Department of

OCEANOGRAPHY

SCHOOL OF SCIENCE

OREGON STATE UNIVERSITY

HYDROGRAPHIC DATA FROM OREGON WATERS 1971

by

Bruce Wyatt, Richard Tomlinson, William Gilbert, Louis Gordon and Dennis Barstow

Office of Naval Research
Contract N00014-67-A-0369-0007
Project NR 083-102
NSF Grant GA 12113

Data Report 53 Reference 72-14

May 1972

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Corvallis, Oregon 97331

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John V. Byrne
Chairman

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INTRODUCTION

Hydrographic Data from Oregon Waters, 1971, is the latest in a series of reports on the water masses along the Oregon coast. Reports for time periods beginning in 1955 are listed on page 9.

DATA COLLECTING AND PROCESSING

Data were collected by Oregon State University personnel aboard the R/V YAQUINA and the R/V CAYUSE. Most of the cruises were concerned with surveying hydrographic conditions along a latitudinal track at 44° 39. 1'N and studying the Columbia River plume.

Most stations are identified by a letter-number code. Numerals having a prefix listed below are the distance offshore in nautical miles. Thus NH-85 is a hydrographic station 85 miles off the coast from Newport, Oregon. All stations that have other letter prefixes were numbered sequentially with the letter prefix designating either a particular station. Cruise tracks are included to facilitate location of stations.

Explanation

Letter	
AH	Off Astoria, Oregon, along 46° 14. 0'N
BH	Off Brookings, Oregon, along 42° 00. 0'N
CH	Off Coos Bay, Oregon, along 43° 20. 6'N
DB	Off Depoe Bay, Oregon, on a line between 44° 48. 8'N 124° 05. 4'W and 45° 00. 0'N, 124° 34. 6'W
FH	Off Florence, Oregon, along 43° 59. 0'N
NH	Off Newport, Oregon, along 44° 39. 1'N
UH	Off Umpqua River, Oregon, along 43° 39. 0'N
YH	Off Yachats, Oregon, along 44° 20. 0'N

Depth

Depth determinations were made by the "depth-difference" method described in the U.S. Hydrographic Office Publication 607 (1968).

Depth estimates have an approximate accuracy of 1.5 percent at 750 m depth. Depths of the second cast are followed by an asterisk if two or more casts were used as a single station. Depths followed by a letter C indicate a CTD cast. Our conductivity-temperature-depth probe was manufactured by Geodyne. Depths followed by a letter A indicate a value of 2.50 was assumed for total alkalinity for the purpose of calculating the pH temperature correction.

Temperature

Thermometers were calibrated at Oregon State University using the Oceanography Department's calibration tank. A quartz thermometer system Hewlett-Packard Model 2801A was the standard. It was calibrated against a platinum resistance thermometer and a Mueller bridge calibrated by the U.S. Bureau of Standards. Intercalibration tests were also made with the University of Washington Department of Oceanography. Comparisons of results from five thermometers from the University of Washington indicated corrections obtained from our tests averaged within 0.007° C of corrections obtained from University of Washington calibrations for the previous year. This was only a preliminary attempt at intercalibration and a more conclusive test is planned for the Oceanographic Instrumentation Center to standardize our procedures and to reduce further the errors in temperature measurements resulting from procedure, time between calibrations, and the accuracy of the two standard thermometers.

The accuracy of reduced temperature readings is believed to be ±0.02° C for the reversing thermometers. All sampling bottles were equipped with two reversing thermometers. Those used below 200 m also have an unprotected thermometer for determination of thermometric depth.

Salinity

Salinity was determined with an inductive salinometer, Model 11, manufactured in Australia by Industrial Manufacturing Engineers Pty. Ltd. and with a Hytech salinometer, Model 6220. The method was described by Brown and Hamon (1961). Substandard water was prepared from seawater that had been collected 100 miles off Oregon and stored for three months. Copenhagen water was used as standard seawater.

Precision Comparison of Salinometers

Eleven sets of samples at different concentrations were prepared containing six replications. Each set of replications was considered a

separate experiment. Within these six replications, three samples were analyzed with the Hytech salinometer and three were analyzed with the Australian salinometer. The hypothesis was tested that there was no difference in salinity determinations between the two salinometers. The two-tailed t-test was used (p. 100, Li 1964). For 8 of the 11 sets of samples ranging in concentration from 32‰ to 37‰, the hypothesis was accepted at the 95% confidence interval. For samples at 30‰, the hypothesis was accepted at the 99% confidence level. For sets at 15‰ and 20‰ the hypothesis was rejected at the 99% confidence level.

The standard error (standard deviation/(number of samples)$^{1/2}$), a measure of precision, was less for the Hytech salinometer, i.e., the Hytech was more precise. The average standard error was 0.0026‰ for the Hytech compared to 0.0015‰ for the Australian salinometer.

Accuracy of Inductive Salinometers

To obtain an estimate of accuracy for inductive salinometers in use at Oregon State University Department of Oceanography, the following experiment was conducted. Artificial seawater samples prepared by the National Oceanographic Instrumentation Center (NOIC) were accepted as the primary standard. These samples were assumed to be unbiased and precise to within ±004‰. The samples consisted of six replications of samples from each of four salinity concentrations. The mean difference of salinity determinations for each set of six samples is given below:

NOIC Sample Concentration (‰)	Standard Error in ‰ of OSU Determinations (UNESCO Tables)
31.080	0.0001
34.248	0.0006
36.262	0.0013
39.212	0.0026

The mean standard error is 0.0012‰ which lies within the precision claimed (±0.004‰) for preparation of the standard seawater.

These samples were analyzed with the Australian salinometer, but there is no difference in salinity determinations made between the Australian and the Hytech salinometer (see previous section). It is therefore concluded that both the Hytech and the Australian salinometer have an accuracy within the range of the precision for preparation of the artificial seawater.

Oxygen

Most of the oxygens were run at sea. The modified Winkler method (Strickland and Parsons, 1968) was used.

Oxygen Determination Precision

The precision of oxygen analysis was examined from seven sets of observations, each of a different concentration. Each set of observations contained seven replications. The standard error and the standard deviation were calculated for each of the sets (p. 44, Li 1964). The standard error in most cases is within the precision given by Strickland and Parsons (p. 23-26, 1968) of $0.0336/n^{1/2}$ ml/L in the range of from 0.06 to 89.6 ml/L.

Comparison of Standard Errors

for Oxygen Analysis

Number of Observations	Mean	Standard Error	Strickland and Parsons Precision
5	4.22	± 0.005 ml/L	± .015 ml/L
5	3.60	± 0.014	± .015
7	2.47	± 0.017	± .013
5	2.50	± 0.000	± .015
7	2.53	± 0.005	± .013
7	1.33	± 0.017	± .013
7	0.56	± 0.014	± .013

Automated Nutrient Analysis

The nutrient analysis procedures for cruises Y7103-E and Y7106-B have been described in detail by Atlas et al. (1971) and by Wyatt et al. (1971).

TABLE 1. Summary of Precision Estimates for Automated Nutrient Analyses

Cruise	Y7103-E			Y7106-B		
	mean	2s	no. samples	mean or range	2s	no. samples
PO_4	0.84	0.03	5	0.63[c]	0.04	6[b]
	1.74	0.06	5	2.74[c]	0.16	6[b]
(μM)	1.80	0.04	5	3.12	0.03	10[b]
	2.75	0.02	5	5.28[c]	0.04	5
	2.99	0.02	9	0.28-3.50[a]	0.07	18 pairs
	3.03	0.03	5			
	3.26	0.06	10			
NO_3+NO_2	7.02	0.29	5	6.14[c]	0.21	6[b]
	8.40	0.36	5	29.25[c]	0.43	6[b]
(μM)	20.63	0.60	5	42.23	0.89	10[b]
	34.33	0.43	5	44.44[c]	0.13	6
	36.85	1.50	10	0.10-45.77[a]	0.45	17 pairs
	38.07	0.60	10			
	37.94	0.45	5			
SiO_4	8.53	0.57	5	19.80[c]	0.50	6[b]
	13.17	0.22	5	86.68	2.24	10[b]
(μM)	25.53	0.47	5	93.91[c]	1.09	6[b]
	60.58	0.89	5	192.55[c]	1.86	6
	69.54	0.99	10	2.78-141.52[a]	0.87	16 pairs
	72.46	2.13	5			
	79.94	1.23	10			

[a] Precision estimates calculated from a series of duplicate samples using the relationship, $s = (\Sigma(X_1-X_2)^2/2n)1/2$, where X_1 and X_2 are the values of duplicate samples, and n is the number of duplicate sets.

[b] Replicate samples run interspersed among other samples, rather than consecutively.

[c] Standard

Various sizes of sampling tubes were used with the Auto Analyzer® to give ranges of 0-12μM, 0-50μM and 0-200μM for silicate, and 0-40μM and 0-60μM for nitrate and nitrite. Sample to sample precisions were estimated for sets of replicate samples. These results are listed in Table 1.

Problems were encountered with the nitrate reduction columns used on cruise Y7103-E. The pertinent nitrate + nitrite data was corrected for column drift assuming linear changes between standards run at the beginning and end of lots of 18 samples each. Table 2 lists the samples corrected in this manner.

pH

pH values were determined according to the method described by Wyatt et al. (1970). Precision estimated for cruise Y7106-B was ±0.01 pH units at 2σ for 5 samples.

Alkalinity

The procedure used for the alkalinity determinations has been outlined by Wyatt et al. (1971). For both Y7103-E and Y7106-B, 1.5 ml of 0.01N hydrochloric acid was used, rather than 15 ml of 0.01N acid, as specified by the technique of Anderson and Robinson (1946). The value of the activity coefficient of hydrogen ions determined by Culberson et al. (1970) was used for the reduction of the present data.

TABLE 2. Y7103-E Nitrate Nitrite Samples Corrected for Effect of Reduction Column Drift.

Station	Sample Depth
NH 5	All depths
10	"
15	"
25	"
35	0-100m
45	2m, 20m, 50m, 150m, 600m
65	All depths
85	"
DB 5	"

Computations

All hydrographic data were processed with the aid of the CDC 3300 computer. Auxiliary temperature corrections and index corrections obtained from laboratory thermometer calibrations were applied with a computer program. Property values at standard depths are determined by three-point parabolic interpolation. (Two observed property points above the standard depth and one point below were interpolated parabolically: the result was averaged with similar interpolation by using one observed point above the standard depth and two points below.) The specific volume anomaly, dynamic height, and sigma-t were computed by using interpolated properties. The same computer program has been used in all Oregon State University hydrographic data reports.

Weather codes and cloud cover codes were adopted from the National Oceanographic Data Center Manual "Processing Physical and Chemical Data from Oceanographic Stations," Publication M-2 (Rev. Aug. 1964).

ACKNOWLEDGMENTS

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TABLE 3: Cruise Dates, Stations, Observations, and Personnel for Hydrographic Cruises for 1971

CRUISE	DATE	STATIONS	OBSERVATIONS	PERSONNEL
Y7101-B	7-16 Jan.	Off Newport and Yachats, Ore. (5 to 205 miles) Off Florence, Ore. (35 to 105 miles)	Temperature, Salinity, O_2 BT, Secchi Disc, Drift Bottles, CTD	7-16 Jan. Bruce Wyatt, Dennis Barstow, Lyndal Brixius, John Berman, Burlie Brunson, Thomas Caufield From Univ. of Washington: Gary Robinson, Stephan Lord, Walter Braithwaite From Clatsop Community College: Robert Stein, Mark Shelton, Frank Hoffman, Perry Shoemake, James Coughlin, Robert Truitt
	20-29 Jan.	Off Florence, Ore. (10 to 125 miles) Off Umpqua River, Ore. (35 to 125 miles). Off Coos Bay, Ore. (25 to 85 miles) Off Brookings, Ore. (45 to 100 miles)	Same as Leg I plus drogue and cloud nuclei and aitken nuclei samples	20-29 Jan. Bruce Wyatt, William Elliott, James Washburn, Lyndal Brixius, John Berman, Gary Rossknecht, Dan Frye, Jack Shreffler From Univ. of Washington: Charles Cox, David Boroughs, Pat McQuire, From Clatsop Community College: Richard Kerstner, Curt McNeely, Richard Washburn, Danny Granberd.
Y7101-C	30-31 Jan.	Off Newport, Ore. (5 to 45 miles)	Temperature, Salinity O_2, Secchi Disc, DTD, BT	Charles Miller, Chris Marlowe, Earl Krygier, Richard Miller, Hossein Emadi, Jose Canon, Enrique Carrillo, Leif Viker, Kirk Jonasson, Craig McDougall, Elizabeth Nuckolls, Joyce Gnagy, Bruce Frey, Bill Fitzgerald, Jerry Exon, Randy Yamada, Charles Moreland
C7101-G	25-29 Jan.	Off Depoe Bay, Ore. 9 miles	Temperature, Salinity, Secchi Disc, BT	June Pattullo, Dr. and Mrs. Wayne Burt, Elizabeth Strong, Mark Halsey, Henry Pittock, Glenna Pittock, Robert Bourke
C7102-C	8-9 Feb.	Off Depoe Bay, Ore. 9 miles	Temperature, Salinity, Secchi Disc, BT	Dennis Barstow, Mark Halsey, Dean Frietag
Y7103-B	6-8 March	Off Newport, Ore. (3 to 105 miles)	Temperature, Salinity CTD, BT, Drift Bottles	Lyndal Brixius, Ron Jones, John Berman, Dave Army, Dave Enfield From Univ. of Washington: Linda Mangum, Scott Cooper, David Feinberg, Douglas Hojem From Clatsop Community College: Ron Peek, Bruce Prator, Sharon Gramberg, Janie Watchorn
C7103-C	8-9 March	Off Depoe Bay, Ore., 9 miles	Temperature, Salinity, BT	Mark Halsey, Henry Pittock, John McKitterick
Y7103-C	8-14 March	Off Newport, Ore. (15 and 25 miles) Off Yachats, Florence, and Umpqua River, Ore., (5 to 105 miles)	Temperature, Salinity, CTD, BT, Drift Bottles	Lyndal Brixius, Ron Jones, John Berman, Dennis Barstow From Univ. of Washington: Karen Hillary, Nancy Cunningham, Mal Walden, Gary Andrilences.
Y7103-E	28-31 March	Off Newport, Ore. (5 to 105 miles) Off Depoe Bay, Ore. (5 to 15 miles)	Temperature, Salinity, O_2, BT, CTD, Secchi Disc, PO_4, NO_3, SiO_4, pH, Alkalinity, C-N analysis, PCO_2 Σ CO_2	Louis Gordon, Richard Tomlinson, Saul Alvarez-Borrego, John Berman, Lyndal Brixius, John Callaway, David Gosser, James Haefner, Steven Hager, Hewitt Jeter, Ron Jones, Kent Kantz, Harold O'Connors, Ed Siefert, Donald Wauchope From Scripps Institute of Oceanography: Arnold Mantyla
Y7104-B	15-21 April	Off Newport, Ore. (3 to 165 miles) Off Yachats, Ore. (25 to 145 miles) Off Florence, Ore. (35 to 105 miles) Off Umpqua River, Ore. (65 to 105 miles)	Temperature, Salinity, CTD, BT	Dennis Barstow, Lyndal Brixius, Robert Kapaun, Buck Williams From Physics Dept., OSU: David Army, Ted Van Auken From Univ. of Washington: Paul Kleckner, Rosie Evans, Carol Marsh, Cyreis Schmitt From Clatsop Community College: David Stemwedel, Vincent Zegowitz, Jon Garland, Scott Wills, George Fowler

TABLE 3 (Continued)

CRUISE	DATE	STATIONS	OBSERVATIONS	PERSONNEL
Y7106-B	12-16 June	Off Newport, Ore. (1 to 105 miles) Off Depoe Bay, Ore. (1 to 15 miles)	Temperature, Salinity, O_2, BT, CTD, Secchi Disc, PO_4, NO_3, SiO_4, pH, Alkalinity, C-N Analysis, PCO_2, ΣCO_2, Analysis of atmospheric condensation nuclei and air salt particles	William Elliott, Lou Gordon, Richard Tomlinson, Dennis Barstow, Lyndal Brixius, Ron Jones, Robert Kapaun, Ed Seifert, Saul Alvarez-Borrego, Eliot Atlas, James Haefner, Hewitt Jeter, Kent Kantz, Harold O'Connors, Gary Rossknecht, David Standley, John Callaway From Scripps Institute of Oceanography: Kenneth LeVeille
C7106-E	18 June	Off Newport, Ore. (125 and 145 miles)	Temperature, Salinity, Secchi Disk, BT	Peter Becker, Mark Halsey, Douglas Coughenhower, Charles Samuelson Carl First, Bruce Stoffer, John Pequegnat
Y7107-C	29 July - 2 August	Off Depoe Bay, Ore. (10 to 40 miles)	Temperature, Salinity, BT, Drogue, CTD, Seechi Disk	Lyndal Brixius, Mark Halsey, Ron Jones, Robert Kapaun, Taylor Poynter Lillie Muller, Dean Frietag, Kay Sokell, Charles Woods From Univ. of Oregon: Steve Crane From Univ. of Washington: Linda Blair, Doris Overland, Rikel Getty
C7107-E	17-18 July	Off Depoe Bay, Ore. 9 miles	Temperature, Salinity, BT	Mark Halsey, Henry Pittock, Burlie Brunson
C7108-H	23-28 Aug.	Off Newport and Astoria, Ore. (5 to 165 miles)	Temperature, Salinity, BT, CTD	John Butler, Lyndal Brixius, Robert Kapaun, Barry Laing From Univ. of Washington: Greg Starypan
C7109-D	10-14 Sept.	Off Coos Bay, Ore. (10 to 80 miles)	Temperature, Salinity, BT	Dennis Barstow, Lyndal Brixius, David Gosser, Dan Tracy From Dept. of Fisheries & Wildlife; OSU: Clarence McNeir From Dept. of Education, OSU: Walter Mudge From Univ. of Washington: David Kingma, James VanKooten
C7110-A	2-5 Oct.	Off Newport, Ore. (3 to 155 miles)	Temperature, Salinity BT, Secchi Disk, Drift Bottles	Dennis Barstow, Lyndal Brixius, Richard Tomlinson, Ed Siefert, John Callaway From Clatsop Community College: Thomas Orr, John Brumbach, Kevin Miller, J. Robinson
C7112-C	7-8 Dec.	Off Newport, Ore. (5 to 45 miles)	Temperature, Salinity, CTD	Lyndal Brixius, James Washburn, Peter Rothlisberg, Victor Sierpina, Observer: Terry Tidwell

TABLE 4. Hydrographic Data.

NH 5 44 39.1 N 124 10.5 W DATE 08 JAN 71 0140 GCT WIRE
DRY 47.4 WET 47.4 CRUISE Y7101B WIND DIRECTION 30 VEL 02 KTS BAR 30
SWELL DIRECTION 32 H 03 T 07 CLOUD AMT 9 WEATHER 45

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)	INTERPOLATED Z (m)	INTERPOLATED T (°C)	INTERPOLATED S (‰)	COMPUTED σ_t	COMPUTED δ (x10^5)	COMPUTED ΔD (dyn.m)
0C	8.72	31.41		0	8.72	31.42	24.38	356.0	0
5C	9.11	31.60		10	10.08	32.06	24.68	328.3	.034
11C	10.27	32.16		20	10.25	32.39	24.90	307.3	.066
23C	10.25	32.39		30	10.08	32.52	25.03	294.7	.096
28C	10.14	32.48							
35C	9.93	32.62							
37C	9.88	32.64							

NH 5 44 39.1 N 124 10.5 W DATE 08 JAN 71 0140 GCT WIRE
DRY 47.4 WET 47.4 CRUISE Y7101B WIND DIRECTION 30 VEL 02 KTS BAR 30
SWELL DIRECTION 32 H 03 T 07 CLOUD AMT 9 WEATHER 45

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)	INTERPOLATED Z (m)	INTERPOLATED T (°C)	INTERPOLATED S (‰)	COMPUTED σ_t	COMPUTED δ (x10^5)	COMPUTED ΔD (dyn.m)
0C	8.70	31.33		0	8.70	31.33	24.33	361.7	0
5C	8.78	31.40		10	9.25	31.75	24.56	339.1	.035
12C	9.49	31.90		20	10.25	32.16	24.72	324.0	.068
19C	10.25	32.13							
26C	10.25	32.32							
29C	10.27	32.35							

NH 5 44 39.1 N 124 10.5 W DATE 08 JAN 71 0140 GCT WIRE
DRY 47.4 WET 47.4 CRUISE Y7101B WIND DIRECTION 30 VEL 02 KTS BAR 30
SWELL DIRECTION 32 H 03 T 07 CLOUD AMT 9 WEATHER 45

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)
0C	8.71	31.31	
11C	9.28	31.63	
21C	10.01	32.22	

NH 15 44 38.9 N 124 24.6 W DATE 08 JAN 71 0503 GCT WIRE
DRY 48.7 WET 48.7 CRUISE Y7101B WIND DIRECTION 24 VEL 08 KTS BAR 29
SWELL DIRECTION 30 H 03 T 06 CLOUD AMT 9 WEATHER 45

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)	INTERPOLATED Z (m)	INTERPOLATED T (°C)	INTERPOLATED S (‰)	COMPUTED σ_t	COMPUTED δ (x10^5)	COMPUTED ΔD (dyn.m)
0C	9.57	32.07		0	9.57	32.07	24.77	319.6	0
1C	9.57	32.07		10	9.58	32.11	24.80	316.9	.032
10C	9.58	32.11		20	9.78	32.25	24.87	309.8	.063
20C	9.78	32.25		30	10.01	32.50	25.02	295.8	.093
30C	10.01	32.49		50	9.85	32.53	25.08	290.7	.152
53C	9.85	32.53							

NH 25 44 39.1 N 124 38.1 W DATE 08 JAN 71 0635 GCT WIRE
DRY 48.3 WET 48.3 CRUISE Y7101B WIND DIRECTION 27 VEL 13 KTS BAR 28
SWELL DIRECTION 30 H 03 T 09 CLOUD AMT 9 WEATHER 45

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)	INTERPOLATED Z (m)	INTERPOLATED T (°C)	INTERPOLATED S (‰)	COMPUTED σ_t	COMPUTED δ (x10^5)	COMPUTED ΔD (dyn.m)
0C	9.90	32.35		0	9.90	32.35	24.93	303.9	0
10C	9.90	32.35		10	9.90	32.35	24.93	304.1	.030
21C	9.85	32.36		20	9.85	32.36	24.94	303.3	.061
31C	9.91	32.44		30	9.91	32.43	24.99	298.8	.091
50C	9.44	32.46		50	9.44	32.46	25.09	289.5	.150
60C	9.40	32.57		75	9.58	33.16	25.61	240.8	.216
76C	8.96	33.07		100	7.95	33.52	26.15	189.7	.259
100C	7.95	33.52		150	7.47	33.81	26.44	162.6	.347
152C	7.45	33.81		200	6.79	33.89	26.60	148.2	.424
202C	6.76	33.89		250	6.09	33.88	26.69	140.3	.496
250C	6.09	33.88		300	5.74	33.93	26.77	133.3	.565
301C	5.74	33.93		400	5.29	34.02	26.89	122.1	.692
401C	5.29	34.02		500	4.96	34.13	27.02	111.0	.809
502C	4.95	34.13		600	4.65	34.21	27.11	102.6	.916
606C	4.63	34.21		700	4.32	34.28	27.21	94.2	1.014
701C	4.32	34.28		800	4.07	34.31	27.26	89.9	1.106
802C	4.07	34.31							

NH 65 44 39.1 N 125 37.2 W DATE 08 JAN 71 1628 GCT WIRE 04
DRY WET CRUISE Y7101B WIND DIRECTION 27 VEL 16 KTS BAR 24
SWELL DIRECTION 32 H 04 T 08 CLOUD AMT 9 WEATHER

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)
0	9.11	32.546	6.50
500	4.98	34.172	0.73
600	4.65	34.250	0.44
700	4.36	34.306	0.44
800	4.10	34.350	0.40
900	3.72	34.376	0.38
1000	3.49	34.416	0.40

NH 85 44 39.4 N 126 03.0 W DATE 08 JAN 71 2030 GCT WIRE
DRY 50.0 WET 49.3 CRUISE Y7101B WIND DIRECTION 27 VEL 22 KTS BAR 21
SWELL DIRECTION 29 H 04 T 06 CLOUD 6 AMT 8 WEATHER 02

OBSERVED D (m)	OBSERVED T (°C)	OBSERVED S (‰)	OBSERVED O_2 (ml/l)	INTERPOLATED Z (m)	INTERPOLATED T (°C)	INTERPOLATED S (‰)	COMPUTED σ_t	COMPUTED δ (x10^5)	COMPUTED ΔD (dyn.m)
0C	9.04	32.52		0	9.04	32.52	25.20	278.2	0
1C	9.04	32.52		10	9.04	32.52	25.20	278.6	.028
14C	9.04	32.52		20	9.04	32.52	25.20	278.8	.056
21C	9.04	32.52		30	9.04	32.52	25.20	279.0	.084
31C	9.04	32.52		50	9.02	32.54	25.22	277.5	.139
53C	9.00	32.57		75	8.30	33.36	25.97	206.2	.200
70C	8.68	33.11		100	7.87	33.60	26.22	183.1	.248
76C	8.23	33.41		150	7.42	33.83	26.47	160.0	.334
87C	8.00	33.46		200	6.79	33.89	26.60	148.2	.411
101C	7.86	33.61		250	6.17	33.93	26.71	138.0	.483
150C	7.41	33.83		300	5.97	33.98	26.78	132.2	.550
202C	6.76	33.89							
252C	6.15	33.93							
300C	5.97	33.98							

70C	9.76	33.03	100	8.83	33.36	25.89	214.4	.273
74C	9.60	33.14	150	8.08	33.75	26.31	175.3	.370
90C	9.33	33.30	200	6.74	33.97	26.67	141.3	.449
101C	8.78	33.37						
125C	8.54	33.58						
150C	8.08	33.75						
176C	7.06	33.93						
200C	6.74	33.97						
229C	6.49	34.01						

NH 35 44 39.1 N 124 52.1 W DATE 08 JAN 71 0817 GCT WIRE
DRY 48.0 WET 47.5 CRUISE Y7101B WIND DIRECTION 27 VEL 12 KTS BAR 27
SWELL DIRECTION 30 H 03 T 07 CLOUD 6 AMT 8 WEATHER 02

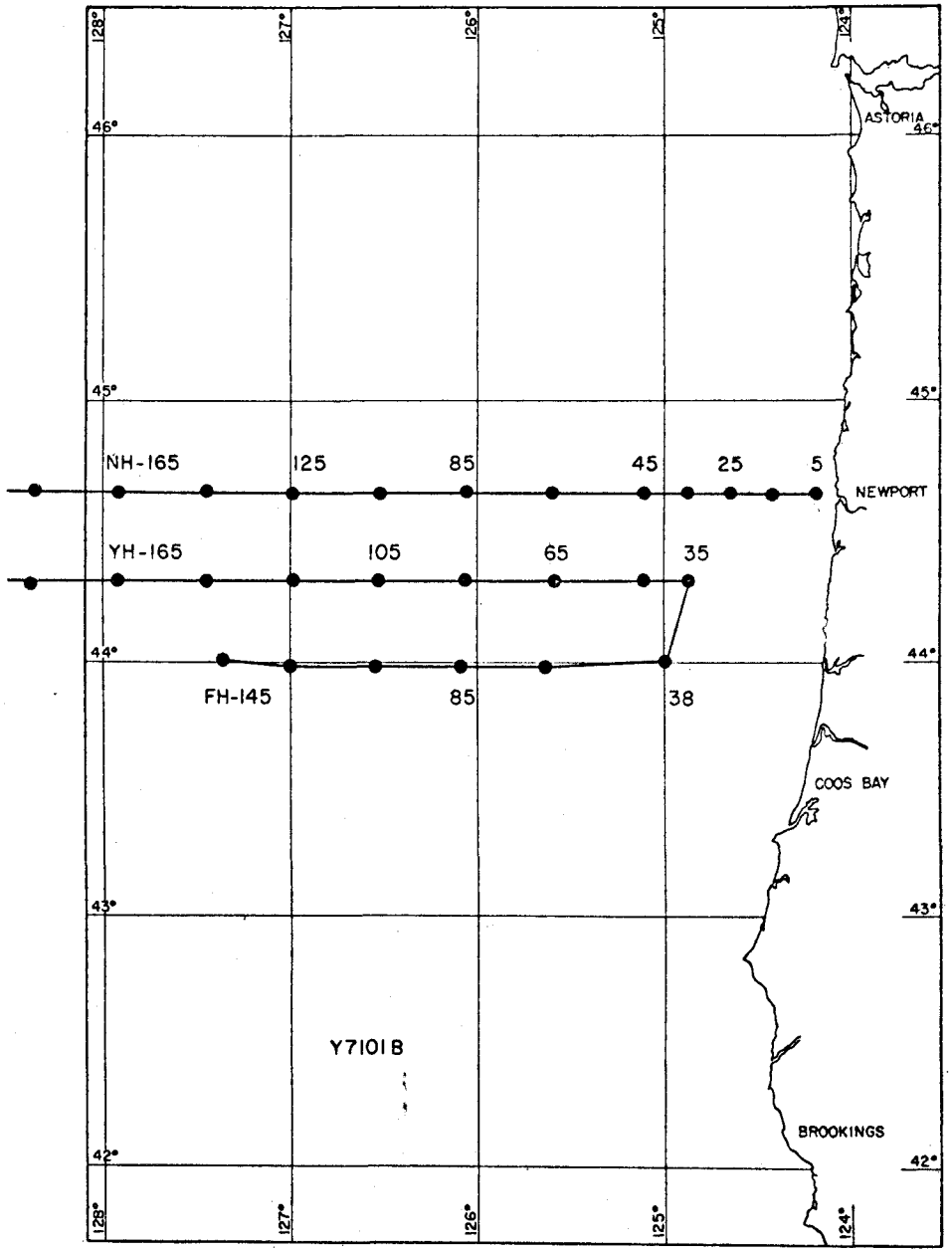
0C	9.94	32.42	0	9.94	32.42	24.98	299.3	0
1C	9.94	32.42	10	9.95	32.41	24.97	300.6	.030
13C	9.95	32.41	20	9.96	32.43	24.98	299.7	.060
23C	9.97	32.44	30	9.98	32.45	24.99	298.5	.090
39C	9.99	32.46	50	9.99	32.47	25.01	297.8	.150
52C	9.99	32.48	75	9.72	32.92	25.40	260.3	.219
69C	9.77	32.89	100	9.13	33.23	25.74	229.1	.280
79C	9.66	32.94	150	8.48	33.60	26.13	192.4	.386
88C	9.36	33.07	200	7.05	33.85	26.53	154.6	.473
101C	9.12	33.24	250	6.69	33.90	26.62	146.8	.548
154C	8.42	33.62						
206C	6.89	33.87						
250C	6.69	33.90						

NH 45 44 39.1 N 125 06.0 W DATE 08 JAN 71 1015 GCT WIRE
DRY 48.1 WET 46.8 CRUISE Y7101B WIND DIRECTION 27 VEL 14 KTS BAR 27
SWELL DIRECTION 30 H 03 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.94	32.39	0	9.94	32.39	24.96	301.6	0
1C	9.94	32.39	10	9.93	32.39	24.95	302.0	.030
11C	9.93	32.39	20	9.81	32.39	24.98	300.1	.060
22C	9.78	32.39	30	9.79	32.41	24.99	298.8	.090
31C	9.79	32.41	50	9.58	32.54	25.13	286.2	.149
52C	9.55	32.55	75	9.11	33.00	25.57	244.9	.215
66C	9.47	32.55	100	8.49	33.47	26.02	201.8	.271
75C	9.11	33.00	150	7.59	33.82	26.44	163.2	.362
89C	8.63	33.36	200	6.97	33.86	26.56	152.5	.441
105C	8.45	33.49	250	6.51	33.88	26.63	146.0	.516
150C	7.59	33.82	300	6.40	33.93	26.69	141.0	.587
200C	6.97	33.86	400	5.57	33.97	26.82	128.9	.722
254C	6.48	33.88	500	4.94	34.11	27.00	112.5	.843
300C	6.39	33.93						
400C	5.57	33.97						
502C	4.93	34.11						

NH 65 44 39.1 N 125 35.0 W DATE 08 JAN 7 1403 GCT WIRE
DRY 48.6 WET 48.5 CRUISE Y7101B WIND DIRECTION 27 VEL 18 KTS BAR 25
SWELL DIRECTION 30 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	9.09	32.52	0	9.09	32.52	25.19	278.9	0
10C	9.09	32.51	10	9.09	32.51	25.19	279.8	.028
21C	9.09	32.53	20	9.09	32.53	25.20	278.9	.056
28C	9.09	32.52	30	9.09	32.52	25.19	279.6	.084
52C	9.08	32.53	50	9.08	32.53	25.20	279.3	.140
60C	9.08	32.53	75	8.98	33.03	25.61	241.1	.205



OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
NH 105 44 39.0 N 126 30.9 W DATE 09 JAN 71 0115 GCT WIRE									
DRY 49.4 WET 49.0 CRUISE Y7101B WIND DIRECTION 27 VEL 25 KTS BAR 19									
SWELL DIRECTION 29 H 04 T 08 CLOUD 7 AMT 8 WEATHER 02									
0C	9.01	32.55		0	9.01	32.55	25.23	275.5	0
1C	9.01	32.55		10	9.01	32.55	25.23	275.7	.028
10C	9.01	32.55		20	9.01	32.54	25.22	276.6	.055
20C	9.01	32.54		30	9.01	32.54	25.22	276.7	.083
30C	9.01	32.54		50	9.01	32.56	25.24	275.6	.138
50C	9.01	32.56		75	9.02	32.61	25.27	272.5	.207
62C	9.01	32.56		100	8.01	33.50	26.12	192.6	.265
78C	9.02	32.68		150	7.54	33.83	26.45	161.8	.353
89C	8.41	33.37		200	6.94	33.90	26.59	149.6	.431
102C	7.95	33.52		250	6.44	33.94	26.68	140.8	.504
152C	7.52	33.84		300	6.08	33.97	26.76	134.1	.572
201C	6.93	33.90		400	5.40	34.02	26.88	123.4	.701
254C	6.41	33.94		500	4.96	34.10	26.99	113.4	.819
300C	6.08	33.97		600	4.56	34.17	27.09	104.4	.928
401C	5.39	34.02		700	4.22	34.26	27.21	94.1	1.027
503C	4.95	34.10		800	3.85	34.29	27.27	88.4	1.116
603C	4.55	34.17		1000	3.46	34.40	27.39	77.8	1.285
700C	4.22	34.26							
800C	3.85	34.29							
1002C	3.46	34.40							
NH 105 44 39.0 N 126 30.9 W DATE 09 JAN 71 0124 GCT WIRE 13									
DRY 49.4 WET 49.0 CRUISE Y7101B WIND DIRECTION 27 VEL 25 KTS BAR 19									
SWELL DIRECTION 29 H 04 T 08 CLOUD 7 AMT 8 WEATHER 02									
0	9.02	32.552	6.45	0	9.02	32.56	25.23	275.5	0
20	9.03		6.38	10	9.05	32.54	25.21	277.2	.028
30	9.01	32.549	6.54	20	9.03	32.54	25.22	276.9	.055
50	9.02	32.557	6.54	30	9.01	32.55	25.23	276.1	.083
74	9.06	32.608	5.67	50	9.02	32.56	25.23	276.0	.138
99	8.05	33.549	3.87	75	9.02	32.64	25.30	270.2	.206
124	7.79	33.725	3.52	100	8.03	33.56	26.17	188.0	.264
149	7.55	33.878	3.39	150	7.53	33.88	26.49	158.3	.350
175	7.18	33.899	3.07	200	7.08	33.94	26.60	148.6	.427
200	7.08	33.932	2.82	250	6.62	33.98	26.69	140.3	.499
299	6.10	34.004	1.86	300	6.09	34.00	26.78	132.0	.567
399	5.45	34.056	1.29	400	5.45	34.06	26.90	121.2	.694
499	5.07	34.137	0.89	500	5.07	34.14	27.01	111.6	.810
599	4.68	34.182	0.65	600	4.68	34.18	27.09	104.6	.918
699	4.38	34.257	0.48	700	4.38	34.26	27.18	96.5	1.019
798	4.01	34.235	0.40	800	4.00	34.24	27.21	94.4	1.114
898	3.76	34.372	0.40	1000	3.49	34.40	27.39	78.1	1.287
999	3.49	34.397	0.39	1200	3.07	34.47	27.49	69.1	1.434
1197	3.08	34.473	0.65						
NH 125 44 39.1 N 126 58.9 W DATE 09 JAN 71 0645 GCT WIRE									
DRY 50.0 WET 49.5 CRUISE Y7101B WIND DIRECTION 25 VEL 24 KTS BAR 16									
SWELL DIRECTION 29 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02									
0C	9.18	32.47		0	9.18	32.47	25.14	284.0	0

OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
0	9.25	32.457	6.54	0	9.25	32.46	25.12	286.0	0
20	9.28	32.460	6.54	10	9.32	32.46	25.11	287.4	.029
30	9.24	32.462	6.54	20	9.28	32.46	25.12	286.6	.057
50	9.22	32.465	6.54	30	9.24	32.47	25.13	286.0	.086
75	9.13	32.480	6.34	50	9.22	32.47	25.13	285.8	.143
100	7.98	33.290	6.21	75	9.13	32.48	25.16	283.7	.214
150	7.79	33.787	3.36	100	7.98	33.29	25.96	207.2	.276
201	7.13		2.82	150	7.80	33.79	26.38	168.4	.370
251	6.62	33.954	2.44	200	7.14	33.95	26.60	148.5	.449
300	6.11	33.976	2.02	250	6.63	33.95	26.67	142.1	.521
401	5.34	34.029	1.35	300	6.11	33.98	26.76	134.0	.590
501	4.95	34.128	0.81	400	5.35	34.03	26.89	122.1	.718
602	4.62	34.213	0.65	500	4.95	34.13	27.02	111.1	.835
802	4.06	34.321	0.56	600	4.63	34.21	27.12	101.9	.941
1003	3.49	34.405	0.40	700	4.34	34.27	27.20	94.9	1.040
1204	3.00	34.465	0.56	800	4.07	34.32	27.27	89.0	1.132
				1000	3.50	34.40	27.39	77.8	1.298
				1200	3.01	34.46	27.48	69.1	1.445
NH 185 44 39.6 N 128 22.1 W DATE 10 JAN 71 2225 GCT WIRE									
DRY 42.5 WET 41.4 CRUISE Y7101B WIND DIRECTION 29 VEL 25 KTS BAR 05									
SWELL DIRECTION 28 H 08 T 06 CLOUD 8 AMT 7 WEATHER 18									
0C	9.09	32.52		0	9.09	32.52	25.19	278.9	0
2C	9.09	32.52		10	9.09	32.53	25.20	279.0	.028
17C	9.09	32.53		20	9.09	32.53	25.20	278.5	.056
20C	9.09	32.53		30	9.09	32.53	25.20	279.0	.084
41C	9.09	32.53		50	9.09	32.53	25.20	279.0	.139
50C	9.09	32.53		75	9.04	32.57	25.24	276.1	.209
66C	9.05	32.56		100	8.06	33.20	25.88	215.2	.270
77C	9.02	32.57		150	7.31	33.78	26.44	163.0	.365
88C	8.66	32.90		200	6.54	33.88	26.63	145.2	.442
104C	7.86	33.29		250	5.97	33.88	26.70	139.0	.513
155C	7.25	33.79							
200C	6.53	33.88							
252C	5.95	33.88							
NH 205 44 39.0 N 128 50.0 W DATE 11 JAN 71 0247 GCT WIRE									
DRY 40.5 WET 37.2 CRUISE Y7101B WIND DIRECTION 29 VEL 20 KTS BAR 07									
SWELL DIRECTION 30 H 08 T 07 CLOUD 6 AMT 5 WEATHER 01									
0C	9.08	32.55		0	9.08	32.55	25.22	276.5	0
1C	9.08	32.55		10	9.08	32.55	25.22	277.0	.028
13C	9.08	32.55		20	9.08	32.55	25.22	277.2	.055
22C	9.08	32.55		30	9.08	32.54	25.21	278.0	.083
31C	9.08	32.54		50	9.08	32.54	25.21	278.4	.139
51C	9.08	32.54		75	8.31	33.13	25.78	224.2	.202
64C	9.09	32.55		100	7.61	33.57	26.24	181.4	.252
75C	8.31	33.12		150	7.33	33.84	26.49	158.2	.337
87C	7.95	33.40		200	6.69	33.90	26.62	146.1	.413
103C	7.54	33.60		250	6.05	33.91	26.71	137.9	.484
155C	7.31	33.85		300	5.64	33.97	26.81	129.8	.551
202C	6.66	33.90							
256C	5.98	33.91							
301C	5.63	33.97							

1C	9.18	32.47		10	9.18	32.47	25.14	284.4	.028
12C	9.18	32.47		20	9.18	32.47	25.14	284.3	.057
20C	9.18	32.47		30	9.18	32.46	25.13	285.4	.085
32C	9.18	32.46		50	9.18	32.47	25.14	285.3	.142
51C	9.17	32.47		75	8.24	32.70	25.46	254.8	.210
62C	8.84	32.54		100	7.57	33.04	25.83	220.1	.269
76C	8.19	32.71		150	7.63	33.78	26.40	167.1	.366
87C	7.90	32.82		200	7.16	33.88	26.55	153.4	.446
100C	7.57	33.04		250	6.77	33.92	26.63	146.4	.521
151C	7.64	33.79		300	6.28	33.95	26.71	138.5	.592
200C	7.15	33.88							
251C	6.76	33.92							
301C	6.27	33.95							

NH 145 44 39.2 N 127 26.7 W DATE 09 JAN 71 1205 GCT WIRE 09
DRY 52.4 WET 49.6 CRUISE Y71018 WIND DIRECTION 27 VEL 24 KTS BAR 14
SWELL DIRECTION 29 H 05 T 08 CLOUD 6 AMT 8 WEATHER 02

0	9.22		6.54	0	9.22	32.47	25.13	284.6	0
20	9.24	32.463	6.54	10	9.24	32.47	25.13	285.3	.028
30	9.22	32.458	6.54	20	9.24	32.47	25.13	285.7	.057
49	9.24	32.465	6.46	30	9.22	32.46	25.13	286.0	.086
74	9.04	32.558	6.46	50	9.23	32.47	25.13	286.0	.143
99	7.78	33.067	5.21	75	8.99	32.58	25.25	274.8	.213
123	7.55	33.418	4.55	100	7.76	33.08	25.83	219.8	.275
148	7.73	33.778	3.63	150	7.72	33.79	26.39	167.5	.372
174	7.53	33.872	2.99	200	7.26	33.92	26.56	152.5	.451
198	7.28	33.914	2.79	250	6.69	33.95	26.66	142.8	.525
297	6.19	33.969	2.13	300	6.17	33.97	26.75	135.4	.595
397	5.52	34.046	1.45	400	5.50	34.05	26.89	122.5	.724
497	4.98	34.110	0.89	500	4.97	34.11	27.00	112.4	.841
595	4.67	34.187	0.81	600	4.65	34.19	27.10	103.8	.949
695	4.36	34.252	0.56	700	4.32	34.25	27.19	96.0	1.049
696*	4.35		0.48	800	3.92	34.31	27.27	88.2	1.141
793*	3.94	34.304	0.40	1000	3.45	34.42	27.41	76.2	1.305
893*	3.69	34.358	0.39	1200	3.10	34.47	27.48	69.9	1.451
993*	3.46	34.414	0.39						
1191*	3.12	34.466	0.65						

NH 165 44 39.1 N 127 54.8 W DATE 09 JAN 71 1828 GCT WIRE
DRY 50.0 WET 49.0 CRUISE Y71018 WIND DIRECTION 26 VEL 24 KTS BAR 12
SWELL DIRECTION 29 H 05 T 08 CLOUD 6 AMT 8 WEATHER 60

0C	9.13	32.42		0	9.13	32.42	25.11	286.9	0
1C	9.13	32.42		10	9.14	32.43	25.11	286.8	.029
11C	9.14	32.43		20	9.14	32.42	25.11	287.4	.057
20C	9.14	32.42		30	9.14	32.43	25.11	287.2	.086
31C	9.14	32.43		50	9.14	32.46	25.13	285.7	.143
50C	9.14	32.45		75	8.84	32.78	25.44	257.1	.211
62C	9.14	32.42		100	7.93	33.29	25.97	206.8	.269
78C	8.70	32.89		150	7.78	33.72	26.32	173.9	.364
87C	8.06	33.11		200	7.05	33.83	26.52	155.7	.447
101C	7.92	33.30		250	6.53	33.90	26.64	144.8	.522
153C	7.77	33.73		300	6.06	33.94	26.73	136.4	.592
200C	7.04	33.83							
251C	6.52	33.90							
302C	6.04	33.94							

NH 165 44 39.1 N 127 54.8 W DATE 09 JAN 71 1918 GCT WIRE 05
DRY 50.0 WET 49.0 CRUISE Y71018 WIND DIRECTION 26 VEL 24 KTS BAR 12
SWELL DIRECTION 29 H 06 T 08 CLOUD 6 AMT 8 WEATHER 60

YH 205 44 19.2 N 128 51.2 W DATE 11 JAN 71 0545 GCT WIRE
DRY 40.0 WET 37.2 CRUISE Y71018 WIND DIRECTION 28 VEL 18 KTS BAR 06
SWELL DIRECTION 29 H 08 T 08 CLOUD 8 AMT 6 WEATHER 02

0C	9.03	32.53		0	9.03	32.53	25.21	277.3	0
1C	9.03	32.53		10	9.04	32.53	25.21	277.6	.028
10C	9.04	32.53		20	9.03	32.53	25.21	277.6	.055
20C	9.03	32.53		30	9.04	32.52	25.20	278.9	.083
31C	9.04	32.52		50	9.04	32.53	25.20	278.8	.139
52C	9.04	32.53		75	8.21	33.21	25.86	216.8	.201
64C	9.01	32.58		100	7.68	33.57	26.23	182.5	.251
75C	8.21	33.20		150	7.05	33.85	26.54	153.5	.335
88C	7.78	33.47		200	6.41	33.91	26.66	141.9	.409
102C	7.67	33.58		250	5.90	33.92	26.74	135.2	.478
150C	7.04	33.85		300	5.39	33.95	26.82	127.5	.544
201C	6.40	33.91		400	5.04	34.06	26.95	116.3	.665
253C	5.87	33.92		500	4.71	34.13	27.05	108.0	.777
302C	5.37	33.95							
402C	5.04	34.06							
500C	4.71	34.13							

YH 185 44 18.0 N 128 23.7 W DATE 11 JAN 71 1400 GCT WIRE
DRY 36.0 WET 34.0 CRUISE Y71018 WIND DIRECTION 30 VEL 30 KTS BAR 05
SWELL DIRECTION 30 H 10 T 07 CLOUD 6 AMT 6 WEATHER 02

0C	8.93	32.55		0	8.93	32.55	25.24	274.3	0
1C	8.93	32.55		10	8.93	32.56	25.24	274.4	.027
18C	8.93	32.56		20	8.93	32.55	25.24	274.8	.055
25C	8.93	32.53		30	8.93	32.53	25.22	276.6	.082
36C	8.93	32.53		50	8.93	32.54	25.23	276.2	.138
51C	8.93	32.55		75	8.09	33.41	26.04	199.8	.197
68C	8.27	33.25		100	7.54	33.72	26.36	169.8	.243
82C	7.93	33.52		150	6.92	33.85	26.55	151.9	.324
94C	7.68	33.66		200	6.61	33.91	26.64	144.4	.398
103C	7.47	33.74		250	6.09	33.93	26.73	136.5	.468
173C	6.81	33.91		300	5.68	33.96	26.80	129.7	.535
203C	6.59	33.91		400	5.03	34.01	26.91	119.7	.659
259C	5.99	33.94		500	4.73	34.15	27.06	106.9	.772
300C	5.67	33.96		600	4.16	34.20	27.16	97.4	.875
401C	5.02	34.01							
502C	4.72	34.15							
600C	4.16	34.20							

YH 165 44 18.9 N 127 55.4 W DATE 11 JAN 71 1945 GCT WIRE
DRY 36.2 WET 33.5 CRUISE Y71018 WIND DIRECTION 30 VEL 18 KTS BAR 05
SWELL DIRECTION 30 H 10 T 08 CLOUD 8 AMT 7 WEATHER 72

0C	8.96	32.54		0	8.96	32.54	25.23	275.5	0
1C	8.96	32.54		10	8.96	32.54	25.23	276.0	.028
15C	8.96	32.54		20	8.97	32.55	25.23	275.6	.055
27C	8.97	32.55		30	8.97	32.54	25.23	276.4	.083
33C	8.96	32.53		50	8.98	32.59	25.26	273.3	.138
53C	8.98	32.60		75	8.69	32.88	25.53	248.3	.203
62C	8.96	32.58		100	7.84	33.57	26.20	184.9	.257
75C	8.69	32.87		150	7.25	33.72	26.40	166.1	.345
87C	8.09	33.32		200	6.71	33.94	26.65	143.1	.422
101C	7.83	33.58		250	6.34	33.95	26.71	138.3	.492
153C	7.22	33.73		300	5.70	33.94	26.78	131.7	.560
214C	6.58	33.99		400	4.97	34.02	26.93	118.3	.685
252C	6.33	33.95		500	4.58	34.11	27.04	108.1	.798
307C	5.60	33.94		600	4.24	34.19	27.14	99.1	.902

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
419C	4.90	34.04							
502C	4.57	34.11							
601C	4.24	34.19							

YH 145 44 19.0 N 127 26.8 W DATE 11 JAN 71 2330 GCT WIRE
DRY 39.9 WET 34.7 CRUISE Y7101B WIND DIRECTION 26 VEL 12 KTS BAR 04
SWELL DIRECTION 30 H 10 T 07 CLOUD 8 AMT 6 WEATHER 02

0C	9.01	32.45	0	9.01	32.46	25.15	282.9	0
9C	9.01	32.50	10	9.01	32.50	25.19	279.7	.028
22C	9.01	32.49	20	9.01	32.49	25.18	280.3	.056
29C	9.01	32.49	30	9.01	32.49	25.18	280.7	.084
51C	9.02	32.49	50	9.02	32.49	25.18	281.2	.140
69C	9.02	32.50	75	9.02	32.53	25.21	278.8	.210
77C	9.02	32.55	100	7.69	33.17	25.91	212.7	.272
85C	8.60	32.77	150	7.60	33.85	26.45	161.5	.365
100C	7.68	33.16	200	6.78	33.92	26.63	145.4	.442
126C	7.92	33.71	250	6.32	33.96	26.72	137.2	.513
151C	7.58	33.85	300	5.92	33.99	26.79	130.9	.580
175C	7.21	33.91	400	5.07	34.06	26.95	116.5	.703
200C	6.77	33.92	500	4.70	34.15	27.07	106.1	.814
250C	6.32	33.96	600	4.46	34.23	27.15	98.6	.917
302C	5.90	33.99	700	4.05	34.28	27.23	91.1	1.012
401C	5.06	34.06	800	3.79	34.36	27.32	83.0	1.099
503C	4.70	34.15	1000	3.49	34.41	27.39	77.3	1.259
601C	4.46	34.23						
703C	4.04	34.28						
803C	3.78	34.36						
900C	3.70	34.39						
1001C	3.49	34.41						

YH 125 44 19.0 N 126 58.8 W DATE 12 JAN 71 0955 GCT WIRE 07
DRY 36.6 WET 31.0 CRUISE Y7101B WIND DIRECTION 29 VEL 11 KTS BAR 03
SWELL DIRECTION 30 H 06 T 07 CLOUD 8 AMT 4 WEATHER 01

0	8.79	32.529	6.54	0	8.79	32.53	25.25	273.8	0
20	8.84	32.532	6.46	10	8.83	32.53	25.24	274.8	.027
30	8.82	32.534	6.78	20	8.84	32.54	25.24	274.6	.055
50	8.83	32.538	6.54	30	8.82	32.54	25.25	274.4	.082
75	8.59	33.435	4.24	50	8.83	32.54	25.25	274.6	.137
100	7.81	33.718	3.63	75	8.59	33.44	25.99	204.9	.197
124	7.57	33.789	3.47	100	7.82	33.72	26.33	173.1	.244
149	7.33	33.856	3.71	150	7.32	33.86	26.50	157.0	.327
174	7.18	33.907	3.23	200	6.83	33.92	26.62	146.3	.403
199	6.84	33.921	2.71	250	6.33	33.96	6.72	137.7	.474
299	5.96	33.999	1.81	300	5.95	34.00	26.80	130.6	.541
398	5.25	34.054	1.29	400	5.24	34.06	26.93	118.8	.665
498	4.93	34.147	.97	500	4.92	34.15	27.04	109.1	.779
597	4.43	34.196	0.73	600	4.42	34.20	27.13	100.5	.884
697	4.30	34.292	0.73	700	4.30	34.29	27.22	92.8	.981
796	4.11	34.344	0.65	800	4.10	34.35	27.28	87.5	1.071
896	3.77	34.384	0.48	1000	3.46	34.41	27.40	76.9	1.235
995	3.47	34.408	0.60	1200	3.07	34.47	27.49	69.1	1.381
1194	3.08	34.471	0.81						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
148	7.84	33.760	3.73	150	7.82	33.77	26.36	170.2	.369
174	7.55	33.888	3.31	200	7.26	33.91	26.55	153.1	.450
199	7.27	33.907	3.23	250	6.66	33.95	26.66	142.9	.524
297	6.16	33.988	2.42	300	6.14	33.99	26.77	133.5	.593
397	5.53	34.081	1.15	400	5.52	34.08	26.92	120.1	.719
497	5.12	34.146	0.92	500	5.11	34.15	27.01	111.4	.835
596	4.73	34.207	0.65	600	4.72	34.21	27.11	103.1	.942
696	4.40	34.279	0.42	700	4.39	34.28	27.20	94.8	1.041
795	4.10	34.340	0.52	800	4.09	34.34	27.28	87.6	1.132
894	3.89	34.387	0.52	1000	3.52	34.42	27.40	77.2	1.297
994	3.54	34.414	0.48						

YH 65 44 18.9 N 125 35.0 W DATE 12 JAN 71 2335 GCT WIRE 05
DRY 38.7 WET 36.0 CRUISE Y7101B WIND DIRECTION 25 VEL 20 KTS BAR 99
SWELL DIRECTION 29 H 06 T 08 CLOUD 8 AMT 7 WEATHER 22

0	8.89	32.516	6.54	0	8.89	32.52	25.22	276.2	0
20	8.91	32.528	6.54	10	8.91	32.53	25.22	276.3	.028
30	8.89	32.525	6.54	20	8.91	32.53	25.23	276.0	.055
50	8.90	32.547	6.54	30	8.89	32.53	25.23	276.1	.083
74	8.06	33.093	5.08	50	8.90	32.55	25.25	274.9	.138
99	8.08	33.526	4.15	75	8.06	33.11	25.81	221.4	.200
124	7.80	33.762	3.79	100	8.07	33.54	26.14	190.4	.251
149	7.68		3.71	150	7.67	33.86	26.46	161.4	.339
173	7.39	33.891	3.47	200	7.07	33.93	26.59	149.2	.417
198	7.09	33.924	2.95	250	6.53	33.97	26.69	139.8	.489
297	6.08	33.991	2.02	300	6.05	33.99	26.78	132.3	.557
396	5.21	34.046	1.29	400	5.19	34.05	26.93	118.6	.683
495	4.95	34.159	0.89	500	4.94	34.16	27.05	108.2	.796
594	4.67	34.229	0.76	600	4.65	34.23	27.13	100.6	.900
693	4.38	34.289	0.48	700	4.36	34.29	27.21	93.7	.997
792	4.14	34.329	0.56	800	4.12	34.33	27.27	88.8	1.089
891	3.93	34.375	0.48	1000	3.57	34.41	27.39	78.0	1.255
990	3.60	34.409	0.44	1200	3.10	34.48	27.49	68.9	1.402
1188	3.13	34.477	0.60						

YH 45 44 19.0 N 125 06.0 W DATE 13 JAN 71 0445 GCT WIRE
DRY 42.0 WET 39.5 CRUISE Y7101B WIND DIRECTION 26 VEL 22 KTS BAR 00
SWELL DIRECTION 29 H 04 T 07 CLOUD 8 AMT 2 WEATHER 01

0C	9.50	32.45	0	9.50	32.46	25.07	290.3	0
10C	9.51	32.49	10	9.51	32.50	25.10	287.7	.029
20C	9.51	32.48	20	9.51	32.48	25.10	288.6	.058
30C	9.52	32.47	30	9.52	32.47	25.09	289.6	.087
49C	9.60	32.52	50	9.61	32.53	25.11	287.5	.144
68C	9.68	32.77	75	9.61	32.96	25.45	255.6	.212
75C	9.61	32.96	100	8.79	33.46	25.98	206.4	.270
86C	9.33	33.21	150	8.07	33.78	26.33	173.3	.365
99C	8.82	33.45	200	7.09	33.93	26.59	149.4	.445
124C	8.32	33.70	250	6.45	33.96	26.70	139.2	.518
151C	8.06	33.78	300	6.08	34.00	26.77	132.6	.586
201C	7.07	33.93	400	5.45	34.07	26.91	120.2	.712
251C	6.44	33.96	500	5.03	34.16	27.03	109.6	.827
300C	6.08	33.99	600	4.78	34.22	27.11	103.1	.933
399C	5.46	34.07	700	4.49	34.28	27.19	96.0	1.033

YH 105 44 19.0 N 126 31.2 W DATE 12 JAN 71 1251 GCT WIRE 13
DRY 38.5 WET 34.0 CRUISE Y71018 WIND DIRECTION 24 VEL 12 KTS BAR 02
SWELL DIRECTION 30 H 04 T 08 CLOUD 8 AMT 6 WEATHER 02

0	8.74	32.533	6.62	0	8.74	32.54	25.26	272.8	0
20	8.78	32.528	6.54	10	8.77	32.53	25.25	274.1	.027
30	8.77	32.528	6.54	20	8.78	32.53	25.25	274.1	.055
50	8.77	32.530	6.57	30	8.77	32.53	25.25	274.1	.082
75	8.84	32.996	5.25	50	8.77	32.53	25.25	274.3	.137
100	8.04	33.624	3.79	75	8.84	33.00	25.60	241.1	.201
125	7.81	33.749	3.55	100	8.04	33.63	26.22	183.3	.254
150	7.47	33.842	3.31	150	7.47	33.85	26.47	159.9	.340
175	7.22	33.902		200	6.99	33.94	26.61	147.2	.417
200	6.99	33.935	2.58	250	6.51	33.98	26.71	138.7	.488
296*	6.06	34.000	2.02	300	6.02	34.00	26.79	131.3	.556
394*	5.18	34.027	1.53	400	5.14	34.03	26.92	119.5	.681
493*	4.65	34.089	1.05	500	4.62	34.10	27.03	109.6	.796
591*	4.37	34.177	0.73	600	4.35	34.18	27.13	100.7	.901
690*	4.16	34.250	0.44	700	4.13	34.26	27.21	93.7	.998
789*	3.87	34.302	0.55	800	3.84	34.31	27.28	87.2	1.088
887*	3.63	34.362	0.40	1000	3.51	34.43	27.41	76.3	1.252
986*	3.53	34.419	0.48	1200	2.97	34.46	27.49	68.6	1.397
1183*	3.01	34.464	0.55						

YH 85 44 18.9 N 126 03.5 W DATE 12 JAN 71 1610 GCT WIRE
DRY 39.0 WET 34.5 CRUISE Y71018 WIND DIRECTION 22 VEL 23 KTS BAR 01
SWELL DIRECTION 29 H 07 T 08 CLOUD 8 AMT 6 WEATHER 02

0C	9.05	32.46	0	9.05	32.46	25.15	282.8	0
19C	9.05	32.47	10	9.05	32.47	25.16	282.5	.028
21C	9.05	32.47	20	9.05	32.47	25.16	282.7	.057
31C	9.05	32.48	30	9.05	32.48	25.17	282.2	.085
50C	9.05	32.48	50	9.05	32.48	25.17	282.1	.141
67C	8.45	32.78	75	8.16	32.96	25.67	234.7	.206
75C	8.16	32.95	100	8.12	33.40	26.03	201.1	.260
86C	7.95	33.19	150	7.86	33.86	26.43	164.0	.351
103C	8.12	33.40	200	7.30	33.92	26.56	152.5	.431
125C	8.15	33.62	250	6.63	33.92	26.65	144.5	.505
150C	7.86	33.86	300	6.00	33.94	26.74	135.8	.575
205C	7.24	33.93	400	5.17	34.00	26.89	122.4	.704
253C	6.59	33.92	500	5.06	34.13	27.00	112.6	.821
303C	5.97	33.94	600	4.67	34.21	27.11	102.7	.929
400C	5.16	33.99	700	4.34	34.27	27.19	95.3	1.028
500C	5.06	34.12	800	4.10	34.37	27.30	86.0	1.118
604C	4.65	34.21	1000	3.51	34.41	27.39	77.5	1.282
704C	4.33	34.27						
804C	4.09	34.37						
900C	3.86	34.40						
1003C	3.50	34.41						

YH 85 44 18.9 N 126 03.5 W DATE 12 JAN 71 1751 GCT WIRE 07
DRY 39.0 WET 34.5 CRUISE Y71018 WIND DIRECTION 22 VEL 20 KTS BAR 01
SWELL DIRECTION 29 H 06 T 08 CLOUD 8 AMT 6 WEATHER 02

0	9.09	32.491	6.54	0	9.09	32.50	25.17	281.1	0
20	9.08	32.487	6.54	10	9.09	32.49	25.17	281.7	.028
30	9.07	32.485	6.52	20	9.08	32.49	25.17	281.5	.056
49	9.08	32.485	6.46	30	9.07	32.49	25.17	281.7	.084
74	9.01	32.514	6.38	50	9.08	32.49	25.17	282.4	.141
99	8.03	33.172	4.92	75	8.97	32.54	25.22	277.4	.211
124	8.12	33.609	4.04	100	8.03	33.19	25.88	215.4	.272
501C	5.03	34.16		800	4.12	34.36	27.29	86.8	1.124
601C	4.78	34.22							
699C	4.49	34.28							
802C	4.11	34.36							
900C	3.71	34.40							

YH 35 44 19.0 N 124 51.8 W DATE 13 JAN 71 0715 GCT WIRE
DRY 40.0 WET 36.0 CRUISE Y71018 WIND DIRECTION 25 VEL 20 KTS BAR 01
SWELL DIRECTION 29 H 05 T 08 CLOUD 8 AMT 4 WEATHER 03

0C	9.44	32.50	0	9.44	32.50	25.12	285.7	0
10C	9.44	32.48	10	9.44	32.48	25.11	287.3	.029
21C	9.44	32.50	20	9.44	32.50	25.12	286.5	.057
31C	9.45	32.49	30	9.45	32.49	25.11	287.3	.086
51C	9.45	32.50	50	9.45	32.50	25.12	287.1	.143
67C	9.46	32.51	75	9.47	32.80	25.35	265.8	.213
76C	9.47	32.84	100	8.70	33.53	26.04	200.3	.271
85C	9.22	33.23	150	7.12	33.92	26.58	149.5	.358
102C	8.63	33.55	200	6.82	33.96	26.65	143.5	.431
125C	7.77	33.83	250	6.66	33.97	26.68	141.3	.503
149C	7.13	33.92	300	6.49	34.00	26.73	137.4	.572
174C	6.92	33.93						
201C	6.82	33.96						
251C	6.66	33.97						
300C	6.49	34.00						

FH 38 43 59.9 N 125 00.0 W DATE 13 JAN 71 1555 GCT WIRE
DRY 39.5 WET 37.0 CRUISE Y71018 WIND DIRECTION 26 VEL 23 KTS BAR 03
SWELL DIRECTION 27 H 08 T 08 CLOUD 8 AMT 4 WEATHER 01

0C	9.37	32.52	0	9.37	32.52	25.15	283.1	0
11C	9.37	32.52	10	9.37	32.52	25.15	283.5	.028
22C	9.39	32.51	20	9.39	32.51	25.14	284.6	.057
28C	9.39	32.53	30	9.39	32.53	25.15	283.3	.085
50C	9.33	32.76	50	9.33	32.76	25.34	265.6	.140
60C	9.25	33.07	75	8.97	33.43	25.92	211.4	.200
74C	8.99	33.41	100	8.38	33.72	26.24	181.4	.249
99C	8.40	33.71	150	7.43	33.90	26.52	155.3	.333
126C	7.85	33.87	200	7.10	33.95	26.60	147.9	.409
151C	7.41	33.90	250	6.68	33.98	26.69	140.3	.481
202C	7.09	33.95	300	6.14	34.02	26.79	131.0	.548
250C	6.67	33.98	400	5.53	34.10	26.92	119.2	.673
300C	6.13	34.02	500	5.16	34.16	27.02	111.2	.789
403C	5.52	34.10	600	4.80	34.23	27.11	102.7	.895
502C	5.15	34.16						
601C	4.80	34.23						

FH 65 43 59.0 N 125 37.9 W DATE 13 JAN 71 2240 GCT WIRE
DRY 40.7 WET 38.3 CRUISE Y71018 WIND DIRECTION 26 VEL 10 KTS BAR 06
SWELL DIRECTION 27 H 04 T 07 CLOUD 6 AMT 7 WEATHER 03

0C	8.96	32.50	0	8.96	32.50	25.20	278.5	0
9C	8.96	32.51	10	8.96	32.51	25.20	278.1	.028
21C	8.97	32.52	20	8.97	32.52	25.21	277.8	.056
32C	8.97	32.52	30	8.97	32.52	25.21	277.9	.083
48C	8.96	32.53	50	8.96	32.53	25.22	277.3	.139
74C	8.97	32.54	75	8.96	32.57	25.25	275.0	.208
87C	8.75	32.96	100	8.47	33.42	25.99	205.4	.268
100C	8.47	33.41	150	7.61	33.80	26.42	164.9	.361
112C	8.28	33.54	200	7.09	33.92	26.58	150.0	.439

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
125C	7.90	33.63		250	6.38	33.94	26.69	139.7	.512
149C	7.62	33.80		300	5.92	33.98	26.78	131.6	.579
175C	7.28	33.88		400	5.22	34.04	26.92	119.4	.705
202C	7.07	33.92		500	4.58	34.13	27.06	106.5	.818
249C	6.39	33.94		600	4.40	34.20	27.13	100.2	.921
301C	5.91	33.98		700	4.16	34.29	27.24	91.2	1.017
400C	5.22	34.04		800	3.91	34.35	27.31	84.7	1.105
501C	4.57	34.13		1000	3.39	34.40	27.40	76.9	1.266
601C	4.40	34.20							
700C	4.16	34.29							
800C	3.91	34.35							
901C	3.60	34.38							
1001C	3.39	34.40							

FH 85 43 59.0 N 126 05.2 W DATE 14 JAN 71 0310 GCT WIRE
DRY 40.2 WET 39.2 CRUISE Y71018 WIND DIRECTION 26 VEL 18 KTS BAR 06
SWELL DIRECTION 27 H 06 T 08 CLOUD 8 AMT 8 WEATHER 02

0C	9.00	32.47		0	9.00	32.47	25.17	281.3	0
11C	9.02	32.47		10	9.02	32.47	25.16	282.2	.028
20C	9.01	32.49		20	9.01	32.50	25.18	280.3	.056
30C	9.03	32.48		30	9.03	32.48	25.17	281.5	.084
51C	9.03	32.47		50	9.03	32.47	25.16	282.9	.141
67C	9.03	32.48		75	9.01	32.48	25.18	281.9	.211
75C	9.01	32.48		100	7.94	33.22	25.91	212.2	.273
87C	8.12	33.04		150	7.59	33.82	26.43	163.9	.367
102C	7.91	33.23		200	6.98	33.92	26.60	148.5	.445
124C	7.69	33.61		250	6.07	33.92	26.72	137.3	.517
151C	7.59	33.82		300	5.53	33.93	26.80	130.1	.583
175C	7.31	33.89		400	4.95	34.03	26.94	117.4	.707
202C	6.95	33.92		500	4.65	34.12	27.05	107.9	.820
251C	6.05	33.92		600	4.46	34.23	27.15	98.5	.923
300C	5.52	33.93		700	4.15	34.30	27.24	90.7	1.017
401C	4.95	34.03		800	3.92	34.36	27.31	84.4	1.105
499C	4.65	34.12		1000	3.39	34.40	27.40	76.8	1.266
599C	4.46	34.23							
702C	4.14	34.30							
803C	3.91	34.36							
902C	3.66	34.39							
1000C	3.39	34.40							

FH 105 43 59.0 N 126 32.6 W DATE 14 JAN 71 0940 GCT WIRE
DRY 44.0 WET 38.9 CRUISE Y71018 WIND DIRECTION 23 VEL 20 KTS BAR 07
SWELL DIRECTION 27 H 05 T 07 CLOUD 8 AMT 8 WEATHER 02

0C	8.89	32.53		0	8.89	32.53	25.23	275.2	0
11C	8.88	32.55		10	8.88	32.55	25.25	274.1	.027
21C	8.89	32.54		20	8.89	32.54	25.24	274.9	.055
30C	8.89	32.53		30	8.89	32.53	25.23	275.7	.082
50C	8.90	32.54		50	8.90	32.54	25.24	275.4	.138
67C	8.90	32.53		75	8.89	32.54	25.24	276.1	.206
76C	8.89	32.54		100	8.92	32.58	25.27	273.6	.275
86C	8.90	32.54		150	8.03	33.63	26.22	183.5	.389
100C	8.92	32.58		200	8.15	33.85	26.38	169.8	.478
114C	8.75	33.15		250	6.32	33.93	26.70	139.5	.555

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

FH 140 44 00.4 N 127 21.1 W DATE 14 JAN 71 1710 GCT WIRE
DRY 45.0 WET 42.0 CRUISE Y71018 WIND DIRECTION 22 VEL 12 KTS BAR 10
SWELL DIRECTION 27 H 04 T 06 CLOUD 6 AMT 8 WEATHER 02

0C	8.88	32.57		0	8.88	32.57	25.27	272.1	0
9C	8.88	32.58		10	8.88	32.58	25.27	271.9	.027
33C	8.89	32.56		20	8.88	32.57	25.26	272.6	.054
52C	8.89	32.58		30	8.89	32.56	25.26	273.5	.082
67C	8.89	32.59		50	8.89	32.58	25.27	272.8	.136
75C	8.89	32.58		75	8.89	32.58	25.27	272.7	.205
88C	8.11	33.33		100	7.97	33.55	26.17	187.8	.262
100C	7.97	33.55		150	7.53	33.84	26.46	160.7	.349
124C	7.84	33.71		200	6.84	33.92	26.62	146.3	.426
150C	7.52	33.84		250	6.33	33.96	26.72	137.7	.497
200C	6.84	33.92		300	5.97	34.01	26.80	130.2	.564
251C	6.32	33.96		400	4.90	34.04	26.95	115.9	.687
302C	5.96	34.01							
400C	4.90	34.04							

FH 10 43 58.8 N 124 22.6 W DATE 21 JAN 71 0500 GCT WIRE
DRY 46.0 WET 41.0 CRUISE Y7101C WIND DIRECTION 30 VEL 06 KTS BAR 33
SWELL DIRECTION 28 H 03 T 07 CLOUD AMT 0 WEATHER 00

0C	8.97	25.47		0	8.97	25.48	19.72	802.6	0
1C	9.05	31.18		10	9.23	32.53	25.18	280.4	.054
3C	9.25	32.23		20	9.23	32.57	25.21	278.2	.082
4C	9.25	32.34		30	9.24	32.57	25.21	278.0	.110
10C	9.23	32.53		50	9.26	32.67	25.28	271.2	.165
21C	9.23	32.57		75	9.19	32.79	25.39	261.7	.231
30C	9.24	32.57							
40C	9.29	32.65							
50C	9.26	32.67							
61C	9.18	32.71							
70C	9.17	32.73							
75C	9.19	32.79							
84C	9.17	32.85							

FH 20 43 59.2 N 124 36.5 W DATE 21 JAN 71 0645 GCT WIRE
DRY 61.0 WET 56.0 CRUISE Y7101C WIND DIRECTION 26 VEL 06 KTS BAR 34
SWELL DIRECTION 28 H 03 T 07 CLOUD 6 AMT 2 WEATHER 03

0C	9.12	32.57		0	9.12	32.57	25.23	275.6	0
1C	9.12	32.58		10	9.13	32.59	25.24	274.5	.028
3C	9.12	32.58		20	9.17	32.60	25.24	274.5	.055
10C	9.13	32.59		30	9.15	32.63	25.27	272.2	.082
20C	9.17	32.60		50	9.14	32.65	25.28	271.4	.137
30C	9.15	32.63		75	8.99	32.98	25.57	244.9	.201
40C	9.16	32.64		100	8.91	33.62	26.08	196.6	.256
52C	9.14	32.65							
60C	9.13	32.67							
71C	9.02	32.76							
79C	8.96	33.22							
89C	8.92	33.57							
102C	8.90	33.63							
120C	8.64	33.73							
128C	8.53	33.75							

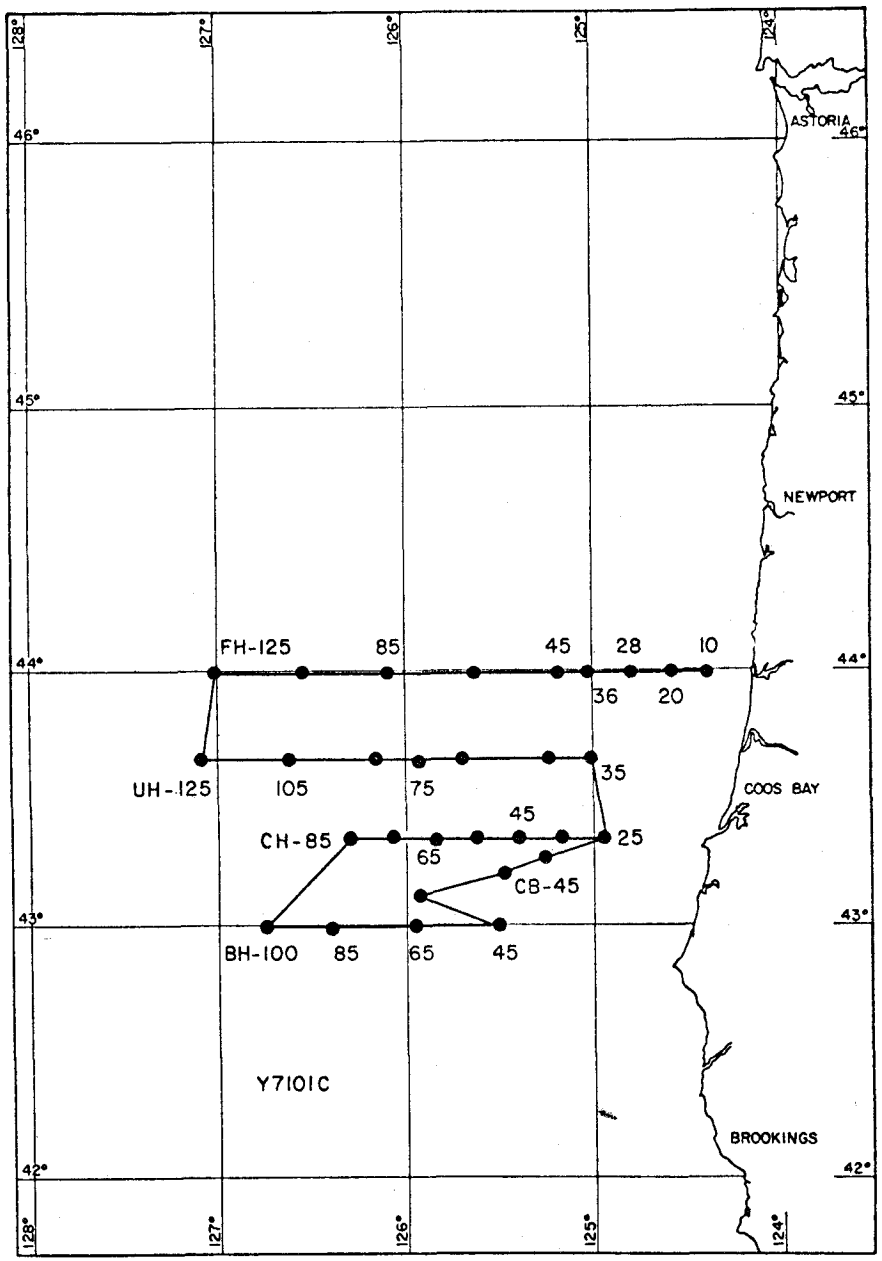
125C	8.45	33.42	300	5.69	33.97	26.81	129.2	.622
152C	8.00	33.64	400	5.11	34.06	26.95	116.6	.745
173C	7.45	33.80	500	4.53	34.14	27.08	104.7	.856
200C	6.15	33.85	600	4.30	34.25	27.18	95.7	.956
225C	6.67	33.92	700	3.98	34.30	27.26	88.6	1.048
250C	6.32	33.93	800	3.79	34.36	27.32	83.0	1.134
300C	5.69	33.97	1000	3.40	34.41	27.40	76.2	1.293
400C	5.11	34.06						
500C	4.52	34.14						
600C	4.30	34.24						
699C	3.98	34.30						
802C	3.79	34.36						
902C	3.62	34.39						
1000C	3.40	34.41						

FH 125 43 59.0 N 127 00.0 W DATE 14 JAN 71 1310 GCT WIRE
DRY 40.9 WET 39.2 CRUISE Y7101B WIND DIRECTION 26 VEL 32 KTS BAR 07
SWELL DIRECTION 27 H 06 T 08 CLOUD 8 AMT 5 WEATHER 02

0C	8.83	32.49	0	8.83	32.50	25.21	277.3	0
10C	8.85	32.50	10	8.85	32.50	25.22	277.0	.028
21C	8.85	32.50	20	8.85	32.50	25.21	277.5	.055
30C	8.85	32.50	30	8.85	32.50	25.22	277.3	.083
50C	8.85	32.51	50	8.85	32.51	25.22	276.9	.139
76C	8.94	32.54	75	8.94	32.53	25.23	277.1	.208
86C	8.83	32.67	100	8.20	33.29	25.93	211.0	.269
90C	8.42	33.01	150	7.67	33.79	26.40	167.2	.363
101C	8.18	33.29	200	7.08	33.91	26.57	150.7	.443
124C	7.97	33.61	250	6.51	33.93	26.67	141.8	.516
151C	7.66	33.79	300	5.58	33.93	26.79	131.1	.584
202C	7.06	33.91	400	4.79	34.04	26.96	114.8	.707
250C	6.50	33.93	500	4.55	34.16	27.09	104.0	.816
301C	5.56	33.93	600	4.27	34.24	27.18	95.8	.916
402C	4.78	34.04	700	4.16	34.32	27.26	89.0	1.009
501C	4.55	34.16	800	3.89	34.38	27.33	82.9	1.094
602C	4.27	34.24	1000	3.32	34.41	27.41	75.4	1.253
700C	4.16	34.32						
800C	3.88	34.37						
903C	3.56	34.39						
1002C	3.32	34.41						

FH 125 43 59.0 N 127 00.1 W DATE 14 JAN 71 1945 GCT WIRE
DRY 45.9 WET 45.0 CRUISE Y7101B WIND DIRECTION 18 VEL 22 KTS BAR 08
SWELL DIRECTION 27 H 04 T 08 CLOUD 7 AMT 8 WEATHER 02

0C	8.87	32.54	0	8.87	32.54	25.24	274.2	0
11C	8.87	32.53	10	8.87	32.53	25.23	275.3	.027
19C	8.87	32.52	20	8.87	32.52	25.23	276.2	.055
31C	8.87	32.54	30	8.87	32.54	25.24	275.1	.083
50C	8.87	32.54	50	8.87	32.54	25.24	275.0	.138
66C	8.87	32.54	75	8.87	32.55	25.25	274.7	.206
75C	8.87	32.55	100	8.15	33.42	26.04	200.1	.266
85C	8.65	32.88	150	7.69	33.79	26.40	166.8	.357
99C	8.16	33.40	200	6.73	33.89	26.61	147.6	.436
112C	8.11	33.61	250	6.04	33.92	26.72	137.1	.507
125C	7.99	33.72	300	5.55	33.93	26.79	130.8	.574
150C	7.69	33.79	400	4.84	34.02	26.94	116.9	.698
202C	6.69	33.89						
301C	5.54	33.93						
402C	4.83	34.02						



OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)

FH 28 43 59.0 N 124 47.1 W DATE 21 JAN 71 0825 GCT WIRE
DRY 49.5 WET 44.5 CRUISE Y7101C WIND DIRECTION 27 VEL 10 KTS BAR 33
SWELL DIRECTION 28 H 03 T 07 CLOUD 8 AMT 2 WEATHER 02

0C	9.30	32.38	0	9.30	32.38	25.05	292.4	0
1C	9.30	32.38	10	9.31	32.38	25.05	292.8	.029
103	9.31	32.38	20	9.31	32.45	25.10	288.2	.058
34C	9.26	32.57	30	9.28	32.53	25.17	281.7	.087
50C	9.14	32.66	50	9.14	32.67	25.30	270.1	.142
62C	9.05	32.77	75	8.86	33.37	25.89	213.7	.202
80C	8.78	33.60						
90C	8.64	33.67						

FH 36 43 59.0 N 125 01.1 W DATE 21 JAN 71 1110 GCT WIRE
DRY 47.1 WET 44.0 CRUISE Y7101C WIND DIRECTION 28 VEL 14 KTS BAR 33
SWELL DIRECTION 28 H 04 T 07 CLOUD 8 AMT 5 WEATHER 03

0C	9.30	32.58	0	9.30	32.58	25.21	277.6	0
2C	9.30	32.58	10	9.30	32.57	25.20	278.6	.028
13C	9.30	32.57	20	9.30	32.57	25.20	278.7	.056
20C	9.30	32.57	30	9.33	32.60	25.22	277.1	.083
32C	9.33	32.60	50	9.26	32.70	25.31	269.2	.138
53C	9.24	32.73	75	9.07	33.46	25.93	210.2	.198
68C	9.23	33.01	100	8.57	33.67	26.17	187.9	.248
75C	9.07	33.46	150	8.08	33.81	26.36	170.8	.337
89C	8.81	33.56	200	7.68	33.88	26.47	160.7	.420
102C	8.53	33.69	250	6.99	33.95	26.62	146.8	.497
152C	8.07	33.82	300	6.34	34.00	26.75	135.5	.568
205C	7.63	33.89	400	5.77	34.07	26.87	124.3	.697
254C	6.93	33.96	500	5.28	34.12	26.97	115.6	.817
301C	6.33	34.00	600	4.78	34.22	27.11	102.6	.926
402C	5.76	34.07	700	4.39	34.30	27.21	93.5	1.024
502C	5.27	34.12	800	4.01	34.38	27.32	84.1	1.113
600C	4.77	34.22	1000	3.58	34.46	27.43	74.6	1.272
701C	4.39	34.30						
803C	4.00	34.38						
1001C	3.58	34.46						

FH 45 43 59.0 N 125 11.0 W DATE 21 JAN 71 1300 GCT WIRE
DRY 46.2 WET 44.9 CRUISE Y7101C WIND DIRECTION 27 VEL 20 KTS BAR 33
SWELL DIRECTION 28 H 04 T 07 CLOUD 8 AMT 6 WEATHER 03

0C	9.13	32.60	0	9.13	32.60	25.25	273.6	0
1C	9.13	32.60	10	9.14	32.59	25.24	274.6	.027
10C	9.14	32.59	20	9.14	32.58	25.23	275.8	.055
22C	9.14	32.58	30	9.14	32.59	25.24	275.5	.082
32C	9.14	32.59	50	9.15	32.61	25.25	274.2	.137
54C	9.15	32.62	75	8.85	33.36	25.89	214.3	.198
63C	9.15	32.66	100	8.64	33.72	26.20	184.9	.248
77C	8.80	33.49	150	8.08	33.88	26.40	166.4	.336
87C	8.78	33.66	200	7.27	33.95	26.58	150.4	.415
100C	8.64	33.72	250	6.77	33.98	26.67	141.9	.488
150C	8.08	33.87	300	6.22	34.03	26.78	132.0	.557
203C	7.22	33.95	400	5.58	34.07	26.90	121.5	.684

OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)

FH 105 43 59.2 N 126 32.8 W DATE 22 JAN 71 0030 GCT WIRE
DRY 49.0 WET 45.1 CRUISE Y7101C WIND DIRECTION 31 VEL 10 KTS BAR 34
SWELL DIRECTION 30 H 06 T 07 CLOUD 8 AMT 7 WEATHER 02

0C	8.89	32.60	0	8.89	32.60	25.29	270.0	0
2C	8.89	32.60	10	8.89	32.59	25.28	271.1	.027
12C	8.89	32.59	20	8.89	32.60	25.28	270.7	.054
21C	8.89	32.60	30	8.88	32.59	25.28	271.1	.081
30C	8.88	32.59	50	8.87	32.60	25.29	270.5	.135
50C	8.87	32.60	75	8.77	32.64	25.34	266.6	.203
66C	8.81	32.59	100	8.25	33.44	26.04	200.0	.261
79C	8.71	32.72	150	7.59	33.84	26.45	161.7	.351
87C	8.40	33.09	200	7.02	33.89	26.57	151.3	.429
100C	8.25	33.44	250	6.50	33.95	26.68	140.7	.502
150C	7.59	33.84	300	5.79	33.94	26.77	132.9	.571
201C	7.01	33.89	400	4.87	34.00	26.92	118.9	.697
251C	6.49	33.95	500	4.65	34.12	27.04	108.4	.810
302C	5.76	33.94	600	4.27	34.22	27.16	97.4	.913
404C	4.85	34.00	700	4.16	34.33	27.27	88.1	1.006
503C	4.65	34.12	800	3.87	34.40	27.35	80.9	1.090
603C	4.26	34.22	1000	3.31	34.46	27.45	71.5	1.242
700C	4.15	34.33						
803C	3.86	34.40						
1000C	3.31	34.46						

FH 125 43 59.0 N 127 00.2 W DATE 22 JAN 71 0300 GCT WIRE
DRY 47.0 WET 45.0 CRUISE Y7101C WIND DIRECTION 27 VEL 14 KTS BAR 32
SWELL DIRECTION 30 H 06 T 08 CLOUD 8 AMT 8 WEATHER 02

0C	8.74	32.55	0	8.74	32.55	25.27	271.5	0
1C	8.74	32.55	10	8.74	32.55	25.27	272.0	.027
11C	8.74	32.55	20	8.75	32.56	25.28	271.2	.054
20C	8.75	32.56	30	8.75	32.55	25.27	272.4	.082
31C	8.75	32.55	50	8.78	32.58	25.28	271.4	.136
52C	8.79	32.58	75	8.82	32.63	25.32	268.0	.203
62C	8.83	32.60	100	7.79	33.51	26.17	188.1	.260
75C	8.82	32.63	150	7.23	33.83	26.50	157.5	.347
90C	7.87	33.35	200	6.83	33.92	26.62	146.2	.423
100C	7.78	33.51	250	6.10	33.92	26.71	137.7	.493
150C	7.23	33.83						
200C	6.83	33.92						
250C	6.10	33.92						

UH 125 43 39.0 N 127 05.0 W DATE 22 JAN 71 0630 GCT WIRE
DRY 47.0 WET 45.5 CRUISE Y7101C WIND DIRECTION 27 VEL 16 KTS BAR 33
SWELL DIRECTION 30 H 05 T 07 CLOUD 8 AMT 1 WEATHER 02

0C	9.11	32.62	0	9.11	32.63	25.27	271.8	0
1C	9.11	32.62	10	9.12	32.60	25.25	273.7	.027
11C	9.12	32.60	20	9.12	32.61	25.26	273.0	.055
20C	9.12	32.61	30	9.12	32.61	25.26	273.2	.082
30C	9.12	32.61	50	9.19	32.65	25.28	272.0	.136
51C	9.19	32.65	75	8.86	32.63	25.31	268.8	.204
62C	8.88	32.64	100	8.68	33.25	25.83	220.3	.265
76C	8.86	32.63	150	8.03	33.77	26.33	173.1	.363

251C	6.76	33.98	500	5.07	34.15	27.02	111.0	.800
304C	6.18	34.03	600	4.75	34.22	27.11	103.0	.907
400C	5.58	34.07	700	4.39	34.30	27.22	93.0	1.005
503C	5.06	34.15	800	4.03	34.38	27.32	83.7	1.093
605C	4.74	34.22	1000	3.52	34.47	27.44	73.2	1.250
703C	4.38	34.30						
803C	4.02	34.38						
1002C	3.52	34.47						

FH 65 43 59.0 N 125 37.7 W DATE 21 JAN 71 1515 GCT WIRE
DRY 45.5 WET 44.0 CRUISE Y7101C WIND DIRECTION 29 VEL 20 KTS BAR 31
SWELL DIRECTION 28 H 04 T 08 CLOUD 8 AMT 3 WEATHER 03

0C	8.85	32.54	0	8.85	32.54	25.25	273.9	0
1C	8.85	32.54	10	8.85	32.54	25.24	274.3	.027
11C	8.85	32.54	20	8.85	32.54	25.24	274.5	.055
22C	8.85	32.54	30	8.86	32.53	25.24	275.3	.082
34C	8.86	32.53	50	8.87	32.55	25.25	274.2	.137
53C	8.87	32.56	75	8.86	32.59	25.28	272.0	.206
63C	8.87	32.57	100	8.29	33.44	26.04	200.5	.265
77C	8.83	32.59	150	7.46	33.83	26.46	161.2	.355
87C	8.37	33.25	200	6.89	33.95	26.63	145.1	.432
100C	8.29	33.44	250	6.33	33.98	26.73	136.2	.502
151C	7.44	33.83	300	6.12	34.03	26.80	130.5	.569
201C	6.88	33.95	400	5.63	34.08	26.90	121.3	.694
252C	6.31	33.98	500	5.04	34.18	27.05	107.7	.809
301C	6.12	34.03	600	4.59	34.24	27.14	99.5	.912
400C	5.62	34.08	700	4.27	34.30	27.23	92.2	1.008
500C	5.03	34.18	800	4.02	34.37	27.31	84.9	1.097
604C	4.58	34.24	1000	3.45	34.47	27.45	72.4	1.254
704C	4.26	34.30						
803C	4.01	34.37						
1001C	3.45	34.47						

FH 85 43 58.8 N 126 05.4 W DATE 21 JAN 71 2005 GCT WIRE
DRY 49.0 WET 46.0 CRUISE Y7101C WIND DIRECTION 32 VEL 18 KTS BAR 33
SWELL DIRECTION 30 H 04 T 07 CLOUD 6 AMT 6 WEATHER 02

0C	9.28	32.60	0	9.28	32.60	25.23	275.8	0
1C	9.28	32.60	10	9.28	32.60	25.23	276.0	.028
10C	9.28	32.60	20	9.28	32.60	25.22	276.5	.055
21C	9.28	32.60	30	9.28	32.61	25.23	275.6	.083
30C	9.28	32.61	50	9.28	32.61	25.23	276.2	.138
51C	9.28	32.61	75	9.30	32.63	25.24	275.9	.207
62C	9.29	32.60	100	8.55	33.08	25.72	231.0	.270
75C	9.30	32.62	150	7.79	33.69	26.30	176.3	.372
87C	9.18	32.72	200	7.15	33.88	26.55	153.3	.455
100C	8.55	33.08	250	6.47	33.95	26.69	140.3	.528
151C	7.79	33.69	300	5.80	33.97	26.79	130.9	.596
200C	7.14	33.88	400	5.13	34.04	26.93	118.2	.720
251C	6.46	33.95	500	4.60	34.13	27.06	106.4	.832
302C	5.78	33.97	600	4.39	34.25	27.18	95.8	.934
400C	5.12	34.04	700	4.14	34.33	27.27	88.3	1.026
500C	4.60	34.13	800	3.90	34.38	27.33	82.2	1.111
600C	4.38	34.25	1000	3.40	34.46	27.44	72.6	1.265
702C	4.13	34.33						
800C	3.89	34.38						
1001C	3.40	34.46						

87C	8.67	32.96	200	7.01	33.89	26.57	150.7	.444
100C	8.68	33.25	250	6.52	33.91	26.65	143.8	.518
150C	8.03	33.77	300	5.82	33.91	26.74	135.6	.588
200C	7.00	33.89	400	4.88	33.98	26.91	119.7	.715
252C	6.50	33.91	500	4.58	34.10	27.04	108.4	.830
303C	5.78	33.91	600	4.44	34.23	27.15	98.4	.933
400C	4.87	33.98	700	4.31	34.31	27.24	91.5	1.028
500C	4.58	34.10	800	3.93	34.37	27.32	83.9	1.115
601C	4.44	34.23	1000	3.46	34.47	27.45	72.5	1.272
700C	4.31	34.31						
803C	3.92	34.37						
1001C	3.46	34.47						

UH 105 43 39.0 N 126 36.9 W DATE 22 JAN 71 1117 GCT WIRE
DRY 48.8 WET 48.1 CRUISE Y7101C WIND DIRECTION 27 VEL 18 KTS BAR 31
SWELL DIRECTION 30 H 04 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.31	32.62	0	9.31	32.63	25.24	274.8	0
1C	9.31	32.62	10	9.32	32.61	25.23	275.9	.028
10C	9.32	32.61	20	9.32	32.61	25.23	276.3	.055
21C	9.32	32.61	30	9.32	32.62	25.23	276.0	.083
34C	9.32	32.62	50	9.32	32.61	25.23	276.8	.138
52C	9.32	32.61	75	9.33	32.67	25.27	273.1	.207
67C	9.33	32.62	100	8.61	33.36	25.92	211.7	.267
76C	9.32	32.68	150	7.68	33.80	26.41	165.8	.362
88C	8.83	33.05	200	6.94	33.90	26.59	149.1	.440
101C	8.60	33.38	250	6.29	33.92	26.69	140.2	.513
150C	7.67	33.80	300	5.67	33.90	26.76	134.0	.581
200C	6.94	33.90	400	5.14	34.03	26.92	119.7	.708
251C	6.28	33.92	500	4.81	34.13	27.03	109.6	.823
300C	5.66	33.90	600	4.41	34.18	27.12	101.4	.928
401C	5.14	34.03	700	4.13	34.29	27.23	91.3	1.024
500C	4.81	34.12	800	3.95	34.35	27.30	85.5	1.113
600C	4.41	34.18	1000	3.52	34.46	27.43	73.9	1.272
701C	4.13	34.29						
801C	3.95	34.35						
1000C	3.52	34.46						

UH 85 43 39.0 N 126 09.5 W DATE 22 JAN 71 1450 GCT WIRE
DRY 48.0 WET 47.0 CRUISE Y7101C WIND DIRECTION 27 VEL 18 KTS BAR 30
SWELL DIRECTION 30 H 05 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.26	32.58	0	9.25	32.58	25.21	277.0	0
1C	9.26	32.58	10	9.26	32.58	25.21	277.5	.028
13C	9.26	32.58	20	9.26	32.58	25.21	277.6	.055
22C	9.26	32.58	30	9.26	32.57	25.21	278.4	.083
33C	9.26	32.57	50	9.26	32.58	25.21	278.5	.139
54C	9.26	32.58	75	9.30	32.60	25.22	277.4	.208
63C	9.29	32.59	100	8.65	32.88	25.54	248.1	.274
79C	9.30	32.61	150	7.57	33.60	26.27	179.3	.381
89C	9.23	32.63	200	7.15	33.87	26.54	154.3	.464
100C	8.65	32.87	250	6.41	33.92	26.67	142.0	.538
153C	7.55	33.63	300	5.71	33.93	26.77	132.4	.607
204C	7.12	33.88	400	5.05	34.02	26.92	118.9	.732
250C	6.40	33.91	500	4.55	34.12	27.05	107.2	.845
300C	5.71	33.93	600	4.36	34.21	27.15	99.0	.949
400C	5.05	34.02	700	4.25	34.28	27.21	93.4	1.045
504C	4.54	34.12	800	3.91	34.36	27.32	83.9	1.133
602C	4.36	34.21	1000	3.44	34.45	27.43	73.8	1.291
701C	4.25	34.28						
800C	3.91	34.36						
1002C	3.44	34.45						

	OBSERVED				INTERPOLATED			COMPUTED		
	D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
	(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
UH 75		43 38.6 N		125 56.0 W		DATE 22 JAN 71		1711 GCT		WIRE
DRY 47.3		WET 46.5		CRUISE Y7101C		WIND DIRECTION 28		VEL 20 KTS		BAR 30
SWELL DIRECTION 30 H 04 T 07				CLOUD 6		AMT 6		WEATHER 02		
	0C	8.99	32.57		0	8.99	32.57	25.25	273.7	0
	1C	8.99	32.57		10	9.00	32.57	25.24	274.3	.027
	11C	9.00	32.57		20	9.00	32.56	25.24	275.0	.055
	26C	9.00	32.56		30	9.00	32.56	25.24	275.1	.082
	35C	9.00	32.57		50	9.00	32.57	25.25	274.7	.137
	50C	9.00	32.57		75	9.02	32.62	25.28	272.3	.206
	62C	9.05	32.60		100	8.05	33.15	25.84	218.6	.267
	76C	9.01	32.62		150	7.63	33.78	26.40	166.6	.363
	88C	8.64	32.78		200	7.03	33.88	26.56	152.4	.443
	100C	8.05	33.15		250	6.38	33.92	26.67	141.6	.517
	150C	7.62	33.78		300	5.76	33.94	26.78	132.2	.585
	200C	7.02	33.87		400	5.08	34.05	26.94	117.3	.710
	250C	6.37	33.91							
	300C	5.75	33.94							
	400C	5.08	34.05							
UH 65		43 39.0 N		125 41.9 W		DATE 22 JAN 71		1915 GCT		WIRE
DRY 47.9		WET 45.1		CRUISE Y7101C		WIND DIRECTION 28		VEL 20 KTS		BAR 30
SWELL DIRECTION 30 H 04 T 07				CLOUD 6		AMT 6		WEATHER 02		
	0C	8.93	32.49		0	8.93	32.50	25.20	278.8	0
	1C	8.93	32.49		10	8.93	32.51	25.21	277.4	.028
	10C	8.93	32.51		20	8.93	32.49	25.19	279.4	.056
	19C	8.93	32.49		30	8.93	32.50	25.20	278.5	.084
	30C	8.93	32.50		50	8.93	32.50	25.20	279.1	.139
	49C	8.93	32.50		75	8.37	32.52	25.30	269.8	.208
	70C	8.96	32.51		100	7.97	33.17	25.87	216.0	.269
	79C	7.95	32.53		150	7.63	33.86	26.46	160.8	.363
	90C	8.20	32.99		200	7.06	33.96	26.62	146.1	.439
	100C	7.97	33.17		250	6.68	33.99	26.69	140.1	.511
	125C	7.82	33.69		300	6.27	34.03	26.78	131.9	.579
	143C	7.64	33.86		400	5.46	34.04	26.89	122.6	.706
	200C	7.05	33.96							
	252C	6.67	33.99							
	300C	6.26	34.03							
	402C	5.44	34.04							
UH 45		43 39.0 N		125 14.0 W		DATE 22 JAN 71		2300 GCT		WIRE
DRY 48.0		WET 46.5		CRUISE Y7101C		WIND DIRECTION 28		VEL 12 KTS		BAR 29
SWELL DIRECTION 30 H 04 T 07				CLOUD 6		AMT 8		WEATHER 02		
	0C	9.14	32.56		0	9.14	32.56	25.22	276.7	0
	2C	9.14	32.56		10	9.14	32.56	25.21	277.1	.028
	12C	9.14	32.56		20	9.14	32.57	25.23	276.3	.055
	20C	9.14	32.57		30	9.13	32.56	25.22	277.3	.083
	31C	9.13	32.56		50	9.12	32.60	25.25	274.3	.138
	52C	9.12	32.63		75	8.67	33.46	25.99	204.9	.198
	66C	9.01	33.09		100	8.67	33.73	26.21	184.6	.247
	75C	8.67	33.45		150	8.04	33.93	26.45	162.0	.333
	87C	8.87	33.64		200	7.30	33.94	26.57	150.9	.412
	100C	8.67	33.73		250	6.92	33.98	26.66	143.5	.485
	152C	8.02	33.93		300	6.33	34.01	26.75	134.7	.555

	OBSERVED				INTERPOLATED			COMPUTED		
	D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
	(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
CH 25		43 20.5 N		124 56.6 W		DATE 23 JAN 71		0559 GCT		WIRE 00
DRY 48.0		WET 47.2		CRUISE Y7101C		WIND DIRECTION 30		VEL 15 KTS		BAR 28
SWELL DIRECTION 30 H 04 T 07				CLOUD 6		AMT 8		WEATHER 02		
	0	9.49	32.557	6.46	0	9.49	32.56	25.16	282.2	0
	10	9.51	32.560	6.45	10	9.51	32.56	25.16	282.5	.028
	20	9.45	32.572	6.42	20	9.45	32.58	25.18	280.8	.056
	30	9.46	32.592	6.40	30	9.46	32.60	25.19	279.7	.084
	50	9.38	32.623	6.34	50	9.38	32.63	25.23	276.5	.140
	67	9.44	32.693	6.12	75	9.16	33.20	25.71	231.3	.203
	75	9.16	33.194	4.97	100	8.75	33.56	26.05	199.0	.257
	87	8.73	33.385	4.13	150	7.95	33.84	26.39	167.8	.349
	100	8.75	33.552	3.91	200	7.07	33.91	26.57	150.7	.429
	125	8.47	33.768	3.30	250	6.67	33.98	26.69	140.2	.501
	150	7.95	33.827	3.14	300	6.37	34.02	26.76	134.4	.570
	200	7.07	33.902	3.12	400	5.55	34.06	26.90	121.9	.698
	250	6.66	33.979	2.37						
	300	6.37	34.015	1.89						
	400		34.064	1.27						
CH 35		43 20.5 N		125 10.2 W		DATE 23 JAN 71		0800 GCT		WIRE
DRY 49.0		WET 49.0		CRUISE Y7101C		WIND DIRECTION 31		VEL 15 KTS		BAR 28
SWELL DIRECTION 30 H 04 T 07				CLOUD		AMT 9		WEATHER 52		
	0C	9.60	32.61		0	9.60	32.61	25.18	280.0	0
	2C	9.60	32.61		10	9.60	32.59	25.17	281.6	.028
	10C	9.60	32.59		20	9.60	32.61	25.18	280.3	.056
	20C	9.60	32.61		30	9.60	32.60	25.17	281.4	.084
	32C	9.60	32.60		50	9.43	32.64	25.23	276.1	.140
	51C	9.42	32.65		75	9.03	33.14	25.68	233.8	.204
	63C	9.48	32.86		100	8.96	33.60	26.06	198.6	.258
	79C	8.87	33.23		150	7.88	33.89	26.45	162.0	.348
	91C	8.86	33.45		200	6.81	33.91	26.61	147.0	.425
	103C	8.99	33.65		250	6.38	33.97	26.72	137.3	.496
	151C	7.84	33.90		300	6.16	34.06	26.81	129.0	.563
	202C	6.78	33.91		400	5.65	34.10	26.91	120.4	.687
	254C	6.36	33.98		500	5.10	34.17	27.03	110.1	.803
	303C	6.15	34.06		600	4.76	34.24	27.13	101.5	.908
	401C	5.64	34.10		700	4.34	34.33	27.24	90.7	1.004
	500C	5.10	34.16		800	4.06	34.36	27.30	86.1	1.093
	603C	4.75	34.24							
	702C	4.33	34.33							
	804C	4.05	34.36							
CH 35		43 20.5 N		125 10.2 W		DATE 23 JAN 71		0822 GCT		WIRE 00
DRY 49.0		WET 49.0		CRUISE Y7101C		WIND DIRECTION 31		VEL 15 KTS		BAR 28
SWELL DIRECTION 30 H 04 T 07				CLOUD		AMT 9		WEATHER 02		
	0	9.61	32.608	6.35	0	9.61	32.61	25.18	280.3	0
	10	9.61	32.606		10	9.61	32.61	25.18	280.6	.028
	20	9.60	32.607		20	9.60	32.61	25.18	280.5	.056
	30	9.62	32.621		30	9.62	32.63	25.19	280.0	.084
	50	9.49	32.645		50	9.49	32.65	25.23	276.6	.140
	62	9.66	32.735		75	8.91	33.26	25.79	223.1	.202
	75	8.91	33.253	4.92	100	8.97	33.67	26.10	194.2	.254
	87	8.78	33.443	3.82	150	7.94	33.80	26.36	170.2	.345

200C	7.29	33.94		400	5.57	34.08	26.91	120.7	.682
250C	6.91	33.98		500	5.15	34.16	27.02	111.1	.798
302C	6.31	34.01		600	4.68	34.23	27.13	100.8	.904
400C	5.57	34.08		700	4.29	34.31	27.23	91.8	1.000
501C	5.15	34.16		800	4.02	35.09	27.88	31.3	1.062
600C	4.68	34.23		1000	3.52	34.47	27.44	73.1	1.166
701C	4.29	34.31							
801C	4.02	35.10							
1001C	3.52	34.46							

UH 35 43 39.0 N 125 00.5 W DATE 23 JAN 71 0133 GCT WIRE
DRY 47.0 WET 47.3 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 28
SWELL DIRECTION 30 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	9.16	32.55		0	9.16	32.55	25.21	277.7	0
1C	9.16	32.55		10	9.16	32.55	25.20	278.2	.028
11C	9.16	32.55		20	9.16	32.55	25.20	278.4	.056
22C	9.16	32.55		30	9.16	32.56	25.21	277.9	.083
31C	9.16	32.56		50	9.18	32.59	25.23	276.6	.139
55C	9.19	32.59		75	9.12	32.72	25.35	265.8	.207
62C	9.19	32.59		100	8.46	33.47	26.03	200.8	.265
75C	9.12	32.72		150	7.91	33.85	26.42	165.3	.356
87C	8.63	33.27		200	7.28	33.93	26.56	152.0	.436
103C	8.46	33.47		250	6.66	33.98	26.69	140.6	.509
153C	7.90	33.85		300	6.22	34.01	26.77	133.2	.577
202C	7.25	33.93		400	5.47	34.07	26.91	120.7	.704
254C	6.51	33.98		500	5.07	34.14	27.01	111.6	.820
301C	6.21	34.01		600	4.74	34.21	27.11	103.0	.928
404C	5.45	34.07		700	4.32	34.31	27.23	92.0	1.025
501C	5.07	34.14		800	4.13	34.36	27.30	86.4	1.114
600C	4.74	34.21		1000	3.60	34.44	27.41	76.3	1.277
701C	4.32	34.31							
800C	4.12	34.36							
1002C	3.59	34.44							

CH 25 43 20.5 N 124 56.6 W DATE 23 JAN 71 0432 GCT WIRE
DRY 49.0 WET 47.2 CRUISE Y7101C WIND DIRECTION 30 VEL 15 KTS BAR 28
SWELL DIRECTION 30 H 04 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.54	32.58		0	9.54	32.58	25.17	281.3	0
2C	9.54	32.58		10	9.54	32.58	25.17	281.7	.028
12C	9.54	32.58		20	9.51	32.59	25.18	280.5	.056
26C	9.48	32.60		30	9.47	32.60	25.19	279.6	.084
31C	9.47	32.60		50	9.49	32.67	25.24	275.2	.140
57C	9.50	32.71		75	9.20	33.14	25.66	235.9	.204
66C	9.51	32.77		100	8.65	33.50	26.02	201.9	.258
77C	9.12	33.23		150	8.13	33.81	26.35	171.7	.352
97C	8.88	33.32		200	7.21	33.91	26.56	152.5	.433
101C	8.63	33.51		250	6.68	33.99	26.69	140.0	.506
154C	8.09	33.82		300	6.36	34.01	26.75	134.9	.575
203C	7.15	33.91		400	5.55	34.10	26.92	119.3	.702
251C	6.67	33.99		500	5.11	34.17	27.03	109.9	.816
301C	6.35	34.01		600	4.70	34.26	27.15	99.3	.921
401C	5.54	34.10		700	4.44	34.32	27.23	92.6	1.017
501C	5.11	34.17							
601C	4.70	34.26							
700C	4.44	34.32							

100	8.97	33.661	3.69	200	6.98	33.94	26.61	147.1	.425
125	8.49		2.68	250	6.57	34.02	26.73	136.0	.496
150	7.94		2.71	300	6.24	34.06	26.81	129.7	.562
200	6.98	33.934	2.87	400	5.65	34.08	26.90	121.9	.688
250	6.56	34.018	0.85						
300	6.24	34.055	0.71						
400		34.080	0.61						

CH 45 43 20.5 N 125 24.1 W DATE 23 JAN 71 1135 GCT WIRE
DRY 49.4 WET 49.1 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 28
SWELL DIRECTION 30 H 04 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.14	32.59		0	9.14	32.59	25.24	274.5	0
0C	9.14	32.59		10	9.15	32.59	25.24	275.0	.027
1C	9.14	32.59		20	9.14	32.60	25.25	274.1	.055
9C	9.15	32.59		30	9.15	32.59	25.24	275.3	.082
20C	9.14	32.60		50	9.18	32.63	25.26	273.5	.137
32C	9.15	32.59		75	8.52	33.45	26.01	203.0	.197
52C	9.18	32.65		100	8.16	33.75	26.29	176.3	.244
68C	8.71	33.22		150	7.55	33.91	26.51	156.6	.327
76C	8.50	33.48		200	7.07	33.96	26.62	146.4	.403
85C	8.36	33.61		250	6.65	34.02	26.72	137.7	.474
99C	8.18	33.74		300	6.18	34.04	26.80	130.4	.541
125C	7.79	33.85		400	5.60	34.11	26.93	119.1	.666
153C	7.53	33.91		500	4.95	34.17	27.05	107.7	.779
200C	7.07	33.96		600	4.58	34.27	27.17	96.7	.881
254C	6.62	34.02		700	4.31	34.34	27.26	89.4	.974
299C	6.19	34.04		800	4.04	34.38	27.32	84.0	1.061
399C	5.61	34.11		1000	3.43	34.42	27.41	75.8	1.221
499C	4.95	34.17							
605C	4.57	34.28							
800C	4.04	34.38							
903C	3.71	34.41							
998C	3.44	34.42							

CH 55 43 20.5 N 125 37.5 W DATE 23 JAN 71 1330 GCT WIRE
DRY 54.0 WET 49.0 CRUISE Y7101C WIND DIRECTION 29 VEL 18 KTS BAR 27
SWELL DIRECTION 30 H 05 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	8.92	32.51		0	8.92	32.51	25.21	277.1	0
1C	8.92	32.51		10	8.92	32.51	25.21	277.6	.028
12C	8.92	32.51		20	8.92	32.50	25.21	278.2	.056
20C	8.92	32.50		30	8.92	32.50	25.21	278.4	.083
30C	8.92	32.50		50	8.92	32.50	25.21	278.7	.139
50C	8.92	32.50		75	8.91	32.56	25.25	274.5	.208
63C	8.92	32.52		100	7.86	33.42	26.08	196.1	.267
78C	8.86	32.62		150	7.63	33.85	26.45	161.6	.356
90C	8.13	33.28		200	7.04	33.96	26.62	146.5	.433
104C	7.80	33.43		250	6.57	33.98	26.70	139.0	.505
154C	7.62	33.88		300	6.13	34.02	26.79	131.3	.572
201C	7.03	33.96		400	5.51	34.11	26.94	118.1	.697
250C	6.57	33.98							
301C	6.12	34.02							
401C	5.51	34.11							

CH 55 43 20.5 N 125 37.5 W DATE 23 JAN 71 1450 GCT WIRE 03
DRY 54.0 WET 49.0 CRUISE Y7101C WIND DIRECTION 29 VEL 18 KTS BAR 27
SWELL DIRECTION 30 H 05 T 07 CLOUD 6 AMT 8 WEATHER 02

0	8.90	32.488	6.54	0	8.90	32.49	25.20	278.5	0
10	8.93	32.489	6.52	10	8.93	32.49	25.20	279.0	.028

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
20	8.92	32.486	6.50	20	8.92	32.49	25.19	279.2	.056
30	8.92	32.486	6.50	30	8.92	32.49	25.19	279.4	.084
50	8.93	32.488	6.52	50	8.93	32.49	25.19	279.7	.140
62	8.91	32.497	6.58	75	8.92	32.53	25.23	276.9	.209
75	8.92	32.530	6.38	100	7.83	33.37	26.05	199.3	.269
87	8.19	33.067	5.34	150	7.74	33.83	26.42	164.6	.360
100	7.83	33.368	4.62	200	7.18	33.96	26.60	148.4	.438
125	7.84	33.669	3.97	250	6.65	33.99	26.70	139.5	.510
150	7.74	33.830	3.32	300	6.21	34.01	26.77	133.0	.578
200	7.17	33.951	2.58	400	5.59	34.09	26.91	120.6	.705
250	6.64	33.985	2.20						
300	6.21	34.007	1.92						
400	5.59	34.088	1.20						

CH 65 43 20.0 N 125 50.8 W DATE 23 JAN 71 1555 GCT WIRE
DRY 47.1 WET 46.1 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 27
SWELL DIRECTION 30 H 06 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	8.92	32.50	0	8.92	32.50	25.21	277.9	0
2C	8.92	32.50	10	8.92	32.49	25.20	279.0	.028
11C	8.92	32.49	20	8.92	32.50	25.20	278.7	.056
23C	8.92	32.50	30	8.93	32.50	25.20	278.8	.084
33C	8.93	32.50	50	8.97	32.55	25.23	276.1	.139
56C	8.99	32.56	75	8.96	32.59	25.27	273.0	.208
63C	9.00	32.54	100	7.95	33.43	26.08	196.4	.266
75C	8.96	32.59	150	7.57	33.83	26.45	162.0	.356
87C	8.57	33.16	200	6.89	33.89	26.59	149.6	.434
100C	7.95	33.43	250	6.62	33.96	26.68	141.6	.507
150C	7.56	33.83	300	6.03	33.97	26.77	133.3	.575
202C	6.86	33.89	400	5.53	34.06	26.89	122.2	.703
251C	6.62	33.96	500	5.04	34.15	27.02	110.5	.819
300C	6.02	33.97	600	4.66	34.26	27.16	98.4	.924
402C	5.53	34.06	700	4.35	34.32	27.23	91.6	1.019
502C	5.03	34.15	800	4.05	34.37	27.31	85.3	1.107
600C	4.66	34.26						
701C	4.35	34.32						
804C	4.04	34.37						

CH 75 43 20.5 N 126 04.0 W DATE 23 JAN 71 1815 GCT WIRE
DRY 48.2 WET 46.3 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 27
SWELL DIRECTION 30 H 07 T 08 CLOUD 6 AMT 7 WEATHER 01

0C	9.03	32.58	0	9.03	32.58	25.25	273.6	0
1C	9.03	32.58	10	9.03	32.56	25.24	275.2	.027
12C	9.03	32.56	20	9.03	32.56	25.23	275.7	.055
22C	9.03	32.56	30	9.03	32.56	25.23	275.8	.083
34C	9.03	32.56	50	9.04	32.56	25.23	276.3	.138
53C	9.04	32.56	75	9.04	32.56	25.23	276.5	.207
64C	9.04	32.56	100	8.50	33.13	25.75	227.3	.270
76C	9.04	32.56	150	7.66	33.66	26.30	176.5	.371
90C	8.78	32.72	200	7.19	33.90	26.56	152.5	.453
100C	8.50	33.12	250	6.33	33.91	26.68	141.4	.526
153C	7.63	33.69	300	5.65	33.93	26.77	132.3	.595
200C	7.19	33.90	400	4.97	33.99	26.91	120.3	.721
252C	6.29	33.91						
311C	5.53	33.93						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
151C	7.83	33.81		300	6.22	34.00	26.76	133.6	.582
204C	7.05	33.91		400	5.58	34.06	26.89	122.7	.711
250C	6.65	33.95							
300C	6.22	34.00							
401C	5.58	34.06							

BH 100 43 00.0 N 126 45.0 W DATE 24 JAN 71 0135 GCT WIRE 00
DRY 47.0 WET 45.0 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 25
SWELL DIRECTION 30 H 06 T 08 CLOUD 6 AMT 7 WEATHER 02

0	9.22	32.586	6.51	0	9.22	32.59	25.23	275.9	0
10	9.14	32.582	6.51	10	9.14	32.59	25.23	275.2	.028
20	9.22	32.587	6.52	20	9.22	32.59	25.23	276.2	.055
30	9.24	32.578	6.50	30	9.24	32.58	25.22	277.4	.083
50	9.24	32.577	6.52	50	9.24	32.58	25.22	277.8	.138
62	9.24	32.579	6.49	75	9.33	32.64	25.25	275.1	.207
75	9.33	32.638	6.36	100	8.50	33.44	26.00	204.3	.267
87	9.08	32.970	5.54	150	7.79	33.84	26.42	165.0	.360
100	8.50	33.431	4.46	200	7.07	33.94	26.60	148.5	.438
125	7.84	33.709	3.78	250	6.69	33.99	26.69	140.1	.510
150	7.78	33.831	3.28	300	6.20	34.00	26.77	133.6	.578
200	7.07	33.932	2.85	400	5.64	34.07	26.89	122.9	.707
250	6.68	33.984	2.38						
300	6.20	33.997	2.06						
400	5.64	34.066	1.27						

BH 85 42 59.3 N 126 24.0 W DATE 24 JAN 71 0359 GCT WIRE
DRY 46.6 WET 44.6 CRUISE Y7101C WIND DIRECTION 30 VEL 14 KTS BAR 25
SWELL DIRECTION 30 H 06 T 08 CLOUD 8 AMT 2 WEATHER 01

0C	9.39	32.65	0	9.39	32.65	25.25	273.8	0
1C	9.39	32.65	10	9.39	32.65	25.25	274.2	.027
13C	9.39	32.65	20	9.39	32.65	25.25	274.4	.055
21C	9.39	32.65	30	9.39	32.64	25.24	275.2	.082
33C	9.39	32.64	50	9.40	32.65	25.24	275.2	.137
52C	9.40	32.65	75	9.42	32.72	25.30	270.4	.206
63C	9.42	32.66	100	8.47	33.38	25.96	207.6	.265
75C	9.42	32.72	150	7.83	33.78	26.37	169.7	.360
88C	9.05	33.01	200	7.19	33.92	26.56	151.8	.440
100C	8.47	33.38	250	6.65	33.96	26.67	142.0	.513
151C	7.82	33.79	300	6.04	33.97	26.76	133.8	.582
200C	7.19	33.91	400	5.57	34.07	26.90	121.4	.710
256C	6.59	33.96	500	5.02	34.17	27.04	108.8	.825
303C	6.00	33.97	600	4.55	34.23	27.14	99.7	.929
400C	5.57	34.07	700	4.31	34.31	27.23	91.9	1.025
502C	5.01	34.17	800	4.04	34.36	27.30	85.8	1.114
601C	4.55	34.23	1000	3.52	34.45	27.42	74.6	1.274
702C	4.31	34.31						
801C	4.04	34.36						
1002C	3.51	34.45						

BH 65 43 00.0 N 125 57.5 W DATE 24 JAN 71 0808 GCT WIRE
DRY 49.2 WET 46.0 CRUISE Y7101C WIND DIRECTION 29 VEL 12 KTS BAR 25
SWELL DIRECTION 30 H 06 T 08 CLOUD 8 AMT 2 WEATHER 02

409C 4.95 34.00

CH 75 43 20.5 N 126 04.0 W DATE 23 JAN 71 1926 GCT WIRE 00
DRY 48.2 WET 46.3 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 27
SWELL DIRECTION 30 H 07 T 08 CLOUD 6 AMT 7 WEATHER 01

0	9.04	32.571	6.50	0	9.04	32.58	25.24	274.4	0
10	9.05	32.552	6.50	10	9.05	32.56	25.23	276.1	.028
20	9.02	32.549	6.51	20	9.02	32.55	25.23	276.0	.055
30	9.00	32.548	6.50	30	9.00	32.55	25.23	276.0	.083
50	9.02	32.549	6.50	50	9.02	32.55	25.23	276.6	.138
62	9.01	32.547	6.49	75	9.01	32.56	25.23	276.6	.207
75	9.01	32.552	6.49	100	8.57	33.06	25.69	233.0	.271
87	9.02	32.603	6.32	150	7.65	33.64	26.28	177.6	.373
100	8.57	33.058	5.54	200	7.32	33.90	26.54	154.2	.456
125	7.84	33.351	4.41	250	6.44	33.93	26.68	141.2	.530
150	7.64	33.635	4.04	300	5.67	33.94	26.78	131.5	.598
200	7.31	33.899	4.17	400	4.96	33.99	26.91	120.4	.724
250	6.43	33.926	2.98						
300	5.66	33.934	2.43						
400	4.96	33.989	1.59						

CH 85 43 20.5 N 126 17.9 W DATE 23 JAN 71 2055 GCT WIRE
DRY 47.5 WET 46.0 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 26
SWELL DIRECTION 30 H 08 T 09 CLOUD 6 AMT 8 WEATHER 02

0C	9.33	32.61	0	9.33	32.61	25.23	275.8	0
3C	9.33	32.61	10	9.33	32.61	25.22	276.3	.028
13C	9.33	32.61	20	9.33	32.60	25.22	276.9	.055
20C	9.33	32.60	30	9.33	32.60	25.22	277.1	.083
30C	9.33	32.60	50	9.33	32.60	25.22	277.5	.138
50C	9.33	32.60	75	9.48	32.67	25.25	275.0	.207
62C	9.44	32.67	100	8.95	33.18	25.73	229.6	.271
75C	9.48	32.67	150	7.80	33.75	26.35	171.7	.371
88C	9.46	32.70	200	7.08	33.87	26.54	153.6	.452
101C	8.90	33.23	250	6.47	33.91	26.66	143.3	.526
151C	7.79	33.76	300	5.69	33.92	26.77	133.2	.595
205C	7.02	33.88	400	5.13	34.00	26.89	121.7	.723
255C	6.41	33.91	500	4.79	34.11	27.02	110.6	.839
301C	5.67	33.92	600	4.42	34.19	27.12	101.1	.945
401C	5.13	34.00	700	4.14	34.25	27.21	93.8	1.042
503C	4.78	34.11	800	4.03	34.34	27.29	86.9	1.133
602C	4.41	34.19	1000	3.52	34.45	27.42	74.6	1.294
700C	4.13	34.25						
808C	4.02	34.35						
1002C	3.51	34.45						

BH 100 43 00.0 N 126 45.0 W DATE 24 JAN 71 0045 GCT WIRE
DRY 47.0 WET 45.0 CRUISE Y7101C WIND DIRECTION 29 VEL 16 KTS BAR 25
SWELL DIRECTION 30 H 06 T 08 CLOUD 6 AMT 7 WEATHER 02

0C	9.24	32.57	0	9.24	32.57	25.21	277.4	0
2C	9.24	32.57	10	9.24	32.57	25.21	277.9	.028
12C	9.24	32.57	20	9.24	32.59	25.23	276.3	.055
23C	9.24	32.59	30	9.24	32.59	25.23	276.5	.083
30C	9.24	32.59	50	9.25	32.59	25.22	277.3	.138
51C	9.25	32.59	75	9.34	32.69	25.28	272.1	.207
65C	9.25	32.60	100	8.52	33.42	25.98	206.1	.267
78C	9.35	32.73	150	7.83	33.80	26.38	168.2	.360
87C	9.13	32.94	200	7.10	33.91	26.57	151.0	.440
100C	8.52	33.41	250	6.66	33.96	26.67	142.3	.513
0C	9.12	32.57	0	9.12	32.57	25.23	275.6	0
1C	9.12	32.57	10	9.13	32.57	25.23	276.0	.028
10C	9.13	32.57	20	9.14	32.57	25.22	276.6	.055
21C	9.14	32.57	30	9.14	32.56	25.22	277.2	.083
30C	9.14	32.56	50	9.14	32.57	25.22	277.4	.138
53C	9.14	32.57	75	8.85	33.16	25.73	229.1	.202
62C	9.16	32.59	100	8.16	33.59	26.17	187.6	.254
79C	8.71	33.36	150	7.78	33.84	26.42	164.4	.342
90C	8.37	33.53	200	7.18	33.93	26.58	150.0	.420
102C	8.12	33.60	250	6.68	33.90	26.63	146.2	.494
152C	7.77	33.85	300	6.25	33.99	26.75	135.3	.565
200C	7.17	33.93	400	5.44	34.05	26.90	121.6	.693
250C	6.67	33.90	500	4.89	34.12	27.01	111.2	.809
302C	6.23	33.99	600	4.50	34.23	27.15	99.2	.915
401C	5.43	34.05	700	4.33	34.30	27.22	92.9	1.011
506C	4.86	34.12	800	4.07	34.38	27.31	85.1	1.099
602C	4.49	34.23	1000	3.51	34.46	27.43	73.8	1.258
703C	4.33	34.30						
800C	4.07	34.37						
1002C	3.50	34.46						

BH 65 43 00.0 N 125 57.5 W DATE 24 JAN 71 0933 GCT WIRE
DRY 49.2 WET 46.0 CRUISE Y7101C WIND DIRECTION 29 VEL 12 KTS BAR 25
SWELL DIRECTION 30 H 06 T 08 CLOUD 8 AMT 2 WEATHER 02

0	9.12	32.584	6.51	0	9.12	32.59	25.24	274.6	0
10	9.14	32.581	6.46	10	9.14	32.59	25.23	275.3	.027
20	9.13	32.586	6.38	20	9.13	32.59	25.24	274.9	.055
30	9.15	32.583	6.45	30	9.15	32.59	25.23	275.6	.083
50	9.12	32.586	6.42	50	9.12	32.59	25.24	275.3	.138
62	9.18	32.626	6.27	75	8.87	33.22	25.77	225.6	.200
75	8.87	33.211	4.76	100	8.08	33.65	26.23	182.2	.251
87	8.27	33.526	3.97	150	7.79	33.99	26.54	153.8	.335
100	8.08	33.647	3.99	200	7.19	33.96	26.60	148.8	.411
125	7.81	33.802	3.54	250	6.73	33.99	26.69	140.6	.483
150	7.78	33.982	3.23	300	6.28	34.02	26.77	133.2	.552
200	7.19	33.950	2.67	400	5.47	34.06	26.90	121.1	.679
250	6.73	33.986	2.44						
300	6.27	34.014	2.02						
400	5.47	34.062	1.27						

BH 45 43 00.0 N 125 30.4 W DATE 24 JAN 71 1210 GCT WIRE
DRY 47.6 WET 45.1 CRUISE Y7101C WIND DIRECTION 26 VEL 12 KTS BAR 25
SWELL DIRECTION 30 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	9.11	32.03	0	9.11	32.03	24.81	315.6	0
1C	9.11	32.03	10	9.07	32.47	25.16	282.5	.030
10C	9.07	32.47	20	9.06	32.51	25.19	280.1	.058
21C	9.06	32.51	30	9.07	32.53	25.21	278.4	.086
30C	9.07	32.53	50	9.07	32.54	25.21	278.4	.142
53C	9.07	32.54	75	8.76	33.13	25.72	230.5	.205
63C	9.08	32.54	100	8.36	33.52	26.08	196.2	.259
79C	8.64	33.33	150	7.75	33.83	26.42	164.8	.349
87C	8.55	33.40	200	7.03	33.87	26.55	153.0	.428
105C	8.29	33.56	250	6.52	33.92	26.66	142.8	.502
152C	7.73	33.84	300	6.27	34.03	26.78	132.5	.571
203C	6.99	33.87	400	5.50	34.06	26.90	121.6	.698
254C	6.49	33.93	500	4.97	34.21	27.08	105.5	.812
301C	6.27	34.03	600	4.61	34.27	27.17	97.0	.913
401C	5.49	34.06	700	4.31	34.33	27.25	90.4	1.006
500C	4.97	34.20	800	4.04	34.40	27.33	82.8	1.093
600C	4.61	34.27						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
701C	4.31	34.33							
800C	4.04	34.40							

BH 45 43 00.0 N 125 30.4 W DATE 24 JAN 71 1357 GCT WIRE 02

DRY 47.6 WET 45.1 CRUISE Y7101C WIND DIRECTION 26 VEL 12 KTS BAR 25
SWELL DIRECTION 30 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02

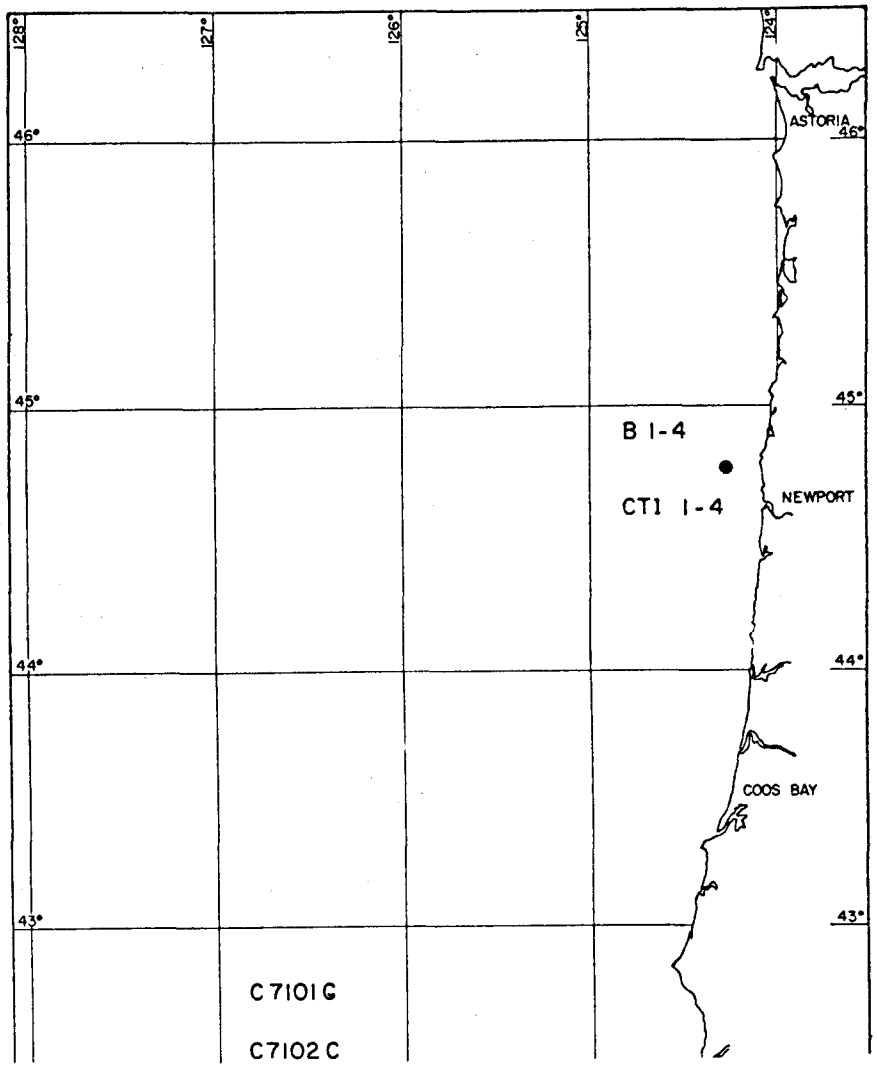
0	9.08	32.418	6.57	0	9.08	32.42	25.12	286.3	0
10	9.08	32.458	6.54	10	9.08	32.46	25.15	283.5	.028
20	9.04	32.515	6.52	20	9.04	32.52	25.20	278.9	.057
30	9.06	32.519	6.54	30	9.06	32.52	25.20	279.0	.084
50	9.06	32.520	6.53	50	9.06	32.52	25.20	279.3	.140
62	9.08	32.542	6.46	75	8.78	33.30	25.85	218.1	.202
75	8.78	33.295	4.75	100	8.27	33.57	26.13	191.2	.254
87	8.51	33.442	4.46	150	7.82	33.89	26.45	161.7	.342
100	8.27	33.562	4.21	200	7.18	33.97	26.61	147.6	.419
125		33.763	3.57	250	6.58	34.01	26.72	137.6	.490
150	7.81	33.882	3.20	300	6.28	34.05	26.80	130.8	.557
200	7.17	33.962	2.87	400	5.57	34.10	26.92	119.7	.683
250	6.58	34.001	2.34						
300	6.27	34.047	1.88						
400	5.57	34.098	1.30						

CB 65 43 07.0 N 125 56.0 W DATE 27 JAN 71 0205 GCT WIRE
DRY 50.1 WET 48.5 CRUISE Y7101C WIND DIRECTION 20 VEL 06 KTS BAR 31
SWELL DIRECTION 28 H 03 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	9.10	32.56		0	9.10	32.56	25.22	276.1	0
3C	9.10	32.56		10	9.02	32.56	25.23	275.4	.028
11C	9.01	32.56		20	9.00	32.55	25.23	275.9	.055
22C	9.00	32.55		30	8.99	32.56	25.24	275.0	.083
30C	8.99	32.56		50	8.98	32.56	25.24	275.4	.138
51C	8.98	32.56		75	8.65	32.79	25.47	253.6	.204
63C	8.97	32.56		100	8.13	33.39	26.02	202.0	.261
75C	8.65	32.79		150	7.82	33.73	26.33	173.1	.355
87C	8.20	33.12		200	7.36	33.88	26.52	156.3	.437
101C	8.12	33.41		250	6.87	33.94	26.63	146.3	.512
150C	7.82	33.73		300	6.42	33.98	26.72	137.6	.583
200C	7.36	33.88		400	5.68	34.05	26.87	124.6	.714
251C	6.86	33.94		500	5.13	34.15	27.01	111.6	.832
300C	6.41	33.98		600	4.70	34.22	27.12	102.2	.939
401C	5.67	34.05		700	4.39	34.30	27.21	93.5	1.037
501C	5.13	34.15		800	4.10	34.36	27.29	86.6	1.127
601C	4.70	34.22		1000	3.53	34.45	27.42	74.7	1.288
701C	4.39	34.30							
803C	4.09	34.36							
1000C	3.53	34.45							

CB 45 43 12.0 N 125 29.0 W DATE 27 JAN 71 0545 GCT WIRE
DRY 49.9 WET 48.5 CRUISE Y7101C WIND DIRECTION 00 VEL 08 KTS BAR 30
SWELL DIRECTION 28 H 03 T 08 CLOUD 8 AMT 2 WEATHER 01

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
200C	7.19	33.87							
255C	6.58	33.94							



0C	9.17	32.58	0	9.17	32.58	25.23	275.6	0
2C	9.17	32.58	10	9.15	32.57	25.22	276.3	.028
14C	9.14	32.57	20	9.14	32.57	25.23	276.3	.055
20C	9.14	32.57	30	9.14	32.58	25.23	276.2	.083
32C	9.14	32.58	50	9.16	32.61	25.25	274.6	.138
53C	9.16	32.64	75	8.67	33.25	25.82	220.5	.200
68C	8.78	33.13	100	8.16	33.70	26.26	179.7	.250
75C	8.67	33.24	150	7.51	33.87	26.48	158.9	.334
83C	8.31	33.56	200	6.92	33.92	26.60	147.9	.411
103C	8.13	33.72	250	6.41	33.96	26.71	138.3	.483
151C	7.50	33.87	300	6.01	33.99	26.78	132.1	.550
204C	6.88	33.92	400	5.52	34.10	26.93	119.2	.676
250C	6.40	33.96	500	5.03	34.15	27.03	109.9	.790
302C	6.00	33.99	600	4.71	34.23	27.12	101.7	.896
403C	5.51	34.10	700	4.36	34.31	27.22	92.5	.993
500C	5.02	34.15	800	4.11	34.36	27.29	86.6	1.082
603C	4.70	34.23	1000	3.54	34.46	27.43	74.1	1.243
703C	4.35	34.31						
801C	4.11	34.36						
1003C	3.54	34.46						

CB 35 43 16.0 N 125 15.6 W DATE 27 JAN 71 0713 GCT WIRE
DRY 54.1 WET 52.5 CRUISE Y7101C WIND DIRECTION 00 VEL 12 KTS BAR 30
SWELL DIRECTION 28 H 03 T 08 CLOUD 8 AMT 1 WEATHER 01

0C	9.37	32.51	0	9.37	32.51	25.14	283.9	0
1C	9.37	32.51	10	9.33	32.55	25.18	280.9	.028
13C	9.31	32.56	20	9.23	32.53	25.18	281.0	.056
22C	9.21	32.52	30	9.17	32.54	25.19	279.7	.084
33C	9.17	32.55	50	9.17	32.60	25.24	275.0	.140
50C	9.17	32.60	75	9.02	33.45	25.93	210.5	.200
65C	9.34	33.25	100	8.65	33.65	26.15	190.2	.251
76C	8.98	33.46	150	7.99	33.85	26.40	167.0	.340
93C	8.94	33.54	200	7.37	33.89	26.52	156.1	.421
100C	8.65	33.65	250	6.62	33.89	26.62	146.7	.496
155C	7.96	33.85	300	6.26	34.01	26.76	133.8	.566
201C	7.36	33.89	400	5.54	34.09	26.92	120.0	.693
251C	6.81	33.89	500	5.09	34.17	27.03	109.7	.808
301C	6.25	34.01	600	4.66	34.25	27.14	99.7	.913
405C	5.51	34.09	700	4.41	34.32	27.23	91.9	1.008
503C	5.08	34.17	800	4.16	34.38	27.30	85.7	1.097
600C	4.65	34.24	1000	3.65	34.47	27.43	74.6	1.258
700C	4.41	34.32						
801C	4.16	34.38						
1002C	3.64	34.47						

CB 25 43 20.4 N 124 56.1 W DATE 27 JAN 71 0930 GCT WIRE
DRY 50.0 WET 47.5 CRUISE Y7101C WIND DIRECTION 00 VEL 16 KTS BAR 29
SWELL DIRECTION 28 H 03 T 07 CLOUD 6 AMT WEATHER 01

0C	9.53	32.44	0	9.53	32.44	25.06	291.5	0
1C	9.53	32.44	10	9.54	32.43	25.05	292.6	.029
14C	9.57	32.43	20	9.68	32.47	25.06	292.0	.058
21C	9.69	32.48	30	9.37	32.46	25.10	288.0	.087
31C	9.32	32.46	50	9.12	32.47	25.15	283.9	.145
51C	9.12	32.47	75	8.90	33.21	25.76	226.2	.208
62C	9.23	32.74	100	8.74	33.64	26.12	192.4	.261
75C	8.90	33.21	150	8.07	33.82	26.37	170.0	.351
83C	8.96	33.53	200	7.19	33.88	26.53	154.7	.432
101C	8.72	33.65	250	6.62	33.93	26.66	143.4	.507
150C	8.07	33.82						

B 1 44 46.3 N 124 16.5 W DATE 26 JAN 71 2030 GCT WIRE
DRY 51.2 WET 48.6 CRUISE C7101G WIND DIRECTION 18 VEL 10 KTS BAR 30
SWELL DIRECTION 27 H 04 T 08 CLOUD 6 AMT 6 WEATHER 01

0	9.34		0	9.34	32.44	25.09	288.6	0
22	9.33		10	9.34	32.43	25.08	289.5	.029
44	9.32		20	9.33	32.47	25.12	286.6	.058
67	9.33		30	9.33	32.46	25.11	287.4	.086
89	9.27		50	9.33	32.47	25.12	286.9	.144
			75	9.32	33.21	25.70	232.4	.209

B 2 44 46.3 N 124 16.5 W DATE 27 JAN 71 1913 GCT WIRE

DRY 47.5 WET 46.1 CRUISE C7101G WIND DIRECTION 09 VEL 10 KTS BAR 29
SWELL DIRECTION 29 H 04 T 10 CLOUD 0 AMT 7 WEATHER 02

0	9.15		0	9.15	32.44	25.12	285.7	0
22	9.11		10	9.12	32.43	25.12	286.3	.029
44	9.13		20	9.11	32.47	25.15	283.3	.057
67	9.33		30	9.12	32.46	25.14	284.3	.085
89	8.94		50	9.20	32.47	25.14	285.1	.142
			75	9.25	33.21	25.71	231.5	.207

B 3 44 46.3 N 124 16.5 W DATE 28 JAN 71 1815 GCT WIRE
DRY 46.8 WET 45.1 CRUISE C7101G WIND DIRECTION VEL KTS BAR 28
SWELL DIRECTION 28 H 04 T 08 CLOUD 7 AMT 5 WEATHER 02

0	8.70		0	8.70	32.44	25.19	279.1	0
22	9.17		10	9.16	32.43	25.11	286.9	.028
44	9.18		20	9.17	32.47	25.14	284.2	.057
67	9.26		30	9.17	32.46	25.13	285.1	.085
89	8.56		50	9.24	32.47	25.13	285.6	.142
			75	9.09	33.21	25.73	229.0	.207

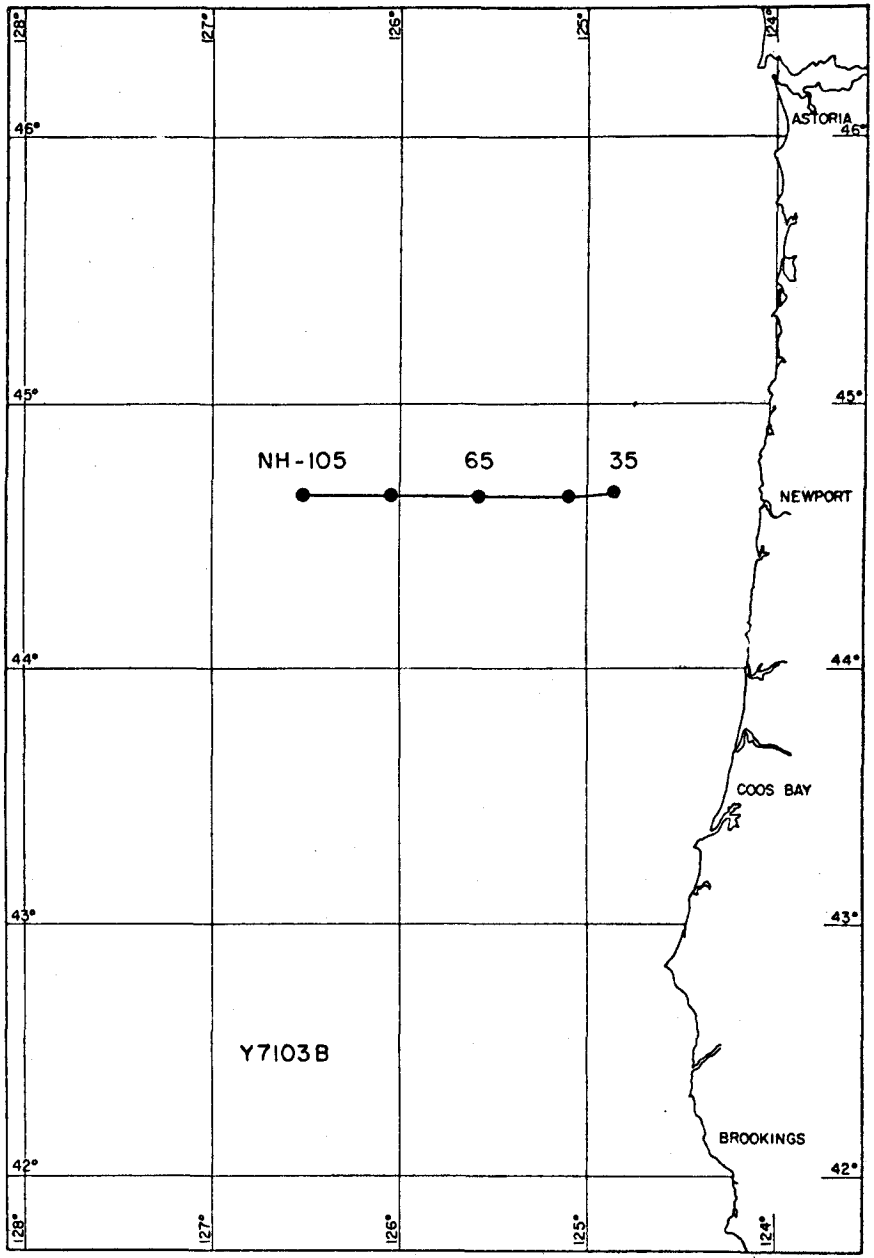
B 4 44 46.3 N. 124 16.5 W DATE 29 JAN 71 2003 GCT WIRE
DRY 44.4 WET 43.2 CRUISE C7101G WIND DIRECTION VEL KTS BAR 26
SWELL DIRECTION 30 H 03 T 08 CLOUD 6 AMT 8 WEATHER 02

0	8.62		0	8.62	32.44	25.20	278.0	0
22	9.16		10	9.10	32.43	25.12	286.0	.028
44	9.27		20	9.15	32.47	25.15	283.9	.057
67	8.97		30	9.25	32.46	25.12	286.2	.085
89	8.42		50	9.23	32.47	25.13	285.4	.142
			75	8.80	33.21	25.78	224.6	.206

B 1 44 46.3 N 124 16.5 W DATE 08 FEB 71 2125 GCT WIRE 00
DRY 49.2 WET 46.9 CRUISE C7102C WIND DIRECTION VEL 02 KTS BAR 24
SWELL DIRECTION 28 H 04 T 10 CLOUD 3 AMT 1 WEATHER 02

0	8.53		0	8.53	32.44	25.22	276.7	0
10	8.76		10	8.76	32.43	25.17	281.0	.028
20	8.85		20	8.85	32.47	25.19	279.5	.056
30	8.98		30	8.98	32.46	25.16	282.3	.084
50	8.85		50	8.85	32.47	25.19	279.9	.140
75	8.08		75	8.08	33.21	25.89	214.2	.202
85	8.01							

	OBSERVED				INTERPOLATED			COMPUTED		
	D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
CTI 1	44 46.3 N	124 16.5 W			DATE 08 FEB 71 2200 GCT WIRE					
DRY 49.2	WET 46.9	CRUISE C7102C			WIND DIRECTION 23 VEL 10 KTS				BAR 24	
SWELL DIRECTION 28 H 04 T 10					CLOUD 3 AMT 5			WEATHER 02		
	0C	8.80	30.10		0	8.80	30.10	23.35	454.7	0
	5C	8.70	30.30		10	8.70	30.40	23.60	431.0	.044
	10C	8.70	30.40		20	8.80	30.71	23.82	410.3	.086
	15C	8.80	30.70		30	9.00	31.00	24.02	391.0	.126
	20C	8.80	30.70		50	8.80	32.10	24.91	306.6	.196
	25C	8.80	30.80							
	30C	9.00	31.00							
	35C	9.00	31.50							
	40C	9.00	31.70							
	50C	8.80	32.10							
CTI 2	44 46.3 N	124 16.5 W			DATE 08 FEB 71 2350 GCT WIRE					
DRY	WET				CRUISE C7102C WIND DIRECTION 23 VEL 10 KTS				BAR 24	
SWELL DIRECTION 28 H 04 T 10					CLOUD 3 AMT 5			WEATHER 02		
	0C	8.48	29.96		0	8.48	29.96	23.29	460.6	0
	5C	7.90	29.96		10	8.69	30.73	23.85	407.1	.043
	10C	8.69	30.72		20	8.74	30.80	23.91	402.0	.084
	15C	8.70	30.66		30	8.20	31.17	24.27	367.7	.122
	20C	8.74	30.80		50	8.63	32.34	25.12	286.3	.188
	25C	8.76	30.90							
	30C	8.20	31.16							
	35C	8.91	31.42							
	40C	8.90	31.75							
	45C	8.81	32.02							
	50C	8.63	32.34							
B 2	44 46.3 N	124 16.5 W			DATE 09 FEB 71 0100 GCT WIRE 00					
DRY 46.2	WET 45.1	CRUISE C7102C			WIND DIRECTION 23 VEL 10 KTS				BAR 24	
SWELL DIRECTION 28 H 04 T 10					CLOUD 3 AMT 5			WEATHER 03		
	0	8.52			0	8.52				
	10	8.87			10	8.87				
	20	8.88			20	8.88				
	30	9.04			30	9.04				
	50	8.70			50	8.70				
	75	8.11			75	8.11				
	85	8.09								
B 3	44 46.3 N	124 16.5 W			DATE 09 FEB 71 0500 GCT WIRE					
DRY 45.8	WET 44.7	CRUISE C7102C			WIND DIRECTION 16 VEL 10 KTS				BAR 24	
SWELL DIRECTION 27 H 05 T 09					CLOUD 6 AMT 8			WEATHER 02		
	0	8.45			0	8.45				
	10	8.70			10	8.70				
	20	8.85			20	8.85				
	30	8.95			30	8.95				
	50	8.96			50	8.96				
	75	8.12			75	8.12				
	85	7.96								



CTI 3 44 46.3 N 124 16.5 W DATE 09 FEB 71 0555 GCT WIRE
DRY 45.8 WET 44.7 CRUISE C7102C WIND DIRECTION 16 VEL 10 KTS BAR 24
SWELL DIRECTION 27 H 05 T 09 CLOUD 6 AMT 8 WEATHER 02

0C	8.40	30.30	0	8.40	30.30	23.56	434.2	0
5C	8.36	30.28	10	8.36	30.60	23.81	411.4	.042
10C	8.36	30.60	20	8.30	30.82	23.91	401.3	.083
15C	8.50	30.73	30	8.75	30.94	24.01	392.0	.123
20C	8.80	30.82	50	9.00	31.90	24.72	324.4	.194
25C	8.75	30.86						
30C	8.75							
35C	8.82	31.12						
40C	8.85	31.44						
45C	8.95	31.75						
50C	9.00	31.90						

B 4 44 46.3 N 124 16.5 W DATE 09 FEB 71 0805 GCT WIRE
DRY WET CRUISE C7102C WIND DIRECTION 14 VEL 15 KTS BAR 23
SWELL DIRECTION 27 H 05 T 10 CLOUD 6 AMT 8 WEATHER 02

0	8.61	0	8.61
10	8.71	10	8.71
20	8.90	20	8.90
30	9.00	30	9.00
50	8.97	50	8.97
75	8.19	75	8.19
85	8.06		

NH 65 44 39.1 N 125 35.0 W DATE 07 MAR 71 2300 GCT WIRE
DRY 46.1 WET 43.2 CRUISE Y7103B WIND DIRECTION 30 VEL 16 KTS BAR 24
SWELL DIRECTION 32 H 08 T 08 CLOUD 6 AMT 5 WEATHER 01

0C	8.33	32.62	0	8.33	32.63	25.39	260.4	0
1C	8.33	32.62	10	8.34	32.60	25.37	262.2	.026
10C	8.34	32.60	20	8.34	32.59	25.36	263.3	.052
21C	8.34	32.59	30	8.34	32.61	25.38	261.8	.079
30C	8.34	32.61	50	8.34	32.58	25.36	264.3	.131
50C	8.34	32.58	75	8.34	32.60	25.37	263.2	.197
62C	8.34	32.59	100	8.05	33.44	26.07	197.5	.255
75C	8.34	32.60	150	7.61	33.83	26.44	163.4	.345
88C	8.31	33.11	200	7.03	33.90	26.57	150.8	.423
101C	8.02	33.46	250	6.32	33.94	26.70	139.1	.496
152C	7.60	33.84	300	5.68	33.91	26.76	133.8	.564
201C	7.02	33.90	400	5.07	34.04	26.93	118.2	.690
251C	6.31	33.94	500	4.58	34.14	27.06	106.0	.802
302C	5.66	33.91	600	4.49	34.22	27.14	99.7	.905
402C	5.06	34.04	700	4.16	34.30	27.24	90.3	1.000
504C	4.57	34.14	800	3.92	34.35	27.31	84.8	1.087
601C	4.49	34.22	1000	3.41	34.45	27.43	73.4	1.245
700C	4.15	34.30						
800C	3.92	34.35						
1000C	3.41	34.45						

NH 85 44 39.1 N 126 03.1 W DATE 08 MAR 71 0252 GCT WIRE
DRY 44.6 WET 41.7 CRUISE Y7103B WIND DIRECTION 29 VEL 10 KTS BAR 24
SWELL DIRECTION 31 H 09 T 09 CLOUD 8 AMT 7 WEATHER 03

0C	8.34	32.55	0	8.34	32.55	25.33	265.8	0
2C	8.34	32.55	10	8.34	32.55	25.33	265.9	.027
10C	8.34	32.55	20	8.35	32.54	25.32	267.2	.053
21C	8.35	32.54	30	8.35	32.54	25.32	267.1	.080
30C	8.35	32.54	50	8.34	32.54	25.32	267.6	.133
51C	8.34	32.54	75	8.39	33.17	25.81	221.6	.195
63C	8.34	32.55	100	8.11	33.55	26.15	189.8	.246
75C	8.39	33.17	150	7.59	33.83	26.44	162.5	.334
87C	8.30	33.43	200	6.84	33.92	26.62	146.6	.411
100C	8.11	33.55	250	6.26	33.93	26.70	139.0	.483
150C	7.59	33.83	300	5.91	33.98	26.79	131.1	.550
203C	6.79	33.92	400	5.33	34.08	26.94	117.7	.674
251C	6.25	33.93	500	4.85	34.15	27.04	108.2	.787
300C	5.90	33.98	600	4.57	34.25	27.15	98.5	.891
400C	5.33	34.08	700	4.31	34.32	27.24	90.7	.985
501C	4.85	34.15	800	4.08	34.39	27.32	84.1	1.073
603C	4.56	34.25						
700C	4.31	34.32						
802C	4.08	34.39						

NH 105 44 39.2 N 126 31.0 W DATE 08 MAR 71 0753 GCT WIRE
DRY 44.2 WET 39.0 CRUISE Y7103B WIND DIRECTION 23 VEL 10 KTS BAR 25
SWELL DIRECTION 30 H 07 T 06 CLOUD 6 AMT 8 WEATHER 03

0C	8.17	32.49	0	8.17	32.50	25.31	267.9	0
3C	8.17	32.49	10	8.15	32.53	25.34	264.7	.027
10C	8.15	32.53	20	8.14	32.53	25.35	264.8	.053
20C	8.14	32.53	30	8.14	32.53	25.34	265.2	.080
32C	8.14	32.53	50	8.13	32.54	25.36	264.3	.133
50C	8.13	32.54	75	8.12	32.54	25.36	264.6	.199
62C	8.13	32.53	100	7.88	33.23	25.93	210.2	.258
75C	8.12	32.54	150	7.69	33.73	26.35	171.5	.353
89C	8.00	32.85	200	7.06	33.89	26.56	151.9	.434
100C	7.87	33.23	250	6.57	33.92	26.66	143.3	.508
152C	7.68	33.75	300	6.18	33.95	26.73	137.1	.578
204C	7.00	33.88	400	5.57	34.02	26.86	125.0	.709
250C	6.56	33.92	500	5.10	34.05	26.94	118.6	.831
301C	6.17	33.95	600	4.69	34.15	27.07	106.9	.944
400C	5.56	34.02	700	4.32	34.26	27.19	95.3	1.045
502C	5.09	34.05	800	4.05	34.34	27.29	87.0	1.136
600C	4.69	34.15	1000	3.47	34.46	27.44	73.5	1.296
700C	4.32	34.26						
800C	4.05	34.34						
1004C	3.46	34.46						

NH 45 44 39.1 N 125 06.0 W DATE 08 MAR 71 1528 GCT WIRE
DRY 44.5 WET 40.0 CRUISE Y7103B WIND DIRECTION 20 VEL 10 KTS BAR 23
SWELL DIRECTION 26 H 06 T 08 CLOUD 8 AMT 4 WEATHER 03

0C	8.06	32.64	0	8.06	32.64	25.44	255.2	0
7C	8.06	32.64	10	8.06	32.63	25.43	256.8	.026
10C	8.06	32.62	20	8.06	32.61	25.42	257.7	.051
20C	8.06	32.61	30	8.06	32.60	25.41	258.8	.077
31C	8.06	32.60	50	8.07	32.60	25.41	259.3	.129
51C	8.07	32.60	75	8.06	32.59	25.40	260.4	.194
63C	8.07	32.59	100	7.90	33.28	25.97	206.7	.252
76C	8.06	32.59	150	7.67	33.84	26.44	162.7	.345
88C	7.90	32.91	200	6.96	33.96	26.63	145.7	.422

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
100C	7.89	33.28		250	6.57	33.96	26.69	140.5	.493
150C	7.66	33.84		300	5.97	34.00	26.79	131.2	.561
200C	6.96	33.95		400	5.32	34.04	26.90	121.0	.687
250C	6.57	33.96		500	4.68	34.13	27.05	107.3	.801
300C	5.97	33.99		600	4.63	34.21	27.12	102.1	.906
402C	5.31	34.04		700	4.27	34.31	27.23	91.5	1.003
500C	4.68	34.13							
601C	4.63	34.21							
702C	4.26	34.31							

NH 35 44 40.0 N 124 51.8 W DATE 08 MAR 71 1811 GCT WIRE
DRY 45.5 WET 41.0 CRUISE Y7103B WIND DIRECTION 20 VEL 04 KTS BAR 24
SWELL DIRECTION 26 H 06 T 09 CLOUD 6 AMT 8 WEATHER 03

25C	8.07	32.66	0	8.06	32.64	25.44	255.2	0
30C	8.07	32.66	10	8.06	32.63	25.43	256.8	.026
51C	8.07	32.65	20	8.06	32.61	25.42	257.7	.051
62C	8.07	32.64	30	8.07	32.67	25.46	254.3	.077
76C	8.06	32.71	50	8.07	32.65	25.45	255.6	.128
93C	7.93	33.30	75	8.06	32.69	25.48	252.6	.191
102C	7.96	33.54	100	7.95	33.51	26.14	190.8	.247
151C	7.61	33.85	150	7.62	33.84	26.45	162.2	.335
201C	6.98	33.93	200	6.99	33.93	26.60	147.9	.413
250C	6.53	34.00	250	6.54	34.00	26.72	137.0	.484
300C	6.04	34.02	300	6.05	34.02	26.80	129.8	.550
402C	5.31	34.12	400	5.32	34.12	26.97	115.2	.673

MSL 1 44 46.4 N 124 16.5 W DATE 09 MAR 71 0030 GCT WIRE
DRY WET CRUISE C7103C WIND DIRECTION 21 VEL 06 KTS BAR 21
SWELL DIRECTION 28 H 07 T 09 CLOUD 6 AMT 7 WEATHER 01

0	8.08	0	8.08
10	8.08	10	8.08
20	8.12	20	8.12
30	8.29	30	8.29
50	8.43	50	8.43
75	8.15	75	8.15
90	7.87		

MSL 2 44 46.4 N 124 16.5 W DATE 09 MAR 71 0720 GCT WIRE 00
DRY WET CRUISE C7103C WIND DIRECTION 17 VEL 13 KTS BAR 19
SWELL DIRECTION 28 H 07 T 09 CLOUD 3 AMT 7 WEATHER 00

0	8.05	0	8.05
10	8.07	10	8.07
20	8.23	20	8.23
30	8.20	30	8.20
50	8.30	50	8.30
75	8.35	75	8.35
90	8.18		

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

MSL 3 44 46.4 N 124 16.5 W DATE 09 MAR 71 1300 GCT WIRE 15
DRY WET CRUISE C7103C WIND DIRECTION 17 VEL 22 KTS BAR 18
SWELL DIRECTION 28 H 07 T 08 CLOUD 6 AMT 8 WEATHER 00

0	8.04			0	8.04			
10	8.04			10	8.04			
20	8.18			20	8.18			
30	8.23			30	8.23			
50	8.31			50	8.31			
75	8.39			75	8.39			
90	8.03							

NH 15 44 39.1 N 124 24.4 W DATE 09 MAR 71 0347 GCT WIRE
DRY 46.0 WET 42.8 CRUISE Y7103C WIND DIRECTION 22 VEL 05 KTS BAR 21
SWELL DIRECTION 28 H 06 T 08 CLOUD 6 AMT 8 WEATHER 02

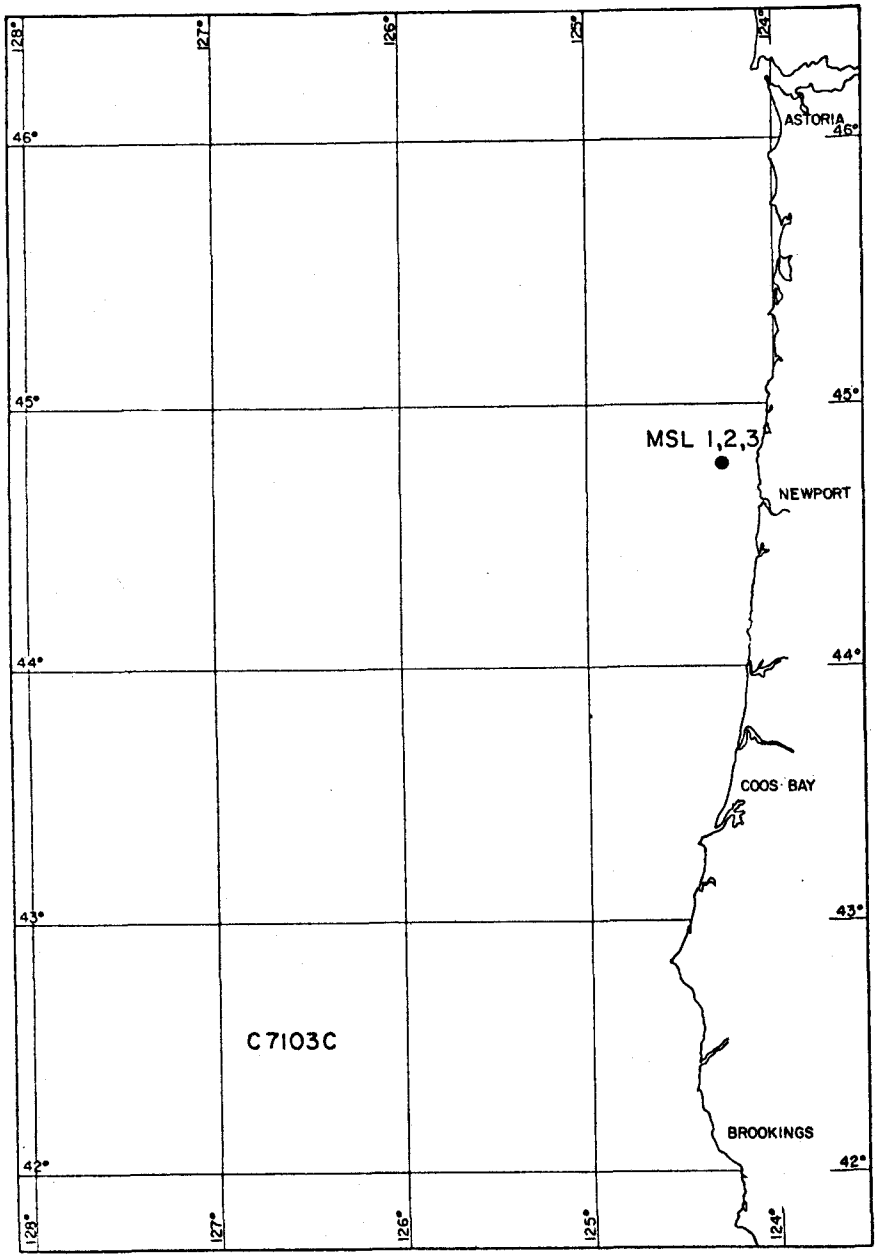
0C	8.28	32.58	0	8.28	32.58	25.36	262.7	0
1C	8.28	32.58	10	8.27	32.56	25.35	264.3	.026
11C	8.27	32.56	20	8.28	32.55	25.34	265.2	.053
20C	8.28	32.55	30	8.30	32.55	25.34	265.7	.079
30C	8.30	32.55	50	8.41	32.93	25.62	239.3	.130
50C	8.41	32.93						

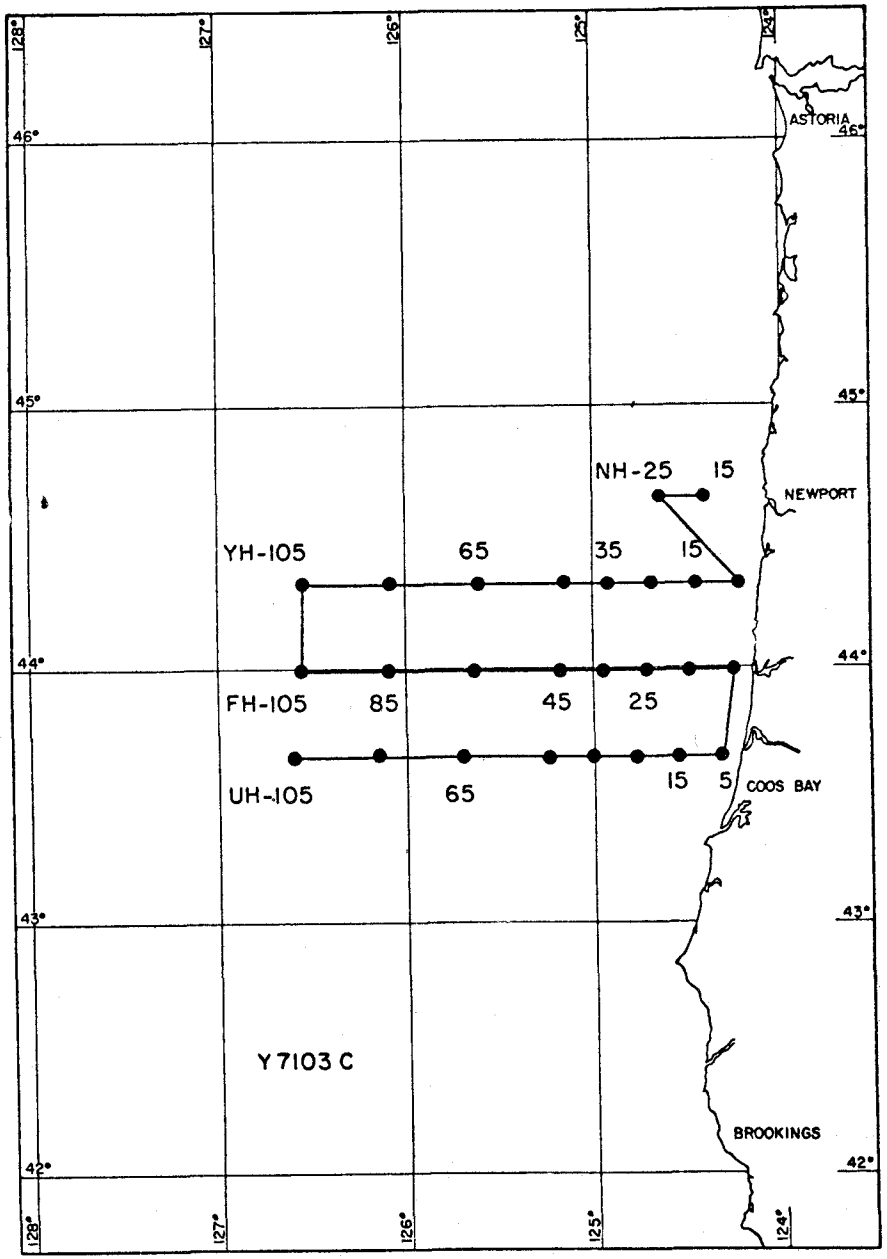
NH 25 44 39.1 N 124 38.5 W DATE 09 MAR 71 0505 GCT WIRE
DRY 45.2 WET 42.7 CRUISE Y7103C WIND DIRECTION 18 VEL 08 KTS BAR 20
SWELL DIRECTION 27 H 06 T 09 CLOUD 3 AMT 6 WEATHER 01

92C	8.27	33.50	0	8.28	32.58	25.36	262.7	0
101C	8.08	33.64	10	8.27	32.56	25.35	264.3	.026
121C	7.79	33.81	20	8.28	32.55	25.34	265.2	.053
155C	7.25	33.90	30	8.30	32.55	25.34	265.7	.079
201C	6.58	33.97	50	8.41	32.93	25.62	239.3	.130
			75	8.39	32.69	25.43	257.3	.192
			100	8.09	33.63	26.21	183.8	.247
			150	7.33	33.90	26.53	154.3	.332
			200	6.59	33.97	26.69	139.7	.405

YH 5 44 19.0 N 124 13.2 W DATE 09 MAR 71 0911 GCT WIRE
DRY 44.5 WET 43.2 CRUISE Y7103C WIND DIRECTION 18 VEL 14 KTS BAR 21
SWELL DIRECTION 27 H 06 T 07 CLOUD 3 AMT 8 WEATHER 02

0C	8.06	32.17	0	8.06	32.17	25.08	290.2	0
1C	8.06	32.17	10	8.08	32.20	25.09	288.9	.029
11C	8.08	32.20	20	8.10	32.21	25.09	288.8	.058
20C	8.10	32.20	30	8.11	32.21	25.10	288.3	.087
30C	8.11	32.21						


ASTORIA
MSL 1,2,3
NEWPORT
COOS BAY
BROOKINGS
C7103C


ASTORIA
NH-25
15
NEWPORT
YH-105
65
35
15
FH-105
85
45
25
UH-105
65
15
5
COOS BAY
Y7103C
BROOKINGS

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)

YH 15 44 19.0 N 124 27.1 W DATE 09 MAR 71 1115 GCT WIRE
DRY 47.0 WET 46.2 CRUISE Y7103C WIND DIRECTION 18 VEL 16 KTS BAR 20
SWELL DIRECTION 27 H 06 T 07 CLOUD 4 AMT 8 WEATHER 02

0C	8.01	32.35	0	8.01	32.35	25.22	276.1	0
2C	8.01	32.35	10	8.01	32.35	25.22	276.2	.028
10C	8.01	32.35	20	8.06	32.42	25.26	272.6	.055
20C	8.06	32.41	30	8.10	32.47	25.31	268.8	.082
30C	8.10	32.47	50	8.25	32.63	25.40	260.1	.135
50C	8.25	32.62						
62C	8.14	33.37						

YH 25 44 19.0 N 124 41.0 W DATE 09 MAR 71 1306 GCT WIRE
DRY 44.5 WET 44.1 CRUISE Y7103C WIND DIRECTION 19 VEL 24 KTS BAR 19
SWELL DIRECTION 27 H 06 T 08 CLOUD 6 AMT 8 WEATHER 60

0C	8.06	32.58	0	8.06	32.58	25.40	259.6	0
1C	8.06	32.58	10	8.07	32.58	25.39	260.2	.026
11C	8.07	32.58	20	8.07	32.59	25.40	259.7	.052
21C	8.07	32.59	30	8.06	32.60	25.41	259.2	.078
32C	8.06	32.60	50	8.18	32.71	25.47	253.1	.129
50C	8.18	32.70	75	7.96	33.52	26.15	189.5	.184
64C	8.31	33.10						
75C	7.96	33.52						

YH 35 44 19.0 N 124 55.2 W DATE 09 MAR 71 1510 GCT WIRE
DRY 45.9 WET 44.9 CRUISE Y7103C WIND DIRECTION 18 VEL 26 KTS BAR 18
SWELL DIRECTION 22 H 06 T 08 CLOUD 6 AMT 8 WEATHER 63

0C	8.02	32.60	0	8.02	32.60	25.42	257.6	0
3C	8.02	32.60	10	8.02	32.59	25.41	258.7	.026
11C	8.02	32.59	20	8.01	32.60	25.42	258.1	.052
21C	8.01	32.60	30	8.01	32.59	25.41	258.6	.077
30C	8.01	32.59	50	7.99	32.60	25.42	257.9	.129
50C	7.99	32.60	75	8.16	32.85	25.59	242.3	.192
62C	7.99	32.60	100	7.96	33.62	26.22	182.9	.245
76C	8.18	32.88	150	7.24	33.92	26.56	151.7	.328
87C	8.46	33.28	200	6.86	33.96	26.65	143.6	.402
101C	7.91	33.64	250	6.48	34.00	26.73	136.8	.472
150C	7.24	33.91	300	6.25	34.03	26.78	132.2	.539
200C	6.86	33.96	400	5.32	34.13	26.98	113.8	.662
252C	6.47	34.00	500	4.75	34.23	27.12	101.2	.770
301C	6.25	34.03						
400C	5.31	34.13						
503C	4.74	34.23						

YH 45 44 19.1 N 125 09.2 W DATE 09 MAR 71 1752 GCT WIRE
DRY 47.3 WET 46.1 CRUISE Y7103C WIND DIRECTION 18 VEL 23 KTS BAR 18
SWELL DIRECTION 26 H 06 T 09 CLOUD 6 AMT 8 WEATHER 02

0C	8.34	32.56	0	8.34	32.56	25.34	265.0	0
1C	8.34	32.56	10	8.34	32.56	25.34	265.2	.027
10C	8.34	32.56	20	8.34	32.57	25.34	265.1	.053
22C	8.34	32.57	30	8.34	32.58	25.35	264.4	.079
31C	8.34	32.58	50	8.34	32.58	25.35	264.6	.132

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)

YH 105 44 19.0 N 126 32.5 W DATE 10 MAR 71 0643 GCT WIRE
DRY 49.6 WET 49.2 CRUISE Y7103C WIND DIRECTION 18 VEL 16 KTS BAR 13
SWELL DIRECTION 26 H 06 T 08 CLOUD 7 AMT 8 WEATHER 03

0C	8.48	32.56	0	8.48	32.56	25.32	267.0	0
7C	8.48	32.56	10	8.48	32.55	25.31	268.0	.027
11C	8.48	32.55	20	8.47	32.56	25.32	267.2	.054
20C	8.47	32.56	30	8.42	32.56	25.33	266.9	.080
31C	8.41	32.56	50	8.41	32.55	25.32	267.8	.134
51C	8.41	32.55	75	8.40	32.58	25.35	265.6	.200
62C	8.41	32.57	100	8.13	33.43	26.05	199.0	.258
75C	8.40	32.58	150	7.43	33.81	26.45	161.9	.349
87C	8.38	32.71	200	6.83	33.93	26.63	145.8	.425
100C	8.13	33.43	250	6.10	33.93	26.72	137.0	.496
151C	7.42	33.82	300	5.63	33.94	26.79	131.0	.563
201C	6.82	33.93	400	5.26	34.05	26.92	119.4	.688
253C	6.06	33.93	500	4.71	34.16	27.07	105.9	.801
301C	5.62	33.94	600	4.34	34.24	27.17	96.5	.902
406C	5.25	34.06	700	4.13	34.28	27.23	91.5	.996
502C	4.70	34.16	800	3.86	34.35	27.31	84.1	1.084
602C	4.33	34.24	1000	3.36	34.47	27.45	71.4	1.239
700C	4.12	34.28						
800C	3.86	34.35						
1003C	3.35	34.47						

FH 105 43 59.1 N 126 33.5 W DATE 10 MAR 71 1040 GCT WIRE
DRY 49.4 WET 49.4 CRUISE Y7103C WIND DIRECTION 18 VEL 20 KTS BAR 10
SWELL DIRECTION 29 H 06 T 07 CLOUD 6 AMT 8 WEATHER 61

0C	8.80	32.68	0	8.80	32.68	25.36	262.7	0
3C	8.80	32.68	10	8.80	32.67	25.35	263.8	.026
11C	8.80	32.67	20	8.80	32.67	25.35	264.1	.053
23C	8.80	32.67	30	8.78	32.64	25.33	266.2	.079
32C	8.77	32.63	50	8.69	32.64	25.34	265.5	.132
52C	8.68	32.64	75	8.60	32.65	25.37	263.5	.199
62C	8.66	32.65	100	8.62	33.20	25.79	223.7	.259
76C	8.59	32.65	150	8.01	33.75	26.32	174.3	.359
90C	8.51	32.78	200	7.41	33.92	26.53	154.6	.441
102C	8.65	33.29	250	6.94	33.97	26.65	144.5	.516
150C	8.01	33.75	300	6.10	33.94	26.73	136.8	.586
200C	7.40	33.91	400	5.24	34.02	26.90	121.1	.715
250C	6.93	33.97	500	4.54	34.09	27.04	108.7	.830
301C	6.08	33.94	600	4.37	34.24	27.17	96.9	.933
400C	5.24	34.02	700	3.90	34.27	27.24	90.1	1.026
506C	4.51	34.10	800	3.84	34.36	27.33	83.0	1.113
601C	4.37	34.24	1000	3.42	34.48	27.46	71.3	1.267
701C	3.90	34.27						
800C	3.83	34.36						
1001C	3.42	34.48						

FH 85 43 59.1 N 126 05.7 W DATE 11 MAR 71 0227 GCT WIRE
DRY 49.5 WET 47.8 CRUISE Y7103C WIND DIRECTION 24 VEL 20 KTS BAR 13
SWELL DIRECTION 26 H 07 T 06 CLOUD 3 AMT 5 WEATHER 01

0C	8.95	32.66	0	8.95	32.67	25.33	266.4	0
3C	8.95	32.66	10	8.95	32.66	25.32	266.9	.027

51C	8.34	32.58	75	8.39	32.67	25.42	258.8	.198
67C	8.33	32.58	100	8.28	33.54	26.12	193.0	.254
75C	8.39	32.67	150	7.45	33.90	26.52	155.3	.341
87C	8.38	33.41	200	6.99	33.95	26.62	146.6	.417
100C	8.28	33.54	250	6.58	33.99	26.71	138.7	.488
150C	7.45	33.90	300	6.04	34.03	26.81	129.0	.555
202C	6.98	33.95	400	5.39	34.12	26.96	115.9	.677
251C	6.57	33.99						
300C	6.03	34.03						
401C	5.39	34.12						

YH 65 44 19.0 N 125 36.7 W DATE 09 MAR 71 2315 GCT WIRE
DRY 50.9 WET 48.2 CRUISE Y7103C WIND DIRECTION 22 VEL 10 KTS BAR 18
SWELL DIRECTION 26 H 07 T 07 CLOUD 8 AMT 7 WEATHER 01

0C	8.64	32.63	0	8.64	32.63	25.35	264.1	0
1C	8.64	32.63	10	8.64	32.63	25.35	264.3	.026
10C	8.64	32.63	20	8.63	32.63	25.35	264.3	.053
20C	8.63	32.63	30	8.63	32.64	25.36	264.1	.079
31C	8.63	32.64	50	8.63	32.63	25.35	264.8	.132
50C	8.63	32.63	75	8.64	32.63	25.35	265.3	.198
62C	8.63	32.64	100	8.08	33.42	26.05	199.6	.256
75C	8.64	32.63	150	8.01	33.86	26.41	166.2	.348
88C	8.32	33.14	200	6.91	33.84	26.54	153.7	.428
102C	8.05	33.45	250	6.08	33.88	26.69	140.2	.501
150C	8.01	33.86	300	5.93	33.96	26.76	133.5	.570
203C	6.83	33.83	400	5.36	34.03	26.89	122.1	.697
254C	6.04	33.89	500	4.95	34.15	27.03	109.5	.813
303C	5.92	33.96	600	4.62	34.24	27.14	100.0	.918
401C	5.35	34.03	700	4.36	34.30	27.22	93.2	1.014
501C	4.95	34.15	800	4.08	34.38	27.31	85.2	1.104
605C	4.61	34.24	1000	3.54	34.49	27.45	72.0	1.261
701C	4.36	34.30						
800C	4.08	34.37						
1001C	3.54	34.49						

YH 85 44 19.0 N 126 04.8 W DATE 10 MAR 71 0300 GCT WIRE
DRY 48.7 WET 47.6 CRUISE Y7103C WIND DIRECTION 18 VEL 12 KTS BAR 16
SWELL DIRECTION 26 H 06 T CLOUD 8 AMT 4 WEATHER 01

0C	8.49	32.54	0	8.49	32.54	25.30	268.7	0
2C	8.49	32.54	10	8.49	32.49	25.26	273.1	.027
11C	8.49	32.48	20	8.46	32.54	25.30	268.8	.054
21C	8.46	32.55	30	8.42	32.55	25.32	267.4	.081
30C	8.42	32.55	50	8.41	32.57	25.33	266.5	.134
53C	8.41	32.57	75	8.41	32.58	25.34	266.0	.201
62C	8.41	32.56	100	8.00	33.31	25.98	206.0	.260
77C	8.41	32.59	150	7.41	33.78	26.43	163.5	.352
88C	8.41	32.71	200	6.82	33.88	26.59	148.9	.430
100C	8.00	33.31	250	6.16	33.90	26.69	140.0	.503
150C	7.40	33.78	300	5.56	33.92	26.79	131.2	.570
200C	6.81	33.88	400	4.80	34.01	26.94	116.7	.694
251C	6.15	33.90	500	4.54	34.13	27.06	106.5	.806
300C	5.55	33.92	600	4.40	34.21	27.14	99.4	.909
403C	4.80	34.01	700	4.14	34.30	27.25	90.1	1.003
500C	4.54	34.12	800	3.88	34.39	27.34	81.7	1.089
601C	4.40	34.21	1000	3.36	34.46	27.45	72.1	1.243
700C	4.13	34.30						
802C	3.87	34.39						
1003C	3.35	34.46						

11C	8.95	32.66	20	8.97	32.64	25.31	268.7	.053
21C	8.97	32.64	30	8.95	32.65	25.32	267.7	.080
30C	8.95	32.65	50	8.97	32.67	25.32	267.6	.134
50C	8.97	32.66	75	8.98	32.66	25.32	268.4	.201
62C	8.97	32.66	100	8.87	33.21	25.76	226.9	.263
76C	8.98	32.66	150	8.15	33.78	26.32	174.1	.363
88C	9.02	32.73	200	7.46	33.86	26.49	159.2	.446
100C	8.87	33.20	250	6.65	33.89	26.62	146.6	.523
150C	8.15	33.78	300	5.96	33.92	26.73	136.7	.593
204C	7.40	33.87	400	4.98	34.00	26.92	119.5	.721
250C	6.64	33.89	500	4.55	34.08	27.03	109.5	.836
301C	5.95	33.92	600	4.30	34.16	27.12	101.7	.942
400C	4.98	34.00	700	4.23	34.32	27.24	90.4	1.038
500C	4.55	34.08	800	3.97	34.36	27.31	84.6	1.125
607C	4.29	34.17	1000	3.37	34.47	27.45	71.6	1.281
703C	4.23	34.32						
800C	3.97	34.36						
1003C	3.36	34.47						

FH 65 43 58.9 N 125 38.3 W DATE 11 MAR 71 0643 GCT WIRE
DRY 49.1 WET 48.4 CRUISE Y7103C WIND DIRECTION 18 VEL 14 KTS BAR 15
SWELL DIRECTION 25 H 06 T 07 CLOUD 8 AMT 6 WEATHER 03

0C	8.61	32.58	0	8.61	32.58	25.32	267.4	0
3C	8.61	32.58	10	8.61	32.59	25.32	266.9	.027
13C	8.61	32.60	20	8.61	32.60	25.33	266.5	.053
21C	8.61	32.60	30	8.62	32.59	25.32	267.3	.080
30C	8.62	32.59	50	8.62	32.58	25.31	268.4	.134
50C	8.62	32.58	75	8.69	32.61	25.33	267.6	.201
62C	8.62	32.59	100	8.25	33.42	26.03	201.4	.259
76C	8.70	32.62	150	8.12	33.81	26.35	171.5	.352
88C	8.69	32.82	200	7.22	33.93	26.57	151.1	.433
100C	8.25	33.42	250	6.58	33.92	26.65	143.8	.507
150C	8.12	33.81	300	5.82	33.92	26.75	134.5	.576
204C	7.14	33.93	400	5.13	34.04	26.93	118.8	.703
252C	6.56	33.92	500	4.70	34.15	27.06	106.5	.815
300C	5.82	33.92	600	4.58	34.23	27.14	100.0	.919
401C	5.13	34.04	700	4.30	34.33	27.25	89.8	1.014
502C	4.69	34.15	800	4.04	34.40	27.34	82.5	1.100
601C	4.58	34.23	1000	3.58	34.46	27.43	74.5	1.257
700C	4.30	34.33						
800C	4.04	34.40						
1003C	3.57	34.46						

FH 45 43 59.0 N 125 10.7 W DATE 11 MAR 71 1023 GCT WIRE
DRY 48.1 WET 46.7 CRUISE Y7103C WIND DIRECTION 18 VEL 14 KTS BAR 13
SWELL DIRECTION 28 H 06 T 08 CLOUD 6 AMT 8 WEATHER 03

0C	8.59	32.59	0	8.59	32.59	25.33	266.4	0
1C	8.59	32.59	10	8.59	32.57	25.31	268.2	.027
11C	8.59	32.57	20	8.59	32.61	25.34	265.8	.053
21C	8.59	32.61	30	8.59	32.61	25.34	265.4	.080
30C	8.59	32.61	50	8.59	32.61	25.34	265.7	.133
50C	8.59	32.61	75	8.59	32.66	25.38	262.8	.199
62C	8.60	32.60	100	8.45	33.45	26.02	202.3	.257
80C	8.58	32.68	150	7.55	33.81	26.43	163.9	.349
90C	8.55	33.25	200	6.96	33.93	26.61	147.2	.427
102C	8.43	33.47	250	6.42	34.00	26.74	135.4	.497
153C	7.49	33.81	300	6.09	34.05	26.82	128.8	.563
200C	6.96	33.93	400	5.53	34.10	26.93	119.1	.687
250C	6.41	34.00	500	5.09	34.17	27.03	109.6	.801
305C	6.06	34.05	600	4.67	34.26	27.15	98.9	.906

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
402C	5.52	34.10		700	4.39	34.30	27.21	93.5	1.002
502C	5.08	34.17		800	3.99	34.36	27.31	84.9	1.091
602C	4.66	34.26		1000	3.54	34.49	27.45	72.0	1.248
701C	4.39	34.30							
803C	3.99	34.36							
1001C	3.54	34.49							

FH 35 43 59.0 N 124 56.9 W DATE 11 MAR 71 1316 GCT WIRE
DRY 47.7 WET 46.9 CRUISE Y7103C WIND DIRECTION 15 VEL 20 KTS BAR 10
SWELL DIRECTION 28 H 06 T 08 CLOUD 6 AMT 8 WEATHER 62

0C	8.38	32.57	0	8.38	32.57	25.34	264.9	0
1C	8.38	32.57	10	8.38	32.56	25.33	265.9	.027
12C	8.38	32.56	20	8.37	32.56	25.33	266.1	.053
22C	8.37	32.56	30	8.36	32.56	25.34	265.8	.080
33C	8.36	32.56	50	8.36	32.59	25.36	263.9	.133
50C	8.36	32.59	75	8.13	33.32	25.97	206.7	.191
62C	8.34	32.67	100	7.63	33.77	26.39	166.5	.238
75C	8.13	33.32						
83C	7.84	33.63						
100C	7.62	33.77						

FH 25 43 59.0 N 124 42.8 W DATE 11 MAR 71 1500 GCT WIRE
DRY 47.6 WET 47.2 CRUISE Y7103C WIND DIRECTION 15 VEL 20 KTS BAR 07
SWELL DIRECTION 28 H 06 T 08 CLOUD AMT 9 WEATHER 61

0C	8.29	32.41	0	8.29	32.42	25.23	275.5	0
3C	8.29	32.41	10	8.29	32.42	25.23	275.6	.028
10C	8.29	32.41	20	8.31	32.46	25.27	272.4	.055
20C	8.31	32.46	30	8.32	32.53	25.32	267.5	.082
30C	8.32	32.53	50	8.33	32.58	25.36	264.2	.135
50C	8.33	32.58						
62C	8.40	33.04						

FH 15 43 59.0 N 124 29.1 W DATE 12 MAR 71 1600 GCT WIRE
DRY 44.9 WET 44.2 CRUISE Y7103C WIND DIRECTION 22 VEL 18 KTS BAR 00
SWELL DIRECTION 25 H 10 T CLOUD AMT 9 WEATHER 62

0C	8.32	32.49	0	8.32	32.50	25.29	270.0	0
3C	8.32	32.49	10	8.32	32.51	25.30	268.6	.027
10C	8.32	32.51	20	8.33	32.50	25.29	269.8	.054
21C	8.33	32.50	30	8.34	32.49	25.28	270.9	.081
33C	8.34	32.49	50	8.40	32.55	25.32	267.4	.135
50C	8.40	32.55	75	8.39	32.65	25.40	260.2	.201
62C	8.39	32.56						
75C	8.39	32.65						
88C	8.37	33.02						

FH 5 43 59.0 N 124 15.2 W DATE 12 MAR 71 1752 GCT WIRE
DRY 46.2 WET 44.5 CRUISE Y7103C WIND DIRECTION 09 VEL 10 KTS BAR 98
SWELL DIRECTION 26 H 18 T 11 CLOUD 6 AMT 8 WEATHER 02

0C	8.30	32.41	0	8.30	32.42	25.23	275.6	0
3C	8.30	32.41	10	8.32	32.42	25.23	275.7	.028

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)

SWELL DIRECTION 28 H 12 T 08 CLOUD 8 AMT 7 WEATHER 02

0C	8.55	32.55	0	8.55	32.55	25.30	268.8	0
3C	8.55	32.55	10	8.55	32.55	25.30	269.2	.027
11C	8.55	32.55	20	8.55	32.54	25.29	270.1	.054
21C	8.55	32.54	30	8.55	32.54	25.29	270.3	.081
31C	8.55	32.54	50	8.56	32.56	25.30	269.5	.135
52C	8.56	32.56	75	8.46	32.95	25.63	239.1	.198
63C	8.55	32.59	100	8.15	33.51	26.11	193.3	.252
80C	8.41	33.12	150	7.46	33.90	26.52	155.4	.340
88C	8.32	33.24	200	6.98	33.93	26.60	147.8	.415
100C	8.15	33.51	250	6.44	33.97	26.71	138.5	.487
150C	7.46	33.90	300	6.03	34.03	26.81	128.8	.554
203C	6.95	33.93	400	5.28	34.14	26.99	112.6	.674
252C	6.42	33.97	500	4.82	34.18	27.07	105.7	.783
300C	6.02	34.03	600	4.56	34.26	27.16	97.7	.885
400C	5.27	34.14	700	4.15	34.35	27.28	86.9	.977
506C	4.80	34.18						
603C	4.55	34.26						
700C	4.15	34.35						

UH 45 43 38.8 N 125 14.5 W DATE 13 MAR 71 1204 GCT WIRE
DRY 45.3 WET 41.7 CRUISE Y7103C WIND DIRECTION 27 VEL 14 KTS BAR 12
SWELL DIRECTION 28 H 12 T 07 CLOUD 8 AMT 6 WEATHER 60

0C	8.59	32.62	0	8.59	32.63	25.35	264.1	0
1C	8.59	32.62	10	8.61	32.62	25.34	264.9	.026
11C	8.61	32.62	20	8.62	32.63	25.35	264.1	.053
23C	8.62	32.64	30	8.62	32.65	25.37	262.8	.079
30C	8.62	32.65	50	8.62	32.64	25.36	263.9	.132
50C	8.62	32.64	75	8.69	32.72	25.41	259.4	.197
62C	8.62	32.63	100	8.19	33.47	26.07	196.9	.254
75C	8.69	32.72	150	7.40	33.86	26.50	157.6	.343
88C	8.73	33.34	200	6.85	33.97	26.66	142.7	.418
100C	8.19	33.47	250	6.45	34.00	26.74	135.9	.488
151C	7.40	33.87	300	6.00	34.05	26.83	127.5	.553
200C	6.85	33.97	400	5.41	34.08	26.92	119.1	.677
250C	6.45	34.00	500	4.87	34.19	27.07	105.6	.789
301C	5.99	34.05	600	4.55	34.27	27.17	96.9	.890
401C	5.41	34.08	700	4.30	34.33	27.25	90.3	.984
502C	4.86	34.19	800	4.04	34.42	27.34	81.7	1.070
605C	4.54	34.27	1000	3.54	34.49	27.45	71.9	1.223
702C	4.30	34.33						
800C	4.04	34.41						
1001C	3.54	34.49						

UH 65 43 39.0 N 125 42.0 W DATE 13 MAR 71 1602 GCT WIRE
DRY 45.3 WET 43.1 CRUISE Y7103C WIND DIRECTION 27 VEL 16 KTS BAR 15
SWELL DIRECTION 27 H 08 T 08 CLOUD 8 AMT 2 WEATHER 01

0C	8.58	32.59	0	8.58	32.59	25.33	266.2	0
3C	8.58	32.59	10	8.57	32.60	25.33	266.2	.027
13C	8.57	32.60	20	8.58	32.62	25.35	264.6	.053
25C	8.58	32.63	30	8.58	32.62	25.35	264.5	.080
32C	8.58	32.62	50	8.56	32.63	25.36	264.3	.132
52C	8.56	32.63	75	8.58	32.65	25.37	263.0	.198

11C	8.32	32.42	20	8.32	32.44	25.25	274.0	.055
20C	8.32	32.44	30	8.32	32.46	25.26	273.4	.082
30C	8.32	32.45	50	8.34	32.48	25.28	271.8	.137
50C	8.34	32.48						

UH 5 43 39.1 N 124 19.7 W DATE 12 MAR 71 2058 GCT WIRE
DRY 46.0 WET 44.5 CRUISE Y7103C WIND DIRECTION 14 VEL 16 KTS BAR 96

SWELL DIRECTION 26 H 15 T 09 CLOUD 6 AMT 8 WEATHER 10

0C	8.28	32.15	0	8.28	32.15	25.03	294.7	0
3C	8.28	32.15	10	8.27	32.17	25.04	293.8	.029
11C	8.27	32.17	20	8.26	32.19	25.06	291.8	.059
25C	8.26	32.21	30	8.28	32.23	25.09	289.5	.088
33C	8.29	32.24	50	8.30	32.27	25.12	286.8	.145
50C	8.30	32.27	75	8.34	32.40	25.22	278.1	.216
62C	8.32	32.30						
75C	8.34	32.40						

UH 15 43 39.2 N 124 33.2 W DATE 12 MAR 71 2235 GCT WIRE
DRY 46.9 WET 45.2 CRUISE Y7103C WIND DIRECTION 12 VEL 16 KTS BAR 94
SWELL DIRECTION 26 H 15 T CLOUD 6 AMT 8 WEATHER 62

0C	8.53	32.41	0	8.53	32.42	25.19	278.9	0
1C	8.53	32.41	10	8.53	32.43	25.21	277.6	.028
10C	8.53	32.43	20	8.53	32.44	25.22	277.0	.056
20C	8.53	32.44	30	8.53	32.45	25.22	276.8	.083
31C	8.53	32.45	50	8.54	32.46	25.23	276.4	.139
51C	8.54	32.46	75	8.58	32.50	25.25	274.9	.207
62C	8.56	32.47	100	8.13	33.50	26.11	193.8	.266
75C	8.58	32.49	150	7.31	33.93	26.56	151.5	.352
87C	8.41	32.99						
101C	8.11	33.54						
150C	7.31	33.93						

UH 25 43 38.8 N 124 46.7 W DATE 13 MAR 71 0656 GCT WIRE
DRY 47.0 WET 44.2 CRUISE Y7103C WIND DIRECTION 30 VEL 18 KTS BAR 08
SWELL DIRECTION 27 H 09 T 10 CLOUD 6 AMT 8 WEATHER 02

0C	8.36	32.48	0	8.36	32.48	25.27	271.3	0
3C	8.36	32.48	10	8.35	32.49	25.28	270.5	.027
13C	8.34	32.50	20	8.34	32.49	25.28	270.7	.054
21C	8.34	32.49	30	8.36	32.47	25.27	272.5	.081
33C	8.36	32.47	50	8.36	32.46	25.26	273.5	.136
50C	8.36	32.46	75	8.37	32.78	25.50	250.7	.201
63C	8.36	32.52	100	8.08	33.58	26.18	187.1	.256
76C	8.37	32.81	150	7.43	33.92	26.54	153.4	.341
88C	8.15	33.36	200	6.70	33.95	26.66	142.6	.415
100C	8.08	33.58	250	6.20	34.00	26.77	132.7	.484
150C	7.42	33.92	300	5.85	34.02	26.83	127.5	.549
202C	6.67	33.95	400	5.30	34.11	26.96	115.5	.670
250C	6.20	34.00						
300C	5.85	34.02						
400C	5.30	34.11						

UH 35 43 39.2 N 125 00.5 W DATE 13 MAR 71 0938 GCT WIRE
DRY 45.1 WET 41.1 CRUISE Y7103C WIND DIRECTION 27 VEL 14 KTS BAR 11

66C	8.55	32.63	100	8.62	33.48	26.01	202.8	.257
75C	8.58	32.65	150	7.88	33.82	26.39	167.9	.349
88C	8.62	33.33	200	7.22	33.94	26.58	149.9	.429
101C	8.62	33.45	250	6.76	33.98	26.68	141.4	.501
151C	7.86	33.82	300	6.32	34.02	26.76	133.8	.570
200C	7.22	33.94	400	5.71	34.09	26.89	122.2	.698
250C	6.75	33.98	500	5.17	34.15	27.01	112.1	.815
301C	6.31	34.02	600	4.73	34.27	27.15	98.9	.921
403C	5.70	34.09	700	4.44	34.32	27.23	92.6	1.016
502C	5.16	34.15	800	4.19	34.39	27.31	85.0	1.105
601C	4.73	34.27	1000	3.51	34.45	27.42	74.6	1.265
701C	4.44	34.32						
800C	4.19	34.39						
1001C	3.51	34.45						

UH 85 43 39.5 N 126 09.0 W DATE 13 MAR 71 2006 GCT WIRE
DRY 49.0 WET 45.2 CRUISE Y7103C WIND DIRECTION 21 VEL 12 KTS BAR 16

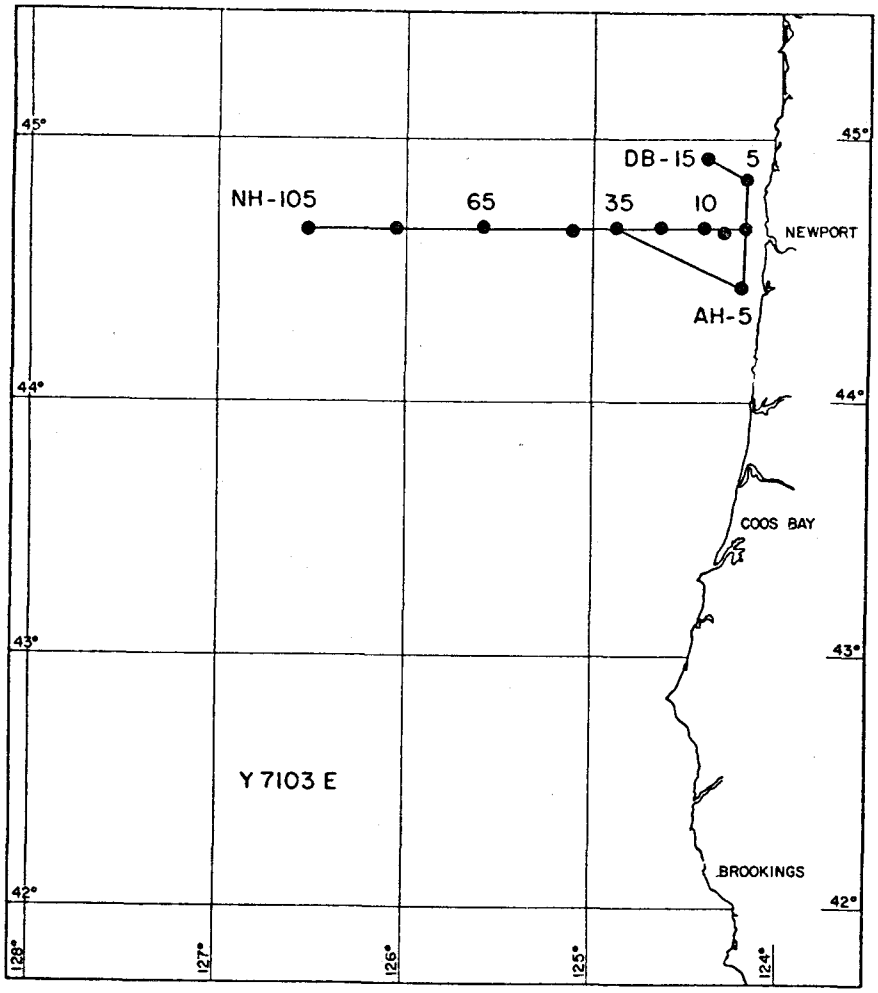
SWELL DIRECTION 29 H 07 T 08 CLOUD 8 AMT 4 WEATHER 03

0C	8.77	32.65	0	8.77	32.65	25.35	264.5	0
3C	8.77	32.65	10	8.77	32.64	25.34	265.6	.027
11C	8.77	32.64	20	8.73	32.65	25.35	264.7	.053
21C	8.73	32.65	30	8.73	32.65	25.35	264.4	.079
30C	8.73	32.65	50	8.72	32.65	25.35	264.6	.132
50C	8.72	32.65	75	8.73	32.65	25.35	265.5	.199
64C	8.73	32.65	100	8.66	33.29	25.86	217.1	.259
76C	8.73	32.65	150	8.39	33.75	26.26	180.6	.358
88C	8.76	32.68	200	7.55	33.92	26.51	156.6	.443
100C	8.66	33.29	250	6.68	33.93	26.65	144.0	.518
150C	8.39	33.74	300	6.18	33.95	26.73	137.1	.588
200C	7.54	33.91	400	4.97	34.01	26.92	119.1	.716
250C	6.67	33.93	500	4.37	34.05	27.02	110.1	.831
301C	6.17	33.95	600	4.40	34.21	27.14	99.5	.935
402C	4.95	34.01	700	4.27	34.30	27.23	91.7	1.031
502C	4.36	34.05	800	3.97	34.36	27.31	85.1	1.119
601C	4.40	34.21	1000	3.47	34.49	27.46	71.2	1.275
708C	4.25	34.31						
804C	3.96	34.36						
1001C	3.47	34.49						

UH 105 43 39.0 N 126 36.2 W DATE 13 MAR 71 2331 GCT WIRE
DRY 47.5 WET 43.9 CRUISE Y7103C WIND DIRECTION 18 VEL 24 KTS BAR 14
SWELL DIRECTION 28 H 10 T 07 CLOUD 8 AMT 8 WEATHER 03

0C	8.95	32.66	0	8.95	32.67	25.33	266.4	0
3C	8.95	32.66	10	8.95	32.66	25.32	266.9	.027
11C	8.95	32.66	20	8.95	32.65	25.32	267.7	.053
21C	8.95	32.65	30	8.95	32.65	25.31	268.0	.080
31C	8.95	32.65	50	8.92	32.66	25.33	267.3	.134
55C	8.91	32.66	75	8.91	32.67	25.33	266.8	.200
62C	8.91	32.65	100	8.90	32.84	25.47	254.0	.266
76C	8.91	32.67	150	8.10	33.72	26.28	178.4	.374
90C	8.94	32.66	200	7.41	33.88	26.50	157.6	.458
102C	8.89	32.89	250	6.82	33.92	26.62	146.7	.534
151C	8.08	33.73	300	6.05	33.96	26.75	135.0	.604
200C	7.40	33.87	400	5.34	34.03	26.90	121.6	.732
250C	6.82	33.92	500	4.84	34.09	27.00	112.2	.849
300C	6.04	33.95	600	4.31	34.17	27.12	101.4	.956

OBSERVED										INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
400C	5.34	34.03								700	3.91	34.26	27.23	91.2	1.052
500C	4.84	34.09								800	3.78	34.34	27.31	84.4	1.140
601C	4.31	34.17								1000	3.36	34.47	27.45	71.4	1.296
704C	3.90	34.26													
802C	3.78	34.34													
1001C	3.36	34.47													

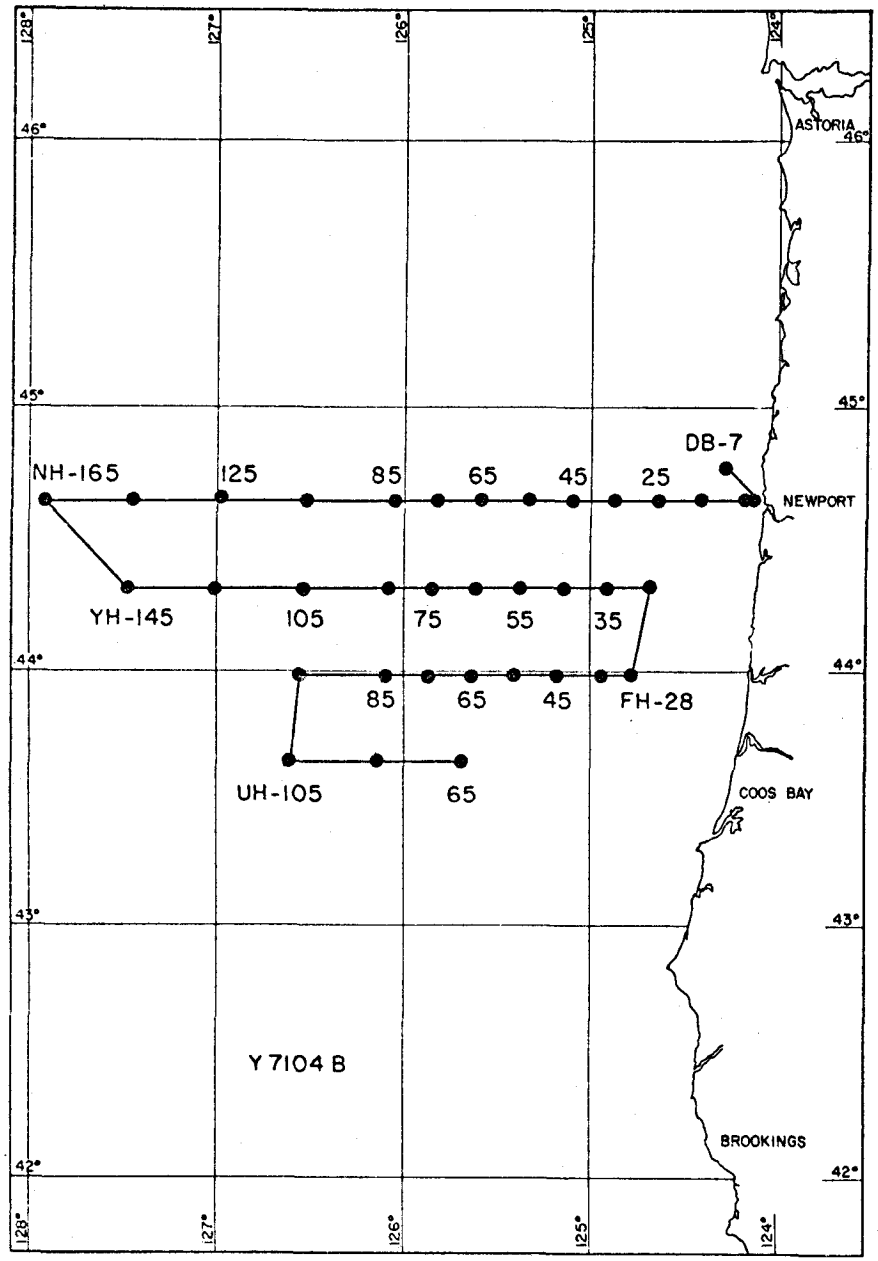


NH 45 44 38.5 N 125 06.1 W DATE 28 MAR 71 2346 GCT WIRE 02 DRY 49.3 WET 48.5 CRUISE Y7103E
WIND DIRECTION 18 VEL 18 KTS BAR 26 SWELL DIRECTION27 H 06 T 06 CLOUD 8 AMT 8 WEATHER 02

2	8.17	6.67	.97	6.7	12	0	0
20	8.18	6.67	.96	7.7	11	10	8.18
30	8.16	6.67				20	8.18
50	8.08	6.68		6.8	10	30	8.16
74	8.08	6.08	1.15	11.5	15	50	8.08
100	7.98	4.00	1.87	22.5	29	75	8.08
150	7.28	2.58	2.49	32.1	45	100	7.98
200	6.49	1.96	2.67	34.3	57	150	7.29
250	6.12	1.79	2.84	35.9	62	200	6.49
275	6.00	1.63	2.91	36.8	66	250	6.13
300	5.85	1.47	2.95	36.9	68	300	5.85
325	5.71	1.30	2.97	37.5	71	400	5.46
350	5.64	1.26	3.09	37.2	73	500	4.94
375	5.53	1.14	3.14	37.7	74	600	4.70
400	5.46	1.03	3.20	37.1	77		
500	4.94	.75	3.30	39.2	89		
600	4.70	.49	3.60	40.5	91		

	OBSERVED									INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
NH 65 44 39.5 N 125 35.0 W DATE 29 MAR 71 0605 GCT WIRE 01 DRY 48.5 WET 48.1 CRUISE Y7103E															
WIND DIRECTION 19 VEL 18 KTS BAR 24 SWELL DIRECTION27 H 07 T 08 CLOUD AMT 9 WEATHER 47															
0	8.10	0	6.81	.67				5.1	9	0	8.10	0			
20	8.11	32.538	6.81	.74				5.0	8	10	8.11	0			
30	8.11	32.538	6.83	.76	8.152	2.280		5.2	8	20	8.11	32.54			
49	8.05	32.534	6.79	.74	8.182	2.290		5.4	8	30	8.11	32.54			
75	8.06	32.546	6.74	.78	8.088	2.270		5.8	8	50	8.05	32.53			
100	7.96	33.020	5.31	1.34	8.036	2.290		15.3	18	75	8.06	32.55			
124	7.71	33.685	3.62	2.06	7.849	2.350		27.0	33	100	7.96	33.02			
150	7.50	33.873	2.94	2.27	7.782	2.390		30.5	40	150	7.51	33.88			
199	6.81	33.946	2.58	2.47	7.723	2.390		33.7	48	200	6.80	33.95			
250	6.33	33.966	2.32	2.62	7.687	2.380		35.2	53	250	6.33	33.97			
275	6.21	34.007	2.01	2.74				36.8	59	300	5.99	34.01			
300	5.99	34.007	1.88	2.82	7.578	2.400		37.8	62	400	5.46	34.08			
326	5.91	34.037	1.75	2.93				38.8	65	500	5.02	34.14			
375	5.62	34.057	1.39	3.04	7.631	2.400		39.8	71	600	4.71	34.22			
400	5.46	34.073	1.21	3.12	7.636	2.400		40.9	75	700	4.34	34.28			
600	4.71	34.215	.56	3.43	7.516	2.420		44.0	97	800	4.10	34.34			
799	4.10	34.335	.40	3.68	7.600	2.470		42.6	110	1000	4.37	34.42			
999	4.37	34.418	.46	3.60	7.595	2.520		43.8	130						
NH 85 44 39.0 N 126 03.1 W DATE 29 MAR 71 1241 GCT WIRE DRY WET CRUISE Y7103E															
WIND DIRECTION 18 VEL 20 KTS BAR 20 SWELL DIRECTION29 H 07 T 07 CLOUD AMT 9 WEATHER 02															
0	8.53	32.596	6.69	.83				6.0	14	0	8.53	32.60	25.34	264.9	0
20	8.52	32.595	6.69	.78				5.3	11	10	8.52	32.59	25.34	265.5	.027
30	8.52	32.597	6.68	.79				5.3	9	20	8.52	32.60	25.34	265.2	.053
49	8.47	32.597	6.67	.78				5.4	9	30	8.52	32.60	25.34	265.2	.080
74	8.48	32.603	6.67	.82				5.7	8	50	8.47	32.60	25.35	265.1	.133
99	8.48	32.625	6.59	.83				6.5	9	75	8.48	32.60	25.35	265.1	.199
123	7.74	33.621	3.86	1.89				23.6	32	100	8.45	32.66	25.40	260.5	.265
149	7.61	33.794	3.27	2.09				27.1	40	150	7.60	33.80	26.42	165.1	.371
197	6.94	33.916	2.91					29.2	47	200	6.89	33.92	26.61	147.3	.449
248	6.16	33.927	2.83	2.53				30.6	56	250	6.15	33.93	26.71	137.6	.520
273	5.99	33.940	2.56	2.52				32.4	60	300	5.73	33.94	26.78	132.0	.588
298	5.75	33.942	2.42	2.60				33.8	65	400	4.72	33.98	26.92	118.7	.713
320	5.51	33.945	2.20	2.71				35.4	69	500	4.53	34.09	27.04	108.3	.826
372	5.11	33.951	2.00	2.85				36.7	74	600	4.33	34.21	27.15	99.2	.930
397	4.74	33.975	1.63	2.98				38.6	82	700	4.17	34.29	27.23	91.7	1.025
595	4.34	34.201	.56	3.34				42.7	108	800	3.98	34.35	27.30	85.6	1.114
793	4.00	34.347	.32	3.70				43.2	122	1000	3.45	34.42	27.41	76.2	1.276
991	3.47		.41	3.64				43.4	138						
NH 105 44 39.1 N 126 31.0 W DATE 29 MAR 71 1931 GCT WIRE 06 DRY 48.2 WET 48.1 CRUISE Y7103E															
WIND DIRECTION 20 VEL 22 KTS BAR 17 SWELL DIRECTION26 H 07 T 08 CLOUD AMT 9 WEATHER 02															
0	8.54		6.73	.81				6.5	11	0	8.54	32.60	25.34	265.1	0
20	8.55		6.75	.80				6.1	8	10	8.54	32.59	25.33	265.8	.027
30	8.56		6.75	.80				6.2	8	20	8.55	32.60	25.34	265.6	.053
49	8.54		6.71	.79				6.2	8	30	8.56	32.60	25.34	265.8	.080
75	8.54		6.68	.88				6.4	9	50	8.54	32.60	25.34	266.1	.133
100	8.09		4.98	1.44				16.9	20	75	8.54	32.60	25.34	266.1	.199
124	7.68		3.86	1.95				24.5	32	100	8.09	32.66	25.46	255.5	.265
150	7.45		3.26	2.15				29.1	40	150	7.45	33.80	26.44	163.1	.369
199	6.81		2.83	2.61				32.2	49	200	6.80	33.92	26.62	146.1	.446
250	6.18	33.932	2.70	2.52	7.823	2.340		34.0	56	250	6.19	33.94	26.72	137.4	.517
275	5.85	33.941	2.42	2.62	7.797	2.380		35.4	59	300	5.66	33.96	26.80	129.8	.584
300	5.65	33.955	2.17	2.72	7.768	2.370		36.7	66	400	5.04	34.03	26.93	118.6	.708
323	5.52	33.969	1.89	2.85	7.732	2.370		37.6	69	500	4.63	34.09	27.03	109.5	.822
375	5.18	34.006	1.51	3.02	7.692	2.380		40.6	77	600	4.31	34.21	27.15	99.0	.926
400	5.03	34.029	1.29		7.671	2.370				700	4.07	34.29	27.24	90.6	1.021
799	3.91		.35	3.49				45.5	115	800	3.91	34.35	27.31	84.7	1.109
999	3.39		.39	3.50				45.6	132	1000	3.39	34.42	27.41	75.5	1.269
NH 5 44 39.2 N 124 10.5 W DATE 30 MAR 71 1111 GCT WIRE DRY 47.0 WET 43.7 CRUISE Y7103E															
WIND DIRECTION 23 VEL 14 KTS BAR 14 SWELL DIRECTION28 H 05 T 07 CLOUD 8 AMT 8 WEATHER 03															
0	8.55	32.132	6.65	.98	8.169	2.410		7.4	15	0	8.55	32.14	24.97	299.7	0
7	8.56	32.130	6.65	.97	8.163	2.240		7.3	15	10	8.56	32.14	24.98	299.7	.030
17	8.56	32.166	6.65	.97	8.164	2.220		7.1	15	20	8.56	32.22	25.04	293.5	.060
27	8.55	32.368	6.65	.93	8.171	2.250		6.4	13	30	8.55	32.40	25.18	280.8	.088
37	8.56	32.435	6.62	.92	8.174	2.250		6.2	12	50	8.57	32.44	25.21	278.3	.144
54	8.57	32.439	6.62		8.164	2.260		6.2	12						
NH 10 44 38.1 N 124 17.5 W DATE 30 MAR 71 1426 GCT WIRE 02 DRY 47.0 WET 45.0 CRUISE Y7103E															
WIND DIRECTION 18 VEL 18 KTS BAR 13 SWELL DIRECTION28 H 04 T CLOUD 6 AMT 8 WEATHER 03															
0	8.50	32.445	6.59	.90				6.3	12	0	8.50	32.45	25.23	275.7	0
6	8.51	32.443	6.58	.89				6.4	12	10	8.50	32.44	25.22	276.3	.028
22	8.50	32.444	6.59	.89	8.115			6.4	12	20	8.50	32.44	25.22	276.4	.055
26	8.53	32.448	6.60	.89				6.6	12	30	8.52	32.45	25.22	276.6	.083
45	8.50	32.448	6.56	.88				6.8	12	50	8.50	32.45	25.23	276.5	.139
71	8.50	32.458	6.54	.91	8.123	2.150		6.8	11						

	OBSERVED								INTERPOLATED			COMPUTED		
D	T	S	O_2	PO_4	pH	Alk.	NO_3	SiO_2	ΣCO_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(μM)		(meq/l)	(μM)	(μM)	(mM)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
NH 15 44 39.2 N 124 24.3 W					DATE 30 MAR 71			1710 GCT		WIRE 02		DRY 46.2	WET 43.2	CRUISE Y7103E	
WIND DIRECTION 24 VEL 20 KTS					BAR 13		SWELL DIRECTION26			H 04 T 07	CLOUD 8	AMT 6	WEATHER 02		
0	8.46	32.538	6.61	.96	8.129	2.190	8.5	13		0	8.46	32.54	25.31	268.2	0
10	8.46	32.547	6.60	.95	8.117	2.210	8.3	13		10	8.46	32.55	25.31	267.7	.027
20	8.45	32.563	6.60	.99	8.135	2.190	8.4	13		20	8.45	32.57	25.33	266.6	.054
30	8.44	32.596	6.50	1.00	8.130	2.190	8.6	13		30	8.44	32.60	25.35	264.1	.080
39	8.42	32.608	6.48	1.03	8.126	2.180	8.8	14		50	8.37	32.66	25.41	258.9	.132
59	8.32	32.757	5.94	1.20	8.090	2.190	11.3	17							
74	8.21	33.053	4.89	1.61	8.002	2.280	17.4	26							
NH 25 44 39.4 N 124 38.1 W					DATE 30 MAR 71			2119 GCT		WIRE 01		DRY 49.7	WET 45.3	CRUISE Y7103E	
WIND DIRECTION 24 VEL 20 KTS					BAR 14		SWELL DIRECTION26			H 04 T 07	CLOUD 8	AMT 5	WEATHER 01		
0	8.46	32.350	6.75	.86	8.146	2.230	6.8	13		0	8.46	32.35	25.16	282.2	0
10	8.48	32.349	6.75	.85	8.154	2.220	6.7	13		10	8.48	32.35	25.15	282.7	.028
20	8.49	32.428	6.92	.89	8.150	2.230	7.0	14		20	8.49	32.43	25.21	277.2	.056
30	8.46	32.536	6.50	.98	8.140	2.210	8.2	15		30	8.46	32.54	25.30	268.9	.084
49	8.30	32.829	5.63	1.29	8.073	2.230	12.2	19		50	8.28	32.87	25.59	242.3	.135
62	8.07	33.307	4.28	1.80	7.951	2.310	20.0	30		75	7.95	33.44	26.09	195.2	.189
75	7.95	33.439	3.83	1.97	7.922	2.270	22.4	33		100	7.86	33.78	26.37	169.0	.235
88	7.89	33.664	3.51	2.05	7.886	2.270	24.3	34		150	7.34	33.92	26.55	152.3	.315
100	7.86	33.780	3.50	2.05	7.889	2.280	24.8	34		200	7.09	33.95	26.61	147.4	.390
124	7.54	33.876	3.04	2.25	7.851	2.280	27.1	40		250	6.56	33.99	26.71	138.2	.461
150	7.34	33.918	2.66	2.41	7.801	2.280	28.8	44							
175	7.22	33.943	2.50	2.45	7.793	2.290	29.5	47							
201*	7.08	33.952	2.40	2.52	7.789	2.290	30.2	49							
252*	6.53	33.994	1.98	2.74			33.0	56							
NH 35 44 39.1 N 124 52.4 W					DATE 31 MAR 71			0233 GCT		WIRE 03		DRY 45.9	WET 43.1	CRUISE Y7103E	
WIND DIRECTION 33 VEL 18 KTS					BAR 17		SWELL DIRECTION26			H 06 T	CLOUD 8	AMT 6	WEATHER 01		
0	8.35	32.426	6.67	1.06	8.146	2.250	8.1	16		0	8.35	32.43	25.23	275.0	0
10	8.34	32.426	6.67	.98	8.151	2.220	7.4	13		10	8.34	32.43	25.24	275.0	.027
20	8.35	32.427	6.68	1.05	8.139	2.240	7.5	14		20	8.35	32.43	25.23	275.2	.055
30	8.29	32.452	6.64	1.00	8.143	2.240	7.5	11		30	8.29	32.46	25.26	272.7	.082
49	8.25	32.499	6.50	1.02	8.126	2.240	8.0	12		50	8.25	32.50	25.30	269.1	.137
61	8.23	32.514	6.44	1.13	8.126	2.250	8.7	16		75	8.20	32.72	25.48	252.3	.202
75	8.20	32.718	5.76	1.32	8.077	2.250	11.7	20		100	7.97	33.56	26.17	187.5	.257
87	8.03	33.361	4.06	1.98	7.934	2.280	20.5	34		150	7.19	33.92	26.56	150.8	.341
100	7.97	33.552	3.61	2.12	7.899	2.290	23.3	35		200	6.36	34.00	26.74	134.6	.413
124	7.63	33.800	3.06	2.38	7.838	2.300	28.6	45		250	6.02	34.04	26.82	127.8	.478
150	7.19	33.911	2.51	2.55	7.792	2.390	31.2	50		300	5.74	34.06	26.87	123.5	.541
199	6.37	33.995	2.07	2.79	7.735	2.390	34.5	59		400	5.43	34.10	26.94	118.3	.662
250	6.01	34.033	1.61	3.03	7.684	2.370	36.4	66							
300	5.74	34.055	1.37	3.14	7.666	2.370	37.6	71							
400	5.43	34.097	1.05	3.26	7.634	2.420	38.2	77							
AH 5 44 25.5 N 124 12.0 W					DATE 31 MAR 71			1421 GCT		WIRE 00		DRY 46.8	WET 42.1	CRUISE Y7103E	
WIND DIRECTION 27 VEL 04 KTS					BAR 29		SWELL DIRECTION27			H 06 T	CLOUD 8	AMT 6	WEATHER 02		
0	8.53	32.164	6.58	1.01	8.120	2.220	8.4	16		0	8.53	32.17	25.00	297.1	0
10	8.55	32.162	6.61	.98			8.0	16		10	8.55	32.17	25.00	297.6	.030
20	8.65	32.235	6.64	.87	8.141	2.210	6.7	13		20	8.65	32.24	25.04	293.8	.059
30A	8.59	32.255	6.64	.86	8.136		6.5	13		30	8.59	32.26	25.06	291.6	.089
44	8.60	32.263	6.62	.88	8.136	2.190	6.5	13							
DB 5 44 50.3 N 124 10.3 W					DATE 31 MAR 71			1808 GCT		WIRE 02		DRY 47.0	WET 42.3	CRUISE Y7103E	
WIND DIRECTION 20 VEL 09 KTS					BAR 32		SWELL DIRECTION26			H 04 T 08	CLOUD 8	AMT 4	WEATHER 01		
0	8.53	30.609	6.80		8.073		9.7	26		0	8.53	30.61	23.79	412.8	0
10	8.47	32.449	6.56		8.105	2.200	7.5	13		10	8.47	32.45	25.23	275.2	.034
20	8.47	32.469	6.54		8.114	2.200	7.4	13		20	8.47	32.47	25.25	273.8	.062
30	8.50	32.507	6.51		8.118	2.210	7.3	13		30	8.50	32.51	25.27	271.6	.089
39	8.55		6.61				7.6	13		50	8.54	32.50	25.26	273.3	.144
49	8.54		6.56				7.8	13							
59	8.54		6.55				7.8	13							
DB 15 44 55.2 N 124 22.6 W					DATE 31 MAR 71			2025 GCT		WIRE 00		DRY 48.4	WET 43.3	CRUISE Y7103E	
WIND DIRECTION 19 VEL 14 KTS					BAR 32		SWELL DIRECTION27			H 06 T 08	CLOUD 0	AMT 7	WEATHER 03		
0	8.52	32.323	6.70	.88	8.121	2.210		13		0	8.52	32.33	25.13	285.1	0
10	8.47	32.323	6.77	.86	8.141	2.230		13		10	8.47	32.33	25.14	284.5	.028
20	8.43	32.338	6.69	.89	8.143	2.210		13		20	8.43	32.34	25.15	283.0	.057
30	8.43	32.366	6.62	.98	8.139	2.230		13		30	8.43	32.37	25.18	281.1	.085
49	8.40	32.573	6.26	1.05	8.109	2.230		15		50	8.39	32.60	25.36	263.9	.140
61	8.25	32.948	5.22	1.46	8.036	2.250		21		75	7.80	33.51	26.16	188.2	.196
74	7.81	33.497	3.44	2.14	7.879	2.270		30		100	7.67	33.65	26.29	176.4	.242
86	7.75	33.553	3.26	2.19	7.854	2.290		39		150	7.22	33.88	26.53	153.6	.324
99	7.68	33.644	3.00	2.33	7.826	2.280		43							
124	7.48	33.768	2.72	2.41	7.809	2.290		44							
149	7.23	33.878	2.53	2.51	7.781	2.290		47							



OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
0C	9.63	31.26		0	9.63	31.26	24.13	380.6	0
1C	9.63	31.26		10	9.42	31.67	24.47	347.9	.036
10C	9.42	31.66		20	8.90	32.34	25.08	289.8	.068
20C	8.90	32.34		30	8.88	32.34	25.09	289.7	.097
30C	8.88	32.34							

NH 25 44 39.1 N 124 38.2 W DATE 16 APR 71 0350 GCT WIRE
DRY 46.0 WET 41.5 CRUISE Y7104B WIND DIRECTION 35 VEL 10 KTS BAR 19
SWELL DIRECTION 32 H 06 T CLOUD 1 AMT 4 WEATHER 03

39C	8.67	32.54	0	9.63	31.26	24.13	380.6	0
50C	8.32	32.87	10	9.42	31.67	24.47	347.9	.036
62C	8.15	33.22	20	8.90	32.34	25.08	289.8	.068
75C	7.94	33.46	30	8.88	32.34	25.09	289.7	.097
87C	7.67	33.74	50	8.32	32.88	25.59	242.5	.150
100C	7.57	33.78	75	7.94	33.46	26.10	193.7	.205
150C	7.12	33.92	100	7.57	33.78	26.41	165.1	.250
			150	7.12	33.92	26.58	149.6	.328

NH 35 44 39.0 N 124 52.4 W DATE 17 APR 71 1735 GCT WIRE

DRY 48.0 WET 45.2 CRUISE Y7104B WIND DIRECTION 35 VEL 28 KTS BAR 09
SWELL DIRECTION 30 H 08 T 08 CLOUD 8 AMT 7 WEATHER 01

0C	8.92	32.56	0	8.92	32.56	25.25	273.4	0
1C	8.92	32.56	10	8.92	32.57	25.26	272.8	.027
10C	8.92	32.57	20	8.91	32.57	25.26	272.9	.055
20C	8.91	32.57	30	8.89	32.59	25.28	271.2	.082
30C	8.89	32.59	50	8.21	33.01	25.71	230.5	.132
50C	8.21	33.01	75	8.08	33.56	26.16	188.2	.184
62C	8.18	33.30	100	7.78	33.79	26.39	167.1	.229
75C	8.08	33.56	150	7.20	33.96	26.60	147.4	.307
87C	7.82	33.75	200	6.65	34.00	26.71	137.7	.379
100C	7.77	33.79	250	6.20	34.05	26.80	129.3	.445
150C	7.20	33.96	300	5.95	34.09	26.87	123.8	.509
200C	6.64	34.00						
251C	6.19	34.05						
300C	5.95	34.09						

NH 45 44 39.1 N 125 06.1 W DATE 17 APR 71 2155 GCT WIRE
DRY 46.5 WET 45.0 CRUISE Y7104B WIND DIRECTION 33 VEL 24 KTS BAR 12
SWELL DIRECTION 30 H 06 T 09 CLOUD 6 AMT 8 WEATHER 03

0C	8.87	32.54	0	8.87	32.54	25.24	274.2	0
1C	8.87	32.54	10	8.87	32.52	25.23	276.0	.028
11C	8.87	32.52	20	8.85	32.57	25.27	272.0	.055
20C	8.85	32.57	30	8.79	32.54	25.26	273.4	.082
32C	8.77	32.54	50	8.28	33.12	25.79	223.5	.132
53C	8.20	33.23	75	8.11	33.47	26.09	195.3	.184
62C	8.15	33.34	100	7.76	33.79	26.39	166.9	.229
75C	8.11	33.47	150	7.34	33.90	26.54	153.8	.310
90C	7.90	33.77	200	6.78	33.92	26.63	145.4	.384
100C	7.75	33.79	250	6.20	34.02	26.78	131.7	.454

	OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
OB 7 44 46.4 N 124 16.6 W DATE 16 APR 71 1030 GCT WIRE									
DRY 44.8 WET 42.0 CRUISE Y7104B WIND DIRECTION 06 VEL 08 KTS BAR 12									
SWELL DIRECTION 31 H 04 T 08 CLOUD 6 AMT 8 WEATHER 03									
0C	9.76	30.98		0	9.76	30.98	23.89	403.3	0
1C	9.76	30.98		10	9.30	32.14	24.86	310.5	.036
11C	9.23	32.30		20	8.92	32.36	25.10	288.6	.066
20C	8.92	32.36		30	8.92	32.47	25.18	280.6	.094
33C	8.92	32.47		50	8.66	32.52	25.26	273.7	.150
51C	8.63	32.53		75	8.04	33.31	25.97	206.2	.209
62C	8.22	32.92							
75C	8.04	33.31							
88C	7.69	33.63							
OB 7 44 46.7 N 124 16.1 W DATE 16 APR 71 2045 GCT WIRE									
DRY 50.5 WET 49.0 CRUISE Y7104B WIND DIRECTION 18 VEL 22 KTS BAR 05									
SWELL DIRECTION 19 H 04 T 06 CLOUD 8 AMT 7 WEATHER 02									
0C	9.36	31.65		0	9.36	31.65	24.47	347.5	0
1C	9.36	31.65		10	9.05	32.20	24.95	302.7	.033
12C	8.95	32.35		20	8.75	32.48	25.22	277.2	.061
20C	8.75	32.48		30	8.72	32.46	25.20	276.4	.089
30C	8.72	32.46		50	8.61	32.54	25.28	271.2	.144
51C	8.59	32.56		75	7.92	33.33	26.00	203.6	.204
62C	8.18	32.96							
76C	7.91	33.35							
OB 7 44 46.4 N 124 16.8 W DATE 17 APR 71 0110 GCT WIRE									
DRY 47.8 WET 46.0 CRUISE Y7104B WIND DIRECTION 19 VEL 20 KTS BAR 03									
SWELL DIRECTION 21 H 04 T N CLOUD 6 AMT 8 WEATHER 02									
0C	9.22	32.29		0	9.22	32.29	24.99	297.9	0
1C	9.22	32.29		10	9.22	32.30	25.00	297.3	.030
10C	9.22	32.30		20	9.16	32.30	25.01	296.6	.059
20C	9.16	32.30		30	8.98	32.46	25.16	283.0	.088
30C	8.98	32.45		50	8.64	32.50	25.25	274.6	.144
50C	8.64	32.50		75	8.16	33.00	25.71	230.9	.207
64C	8.32	32.81							
75C	8.16	33.00							
NH 3 44 39.1 N 124 07.7 W DATE 15 APR 71 2245 GCT WIRE									
DRY 43.2 WET 42.3 CRUISE Y7104B WIND DIRECTION 33 VEL 12 KTS BAR 23									
SWELL DIRECTION 30 H 06 T 08 CLOUD 8 AMT 3 WEATHER 00									
0C	9.78	31.40		0	9.78	31.40	24.21	372.5	0
2C	9.78	31.40		10	9.51	31.69	24.48	347.0	.036
10C	9.51	31.69		20	9.14	32.06	24.83	314.1	.069
20C	9.14	32.06		30	8.76	32.42	25.16	282.7	.099
30C	8.76	32.41							
NH 5 44 39.2 N 124 10.6 W DATE 16 APR 71 0030 GCT WIRE									
DRY 49.5 WET 43.5 CRUISE Y7104B WIND DIRECTION 31 VEL 08 KTS BAR 22									
SWELL DIRECTION 30 H 06 T CLOUD 8 AMT 7 WEATHER 03									
150C	7.34	33.90		300	5.80	34.07	26.87	123.5	.517
200C	6.77	33.92		400	5.26	34.13	26.98	113.6	.636
251C	6.19	34.02		500	4.87	34.21	27.09	104.2	.745
406C	5.24	34.13		600	4.61	34.28	27.18	96.6	.845
504C	4.86	34.21							
600C	4.61	34.28							
NH 55 44 39.1 N 125 20.1 W DATE 18 APR 71 0105 GCT WIRE									
DRY 47.5 WET 45.0 CRUISE Y7104B WIND DIRECTION 33 VEL 28 KTS BAR 15									
SWELL DIRECTION 32 H 10 T CLOUD 6 AMT 8 WEATHER 03									
0C	8.76	32.51		0	8.76	32.51	25.24	274.8	0
1C	8.76	32.51		10	8.76	32.47	25.21	277.9	.028
10C	8.76	32.47		20	8.76	32.50	25.23	275.9	.055
20C	8.76	32.50		30	8.76	32.49	25.22	276.9	.083
31C	8.76	32.49		50	8.74	32.50	25.23	276.8	.138
50C	8.74	32.49		75	8.11	33.08	25.78	224.2	.201
63C	8.19	32.69		100	7.93	33.63	26.23	181.9	.252
76C	8.10	33.12		150	7.35	33.93	26.55	152.2	.335
89C	7.99	33.47		200	6.85	33.99	26.67	141.7	.409
100C	7.92	33.62		250	6.43	34.02	26.75	134.5	.478
151C	7.34	33.93		300	6.02	34.04	26.82	128.0	.543
202C	6.83	33.99		400	5.41	34.13	26.96	115.6	.665
251C	6.42	34.02		500	4.95	34.20	27.07	105.7	.776
300C	6.01	34.04		600	4.61	34.29	27.18	96.0	.876
404C	5.39	34.13		700	4.31	34.34	27.26	89.6	.969
502C	4.94	34.20		800	4.05	34.40	27.33	82.6	1.055
603C	4.60	34.29		1000	3.64	34.47	27.43	74.6	1.212
702C	4.30	34.34							
800C	4.05	34.40							
1001C	3.64	34.47							
NH 65 44 39.0 N 125 35.3 W DATE 17 APR 71 0545 GCT WIRE									
DRY 49.9 WET 41.8 CRUISE Y7104B WIND DIRECTION 32 VEL 24 KTS BAR 18									
SWELL DIRECTION 32 H 08 T 09 CLOUD 6 AMT 6 WEATHER 03									
0C	8.71	32.66		0	8.71	32.67	25.36	262.9	0
2C	8.71	32.66		10	8.71	32.63	25.34	265.4	.026
11C	8.71	32.63		20	8.71	32.66	25.36	263.8	.053
21C	8.71	32.66		30	8.71	32.66	25.36	264.0	.079
34C	8.71	32.65		50	8.71	32.65	25.35	264.7	.132
53C	8.70	32.65		75	8.06	32.85	25.61	240.7	.195
67C	8.58	32.66		100	7.92	33.54	26.17	188.1	.249
75C	8.06	32.85		150	7.56	33.85	26.47	160.4	.336
87C	8.00	33.23		200	7.14	33.92	26.57	150.9	.414
101C	7.91	33.56		250	6.53	33.96	26.69	140.4	.487
150C	7.55	33.85		300	6.08	34.01	26.79	131.4	.555
200C	7.13	33.91		400	5.41	34.07	26.92	120.0	.680
253C	6.49	33.96		500	4.93	34.18	27.06	107.1	.794
301C	6.07	34.01		600	4.56	34.25	27.16	97.9	.896
404C	5.39	34.07		700	4.29	34.34	27.26	89.0	.990
503C	4.92	34.18		800	4.00	34.38	27.32	83.9	1.076
600C	4.56	34.25							
700C	4.29	34.34							
804C	3.99	34.38							
NH 75 44 39.1 N 125 49.2 W DATE 18 APR 71 0830 GCT WIRE									
DRY 45.2 WET 42.0 CRUISE Y7104B WIND DIRECTION 32 VEL 16 KTS BAR 20									
SWELL DIRECTION 32 H 06 T 09 CLOUD 6 AMT 2 WEATHER 01									
0C	8.89	32.69		0	8.89	32.69	25.36	263.3	0

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
1C	8.89	32.69		10	8.90	32.68	25.35	264.3	.026
16C	8.90	32.68		20	8.90	32.71	25.37	262.3	.053
20C	8.90	32.71		30	8.91	32.70	25.36	263.5	.079
33C	8.91	32.69		50	8.90	32.69	25.35	264.6	.132
52C	8.90	32.69		75	8.62	32.78	25.47	253.9	.197
63C	8.88	32.70		100	8.13	33.42	26.04	200.5	.253
75C	8.62	32.78		150	7.50	33.83	26.46	161.2	.344
89C	8.23	33.27		200	6.95	33.96	26.64	144.8	.420
100C	8.13	33.41		250	6.44	34.00	26.73	136.2	.490
151C	7.49	33.84		300	5.79	34.02	26.83	127.1	.556
200C	6.95	33.96		400	4.92	34.06	26.97	114.4	.677
252C	6.42	34.00		500	4.38	34.10	27.06	106.0	.787
301C	5.78	34.02		600	4.34	34.26	27.19	94.6	.887
400C	4.92	34.06		700	4.17	34.36	27.29	86.5	.978
500C	4.37	34.10		800	3.96	34.42	27.36	80.0	1.061
600C	4.34	34.26		1000	3.49	34.49	27.46	71.3	1.212
701C	4.17	34.36							
800C	3.95	34.42							
1000C	3.49	34.49							

NH 85 44 39.1 N 126 03.0 W DATE 18 APR 71 1218 GCT WIRE
DRY 46.0 WET 43.9 CRUISE Y7104B WIND DIRECTION 30 VEL 12 KTS BAR 21
SWELL DIRECTION 32 H 06 T 08 CLOUD 8 AMT 6 WEATHER 01

12C	8.97	32.71	0	8.89	32.69	25.36	263.3	0
23C	8.97	32.70	10	8.90	32.68	25.35	264.3	.026
31C	8.97	32.70	20	8.97	32.70	25.35	264.4	.053
51C	8.97	32.69	30	8.97	32.70	25.35	264.6	.079
63C	8.97	32.69	50	8.97	32.69	25.34	265.6	.132
78C	8.94	32.69	75	8.95	32.69	25.35	265.8	.199
87C	8.87	32.72	100	8.80	32.98	25.60	242.4	.262
102C	8.79	33.03	150	8.17	33.81	26.34	172.7	.366
154C	8.10	33.85	200	7.22	33.97	26.61	147.7	.446
202C	7.18	33.98	250	6.32	34.00	26.74	135.0	.517
250C	6.32	33.99	300	5.84	33.97	26.79	131.0	.583
303C	5.84	33.97	400	5.09	34.06	26.95	116.5	.707
438C	4.86	34.11	500	4.52	34.14	27.07	105.1	.818
501C	4.52	34.14	600	4.45	34.26	27.18	96.3	.918
601C	4.45	34.26	700	4.14	34.33	27.27	88.4	1.011
702C	4.13	34.33	800	3.87	34.41	27.36	80.2	1.095
803C	3.86	34.41	1000	3.38	34.52	27.49	67.9	1.243
1001C	3.38	34.52						

NH 105 44 39.1 N 126 31.0 W DATE 18 APR 71 1515 GCT WIRE
DRY 47.0 WET 45.0 CRUISE Y7104B WIND DIRECTION 25 VEL 08 KTS BAR 22
SWELL DIRECTION 29 H 06 T 08 CLOUD 6 AMT 6 WEATHER 02

0C	9.05	32.65	0	9.05	32.65	25.30	268.7	0
1C	9.05	32.65	10	9.05	32.65	25.30	269.1	.027
13C	9.05	32.65	20	9.05	32.67	25.31	268.3	.054
28C	9.05	32.66	30	9.05	32.66	25.31	268.7	.081
33C	9.05	32.66	50	9.05	32.67	25.31	268.8	.134
50C	9.05	32.66	75	8.77	32.69	25.37	263.4	.201
62C	9.05	32.68	100	8.44	33.38	25.96	207.8	.260
77C	8.72	32.70	150	7.90	33.83	26.40	166.8	.353
92C	8.49	33.10	200	7.27	33.97	26.60	148.8	.432

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
NH 165 44 39.1 N 127 55.0 W DATE 19 APR 71 0300 GCT WIRE									
DRY 48.0 WET 47.0 CRUISE Y7104B WIND DIRECTION 24 VEL 10 KTS BAR 21									
SWELL DIRECTION 29 H 06 T 10 CLOUD 8 AMT 8 WEATHER 02									
0C	8.70	32.61		0	8.70	32.61	25.32	266.5	0
1C	8.70	32.61		10	8.61	32.60	25.33	266.1	.027
13C	8.57	32.60		20	8.55	32.60	25.34	265.7	.053
24C	8.55	32.60		30	8.54	32.61	25.34	265.1	.080
31C	8.54	32.61		50	8.53	32.61	25.35	265.1	.133
52C	8.53	32.61		75	8.45	32.60	25.35	265.1	.199
65C	8.53	32.60		100	7.78	33.07	25.82	220.7	.260
78C	8.39	32.61		150	7.48	33.82	26.45	161.7	.355
92C	7.63	32.77		200	6.73	33.94	26.65	143.8	.432
100C	7.77	33.07		250	6.30	33.97	26.73	136.6	.502
150C	7.48	33.82		300	5.79	34.02	26.84	126.6	.567
201C	6.71	33.94		400	5.25	34.07	26.94	117.9	.690
252C	6.29	33.97		500	4.79	34.16	27.06	106.8	.802
300C	5.78	34.02		600	4.49	34.27	27.18	95.6	.903
402C	5.24	34.07		700	4.17	34.33	27.26	88.7	.995
502C	4.78	34.16		800	3.91	34.39	27.34	82.1	1.081
600C	4.49	34.27		1000	3.37	34.49	27.47	69.9	1.233
701C	4.17	34.33							
803C	3.90	34.39							
1000C	3.37	34.49							

YH 145 44 19.0 N 127 28.4 W DATE 19 APR 71 0627 GCT WIRE
DRY 48.0 WET 46.0 CRUISE Y7104B WIND DIRECTION 22 VEL 08 KTS BAR 21
SWELL DIRECTION 29 H 06 T 09 CLOUD 6 AMT 8 WEATHER 02

0C	9.06	32.70	0	9.06	32.71	25.34	265.1	0
1C	9.06	32.70	10	8.88	32.66	25.34	265.6	.027
11C	8.86	32.66	20	8.83	32.68	25.35	264.1	.053
21C	8.83	32.68	30	8.82	32.69	25.37	262.8	.079
30C	8.82	32.69	50	8.81	32.67	25.35	265.1	.132
55C	8.81	32.66	75	8.81	32.67	25.35	265.2	.198
64C	8.81	32.67	100	7.97	33.35	26.01	202.6	.257
76C	8.81	32.67	150	7.17	33.83	26.50	156.9	.347
88C	8.30	32.84	200	6.65	33.94	26.66	142.7	.422
100C	7.97	33.35	250	6.12	33.98	26.76	133.6	.491
154C	7.13	33.87	300	5.56	33.97	26.82	127.5	.556
201C	6.64	33.94	400	4.79	34.08	27.00	111.3	.675
252C	6.10	33.98	500	4.38	34.18	27.12	100.6	.781
300C	5.55	33.97	600	4.22	34.26	27.21	93.3	.878
400C	4.78	34.08	700	3.98	34.34	27.29	86.0	.968
503C	4.37	34.18	800	3.78	34.41	27.37	79.1	1.050
600C	4.22	34.26	1000	3.36	34.49	27.47	69.8	1.199
704C	3.97	34.34						
801C	3.78	34.41						
1000C	3.36	34.49						

YH 125 44 18.8 N 127 00.2 W DATE 19 APR 71 0943 GCT WIRE
DRY 49.3 WET 47.1 CRUISE Y7104B WIND DIRECTION 22 VEL 08 KTS BAR 20
SWELL DIRECTION 29 H 04 T 09 CLOUD 6 AMT 8 WEATHER 02

0C	9.28	32.67	0	9.28	32.67	25.28	270.6	0
1C	9.28	32.67	10	9.02	32.67	25.32	266.9	.027

101C	8.44	33.41	250	6.32	33.96	26.72	137.2	.504
153C	7.86	33.86	300	6.01	34.01	26.79	130.8	.571
201C	7.26	33.97	400	5.13	34.05	26.93	117.9	.695
250C	6.32	33.96	500	4.68	34.16	27.07	105.7	.807
303C	6.00	34.01	600	4.38	34.26	27.18	95.8	.907
401C	5.12	34.05	700	4.12	34.32	27.26	88.8	1.000
503C	4.67	34.16	800	3.81	34.39	27.35	81.0	1.085
605C	4.37	34.26						
702C	4.11	34.32						
803C	3.80	34.39						

NH 125 44 39.6 N 126 58.9 W DATE 18 APR 71 1940 GCT WIRE
DRY 49.3 WET 46.2 CRUISE Y7104B WIND DIRECTION 23 VEL 06 KTS BAR 23
SWELL DIRECTION 29 H 06 T 09 CLOUD 8 AMT 5 WEATHER 01

0C	8.98	32.75	0	8.98	32.75	25.39	260.2	
1C	8.98	32.75	10	8.91	32.69	25.36	263.8	.026
10C	8.91	32.69	20	8.88	32.67	25.34	265.3	.053
21C	8.88	32.67	30	8.88	32.67	25.34	265.9	.079
30C	8.88	32.66	50	8.87	32.66	25.33	266.4	.132
52C	8.87	32.66	75	8.51	32.74	25.45	255.4	.198
65C	8.87	32.66	100	8.00	33.27	25.95	209.0	.256
77C	8.43	32.77	150	7.36	33.84	26.48	159.2	.348
91C	8.16	33.08	200	6.76	33.96	26.66	142.8	.423
100C	8.00	33.27	250	6.08	34.01	26.79	130.8	.492
153C	7.33	33.85	300	5.63	34.03	26.84	126.5	.556
201C	6.75	33.96	400	4.89	34.08	26.99	112.9	.675
253C	6.04	34.01	500	4.46	34.14	27.08	104.5	.784
302C	5.62	34.00	600	4.25	34.28	27.21	92.7	.883
401C	4.88	34.08	700	3.97	34.35	27.30	85.0	.971
503C	4.45	34.14	800	3.74	34.39	27.35	80.1	1.054
602C	4.25	34.28						
703C	3.96	34.35						
800C	3.74	34.39						

NH 145 44 39.1 N 127 27.0 W DATE 18 APR 71 2320 GCT WIRE
DRY 48.2 WET 46.1 CRUISE Y7104B WIND DIRECTION 22 VEL 12 KTS BAR 22
SWELL DIRECTION 29 H 06 T 08 CLOUD 8 AMT 8 WEATHER 03

0C	8.65	32.65	0	8.65	32.65	25.36	262.8	0
1C	8.65	32.65	10	8.35	32.64	25.40	259.4	.026
10C	8.35	32.64	20	8.33	32.66	25.41	258.3	.052
21C	8.33	32.66	30	8.32	32.67	25.42	257.8	.078
30C	8.32	32.66	50	8.32	32.63	25.40	260.3	.130
50C	8.32	32.63	75	8.00	32.71	25.51	250.5	.193
62C	8.32	32.62	100	7.84	33.43	26.09	195.2	.249
76C	7.98	32.73	150	7.52	33.83	26.45	161.7	.338
89C	8.05	33.22	200	6.96	33.93	26.61	147.5	.416
102C	7.80	33.45	250	6.42	34.00	26.73	135.9	.486
153C	7.51	33.84	300	5.92	34.04	26.83	127.3	.552
202C	6.93	33.93	400	5.32	34.12	26.97	115.1	.673
251C	6.41	34.00	500	4.78	34.21	27.10	103.2	.782
303C	5.89	34.04	600	4.32	34.24	27.17	96.3	.882
401C	5.32	34.12	700	4.06	34.33	27.27	87.7	.974
500C	4.77	34.20	800	3.77	34.37	27.34	82.0	1.059
604C	4.30	34.24	1000	3.23	34.49	27.48	68.5	1.209
705C	4.05	34.33						
803C	3.76	34.37						
1001C	3.23	34.49						

10C	9.02	32.67	20	8.97	32.67	25.32	267.1	.054
20C	8.97	32.66	30	8.97	32.67	25.33	266.9	.080
31C	8.97	32.67	50	8.96	32.67	25.33	267.0	.134
52C	8.96	32.67	75	8.76	32.67	25.36	264.4	.200
63C	8.96	32.67	100	8.00	33.27	25.95	209.1	.259
76C	8.73	32.67	150	7.24	33.89	26.54	153.4	.350
87C	8.26	32.92	200	6.59	33.96	26.68	140.8	.423
101C	7.99	33.30	250	6.02	34.00	26.79	130.8	.491
153C	7.20	33.90	300	5.59	34.04	26.87	123.2	.555
200C	6.59	33.95	400	5.13	34.12	26.99	113.0	.673
251C	6.01	34.00	500	4.53	34.21	27.13	100.3	.779
302C	5.58	34.04	600	4.15	34.27	27.22	92.2	.876
404C	5.12	34.12	700	4.04	34.34	27.28	86.6	.965
500C	4.52	34.20	800	3.68	34.39	27.36	79.1	1.048
602C	4.15	34.27	1000	3.36	34.50	27.48	69.1	1.196
703C	4.04	34.34						
800C	3.68	34.39						
1001C	3.36	34.50						

YH 105 44 19.0 N 126 32.4 W DATE 19 APR 71 1320 GCT WIRE
DRY 48.2 WET 46.6 CRUISE Y7104B WIND DIRECTION 18 VEL 06 KTS BAR 19
SWELL DIRECTION 29 H 03 T 07 CLOUD 6 AMT 8 WEATHER 02

0C	9.14	32.63	0	9.14	32.63	25.27	271.5	0
2C	9.14	32.63	10	9.03	32.64	25.29	269.8	.027
13C	8.98	32.64	20	8.96	32.65	25.31	268.0	.054
21C	8.96	32.65	30	8.96	32.63	25.30	269.7	.081
33C	8.96	32.62	50	8.95	32.64	25.31	268.8	.135
50C	8.95	32.64	75	8.26	32.79	25.53	248.6	.199
62C	8.94	32.65	100	8.00	33.14	25.84	218.7	.258
76C	8.21	32.80	150	7.35	33.85	26.49	158.0	.352
87C	8.08	32.95	200	6.64	33.93	26.66	142.8	.427
100C	8.00	33.14	250	6.15	33.96	26.74	135.4	.497
153C	7.30	33.88	300	5.68	34.00	26.83	127.2	.562
200C	6.63	33.93	400	5.18	34.08	26.95	116.4	.684
253C	6.12	33.96	500	4.79	34.18	27.08	105.3	.795
302C	5.66	34.00	600	4.32	34.23	27.17	96.6	.896
401C	5.18	34.08	700	4.07	34.31	27.26	88.7	.988
501C	4.79	34.18	800	3.78	34.39	27.35	80.9	1.073
600C	4.32	34.23	1000	3.41	34.49	27.47	70.4	1.224
700C	4.07	34.31						
805C	3.77	34.39						
1001C	3.41	34.49						

YH 85 44 19.1 N 126 05.0 W DATE 19 APR 71 1612 GCT WIRE

DRY 49.2 WET 46.8 CRUISE Y7104B WIND DIRECTION 16 VEL 08 KTS BAR 16
SWELL DIRECTION 26 H 04 T 08 CLOUD 6 AMT 8 WEATHER 01

0C	9.23	32.65	0	9.23	32.65	25.27	271.3	0
3C	9.23	32.65	10	9.10	32.64	25.28	270.5	.027
11C	9.08	32.64	20	9.06	32.64	25.29	269.9	.054
20C	9.06	32.64	30	9.05	32.63	25.28	270.9	.081
31C	9.05	32.63	50	9.05	32.63	25.28	271.7	.135
50C	9.05	32.62	75	8.73	32.73	25.41	259.4	.202
63C	8.96	32.64	100	8.57	33.11	25.73	229.8	.263
78C	8.68	32.75	150	8.05	33.82	26.37	169.7	.363
88C	8.65	32.72	200	7.37	33.97	26.56	150.1	.443
106C	8.52	33.35	250	6.80	33.98	26.67	141.9	.516
153C	8.05	33.82	300	6.20	34.00	26.76	133.8	.585

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
203C	7.33	33.97		400	5.34	34.01	26.88	123.6	.713
250C	6.79	33.98		500	4.52	34.13	27.07	105.5	.828
307C	6.12	34.00		600	4.24	34.23	27.18	95.7	.928
405C	5.30	34.01		700	4.11	34.33	27.27	87.6	1.020
504C	4.49	34.14		800	3.86	34.40	27.35	80.8	1.104
600C	4.24	34.23		1000	3.42	34.50	27.47	69.9	1.255
703C	4.11	34.33							
801C	3.86	34.40							
1002C	3.42	34.50							

YH 75 44 19.0 N 125 50.9 W DATE 19 APR 71 1830 GCT WIRE
DRY 49.0 WET 47.2 CRUISE Y7104B WIND DIRECTION 16 VEL 10 KTS BAR 16
SWELL DIRECTION 28 H 04 T 08 CLOUD 6 AMT 8 WEATHER 03

0C	9.29	32.67	0	9.29	32.67	25.28	270.8	0
1C	9.29	32.67	10	9.09	32.67	25.31	268.3	.027
13C	9.01	32.67	20	8.97	32.68	25.33	266.0	.054
22C	8.97	32.68	30	8.96	32.66	25.32	267.3	.080
34C	8.96	32.65	50	8.96	32.64	25.31	269.2	.134
51C	8.96	32.64	75	8.93	32.67	25.33	267.2	.201
62C	8.96	32.65	100	8.64	33.25	25.83	219.8	.262
78C	8.92	32.68	150	7.77	33.71	26.32	174.5	.360
89C	8.81	32.80	200	7.28	33.90	26.54	154.0	.442
100C	8.64	33.25	250	6.59	33.98	26.69	139.8	.516
157C	7.66	33.77	300	6.09	33.99	26.77	133.0	.584
208C	7.21	33.91	400	4.90	34.04	26.95	116.1	.709
253C	6.55	33.98	500	4.28	34.13	27.09	103.2	.818
303C	6.06	33.99	600	4.29	34.25	27.19	94.7	.917
402C	4.88	34.04	700	4.17	34.32	27.25	89.5	1.009
501C	4.28	34.13						
600C	4.28	34.25						
703C	4.17	34.32						

YH 65 44 19.0 N 125 37.0 W DATE 19 APR 71 2045 GCT WIRE
DRY 49.4 WET 47.5 CRUISE Y7104B WIND DIRECTION 20 VEL 14 KTS BAR 15
SWELL DIRECTION 26 H 04 T 10 CLOUD 6 AMT 8 WEATHER 02

0C	8.81	32.60	0	8.81	32.60	25.30	268.8	0
1C	8.81	32.60	10	8.70	32.59	25.31	268.3	.027
11C	8.68	32.59	20	8.54	32.58	25.33	266.8	.054
22C	8.51	32.58	30	8.50	32.56	25.31	267.9	.080
31C	8.50	32.56	50	8.49	32.56	25.31	268.3	.134
52C	8.49	32.56	75	8.41	32.59	25.35	265.0	.201
63C	8.50	32.57	100	7.91	33.33	26.00	203.8	.259
75C	8.41	32.59	150	7.68	33.82	26.42	164.7	.351
87C	8.05	32.80	200	7.08	33.96	26.62	146.6	.429
101C	7.90	33.37	250	6.28	33.98	26.74	135.5	.500
151C	7.68	33.83	300	6.09	34.06	26.83	127.8	.565
200C	7.08	33.96	400	5.42	34.13	26.96	115.7	.687
252C	6.25	33.98	500	4.95	34.22	27.09	103.8	.797
305C	6.08	34.07	600	4.61	34.30	27.19	95.2	.896
400C	5.41	34.12	700	4.36	34.35	27.26	89.5	.989
500C	4.95	34.22	800	4.11	34.40	27.33	83.3	1.075
601C	4.61	34.30	1000	3.53	34.49	27.45	71.8	1.230
702C	4.36	34.35						
800C	4.11	34.40						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
150C	7.26	33.95		300	5.82	34.09	26.89	121.7	.519
202C	6.49	34.02		400	5.38	34.14	26.98	114.2	.637
250C	6.16	34.04							
300C	5.81	34.09							
403C	5.37	34.14							

YH 25 44 19.1 N 124 41.2 W DATE 20 APR 71 0952 GCT WIRE
DRY 45.2 WET 44.2 CRUISE Y7104B WIND DIRECTION 21 VEL 12 KTS BAR 12
SWELL DIRECTION 28 H 04 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	9.08	32.52	0	9.08	32.52	25.20	278.8	0
3C	9.08	32.52	10	9.09	32.49	25.17	281.3	.028
11C	9.09	32.49	20	9.08	32.50	25.17	281.1	.056
22C	9.07	32.50	30	8.97	32.50	25.19	279.9	.084
30C	8.97	32.49	50	8.41	32.89	25.59	242.3	.136
50C	8.41	32.89	75	7.88	33.46	26.11	192.7	.191
63C	8.19	33.16						
75C	7.87	33.46						

FH 28 43 59.0 N 124 47.0 W DATE 20 APR 71 1215 GCT WIRE
DRY 44.0 WET 43.0 CRUISE Y7104B WIND DIRECTION 32 VEL 18 KTS BAR 14
SWELL DIRECTION 28 H 04 T CLOUD AMT 9 WEATHER 00

0C	9.12	32.37	0	9.12	32.38	25.07	290.5	0
2C	9.12	32.37	10	9.12	32.37	25.07	291.0	.029
12C	9.12	32.37	20	9.12	32.38	25.07	290.8	.058
20C	9.12	32.37	30	9.05	32.40	25.11	287.7	.087
30C	9.05	32.40	50	8.44	32.89	25.58	243.0	.140
51C	8.41	32.92	75	8.10	33.38	26.01	202.6	.196
64C	8.24	33.15						
75C	8.10	33.37						
88C	7.94	33.58						

FH 35 43 59.0 N 124 56.7 W DATE 20 APR 71 1328 GCT WIRE
DRY 46.0 WET 42.5 CRUISE Y7104B WIND DIRECTION 31 VEL 21 KTS BAR 14
SWELL DIRECTION 28 H 04 T CLOUD 8 AMT 8 WEATHER 02

0C	8.76	32.55	0	8.76	32.55	25.27	271.8	0
3C	8.76	32.55	10	8.75	32.54	25.26	272.6	.027
10C	8.75	32.54	20	8.70	32.56	25.28	271.2	.054
22C	8.69	32.56	30	8.61	32.56	25.30	269.4	.081
30C	8.61	32.56	50	8.31	32.71	25.45	255.0	.134
50C	8.31	32.70	75	8.00	33.50	26.13	191.5	.190
65C	8.07	33.16	100	7.91	33.74	26.32	173.5	.235
75C	8.00	33.50	150	6.96	34.00	26.67	141.2	.314
87C	7.95	33.68	200	6.60	34.06	26.76	133.3	.383
104C	7.89	33.74	250	6.10	34.06	26.82	127.3	.448
150C	6.96	34.00						
203C	6.59	34.06						
250C	6.10	34.06						

FH 45 43 59.0 N 125 10.9 W DATE 20 APR 71 1535 GCT WIRE
DRY 47.0 WET 42.5 CRUISE Y7104B WIND DIRECTION 32 VEL 18 KTS BAR 15
SWELL DIRECTION 28 H 06 T CLOUD 8 AMT 4 WEATHER 02

1001C	3.53	34.49

YH 55 44 19.0 N 125 22.9 W DATE 19 APR 71 2300 GCT WIRE
DRY 49.6 WET 47.8 CRUISE Y71048 WIND DIRECTION 17 VEL 16 KTS BAR 14
SWELL DIRECTION 29 H 06 T 10 CLOUD 6 AMT 7 WEATHER 03

0C	8.95	32.50		0	8.95	32.50	25.20	278.3	0
4C	8.95	32.50		10	8.94	32.50	25.20	278.7	.028
12C	8.94	32.50		20	8.76	32.51	25.23	275.5	.056
22C	8.71	32.51		30	8.70	32.51	25.24	274.7	.083
33C	8.70	32.51		50	8.54	32.53	25.28	271.6	.138
54C	8.45	32.57		75	8.08	33.28	25.94	209.0	.198
62C	8.14	32.80		100	7.91	33.64	26.25	180.3	.246
76C	8.08	33.32		150	7.41	33.91	26.53	154.6	.330
90C	7.96	33.59		200	6.57	33.90	26.64	144.4	.405
103C	7.90	33.65		250	6.23	33.95	26.72	136.9	.475
153C	7.37	33.92		300	6.00	33.99	26.78	131.9	.542
201C	6.55	33.90		400	5.42	34.05	26.90	121.5	.669
255C	6.21	33.96		500	4.94	34.13	27.02	110.8	.785
302C	5.99	33.99		600	4.60	34.21	27.12	101.4	.891
402C	5.41	34.05		700	4.35	34.28	27.20	94.5	.989
501C	4.94	34.13							
603C	4.60	34.21							
700C	4.35	34.28							

YH 45 44 19.0 N 125 08.9 W DATE 20 APR 71 0255 GCT WIRE
DRY 49.0 WET 47.5 CRUISE Y71048 WIND DIRECTION 18 VEL 18 KTS BAR 12
SWELL DIRECTION 28 H 04 T 09 CLOUD 8 AMT 8 WEATHER 03

180C	6.59	33.91
203C	6.39	33.92
251C	5.85	33.95
301C	5.80	34.03
400C	4.75	34.00
501C	4.92	34.18
600C	4.62	34.27
700C	4.22	34.31
801C	4.06	34.32
1000C	3.56	34.47

YH 35 44 19.0 N 124 54.5 W DATE 20 APR 71 0529 GCT WIRE
DRY 46.7 WET 46.3 CRUISE Y71048 WIND DIRECTION 25 VEL 12 KTS BAR 12
SWELL DIRECTION 28 H 06 T 08 CLOUD 5 AMT 8 WEATHER 03

0C	9.06	32.55		0	9.06	32.55	25.22	276.2	0
2C	9.06	32.55		10	9.07	32.59	25.25	273.6	.027
10C	9.07	32.59		20	9.06	32.58	25.25	274.3	.055
20C	9.06	32.58		30	8.79	32.60	25.30	269.0	.082
30C	8.79	32.60		50	8.70	32.60	25.32	268.0	.136
50C	8.70	32.60		75	8.08	33.48	26.09	194.8	.194
66C	8.14	33.30		100	7.93	33.78	26.36	170.0	.239
76C	8.08	33.49		150	7.27	33.96	26.59	149.0	.319
89C	7.97	33.70		200	6.52	34.02	26.74	135.0	.390
100C	7.92	33.78		250	6.17	34.04	26.80	129.2	.456

0C	8.61	32.58		0	8.61	32.58	25.32	267.4	0
1C	8.61	32.58		10	8.61	32.58	25.32	267.6	.027
10C	8.61	32.58		20	8.61	32.57	25.30	268.7	.054
21C	8.61	32.57		30	8.61	32.59	25.32	267.8	.080
32C	8.61	32.59		50	8.57	32.59	25.33	267.2	.134
53C	8.56	32.59		75	8.08	32.75	25.52	248.8	.198
64C	8.50	32.60		100	7.96	33.50	26.13	191.4	.253
76C	8.04	32.77		150	7.45	33.90	26.51	155.8	.340
93C	7.99	33.41		200	6.99	33.98	26.64	144.4	.415
103C	7.95	33.53		250	6.34	33.98	26.73	136.3	.485
153C	7.41	33.91		300	5.76	34.00	26.82	128.4	.551
202C	6.97	33.98		400	4.77	34.05	26.98	113.5	.672
253C	6.30	33.98		500	4.83	34.19	27.08	105.0	.782
300C	5.75	33.99		600	4.62	34.30	27.19	95.3	.882
407C	4.73	34.06		700	4.27	34.33	27.25	89.8	.974
501C	4.83	34.19		800	3.99	34.38	27.32	83.8	1.061
602C	4.61	34.30		1000	3.51	34.51	27.47	70.2	1.215
702C	4.26	34.33							
802C	3.99	34.38							
1002C	3.51	34.51							

FH 55 43 59.0 N 125 24.5 W DATE 20 APR 71 1800 GCT WIRE
DRY 46.7 WET 42.2 CRUISE Y71048 WIND DIRECTION 32 VEL 18 KTS BAR 17
SWELL DIRECTION 28 H 06 T 09 CLOUD 8 AMT 4 WEATHER 01

0C	8.95	32.63		0	8.95	32.63	25.30	268.7	0
3C	8.95	32.63		10	8.94	32.62	25.30	269.4	.027
13C	8.94	32.62		20	8.94	32.60	25.28	271.2	.054
21C	8.94	32.60		30	8.93	32.60	25.28	271.4	.081
33C	8.92	32.60		50	8.83	32.60	25.29	270.3	.135
52C	8.80	32.60		75	8.06	32.65	25.45	256.1	.201
62C	8.43	32.55		100	7.97	33.55	26.17	187.8	.256
76C	8.04	32.67		150	7.67	33.86	26.45	161.8	.344
88C	8.02	33.34		200	7.13	33.92	26.58	150.5	.422
101C	7.96	33.56		250	6.48	33.96	26.69	139.8	.494
153C	7.65	33.86		300	5.91	33.98	26.78	131.6	.562
201C	7.12	33.92		400	4.94	34.03	26.94	117.3	.687
254C	6.43	33.96		500	4.50	34.12	27.06	106.7	.799
304C	5.87	33.98		600	4.11	34.19	27.16	97.7	.901
403C	4.92	34.03		700	4.22	34.31	27.24	90.9	.995
505C	4.49	34.12		800	4.03	34.38	27.32	84.3	1.083
603C	4.10	34.19							
702C	4.22	34.31							
804C	4.02	34.38							

FH 65 43 58.8 N 125 38.3 W DATE 20 APR 71 2049 GCT WIRE
DRY 44.9 WET 40.5 CRUISE Y71048 WIND DIRECTION 32 VEL 18 KTS BAR 18
SWELL DIRECTION 28 H 06 T 08 CLOUD 8 AMT 4 WEATHER 02

0C	8.97	32.59		0	8.97	32.59	25.27	271.9	0
1C	8.97	32.59		10	8.96	32.63	25.29	269.6	.027
11C	8.96	32.63		20	8.96	32.59	25.27	272.1	.054
20C	8.96	32.59		30	8.94	32.61	25.29	270.5	.081
30C	8.94	32.61		50	8.93	32.61	25.29	271.0	.135
52C	8.93	32.61		75	8.68	32.67	25.37	263.0	.202
63C	8.91	32.61		100	8.14	33.30	25.95	208.8	.261
75C	8.68	32.67		150	7.69	33.75	26.37	169.8	.356
87C	8.50	33.01		200	7.26	33.92	26.56	152.6	.436
100C	8.14	33.30		250	6.86	33.95	26.64	145.4	.511
150C	7.69	33.75		300	6.16	33.99	26.76	134.0	.581
200C	7.25	33.91		400	5.20	34.03	26.91	120.3	.708
251C	6.85	33.95		500	4.54	34.10	27.04	108.4	.822

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
301C	6.15	33.99		600	4.21	34.19	27.15	98.9	.926
402C	5.19	34.03		700	4.22	34.33	27.25	89.5	1.020
503C	4.52	34.18		800	4.01	34.38	27.32	83.9	1.106
602C	4.21	34.19							
703C	4.22	34.33							
803C	4.00	34.38							

FH 75 43 58.7 N 125 52.0 W DATE 20 APR 71 2305 GCT WIRE
DRY 48.5 WET 44.0 CRUISE Y7104B WIND DIRECTION 31 VEL 18 KTS BAR 19
SWELL DIRECTION 28 H 06 T 08 CLOUD 8 AMT 4 WEATHER 02

0C	9.14	32.61	0	9.14	32.61	25.26	273.0	0
3C	9.14	32.61	10	9.13	32.63	25.27	272.1	.027
12C	9.13	32.63	20	9.10	32.61	25.26	273.4	.055
21C	9.10	32.60	30	9.06	32.53	25.20	278.8	.082
31C	9.06	32.52	50	9.03	32.58	25.25	274.5	.137
51C	9.03	32.59	75	8.71	32.63	25.34	266.7	.205
63C	8.91	32.61	100	8.35	33.21	25.84	219.2	.266
76C	8.69	32.63	150	7.99	33.79	26.36	171.1	.363
88C	8.55	32.65	200	7.33	33.92	26.55	153.4	.444
100C	8.35	33.20	250	6.53	33.92	26.66	142.8	.518
150C	7.99	33.79	300	6.17	34.01	26.78	132.3	.587
201C	7.31	33.92	400	5.39	34.05	26.90	121.0	.714
250C	6.52	33.92	500	4.40	34.04	27.01	111.1	.830
303C	6.16	34.02	600	4.42	34.18	27.12	101.9	.936
403C	5.36	34.05	700	4.28	34.27	27.20	94.5	1.034
503C	4.38	34.04	800	4.02	34.34	27.28	87.2	1.125
601C	4.42	34.18	1000	3.47	34.49	27.46	71.1	1.283
701C	4.28	34.27						
805C	4.00	34.34						
1000C	3.47	34.49						

FH 85 43 58.8 N 126 05.8 W DATE 21 APR 71 0130 GCT WIRE
DRY 46.0 WET 41.0 CRUISE Y7104B WIND DIRECTION 30 VEL 18 KTS BAR 19
SWELL DIRECTION 28 H 06 T 07 CLOUD 8 AMT 4 WEATHER 02

0C	9.31	32.66	0	9.31	32.67	25.27	271.8	0
1C	9.31	32.66	10	9.31	32.66	25.27	272.3	.027
12C	9.31	32.66	20	9.32	32.65	25.26	273.0	.054
27C	9.32	32.65	30	9.31	32.65	25.26	273.4	.082
38C	9.28	32.65	50	9.24	32.65	25.27	272.4	.136
50C	9.24	32.65	75	9.14	32.65	25.28	271.6	.204
66C	9.23	32.65	100	8.51	33.31	25.90	213.6	.265
79C	9.07	32.65	150	8.00	33.84	26.39	167.7	.360
91C	8.63	32.96	200	7.69	33.94	26.52	156.5	.441
102C	8.49	33.39	250	7.12	33.99	26.63	146.0	.517
153C	7.98	33.87	300	6.63	34.02	26.72	137.9	.588
200C	7.69	33.94	400	5.82	34.07	26.87	124.5	.719
251C	7.11	33.99	500	5.16	34.16	27.02	111.3	.837
305C	6.58	34.02	600	4.78	34.25	27.14	100.4	.943
400C	5.82	34.07	700	4.50	34.31	27.21	94.2	1.040
502C	5.15	34.16	800	4.11	34.39	27.32	84.5	1.129
600C	4.77	34.25	1000	3.45	34.47	27.45	72.3	1.286
704C	4.49	34.31						
801C	4.11	34.39						
1000C	3.45	34.47						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

FH 105 43 59.0 N 126 33.5 W DATE 21 APR 71 0500 GCT WIRE
DRY 44.8 WET 41.2 CRUISE Y7104B WIND DIRECTION 22 VEL 14 KTS BAR 20
SWELL DIRECTION 28 H 06 T 09 CLOUD 8 AMT 3 WEATHER 02

0C	9.23		0	9.23	32.67	25.28	270.6	0
4C	9.23		10	9.23	32.66	25.28	271.1	.027
12C	9.23	32.64	20	9.23	32.63	25.26	273.5	.054
21C	9.23	32.63	30	9.19	32.63	25.26	273.1	.082
32C	9.18	32.63	50	9.15	32.63	25.27	272.8	.136
56C	9.14	32.63	75	8.31	32.70	25.45	255.4	.202
63C	8.64	32.66	100	8.13	33.08	25.78	225.1	.262
80C	8.29	32.73	150	7.34	33.78	26.44	162.8	.359
90C	8.29	32.83	200	6.85	33.89	26.59	149.1	.437
101C	8.11	33.11	250	6.16	33.93	26.72	137.3	.509
151C	7.33	33.79	300	5.61	33.96	26.80	129.6	.575
201C	6.84	33.89	400	5.11	34.08	26.96	115.1	.698
250C	6.15	33.93	500	4.73	34.17	27.07	105.4	.808
306C	5.56	33.96	600	4.47	34.23	27.15	98.7	.910
400C	5.11	34.08	700	4.08	34.28	27.23	91.5	1.005
503C	4.72	34.17	800	3.87	34.33	27.29	86.2	1.094
602C	4.46	34.23						
704C	4.07	34.28						
803C	3.87	34.33						

UH 105 43 39.0 N 126 37.0 W DATE 21 APR 71 0807 GCT WIRE
DRY 44.9 WET 41.1 CRUISE Y7104B WIND DIRECTION 31 VEL 06 KTS BAR 20
SWELL DIRECTION 28 H 06 T 08 CLOUD 8 AMT 2 WEATHER 01

0C	9.21	32.66	0	9.21	32.67	25.28	270.3	0
1C	9.21	32.66	10	9.23	32.67	25.29	270.0	.027
10C	9.23	32.67	20	9.23	32.64	25.27	272.5	.054
21C	9.23	32.64	30	9.23	32.63	25.26	273.6	.081
31C	9.23	32.63	50	9.06	32.65	25.30	269.7	.136
50C	9.06	32.65	75	8.46	32.67	25.40	260.5	.202
62C	8.96	32.65	100	8.17	33.07	25.76	226.8	.263
75C	8.46	32.66	150	7.47	33.73	26.38	168.2	.362
89C	8.33	32.81	200	6.88	33.93	26.62	146.0	.440
106C	8.08	33.22	250	6.24	33.95	26.72	137.4	.511
150C	7.47	33.73	300	5.83	33.99	26.80	129.9	.576
200C	6.87	33.93	400	5.22	34.06	26.94	117.9	.702
252C	6.22	33.95	500	4.89	34.19	27.07	105.9	.813
303C	5.81	33.99	600	4.45	34.24	27.16	97.9	.915
400C	5.22	34.06	700	4.13	34.30	27.24	90.5	1.009
503C	4.88	34.19	800	3.85	34.39	27.35	81.0	1.095
605C	4.43	34.24	1000	3.32	34.46	27.45	71.7	1.248
701C	4.13	34.30						
800C	3.85	34.39						
1001C	3.32	34.46						

UH 85 43 39.0 N 126 08.6 W DATE 21 APR 71 1120 GCT WIRE
DRY 45.0 WET 40.0 CRUISE Y7104B WIND DIRECTION 31 VEL 04 KTS BAR 20
SWELL DIRECTION 28 H 04 T 08 CLOUD 8 AMT 2 WEATHER 02

0C	9.15	32.63	0	9.15	32.63	25.27	271.6	0
1C	9.15	32.63	10	9.15	32.66	25.29	269.8	.027
13C	9.15	32.67	20	9.15	32.65	25.29	270.5	.054

OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
20C	9.15	32.65		30	9.15	32.64	25.28	271.4	.081
30C	9.15	32.64		50	9.07	32.64	25.29	270.6	.135
50C	9.07	32.64		75	8.66	32.64	25.35	265.1	.202
65C	8.94	32.65		100	8.32	33.39	25.99	205.1	.261
77C	8.59	32.64		150	7.89	33.83	26.40	166.9	.354
88C	8.17	32.75		200	7.13	33.94	26.60	148.6	.433
103C	8.39	33.57		250	6.54	33.99	26.71	138.3	.505
157C	7.74	33.87		300	5.80	33.96	26.78	131.5	.572
200C	7.12	33.94		400	4.89	34.02	26.93	117.7	.697
253C	6.51	33.99		500	4.77	34.15	27.06	106.9	.809
303C	5.76	33.96		600	4.45	34.25	27.16	97.4	.911
404C	4.87	34.02		700	4.33	34.34	27.25	90.0	1.005
504C	4.77	34.16		800	4.09	34.39	27.32	84.2	1.092
600C	4.45	34.24							
703C	4.33	34.34							
801C	4.09	34.39							

UH 65 43 39.0 N 125 41.6 W DATE 21 APR 71 1417 GCT WIRE
DRY 46.5 WET 42.0 CRUISE Y7104B WIND DIRECTION VEL 00 KTS BAR 19
SWELL DIRECTION 31 H 05 T 08 CLOUD 8 AMT 2 WEATHER 02

0C	9.29	32.20	0	9.29	32.21	24.91	305.7	0
1C	9.29	32.20	10	9.31	32.18	24.89	307.6	.031
12C	9.31	32.18	20	9.30	32.33	25.01	296.9	.061
21C	9.30	32.35	30	9.21	32.44	25.11	287.5	.090
34C	9.16	32.46	50	9.06	32.48	25.16	282.7	.147
53C	9.00	32.48	75	8.17	33.19	25.85	217.6	.210
65C	8.41	32.84	100	7.91	33.66	26.26	178.9	.259
77C	8.14	33.25	150	7.42	33.91	26.52	154.8	.343
91C	8.09	33.53	200	6.83	33.93	26.63	145.8	.418
103C	7.84	33.70	250	6.16	33.93	26.71	137.7	.489
151C	7.42	33.91	300	5.61	33.94	26.79	130.5	.556
205C	6.76	33.93	400	5.42	34.10	26.94	117.5	.680
253C	6.12	33.93	500	4.89	34.20	27.08	105.1	.791
300C	5.61	33.94	600	4.59	34.26	27.17	97.5	.892
404C	5.41	34.11	700	4.33	34.33	27.25	90.2	.986
504C	4.87	34.20	800	4.06	34.39	27.33	83.5	1.073
600C	4.59	34.26	1000	3.47	34.49	27.46	71.1	1.227
700C	4.33	34.33						
800C	4.06	34.39						
1000C	3.47	34.49						

OBSERVED									INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)

1 45 36.2 N 122 46.5 W DATE 11 JUN 71 1432 GCT WIRE DRY 55.5 WET 55.2 CRUISE Y7106B
WIND DIRECTION VEL 00 KTS BAR 17 SWELL DIRECTION H T CLOUD 6 AMT 6 WEATHER

0				1.41				4.9	150						
3	14.53		6.45	1.43				15.5							
10	14.35		6.49	1.24				15.0							

2 45 39.3 N 122 45.4 W DATE 11 JUN 71 1608 GCT WIRE DRY 54.2 WET 52.1 CRUISE Y7106B
WIND DIRECTION VEL 00 KTS BAR 17 SWELL DIRECTION H T CLOUD 6 AMT 8 WEATHER 03

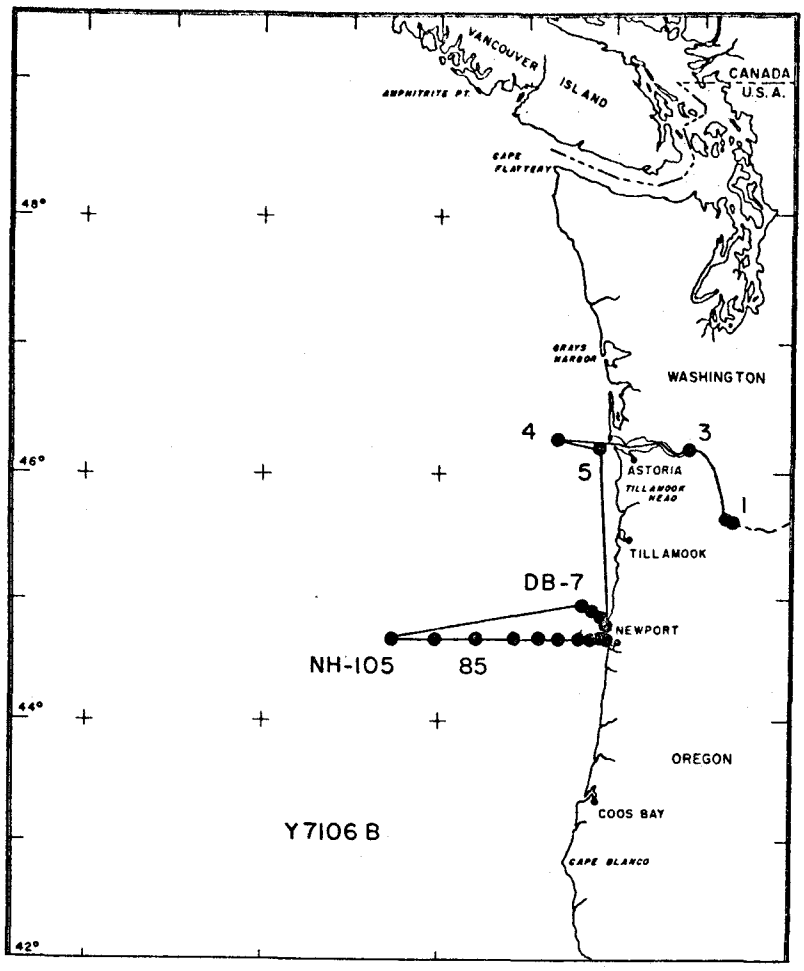
0	13.29		9.03	.80				4.8	134						

3 46 11.0 N 123 10.8 W DATE 11 JUN 71 1945 GCT WIRE 30 DRY 59.7 WET 54.7 CRUISE Y7106B
WIND DIRECTION 25 VEL 04 KTS BAR 17 SWELL DIRECTION H T CLOUD 6 AMT 8 WEATHER 02

0	0			0.80				5.2	145						
3	13.43		8.78	1.60				5.4	142						

4 46 15.1 N 124 39.0 W DATE 11 JUN 71 2353 GCT WIRE 04 DRY 57.0 WET 52.6 CRUISE Y7106B
WIND DIRECTION 22 VEL 08 KTS BAR 17 SWELL DIRECTION H T CLOUD 6 AMT 2 WEATHER 01

0	13.86		8.10						1.89						
5	10.83		6.43						1.89						



	OBSERVED									INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (μM)	pH	Alk. (meq/l)	NO_3 (μM)	SiO_2 (μM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
	5 46 10.5 N 124 11.0 W				DATE 12 JUN 71 0337 GCT			WIRE		DRY 57.5 WET 53.8 CRUISE Y7106B					
WIND DIRECTION 22 VEL 09 KTS					BAR 16		SWELL DIRECTION29 H 03 T 05			CLOUD 6 AMT 2 WEATHER 02					
0	14.08	23.867	7.01	.25	8.358	2.040	.2	34	1.70	0	14.08	23.87	17.64	1002.9	0
4	12.90	25.590	7.46	.12	8.370	2.140	.1	26	1.77	10	9.32	31.95	24.71	324.8	.066
7	10.57	30.303	7.31	.48	8.262	2.280	2.7	11	1.98	20	7.67	32.52	25.40	259.4	.096
10	9.32	31.949	6.68	.91	8.167	2.340	5.8	7	2.13	30	7.53	33.13	25.90	212.0	.119
20	7.66	32.512	5.06	1.61	8.014	2.440	17.5	24	2.13						
30	7.52	33.125	3.89	2.22	7.877	2.490	22.2	30	2.11						
45	7.21	33.652	2.19	2.50	7.725	2.510	29.8	46	2.25						
NH 1 44 39.0 N 124 06.2 W					DATE 13 JUN 71 1430 GCT			WIRE		DRY 53.0 WET 53.0 CRUISE Y7106B					
WIND DIRECTION 20 VEL 18 KTS					BAR 16		SWELL DIRECTION23 H 04 T 07			CLOUD 6 AMT 6 WEATHER 01					
0	12.69	30.200	7.21	.13			.3	9	1.66	0	12.69	30.21	22.77	509.7	0
4	12.69	30.203	7.15	.16			.4	10	1.91	10	12.66	30.22	22.79	508.3	.051
7	12.68	30.203	7.14	.15			.1	9	1.91	20	9.89	33.05	25.48	252.1	.089
10	12.66	30.215	7.16	.15			.2	9	1.93						
15	12.67	30.258	7.19	.18			.0	9	1.93						
20	9.89	33.050	6.74	.88			6.1	16	2.10						
NH 5 44 39.4 N 124 10.6 W					DATE 13 JUN 71 1900 GCT			WIRE 06		DRY 56.1 WET 54.2 CRUISE Y7106B					
WIND DIRECTION 20 VEL 20 KTS					BAR 17		SWELL DIRECTION20 H 04 T 06			CLOUD 6 AMT 8 WEATHER 62					
0	12.54	30.344	7.00	.29			-.0	8	1.92	0	12.54	30.35	22.91	496.4	0
5	12.52	30.336	7.00	.23			-.1	8	1.94	10	12.13	30.93	23.44	446.6	.047
10	12.13	30.924	7.04	.15			.0	8	1.96	20	9.21	32.92	25.48	251.5	.082
15	9.33	32.235	5.88	1.20			10.6	18	2.10	30	7.84	33.59	26.22	182.1	.104
20	9.21	32.916	6.70	1.04			9.6	16	2.05	50	7.27	33.84	26.50	155.8	.138
30	7.84		2.79	2.27			26.1	37	2.21						
40	7.38	33.769	2.14	2.48			31.4	48	2.23						
50	7.26	33.836	1.66	2.59			31.4	52	2.22						

D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
OBSERVED										**INTERPOLATED**			**COMPUTED**		

NH 10 44 39.1 N 124 17.9 W DATE 13 JUN 71 2021 GCT WIRE 00 DRY 53.8 WET 52.0 CRUISE Y7106B
WIND DIRECTION 20 VEL 18 KTS BAR 18 SWELL DIRECTION22 H 04 T 06 CLOUD 8 AMT 7 WEATHER 02

0	13.04	29.004	6.51	.26			.1	9	2.00	0	13.04	29.01	21.78	604.3	0
5	13.00	30.027	6.51	.26			.3	9	1.98	10	12.80	30.30	22.83	504.7	.055
10	12.80	30.298	6.66	.26			.2	8	1.94	20	9.31	31.97	24.73	323.7	.097
20	9.31	31.963	6.77	.74			3.5	6	2.08	30	7.75	32.55	25.42	258.0	.126
31	7.67	32.582	5.54	1.25			13.7	15	2.13	50	7.40	33.61	26.29	175.1	.169
50	7.39	33.601	2.79	2.24			29.6	40	2.21						
60	7.15	33.825	2.39	2.40			31.6	47	2.26						

NH 15 44 39.0 N 124 24.5 W DATE 14 JUN 71 0347 GCT WIRE DRY 56.1 WET 52.1 CRUISE Y7106B
WIND DIRECTION 22 VEL 15 KTS BAR 20 SWELL DIRECTION22 H 04 T 05 CLOUD 6 AMT 3 WEATHER 01

0	12.89	29.261	6.52	.31			.2	13	1.96	0	12.89	29.27	22.01	582.6	0
5	12.68	29.329	6.58	.34			.1	12	1.92	10	10.97	30.56	23.36	453.8	.052
15	9.04	31.933	6.52	.93			7.4	13	2.04	20	8.30	32.28	25.13	285.5	.089
25	7.97	32.340	5.78	1.27			11.0	14	2.07	30	7.75	32.47	25.35	264.4	.116
36	7.64	32.606	5.97	1.17			11.1	14	2.07	50	7.62	33.10	25.87	215.6	.164
45	7.55	32.888	5.01	1.50			16.6	21	2.09	75	7.28	33.67	26.36	169.1	.212
55	7.68	33.294	4.13	1.97			22.4	29	2.15						
65	7.50	33.423	3.53	2.43			27.7	39	2.18						
75	7.27	33.665	2.78	2.51			30.6	45	2.22						

NH 25 44 38.8 N 124 38.6 W DATE 14 JUN 71 0645 GCT WIRE DRY 55.0 WET 52.1 CRUISE Y7106B
WIND DIRECTION 25 VEL 14 KTS BAR 21 SWELL DIRECTION25 H 04 T 07 CLOUD 8 AMT 2 WEATHER 01

0C	13.11	28.31								0	13.11	28.31	21.24	656.8	0
1C	13.11	28.31								10	10.98	31.30	23.93	399.1	.053
10C	10.98	31.30								20	9.46	32.22	24.90	307.2	.088
21C	9.35	32.23								30	8.67	32.50	25.24	274.5	.117
33C	8.52	32.54								50	7.82	32.69	25.52	248.6	.169
50C	7.81	32.69								75	7.80	33.22	25.94	209.3	.227
63C	7.80	32.95								100	7.57	33.66	26.31	174.1	.275
75C	7.79	33.22								150	7.10	33.85	26.53	154.4	.357
87C	7.74	33.50													
101C	7.56	33.67													
150C	7.10	33.85													

NH 25 44 38.8 N 124 38.6 W DATE 14 JUN 71 0726 GCT WIRE 02 DRY 55.0 WET 52.1 CRUISE Y7106B
WIND DIRECTION 25 VEL 14 KTS BAR 21 SWELL DIRECTION25 H 04 T 07 CLOUD 8 AMT 2 WEATHER 01

0A	13.13	28.131	6.34		8.264		.2	16	1.97	0	13.13	28.14	21.10	670.4	0
10A	11.66	30.181	6.68	.39	8.237		.1	10	2.02	10	11.66	30.19	22.95	493.3	.058
20A	9.80	31.880	6.84	.52	8.194		.6	7	2.05	20	9.80	31.88	24.58	337.4	.100
30A	9.15	32.284	6.54	.73	8.103		3.3	8	2.07	30	9.15	32.29	25.00	297.7	.131
50A	8.00	32.550	6.25	.91	8.142		7.8	10	2.13	50	8.00	32.55	25.38	261.6	.187
75A	7.82	32.974	5.13	1.40	8.055		15.7	19	2.12	75	7.82	32.98	25.74	228.0	.249
100A	7.58	33.671	3.28	2.15	7.851		28.1	37	2.18	100	7.58	33.68	26.32	173.2	.299
125A	7.34	33.818	2.93	2.29	7.853		29.7	41	2.19	150	7.04	33.91	26.58	149.1	.379
150A	7.03	33.905	2.50	2.51	7.774		32.4	47	2.20	200	6.26	33.99	26.75	134.0	.450
200A	6.26	33.987	1.91	2.80	7.766		36.2	59	2.19						

NH 35 44 39.5 N 124 52.5 W DATE 14 JUN 71 1103 GCT WIRE 02 DRY 54.8 WET 51.8 CRUISE Y7106B
WIND DIRECTION 25 VEL 08 KTS BAR 23 SWELL DIRECTION25 H 03 T 07 CLOUD 8 AMT 2 WEATHER 02

0A	13.39	27.223	6.31	.21	8.254		.2	20	1.86	0	13.39	27.23	20.35	742.1	0
10A	11.24	31.915	6.75	.38	8.256		.1	4	2.01	10	11.24	31.92	24.36	358.0	.055
21A	10.04	32.599	6.82	.60	8.204		1.6	5	2.09	20	10.10	32.54	25.04	293.8	.088
31A	9.84	32.606	6.60	.68	8.161		3.1	6	2.04	30	9.85	32.61	25.14	284.8	.117
50A	8.91	32.642	6.33	.65	8.183		3.0	6	2.08	50	8.91	32.65	25.32	267.9	.172
75A	8.07	33.084	4.80	1.72	8.017		18.0	23	2.15	75	8.07	33.09	25.79	223.3	.233
101	7.58	33.569	3.82	1.94			23.5	31	2.13	100	7.59	33.55	26.22	182.5	.284
150A	7.21	33.872	3.26		7.918		28.4	41	2.25	150	7.21	33.88	26.53	154.0	.368
200A	6.71	33.936	2.71	2.49	7.832		32.1	49	2.23	200	6.71	33.94	26.65	143.3	.442
251A	6.24	33.958	2.39		7.790				2.27	250	6.25	33.96	26.72	136.7	.512
275	6.13	34.002	1.90	2.59			34.7	59	2.27	300	5.96	34.03	26.82	128.2	.578
300	5.96	34.028	1.66	2.78			33.8	59	2.26	400	5.39	34.09	26.94	118.2	.702
325	5.84	34.043	1.59	2.86			39.3	67	2.22						
350	5.67	34.062	1.40						2.27						
375	5.52	34.071	1.29	2.98			41.3	74	2.31						
401	5.38	34.092	1.11	3.01			39.7	77							

NH 35 44 39.5 N 124 52.5 W DATE 14 JUN 71 1103 GCT WIRE DRY 54.8 WET 51.8 CRUISE Y7106B
WIND DIRECTION 25 VEL 08 KTS BAR 23 SWELL DIRECTION25 H 03 T 07 CLOUD 8 AMT 2 WEATHER 02

0C	13.41	27.44								0	13.41	27.44	20.51	726.5	0
1C	13.41	27.44								10	11.46	31.46	23.97	395.3	.056
11C	11.17	32.02								20	10.27	32.60	25.06	292.2	.090
21C	10.22	32.66								30	9.83	32.64	25.16	282.4	.119
32C	9.76	32.63								50	9.26	32.64	25.26	273.7	.175
53C	9.17	32.64								75	8.22	32.94	25.65	236.2	.239
63C	8.70	32.75								100	7.86	33.63	26.24	180.9	.291

OBSERVED										INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
77C	8.16	32.98								150	7.24	33.92	26.56	151.6	.374
87C	8.06	33.19								200	6.78	33.96	26.66	142.8	.447
100C	7.86	33.62								250	6.26	33.99	26.75	134.5	.517
150C	7.24	33.91								300	5.97	34.04	26.83	127.4	.582
202C	6.76	33.96								400	5.42	34.11	26.95	117.4	.704
251C	6.25	33.99								500	5.04	34.18	27.05	108.0	.817
300C	5.97	34.04													
403C	5.41	34.11													
501C	5.04	34.18													

NH 45 44 39.7 N 125 09.4 W DATE 14 JUN 71 1600 GCT WIRE DRY 53.9 WET 51.3 CRUISE Y71068
WIND DIRECTION 27 VEL 08 KTS BAR 24 SWELL DIRECTION27 H 04 T 06 CLOUD 6 AMT 2 WEATHER 02

0C	13.19	29.030								0	13.19	29.03	21.78	605.1	0
1C	13.19	29.03								10	12.08	31.43	23.83	408.6	.051
13C	11.59	32.39								20	11.10	32.56	24.89	308.2	.087
21C	11.05	32.59								30	10.62	32.66	25.05	293.5	.117
33C	10.51	32.66								50	9.95	32.65	25.16	283.4	.174
51C	9.92	32.65								75	8.54	32.81	25.51	250.3	.241
66C	9.22	32.62								100	8.13	33.36	26.00	204.0	.298
76C	8.47	32.84								150	7.51	33.85	26.47	160.2	.389
88C	8.34	33.06								200	6.99	33.96	26.63	145.2	.465
101C	8.11	33.39								250	6.44	33.96	26.71	138.5	.536
152C	7.49	33.85								300	5.67	33.98	26.81	128.6	.603
200C	6.99	33.96								400	5.17	34.06	26.94	118.0	.726
250C	6.43	33.96								500	4.73	34.14	27.05	106.9	.838
304C	5.61	33.98								600	4.62	34.29	27.18	96.6	.940
401C	5.17	34.06													
500C	4.73	34.14													
602C	4.62	34.29													

NH 45 44 39.7 N 125 09.4 W DATE 14 JUN 71 1643 GCT WIRE 0 DRY 53.9 WET 51.3 CRUISE Y71068
WIND DIRECTION 27 VEL 08 KTS BAR 24 SWELL DIRECTION27 H 04 T 06 CLOUD 6 AMT 2 WEATHER 02

0	13.29	28.418	6.20	.31	8.269	.3	15	1.81	0	13.29	28.42	21.29	652.1	0	
10A	11.64	32.056	6.64	.39	8.265	.1	4	1.99	10	11.64	32.06	24.40	354.5	.050	
20A	11.04	32.496	6.85	.43	8.240	.1	2	2.04	20	11.04	32.50	24.85	311.9	.084	
30	10.46	32.606	6.65	.51		.0	15		30	10.46	32.61	25.04	294.4	.114	
50	9.85	32.624	6.59	.68		3.1	5	2.07	50	9.85	32.63	25.15	283.6	.172	
75	8.70	32.699	6.12	.91		7.7	9	2.12	75	8.70	32.70	25.39	261.0	.240	
100	8.26	33.206	4.76	1.46		17.5	21	2.14	100	8.26	33.21	25.86	217.3	.300	
150	7.63	33.803	3.60	1.93		25.5	35	2.16	150	7.64	33.81	26.42	164.9	.395	
201	7.01	33.940	2.88	2.24		30.4	45	2.32	200	7.02	33.94	26.61	147.6	.473	
251	6.47	33.958	2.46	2.46		33.5	53	2.28	250	6.48	33.96	26.69	139.7	.545	
276	6.18	33.961	2.28	2.56		34.7	57	2.34	300	5.69	33.94	26.78	131.7	.613	
301	5.67	33.939	2.27	2.65		36.2	62	2.37	400	5.22	34.03	26.91	120.9	.739	
326	5.52	33.947	2.11	2.72		37.2	66	2.30	500	4.79	34.10	27.01	110.9	.855	
351	5.33	33.968	1.83	2.84		38.7	70	2.36	600	4.64	34.24	27.14	100.6	.961	
376	5.28	34.002	1.57	2.92		40.1	75	2.19	700	4.32	34.31	27.23	91.8	1.057	
402	5.21	34.029	1.39					2.31							
502	4.78	34.101	.89	3.13		41.2	86	2.38							
603	4.64	34.240	.56	3.25		43.6	96	2.36							
702	4.31	34.312	.42	3.27		44.3	108	2.44							

NH 65 44 39.0 N 125 35.0 W DATE 14 JUN 71 2221 GCT WIRE 02 DRY 56.7 WET 52.2 CRUISE Y71068
WIND DIRECTION 29 VEL 02 KTS BAR 26 SWELL DIRECTION26 H 03 T 07 CLOUD 8 AMT 2 WEATHER 01

0A	13.40	32.298	6.48	.44	8.201	.6	3		0	13.40	32.30	24.25	368.5	0	
10A	12.02	32.313	6.58		8.225		22		10	12.02	32.32	24.53	342.2	.036	
20A	11.78	32.398	6.69	.44	8.207	.4	2		20	11.78	32.40	24.64	331.9	.069	
50A	10.42	32.621	6.62	.54	8.200	1.6	3		30	11.40	32.49	24.78	319.1	.102	
75A	8.96	32.608	6.48	.78	8.167	5.1	7		50	10.42	32.63	25.06	293.0	.163	
100A	8.44	32.974	5.40	1.16	8.084	13.2	16		75	8.96	32.61	25.28	271.6	.234	
150A	7.82	33.713	3.82	1.86	7.941	24.6	31		100	8.44	32.98	25.65	237.2	.297	
200A	7.20	33.906	3.37	2.06	7.904	28.1	39		150	7.82	33.72	26.32	174.2	.400	
251A	6.42	33.920	2.86	2.31	7.832	32.1	49		200	7.20	33.91	26.56	152.1	.481	
276A	6.13	33.933	2.51	2.47	7.803	34.0	55		250	6.43	33.92	26.67	141.9	.555	
300A	5.87	33.940	2.30	2.57	7.777	35.4	58		300	5.88	33.94	26.76	133.6	.624	
326A	5.69	33.957	2.07	2.69	7.748	36.9	63		400	5.16	34.01	26.90	121.8	.751	
350A	5.48	33.968	1.90	2.76	7.725	36.8	67		500	4.72	34.09	27.01	110.8	.868	
375A	5.22	33.975	1.69	2.81	7.704	39.3	71		600	4.24	34.16	27.12	101.7	.974	
401A	5.16	34.007	1.38	2.95	7.682	40.5	75		700	4.01	34.24	27.21	93.7	1.072	
600A	4.24	34.154	.68	3.21	7.630	44.5	101		800	3.86	34.32	27.29	86.7	1.162	
800A	3.86	34.314	.35	3.34	7.617	45.8	118		1000	3.54	34.41	27.39	78.1	1.326	
1000A	3.53	34.401	.40	3.34	7.638	46.6	131		1200	3.14	34.46	27.47	70.2	1.475	
1400A	2.68	34.505	.80	3.26	7.680	46.2	156								

NH 65 44 39.0 N 125 35.0 W DATE 14 JUN 71 2221 GCT WIRE DRY 56.7 WET 52.2 CRUISE Y71068
WIND DIRECTION 29 VEL 02 KTS BAR 26 SWELL DIRECTION26 H 03 T 07 CLOUD 8 AMT 2 WEATHER 01

0C	12.88	32.43							0	12.88	32.43	24.46	349.0	0	
1C	12.88	32.43							10	12.11	32.39	24.57	338.6	.034	
12C	11.90	32.38							20	11.87	32.44	24.65	330.8	.068	
21C	11.86	32.45							30	10.95	32.63	24.97	300.9	.099	
33C	10.61	32.69							50	10.39	32.70	25.12	287.0	.158	

OBSERVED										INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
51C	10.38	32.70								75	8.92	32.71	25.36	264.1	.227
62C	9.39	32.69								100	8.38	33.21	25.84	218.9	.287
75C	8.92	32.70								150	7.79	33.77	26.36	170.1	.385
90C	8.43	33.03								200	7.15	33.94	26.59	149.2	.464
101C	8.38	33.23								250	6.37	33.94	26.70	139.5	.537
154C	7.73	33.79								300	5.83	33.97	26.79	131.3	.604
202C	7.12	33.94								400	5.18	34.06	26.94	117.6	.729
251C	6.35	33.94								500	4.81	34.16	27.06	106.7	.841
302C	5.81	33.97								600	4.20	34.19	27.15	98.5	.943
400C	5.17	34.06								700	4.06	34.31	27.26	89.0	1.037
501C	4.81	34.16								800	3.84	34.36	27.32	83.4	1.123
600C	4.20	34.19								1000	3.44	34.49	27.46	70.9	1.278
701C	4.06	34.31													
802C	3.84	34.36													
1003C	3.43	34.49													

NH 85 44 39.0 N 126 03.0 W DATE 15 JUN 71 0400 GCT WIRE DRY 53.5 WET 51.0 CRUISE Y7106B
WIND DIRECTION 33 VEL 12 KTS BAR 26 SWELL DIRECTION28 H 04 T 06 CLOUD 8 AMT 4 WEATHER 03

0C	12.74	32.260								0	12.74	32.26	24.35	358.9	0
1C	12.74	32.26								10	12.01	32.29	24.51	343.8	.035
11C	11.88	32.30								20	10.72	32.43	24.85	311.5	.068
23C	10.38	32.49								30	10.10	32.63	25.11	287.5	.098
30C	10.10	32.62								50	9.42	32.67	25.25	274.0	.154
51C	9.39	32.67								75	8.55	32.80	25.50	251.3	.220
63C	8.97	32.70								100	8.30	33.49	26.07	197.5	.276
76C	8.52	32.82								150	7.84	33.89	26.45	161.8	.366
88C	8.31	33.22								200	7.09	33.97	26.62	146.4	.443
102C	8.30	33.52								250	6.51	34.02	26.74	135.5	.513
151C	7.83	33.89								300	6.07	34.05	26.82	128.0	.579
202C	7.06	33.97								400	5.44	34.13	26.96	116.1	.701
251C	6.50	34.02								500	4.86	34.16	27.05	107.4	.812
300C	6.07	34.05								600	4.54	34.26	27.17	97.7	.915
403C	5.42	34.13								700	4.18	34.32	27.25	89.6	1.008
503C	4.85	34.16								800	3.79	34.38	27.35	80.9	1.094
602C	4.53	34.26								1000	3.41	34.51	27.48	69.0	1.243
702C	4.17	34.32													
800C	3.78	34.38													
1000C	3.41	34.51													

NH 85 44 39.0 N 126 03.0 W DATE 15 JUN 71 0416 GCT WIRE DRY 53.5 WET 51.0 CRUISE Y7106B
WIND DIRECTION 33 VEL 12 KTS BAR 26 SWELL DIRECTION28 H 04 T 06 CLOUD 8 AMT 4 WEATHER 03

0A	12.46	32.124	6.44	.38	8.204	.3	3			0	12.46	32.13	24.30	363.8	0
20A	10.49	32.335	6.97	.47	8.216	.4	3			10	10.91	32.11	24.57	338.5	.035
30A	10.07	32.562	7.01	.48	8.217	.8	2			20	10.49	32.34	24.82	314.7	.068
50A	9.30	32.605	6.50	.73	8.167	4.0	5			30	10.07	32.57	25.07	291.3	.098
75A	8.74	32.671	6.26	1.28	8.144	7.3	7			50	9.30	32.61	25.23	276.5	.155
100A	8.30	33.279	4.62	1.56	8.004	18.8	22			75	8.74	32.68	25.37	263.6	.222
150A	7.94	33.813	3.39	1.94	7.887	26.4				100	8.30	33.28	25.91	212.5	.282
201A	7.29	33.926	2.93	2.14	7.830	29.8				150	7.94	33.82	26.38	168.5	.377
251A	6.67	33.960	2.47	2.35	7.779	33.3	115			200	7.30	33.92	26.56	152.5	.457
276A	6.42	33.971	2.37	2.46	7.768	34.3	134			250	6.68	33.96	26.67	142.1	.531
301	6.19		2.07	2.59		36.1				300	6.20	33.98	26.75	135.0	.600
326A	6.04	33.999	1.91	2.66	7.717	36.5	156			400	5.58	34.06	26.89	123.0	.729
351A	5.89	34.028	1.69	2.76	7.684	38	164			500	5.10	34.12	27.00	112.6	.847
376A	5.72	34.043	1.53	2.83	7.678	38.8	171			600	4.68	34.19	27.10	104.5	.955
402A	5.57	34.060	1.37	2.89	7.667	39.6	179			700	4.26	34.25	27.19	95.8	1.055
603A	4.67	34.191	.63	3.26	7.599	43.6	191			800	3.89	34.30	27.27	88.1	1.147
804A	3.88	34.306	.41	3.24	7.603	44.5				1000	3.46	34.40	27.39	77.4	1.313
1005A	3.45	34.406	.53	3.29	7.620	44.9	302			1200	3.03	34.46	27.48	69.3	1.459
1206A	3.02	34.462	.55	3.25	7.624	44.2	338								
1407A	2.61	34.513	.80	3.20	7.649	43.2	370								

NH 105 44 38.9 N 126 31.0 W DATE 15 JUN 71 1010 GCT WIRE DRY 53.4 WET 51.9 CRUISE Y7106B
WIND DIRECTION 35 VEL 12 KTS BAR 26 SWELL DIRECTION27 H 03 T 07 CLOUD 8 AMT 2 WEATHER 02

0C	12.26	32.51								0	12.26	32.51	24.64	331.7	0
1C	12.26	32.51								10	12.18	32.51	24.65	330.5	.033
10C	12.18	32.51								20	11.57	32.57	24.81	315.8	.065
20C	11.57									30	10.74	32.64	25.01	297.1	.096
35C	10.37	32.67								50	9.97	32.67	25.17	282.1	.154
50C	9.97	32.67								75	8.72	32.90	25.54	246.9	.220
64C	9.60	32.70								100	8.30	33.65	26.20	184.9	.274
77C	8.57	32.95								150	7.75	33.93	26.49	157.8	.360
92C	8.40	33.50								200	7.20	33.99	26.62	146.2	.436
104C	8.25	33.71								250	6.77	34.04	26.73	136.9	.506
151C	7.74	33.93								300	6.36	34.05	26.79	131.7	.574
201C	7.19	33.99								400	5.65	34.11	26.92	120.3	.699
250C	6.76	34.04								500	4.99	34.19	27.06	106.2	.813
300C	6.36	34.05								600	4.67	34.28	27.17	97.8	.915
405C	5.62	34.11								700	4.41	34.36	27.26	89.4	1.008
500C	4.99	34.19								800	4.10	34.41	27.33	82.7	1.094
602C	4.67	34.28								1000	3.42	34.48	27.46	71.3	1.248
703C	4.40	34.36													
803C	4.09	34.41													

	OBSERVED									INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	PO_4 (µM)	pH	Alk. (meq/l)	NO_3 (µM)	SiO_2 (µM)	ΣCO_2 (mM)	Z (m)	T (°C)	S (‰)	σ_t	δ (x10^5)	ΔD (dyn.m)
1002C	3.41	34.480													

NH 105 44 38.9 N 126 31.0 W DATE 15 JUN 71 1020 GCT WIRE 06 DRY 53.4 WET 51.9 CRUISE Y71068
WIND DIRECTION 35 VEL 12 KTS BAR 26 SWELL DIRECTION27 H 04 T 07 CLOUD 8 AMT 2 WEATHER 02

0A	12.20	32.448	6.53	.43	8.214		-.0	1	8.6	0	12.20	32.45	24.60	335.2	0
20A	11.27	32.513	6.77	.44	8.223		.0	2	2.07	10	12.19	32.47	24.62	334.0	.033
30A	10.35	32.567	6.92	.54	8.222		.6	3	2.15	20	11.27	32.52	24.83	314.2	.066
50A	9.85	32.620	6.56	.65	8.176		3.1	5	2.10	30	10.35	32.57	25.03	295.4	.096
75A	8.67	32.927	5.53	1.17	8.076		12.1	14	2.13	50	9.85	32.63	25.15	283.9	.154
100A	8.36	33.523	3.96	1.73	7.946		22.0	27	2.17	75	8.67	32.93	25.58	243.6	.220
150A	7.83	33.874	2.88	2.12	7.843		29.4	42	2.26	100	8.36	33.53	26.09	195.3	.275
201A	7.21	33.958	2.44	2.32	7.793		32.7	47	2.20	150	7.83	33.88	26.44	162.4	.364
251A	6.79	33.986	2.20	2.46	7.760		34.1	52	2.26	200	7.22	33.96	26.59	148.8	.442
276A	6.61	34.004	2.00	2.43	7.754		32.6	51	2.26	250	6.80	33.99	26.67	141.8	.515
301A	6.43	34.006	1.97	2.40	7.728		30.7	50	2.21	300	6.44	34.01	26.74	136.3	.584
326A	6.22	34.011	1.83		7.713			46	2.03	400	5.63	34.06	26.88	123.8	.714
351A	6.04	34.020	1.75	2.67	7.700		37.2	63	2.26	500	5.08	34.13	27.01	111.8	.832
376A	5.80	34.041	1.48	2.72	7.670		37.0	65	2.27	600	4.66	34.21	27.12	102.5	.939
402A	5.62	34.057	1.35		7.660			61	2.30	700	4.35	34.28	27.20	94.5	1.038
603A	4.65	34.215	.49		7.592			78	2.34	800	4.08	34.34	27.28	88.0	1.129
804A	4.07	34.337	.33	3.31	7.595		44.7	111	2.31	1000	3.45	34.40	27.39	77.6	1.294
1005A	3.44	34.401	.41	3.30	7.617		45.2	134	2.33	1200	3.09	34.46	27.47	69.9	1.442
1206A	3.08	34.463	.51	3.25	7.632		45.3	145	2.30						
1407A	2.62	34.510	.74	3.21	7.655		44.6	157	2.21						

DB 15 44 55.0 N 124 22.5 W DATE 15 JUN 71 2220 GCT WIRE 05 DRY 58.2 WET 54.0 CRUISE Y71068
WIND DIRECTION 35 VEL 16 KTS BAR 25 SWELL DIRECTION27 H 03 T 07 CLOUD 8 AMT 3 WEATHER 02

0A	12.98	31.003	6.53	.27	8.284		.1	5	2.10	0	12.98	31.01	23.34	455.9	0
5A	12.91	31.008	6.53	.26	8.286		.1	5	2.10	10	12.55	31.07	23.47	443.4	.045
10A	12.55	31.069	6.74	.24	8.296		.1	5	2.09	20	9.44	32.05	24.77	319.4	.083
20A	9.44	32.048	6.83	.57	8.223		1.5	7	2.08	30	7.90	32.49	25.35	264.5	.112
30A	7.89	32.487	6.26	.94	8.135		7.9	9	2.09	50	7.59	32.79	25.62	238.7	.163
49A	7.59	32.758	5.55	1.30	8.071		14.2	17	2.13	75	7.72	33.51	26.17	187.3	.216
75A	7.72	33.503	3.87	1.90	7.937		24.9	31	2.20	100	7.48	33.77	26.41	164.9	.260
100A	7.48	33.765	3.07	2.17	7.851		28.6	40	2.17	150	6.82	33.94	26.64	143.6	.337
150A	6.81	33.940	2.07	2.18	7.741		29.7	45	2.24						
170	6.53	33.969	1.51	2.82			34.6	60	2.27						

DB 10 44 52.7 N 124 15.3 W DATE 16 JUN 71 0113 GCT WIRE DRY 55.4 WET 52.6 CRUISE Y71068
WIND DIRECTION 00 VEL 20 KTS BAR 23 SWELL DIRECTION35 H 05 T 04 CLOUD 8 AMT 1 WEATHER 01

0A	13.36	30.312	6.60	.22	8.303		.0	7	1.98	0	13.36	30.32	22.73	513.8	0
5A	13.11	30.364	6.64	.22	8.321		.0	7	1.97	10	12.63	31.05	23.44	446.4	.048
10A	12.63	31.047	6.84	.34	8.319			0 5	2.02	20	9.77	31.82	24.54	341.5	.087
20A	9.77	31.818	7.50	.45	8.296		.0	5	2.04	30	8.55	32.12	24.96	301.3	.120
30A	8.55	32.117	5.95	1.18	8.139		7.7	13	2.07	50	7.66	33.03	25.80	221.5	.172
50A	7.65	33.025	4.79	1.57	8.029		18.9	24	2.13	75	7.49	33.60	26.28	177.0	.222
75A	7.49	33.598	3.32		7.888				2.09	100	7.11	33.83	26.51	155.1	.263
100A	7.11	33.829	2.46	2.31	7.811		31.9	48	2.25						
119A	6.90	33.928	2.11	2.53	7.776		33.7	56	2.21						

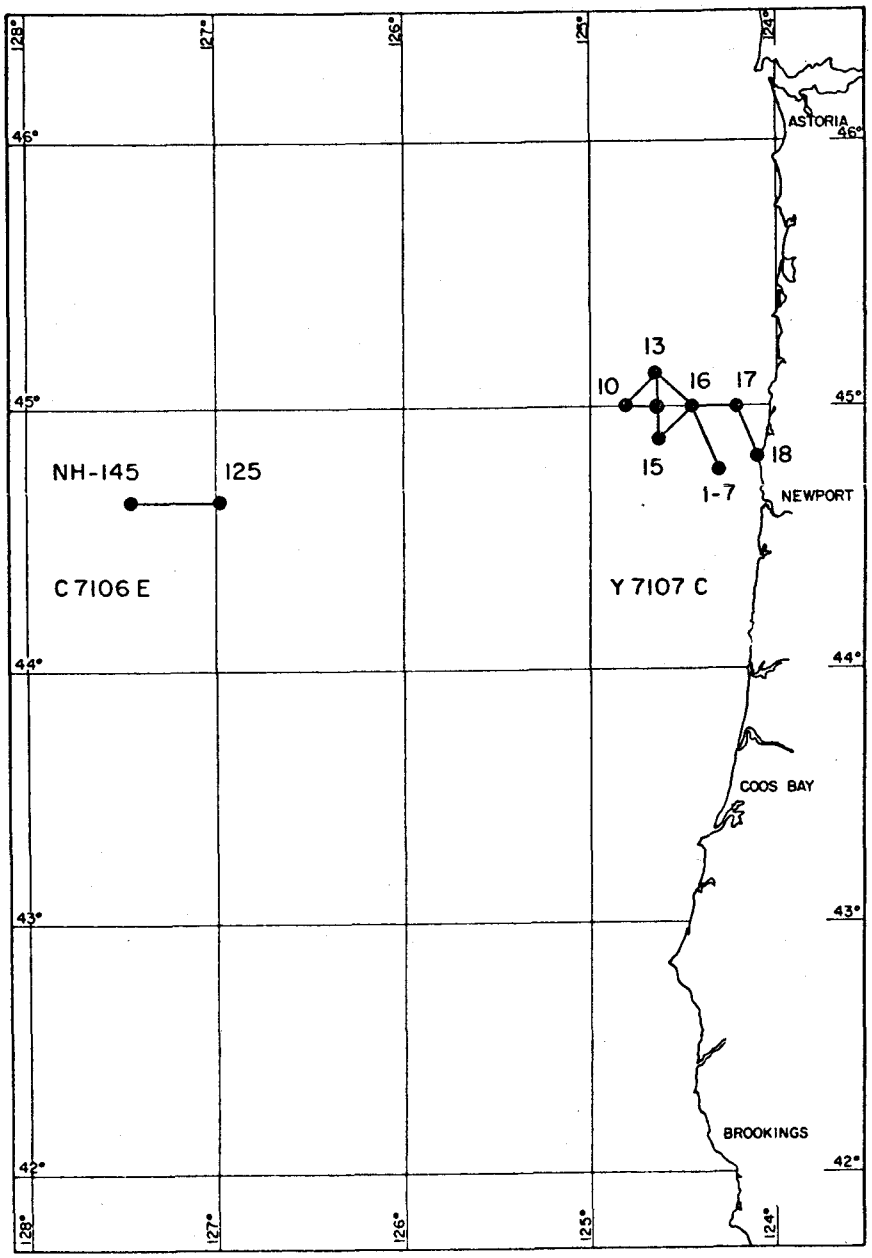
DB 5 44 50.1 N 124 10.2 W DATE 16 JUN 71 0347 GCT WIRE DRY 55.0 WET 52.0 CRUISE Y71068
WIND DIRECTION 35 VEL 26 KTS BAR 23 SWELL DIRECTION34 H 04 T 05 CLOUD 8 AMT 2 WEATHER 03

0A	13.20	30.285	6.78	.29	8.338		-.1	8	1.97	0	13.20	30.29	22.74	512.8	0
5A	12.23	31.195	6.93	.32	8.315		.0	5	1.94	10	10.79	31.64	24.23	371.2	.044
10A	10.79	31.635	6.92	.55	8.302		.1	3	2.04	20	8.76	32.17	24.97	300.3	.078
20A	8.76	32.169	6.42	1.02	8.130		5.8	10	2.08	30	7.52	32.63	25.51	248.9	.105
30A	7.51	32.627	5.09	1.46	8.032		16.1	20		50	7.26	33.76	26.43	161.7	.146
40A	7.46	33.308	3.29	2.07	7.859		25.9	36	2.22						
50A	7.25	33.755	2.63	2.32	7.816		30.8	45	2.20						
60A	7.18	33.846	2.60	2.32	7.817		31.3	46	2.18						

DB 1 44 48.5 N 124 05.7 W DATE 16 JUN 71 0618 GCT WIRE DRY 54.2 WET 50.8 CRUISE Y71068
WIND DIRECTION 00 VEL 22 KTS BAR 23 SWELL DIRECTION35 H 04 T 05 CLOUD 8 AMT 2 WEATHER 02

0A	12.50	30.395	6.73	.39	8.346		.3	9	1.88	0	12.50	30.40	22.96	492.0	0
5A	11.47	31.266	7.08	.47	8.312		.5	51	9.7	10	9.54	31.90	24.64	332.0	.041
10A	9.54	31.897	6.06		8.155				2.04	20	7.54	33.47	26.16	186.9	.067
20A	7.53	33.462	2.75	2.27	7.804		28.9	42	2.23	30	7.19	33.84	26.50	154.9	.084
30A	7.19	33.832	1.86	2.58	7.725		33.8	54	2.36						

OBSERVED				INTERPOLATED			COMPUTED		
D (m)	T (°C)	S (‰)	O_2 (ml/l)	Z (m)	T (°C)	S (‰)	σ_t	δ ($\times 10^5$)	ΔD (dyn.m)
NH 145 44 39.0 N 127 27.0 W DATE 18 JUN 71 1340 GCT WIRE 03									
DRY 54.0 WET 53.1 CRUISE C7106E WIND DIRECTION 22 VEL 05 KTS BAR 05									
SWELL DIRECTION 25 H 06 T 07 CLOUD 6 AMT 8 WEATHER 02									
0	12.80	32.152		0	12.80	32.16	24.26	368.1	0
10	12.66	32.152		10	12.66	32.16	24.28	365.7	.037
30	11.07	32.525		20	11.95	32.33	24.55	340.6	.072
50	9.92	32.602		30	11.07	32.53	24.87	310.6	.105
63	9.69	32.615		50	9.92	32.61	25.12	286.5	.164
76	8.88	32.648		75	8.96	32.64	25.31	269.3	.234



OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
NH 125	44 39.1 N	126 59.0 W		DATE 18 JUN 71	1710 GCT	WIRE 08			
DRY 56.1	WET 55.1	CRUISE C7106E	WIND DIRECTION 23	VEL 10 KTS	BAR 06				
SWELL DIRECTION 22	H 05	T 07	CLOUD 6	AMT 7	WEATHER 01				
0	13.10	32.010		0	13.10	32.01	24.09	384.1	0
29	10.45	32.607		10	11.12	32.61	24.92	305.4	.034
49	9.74	32.608		20	10.77	32.61	24.98	299.6	.065
61	9.26	32.670		30	10.41	32.61	25.04	293.8	.094
74	8.72	32.990		50	9.70	32.61	25.16	282.9	.152
86	8.41	33.435		75	8.69	33.03	25.65	236.6	.217
99	8.29	33.567		100	8.28	33.57	26.14	190.8	.270
147	7.96	33.798		150	7.93	33.81	26.37	169.2	.360
197	7.41	33.928		200	7.38	33.93	26.55	153.0	.441
394	5.58	34.040		250	6.85	33.99	26.67	142.4	.515
591	4.58	34.191		300	6.37	34.02	26.76	134.0	.584
787	4.09	34.312		400	5.54	34.04	26.88	123.3	.712
985	3.52	34.390		500	4.96	34.12	27.01	111.6	.830
1182	3.10	34.462		600	4.55	34.20	27.12	102.1	.937
				700	4.28	34.26	27.20	94.9	1.035
				800	4.05	34.32	27.27	89.0	1.127
				1000	3.48	34.40	27.38	78.2	1.294
				1200	3.06	34.47	27.48	69.3	1.442
1	44 46.0 N	124 16.3 W		DATE 29 JUL 71	2348 GCT	WIRE			
DRY	WET	CRUISE Y7107C	WIND DIRECTION 18	VEL 10 KTS	BAR 16				
SWELL DIRECTION 30	H 02	T 08	CLOUD 6	AMT 8	WEATHER 00				
0C	15.35	29.21		0	15.35	29.21	21.48	633.8	0
2C	15.35	29.21		10	15.09	29.30	21.60	622.1	.063
10C	15.09	29.30		20	9.31	32.19	24.90	307.4	.109
21C	8.70	32.49		30	7.61	32.86	25.68	233.1	.136
30C	7.61	32.86		50	7.51	33.53	26.21	182.7	.178
51C	7.51	33.55		75	7.21	33.79	26.47	159.1	.221
62C	7.41	33.68							
75C	7.21	33.79							
87C	7.14	33.82							
2	44 45.5 N	124 18.7 W		DATE 30 JUL 71	0318 GCT	WIRE			
DRY 58.0	WET 56.7	CRUISE Y7107C	WIND DIRECTION 18	VEL 08 KTS	BAR 16				
SWELL DIRECTION 30	H 02	T 08	CLOUD 7	AMT 8	WEATHER 02				
0C	15.37	29.04		0	15.38	29.04	21.34	646.6	0
1C	15.37	29.04		10	10.58	31.94	24.49	346.1	.050
10C	10.58	31.93		20	8.36	32.60	25.37	262.7	.080
20C	8.36	32.60		30	7.63	32.88	25.70	231.7	.105
30C	7.62	32.88		50	7.52	33.48	26.18	186.1	.147
51C	7.52	33.51		75	7.19	33.83	26.50	156.4	.189
62C	7.46	33.68							
77C	7.15	33.84							
87C	7.12	33.84							
3	44 45.5 N	124 19.0 W		DATE 30 JUL 71	0602 GCT	WIRE			
DRY 57.5	WET 57.0	CRUISE Y7107C	WIND DIRECTION 19	VEL 08 KTS	BAR 17				
SWELL DIRECTION 30	H 02	T 08	CLOUD	AMT 9	WEATHER 10				

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
10C	13.83	30.44		20	8.84	32.45	25.18	280.9	.096
21C	8.38	32.64		30	7.58	32.86	25.69	232.7	.121
30C	7.58	32.86		50	7.55	33.54	26.22	182.3	.163
51C	7.55	33.57		75	7.39	33.81	26.46	159.9	.205
62C	7.48	33.73							
75C	7.38	33.81							
88C	7.09	33.89							
8	45 00.3 N	124 28.1 W		DATE 31 JUL 71	0115 GCT	WIRE			
DRY 57.7	WET 56.7	CRUISE Y7107C	WIND DIRECTION	VEL 00 KTS	BAR 18				
SWELL DIRECTION 32	H 03	T 09	CLOUD 6	AMT 8	WEATHER 01				
64C	7.55	33.21		0	16.02	29.82	21.80	602.9	0
67C	7.65	33.29		10	13.83	30.44	22.74	513.6	.056
76C	7.63	33.42		20	8.84	32.45	25.18	280.9	.096
81C	7.68	33.54		30	7.58	32.86	25.69	232.7	.121
100C	7.68	33.79		50	7.55	33.54	26.22	182.3	.163
150C	6.95	33.93		75	7.64	33.41	26.10	193.7	.210
200C	6.58	33.97		100	7.69	33.79	26.40	165.9	.255
251C	6.22	34.02		150	6.95	33.93	26.61	146.3	.333
				200	6.58	33.97	26.69	139.2	.404
				250	6.23	34.02	26.78	132.0	.472
9	45 07.8 N	124 39.8 W		DATE 31 JUL 71	0305 GCT	WIRE			
DRY 61.9	WET 57.9	CRUISE Y7107C	WIND DIPECTION 35	VEL 05 KTS	BAR 17				
SWELL DIRECTION 31	H 03	T 08	CLOUD 6	AMT 8	WEATHER 02				
0C	16.68	29.67		0	16.68	29.67	21.54	628.0	0
2C	16.68	29.67		10	15.47	31.09	22.89	499.1	.056
12C	15.00	31.54		20	13.05	32.11	24.17	376.8	.100
25C	11.89	32.25		30	11.13	32.46	24.80	317.1	.135
34C	10.66	32.58		50	9.56	32.58	25.16	282.8	.195
51C	9.52	32.58		75	8.57	32.80	25.49	252.0	.262
67C	8.81	32.67		100	8.22	33.38	26.00	204.0	.319
77C	8.52	32.84		150	7.52	33.91	26.51	156.1	.409
89C	8.27	33.12		200	6.87	33.99	26.67	141.9	.483
100C	8.22	33.38		250	6.37	34.02	26.76	133.7	.552
156C	7.41	33.92		300	6.04	34.05	26.83	127.5	.617
201C	6.86	33.99		400	5.68	34.10	26.91	121.0	.741
252C	6.35	34.02							
300C	6.03	34.05							
402C	5.68	34.10							
10	45 00.2 N	124 49.3 W		DATE 31 JUL 71	0445 GCT	WIRE			
DRY 61.8	WET 57.6	CRUISE Y7107C	WIND DIRECTION 02	VEL 04 KTS	BAR 18				
SWELL DIRECTION 31	H 03	T 08	CLOUD 6	AMT 8	WEATHER 02				
0C	16.54	29.85		0	16.54	29.85	21.71	611.8	0
1C	16.54	29.85		10	15.48	30.77	22.64	522.4	.057
12C	15.04	31.07		20	12.69	31.84	24.04	389.8	.102
22C	12.09	32.00		30	10.69	32.36	24.81	316.5	.138

0C	14.37	29.75	0	14.38	29.75	22.10	574.6	0
1C	14.37	29.75	10	10.08	31.96	24.59	336.5	.046
12C	8.88	32.55	20	7.78	32.80	25.61	239.6	.074
23C	7.77	32.80	30	7.49	33.13	25.90	212.0	.097
32C	7.44	33.19	50	7.61	33.65	26.30	174.5	.136
50C	7.61	33.65	75	7.38	33.79	26.44	161.5	.178
64C	7.44	33.71						
76C	7.37	33.80						
87C	7.10	33.86						

4 44 46.9 N 124 17.3 W DATE 30 JUL 71 0915 GCT WIRE
DRY 58.0 WET 57.8 CRUISE Y7107C WIND DIRECTION 16 VEL 04 KTS BAR 17
SWELL DIRECTION 30 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	14.41	29.64	0	14.41	29.65	22.00	583.4	0
1C	14.41	29.64	10	9.59	32.29	24.94	303.7	.044
10C	9.59	32.29	20	7.63	32.83	25.65	236.1	.071
21C	7.58	32.98	30	7.45	33.24	26.00	203.2	.093
31C	7.44	33.27	50	7.54	33.67	26.32	172.3	.131
52C	7.55	33.69	75	7.29	33.85	26.50	155.6	.172
62C	7.41	33.74						
75C	7.28	33.85						
88C	7.09	33.89						

5 44 45.7 N 124 18.9 W DATE 30 JUL 71 1220 GCT WIRE

DRY 57.2 WET 56.8 CRUISE Y7107C WIND DIRECTION 19 VEL 10 KTS BAR 17
SWELL DIRECTION 30 H 02 T 08 CLOUD AMT 9 WEATHER 12

0C	14.48	29.78	0	14.48	29.78	22.10	574.5	0
1C	14.48	29.78	10	9.85	32.07	24.72	324.4	.045
11C	9.24	32.37	20	9.51	32.29	24.95	302.7	.076
20C	9.51	32.29	30	7.70	32.89	25.69	232.0	.103
39C	7.70	32.89	50	7.51	33.46	26.17	187.2	.145
50C	7.50	33.46	75	7.40	33.77	26.43	163.0	.189
64C	7.48	33.71						
75C	7.39	33.77						
88C	7.12	33.87						

6 44 44.6 N 124 17.8 W DATE 30 JUL 71 1506 GCT WIRE
DRY 58.0 WET 56.4 CRUISE Y7107C WIND DIRECTION 20 VEL 03 KTS BAR 18
SWELL DIRECTION 31 H 02 T 09 CLOUD 6 AMT 8 WEATHER 01

0C	15.07	29.57	0	15.07	29.57	21.81	601.7	0
1C	15.07	29.57	10	10.53	31.80	24.39	355.2	.048
12C	9.23	32.42	20	7.79	32.88	25.66	234.6	.077
22C	7.68	32.88	30	7.50	33.13	25.90	212.0	.100
32C	7.46	33.18	50	7.51	33.62	26.29	175.6	.138
51C	7.52	33.64	75	7.20	33.85	26.51	154.9	.180
63C	7.39	33.75						
77C	7.17	33.86						
87C	7.15	33.87						

7 44 46.0 N 124 19.0 W DATE 30 JUL 71 2118 GCT WIRE
DRY 61.9 WET 59.0 CRUISE Y7107C WIND DIRECTION 21 VEL 02 KTS BAR 19
SWELL DIRECTION 31 H 02 T 08 CLOUD 6 AMT 6 WEATHER 03

0C	16.02	29.82	0	16.02	29.82	21.80	602.9	0
1C	16.02	29.82	10	13.83	30.44	22.74	513.6	.056
35C	10.06	32.48	50	8.42	32.65	25.40	260.3	.195
50C	8.42	32.65	75	7.88	32.99	25.74	227.8	.256
67C	8.01	32.87	100	8.10	33.54	26.14	190.4	.309
77C	7.86	33.03	150	7.58	33.88	26.48	159.2	.396
92C	7.99	33.46	200	6.93	33.95	26.63	145.6	.472
101C	8.11	33.55	250	6.40	34.00	26.74	135.6	.542
151C	7.56	33.88	300	6.10	34.05	26.82	128.8	.608
204C	6.88	33.95	400	5.68	34.13	26.93	118.9	.732
251C	6.39	34.00	500	5.37	34.16	26.99	113.8	.849
302C	6.09	34.05	600	4.84	34.24	27.12	102.5	.957
400C	5.67	34.12						
503C	5.36	34.16						
603C	4.82	34.24						

11 45 00.0 N 124 37.8 W DATE 31 JUL 71 0650 GCT WIRE
DRY 61.2 WET 59.0 CRUISE Y7107C WIND DIRECTION 01 VEL 05 KTS BAR 17
SWELL DIRECTION 31 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	17.02	29.52	0	17.02	29.52	21.35	646.3	0
1C	17.02	29.52	10	15.56	31.18	22.94	494.2	.057
12C	15.00	31.64	20	12.59	31.99	24.17	376.8	.101
21C	12.28	32.00	30	10.19	32.36	24.89	308.3	.135
30C	10.19	32.36	50	8.03	32.77	25.55	245.8	.190
50C	8.03	32.77	75	7.94	33.14	25.85	217.9	.248
66C	7.91	33.06	100	7.86	33.63	26.24	181.0	.298
77C	7.95	33.16	150	7.21	33.90	26.55	152.5	.381
88C	7.95	33.45	200	6.66	33.97	26.68	140.5	.455
100C	7.86	33.62	250	6.24	34.02	26.77	132.2	.523
151C	7.20	33.90	300	6.00	34.06	26.84	126.8	.588
201C	6.65	33.97	400	5.50	34.13	26.95	116.5	.709
252C	6.23	34.02						
303C	5.99	34.06						
402C	5.49	34.13						

12 45 00.0 N 124 48.3 W DATE 02 AUG 71 0235 GCT WIRE 00

DRY 64.2 WET 61.2 CRUISE Y7107C WIND DIRECTION 33 VEL 06 KTS BAR 19
SWELL DIRECTION 30 H 02 T 10 CLOUD 8 AMT 3 WEATHER 01

0	17.70	29.834	5.95	0	17.70	29.84	21.43	638.5	0
5	16.76	29.959	5.99	10	15.86	30.93	22.68	518.7	.058
10	15.86	30.927	6.11	20	12.63	32.38	24.46	349.1	.101
20	12.62	32.371	6.88	30	11.00	32.53	24.88	309.3	.134
30	11.00	32.527	7.25	50	9.07	32.60	25.26	273.6	.192
40	9.65	32.594	6.68	75	7.90	32.81	25.59	242.0	.257
50	9.07	32.599	6.37	100	7.99	33.46	26.09	195.2	.311
62	8.20	32.619	6.20	150	7.57	33.87	26.48	159.4	.400
75	7.89	32.801	5.65	200	6.80	33.94	26.64	144.2	.476
87	7.94	33.190	4.61	250	6.43	33.99	26.73	136.8	.546
100	7.99	33.454	4.09						
125	7.79	33.753	3.55						
150	7.57	33.867	3.38						
200	6.79	33.939	2.70						
250	6.43	33.989	2.29						

12 45 00.0 N 124 48.3 W DATE 02 AUG 71 0235 GCT WIRE 00
DRY 64.2 WET 61.2 CRUISE Y7107C WIND DIRECTION 33 VEL 06 KTS BAR 19
SWELL DIRECTION 30 H 02 T 10 CLOUD 8 AMT 3 WEATHER 01

0C	17.74	29.94	0	17.74	29.94	21.50	631.7	0

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
1C	17.74	29.94		10	16.13	30.73	22.47	538.9	.059
10C	16.13	30.73		20	12.60	32.46	24.53	342.2	.103
20C	12.60	32.46		30	11.01	32.65	24.97	300.6	.135
31C	10.91	32.67		50	8.73	32.66	25.36	264.1	.191
51C	8.65	32.66		75	7.94	33.04	25.78	224.8	.252
66C	7.96	32.83		100	8.02	33.55	26.16	189.0	.304
76C	7.94	33.07		150	7.58	33.88	26.49	158.6	.391
88C	7.95	33.29		200	6.82	33.96	26.65	143.4	.466
103C	8.04	33.61		250	6.42	34.01	26.74	135.2	.536
151C	7.56	33.89		300	6.12	34.03	26.80	130.5	.602
202C	6.79	33.96		400	5.80	34.11	26.90	121.3	.728
252C	6.41	34.01		500	5.29	34.15	27.00	113.4	.845
302C	6.11	34.03							
400C	5.80	34.11							
501C	5.28	34.15							

13 45 07.6 N 124 37.8 W DATE 02 AUG 71 0435 GCT WIRE 03
DRY 64.5 WET 61.5 CRUISE Y7107C WIND DIRECTION 33 VEL 04 KTS BAR 19
SWELL DIRECTION 26 H 07 T 08 CLOUD 8 AMT 2 WEATHER 03

0	17.82	29.742	5.90	0	17.82	29.75	21.33	647.9	0
5	16.42	30.189	6.07	10	15.00	31.66	23.43	447.5	.055
10	15.00	31.656	6.20	20	12.30	32.35	24.50	345.4	.094
20	12.30	32.342	7.00	30	11.01	32.53	24.88	309.5	.127
30	11.01	32.526	7.25	50	9.60	32.59	25.16	282.9	.186
40	10.21	32.586	7.09	75	8.21	32.75	25.50	250.6	.253
50	9.60	32.582	6.65	100	8.02	33.31	25.97	206.5	.310
62	8.91	32.632	6.27	150	7.59	33.84	26.45	161.7	.402
75	8.21	32.745	5.87	200	6.96	33.96	26.63	145.6	.479
87	8.12	32.963	5.31	250	6.44	33.97	26.71	138.1	.550
100	8.02	33.308	4.45						
125	7.85	33.754	3.51						
150	7.59	33.840	3.32						
200	6.96	33.951	2.69						
250	6.44	33.973	2.14						

13 45 07.6 N 124 37.8 W DATE 02 AUG 71 0435 GCT WIRE 03

DRY 64.5 WET 61.5 CRUISE Y7107C WIND DIRECTION 33 VEL 04 KTS BAR 19
SWELL DIRECTION 26 H 07 T 08 CLOUD 8 AMT 2 WEATHER 03

0C	17.83	29.85	0	17.83	29.85	21.41	640.3	0
1C	17.83	29.85	10	15.24	31.52	23.27	462.9	.055
11C	14.81	31.76	20	11.99	32.53	24.70	326.2	.095
21C	11.73	32.57	30	10.81	32.61	24.98	300.0	.126
30C	10.81	32.61	50	9.60	32.63	25.20	279.4	.184
50C	9.60	32.63	75	8.32	32.76	25.50	251.1	.250
63C	8.88	32.68	100	8.04	33.31	25.97	207.2	.307
75C	8.32	32.76	150	7.57	33.87	26.48	159.5	.399
90C	8.10	33.06	200	6.94	33.97	26.65	143.8	.475
101C	8.03	33.33	250	6.40	34.00	26.74	135.6	.545
153C	7.54	33.88	300	6.06	34.03	26.81	129.7	.611
200C	6.93	33.97						
251C	6.39	34.00						
300C	6.06	34.03						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

15 44 52.5 N 124 37.9 W DATE 02 AUG 71 0821 GCT WIRE 00
DRY 63.5 WET 60.2 CRUISE Y7107C WIND DIRECTION 32 VEL 08 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 6 AMT 6 WEATHER 02

0C	16.51	29.85	0	16.51	29.85	21.71	611.1	0
1C	16.51	29.85	10	10.70	32.09	24.59	336.2	.047
10C	10.70	32.09	20	8.28	32.50	25.29	269.7	.078
20C	8.28	32.49	30	7.67	32.72	25.56	244.2	.103
30C	7.66	32.72	50	7.57	33.27	26.01	202.3	.148
50C	7.57	33.27	75	7.53	33.64	26.30	174.6	.195
64C	7.59	33.53	100	7.38	33.82	26.47	159.4	.237
77C	7.52	33.66	150	7.04	33.94	26.60	147.2	.313
88C	7.45	33.75	200	6.59	34.00	26.72	137.1	.384
100C	7.37	33.82	250	6.43	34.04	26.77	133.1	.452
152C	7.03	33.94	300	6.21	34.05	26.80	130.1	.518
200C	6.59	34.00						
251C	6.43	34.04						
300C	6.21	34.05						

16 45 00.0 N 124 27.1 W DATE 02 AUG 71 1041 GCT WIRE 03
DRY 63.0 WET 59.8 CRUISE Y7107C WIND DIRECTION 33 VEL 06 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 6 AMT 8 WEATHER 01

0	17.53	30.361	6.12	0	17.53	30.37	21.87	596.2	0
5	15.29	31.330	6.82	10	12.96	31.59	23.79	412.8	.050
10	12.96	31.588	7.47	20	9.85	32.02	24.68	328.2	.087
20	9.85	32.016	4.87	30	7.77	32.53	25.39	260.3	.117
30	7.76	32.522	5.07	50	7.47	32.92	25.74	227.3	.166
40	7.49	32.703	5.07	75	7.70	33.58	26.23	181.5	.217
50	7.47	32.916	3.61	100	7.57	33.80	26.42	163.9	.260
62	7.69	33.359	4.09	150	6.99	33.90	26.58	149.2	.338
75	7.70	33.578	3.69	200	6.94	33.94	26.62	146.5	.412
82	7.76	33.725	4.10	250	6.72	33.97	26.68	141.7	.484
100	7.57	33.796	3.21						
125	7.02	33.878	1.96						
150	6.99	33.898	2.00						
200	6.93	33.933	2.05						
250	6.72	33.974	2.15						

16 45 00.0 N 124 27.1 W DATE 02 AUG 71 1041 GCT WIRE 03
DRY 63.0 WET 59.8 CRUISE Y7107C WIND DIRECTION 33 VEL 06 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 6 AMT 8 WEATHER 01

0C	17.16	30.58	0	17.16	30.58	22.12	571.9	0
1C	17.16	30.58	10	12.89	31.67	23.86	406.2	.049
10C	12.89	31.66	20	9.90	32.07	24.71	325.3	.085
21C	9.68	32.09	30	8.14	32.51	25.33	266.4	.115
30C	8.14	32.51	50	7.51	32.94	25.76	226.2	.164
51C	7.48	32.96	75	7.76	33.58	26.23	182.1	.215
64C	7.67	33.42	100	7.52	33.84	26.46	159.8	.258
75C	7.75	33.58	150	6.9[illegible]	33.93	26.60	147.2	.335
89C	7.69	33.77	200	6.90	33.96	26.64	144.5	.408
100C	7.51	33.84	250	6.68	33.99	26.69	140.0	.479
151C	6.98	33.93						
202C	6.90	33.96						
251C	6.67	33.99						

14 44 59.8 N 124 38.0 W DATE 02 AUG 71 0615 GCT WIRE 00
DRY 66.0 WET 61.9 CRUISE Y7107C WIND DIRECTION 33 VEL 05 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 8 AMT 6 WEATHER 03

0	17.61	29.791	5.89	0	17.61	29.80	21.42	639.6	0
5	15.94	31.129	6.72	10	13.68	31.54	23.61	429.9	.053
10	13.68	31.539	6.76	20	10.93	32.31	24.73	323.9	.091
20	10.93	32.310	7.27	30	9.69	32.49	25.07	291.2	.122
30	9.69	32.485	7.30	50	8.27	32.62	25.40	260.4	.177
40	8.80	32.584	6.39	75	7.88	33.11	25.84	218.7	.237
50	8.27	32.619	6.22	100	7.82	33.52	26.17	188.2	.288
62	7.89	32.789	5.63	150	7.35	33.86	26.50	157.1	.374
75	7.87	33.110	4.78	200	6.81	33.94	26.63	144.9	.450
87	7.93	33.332	4.31	250	6.33	33.98	26.73	136.0	.520
100	7.82	33.516	3.80						
125	7.67	33.810	3.43						
150	7.35	33.858	2.96						
200	6.80	33.932	2.61						
250	6.33	33.982	2.15						

14 44 59.8 N 124 38.0 W DATE 02 AUG 71 0615 GCT WIRE 00
DRY 66.0 WET 61.9 CRUISE Y7107C WIND DIRECTION 33 VEL 05 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 8 AMT 6 WEATHER 03

0C	17.65	29.90	0	17.65	29.90	21.49	632.5	0
1C	17.65	29.90	10	14.30	31.54	23.49	441.9	.054
10C	14.30	31.54	20	11.86	32.18	24.46	349.5	.093
20C	11.86	32.18	30	10.19	32.46	24.96	301.6	.126
31C	10.06	32.47	50	8.29	32.68	25.44	256.5	.182
51C	8.24	32.69	75	7.90	33.23	25.93	210.1	.240
63C	7.86	32.96	100	7.82	33.61	26.24	181.2	.289
78C	7.93	33.30	150	7.36	33.88	26.51	155.8	.373
90C	7.89	33.53	200	6.61	33.98	26.69	139.2	.447
100C	7.82	33.61	250	6.30	34.00	26.75	134.3	.515
153C	7.32	33.89	300	6.02	34.03	26.82	128.7	.581
201C	6.60	33.98	400	5.63	34.10	26.91	120.2	.705
252C	6.29	34.00						
300C	6.01	34.03						
400C	5.63	34.10						

15 44 52.5 N 124 37.9 W DATE 02 AUG 71 0821 GCT WIRE 00
DRY 63.5 WET 60.2 CRUISE Y7107C WIND DIRECTION 32 VEL 08 KTS BAR 19
SWELL DIRECTION 26 H 02 T 08 CLOUD 6 AMT 6 WEATHER 02

0	16.73	29.490	7.04	0	16.73	29.50	21.39	642.2	0
5	11.53	31.891	8.43	10	10.46	32.12	24.65	330.7	.049
10	10.46	32.111	5.98	20	8.29	32.38	25.21	278.0	.079
20	8.29	32.380	4.56	30	7.72	32.66	25.51	249.5	.105
30	7.72	32.659	4.22	50	7.52	33.09	25.87	214.9	.152
40	7.49	32.891	4.75	75	7.52	33.61	26.28	177.0	.201
50	7.51	33.089	4.09	100	7.36	33.81	26.46	160.4	.243
62	8.05	33.485	3.88	150	6.89	33.95	26.63	144.6	.319
75	7.51	33.604	3.44	200	6.64	33.99	26.70	138.5	.390
87	7.49	33.709	3.03	250	6.46	34.00	26.73	136.2	.459
101	7.36	33.805	2.88						
125	7.11	33.904	2.46						
150	6.88	33.941	2.23						
200	6.63	33.988	2.88						
250	6.46	34.002	1.92						

17 45 00.0 N 124 13.1 W DATE 02 AUG 71 1239 GCT WIRE 00
DRY 61.9 WET 59.5 CRUISE Y7107C WIND DIRECTION 00 VEL 10 KTS BAR 18
SWELL DIRECTION 27 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

0	15.97	29.330	6.93	0	15.97	29.33	21.44	637.8	0
5	15.64	29.537	7.09	10	13.34	31.26	23.46	444.4	.054
10	13.34	31.254	7.80	20	8.67	32.34	25.12	286.5	.091
20	8.67	32.339	3.98	30	7.76	32.78	25.60	241.0	.117
30	7.75	32.779	4.25	50	7.45	33.44	26.16	188.0	.160
39	7.44	33.067	4.10	75	7.40				
49	7.43	33.417	3.26	100	7.10				
61	7.60	33.645	3.27						
75	7.39		3.00						
87	7.20		2.38						
100	7.10		2.05						

17 45 00.0 N 124 13.1 W DATE 02 AUG 71 1239 GCT WIRE 00
DRY 61.9 WET 59.5 CRUISE Y7107C WIND DIRECTION 00 VEL 10 KTS BAR 18
SWELL DIRECTION 27 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

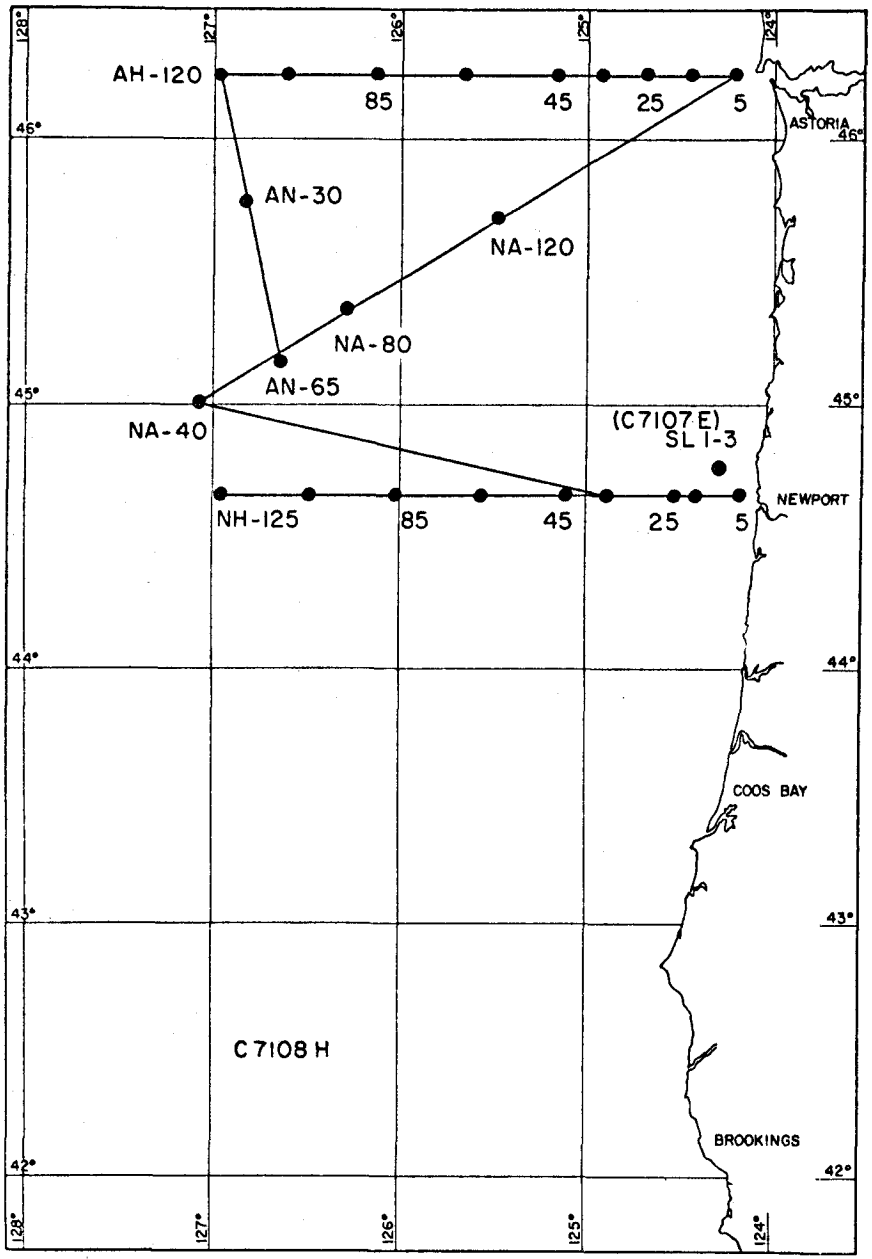
20C	8.66	32.46
23C	8.28	32.62
30C	7.74	32.80
50C	7.41	33.46
63C	7.56	33.69
75C	7.39	33.79
88C	7.19	33.85
100C	7.11	33.87

18 44 48.5 N 124 05.7 W DATE 02 AUG 71 1425 GCT WIRE 00
DRY 57.0 WET 55.5 CRUISE Y7107C WIND DIRECTION 00 VEL 10 KTS BAR 18
SWELL DIRECTION 27 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

0	11.84	32.817	7.86	0	11.84	32.82	24.95	301.8	0
5	11.97	33.314	8.88	10	10.40	33.48	25.72	229.0	.027
10	10.40	33.473	7.26	20	7.73	33.62	26.26	178.4	.047
20	7.73	33.614	3.31						

18 44 48.5 N 124 05.7 W DATE 02 AUG 71 1425 GCT WIRE 00
DRY 57.0 WET 55.5 CRUISE Y7107C WIND DIPECTION 00 VEL 10 KTS BAR 18
SWELL DIRECTION 27 H 02 T 08 CLOUD 6 AMT 8 WEATHER 02

0C	11.66	32.95	0	11.66	32.96	25.09	288.8	0
2C	11.66	32.95	10	10.45	33.48	25.72	229.3	.026
10C	10.45	33.48	20	7.83	33.72	26.32	171.9	.046
20C	7.83	33.72	30	7.70	33.69	26.32	172.5	.063
30C	7.70	33.69						



	OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2		Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)		(m)	(°C)	(‰)		(x10^5)	(dyn.m)
30C	8.45	32.72			50	7.92	33.36	26.03	200.3	.159
50C	7.91	33.36			75	7.68	33.79	26.40	165.8	.204
63C	7.68	33.79								
77C	7.68	33.79								
87C	7.68	33.79								

NH .25 44 39.1 N 124 31.6 W DATE 23 AUG 71 2132 GCT WIRE
DRY 64.8 WET 62.2 CRUISE C7108H WIND DIRECTION 00 VEL 20 KTS BAR 21
SWELL DIRECTION 28 H 08 T 10 CLOUD AMT 0 WEATHER 02

0C	16.02	31.61	0	16.02	31.61	23.17	471.9	0
1C	16.02	31.61	10	13.02	32.13	24.19	374.6	.042
12C	12.03	32.29	20	9.08	32.68	25.32	267.6	.074
22C	8.50	32.76	30	8.24	33.01	25.70	231.0	.099
33C	8.14	33.08	50	7.88	33.34	26.01	201.8	.143
51C	7.87	33.35	75	7.56	33.73	26.37	168.2	.189
63C	7.68	33.59						
75C	7.55	33.73						
87C	7.42	33.81						

NH 35 44 39.1 N 124 52.6 W DATE 23 AUG 71 2307 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 00 VEL 22 KTS BAR
SWELL DIRECTION 28 H 08 T 10 CLOUD AMT 0 WEATHER

0C	16.43	31.19	0	16.43	31.19	22.76	511.4	0
1C	16.43	31.19	10	14.02	31.60	23.59	432.0	.047
26C	9.14	32.56	20	11.06	32.17	24.59	336.8	.086
29C	8.96	32.64	30	8.90	32.63	25.31	268.5	.115
32C	8.77	32.60	50	7.80	32.88	25.67	234.5	.166
51C	7.77	32.92	75	7.92	33.57	26.19	185.7	.219
63C	7.94	33.41	100	7.74	33.71	26.33	172.7	.263
76C	7.91	33.57	150	7.18	33.96	26.61	147.0	.343
89C	7.77	33.57	200	6.84	34.02	26.69	139.4	.415
101C	7.74	33.73	250	6.57	34.02	26.73	136.0	.484
150C	7.17	33.96	300	6.32	34.03	26.78	132.7	.551
202C	6.83	34.02	400	5.64	34.11	26.92	119.6	.677
250C	6.57	34.02						
300C	6.32	34.03						
400C	5.64	34.11						

NH 45 44 39.1 N 125 06.4 W DATE 24 AUG 71 0114 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 34 VEL 22 KTS BAR
SWELL DIRECTION 29 H 06 T 10 CLOUD AMT 0 WEATHER

0C	18.52	30.35	0	18.52	30.35	21.63	619.6	0
1C	18.52	30.35	10	17.55	30.90	22.27	558.3	.059
10C	17.55	30.89	20	10.40	32.28	24.79	317.5	.103
21C	9.69	32.41	30	8.78	32.50	25.23	276.3	.132
30C	8.78	32.50	50	8.11	32.74	25.51	249.8	.185
51C	8.10	32.75	75	7.85	33.22	25.93	210.6	.242
62C	7.80	32.95	100	7.69	33.63	26.27	177.8	.291
76C	7.86	33.24	150	7.24	33.83	26.49	157.9	.375
87C	7.85	33.44	200	6.66	33.93	26.65	143.6	.450
100C	7.68	33.63	250	6.37	33.98	26.73	136.8	.520
155C	7.20	33.85	300	6.02	34.01	26.79	130.6	.587

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

SL 1 44 46.3 N 124 16.9 W DATE 18 JUL 71 0320 GCT WIRE 10
DRY WET CRUISE C7107E WIND DIRECTION 00 VEL 14 KTS BAR 18
SWELL DIRECTION 34 H 04 T 07 CLOUD 7 AMT 8 WEATHER 02

0	9.48	32.989	0	8.48	32.99	25.65	235.1	0
10	7.97	33.121	10	7.97	33.13	25.83	218.3	.023
20	8.07	33.251	20	8.07	33.26	25.92	210.1	.044
30	8.00	33.302	30	8.00	33.31	25.97	205.5	.065
50	8.02	33.360	50	8.02	33.36	26.01	201.8	.106
76	7.25	33.781	75	7.30	33.76	26.43	162.6	.151
91		33.926						

SL 2 44 46.3 N 124 16.8 W DATE 18 JUL 71 0625 GCT WIRE 17
DRY WET CRUISE C7107E WIND DIRECTION 00 VEL 15 KTS BAR 18
SWELL DIRECTION 34 H 04 T 07 CLOUD 7 AMT 8 WEATHER 03

0	8.57	32.828	0	8.57	32.83	25.52	248.4	0
10	8.47	32.890	10	8.47	32.89	25.58	242.5	.025
20	8.03	33.058	20	8.03	33.06	25.78	223.9	.048
30	7.94	33.299	30	7.94	33.30	25.98	204.9	.069
50	7.55	33.537	50	7.56	33.54	26.22	182.1	.108
76	7.06	33.868	75	7.08	33.86	26.54	152.6	.150
91	6.91	33.917						

SL 3 44 45.8 N 124 16.6 W DATE 18 JUL 71 0905 GCT WIRE 00
DRY 50.0 WET 49.0 CRUISE C7107E WIND DIRECTION 00 VEL 08 KTS BAR 18
SWELL DIRECTION 33 H 04 T 06 CLOUD AMT WEATHER 40

0	8.53	32.780	0	8.53	32.78	25.48	251.4	0
10	7.89	33.039	10	7.90	33.04	25.78	223.3	.024
20	7.84	33.312	20	7.84	33.32	26.00	202.4	.045
30	7.92	33.491	30	7.93	33.50	26.13	190.3	.065
50	7.31	33.737	50	7.32	33.74	26.41	164.0	.100
76	7.06	33.861	75	7.06	33.86	26.54	152.4	.140
91	6.88	33.920						

NH 5 44 39.1 N 124 10.6 W DATE 23 AUG 71 1842 GCT WIRE
DRY 63.0 WET 59.2 CRUISE C7108H WIND DIRECTION 00 VEL 10 KTS BAR 22
SWELL DIRECTION 28 H 08 T 10 CLOUD AMT 0 WEATHER 01

0C	16.05	32.53	0	16.05	32.53	23.87	405.3	0
1C	16.05	32.53	10	14.75	32.69	24.27	367.2	.039
11C	14.44	32.71	20	9.88	32.82	25.30	269.1	.070
20C	9.88	32.82	30	8.06	33.17	25.86	216.2	.095
30C	8.06	33.17						

NH 15 44 39.1 N 124 24.6 W DATE 23 AUG 71 2000 GCT WIRE
DRY 64.0 WET 62.0 CRUISE C7108H WIND DIRECTION 34 VEL 16 KTS BAR 22
SWELL DIRECTION 28 H 08 T 10 CLOUD AMT 0 WEATHER 02

0C	16.89	31.62	0	16.89	31.63	22.98	490.0	0
1C	16.89	31.62	10	16.75	31.67	23.05	484.1	.049
11C	16.52	31.70	20	9.47	32.65	25.24	275.4	.087
20C	9.47	32.65	30	8.45	32.72	25.45	255.2	.113
20IC	6.65	33.93	400	5.25	34.09	26.95	116.6	.711
25IC	6.36	33.98	500	4.92	34.16	27.04	108.4	.823
30IC	6.01	34.01	600	4.66	34.27	27.16	98.2	.926
40IC	5.22	34.09	700	4.46	34.33	27.23	92.1	1.022
50IC	4.92	34.16						
60IC	4.65	34.27						
70IC	4.46	34.33						

NH 125 44 39.1 N 126 56.9 W DATE 25 AUG 71 0100 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 32 VEL 19 KTS BAR
SWELL DIRECTION 31 H 06 T 09 CLOUD 8 AMT 4 WEATHER

0C	18.53	31.15	0	18.53	31.15	22.23	561.6	0
2C	18.53	31.15	10	18.39	31.33	22.40	545.8	.055
11C	18.35	31.36	20	17.62	31.48	22.70	517.2	.109
22C	17.28	31.52	30	14.64	31.86	23.66	425.8	.156
31C	14.27	31.91	50	10.03	32.53	25.05	293.8	.228
51C	9.89	32.55	75	8.52	32.67	25.39	261.4	.297
63C	9.05	32.60	100	8.06	33.20	25.88	215.1	.357
75C	8.52	32.66	150	7.55	33.82	26.44	162.5	.451
89C	8.18	32.91	200	6.93	33.93	26.61	147.3	.528
101C	8.05	33.23	250	6.43	33.94	26.69	140.5	.600
150C	7.54	33.82	300	5.91	33.98	26.79	131.1	.668
201C	6.92	33.93	400	5.28	34.06	26.92	119.0	.793
251C	6.42	33.94	500	4.85	34.13	27.03	109.7	.907
300C	5.90	33.98	600	4.38	34.21	27.14	99.4	1.012
402C	5.27	34.06	700	4.14	34.29	27.23	91.4	1.107
501C	4.85	34.13	800	3.90	34.38	27.33	82.8	1.194
600C	4.37	34.20	1000	3.41	34.47	27.45	71.9	1.349
703C	4.13	34.29						
803C	3.89	34.38						
1003C	3.41	34.47						

NA 40 45 00.0 N 127 04.3 W DATE 25 AUG 71 1638 GCT WIRE
DRY 62.5 WET 57.0 CRUISE C7108H WIND DIRECTION 34 VEL 22 KTS BAR 22
SWELL DIRECTION 30 H 06 T 10 CLOUD 6 AMT 8 WEATHER 02

0C	18.29	31.28	0	18.29	31.28	22.39	546.5	0
1C	18.29	31.28	10	18.27	31.29	22.40	546.1	.055
14C	18.26	31.29	20	16.54	31.38	22.87	501.0	.107
26C	14.44	31.64	30	13.30	32.03	24.06	387.3	.151
32C	12.76	32.23	50	9.37	32.50	25.13	285.4	.219
53C	9.05	32.55	75	8.31	32.70	25.46	255.3	.286
66C	8.52	32.65	100	8.04	33.25	25.92	211.8	.345
79C	8.24	32.75	150	7.55	33.79	26.41	165.2	.439
88C	8.11	32.98	200	6.99	33.92	26.60	148.6	.517
100C	8.04	33.24						
155C	7.49	33.81						
204C	6.94	33.93						

NA 80 45 20.8 N 126 16.9 W DATE 25 AUG 71 2207 GCT WIRE
DRY 64.2 WET 59.1 CRUISE C7108H WIND DIRECTION 34 VEL 15 KTS BAR 22
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 7 WEATHER 02

0C	18.57	30.89	0	18.57	30.90	22.02	581.5	0
2C	18.57	30.89	10	18.40	31.51	22.54	532.6	.056
10C	18.40	31.51	20	15.95	32.19	23.63	429.0	.104
21C	15.60	32.24	30	12.19	32.50	24.54	332.8	.142
30C	12.19	32.49	50	9.63	32.64	25.20	279.1	.203
50C	9.63	32.64	75	8.32	32.77	25.51	250.3	.269
63C	9.04	32.67	100	8.21	33.33	25.96	208.2	.327

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
75C	8.32	32.77		150	8.08	33.87	26.40	166.8	.420
88C	7.75	32.86		200	7.70	33.96	26.53	155.4	.501
101C	8.27	33.37							
151C	8.05	33.88							
200C	7.70	33.96							

NA 120 45 41.5 N 125 29.0 W DATE 26 AUG 71 0358 GCT WIRE

DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 6 WEATHER

0C	18.07	31.64	0	18.07	31.65	22.72	515.2	0
1C	18.07	31.64	10	18.07	31.63	22.71	516.2	.052
10C	18.07	31.63	20	15.85	32.11	23.59	432.5	.099
21C	15.52	32.17	30	11.88	32.51	24.71	325.6	.137
30C	11.87	32.51	50	9.60	32.61	25.18	281.6	.198
51C	9.49	32.61	75	8.45	32.65	25.39	261.1	.265
64C	8.97	32.66	100	7.67	32.78	25.61	240.7	.328
75C	8.45	32.65	150	7.68	33.71	26.34	172.8	.431
87C	8.32	32.70	200	7.09	33.94	26.60	148.3	.512
103C	7.66	32.78						
153C	7.68	33.77						
202C	7.05	33.95						

AH 5 46 14.0 N 124 12.0 W DATE 26 AUG 71 1507 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 00 VEL 15 KTS BAR
SWELL DIRECTION 30 H 05 T 09 CLOUD 5 AMT 2 WEATHER

0C	15.44	29.20	0	15.44	29.21	21.45	636.3	0
1C	15.44	29.20	10	13.52	30.75	23.03	485.0	.056
11C	13.19	31.02	20	10.49	33.05	25.38	262.0	.093
20C	10.49	33.05	30	8.63	33.30	25.88	214.7	.117
31C	8.51	33.33						

AH 15 46 14.0 N 124 26.4 W DATE 26 AUG 71 1632 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 00 VEL 16 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 3 WEATHER

0C	15.92	27.30	0	15.92	27.30	19.90	785.7	0
2C	15.92	27.30	10	16.08	30.45	22.27	558.7	.067
12C	16.12	31.41	20	9.63	32.28	24.92	305.3	.110
20C	9.63	32.28	30	8.26	32.72	25.47	253.0	.138
31C	8.12	32.74	50	7.54	33.49	26.18	185.8	.182
52C	7.48	33.55	75	7.40	33.77	26.43	163.1	.226
65C	7.53	33.69	100	6.99	33.92	26.59	147.5	.265
79C	7.34	33.80	150	6.79	33.94	26.64	143.9	.337
90C	7.13	33.88						
102C	6.96	33.92						
157C	6.76	33.94						

AH 25 46 14.0 N 124 40.8 W DATE 26 AUG 71 1809 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 6 WEATHER

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
100C	7.37	33.14							
152C	7.01	33.79							
200C	6.58	33.93							

AH 85 46 14.0 N 126 07.5 W DATE 27 AUG 71 0455 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 33 VEL 20 KTS BAR
SWELL DIRECTION 30 H 06 T 09 CLOUD 8 AMT 1 WEATHER

0C	17.77	31.85	0	17.77	31.85	22.95	493.0	0
1C	17.77	31.85	10	17.77	31.88	22.97	491.7	.049
11C	17.77	31.88	20	15.83	31.92	23.45	445.7	.096
21C	15.52	31.94	30	12.25	32.36	24.52	343.4	.136
30C	12.25	32.36	50	9.32	32.58	25.21	278.7	.198
54C	9.17	32.63	75	8.10	32.67	25.46	254.7	.264
64C	8.57	32.62	100	7.49	33.00	25.80	222.7	.324
78C	7.99	32.69	150	7.22	33.63	26.34	172.2	.423
87C	7.63	32.71	200	6.79	33.92	26.62	146.0	.502
102C	7.49	33.05						
154C	7.20	33.66						
200C	6.79	33.92						

AH 105 46 14.0 N 126 36.0 W DATE 27 AUG 71 0648 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 20 KTS BAR
SWELL DIRECTION 30 H 06 T 09 CLOUD 8 AMT 2 WEATHER

0C	17.70	32.02	0	17.70	32.02	23.10	479.0	0
1C	17.70	32.02	10	17.70	32.03	23.10	478.6	.048
10C	17.70	32.03	20	15.60	32.31	23.80	412.3	.092
20C	15.60	32.31	30	12.84	32.45	24.48	347.7	.130
31C	12.56	32.46	50	9.02	32.59	25.26	273.5	.193
50C	9.02	32.59	75	8.00	32.60	25.42	258.4	.259
62C	8.68	32.60	100	7.32	32.63	25.53	247.9	.322
75C	8.00	32.60	150	7.41	33.56	26.26	179.9	.429
88C	7.85	32.62	200	6.80	33.86	26.58	150.5	.512
100C	7.31	32.62						
150C	7.40	33.56						
200C	6.80	33.86						

AH 120 46 14.0 N 126 58.0 W DATE 27 AUG 71 0932 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 6 AMT 1 WEATHER

0C	17.61	32.12	0	17.61	32.13	23.19	469.7	0
1C	17.61	32.12	10	17.63	32.15	23.21	468.0	.047
10C	17.62	32.15	20	17.63	32.14	23.21	469.0	.094
20C	17.62	32.14	30	12.01	32.18	24.43	352.4	.135
30C	12.01	32.18	50	9.52	32.60	25.19	280.6	.198
52C	9.27	32.64	75	8.18	32.61	25.40	260.2	.266
63C	8.58	32.64	100	7.33	32.81	25.66	234.0	.327
75C	8.18	32.61	150	7.49	33.73	26.38	168.8	.428
88C	7.42	32.67						
100C	7.33	32.81						
150C	7.49	33.73						

0C	16.64	29.29	0	16.64	29.29	21.26	654.9	0
1C	16.64	29.29	10	16.64	31.71	23.11	478.2	.057
10C	16.64	31.71	20	11.23	32.43	24.76	320.6	.097
21C	10.61	32.43	30	8.09	32.58	25.39	260.7	.126
32C	7.77	32.59	50	7.50	32.84	25.67	234.0	.175
51C	7.49	32.85	75	7.72	33.32	26.03	200.9	.229
62C	7.62	32.99	100	7.57	33.71	26.35	170.9	.276
76C	7.72	33.35	150	7.04	33.93	26.60	147.8	.356
90C	7.70	33.51						
100C	7.56	33.70						
150C	7.04	33.93						

AH 35 46 14.0 N 124 55.2 W DATE 26 AUG 71 2006 GCT WIRE

DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 17 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 1 WEATHER

0C	17.26	31.66	0	17.26	31.67	22.92	495.3	0
2C	17.26	31.66	10	16.71	31.73	23.10	479.0	.049
10C	16.71	31.72	20	11.42	32.02	24.41	353.7	.090
23C	9.74	32.13	30	8.78	32.31	25.08	290.5	.123
36C	8.69	32.44	50	7.99	32.52	25.36	264.1	.178
57C	7.77	32.59	75	7.47	33.10	25.89	214.2	.238
67C	7.57	32.94	100	7.69	33.58	26.23	181.9	.287
80C	7.45	33.18	150	7.48	33.85	26.47	159.6	.373
90C	7.56	33.38						
105C	7.74	33.67						
162C	7.21	33.90						

AH 45 46 14.0 N 125 09.5 W DATE 26 AUG 71 2142 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 3 WEATHER

0C	17.02	31.70	0	17.02	31.71	23.01	487.0	0
1C	17.02	31.70	10	16.99	31.70	23.02	486.9	.049
12C	16.98	31.70	20	14.29	31.86	23.73	418.5	.094
20C	14.29	31.86	30	10.02	32.36	24.92	305.9	.130
32C	9.25	32.46	50	8.00	32.61	25.43	257.3	.186
50C	8.00	32.61	75	7.74	32.96	25.74	228.1	.247
62C	7.70	32.70	100	7.81	33.50	26.15	189.3	.299
75C	7.74	32.96	150	7.29	33.90	26.54	153.0	.385
87C	7.84	33.33	200	6.75	33.97	26.67	141.8	.459
101C	7.80	33.51						
150C	7.28	33.90						
201C	6.74	33.97						

AH 65 46 14.0 N 125 39.0 W DATE 27 AUG 71 0057 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 33 VEL 20 KTS BAR
SWELL DIRECTION 30 H 06 T 10 CLOUD 8 AMT 2 WEATHER

0C	18.06	31.53	0	18.06	31.53	22.64	523.0	0
1C	18.06	31.53	10	18.06	31.53	22.64	523.3	.052
10C	18.06	31.53	20	12.82	31.90	24.05	388.2	.098
20C	12.82	31.89	30	10.31	32.47	24.96	302.1	.132
30C	10.31	32.47	50	8.52	32.64	25.38	262.5	.189
50C	8.52	32.64	75	7.57	32.71	25.57	244.4	.252
62C	7.92	32.65	100	7.38	33.14	25.93	210.0	.309
77C	7.54	32.73	150	7.03	33.78	26.48	158.8	.401
91C	7.40	32.92	200	6.58	33.93	26.66	142.5	.476

AN 30 45 45.2 N 126 49.5 W DATE 27 AUG 71 1323 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 35 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 09 CLOUD 6 AMT 4 WEATHER

0C	18.00	31.49	0	18.00	31.50	22.62	524.5	0
1C	18.00	31.49	10	17.99	31.50	22.63	523.8	.052
10C	17.99	31.50	20	17.98	31.53	22.65	521.7	.105
20C	17.98	31.53	30	15.62	31.61	23.26	464.3	.154
31C	15.32	31.63	50	10.27	32.47	24.96	302.4	.231
51C	10.06	32.51	75	9.38	32.60	25.25	274.4	.303
64C	9.52	32.60	100	7.97	32.98	25.72	230.5	.366
76C	9.04	32.60	150	7.83	33.77	26.36	170.7	.466
88C	8.38	32.75	200	6.88	33.90	26.59	148.8	.546
101C	7.95	33.00						
151C	7.83	33.78						
201C	6.85	33.90						

AN 65 45 09.0 N 126 38.0 W DATE 27 AUG 71 1811 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 01 VEL 18 KTS BAR
SWELL DIRECTION 30 H 06 T 09 CLOUD 1 AMT 3 WEATHER

0C	18.45	30.41	0	18.45	30.42	21.69	613.6	0
1C	18.45	30.41	10	18.44	30.43	21.71	612.3	.061
12C	18.44	30.48	20	17.49	31.07	22.42	544.1	.119
23C	16.83	31.34	30	14.13	31.83	23.74	417.7	.167
33C	12.93	32.02	50	10.37	32.58	25.03	295.7	.239
51C	10.31	32.59	75	8.66	32.68	25.38	262.5	.308
62C	9.32	32.60	100	7.98	33.02	25.75	227.9	.370
76C	8.64	32.69	150	7.70	33.77	26.38	168.4	.469
88C	8.16	32.87	200	7.03	33.90	26.58	150.2	.548
102C	7.97	33.04						
150C	7.70	33.77						
202C	6.99	33.91						

NH 105 44 39.1 N 126 29.0 W DATE 27 AUG 71 2200 GCT WIRE
DRY 64.8 WET 61.8 CRUISE C7108H WIND DIRECTION 02 VEL 14 KTS BAR 17
SWELL DIRECTION 30 H 06 T 10 CLOUD 4 AMT 7 WEATHER 02

0C	18.11	30.58	0	18.11	30.58	21.90	593.4	0
2C	18.11	30.58	10	18.08	30.59	21.91	592.7	.059
11C	18.08	30.59	20	14.58	32.15	23.90	403.0	.109
20C	14.58	32.15	30	12.90	32.41	24.44	351.7	.147
31C	12.80	32.44	50	9.80	32.63	25.16	283.3	.210
50C	9.80	32.62	75	8.25	32.80	25.54	247.1	.277
64C	8.72	32.66	100	8.00	33.28	25.95	208.3	.333
76C	8.22	32.82	150	7.71	33.86	26.45	161.9	.426
91C	8.05	33.06	200	7.09	33.92	26.59	149.7	.504
100C	8.00	33.28	250	6.52	33.97	26.70	138.9	.576
150C	7.71	33.86	300	6.15	33.99	26.76	133.8	.644
200C	7.09	33.92	400	5.37	34.05	26.91	120.8	.771
250C	6.51	33.97	500	4.79	34.13	27.03	109.4	.886
304C	6.12	33.99	600	4.44	34.25	27.17	97.0	.990
402C	5.35	34.05	700	4.23	34.31	27.24	90.9	1.083
500C	4.79	34.12	800	3.91	34.36	27.31	84.3	1.171
602C	4.43	34.25	1000	3.41	34.45	27.43	73.5	1.329
704C	4.22	34.31						
802C	3.90	34.36						
1002C	3.41	34.45						

NH 85 44 39.1 N 126 01.3 W DATE 28 AUG 71 0204 GCT WIRE
DRY WET CRUISE C7108H WIND DIRECTION 33 VEL 20 KTS BAR

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
SWELL DIRECTION 33 H 06 T 08				CLOUD 6 AMT 8 WEATHER					
0C	17.07	31.27		0	17.07	31.27	22.67	519.5	0
1C	17.07	31.27		10	16.76	31.38	22.83	505.0	.051
10C	16.76	31.38		20	16.38	31.46	22.97	491.8	.101
20C	16.38	31.45		30	10.07	32.32	24.88	309.4	.141
30C	10.07	32.32		50	8.29	32.68	25.44	256.3	.198
51C	8.20	32.70		75	7.90	33.39	26.05	198.6	.255
66C	7.96	33.13		100	7.82	33.67	26.29	176.6	.301
77C	7.89	33.44		150	7.26	33.91	26.55	152.6	.384
88C	7.86	33.61		200	6.84	33.93	26.63	145.6	.458
100C	7.81	33.67		250	6.46	34.02	26.75	135.0	.528
151C	7.25	33.91		300	6.11	34.04	26.81	129.6	.594
200C	6.84	33.93		400	5.64	34.13	26.93	118.5	.718
251C	6.45	34.02		500	5.15	34.17	27.03	110.2	.833
306C	6.07	34.04		600	4.62	34.22	27.12	101.4	.938
405C	5.62	34.13		700	4.47	34.32	27.22	93.2	1.036
501C	5.14	34.17		800	4.20	34.38	27.30	86.2	1.125
605C	4.60	34.22		1000	3.49	34.46	27.44	73.5	1.285
704C	4.47	34.32							
801C	4.20	34.38							
1000C	3.49	34.46							

NH 65 44 39.1 N 125 33.8 W DATE 28 AUG 71 0734 GCT WIRE
DRY 61.8 WET 60.0 CRUISE C7108H WIND DIRECTION 05 VEL 06 KTS BAR 16
SWELL DIRECTION 30 H 04 T 10 CLOUD 4 AMT 1 WEATHER 01

0C	18.05	30.33	0	18.05	30.33	21.72	610.2	0
1C	18.05	30.33	10	18.07	30.33	21.72	611.1	.061
12C	18.07	30.33	20	15.88	31.19	22.88	499.9	.117
20C	15.87	31.19	30	11.21	32.05	24.47	348.3	.159
31C	10.74	32.12	50	7.71	32.79	25.61	239.9	.218
50C	7.71	32.79	75	7.84	33.35	26.02	201.1	.273
62C	7.86	33.13	100	7.60	33.70	26.34	171.7	.320
76C	7.84	33.36	150	7.09	33.89	26.56	151.1	.400
88C	7.85	33.60	200	6.64	33.92	26.64	144.0	.474
102C	7.55	33.71	250	6.21	34.01	26.77	132.5	.543
154C	7.07	33.90	300	5.78	33.90	26.74	135.4	.610
201C	6.63	33.92	400	5.43	34.10	26.94	117.5	.736
251C	6.20	34.01	500	5.03	34.19	27.05	107.6	.849
300C	5.77	33.90	600	4.52	34.28	27.18	95.7	.950
405C	5.42	34.12	700	4.28	34.35	27.27	88.6	1.043
507C	5.00	34.19	800	4.07	34.41	27.34	82.5	1.128
602C	4.51	34.28	1000	3.53	34.49	27.45	71.8	1.282
703C	4.28	34.35						
802C	4.07	34.41						
1000C	3.53	34.49						

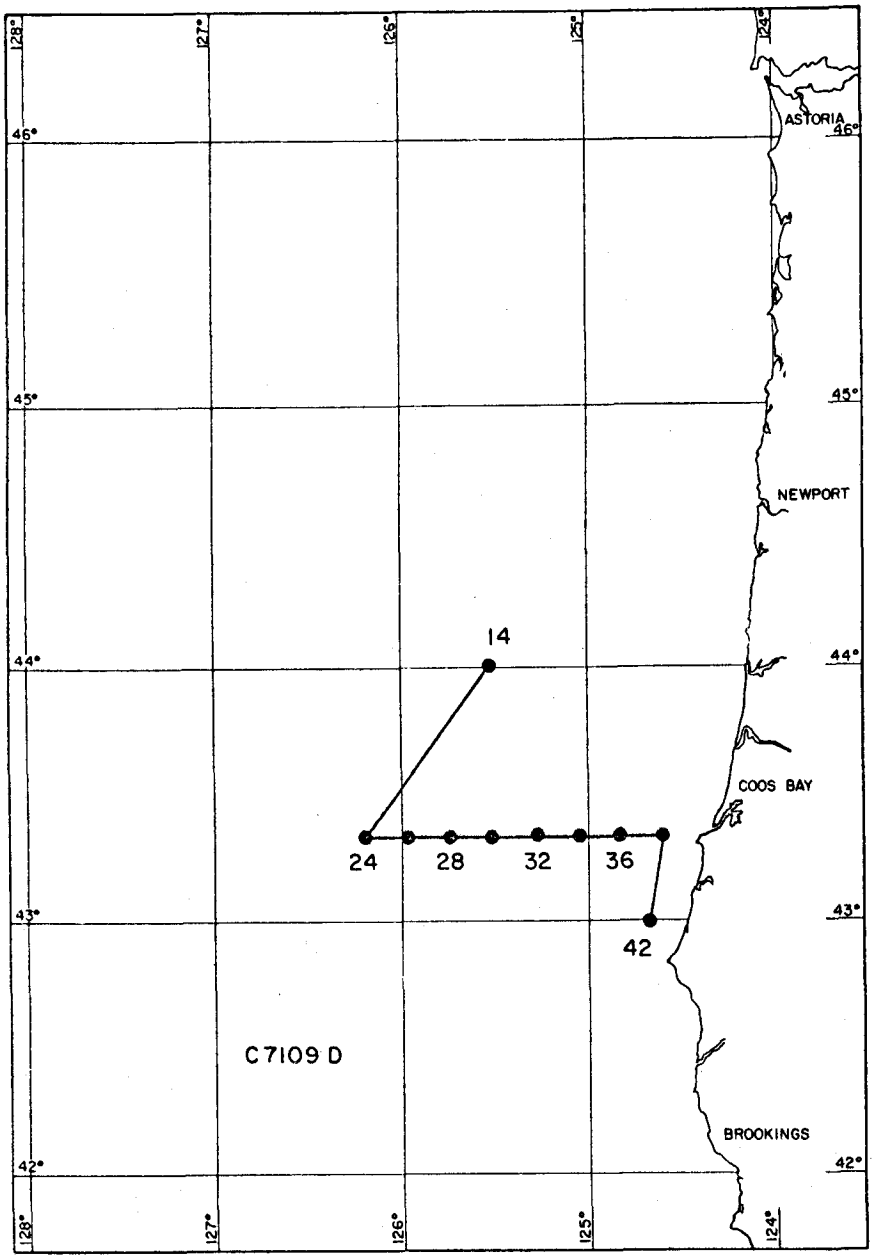
OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
14	44 00.0 N	125 31.3 W		DATE 11 SEP 71 0903 GCT WIRE					
DRY 63.0 WET 59.5 CRUISE C7109D WIND DIRECTION 27 VEL 10 KTS BAR 19									
SWELL DIRECTION 25 H 05 T 12				CLOUD 3 AMT 1 WEATHER 03					
0	17.42	31.088		0	17.42	31.09	22.45	540.6	0
10	17.44	31.109		10	17.44	31.11	22.46	539.8	.054
30	11.85	32.333		20	14.97	31.68	23.45	445.7	.103
50	8.57	32.658		30	11.85	32.34	24.58	338.3	.142
75	8.01	33.071		50	8.57	32.66	25.38	261.8	.202
100	8.04	33.642		75	8.01	33.08	25.79	223.6	.263
150	7.40	33.897		100	8.04	33.65	26.23	182.0	.314
200	6.88	33.953		150	7.41	33.90	26.52	154.8	.398
250	6.58	33.982		200	6.89	33.96	26.64	144.4	.473
300	6.24	34.013		250	6.58	33.99	26.70	139.0	.544
400	5.95	34.067		300	6.24	34.02	26.77	132.9	.612
598	4.76	34.202		400	5.95	34.07	26.85	126.4	.741
799	4.21	34.333		500	5.36	34.13	26.97	115.5	.862
999	3.63	34.411		600	4.75	34.20	27.10	104.0	.972
				700	4.44	34.27	27.19	96.1	1.072
				800	4.21	34.33	27.26	89.7	1.165
				1000	3.63	34.41	27.38	78.7	1.333

24 43 20.0 N 126 12.0 W DATE 11 SEP 71 1630 GCT WIRE 00
DRY 63.6 WET 59.0 CRUISE C7109D WIND DIRECTION 33 VEL 07 KTS BAR 23
SWELL DIRECTION 28 H 06 T 09 CLOUD 7 AMT 3 WEATHER

0	17.94	31.211	0	17.94	31.22	22.42	543.5	0
10	17.95	31.209	10	17.95	31.21	22.42	544.1	.054
30	16.15	31.655	20	17.42	31.37	22.66	521.2	.108
50	10.78	32.538	30	16.15	31.66	23.18	472.2	.157
75	8.85	32.628	50	10.78	32.54	24.93	305.2	.235
100	8.13	32.820	75	8.85	32.63	25.32	268.6	.307
150	7.62	33.766	100	8.13	32.82	25.57	244.3	.371
199	6.94	33.924	150	7.63	33.77	26.39	167.6	.474
249	6.37	33.966	200	6.93	33.93	26.61	147.3	.553
299	5.84	33.921	250	6.36	33.97	26.72	137.6	.624
399	5.22	34.013	300	5.83	33.92	26.75	134.9	.692
597	4.64	34.188	400	5.22	34.01	26.90	121.6	.820
797	4.14	34.314	500	4.87	34.11	27.01	111.6	.937
997	3.64	34.412	600	4.63	34.19	27.10	103.5	1.044
			700	4.38	34.26	27.18	96.4	1.144
			800	4.13	34.32	27.26	90.1	1.237
			1000	3.63	34.41	27.38	78.6	1.406

26 43 20.0 N 125 58.6 W DATE 11 SEP 71 1955 GCT WIRE
DRY 65.0 WET 60.5 CRUISE C7109D WIND DIRECTION 34 VEL 08 KTS BAR 24
SWELL DIRECTION 25 H 05 T 08 CLOUD AMT 0 WEATHER

0	18.06	31.120	0	18.06	31.13	22.32	552.9	0
10	17.90	31.117	10	17.90	31.12	22.36	549.7	.055
20	15.50	31.752	20	15.50	31.76	23.39	451.1	.105
30	13.01	32.217	30	13.01	32.22	24.27	367.9	.146
50	10.40	32.574	50	10.40	32.58	25.02	296.3	.213
62	9.71	32.604	75	8.85	32.63	25.31	269.0	.283
75	8.85	32.623	100	7.97	33.06	25.79	224.3	.345
87	8.32	32.697	150	7.61	33.67	26.31	174.8	.445



	OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2		Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)		(m)	(°C)	(‰)		(x10^5)	(dyn.m)
100	7.97	33.059			200	6.98	33.91	26.59	149.3	.526
125	7.83	33.438			250	6.34	33.92	26.69	140.5	.598
150	7.61	33.668								
175	7.35	33.835								
195	7.05	33.897								
250	6.34	33.924								

28 43 20.0 N 125 44.8 W DATE 11 SEP 71 2150 GCT WIRE
DRY 66.2 WET 61.1 CRUISE C7109D WIND DIRECTION 34 VEL 10 KTS BAR 23
SWELL DIRECTION 26 H 05 T 09 CLOUD 3 AMT 1 WEATHER

0	17.70	31.171		0	17.70	31.18	22.45	540.9	0
9	16.75	31.564		10	16.59	31.61	23.04	484.9	.051
28	13.35	32.249		20	14.88	31.99	23.71	420.8	.097
46	10.45	32.584		30	12.98	32.30	24.33	361.7	.136
69	8.91	32.728		50	10.06	32.62	25.11	288.0	.201
93	8.36	33.037		75	8.71	32.80	25.47	254.3	.268
139	7.99	33.709		100	8.29	33.15	25.81	222.1	.328
185	7.26	33.855		150	7.82	33.77	26.36	170.4	.426
231	6.89	33.962		200	7.12	33.90	26.56	152.2	.507
278	6.43	33.984		250	6.71	33.98	26.68	141.4	.580
370	5.71	34.029		300	6.24	33.99	26.75	134.6	.649
554	5.04	34.176		400	5.57	34.05	26.88	123.1	.778
740	4.38	34.297		500	5.18	34.13	26.99	113.6	.896
925	3.86	34.378		600	4.87	34.21	27.09	105.0	1.005
				700	4.52	34.27	27.18	96.9	1.106
				800	4.20	34.33	27.26	90.0	1.200

30 43 20.0 N 125 31.0 W DATE 11 SEP 71 2350 GCT WIRE
DRY 68.1 WET 63.1 CRUISE C7109D WIND DIRECTION 00 VEL 18 KTS BAR 23
SWELL DIRECTION 27 H 05 T 10 CLOUD AMT 0 WEATHER

0	17.57	31.198		0	17.57	31.20	22.50	536.0	0
10	16.81	31.508		10	16.81	31.51	22.91	496.7	.052
20	15.52	31.837		20	15.52	31.84	23.45	445.3	.099
30	12.31	32.363		30	12.31	32.37	24.51	344.3	.138
50	9.46	32.596		50	9.46	32.60	25.19	279.7	.201
62	8.74	32.636		75	8.21	32.79	25.53	247.9	.267
75	8.21	32.782		100	8.41	33.44	26.02	202.5	.323
87	8.19	33.068		150	7.90	33.77	26.35	171.3	.416
100	8.41	33.437		200	7.34	33.90	26.53	154.8	.498
125	8.11	33.575		250	6.97	33.95	26.62	147.1	.573
150	7.89	33.768							
175	7.66	33.842							
195	7.40	33.892							
250	6.97	33.947							

32 43 20.5 N 125 16.4 W DATE 12 SEP 71 0010 GCT WIRE 40
DRY 63.4 WET 59.6 CRUISE C7109D WIND DIRECTION 33 VEL 20 KTS BAR 22
SWELL DIRECTION 33 H 03 T 06 CLOUD 7 AMT 1 WEATHER

0	17.23	31.364		0	17.23	31.37	22.71	516.2	0
10	17.24	31.361		10	17.24	31.37	22.70	517.0	.052
30	16.23	31.561		20	16.85	31.45	22.85	502.7	.103
50	14.70	31.722		30	16.23	31.57	23.09	480.8	.152

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
-(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
75	8.94	32.609		50	14.70	31.73	23.54	437.6	.244
100	8.60	32.801		75	8.94	32.61	25.29	271.3	.332
150	8.37	33.556		100	8.60	32.81	25.49	252.5	.398
200	7.98	33.835		150	8.37	33.56	26.11	193.9	.509
250	7.72	33.892		200	7.98	33.84	26.39	168.4	.600
300	7.57	33.916		250	7.72	33.90	26.47	161.2	.682
400	7.27	33.946		300	7.57	33.92	26.52	158.1	.762
599	5.99	34.030		400	7.28	33.95	26.58	153.1	.918
800	4.95	34.116		500	6.67	33.99	26.69	143.5	1.066
1000	4.59	34.239		600	5.98	34.03	26.82	132.3	1.204
				700	5.41	34.07	26.92	123.0	1.331
				800	4.96	34.12	27.01	114.6	1.450
				1000	4.59	34.24	27.15	103.1	1.668

34 43 20.0 N 125 02.9 W DATE 12 SEP 71 0410 GCT WIRE
DRY 63.0 WET 59.5 CRUISE C7109D WIND DIRECTION 33 VEL 20 KTS BAR 22
SWELL DIRECTION 27 H 07 T 12 CLOUD AMT 0 WEATHER

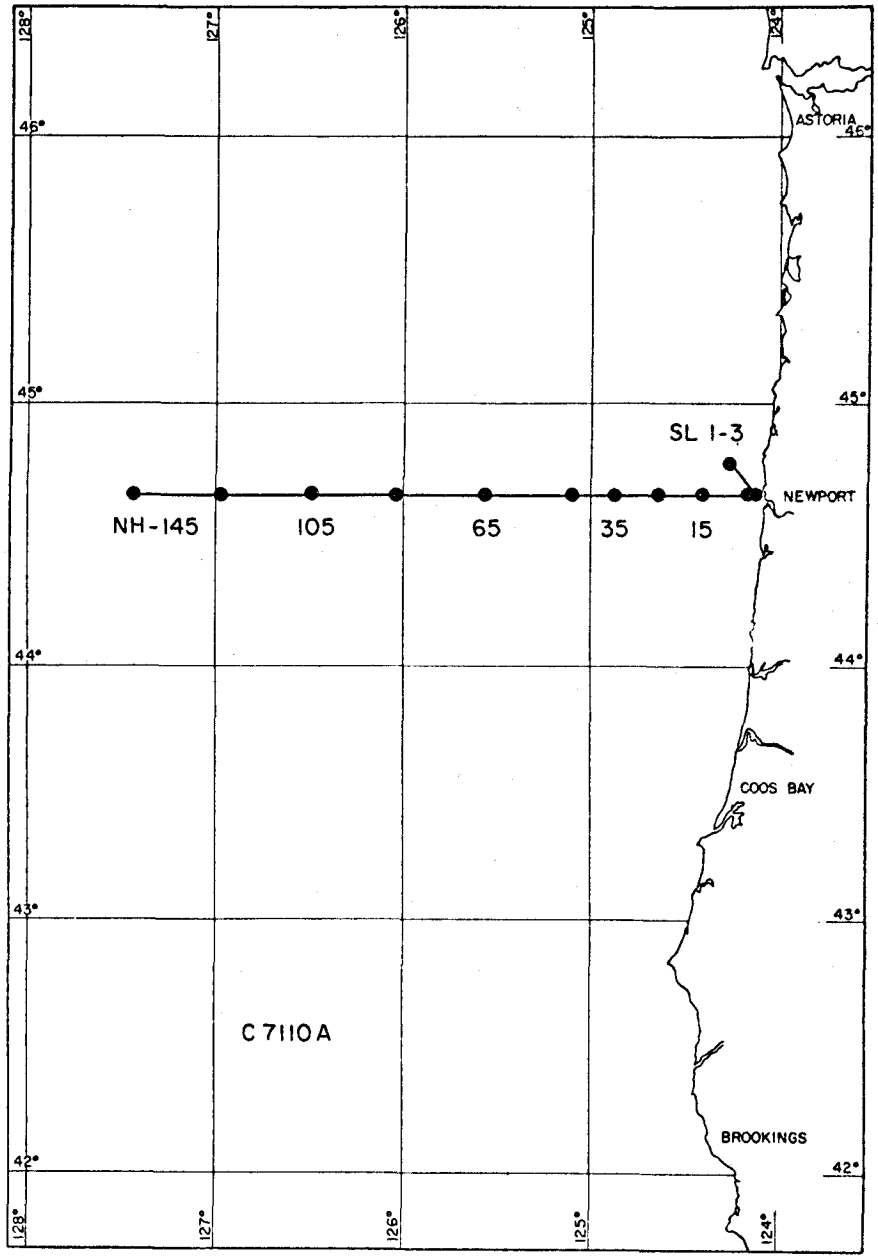
0	17.70	31.135	0	17.70	31.14	22.42	543.5	0
10	17.70	31.132	10	17.70	31.14	22.42	544.0	.054
20	17.31	31.290	20	17.31	31.29	22.63	524.0	.108
30	13.40	32.552	30	13.40	32.56	24.45	350.6	.151
50	9.86	32.591	50	9.86	32.60	25.13	286.3	.215
62	9.22	32.607	75	8.33	32.71	25.45	255.5	.283
75	8.33	32.702	100	8.11	33.26	25.92	212.0	.341
87	8.45	33.023	150	7.86	33.85	26.42	164.9	.436
100	8.11	33.251						
125	8.29	33.727						
150	7.86	33.852						

36 43 20.0 N 124 50.0 W DATE 12 SEP 71 0752 GCT WIRE 20
DRY WET CRUISE C7109D WIND DIRECTION 34 VEL 20 KTS BAR 22
SWELL DIRECTION 34 H 07 T 14 CLOUD AMT 0 WEATHER

0	16.73	31.480	0	16.73	31.48	22.91	496.7	0
10	16.74	31.481	10	16.74	31.49	22.91	497.1	.050
20	16.44	31.565	20	16.44	31.57	23.04	484.7	.099
30	13.68	32.131	30	13.68	32.14	24.07	386.9	.142
50	10.00	32.589	50	10.00	32.59	25.10	288.7	.210
62	9.22	32.615	75	8.48	32.71	25.43	257.8	.278
75	8.48	32.700	100	8.03	33.15	25.85	218.4	.338
87	8.26	32.842	150	7.74	33.71	26.33	173.7	.436
100	8.03	33.149						
125	8.00	33.436						
150	7.74	33.707						
175	7.40	33.852						

38 43 20.0 N 124 36.5 W DATE 12 SEP 71 1025 GCT WIRE
DRY WET CRUISE C7109D WIND DIRECTION 00 VEL 18 KTS BAR 22
SWELL DIRECTION 27 H 04 T 10 CLOUD AMT 0 WEATHER

0	16.02	31.560	0	16.02	31.56	23.13	475.5	0
10	16.01	31.560	10	16.01	31.56	23.13	475.6	.048
20	15.47	31.625	20	15.47	31.63	23.30	459.7	.094
30	9.49	32.590	30	9.49	32.59	25.19	280.3	.131



OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
50	8.44	33.045		50	8.44	33.05	25.70	231.2	.182
62	8.49	33.359		75	8.28	33.55	26.12	191.9	.235
75	8.28			100	7.95	33.78	26.35	170.9	.281
87	8.09	33.663							
100	7.95	33.773							

42 43 00.0 N 124 41.1 W DATE 12 SEP 71 1320 GCT WIRE
DRY 58.5 WET 57.0 CRUISE C7109D WIND DIRECTION 00 VEL 20 KTS BAR 22
SWELL DIRECTION 27 H 04 T 10 CLOUD AMT 0 WEATHER

0	13.62	32.271	0	13.63	32.28	24.19	374.8	0
10	13.63		10	13.63	32.61	24.45	350.5	.036
20	10.13	32.796	20	10.13	32.80	25.24	274.9	.068
30	8.25	32.979	30	8.25	32.98	25.68	233.1	.093
50	8.44	33.412	50	8.44	33.42	25.99	204.0	.137
62	8.42	33.570	75	8.34	33.69	26.22	182.4	.185
75	8.34	33.688	100	8.15	33.79	26.33	172.9	.229
87	8.16	33.787						
100	8.15	33.785						

SL 1 44 46.0 N 124 16.5 W DATE 03 OCT 71 0356 GCT WIRE
DRY WET CRUISE C7110A WIND DIRECTION 33 VEL 07 KTS BAR 22
SWELL DIRECTION 29 H 05 T 08 CLOUD 7 AMT 1 WEATHER

0	14.70	31.816	0	14.70	31.82	23.61	429.4	0
10	9.96	32.538	10	9.96	32.54	25.07	291.1	.036
20	7.94	32.758	20	7.94	32.76	25.55	245.0	.063
30	8.01	33.071	30	8.01	33.08	25.79	222.8	.086
50	7.92	33.423	50	7.93	33.43	26.08	195.7	.128
63	7.78	33.630	75	7.77	33.72	26.33	172.1	.174
76	7.77	33.726						

SL 2 44 46.0 N 124 16.5 W DATE 03 OCT 71 0810 GCT WIRE 00
DRY 56.2 WET 53.8 CRUISE C7110A WIND DIRECTION 18 VEL 04 KTS BAR 22
SWELL DIRECTION 29 H 03 T 08 CLOUD 7 AMT 7 WEATHER 03

0	14.40	31.785	0	14.40	31.79	23.65	425.7	0
10	9.62	32.524	10	9.62	32.53	25.11	286.8	.036
20	7.98	32.737	20	7.98	32.74	25.53	247.1	.062
30	8.24	33.056	30	8.24	33.06	25.74	227.2	.086
50	7.92	33.402	50	7.93	33.41	26.06	197.3	.128
63	7.91	33.596	75	7.80	33.67	26.28	176.5	.175
76	7.79	33.671						

SL 3 44 46.0 N 124 16.5 W DATE 03 OCT 71 1220 GCT WIRE
DRY 56.8 WET 56.0 CRUISE C7110A WIND DIRECTION VEL 00 KTS BAR 22
SWELL DIRECTION 29 H 04 T 07 CLOUD 7 AMT 2 WEATHER 01

0	13.74	31.909	0	13.74	31.91	23.88	403.7	0
10	9.91	32.782	10	9.91	32.79	25.27	272.2	.034
20	8.04	32.892	20	8.04	32.90	25.64	236.4	.059
30	7.92	33.149	30	7.93	33.15	25.86	215.8	.082
50	7.87	33.610	50	7.88	33.61	26.23	181.1	.122
63	7.81	33.674	75	7.75	33.73	26.34	171.1	.166
76	7.75	33.737						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
SL 4	44 46.0 N		124 16.5 W		DATE 03 OCT 71		1708 GCT	WIRE	
DRY 56.6	WET 55.0		CRUISE C7110A		WIND DIRECTION 15		VEL 08 KTS	BAR 23	
SWELL DIRECTION 29 H 05 T 08			CLOUD 7 AMT 7		WEATHER 03				
0	14.22	31.823		0	14.22	31.83	23.72	419.4	0
10	12.47	32.130		10	12.47	32.13	24.30	363.9	.039
20	8.07	32.718		20	8.07	32.72	25.50	249.8	.070
30	8.12	33.023		30	8.12	33.03	25.74	228.0	.094
50	7.92	33.400		50	7.93	33.40	26.06	197.4	.136
63	7.82	33.662		75	7.78	33.70	26.31	174.1	.193
76	7.78	33.700							

SL 5 44 46.0 N 124 16.5 W DATE 03 OCT 71 2121 GCT WIRE
DRY 61.9 WET 58.7 CRUISE C7110A WIND DIRECTION VEL 00 KTS BAR 23
SWELL DIRECTION 29 H 06 T 08 CLOUD 3 AMT 6 WEATHER 02

0	14.29	31.856	0	14.29	31.86	23.73	418.3	0
10	8.39	32.693	10	8.39	32.70	25.44	256.0	.034
20	7.93	32.790	20	7.94	32.79	25.58	242.5	.059
30	8.07	33.123	30	8.07	33.13	25.82	219.8	.082
50	7.86	33.523	50	7.86	33.53	26.16	187.5	.122
63	7.77	33.655	75	7.74	33.71	26.33	172.4	.167
76	7.74	33.715						

NH 3 44 39.1 N 124 07.8 W DATE 04 OCT 71 1915 GCT WIRE 01
DRY 61.9 WET 59.9 CRUISE C7110A WIND DIRECTION 00 VEL 12 KTS BAR 22
SWELL DIRECTION 30 H 06 T 08 CLOUD 0 AMT 1 WEATHER 01

0	13.21	32.181	0	13.21	32.19	24.20	373.6	0
10	11.81	32.517	10	11.81	32.52	24.73	323.6	.035
20	10.32	33.127	20	10.32	33.13	25.47	253.5	.064
30	10.05	33.167	30	10.05	33.17	25.54	246.4	.089

NH 5 44 39.1 N 124 10.6 W DATE 04 OCT 71 2002 GCT WIRE 03
DRY 57.8 WET 56.1 CRUISE C7110A WIND DIRECTION 00 VEL 12 KTS BAR 21
SWELL DIRECTION 30 H 06 T 08 CLOUD AMT 0 WEATHER 02

0	13.40	32.172	0	13.40	32.18	24.16	377.8	0
10	12.46	32.343	10	12.46	32.35	24.47	348.0	.036
20	9.60	33.233	20	9.60	33.24	25.67	234.2	.065
30	9.10	33.340	30	9.10	33.34	25.83	218.7	.088
40	8.57	33.416	50	8.22	33.49	26.08	195.1	.129
50	8.22	33.488						

NH 15 44 39.1 N 124 24.6 W DATE 04 OCT 71 2132 GCT WIRE 10
DRY 59.9 WET 58.7 CRUISE C7110A WIND DIRECTION 00 VEL 15 KTS BAR 20
SWELL DIRECTION 29 H 04 T 05 CLOUD AMT 0 WEATHER 02

0	13.75	31.995	0	13.75	32.00	23.95	397.6	0
10	8.90	32.624	10	8.90	32.63	25.31	268.5	.033
20	7.88	32.786	20	7.89	32.79	25.58	242.1	.059
30	7.94	33.022	30	7.94	33.03	25.76	225.5	.082
50	7.88	33.489	50	7.89	33.49	26.14	190.3	.124
63	7.82	33.628	75	7.80	33.74	26.34	171.3	.169

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
76	7.80	33.747							

NH 25 44 39.1 N 124 38.6 W DATE 04 OCT 71 2308 GCT WIRE 01
DRY 61.1 WET 59.8 CRUISE C7110A WIND DIRECTION 34 VEL 18 KTS BAR 19
SWELL DIRECTION 30 H 06 T 05 CLOUD AMT 0 WEATHER 02

0	15.27	31.674	0	15.27	31.68	23.38	451.5	0
10	15.00	31.749	10	15.00	31.75	23.50	440.7	.045
20	12.04	32.103	20	12.04	32.11	24.36	358.4	.085
30	9.22	32.625	30	9.22	32.63	25.26	273.6	.116
50	8.02	33.062	50	8.02	33.07	25.78	224.0	.166
63	7.96	33.377	75	7.98	33.60	26.20	184.3	.217
76	7.98	33.611	100	7.85	33.76	26.35	171.1	.261
87	7.92	33.702	150	7.42	33.85	26.49	158.5	.344
100	7.85	33.752	200	7.26	33.92	26.56	152.0	.421
125	7.57	33.879	250	7.13	33.93	26.59	150.4	.497
150	7.41	33.850						
200	7.25	33.918						
250	7.13	33.931						

NH 35 44 39.0 N 124 52.6 W DATE 05 OCT 71 0102 GCT WIRE 15
DRY 61.9 WET 60.3 CRUISE C7110A WIND DIRECTION 00 VEL 17 KTS BAR 18
SWELL DIRECTION 30 H 06 T 09 CLOUD AMT 0 WEATHER 02

0	15.44	31.814	0	15.44	31.82	23.45	444.7	0
10	15.42	31.777	10	15.42	31.78	23.43	447.3	.045
20	15.19	31.788	20	15.19	31.79	23.49	442.0	.089
30	10.57	32.613	30	10.57	32.62	25.02	295.8	.126
49	8.89	32.407	50	8.83	32.44	25.17	282.3	.184
75	7.92	33.403	75	7.93	33.41	26.06	197.6	.244
100	7.82	33.706	100	7.82	33.71	26.31	174.1	.290
123	7.61	33.811	150	7.50	33.88	26.49	157.9	.373
148	7.51	33.876	200	7.28	33.91	26.55	153.2	.451
198	7.29	33.910	250	7.03	33.94	26.60	148.6	.526
247	7.05	33.936	300	6.67	33.97	26.68	141.8	.599
297	6.69	33.969						
370	5.98	34.055						

NH 45 44 39.1 N 125 06.5 W DATE 05 OCT 71 0316 GCT WIRE
DRY 60.5 WET 59.2 CRUISE C7110A WIND DIRECTION 00 VEL 15 KTS BAR 19
SWELL DIRECTION 30 H 06 T 09 CLOUD 7 AMT 2 WEATHER 03

0	15.37	31.676	0	15.38	31.68	23.36	453.4	0
10	15.29	31.684	10	15.29	31.69	23.39	451.4	.045
20	14.59	31.807	20	14.59	31.81	23.63	428.4	.089
49	8.04	32.753	30	12.32	32.11	24.31	363.4	.129
74	7.94	33.207	50	7.99	32.78	25.56	245.1	.190
99	7.81	33.552	75	7.93	33.22	25.92	211.5	.247
124	7.72	33.721	100	7.81	33.56	26.20	185.0	.296
148	7.44	33.854	150	7.41	33.86	26.49	158.0	.382
198	6.79	33.939	200	6.77	33.94	26.64	144.2	.458
247	6.30	33.945	250	6.28	33.95	26.71	137.9	.528
296	6.07	34.006	300	6.05	34.01	26.79	131.1	.595
395	5.48	34.042	400	5.46	34.04	26.89	122.3	.722
494	5.16	34.113	500	5.14	34.12	26.99	113.9	.840

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	Z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		(x10^5)	(dyn.m)
802	4.24	34.364		500	4.95	34.14	27.02	110.3	.840
1002	3.56	34.392		600	4.55	34.22	27.13	100.6	.945
				700	4.38	34.30	27.21	93.7	1.042
				800	4.24	34.36	27.28	87.9	1.133
				1000	3.57	34.39	27.37	79.5	1.300

NH 125 44 39.1 N 126 58.9 W DATE 05 OCT 71 1708 GCT WIRE
DRY 59.8 WET 59.8 CRUISE C7110A WIND DIRECTION 33 VEL 07 KTS BAR 21
SWELL DIRECTION 28 H 04 T 08 CLOUD 7 AMT 8 WEATHER 02

0	15.79	31.765	0	15.79	31.77	23.34	455.7	0
10	15.77	31.770	10	15.77	31.77	23.35	455.1	.046
20	15.77	31.775	20	15.77	31.78	23.35	455.0	.091
30	14.86	31.929	30	14.86	31.93	23.67	425.2	.135
50	9.53	32.598	50	9.53	32.60	25.19	280.7	.206
75	8.24	32.769	75	8.24	32.77	25.52	249.3	.272
100	8.09	33.299	100	8.09	33.30	25.96	208.1	.329
150	7.65	33.815	150	7.66	33.82	26.42	164.4	.422
201	7.10	33.950	200	7.11	33.95	26.60	148.0	.500
301	6.37	34.004	250	6.71	33.99	26.69	140.1	.572
402	5.75	34.062	300	6.38	34.00	26.74	135.7	.641
603	4.78	34.188	400	5.76	34.06	26.87	124.8	.771
804	4.14	34.333	500	5.23	34.12	26.98	114.9	.891
1005	3.58	34.406	600	4.79	34.19	27.08	105.7	1.001
			700	4.45	34.26	27.18	97.0	1.103
			800	4.15	34.33	27.27	89.2	1.196
			1000	3.59	34.41	27.38	78.8	1.364

NH 145 44 39.1 N 127 26.6 W DATE 05 OCT 71 2038 GCT WIRE 07
DRY 59.8 WET 59.5 CRUISE C7110A WIND DIRECTION 32 VEL 08 KTS BAR 21
SWELL DIRECTION 29 H 04 T 08 CLOUD 7 AMT 6 WEATHER 01

0	16.10	31.597	0	16.10	31.60	23.14	474.5	0
10	15.96	31.597	10	15.96	31.60	23.17	471.8	.047
20	15.90	31.611	20	15.90	31.62	23.20	469.8	.094
30	16.47	32.196	30	16.47	32.20	23.52	439.6	.140
50	10.12	32.574	50	10.12	32.58	25.07	291.7	.213
75	8.80	32.632	75	8.80	32.64	25.33	267.5	.283
100	8.05	32.778	100	8.05	32.78	25.55	246.3	.347
150	7.17	33.626	150	7.18	33.63	26.34	171.9	.452
200	7.04	33.894	200	7.05	33.90	26.57	150.9	.532
300	5.83	33.964	250	6.47	33.93	26.67	141.8	.605
401	5.28	34.058	300	5.83	33.97	26.79	131.4	.674
601	4.39		400	5.28	34.06	26.92	119.2	.799
802	3.88		500	4.80	34.12	27.03	109.7	.913
1002	3.44		600	4.39	34.19	27.12	101.1	1.019
			700	4.11	34.26	27.21	93.1	1.116
			800	3.88	34.33	27.29	86.2	1.205
			1000	3.44	34.41	27.40	77.1	1.368

593	4.70	34.203	600	4.67	34.21	27.11	102.5	.948

NH 65 44 39.1 N 125 34.6 W DATE 05 OCT 71 0648 GCT WIRE
DRY 59.1 WET 58.0 CRUISE C7110A WIND DIRECTION 33 VEL 17 KTS BAR 19
SWELL DIRECTION 29 H 05 T 08 CLOUD 7 AMT 8 WEATHER 03

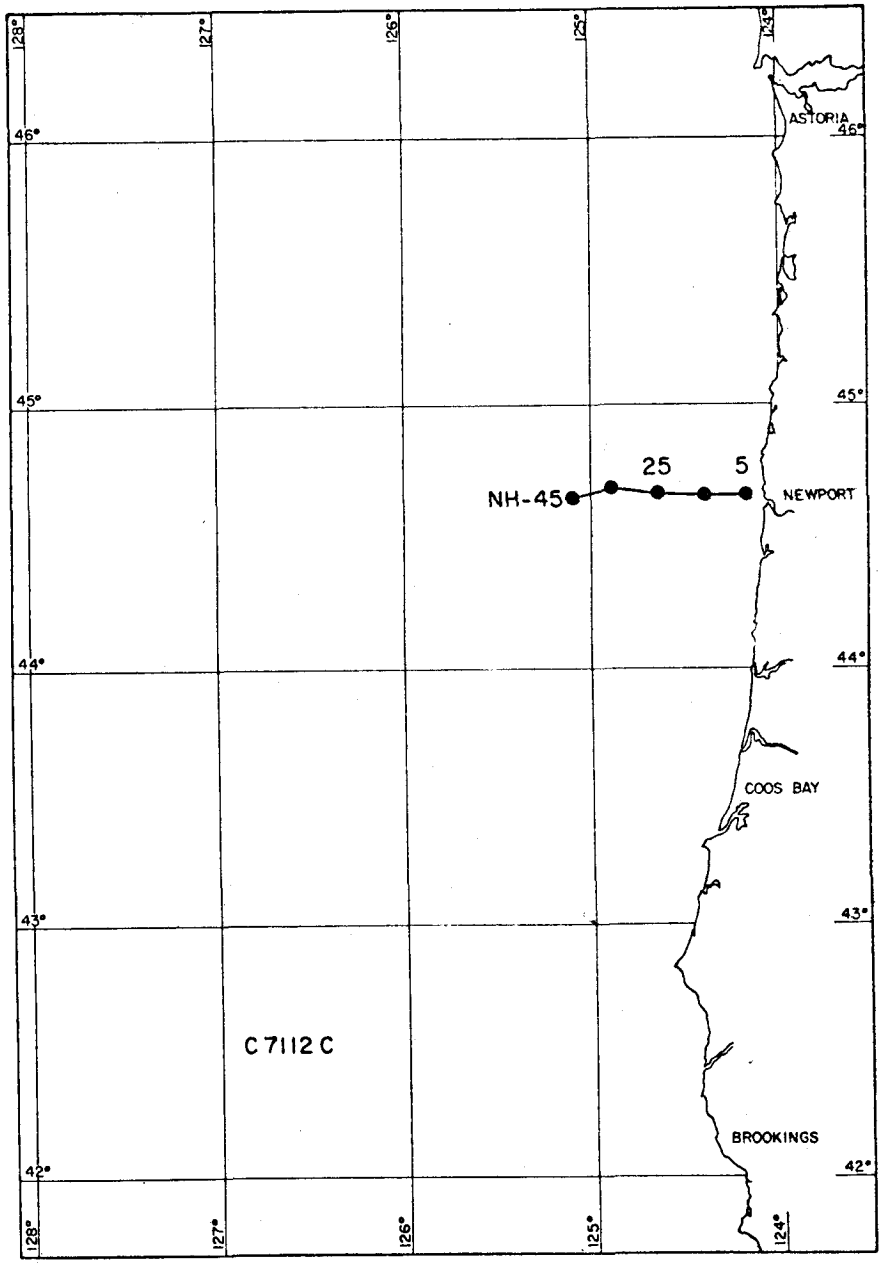
0	14.81	31.862	0	14.81	31.87	23.63	428.3	0
20	11.66	32.305	10	12.97	32.04	24.14	379.7	.040
49	7.85	33.061	20	11.66	32.31	24.59	336.8	.076
74	8.09	33.437	30	10.05	32.58	25.08	290.2	.108
98	7.97	33.697	50	7.86	33.08	25.81	220.7	.159
147	7.34	33.902	75	8.08	33.45	26.07	196.7	.211
198	6.84	33.957	100	7.95	33.71	26.30	175.8	.257
247	6.33	33.989	150	7.31	33.91	26.54	153.1	.340
296	6.06	33.998	200	6.82	33.96	26.65	143.4	.414
395	5.42	34.070	250	6.31	33.99	26.74	135.2	.483
493	4.92	34.142	300	6.03	34.00	26.79	131.5	.550
592	4.58	34.219	400	5.39	34.07	26.92	119.3	.675
790	4.11	34.327	500	4.89	34.15	27.04	108.8	.789
988	3.58	34.412	600	4.56	34.22	27.14	100.2	.894
			700	4.31	34.28	27.21	93.8	.991
			800	4.08	34.33	27.27	88.4	1.082
			1000	3.55	34.42	27.40	77.4	1.247

NH 85 44 39.1 N 126 02.6 W DATE 05 OCT 71 1006 GCT WIRE 15
DRY 58.6 WET 58.6 CRUISE C7110A WIND DIRECTION 00 VEL 15 KTS BAR 19
SWELL DIRECTION 30 H 05 T 05 CLOUD 7 AMT 8 WEATHER 10

0	15.30	31.746	0	15.30	31.75	23.43	446.8	0
10	15.05	31.749	10	15.05	31.75	23.49	441.7	.044
20	14.44	31.852	20	14.44	31.86	23.70	422.1	.088
29	10.59	32.218	30	10.32	32.26	24.79	318.3	.125
49	7.79	32.933	50	7.79	32.96	25.73	228.8	.179
73	7.85	33.388	75	7.85	33.42	26.08	195.9	.232
98	7.75	33.671	100	7.73	33.69	26.31	174.7	.279
147	7.23	33.887	150	7.20	33.89	26.55	152.7	.361
197	6.70	33.945	200	6.67	33.95	26.66	142.4	.434
295	5.81	33.994	250	6.19	33.98	26.75	134.7	.503
393	5.24	34.059	300	5.78	34.00	26.82	128.5	.569
589	4.56	34.226	400	5.21	34.06	26.94	117.7	.692
787	3.98	34.346	500	4.82	34.15	27.05	107.8	.805
983	3.52	34.423	600	4.52	34.23	27.15	99.0	.908
			700	4.22	34.30	27.23	91.6	1.004
			800	3.95	34.35	27.30	85.2	1.092
			1000	3.48	34.43	27.41	75.7	1.253

NH 105 44 39.1 N 126 30.0 W DATE 05 OCT 71 1317 GCT WIRE
DRY 58.0 WET 58.2 CRUISE C7110A WIND DIRECTION 00 VEL 10 KTS BAR 19
SWELL DIRECTION 30 H 04 T 08 CLOUD 7 AMT 8 WEATHER 02

0	15.70	31.414	0	15.70	31.42	23.09	479.5	0
10	15.36	31.711	10	15.36	31.72	23.39	450.9	.047
20	13.81	31.986	20	13.81	31.99	23.93	399.9	.089
30	10.30	32.477	30	10.30	32.48	24.96	301.4	.124
50	8.59	32.642	50	8.58	32.65	25.37	263.2	.181
75	7.83	32.959	75	7.83	32.96	25.73	229.4	.242
100	7.83	33.366	100	7.83	33.37	26.05	199.5	.296
150	7.38	33.842	150	7.39	33.85	26.48	158.7	.385
200	6.96	33.951	200	6.96	33.96	26.63	145.6	.461
300	5.97	33.998	250	6.45	33.99	26.72	137.1	.532
401	5.44	34.065	300	5.97	34.00	26.80	130.6	.599
600	4.55	34.213	400	5.44	34.06	26.91	120.6	.724



OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)
88C	8.27	33.49		200	7.14	33.96	26.60	148.0	.418
100C	8.22	33.67		250	6.53	33.93	26.67	142.5	.490
150C	7.74	33.93		300	6.27	33.99	26.75	135.3	.560
200C	7.13	33.95							
252C	6.51	33.93							
300C	6.27	33.99							

NH 45 44 39.1 N 125 06.4 W DATE 08 DEC 71 2028 GCT WIRE
DRY 42.3 WET 42.1 CRUISE C7112C WIND DIRECTION 17 VEL 26 KTS BAR 23
SWELL DIRECTION 32 H 08 T 05 CLOUD 6 AMT 8 WEATHER

0C	10.27	32.35	0	10.27	32.35	24.87	309.8	0
1C	10.27	32.35	10	10.29	32.35	24.87	310.3	.031
10C	10.29	32.35	20	10.29	32.35	24.86	310.8	.062
22C	10.29	32.35	30	10.29	32.34	24.86	311.6	.093
31C	10.29	32.34	50	9.13	32.65	25.28	271.3	.151
51C	9.04	32.67	75	7.94	32.98	25.73	229.3	.214
62C	8.11	32.89	100	7.95	33.48	26.12	192.7	.267
75C	7.94	32.98						
87C	8.21	33.39						
100C	7.95	33.48						

NH 5 44 39.5 N 124 10.7 W DATE 07 DEC 71 2029 GCT WIRE
DRY 41.1 WET 38.6 CRUISE C7112C WIND DIRECTION 09 VEL 10 KTS BAR 31
SWELL DIRECTION 32 H 08 T 05 CLOUD 6 AMT 5 WEATHER

0C	9.59	31.64	0	9.59	31.65	24.43	351.8	0
1C	9.59	31.64	10	9.88	32.07	24.72	324.5	.034
10C	9.89	32.07	20	9.89	32.30	24.89	307.8	.065
20C	9.89	32.30	30	9.90	32.35	24.93	304.5	.096
30C	9.90	32.35	50	9.89	32.38	24.95	303.2	.157
50C	9.89	32.37						

NH 15 44 39.6 N 124 24.2 W DATE 07 DEC 71 2300 GCT WIRE
DRY 42.1 WET 38.1 CRUISE C7112C WIND DIRECTION 09 VEL 02 KTS BAR 9
SWELL DIRECTION 32 H 06 T 06 CLOUD 3 AMT 8 WEATHER

0C	9.42	31.79	0	9.42	31.79	24.57	338.0	0
1C	9.42	31.79	10	9.89	32.25	24.86	311.3	.032
10C	9.89	32.25	20	9.89	32.27	24.87	310.5	.064
21C	9.89	32.27	30	9.92	32.27	24.86	311.1	.095
32C	9.93	32.27	50	9.79	32.48	25.05	293.5	.155
50C	9.79	32.48	75	8.19	33.53	26.12	192.0	.216
62C	8.56	33.24						
75C	8.19	33.53						
87C	8.15	33.50						

OBSERVED				INTERPOLATED			COMPUTED		
D	T	S	O_2	z	T	S	σ_t	δ	ΔD
(m)	(°C)	(‰)	(ml/l)	(m)	(°C)	(‰)		($\times 10^5$)	(dyn.m)

NH 25 44 40.0 N 124 38.6 W DATE 08 DEC 71 0138 GCT WIRE
DRY 43.0 WET 39.1 CRUISE C7112C WIND DIRECTION 16 VEL 07 KTS BAR 29
SWELL DIRECTION 31 H 07 T 06 CLOUD 6 AMT 8 WEATHER

0C	10.18	32.34	0	10.18	32.34	24.88	309.1	0
1C	10.18	32.34	10	10.17	32.31	24.86	311.3	.031
10C	10.17	32.31	20	10.18	32.35	24.88	309.3	.062
21C	10.18	32.35	30	10.18	32.32	24.86	311.1	.093
30C	10.18	32.32	50	9.79	32.38	24.97	301.6	.154
50C	9.79	32.37	75	8.20	33.13	25.81	221.9	.220
62C	8.87	32.72	100	8.07	33.55	26.16	189.2	.271
75C	8.20	33.13	150	7.82	33.92	26.48	159.6	.358
87C	8.14	33.43	200	7.40	33.98	26.59	149.3	.435
100C	8.07	33.55	250	6.74	34.02	26.71	138.5	.507
150C	7.81	33.91						
200C	7.39	33.98						
251C	6.72	34.02						

NH 35 44 41.3 N 124 53.5 W DATE 08 DEC 71 0528 GCT WIRE
DRY 41.0 WET 39.5 CRUISE C7112C WIND DIRECTION 16 VEL 10 KTS BAR 27
SWELL DIRECTION 32 H 07 T 05 CLOUD 6 AMT 8 WEATHER

0C	10.14	32.30	0	10.14	32.30	24.85	311.4	0
6C	10.14	32.30	10	10.15	32.33	24.87	310.2	.031
14C	10.16	32.35	20	10.16	32.34	24.88	309.3	.062
26C	10.16	32.31	30	10.16	32.28	24.83	314.2	.093
32C	10.16	32.27	50	8.95	32.81	25.44	256.6	.150
54C	8.65	32.96	75	8.40	33.40	25.98	205.3	.208
62C	8.50	33.06	100	8.22	33.67	26.23	182.5	.256
76C	8.39	33.42	150	7.74	33.93	26.50	157.1	.341

TABLE 5. Supplementary observations of surface temperature and salinity.

Date 1971	Time GMT	Latitude	Longitude	Temp °C	Sal ‰
Y7101B					
Jan 8	0140	44°39.1'	124°10.5'	9.05	31.337
Jan 8	0503	44°38.9'	124°24.6'	9.4	32.118
Jan 8	0635	44°39.1'	124°38.1'	10.1	32.372
Jan 8	0817	44°39.1'	124°52.1'	10.0	32.374
Jan 8	1015	44°39.1'	125°06.0'	9.91	32.441
Jan 8	1403	44°30.1'	125°35.0'	9.41	32.543
Jan 8	1855	44°39.4'	125°48.8'	9.2	---
Jan 8	2030	44°39.4'	126°03.0'	8.9	---
Jan 8	2250	44°39.0'	126°17.0'	9.1	32.560
Jan 9	0115	44°39.0'	126°39.0'	9.3	32.553
Jan 9	0503	44°38.6'	126°45.2'	9.5	32.513
Jan 9	0646	44°39.1'	126°58.9'	9.4	32.486
Jan 9	0920	44°38.8'	127°13.0'	9.4	32.470
Jan 9	1120	44°39.2'	127°26.7'	9.5	---
Jan 9	1750	44°40.0'	127°40.8'	9.5	32.462
Jan 9	1825	44°39.1'	127°54.8'	9.5	32.460
Jan 10	1710	44°38.7'	127°55.5'	9.3	32.486
Jan 10	1930	44°39.1'	128°09.0'	9.0	32.594
Jan 10	2225	44°39.6'	128°22.1'	9.0	32.556
Jan 11	0015	44°39.0'	128°36.8'	9.0	32.542
Jan 11	0247	44°39.0'	128°50.0'	9.2	---
Jan 11	0545	44°19.2'	128°51.2'	9.0	32.545
Jan 11	0820	44°18.0'	128°36.2'	8.9	32.582
Jan 11	0935	44°19.0'	128°23.0'	9.3	---
Jan 11	1400	44°18.0'	128°23.7'	8.9	32.554
Jan 11	1805	44°17.8'	128°08.8'	8.9	32.567
Jan 11	1945	44°18.9'	127°55.4'	8.9	---
Jan 11	2209	44°19.2'	127°40.8'	8.1	32.544
Jan 11	2330	44°19.0'	127°26.8'	8.6	32.512
Jan 12	0200	44°19.0'	127°27.0'	8.5	32.524
Jan 12	0740	44°18.6'	127°13.2'	9.1	32.525
Jan 12	1015	44°19.0'	126°58.8'	8.8	32.553
Jan 12	1117	44°19.1'	126°45.0'	8.5	---
Jan 12	1404	44°19.0'	126°31.2'	8.7	---
Jan 12	1500	44°19.0'	126°17.4'	9.2	32.522
Jan 12	1610	44°18.9'	126°03.5'	9.4	32.499
Jan 12	2120	44°18.9'	125°49.0'	8.4	32.498
Jan 12	2245	44°18.9'	125°35.0'	8.6	32.519
Jan 13	0120	44°19.0'	125°21.8'	8.7	32.544
Jan 13	0445	44°19.0'	125°06.0'	9.6	32.487
Jan 13	0715	44°19.0'	124°51.8'	9.6	32.512
Jan 13	1050	44°19.2'	124°50.2'	9.4	32.520
Jan 13	1555	43°59.9'	125°00.0'	9.3	---
Jan 13	1950	43°59.1'	125°21.5'	9.2	---
Jan 13	2240	43°59.0'	125°37.9'	8.9	---
Jan 14	0120	43°59.0'	125°51.5'	8.9	32.533
Jan 14	0310	43°59.0'	126°05.2'	9.1	32.503
Jan 14	0605	43°59.2'	126°17.6'	9.1	32.576
Jan 14	0940	43°59.0'	126°32.6'	9.0	32.556
Jan 14	1120	43°59.1'	126°46.6'	9.5	32.597
Jan 14	1310	43°59.0'	127°00.0'	9.6	32.543
Jan 14	1630	44°00.1'	127°13.3'	8.8	---
Jan 14	1710	44°00.4'	127°21.1'	9.1	---
Jan 14	1945	43°59.0'	127°00.1'	8.5	---
Jan 14	2205	43°59.6'	126°53.1'	9.0	---
Jan 14	2230	43°59.9'	126°46.2'	9.5	---
Jan 14	2340	43°59.5'	126°32.8'	9.4	---
Y7101C					
Jan 21	0500	43°58.8'	124°22.6'	8.7	24.030
Jan 21	0645	43°59.2'	124°26.5'	8.8	32.551
Jan 21	0825	43°59.0'	124°47.1'	9.6	32.352
Jan 21	1110	43°59.0'	125°01.1'	9.4	32.557
Jan 21	1300	43°59.0'	125°11.0'	9.2	32.582
Jan 21	1410	43°59.0'	125°24.0'	8.5	32.496
Jan 21	1515	43°59.0'	125°37.7'	8.9	32.527
Jan 21	1748	43°59.1'	125°51.9'	8.4	32.547
Jan 21	2005	43°58.8'	126°05.4'	8.4	32.590
Jan 21	2145	43°59.0'	126°19.3'	9.1	32.645
Jan 22	0030	43°59.2'	126°32.8'	9.2	32.578
Jan 22	0155	43°59.0'	126°46.5'	9.3	32.514
Jan 22	0300	43°59.0'	127°00.2'	9.4	32.531
Jan 22	0545	43°49.0'	127°02.3'	9.3	32.607
Jan 22	0630	43°39.0'	127°05.0'	9.6	32.651
Jan 22	0713	43°39.0'	126°50.5'	9.4	32.571
Jan 22	1117	43°39.0'	126°36.9'	9.5	32.615
Jan 22	1355	43°39.0'	126°22.4'	9.5	32.526
Jan 22	1505	43°39.0'	126°09.5'	9.5	32.577
Jan 22	1711	43°38.6'	125°56.0'	9.1	32.561
Jan 22	1915	43°39.0'	126°41.9'	9.4	32.520
Jan 22	2145	43°38.8'	126°27.6'	9.5	---
Jan 22	2240	43°39.0'	125°14.0'	9.4	32.569
Jan 23	0120	43°39.0'	125°00.5'	9.6	32.549
Jan 23	0330	43°31.1'	125°00.5'	9.5	32.617
Jan 23	0432	43°20.5'	124°56.6'	9.8	32.565
Jan 23	0800	43°20.5'	125°10.2'	9.9	32.608
Jan 23	1135	43°20.5'	125°24.1'	9.5	32.588
Jan 23	1330	43°20.5'	125°37.5'	9.3	32.519
Jan 23	1555	43°20.0'	125°50.8'	9.2	32.505
Jan 23	1815	43°20.5'	126°04.0'	9.4	32.555
Jan 23	2055	43°20.5'	126°17.9'	9.3	32.641
Jan 23	2330	43°10.2'	126°31.3'	9.2	32.580
Jan 24	0045	43°00.0'	126°45.0'	9.5	32.601
Jan 24	0359	42°59.3'	126°24.0'	9.7	32.677
Jan 24	0645	42°58.1'	126°12.8'	9.7	32.534
Jan 24	0808	43°00.0'	125°57.5'	9.4	32.612
Jan 24	1056	43°00.0'	125°45.0'	9.4	32.514
Jan 24	1210	43°00.0'	125°30.4'	9.5	32.183
Jan 24	1815	42°59.8'	126°10.6'	8.8	32.514
Jan 26	2215	43°00.0'	126°24.0'	9.5	32.525
Jan 27	0205	43°07.0'	125°56.0'	9.0	32.562
Jan 27	0545	43°12.0'	125°29.0'	9.5	32.593
Jan 27	0713	43°16.0'	125°15.6'	9.5	32.523
Jan 27	0930	43°20.4'	124°56.1'	10.0	---
C7101G					
Jan 26	2035	44°46.3'	124°16.5'	9.5	---
Jan 27	1925	44°46.3'	124°16.5'	9.3	---
Jan 27	2030	44°46.3'	124°16.5'	9.3	---
Jan 27	2143	44°46.3'	124°16.5'	9.6	---
Jan 27	2250	44°46.3'	124°16.5'	9.4	---
Jan 28	1755	44°46.3'	124°16.5'	8.6	---
Jan 28	2155	44°46.3'	124°16.5'	9.1	---
Jan 29	1945	44°46.3'	124°16.5'	8.7	---
C7102C					
Feb 8	2145	44°46.3'	124°16.5'	8.8	---
Feb 8	2350	44°46.3'	124°16.5'	8.9	---
Feb 9	0210	44°46.3'	124°16.5'	8.5	---
Feb 9	0350	44°46.3'	124°16.5'	8.4	---
Feb 9	0555	44°46.3'	124°16.5'	8.5	---
Feb 9	0740	44°46.3'	124°16.5'	8.5	---
Y7103B					
Mar 6	1820	44°39.1'	124°07.2'	8.3	31.560
Mar 8	0020	44°39.1'	125°35.0'	8.3	32.578
Mar 8	0245	44°39.1'	126°03.1'	8.3	32.558
Mar 8	0745	44°39.2'	126°31.0'	8.6	---
Mar 8	1510	44°39.1'	125°06.0'	8.5	32.579
Mar 8	1745	44°40.0'	124°57.8'	8.1	---
C7103C					
Mar 8	2030	44°46.4'	124°16.5'	8.4	---
Mar 9	0015	44°46.4'	124°16.5'	8.2	---
				8.1	

Date 1971	Time GMT	Latitude	Longitude	Temp °C	Sal ‰
Mar 9	0345	44°46.6'	124°16.5'	8.1	---
Mar 9	0700	44°46.6'	124°16.5'	8.0	---
Y7103C					
Mar 9	0330	44°39.1'	124°24.4'	8.5	---
Mar 9	0450	44°39.1'	124°38.5'	8.2	---
Mar 9	0840	44°19.0'	124°13.2'	8.4	---
Mar 9	1045	44°19.0'	124°27.1'	8.3	---
Mar 9	1250	44°19.0'	124°41.0'	8.3	---
Mar 9	1450	44°19.0'	124°55.2'	8.3	---
Mar 9	1730	44°19.1'	125°09.2'	8.6	---
Mar 9	2255	44°19.0'	125°36.7'	9.1	---
Mar 10	0245	44°19.0'	126°04.8'	8.7	---
Mar 10	0630	44°19.0'	126°32.5'	8.8	---
Mar 10	1050	43°59.1'	126°33.5'	9.3	---
Mar 11	0130	43°59.1'	126°05.7'	9.4	---
Mar 11	0625	43°58.9'	125°38.3'	9.0	---
Mar 11	1015	43°59.0'	125°10.7'	8.9	---
Mar 11	1250	43°59.0'	124°56.9'	8.6	---
Mar 11	1440	43°59.0'	124°42.8'	8.5	---
Mar 12	1545	43°59.0'	124°29.1'	8.5	---
Mar 12	1745	43°59.0'	124°15.2'	8.6	---
Mar 12	2035	43°39.1'	124°19.7'	8.4	---
Mar 12	2225	43°38.8'	124°33.2'	8.6	---
Mar 13	0645	43°38.8'	124°46.7'	8.4	---
Mar 13	0925	43°39.2'	125°00.5'	8.5	---
Mar 13	1155	43°38.8'	125°14.5'	8.6	---
Mar 13	1550	43°39.0'	125°42.0'	8.5	---
Mar 13	1935	43°39.5'	126°09.0'	9.2	---
Mar 13	2310	43°39.0'	126°36.2'	8.9	---
Y7103E					
Mar 28	1715	44°38.6'	124°10.4'	8.8	32.165
Mar 28	1747	44°39.6'	124°17.5'	8.6	---
Mar 28	1821	44°39.7'	124°24.4'	8.9	---
Mar 28	1855	44°39.7'	124°31.4'	8.8	32.330
Mar 28	1932	44°39.6'	124°38.4'	8.8	---
Mar 28	2030	44°39.2'	124°52.0'	8.6	32.454
Mar 28	2115	44°38.5'	125°06.1'	8.7	32.544
Mar 29	0400	44°38.8'	125°20.0'	8.8	32.551
Mar 29	1015	44°39.2'	125°49.0'	8.9	---
Mar 29	1715	44°50.1'	126°17.0'	8.9	---
Mar 29	1844	44°39.1'	126°31.0'	8.8	---
Mar 30	1050	44°39.2'	124°10.5'	8.7	---
Mar 30	1403	44°38.1'	124°17.5'	8.8	---
Mar 30	1646	44°39.2'	124°24.3'	8.7	---
Mar 30	2119	44°39.4'	124°38.1'	8.7	---
Mar 31	0125	44°39.1'	124°52.4'	8.5	---
Mar 31	0910	44°39.1'	124°06.9'	8.9	---
Mar 31	0940	44°31.1'	124°07.3'	8.9	---
Mar 31	1010	44°29.2'	124°07.7'	8.9	---
Mar 31	1040	44°24.2'	124°08.2'	8.9	---
Mar 31	1110	44°19.3'	124°08.7'	8.9	---
Mar 31	1140	44°14.2'	124°09.1'	8.8	---
Mar 31	1210	44°08.2'	124°09.8'	8.9	---
Mar 31	1355	44°25.5'	124°12.0'	8.6	---
Mar 31	1749	44°50.3'	124°10.3'	8.7	---
Mar 31	2025	44°55.2'	124°22.6'	8.7	---
Y7104B					
Apr 15	2320	44°39.1'	124°07.7'	10.0	31.531
Apr 16	0030	44°39.2'	124°10.6'	10.3	31.044
Apr 16	0230	44°39.2'	124°24.5'	9.3	32.478
Apr 16	0350	44°39.1'	124°38.2'	9.4	32.501
Apr 16	1105	44°46.4'	124°16.6'	9.9	30.888

Date 1971	Time GMT	Latitude	Longitude	Temp °C	Sal ‰
Apr 16	1330	44°46.5'	124°16.2'	9.9	30.894
Apr 16	2045	44°46.7'	124°16.1'	9.9	31.797
Apr 17	0110	44°46.4'	124°16.8'	9.2	32.254
Apr 17	0320	44°46.5'	124°16.5'	9.4	32.260
Apr 17	0435	44°46.5'	124°52.4'	9.5	32.286
Apr 17	1935	44°39.0'	124°52.4'	9.4	32.541
Apr 17	2135	44°39.1'	125°06.1'	8.8	32.493
Apr 18	0105	44°39.1'	125°20.1'	9.1	32.465
Apr 18	0430	44°39.0'	125°35.3'	8.6	32.589
Apr 18	0710	44°39.1'	125°49.2'	9.0	32.617
Apr 18	1218	44°39.1'	126°03.0'	9.1	32.629
Apr 18	1515	44°39.1'	126°31.0'	9.4	32.629
Apr 18	1915	44°39.6'	126°38.9'	9.5	32.612
Apr 18	2320	44°39.1'	127°27.0'	9.0	32.597
Apr 19	0300	44°39.1'	127°55.0'	9.2	32.598
Apr 19	0630	44°19.0'	127°28.4'	9.3	32.635
Apr 19	0935	44°18.8'	127°00.2'	9.5	32.624
Apr 19	1320	44°19.0'	126°32.4'	9.8	32.608
Apr 19	1615	44°19.1'	126°05.0'	9.4	32.586
Apr 19	1830	44°19.0'	125°50.9'	9.4	32.632
Apr 19	2100	44°19.0'	125°37.0'	9.1	---
Apr 19	2300	44°19.1'	125°22.9'	9.1	32.482
Apr 20	0325	44°19.0'	125°09.8'	9.5	32.504
Apr 20	0530	44°19.0'	124°54.5'	9.2	32.469
Apr 20	0905	44°19.1'	124°41.2'	9.3	32.479
Apr 20	1215	43°59.0'	124°47.0'	9.3	32.268
Apr 20	1328	43°59.0'	124°56.7'	8.8	32.498
Apr 20	1535	43°59.0'	125°10.9'	8.8	32.547
Apr 20	1800	43°59.0'	125°24.5'	8.9	32.622
Apr 20	2045	43°58.8'	125°38.3'	8.9	32.595
Apr 20	2305	43°58.7'	126°52.0'	9.1	32.631
Apr 21	0130	43°58.8'	126°05.8'	9.0	32.639
Apr 21	0500	43°59.0'	126°33.5'	8.9	32.637
Apr 21	0820	43°39.0'	126°37.0'	9.5	32.626
Apr 21	1120	43°39.0'	126°08.6'	9.2	32.626
Apr 21	1417	43°39.0'	126°41.6'	9.7	32.150
Y7106B					
June 12	1430	45°36.2'	122°46.5'	14.9	---
June 12	1600	45°39.2'	122°45.3'	13.5	---
June 12	1945	46°11.2'	123°10.5'	13.6	---
June 12	2353	46°15.1'	124°59.0'	13.4	---
June 13	0500	46°00.7'	124°05.9'	14.4	20.222
June 13	0600	45°50.2'	124°02.5'	14.7	19.636
June 13	0700	45°39.4'	124°02.5'	13.7	26.377
June 13	0800	45°28.7'	124°02.6'	13.7	27.445
June 13	0900	45°18.1'	124°02.8'	13.5	27.554
June 13	1000	45°07.4'	124°03.9'	13.4	28.820
June 13	1100	44°56.5'	124°05.6'	13.0	29.170
June 13	1200	44°46.1'	124°07.6'	13.0	29.517
June 13	1330	44°39.0'	124°06.2'	12.9	---
June 13	1900	44°39.4'	124°10.6'	12.4	---
June 13	1930	44°39.5'	124°13.5'	12.5	---
June 13	2021	44°39.1'	124°17.9'	12.3	---
June 14	0330	44°39.0'	124°24.5'	13.1	---
June 14	0645	44°38.8'	124°38.6'	13.3	---
June 14	1103	44°39.5'	124°52.5'	13.6	33.776
June 14	1600	44°39.7'	125°09.4'	13.2	---
June 14	1900	44°39.1'	125°21.1'	14.6	27.447
June 14	2221	44°39.0'	125°35.0'	12.7	---
June 15	0115	44°38.5'	125°46.0'	13.3	---
June 15	0400	44°39.0'	126°03.0'	12.6	---
June 15	0705	44°39.5'	126°17.0'	12.5	---
June 15	1010	44°38.9'	126°31.0'	12.6	---
June 15	1300	44°45.0'	126°27.0'	12.3	---
June 15	1400	44°54.0'	126°19.5'	11.9	---

Date 1971	Time GMT	Latitude	Longitude	Temp °C	Sal ‰
June 15	1500	44°53.0'	126°03.3'	12.1	---
June 15	1600	44°52.7'	125°58.0'	13.3	---
June 15	1700	44°52.3'	125°32.6'	13.4	---
June 15	1800	44°52.0'	125°17.6'	13.9	---
June 15	1900	44°52.4'	125°03.5'	13.8	---
June 15	2000	44°52.5'	124°47.8'	13.6	---
June 15	2100	44°53.9'	124°31.8'	13.5	---
June 15	2200	44°55.0'	124°22.5'	13.3	---
June 16	0050	44°52.7'	124°15.3'	13.0	---
June 16	0320	44°50.1'	124°10.2'	13.5	---
June 16	0600	44°48.5'	124°05.7'	12.9	---
C7106E					
June 18	1320	44°39.1'	127°27.0'	12.8	32.152
June 18	1530	44°39.1'	127°13.0'	13.1	32.020
June 18	1710	44°39.1'	126°59.0'	13.1	32.010
June 18	1820	44°39.1'	126°45.0'	13.3	31.687
June 18	1935	44°39.1'	126°31.0'	13.4	31.777
June 18	2050	44°39.1'	126°17.0'	13.7	31.722
June 18	2200	44°39.1'	126°03.1'	13.5	31.759
June 18	2310	44°39.1'	125°49.0'	13.7	31.593
June 19	0025	44°39.1'	125°35.0'	13.5	31.678
June 19	0140	44°39.1'	125°21.0'	13.8	30.575
June 19	0255	44°39.1'	125°06.9'	13.5	31.095
June 19	0410	44°39.1'	124°52.8'	14.0	29.024
June 19	0525	44°39.1'	124°38.7'	13.2	30.864
June 19	0630	44°39.1'	124°24.7'	13.1	30.880
June 19	0740	44°39.1'	124°10.6'	12.4	30.899
Y7107C					
Aug 2	0220	45°00.0'	124°48.3'	17.9	---
Aug 2	0430	45°07.6'	124°37.8'	17.9	---
Aug 2	0615	44°59.8'	124°38.0'	17.9	---
Aug 3	0815	44°52.5'	124°37.9'	16.7	---
Aug 3	1035	45°00.0'	124°27.1'	18.9	---
Aug 3	1200	45°00.0'	124°13.1'	18.4	---
C7109D					
Sept 10	1925	44°33.3'	124°12.7'	16.2	31.941
Sept 10	2040	44°30.7'	124°18.7'	15.7	31.971
Sept 10	2140	44°28.4'	124°25.2'	16.1	31.868
Sept 10	2240	44°25.5'	124°30.7'	16.4	31.605
Sept 10	2335	44°22.9'	124°36.7'	16.4	31.596
Sept 11	0030	44°29.4'	124°42.7'	16.6	31.520
Sept 11	0130	44°17.7'	124°48.6'	16.1	31.458
Sept 11	0230	44°15.1'	124°54.5'	16.8	31.327
Sept 11	0330	44°12.6'	125°00.7'	16.8	31.212
Sept 11	0430	44°09.9'	125°06.5	16.8	31.340
Sept 11	0520	44°07.4'	125°12.5'	16.9	31.383
Sept 11	0610	44°05.5'	125°18.8'	17.0	31.211
Sept 11	0655	44°02.5'	125°24.8	17.6	31.114
Sept 11	0800	44°00.0'	125°31.3'	17.5	31.191
Sept 11	1015	43°56.2'	125°35.1'	17.5	31.164
Sept 11	1050	43°52.0'	125°39.8'	17.6	31.095
Sept 11	1125	43°48.2'	125°43.4'	17.5	31.099
Sept 11	1150	43°44.0'	125°48.0'	17.7	31.193
Sept 11	1245	43°40.0'	125°52.0'	17.8	31.433
Sept 11	1325	43°36.0'	125°56.0'	17.8	31.464
Sept 11	1405	43°32.1'	126°00.1'	17.6	31.242
Sept 11	1445	43°28.2'	126°05.0'	17.8	31.271
Sept 11	1520	43°22.9'	126°08.6'	18.0	31.254
Sept 11	1610	43°20.0'	126°12.0'	18.0	31.241
Sept 11	1738	43°20.0'	126°05.0'	18.2	31.194
Sept 11	1806	43°20.0'	125°58.2'	18.2	31.141
Sept 11	1846	43°20.0'	125°51.7'	18.3	31.054
Sept 11	1930	43°20.0'	125°58.6'	18.4	---
Sept 11	2130	43°20.0'	125°44.8'	18.0	---
Sept 11	2250	43°20.0'	125°38.4'	17.6	31.484
Sept 11	2330	43°20.0'	125°31.0'	17.8	---
Sept 12	0000	43°20.0'	125°24.0'	17.3	31.377
Sept 12	0030	43°20.0'	125°16.4'	17.3	---
Sept 12	0310	43°19.8'	125°09.7'	17.7	31.215
Sept 12	0340	43°20.0'	125°02.9'	17.7	---
Sept 12	0555	43°20.0'	124°56.3'	17.9	31.137
Sept 12	0705	43°20.0'	124°50.0'	16.9	---
Sept 12	0924	43°20.0'	124°42.8'	16.4	31.550
Sept 12	1000	43°20.0'	124°36.5'	16.2	---
Sept 12	1115	43°15.0'	124°37.7'	14.9	31.826
Sept 12	1140	43°10.0'	124°38.7'	14.4	31.894
Sept 12	1215	43°05.0'	124°39.7'	14.5	31.913
Sept 12	1250	43°00.0'	124°41.1'	14.1	---
Sept 12	1415	43°00.0'	124°48.0'	15.0	31.801
Sept 14	1700	43°24.2'	124°22.1'	9.1	33.162
Sept 14	1730	43°28.0'	124°21.8'	9.4	33.090
Sept 14	1800	43°31.7'	124°21.5'	9.4	32.932
Sept 14	1830	43°35.5'	124°21.0'	9.3	32.678
Sept 14	1900	43°39.7'	124°20.1'	9.9	32.625
Sept 14	1930	43°43.4'	124°19.5'	10.4	32.492
Sept 14	2030	43°51.0'	124°18.4'	11.3	32.433
Sept 14	2100	43°55.0'	124°17.7'	11.7	32.482
Sept 14	2130	43°59.0'	124°17.1'	11.1	32.557
Sept 14	2200	44°02.5'	124°16.5'	10.9	32.579
Sept 14	2230	44°05.9'	124°16.0'	10.4	32.704
Sept 14	2300	44°09.0'	124°15.7'	10.8	32.656
Sept 14	2330	44°11.5'	124°15.4'	10.0	32.719
Sept 15	0000	44°14.4'	124°14.5'	9.9	32.874
Sept 15	0030	44°17.2'	124°13.7'	10.1	---
Sept 15	0100	44°20.0'	124°12.9'	10.6	32.814
Sept 15	0130	44°22.3'	124°11.7'	10.4	32.925
Sept 15	0200	44°24.7'	124°11.1'	9.9	32.978
Sept 15	0230	44°27.6'	124°10.2'	10.2	33.009
Sept 15	0300	44°30.3'	124°09.5'	10.0	33.084
Sept 15	0330	44°34.0'	124°08.5'	9.4	33.184
C7110A					
Oct 3	0400	44°46.0'	124°16.5'	14.6	---
Oct 3	0825	44°46.0'	124°16.5'	14.4	---
Oct 3	1230	44°46.0'	124°16.5'	13.4	---
Oct 3	1705	44°46.0'	124°16.5'	14.1	---
Oct 3	2135	44°46.0'	124°16.5'	14.9	---
Oct 4	1925	44°39.1'	124°07.8'	12.4	---
Oct 4	2015	44°39.1'	124°10.6'	15.2	---
Oct 4	2125	44°39.1'	124°24.6'	15.7	---
Oct 4	2310	44°39.1'	124°38.6'	16.2	---
Oct 5	0115	44°39.1'	124°52.6'	15.6	---
Oct 5	0230	44°39.1'	125°06.5'	15.4	---
Oct 5	0505	44°39.1'	125°20.3'	15.4	---
Oct 5	0715	44°39.1'	125°34.6'	14.5	---
Oct 5	0820	44°39.1'	125°48.6'	15.3	---
Oct 5	1030	44°39.1'	126°02.6'	15.2	---
Oct 5	1145	44°39.1'	126°16.6'	15.2	---
Oct 5	1420	44°39.1'	126°39.0'	15.7	---
Oct 5	1525	44°39.1'	126°44.8'	15.9	---
Oct 5	1715	44°39.1'	126°58.9'	15.9	---
Oct 5	1850	44°39.1'	127°12.7'	16.1	---
Oct 5	2110	44°39.1'	127°26.6'	17.1	---
Oct 5	2225	44°39.1'	127°40.6'	16.7	---
C7112C					
Dec 7	2030	44°39.5'	124°10.7'	9.5	31.562
Dec 7	2300	44°39.6'	124°24.2'	8.0	---
Dec 8	0138	44°40.0'	124°38.6'	8.4	---
Dec 8	0529	44°41.3'	124°53.5'	10.0	---
Dec 8	2028	44°39.1'	125°06.4'	8.5	---

TABLE 6: Erratum for 1970 Hydrographic Data

Cruise	Station	Date	Time	Page	Correction
Y7005-A	NH-35	6 May 70	1023	62	omit 498m alkalinity
Y7005-A	DB-15	8 May 70	1414	65	omit 100m PO_4
Y7005-A	DH-8	9 May 70	1329	67	omit all alkalinity insert following NO_3 Om 3.9 5 3.7 10 3.6 15 3.5 20 5.0
Y7006-A	NH2-7	21 Jun 70	0956		7m pH should be 7.903
Y7006-A	DB2-7	22 Jun 70	1333		salinities should be 0m 33.02‰ 4 33.04 7 33.06 10 33.02 15 33.02 25 33.21 40 33.73 60 33.98
Y7006-A	NH3-20	29 Jun 70	0146		temperatures should be 40m 7.89 60m 7.44 PO_4, Alkalinity, and NO_3 should be switched betwee these two depths.
Y7006-A	NH3-105	29 Jun 70	2025		NO_3 $Si0_2$ 599m 43.5 104 798m 44.2 126
Y7006-A	NH3-105	29 Jun 70	2319		correct values are listed NO_3 $Si0_2$ 800m 44.4 105 1000 44.6 132 1200 44.6 145 1400 44.2 156

TABLE 6 (Continued)

	NO_3	SiO_2
1600	43.5	169
1800	43.3	183
2000	41.9	170
2199	41.1	176
2400	40.6	177
2600	40.3	176

Y7006-A BC1-3 20 Jun 70 1636

correct pH values are

0m	7.920
4	7.926
7	7.928
10	7.866
15	7.805

Y7006-A NH2-20 21 Jun 70 0505

correct values are listed

	PO_4	pH	Alk	NO_3	SiO_2
0m	.46	8.286	2.21	0.7	6
4	.54	8.256	2.17	2.5	22
7	.54	8.271	2.25	2.5	8
10	.60			4.3	10
15	1.07	8.112	2.28	9.6	17
25	1.54	7.943	2.26	12.1	23
40	1.71	7.912		19.5	27
60	1.90	7.860	2.25	24.2	32
80	2.24	7.776	2.23	29.5	40
100	2.23	7.771	2.30	28.8	39

Y7007-B 1-25 5 Aug 70 1538

correct values are listed

	NO_3	SiO_2
199m	33.7	70
298	42.1	85
397	44.2	88
597	43.7	110
795	32.6	95
993	43.7	119

Y7007-B 1-26 7 Aug 70 2105

correct values are listed

	NO_3	SiO_2
300m	30.9	63
400	36.7	80
500	29.1	88
700	33.9	73

TABLE 6 (Continued)

				correct values are listed		
					NO_3	SiO_2
Y7007-B	1-27	8 Aug 70	1032	300m	39.4	89
				399	25.7	73
				498	33.0	92
				698	31.1	112
				997	29.8	125

1970 SiO_2 Data Corrections

The data listed below under numbers 1, 2 and 3 should be corrected according to the following equation:

$$C_{ctd} = 0.975 \left[0.675 + 0.916(C_{gvn}) + 0.0026(C_{gvn})^2 \right]$$

where C_{ctd} = corrected SiO_2 concentration

C_{gvn} = SiO_2 concentration given in 1970 Hydro Data Report (Wyatt et al., 19

1. Cruise C7002-D--all samples for stations SP75, SP77, SP81, SP89, PL90, LG92, LG93, LG95, LG96, LG97, LG98, GG99, GG101, GG104, GG108, GG110, GG112, GG113, GG114, GG115, GG122, GG123, GG124 and GG125.

2. Cruise Y7006-A--for station NH3-105, samples taken from the following depths: 0-498 m, 998 m (first cast) and 1197 m (first cast).

3. Cruise Y7007-B (YALOC-70)--as listed:

Station	Depth	Station	Depth
1-01	All	1-23	0-396 m
1-2A	All	1-25	0-199 m
1-3A	0-249 m	1-26	0-300 m
1-04	0-251 m	1-27	0-300 m
1-05	0-252 m	1-28	0-999 m
1-06	0-299 m	2-29	0-396 m
1-07	0-397 m	2-31	0-400 m
1-09	0-400 m	2-33	0-2495 m
1-10	0-199 m	2-35	All
1-11	0-398 m	2-38	All
1-13	0-597 m	2-40	0-398 m
1-15	0-398 m	2-41	0-398 m
1-17	0-599 m	2-42	All
1-19	All	2-43	All

4. All 1970 SiO_2 data other than that listed under 1, 2 and 3 should be multiplied by the factor, 0.975. This applies also to SiO_2 corrections given elsewhere in this errata section.

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13. ABSTRACT

Salinity, temperature, oxygen, phosphate, and nitrate observations were taken by Oregon State University during 17 hydrographic cruises in the Northeastern Pacific.

Alkalinity, pH and silicate were taken on special occasions.

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