# DEPARTMENT of OCEANOGRAPHY

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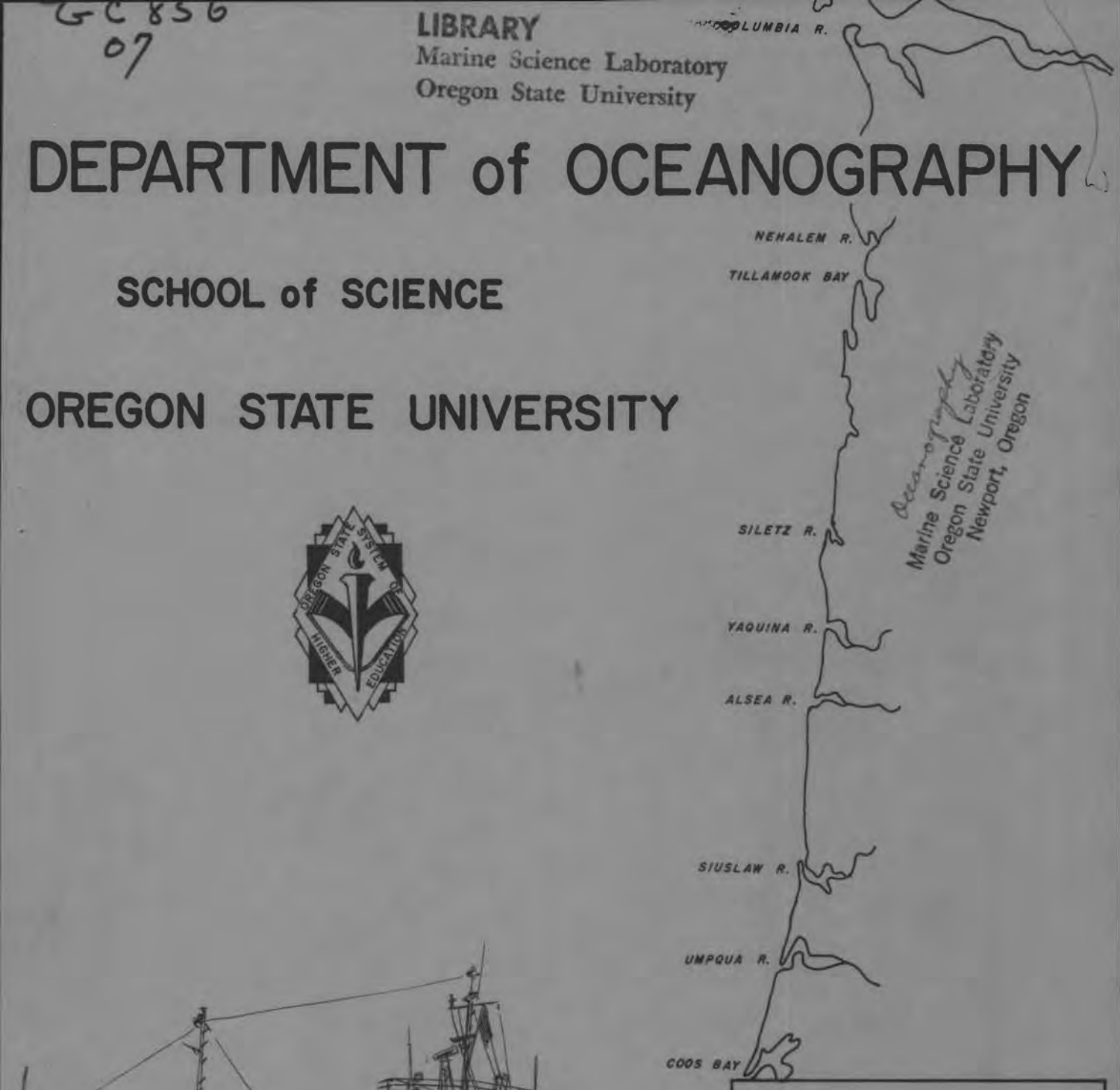





**HYDROGRAPHIC DATA FROM OREGON WATERS**

**1962 through 1964**

by

**Bruce Wyatt**

and

**William E. Gilbert**



**Data Report No. 24** **Reference 67-1**

**March 1967**

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Corvallis, Oregon 97331

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Contract Nonr 1286(10)
Project NR 083-102

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Wayne V. Burt
Chairman

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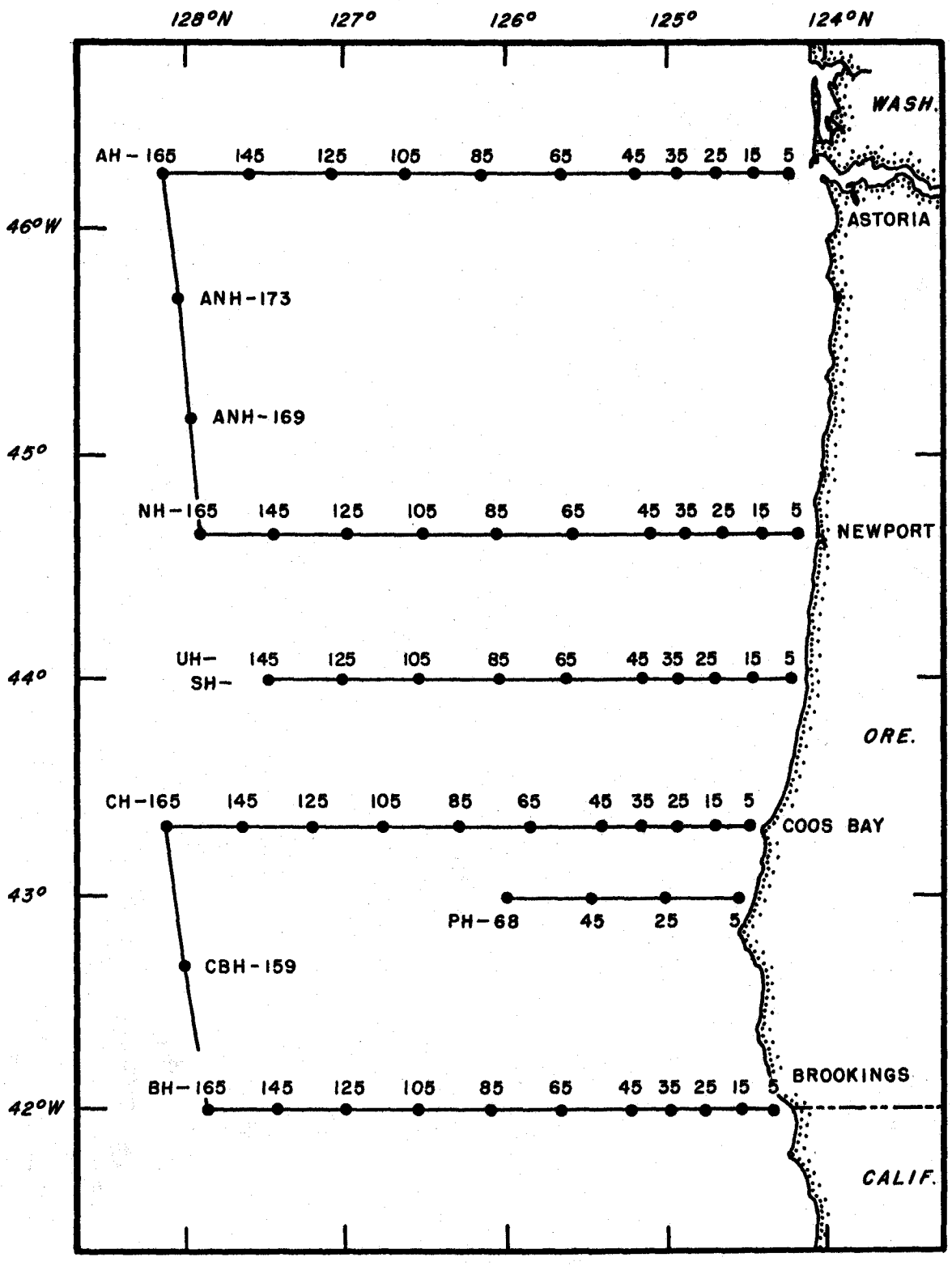


Locations of stations occupied by Oregon State University, 1962-1964.

## INTRODUCTION

This is the fifth report of data collected during a study designed to determine the currents and water masses along the Oregon coast. The first four reports cover the period from July 1958 to December 1961 (Wyatt and Callaway, 1961; Wyatt and Kujala, 1961; Wyatt and Kujala, 1962; Wyatt and Kujala, 1963). The present report includes hydrographic data collected off the Oregon coast by the Department of Oceanography, Oregon State University, from January 1962 through December 1964.

## DATA COLLECTION AND PROCESSING

Data were collected by Oregon State University personnel aboard the vessels R/V ACONA and R/V YAQUINA. The observations were planned to survey conditions off the Oregon coast but particularly to monitor temperature and salinity distributions along a latitudinal tract at 44°39'N. Each station is identified by a two-letter, two-number code that identifies the station latitude and distance from shore. Latitude is represented by a letter, e.g. N (for Newport) at 44°39.1'N, and similar choices for the other parallels (see table below). Letter H indicates a hydrographic station. Numerals give distance from shore in nautical miles. Thus, NH 45 is a hydrographic station on the "Newport line" (44°39.1'N) 45 miles off the coast.

| Standard Lines | | | Special Lines | | |
|---|---|---|---|---|---|
| Letters | Coastal City | Latitude | Letters | Coastal City | Latitude |
| AH | Astoria | 46°14.4'N | YH | Yachats | 44°19.2'N |
| NH | Newport | 44°39.1'N | SH | Siuslaw | 43°59.2'N |
| CH | Coos Bay | 43°20.1'N | UH | Umpqua | 43°47.0'N |
| BH | Brookings | 42°20.0'N | PH | Port Orford | 43°00.0'N |

### Salinity

Salinity determinations were made mostly in the shore laboratory with an inductive salinometer model Mk. II manufactured in Australia by Industria Manufacturing Engineers Pty. Ltd. The method used for the determinations was described by Brown and Hamon (1961). Substandard water was prepared from sea water that had been collected 100 miles off Oregon and stored for three months.

The inductive salinometer is subject to some drift in conductivity because of changes in room temperature during analysis of a series of

samples from a station. However, the approximate average accuracy of determinations was believed to be 0.003‰ as reported by Brown and Hamon (1961). On cruise 6411 salinity determinations made at sea had a precision error of ± 0.03‰. The added error resulted when unregulated ship's power was accidentally used to energize the inductive salinometer.

## Temperature

Thermometer calibrations were done by our personnel using Scripps Institution of Oceanography standard thermometers and tank. The accuracy of temperature readings is believed to be ± 0.02° C for reversing thermometers and ± 0.1° C for bucket thermometers. In all cases two protected reversing thermometers were mounted on each Nansen bottle. One unprotected reversing thermometer was mounted on each bottle.

## Depth

Depth determinations were made by the "depth-difference" method described in Hydrographic Office Pub. 607, 1955. At least once each year three to six calibration casts were made to monitor the pressure coefficients (Q) for unprotected thermometers. Depth estimates have an approximate accuracy of 1.5 percent at 750 m depth.

## Oxygen

The modified Winkler method of oxygen analysis as described by Strickland and Parsons (1955) was employed. Precision was believed to be at ± 0.03 ml/L of dissolved oxygen.

## Computations

All hydrographic data were processed with the aid of the CDC 3300 computer. Auxillary temperature corrections and index corrections obtained from laboratory calibrations were completed with a computer program. Interpolation of property values to standard depths was accomplished 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 anomalies, $\sigma_t$ and $\Delta D$, were all computed by using interpolated properties.

Graphic plots were made of temperature against depth, temperature against salinity, and thermosteric anomaly against depth. Pre-trip and post-trip detection was made possible with this type of presentation, and data from such casts are not shown in the table.

## ACKNOWLEDGMENTS

Robert Still, Norman Kujala and Dennis Barstow collected much of the data, made the temperature corrections and depth determinations, and plotted temperature and salinity values. George Crandell completed most of the data processing for cruises 6207 and 6208. Sue Borden made most of the computer calculations. Kilho Park evaluated the chemical methods and aided in supervision of the determinations.

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TABLE I

Cruise Dates, Stations, Observations, and Personnel for Hydrographic Cruises from January 1962 to December 1964.

| CRUISE | DATES | STATIONS | OBSERVATIONS* | PERSONNEL |
|---|---|---|---|---|
| 6201-A[a] | 13-16 Jan | NH[b]-5 to 145<br>AH-5 to 165<br>CH-5 to 145 | CB[c], MWT[d] | Norman Kujala[e], Lyle Hubbard, Carl Lehman, Neil Maloney, Walter DeBen, William Volmer |
| 6202-A | 3-5 Feb | NH-5 to 165 | CB | Bruce Wyatt, Carl Lehman, Malcolm Oliphant, Warren Denner, Roger Woodruff, Walter DeBen |
| 6204-A | 27 Mar-<br>6 Apr | NH-5 to 165<br>AH-5 to 165 | CB, MWT | Norman Kujala, Herbert Curl, Lyle Hubbard, Malcolm Oliphant, Carl Lehman, Walter DeBen, Timothy Noland |
| 6205-A | 30 Apr-<br>3 May | NH-5 to 165<br>NH-15 to 165 | CB, phosphate<br>MWT | Norman Kujala, Herbert Curl, Carl Lehman, Walter DeBen, Malcolm Oliphant, Jackson Blanton, Timothy Noland, Gerald Wiese, James Rich |
| 6206-A | 4-8 June | NH-5 to 165<br>AH-5 to 165 | CB, MWT,<br>phosphate | Norman Kujala, Herbert Curl, Lawrence Small, Lyle Hubbard, Malcolm Oliphant, James Stanley, Walter DeBen, Timothy Noland |
| | 11-17 June | CH-5 to 165<br>BH-5 to 165 | CB, MWT,<br>phosphate | Norman Kujala, Malcolm Oliphant, Walter DeBen, Michael Laurs, Jackson Blanton, Ward Renshaw, Neil Maloney |
| 6207-A | 23-27 July | AH-5 to 165<br>NH-5 to 165 | CB, MWT,<br>phosphate | Norman Kujala, Lawrence Small, Harry Freund, Malcolm Oliphant, James Stanley, David Bushnell, Michael Healy, Timothy Noland, Roy Yamamoto |
| 6208-A | 30 July-<br>4 Aug | CH-5 to 165<br>BH-5 to 165 | CB, MWT,<br>phosphate | Norman Kujala, Herbert Curl, Malcolm Oliphant, James Stanley, Michael Laurs, Robert Lane, Jackson Blanton, Roy Yamamoto |
| 6209-B | 4-7 Sept | NH-5 to 165 | CB, MWT,<br>anchor dredge | Norman Kujala, Andrew Carey, Richard Morita, Malcolm Oliphant, Paul Maughan, Roy Yamamoto, Bruce Johnson |
| 6210-B | 15-18 Oct | NH-5 to 105<br>AH-5 to 105 | CB, MWT,<br>phosphate | Norman Kujala, Lyle Hubbard, Malcolm Oliphant, Donald Day, Timothy Noland, Sargon Tont |
| | 22-26 Oct | BH-5 to 165<br>CH-35 | CB, MWT,<br>phosphate | Norman Kujala, Donald Day, Michael Laurs, Curtis Collins, Victor Neal, Robert Still |
| 6212-D | 16-20 Dec | NH-5 to 165<br>AH-5 to 165 | CB, MWT,<br>phosphate | Norman Kujala, Lyle Hubbard, Malcolm Oliphant, Jackson Blanton, Erwin Runge, Darvel Lloyd |
| | 27-30 Dec | CH-5 to 125 | CB, MWT,<br>phosphate | Norman Kujala, Michael Laurs, Ronald Verity, Timothy Noland, Arthur Albin, Dennis Barstow, Malcolm Oliphant |

| | | | | |
|---|---|---|---|---|
| 6302-C | 21-26 Feb | NH-5 to 145<br>AH-5 to 145 | CB, MWT | Norman Kujala, James Stanley, Malcolm Oliphant, Ronald Verity, Warren Denner, James Winslow, Adrian Matson |
| | 1-7 Mar | BH-5 to 165<br>CH-5 to 165 | CB, MWT | Norman Kujala, Robert Still, Malcolm Oliphant, Michael Laurs, Ronald Verity, James Winslow, Curtis Collins |
| 6305-A | 13-21 May | BH-5 to 145<br>CH-5 to 145 | MWT, CB, one-meter net tow | Norman Kujala, James Stanley, Malcolm Oliphant, Michael Laurs, Ronald Verity, Timothy Noland, William Watkins, James Mason |
| | 24-27 May | NH-5 to 165 | MWT, CB, one-meter net tow | Bruce Wyatt, Lyle Hubbard, Robert Still, George Crandell, Ronald Verity, Jackson Blanton, Lon Bentsen, John Frietag |
| 6307-C | 16-19 July | NH-5 to 165<br>UH-25 to 85 | MWT, CB, one-meter net tow | Norman Kujala, Kilho Park, Robert Still, Lon Bentsen, Roy Yamamoto, Ronald Verity, William North, David Minard, Raj Natarajah, Curtis Collins |
| | 19-27 July | CH-5 to 165<br>BH-5 to 165 | MWT, CB, one-meter net tow, phosphate | Norman Kujala, Michael Laurs, Dennis Barstow, Ronald Verity, Lon Bentsen, Roy Yamamoto, Raj Natarajah, Adrian Matson, Roger Haight |
| 6308-B | 6-9 Aug | NH-23 | Drogue tracking and anchor station | Robert Still, June Pattullo, Elizabeth Strong, Robert Smith, Timothy Noland, Paul Maughan, David Minard |
| 6309-B | 10-16 Sept | CH-5 to 165<br>BH-5 to 165 | MWT, CB, one-meter net tow, chlorophyll analysis, phosphate | Robert Still, Dennis Barstow, Hugh Dobson, Michael Laurs, Roy Yamamoto, William North, Adrian Matson, Merritt Stevenson |
| | 18-23 Sept | NH-5 to 165<br>AH-5 to 165 | MWT, CB, one-meter net tow, chlorophyll analysis, phosphate | Robert Still, Dennis Barstow, Ronald Verity, Hugh Dobson, Victor Neal, Roy Yamamoto, Rodney Eagle, David Jennings, Iver Duedall, Kimball Crocker |
| 6311-B | 29 Nov-2 Dec | NH-45 to 145 | MWT, CB, one-meter net tow, chlorophyll analysis, phosphate | Bruce Wyatt, Robert Still, Lyle Hubbard, Norman Cutshall, Victor Neal, Douglas Manske, Edward Thornton, Hugh Dobson, Donald Conners |
| 6312-B | 10-14 Dec | NH-25 to 65 | MWT, VMT[f] | Lyle Hubbard, Ward Renshaw, William North, Arthur Albin, Michael McCormick, Merritt Stevenson, Herman Wyandt |

*Drift bottle releases and bathythermograph casts were made at all stations.

[a]Cruise number gives date of occurrence. First two figures are the year; second two, the month. The letter suffix indicates the order of the cruise within a month.

[b]Station identification code is explained in the text.

[c]CB stands for Clarke-Bumpus oblique tow; depth was usually 200 meters.

[d]MWT stands for Isaacs-Kidd midwater trawl; tows were oblique and depth was usually 200 meters.

[e]First person listed was party chief.

[f]VMT stands for vertical meter-net; depth was 200 meters.

| CRUISE | DATES | STATIONS | OBSERVATIONS | PERSONNEL |
|---|---|---|---|---|
| 6402-A | 2-6 Feb | NH-5 to 165<br>CH-5 to 165 | MWT, VMT | Robert Still, Lyle Hubbard, Dennis Barstow, Hugh Dobson, Merton Ingham, Arthur Albin, Lawrence Swanson, Kimball Crocker |
| 6404-B | 9-16 Apr | CH-5 to 165<br>BH-5 to 165 | MWT, VMT, CB, chlorophyll analysis | Robert Still, Lyle Hubbard, George Crandell, Hugh Dobson, Merton Ingham, Douglas Manske, Niels Skov, Donald Conners |
| | 17-22 Apr | NH-5 to 165<br>AH-35 to 165 | MWT, VMT, CB, chlorophyll analysis | Norman Kujala, Dennis Barstow, Hugh Dobson, John Hardy, Arthur Albin, Normal Cutshall, Edward Thornton, David Jennings, Hans Nelson |
| 6405-D | 29 May-<br>2 June | NH-25 to 45 | Drogue tracking | Bruce Wyatt, June Pattullo, Elizabeth Strong, Timothy Noland, Leverett Ropes, Merritt Stevenson, Robert Swanson |
| 6407-C | 11-16 July | AH-5 to 165<br>NH-5 to 165 | MWT, VMT, chlorophyll analysis | Robert Still, Timothy Noland, Patrick O'Shea, Merritt Stevenson, Kimball Crocker, Iver Duedall, Hugh Dobson, Donald Connors, George Kennedy, John Hardy |
| | 18-23 July | CH-5 to 165<br>UH-25 to 165<br>YH-35 to 145 | MWT, VMT, chlorophyll analysis | Dennis Barstow, Carey Haag, Gale Griswold, George Morrison, Hans Nelson, Hugh Dobson, David Minard, Vernon Johnson |
| 6411-A | 6-9 Nov | NH-5 to 145<br>CH-5 to 145 | MWT, VMT | Bruce Wyatt, Carey Haag, Steven Slavic, Iver Duedall, Patrick O'Shea, Hugh Dobson, John Hardy, Lawrence Bauer, Kenneth Russell, Lawrence Frederick |
| | 12-15 Nov | AH-5 to 145 | MWT, VMT | Robert Still, Dennis Barstow, Carey Haag, William Renfro, Hugh Dobson, John Hardy, Patrick O'Shea, Lawrence Bauer, Daniel Panshin, Dana Kester, William Allen |
| 6412-A | 16-18 Dec | NH-5 to 45 | Drogue tracking | Bruce Wyatt, June Pattullo, Elizabeth Strong, Merritt Stevenson, John Cronin, Lawrence Bauer, Patrick O'Shea, Timothy Noland, Hugh Dobson, John Long |

TABLE II. Hydrographic Data for the Period January 1962 through December 1964.

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 5 44 39.1 N 124 10.6 W DATE 8 JAN 62 2125 GCT WIRE 1 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 29 SWELL DIRECTION 28 H 3 T 7 CLOUD 0 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.52 | 32.169 | | .80 | 0 | 9.52 | 32.17 | | .81 | 24.85 | 311.5 | 0 |
| 10 | 9.55 | 32.461 | | .80 | 10 | 9.55 | 32.46 | | .81 | 25.07 | 291.2 | .030 |
| 20 | 9.55 | 32.486 | | .80 | 20 | 9.55 | 32.49 | | .81 | 25.09 | 288.8 | .059 |
| 30 | 9.69 | 32.523 | | .77 | 30 | 9.69 | 32.53 | | .78 | 25.10 | 288.4 | .088 |
| 50 | 9.54 | 32.577 | | .80 | 50 | 9.54 | 32.58 | | .81 | 25.17 | 282.4 | .145 |
| NH 15 44 39.1 N 124 24.7 W DATE 8 JAN 62 2315 GCT WIRE 2 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 1 VEL 3 KTS BAR 30 SWELL DIRECTION 28 H 3 T 7 CLOUD 0 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.55 | 32.550 | | .82 | 0 | 9.55 | 32.55 | | .83 | 25.14 | 283.7 | 0 |
| 10 | 9.40 | 32.548 | | .82 | 10 | 9.40 | 32.55 | | .83 | 25.17 | 281.7 | .028 |
| 25 | 9.56 | 32.563 | | .91 | 20 | 9.49 | 32.55 | | .88 | 25.15 | 283.1 | .057 |
| 35 | 9.54 | 32.607 | | .89 | 30 | 9.54 | 32.58 | | .90 | 25.17 | 282.0 | .085 |
| 55 | 9.52 | 32.738 | | 1.02 | 50 | 9.53 | 32.70 | | .98 | 25.26 | 273.2 | .140 |
| 75 | 9.47 | 32.874 | | 1.00 | 75 | 9.47 | 32.88 | | 1.01 | 25.41 | 259.7 | .207 |
| NH 25 44 39.1 N 124 38.7 W DATE 9 JAN 62 0250 GCT WIRE 4 DRY 46.0 WET 45.5 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 3 KTS BAR 30 SWELL DIRECTION 27 H 1 T 6 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.66 | 32.482 | | .58 | 0 | 9.66 | 32.49 | | .59 | 25.07 | 290.5 | 0 |
| 10 | 9.66 | 32.482 | | .56 | 10 | 9.66 | 32.49 | | .57 | 25.07 | 290.6 | .029 |
| 30 | 9.62 | 32.498 | | .59 | 20 | 9.66 | 32.49 | | .57 | 25.08 | 290.4 | .058 |
| 50 | 9.36 | 33.058 | | 1.00 | 30 | 9.63 | 32.50 | | .60 | 25.09 | 289.1 | .087 |
| 105 | 8.42 | 33.767 | | 1.62 | 50 | 9.36 | 33.06 | | 1.01 | 25.57 | 243.9 | .140 |
| 155 | 7.89 | 33.906 | | 1.74 | 75 | 8.93 | 33.49 | | 1.36 | 25.98 | 205.9 | .197 |
| 204 | 7.59 | 33.960 | | 1.88 | 100 | 8.50 | 33.74 | | 1.59 | 26.24 | 181.6 | .245 |
| | | | | | 150 | 7.93 | 33.90 | | 1.74 | 26.45 | 161.9 | .331 |
| | | | | | 200 | 7.61 | 33.96 | | 1.87 | 26.54 | 154.1 | .410 |
| NH 35 44 39.1 N 124 52.8 W DATE 9 JAN 62 0527 GCT WIRE 9 DRY 49.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 2 KTS BAR 30 SWELL DIRECTION 27 H 2 T 6 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.40 | 32.432 | | .60 | 0 | 9.40 | 32.44 | | .60 | 25.08 | 290.2 | 0 |
| 10 | 9.40 | 32.429 | | .60 | 10 | 9.40 | 32.43 | | .60 | 25.07 | 290.6 | .029 |
| 29 | 9.34 | 32.422 | | .59 | 20 | 9.37 | 32.43 | | .59 | 25.07 | 290.8 | .058 |
| 48 | 9.40 | 32.739 | | .86 | 30 | 9.34 | 32.43 | | .60 | 25.08 | 289.9 | .087 |
| 97 | 8.57 | 33.620 | | 1.52 | 50 | 9.37 | 32.78 | | .89 | 25.35 | 265.0 | .143 |
| 151 | 8.43 | 33.888 | | 1.78 | 75 | 8.99 | 33.26 | | 1.25 | 25.78 | 224.3 | .204 |
| 200 | 7.84 | 33.990 | | 1.88 | 100 | 8.56 | 33.65 | | 1.54 | 26.15 | 189.3 | .255 |
| 249 | 7.10 | 33.988 | | 1.88 | 150 | 8.43 | 33.89 | | 1.78 | 26.36 | 170.4 | .345 |
| | | | | | 200 | 7.84 | 34.00 | | 1.89 | 26.53 | 154.8 | .427 |
| | | | | | 250 | 7.08 | 33.99 | | 1.88 | 26.64 | 145.5 | .502 |
| NH 45 44 39.1 N 125 6.9 W DATE 9 JAN 62 0732 GCT WIRE 15 DRY 48.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 30 SWELL DIRECTION 27 H 2 T 6 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.06 | 32.490 | | .50 | 0 | 10.06 | 32.50 | | .51 | 25.01 | 296.2 | 0 |
| 10 | 10.06 | 32.440 | | .52 | 10 | 10.06 | 32.44 | | .52 | 24.98 | 300.0 | .030 |
| 30 | 9.52 | 32.480 | | .66 | 20 | 9.82 | 32.46 | | .58 | 25.03 | 295.2 | .060 |
| 50 | 9.23 | 32.751 | | .89 | 30 | 9.52 | 32.48 | | .67 | 25.09 | 288.9 | .089 |
| 100 | 8.56 | 33.609 | | 1.60 | 50 | 9.23 | 32.76 | | .90 | 25.35 | 264.7 | .144 |
| 150 | 8.01 | 33.883 | | 1.92 | 75 | 8.88 | 33.20 | | 1.26 | 25.75 | 226.8 | .206 |
| 201 | 7.98 | 33.995 | | 2.00 | 100 | 8.56 | 33.61 | | 1.61 | 26.13 | 191.8 | .258 |
| 205 | 7.67 | 34.013 | | 1.96 | 150 | 8.01 | 33.89 | | 1.93 | 26.42 | 164.3 | .347 |
| 301 | 6.50 | 34.029 | | 1.96 | 200 | 7.98 | 33.99 | | 2.00 | 26.51 | 156.9 | .427 |
| 306 | 6.46 | 34.027 | | 2.20 | 250 | 7.12 | 34.02 | | 1.96 | 26.66 | 143.6 | .502 |
| 400 | 5.56 | 34.033 | | 2.40 | 300 | 6.51 | 34.03 | | 1.96 | 26.75 | 135.6 | .572 |
| 500 | 4.95 | 34.127 | | | 400 | 5.57 | 34.04 | | 2.40 | 26.87 | 124.3 | .702 |
| | | | | | 500 | 4.95 | 34.13 | | | 27.02 | 110.7 | .819 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| NH 65 44 39.1 N 125 35.0 W DATE 9 JAN 62 1225 GCT WIRE 5 DRY 47.0 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 4 VEL 4 KTS BAR 30 SWELL DIRECTION 28 H 2 T 7 CLOUD 6 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.02 | 32.455 | | .38 | 0 | 10.02 | 32.46 | | .38 | 24.99 | 298.1 | 0 |
| 10 | 10.03 | 32.410 | | .34 | 10 | 10.03 | 32.42 | | .34 | 24.96 | 301.8 | .030 |
| 30 | 10.04 | 32.412 | | .34 | 20 | 10.04 | 32.41 | | .34 | 24.95 | 302.2 | .060 |
| 50 | 10.19 | 32.420 | | .34 | 30 | 10.04 | 32.42 | | .34 | 24.96 | 302.1 | .090 |
| 100 | 8.14 | 33.434 | | 1.39 | 50 | 10.19 | 32.42 | | .34 | 24.94 | 304.2 | .151 |
| 150 | 7.52 | 33.767 | | 1.58 | 75 | 9.29 | 32.88 | | .82 | 25.44 | 256.7 | .221 |
| 202 | 6.83 | 33.901 | | | 100 | 8.14 | 33.44 | | 1.40 | 26.05 | 198.7 | .278 |
| 206 | 6.87 | 33.909 | | 1.66 | 150 | 7.53 | 33.77 | | 1.58 | 26.41 | 166.0 | .369 |
| 291 | 5.86 | 33.983 | | 1.98 | 200 | 6.84 | 33.90 | | 1.65 | 26.60 | 148.0 | .448 |
| 306 | 5.80 | 33.979 | | 1.92 | 250 | 6.50 | 33.97 | | 1.88 | 26.70 | 139.1 | .519 |
| | | | | | 300 | 5.82 | 33.98 | | 1.95 | 26.80 | 130.3 | .587 |
| NH 85 44 39.2 N 126 3.1 W DATE 9 JAN 62 1717 GCT WIRE 4 DRY 49.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 2 VEL 4 KTS BAR 32 SWELL DIRECTION 27 H 2 T 7 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.09 | 32.427 | | .52 | 0 | 10.09 | 32.43 | | .52 | 24.96 | 301.3 | 0 |
| 10 | 10.10 | 32.417 | | .52 | 10 | 10.10 | 32.42 | | .52 | 24.95 | 302.4 | .030 |
| 30 | 10.10 | 32.415 | | .52 | 20 | 10.10 | 32.42 | | .52 | 24.95 | 302.9 | .060 |
| 50 | 10.12 | 32.419 | | .52 | 30 | 10.10 | 32.42 | | .52 | 24.95 | 302.8 | .091 |
| 100 | 8.16 | 33.357 | | 1.46 | 50 | 10.13 | 32.42 | | .52 | 24.95 | 303.2 | .151 |
| 150 | 7.36 | 33.807 | | 1.74 | 75 | 9.25 | 32.84 | | .95 | 25.41 | 259.4 | .222 |
| 206 | 6.85 | 33.959 | | 1.83 | 100 | 8.16 | 33.36 | | 1.46 | 25.99 | 204.7 | .280 |
| 306 | 5.61 | 33.960 | | 2.13 | 150 | 7.36 | 33.81 | | 1.74 | 26.46 | 160.8 | .371 |
| 400 | 5.05 | 34.016 | | 2.28 | 200 | 6.90 | 33.95 | | 1.82 | 26.64 | 144.7 | .447 |
| 589 | 4.62 | 34.146 | | 2.56 | 250 | 6.29 | 33.96 | | 1.96 | 26.72 | 137.4 | .518 |
| | | | | | 300 | 5.68 | 33.95 | | 2.11 | 26.79 | 130.5 | .585 |
| | | | | | 400 | 5.06 | 34.02 | | 2.28 | 26.92 | 119.4 | .710 |
| | | | | | 500 | 4.71 | 34.09 | | 2.43 | 27.01 | 111.0 | .825 |
| | | | | | 600 | 4.62 | 34.15 | | 2.58 | 27.07 | 106.4 | .934 |
| NH 105 44 39.1 N 126 31.2 W DATE 9 JAN 62 2116 GCT WIRE 12 DRY 47.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 4 VEL 3 KTS BAR 30 SWELL DIRECTION 29 H 6 T 10 CLOUD 6 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.54 | 32.534 | | | 0 | 9.54 | 32.54 | | | 25.13 | 284.8 | 0 |
| 20 | 9.55 | 32.497 | | | 10 | 9.55 | 32.50 | | | 25.10 | 287.9 | .029 |
| 40 | 9.54 | 32.493 | | | 20 | 9.55 | 32.50 | | | 25.10 | 288.0 | .057 |
| 90 | 9.55 | 32.466 | | | 30 | 9.55 | 32.49 | | | 25.10 | 288.6 | .086 |
| 140 | 7.58 | 33.834 | | | 50 | 9.54 | 32.49 | | | 25.09 | 289.3 | .144 |
| 195 | 7.06 | | | | 75 | 9.55 | 32.47 | | | 25.08 | 290.8 | .217 |
| 198 | 7.08 | 33.950 | | | 100 | 9.18 | 32.73 | | | 25.34 | 266.5 | .286 |
| 205 | 7.06 | 0 | | | 150 | 7.36 | 33.91 | | | 26.54 | 153.3 | .391 |
| 296 | 6.18 | 34.027 | | | 200 | 7.08 | 33.95 | | | 26.61 | 147.3 | .466 |
| 306 | 6.16 | | | | 250 | 6.62 | 34.00 | | | 26.71 | 138.1 | .538 |
| 393 | 5.44 | 34.059 | | | 300 | 6.17 | 34.03 | | | 26.79 | 131.2 | .605 |
| 490 | 4.98 | 34.146 | | | 400 | 5.40 | 34.06 | | | 26.91 | 120.3 | .731 |
| 589 | 4.55 | 34.201 | | | 500 | 4.93 | 34.15 | | | 27.04 | 108.7 | .845 |
| 783 | 4.06 | 34.329 | | | 600 | 4.52 | 34.21 | | | 27.13 | 101.1 | .950 |
| 978 | 3.48 | 34.410 | | | 700 | 4.25 | 34.28 | | | 27.21 | 93.6 | 1.047 |
| | | | | | 800 | 4.01 | 34.34 | | | 27.29 | 87.0 | 1.137 |
| | | | | | 1000 | 3.41 | 34.42 | | | 27.41 | 75.7 | 1.300 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 125 44 38.7 N 126 59.1 W DATE 10 JAN 62 0128 GCT WIRE 17 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 3 VEL 3 KTS BAR 31 SWELL DIRECTION 28 H 4 T 9 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.70 | 32.497 | | .63 | 0 | 9.70 | 32.50 | | .63 | 25.08 | 290.0 | 0 |
| 10 | 9.69 | 32.474 | | .60 | 10 | 9.69 | 32.48 | | .60 | 25.06 | 291.7 | .029 |
| 29 | 9.70 | 32.437 | | .60 | 20 | 9.69 | 32.45 | | .60 | 25.04 | 294.2 | .058 |
| 48 | 9.69 | 32.516 | | .58 | 30 | 9.70 | 32.44 | | .60 | 25.03 | 295.1 | .088 |
| 97 | 8.32 | 33.285 | | 1.42 | 50 | 9.65 | 32.54 | | .61 | 25.12 | 286.9 | .146 |
| 145 | 7.54 | 33.777 | | 1.74 | 75 | 9.02 | 32.91 | | 1.00 | 25.50 | 250.7 | .213 |
| 199 | 7.00 | 33.846 | | | 100 | 8.26 | 33.33 | | 1.45 | 25.95 | 208.8 | .271 |
| 202 | 6.92 | 33.921 | | 1.83 | 150 | 7.52 | 33.78 | | 1.75 | 26.42 | 165.1 | .364 |
| 297 | 6.06 | 34.003 | | | 200 | 6.97 | 33.87 | | 1.83 | 26.56 | 151.9 | .443 |
| 298 | 6.07 | 34.009 | | 2.26 | 250 | 6.49 | 33.96 | | 2.03 | 26.70 | 139.4 | .516 |
| 393 | 5.50 | 34.107 | | 2.51 | 300 | 6.06 | 34.02 | | 2.27 | 26.80 | 130.6 | .584 |
| 488 | 5.04 | 34.156 | | 2.56 | 400 | 5.46 | 34.11 | | 2.52 | 26.94 | 117.6 | .708 |
| 584 | 4.62 | 34.166 | | 2.68 | 500 | 4.98 | 34.16 | | 2.58 | 27.04 | 108.9 | .821 |
| 774 | 4.14 | 34.317 | | 2.68 | 600 | 4.57 | 34.18 | | 2.68 | 27.10 | 104.1 | .927 |
| 965 | 3.62 | 34.422 | | 2.76 | 700 | 4.30 | 34.25 | | 2.68 | 27.19 | 96.1 | 1.027 |
| | | | | | 800 | 4.07 | 34.33 | | 2.69 | 27.28 | 87.9 | 1.119 |
| NH 145 44 39.1 N 127 27.0 W DATE 10 JAN 62 0552 GCT WIRE 7 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 2 KTS BAR 31 SWELL DIRECTION 29 H 2 T 8 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.84 | 32.468 | | | 0 | 9.84 | 32.47 | | | 25.03 | 294.3 | 0 |
| 10 | 9.84 | 32.441 | | | 10 | 9.84 | 32.45 | | | 25.01 | 296.5 | .030 |
| 28 | 9.85 | 32.450 | | | 20 | 9.85 | 32.44 | | | 25.01 | 296.9 | .059 |
| 48 | 9.82 | 32.439 | | | 30 | 9.85 | 32.44 | | | 25.01 | 296.9 | .089 |
| 96 | 8.13 | 33.250 | | | 50 | 9.76 | 32.46 | | | 25.04 | 294.4 | .148 |
| 145 | 7.68 | 33.747 | | | 75 | 8.93 | 32.84 | | | 25.47 | 254.2 | .217 |
| 197 | 7.03 | 33.922 | | | 100 | 8.07 | 33.30 | | | 25.96 | 207.8 | .274 |
| 202 | 6.84 | 33.935 | | | 150 | 7.67 | 33.77 | | | 26.38 | 168.0 | .368 |
| 294 | 6.08 | 34.009 | | | 200 | 6.92 | 33.93 | | | 26.61 | 146.8 | .447 |
| 299 | 6.06 | 34.010 | | | 250 | 6.44 | 34.00 | | | 26.73 | 136.1 | .518 |
| 395 | 5.37 | 34.080 | | | 300 | 6.05 | 34.01 | | | 26.79 | 131.0 | .584 |
| 492 | 4.88 | 34.151 | | | 400 | 5.34 | 34.08 | | | 26.94 | 118.2 | .709 |
| 590 | 4.55 | 34.205 | | | 500 | 4.85 | 34.16 | | | 27.05 | 107.4 | .822 |
| 785 | 3.94 | 34.308 | | | 600 | 4.52 | 34.21 | | | 27.13 | 101.0 | .926 |
| 983 | 3.52 | 34.410 | | | 700 | 4.19 | 34.26 | | | 27.21 | 93.8 | 1.023 |
| | | | | | 800 | 3.90 | 34.32 | | | 27.28 | 87.3 | 1.114 |
| | | | | | 1000 | 3.48 | 34.42 | | | 27.40 | 76.6 | 1.277 |
| NH 165 44 39.1 N 127 55.0 W DATE 10 JAN 62 0922 GCT WIRE 2 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 4 VEL 2 KTS BAR 31 SWELL DIRECTION 29 H 1 T 8 CLOUD 6 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.06 | 32.481 | | | 0 | 10.06 | 32.49 | | | 25.01 | 296.8 | 0 |
| 10 | 10.06 | 32.447 | | | 10 | 10.06 | 32.45 | | | 24.98 | 299.5 | .030 |
| 30 | 10.05 | 32.455 | | | 20 | 10.05 | 32.45 | | | 24.98 | 299.6 | .060 |
| 50 | 10.04 | 32.445 | | | 30 | 10.05 | 32.46 | | | 24.99 | 299.1 | .090 |
| 100 | 7.98 | 33.472 | | | 50 | 10.06 | 32.45 | | | 24.98 | 300.3 | .150 |
| 150 | 7.36 | 33.826 | | | 75 | 9.12 | 32.91 | | | 25.49 | 252.1 | .219 |
| 205 | 6.75 | 33.887 | | | 100 | 7.98 | 33.48 | | | 26.11 | 193.6 | .274 |
| 209 | 6.52 | 33.905 | | | 150 | 7.36 | 33.83 | | | 26.47 | 159.4 | .363 |
| 305 | 5.48 | 33.937 | | | 200 | 6.90 | 33.88 | | | 26.58 | 150.2 | .440 |
| 308 | 5.48 | 33.965 | | | 250 | 6.08 | 33.92 | | | 26.72 | 137.4 | .512 |
| 407 | 4.82 | 34.031 | | | 300 | 5.53 | 33.92 | | | 26.79 | 131.0 | .579 |
| 506 | 4.72 | 34.139 | | | 400 | 4.88 | 34.03 | | | 26.94 | 117.0 | .703 |
| 606 | 4.39 | 34.223 | | | 500 | 4.72 | 34.13 | | | 27.05 | 107.7 | .815 |
| 805 | 3.79 | 34.335 | | | 600 | 4.41 | 34.22 | | | 27.15 | 99.2 | .919 |
| 1003 | 3.42 | 34.414 | | | 700 | 4.09 | 34.28 | | | 27.23 | 91.2 | 1.014 |
| | | | | | 800 | 3.80 | 34.33 | | | 27.30 | 84.9 | 1.102 |
| | | | | | 1000 | 3.42 | 34.41 | | | 27.40 | 76.3 | 1.263 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 45 10.9 N 127 58.1 W DATE 10 JAN 62 1521 GCT WIRE 5 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 1 KTS BAR 31 SWELL DIRECTION 27 H 3 T 7 CLOUD 1 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.98 | 32.500 | | | 0 | 9.98 | 32.50 | | | 25.04 | 294.2 | 0 |
| 10 | 9.96 | 32.446 | | | 10 | 9.96 | 32.45 | | | 25.00 | 298.0 | .030 |
| 30 | 9.90 | 32.472 | | | 20 | 9.94 | 32.45 | | | 25.00 | 297.9 | .059 |
| 50 | 9.76 | 32.496 | | | 30 | 9.90 | 32.48 | | | 25.03 | 295.4 | .089 |
| 100 | 8.05 | 33.295 | | | 50 | 9.76 | 32.50 | | | 25.07 | 291.8 | .148 |
| 150 | 7.40 | 33.774 | | | 75 | 8.96 | 32.85 | | | 25.47 | 254.0 | .216 |
| 205 | 6.66 | 33.908 | | | 100 | 8.05 | 33.30 | | | 25.96 | 207.8 | .274 |
| 209 | 6.62 | 33.906 | | | 150 | 7.41 | 33.78 | | | 26.43 | 163.8 | .367 |
| 306 | 5.94 | 33.975 | | | 200 | 6.72 | 33.90 | | | 26.61 | 146.7 | .444 |
| 310 | 5.88 | 33.996 | | | 250 | 6.39 | 33.94 | | | 26.69 | 140.2 | .516 |
| 409 | 5.26 | 34.055 | | | 300 | 6.00 | 33.96 | | | 26.75 | 134.4 | .584 |
| 509 | 4.78 | 34.161 | | | 400 | 5.28 | 34.05 | | | 26.92 | 120.0 | .712 |
| 609 | 4.52 | 34.269 | | | 500 | 4.82 | 34.15 | | | 27.05 | 107.4 | .825 |
| 809 | 4.00 | 34.333 | | | 600 | 4.54 | 34.26 | | | 27.17 | 97.5 | .928 |
| 1009 | 3.52 | 34.425 | | | 700 | 4.28 | 34.31 | | | 27.23 | 91.5 | 1.022 |
| | | | | | 800 | 4.02 | 34.33 | | | 27.28 | 87.5 | 1.112 |
| | | | | | 1000 | 3.54 | 34.42 | | | 27.40 | 77.1 | 1.276 |
| ANH173 45 42.7 N 128 1.8 W DATE 10 JAN 62 2035 GCT WIRE 15 DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 3 KTS BAR 32 SWELL DIRECTION 25 H 3 T 9 CLOUD 0 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.10 | 32.509 | | | 0 | 10.10 | 32.51 | | | 25.02 | 295.4 | 0 |
| 10 | 10.09 | 32.486 | | | 10 | 10.09 | 32.49 | | | 25.01 | 297.1 | .030 |
| 30 | 10.08 | 32.464 | | | 20 | 10.08 | 32.47 | | | 24.99 | 298.5 | .059 |
| 50 | 10.06 | 32.467 | | | 30 | 10.08 | 32.47 | | | 24.99 | 298.9 | .089 |
| 100 | 7.94 | 32.971 | | | 50 | 10.06 | 32.47 | | | 25.00 | 298.7 | .149 |
| 150 | 7.46 | 33.693 | | | 75 | 9.08 | 32.66 | | | 25.30 | 269.8 | .220 |
| 203 | 6.85 | 33.879 | | | 100 | 7.94 | 32.98 | | | 25.72 | 230.3 | .283 |
| 204 | 6.89 | 33.880 | | | 150 | 7.46 | 33.70 | | | 26.36 | 170.7 | .383 |
| 303 | 5.49 | 33.985 | | | 200 | 6.88 | 33.87 | | | 26.57 | 150.9 | .463 |
| 305 | 5.52 | 33.940 | | | 250 | 6.55 | 33.93 | | | 26.66 | 142.7 | .537 |
| 401 | 4.98 | 34.034 | | | 300 | 5.57 | 33.98 | | | 26.83 | 127.1 | .604 |
| 500 | 4.69 | 34.107 | | | 400 | 4.99 | 34.02 | | | 26.93 | 118.7 | .727 |
| 599 | 4.30 | 34.187 | | | 500 | 4.69 | 34.11 | | | 27.03 | 108.9 | .841 |
| 796 | 3.83 | 34.348 | | | 600 | 4.30 | 34.19 | | | 27.14 | 100.1 | .945 |
| 995 | 3.38 | 34.407 | | | 700 | 4.03 | 34.28 | | | 27.23 | 91.1 | 1.041 |
| | | | | | 800 | 3.82 | 34.35 | | | 27.31 | 83.8 | 1.128 |
| | | | | | 1000 | 3.37 | 34.41 | | | 27.41 | 76.0 | 1.288 |
| AH 165 46 14.4 N 128 3.8 W DATE 11 JAN 62 0215 GCT WIRE 7 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 4 KTS BAR 32 SWELL DIRECTION 35 H 4 T 7 CLOUD 0 AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.16 | 32.526 | | | 0 | 9.16 | 32.53 | | | 25.19 | 279.6 | 0 |
| 10 | 9.15 | 32.466 | | | 10 | 9.15 | 32.47 | | | 25.14 | 284.1 | .028 |
| 30 | 9.16 | 32.456 | | | 20 | 9.15 | 32.46 | | | 25.14 | 284.9 | .057 |
| 50 | 9.14 | 32.508 | | | 30 | 9.16 | 32.46 | | | 25.13 | 285.2 | .085 |
| 100 | 7.52 | 33.197 | | | 50 | 9.14 | 32.51 | | | 25.18 | 281.4 | .142 |
| 150 | 7.34 | 33.755 | | | 75 | 8.38 | 32.81 | | | 25.53 | 248.4 | .208 |
| 203 | 6.73 | 33.946 | | | 100 | 7.53 | 33.20 | | | 25.96 | 207.7 | .265 |
| 205 | 6.74 | 33.910 | | | 150 | 7.34 | 33.76 | | | 26.42 | 164.4 | .358 |
| 304 | 5.80 | 33.975 | | | 200 | 6.75 | 33.94 | | | 26.64 | 144.1 | .435 |
| 306 | 5.70 | 33.980 | | | 250 | 6.31 | 33.94 | | | 26.70 | 138.9 | .506 |
| 402 | 5.19 | 34.057 | | | 300 | 5.94 | 33.93 | | | 26.74 | 135.3 | .574 |
| 501 | 4.76 | 34.113 | | | 400 | 5.20 | 34.06 | | | 26.93 | 118.6 | .701 |
| 601 | 4.37 | 34.189 | | | 500 | 4.76 | 34.11 | | | 27.03 | 109.6 | .815 |
| 800 | 3.64 | 34.343 | | | 600 | 4.37 | 34.19 | | | 27.13 | 101.0 | .921 |
| 996 | 3.18 | 34.392 | | | 700 | 3.99 | 34.27 | | | 27.24 | 90.9 | 1.016 |
| | | | | | 800 | 3.65 | 34.35 | | | 27.33 | 82.0 | 1.103 |
| | | | | | 1000 | 3.17 | 34.39 | | | 27.41 | 75.0 | 1.260 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 145 46 14.8 N 127 35.0 W DATE 11 JAN 62 0633 GCT WIRE 8 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 4 KTS BAR 31 SWELL DIRECTION 27 H 4 T 6 CLOUD - AMT - WEATHER 51 | | | | | | | | | | | | |
| 0 | 9.77 | 32.519 | | | 0 | 9.77 | 32.52 | | | 25.08 | 289.5 | 0 |
| 10 | 9.76 | 32.466 | | | 10 | 9.76 | 32.47 | | | 25.04 | 293.4 | .029 |
| 30 | 9.74 | 32.460 | | | 20 | 9.75 | 32.46 | | | 25.04 | 294.0 | .058 |
| 50 | 9.64 | 32.478 | | | 30 | 9.74 | 32.46 | | | 25.04 | 293.8 | .088 |
| 100 | 7.96 | 33.219 | | | 50 | 9.64 | 32.48 | | | 25.07 | 291.2 | .146 |
| 150 | 7.44 | 33.725 | | | 75 | 8.86 | 32.80 | | | 25.45 | 256.1 | .215 |
| 205 | 6.84 | 33.902 | | | 100 | 7.96 | 33.22 | | | 25.91 | 212.1 | .273 |
| 207 | 6.85 | 33.902 | | | 150 | 7.44 | 33.73 | | | 26.38 | 168.0 | .368 |
| 306 | 5.45 | 33.984 | | | 200 | 6.86 | 33.90 | | | 26.60 | 148.1 | .447 |
| 307 | 5.85 | 34.029 | | | 250 | 6.47 | 33.94 | | | 26.68 | 141.1 | .520 |
| 405 | 5.10 | 34.045 | | | 300 | 5.92 | 33.98 | | | 26.78 | 131.7 | .588 |
| 506 | 4.62 | 34.148 | | | 400 | 5.15 | 34.04 | | | 26.93 | 118.9 | .713 |
| 607 | 4.27 | 34.206 | | | 500 | 4.64 | 34.14 | | | 27.06 | 106.1 | .825 |
| 806 | 3.92 | 34.364 | | | 600 | 4.29 | 34.20 | | | 27.15 | 98.9 | .928 |
| 1001 | 3.37 | 34.414 | | | 700 | 4.09 | 34.28 | | | 27.23 | 91.6 | 1.023 |
| | | | | | 800 | 3.93 | 34.35 | | | 27.30 | 85.1 | 1.111 |
| | | | | | 1000 | 3.37 | 34.41 | | | 27.41 | 75.7 | 1.272 |
| AH 125 46 14.4 N 127 6.1 W DATE 11 JAN 62 1105 GCT WIRE 9 DRY 45.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 1 VEL 5 KTS BAR 29 SWELL DIRECTION 25 H 4 T 8 CLOUD 0 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.68 | 32.489 | | | 0 | 9.68 | 32.49 | | | 25.08 | 290.3 | 0 |
| 10 | 9.68 | 32.457 | | | 10 | 9.68 | 32.46 | | | 25.05 | 292.8 | .029 |
| 30 | 9.46 | 32.446 | | | 20 | 9.58 | 32.45 | | | 25.06 | 292.5 | .058 |
| 50 | 9.32 | 32.441 | | | 30 | 9.46 | 32.45 | | | 25.08 | 290.5 | .088 |
| 100 | 7.84 | 33.274 | | | 50 | 9.32 | 32.45 | | | 25.10 | 289.1 | .146 |
| 150 | 7.16 | 33.813 | | | 75 | 8.63 | 32.80 | | | 25.48 | 252.8 | .213 |
| 205 | 6.74 | 33.930 | | | 100 | 7.84 | 33.28 | | | 25.97 | 206.4 | .271 |
| 206 | 6.62 | 33.930 | | | 150 | 7.17 | 33.82 | | | 26.49 | 157.7 | .362 |
| 305 | 5.88 | 33.984 | | | 200 | 7.02 | 33.92 | | | 26.59 | 149.0 | .438 |
| 306 | 5.85 | 34.000 | | | 250 | 6.29 | 33.96 | | | 26.72 | 137.2 | .510 |
| 404 | 5.08 | 34.029 | | | 300 | 5.92 | 33.98 | | | 26.78 | 131.8 | .577 |
| 502 | 4.97 | 34.148 | | | 400 | 5.11 | 34.03 | | | 26.92 | 119.6 | .703 |
| 602 | 4.36 | 34.176 | | | 500 | 4.97 | 34.15 | | | 27.03 | 109.6 | .817 |
| 798 | 3.85 | 34.316 | | | 600 | 4.37 | 34.18 | | | 27.12 | 101.9 | .923 |
| 996 | 3.46 | | | | 700 | 4.04 | 34.23 | | | 27.20 | 94.5 | 1.021 |
| | | | | | 800 | 3.85 | 34.32 | | | 27.29 | 86.6 | 1.111 |
| | | | | | 1000 | 3.45 | 34.41 | | | 27.40 | 76.6 | 1.274 |
| AH 105 46 14.5 N 126 37.3 W DATE 11 JAN 62 1508 GCT WIRE 9 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 4 KTS BAR 27 SWELL DIRECTION 25 H 4 T 7 CLOUD 0 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.12 | 32.539 | | | 0 | 10.13 | 32.54 | | | 25.04 | 293.5 | 0 |
| 10 | 10.11 | 32.476 | | | 10 | 10.11 | 32.48 | | | 24.99 | 298.2 | .030 |
| 30 | 10.04 | 32.468 | | | 20 | 10.09 | 32.47 | | | 24.99 | 298.6 | .059 |
| 50 | 9.74 | 32.456 | | | 30 | 10.04 | 32.47 | | | 25.00 | 298.0 | .089 |
| 100 | 8.07 | 33.190 | | | 50 | 9.74 | 32.46 | | | 25.04 | 294.4 | .148 |
| 150 | 7.60 | 33.748 | | | 75 | 8.91 | 32.77 | | | 25.41 | 259.5 | .218 |
| 205 | 6.80 | 33.895 | | | 100 | 8.07 | 33.20 | | | 25.87 | 215.8 | .277 |
| 208 | 6.72 | 33.931 | | | 150 | 7.60 | 33.75 | | | 26.38 | 168.5 | .373 |
| 306 | 5.75 | 33.963 | | | 200 | 6.90 | 33.87 | | | 26.57 | 150.9 | .453 |
| 309 | 5.70 | 33.999 | | | 250 | 6.19 | 33.94 | | | 26.72 | 136.9 | .525 |
| 409 | 4.96 | 34.056 | | | 300 | 5.78 | 33.96 | | | 26.79 | 131.3 | .592 |
| 509 | 4.62 | 34.137 | | | 400 | 4.98 | 34.05 | | | 26.95 | 116.3 | .716 |
| 610 | 4.40 | 34.211 | | | 500 | 4.64 | 34.13 | | | 27.05 | 106.9 | .827 |
| 810 | 3.94 | 34.331 | | | 600 | 4.42 | 34.20 | | | 27.14 | 100.3 | .931 |
| 1010 | 3.59 | 34.401 | | | 700 | 4.19 | 34.27 | | | 27.21 | 93.3 | 1.028 |
| | | | | | 800 | 3.96 | 34.33 | | | 27.28 | 87.3 | 1.118 |
| | | | | | 1000 | 3.60 | 34.40 | | | 27.37 | 79.4 | 1.284 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 85 46 14.4 N 126 9.0 W DATE 11 JAN 62 1907 GCT WIRE 10 DRY 53.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 3 KTS BAR 27 SWELL DIRECTION 25 H 4 T 7 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.24 | 32.478 | | | 0 | 9.24 | 32.48 | | | 25.14 | 284.4 | 0 |
| 10 | 9.24 | 32.437 | | | 10 | 9.24 | 32.44 | | | 25.11 | 287.6 | .029 |
| 20 | 9.16 | 32.432 | | | 20 | 9.16 | 32.44 | | | 25.11 | 286.9 | .057 |
| 50 | 9.02 | 32.425 | | | 30 | 9.13 | 32.43 | | | 25.12 | 287.0 | .086 |
| 100 | 7.96 | 33.067 | | | 50 | 9.02 | 32.43 | | | 25.13 | 285.7 | .143 |
| 150 | 7.62 | 33.732 | | | 75 | 8.51 | 32.69 | | | 25.42 | 259.0 | .211 |
| 202 | 7.06 | 33.890 | | | 100 | 7.96 | 33.07 | | | 25.79 | 223.4 | .272 |
| 207 | 6.88 | 33.930 | | | 150 | 7.63 | 33.74 | | | 26.36 | 170.0 | .370 |
| 302 | 6.10 | 33.980 | | | 200 | 7.11 | 33.88 | | | 26.55 | 152.7 | .451 |
| 307 | 6.02 | 33.988 | | | 250 | 6.30 | 33.95 | | | 26.71 | 137.8 | .523 |
| 407 | 5.34 | 34.061 | | | 300 | 6.12 | 33.98 | | | 26.76 | 134.1 | .591 |
| 505 | 4.84 | 34.116 | | | 400 | 5.36 | 34.06 | | | 26.91 | 120.4 | .718 |
| 606 | 4.52 | 34.216 | | | 500 | 4.86 | 34.11 | | | 27.02 | 110.7 | .834 |
| 804 | 4.02 | 34.335 | | | 600 | 4.54 | 34.21 | | | 27.13 | 101.2 | .940 |
| 1003 | 3.49 | 34.404 | | | 700 | 4.27 | 34.28 | | | 27.21 | 93.4 | 1.037 |
| | | | | | 800 | 4.03 | 34.33 | | | 27.28 | 87.5 | 1.128 |
| | | | | | 1000 | 3.50 | 34.40 | | | 27.39 | 77.9 | 1.293 |
| AH 65 46 14.4 N 125 39.7 W DATE 11 JAN 62 2255 GCT WIRE 4 DRY 45.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 3 KTS BAR 23 SWELL DIRECTION 28 H 4 T 9 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.04 | 32.443 | | | 0 | 9.04 | 32.45 | | | 25.14 | 284.0 | 0 |
| 10 | 9.04 | 32.436 | | | 10 | 9.04 | 32.44 | | | 25.14 | 284.6 | .028 |
| 30 | 9.02 | 32.438 | | | 20 | 9.03 | 32.44 | | | 25.14 | 284.9 | .057 |
| 50 | 9.00 | 32.455 | | | 30 | 9.02 | 32.44 | | | 25.14 | 284.5 | .085 |
| 100 | 7.96 | 33.535 | | | 50 | 9.00 | 32.46 | | | 25.16 | 283.2 | .142 |
| 149 | 7.26 | 33.869 | | | 75 | 8.55 | 32.95 | | | 25.61 | 240.5 | .208 |
| 203 | 6.66 | 33.940 | | | 100 | 7.96 | 33.54 | | | 26.16 | 188.7 | .261 |
| 205 | 6.70 | 33.920 | | | 150 | 7.23 | 33.88 | | | 26.53 | 154.2 | .347 |
| 303 | 5.93 | 34.030 | | | 200 | 6.69 | 33.94 | | | 26.65 | 143.3 | .421 |
| 305 | 6.00 | 34.064 | | | 250 | 6.17 | 33.97 | | | 26.75 | 134.7 | .491 |
| 403 | 5.42 | 34.041 | | | 300 | 5.93 | 33.99 | | | 26.79 | 131.1 | .557 |
| 503 | 4.94 | 34.136 | | | 400 | 5.50 | 34.04 | | | 26.88 | 123.2 | .684 |
| 603 | 4.50 | 34.197 | | | 500 | 4.95 | 34.13 | | | 27.02 | 110.4 | .801 |
| 803 | 4.08 | 34.325 | | | 600 | 4.51 | 34.20 | | | 27.12 | 102.0 | .907 |
| 1003 | 3.53 | 34.405 | | | 700 | 4.27 | 34.26 | | | 27.20 | 94.9 | 1.006 |
| | | | | | 800 | 4.08 | 34.32 | | | 27.27 | 88.9 | 1.097 |
| | | | | | 1000 | 3.54 | 34.40 | | | 27.39 | 78.3 | 1.264 |
| AH 45 46 14.5 N 125 10.6 W DATE 12 JAN 62 0433 GCT WIRE 12 DRY 49.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 3 KTS BAR 22 SWELL DIRECTION 25 H 4 T 7 CLOUD - AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.52 | 32.508 | | | 0 | 9.52 | 32.51 | | | 25.12 | 286.4 | 0 |
| 10 | 9.52 | 32.467 | | | 10 | 9.52 | 32.46 | | | 25.08 | 290.3 | .029 |
| 29 | 9.53 | 32.461 | | | 20 | 9.53 | 32.46 | | | 25.07 | 290.7 | .058 |
| 48 | 9.36 | 32.477 | | | 30 | 9.52 | 32.46 | | | 25.08 | 290.6 | .087 |
| 97 | 8.32 | 33.519 | | | 50 | 9.32 | 32.51 | | | 25.15 | 284.1 | .144 |
| 145 | 7.48 | 33.822 | | | 75 | 8.83 | 33.01 | | | 25.61 | 240.3 | .210 |
| 199 | 6.80 | 33.923 | | | 100 | 8.26 | 33.55 | | | 26.12 | 192.1 | .264 |
| 202 | 6.74 | 33.933 | | | 150 | 7.43 | 33.83 | | | 26.47 | 160.1 | .352 |
| 296 | 6.00 | 33.988 | | | 200 | 6.78 | 33.93 | | | 26.63 | 145.2 | .428 |
| 300 | 5.97 | 34.016 | | | 250 | 6.22 | 33.96 | | | 26.73 | 136.1 | .499 |
| 398 | 5.34 | 34.046 | | | 300 | 5.97 | 34.02 | | | 26.81 | 129.2 | .565 |
| 498 | 4.97 | 34.132 | | | 400 | 5.33 | 34.05 | | | 26.91 | 120.7 | .690 |
| 597 | 4.64 | 34.186 | | | 500 | 4.96 | 34.13 | | | 27.02 | 110.4 | .805 |
| 795 | 4.06 | 34.354 | | | 600 | 4.63 | 34.19 | | | 27.10 | 103.9 | .913 |
| 993 | 3.54 | 34.411 | | | 700 | 4.33 | 34.28 | | | 27.20 | 94.6 | 1.012 |
| | | | | | 800 | 4.05 | 34.36 | | | 27.30 | 86.0 | 1.102 |
| | | | | | 1000 | 3.52 | 34.41 | | | 27.39 | 77.6 | 1.265 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 35 46 14.5 N 124 56.2 W DATE 12 JAN 62 0735 GCT WIRE 9 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 3 KTS BAR 21 SWELL DIRECTION 25 H 4 T 7 CLOUD 6 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.06 | 32.367 | | | 0 | 9.06 | 32.37 | | | 25.08 | 289.9 | 0 |
| 10 | 9.06 | 32.368 | | | 10 | 9.06 | 32.37 | | | 25.08 | 290.0 | .029 |
| 30 | 9.20 | 32.435 | | | 20 | 9.12 | 32.39 | | | 25.09 | 289.5 | .058 |
| 50 | 9.36 | 32.563 | | | 30 | 9.20 | 32.44 | | | 25.11 | 287.4 | .087 |
| 99 | 8.26 | 33.597 | | | 50 | 9.36 | 32.57 | | | 25.19 | 280.6 | .144 |
| 148 | 7.93 | 33.878 | | | 75 | 8.88 | 33.07 | | | 25.66 | 236.2 | .208 |
| 203 | 7.57 | 33.964 | | | 100 | 8.25 | 33.61 | | | 26.17 | 187.7 | .261 |
| 204 | 7.52 | 33.967 | | | 150 | 7.92 | 33.88 | | | 26.43 | 163.4 | .349 |
| 302 | 6.37 | 34.003 | | | 200 | 7.65 | 33.95 | | | 26.53 | 155.3 | .429 |
| 302 | 6.40 | 33.990 | | | 250 | 6.98 | 33.98 | | | 26.64 | 144.7 | .504 |
| 400 | 5.25 | 34.049 | | | 300 | 6.39 | 34.00 | | | 26.74 | 136.0 | .574 |
| 499 | 5.01 | 34.131 | | | 400 | 5.26 | 34.05 | | | 26.92 | 119.4 | .701 |
| 598 | 4.78 | 34.178 | | | 500 | 5.01 | 34.13 | | | 27.01 | 111.1 | .816 |
| | | | | | 600 | 4.78 | 34.18 | | | 27.08 | 106.4 | .925 |
| AH 25 46 14.4 N 124 41.7 W DATE 12 JAN 62 1042 GCT WIRE 4 DRY 44.0 WET 42.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 2 KTS BAR 19 SWELL DIRECTION 26 H 4 T 9 CLOUD 6 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.72 | 30.930 | | | 0 | 8.72 | 30.94 | | | 24.01 | 391.8 | 0 |
| 10 | 9.12 | 32.009 | | | 10 | 9.13 | 32.01 | | | 24.79 | 317.5 | .035 |
| 30 | 9.44 | 32.400 | | | 20 | 9.34 | 32.37 | | | 25.03 | 294.6 | .066 |
| 50 | 9.40 | 32.517 | | | 30 | 9.44 | 32.40 | | | 25.05 | 293.6 | .095 |
| 105 | 8.34 | 33.616 | | | 50 | 9.40 | 32.52 | | | 25.14 | 284.7 | .153 |
| 154 | 8.00 | 33.865 | | | 75 | 8.96 | 33.00 | | | 25.59 | 242.8 | .219 |
| 204 | 7.59 | 33.936 | | | 100 | 8.45 | 33.51 | | | 26.06 | 197.8 | .274 |
| | | | | | 150 | 8.02 | 33.85 | | | 26.40 | 167.1 | .365 |
| | | | | | 200 | 7.63 | 33.94 | | | 26.52 | 156.0 | .446 |
| AH 15 46 14.5 N 124 27.5 W DATE 12 JAN 62 1305 GCT WIRE 0 DRY 42.0 WET 41.0 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 3 KTS BAR 17 SWELL DIRECTION 26 H 2 T 8 CLOUD 7 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 8.32 | 28.930 | | | 0 | 8.32 | 28.94 | | | 22.51 | 535.4 | 0 |
| 10 | 9.24 | 32.063 | | | 10 | 9.24 | 32.07 | | | 24.81 | 315.3 | .043 |
| 30 | 9.32 | 32.296 | | | 20 | 9.28 | 32.18 | | | 24.90 | 307.7 | .074 |
| 50 | 9.41 | 32.440 | | | 30 | 9.32 | 32.30 | | | 24.98 | 299.5 | .104 |
| 105 | 8.30 | 33.563 | | | 50 | 9.41 | 32.44 | | | 25.08 | 290.5 | .163 |
| 155 | 7.49 | 33.922 | | | 75 | 9.01 | 32.93 | | | 25.52 | 248.7 | .230 |
| 205 | 7.04 | 33.958 | | | 100 | 8.44 | 33.45 | | | 26.02 | 201.8 | .287 |
| | | | | | 150 | 7.56 | 33.91 | | | 26.51 | 156.4 | .376 |
| | | | | | 200 | 7.07 | 33.95 | | | 26.61 | 147.0 | .452 |
| AH 5 46 14.4 N 124 13.7 W DATE 12 JAN 62 1515 GCT WIRE 0 DRY 47.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 3 KTS BAR 16 SWELL DIRECTION 26 H 4 T 7 CLOUD 6 AMT 9 WEATHER | | | | | | | | | | | | |
| 0 | 8.10 | 24.180 | | | 0 | 8.10 | 24.19 | | | 18.83 | 888.4 | 0 |
| 10 | 8.82 | 29.700 | | | 10 | 8.82 | 29.71 | | | 23.04 | 484.9 | .069 |
| 20 | 9.24 | 32.013 | | | 20 | 9.24 | 32.02 | | | 24.78 | 319.2 | .109 |
| 30 | 9.45 | 32.448 | | | 30 | 9.45 | 32.45 | | | 25.08 | 290.2 | .139 |
| 50 | 9.27 | 32.716 | | | 50 | 9.27 | 32.72 | | | 25.32 | 267.9 | .195 |
| CH 5 43 20.3 N 124 28.9 W DATE 13 JAN 62 1244 GCT WIRE 2 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 1 KTS BAR 18 SWELL DIRECTION 32 H 2 T 8 CLOUD 9 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.20 | 32.356 | | | 0 | 9.20 | 32.36 | | | 25.05 | 292.8 | 0 |
| 10 | 9.72 | 32.700 | | | 10 | 9.72 | 32.71 | | | 25.23 | 275.4 | .028 |
| 20 | 9.50 | 33.079 | | | 20 | 9.50 | 33.08 | | | 25.57 | 244.1 | .054 |
| 30 | 9.24 | 33.336 | | | 30 | 9.24 | 33.34 | | | 25.81 | 221.2 | .078 |
| 50 | 9.18 | 33.583 | | | 50 | 9.18 | 33.59 | | | 26.01 | 202.3 | .120 |
| 75 | 9.10 | 33.658 | | | 75 | 9.10 | 33.66 | | | 26.08 | 195.9 | .170 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 15 43 20.4 N 124 43.1 W DATE 13 JAN 62 1443 GCT WIRE 5 DRY 50.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 9 VEL 2 KTS BAR 19 SWELL DIRECTION 27 H 4 T 7 CLOUD 9 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.50 | 32.514 | | | 0 | 9.50 | 32.52 | | | 25.12 | 285.6 | 0 |
| 10 | 9.52 | 32.517 | | | 10 | 9.52 | 32.52 | | | 25.12 | 285.9 | .029 |
| 30 | 9.60 | 32.649 | | | 20 | 9.56 | 32.54 | | | 25.13 | 285.3 | .057 |
| 50 | 9.60 | 33.306 | | | 30 | 9.60 | 32.65 | | | 25.21 | 277.6 | .085 |
| 100 | 8.99 | 33.752 | | | 50 | 9.60 | 33.31 | | | 25.73 | 229.3 | .136 |
| 149 | 8.18 | 33.916 | | | 75 | 9.36 | 33.65 | | | 26.03 | 200.6 | .190 |
| 198 | 7.87 | 34.011 | | | 100 | 8.99 | 33.76 | | | 26.17 | 187.7 | .238 |
| 248 | 7.34 | 34.051 | | | 150 | 8.17 | 33.92 | | | 26.43 | 164.3 | .326 |
| | | | | | 200 | 7.85 | 34.01 | | | 26.55 | 153.5 | .406 |
| | | | | | 250 | 7.32 | 34.05 | | | 26.65 | 143.9 | .480 |
| CH 25 43 20.4 N 124 55.3 W DATE 13 JAN 62 1630 GCT WIRE 3 DRY 47.0 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 4 KTS BAR 20 SWELL DIRECTION 28 H 5 T 6 CLOUD 6 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.30 | 32.416 | | | 0 | 9.30 | 32.42 | | | 25.08 | 289.9 | 0 |
| 9 | 9.41 | 32.518 | | | 10 | 9.43 | 32.55 | | | 25.16 | 282.7 | .029 |
| 28 | 9.72 | 33.087 | | | 20 | 9.61 | 32.84 | | | 25.35 | 264.1 | .056 |
| 47 | 9.65 | 33.372 | | | 30 | 9.71 | 33.13 | | | 25.56 | 244.4 | .081 |
| 94 | 9.20 | 33.690 | | | 50 | 9.63 | 33.40 | | | 25.79 | 223.0 | .128 |
| 142 | 8.34 | | | | 75 | 9.43 | 33.60 | | | 25.98 | 205.4 | .182 |
| 196 | 7.82 | 33.947 | | | 100 | 9.09 | 33.72 | | | 26.12 | 192.3 | .231 |
| 294 | 6.96 | | | | 150 | 8.25 | 33.88 | | | 26.38 | 168.6 | .322 |
| 401 | 6.08 | 34.088 | | | 200 | 7.78 | 33.95 | | | 26.51 | 157.1 | .403 |
| 501 | 5.34 | 34.159 | | | 250 | 7.34 | 34.01 | | | 26.62 | 147.4 | .479 |
| 701 | 4.58 | 34.271 | | | 300 | 6.91 | 34.05 | | | 26.71 | 139.3 | .551 |
| | | | | | 400 | 6.09 | 34.09 | | | 26.85 | 127.2 | .684 |
| | | | | | 500 | 5.35 | 34.16 | | | 26.99 | 113.2 | .804 |
| | | | | | 600 | 4.84 | 34.22 | | | 27.10 | 104.2 | .913 |
| | | | | | 700 | 4.58 | 34.27 | | | 27.17 | 97.9 | 1.014 |
| CH 35 43 20.3 N 125 10.5 W DATE 13 JAN 62 1917 GCT WIRE 3 DRY 49.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 3 KTS BAR 20 SWELL DIRECTION 30 H 4 T 7 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.50 | 32.830 | | | 0 | 9.50 | 32.83 | | | 25.37 | 262.2 | 0 |
| 10 | 9.48 | | | | 10 | 9.48 | 32.45 | | | 25.07 | 290.6 | .028 |
| 29 | 9.48 | 32.883 | | | 20 | 9.48 | 32.68 | | | 25.25 | 273.8 | .056 |
| 48 | 9.74 | 33.316 | | | 30 | 9.49 | 32.90 | | | 25.43 | 257.4 | .082 |
| 95 | 9.32 | 33.681 | | | 50 | 9.74 | 33.34 | | | 25.73 | 229.0 | .131 |
| 144 | 8.74 | | | | 75 | 9.60 | 33.60 | | | 25.95 | 208.5 | .186 |
| 197 | 8.00 | 33.950 | | | 100 | 9.27 | 33.70 | | | 26.09 | 195.8 | .236 |
| 204 | 7.94 | 33.965 | | | 150 | 8.65 | 33.88 | | | 26.32 | 174.4 | .329 |
| 303 | 6.74 | 33.973 | | | 200 | 7.97 | 33.96 | | | 26.48 | 159.5 | .412 |
| 403 | 6.14 | 34.050 | | | 250 | 7.39 | 33.97 | | | 26.58 | 151.0 | .490 |
| 503 | 5.43 | 34.132 | | | 300 | 6.78 | 33.97 | | | 26.67 | 143.2 | .563 |
| 603 | 4.94 | 34.214 | | | 400 | 6.15 | 34.05 | | | 26.81 | 131.1 | .700 |
| 802 | 4.23 | 34.373 | | | 500 | 5.45 | 34.13 | | | 26.96 | 116.7 | .824 |
| 1001 | 3.65 | | | | 600 | 4.95 | 34.21 | | | 27.08 | 106.1 | .936 |
| | | | | | 700 | 4.56 | 34.29 | | | 27.19 | 96.1 | 1.037 |
| | | | | | 800 | 4.24 | 34.37 | | | 27.29 | 87.1 | 1.128 |
| | | | | | 1000 | 3.65 | 34.41 | | | 27.38 | 79.1 | 1.294 |
| CH 45 43 20.5 N 125 24.6 W DATE 13 JAN 62 2227 GCT WIRE 24 DRY 48.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 3 KTS BAR 21 SWELL DIRECTION 32 H 5 T 7 CLOUD 8 AMT 5 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.48 | 32.769 | | | 0 | 9.48 | 32.77 | | | 25.33 | 266.4 | 0 |
| 9 | 9.48 | 32.786 | | | 10 | 9.48 | 32.78 | | | 25.33 | 265.8 | .027 |
| 28 | 9.48 | 32.782 | | | 20 | 9.48 | 32.78 | | | 25.33 | 265.9 | .053 |
| 47 | 9.77 | 33.055 | | | 30 | 9.51 | 32.80 | | | 25.35 | 265.0 | .080 |
| 95 | 9.24 | 33.711 | | | 50 | 9.77 | 33.10 | | | 25.54 | 247.2 | .131 |
| 143 | 8.43 | 33.927 | | | 75 | 9.59 | 33.47 | | | 25.85 | 217.9 | .189 |
| 197 | 7.78 | 34.010 | | | 100 | 9.16 | 33.75 | | | 26.14 | 190.9 | .240 |
| 295 | 6.98 | 34.072 | | | 150 | 8.33 | 33.94 | | | 26.42 | 164.8 | .329 |
| | | | | | 200 | 7.75 | 34.01 | | | 26.56 | 152.0 | .408 |
| | | | | | 250 | 7.29 | 34.06 | | | 26.66 | 143.1 | .482 |
| | | | | | 300 | 6.94 | 34.08 | | | 26.73 | 137.8 | .552 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 85 43 20.5 N 126 18.9 W DATE 14 JAN 62 0712 GCT WIRE 7 DRY 51.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL 0 KTS BAR 25 SWELL DIRECTION 30 H 4 T 7 CLOUD AMT 1 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.02 | 32.652 | | | 0 | 10.02 | 32.66 | | | 25.15 | 283.5 | 0 |
| 10 | 10.04 | 32.651 | | | 10 | 10.04 | 32.66 | | | 25.14 | 284.1 | .028 |
| 30 | 9.96 | 32.654 | | | 20 | 10.00 | 32.65 | | | 25.15 | 283.8 | .057 |
| 50 | 10.06 | 32.653 | | | 30 | 9.96 | 32.66 | | | 25.16 | 282.9 | .085 |
| 100 | 8.78 | 33.356 | | | 50 | 10.06 | 32.66 | | | 25.14 | 284.9 | .142 |
| 150 | 8.12 | 33.810 | | | 75 | 9.52 | 32.96 | | | 25.46 | 254.6 | .209 |
| 204 | 7.56 | 33.959 | | | 100 | 8.78 | 33.36 | | | 25.90 | 213.9 | .268 |
| 205 | 7.50 | 33.956 | | | 150 | 8.12 | 33.81 | | | 26.35 | 171.3 | .364 |
| 303 | 6.68 | 34.014 | | | 200 | 7.69 | 33.95 | | | 26.52 | 156.0 | .446 |
| 305 | 6.64 | | | | 250 | 7.12 | 33.98 | | | 26.63 | 146.4 | .521 |
| 402 | 6.17 | 34.089 | | | 300 | 6.71 | 34.01 | | | 26.70 | 139.7 | .593 |
| 502 | 5.34 | 34.064 | | | 400 | 6.18 | 34.09 | | | 26.84 | 128.4 | .727 |
| 601 | 4.87 | 34.176 | | | 500 | 5.36 | 34.06 | | | 26.92 | 120.3 | .851 |
| 800 | 4.11 | 34.320 | | | 600 | 4.87 | 34.17 | | | 27.06 | 107.9 | .965 |
| 1000 | 3.66 | 34.420 | | | 700 | 4.46 | 34.26 | | | 27.17 | 97.4 | 1.068 |
| | | | | | 800 | 4.11 | 34.33 | | | 27.26 | 89.1 | 1.161 |
| | | | | | 1000 | 3.66 | 34.42 | | | 27.39 | 78.5 | 1.329 |
| CH105 43 20.5 N 126 45.9 W DATE 14 JAN 62 1113 GCT WIRE 5 DRY 50.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 4 KTS BAR 26 SWELL DIRECTION 30 H 3 T 7 CLOUD 4 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.99 | 32.622 | | | 0 | 9.99 | 32.63 | | | 25.13 | 286.3 | 0 |
| 10 | 9.98 | 32.638 | | | 10 | 9.98 | 32.64 | | | 25.14 | 284.1 | .028 |
| 30 | 9.99 | 32.642 | | | 20 | 9.98 | 32.64 | | | 25.14 | 284.5 | .057 |
| 50 | 9.98 | 32.645 | | | 30 | 9.99 | 32.65 | | | 25.14 | 284.3 | .085 |
| 100 | 8.63 | 33.665 | | | 50 | 9.98 | 32.65 | | | 25.15 | 284.2 | .142 |
| 150 | 8.34 | 33.925 | | | 75 | 9.36 | 33.11 | | | 25.61 | 240.6 | .208 |
| 204 | 7.86 | 34.009 | | | 100 | 8.63 | 33.67 | | | 26.16 | 188.7 | .261 |
| 205 | 7.89 | 33.970 | | | 150 | 8.34 | 33.93 | | | 26.41 | 166.0 | .350 |
| 304 | 7.19 | 34.026 | | | 200 | 7.90 | 34.00 | | | 26.53 | 154.9 | .430 |
| 305 | 7.02 | 34.020 | | | 250 | 7.57 | 34.00 | | | 26.57 | 151.7 | .507 |
| 402 | 6.38 | 34.050 | | | 300 | 7.60 | 34.02 | | | 26.59 | 150.8 | .582 |
| 502 | 5.64 | 34.103 | | | 400 | 6.39 | 34.04 | | | 26.77 | 134.5 | .725 |
| 601 | 4.97 | 34.164 | | | 500 | 5.65 | 34.10 | | | 26.91 | 121.3 | .853 |
| 800 | 4.02 | 34.373 | | | 600 | 4.98 | 34.16 | | | 27.04 | 109.9 | .968 |
| 999 | 3.62 | 34.437 | | | 700 | 4.43 | 34.27 | | | 27.19 | 96.2 | 1.072 |
| | | | | | 800 | 4.03 | 34.38 | | | 27.32 | 84.1 | 1.162 |
| | | | | | 1000 | 3.62 | 34.44 | | | 27.40 | 76.8 | 1.322 |
| CH125 43 20.5 N 127 13.7 W DATE 14 JAN 62 1542 GCT WIRE 5 DRY 56.0 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 4 KTS BAR 24 SWELL DIRECTION 24 H 4 T 7 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.86 | 32.578 | | | 0 | 9.86 | 32.58 | | | 25.12 | 286.5 | 0 |
| 10 | 9.87 | 32.575 | | | 10 | 9.88 | 32.58 | | | 25.11 | 287.0 | .029 |
| 29 | 9.85 | 32.635 | | | 20 | 9.86 | 32.59 | | | 25.13 | 285.9 | .057 |
| 48 | 9.86 | 32.800 | | | 30 | 9.85 | 32.64 | | | 25.16 | 282.5 | .086 |
| 97 | 8.97 | 33.634 | | | 50 | 9.83 | 32.83 | | | 25.32 | 268.2 | .141 |
| 146 | 8.44 | 33.926 | | | 75 | 9.43 | 33.26 | | | 25.71 | 231.0 | .203 |
| 200 | 7.75 | 34.016 | | | 100 | 8.93 | 33.66 | | | 26.11 | 193.8 | .256 |
| 204 | 7.58 | 34.010 | | | 150 | 8.39 | 33.94 | | | 26.41 | 165.7 | .346 |
| 298 | 6.21 | 33.983 | | | 200 | 7.76 | 34.02 | | | 26.57 | 151.5 | .425 |
| 304 | 5.92 | 33.977 | | | 250 | 6.97 | 33.99 | | | 26.66 | 143.7 | .499 |
| 403 | 5.58 | 34.086 | | | 300 | 6.11 | 33.98 | | | 26.76 | 134.0 | .569 |
| 503 | 5.04 | 34.124 | | | 400 | 5.59 | 34.08 | | | 26.90 | 121.5 | .696 |
| 603 | 4.66 | 34.216 | | | 500 | 5.06 | 34.12 | | | 27.00 | 112.2 | .813 |
| 802 | 4.10 | 34.335 | | | 600 | 4.67 | 34.21 | | | 27.12 | 102.6 | .920 |
| 1002 | 3.66 | 34.424 | | | 700 | 4.36 | 34.28 | | | 27.20 | 94.6 | 1.019 |
| | | | | | 800 | 4.10 | 34.33 | | | 27.27 | 88.3 | 1.110 |
| | | | | | 1000 | 3.66 | 34.42 | | | 27.39 | 78.3 | 1.277 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH145 43 20.5 N 127 40.1 W DATE 14 JAN 62 2025 GCT WIRE 14 DRY 49.5 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 5 KTS BAR 25 SWELL DIRECTION 30 H 4 T 7 CLOUD 0 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.18 | 32.711 | | | 0 | 10.18 | 32.72 | | | 25.17 | 281.7 | 0 |
| 10 | 10.18 | 32.710 | | | 10 | 10.18 | 32.71 | | | 25.17 | 282.0 | .028 |
| 30 | 10.18 | 32.719 | | | 20 | 10.18 | 32.71 | | | 25.16 | 282.1 | .056 |
| 49 | 10.17 | 32.728 | | | 30 | 10.18 | 32.72 | | | 25.17 | 281.6 | .085 |
| 98 | 8.93 | 33.349 | | | 50 | 10.15 | 32.74 | | | 25.19 | 280.5 | .141 |
| 147 | 7.65 | 33.782 | | | 75 | 9.62 | 33.02 | | | 25.49 | 251.9 | .207 |
| 201 | 7.03 | 33.918 | | | 100 | 8.87 | 33.37 | | | 25.89 | 214.4 | .266 |
| 202 | 6.98 | 33.929 | | | 150 | 7.62 | 33.78 | | | 26.40 | 166.5 | .361 |
| 299 | 6.35 | 34.047 | | | 200 | 7.06 | 33.91 | | | 26.58 | 149.9 | .440 |
| 300 | 6.19 | 34.054 | | | 250 | 6.67 | 34.04 | | | 26.73 | 136.4 | .511 |
| 399 | 5.53 | 34.105 | | | 300 | 6.19 | 34.06 | | | 26.81 | 129.2 | .578 |
| 497 | 4.93 | 34.114 | | | 400 | 5.52 | 34.11 | | | 26.93 | 118.8 | .702 |
| 596 | 4.51 | 34.210 | | | 500 | 4.91 | 34.12 | | | 27.01 | 111.1 | .817 |
| 793 | 4.11 | 34.343 | | | 600 | 4.50 | 34.21 | | | 27.13 | 100.6 | .922 |
| 990 | 3.57 | 34.427 | | | 700 | 4.27 | 34.29 | | | 27.22 | 93.0 | 1.019 |
| | | | | | 800 | 4.09 | 34.35 | | | 27.28 | 87.2 | 1.109 |
| | | | | | 1000 | 3.54 | 34.43 | | | 27.41 | 76.3 | 1.273 |
| CH75S4 43 0.0 N 126 5.3 W DATE 15 JAN 62 2212 GCT WIRE 0 DRY 52.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 2 KTS BAR 30 SWELL DIRECTION 30 H 5 T CLOUD 8 AMT 2 WEATHER 1 | | | | | | | | | | | | |
| 0 | 9.82 | 32.650 | | | 0 | 9.82 | 32.65 | | | 25.18 | 280.5 | 0 |
| 27 | 9.77 | 32.660 | | | 10 | 11.04 | 32.52 | | | 24.86 | 310.7 | .030 |
| 40 | 8.80 | 32.770 | | | 20 | 10.29 | 32.60 | | | 25.06 | 292.3 | .060 |
| 48 | 8.71 | 32.810 | | | 30 | 9.53 | 32.68 | | | 25.25 | 274.2 | .088 |
| 65 | 9.01 | 33.280 | | | 50 | 8.74 | 32.86 | | | 25.51 | 249.8 | .140 |
| 100 | 8.46 | 33.680 | | | 75 | 8.85 | 33.47 | | | 25.97 | 206.2 | .197 |
| | | | | | 100 | 8.46 | 33.68 | | | 26.20 | 185.1 | .246 |
| CH75S2 43 10.2 N 126 5.3 W DATE 15 JAN 62 2345 GCT WIRE DRY 51.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 1 KTS BAR 30 SWELL DIRECTION 31 H 5 T CLOUD 8 AMT 2 WEATHER 1 | | | | | | | | | | | | |
| 0 | 9.96 | 32.440 | | | 0 | 9.96 | 32.44 | | | 24.99 | 298.3 | 0 |
| 42 | 9.94 | 32.570 | | | 10 | 10.31 | 32.48 | | | 24.96 | 301.4 | .030 |
| 63 | 9.70 | 32.630 | | | 20 | 10.19 | 32.51 | | | 25.00 | 297.6 | .060 |
| 75 | 9.10 | 33.260 | | | 30 | 10.08 | 32.54 | | | 25.04 | 293.8 | .089 |
| 82 | 9.28 | 33.420 | | | 50 | 9.92 | 32.59 | | | 25.11 | 287.4 | .148 |
| 110 | 8.70 | 33.600 | | | 75 | 9.10 | 33.26 | | | 25.77 | 225.4 | .212 |
| | | | | | 100 | 9.15 | 33.54 | | | 25.98 | 206.4 | .266 |
| CH70 43 20.4 N 125 58.3 W DATE 16 JAN 62 0241 GCT WIRE DRY 51.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 2 KTS BAR 29 SWELL DIRECTION 29 H 6 T CLOUD AMT WEATHER 1 | | | | | | | | | | | | |
| 0 | 9.60 | 32.667 | | | 0 | 9.60 | 32.67 | | | 25.23 | 275.8 | 0 |
| 57 | 9.74 | 33.060 | | | 10 | 12.82 | 32.71 | | | 24.68 | 327.8 | .030 |
| 75 | 8.56 | 33.193 | | | 20 | 12.17 | 32.79 | | | 24.87 | 310.6 | .062 |
| 97 | 8.54 | 33.563 | | | 30 | 11.51 | 32.86 | | | 25.05 | 293.7 | .092 |
| 105 | 8.20 | 33.615 | | | 50 | 10.20 | 33.01 | | | 25.39 | 261.2 | .148 |
| 125 | 8.26 | 33.865 | | | 75 | 8.56 | 33.20 | | | 25.80 | 222.3 | .208 |
| | | | | | 100 | 8.41 | 33.58 | | | 26.13 | 191.8 | .260 |
| CH95S1 43 15.5 N 126 32.6 W DATE 15 JAN 62 1557 GCT WIRE 4 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 2 KTS BAR 29 SWELL DIRECTION 32 H 6 T CLOUD 8 AMT 2 WEATHER 1 | | | | | | | | | | | | |
| 50 | | 32.629 | | | 0 | 9.96 | 32.67 | | | 25.17 | 281.5 | 0 |
| 0 | 9.96 | 32.633 | | | 10 | 16.67 | 32.71 | | | 23.86 | 406.1 | .034 |
| 90 | 9.34 | 33.355 | | | 20 | 15.76 | 32.79 | | | 24.13 | 381.1 | .074 |
| 96 | 8.79 | 33.359 | | | 30 | 14.84 | 32.86 | | | 24.38 | 356.8 | .111 |
| 102 | 9.25 | 33.576 | | | 50 | 13.01 | 32.63 | | | 24.59 | 337.9 | .180 |
| 108 | 9.63 | 33.699 | | | 75 | 10.72 | 33.16 | | | 25.42 | 258.6 | .255 |
| 115 | 9.55 | 33.717 | | | 100 | 9.04 | 33.50 | | | 25.96 | 207.7 | .313 |
| 150 | 8.30 | 33.853 | | | 150 | 8.30 | 33.85 | | | 26.35 | 171.0 | .408 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 95 43 20.4 N 126 32.6 W DATE 15 JAN 62 1434 GCT WIRE 05 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 2 KTS BAR 23 SWELL DIRECTION 32 H 4 T CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 9.87 | 32.568 | | | 0 | 9.88 | 32.57 | | | 25.11 | 287.4 | 0 |
| 50 | 9.92 | 32.760 | | | 10 | 11.12 | 31.96 | | | 24.42 | 353.1 | .032 |
| 85 | 8.87 | 33.459 | | | 20 | 10.82 | 32.16 | | | 24.63 | 333.5 | .066 |
| 108 | 8.95 | 33.769 | | | 30 | 10.52 | 32.36 | | | 24.83 | 313.9 | .099 |
| 150 | 8.59 | 33.906 | | | 50 | 9.92 | 32.76 | | | 25.25 | 274.8 | .158 |
| | | | | | 75 | 9.14 | 33.25 | | | 25.75 | 227.1 | .220 |
| | | | | | 100 | 8.90 | 33.68 | | | 26.13 | 192.1 | .273 |
| | | | | | 150 | 8.59 | 33.91 | | | 26.35 | 171.4 | .364 |
| CH95S2 43 10.0 N 126 32.9 W DATE 15 JAN 62 1645 GCT WIRE DRY 48.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 28 SWELL DIRECTION 32 H 7 T CLOUD 8 AMT 3 WEATHER 2 | | | | | | | | | | | | |
| 0 | 9.94 | 32.557 | | | 0 | 9.94 | 32.56 | | | 25.09 | 289.3 | 0 |
| 20 | 9.92 | 32.573 | | | 10 | 10.19 | 32.50 | | | 25.00 | 297.9 | .029 |
| 45 | 9.25 | 32.755 | | | 20 | 9.92 | 32.58 | | | 25.10 | 288.1 | .059 |
| 58 | 9.65 | 32.937 | | | 30 | 9.58 | 32.62 | | | 25.19 | 279.7 | .087 |
| 70 | 9.82 | 33.209 | | | 50 | 9.39 | 32.81 | | | 25.37 | 262.7 | .141 |
| 80 | 9.54 | 33.404 | | | 75 | 9.70 | 33.31 | | | 25.71 | 231.5 | .203 |
| 90 | 9.25 | 33.606 | | | 100 | 8.90 | 33.68 | | | 26.13 | 192.1 | .256 |
| CH95S4 43 0.0 N 126 32.4 W DATE 15 JAN 62 1840 GCT WIRE DRY 51.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 2 KTS BAR 32 SWELL DIRECTION 28 H 8 T CLOUD 8 AMT 2 WEATHER 1 | | | | | | | | | | | | |
| 0 | 10.27 | 32.648 | | | 0 | 10.27 | 32.65 | | | 25.10 | 287.8 | 0 |
| 3 | 10.27 | | | | 10 | 10.27 | 32.58 | | | 25.05 | 293.2 | .029 |
| 25 | 10.21 | 32.637 | | | 20 | 10.24 | 32.62 | | | 25.08 | 290.1 | .058 |
| 55 | 9.84 | 32.749 | | | 30 | 10.20 | 32.64 | | | 25.10 | 288.2 | .087 |
| 75 | 8.92 | 33.020 | | | 50 | 9.96 | 32.71 | | | 25.20 | 279.1 | .144 |
| 110 | 8.34 | 33.727 | | | 75 | 8.92 | 33.02 | | | 25.61 | 240.5 | .209 |
| 135 | 8.31 | 33.878 | | | 100 | 8.41 | 33.54 | | | 26.09 | 195.1 | .263 |
| 160 | 7.83 | 33.934 | | | 150 | 8.00 | 33.91 | | | 26.45 | 162.1 | .352 |
| 170 | 7.87 | 33.971 | | | 200 | 7.06 | 33.91 | | | 26.58 | 149.9 | .430 |
| NH 5 44 39.1 N 124 10.7 W DATE 3 FEB 62 1700 GCT WIRE 0 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 5 KTS BAR 24 SWELL DIRECTION 18 H 3 T CLOUD 7 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 8.62 | 32.200 | 6.88 | | 0 | 8.63 | 32.21 | 6.89 | | 25.02 | 295.9 | 0 |
| 10 | 8.60 | 32.200 | 6.94 | | 10 | 8.60 | 32.21 | 6.94 | | 25.02 | 295.7 | .030 |
| 20 | 8.60 | 32.201 | 6.89 | | 20 | 8.60 | 32.21 | 6.90 | | 25.02 | 295.8 | .059 |
| 30 | 8.50 | 32.695 | 5.70 | | 30 | 8.50 | 32.70 | 5.70 | | 25.42 | 257.8 | .087 |
| 40 | 8.69 | 33.143 | 4.40 | | 50 | 8.73 | 33.55 | 3.66 | | 26.05 | 198.4 | .132 |
| 50 | 8.73 | 33.544 | 3.66 | | 75 | 8.92 | 33.02 | | | 25.61 | 240.5 | .187 |
| NH 15 44 39.1 N 124 24.7 W DATE 3 FEB 62 1900 GCT WIRE 0 DRY 48.3 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 4 KTS BAR 24 SWELL DIRECTION 22 H 3 T 8 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.12 | 32.529 | 6.60 | | 0 | 9.13 | 32.53 | 6.60 | | 25.20 | 278.8 | 0 |
| 10 | 9.10 | 32.528 | 6.83 | | 10 | 9.10 | 32.53 | 6.83 | | 25.20 | 278.7 | .028 |
| 20 | 9.00 | 32.521 | 6.78 | | 20 | 9.00 | 32.53 | 6.79 | | 25.21 | 277.9 | .056 |
| 30 | 8.93 | 32.515 | 6.75 | | 30 | 8.93 | 32.52 | 6.76 | | 25.22 | 277.4 | .083 |
| 40 | 8.88 | 32.520 | 6.60 | | 50 | 8.73 | 32.53 | 6.44 | | 25.26 | 273.7 | .139 |
| 50 | | 32.530 | 6.43 | | 75 | 8.92 | 32.52 | 6.85 | | 25.22 | 277.6 | .207 |
| 75 | | 32.520 | 6.85 | | 100 | 8.41 | 33.54 | | | 26.09 | 195.1 | .267 |
| NH 25 44 39.0 N 124 38.6 W DATE 3 FEB 62 2114 GCT WIRE 0 DRY 51.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 4 KTS BAR 24 SWELL DIRECTION 22 H 3 T 7 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.31 | 32.550 | | | 0 | 9.31 | 32.55 | | | 25.18 | 280.1 | 0 |
| 10 | 9.27 | 32.547 | 7.57 | | 10 | 9.27 | 32.55 | 7.57 | | 25.19 | 279.8 | .028 |
| 20 | 9.25 | 32.545 | 6.64 | | 20 | 9.25 | 32.55 | 6.65 | | 25.19 | 279.8 | .056 |
| 30 | 9.10 | 32.522 | 6.45 | | 30 | 9.10 | 32.53 | 6.45 | | 25.19 | 279.4 | .084 |
| 50 | 8.82 | 32.666 | 6.40 | | 50 | 8.82 | 32.67 | 6.41 | | 25.35 | 264.9 | .138 |
| 99 | 8.61 | 33.534 | 3.76 | | 75 | 8.69 | 33.10 | 5.18 | | 25.70 | 231.7 | .200 |
| 148 | 8.08 | 33.878 | 2.60 | | 100 | 8.60 | 33.55 | 3.72 | | 26.07 | 197.5 | .254 |
| 198 | 7.66 | 33.929 | 2.25 | | 150 | 8.06 | 33.89 | 2.57 | | 26.42 | 165.1 | .345 |
| | | | | | 200 | 7.64 | 33.92 | 2.25 | | 26.51 | 157.1 | .425 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 35 44 39.1 N 124 53.0 W DATE 3 FEB 62 2320 GCT WIRE 0 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 4 KTS BAR 24 SWELL DIRECTION 22 H 2 T 2 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.31 | 32.533 | 6.76 | | 0 | 9.31 | 32.54 | 6.77 | | 25.17 | 281.3 | 0 |
| 10 | 9.30 | 32.529 | 6.75 | | 10 | 9.30 | 32.53 | 6.76 | | 25.17 | 281.6 | .028 |
| 30 | 9.12 | 32.559 | 6.65 | | 20 | 9.22 | 32.54 | 6.71 | | 25.19 | 279.9 | .056 |
| 50 | 8.96 | 32.567 | 6.56 | | 30 | 9.13 | 32.56 | 6.66 | | 25.22 | 277.0 | .084 |
| 99 | 8.61 | 33.499 | 4.35 | | 50 | 8.96 | 32.56 | 6.57 | | 25.24 | 275.0 | .139 |
| 149 | 8.29 | 33.824 | 3.16 | | 75 | 8.78 | 32.99 | 5.54 | | 25.61 | 240.7 | .204 |
| 199 | 7.89 | 33.969 | 2.41 | | 100 | 8.60 | 33.51 | 4.32 | | 26.04 | 200.2 | .259 |
| 289 | 6.90 | 34.016 | 2.08 | | 150 | 8.28 | 33.83 | 3.14 | | 26.34 | 172.6 | .352 |
| | | | | | 200 | 7.88 | 33.97 | 2.40 | | 26.51 | 157.0 | .434 |
| | | | | | 250 | 7.37 | 34.00 | 2.22 | | 26.60 | 148.9 | .511 |
| NH 45 44 39.1 N 125 6.9 W DATE 4 FEB 62 0250 GCT WIRE 0 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 2 KTS BAR 24 SWELL DIRECTION 26 H 3 T 8 CLOUD 6 AMT 10 WEATHER 00 | | | | | | | | | | | | |
| 0 | 9.26 | 32.515 | | | 0 | 9.26 | 32.52 | | | 25.16 | 281.9 | 0 |
| 10 | 9.25 | 32.512 | | | 10 | 9.25 | 32.52 | | | 25.16 | 282.1 | .028 |
| 30 | 8.95 | 32.510 | | | 20 | 9.11 | 32.51 | | | 25.18 | 280.6 | .056 |
| 50 | 8.81 | 32.569 | | | 30 | 8.95 | 32.51 | | | 25.21 | 278.1 | .084 |
| 75 | 9.49 | 33.044 | | | 50 | 8.81 | 32.57 | | | 25.28 | 271.9 | .139 |
| 100 | 9.20 | 33.292 | | | 75 | 9.49 | 33.05 | | | 25.54 | 247.4 | .204 |
| 115 | 7.88 | 33.390 | | | 100 | 9.20 | 33.30 | | | 25.78 | 225.0 | .263 |
| 200 | 7.43 | 33.937 | | | 150 | 7.63 | 33.62 | | | 26.27 | 179.1 | .364 |
| 201 | 7.36 | 33.974 | | | 200 | 7.44 | 33.94 | | | 26.55 | 152.9 | .447 |
| 300 | 6.44 | 33.997 | | | 250 | 6.90 | 33.99 | | | 26.66 | 143.2 | .521 |
| 399 | 5.71 | 34.050 | | | 300 | 6.44 | 34.00 | | | 26.73 | 136.7 | .591 |
| 500 | 5.23 | 34.108 | | | 400 | 5.70 | 34.05 | | | 26.87 | 125.1 | .722 |
| | | | | | 500 | 5.23 | 34.11 | | | 26.97 | 115.5 | .842 |
| NH 65 44 39.2 N 125 35.4 W DATE 4 FEB 62 0700 GCT WIRE 0 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION -- VEL - KTS BAR 24 SWELL DIRECTION 26 H 1 T 7 CLOUD 6 AMT 10 WEATHER 00 | | | | | | | | | | | | |
| 0 | 9.78 | 32.566 | 6.73 | | 0 | 9.78 | 32.57 | 6.73 | | 25.12 | 286.1 | 0 |
| 10 | 9.79 | 32.566 | 6.68 | | 10 | 9.79 | 32.57 | 6.69 | | 25.12 | 286.4 | .029 |
| 30 | 9.71 | 32.583 | 6.63 | | 20 | 9.75 | 32.57 | 6.65 | | 25.13 | 285.8 | .057 |
| 50 | 9.71 | 32.609 | 6.66 | | 30 | 9.71 | 32.59 | 6.64 | | 25.14 | 284.2 | .086 |
| 100 | 9.27 | 32.770 | 6.29 | | 50 | 9.71 | 32.61 | 6.67 | | 25.16 | 282.6 | .142 |
| 150 | 7.92 | 33.579 | 4.36 | | 75 | 9.59 | 32.64 | 6.61 | | 25.21 | 279.1 | .213 |
| 199 | 7.15 | 33.842 | 3.82 | | 100 | 9.27 | 32.77 | 6.30 | | 25.36 | 264.7 | .281 |
| 200 | 7.14 | 33.866 | 3.88 | | 150 | 7.93 | 33.58 | 4.36 | | 26.20 | 185.6 | .393 |
| 298 | 5.96 | 33.966 | 2.27 | | 200 | 7.15 | 33.87 | 3.89 | | 26.54 | 154.2 | .478 |
| 299 | 6.05 | 33.955 | 2.48 | | 250 | 6.54 | 33.92 | 3.06 | | 26.65 | 143.5 | .552 |
| 397 | 5.31 | 34.037 | 1.41 | | 300 | 6.04 | 33.96 | 2.47 | | 26.75 | 134.9 | .622 |
| 497 | 4.97 | 34.073 | 1.05 | | 400 | 5.30 | 34.04 | 1.40 | | 26.91 | 121.1 | .750 |
| 597 | 4.61 | 34.194 | .50 | | 500 | 4.96 | 34.08 | 1.03 | | 26.98 | 114.6 | .868 |
| 696 | 4.38 | 34.276 | .23 | | 600 | 4.60 | 34.20 | .49 | | 27.11 | 103.0 | .976 |
| 797 | 4.13 | 34.329 | .23 | | 700 | 4.37 | 34.28 | .23 | | 27.20 | 94.8 | 1.075 |
| 996 | 3.57 | 34.410 | .19 | | 800 | 4.12 | 34.33 | .23 | | 27.27 | 88.8 | 1.167 |
| | | | | | 1000 | 3.56 | 34.41 | .19 | | 27.39 | 78.0 | 1.334 |
| NH 85 44 39.2 N 126 3.6 W DATE 4 FEB 62 1117 GCT WIRE 3 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 3 KTS BAR 23 SWELL DIRECTION 26 H 1 T 7 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.66 | 32.509 | 6.54 | | 0 | 9.66 | 32.51 | 6.55 | | 25.09 | 288.5 | 0 |
| 10 | 9.70 | 32.509 | 5.85 | | 10 | 9.70 | 32.51 | 5.85 | | 25.09 | 289.3 | .029 |
| 29 | 9.42 | 32.520 | 5.40 | | 20 | 9.57 | 32.51 | 5.46 | | 25.11 | 287.3 | .058 |
| 49 | 9.30 | 32.529 | 6.43 | | 30 | 9.41 | 32.52 | 5.44 | | 25.14 | 284.6 | .086 |
| 98 | 8.14 | 33.241 | 4.77 | | 50 | 9.28 | 32.54 | 6.42 | | 25.18 | 281.4 | .143 |
| 148 | 7.48 | 33.790 | 3.44 | | 75 | 8.73 | 32.86 | 5.90 | | 25.51 | 250.1 | .209 |
| 198 | 6.98 | 33.895 | 2.95 | | 100 | 8.11 | 33.27 | 4.71 | | 25.93 | 210.8 | .267 |
| 199 | 6.93 | 33.913 | 2.91 | | 150 | 7.46 | 33.79 | 3.42 | | 26.43 | 163.5 | .360 |
| 297 | 5.90 | 33.961 | 2.31 | | 200 | 6.90 | 33.92 | 2.90 | | 26.61 | 147.4 | .438 |
| 299 | 5.88 | 33.976 | 2.04 | | 250 | 5.91 | 33.94 | 2.60 | | 26.75 | 133.9 | .508 |
| 398 | 5.14 | 34.036 | 1.01 | | 300 | 5.87 | 33.98 | 1.97 | | 26.79 | 131.0 | .575 |
| 498 | 4.88 | 34.140 | .70 | | 400 | 5.13 | 34.04 | 1.00 | | 26.92 | 119.1 | .700 |
| 598 | 4.58 | 34.250 | .40 | | 500 | 4.87 | 34.14 | .69 | | 27.04 | 108.7 | .813 |
| 697 | 4.31 | 34.277 | .39 | | 600 | 4.57 | 34.25 | .40 | | 27.16 | 98.6 | .917 |
| 798 | 3.98 | 34.323 | .39 | | 700 | 4.30 | 34.28 | .39 | | 27.21 | 94.0 | 1.013 |
| 998 | 3.56 | 34.407 | .47 | | 800 | 3.97 | 34.32 | .39 | | 27.28 | 87.6 | 1.104 |
| | | | | | 1000 | 3.56 | 34.41 | .47 | | 27.39 | 78.2 | 1.270 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 125 44 39.5 N 126 59.0 W DATE 4 FEB 62 2126 GCT WIRE 10 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 4 KTS BAR 20 SWELL DIRECTION 22 H 2 T 7 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.44 | 32.493 | 6.34 | | 0 | 9.44 | 32.50 | 6.34 | | 25.12 | 286.3 | 0 |
| 10 | 9.45 | 32.492 | 6.83 | | 10 | 9.45 | 32.50 | 6.83 | | 25.12 | 286.7 | .029 |
| 30 | 8.93 | 32.478 | 6.40 | | 20 | 9.22 | 32.49 | 6.69 | | 25.14 | 284.1 | .057 |
| 50 | 8.71 | 32.479 | 6.66 | | 30 | 8.93 | 32.48 | 6.41 | | 25.19 | 280.2 | .085 |
| 100 | 8.79 | 32.500 | 4.43 | | 50 | 8.71 | 32.48 | 6.67 | | 25.22 | 277.2 | .141 |
| 150 | 7.94 | 33.490 | 4.48 | | 75 | 8.75 | 32.49 | 5.66 | | 25.22 | 277.6 | .210 |
| 201 | 7.07 | 33.920 | 2.76 | | 100 | 8.79 | 32.50 | 4.43 | | 25.23 | 277.5 | .280 |
| 301 | 6.04 | 33.977 | 2.21 | | 150 | 7.94 | 33.50 | 4.48 | | 26.13 | 192.5 | .397 |
| 401 | 5.34 | 34.033 | 1.44 | | 200 | 7.09 | 33.92 | 2.80 | | 26.58 | 150.1 | .483 |
| 502 | 5.06 | 34.123 | .47 | | 250 | 6.49 | 33.95 | 2.27 | | 26.69 | 140.5 | .556 |
| 602 | 4.69 | 34.201 | .44 | | 300 | 6.05 | 33.98 | 2.22 | | 26.77 | 133.5 | .624 |
| 702 | 4.30 | 34.289 | .39 | | 400 | 5.35 | 34.03 | 1.45 | | 26.89 | 122.2 | .752 |
| 802 | 4.00 | 34.363 | .31 | | 500 | 5.06 | 34.12 | .49 | | 27.00 | 112.5 | .869 |
| 1002 | 3.61 | 34.400 | .50 | | 600 | 4.70 | 34.20 | .44 | | 27.10 | 103.9 | .977 |
| | | | | | 700 | 4.31 | 34.29 | .39 | | 27.21 | 93.4 | 1.076 |
| | | | | | 800 | 4.01 | 34.30 | .31 | | 27.26 | 89.5 | 1.167 |
| | | | | | 1000 | 3.61 | 34.40 | .50 | | 27.37 | 79.5 | 1.336 |
| NH 145 44 39.0 N 127 27.0 W DATE 5 FEB 62 0130 GCT WIRE 8 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 5 KTS BAR 19 SWELL DIRECTION 22 H 3 T 7 CLOUD 6 AMT 10 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.48 | 32.490 | 6.56 | | 0 | 9.48 | 32.50 | 6.57 | | 25.11 | 287.1 | 0 |
| 10 | 9.48 | 32.497 | 6.73 | | 10 | 9.48 | 32.50 | 6.73 | | 25.11 | 286.8 | .029 |
| 30 | 9.12 | 32.480 | 6.71 | | 20 | 9.31 | 32.49 | 6.72 | | 25.13 | 285.2 | .057 |
| 49 | 9.06 | 32.489 | 4.40 | | 30 | 9.13 | 32.48 | 6.71 | | 25.14 | 282.9 | .086 |
| 98 | 8.12 | 32.508 | 4.50 | | 50 | 9.04 | 32.49 | 4.40 | | 25.17 | 281.6 | .142 |
| 148 | 7.57 | 33.286 | 3.38 | | 75 | 8.61 | 32.50 | 4.45 | | 25.25 | 274.8 | .212 |
| 198 | 7.07 | 33.812 | 2.51 | | 100 | 8.09 | 32.53 | 4.46 | | 25.35 | 265.2 | .279 |
| 199 | 7.04 | 33.916 | 2.60 | | 150 | 7.57 | 33.31 | 3.24 | | 26.03 | 201.2 | .396 |
| 297 | 6.11 | 33.927 | 1.89 | | 200 | 7.01 | 33.92 | 2.59 | | 26.59 | 149.0 | .483 |
| 299 | 6.14 | 33.986 | 1.96 | | 250 | 6.56 | 33.92 | 2.23 | | 26.65 | 143.6 | .556 |
| 398 | 5.37 | 34.035 | 1.26 | | 300 | 6.13 | 34.00 | 1.95 | | 26.77 | 132.6 | .625 |
| 496 | 5.11 | 34.127 | .78 | | 400 | 5.36 | 34.04 | 1.25 | | 26.90 | 121.9 | .753 |
| 593 | 4.68 | 34.198 | .58 | | 500 | 5.09 | 34.13 | .77 | | 27.00 | 112.2 | .870 |
| 689 | 4.42 | 34.251 | .43 | | 600 | 4.66 | 34.20 | .57 | | 27.11 | 103.3 | .977 |
| 786 | 4.14 | 34.309 | .40 | | 700 | 4.39 | 34.26 | .43 | | 27.18 | 96.6 | 1.077 |
| 908 | 3.69 | 34.371 | .23 | | 800 | 4.09 | 34.32 | .39 | | 27.26 | 89.5 | 1.170 |
| NH 165 44 39.0 N 127 55.0 W DATE 5 FEB 62 0620 GCT WIRE 10 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 5 KTS BAR 17 SWELL DIRECTION 15 H 3 T - CLOUD 6 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.53 | 32.495 | 6.21 | | 0 | 9.53 | 32.50 | 6.21 | | 25.10 | 287.5 | 0 |
| 10 | 9.53 | 32.495 | | | 10 | 9.53 | 32.50 | 8.50 | | 25.10 | 287.7 | .029 |
| 30 | 9.06 | 32.486 | | | 20 | 9.31 | 32.49 | 7.97 | | 25.13 | 285.2 | .057 |
| 50 | 8.97 | 32.514 | 6.39 | | 30 | 9.06 | 32.49 | 7.45 | | 25.17 | 281.5 | .086 |
| 100 | 7.96 | 33.471 | 3.75 | | 50 | 8.97 | 32.52 | 6.40 | | 25.21 | 278.4 | .142 |
| 149 | 7.53 | 33.852 | 2.73 | | 75 | 8.50 | 32.95 | 5.15 | | 25.62 | 239.8 | .206 |
| 197 | 7.01 | 33.933 | 2.91 | | 100 | 7.96 | 33.48 | 3.76 | | 26.11 | 193.4 | .261 |
| 199 | 6.96 | 33.935 | 2.83 | | 150 | 7.53 | 33.86 | 2.75 | | 26.47 | 159.8 | .349 |
| 297 | 5.93 | 33.984 | 1.98 | | 200 | 6.94 | 33.94 | 2.80 | | 26.62 | 146.5 | .425 |
| 299 | 5.92 | 33.975 | 1.98 | | 250 | 6.18 | 33.96 | 2.39 | | 26.74 | 135.7 | .496 |
| 397 | 5.39 | 34.057 | 1.14 | | 300 | 5.91 | 33.98 | 1.97 | | 26.78 | 131.8 | .563 |
| 498 | 5.00 | 34.126 | .70 | | 400 | 5.38 | 34.06 | 1.12 | | 26.91 | 120.5 | .689 |
| 597 | 4.58 | 34.196 | .53 | | 500 | 4.99 | 34.13 | .70 | | 27.01 | 111.2 | .805 |
| 697 | 4.32 | 34.273 | .34 | | 600 | 4.57 | 34.20 | .52 | | 27.12 | 102.5 | .911 |
| 797 | 4.09 | 34.322 | .30 | | 700 | 4.31 | 34.27 | .34 | | 27.20 | 94.4 | 1.010 |
| 993 | 3.50 | 34.409 | .30 | | 800 | 4.08 | 34.32 | .30 | | 27.27 | 88.8 | 1.101 |
| | | | | | 1000 | 3.48 | 34.41 | .30 | | 27.40 | 77.0 | 1.267 |
| CH 5 43 20.5 N 124 29.0 W DATE 2 MAR 62 0600 GCT WIRE 10 DRY 44.0 WET 42.0 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 30 KTS BAR 11 SWELL DIRECTION 24 H 5 T 8 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.17 | 32.552 | | | 0 | 9.17 | 32.56 | | | 25.21 | 277.8 | 0 |
| 10 | 9.22 | 32.563 | | | 10 | 9.22 | 32.57 | | | 25.21 | 277.9 | .028 |
| 20 | 9.22 | 32.570 | | | 20 | 9.22 | 32.57 | | | 25.21 | 277.5 | .056 |
| 29 | 9.22 | 32.583 | | | 30 | 9.22 | 32.58 | | | 25.22 | 277.0 | .083 |
| 39 | 9.24 | 32.627 | | | 50 | 9.27 | 32.84 | | | 25.41 | 259.0 | .137 |
| 48 | 9.29 | 32.801 | | | 75 | 8.50 | 32.95 | | | 25.62 | 239.8 | .199 |
| 73 | 9.05 | 33.313 | | | 100 | 7.96 | 33.48 | | | 26.11 | 193.4 | .253 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 15 43 20.5 N 124 43.1 W DATE 2 MAR 62 0840 GCT WIRE 10 DRY 42.0 WET 40.0 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 30 KTS BAR 10 SWELL DIRECTION 27 H 4 T 7 CLOUD 9 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.75 | 32.801 | | | 0 | 9.75 | 32.81 | | | 25.31 | 268.2 | 0 |
| 10 | 9.76 | 32.791 | | | 10 | 9.76 | 32.80 | | | 25.30 | 269.3 | .027 |
| 20 | 9.76 | 32.794 | | | 20 | 9.76 | 32.80 | | | 25.30 | 269.2 | .054 |
| 29 | 9.75 | 32.796 | | | 30 | 9.74 | 32.80 | | | 25.31 | 268.8 | .081 |
| 48 | 9.46 | 32.995 | | | 50 | 9.42 | 33.03 | | | 25.54 | 246.9 | .132 |
| 73 | 8.96 | 33.463 | | | 75 | 8.93 | 33.48 | | | 25.97 | 206.7 | .189 |
| 97 | 8.70 | 33.624 | | | 100 | 8.67 | 33.65 | | | 26.14 | 191.1 | .239 |
| 146 | 8.15 | 33.910 | | | 150 | 8.08 | 33.92 | | | 26.44 | 162.8 | .327 |
| 196 | 7.36 | 33.996 | | | 200 | 7.32 | 34.00 | | | 26.61 | 146.9 | .405 |
| 245 | 7.01 | 34.033 | | | 250 | 6.97 | 34.04 | | | 26.69 | 140.3 | .476 |
| CH 25 43 20.5 N 124 55.6 W DATE 02 MAR 62 GCT WIRE 10 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION VEL 65 KTS BAR SWELL DIRECTION H T CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 9.71 | 32.796 | | | 0 | 9.71 | 32.80 | | | 25.31 | 268.0 | 0 |
| 10 | 9.68 | 32.796 | | | 10 | 9.68 | 32.80 | | | 25.32 | 267.7 | .027 |
| 30 | 9.69 | 32.803 | | | 20 | 9.69 | 32.80 | | | 25.31 | 267.9 | .054 |
| 39 | 9.64 | 32.793 | | | 30 | 9.69 | 32.81 | | | 25.32 | 267.6 | .080 |
| 48 | 9.70 | 32.849 | | | 50 | 9.70 | 32.86 | | | 25.36 | 264.3 | .134 |
| 72 | 9.70 | 32.882 | | | 75 | 8.93 | 33.48 | | | 25.97 | 206.7 | .192 |
| CH 5 43 20.5 N 124 29.0 W DATE 08 MAR 62 0305 GCT WIRE 1 DRY 48.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 21 SWELL DIRECTION 28 H 6 T - CLOUD 1 AMT - WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.68 | 32.650 | | | 0 | 9.68 | 32.65 | | | 25.20 | 278.3 | 0 |
| 10 | 9.58 | 32.643 | | | 10 | 9.58 | 32.65 | | | 25.21 | 277.5 | .028 |
| 20 | 9.36 | 32.627 | | | 20 | 9.36 | 32.63 | | | 25.24 | 275.4 | .055 |
| 30 | 9.50 | 32.673 | | | 30 | 9.50 | 32.68 | | | 25.25 | 274.3 | .083 |
| 50 | 9.44 | 32.739 | | | 50 | 9.44 | 32.74 | | | 25.31 | 268.8 | .137 |
| 75 | 9.16 | 32.914 | | | 75 | 9.16 | 32.92 | | | 25.49 | 252.0 | .202 |
| CH 15 43 20.5 N 124 43.2 W DATE 8 MAR 62 0548 GCT WIRE 3 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 3 KTS BAR 22 SWELL DIRECTION 28 H 5 T 8 CLOUD - AMT 1 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.72 | 32.723 | | | 0 | 9.72 | 32.73 | | | 25.25 | 273.6 | 0 |
| 10 | 9.66 | 32.717 | | | 10 | 9.66 | 32.72 | | | 25.26 | 273.2 | .027 |
| 30 | 9.53 | 32.761 | | | 20 | 9.59 | 32.73 | | | 25.28 | 271.3 | .055 |
| 50 | 9.49 | 32.795 | | | 30 | 9.53 | 32.77 | | | 25.31 | 268.3 | .082 |
| 100 | 9.00 | 33.397 | | | 50 | 9.49 | 32.80 | | | 25.35 | 265.4 | .135 |
| 150 | 8.31 | 33.769 | | | 75 | 9.29 | 33.06 | | | 25.58 | 243.1 | .198 |
| 201 | 7.80 | 33.940 | | | 100 | 9.00 | 33.40 | | | 25.89 | 214.1 | .256 |
| 251 | 7.20 | 34.009 | | | 150 | 8.31 | 33.77 | | | 26.29 | 177.1 | .353 |
| | | | | | 200 | 7.81 | 33.94 | | | 26.49 | 158.5 | .437 |
| | | | | | 250 | 7.21 | 34.01 | | | 26.64 | 145.7 | .513 |
| CH 25 43 20.5 N 124 55.5 W DATE 8 MAR 62 0805 GCT WIRE 0 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 3 KTS BAR 22 SWELL DIRECTION 28 H 5 T 5 CLOUD 6 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.87 | 32.694 | | | 0 | 9.88 | 32.70 | | | 25.20 | 278.0 | 0 |
| 10 | 9.86 | 32.693 | | | 10 | 9.86 | 32.70 | | | 25.21 | 278.1 | .028 |
| 30 | 9.84 | 32.689 | | | 20 | 9.85 | 32.69 | | | 25.20 | 278.6 | .056 |
| 50 | 9.82 | 32.694 | | | 30 | 9.84 | 32.69 | | | 25.21 | 278.4 | .083 |
| 100 | 9.56 | 33.222 | | | 50 | 9.82 | 32.70 | | | 25.21 | 278.1 | .139 |
| 150 | 8.60 | 33.720 | | | 75 | 9.75 | 32.91 | | | 25.39 | 261.4 | .207 |
| 200 | 7.92 | 33.900 | | | 100 | 9.56 | 33.23 | | | 25.67 | 235.7 | .269 |
| 305 | 6.57 | 34.004 | | | 150 | 8.60 | 33.72 | | | 26.21 | 185.0 | .374 |
| 404 | 5.63 | 34.124 | | | 200 | 7.93 | 33.91 | | | 26.45 | 162.6 | .461 |
| 504 | 5.26 | 34.177 | | | 250 | 7.25 | 33.97 | | | 26.60 | 149.0 | .539 |
| 605 | 4.76 | 34.233 | | | 300 | 6.63 | 34.00 | | | 26.71 | 139.0 | .611 |
| | | | | | 400 | 5.66 | 34.12 | | | 26.93 | 119.4 | .740 |
| | | | | | 500 | 5.27 | 34.18 | | | 27.02 | 111.0 | .855 |
| | | | | | 600 | 4.79 | 34.23 | | | 27.12 | 102.7 | .962 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 35 43 20.5 N 125 10.4 W DATE 8 MAR 62 1030 GCT WIRE 15 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 32 SWELL DIRECTION 30 H 3 T 7 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.72 | 32.786 | | | 0 | 9.72 | 32.79 | | | 25.30 | 268.9 | 0 |
| 9 | 9.72 | 32.782 | | | 10 | 9.72 | 32.78 | | | 25.30 | 269.6 | .027 |
| 29 | 9.62 | 32.780 | | | 20 | 9.67 | 32.78 | | | 25.30 | 269.0 | .054 |
| 48 | 9.62 | 32.791 | | | 30 | 9.62 | 32.78 | | | 25.31 | 268.5 | .081 |
| 96 | 9.22 | 33.263 | | | 50 | 9.61 | 32.81 | | | 25.33 | 266.8 | .134 |
| 194 | 8.24 | 33.872 | | | 75 | 9.43 | 33.02 | | | 25.53 | 248.3 | .199 |
| 290 | 7.04 | 33.985 | | | 100 | 9.18 | 33.30 | | | 25.78 | 224.6 | .258 |
| 387 | 5.64 | 33.982 | | | 150 | 8.71 | 33.66 | | | 26.14 | 191.5 | .362 |
| 486 | 5.19 | 34.070 | | | 200 | 8.17 | 33.89 | | | 26.40 | 167.4 | .451 |
| 581 | 5.04 | 34.198 | | | 250 | 7.57 | 33.97 | | | 26.56 | 153.2 | .532 |
| 677 | 4.72 | 34.252 | | | 300 | 6.88 | 33.98 | | | 26.66 | 143.7 | .606 |
| 781 | 4.42 | 34.315 | | | 400 | 5.54 | 33.99 | | | 26.84 | 127.7 | .741 |
| 978 | 3.83 | 34.387 | | | 500 | 5.16 | 34.09 | | | 26.96 | 116.1 | .863 |
| | | | | | 600 | 4.98 | 34.21 | | | 27.08 | 106.4 | .974 |
| | | | | | 700 | 4.65 | 34.27 | | | 27.16 | 99.1 | 1.077 |
| | | | | | 800 | 4.36 | 34.32 | | | 27.24 | 92.1 | 1.173 |
| | | | | | 1000 | 3.76 | 34.40 | | | 27.36 | 81.6 | 1.346 |
| CH 45 43 20.5 N 125 24.0 W DATE 8 MAR 62 1415 GCT WIRE 5 DRY 47.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 23 SWELL DIRECTION 30 H 2 T 7 CLOUD 6 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.78 | 32.771 | | | 0 | 9.78 | 32.78 | | | 25.28 | 270.9 | 0 |
| 10 | 9.63 | 32.766 | | | 10 | 9.63 | 32.77 | | | 25.30 | 269.1 | .027 |
| 30 | 9.61 | 32.774 | | | 20 | 9.62 | 32.77 | | | 25.30 | 269.2 | .054 |
| 55 | 9.63 | 32.775 | | | 30 | 9.61 | 32.78 | | | 25.31 | 268.5 | .081 |
| 99 | 8.34 | 33.377 | | | 50 | 9.63 | 32.77 | | | 25.30 | 269.3 | .135 |
| 149 | 8.72 | 33.703 | | | 75 | 9.05 | 33.02 | | | 25.59 | 242.8 | .199 |
| 199 | 8.35 | 33.880 | | | 100 | 8.34 | 33.39 | | | 25.98 | 205.5 | .255 |
| 299 | 7.25 | 33.974 | | | 150 | 8.72 | 33.71 | | | 26.18 | 188.0 | .353 |
| 409 | 6.33 | 34.091 | | | 200 | 8.34 | 33.88 | | | 26.37 | 170.3 | .443 |
| 508 | 5.48 | 34.130 | | | 250 | 7.80 | 33.95 | | | 26.50 | 158.4 | .525 |
| 609 | 4.98 | 34.239 | | | 300 | 7.24 | 33.98 | | | 26.60 | 149.4 | .602 |
| 819 | 4.20 | 34.358 | | | 400 | 6.40 | 34.08 | | | 26.80 | 131.7 | .742 |
| 1019 | 3.58 | 34.414 | | | 500 | 5.54 | 34.13 | | | 26.95 | 118.0 | .867 |
| | | | | | 600 | 5.02 | 34.23 | | | 27.09 | 105.6 | .979 |
| | | | | | 700 | 4.61 | 34.30 | | | 27.19 | 95.9 | 1.079 |
| | | | | | 800 | 4.26 | 34.35 | | | 27.27 | 88.9 | 1.172 |
| | | | | | 1000 | 3.63 | 34.41 | | | 27.38 | 78.9 | 1.339 |
| CH 65 43 20.5 N 125 51.4 W DATE 8 MAR 62 1800 GCT WIRE 0 DRY 48.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 4 KTS BAR 23 SWELL DIRECTION 31 H 4 T 7 CLOUD 6 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.64 | 32.751 | | | 0 | 9.64 | 32.76 | | | 25.29 | 270.2 | 0 |
| 10 | 9.64 | 32.748 | | | 10 | 9.64 | 32.75 | | | 25.28 | 270.6 | .027 |
| 30 | 9.59 | 32.744 | | | 20 | 9.62 | 32.75 | | | 25.28 | 270.8 | .054 |
| 50 | 9.59 | 32.819 | | | 30 | 9.59 | 32.75 | | | 25.29 | 270.4 | .081 |
| 100 | 9.34 | 33.414 | | | 50 | 9.59 | 32.82 | | | 25.35 | 265.2 | .135 |
| 155 | 8.62 | 33.710 | | | 75 | 9.51 | 33.10 | | | 25.58 | 243.9 | .198 |
| 206 | 7.82 | 33.934 | | | 100 | 9.34 | 33.42 | | | 25.85 | 218.1 | .256 |
| 306 | 6.41 | 33.962 | | | 150 | 8.70 | 33.69 | | | 26.17 | 188.9 | .358 |
| 411 | 5.45 | 34.042 | | | 200 | 7.92 | 33.91 | | | 26.46 | 161.9 | .445 |
| 511 | 5.00 | 34.150 | | | 250 | 7.16 | 33.95 | | | 26.59 | 149.5 | .523 |
| 611 | 4.44 | 34.215 | | | 300 | 6.48 | 33.96 | | | 26.70 | 140.3 | .596 |
| 812 | 4.16 | 34.361 | | | 400 | 5.53 | 34.03 | | | 26.87 | 124.3 | .728 |
| 1012 | 3.60 | 34.436 | | | 500 | 5.04 | 34.14 | | | 27.01 | 111.0 | .846 |
| | | | | | 600 | 4.50 | 34.21 | | | 27.13 | 100.9 | .951 |
| | | | | | 700 | 4.26 | 34.28 | | | 27.22 | 93.3 | 1.048 |
| | | | | | 800 | 4.16 | 34.35 | | | 27.28 | 87.6 | 1.139 |
| | | | | | 1000 | 3.64 | 34.43 | | | 27.40 | 77.3 | 1.304 |
| CH 85 43 20.5 N 126 18.6 W DATE 8 MAR 62 2202 GCT WIRE 15 DRY 47.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 6 KTS BAR 23 SWELL DIRECTION 31 H 5 T 7 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.17 | | | | 0 | 9.17 | 32.76 | | | 25.36 | 263.1 | 0 |
| 10 | 9.18 | 32.966 | | | 10 | 9.18 | 32.97 | | | 25.53 | 247.4 | .026 |
| 29 | 9.14 | 32.969 | | | 20 | 9.16 | 32.97 | | | 25.53 | 247.4 | .050 |
| 48 | 9.14 | 32.970 | | | 30 | 9.14 | 32.97 | | | 25.53 | 247.2 | .075 |
| 96 | 8.30 | 33.605 | | | 50 | 9.11 | 32.99 | | | 25.56 | 245.4 | .124 |
| 150 | 7.67 | 33.808 | | | 75 | 8.73 | 33.30 | | | 25.86 | 217.3 | .182 |
| 199 | 6.88 | 33.926 | | | 100 | 8.25 | 33.63 | | | 26.19 | 186.0 | .232 |
| 296 | 5.86 | 33.961 | | | 150 | 7.68 | 33.81 | | | 26.42 | 165.1 | .320 |
| 398 | 5.43 | 34.085 | | | 200 | 6.87 | 33.93 | | | 26.62 | 146.3 | .398 |
| 497 | 5.01 | 34.173 | | | 250 | 6.26 | 33.96 | | | 26.72 | 137.0 | .469 |
| 595 | 4.73 | 34.248 | | | 300 | 5.84 | 33.97 | | | 26.78 | 131.7 | .536 |
| 795 | 4.14 | 34.340 | | | 400 | 5.42 | 34.09 | | | 26.93 | 118.9 | .661 |
| 994 | 3.58 | 34.415 | | | 500 | 5.00 | 34.18 | | | 27.05 | 107.7 | .774 |
| | | | | | 600 | 4.72 | 34.25 | | | 27.14 | 100.3 | .878 |
| | | | | | 700 | 4.42 | 34.30 | | | 27.21 | 93.6 | .975 |
| | | | | | 800 | 4.13 | 34.34 | | | 27.28 | 88.0 | 1.066 |
| | | | | | 1000 | 3.56 | 34.42 | | | 27.39 | 77.6 | 1.232 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 5 43 20.2 N 124 29.3 W DATE 27 MAR 62 2035 GCT WIRE 5 DRY 47.0 WET 41.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 24 SWELL DIRECTION 30 H 3 T 8 CLOUD 8 AMT 2 WEATHER -- | | | | | | | | | | | | |
| | 0 | 9.66 | 30.780 | | | 0 | 9.66 | 30.78 | | 23.75 | 416.8 | 0 |
| | 10 | 9.39 | 32.548 | | | 10 | 9.39 | 32.55 | | 25.17 | 281.6 | .035 |
| | 20 | 9.39 | 32.604 | | | 20 | 9.39 | 32.61 | | 25.21 | 277.6 | .063 |
| | 30 | 9.37 | 32.626 | | | 30 | 9.38 | 32.63 | | 25.23 | 275.8 | .091 |
| | 50 | 9.39 | 32.636 | | | 50 | 9.39 | 32.64 | | 25.24 | 275.7 | .146 |
| | 75 | 9.14 | 32.851 | | | 75 | 9.14 | 32.86 | | 25.44 | 256.3 | .212 |
| CH 15 43 20.5 N 124 42.9 W DATE 27 MAR 62 2230 GCT WIRE 6 DRY 47.0 WET 41.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 5 KTS BAR 24 SWELL DIRECTION 30 H 5 T 8 CLOUD 8 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| | 0 | 9.52 | 32.711 | | | 0 | 9.52 | 32.72 | | 25.27 | 271.3 | 0 |
| | 10 | 9.46 | 32.718 | | | 10 | 9.46 | 32.72 | | 25.29 | 270.1 | .027 |
| | 30 | 9.38 | 32.831 | | | 20 | 9.41 | 32.77 | | 25.34 | 265.8 | .054 |
| | 50 | 9.36 | 32.857 | | | 30 | 9.38 | 32.84 | | 25.39 | 260.8 | .080 |
| | 100 | 8.57 | 33.641 | | | 50 | 9.36 | 32.86 | | 25.41 | 258.8 | .132 |
| | 150 | 7.97 | 33.912 | | | 75 | 9.02 | 33.22 | | 25.75 | 227.7 | .193 |
| | 201 | 7.39 | 34.006 | | | 100 | 8.57 | 33.65 | | 26.15 | 189.6 | .245 |
| | 251 | 6.92 | 34.035 | | | 150 | 7.97 | 33.92 | | 26.45 | 161.6 | .333 |
| | | | | | | 200 | 7.40 | 34.01 | | 26.61 | 147.7 | .410 |
| | | | | | | 250 | 6.93 | 34.03 | | 26.69 | 139.9 | .482 |
| CH 25 43 20.6 N 124 55.8 W DATE 28 MAR 62 0023 GCT WIRE 6 DRY 46.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 5 KTS BAR 24 SWELL DIRECTION 30 H 4 T 7 CLOUD 8 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| | 0 | 9.43 | 32.675 | | | 0 | 9.43 | 32.68 | | 25.26 | 272.6 | 0 |
| | 10 | 9.42 | 32.673 | | | 10 | 9.42 | 32.68 | | 25.26 | 272.8 | .027 |
| | 30 | 9.17 | 32.728 | | | 20 | 9.30 | 32.70 | | 25.30 | 269.6 | .054 |
| | 50 | 9.20 | 32.759 | | | 30 | 9.17 | 32.73 | | 25.34 | 265.2 | .081 |
| | 99 | 8.61 | 33.603 | | | 50 | 9.20 | 32.76 | | 25.36 | 263.7 | .134 |
| | 200 | 7.57 | 33.937 | | | 75 | 8.95 | 33.15 | | 25.70 | 231.7 | .196 |
| | 299 | 6.73 | 34.046 | | | 100 | 8.60 | 33.61 | | 26.12 | 192.5 | .249 |
| | 398 | 5.64 | 34.062 | | | 150 | 8.06 | 33.90 | | 26.43 | 163.8 | .338 |
| | 504 | 5.31 | 34.157 | | | 200 | 7.57 | 33.94 | | 26.53 | 154.9 | .418 |
| | 603 | 4.66 | 34.302 | | | 250 | 7.15 | 34.01 | | 26.65 | 144.6 | .492 |
| | | | | | | 300 | 6.72 | 34.05 | | 26.73 | 137.0 | .563 |
| | | | | | | 400 | 5.63 | 34.06 | | 26.89 | 123.3 | .693 |
| | | | | | | 500 | 5.32 | 34.15 | | 26.99 | 113.3 | .811 |
| | | | | | | 600 | 4.68 | 34.30 | | 27.18 | 96.5 | .916 |
| CH 35 43 20.4 N 125 10.4 W DATE 28 MAR 62 0614 GCT WIRE 20 DRY 45.0 WET 40.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 24 SWELL DIRECTION 27 H 4 T 7 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| | 0 | 9.14 | 32.642 | | | 0 | 9.14 | 32.65 | | 25.28 | 270.7 | 0 |
| | 9 | 9.16 | 32.638 | | | 10 | 9.16 | 32.64 | | 25.28 | 271.4 | .027 |
| | 28 | 9.12 | 32.738 | | | 20 | 9.15 | 32.69 | | 25.32 | 267.7 | .054 |
| | 47 | 9.04 | 32.752 | | | 30 | 9.11 | 32.74 | | 25.36 | 263.8 | .081 |
| | 94 | 8.64 | 33.526 | | | 50 | 9.02 | 32.79 | | 25.41 | 258.8 | .133 |
| | 141 | 7.86 | 33.789 | | | 75 | 8.84 | 33.18 | | 25.75 | 227.7 | .194 |
| | 190 | 7.56 | 34.012 | | | 100 | 8.54 | 33.58 | | 26.10 | 194.3 | .246 |
| | 291 | 6.54 | 34.028 | | | 150 | 7.79 | 33.84 | | 26.42 | 164.9 | .336 |
| | 387 | 5.86 | 34.044 | | | 200 | 7.46 | 34.03 | | 26.61 | 147.0 | .414 |
| | 485 | 5.22 | 34.125 | | | 250 | 6.97 | 34.02 | | 26.68 | 141.4 | .486 |
| | 586 | 4.71 | 34.185 | | | 300 | 6.47 | 34.03 | | 26.75 | 135.0 | .555 |
| | 779 | 3.90 | 34.302 | | | 400 | 5.77 | 34.05 | | 26.86 | 125.7 | .686 |
| | 973 | 3.54 | 34.417 | | | 500 | 5.14 | 34.13 | | 27.00 | 112.4 | .805 |
| | | | | | | 600 | 4.64 | 34.19 | | 27.10 | 103.7 | .913 |
| | | | | | | 700 | 4.19 | 34.25 | | 27.20 | 94.6 | 1.012 |
| | | | | | | 800 | 3.84 | 34.31 | | 27.28 | 86.7 | 1.102 |
| | | | | | | 1000 | 3.49 | 34.43 | | 27.41 | 75.6 | 1.264 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | $\Delta D$ |
| CH 65 | 43 20.5 N | 125 0.8 W | DATE 28 MAR 62 1445 GCT | | WIRE 0 | DRY 46.0 | WET 42.0 | | | | | |
| WIND DIRECTION 3 VEL 8 KTS | BAR 20 | SWELL DIRECTION 03 H 6 T 5 | CLOUD - AMT 0 | WEATHER 01 | | | | | | | | |
| 0 | 9.66 | 32.814 | | | 0 | 9.66 | 32.82 | | | 25.33 | 265.9 | 0 |
| 10 | 9.67 | 32.798 | | | 10 | 9.67 | 32.80 | | | 25.32 | 267.4 | .027 |
| 30 | 9.76 | 32.823 | | | 20 | 9.72 | 32.81 | | | 25.31 | 267.9 | .053 |
| 50 | 9.68 | 32.812 | | | 30 | 9.76 | 32.83 | | | 25.32 | 267.2 | .080 |
| 104 | 9.64 | 33.486 | | | 50 | 9.68 | 32.82 | | | 25.33 | 267.1 | .134 |
| 153 | 8.95 | 33.672 | | | 75 | 9.66 | 33.09 | | | 25.54 | 246.9 | .198 |
| 203 | 8.47 | 33.882 | | | 100 | 9.65 | 33.43 | | | 25.81 | 222.3 | .256 |
| 302 | 7.30 | 34.003 | | | 150 | 9.00 | 33.67 | | | 26.10 | 195.3 | .361 |
| 406 | 6.36 | 34.072 | | | 200 | 8.50 | 33.87 | | | 26.34 | 173.5 | .453 |
| 506 | 5.19 | 34.080 | | | 250 | 7.92 | 33.97 | | | 26.50 | 158.7 | .536 |
| 611 | 4.96 | 34.210 | | | 300 | 7.32 | 34.00 | | | 26.61 | 148.5 | .613 |
| 811 | 4.18 | 34.378 | | | 400 | 6.41 | 34.07 | | | 26.79 | 132.8 | .753 |
| 1011 | 3.68 | 34.425 | | | 500 | 5.25 | 34.08 | | | 26.94 | 118.0 | .879 |
| | | | | | 600 | 4.96 | 34.19 | | | 27.07 | 107.5 | .991 |
| | | | | | 700 | 4.62 | 34.30 | | | 27.19 | 96.3 | 1.093 |
| | | | | | 800 | 4.23 | 34.37 | | | 27.29 | 86.9 | 1.185 |
| | | | | | 1000 | 3.70 | 34.42 | | | 27.38 | 78.8 | 1.351 |
| NH 5 | 44 39.1 N | 124 10.6 W | DATE 2 APR 62 1844 GCT | | WIRE - | DRY 48.0 | WET 44.0 | | | | | |
| WIND DIRECTION 33 VEL 3 KTS | BAR 22 | SWELL DIRECTION 29 H 1 T 7 | CLOUD 0 AMT 10 | WEATHER 02 | | | | | | | | |
| 0 | 9.26 | 31.251 | | | 0 | 9.26 | 31.26 | | | 24.18 | 375.8 | 0 |
| 5 | | 31.431 | | | 10 | 8.89 | 31.96 | | | 24.78 | 318.4 | .035 |
| 10 | 8.89 | 31.952 | | | 20 | 8.90 | 32.26 | | | 25.02 | 295.9 | .065 |
| 15 | | 32.193 | | | 30 | 8.85 | 32.47 | | | 25.19 | 279.7 | .094 |
| 20 | 8.90 | 32.258 | | | 50 | 8.85 | 33.17 | | | 25.74 | 227.9 | .145 |
| 30 | 8.85 | 32.469 | | | 75 | 9.66 | 33.09 | | | 25.54 | 246.9 | .204 |
| 50 | 8.85 | 33.170 | | | 100 | 9.65 | 33.43 | | | 25.81 | 222.3 | .263 |
| NH 15 | 44 39.0 N | 124 24.6 W | DATE 2 APR 62 2045 GCT | | WIRE 2 | DRY 49.0 | WET 45.0 | | | | | |
| WIND DIRECTION 33 VEL 3 KTS | BAR 22 | SWELL DIRECTION 29 H 1 T 7 | CLOUD 8 AMT 3 | WEATHER 01 | | | | | | | | |
| 0 | 9.45 | 31.354 | .21 | | 0 | 9.45 | 31.36 | .22 | | 24.23 | 371.0 | 0 |
| 5 | | 31.354 | | | 10 | 9.46 | 32.01 | .38 | | 24.73 | 323.0 | .035 |
| 10 | 9.46 | 32.004 | .38 | | 20 | 9.18 | 32.31 | .54 | | 25.02 | 296.2 | .066 |
| 15 | | 32.229 | | | 30 | 8.86 | 32.34 | .67 | | 25.08 | 289.9 | .095 |
| 30 | 8.86 | 32.333 | .66 | | 50 | 8.81 | 32.41 | .67 | | 25.15 | 284.3 | .152 |
| 50 | 8.81 | 32.403 | .66 | | 75 | 9.00 | 32.77 | .85 | | 25.40 | 260.8 | .220 |
| 75 | 9.00 | 32.762 | .84 | | 100 | 9.65 | 33.43 | | | 25.81 | 222.3 | .281 |
| NH 25 | 44 39.3 N | 124 38.8 W | DATE 2 APR 62 2225 GCT | | WIRE 0 | DRY 48.0 | WET 44.0 | | | | | |
| WIND DIRECTION 32 VEL 3 KTS | BAR 22 | SWELL DIRECTION 29 H 1 T 8 | CLOUD 8 AMT 4 | WEATHER 03 | | | | | | | | |
| 0 | 9.44 | 31.546 | .72 | | 0 | 9.44 | 31.55 | .73 | | 24.38 | 356.6 | 0 |
| 5 | | 31.545 | | | 10 | 9.63 | 31.93 | .68 | | 24.65 | 331.2 | .034 |
| 10 | 9.62 | 31.927 | .67 | | 20 | 9.10 | 32.42 | .99 | | 25.11 | 286.9 | .065 |
| 15 | | 32.296 | | | 30 | 9.04 | 32.47 | .90 | | 25.16 | 282.6 | .094 |
| 20 | 9.10 | 32.419 | .98 | | 50 | 9.14 | 32.70 | 1.52 | | 25.32 | 267.6 | .149 |
| 30 | 9.04 | 32.468 | .90 | | 75 | 9.05 | 33.01 | 1.58 | | 25.58 | 243.2 | .213 |
| 50 | 9.14 | 32.694 | 1.52 | | 100 | 8.70 | 33.55 | 2.16 | | 26.06 | 198.6 | .268 |
| 75 | 9.05 | 33.010 | 1.58 | | 150 | 7.94 | 33.89 | 2.33 | | 26.43 | 163.4 | .358 |
| 100 | 8.70 | 33.546 | 2.16 | | 200 | 7.26 | 33.98 | 2.56 | | 26.60 | 147.9 | .436 |
| 150 | 7.94 | 33.882 | 2.32 | | 250 | 7.92 | 33.97 | | | 26.50 | 158.7 | .513 |
| 201 | 7.25 | 33.980 | 2.57 | | 300 | 7.32 | 34.00 | | | 26.61 | 148.5 | .589 |
| NH 35 | 44 39.1 N | 124 52.8 W | DATE 3 APR 62 0025 GCT | | WIRE 0 | DRY 48.0 | WET 44.0 | | | | | |
| WIND DIRECTION 32 VEL 3 KTS | BAR 22 | SWELL DIRECTION 29 H 2 T 8 | CLOUD 8 AMT 8 | WEATHER 03 | | | | | | | | |
| 0 | 9.35 | 31.600 | .67 | | 0 | 9.35 | 31.60 | .68 | | 24.44 | 351.2 | 0 |
| 5 | | 31.758 | | | 10 | 9.00 | 32.20 | 1.10 | | 24.95 | 302.2 | .033 |
| 10 | 9.00 | 32.192 | 1.09 | | 20 | 8.92 | 32.33 | .90 | | 25.07 | 290.9 | .062 |
| 15 | | 32.246 | | | 30 | 8.90 | 32.42 | .87 | | 25.15 | 284.0 | .091 |
| 20 | 8.92 | 32.330 | .90 | | 50 | 8.93 | 32.69 | 1.13 | | 25.35 | 264.8 | .146 |
| 30 | 8.90 | 32.420 | .86 | | 75 | 8.88 | 33.21 | 2.47 | | 25.76 | 226.5 | .207 |
| 50 | 8.93 | 32.689 | 1.12 | | 100 | 8.76 | 33.54 | 2.79 | | 26.04 | 199.8 | .261 |
| 75 | 8.88 | 33.200 | 2.47 | | 150 | 8.51 | 33.76 | 1.50 | | 26.25 | 180.7 | .356 |
| 99 | 8.76 | 33.537 | 2.81 | | 200 | 7.68 | 33.93 | 2.31 | | 26.51 | 157.1 | .440 |
| 148 | 8.53 | 33.767 | 1.47 | | 250 | 7.92 | 33.97 | | | 26.50 | 158.7 | .519 |
| 198 | 7.71 | 33.924 | 2.28 | | 300 | 7.32 | 34.00 | | | 26.61 | 148.5 | .596 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 45 44 39.1 N 125 7.9 W DATE 3 APR 62 0230 GCT WIRE 2 DRY 47.0 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 3 KTS BAR 22 SWELL DIRECTION 28 H 2 T 8 CLOUD 8 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.34 | 32.496 | | .77 | 0 | 9.34 | 32.50 | | .78 | 25.14 | 284.5 | 0 |
| 5 | | 32.525 | | | 10 | 9.06 | 32.57 | | .67 | 25.24 | 275.0 | .028 |
| 10 | 9.06 | 32.570 | | .66 | 20 | 9.15 | 32.65 | | .79 | 25.28 | 270.7 | .055 |
| 15 | | 32.589 | | | 30 | 8.98 | 32.69 | | .82 | 25.34 | 265.6 | .082 |
| 20 | 9.15 | 32.648 | | .78 | 50 | 9.00 | 32.77 | | 1.00 | 25.40 | 259.9 | .135 |
| 30 | 8.98 | 32.684 | | .81 | 75 | 8.86 | 33.23 | | 1.54 | 25.78 | 224.2 | .195 |
| 50 | 9.00 | 32.769 | | .99 | 100 | 8.82 | 33.55 | | 1.77 | 26.04 | 200.2 | .248 |
| 75 | 8.86 | 33.228 | | 1.53 | 150 | 8.31 | 33.79 | | 2.15 | 26.30 | 175.8 | .342 |
| 100 | 8.82 | 33.549 | | 1.77 | 200 | 7.61 | 33.91 | | 2.30 | 26.50 | 158.1 | .426 |
| 150 | 8.31 | 33.787 | | 2.14 | 250 | 6.95 | 33.97 | | 2.39 | 26.64 | 144.9 | .501 |
| 301 | 6.30 | 33.979 | | 2.41 | 300 | 6.31 | 33.98 | | 2.41 | 26.73 | 136.8 | .572 |
| 400 | 5.68 | 33.993 | | 2.59 | 400 | 5.69 | 34.00 | | 2.60 | 26.83 | 128.8 | .704 |
| 500 | 5.13 | 34.085 | | 2.75 | 500 | 5.13 | 34.08 | | 2.75 | 26.96 | 116.0 | .827 |
| NH 65 44 39.1 N 125 35.0 W DATE 3 APR 62 0550 GCT WIRE 0 DRY 46.0 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 1 KTS BAR 23 SWELL DIRECTION 29 H 2 T 8 CLOUD - AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.18 | 32.597 | | .64 | 0 | 9.18 | 32.60 | | .65 | 25.24 | 274.6 | 0 |
| 5 | | 32.605 | | | 10 | 9.17 | 32.60 | | .76 | 25.24 | 274.5 | .027 |
| 10 | 9.17 | 32.599 | | .75 | 20 | 9.09 | 32.77 | | .77 | 25.39 | 261.0 | .054 |
| 30 | 9.01 | 32.971 | | .79 | 30 | 9.01 | 32.98 | | .79 | 25.56 | 244.8 | .080 |
| 50 | 8.98 | 32.923 | | 1.05 | 50 | 8.98 | 32.93 | | 1.05 | 25.53 | 248.2 | .129 |
| 99 | 8.78 | 33.636 | | 1.60 | 75 | 8.89 | 33.25 | | 1.37 | 25.79 | 223.6 | .188 |
| 149 | 8.49 | 33.815 | | 1.65 | 100 | 8.77 | 33.64 | | 1.60 | 26.12 | 192.8 | .240 |
| 199 | 8.13 | 33.922 | | 1.76 | 150 | 8.48 | 33.82 | | 1.65 | 26.30 | 176.4 | .332 |
| 299 | 6.97 | 34.024 | | 1.88 | 200 | 8.12 | 33.92 | | 1.76 | 26.44 | 164.0 | .417 |
| 404 | 5.90 | 34.051 | | 2.08 | 250 | 7.57 | 33.99 | | 1.83 | 26.57 | 152.2 | .496 |
| 505 | 5.04 | 34.082 | | 2.12 | 300 | 6.96 | 34.02 | | 1.88 | 26.68 | 141.9 | .570 |
| 604 | 4.59 | 34.169 | | 2.32 | 400 | 5.94 | 34.05 | | 2.07 | 26.84 | 128.1 | .705 |
| 805 | 3.98 | 34.307 | | 2.38 | 500 | 5.08 | 34.08 | | 2.12 | 26.96 | 115.8 | .826 |
| 1004 | 3.53 | 34.415 | | 2.29 | 600 | 4.60 | 34.17 | | 2.31 | 27.09 | 105.4 | .937 |
| | | | | | 700 | 4.26 | 34.24 | | 2.35 | 27.18 | 96.4 | 1.038 |
| | | | | | 800 | 3.99 | 34.30 | | 2.38 | 27.26 | 89.2 | 1.131 |
| | | | | | 1000 | 3.54 | 34.41 | | 2.29 | 27.39 | 77.6 | 1.297 |
| NH 85 44 39.1 N 126 3.6 W DATE 3 APR 62 0914 GCT WIRE 2 DRY 50.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL C KTS BAR 23 SWELL DIRECTION N H T CLOUD 8 AMT 1 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.04 | 32.544 | | .81 | 0 | 9.04 | 32.57 | | .82 | 25.24 | 275.0 | 0 |
| 5 | | 32.560 | | | 10 | 9.03 | 32.56 | | .76 | 25.23 | 275.7 | .028 |
| 10 | 9.03 | 32.555 | | .76 | 20 | 9.03 | 32.54 | | .80 | 25.22 | 277.0 | .055 |
| 30 | | 32.541 | | .86 | 30 | 9.02 | 32.55 | | .87 | 25.22 | 276.8 | .083 |
| 50 | 9.02 | 32.603 | | .85 | 50 | 9.02 | 32.61 | | .86 | 25.27 | 272.5 | .138 |
| 100 | 7.96 | 33.466 | | 1.69 | 75 | 8.53 | 33.00 | | 1.22 | 25.65 | 236.4 | .201 |
| 150 | 7.39 | 33.830 | | 2.13 | 100 | 7.96 | 33.47 | | 1.70 | 26.11 | 193.8 | .255 |
| 200 | 6.72 | 33.920 | | 2.03 | 150 | 7.40 | 33.83 | | 2.14 | 26.47 | 159.5 | .343 |
| 300 | 5.63 | 33.966 | | 2.29 | 200 | 6.72 | 33.92 | | 2.03 | 26.64 | 144.6 | .419 |
| 405 | 5.10 | 34.035 | | 2.72 | 250 | 6.12 | 33.95 | | 2.11 | 26.74 | 135.4 | .489 |
| 506 | 4.82 | 34.160 | | 2.76 | 300 | 5.64 | 33.97 | | 2.29 | 26.81 | 128.7 | .555 |
| 605 | 4.50 | 34.218 | | 3.10 | 400 | 5.12 | 34.03 | | 2.70 | 26.92 | 119.4 | .679 |
| 806 | 3.91 | 34.332 | | 3.08 | 500 | 4.83 | 34.15 | | 2.76 | 27.05 | 107.5 | .793 |
| 1005 | 3.43 | 34.450 | | 3.00 | 600 | 4.52 | 34.22 | | 3.08 | 27.14 | 100.6 | .897 |
| | | | | | 700 | 4.21 | 34.27 | | 3.09 | 27.21 | 93.4 | .994 |
| | | | | | 800 | 3.93 | 34.33 | | 3.09 | 27.29 | 86.7 | 1.084 |
| | | | | | 1000 | 3.44 | 34.45 | | 3.00 | 27.43 | 74.0 | 1.244 |
| NH 105 44 39.1 N 126 30.9 W DATE 3 APR 62 1325 GCT WIRE 3 DRY 48.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 2 KTS BAR 23 SWELL DIRECTION 27 H 2 T 11 CLOUD 0 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.04 | 32.615 | | | 0 | 9.04 | 32.62 | | | 25.28 | 271.2 | 0 |
| 5 | | 32.615 | | | 10 | 8.95 | 32.61 | | | 25.29 | 270.4 | .027 |
| 10 | 8.95 | 32.610 | | | 20 | 8.86 | 32.60 | | | 25.29 | 269.9 | .054 |
| 30 | 8.79 | 32.603 | | | 30 | 8.79 | 32.61 | | | 25.31 | 268.8 | .081 |
| 49 | 8.76 | 32.606 | | | 50 | 8.75 | 32.62 | | | 25.32 | 267.8 | .135 |
| 99 | 7.92 | 33.337 | | | 75 | 8.38 | 32.94 | | | 25.63 | 239.0 | .198 |
| 148 | 7.36 | 33.817 | | | 100 | 7.91 | 33.35 | | | 26.02 | 202.0 | .253 |
| 199 | 6.78 | 33.926 | | | 150 | 7.34 | 33.83 | | | 26.47 | 159.4 | .343 |
| 299 | 5.86 | 33.980 | | | 200 | 6.77 | 33.93 | | | 26.63 | 145.0 | .420 |
| 403 | 5.27 | 34.077 | | | 250 | 6.27 | 33.96 | | | 26.73 | 136.5 | .490 |
| 503 | 4.86 | 34.152 | | | 300 | 5.85 | 33.98 | | | 26.79 | 130.7 | .557 |
| 603 | 4.52 | 34.224 | | | 400 | 5.28 | 34.07 | | | 26.94 | 118.2 | .681 |
| 803 | 4.00 | 34.344 | | | 500 | 4.87 | 34.15 | | | 27.04 | 108.1 | .794 |
| 1002 | 3.50 | 34.417 | | | 600 | 4.53 | 34.22 | | | 27.14 | 100.3 | .898 |
| | | | | | 700 | 4.25 | 34.29 | | | 27.22 | 92.8 | .995 |
| | | | | | 800 | 4.01 | 34.34 | | | 27.29 | 86.6 | 1.084 |
| | | | | | 1000 | 3.50 | 34.42 | | | 27.40 | 77.0 | 1.248 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 125 44 39.1 N 126 59.0 W DATE 3 APR 62 1725 GCT WIRE 0 DRY 48.5 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 4 KTS BAR 22 SWELL DIRECTION 27 H 5 T 13 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.12 | 32.588 | | .71 | 0 | 9.13 | 32.59 | | .72 | 25.24 | 274.4 | 0 |
| 5 | | 32.588 | | | 10 | 9.09 | 32.58 | | 1.01 | 25.24 | 274.8 | .027 |
| 10 | 9.09 | 32.578 | | 1.01 | 20 | 8.95 | 32.57 | | .97 | 25.25 | 273.9 | .055 |
| 30 | 8.80 | 32.568 | | .83 | 30 | 8.80 | 32.57 | | .84 | 25.28 | 271.6 | .082 |
| 50 | 8.72 | 32.577 | | .92 | 50 | 8.72 | 32.58 | | .93 | 25.30 | 270.0 | .136 |
| 100 | 8.02 | 33.292 | | 1.71 | 75 | 8.41 | 32.88 | | 1.29 | 25.58 | 243.3 | .200 |
| 150 | 7.42 | 33.812 | | 2.13 | 100 | 8.02 | 33.30 | | 1.71 | 25.96 | 207.6 | .257 |
| 200 | 6.98 | 33.903 | | 2.36 | 150 | 7.43 | 33.82 | | 2.14 | 26.45 | 161.3 | .349 |
| 300 | 5.86 | 33.987 | | 3.02 | 200 | 6.98 | 33.91 | | 2.36 | 26.59 | 149.3 | .427 |
| 405 | 5.20 | 34.081 | | 2.94 | 250 | 6.41 | 33.95 | | 2.72 | 26.76 | 139.1 | .499 |
| 505 | 4.72 | 34.139 | | 3.18 | 300 | 5.86 | 33.99 | | 3.03 | 26.80 | 130.0 | .566 |
| 605 | 4.45 | 34.219 | | 3.08 | 400 | 5.22 | 34.08 | | 2.95 | 26.94 | 117.3 | .690 |
| 805 | 3.86 | 34.357 | | 3.18 | 500 | 4.74 | 34.14 | | 3.17 | 27.05 | 107.6 | .802 |
| 1004 | 3.38 | 34.424 | | 3.09 | 600 | 4.46 | 34.21 | | 3.09 | 27.14 | 100.0 | .906 |
| | | | | | 700 | 4.17 | 34.29 | | 3.11 | 27.23 | 91.5 | 1.001 |
| | | | | | 800 | 3.87 | 34.35 | | 3.18 | 27.31 | 84.2 | 1.089 |
| | | | | | 1000 | 3.39 | 34.42 | | 3.09 | 27.42 | 75.1 | 1.248 |
| NH 145 44 39.0 N 127 27.0 W DATE 3 APR 62 2045 GCT WIRE 4 DRY 50.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 5 KTS BAR 22 SWELL DIRECTION 25 H 3 T 11 CLOUD 7 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.28 | 32.583 | | 1.13 | 0 | 9.28 | 32.59 | | 1.14 | 25.21 | 277.2 | 0 |
| 5 | | 32.576 | | | 10 | 9.24 | 32.58 | | .89 | 25.22 | 277.0 | .028 |
| 10 | 9.24 | 32.579 | | .88 | 20 | 9.03 | 32.58 | | .87 | 25.25 | 274.3 | .055 |
| 30 | 8.81 | 32.575 | | .86 | 30 | 8.81 | 32.58 | | .87 | 25.28 | 271.2 | .083 |
| 49 | 8.78 | 32.574 | | .85 | 50 | 8.77 | 32.58 | | .86 | 25.29 | 270.6 | .137 |
| 99 | 7.98 | 33.218 | | 1.68 | 75 | 8.40 | 32.86 | | 1.24 | 25.56 | 245.3 | .201 |
| 148 | 7.58 | 33.754 | | 2.01 | 100 | 7.97 | 33.23 | | 1.69 | 25.92 | 211.7 | .258 |
| 198 | 6.98 | 33.809 | | 2.06 | 150 | 7.56 | 33.76 | | 2.01 | 26.39 | 167.0 | .353 |
| 297 | 5.90 | 33.970 | | 2.34 | 200 | 6.96 | 33.90 | | 2.06 | 26.59 | 149.4 | .432 |
| 401 | 5.28 | 34.036 | | 2.63 | 250 | 6.37 | 33.95 | | 2.19 | 26.71 | 138.6 | .504 |
| 502 | 4.80 | 34.123 | | 2.72 | 300 | 5.88 | 33.97 | | 2.35 | 26.78 | 131.7 | .572 |
| 601 | 4.52 | 34.214 | | 2.86 | 400 | 5.28 | 34.04 | | 2.63 | 26.90 | 121.1 | .698 |
| 802 | 3.96 | 34.330 | | 2.97 | 500 | 4.81 | 34.12 | | 2.72 | 27.03 | 109.5 | .813 |
| 1001 | 3.44 | 34.417 | | 2.83 | 600 | 4.52 | 34.21 | | 2.86 | 27.13 | 100.8 | .918 |
| | | | | | 700 | 4.24 | 34.28 | | 2.94 | 27.21 | 93.3 | 1.015 |
| | | | | | 800 | 3.97 | 34.33 | | 2.97 | 27.28 | 87.1 | 1.105 |
| | | | | | 1000 | 3.44 | 34.42 | | 2.83 | 27.41 | 76.2 | 1.269 |
| NH 165 44 39.1 N 127 55.0 W DATE 4 APR 62 0040 GCT WIRE 19 DRY 50.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 4 KTS BAR 21 SWELL DIRECTION 26 H 6 T 11 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.28 | 32.572 | | .61 | 0 | 9.28 | 32.58 | | .62 | 25.20 | 278.0 | 0 |
| 5 | | 32.566 | | | 10 | 9.53 | 32.57 | | .60 | 25.16 | 282.3 | .028 |
| 9 | 9.55 | 32.568 | | .60 | 20 | 9.20 | 32.59 | | .60 | 25.23 | 276.3 | .056 |
| 29 | 8.78 | 32.599 | | .62 | 30 | 8.77 | 32.60 | | .62 | 25.30 | 269.3 | .083 |
| 48 | 8.72 | 32.569 | | .71 | 50 | 8.70 | 32.58 | | .73 | 25.30 | 269.9 | .137 |
| 97 | 8.14 | 33.067 | | 1.23 | 75 | 8.44 | 32.78 | | .98 | 25.49 | 251.6 | .202 |
| 145 | 7.57 | 33.761 | | 1.52 | 100 | 8.10 | 33.12 | | 1.25 | 25.81 | 222.2 | .262 |
| 196 | 7.01 | 33.903 | | 1.87 | 150 | 7.51 | 33.79 | | 1.56 | 26.42 | 164.5 | .358 |
| 291 | 6.08 | 33.972 | | 2.06 | 200 | 6.97 | 33.91 | | 1.88 | 26.59 | 149.0 | .437 |
| 392 | 5.35 | 34.036 | | 2.35 | 250 | 6.46 | 33.96 | | 2.01 | 26.70 | 139.3 | .509 |
| 491 | 4.93 | 34.127 | | 2.49 | 300 | 6.00 | 33.98 | | 2.09 | 26.77 | 132.8 | .577 |
| 588 | 4.64 | 34.194 | | 2.59 | 400 | 5.31 | 34.04 | | 2.36 | 26.91 | 120.8 | .703 |
| 785 | 4.05 | 34.307 | | | 500 | 4.90 | 34.13 | | 2.50 | 27.03 | 109.6 | .819 |
| 983 | 3.54 | 34.397 | | 2.49 | 600 | 4.60 | 34.20 | | 2.59 | 27.11 | 102.6 | .925 |
| | | | | | 700 | 4.30 | 34.26 | | 2.56 | 27.19 | 95.3 | 1.024 |
| | | | | | 800 | 4.01 | 34.31 | | 2.54 | 27.27 | 88.6 | 1.115 |
| | | | | | 1000 | 3.50 | 34.40 | | 2.49 | 27.39 | 77.7 | 1.282 |
| ANH169 45 11.0 N 127 58.0 W DATE 4 APR 62 0430 GCT WIRE 7 DRY 49.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 4 KTS BAR 21 SWELL DIRECTION 27 H 5 T 8 CLOUD 0 AMT 10 WEATHER 43 | | | | | | | | | | | | |
| 0 | 8.98 | 32.613 | | .34 | 0 | 8.98 | 32.62 | | .34 | 25.28 | 270.5 | 0 |
| 5 | | 32.614 | | | 10 | 8.96 | 32.58 | | .34 | 25.26 | 272.8 | .027 |
| 10 | 8.96 | 32.579 | | .34 | 20 | 8.83 | 32.58 | | .39 | 25.28 | 271.1 | .054 |
| 30 | 8.68 | 32.584 | | .45 | 30 | 8.68 | 32.59 | | .45 | 25.31 | 268.6 | .081 |
| 49 | 8.62 | 32.594 | | .50 | 50 | 8.61 | 32.60 | | .51 | 25.33 | 267.2 | .135 |
| 98 | 8.20 | 32.978 | | .86 | 75 | 8.44 | 32.75 | | .66 | 25.47 | 254.1 | .200 |
| 148 | 7.48 | 33.689 | | 1.33 | 100 | 8.17 | 33.01 | | .88 | 25.71 | 231.1 | .261 |
| 198 | 7.08 | 33.910 | | 1.56 | 150 | 7.46 | 33.71 | | 1.34 | 26.37 | 169.5 | .361 |
| 297 | 6.12 | 33.974 | | 1.83 | 200 | 7.06 | 33.91 | | 1.57 | 26.58 | 149.9 | .441 |
| 401 | 5.38 | 34.044 | | 2.00 | 250 | 6.57 | 33.97 | | 1.72 | 26.69 | 139.8 | .513 |
| 502 | 4.91 | 34.118 | | 2.14 | 300 | 6.09 | 33.98 | | 1.84 | 26.76 | 134.1 | .581 |
| 601 | 4.58 | 34.193 | | 2.25 | 400 | 5.39 | 34.04 | | 2.00 | 26.90 | 121.7 | .709 |
| 802 | 4.04 | 34.323 | | 2.54 | 500 | 4.92 | 34.12 | | 2.14 | 27.01 | 111.1 | .826 |
| 1000 | 3.56 | 34.402 | | 2.36 | 600 | 4.58 | 34.19 | | 2.25 | 27.11 | 103.1 | .933 |
| | | | | | 700 | 4.30 | 34.26 | | 2.42 | 27.20 | 95.2 | 1.032 |
| | | | | | 800 | 4.04 | 34.32 | | 2.54 | 27.27 | 88.5 | 1.124 |
| | | | | | 1000 | 3.56 | 34.40 | | 2.36 | 27.38 | 78.7 | 1.291 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| ANH173 48 42.9 N 128 1.8 W DATE 4 APR 62 1035 GCT WIRE 0 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 3 KTS BAR 22 SWELL DIRECTION 27 H 2 T 8 CLOUD 0 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.78 | 32.609 | | .60 | 0 | 8.78 | 32.61 | | .60 | 25.31 | 267.8 | 0 |
| 5 | | 32.583 | | | 10 | 8.75 | 32.59 | | .60 | 25.29 | 269.6 | .027 |
| 10 | 8.75 | 32.581 | | .59 | 20 | 8.59 | 32.58 | | .61 | 25.32 | 267.6 | .054 |
| 30 | 8.43 | 32.584 | | .63 | 30 | 8.43 | 32.59 | | .63 | 25.35 | 265.0 | .080 |
| 50 | 8.50 | 32.585 | | .54 | 50 | 8.50 | 32.59 | | .54 | 25.34 | 266.2 | .133 |
| 100 | 7.62 | 33.043 | | 1.01 | 75 | 8.12 | 32.76 | | .73 | 25.52 | 248.6 | .198 |
| 150 | 7.26 | 33.733 | | 1.27 | 100 | 7.63 | 33.05 | | 1.01 | 25.82 | 220.5 | .256 |
| 201 | 6.70 | 33.898 | | 1.51 | 150 | 7.27 | 33.74 | | 1.27 | 26.42 | 165.0 | .353 |
| 301 | 5.56 | 33.965 | | 1.91 | 200 | 6.71 | 33.90 | | 1.51 | 26.62 | 146.4 | .431 |
| 405 | 4.76 | 34.021 | | 2.11 | 250 | 6.12 | 33.95 | | 1.72 | 26.74 | 135.5 | .501 |
| 506 | 4.32 | 34.086 | | 2.22 | 300 | 5.57 | 33.96 | | 1.91 | 26.81 | 128.5 | .567 |
| 606 | 4.09 | 34.147 | | 2.32 | 400 | 4.79 | 34.02 | | 2.10 | 26.95 | 116.5 | .689 |
| 807 | 3.63 | 34.279 | | 2.39 | 500 | 4.34 | 34.08 | | 2.21 | 27.05 | 107.0 | .801 |
| 1006 | 3.28 | 34.392 | | 2.36 | 600 | 4.10 | 34.14 | | 2.31 | 27.12 | 101.2 | .905 |
| | | | | | 700 | 3.87 | 34.21 | | 2.37 | 27.20 | 94.2 | 1.003 |
| | | | | | 800 | 3.65 | 34.27 | | 2.39 | 27.27 | 87.5 | 1.094 |
| | | | | | 1000 | 3.29 | 34.39 | | 2.36 | 27.40 | 76.6 | 1.258 |
| AH 165 46 14.5 N 128 4.0 W DATE 4 APR 62 1540 GCT WIRE 0 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL C KTS BAR 23 SWELL DIRECTION 27 H 8 T 1 CLOUD 0 AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.78 | 32.563 | | .59 | 0 | 8.78 | 32.57 | | .60 | 25.28 | 271.2 | 0 |
| 5 | | 32.561 | | | 10 | 8.78 | 32.57 | | .59 | 25.28 | 271.3 | .027 |
| 10 | 8.78 | 32.564 | | .58 | 20 | 8.76 | 32.56 | | .57 | 25.28 | 271.5 | .054 |
| 30 | 8.74 | 32.560 | | .56 | 30 | 8.74 | 32.56 | | .57 | 25.28 | 271.3 | .081 |
| 50 | 8.38 | 32.562 | | .55 | 50 | 8.38 | 32.57 | | .56 | 25.34 | 266.2 | .135 |
| 100 | 7.85 | 33.047 | | 1.13 | 75 | 8.07 | 32.75 | | .79 | 25.53 | 248.3 | .199 |
| 150 | 7.48 | 33.666 | | 1.70 | 100 | 7.85 | 33.05 | | 1.14 | 25.79 | 223.4 | .258 |
| 200 | 6.86 | 33.899 | | 1.86 | 150 | 7.48 | 33.67 | | 1.71 | 26.33 | 173.0 | .357 |
| 300 | 5.54 | 33.959 | | 2.32 | 200 | 6.86 | 33.90 | | 1.86 | 26.60 | 148.0 | .438 |
| 405 | 4.87 | 34.041 | | 2.57 | 250 | 6.17 | 33.93 | | 2.09 | 26.71 | 137.8 | .509 |
| 506 | 4.34 | 34.108 | | 2.68 | 300 | 5.55 | 33.96 | | 2.33 | 26.82 | 128.2 | .576 |
| 606 | 4.20 | 34.196 | | 2.65 | 400 | 4.89 | 34.04 | | 2.56 | 26.95 | 116.3 | .698 |
| 806 | 3.75 | 34.334 | | 2.95 | 500 | 4.36 | 34.10 | | 2.68 | 27.06 | 105.7 | .809 |
| 1006 | 3.26 | 34.420 | | 2.95 | 600 | 4.20 | 34.19 | | 2.65 | 27.15 | 98.8 | .911 |
| | | | | | 700 | 4.01 | 34.27 | | 2.78 | 27.23 | 91.4 | 1.006 |
| | | | | | 800 | 3.77 | 34.33 | | 2.94 | 27.30 | 84.7 | 1.094 |
| | | | | | 1000 | 3.28 | 34.42 | | 2.95 | 27.42 | 74.2 | 1.253 |
| AH 145 46 14.4 N 127 35.0 W DATE 4 APR 62 1930 GCT WIRE 4 DRY 48.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 2 KTS BAR 24 SWELL DIRECTION 26 H 6 T 12 CLOUD 6 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 8.92 | 32.580 | | .88 | 0 | 8.92 | 32.58 | | .89 | 25.27 | 272.0 | 0 |
| 5 | | 32.570 | | | 10 | 8.66 | 32.57 | | .90 | 25.30 | 269.1 | .027 |
| 10 | 8.66 | 32.570 | | .89 | 20 | 8.37 | 32.58 | | .90 | 25.35 | 264.8 | .054 |
| 30 | 8.15 | 32.588 | | .93 | 30 | 8.15 | 32.59 | | .93 | 25.39 | 260.8 | .080 |
| 50 | 8.15 | 32.587 | | 1.03 | 50 | 8.15 | 32.59 | | 1.04 | 25.39 | 261.1 | .132 |
| 100 | 7.56 | 33.081 | | 1.50 | 75 | 7.88 | 32.78 | | 1.25 | 25.58 | 243.6 | .195 |
| 150 | 7.42 | 33.727 | | 1.88 | 100 | 7.57 | 33.09 | | 1.51 | 25.86 | 216.9 | .253 |
| 200 | 6.82 | 33.897 | | 2.06 | 150 | 7.43 | 33.73 | | 1.89 | 26.39 | 167.6 | .349 |
| 300 | 5.50 | 33.950 | | 2.42 | 200 | 6.82 | 33.90 | | 2.07 | 26.60 | 147.6 | .428 |
| 405 | 4.86 | 34.033 | | 2.75 | 250 | 6.13 | 33.95 | | 2.24 | 26.73 | 136.0 | .499 |
| 505 | 4.58 | 34.121 | | 2.89 | 300 | 5.51 | 33.96 | | 2.42 | 26.82 | 128.4 | .565 |
| 605 | 4.21 | 34.184 | | 2.93 | 400 | 4.88 | 34.03 | | 2.74 | 26.95 | 116.8 | .687 |
| 805 | 3.80 | 34.328 | | 2.98 | 500 | 4.59 | 34.12 | | 2.89 | 27.05 | 107.3 | .799 |
| 1005 | 3.29 | 34.427 | | 2.96 | 600 | 4.23 | 34.18 | | 2.93 | 27.14 | 99.8 | .903 |
| | | | | | 700 | 3.99 | 34.25 | | 2.96 | 27.22 | 92.3 | .999 |
| | | | | | 800 | 3.81 | 34.32 | | 2.98 | 27.30 | 85.6 | 1.088 |
| | | | | | 1000 | 3.30 | 34.43 | | 2.96 | 27.43 | 74.0 | 1.247 |
| AH 125 46 14.4 N 127 6.1 W DATE 4 APR 62 2300 GCT WIRE 4 DRY 53.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL C KTS BAR 24 SWELL DIRECTION 27 H 8 T 11 CLOUD 1 AMT 4 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.48 | 32.550 | | .85 | 0 | 9.48 | 32.55 | | .86 | 25.16 | 282.7 | 0 |
| 5 | | 32.553 | | | 10 | 8.80 | 32.56 | | 1.01 | 25.27 | 271.9 | .028 |
| 10 | 8.80 | 32.560 | | 1.01 | 20 | 8.73 | 32.56 | | .95 | 25.28 | 271.6 | .055 |
| 30 | 8.67 | 32.555 | | .85 | 30 | 8.67 | 32.56 | | .86 | 25.29 | 270.6 | .082 |
| 50 | 8.37 | 32.544 | | .95 | 50 | 8.38 | 32.55 | | .96 | 25.32 | 267.4 | .136 |
| 100 | 7.65 | 33.078 | | 1.86 | 75 | 7.98 | 32.75 | | 1.37 | 25.54 | 247.0 | .200 |
| 150 | 7.42 | 33.752 | | 2.31 | 100 | 7.66 | 33.08 | | 1.86 | 25.85 | 218.3 | .258 |
| 200 | 6.98 | 33.890 | | 2.27 | 150 | 7.43 | 33.76 | | 2.32 | 26.41 | 165.8 | .354 |
| 300 | 5.70 | 33.967 | | 2.98 | 200 | 6.98 | 33.89 | | 2.27 | 26.58 | 150.3 | .433 |
| 404 | 5.08 | 34.033 | | 2.95 | 250 | 6.33 | 33.95 | | 2.60 | 26.70 | 138.6 | .505 |
| 505 | 4.67 | 34.116 | | 3.08 | 300 | 5.70 | 33.97 | | 2.98 | 26.80 | 129.5 | .572 |
| 604 | 4.34 | 34.190 | | 3.29 | 400 | 5.10 | 34.03 | | 2.96 | 26.92 | 119.2 | .697 |
| 804 | 3.83 | 34.317 | | 3.20 | 500 | 4.69 | 34.11 | | 3.07 | 27.03 | 108.8 | .811 |
| 1004 | 3.38 | 34.405 | | 3.35 | 600 | 4.35 | 34.19 | | 3.28 | 27.13 | 100.8 | .915 |
| | | | | | 700 | 4.08 | 34.26 | | 3.27 | 27.21 | 93.2 | 1.012 |
| | | | | | 800 | 3.84 | 34.31 | | 3.20 | 27.28 | 86.7 | 1.102 |
| | | | | | 1000 | 3.39 | 34.40 | | 3.34 | 27.40 | 76.6 | 1.265 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 105 46 14.5 N 126 37.0 W DATE 5 APR 62 0304 GCT WIRE - DRY 47.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 2 KTS BAR 25 SWELL DIRECTION 26 H 8 T 10 CLOUD 8 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.20 | 32.561 | | .66 | 0 | 9.20 | 32.56 | | .67 | 25.20 | 278.4 | 0 |
| 5 | | 32.549 | | | 10 | 8.80 | 32.55 | | .89 | 25.26 | 273.1 | .028 |
| 10 | 8.80 | 32.544 | | .88 | 20 | 8.55 | 32.54 | | .87 | 25.29 | 270.0 | .055 |
| 30 | 8.42 | 32.543 | | .79 | 30 | 8.42 | 32.55 | | .79 | 25.31 | 267.9 | .082 |
| 50 | 8.37 | 32.543 | | .84 | 50 | 8.38 | 32.55 | | .85 | 25.32 | 267.5 | .135 |
| 100 | 7.92 | 33.330 | | 1.82 | 75 | 8.18 | 32.89 | | 1.29 | 25.62 | 239.9 | .199 |
| 150 | 7.30 | 33.789 | | 2.16 | 100 | 7.93 | 33.33 | | 1.83 | 26.00 | 203.3 | .254 |
| 200 | 6.72 | 33.897 | | 2.14 | 150 | 7.31 | 33.79 | | 2.16 | 26.45 | 161.4 | .345 |
| 300 | 5.68 | 33.960 | | 2.70 | 200 | 6.72 | 33.90 | | 2.15 | 26.62 | 146.3 | .422 |
| 405 | 5.14 | 34.039 | | 2.96 | 250 | 6.16 | 33.94 | | 2.39 | 26.72 | 136.8 | .493 |
| 506 | 4.74 | 34.128 | | 3.08 | 300 | 5.69 | 33.96 | | 2.71 | 26.80 | 129.8 | .559 |
| 605 | 4.36 | 34.189 | | 3.09 | 400 | 5.16 | 34.03 | | 2.95 | 26.92 | 119.6 | .684 |
| 806 | 3.85 | 34.314 | | 3.34 | 500 | 4.76 | 34.12 | | 3.08 | 27.03 | 108.8 | .798 |
| 1006 | 3.44 | 34.411 | | 3.57 | 600 | 4.38 | 34.19 | | 3.09 | 27.13 | 101.2 | .903 |
| | | | | | 700 | 4.09 | 34.25 | | 3.19 | 27.21 | 93.7 | 1.001 |
| | | | | | 800 | 3.86 | 34.31 | | 3.33 | 27.28 | 87.3 | 1.091 |
| | | | | | 1000 | 3.45 | 34.41 | | 3.56 | 27.40 | 76.9 | 1.255 |
| AH 85 46 14.4 N 126 9.0 W DATE 5 APR 62 0645 GCT WIRE 0 DRY 49.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL C KTS BAR 26 SWELL DIRECTION 27 H 4 T - CLOUD 6 AMT 5 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.50 | 32.631 | | .54 | 0 | 9.50 | 32.64 | | .54 | 25.22 | 277.0 | 0 |
| 5 | | 32.632 | | | 10 | 9.26 | 32.63 | | .67 | 25.25 | 273.5 | .028 |
| 10 | 9.26 | 32.630 | | .66 | 20 | 9.10 | 32.65 | | .64 | 25.29 | 270.1 | .055 |
| 30 | 9.00 | 32.677 | | .63 | 30 | 9.00 | 32.68 | | .63 | 25.33 | 266.4 | .082 |
| 51 | 8.88 | 32.692 | | .56 | 50 | 8.88 | 32.69 | | .56 | 25.36 | 264.4 | .135 |
| 100 | 8.38 | 33.567 | | 1.70 | 75 | 8.67 | 33.08 | | 1.06 | 25.70 | 232.3 | .197 |
| 150 | 7.66 | 33.854 | | 1.89 | 100 | 8.38 | 33.57 | | 1.71 | 26.12 | 192.3 | .250 |
| 200 | 7.02 | 33.922 | | 1.95 | 150 | 7.67 | 33.86 | | 1.90 | 26.45 | 161.5 | .338 |
| 300 | 5.93 | 33.977 | | 2.29 | 200 | 7.03 | 33.93 | | 1.96 | 26.60 | 148.4 | .416 |
| 405 | 5.23 | 34.050 | | 2.46 | 250 | 6.43 | 33.96 | | 2.11 | 26.70 | 139.2 | .488 |
| 506 | 4.54 | 34.099 | | 2.70 | 300 | 5.94 | 33.98 | | 2.29 | 26.78 | 131.6 | .555 |
| 605 | 4.54 | 34.226 | | 2.81 | 400 | 5.26 | 34.05 | | 2.45 | 26.92 | 119.9 | .681 |
| 805 | 4.01 | 34.322 | | 2.77 | 500 | 4.57 | 34.10 | | 2.69 | 27.03 | 108.7 | .795 |
| 1002 | 3.46 | 34.398 | | 2.81 | 600 | 4.54 | 34.22 | | 2.81 | 27.14 | 100.6 | .900 |
| | | | | | 700 | 4.33 | 34.29 | | 2.81 | 27.21 | 93.8 | .997 |
| | | | | | 800 | 4.03 | 34.32 | | 2.77 | 27.27 | 88.4 | 1.088 |
| | | | | | 1000 | 3.47 | 34.40 | | 2.81 | 27.39 | 77.9 | 1.254 |
| AH 65 46 14.4 N 125 39.6 W DATE 5 APR 62 1044 GCT WIRE 10 DRY 49.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 5 VEL 2 KTS BAR 27 SWELL DIRECTION 27 H 4 T 10 CLOUD 0 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.25 | 32.638 | | .77 | 0 | 9.25 | 32.64 | | .78 | 25.26 | 272.6 | 0 |
| 5 | | 32.638 | | | 10 | 9.20 | 32.65 | | .76 | 25.27 | 271.7 | .027 |
| 10 | 9.20 | 32.642 | | .76 | 20 | 9.02 | 32.65 | | .75 | 25.31 | 268.7 | .054 |
| 30 | 8.84 | 32.667 | | .74 | 30 | 8.84 | 32.67 | | .75 | 25.35 | 264.8 | .081 |
| 49 | 8.79 | 32.693 | | .98 | 50 | 8.78 | 32.71 | | 1.00 | 25.39 | 261.5 | .134 |
| 98 | 8.24 | 33.580 | | 1.78 | 75 | 8.55 | 33.13 | | 1.42 | 25.75 | 227.2 | .195 |
| 147 | 7.50 | 33.843 | | 2.04 | 100 | 8.21 | 33.60 | | 1.80 | 26.17 | 187.8 | .246 |
| 196 | 7.03 | 33.920 | | 2.12 | 150 | 7.47 | 33.85 | | 2.05 | 26.48 | 159.4 | .333 |
| 294 | 6.14 | 34.000 | | 2.64 | 200 | 6.99 | 33.92 | | 2.14 | 26.60 | 148.1 | .410 |
| 397 | 5.52 | 34.063 | | 2.64 | 250 | 6.52 | 33.97 | | 2.41 | 26.70 | 139.1 | .482 |
| 496 | 4.74 | 34.103 | | 3.05 | 300 | 6.10 | 34.00 | | 2.64 | 26.78 | 132.1 | .550 |
| 595 | 4.48 | 34.186 | | | 400 | 5.49 | 34.06 | | 2.65 | 26.90 | 121.5 | .676 |
| 795 | 3.88 | 34.341 | | 2.89 | 500 | 4.72 | 34.11 | | 3.05 | 27.02 | 109.7 | .792 |
| 994 | 3.52 | 34.408 | | 3.04 | 600 | 4.46 | 34.19 | | 2.99 | 27.12 | 101.8 | .898 |
| | | | | | 700 | 4.16 | 34.27 | | 3.03 | 27.22 | 92.7 | .995 |
| | | | | | 800 | 3.87 | 34.34 | | 2.89 | 27.30 | 84.9 | 1.084 |
| | | | | | 1000 | 3.51 | 34.41 | | 3.04 | 27.39 | 77.5 | 1.246 |
| AH 45 46 14.4 N 125 10.6 W DATE 5 APR 62 1445 GCT WIRE 3 DRY 47.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 3 KTS BAR 29 SWELL DIRECTION 27 H 6 T 9 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.29 | 32.417 | | .59 | 0 | 9.29 | 32.42 | | .60 | 25.08 | 289.7 | 0 |
| 5 | | 32.472 | | | 10 | 9.21 | 32.50 | | .65 | 25.16 | 282.4 | .029 |
| 10 | 9.21 | 32.500 | | .64 | 20 | 9.06 | 32.57 | | .73 | 25.24 | 275.3 | .056 |
| 30 | 8.92 | 32.642 | | .82 | 30 | 8.92 | 32.65 | | .83 | 25.32 | 267.9 | .084 |
| 50 | 8.86 | 32.709 | | .87 | 50 | 8.86 | 32.71 | | .88 | 25.38 | 262.3 | .137 |
| 100 | 8.44 | 33.466 | | 1.72 | 75 | 8.70 | 33.06 | | 1.27 | 25.67 | 234.6 | .199 |
| 150 | 7.65 | 33.845 | | 2.01 | 100 | 8.44 | 33.47 | | 1.73 | 26.03 | 200.7 | .253 |
| 200 | 6.88 | 33.965 | | 2.08 | 150 | 7.66 | 33.85 | | 2.02 | 26.45 | 162.0 | .344 |
| 300 | 5.96 | 33.980 | | 2.19 | 200 | 6.89 | 33.97 | | 2.08 | 26.65 | 143.4 | .420 |
| 404 | 5.20 | 34.052 | | 2.74 | 250 | 6.36 | 33.98 | | 2.11 | 26.73 | 136.6 | .490 |
| 505 | 4.94 | 34.127 | | 2.88 | 300 | 5.96 | 34.00 | | 2.20 | 26.79 | 131.0 | .557 |
| 605 | 4.58 | 34.209 | | 2.70 | 400 | 5.22 | 34.05 | | 2.72 | 26.92 | 119.3 | .682 |
| 805 | 3.94 | 34.329 | | 3.01 | 500 | 4.95 | 34.12 | | 2.87 | 27.01 | 111.0 | .797 |
| 1003 | 3.42 | 34.422 | | 3.04 | 600 | 4.60 | 34.20 | | 2.71 | 27.12 | 102.3 | .904 |
| | | | | | 700 | 4.26 | 34.27 | | 2.81 | 27.21 | 94.1 | 1.002 |
| | | | | | 800 | 3.95 | 34.33 | | 3.00 | 27.28 | 87.1 | 1.093 |
| | | | | | 1000 | 3.43 | 34.42 | | 3.04 | 27.41 | 75.8 | 1.255 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 35 46 14.4 N 124 56.2 W DATE 5 APR 62 1700 GCT WIRE 0 DRY 49.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 11 VEL 2 KTS BAR 29 SWELL DIRECTION 27 H 6 T 10 CLOUD 0 AMT 4 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.28 | 31.858 | | .34 | 0 | 9.28 | 31.86 | | .34 | 24.65 | 331.0 | 0 |
| 5 | | 32.103 | | | 10 | 8.96 | 32.17 | | .57 | 24.94 | 303.5 | .032 |
| 10 | 8.96 | 32.146 | | .56 | 20 | 8.84 | 32.34 | | .66 | 25.09 | 289.1 | .061 |
| 30 | 8.82 | 32.524 | | .71 | 30 | 8.82 | 32.53 | | .72 | 25.24 | 275.1 | .090 |
| 50 | 8.81 | 32.765 | | .90 | 50 | 8.81 | 32.77 | | .90 | 25.43 | 257.4 | .143 |
| 100 | 8.59 | 33.679 | | 1.88 | 75 | 8.72 | 33.24 | | 1.40 | 25.81 | 221.2 | .203 |
| 150 | 8.30 | 33.784 | | 2.00 | 100 | 8.59 | 33.68 | | 1.89 | 26.18 | 187.1 | .254 |
| 201 | 8.10 | 33.882 | | 2.19 | 150 | 8.30 | 33.79 | | 2.01 | 26.30 | 175.9 | .344 |
| 301 | 6.53 | 33.969 | | 2.16 | 200 | 8.11 | 33.88 | | 2.19 | 26.41 | 167.0 | .430 |
| 406 | 5.49 | 34.018 | | 2.48 | 250 | 7.39 | 33.94 | | 2.19 | 26.55 | 153.6 | .510 |
| 504 | 5.00 | 34.120 | | 2.92 | 300 | 6.55 | 33.97 | | 2.16 | 26.69 | 140.5 | .584 |
| 606 | 4.61 | 34.199 | | | 400 | 5.53 | 34.01 | | 2.45 | 26.86 | 125.7 | .717 |
| | | | | | 500 | 5.01 | 34.12 | | 2.90 | 27.00 | 112.4 | .836 |
| | | | | | 600 | 4.63 | 34.20 | | | 27.11 | 103.4 | .943 |
| AH 25 46 14.4 N 124 41.6 W DATE 5 APR 62 1910 GCT WIRE 8 DRY 49.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 3 KTS BAR 29 SWELL DIRECTION 26 H 6 T 10 CLOUD 6 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.69 | 30.660 | | .29 | 0 | 9.69 | 30.67 | | .29 | 23.65 | 426.1 | 0 |
| 5 | | 30.881 | | | 10 | 9.50 | 31.01 | | .39 | 23.95 | 397.9 | .041 |
| 10 | 9.50 | 31.004 | | .39 | 20 | 8.88 | 32.38 | | .64 | 25.12 | 286.8 | .075 |
| 15 | 8.90 | 31.993 | | .55 | 30 | 8.84 | 32.48 | | .74 | 25.20 | 279.0 | .104 |
| 30 | 8.84 | 32.476 | | .73 | 50 | 8.80 | 32.57 | | .84 | 25.27 | 272.1 | .159 |
| 50 | 8.80 | 32.565 | | .83 | 75 | 8.74 | 32.96 | | 1.14 | 25.59 | 242.1 | .223 |
| 100 | 8.58 | 33.408 | | 1.47 | 100 | 8.58 | 33.41 | | 1.48 | 25.97 | 207.0 | .279 |
| 150 | 7.80 | 33.715 | | 1.74 | 150 | 7.81 | 33.72 | | 1.74 | 26.32 | 173.8 | .374 |
| 201 | 6.97 | 33.940 | | 1.96 | 200 | 6.99 | 33.94 | | 1.96 | 26.61 | 147.2 | .455 |
| AH 15 46 14.4 N 124 27.2 W DATE 5 APR 62 2054 GCT WIRE 11 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 3 KTS BAR 30 SWELL DIRECTION 27 H 4 T 10 CLOUD 6 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.38 | 19.850 | 7.04 | .90 | 0 | 9.38 | 19.85 | 7.05 | .90 | 15.30 | 1230.1 | 0 |
| 5 | | 28.978 | | | 10 | 9.14 | 31.73 | 6.43 | .83 | 24.56 | 339.1 | .078 |
| 10 | 9.14 | 31.723 | 6.42 | .82 | 20 | 8.74 | 32.43 | 5.02 | .94 | 25.18 | 280.8 | .109 |
| 15 | 8.71 | 32.374 | 4.91 | .97 | 30 | 8.79 | 32.56 | 5.23 | .90 | 25.27 | 272.6 | .137 |
| 30 | 8.79 | 32.562 | 5.23 | .89 | 50 | 8.58 | 32.58 | 5.30 | 1.11 | 25.31 | 268.4 | .191 |
| 50 | 8.58 | 32.571 | 5.29 | | 75 | 8.21 | 33.13 | 4.04 | 1.45 | 25.81 | 221.9 | .252 |
| 100 | 7.78 | 33.776 | 2.54 | 1.85 | 100 | 7.79 | 33.78 | 2.54 | 1.86 | 26.37 | 168.2 | .301 |
| 150 | 6.88 | 33.955 | 2.01 | 1.83 | 150 | 6.89 | 33.96 | 2.02 | 1.83 | 26.64 | 143.4 | .379 |
| 201 | 6.55 | 33.980 | 2.21 | 2.30 | 200 | 6.55 | 33.98 | 2.20 | 2.29 | 26.70 | 138.3 | .450 |
| AH 5 46 14.5 N 124 13.8 W DATE 5 APR 62 2305 GCT WIRE 10 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 3 KTS BAR 29 SWELL DIRECTION 27 H 4 T - CLOUD 0 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.48 | 18.190 | 6.61 | 1.00 | 0 | 9.48 | 18.19 | 6.61 | 1.01 | 13.99 | 1356.5 | 0 |
| 5 | | 22.160 | | | 10 | 8.65 | 31.15 | 6.61 | .63 | 24.19 | 374.8 | .087 |
| 10 | 8.65 | 31.147 | 6.61 | .63 | 20 | 8.55 | 32.11 | 6.22 | .88 | 24.95 | 302.2 | .120 |
| 15 | 8.59 | 31.974 | 5.40 | .71 | 30 | 8.71 | 32.53 | 5.70 | 1.00 | 25.25 | 273.7 | .149 |
| 20 | 8.55 | 32.105 | 6.22 | .87 | 50 | 8.58 | 32.58 | | | 25.31 | 268.4 | .203 |
| 29 | 8.70 | 32.489 | 5.76 | .98 | 75 | 8.21 | 33.13 | | | 25.81 | 221.9 | .265 |
| 39 | 8.80 | 32.821 | 5.12 | 1.21 | 100 | 7.79 | 33.78 | | | 26.37 | 168.2 | .313 |
| NH 5 44 39.1 N 124 10.7 W DATE 30 APR 62 1829 GCT WIRE - DRY 51.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 5 KTS BAR 20 SWELL DIRECTION 26 H 2 T 8 CLOUD 8 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.64 | 29.650 | 5.85 | .35 | 0 | 11.64 | 29.65 | 5.85 | .35 | 22.54 | 532.3 | 0 |
| 5 | 11.56 | 30.395 | | | 10 | 10.70 | 31.29 | 6.16 | .28 | 23.97 | 395.6 | .046 |
| 10 | 10.70 | 31.288 | 6.15 | .28 | 20 | 10.54 | 31.76 | 6.23 | .34 | 24.36 | 358.8 | .084 |
| 15 | 10.87 | 31.505 | | | 30 | 10.22 | 31.88 | 6.21 | .57 | 24.51 | 344.7 | .119 |
| 20 | 10.54 | 31.762 | 6.23 | .34 | 50 | 9.60 | 32.17 | 5.36 | .78 | 24.84 | 313.7 | .185 |
| 30 | 10.22 | 31.876 | 6.21 | .56 | 75 | 8.21 | 33.13 | | | 25.81 | 221.9 | .252 |
| 50 | 9.60 | 32.167 | 5.36 | .77 | 100 | 7.79 | 33.78 | | | 26.37 | 168.2 | .301 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| NH 15 44 39.1 N 124 24.6 W DATE 1 MAY 62 1850 GCT WIRE 10 DRY 49.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 5 KTS BAR 21 SWELL DIRECTION 24 H 4 T 8 CLOUD 8 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.93 | 31.978 | 6.47 | .46 | 0 | 9.93 | 31.98 | 6.47 | .46 | 24.64 | 332.0 | 0 |
| 5 | | 31.973 | | | 10 | 9.92 | 31.98 | 4.96 | .42 | 24.64 | 332.2 | .033 |
| 10 | 9.92 | 31.976 | 4.96 | .41 | 20 | 9.89 | 32.00 | 5.32 | .43 | 24.66 | 330.3 | .066 |
| 15 | | 31.981 | | | 30 | 9.77 | 32.08 | 5.43 | .44 | 24.74 | 322.6 | .099 |
| 20 | 9.89 | 31.997 | 5.32 | .43 | 50 | 8.70 | 32.77 | 4.50 | .88 | 25.45 | 255.4 | .157 |
| 30 | 9.77 | 32.078 | 5.42 | .44 | 75 | 8.21 | 33.13 | | | 25.81 | 221.9 | .216 |
| 49 | 8.74 | 32.740 | 4.55 | .85 | 100 | 7.79 | 33.78 | | | 26.37 | 168.2 | .265 |
| 73 | 8.18 | 33.520 | 3.15 | 1.66 | 150 | 6.89 | 33.96 | | | 26.64 | 143.4 | .343 |
| NH 25 44 39.1 N 124 38.8 W DATE 1 MAY 62 2143 GCT WIRE 4 DRY 50.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 3 KTS BAR 20 SWELL DIRECTION 26 H 4 T 8 CLOUD 7 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.00 | 31.762 | | .52 | 0 | 10.00 | 31.77 | | .52 | 24.46 | 349.2 | 0 |
| 5 | | 31.776 | | | 10 | 9.93 | 31.83 | | .51 | 24.52 | 343.7 | .035 |
| 10 | 9.93 | 31.823 | | .50 | 20 | 9.73 | 32.02 | | .50 | 24.70 | 326.3 | .068 |
| 15 | | 31.922 | | | 30 | 9.51 | 32.21 | | .51 | 24.88 | 309.0 | .100 |
| 30 | | 32.207 | | .50 | 50 | 9.00 | 32.48 | | .75 | 25.17 | 281.6 | .159 |
| 49 | 9.02 | 32.458 | | .73 | 75 | 8.57 | 33.06 | | 1.26 | 25.69 | 232.8 | .223 |
| 103 | 8.12 | 33.675 | | 1.80 | 100 | 8.17 | 33.61 | | 1.74 | 26.18 | 186.3 | .276 |
| 152 | 7.15 | 33.936 | | 2.05 | 150 | 7.19 | 33.94 | | 2.05 | 26.58 | 149.3 | .359 |
| 202 | 6.59 | 33.993 | | 2.17 | 200 | 6.60 | 33.99 | | 2.17 | 26.70 | 138.1 | .431 |
| NH 35 44 39.2 N 124 52.9 W DATE 2 MAY 62 0032 GCT WIRE - DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 3 KTS BAR 20 SWELL DIRECTION 27 H 4 T 8 CLOUD 0 AMT 10 WEATHER 10 | | | | | | | | | | | | |
| 0 | 10.07 | 32.447 | 6.44 | .52 | 0 | 10.07 | 32.45 | 6.44 | .52 | 24.98 | 299.5 | 0 |
| 5 | | 32.445 | | | 10 | 9.97 | 32.46 | 5.46 | .57 | 25.01 | 297.1 | .030 |
| 10 | 9.97 | 32.460 | 5.46 | .56 | 20 | 9.84 | 32.47 | 5.88 | .59 | 25.03 | 294.7 | .059 |
| 15 | | 32.464 | | | 30 | 9.84 | 32.47 | 5.85 | .60 | 25.03 | 294.8 | .089 |
| 20 | 9.84 | 32.467 | 5.87 | | 50 | 9.80 | 32.50 | 4.92 | .60 | 25.06 | 292.8 | .148 |
| 30 | 9.84 | 32.468 | 5.85 | .60 | 75 | 8.85 | 33.02 | 4.69 | 1.27 | 25.62 | 239.4 | .214 |
| 50 | 9.80 | 32.491 | 4.92 | .59 | 100 | 8.65 | 33.46 | 3.91 | 1.61 | 25.99 | 204.5 | .270 |
| 74 | 8.86 | 33.003 | 4.72 | 1.26 | 150 | 7.77 | 33.84 | 2.99 | 2.00 | 26.42 | 164.6 | .362 |
| 98 | 8.68 | 33.435 | 3.95 | 1.49 | 200 | 7.04 | 33.95 | 1.87 | 2.17 | 26.62 | 146.6 | .440 |
| 148 | 7.80 | 33.829 | 3.04 | 1.99 | 250 | 6.54 | 34.01 | 1.62 | 2.41 | 26.73 | 136.8 | .510 |
| 198 | 7.06 | 33.960 | 1.90 | 2.16 | 300 | 6.55 | 33.97 | | | 26.69 | 140.5 | .580 |
| 247 | 6.57 | 34.004 | 1.61 | 2.40 | 400 | 5.53 | 34.01 | | | 26.86 | 125.7 | .713 |
| NH 45 44 39.1 N 125 6.8 W DATE 2 MAY 62 0255 GCT WIRE 0 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 28 VEL 3 KTS BAR -- SWELL DIRECTION 28 H 5 T 8 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.24 | 32.497 | 6.58 | .63 | 0 | 10.24 | 32.50 | 6.58 | .63 | 24.99 | 298.5 | 0 |
| 5 | | 32.490 | | | 10 | 10.10 | 32.50 | 5.57 | .60 | 25.01 | 297.0 | .030 |
| 10 | 10.10 | 32.490 | 5.56 | .59 | 20 | 10.01 | 32.50 | 6.31 | .65 | 25.02 | 295.5 | .059 |
| 15 | | 32.500 | | | 30 | 9.98 | 32.49 | 6.27 | .60 | 25.03 | 295.5 | .089 |
| 20 | 10.01 | 32.493 | 6.30 | .65 | 50 | 9.38 | 32.64 | 4.78 | .85 | 25.24 | 275.2 | .146 |
| 30 | 9.98 | 32.488 | 6.26 | .59 | 75 | 8.88 | 33.02 | 3.93 | 1.26 | 25.61 | 240.3 | .210 |
| 50 | 9.37 | 32.638 | 4.77 | .84 | 100 | 8.51 | 33.42 | 3.60 | 1.65 | 25.98 | 205.6 | .266 |
| 105 | 8.45 | 33.500 | 3.60 | 1.73 | 150 | 7.68 | 33.85 | 3.12 | 2.07 | 26.44 | 162.5 | .358 |
| 155 | 7.60 | 33.869 | 3.08 | 2.09 | 200 | 7.13 | 33.93 | 2.48 | 2.11 | 26.59 | 149.5 | .436 |
| 205 | 7.09 | 33.939 | 2.42 | 2.11 | 250 | 6.63 | 33.98 | 2.07 | 2.24 | 26.69 | 140.3 | .509 |
| 305 | 6.12 | 34.007 | 1.78 | 2.46 | 300 | 6.16 | 34.00 | 1.80 | 2.44 | 26.77 | 132.8 | .577 |
| 406 | 5.42 | 34.073 | 1.17 | 2.90 | 400 | 5.46 | 34.07 | 1.20 | 2.88 | 26.91 | 120.7 | .704 |
| 506 | 4.81 | 34.130 | .64 | 2.82 | 500 | 4.84 | 34.13 | .67 | 2.84 | 27.03 | 109.5 | .819 |
| NH 65 44 39.1 N 125 35.1 W DATE 2 MAY 62 0746 GCT WIRE 0 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 3 KTS BAR 21 SWELL DIRECTION 27 H 3 T 7 CLOUD 23 AMT 07 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.17 | 32.555 | | .60 | 0 | 10.17 | 32.56 | | .60 | 25.05 | 293.1 | 0 |
| 5 | | 32.562 | | | 10 | 10.01 | 32.56 | | .54 | 25.07 | 290.9 | .029 |
| 10 | 10.01 | 32.563 | | .54 | 20 | 9.92 | 32.55 | | .55 | 25.08 | 290.0 | .058 |
| 30 | 9.84 | 32.562 | | .56 | 30 | 9.84 | 32.56 | | .57 | 25.10 | 288.6 | .087 |
| 50 | 9.50 | 32.596 | | .67 | 50 | 9.50 | 32.60 | | .68 | 25.19 | 280.3 | .144 |
| 100 | 8.61 | 33.402 | | 1.64 | 75 | 9.05 | 32.96 | | 1.13 | 25.54 | 247.4 | .210 |
| 150 | 7.92 | 33.890 | | 1.94 | 100 | 8.61 | 33.41 | | 1.65 | 25.96 | 207.9 | .267 |
| 200 | 7.29 | 34.010 | | 2.25 | 150 | 7.93 | 33.89 | | 1.95 | 26.44 | 162.5 | .359 |
| 299 | 6.35 | 34.038 | | 2.43 | 200 | 7.30 | 34.01 | | 2.26 | 26.63 | 145.6 | .436 |
| 404 | 5.24 | 34.026 | | 2.59 | 250 | 6.80 | 34.02 | | 2.38 | 26.70 | 138.9 | .508 |
| 503 | 4.92 | 34.127 | | 2.82 | 300 | 6.34 | 34.04 | | 2.43 | 26.78 | 132.6 | .575 |
| 603 | 4.57 | 34.195 | | 2.95 | 400 | 5.28 | 34.03 | | 2.58 | 26.90 | 121.7 | .702 |
| 803 | 4.02 | 34.346 | | 3.09 | 500 | 4.92 | 34.12 | | 2.81 | 27.02 | 110.7 | .819 |
| 1003 | 3.54 | 34.430 | | 3.01 | 600 | 4.58 | 34.19 | | 2.95 | 27.11 | 103.0 | .925 |
| | | | | | 700 | 4.29 | 34.27 | | 3.04 | 27.20 | 94.4 | 1.024 |
| | | | | | 800 | 4.03 | 34.34 | | 3.09 | 27.29 | 86.7 | 1.115 |
| | | | | | 1000 | 3.55 | 34.43 | | 3.01 | 27.40 | 76.5 | 1.278 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 85 44 39.1 N 126 3.1 W DATE 2 MAY 62 1252 GCT WIRE 10 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 2 KTS BAR 22 SWELL DIRECTION 27 H 2 T 7 CLOUD 6 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.22 | 32.563 | 6.53 | .60 | 0 | 10.22 | 32.57 | 6.54 | .60 | 25.04 | 293.3 | 0 |
| 5 | | 32.562 | | | 10 | 10.21 | 32.57 | 6.41 | .59 | 25.04 | 293.4 | .029 |
| 10 | 10.21 | 32.562 | 6.40 | .58 | 20 | 10.15 | 32.56 | 6.43 | .58 | 25.05 | 293.1 | .059 |
| 29 | 10.07 | 32.557 | 6.47 | .60 | 30 | 10.06 | 32.56 | 6.46 | .60 | 25.06 | 292.0 | .088 |
| 48 | 9.90 | 32.574 | 6.25 | .67 | 50 | 9.84 | 32.60 | 6.20 | .70 | 25.13 | 286.0 | .146 |
| 96 | 8.44 | 33.273 | 4.84 | 1.43 | 75 | 9.11 | 32.92 | 5.54 | 1.06 | 25.50 | 251.1 | .213 |
| 144 | 7.89 | 33.802 | 3.29 | 1.89 | 100 | 8.38 | 33.33 | 4.69 | 1.48 | 25.93 | 210.4 | .270 |
| 193 | 7.10 | 33.921 | 3.00 | 2.03 | 150 | 7.79 | 33.83 | 3.22 | 1.92 | 26.41 | 165.5 | .364 |
| 295 | 6.23 | 34.008 | 1.98 | 2.43 | 200 | 7.02 | 33.93 | 2.94 | 2.06 | 26.60 | 148.1 | .443 |
| 394 | 5.60 | 34.121 | 1.08 | 2.82 | 250 | 6.54 | 33.98 | 2.46 | 2.24 | 26.71 | 138.7 | .514 |
| 493 | 5.05 | 34.139 | .73 | 2.93 | 300 | 6.19 | 34.01 | 1.93 | 2.45 | 26.78 | 132.5 | .582 |
| 591 | 4.60 | 34.206 | .39 | 2.99 | 400 | 5.56 | 34.12 | 1.05 | 2.83 | 26.94 | 118.0 | .707 |
| 789 | 4.05 | 34.336 | .36 | 3.16 | 500 | 5.01 | 34.14 | .70 | 2.93 | 27.02 | 110.3 | .822 |
| 987 | 3.52 | 34.404 | .33 | 3.06 | 600 | 4.57 | 34.21 | .38 | 3.00 | 27.13 | 101.4 | .927 |
| | | | | | 700 | 4.27 | 34.28 | .37 | 3.10 | 27.21 | 93.4 | 1.025 |
| | | | | | 800 | 4.02 | 34.34 | .36 | 3.15 | 27.29 | 86.8 | 1.115 |
| | | | | | 1000 | 3.49 | 34.41 | .33 | 3.05 | 27.39 | 77.3 | 1.279 |
| NH 105 44 39.1 N 126 31.0 W DATE 2 MAY 62 1802 GCT WIRE 3 DRY 50.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 11 VEL 4 KTS BAR 22 SWELL DIRECTION 26 H 3 T 8 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.04 | 32.561 | 6.29 | .73 | 0 | 10.04 | 32.57 | 6.30 | .74 | 25.07 | 290.6 | 0 |
| 5 | | 32.558 | | | 10 | 9.92 | 32.56 | 5.98 | .70 | 25.08 | 289.6 | .029 |
| 10 | 9.92 | 32.551 | 5.98 | .69 | 20 | 9.88 | 32.55 | 5.68 | .70 | 25.09 | 289.6 | .058 |
| 30 | 9.84 | 32.544 | 5.53 | .73 | 30 | 9.84 | 32.55 | 5.54 | .74 | 25.09 | 289.2 | .087 |
| 49 | 9.64 | 32.574 | 6.01 | .77 | 50 | 9.61 | 32.59 | 5.99 | .79 | 25.16 | 283.0 | .144 |
| 98 | 7.93 | 33.328 | 4.26 | 1.70 | 75 | 8.77 | 32.93 | 5.30 | 1.23 | 25.56 | 245.1 | .210 |
| 148 | 7.41 | 33.802 | 3.36 | 2.05 | 100 | 7.90 | 33.35 | 4.21 | 1.72 | 26.02 | 201.6 | .266 |
| 198 | 6.85 | 33.930 | 2.67 | 2.22 | 150 | 7.39 | 33.81 | 3.33 | 2.06 | 26.46 | 161.2 | .357 |
| 297 | 5.86 | 34.000 | 1.87 | 2.55 | 200 | 6.83 | 33.93 | 2.65 | 2.23 | 26.63 | 145.4 | .433 |
| 403 | 5.24 | 34.067 | 1.15 | 2.88 | 250 | 6.30 | 33.98 | 2.20 | 2.40 | 26.74 | 135.5 | .503 |
| 503 | 4.76 | 34.151 | .64 | 3.02 | 300 | 5.84 | 34.00 | 1.85 | 2.56 | 26.81 | 129.0 | .569 |
| 603 | 4.47 | 34.247 | .37 | 3.14 | 400 | 5.25 | 34.07 | 1.17 | 2.87 | 26.93 | 118.5 | .693 |
| 804 | 3.90 | 34.342 | .36 | 3.14 | 500 | 4.77 | 34.15 | .65 | 3.02 | 27.05 | 107.1 | .806 |
| 1004 | 3.48 | 34.423 | .34 | 3.20 | 600 | 4.48 | 34.24 | .38 | 3.14 | 27.16 | 98.0 | .908 |
| | | | | | 700 | 4.18 | 34.30 | .37 | 3.14 | 27.24 | 90.9 | 1.003 |
| | | | | | 800 | 3.91 | 34.34 | .36 | 3.14 | 27.30 | 85.6 | 1.091 |
| | | | | | 1000 | 3.49 | 34.42 | .34 | 3.20 | 27.40 | 76.4 | 1.253 |
| NH 125 44 39.1 N 126 59.0 W DATE 2 MAY 62 2047 GCT WIRE 9 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 5 KTS BAR 19 SWELL DIRECTION 27 H 3 T 8 CLOUD 4 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.93 | 32.571 | | .75 | 0 | 9.93 | 32.58 | | .76 | 25.10 | 288.1 | 0 |
| 5 | | 32.562 | | | 10 | 9.84 | 32.57 | | .76 | 25.11 | 287.5 | .029 |
| 10 | 9.84 | 32.562 | | .76 | 20 | 9.79 | 32.56 | | .76 | 25.11 | 287.5 | .058 |
| 30 | 9.70 | 32.559 | | .76 | 30 | 9.70 | 32.56 | | .76 | 25.13 | 285.9 | .086 |
| 49 | 9.15 | 32.581 | | .91 | 50 | 9.15 | 32.59 | | .92 | 25.24 | 275.7 | .142 |
| 98 | 9.06 | 33.194 | | 1.59 | 75 | 9.07 | 32.86 | | 1.25 | 25.46 | 254.8 | .209 |
| 147 | 7.55 | 33.730 | | 2.14 | 100 | 9.00 | 33.22 | | 1.62 | 25.75 | 227.6 | .269 |
| 196 | 7.00 | 33.894 | | 2.21 | 150 | 7.50 | 33.75 | | 2.15 | 26.39 | 167.6 | .368 |
| 295 | 5.93 | 33.961 | | 2.55 | 200 | 6.95 | 33.90 | | 2.22 | 26.59 | 149.5 | .447 |
| 400 | 5.24 | 34.047 | | 2.88 | 250 | 6.39 | 33.95 | | 2.38 | 26.70 | 138.9 | .519 |
| 499 | 4.84 | 34.139 | | 3.05 | 300 | 5.89 | 33.96 | | 2.57 | 26.78 | 132.3 | .587 |
| 598 | 4.54 | 34.206 | | | 400 | 5.24 | 34.05 | | 2.89 | 26.92 | 119.4 | .713 |
| 797 | 3.93 | 34.330 | | | 500 | 4.84 | 34.14 | | 3.05 | 27.04 | 108.5 | .826 |
| 996 | 3.47 | 34.413 | | | 600 | 4.53 | 34.21 | | | 27.13 | 101.4 | .931 |
| | | | | | 700 | 4.22 | 34.27 | | | 27.21 | 93.5 | 1.029 |
| | | | | | 800 | 3.92 | 34.33 | | | 27.29 | 86.4 | 1.119 |
| | | | | | 1000 | 3.46 | 34.41 | | | 27.40 | 76.6 | 1.281 |
| NH 145 44 39.0 N 127 26.9 W DATE 3 MAY 62 0044 GCT WIRE 15 DRY 50.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 5 KTS BAR 16 SWELL DIRECTION 27 H 3 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.98 | 32.563 | 6.47 | .54 | 0 | 9.98 | 32.57 | 6.47 | .54 | 25.08 | 289.5 | 0 |
| 5 | | 32.572 | | | 10 | 9.98 | 32.57 | 6.44 | .46 | 25.08 | 289.6 | .029 |
| 10 | 9.98 | 32.564 | 6.44 | .46 | 20 | 9.96 | 32.56 | 6.34 | .47 | 25.09 | 289.6 | .058 |
| 29 | 9.90 | 32.565 | 6.24 | .51 | 30 | 9.89 | 32.57 | 6.24 | .51 | 25.10 | 288.7 | .087 |
| 48 | 9.63 | 32.570 | 6.22 | .55 | 50 | 9.57 | 32.57 | 6.21 | .56 | 25.16 | 283.5 | .144 |
| 95 | 8.20 | 32.817 | 5.97 | .90 | 75 | 8.83 | 32.66 | 6.18 | .72 | 25.34 | 266.0 | .213 |
| 143 | 7.43 | 33.551 | 4.30 | 1.35 | 100 | 8.09 | 32.89 | 5.81 | .95 | 25.63 | 238.6 | .276 |
| 189 | 7.07 | 33.858 | 3.68 | 1.56 | 150 | 7.37 | 33.62 | 4.18 | 1.39 | 26.30 | 175.5 | .379 |
| 285 | 5.82 | 33.959 | 2.10 | 1.97 | 200 | 6.93 | 33.89 | 3.49 | 1.61 | 26.58 | 150.0 | .461 |
| 388 | 5.20 | 34.040 | 1.32 | 2.27 | 250 | 6.28 | 33.92 | 2.65 | 1.83 | 26.69 | 139.7 | .533 |
| 486 | 4.79 | 34.112 | .73 | 2.37 | 300 | 5.70 | 33.97 | 1.95 | 2.02 | 26.80 | 129.5 | .600 |
| 585 | 4.56 | 34.184 | .52 | 2.30 | 400 | 5.14 | 34.05 | 1.23 | 2.29 | 26.93 | 118.4 | .724 |
| 784 | 3.90 | 34.309 | .29 | 2.41 | 500 | 4.75 | 34.12 | .69 | 2.36 | 27.03 | 108.8 | .838 |
| 983 | 3.45 | 34.394 | .32 | 2.27 | 600 | 4.51 | 34.19 | .49 | 2.31 | 27.12 | 102.1 | .943 |
| | | | | | 700 | 4.18 | 34.26 | .36 | 2.36 | 27.21 | 94.0 | 1.041 |
| | | | | | 800 | 3.86 | 34.32 | .29 | 2.41 | 27.29 | 86.7 | 1.131 |
| | | | | | 1000 | 3.41 | 34.40 | .32 | 2.26 | 27.40 | 77.0 | 1.295 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 165 44 39.1 N 127 55.0 W DATE 3 MAY 62 0454 GCT WIRE 0 DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 4 KTS BAR 13 SWELL DIRECTION 27 H 6 T - CLOUD - AMT 10 WEATHER 61 | | | | | | | | | | | | |
| 0 | 9.99 | 32.565 | 6.74 | .80 | 0 | 9.99 | 32.56 | 6.74 | .81 | 25.08 | 290.2 | 0 |
| 5 | | 32.560 | | | 10 | 10.00 | 32.56 | 6.23 | .68 | 25.07 | 290.9 | .029 |
| 10 | 10.00 | 32.561 | 6.23 | .67 | 20 | 9.99 | 32.55 | 6.02 | .70 | 25.07 | 291.2 | .058 |
| 30 | 9.99 | 32.564 | 6.01 | .78 | 30 | 9.99 | 32.56 | 6.02 | .79 | 25.08 | 290.8 | .087 |
| 50 | 9.88 | 32.567 | 6.30 | .84 | 50 | 9.88 | 32.57 | 6.31 | .85 | 25.10 | 288.4 | .145 |
| 105 | 8.32 | 33.032 | 4.92 | 1.44 | 75 | 9.25 | 32.72 | 5.86 | 1.09 | 25.32 | 268.0 | .215 |
| 155 | 7.44 | 33.737 | 3.75 | 1.71 | 100 | 8.49 | 32.97 | 5.11 | 1.38 | 25.64 | 238.5 | .278 |
| 205 | 6.82 | 33.888 | 3.49 | 1.55 | 150 | 7.51 | 33.67 | 3.84 | 1.70 | 26.33 | 173.2 | .381 |
| 305 | 5.69 | 33.942 | 2.37 | 2.13 | 200 | 6.88 | 33.89 | 3.50 | 1.57 | 26.59 | 149.4 | .461 |
| 411 | 5.19 | 34.040 | 1.18 | 2.49 | 250 | 6.26 | 33.93 | 3.04 | 1.75 | 26.70 | 138.9 | .534 |
| 511 | 4.74 | 34.108 | .83 | 2.73 | 300 | 5.74 | 33.94 | 2.44 | 2.09 | 26.77 | 132.4 | .601 |
| 610 | 4.38 | 34.188 | .43 | 2.87 | 400 | 5.22 | 34.03 | 1.28 | 2.46 | 26.91 | 120.8 | .728 |
| 809 | 3.94 | 34.325 | .33 | 3.08 | 500 | 4.79 | 34.10 | .85 | 2.71 | 27.01 | 110.8 | .844 |
| 1008 | 3.36 | 34.407 | .39 | 3.05 | 600 | 4.41 | 34.18 | .47 | 2.86 | 27.12 | 102.0 | .950 |
| | | | | | 700 | 4.17 | 34.26 | .38 | 2.99 | 27.20 | 94.2 | 1.048 |
| | | | | | 800 | 3.96 | 34.32 | .33 | 3.07 | 27.28 | 87.7 | 1.139 |
| | | | | | 1000 | 3.39 | 34.40 | .38 | 3.06 | 27.40 | 76.5 | 1.303 |
| NH 5 44 39.1 N 124 10.6 W DATE 4 JUN 62 2030 GCT WIRE 5 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 5 KTS BAR 17 SWELL DIRECTION 18 H 3 T 7 CLOUD 7 AMT 8 WEATHER 62 | | | | | | | | | | | | |
| 0 | 13.08 | 27.970 | 6.35 | .34 | 0 | 13.08 | 27.98 | 6.35 | .34 | 20.98 | 681.6 | 0 |
| 10 | 11.01 | 32.260 | 7.24 | .46 | 10 | 11.01 | 32.26 | 7.24 | .46 | 24.67 | 328.9 | .051 |
| 20 | 8.17 | 33.410 | 3.21 | 1.74 | 20 | 8.17 | 33.42 | 3.22 | 1.74 | 26.03 | 199.8 | .077 |
| 30 | 7.95 | 33.690 | | 1.96 | 30 | 7.95 | 33.70 | 3.17 | 1.96 | 26.28 | 176.0 | .096 |
| 40 | 7.88 | 33.710 | 3.14 | 2.18 | 50 | 7.82 | 33.75 | 2.38 | 2.15 | 26.34 | 170.7 | .130 |
| 50 | 7.82 | 33.740 | 2.37 | 2.15 | 75 | 9.25 | 32.72 | | | 25.32 | 268.0 | .185 |
| NH 15 44 39.1 N 124 24.8 W DATE 4 JUN 62 2236 GCT WIRE 5 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 5 KTS BAR 17 SWELL DIRECTION 26 H 3 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.82 | 30.230 | 5.20 | .38 | 0 | 12.82 | 30.23 | 5.20 | .38 | 22.77 | 510.1 | 0 |
| 10 | 9.19 | 32.190 | 5.68 | .93 | 10 | 9.19 | 32.19 | 5.69 | .93 | 24.92 | 305.1 | .041 |
| 20 | 8.91 | 32.350 | 5.42 | .90 | 20 | 8.91 | 32.35 | 5.43 | .90 | 25.09 | 289.2 | .070 |
| 30 | 8.80 | 32.490 | 4.87 | .85 | 30 | 8.80 | 32.50 | 4.88 | .86 | 25.22 | 277.4 | .099 |
| 50 | 8.30 | 32.960 | 4.41 | 1.38 | 50 | 8.30 | 32.96 | 4.41 | 1.39 | 25.66 | 235.5 | .150 |
| 75 | 7.80 | 33.540 | 2.98 | 1.80 | 75 | 7.81 | 33.54 | 2.98 | 1.80 | 26.19 | 185.7 | .203 |
| NH 25 44 39.1 N 124 38.8 W DATE 5 JUN 62 0019 GCT WIRE 7 DRY 53.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 3 KTS BAR 18 SWELL DIRECTION 26 H 2 T 7 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.47 | 29.320 | 7.11 | .14 | 0 | 13.47 | 29.32 | 7.11 | .15 | 21.95 | 589.1 | 0 |
| 10 | 12.91 | 29.850 | 7.24 | .36 | 10 | 12.91 | 29.85 | 7.24 | .36 | 22.46 | 539.9 | .056 |
| 20 | 9.95 | 32.400 | 6.88 | .42 | 20 | 9.95 | 32.40 | 6.89 | .42 | 24.96 | 301.4 | .099 |
| 30 | 9.62 | 32.520 | 6.37 | .52 | 30 | 9.63 | 32.52 | 6.38 | .52 | 25.11 | 287.5 | .128 |
| 50 | 8.83 | 32.560 | 5.62 | .88 | 50 | 8.83 | 32.56 | 5.63 | .89 | 25.27 | 272.9 | .184 |
| 99 | 7.92 | 33.560 | 3.88 | 1.93 | 75 | 8.27 | 33.03 | 4.66 | 1.43 | 25.72 | 230.5 | .247 |
| 148 | 7.10 | 33.920 | | 2.57 | 100 | 7.90 | 33.57 | 3.85 | 1.95 | 26.20 | 185.2 | .299 |
| 198 | 7.56 | 33.540 | 3.44 | | 150 | 7.12 | 33.92 | 3.65 | 2.60 | 26.58 | 149.5 | .382 |
| | | | | | 200 | 7.58 | 33.52 | 3.47 | | 26.20 | 185.9 | .466 |
| NH 35 44 39.2 N 124 53.0 W DATE 5 JUN 62 0218 GCT WIRE 3 DRY 54.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 5 KTS BAR 18 SWELL DIRECTION 27 H 3 T 7 CLOUD - AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.86 | 30.920 | 6.39 | .40 | 0 | 12.86 | 30.92 | 6.40 | .40 | 23.30 | 460.0 | 0 |
| 10 | 12.34 | 30.080 | 6.57 | .42 | 10 | 12.34 | 30.08 | 6.57 | .42 | 22.75 | 512.8 | .049 |
| 20 | 9.72 | 32.370 | 6.09 | .49 | 20 | 9.72 | 32.38 | 6.09 | .49 | 24.98 | 300.0 | .089 |
| 30 | 9.34 | 32.420 | 6.35 | .77 | 30 | 9.34 | 32.42 | 6.35 | .78 | 25.08 | 290.6 | .119 |
| 50 | 8.91 | 32.500 | 6.21 | .90 | 50 | 8.91 | 32.50 | 6.21 | .90 | 25.21 | 278.5 | .176 |
| 105 | 7.99 | 33.680 | 3.18 | 2.08 | 75 | 8.47 | 33.01 | 4.93 | 1.43 | 25.67 | 235.0 | .240 |
| 154 | 7.15 | 33.920 | 2.47 | 2.23 | 100 | 8.07 | 33.56 | 3.49 | 1.97 | 26.16 | 188.4 | .293 |
| 204 | 6.77 | 33.970 | 2.19 | 2.38 | 150 | 7.21 | 33.92 | 2.48 | 2.22 | 26.56 | 150.8 | .378 |
| | | | | | 200 | 6.78 | 33.97 | 2.20 | 2.37 | 26.66 | 142.3 | .451 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 45 44 39.2 N 125 7.0 W DATE 5 JUN 62 0405 GCT WIRE 3 DRY 54.8 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 28 VEL 4 KTS BAR 19 SWELL DIRECTION 27 H 3 T 7 CLOUD - AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.33 | 29.920 | 6.09 | .26 | 0 | 13.33 | 29.92 | 6.09 | .26 | 22.43 | 542.3 | 0 |
| 10 | 12.01 | 31.880 | 6.57 | .27 | 10 | 12.01 | 31.88 | 6.57 | .27 | 24.20 | 374.1 | .046 |
| 20 | 10.95 | 32.580 | 6.50 | .44 | 20 | 10.95 | 32.58 | 6.51 | .44 | 24.93 | 304.4 | .080 |
| 29 | 10.44 | 32.610 | 5.93 | .50 | 30 | 10.40 | 32.61 | 5.94 | .51 | 25.05 | 293.5 | .110 |
| 51 | 9.66 | 32.610 | 6.18 | .68 | 50 | 9.69 | 32.61 | 6.15 | .67 | 25.17 | 282.5 | .167 |
| 102 | 8.24 | 33.630 | 3.79 | 1.62 | 75 | 8.91 | 33.05 | 5.23 | 1.12 | 25.63 | 238.5 | .232 |
| 151 | 7.53 | 33.870 | 2.79 | 1.90 | 100 | 8.28 | 33.58 | 3.91 | 1.58 | 26.15 | 190.0 | .286 |
| 203 | 7.03 | 33.940 | 2.45 | 2.03 | 150 | 7.54 | 33.87 | 2.80 | 1.90 | 26.48 | 159.0 | .373 |
| 304 | 6.17 | 34.070 | 1.72 | 2.36 | 200 | 7.05 | 33.94 | 2.46 | 2.02 | 26.60 | 148.0 | .450 |
| 405 | 5.34 | 34.040 | 1.27 | 2.48 | 250 | 6.62 | 34.01 | 2.10 | 2.19 | 26.72 | 137.5 | .521 |
| 505 | 4.86 | 34.140 | .79 | 2.66 | 300 | 6.20 | 34.07 | 1.75 | 2.35 | 26.82 | 128.7 | .588 |
| 606 | 4.49 | 34.230 | .39 | 2.82 | 400 | 5.38 | 34.04 | 1.29 | 2.48 | 26.90 | 121.7 | .713 |
| | | | | | 500 | 4.88 | 34.13 | .81 | 2.65 | 27.03 | 109.4 | .828 |
| | | | | | 600 | 4.51 | 34.22 | .41 | 2.81 | 27.14 | 99.8 | .933 |
| NH 65 44 39.1 N 125 35.5 W DATE 5 JUN 62 0800 GCT WIRE 11 DRY 54.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 4 KTS BAR 21 SWELL DIRECTION 26 H 2 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.64 | 29.170 | 6.47 | .12 | 0 | 13.64 | 29.17 | 6.47 | .13 | 21.80 | 603.4 | 0 |
| 10 | 13.10 | 31.220 | 6.27 | .26 | 10 | 13.10 | 31.23 | 6.28 | .26 | 23.48 | 442.5 | .052 |
| 20 | 11.31 | 32.600 | 6.10 | .48 | 20 | 11.31 | 32.60 | 6.10 | .49 | 24.88 | 309.0 | .090 |
| 30 | 11.00 | 32.610 | 6.33 | .51 | 30 | 11.00 | 32.61 | 6.33 | .51 | 24.95 | 303.2 | .120 |
| 52 | 9.55 | | 6.00 | | 50 | 9.69 | 32.83 | 6.06 | .84 | 25.33 | 266.6 | .177 |
| 102 | 8.34 | 33.560 | 3.78 | 1.86 | 75 | 8.77 | 33.15 | 5.04 | 1.31 | 25.73 | 229.0 | .239 |
| 151 | 7.89 | 33.870 | 2.59 | 2.10 | 100 | 8.35 | 33.53 | 3.88 | 1.82 | 26.09 | 195.2 | .292 |
| 203 | 7.07 | 33.940 | 2.79 | 2.15 | 150 | 7.90 | 33.87 | 2.60 | 2.10 | 26.43 | 164.2 | .382 |
| 301 | 6.13 | 34.010 | 1.60 | 2.50 | 200 | 7.12 | 33.94 | 2.77 | 2.15 | 26.59 | 148.7 | .460 |
| 398 | 5.33 | 34.020 | 1.41 | | 250 | 6.56 | 33.98 | 2.28 | 2.30 | 26.70 | 138.9 | .532 |
| 496 | 4.85 | 34.130 | .88 | 2.94 | 300 | 6.14 | 34.01 | 1.61 | 2.50 | 26.78 | 132.1 | .600 |
| 593 | 4.62 | 34.190 | .47 | 3.00 | 400 | 5.32 | 34.02 | 1.40 | 2.77 | 26.89 | 122.5 | .727 |
| 789 | 4.05 | 34.310 | .32 | 3.36 | 500 | 4.84 | 34.13 | .86 | 2.94 | 27.03 | 109.0 | .843 |
| 985 | 3.58 | 34.400 | .35 | 3.01 | 600 | 4.60 | 34.19 | .46 | 3.02 | 27.11 | 103.1 | .949 |
| | | | | | 700 | 4.31 | 34.26 | .32 | 3.22 | 27.19 | 95.7 | 1.048 |
| | | | | | 800 | 4.02 | 34.32 | .32 | 3.36 | 27.27 | 88.7 | 1.140 |
| | | | | | 1000 | 3.54 | 34.41 | .35 | 2.98 | 27.39 | 78.1 | 1.307 |
| NH 85 44 39.1 N 126 3.1 W DATE 5 JUN 62 1245 GCT WIRE 6 DRY 52.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 3 KTS BAR 22 SWELL DIRECTION 29 H 3 T 7 CLOUD 6 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.26 | 30.730 | 5.76 | .18 | 0 | 13.26 | 30.73 | 5.77 | .19 | 23.07 | 481.4 | 0 |
| 10 | 12.89 | 31.620 | 6.12 | .22 | 10 | 12.89 | 31.63 | 6.13 | .23 | 23.83 | 409.2 | .045 |
| 20 | 11.78 | 32.440 | 6.11 | .23 | 20 | 11.78 | 32.44 | 6.11 | .24 | 24.67 | 329.0 | .081 |
| 30 | 10.68 | 32.530 | 6.12 | .42 | 30 | 10.68 | 32.53 | 6.13 | .42 | 24.94 | 303.8 | .113 |
| 53 | 9.43 | 32.620 | 6.07 | 1.05 | 50 | 9.53 | 32.61 | 6.10 | .97 | 25.19 | 280.2 | .171 |
| 104 | 8.54 | 33.500 | 3.95 | 1.82 | 75 | 8.88 | 32.97 | 5.25 | 1.45 | 25.58 | 243.6 | .237 |
| 154 | 7.85 | 33.870 | 3.10 | 2.32 | 100 | 8.56 | 33.42 | 4.14 | 1.78 | 25.98 | 205.9 | .293 |
| 206 | 7.26 | 33.940 | 2.93 | 2.22 | 150 | 7.90 | 33.85 | 3.13 | 2.30 | 26.42 | 165.1 | .386 |
| 307 | 6.01 | 33.970 | 1.95 | 2.62 | 200 | 7.33 | 33.93 | 2.94 | 2.24 | 26.56 | 152.2 | .465 |
| 406 | 5.30 | 34.050 | 1.09 | 2.90 | 250 | 6.69 | 33.96 | 2.55 | 2.35 | 26.67 | 142.4 | .539 |
| 507 | 4.78 | 34.110 | .74 | 3.06 | 300 | 6.09 | 33.97 | 2.03 | 2.58 | 26.75 | 134.5 | .608 |
| 608 | 4.42 | 34.190 | .45 | 3.22 | 400 | 5.33 | 34.04 | 1.13 | 2.89 | 26.91 | 121.0 | .736 |
| 807 | 3.87 | 34.310 | .36 | 3.26 | 500 | 4.81 | 34.11 | .75 | 3.05 | 27.02 | 110.7 | .851 |
| 1005 | 3.48 | 34.410 | .35 | 3.10 | 600 | 4.44 | 34.18 | .47 | 3.21 | 27.12 | 102.1 | .958 |
| | | | | | 700 | 4.14 | 34.25 | .36 | 3.24 | 27.20 | 94.3 | 1.056 |
| | | | | | 800 | 3.89 | 34.31 | .36 | 3.26 | 27.27 | 87.8 | 1.147 |
| | | | | | 1000 | 3.49 | 34.41 | .35 | 3.11 | 27.39 | 77.4 | 1.312 |
| NH 105 44 39.3 N 126 30.7 W DATE 5 JUN 62 1615 GCT WIRE 0 DRY 52.5 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 28 VEL 3 KTS BAR 23 SWELL DIRECTION 28 H 3 T 8 CLOUD 6 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.51 | 32.350 | 6.11 | .33 | 0 | 12.51 | 32.35 | 6.11 | .33 | 24.47 | 348.3 | 0 |
| 10 | 12.05 | 32.600 | 6.18 | .52 | 10 | 12.05 | 32.60 | 6.19 | .52 | 24.75 | 321.8 | .033 |
| 20 | 11.92 | 32.620 | 5.08 | .42 | 20 | 11.92 | 32.63 | 5.08 | .42 | 24.79 | 318.2 | .065 |
| 30 | 10.56 | 32.570 | 6.21 | .44 | 30 | 10.56 | 32.57 | 6.21 | .44 | 24.99 | 298.8 | .096 |
| 51 | 9.62 | 32.570 | 5.86 | .62 | 50 | 9.63 | 32.57 | 5.92 | .61 | 25.14 | 284.6 | .155 |
| 104 | 8.18 | 33.250 | 4.22 | 1.42 | 75 | 8.83 | 32.82 | 5.16 | .97 | 25.47 | 254.0 | .222 |
| 153 | 7.69 | 33.810 | 3.11 | 1.86 | 100 | 8.25 | 33.18 | 4.35 | 1.36 | 25.84 | 219.2 | .281 |
| 206 | 6.82 | 33.920 | 2.61 | 2.16 | 150 | 7.71 | 33.78 | 3.16 | 1.84 | 26.39 | 167.8 | .378 |
| 307 | 5.77 | 33.990 | 1.59 | 2.48 | 200 | 6.92 | 33.91 | 2.65 | 2.13 | 26.60 | 148.5 | .457 |
| 408 | 5.21 | 34.070 | .85 | 2.54 | 250 | 6.28 | 33.96 | 2.15 | 2.34 | 26.72 | 136.9 | .528 |
| 510 | 4.77 | 34.130 | .65 | 2.82 | 300 | 5.82 | 33.99 | 1.66 | 2.47 | 26.80 | 129.8 | .595 |
| 611 | 4.48 | 34.220 | .37 | 2.94 | 400 | 5.24 | 34.06 | .89 | 2.54 | 26.93 | 118.5 | .719 |
| 818 | 3.95 | 34.330 | .28 | 3.04 | 500 | 4.81 | 34.12 | .66 | 2.79 | 27.03 | 109.3 | .833 |
| 1013 | 3.46 | 34.400 | .35 | 3.06 | 600 | 4.51 | 34.21 | .40 | 2.93 | 27.13 | 100.9 | .938 |
| | | | | | 700 | 4.25 | 34.28 | .28 | 3.00 | 27.21 | 93.6 | 1.035 |
| | | | | | 800 | 3.99 | 34.32 | .29 | 3.04 | 27.28 | 87.8 | 1.126 |
| | | | | | 1000 | 3.49 | 34.40 | .34 | 3.06 | 27.38 | 78.3 | 1.292 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 125 44 39.1 N 126 58.8 W DATE 5 JUN 62 2012 GCT WIRE - DRY 53.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 3 KTS BAR 24 SWELL DIRECTION 28 H 2 T 7 CLOUD 8 AMT 7 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.04 | 32.600 | | .82 | 0 | 12.04 | 32.60 | | .83 | 24.75 | 321.4 | 0 |
| 10 | 11.90 | 32.600 | | .62 | 10 | 11.90 | 32.60 | | .63 | 24.78 | 319.1 | .032 |
| 20 | 11.73 | 32.600 | | .55 | 20 | 11.73 | 32.60 | | .56 | 24.81 | 316.3 | .064 |
| 30 | 11.03 | 32.610 | | .54 | 30 | 11.03 | 32.61 | | .54 | 24.94 | 303.7 | .095 |
| 53 | 9.25 | 32.610 | | .72 | 50 | 9.47 | 32.61 | | .69 | 25.20 | 279.1 | .153 |
| 103 | 7.92 | 33.370 | | 0 | 75 | 8.41 | 32.90 | | .95 | 25.59 | 242.3 | .218 |
| 154 | 7.22 | 33.840 | | 1.72 | 100 | 7.94 | 33.31 | | 1.20 | 25.99 | 205.1 | .274 |
| 206 | 6.71 | 33.940 | | 1.98 | 150 | 7.26 | 33.82 | | 1.68 | 26.48 | 159.2 | .365 |
| 305 | 5.47 | 33.960 | | 0 | 200 | 6.77 | 33.94 | | 1.95 | 26.64 | 144.0 | .441 |
| 406 | 4.83 | 34.010 | | 3.01 | 250 | 6.14 | 33.95 | | 2.26 | 26.73 | 136.0 | .511 |
| 506 | 4.41 | 34.110 | | 3.01 | 300 | 5.53 | 33.96 | | 2.55 | 26.82 | 128.4 | .577 |
| 608 | 4.27 | 34.220 | | 3.26 | 400 | 4.86 | 34.01 | | 2.99 | 26.93 | 118.2 | .700 |
| 809 | 3.81 | 34.350 | | 3.38 | 500 | 4.43 | 34.10 | | 3.01 | 27.06 | 106.4 | .813 |
| 1007 | 3.36 | 34.420 | | 3.49 | 600 | 4.28 | 34.21 | | 3.24 | 27.16 | 98.1 | .915 |
| | | | | | 700 | 4.07 | 34.29 | | 3.35 | 27.24 | 90.5 | 1.009 |
| | | | | | 800 | 3.83 | 34.35 | | 3.37 | 27.31 | 84.3 | 1.096 |
| | | | | | 1000 | 3.38 | 34.42 | | 3.49 | 27.41 | 75.3 | 1.256 |
| NH 145 44 39.1 N 127 26.8 W DATE 6 JUN 62 0015 GCT WIRE 7 DRY 53.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 4 KTS BAR 25 SWELL DIRECTION 30 H 3 T 8 CLOUD 8 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.04 | 32.590 | | .44 | 0 | 12.04 | 32.59 | | .44 | 24.74 | 322.1 | 0 |
| 10 | 11.77 | 32.590 | | .46 | 10 | 11.77 | 32.59 | | .46 | 24.79 | 317.6 | .032 |
| 20 | 11.56 | 32.580 | | .43 | 20 | 11.56 | 32.58 | | .43 | 24.82 | 314.8 | .064 |
| 30 | 11.31 | 32.580 | | .46 | 30 | 11.31 | 32.58 | | .46 | 24.87 | 310.7 | .095 |
| 52 | 9.78 | 32.580 | | .64 | 50 | 9.94 | 32.58 | | .62 | 25.10 | 288.7 | .155 |
| 103 | 7.77 | 33.370 | | 1.62 | 75 | 8.65 | 32.89 | | 1.07 | 25.55 | 246.7 | .222 |
| 153 | 7.28 | 33.860 | | 2.06 | 100 | 7.84 | 33.31 | | 1.56 | 26.00 | 203.8 | .278 |
| 206 | 6.76 | 33.930 | | 2.25 | 150 | 7.29 | 33.84 | | 2.04 | 26.49 | 157.7 | .368 |
| 307 | 5.92 | 33.990 | | 2.54 | 200 | 6.82 | 33.92 | | 2.24 | 26.62 | 146.0 | .444 |
| 407 | 5.31 | 34.040 | | 2.65 | 250 | 6.37 | 33.96 | | 2.39 | 26.71 | 137.9 | .515 |
| 507 | 4.72 | 34.120 | | 2.82 | 300 | 5.97 | 33.99 | | 2.52 | 26.78 | 131.7 | .583 |
| 608 | 4.38 | 34.200 | | 3.26 | 400 | 5.35 | 34.04 | | 2.64 | 26.90 | 121.8 | .709 |
| 808 | 3.79 | 34.320 | | 3.02 | 500 | 4.76 | 34.11 | | 2.80 | 27.03 | 109.4 | .825 |
| 1006 | 3.35 | 34.410 | | 3.16 | 600 | 4.40 | 34.19 | | 3.23 | 27.13 | 100.9 | .930 |
| | | | | | 700 | 4.09 | 34.26 | | 3.22 | 27.22 | 93.0 | 1.027 |
| | | | | | 800 | 3.81 | 34.32 | | 3.04 | 27.29 | 86.3 | 1.116 |
| | | | | | 1000 | 3.36 | 34.41 | | 3.15 | 27.41 | 76.0 | 1.279 |
| NH 165 44 39.1 N 127 55.0 W DATE 6 JUN 62 0340 GCT WIRE 5 DRY 52.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 4 KTS BAR 25 SWELL DIRECTION 27 H 3 T 8 CLOUD 9 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.67 | 32.580 | 6.42 | .56 | 0 | 11.67 | 32.58 | 6.43 | .57 | 24.80 | 316.4 | 0 |
| 10 | 11.35 | 32.580 | 6.62 | .55 | 10 | 11.35 | 32.58 | 6.63 | .56 | 24.86 | 311.0 | .031 |
| 20 | 11.06 | 32.580 | 6.11 | .46 | 20 | 11.06 | 32.58 | 6.11 | .46 | 24.91 | 306.2 | .062 |
| 30 | 10.11 | 32.590 | 6.02 | .48 | 30 | 10.11 | 32.59 | 6.03 | .49 | 25.08 | 290.0 | .092 |
| 52 | 8.94 | 32.620 | 6.00 | .64 | 50 | 9.01 | 32.61 | 6.01 | .62 | 25.28 | 272.0 | .148 |
| 104 | 7.64 | 33.470 | 4.34 | 1.44 | 75 | 8.17 | 32.96 | 5.34 | .99 | 25.68 | 234.3 | .211 |
| 155 | 7.39 | 33.790 | 3.67 | 1.72 | 100 | 7.68 | 33.39 | 4.49 | 1.38 | 26.09 | 195.6 | .265 |
| 205 | 6.89 | 33.910 | 2.99 | 1.90 | 150 | 7.40 | 33.77 | 3.72 | 1.71 | 26.43 | 164.1 | .355 |
| 307 | 5.81 | 33.960 | 2.10 | 2.22 | 200 | 6.95 | 33.90 | 3.05 | 1.88 | 26.59 | 149.1 | .433 |
| 407 | 5.04 | 34.070 | 1.24 | 2.34 | 250 | 6.40 | 33.94 | 2.56 | 2.06 | 26.69 | 139.6 | .506 |
| 508 | 4.42 | 34.070 | .92 | 2.54 | 300 | 5.88 | 33.96 | 2.15 | 2.20 | 26.77 | 132.6 | .574 |
| 609 | 4.08 | 34.150 | .60 | 2.74 | 400 | 5.09 | 34.06 | 1.29 | 2.33 | 26.95 | 116.7 | .698 |
| 810 | 3.72 | 34.290 | .30 | 2.86 | 500 | 4.46 | 34.07 | .94 | 2.52 | 27.03 | 109.3 | .811 |
| 1009 | 3.33 | 34.440 | .42 | 2.78 | 600 | 4.10 | 34.14 | .63 | 2.72 | 27.12 | 101.4 | .916 |
| | | | | | 700 | 3.89 | 34.21 | .41 | 2.83 | 27.20 | 94.1 | 1.014 |
| | | | | | 800 | 3.73 | 34.28 | .30 | 2.85 | 27.27 | 87.8 | 1.105 |
| | | | | | 1000 | 3.35 | 34.43 | .41 | 2.79 | 27.43 | 74.0 | 1.267 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 45 11.0 N 127 58.2 W DATE 6 JUN 62 0916 GCT WIRE 3 DRY 51.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 26 SWELL DIRECTION 30 H 2 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.39 | 32.640 | 5.58 | .62 | 0 | 11.39 | 32.64 | 5.58 | .63 | 24.90 | 307.1 | 0 |
| 10 | 11.40 | 32.640 | 5.72 | .54 | 10 | 11.40 | 32.64 | 5.72 | .54 | 24.90 | 307.4 | .031 |
| 20 | 11.19 | 32.630 | 6.29 | .50 | 20 | 11.19 | 32.63 | 6.30 | .51 | 24.93 | 304.8 | .061 |
| 30 | 11.04 | 32.620 | 5.25 | .62 | 30 | 11.04 | 32.63 | 5.26 | .63 | 24.95 | 303.1 | .092 |
| 52 | 10.02 | 32.600 | 5.87 | .75 | 50 | 10.13 | 32.60 | 5.75 | .74 | 25.09 | 290.1 | .151 |
| 103 | 8.28 | 33.300 | 4.53 | 1.56 | 75 | 9.12 | 32.86 | 5.47 | 1.11 | 25.46 | 255.3 | .219 |
| 154 | 7.57 | 33.790 | 3.78 | 1.72 | 100 | 8.36 | 33.25 | 4.65 | 1.51 | 25.87 | 216.0 | .278 |
| 206 | 6.84 | 33.880 | 3.32 | 2.16 | 150 | 7.61 | 33.76 | 3.82 | 1.71 | 26.39 | 167.9 | .374 |
| 306 | 5.49 | 33.930 | 2.44 | 2.51 | 200 | 6.92 | 33.87 | 3.37 | 2.11 | 26.57 | 151.3 | .454 |
| 407 | 4.95 | 34.010 | 1.26 | 2.98 | 250 | 6.19 | 33.91 | 2.95 | 2.35 | 26.69 | 139.5 | .526 |
| 508 | 4.52 | 34.080 | .75 | | 300 | 5.56 | 33.93 | 2.50 | 2.50 | 26.79 | 131.0 | .594 |
| 609 | 4.37 | 34.160 | .42 | 3.02 | 400 | 4.97 | 34.00 | 1.34 | 2.95 | 26.92 | 119.7 | .719 |
| 810 | 3.91 | 34.310 | .32 | 3.26 | 500 | 4.55 | 34.07 | .77 | 3.00 | 27.02 | 109.9 | .834 |
| 1009 | 3.30 | 34.390 | .41 | 3.23 | 600 | 4.38 | 34.15 | .44 | 3.02 | 27.10 | 103.7 | .941 |
| | | | | | 700 | 4.18 | 34.23 | .37 | 3.13 | 27.18 | 96.0 | 1.041 |
| | | | | | 800 | 3.94 | 34.30 | .32 | 3.25 | 27.27 | 88.6 | 1.133 |
| | | | | | 1000 | 3.33 | 34.39 | .40 | 3.24 | 27.39 | 77.1 | 1.299 |
| ANH173 45 42.9 N 128 2.3 W DATE 6 JUN 62 1424 GCT WIRE 0 DRY 54.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL 0 KTS BAR 27 SWELL DIRECTION 28 H 3 T 8 CLOUD 3 AMT 7 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.16 | 32.580 | 6.31 | | 0 | 11.16 | 32.58 | 6.32 | | 24.89 | 307.6 | 0 |
| 10 | 11.11 | 32.570 | 6.38 | | 10 | 11.11 | 32.57 | 6.39 | | 24.90 | 307.6 | .031 |
| 20 | 10.88 | 32.580 | 6.30 | | 20 | 10.88 | 32.58 | 6.31 | | 24.94 | 303.2 | .061 |
| 30 | 10.57 | 32.560 | 5.90 | | 30 | 10.57 | 32.56 | 5.91 | | 24.98 | 299.7 | .091 |
| 52 | 9.24 | 32.610 | 5.79 | | 50 | 9.37 | 32.60 | 5.80 | | 25.21 | 278.4 | .149 |
| 103 | 7.90 | 33.310 | 4.27 | | 75 | 8.44 | 32.89 | 5.15 | | 25.58 | 243.4 | .214 |
| 154 | 7.24 | 33.770 | 3.86 | | 100 | 7.94 | 33.26 | 4.37 | | 25.95 | 209.0 | .271 |
| 206 | 6.66 | 33.890 | 3.74 | | 150 | 7.28 | 33.74 | 3.87 | | 26.42 | 164.7 | .364 |
| 306 | 5.50 | 33.930 | 2.24 | | 200 | 6.72 | 33.89 | 3.76 | | 26.61 | 147.4 | .442 |
| 408 | 4.79 | 34.010 | 1.39 | | 250 | 6.12 | 33.92 | 3.14 | | 26.71 | 137.9 | .514 |
| 510 | 4.50 | 34.100 | .74 | | 300 | 5.56 | 33.93 | 2.34 | | 26.79 | 131.1 | .581 |
| 610 | 4.30 | 34.200 | .51 | | 400 | 4.83 | 34.00 | 1.44 | | 26.93 | 118.2 | .705 |
| 810 | 3.79 | 34.330 | .25 | | 500 | 4.52 | 34.09 | .79 | | 27.04 | 108.4 | .819 |
| 1010 | 3.19 | 34.380 | .36 | | 600 | 4.32 | 34.19 | .52 | | 27.14 | 100.2 | .923 |
| | | | | | 700 | 4.09 | 34.27 | .35 | | 27.22 | 92.2 | 1.019 |
| | | | | | 800 | 3.82 | 34.33 | .26 | | 27.30 | 85.6 | 1.108 |
| | | | | | 1000 | 3.22 | 34.38 | .35 | | 27.40 | 76.5 | 1.270 |
| AH 165 46 14.4 N 128 4.0 W DATE 6 JUN 62 1900 GCT WIRE - DRY 54.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL 0 KTS BAR 27 SWELL DIRECTION 28 H 2 T 8 CLOUD 1 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.07 | 32.590 | 6.76 | .56 | 0 | 11.07 | 32.59 | 6.77 | .57 | 24.92 | 305.3 | 0 |
| 10 | 10.87 | 32.600 | 5.51 | .63 | 10 | 10.88 | 32.60 | 5.52 | .63 | 24.96 | 301.4 | .030 |
| 20 | 10.68 | 32.590 | 5.18 | .58 | 20 | 10.68 | 32.59 | 5.19 | .59 | 24.99 | 299.1 | .060 |
| 30 | 10.57 | 32.590 | 5.62 | .57 | 30 | 10.57 | 32.59 | 5.63 | .57 | 25.01 | 297.5 | .090 |
| 50 | 8.80 | 32.630 | 5.48 | .67 | 50 | 8.80 | 32.63 | 5.48 | .68 | 25.33 | 267.3 | .147 |
| 101 | 7.58 | 33.140 | 4.56 | 1.28 | 75 | 7.85 | 32.83 | 5.10 | .95 | 25.62 | 239.1 | .210 |
| 150 | 7.28 | 33.760 | 3.42 | 1.60 | 100 | 7.60 | 33.13 | 4.58 | 1.27 | 25.89 | 214.4 | .267 |
| 201 | 6.71 | 33.890 | 2.95 | 1.78 | 150 | 7.29 | 33.76 | 3.42 | 1.61 | 26.43 | 163.2 | .361 |
| 302 | 5.61 | | 2.03 | 2.26 | 200 | 6.72 | 33.89 | 2.96 | 1.78 | 26.61 | 147.3 | .439 |
| 402 | 5.03 | 34.020 | 1.26 | 2.50 | 250 | 6.14 | 33.95 | 2.49 | 2.02 | 26.73 | 136.1 | .509 |
| 504 | 4.64 | 34.110 | .70 | 2.84 | 300 | 5.63 | 33.99 | 2.05 | 2.25 | 26.83 | 127.4 | .575 |
| 604 | 4.38 | 34.190 | .51 | 2.72 | 400 | 5.04 | 34.02 | 1.27 | 2.50 | 26.92 | 119.4 | .699 |
| 804 | 3.75 | 34.330 | .43 | 2.76 | 500 | 4.65 | 34.11 | .72 | 2.83 | 27.03 | 108.8 | .813 |
| 1004 | 3.33 | 34.400 | .34 | 2.78 | 600 | 4.39 | 34.19 | .51 | 2.73 | 27.13 | 101.2 | .918 |
| | | | | | 700 | 4.07 | 34.26 | .45 | 2.74 | 27.22 | 92.5 | 1.014 |
| | | | | | 800 | 3.76 | 34.33 | .43 | 2.76 | 27.30 | 84.9 | 1.103 |
| | | | | | 1000 | 3.34 | 34.40 | .34 | 2.78 | 27.40 | 76.3 | 1.264 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

AH 145 46 14.4 N 127 35.0 W DATE 6 JUN 62 2236 GCT WIRE 6 DRY 55.0 WET 51.0
WIND DIRECTION 35 VEL 1 KTS BAR 27 SWELL DIRECTION 28 H 3 T 7 CLOUD 1 AMT 2 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.43 | 32.590 | 5.06 | 1.06 | 0 | 11.43 | 32.59 | 5.06 | 1.07 | 24.85 | 311.5 | 0 |
| 10 | 10.98 | 32.590 | 5.06 | .82 | 10 | 10.98 | 32.59 | 5.06 | .83 | 24.93 | 304.0 | .031 |
| 20 | 10.84 | 32.580 | 5.95 | .63 | 20 | 10.84 | 32.58 | 5.95 | .63 | 24.95 | 302.5 | .061 |
| 30 | 10.28 | 32.580 | 5.99 | .58 | 30 | 10.28 | 32.58 | 5.99 | .59 | 25.05 | 293.5 | .091 |
| 50 | 8.96 | 32.620 | 5.63 | .84 | 50 | 8.96 | 32.63 | 5.64 | .85 | 25.29 | 270.4 | .147 |
| 101 | 7.67 | 33.120 | 4.46 | 1.45 | 75 | 8.08 | 32.82 | 5.08 | 1.15 | 25.58 | 243.4 | .211 |
| 151 | 7.35 | 33.740 | 3.32 | 1.95 | 100 | 7.68 | 33.11 | 4.48 | 1.44 | 25.86 | 216.8 | .269 |
| 202 | 6.79 | 33.890 | 3.15 | 1.89 | 150 | 7.35 | 33.73 | 3.34 | 1.94 | 26.40 | 166.8 | .365 |
| 303 | 5.67 | 33.930 | 2.42 | 2.59 | 200 | 6.81 | 33.89 | 3.16 | 1.90 | 26.60 | 148.4 | .444 |
| 403 | 4.98 | 34.000 | 1.47 | 2.76 | 250 | 6.23 | 33.93 | 2.85 | 2.19 | 26.70 | 138.7 | .515 |
| 504 | 4.51 | 34.080 | 1.28 | 3.04 | 300 | 5.70 | 33.93 | 2.45 | 2.57 | 26.77 | 132.7 | .583 |
| 603 | 4.17 | 34.160 | .60 | 3.07 | 400 | 5.00 | 34.00 | 1.49 | 2.76 | 26.91 | 120.5 | .710 |
| 801 | 3.68 | 34.280 | .47 | 3.35 | 500 | 4.53 | 34.08 | 1.29 | 3.03 | 27.02 | 109.5 | .825 |
| 999 | 3.32 | 34.420 | .38 | 3.40 | 600 | 4.18 | 34.16 | .62 | 3.07 | 27.13 | 101.0 | .930 |
| | | | | | 700 | 3.91 | 34.22 | .54 | 3.20 | 27.20 | 93.8 | 1.027 |
| | | | | | 800 | 3.68 | 34.28 | .47 | 3.35 | 27.27 | 87.5 | 1.118 |
| | | | | | 1000 | 3.32 | 34.42 | .38 | 3.40 | 27.42 | 74.5 | 1.280 |

AH 125 46 14.5 N 127 6.1 W DATE 7 JUN 62 0223 GCT WIRE 12 DRY 53.0 WET 50.0
WIND DIRECTION 3 VEL 3 KTS BAR 25 SWELL DIRECTION 28 H 3 T 8 CLOUD 1 AMT 2 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.09 | 32.580 | 6.31 | .68 | 0 | 12.09 | 32.58 | 6.32 | .68 | 24.72 | 323.8 | 0 |
| 10 | 11.23 | 32.570 | 6.18 | .71 | 10 | 11.23 | 32.57 | 6.19 | .72 | 24.87 | 309.7 | .032 |
| 20 | 11.03 | 32.560 | 5.90 | .61 | 20 | 11.03 | 32.56 | 5.91 | .62 | 24.90 | 307.2 | .063 |
| 30 | 10.90 | 32.560 | 6.44 | .59 | 30 | 10.90 | 32.56 | 6.44 | .60 | 24.92 | 305.2 | .093 |
| 50 | 10.15 | 32.570 | 6.30 | .78 | 50 | 10.15 | 32.57 | 6.31 | .79 | 25.06 | 292.5 | .153 |
| 100 | 8.24 | 32.950 | 5.25 | 1.44 | 75 | 9.13 | 32.71 | 5.85 | 1.10 | 25.33 | 267.2 | .223 |
| 150 | 7.43 | 33.680 | 3.96 | 2.04 | 100 | 8.24 | 32.96 | 5.26 | 1.45 | 25.66 | 236.1 | .286 |
| 201 | 6.91 | 33.890 | 3.34 | 2.14 | 150 | 7.44 | 33.68 | 3.97 | 2.04 | 26.35 | 171.2 | .388 |
| 301 | 5.69 | 33.930 | 2.35 | 2.48 | 200 | 6.92 | 33.89 | 3.35 | 2.14 | 26.58 | 149.8 | .468 |
| 399 | 5.11 | 34.000 | 1.47 | 2.80 | 250 | 6.29 | 33.91 | 2.83 | 2.30 | 26.68 | 140.8 | .540 |
| 500 | 4.82 | 34.120 | .74 | 3.24 | 300 | 5.70 | 33.93 | 2.36 | 2.48 | 26.77 | 132.6 | .609 |
| 599 | 4.30 | 34.170 | .53 | 3.20 | 400 | 5.11 | 34.00 | 1.46 | 2.81 | 26.90 | 121.5 | .736 |
| 797 | 3.86 | 34.300 | .32 | 3.48 | 500 | 4.82 | 34.13 | .75 | 3.24 | 27.03 | 109.4 | .851 |
| 996 | 3.44 | 34.390 | .35 | 3.33 | 600 | 4.30 | 34.17 | .53 | 3.20 | 27.12 | 101.4 | .957 |
| | | | | | 700 | 4.02 | 34.24 | .39 | 3.34 | 27.20 | 94.0 | 1.054 |
| | | | | | 800 | 3.85 | 34.30 | .32 | 3.48 | 27.27 | 87.8 | 1.145 |
| | | | | | 1000 | 3.43 | 34.39 | .35 | 3.33 | 27.39 | 78.0 | 1.311 |

AH 105 46 14.5 N 126 37.5 W DATE 7 JUN 62 0520 GCT WIRE 10 DRY 52.0 WET 50.0
WIND DIRECTION 35 VEL 4 KTS BAR 25 SWELL DIRECTION 28 H 3 T 8 CLOUD 1 AMT 2 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.15 | 32.590 | 6.41 | .48 | 0 | 12.15 | 32.59 | 6.42 | .49 | 24.72 | 324.1 | 0 |
| 10 | 12.00 | 32.580 | 5.99 | .42 | 10 | 12.00 | 32.58 | 5.99 | .42 | 24.74 | 322.4 | .032 |
| 20 | 11.56 | 32.580 | 6.25 | .45 | 20 | 11.56 | 32.58 | 6.26 | .45 | 24.82 | 314.8 | .064 |
| 30 | 11.24 | 32.580 | 6.51 | .46 | 30 | 11.24 | 32.58 | 6.52 | .46 | 24.88 | 309.5 | .095 |
| 51 | 9.35 | 32.570 | 6.13 | .67 | 50 | 9.45 | 32.57 | 6.16 | .66 | 25.17 | 281.8 | .154 |
| 101 | 7.96 | 33.260 | 4.76 | 1.42 | 75 | 8.35 | 32.85 | 5.51 | 1.03 | 25.56 | 245.2 | .220 |
| 151 | 7.47 | 33.780 | 3.51 | 1.76 | 100 | 7.96 | 33.24 | 4.79 | 1.41 | 25.93 | 210.8 | .277 |
| 202 | 6.91 | 33.900 | 3.02 | 1.92 | 150 | 7.48 | 33.77 | 3.53 | 1.76 | 26.41 | 165.3 | .371 |
| 302 | 5.85 | 33.970 | 2.26 | 2.32 | 200 | 6.93 | 33.90 | 3.03 | 1.92 | 26.59 | 149.2 | .450 |
| 402 | 5.25 | 34.050 | 1.26 | 2.48 | 250 | 6.37 | 33.95 | 2.65 | 2.12 | 26.70 | 139.1 | .522 |
| 501 | 4.89 | 34.140 | .81 | 2.68 | 300 | 5.87 | 33.97 | 2.28 | 2.31 | 26.78 | 131.7 | .590 |
| 599 | 4.60 | 34.210 | .48 | 2.72 | 400 | 5.26 | 34.05 | 1.28 | 2.48 | 26.92 | 119.8 | .715 |
| 796 | 4.05 | 34.340 | .42 | 2.84 | 500 | 4.89 | 34.14 | .81 | 2.68 | 27.03 | 109.2 | .830 |
| 995 | 3.51 | 34.410 | .21 | 2.84 | 600 | 4.60 | 34.21 | .48 | 2.72 | 27.12 | 101.9 | .935 |
| | | | | | 700 | 4.31 | 34.28 | .45 | 2.79 | 27.21 | 94.0 | 1.033 |
| | | | | | 800 | 4.04 | 34.34 | .42 | 2.84 | 27.29 | 87.0 | 1.124 |
| | | | | | 1000 | 3.50 | 34.41 | .20 | 2.84 | 27.40 | 77.2 | 1.288 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 85 46 14.4 N 126 9.0 W DATE 7 JUN 62 0903 GCT WIRE 15 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 23 SWELL DIRECTION 28 H 3 T 7 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.65 | 32.570 | 5.93 | .60 | 0 | 11.65 | 32.57 | 5.94 | .60 | 24.80 | 316.7 | 0 |
| 10 | 11.63 | 32.570 | 5.47 | .64 | 10 | 11.63 | 32.57 | 5.47 | .65 | 24.80 | 316.6 | .032 |
| 20 | 11.31 | 32.580 | 5.55 | .50 | 20 | 11.31 | 32.58 | 5.56 | .51 | 24.87 | 310.5 | .063 |
| 29 | 11.10 | 32.570 | 5.47 | .54 | 30 | 11.03 | 32.57 | 5.48 | .55 | 24.90 | 307.2 | .094 |
| 50 | 9.48 | 32.560 | 5.57 | .71 | 50 | 9.48 | 32.56 | 5.57 | .72 | 25.16 | 282.7 | .153 |
| 100 | 8.26 | 33.470 | 3.64 | 1.58 | 75 | 8.59 | 32.97 | 4.70 | 1.14 | 25.62 | 239.7 | .218 |
| 150 | 7.79 | 33.810 | 3.23 | 1.92 | 100 | 8.26 | 33.47 | 3.65 | 1.58 | 26.06 | 197.8 | .273 |
| 202 | 7.12 | 33.890 | 2.86 | 2.13 | 150 | 7.80 | 33.81 | 3.23 | 1.93 | 26.40 | 166.6 | .364 |
| 303 | 5.95 | 33.950 | 2.03 | 2.50 | 200 | 7.15 | 33.89 | 2.87 | 2.12 | 26.55 | 152.8 | .444 |
| 403 | 5.45 | 34.040 | 1.31 | 2.75 | 250 | 6.51 | 33.92 | 2.47 | 2.32 | 26.66 | 142.6 | .518 |
| 502 | 4.95 | 34.110 | .77 | 3.00 | 300 | 5.98 | 33.95 | 2.05 | 2.49 | 26.75 | 134.6 | .587 |
| 602 | 4.56 | | .48 | 3.24 | 400 | 5.46 | 34.04 | 1.33 | 2.74 | 26.89 | 123.1 | .716 |
| 800 | 3.99 | 34.320 | .29 | 3.03 | 500 | 4.96 | 34.11 | .78 | 2.99 | 27.00 | 112.2 | .833 |
| 997 | 3.57 | 34.410 | .39 | 3.18 | 600 | 4.57 | 34.18 | .48 | 3.24 | 27.10 | 103.5 | .941 |
| | | | | | 700 | 4.25 | 34.25 | .34 | 3.17 | 27.19 | 95.2 | 1.040 |
| | | | | | 800 | 3.99 | 34.33 | .29 | 3.04 | 27.28 | 87.7 | 1.132 |
| | | | | | 1000 | 3.56 | 34.41 | .39 | 3.18 | 27.39 | 78.0 | 1.297 |
| AH 65 46 14.4 N 125 39.5 W DATE 7 JUN 62 1234 GCT WIRE 10 DRY 53.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 22 SWELL DIRECTION 30 H 3 T 7 CLOUD 1 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.83 | 32.560 | 6.41 | .62 | 0 | 11.83 | 32.56 | 6.42 | .63 | 24.76 | 320.6 | 0 |
| 10 | 11.83 | 32.560 | 6.42 | .54 | 10 | 11.83 | 32.56 | 6.43 | .54 | 24.76 | 320.8 | .032 |
| 20 | 11.13 | 32.570 | 6.57 | .62 | 20 | 11.13 | 32.57 | 6.57 | .63 | 24.89 | 308.2 | .064 |
| 30 | 11.04 | 32.570 | 6.24 | .64 | 30 | 11.04 | 32.57 | 6.24 | .65 | 24.91 | 306.8 | .094 |
| 52 | 9.38 | 32.590 | 6.13 | .78 | 50 | 9.56 | 32.58 | 6.13 | .76 | 25.17 | 282.5 | .153 |
| 103 | 8.24 | 33.470 | 3.99 | 1.83 | 75 | 8.59 | 32.95 | 5.25 | 1.23 | 25.60 | 241.2 | .219 |
| 154 | 7.80 | 33.810 | 3.03 | 2.19 | 100 | 8.24 | 33.41 | 4.14 | 1.76 | 26.02 | 202.3 | .274 |
| 205 | 7.33 | 33.940 | 2.70 | 2.20 | 150 | 7.82 | 33.80 | 3.07 | 2.18 | 26.38 | 168.3 | .367 |
| 304 | 5.94 | 33.970 | 2.02 | 2.56 | 200 | 7.38 | 33.93 | 2.72 | 2.20 | 26.55 | 152.8 | .447 |
| 404 | 5.41 | 34.050 | 1.19 | 2.72 | 250 | 6.68 | 33.97 | 2.40 | 2.35 | 26.68 | 141.5 | .520 |
| 505 | 4.86 | 34.110 | .86 | 2.92 | 300 | 5.99 | 33.97 | 2.05 | 2.54 | 26.77 | 133.4 | .589 |
| 605 | 4.48 | 34.170 | .50 | 3.00 | 400 | 5.42 | 34.05 | 1.22 | 2.72 | 26.90 | 121.9 | .717 |
| 803 | 3.94 | 34.310 | .32 | 3.32 | 500 | 4.89 | 34.11 | .87 | 2.91 | 27.01 | 111.4 | .833 |
| 999 | 3.48 | 34.410 | .40 | 3.32 | 600 | 4.50 | 34.17 | .52 | 3.00 | 27.10 | 104.0 | .941 |
| | | | | | 700 | 4.20 | 34.24 | .35 | 3.16 | 27.19 | 95.8 | 1.041 |
| | | | | | 800 | 3.95 | 34.31 | .32 | 3.32 | 27.27 | 88.4 | 1.133 |
| | | | | | 1000 | 3.48 | 34.41 | .40 | 3.32 | 27.40 | 77.1 | 1.298 |
| AH 45 46 14.6 N 125 10.8 W DATE 7 JUN 62 1546 GCT WIRE 12 DRY 54.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 21 SWELL DIRECTION 30 H 3 T 8 CLOUD 1 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.50 | 31.980 | 5.12 | .51 | 0 | 12.50 | 31.98 | 5.13 | .51 | 24.18 | 375.4 | 0 |
| 10 | 12.41 | 32.060 | 6.23 | .43 | 10 | 12.41 | 32.06 | 6.23 | .43 | 24.26 | 368.0 | .037 |
| 19 | 11.27 | 32.480 | 6.85 | .46 | 20 | 11.11 | 32.50 | 6.80 | .48 | 24.83 | 313.6 | .071 |
| 29 | 9.76 | 32.530 | 6.15 | .69 | 30 | 9.69 | 32.53 | 6.15 | .70 | 25.10 | 288.0 | .101 |
| 50 | 9.08 | 32.590 | 6.25 | .80 | 50 | 9.08 | 32.59 | 6.26 | .81 | 25.25 | 274.4 | .158 |
| 100 | 8.41 | 33.500 | 4.01 | 1.66 | 75 | 8.66 | 33.01 | 5.28 | 1.20 | 25.64 | 237.5 | .222 |
| 150 | 7.78 | 33.850 | 2.94 | 2.13 | 100 | 8.41 | 33.50 | 4.02 | 1.67 | 26.07 | 197.7 | .276 |
| 200 | 7.98 | 33.940 | 3.00 | 2.15 | 150 | 7.79 | 33.85 | 2.95 | 2.14 | 26.43 | 163.5 | .366 |
| 299 | 6.13 | 33.990 | 1.55 | 2.32 | 200 | 7.98 | 33.95 | 3.01 | 2.15 | 26.47 | 160.5 | .447 |
| 399 | 5.46 | 34.060 | 1.30 | 2.68 | 250 | 7.16 | 33.97 | 2.32 | 2.21 | 26.62 | 147.5 | .524 |
| 496 | 4.79 | 34.110 | .82 | 2.84 | 300 | 6.12 | 33.99 | 1.55 | 2.32 | 26.77 | 133.3 | .594 |
| 597 | 4.50 | 34.210 | .56 | 2.72 | 400 | 5.45 | 34.06 | 1.30 | 2.68 | 26.90 | 121.3 | .722 |
| 795 | 3.99 | 34.340 | .35 | 2.96 | 500 | 4.77 | 34.11 | .81 | 2.84 | 27.03 | 109.7 | .837 |
| 993 | 3.52 | 34.420 | .41 | 3.04 | 600 | 4.49 | 34.21 | .55 | 2.72 | 27.14 | 100.5 | .942 |
| | | | | | 700 | 4.23 | 34.29 | .41 | 2.82 | 27.22 | 92.6 | 1.038 |
| | | | | | 800 | 3.98 | 34.34 | .35 | 2.96 | 27.29 | 86.2 | 1.128 |
| | | | | | 1000 | 3.50 | 34.42 | .41 | 3.04 | 27.40 | 76.5 | 1.290 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 35 46 14.4 N 124 56.3 W DATE 7 JUN 62 1800 GCT WIRE 10 DRY 54.0 WET 52.5<br>WIND DIRECTION 35 VEL 4 KTS BAR 21 SWELL DIRECTION 28 H 3 T 7 CLOUD 1 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.77 | 31.640 | 4.90 | .38 | 0 | 12.77 | 31.65 | 4.91 | .38 | 23.87 | 405.3 | 0 |
| 10 | 12.60 | 31.710 | 5.36 | .43 | 10 | 12.60 | 31.71 | 5.36 | .43 | 23.96 | 397.3 | .040 |
| 19 | 10.50 | 32.510 | 5.85 | .60 | 20 | 10.37 | 32.53 | 5.84 | .61 | 24.99 | 298.6 | .075 |
| 30 | 9.61 | 32.540 | 5.74 | .66 | 30 | 9.61 | 32.54 | 5.74 | .67 | 25.13 | 286.9 | .104 |
| 51 | 8.82 | 32.610 | 5.01 | .92 | 50 | 8.84 | 32.61 | 5.05 | .90 | 25.30 | 269.9 | .160 |
| 101 | 7.85 | 32.660 | 3.50 | 1.80 | 75 | 8.24 | 32.63 | 4.23 | 1.35 | 25.41 | 259.6 | .226 |
| 151 | 7.36 | 33.940 | 2.54 | 2.18 | 100 | 7.86 | 32.65 | 3.53 | 1.78 | 25.48 | 253.1 | .290 |
| 201 | 6.76 | 33.950 | 2.31 | 2.23 | 150 | 7.37 | 33.91 | 2.55 | 2.18 | 26.54 | 153.3 | .391 |
| 303 | 5.97 | 34.020 | 1.61 | 2.40 | 200 | 6.77 | 33.95 | 2.31 | 2.23 | 26.65 | 143.4 | .466 |
| 404 | 5.27 | 34.070 | 1.09 | 2.56 | 250 | 6.34 | 33.98 | 1.98 | 2.31 | 26.73 | 136.1 | .535 |
| 506 | 4.90 | 34.130 | .73 | 2.68 | 300 | 5.99 | 34.02 | 1.63 | 2.39 | 26.81 | 129.7 | .602 |
| 605 | 4.48 | 34.210 | .34 | 2.80 | 400 | 5.29 | 34.07 | 1.11 | 2.55 | 26.93 | 118.8 | .726 |
| | | | | | 500 | 4.92 | 34.13 | .75 | 2.67 | 27.02 | 110.4 | .841 |
| | | | | | 600 | 4.50 | 34.21 | .36 | 2.79 | 27.13 | 101.2 | .946 |
| AH 25 46 14.4 N 124 41.8 W DATE 7 JUN 62 2000 GCT WIRE 8 DRY 53.0 WET 53.0<br>WIND DIRECTION 33 VEL 4 KTS BAR 20 SWELL DIRECTION 30 H 3 T 7 CLOUD 1 AMT 1 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.45 | 30.840 | 6.43 | .54 | 0 | 12.45 | 30.84 | 6.44 | .54 | 23.31 | 458.5 | 0 |
| 10 | 11.79 | 31.930 | 6.62 | .40 | 10 | 11.79 | 31.94 | 6.63 | .40 | 24.28 | 366.6 | .041 |
| 21 | 9.53 | 32.480 | 6.04 | .75 | 20 | 9.73 | 32.45 | 6.10 | .72 | 25.04 | 294.2 | .074 |
| 32 | 9.20 | 32.510 | 5.85 | .67 | 30 | 9.26 | 32.50 | 5.88 | .69 | 25.15 | 283.4 | .103 |
| 52 | 8.44 | 33.030 | 4.48 | 1.26 | 50 | 8.51 | 32.97 | 4.63 | 1.18 | 25.63 | 238.3 | .155 |
| 78 | 8.12 | 33.560 | 3.58 | 1.70 | 75 | 8.14 | 33.51 | 3.65 | 1.66 | 26.11 | 193.0 | .209 |
| 103 | 7.69 | 33.810 | 2.85 | 1.92 | 100 | 7.74 | 33.79 | 2.92 | 1.90 | 26.39 | 167.0 | .254 |
| 156 | 7.10 | 33.940 | 2.45 | 2.09 | 150 | 7.15 | 33.93 | 2.50 | 2.08 | 26.58 | 149.5 | .333 |
| 208 | 6.63 | 34.020 | 2.38 | 2.13 | 200 | 6.70 | 34.01 | 2.39 | 2.12 | 26.71 | 137.8 | .405 |
| AH 15 46 14.4 N 124 27.3 W DATE 7 JUN 62 2245 GCT WIRE 17 DRY 54.0 WET 54.0<br>WIND DIRECTION 33 VEL 5 KTS BAR 20 SWELL DIRECTION -- H 3 T 7 CLOUD 1 AMT 2 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.87 | | 7.00 | .26 | 0 | 13.88 | 30.84 | 7.01 | .26 | 23.04 | 484.8 | 0 |
| 10 | 11.66 | 31.480 | 6.73 | .48 | 10 | 11.66 | 31.48 | 6.73 | .49 | 23.95 | 397.5 | .044 |
| 20 | 9.94 | 32.230 | 6.30 | | 20 | 9.94 | 32.23 | 6.31 | .50 | 24.83 | 313.8 | .080 |
| 51 | 8.23 | 32.910 | 4.93 | .57 | 30 | 9.01 | 32.59 | 5.91 | .52 | 25.26 | 273.6 | .109 |
| 76 | 7.85 | 33.430 | 3.19 | 1.93 | 50 | 8.23 | 32.91 | 4.98 | .56 | 25.63 | 238.7 | .160 |
| 101 | 7.34 | 33.850 | 2.69 | 2.09 | 75 | 7.86 | 33.41 | 3.25 | 1.88 | 26.07 | 196.4 | .215 |
| 153 | 6.21 | 33.980 | 1.97 | 2.29 | 100 | 7.36 | 33.84 | 2.70 | 2.08 | 26.48 | 158.3 | .259 |
| 206 | 5.90 | 34.010 | 1.72 | 2.44 | 150 | 6.27 | 33.97 | 2.00 | 2.28 | 26.73 | 134.5 | .332 |
| | | | | | 200 | 5.94 | 34.01 | 1.72 | 2.43 | 26.80 | 128.5 | .398 |
| AH 5 46 14.4 N 124 13.7 W DATE 8 JUN 62 0155 GCT WIRE 7 DRY 54.0 WET 54.0<br>WIND DIRECTION 34 VEL 5 KTS BAR 18 SWELL DIRECTION 32 H 3 T 7 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.38 | | 6.94 | .69 | 0 | 13.38 | 30.84 | 6.94 | .70 | 23.13 | 475.5 | 0 |
| 10 | 10.75 | 31.280 | 6.02 | .99 | 10 | 10.75 | 31.28 | 6.03 | 1.00 | 23.96 | 397.0 | .044 |
| 20 | 8.57 | 32.480 | 3.61 | 1.80 | 20 | 8.57 | 32.48 | 3.61 | 1.80 | 25.24 | 274.6 | .077 |
| 30 | 8.05 | 33.120 | 3.15 | 2.18 | 30 | 8.05 | 33.13 | 3.16 | 2.18 | 25.82 | 219.8 | .102 |
| 40 | 7.77 | 33.650 | 2.00 | 2.52 | 50 | 7.33 | 33.79 | 1.61 | 2.80 | 26.45 | 160.3 | .140 |
| 50 | 7.33 | 33.790 | 1.61 | 2.80 | 75 | 7.86 | 33.41 | | | 26.07 | 196.4 | .184 |
| CH 5 43 20.5 N 124 29.0 W DATE 12 JUN 62 0112 GCT WIRE 3 DRY 54.0 WET 51.0<br>WIND DIRECTION 35 VEL 5 KTS BAR 21 SWELL DIRECTION 33 H 4 T 7 CLOUD N AMT N WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.46 | 33.580 | 3.81 | | 0 | 8.46 | 33.58 | 3.82 | | 26.12 | 191.0 | 0 |
| 10 | 8.29 | 33.620 | 3.88 | | 10 | 8.29 | 33.63 | 3.89 | | 26.18 | 185.7 | .019 |
| 20 | 7.98 | 33.720 | 2.88 | | 20 | 7.98 | 33.72 | 2.89 | | 26.30 | 174.0 | .037 |
| 30 | 7.59 | 33.800 | 2.29 | | 30 | 7.59 | 33.80 | 2.29 | | 26.42 | 162.8 | .054 |
| 50 | 7.21 | 33.940 | 1.58 | | 50 | 7.21 | 33.95 | 1.58 | | 26.58 | 147.5 | .085 |
| 75 | 6.74 | 34.000 | 1.70 | | 75 | 6.74 | 34.00 | 1.71 | | 26.70 | 137.2 | .120 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 15 43 20.5 N 124 43.0 W DATE 12 JUN 62 0305 GCT WIRE - DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 21 SWELL DIRECTION 33 H 5 T 7 CLOUD 0 AMT 1 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.57 | 32.390 | 4.49 | | 0 | 9.57 | 32.39 | 4.49 | | 25.02 | 295.9 | 0 |
| 10 | 9.58 | 32.390 | 4.96 | | 10 | 9.58 | 32.39 | 4.96 | | 25.02 | 296.2 | .030 |
| 20 | 9.52 | 32.390 | 5.77 | | 20 | 9.52 | 32.39 | 5.78 | | 25.02 | 295.5 | .059 |
| 30 | 9.39 | 32.400 | 4.98 | | 30 | 9.39 | 32.40 | 4.98 | | 25.05 | 292.9 | .089 |
| 49 | 8.53 | 32.710 | 3.97 | | 50 | 8.51 | 32.74 | 3.93 | | 25.45 | 255.4 | .143 |
| 99 | 7.83 | 33.860 | 2.47 | | 75 | 8.05 | 33.34 | 3.04 | | 25.99 | 204.3 | .201 |
| 148 | 6.72 | 34.000 | 1.70 | | 100 | 7.81 | 33.87 | 2.45 | | 26.44 | 162.0 | .247 |
| 199 | 6.29 | 34.030 | 1.47 | | 150 | 6.70 | 34.00 | 1.69 | | 26.70 | 137.8 | .322 |
| 248 | 5.87 | 34.080 | 1.17 | | 200 | 6.28 | 34.03 | 1.46 | | 26.78 | 131.0 | .389 |
| | | | | | 250 | 5.85 | 34.08 | 1.16 | | 26.87 | 122.5 | .452 |
| CH 25 43 20.5 N 124 55.5 W DATE 12 JUN 62 0500 GCT WIRE 17 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 6 KTS BAR 22 SWELL DIRECTION 34 H 7 T 7 CLOUD 0 AMT 3 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.34 | 32.250 | 6.73 | | 0 | 10.34 | 32.25 | 6.73 | | 24.78 | 318.4 | 0 |
| 10 | 10.34 | 32.250 | 6.81 | | 10 | 10.34 | 32.25 | 6.82 | | 24.78 | 318.6 | .032 |
| 19 | 10.33 | 32.280 | 6.38 | | 20 | 10.33 | 32.29 | 6.39 | | 24.81 | 316.1 | .064 |
| 28 | 10.25 | 32.360 | 6.52 | | 30 | 10.16 | 32.39 | 6.50 | | 24.92 | 306.0 | .095 |
| 49 | 9.15 | 32.740 | 5.96 | | 50 | 9.11 | 32.76 | 5.91 | | 25.38 | 262.4 | .152 |
| 98 | 8.08 | 33.710 | 3.47 | | 75 | 8.42 | 33.29 | 4.63 | | 25.90 | 213.0 | .211 |
| 147 | 7.59 | 33.920 | 2.78 | | 100 | 8.06 | 33.73 | 3.42 | | 26.29 | 176.1 | .260 |
| 196 | 6.83 | 33.990 | 2.03 | | 150 | 7.54 | 33.93 | 2.73 | | 26.52 | 154.8 | .342 |
| 294 | 6.03 | 34.060 | 1.47 | | 200 | 6.78 | 33.99 | 2.00 | | 26.68 | 140.3 | .416 |
| 391 | 5.67 | 34.150 | .88 | | 250 | 6.30 | 34.03 | 1.65 | | 26.78 | 131.8 | .484 |
| 490 | 5.00 | 34.220 | .51 | | 300 | 6.01 | 34.07 | 1.43 | | 26.84 | 126.3 | .548 |
| 589 | 4.52 | 34.290 | .45 | | 400 | 5.61 | 34.16 | .84 | | 26.96 | 116.1 | .670 |
| | | | | | 500 | 4.94 | 34.23 | .49 | | 27.10 | 103.2 | .779 |
| | | | | | 600 | 4.47 | 34.30 | .46 | | 27.21 | 93.9 | .878 |
| CH 35 43 20.5 N 125 10.5 W DATE 12 JUN 62 0730 GCT WIRE 25 DRY 54.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 5 KTS BAR 22 SWELL DIRECTION 33 H 6 T 7 CLOUD 0 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.51 | 30.910 | 6.46 | | 0 | 12.51 | 30.92 | 6.46 | | 23.35 | 454.4 | 0 |
| 9 | 12.47 | 30.950 | 6.31 | | 10 | 12.46 | 30.96 | 6.32 | | 23.40 | 450.2 | .045 |
| 18 | 12.02 | 31.280 | 6.41 | | 20 | 11.62 | 31.51 | 6.43 | | 23.98 | 394.9 | .087 |
| 28 | 9.92 | 32.470 | 6.46 | | 30 | 9.74 | 32.55 | 6.43 | | 25.11 | 287.1 | .122 |
| 48 | 9.20 | 32.670 | 5.97 | | 50 | 9.16 | 32.70 | 5.90 | | 25.32 | 267.6 | .177 |
| 96 | 8.62 | 33.440 | 4.21 | | 75 | 8.78 | 33.10 | 5.02 | | 25.69 | 232.8 | .240 |
| 146 | 7.90 | 33.860 | 2.63 | | 100 | 8.56 | 33.48 | 4.06 | | 26.03 | 201.5 | .294 |
| 196 | 7.17 | | 2.21 | | 150 | 7.84 | 33.88 | 2.57 | | 26.44 | 162.7 | .385 |
| 295 | 5.96 | 34.050 | 1.54 | | 200 | 7.11 | 34.03 | 2.18 | | 26.67 | 142.0 | .461 |
| 392 | 5.41 | 34.090 | 1.09 | | 250 | 6.45 | 33.99 | 1.82 | | 26.73 | 136.7 | .531 |
| 492 | 4.92 | 34.160 | .68 | | 300 | 5.92 | 34.05 | 1.51 | | 26.84 | 126.2 | .596 |
| 592 | 4.62 | 34.240 | .31 | | 400 | 5.37 | 34.09 | 1.06 | | 26.94 | 117.7 | .718 |
| 795 | 4.04 | 34.370 | .40 | | 500 | 4.89 | 34.17 | .64 | | 27.05 | 107.1 | .831 |
| 995 | 3.55 | 34.430 | .47 | | 600 | 4.60 | 34.25 | .31 | | 27.15 | 99.2 | .934 |
| | | | | | 700 | 4.30 | 34.32 | .36 | | 27.24 | 91.2 | 1.029 |
| | | | | | 800 | 4.03 | 34.37 | .40 | | 27.31 | 84.6 | 1.117 |
| | | | | | 1000 | 3.54 | 34.43 | .47 | | 27.41 | 76.2 | 1.277 |
| CH 45 43 20.5 N 125 24.5 W DATE 12 JUN 62 1040 GCT WIRE 17 DRY 54.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 5 KTS BAR 22 SWELL DIRECTION 33 H 6 T 7 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.18 | 31.190 | 6.53 | | 0 | 12.18 | 31.19 | 6.54 | | 23.63 | 427.9 | 0 |
| 10 | 12.20 | 31.190 | 6.13 | | 10 | 12.20 | 31.19 | 6.14 | | 23.63 | 428.4 | .043 |
| 19 | 12.00 | 31.360 | 5.87 | | 20 | 11.97 | 31.42 | 5.92 | | 23.85 | 407.7 | .085 |
| 29 | 11.58 | 32.040 | 6.42 | | 30 | 11.48 | 32.08 | 6.42 | | 24.45 | 350.5 | .123 |
| 49 | 9.32 | 32.620 | 5.80 | | 50 | 9.27 | 32.65 | 5.77 | | 25.26 | 273.5 | .185 |
| 96 | 8.56 | 33.520 | 4.35 | | 75 | 8.90 | 33.19 | 4.98 | | 25.74 | 227.8 | .248 |
| 145 | 7.76 | 33.900 | 3.07 | | 100 | 8.48 | 33.57 | 4.22 | | 26.10 | 194.1 | .300 |
| 193 | 7.57 | 33.980 | 2.78 | | 150 | 7.73 | 33.92 | 3.02 | | 26.49 | 158.2 | .388 |
| 287 | 6.22 | 34.020 | 2.16 | | 200 | 7.48 | 33.99 | 2.73 | | 26.58 | 150.4 | .465 |
| 380 | 5.44 | 34.090 | | | 250 | 6.79 | 34.01 | 2.41 | | 26.69 | 139.8 | .538 |
| 476 | 5.15 | 34.170 | | | 300 | 6.08 | 34.03 | 2.06 | | 26.80 | 130.0 | .605 |
| 572 | 4.73 | 34.210 | .55 | | 400 | 5.36 | 34.11 | 1.40 | | 26.95 | 116.6 | .729 |
| 761 | 4.17 | 34.330 | .39 | | 500 | 5.05 | 34.18 | .86 | | 27.05 | 107.9 | .841 |
| 951 | 3.63 | 34.410 | .39 | | 600 | 4.64 | 34.23 | .50 | | 27.13 | 101.1 | .945 |
| | | | | | 700 | 4.33 | 34.29 | .39 | | 27.21 | 93.5 | 1.043 |
| | | | | | 800 | 4.06 | 34.35 | .39 | | 27.29 | 86.6 | 1.133 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 65 43 20.5 N 125 51.3 W DATE 12 JUN 62 1500 GCT WIRE 8 DRY 54.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 5 KTS BAR 22 SWELL DIRECTION 32 H 7 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.37 | 30.850 | 5.57 | | 0 | 13.38 | 30.85 | 5.57 | | 23.14 | 474.6 | 0 |
| 10 | 13.36 | 30.850 | 5.61 | | 10 | 13.36 | 30.85 | 5.61 | | 23.14 | 474.6 | .047 |
| 21 | 13.33 | 30.890 | 5.82 | | 20 | 13.33 | 30.86 | 5.79 | | 23.15 | 474.2 | .095 |
| 32 | 11.44 | 32.380 | 6.49 | | 30 | 11.83 | 32.09 | 6.37 | | 24.39 | 356.1 | .136 |
| 54 | 9.61 | 32.560 | 6.13 | | 50 | 9.81 | 32.53 | 6.29 | | 25.08 | 290.6 | .201 |
| 105 | 8.75 | 33.200 | 4.49 | | 75 | 8.97 | 32.81 | 5.54 | | 25.43 | 257.5 | .270 |
| 159 | 7.81 | 33.870 | 2.38 | | 100 | 8.83 | 33.13 | 4.68 | | 25.71 | 231.7 | .331 |
| 213 | 7.00 | 34.020 | 1.93 | | 150 | 7.96 | 33.78 | 2.69 | | 26.35 | 171.8 | .432 |
| 314 | 5.92 | 34.060 | 1.44 | | 200 | 7.18 | 34.01 | 1.96 | | 26.64 | 144.2 | .511 |
| 415 | 5.26 | 34.100 | 1.26 | | 250 | 6.55 | 34.05 | 1.71 | | 26.76 | 133.8 | .580 |
| 516 | 4.87 | 34.150 | .63 | | 300 | 6.04 | 34.05 | 1.48 | | 26.82 | 128.2 | .645 |
| 616 | 4.60 | 34.230 | .46 | | 400 | 5.34 | 34.09 | 1.29 | | 26.94 | 117.5 | .768 |
| 820 | 3.99 | 34.360 | .35 | | 500 | 4.92 | 34.14 | .73 | | 27.03 | 109.3 | .882 |
| 1023 | 3.39 | 34.440 | .39 | | 600 | 4.64 | 34.22 | .47 | | 27.12 | 102.0 | .987 |
| | | | | | 700 | 4.35 | 34.29 | .39 | | 27.21 | 93.8 | 1.085 |
| | | | | | 800 | 4.05 | 34.35 | .35 | | 27.29 | 86.6 | 1.175 |
| | | | | | 1000 | 3.46 | 34.43 | .38 | | 27.42 | 75.2 | 1.337 |
| CH 85 43 20.5 N 126 19.5 W DATE 12 JUN 62 1900 GCT WIRE 10 DRY 54.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 22 SWELL DIRECTION 33 H 10 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.36 | 30.870 | 6.03 | | 0 | 13.36 | 30.88 | 6.04 | | 23.16 | 472.9 | 0 |
| 10 | 13.36 | 30.880 | 6.14 | | 10 | 13.36 | 30.88 | 6.15 | | 23.17 | 472.4 | .047 |
| 21 | 13.32 | 30.940 | 6.04 | | 20 | 13.32 | 30.90 | 6.04 | | 23.19 | 470.6 | .094 |
| 32 | 9.95 | 32.560 | 6.41 | | 30 | 10.62 | 32.24 | 6.34 | | 24.72 | 324.2 | .134 |
| 54 | 8.97 | 32.940 | 5.58 | | 50 | 9.15 | 32.87 | 5.80 | | 25.46 | 254.9 | .192 |
| 105 | 8.58 | 33.420 | 4.45 | | 75 | 8.67 | 33.18 | 5.04 | | 25.77 | 225.2 | .252 |
| 159 | 7.83 | 33.780 | 3.46 | | 100 | 8.62 | 33.39 | 4.53 | | 25.94 | 209.4 | .306 |
| 223 | 7.07 | 33.940 | 2.78 | | 150 | 7.96 | 33.73 | 3.60 | | 26.31 | 175.1 | .402 |
| 325 | 6.02 | 34.000 | 1.96 | | 200 | 7.33 | 33.90 | 2.99 | | 26.54 | 154.2 | .485 |
| 427 | 5.16 | 34.050 | .88 | | 250 | 6.77 | 33.97 | 2.56 | | 26.66 | 142.8 | .559 |
| 520 | 4.63 | 34.110 | .77 | | 300 | 6.26 | 34.00 | 2.16 | | 26.75 | 134.6 | .628 |
| 622 | 4.53 | 34.230 | .39 | | 400 | 5.36 | 34.04 | 1.13 | | 26.90 | 122.0 | .757 |
| 827 | 3.94 | 34.340 | .37 | | 500 | 4.72 | 34.09 | .79 | | 27.02 | 110.4 | .873 |
| 1031 | 3.36 | 34.410 | .48 | | 600 | 4.54 | 34.20 | .47 | | 27.12 | 101.7 | .979 |
| | | | | | 700 | 4.34 | 34.28 | .38 | | 27.21 | 94.0 | 1.077 |
| | | | | | 800 | 4.03 | 34.33 | .37 | | 27.28 | 87.7 | 1.167 |
| | | | | | 1000 | 3.45 | 34.40 | .45 | | 27.39 | 77.4 | 1.332 |
| CH 105 43 21.0 N 126 45.5 W DATE 12 JUN 62 2310 GCT WIRE 32 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 6 KTS BAR 22 SWELL DIRECTION 33 H 8 T 8 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.38 | 31.780 | | | 0 | 13.38 | 31.78 | | | 23.86 | 406.4 | 0 |
| 9 | 13.39 | 31.780 | | | 10 | 13.38 | 31.79 | | | 23.86 | 406.1 | .041 |
| 19 | 13.33 | 31.890 | | | 20 | 13.27 | 31.96 | | | 24.01 | 392.2 | .081 |
| 29 | 12.66 | 32.570 | | | 30 | 12.60 | 32.59 | | | 24.63 | 333.1 | .117 |
| 48 | 11.64 | 32.630 | | | 50 | 11.50 | 32.65 | | | 24.89 | 309.3 | .181 |
| 94 | 8.92 | 33.290 | | | 75 | 9.94 | 32.98 | | | 25.41 | 259.3 | .252 |
| 142 | 8.27 | 33.810 | | | 100 | 8.77 | 33.37 | | | 25.91 | 212.9 | .311 |
| 193 | 7.96 | 33.940 | | | 150 | 8.22 | 33.85 | | | 26.36 | 170.4 | .407 |
| 287 | 6.34 | 34.040 | | | 200 | 7.85 | 33.95 | | | 26.50 | 158.0 | .489 |
| 384 | 5.35 | 34.000 | | | 250 | 7.02 | 34.02 | | | 26.67 | 142.2 | .564 |
| 481 | 4.68 | 34.080 | | | 300 | 6.18 | 34.04 | | | 26.79 | 130.7 | .632 |
| 578 | 4.37 | | | | 400 | 5.22 | 34.01 | | | 26.89 | 122.2 | .759 |
| 773 | 3.88 | 34.330 | | | 500 | 4.60 | 34.10 | | | 27.03 | 108.8 | .874 |
| 969 | 3.56 | 34.400 | | | 600 | 4.31 | 34.19 | | | 27.14 | 99.9 | .978 |
| | | | | | 700 | 4.04 | 34.28 | | | 27.23 | 91.3 | 1.074 |
| | | | | | 800 | 3.83 | 34.34 | | | 27.31 | 84.3 | 1.162 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 125 43 20.5 N 127 13.6 W DATE 13 JUN 62 0333 GCT WIRE 10 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 21 SWELL DIRECTION 34 H 6 T 7 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.23 | 32.740 | 6.01 | | 0 | 12.23 | 32.75 | 6.02 | | 24.82 | 314.5 | 0 |
| 10 | 12.24 | 32.730 | 5.92 | | 10 | 12.24 | 32.73 | 5.93 | | 24.81 | 315.6 | .031 |
| 21 | 12.24 | 32.730 | 5.99 | | 20 | 12.24 | 32.73 | 5.99 | | 24.81 | 316.1 | .063 |
| 32 | 12.23 | 32.730 | 5.69 | | 30 | 12.23 | 32.73 | 5.75 | | 24.81 | 316.1 | .095 |
| 54 | 9.72 | 32.870 | 5.82 | | 50 | 10.25 | 32.84 | 5.79 | | 25.25 | 274.7 | .154 |
| 105 | 9.15 | 33.350 | 3.35 | | 75 | 9.49 | 33.06 | 4.91 | | 25.55 | 246.7 | .219 |
| 159 | 8.27 | 33.830 | 2.94 | | 100 | 9.21 | 33.30 | 3.63 | | 25.78 | 224.9 | .278 |
| 214 | 7.55 | 33.990 | 2.57 | | 150 | 8.42 | 33.76 | 3.01 | | 26.27 | 179.6 | .379 |
| 315 | 6.49 | 34.020 | 1.95 | | 200 | 7.72 | 33.97 | 2.66 | | 26.53 | 154.8 | .463 |
| 416 | 5.77 | 34.040 | 1.52 | | 250 | 7.13 | 34.00 | 2.33 | | 26.64 | 145.2 | .538 |
| 518 | 5.11 | 34.140 | .74 | | 300 | 6.63 | 34.02 | 2.03 | | 26.72 | 138.0 | .608 |
| 617 | 4.72 | 34.190 | .60 | | 400 | 5.87 | 34.03 | 1.59 | | 26.83 | 128.4 | .741 |
| 819 | 4.17 | 34.330 | .32 | | 500 | 5.21 | 34.12 | .87 | | 26.98 | 114.4 | .863 |
| 1020 | 3.63 | 34.430 | .42 | | 600 | 4.78 | 34.18 | .60 | | 27.08 | 106.1 | .973 |
| | | | | | 700 | 4.47 | 34.25 | .46 | | 27.16 | 98.4 | 1.075 |
| | | | | | 800 | 4.21 | 34.32 | .34 | | 27.25 | 90.9 | 1.170 |
| | | | | | 1000 | 3.68 | 34.42 | .39 | | 27.39 | 78.6 | 1.339 |
| CH 145 43 20.5 N 127 40.0 W DATE 13 JUN 62 0710 GCT WIRE 15 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 21 SWELL DIRECTION 34 H 8 T 8 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.68 | 32.730 | 6.12 | 1.10 | 0 | 12.68 | 32.73 | 6.13 | 1.11 | 24.73 | 323.4 | 0 |
| 10 | 12.68 | 32.730 | 5.92 | 1.02 | 10 | 12.68 | 32.73 | 5.93 | 1.02 | 24.73 | 323.6 | .032 |
| 21 | 12.68 | 32.740 | 6.12 | .88 | 20 | 12.68 | 32.74 | 6.10 | .89 | 24.73 | 323.4 | .065 |
| 31 | 12.68 | 32.730 | 6.12 | .84 | 30 | 12.68 | 32.73 | 6.12 | .84 | 24.73 | 324.3 | .097 |
| 43 | 10.74 | 32.750 | 6.12 | 1.18 | 50 | 10.12 | 32.76 | 6.12 | 1.31 | 25.21 | 277.9 | .157 |
| 104 | 8.65 | 33.040 | 5.55 | 1.80 | 75 | 8.71 | 32.86 | 5.97 | 1.66 | 25.51 | 249.8 | .223 |
| 158 | 8.47 | 33.650 | 3.81 | 1.84 | 100 | 8.79 | 33.01 | 5.62 | 1.80 | 25.62 | 240.0 | .284 |
| 212 | 7.70 | 33.900 | 2.94 | 2.87 | 150 | 8.50 | 33.56 | 4.08 | 1.82 | 26.10 | 195.6 | .393 |
| 313 | 6.18 | 33.940 | | 2.84 | 200 | 7.90 | 33.87 | 3.09 | 2.63 | 26.43 | 165.0 | .483 |
| 415 | 5.63 | 34.060 | 1.22 | 3.52 | 250 | 7.08 | 33.92 | 2.48 | 2.86 | 26.58 | 150.8 | .562 |
| 517 | 5.05 | 34.160 | .80 | 3.66 | 300 | 6.35 | 33.93 | 1.97 | 2.84 | 26.69 | 140.4 | .635 |
| 618 | 4.70 | 34.200 | .72 | 3.79 | 400 | 5.68 | 34.04 | 1.29 | 3.41 | 26.86 | 125.6 | .768 |
| 821 | 4.05 | 34.340 | .40 | 3.87 | 500 | 5.14 | 34.15 | .85 | 3.66 | 27.01 | 111.6 | .887 |
| 1024 | 3.57 | 34.420 | .48 | 3.64 | 600 | 4.75 | 34.19 | .72 | 3.77 | 27.09 | 105.0 | .995 |
| | | | | | 700 | 4.42 | 34.26 | .58 | 3.86 | 27.18 | 97.2 | 1.096 |
| | | | | | 800 | 4.11 | 34.33 | .43 | 3.86 | 27.26 | 89.1 | 1.189 |
| | | | | | 1000 | 3.62 | 34.41 | .45 | 3.68 | 27.39 | 78.5 | 1.356 |
| CH 165 43 20.5 N 128 7.8 W DATE 13 JUN 62 1210 GCT WIRE 7 DRY 51.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 21 SWELL DIRECTION 33 H 8 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.54 | 32.750 | | | 0 | 12.54 | 32.75 | | | 24.77 | 319.4 | 0 |
| 10 | 12.54 | 32.770 | | | 10 | 12.54 | 32.77 | | | 24.79 | 318.1 | .032 |
| 21 | 12.54 | 32.780 | | | 20 | 12.54 | 32.78 | | | 24.79 | 317.9 | .064 |
| 32 | 12.53 | 32.750 | | | 30 | 12.54 | 32.76 | | | 24.77 | 319.8 | .096 |
| 55 | 11.96 | 32.750 | | | 50 | 12.14 | 32.75 | | | 24.84 | 313.5 | .159 |
| 107 | 8.16 | 33.360 | | | 75 | 10.52 | 32.94 | | | 25.28 | 272.0 | .232 |
| 160 | 7.46 | 33.890 | | | 100 | 8.68 | 33.26 | | | 25.83 | 220.2 | .294 |
| 215 | 6.75 | 33.940 | | | 150 | 7.47 | 33.81 | | | 26.44 | 162.3 | .389 |
| 317 | 5.73 | 33.990 | | | 200 | 6.94 | 33.93 | | | 26.61 | 147.3 | .466 |
| 419 | 5.05 | 34.060 | | | 250 | 6.36 | 33.96 | | | 26.71 | 138.0 | .538 |
| 521 | 4.82 | 34.160 | | | 300 | 5.87 | 33.98 | | | 26.79 | 130.8 | .605 |
| 622 | 4.42 | 34.230 | | | 400 | 5.15 | 34.05 | | | 26.93 | 118.7 | .730 |
| 824 | 4.07 | 34.360 | | | 500 | 4.86 | 34.14 | | | 27.04 | 108.7 | .843 |
| 1027 | 3.33 | 34.430 | | | 600 | 4.51 | 34.22 | | | 27.14 | 100.4 | .948 |
| | | | | | 700 | 4.27 | 34.28 | | | 27.22 | 93.2 | 1.045 |
| | | | | | 800 | 4.11 | 34.35 | | | 27.28 | 87.4 | 1.135 |
| | | | | | 1000 | 3.45 | 34.42 | | | 27.41 | 75.8 | 1.298 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CRH159 42 40.9 N 128 0.0 W DATE 13 JUN 62 1900 GCT WIRE 11 DRY 52•0 WET 50•0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 5 KTS BAR 19 SWELL DIRECTION 34 H 8 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.54 | 32.650 | 6.22 | .50 | 0 | 12.54 | 32.65 | 6.22 | .51 | 24.69 | 326.7 | 0 |
| 10 | 12.53 | 32.650 | 6.06 | .58 | 10 | 12.53 | 32.65 | 6.07 | .59 | 24.69 | 326.8 | .033 |
| 20 | 12.52 | 32.650 | 6.18 | .50 | 20 | 12.52 | 32.65 | 6.19 | .51 | 24.70 | 326.8 | .065 |
| 31 | 12.07 | 32.660 | 6.25 | .49 | 30 | 12.13 | 32.66 | 6.25 | .49 | 24.77 | 319.7 | .098 |
| 52 | 9.69 | 32.890 | 5.86 | .91 | 50 | 9.94 | 32.86 | 5.91 | .86 | 25.32 | 267.7 | .156 |
| 104 | 8.43 | 33.420 | 4.42 | 1.62 | 75 | 8.68 | 33.14 | 5.24 | 1.28 | 25.74 | 228.6 | .218 |
| 156 | 7.83 | 33.810 | 3.35 | 1.90 | 100 | 8.53 | 33.38 | 4.54 | 1.58 | 25.95 | 208.4 | .273 |
| 208 | 7.00 | 33.930 | 3.09 | 2.16 | 150 | 7.89 | 33.78 | 3.44 | 1.88 | 26.36 | 170.9 | .368 |
| 310 | 6.05 | 34.020 | 1.84 | 2.54 | 200 | 7.13 | 33.92 | 3.11 | 2.12 | 26.58 | 150.2 | .448 |
| 412 | 5.26 | 34.040 | 1.47 | 2.70 | 250 | 6.54 | 33.98 | 2.58 | 2.34 | 26.71 | 138.6 | .520 |
| 515 | 4.53 | 34.120 | .86 | 2.90 | 300 | 6.12 | 34.02 | 1.96 | 2.51 | 26.79 | 131.4 | .588 |
| 616 | 4.08 | 34.170 | .62 | 2.96 | 400 | 5.35 | 34.04 | 1.50 | 2.69 | 26.90 | 121.7 | .714 |
| 818 | 3.95 | 34.360 | .54 | 3.14 | 500 | 4.63 | 34.11 | .94 | 2.87 | 27.04 | 108.4 | .829 |
| 1021 | 3.45 | 34.480 | .48 | 3.06 | 600 | 4.13 | 34.16 | .64 | 2.95 | 27.13 | 100.2 | .933 |
| | | | | | 700 | 3.99 | 34.25 | .55 | 3.05 | 27.22 | 92.8 | 1.030 |
| | | | | | 800 | 3.96 | 34.34 | .55 | 3.13 | 27.29 | 86.1 | 1.119 |
| | | | | | 1000 | 3.52 | 34.47 | .49 | 3.08 | 27.44 | 73.1 | 1.278 |
| RH 165 42 0.0 N 127 52.0 W DATE 14 JUN 62 0115 GCT WIRE 3 DRY 56•0 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 17 SWELL DIRECTION 34 H 7 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.42 | 32.780 | 6.24 | .51 | 0 | 12.42 | 32.79 | 6.24 | .51 | 24.82 | 315.0 | 0 |
| 10 | 12.41 | 32.750 | | .44 | 10 | 12.41 | 32.75 | 5.38 | .44 | 24.80 | 317.2 | .032 |
| 20 | 12.42 | 32.750 | | .49 | 20 | 12.42 | 32.75 | 5.41 | .49 | 24.79 | 317.6 | .063 |
| 31 | 12.40 | 32.750 | 5.44 | .50 | 30 | 12.41 | 32.75 | 5.45 | .50 | 24.79 | 318.0 | .095 |
| 52 | 10.72 | 32.720 | 5.50 | .61 | 50 | 10.91 | 32.72 | 5.48 | .60 | 25.05 | 294.0 | .156 |
| 104 | 9.26 | 32.830 | 5.74 | .88 | 75 | 9.79 | 32.72 | 5.70 | .71 | 25.24 | 276.2 | .228 |
| 155 | 8.49 | 33.400 | 4.42 | 1.42 | 100 | 9.29 | 32.81 | 5.72 | .85 | 25.38 | 262.5 | .295 |
| 208 | 7.71 | 33.810 | 3.61 | 1.86 | 150 | 8.55 | 33.34 | 4.57 | 1.36 | 25.91 | 212.9 | .414 |
| 309 | 6.06 | 33.940 | 2.80 | 2.36 | 200 | 7.83 | 33.76 | 3.71 | 1.80 | 26.35 | 171.8 | .510 |
| 411 | 5.30 | 34.020 | 1.54 | 2.73 | 250 | 6.98 | 33.92 | 3.24 | 2.10 | 26.60 | 149.2 | .590 |
| 513 | 4.59 | 34.060 | 1.23 | 2.75 | 300 | 6.19 | 33.93 | 2.86 | 2.33 | 26.71 | 138.9 | .662 |
| 614 | 4.23 | 34.170 | .63 | 2.96 | 400 | 5.36 | 34.01 | 1.66 | 2.70 | 26.88 | 123.6 | .793 |
| 815 | 3.78 | 34.320 | .42 | 3.22 | 500 | 4.67 | 34.05 | 1.25 | 2.75 | 26.99 | 112.9 | .912 |
| 1015 | 3.41 | 34.430 | .57 | 3.01 | 600 | 4.27 | 34.15 | .71 | 2.93 | 27.11 | 102.3 | 1.019 |
| | | | | | 700 | 4.01 | 34.24 | .44 | 3.11 | 27.21 | 93.4 | 1.117 |
| | | | | | 800 | 3.81 | 34.31 | .44 | 3.21 | 27.29 | 86.6 | 1.207 |
| | | | | | 1000 | 3.44 | 34.42 | .55 | 3.04 | 27.41 | 75.7 | 1.369 |
| RH 145 42 0.0 N 127 26.0 W DATE 14 JUN 62 1600 GCT WIRE - DRY 55•0 WET 54•0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 4 KTS BAR 15 SWELL DIRECTION 33 H 7 T 7 CLOUD 0 AMT 9 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.90 | 32.740 | 5.71 | .50 | 0 | 12.90 | 32.75 | 5.71 | .51 | 24.69 | 326.8 | 0 |
| 10 | 12.91 | 32.740 | 5.80 | .52 | 10 | 12.91 | 32.75 | 5.81 | .52 | 24.69 | 327.2 | .033 |
| 20 | 12.91 | 32.740 | 5.50 | .46 | 20 | 12.91 | 32.75 | 5.51 | .46 | 24.69 | 327.4 | .065 |
| 31 | 12.90 | 32.750 | 5.92 | .43 | 30 | 12.90 | 32.75 | 5.87 | .43 | 24.70 | 327.1 | .098 |
| 52 | 12.55 | 32.740 | 5.64 | .51 | 50 | 12.61 | 32.74 | 5.70 | .50 | 24.75 | 322.6 | .163 |
| 104 | 9.15 | 32.950 | 5.20 | 1.05 | 75 | 11.10 | 32.78 | 5.47 | .71 | 25.06 | 293.4 | .240 |
| 156 | 8.42 | 33.660 | 4.02 | 1.72 | 100 | 9.43 | 32.92 | 5.24 | 1.00 | 25.45 | 256.4 | .309 |
| 208 | 7.62 | 33.900 | 3.21 | 2.07 | 150 | 8.44 | 33.58 | 4.17 | 1.65 | 26.12 | 193.5 | .421 |
| 309 | 5.98 | 33.930 | 2.69 | 2.32 | 200 | 7.75 | 33.88 | 3.31 | 2.03 | 26.46 | 161.6 | .510 |
| 411 | 5.39 | 34.040 | 1.37 | 2.88 | 250 | 6.88 | 33.91 | 2.96 | 2.19 | 26.61 | 148.3 | .587 |
| 514 | 4.52 | 34.060 | 1.22 | 2.88 | 300 | 6.11 | 33.93 | 2.72 | 2.30 | 26.72 | 137.9 | .659 |
| 616 | 4.19 | 34.160 | .65 | 3.12 | 400 | 5.43 | 34.03 | 1.50 | 2.83 | 26.88 | 123.4 | .790 |
| 819 | 3.74 | 34.330 | .49 | 3.06 | 500 | 4.63 | 34.06 | 1.24 | 2.88 | 27.00 | 112.2 | .907 |
| 1020 | 3.38 | 34.430 | .39 | 3.18 | 600 | 4.22 | 34.14 | .74 | 3.08 | 27.11 | 102.7 | 1.015 |
| | | | | | 700 | 3.98 | 34.24 | .50 | 3.10 | 27.21 | 93.4 | 1.113 |
| | | | | | 800 | 3.77 | 34.32 | .50 | 3.08 | 27.29 | 86.8 | 1.202 |
| | | | | | 1000 | 3.41 | 34.42 | .40 | 3.16 | 27.41 | 75.4 | 1.363 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| BH 125 42 0.0 N 126 59.7 W DATE 14 JUN 62 2045 GCT WIRE 7 DRY 56.0 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 15 SWELL DIRECTION 33 H 6 T 8 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.90 | 32.610 | 6.15 | .43 | 0 | 12.90 | 32.61 | 6.16 | .43 | 24.59 | 336.3 | 0 |
| 10 | 12.91 | 32.610 | 6.15 | .43 | 10 | 12.91 | 32.61 | 6.16 | .43 | 24.59 | 336.7 | .034 |
| 20 | 12.86 | 32.620 | 6.06 | .43 | 20 | 12.86 | 32.63 | 6.07 | .43 | 24.61 | 335.3 | .067 |
| 31 | 12.84 | 32.610 | 6.03 | .40 | 30 | 12.84 | 32.61 | 6.03 | .40 | 24.60 | 336.0 | .101 |
| 52 | 12.84 | 32.610 | 6.03 | .39 | 50 | 12.84 | 32.61 | 6.03 | .39 | 24.60 | 336.5 | .168 |
| 104 | 9.36 | 33.260 | 5.08 | 1.18 | 75 | 11.45 | 32.85 | 5.70 | .69 | 25.05 | 294.0 | .247 |
| 156 | 8.46 | 33.680 | 4.05 | 1.62 | 100 | 9.67 | 33.20 | 5.18 | 1.10 | 25.63 | 239.6 | .314 |
| 208 | 7.73 | 33.880 | 3.60 | 1.80 | 150 | 8.49 | 33.64 | 4.16 | 1.58 | 26.16 | 189.5 | .421 |
| 309 | 6.24 | 33.940 | 2.98 | 2.07 | 200 | 7.84 | 33.86 | 3.65 | 1.78 | 26.43 | 164.7 | .509 |
| 410 | 5.32 | 34.000 | 2.29 | 2.48 | 250 | 7.08 | 33.93 | 3.33 | 1.91 | 26.59 | 149.6 | .588 |
| 512 | 4.62 | 34.060 | 1.18 | 2.71 | 300 | 6.36 | 33.93 | 3.03 | 2.05 | 26.69 | 140.6 | .660 |
| 608 | 4.35 | 34.140 | .67 | 2.90 | 400 | 5.39 | 33.99 | 2.37 | 2.44 | 26.86 | 125.5 | .793 |
| 815 | 3.88 | 34.320 | .35 | 2.97 | 500 | 4.69 | 34.05 | 1.31 | 2.69 | 26.99 | 113.2 | .913 |
| 1016 | 3.46 | 34.430 | .30 | 3.01 | 600 | 4.36 | 34.13 | .70 | 2.89 | 27.09 | 105.0 | 1.022 |
| | | | | | 700 | 4.13 | 34.22 | .45 | 2.96 | 27.18 | 96.1 | 1.122 |
| | | | | | 800 | 3.91 | 34.31 | .35 | 2.96 | 27.27 | 88.0 | 1.214 |
| | | | | | 1000 | 3.49 | 34.42 | .30 | 3.01 | 27.41 | 76.3 | 1.378 |
| BH 105 42 0.0 N 126 32.0 W DATE 15 JUN 62 0050 GCT WIRE 5 DRY 56.0 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 14 SWELL DIRECTION 34 H 6 T 7 CLOUD 0 AMT 10 WEATHER 20 | | | | | | | | | | | | |
| 0 | 12.95 | 32.620 | 5.85 | .50 | 0 | 12.95 | 32.63 | 5.85 | .51 | 24.59 | 336.5 | 0 |
| 10 | 12.95 | 32.610 | 5.63 | .43 | 10 | 12.95 | 32.61 | 5.64 | .43 | 24.58 | 337.5 | .034 |
| 20 | 12.93 | 32.600 | 4.84 | .44 | 20 | 12.93 | 32.60 | 4.84 | .44 | 24.58 | 338.0 | .067 |
| 31 | 12.87 | 32.650 | 5.67 | .43 | 30 | 12.88 | 32.64 | 5.57 | .43 | 24.62 | 334.3 | .101 |
| 52 | 12.37 | 32.750 | 5.99 | .54 | 50 | 12.44 | 32.74 | 5.96 | .52 | 24.78 | 319.6 | .166 |
| 103 | 9.74 | 33.170 | 5.04 | 1.16 | 75 | 11.23 | 32.92 | 5.72 | .79 | 25.14 | 285.6 | .242 |
| 155 | 8.29 | 33.710 | 3.99 | 1.78 | 100 | 9.91 | 33.14 | 5.13 | 1.12 | 25.54 | 247.6 | .309 |
| 208 | 7.64 | 33.910 | 3.70 | 1.97 | 150 | 8.38 | 33.66 | 4.08 | 1.73 | 26.19 | 186.4 | .417 |
| 309 | 6.17 | 33.970 | 2.54 | 2.21 | 200 | 7.71 | 33.89 | 3.73 | 1.96 | 26.47 | 160.3 | .504 |
| 411 | 5.33 | 33.990 | 1.81 | 2.58 | 250 | 7.01 | 33.96 | 3.24 | 2.07 | 26.63 | 146.3 | .580 |
| 514 | 4.88 | 34.070 | 1.33 | 3.00 | 300 | 6.29 | 33.96 | 2.65 | 2.19 | 26.72 | 137.5 | .651 |
| 615 | 4.57 | 34.160 | | 3.08 | 400 | 5.40 | 33.99 | 1.87 | 2.54 | 26.85 | 126.0 | .783 |
| 814 | 4.05 | 34.330 | .35 | 3.38 | 500 | 4.93 | 34.06 | 1.39 | 2.95 | 26.96 | 115.7 | .904 |
| 1012 | 3.52 | 34.460 | .42 | 3.02 | 600 | 4.61 | 34.15 | .95 | 3.08 | 27.07 | 106.8 | 1.015 |
| | | | | | 700 | 4.34 | 34.24 | .61 | 3.24 | 27.17 | 97.6 | 1.117 |
| | | | | | 800 | 4.08 | 34.32 | .37 | 3.37 | 27.26 | 89.2 | 1.211 |
| | | | | | 1000 | 3.55 | 34.44 | .40 | 3.06 | 27.42 | 75.5 | 1.375 |
| BH 85 42 0.0 N 126 6.5 W DATE 15 JUN 62 0800 GCT WIRE 10 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 14 SWELL DIRECTION 34 H 6 T 7 CLOUD 0 AMT 10 WEATHER 20 | | | | | | | | | | | | |
| 0 | 12.98 | 32.720 | 6.03 | .59 | 0 | 12.98 | 32.72 | 6.04 | .60 | 24.66 | 329.7 | 0 |
| 10 | 12.98 | 32.740 | 6.14 | .59 | 10 | 12.98 | 32.76 | 6.15 | .60 | 24.69 | 327.0 | .033 |
| 20 | 13.00 | 32.720 | 6.05 | .57 | 20 | 13.00 | 32.72 | 6.06 | .57 | 24.66 | 330.5 | .066 |
| 31 | 12.97 | 32.720 | 5.85 | .58 | 30 | 12.97 | 32.72 | 5.87 | .58 | 24.66 | 330.5 | .099 |
| 52 | 12.92 | 32.740 | 6.06 | .64 | 50 | 12.94 | 32.74 | 6.03 | .63 | 24.68 | 329.2 | .165 |
| 103 | 9.70 | 33.110 | 4.99 | 1.20 | 75 | 11.60 | 32.87 | 5.72 | .85 | 25.03 | 295.8 | .243 |
| 155 | 8.66 | 33.690 | 3.81 | 1.90 | 100 | 9.92 | 33.08 | 5.09 | 1.16 | 25.49 | 252.3 | .311 |
| 207 | 7.94 | 33.890 | 3.38 | 2.08 | 150 | 8.70 | 33.64 | 3.91 | 1.84 | 26.12 | 193.0 | .423 |
| 307 | 6.46 | 33.980 | 2.40 | 2.53 | 200 | 8.03 | 33.88 | 3.42 | 2.07 | 26.41 | 166.1 | .512 |
| 405 | 5.60 | 34.060 | 1.25 | 3.02 | 250 | 7.27 | 33.95 | 2.98 | 2.26 | 26.58 | 150.7 | .592 |
| 504 | 5.17 | 34.130 | .78 | 3.00 | 300 | 6.56 | 33.97 | 2.48 | 2.50 | 26.70 | 140.2 | .664 |
| 603 | 4.65 | 34.200 | .56 | 3.30 | 400 | 5.63 | 34.06 | 1.30 | 3.00 | 26.88 | 123.8 | .796 |
| 802 | 4.14 | 34.370 | .41 | 3.42 | 500 | 5.18 | 34.13 | .79 | 3.00 | 26.99 | 113.5 | .915 |
| 1003 | 3.60 | 34.420 | .47 | 3.26 | 600 | 4.67 | 34.20 | .56 | 3.29 | 27.10 | 103.7 | 1.023 |
| | | | | | 700 | 4.36 | 34.29 | .45 | 3.42 | 27.21 | 94.0 | 1.122 |
| | | | | | 800 | 4.14 | 34.37 | .41 | 3.42 | 27.30 | 86.2 | 1.212 |
| | | | | | 1000 | 3.61 | 34.42 | .47 | 3.26 | 27.39 | 78.0 | 1.376 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH 65 42 0.0 N 125 38.8 W DATE 15 JUN 62 1153 GCT WIRE - DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 5 KTS BAR 14 SWELL DIRECTION 32 H 8 T 6 CLOUD - AMT 9 WEATHER 20 | | | | | | | | | | | | |
| 0 | 12.72 | 32.010 | | .61 | 0 | 12.72 | 32.01 | | .62 | 24.16 | 377.2 | 0 |
| 10 | 12.72 | 32.020 | | .52 | 10 | 12.72 | 32.02 | | .52 | 24.17 | 376.6 | .038 |
| 20 | 12.71 | 32.070 | | .51 | 20 | 12.71 | 32.07 | | .51 | 24.21 | 373.0 | .075 |
| 31 | 12.87 | 32.260 | | .53 | 30 | 12.85 | 32.24 | | .53 | 24.31 | 363.7 | .112 |
| 52 | 12.80 | 32.720 | | .59 | 50 | 12.83 | 32.68 | | .58 | 24.65 | 331.5 | .181 |
| 100 | 9.75 | 33.180 | | 1.31 | 75 | 11.50 | 32.99 | | .90 | 25.15 | 284.7 | .259 |
| 150 | 8.14 | 33.660 | | 1.85 | 100 | 9.75 | 33.18 | | 1.32 | 25.60 | 241.9 | .324 |
| 201 | 7.63 | 33.920 | | 2.12 | 150 | 8.14 | 33.67 | | 1.86 | 26.23 | 182.7 | .430 |
| 300 | 6.57 | 34.000 | | 2.53 | 200 | 7.63 | 33.92 | | 2.12 | 26.50 | 157.6 | .515 |
| 399 | 5.75 | 34.050 | | 2.85 | 250 | 7.10 | 34.00 | | 2.34 | 26.64 | 145.0 | .591 |
| 498 | 5.07 | 34.160 | | 3.02 | 300 | 6.57 | 34.00 | | 2.53 | 26.72 | 138.2 | .662 |
| 597 | 4.71 | 34.210 | | 3.24 | 400 | 5.74 | 34.05 | | 2.85 | 26.86 | 125.5 | .794 |
| 797 | 4.16 | 34.330 | | 3.30 | 500 | 5.06 | 34.16 | | 3.02 | 27.03 | 109.5 | .911 |
| 995 | 3.68 | 34.400 | | 3.30 | 600 | 4.70 | 34.21 | | 3.24 | 27.11 | 103.0 | 1.017 |
| | | | | | 700 | 4.41 | 34.27 | | 3.27 | 27.19 | 95.7 | 1.117 |
| | | | | | 800 | 4.15 | 34.33 | | 3.30 | 27.27 | 89.1 | 1.209 |
| | | | | | 1000 | 3.67 | 34.40 | | 3.30 | 27.37 | 79.9 | 1.378 |
| BH 45 42 0.0 N 125 17.5 W DATE 15 JUN 62 1645 GCT WIRE 6 DRY 53.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 5 KTS BAR 14 SWELL DIRECTION 34 H 6 T 8 CLOUD 0 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.61 | 32.520 | | .84 | 0 | 11.61 | 32.52 | | .85 | 24.77 | 319.7 | 0 |
| 10 | 11.58 | 32.520 | | .67 | 10 | 11.58 | 32.52 | | .68 | 24.77 | 319.4 | .032 |
| 20 | 11.11 | 32.620 | | .74 | 20 | 11.11 | 32.63 | | .75 | 24.93 | 304.1 | .063 |
| 31 | 10.50 | 32.700 | | .82 | 30 | 10.56 | 32.69 | | .81 | 25.09 | 289.9 | .093 |
| 52 | 9.49 | 32.830 | | 1.14 | 50 | 9.57 | 32.82 | | 1.10 | 25.34 | 265.5 | .148 |
| 104 | 8.58 | 33.610 | | 2.01 | 75 | 8.94 | 33.17 | | 1.56 | 25.72 | 230.1 | .210 |
| 155 | 7.88 | 33.860 | | 2.14 | 100 | 8.61 | 33.55 | | 1.95 | 26.07 | 197.4 | .264 |
| 207 | 7.51 | 33.950 | | 2.35 | 150 | 7.94 | 33.85 | | 2.13 | 26.41 | 166.0 | .355 |
| 309 | 6.11 | 34.000 | | 2.76 | 200 | 7.56 | 33.94 | | 2.32 | 26.54 | 154.5 | .435 |
| 410 | 5.18 | 34.040 | | 3.03 | 250 | 6.95 | 33.98 | | 2.53 | 26.65 | 144.0 | .509 |
| 510 | 4.82 | 34.130 | | 3.08 | 300 | 6.24 | 34.00 | | 2.73 | 26.76 | 134.3 | .579 |
| 610 | 4.60 | 34.210 | | 3.26 | 400 | 5.25 | 34.04 | | 3.01 | 26.91 | 120.7 | .706 |
| 810 | 4.13 | 34.350 | | 3.54 | 500 | 4.84 | 34.12 | | 3.08 | 27.02 | 110.0 | .821 |
| 1011 | 3.55 | 34.420 | | 3.48 | 600 | 4.62 | 34.20 | | 3.24 | 27.11 | 102.8 | .928 |
| | | | | | 700 | 4.40 | 34.28 | | 3.41 | 27.20 | 95.1 | 1.027 |
| | | | | | 800 | 4.16 | 34.34 | | 3.53 | 27.28 | 88.2 | 1.118 |
| | | | | | 1000 | 3.58 | 34.42 | | 3.49 | 27.39 | 77.8 | 1.284 |
| BH 35 42 0.0 N 124 59.8 W DATE 15 JUN 62 1825 GCT WIRE - DRY 52.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 14 SWELL DIRECTION 34 H 7 T 8 CLOUD 0 AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.63 | 32.740 | 6.31 | 1.15 | 0 | 9.63 | 32.75 | 6.32 | 1.15 | 25.28 | 270.9 | 0 |
| 10 | 9.61 | 32.740 | 5.91 | 1.03 | 10 | 9.61 | 32.75 | 5.92 | 1.04 | 25.28 | 270.7 | .027 |
| 20 | 9.54 | 32.750 | 5.69 | 1.02 | 20 | 9.54 | 32.75 | 5.69 | 1.02 | 25.30 | 269.1 | .054 |
| 30 | 9.53 | 32.750 | 6.05 | 1.08 | 30 | 9.53 | 32.75 | 6.06 | 1.08 | 25.30 | 269.1 | .081 |
| 49 | 9.19 | 32.910 | 4.94 | 1.14 | 50 | 9.17 | 32.92 | 4.91 | 1.15 | 25.46 | 251.2 | .133 |
| 100 | 8.29 | 33.660 | 3.84 | 1.82 | 75 | 8.70 | 33.30 | 4.21 | 1.44 | 25.86 | 217.2 | .192 |
| 151 | 7.81 | 33.900 | 2.68 | 2.42 | 100 | 8.29 | 33.67 | 3.85 | 1.83 | 26.21 | 184.1 | .242 |
| 203 | 7.06 | 34.010 | 2.19 | 2.49 | 150 | 7.82 | 33.90 | 2.70 | 2.41 | 26.46 | 160.7 | .328 |
| 303 | 5.92 | 34.000 | 2.00 | 2.71 | 200 | 7.11 | 34.01 | 2.21 | 2.49 | 26.65 | 143.6 | .404 |
| 403 | 5.39 | 34.090 | 1.06 | 2.89 | 250 | 6.46 | 34.01 | 2.09 | 2.59 | 26.73 | 135.9 | .474 |
| 503 | 5.19 | 34.190 | .59 | 3.14 | 300 | 5.95 | 34.00 | 2.00 | 2.70 | 26.80 | 130.3 | .540 |
| 603 | 4.65 | 34.260 | .54 | 3.35 | 400 | 5.40 | 34.09 | 1.09 | 2.88 | 26.93 | 118.7 | .665 |
| 800 | 4.05 | 34.360 | .49 | 3.26 | 500 | 5.20 | 34.19 | .60 | 3.13 | 27.04 | 109.2 | .779 |
| | | | | | 600 | 4.67 | 34.25 | .54 | 3.35 | 27.14 | 99.9 | .883 |
| | | | | | 700 | 4.28 | 34.31 | .51 | 3.31 | 27.23 | 91.7 | .979 |
| | | | | | 800 | 4.05 | 34.36 | .49 | 3.26 | 27.30 | 85.8 | 1.068 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH 25 41 59.8 N 124 46.2 W DATE 15 JUN 62 2109 GCT WIRE 15 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION -- VEL 0 KTS BAR 14 SWELL DIRECTION 32 H 8 T 6 CLOUD 0 AMT 1 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.28 | 33.220 | 5.76 | 1.45 | 0 | 9.28 | 33.22 | 5.77 | 1.46 | 25.71 | 229.9 | 0 |
| 10 | 9.27 | 33.220 | 5.69 | 1.32 | 10 | 9.27 | 33.22 | 5.69 | 1.33 | 25.71 | 229.9 | .023 |
| 19 | 9.21 | 33.240 | 5.75 | 1.28 | 20 | 9.20 | 33.24 | 5.71 | 1.30 | 25.74 | 227.8 | .046 |
| 28 | 9.11 | 33.270 | 5.27 | 1.56 | 30 | 9.07 | 33.30 | 5.19 | 1.61 | 25.80 | 221.7 | .068 |
| 49 | 8.64 | 33.630 | 4.58 | 2.02 | 50 | 8.61 | 33.64 | 4.54 | 2.04 | 26.14 | 189.8 | .109 |
| 99 | 7.47 | 33.920 | 3.08 | 2.45 | 75 | 8.00 | 33.85 | 3.71 | 2.34 | 26.40 | 165.9 | .154 |
| 148 | 6.96 | 33.950 | 2.81 | 2.28 | 100 | 7.46 | 33.92 | 3.07 | 2.45 | 26.53 | 153.2 | .194 |
| 197 | 6.40 | 33.990 | 2.57 | 2.33 | 150 | 6.94 | 33.95 | 2.80 | 2.28 | 26.63 | 144.7 | .268 |
| 295 | 5.81 | 34.030 | 1.67 | 2.62 | 200 | 6.38 | 33.99 | 2.55 | 2.34 | 26.73 | 135.1 | .338 |
| 393 | 5.24 | 34.120 | .85 | 2.96 | 250 | 6.04 | 34.01 | 2.11 | 2.47 | 26.79 | 130.0 | .404 |
| 492 | 5.03 | 34.210 | .55 | 2.80 | 300 | 5.78 | 34.03 | 1.62 | 2.64 | 26.84 | 125.8 | .468 |
| 591 | 4.72 | 34.250 | .51 | 2.71 | 400 | 5.22 | 34.13 | .82 | 2.96 | 26.99 | 113.5 | .588 |
| | | | | | 500 | 5.01 | 34.22 | .54 | 2.79 | 27.08 | 104.9 | .697 |
| | | | | | 600 | 4.69 | 34.25 | .52 | 2.70 | 27.15 | 99.8 | .799 |
| BH 15 42 0.0 N 124 32.8 W DATE 16 JUN 62 0001 GCT WIRE 0 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 6 KTS BAR 12 SWELL DIRECTION 32 H 10 T 6 CLOUD 0 AMT 1 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.73 | 33.540 | 4.72 | | 0 | 8.73 | 33.54 | 4.72 | 0 | 26.05 | 197.9 | 0 |
| 10 | 8.72 | 33.560 | 4.58 | 1.99 | 10 | 8.72 | 33.55 | 4.58 | 1.99 | 26.06 | 197.2 | .020 |
| 20 | 8.63 | 33.580 | 4.51 | 1.82 | 20 | 8.63 | 33.58 | 4.52 | 1.83 | 26.09 | 193.8 | .039 |
| 30 | 8.27 | 33.690 | 4.29 | 2.22 | 30 | 8.27 | 33.70 | 4.29 | 2.22 | 26.23 | 180.5 | .058 |
| 51 | 7.79 | 33.840 | 3.81 | 1.97 | 50 | 7.81 | 33.83 | 3.83 | 1.99 | 26.41 | 163.8 | .092 |
| 78 | 7.51 | 33.940 | 3.07 | 2.19 | 75 | 7.53 | 33.93 | 3.15 | 2.15 | 26.53 | 153.2 | .132 |
| 105 | 7.20 | 34.030 | 2.59 | 2.54 | 100 | 7.26 | 34.01 | 2.66 | 2.47 | 26.63 | 143.7 | .169 |
| BH 5 42 0.0 N 124 19.4 W DATE 16 JUN 62 0225 GCT WIRE 0 DRY 49.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 7 KTS BAR 10 SWELL DIRECTION 33 H 9 T 7 CLOUD - AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 6.50 | 34.060 | 1.90 | 2.52 | 0 | 6.51 | 34.06 | 1.90 | 2.52 | 26.78 | 128.8 | 0 |
| 10 | 6.49 | 34.070 | 1.52 | 2.10 | 10 | 6.49 | 34.08 | 1.52 | 2.10 | 26.78 | 128.0 | .013 |
| 20 | 6.47 | 34.070 | 2.59 | 2.84 | 20 | 6.47 | 34.08 | 2.60 | 2.85 | 26.79 | 127.9 | .026 |
| 30 | 6.47 | 34.070 | 2.52 | 2.73 | 30 | 6.47 | 34.08 | 2.52 | 2.73 | 26.79 | 128.0 | .038 |
| AH 5 46 14.5 N 124 13.7 W DATE 24 JUL 62 0437 GCT WIRE 3 DRY 56.2 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 18 SWELL DIRECTION 34 H 4 T 8 CLOUD 0 AMT 10 WEATHER 00 | | | | | | | | | | | | |
| 0 | 13.20 | 22.320 | | | 0 | 13.20 | 22.32 | | | 16.61 | 1102.3 | 0 |
| 10 | 10.09 | 32.834 | | | 10 | 10.09 | 32.84 | | | 25.28 | 271.3 | .069 |
| 20 | 7.64 | 33.612 | | | 20 | 7.65 | 33.62 | | | 26.27 | 177.4 | .091 |
| 30 | 6.82 | 33.906 | | | 30 | 6.82 | 33.91 | | | 26.61 | 144.7 | .107 |
| 40 | 6.56 | 33.949 | | | 50 | 6.41 | 33.97 | | | 26.72 | 135.0 | .135 |
| 50 | 6.40 | 33.967 | | | | | | | | | | |
| AH 15 46 14.4 N 124 27.4 W DATE 24 JUL 62 0630 GCT WIRE 7 DRY 57.5 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR -- SWELL DIRECTION 34 H 4 T 7 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.25 | 32.565 | | .39 | 0 | 12.25 | 32.56 | | .39 | 24.67 | 328.5 | 0 |
| 10 | 9.15 | 32.610 | | 1.80 | 10 | 9.15 | 32.61 | | 1.80 | 25.26 | 273.4 | .030 |
| 20 | 7.92 | 32.820 | | 1.93 | 20 | 7.93 | 32.83 | | 1.93 | 25.61 | 240.2 | .056 |
| 30 | 7.68 | 33.138 | | 2.20 | 30 | 7.69 | 33.14 | | 2.21 | 25.89 | 213.3 | .078 |
| 51 | 7.40 | 33.554 | | 2.17 | 50 | 7.41 | 33.54 | | 2.17 | 26.24 | 180.3 | .118 |
| 77 | 7.02 | 33.838 | | 2.85 | 75 | 7.05 | 33.82 | | 2.79 | 26.51 | 154.6 | .160 |
| 103 | 6.69 | 33.918 | | 2.97 | 100 | 6.73 | 33.91 | | 2.96 | 26.63 | 144.0 | .197 |
| 154 | 6.17 | 34.000 | | 2.75 | 150 | 6.20 | 34.00 | | 2.77 | 26.76 | 131.8 | .266 |
| 205 | 6.11 | 33.994 | | 2.83 | 200 | 6.12 | 34.00 | | 2.81 | 26.77 | 131.3 | .332 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 25 46 14.4 N 124 41.9 W DATE 24 JUL 62 0821 GCT WIRE 6 DRY 56.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 19 SWELL DIRECTION 34 H 3 T 7 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.87 | 32.282 | | .42 | 0 | 13.88 | 32.29 | | .42 | 24.15 | 378.9 | 0 |
| 10 | 13.57 | 32.245 | | .40 | 10 | 13.57 | 32.25 | | .40 | 24.18 | 376.0 | .038 |
| 20 | 9.95 | 32.340 | | 1.08 | 20 | 9.95 | 32.34 | | 1.08 | 24.92 | 305.8 | .072 |
| 30 | 9.84 | | | 0 | 30 | 9.84 | 32.47 | | 1.28 | 25.03 | 295.0 | .102 |
| 51 | 8.17 | 32.846 | | 1.30 | 50 | 8.26 | 32.83 | | 1.29 | 25.56 | 245.2 | .156 |
| 77 | 7.80 | 33.481 | | 1.88 | 75 | 7.83 | 33.44 | | 1.84 | 26.10 | 194.0 | .211 |
| 103 | 7.80 | 33.650 | | 2.08 | 100 | 7.80 | 33.64 | | 2.07 | 26.26 | 178.7 | .257 |
| 154 | 7.17 | 33.900 | | 2.24 | 150 | 7.23 | 33.89 | | 2.23 | 26.54 | 153.6 | .340 |
| 205 | 6.63 | 33.959 | | 2.46 | 200 | 6.68 | 33.95 | | 2.44 | 26.66 | 141.9 | .414 |
| AH 35 46 14.4 N 124 51.2 W DATE 24 JUL 62 1030 GCT WIRE 7 DRY 57.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION -- VEL - KTS BAR 19 SWELL DIRECTION 31 H 3 T 7 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.94 | 32.178 | | .24 | 0 | 14.94 | 32.18 | | .25 | 23.84 | 407.9 | 0 |
| 10 | 14.98 | 32.181 | | .28 | 10 | 14.98 | 32.19 | | .28 | 23.84 | 408.7 | .041 |
| 20 | 12.72 | 32.569 | | .34 | 20 | 12.72 | 32.57 | | .34 | 24.60 | 336.4 | .078 |
| 30 | 10.68 | 32.575 | | .67 | 30 | 10.68 | 32.58 | | .68 | 24.97 | 300.4 | .110 |
| 52 | 8.87 | 32.614 | | .92 | 50 | 8.93 | 32.60 | | .90 | 25.28 | 271.6 | .167 |
| 78 | 8.44 | 33.124 | | 1.67 | 75 | 8.49 | 33.06 | | 1.57 | 25.70 | 231.8 | .230 |
| 104 | 8.11 | 33.495 | | 2.35 | 100 | 8.16 | 33.45 | | 2.26 | 26.06 | 198.3 | .284 |
| 156 | 7.66 | 33.880 | | 2.30 | 150 | 7.71 | 33.86 | | 2.35 | 26.45 | 162.3 | .374 |
| 208 | 7.13 | 33.940 | | 2.55 | 200 | 7.21 | 33.93 | | 2.50 | 26.57 | 150.7 | .452 |
| 305 | 6.16 | 34.000 | | 2.77 | 250 | 6.68 | 33.97 | | 2.69 | 26.68 | 141.4 | .525 |
| 404 | 5.58 | 34.056 | | 2.62 | 300 | 6.20 | 34.00 | | 2.77 | 26.76 | 133.9 | .594 |
| 501 | 5.02 | 34.131 | | 2.87 | 400 | 5.60 | 34.05 | | 2.63 | 26.88 | 123.6 | .723 |
| 599 | 4.66 | 34.184 | | 3.08 | 500 | 5.03 | 34.13 | | 2.87 | 27.01 | 111.4 | .840 |
| | | | | | 600 | 4.66 | 34.18 | | 3.08 | 27.09 | 104.5 | .948 |
| AH 45 46 14.6 N 125 10.5 W DATE 24 JUL 62 1300 GCT WIRE 0 DRY 59.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 19 SWELL DIRECTION 34 H 4 T 7 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.39 | 32.276 | 5.76 | .34 | 0 | 15.39 | 32.28 | 5.77 | .34 | 23.82 | 410.0 | 0 |
| 10 | 15.41 | 32.276 | 5.85 | .35 | 10 | 15.41 | 32.28 | 5.85 | .35 | 23.82 | 410.6 | .041 |
| 20 | 15.40 | 32.280 | 5.66 | .24 | 20 | 15.40 | 32.28 | 5.67 | .25 | 23.82 | 410.4 | .082 |
| 30 | 15.37 | 32.282 | 5.74 | .31 | 30 | 15.38 | 32.29 | 5.74 | .31 | 23.83 | 409.8 | .123 |
| 51 | 13.39 | 32.534 | 6.79 | .62 | 50 | 13.51 | 32.52 | 6.74 | .60 | 24.40 | 356.2 | .200 |
| 102 | 8.48 | 33.688 | 3.05 | 2.54 | 75 | 10.80 | 33.09 | 5.38 | 1.53 | 25.35 | 265.2 | .277 |
| 153 | 8.26 | 33.821 | 2.61 | 2.66 | 100 | 8.63 | 33.65 | 3.25 | 2.47 | 26.14 | 190.5 | .334 |
| 204 | 7.92 | 33.901 | 2.19 | 2.59 | 150 | 8.27 | 33.81 | 2.64 | 2.65 | 26.33 | 173.6 | .425 |
| 305 | 7.03 | 33.980 | 2.15 | 3.25 | 200 | 7.95 | 33.90 | 2.22 | 2.59 | 26.44 | 163.6 | .510 |
| 407 | 5.82 | 34.032 | 1.57 | 3.08 | 250 | 7.55 | 33.95 | 2.17 | 2.88 | 26.54 | 155.1 | .589 |
| 508 | 5.76 | 34.099 | .95 | 3.08 | 300 | 7.08 | 33.98 | 2.15 | 3.21 | 26.63 | 147.0 | .665 |
| 609 | 4.91 | 34.160 | .46 | 3.30 | 400 | 5.89 | 34.03 | 1.62 | 3.10 | 26.83 | 129.1 | .803 |
| 810 | 4.18 | 34.295 | .39 | 3.35 | 500 | 5.76 | 34.09 | .99 | 3.08 | 26.89 | 123.3 | .929 |
| 1012 | 3.63 | 34.412 | .50 | 3.59 | 600 | 5.00 | 34.15 | .68 | 3.28 | 27.03 | 110.8 | 1.046 |
| 1212 | 3.17 | 34.470 | .46 | 3.11 | 700 | 4.49 | 34.22 | .49 | 3.34 | 27.14 | 100.5 | 1.151 |
| | | | | | 800 | 4.20 | 34.29 | .39 | 3.35 | 27.23 | 92.8 | 1.248 |
| | | | | | 1000 | 3.66 | 34.41 | .49 | 3.58 | 27.38 | 79.5 | 1.420 |
| | | | | | 1200 | 3.20 | 34.47 | .47 | 3.16 | 27.47 | 70.7 | 1.570 |
| AH 65 46 14.5 N 125 38.8 W DATE 24 JUL 62 1645 GCT WIRE 10 DRY 59.9 WET 58.6 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 20 SWELL DIRECTION 34 H 5 T 7 CLOUD 9 AMT 10 WEATHER 00 | | | | | | | | | | | | |
| 0 | 15.50 | 32.358 | 5.74 | .30 | 0 | 15.50 | 32.36 | 5.74 | .30 | 23.86 | 406.3 | 0 |
| 10 | 15.50 | 32.318 | 5.74 | .33 | 10 | 15.50 | 32.32 | 5.74 | .33 | 23.83 | 409.4 | .041 |
| 20 | 15.49 | 32.318 | 5.72 | | 20 | 15.49 | 32.32 | 5.72 | .34 | 23.83 | 409.5 | .082 |
| 30 | 13.67 | 32.375 | 6.27 | .38 | 30 | 13.67 | 32.38 | 6.28 | .38 | 24.26 | 368.9 | .121 |
| 51 | 10.05 | 32.563 | 6.34 | .70 | 50 | 10.19 | 32.55 | 6.34 | .68 | 25.04 | 294.7 | .187 |
| 76 | 8.82 | 32.734 | 5.74 | .93 | 75 | 8.83 | 32.72 | 5.78 | .92 | 25.38 | 262.0 | .257 |
| 101 | 8.41 | 33.134 | 4.67 | 1.60 | 100 | 8.42 | 33.12 | 4.71 | 1.57 | 25.76 | 226.7 | .318 |
| 151 | 7.61 | 33.783 | 3.33 | 2.10 | 150 | 7.63 | 33.77 | 3.35 | 2.10 | 26.39 | 167.3 | .416 |
| 202 | 6.97 | 33.946 | 2.46 | 2.45 | 200 | 6.99 | 33.95 | 2.49 | 2.44 | 26.62 | 146.6 | .495 |
| 300 | 6.06 | 34.017 | 1.72 | 2.87 | 250 | 6.48 | 34.00 | 2.01 | 2.70 | 26.73 | 136.6 | .565 |
| 400 | 5.35 | 34.092 | 1.20 | 2.94 | 300 | 6.07 | 34.02 | 1.73 | 2.88 | 26.80 | 130.3 | .632 |
| 499 | 4.96 | 34.126 | .80 | 3.16 | 400 | 5.35 | 34.10 | 1.20 | 2.95 | 26.95 | 117.4 | .756 |
| 597 | 4.61 | 34.195 | .49 | 3.28 | 500 | 4.96 | 34.13 | .80 | 3.16 | 27.02 | 110.8 | .870 |
| 796 | 4.07 | 34.311 | .31 | 3.30 | 600 | 4.60 | 34.20 | .48 | 3.28 | 27.11 | 103.0 | .977 |
| 994 | 3.60 | 34.405 | .37 | 3.40 | 700 | 4.31 | 34.26 | .34 | 3.29 | 27.19 | 95.6 | 1.076 |
| | | | | | 800 | 4.06 | 34.31 | .31 | 3.30 | 27.26 | 89.4 | 1.168 |
| | | | | | 1000 | 3.59 | 34.41 | .37 | 3.40 | 27.38 | 78.5 | 1.336 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 85 46 14.4 N 126 9.0 W DATE 24 JUL 62 2045 GCT WIRE 4 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 21 SWELL DIRECTION 34 H 5 T 8 CLOUD 9 AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.40 | 32.559 | | .38 | 0 | 15.40 | 32.56 | | .38 | 24.03 | 389.5 | 0 |
| 10 | 15.37 | 32.557 | | .43 | 10 | 15.38 | 32.56 | | .43 | 24.04 | 389.2 | .039 |
| 20 | 14.71 | 32.572 | | .55 | 20 | 14.71 | 32.58 | | .56 | 24.19 | 374.8 | .077 |
| 30 | 13.02 | 32.586 | | .54 | 30 | 13.02 | 32.59 | | .54 | 24.55 | 341.0 | .113 |
| 52 | 9.66 | 32.582 | | .92 | 50 | 9.90 | 32.58 | | .88 | 25.11 | 287.9 | .176 |
| 77 | 8.90 | 32.602 | | .94 | 75 | 8.96 | 32.59 | | .94 | 25.27 | 273.0 | .246 |
| 103 | 8.60 | 32.994 | | 1.46 | 100 | 8.62 | 32.94 | | 1.39 | 25.59 | 242.7 | .310 |
| 154 | 8.06 | 33.759 | | 2.18 | 150 | 8.11 | 33.71 | | 2.14 | 26.27 | 178.8 | .416 |
| 205 | 7.12 | 33.877 | | 2.20 | 200 | 7.22 | 33.87 | | 2.20 | 26.52 | 155.6 | .499 |
| 305 | 6.03 | 33.982 | | 2.70 | 250 | 6.54 | 33.94 | | 2.42 | 26.67 | 141.9 | .574 |
| 405 | 5.35 | 34.025 | | 2.72 | 300 | 6.07 | 33.98 | | 2.67 | 26.76 | 133.5 | .642 |
| 504 | 4.55 | 34.043 | | 3.28 | 400 | 5.38 | 34.02 | | 2.72 | 26.88 | 123.1 | .771 |
| 604 | 4.53 | 34.209 | | | 500 | 4.58 | 34.04 | | 3.25 | 26.99 | 112.8 | .889 |
| 805 | 4.00 | 34.342 | | 3.42 | 600 | 4.53 | 34.20 | | 3.32 | 27.12 | 101.8 | .996 |
| 1004 | 3.59 | 34.409 | | 3.40 | 700 | 4.31 | 34.29 | | 3.37 | 27.22 | 93.0 | 1.093 |
| | | | | | 800 | 4.02 | 34.34 | | 3.42 | 27.29 | 86.8 | 1.183 |
| | | | | | 1000 | 3.60 | 34.41 | | 3.40 | 27.38 | 78.6 | 1.348 |
| AH 105 46 14.3 N 126 37.8 W DATE 25 JUL 62 0050 GCT WIRE 8 DRY 60.2 WET 59.1 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 21 SWELL DIRECTION 34 H 5 T 8 CLOUD - AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.68 | 32.299 | 5.80 | .31 | 0 | 15.68 | 32.30 | 5.81 | .31 | 23.77 | 414.4 | 0 |
| 10 | 15.49 | 32.351 | 5.79 | .32 | 10 | 15.49 | 32.36 | 5.80 | .32 | 23.86 | 406.8 | .041 |
| 20 | 15.05 | 32.478 | 5.90 | .27 | 20 | 15.05 | 32.48 | 5.91 | .27 | 24.05 | 388.6 | .081 |
| 30 | 13.77 | 32.566 | 6.35 | .43 | 30 | 13.77 | 32.57 | 6.35 | .43 | 24.38 | 356.8 | .118 |
| 52 | 9.61 | 32.664 | 6.16 | .84 | 50 | 9.96 | 32.66 | 6.21 | .80 | 25.16 | 283.3 | .182 |
| 77 | 8.73 | 32.807 | 5.73 | 1.17 | 75 | 8.80 | 32.79 | 5.78 | 1.14 | 25.45 | 256.2 | .250 |
| 103 | 8.55 | 33.344 | 4.34 | 1.91 | 100 | 8.55 | 33.28 | 4.52 | 1.82 | 25.87 | 216.7 | .309 |
| 154 | 8.01 | 33.817 | | 2.19 | 150 | 8.06 | 33.80 | 3.11 | 2.17 | 26.35 | 171.4 | .406 |
| 205 | 7.52 | 33.957 | 2.62 | 2.34 | 200 | 7.57 | 33.95 | 2.62 | 2.33 | 26.54 | 154.0 | .487 |
| 305 | 6.45 | 34.031 | 2.00 | 2.82 | 250 | 7.04 | 34.01 | 2.28 | 2.56 | 26.66 | 143.2 | .561 |
| 407 | 5.56 | 34.064 | 1.24 | 2.99 | 300 | 6.50 | 34.03 | 2.02 | 2.80 | 26.75 | 135.3 | .631 |
| 507 | 4.95 | 34.129 | .79 | 3.30 | 400 | 5.61 | 34.06 | 1.29 | 2.98 | 26.89 | 123.1 | .760 |
| 604 | 4.46 | 34.224 | .46 | 3.39 | 500 | 4.99 | 34.12 | .81 | 3.28 | 27.01 | 111.4 | .877 |
| 802 | 3.92 | 34.318 | .32 | 3.33 | 600 | 4.48 | 34.22 | .47 | 3.39 | 27.14 | 99.8 | .983 |
| 1000 | 3.41 | 34.394 | .32 | 3.25 | 700 | 4.16 | 34.28 | .34 | 3.38 | 27.22 | 92.3 | 1.079 |
| | | | | | 800 | 3.92 | 34.32 | .32 | 3.33 | 27.28 | 87.5 | 1.169 |
| | | | | | 1000 | 3.41 | 34.39 | .32 | 3.25 | 27.39 | 77.5 | 1.334 |
| AH 125 46 14.4 N 127 6.5 W DATE 25 JUL 62 0500 GCT WIRE 5 DRY 58.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 21 SWELL DIRECTION 34 H 5 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.66 | 32.187 | 5.79 | .50 | 0 | 15.66 | 32.19 | 5.80 | .51 | 23.69 | 422.2 | 0 |
| 10 | 15.67 | 32.189 | 5.76 | .36 | 10 | 15.67 | 32.19 | 5.77 | .36 | 23.69 | 422.5 | .042 |
| 20 | 15.40 | 32.283 | 5.70 | .40 | 20 | 15.40 | 32.29 | 5.70 | .40 | 23.82 | 410.2 | .084 |
| 30 | 14.51 | 32.575 | 6.05 | .46 | 30 | 14.51 | 32.58 | 6.07 | .46 | 24.24 | 370.8 | .123 |
| 52 | 10.54 | 32.592 | 6.52 | .71 | 50 | 10.90 | 32.59 | 6.51 | .68 | 24.94 | 303.7 | .190 |
| 77 | 9.15 | 32.728 | 5.76 | 1.23 | 75 | 9.19 | 32.71 | 5.85 | 1.18 | 25.32 | 267.8 | .262 |
| 103 | 8.56 | 33.219 | 4.58 | 1.91 | 100 | 8.60 | 33.16 | 4.72 | 1.84 | 25.76 | 226.3 | .324 |
| 154 | 7.72 | 33.781 | 3.13 | 2.33 | 150 | 7.77 | 33.75 | 3.20 | 2.32 | 26.36 | 170.8 | .423 |
| 205 | 7.24 | 33.931 | 2.70 | 2.52 | 200 | 7.28 | 33.93 | 2.72 | 2.51 | 26.56 | 151.9 | .503 |
| 305 | 6.18 | 34.033 | 1.76 | 2.90 | 250 | 6.75 | 34.00 | 2.27 | 2.69 | 26.69 | 140.3 | .576 |
| 406 | 5.53 | 34.082 | 1.10 | 3.22 | 300 | 6.23 | 34.03 | 1.81 | 2.88 | 26.79 | 131.7 | .644 |
| 506 | 4.86 | 34.124 | .66 | 3.34 | 400 | 5.56 | 34.08 | 1.13 | 3.20 | 26.91 | 121.2 | .771 |
| 606 | 4.54 | 34.206 | .44 | 3.53 | 500 | 4.90 | 34.12 | .68 | 3.33 | 27.02 | 110.5 | .887 |
| 806 | 3.97 | 34.375 | .31 | 3.64 | 600 | 4.55 | 34.20 | .45 | 3.52 | 27.12 | 102.1 | .993 |
| 1004 | 3.41 | 34.397 | .47 | 3.53 | 700 | 4.27 | 34.29 | .33 | 3.62 | 27.22 | 92.4 | 1.090 |
| | | | | | 800 | 3.99 | 34.37 | .31 | 3.64 | 27.31 | 84.2 | 1.178 |
| | | | | | 1000 | 3.42 | 34.40 | .46 | 3.53 | 27.36 | 77.5 | 1.340 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 145 46 14.4 N 127 35.0 W DATE 25 JUL 62 0835 GCT WIRE 3 DRY 58.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 5 KTS BAR 23 SWELL DIRECTION 34 H 5 T 8 CLOUD 0 AMT 10 WEATHER 20 | | | | | | | | | | | | |
| 0 | 15.17 | 32.566 | | .43 | 0 | 15.17 | 32.57 | | .43 | 24.09 | 384.2 | 0 |
| 10 | 15.18 | 32.564 | | .53 | 10 | 15.18 | 32.57 | | .54 | 24.09 | 384.8 | .038 |
| 20 | 15.18 | 32.564 | | .43 | 20 | 15.18 | 32.57 | | .43 | 24.09 | 385.0 | .077 |
| 31 | 13.95 | 32.586 | | .53 | 30 | 14.09 | 32.59 | | .52 | 24.34 | 361.4 | .114 |
| 52 | 10.83 | 32.580 | | .64 | 50 | 11.12 | 32.58 | | .63 | 24.90 | 307.9 | .181 |
| 78 | 8.88 | 32.663 | | 1.11 | 75 | 9.02 | 32.64 | | 1.04 | 25.30 | 270.4 | .253 |
| 104 | 8.06 | 33.104 | | 1.72 | 100 | 8.13 | 33.03 | | 1.63 | 25.73 | 229.3 | .316 |
| 156 | 7.77 | 33.850 | | 2.48 | 150 | 7.80 | 33.78 | | 2.42 | 26.38 | 169.0 | .415 |
| 208 | 7.02 | 33.965 | | 2.70 | 200 | 7.15 | 33.94 | | 2.69 | 26.59 | 149.2 | .495 |
| 310 | 5.67 | 33.967 | | 2.99 | 250 | 6.41 | 33.96 | | 2.84 | 26.70 | 138.9 | .567 |
| 413 | 5.08 | 34.031 | | 3.21 | 300 | 5.78 | 33.96 | | 2.97 | 26.78 | 131.6 | .635 |
| 515 | 4.80 | 34.128 | | 3.48 | 400 | 5.12 | 34.02 | | 3.18 | 26.91 | 120.4 | .760 |
| 616 | 4.39 | 34.192 | | 3.48 | 500 | 4.84 | 34.11 | | 3.45 | 27.02 | 110.4 | .876 |
| 818 | 3.86 | 34.307 | | 3.64 | 600 | 4.46 | 34.18 | | 3.48 | 27.12 | 102.3 | .982 |
| 1019 | 3.30 | 34.401 | | 3.54 | 700 | 4.15 | 34.24 | | 3.55 | 27.20 | 94.9 | 1.081 |
| | | | | | 800 | 3.90 | 34.30 | | 3.63 | 27.26 | 88.7 | 1.172 |
| | | | | | 1000 | 3.35 | 34.39 | | 3.56 | 27.39 | 77.0 | 1.338 |
| AH 165 46 14.6 N 128 3.8 W DATE 25 JUL 62 1245 GCT WIRE 3 DRY 60.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 5 KTS BAR 23 SWELL DIRECTION 34 H 5 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.27 | 32.555 | 5.81 | .44 | 0 | 15.27 | 32.56 | 5.82 | .44 | 24.06 | 387.1 | 0 |
| 10 | 15.27 | 32.585 | 5.96 | .44 | 10 | 15.27 | 32.60 | 5.96 | .44 | 24.09 | 384.4 | .039 |
| 20 | 14.84 | 32.593 | 5.94 | .45 | 20 | 14.84 | 32.60 | 5.94 | .45 | 24.18 | 375.9 | .077 |
| 31 | 14.21 | 32.611 | 6.15 | .46 | 30 | 14.29 | 32.61 | 6.13 | .46 | 24.31 | 364.2 | .114 |
| 52 | 9.99 | 32.580 | 6.47 | .78 | 50 | 10.41 | 32.59 | 6.46 | .74 | 25.03 | 295.4 | .180 |
| 78 | 8.87 | 32.830 | 5.72 | 1.20 | 75 | 8.88 | 32.79 | 5.85 | 1.15 | 25.44 | 257.1 | .249 |
| 104 | 8.02 | 33.225 | 4.66 | 1.68 | 100 | 8.13 | 33.16 | 4.82 | 1.61 | 25.84 | 219.1 | .308 |
| 156 | 7.24 | 33.791 | 4.01 | 1.91 | 150 | 7.29 | 33.74 | 4.03 | 1.91 | 26.42 | 164.9 | .404 |
| 208 | 6.66 | 33.901 | 3.51 | 2.12 | 200 | 6.74 | 33.90 | 3.59 | 2.09 | 26.61 | 146.6 | .482 |
| 310 | 5.66 | 33.975 | 1.80 | 2.79 | 250 | 6.21 | 33.94 | 2.80 | 2.41 | 26.72 | 137.3 | .553 |
| 413 | 5.07 | 34.040 | 1.10 | 2.88 | 300 | 5.74 | 33.97 | 1.97 | 2.73 | 26.80 | 130.0 | .620 |
| 515 | 4.82 | 34.131 | .67 | 3.03 | 400 | 5.12 | 34.03 | 1.15 | 2.87 | 26.92 | 119.5 | .744 |
| 606 | 4.44 | 34.207 | .42 | 2.94 | 500 | 4.85 | 34.12 | .72 | 3.01 | 27.02 | 110.3 | .859 |
| 818 | 3.83 | 34.319 | .41 | 3.22 | 600 | 4.47 | 34.20 | .43 | 2.95 | 27.13 | 101.0 | .965 |
| 1019 | 3.33 | 34.398 | .31 | 3.22 | 700 | 4.14 | 34.26 | .42 | 3.04 | 27.21 | 93.2 | 1.062 |
| | | | | | 800 | 3.87 | 34.31 | .41 | 3.19 | 27.28 | 87.3 | 1.152 |
| | | | | | 1000 | 3.37 | 34.39 | .32 | 3.22 | 27.39 | 77.3 | 1.317 |
| ANH173 45 42.5 N 128 2.0 W DATE 25 JUL 62 1821 GCT WIRE 4 DRY 59.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 24 SWELL DIRECTION 34 H 6 T 8 CLOUD 9 AMT 7 WEATHER - | | | | | | | | | | | | |
| 0 | 15.79 | 32.196 | | .37 | 0 | 15.79 | 32.19 | | .38 | 23.66 | 425.0 | 0 |
| 10 | 15.78 | 32.232 | | .38 | 10 | 15.78 | 32.24 | | .38 | 23.70 | 421.6 | .042 |
| 20 | 13.64 | 32.678 | | .67 | 20 | 13.64 | 32.68 | | .68 | 24.50 | 345.8 | .081 |
| 30 | 12.72 | 32.669 | | .65 | 30 | 12.72 | 32.67 | | .65 | 24.67 | 329.3 | .114 |
| 52 | 9.87 | 32.692 | | .86 | 50 | 10.12 | 32.69 | | .84 | 25.16 | 283.5 | .176 |
| 77 | 8.63 | 32.711 | | 1.01 | 75 | 8.68 | 32.71 | | 1.00 | 25.40 | 260.3 | .244 |
| 102 | 7.98 | 32.809 | | 1.23 | 100 | 8.02 | 32.80 | | 1.21 | 25.57 | 244.7 | .307 |
| 152 | 7.33 | 33.630 | | 1.91 | 150 | 7.35 | 33.59 | | 1.88 | 26.29 | 176.7 | .412 |
| 203 | 6.86 | 33.884 | | 2.26 | 200 | 6.89 | 33.88 | | 2.25 | 26.58 | 150.1 | .494 |
| 313 | 5.70 | 33.951 | | 2.71 | 250 | 6.35 | 33.91 | | 2.48 | 26.68 | 141.4 | .567 |
| 405 | 5.02 | 34.023 | | 3.01 | 300 | 5.83 | 33.94 | | 2.67 | 26.77 | 133.3 | .635 |
| 505 | 4.41 | 34.095 | | 3.26 | 400 | 5.05 | 34.02 | | 3.00 | 26.92 | 119.5 | .762 |
| 606 | 4.04 | 34.157 | | 3.28 | 500 | 4.44 | 34.09 | | 3.25 | 27.05 | 107.4 | .875 |
| 807 | 3.65 | 34.302 | | 3.38 | 600 | 4.06 | 34.15 | | 3.28 | 27.13 | 100.0 | .979 |
| 1007 | 3.36 | 34.463 | | 3.46 | 700 | 3.82 | 34.22 | | 3.32 | 27.21 | 92.8 | 1.075 |
| | | | | | 800 | 3.66 | 34.30 | | 3.38 | 27.29 | 86.0 | 1.164 |
| | | | | | 1000 | 3.37 | 34.46 | | 3.46 | 27.44 | 72.4 | 1.323 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 46 10.9 N 127 58.3 W DATE 25 JUL 62 2240 GCT WIRE 0 DRY 64.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 24 SWELL DIRECTION 35 H 6 T 8 CLOUD 9 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.44 | 31.260 | 5.74 | .23 | 0 | 16.44 | 31.26 | 5.74 | .24 | 22.81 | 506.6 | 0 |
| 10 | 16.46 | 31.255 | 5.77 | .29 | 10 | 16.46 | 31.26 | 5.78 | .29 | 22.80 | 507.6 | .051 |
| 20 | 14.52 | 32.388 | 6.22 | .33 | 20 | 14.52 | 32.39 | 6.22 | .33 | 24.09 | 384.4 | .095 |
| 30 | 13.53 | | 6.52 | .44 | 30 | 13.53 | 32.46 | 6.53 | .44 | 24.35 | 360.0 | .133 |
| 51 | 11.51 | 32.624 | 6.78 | .56 | 50 | 11.60 | 32.62 | 6.78 | .56 | 24.84 | 313.7 | .200 |
| 102 | 7.94 | 32.785 | 6.17 | 1.20 | 75 | 9.50 | 32.68 | 6.69 | .82 | 25.25 | 275.1 | .273 |
| 153 | 7.81 | 33.612 | 4.12 | 2.04 | 100 | 8.03 | 32.78 | 6.22 | 1.17 | 25.55 | 246.4 | .339 |
| 204 | 7.11 | | 3.23 | 2.19 | 150 | 7.82 | 33.56 | 4.24 | 2.00 | 26.20 | 185.9 | .447 |
| 305 | 6.16 | 33.967 | 2.01 | 2.58 | 200 | 7.17 | 33.90 | 3.28 | 2.18 | 26.56 | 152.1 | .531 |
| 407 | 5.46 | 34.056 | 1.29 | 3.20 | 250 | 6.63 | 33.84 | 2.60 | 2.35 | 26.58 | 150.4 | .607 |
| 507 | 4.58 | 34.080 | .90 | 3.04 | 300 | 6.20 | 33.96 | 2.06 | 2.56 | 26.73 | 136.9 | .679 |
| 607 | 4.20 | 34.155 | .54 | 3.37 | 400 | 5.51 | 34.05 | 1.33 | 3.17 | 26.89 | 122.5 | .808 |
| 806 | 3.78 | 34.296 | .57 | 3.41 | 500 | 4.64 | 34.08 | .92 | 3.06 | 27.01 | 110.7 | .925 |
| 1007 | 3.24 | 34.376 | .34 | 3.15 | 600 | 4.22 | 34.15 | .56 | 3.34 | 27.11 | 102.1 | 1.031 |
| 1207 | 2.98 | 34.490 | .53 | 3.10 | 700 | 3.98 | 34.23 | .55 | 3.39 | 27.20 | 94.3 | 1.129 |
| | | | | | 800 | 3.79 | 34.29 | .56 | 3.41 | 27.27 | 87.8 | 1.220 |
| | | | | | 1000 | 3.26 | 34.37 | .35 | 3.16 | 27.39 | 77.3 | 1.385 |
| | | | | | 1200 | 2.98 | 34.49 | .52 | 3.10 | 27.50 | 67.0 | 1.530 |
| NH 165 44 39.4 N 127 55.0 W DATE 26 JUL 62 0330 GCT WIRE 3 DRY 62.0 WET 60.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 23 SWELL DIRECTION 34 H 6 T 7 CLOUD 0 AMT 4 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.68 | 31.207 | 5.70 | .22 | 0 | 16.69 | 31.21 | 5.70 | .23 | 22.71 | 515.7 | 0 |
| 10 | 16.71 | 31.224 | 5.76 | .16 | 10 | 16.71 | 31.23 | 5.77 | .17 | 22.72 | 515.3 | .052 |
| 20 | 15.46 | 31.924 | 5.92 | .37 | 20 | 15.46 | 31.93 | 5.93 | .38 | 23.53 | 437.7 | .099 |
| 30 | 14.39 | 32.352 | 6.66 | .43 | 30 | 14.39 | 32.36 | 6.67 | .43 | 24.09 | 384.7 | .140 |
| 52 | 11.75 | 32.610 | 6.91 | .53 | 50 | 11.99 | 32.59 | 6.89 | .52 | 24.75 | 322.7 | .211 |
| 77 | 9.35 | 32.610 | 6.41 | | 75 | 9.50 | 32.61 | 6.47 | .85 | 25.20 | 280.1 | .286 |
| 103 | 8.36 | 32.883 | 5.50 | 1.32 | 100 | 8.42 | 32.84 | 5.61 | 1.26 | 25.55 | 247.0 | .352 |
| 154 | 7.60 | 33.655 | 3.80 | 1.99 | 150 | 7.63 | 33.60 | 3.91 | 1.95 | 26.25 | 180.4 | .459 |
| 205 | 6.99 | 33.898 | 3.23 | 2.13 | 200 | 7.05 | 33.89 | 3.26 | 2.13 | 26.56 | 151.5 | .542 |
| 306 | 5.75 | 33.943 | 2.60 | 2.55 | 250 | 6.41 | 33.92 | 2.95 | 2.32 | 26.67 | 141.8 | .615 |
| 406 | 4.94 | 34.014 | 1.39 | 2.73 | 300 | 5.82 | 33.94 | 2.64 | 2.53 | 26.77 | 133.3 | .684 |
| 506 | 4.49 | 34.076 | .95 | 3.05 | 400 | 4.98 | 34.01 | 1.46 | 2.72 | 26.92 | 119.4 | .810 |
| 606 | 4.24 | 34.167 | .59 | 3.07 | 500 | 4.51 | 34.07 | .96 | 3.03 | 27.02 | 109.7 | .925 |
| 806 | 3.74 | 34.315 | .26 | 3.20 | 600 | 4.25 | 34.16 | .61 | 3.07 | 27.12 | 101.6 | 1.030 |
| 1004 | 3.32 | 34.403 | .38 | 3.23 | 700 | 4.00 | 34.24 | .37 | 3.13 | 27.21 | 93.2 | 1.128 |
| | | | | | 800 | 3.75 | 34.31 | .26 | 3.20 | 27.29 | 86.0 | 1.217 |
| | | | | | 1000 | 3.33 | 34.40 | .37 | 3.23 | 27.40 | 76.0 | 1.379 |
| NH 145 44 39.5 N 127 27.3 W DATE 26 JUL 62 0730 GCT WIRE 10 DRY 61.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 23 SWELL DIRECTION 35 H 5 T 8 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 16.59 | 31.233 | 5.63 | .29 | 0 | 16.59 | 31.24 | 5.64 | .29 | 22.75 | 511.8 | 0 |
| 10 | 16.58 | 31.230 | 5.55 | .25 | 10 | 16.58 | 31.23 | 5.56 | .25 | 22.75 | 512.1 | .051 |
| 20 | 16.58 | 31.249 | 5.60 | .20 | 20 | 16.58 | 31.25 | 5.60 | .21 | 22.77 | 510.9 | .102 |
| 30 | 13.64 | 32.441 | 6.30 | .48 | 30 | 13.64 | 32.45 | 6.31 | .49 | 24.31 | 363.4 | .146 |
| 52 | 10.80 | 32.588 | 7.01 | .69 | 50 | 10.93 | 32.57 | 7.00 | .68 | 24.93 | 305.2 | .213 |
| 76 | 9.27 | 32.629 | 6.19 | .95 | 75 | 9.31 | 32.62 | 6.25 | .94 | 25.24 | 276.0 | .286 |
| 102 | 8.25 | 33.112 | 4.61 | 1.63 | 100 | 8.31 | 33.07 | 4.73 | 1.58 | 25.74 | 228.6 | .349 |
| 152 | 7.46 | 33.750 | 3.63 | 2.16 | 150 | 7.48 | 33.73 | 3.64 | 2.15 | 26.38 | 168.3 | .448 |
| 203 | 6.68 | 33.912 | 2.98 | 2.32 | 200 | 6.72 | 33.91 | 3.01 | 2.32 | 26.63 | 145.6 | .526 |
| 304 | 5.56 | 33.956 | 2.00 | 2.74 | 250 | 6.09 | 33.95 | 2.48 | 2.52 | 26.74 | 135.0 | .596 |
| 406 | 4.92 | 34.015 | 1.31 | 3.01 | 300 | 5.59 | 33.95 | 2.03 | 2.72 | 26.80 | 129.5 | .662 |
| 505 | 4.55 | 34.086 | .84 | 3.12 | 400 | 4.95 | 34.01 | 1.34 | 3.00 | 26.92 | 118.9 | .787 |
| 604 | 4.20 | 34.171 | .50 | 3.31 | 500 | 4.57 | 34.08 | .86 | 3.12 | 27.02 | 109.6 | .901 |
| 800 | 3.85 | 34.321 | .29 | 3.33 | 600 | 4.21 | 34.17 | .51 | 3.30 | 27.13 | 100.7 | 1.006 |
| 995 | 3.37 | 34.400 | .31 | 3.40 | 700 | 4.01 | 34.25 | .34 | 3.32 | 27.22 | 92.7 | 1.103 |
| | | | | | 800 | 3.85 | 34.33 | .29 | 3.34 | 27.29 | 86.0 | 1.192 |
| | | | | | 1000 | 3.36 | 34.40 | .31 | 3.40 | 27.40 | 76.4 | 1.354 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 125 44 39.5 N 126 59.0 W DATE 26 JUL 62 1210 GCT WIRE 14 DRY 62.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 22 SWELL DIRECTION 34 H 8 T 8 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.65 | 31.064 | 5.64 | .16 | 0 | 16.65 | 31.07 | 5.65 | .17 | 22.61 | 525.5 | 0 |
| 10 | 16.68 | 31.095 | 5.75 | .20 | 10 | 16.69 | 31.10 | 5.76 | .21 | 22.63 | 524.1 | .052 |
| 20 | 15.58 | 31.984 | 5.75 | .23 | 20 | 15.58 | 31.99 | 5.76 | .24 | 23.55 | 435.8 | .100 |
| 29 | 13.83 | 32.552 | 6.30 | .40 | 30 | 13.61 | 32.57 | 6.33 | .42 | 24.42 | 353.4 | .140 |
| 50 | 10.05 | 32.590 | 6.47 | .80 | 50 | 10.05 | 32.59 | 6.47 | .81 | 25.09 | 289.4 | .204 |
| 75 | 9.15 | 32.673 | 6.20 | 1.03 | 75 | 9.15 | 32.68 | 6.20 | 1.04 | 25.30 | 269.7 | .274 |
| 100 | 8.25 | 33.102 | 4.97 | 1.62 | 100 | 8.25 | 33.11 | 4.97 | 1.63 | 25.78 | 225.0 | .336 |
| 149 | 7.39 | 33.765 | 3.71 | 2.21 | 150 | 7.38 | 33.77 | 3.70 | 2.22 | 26.43 | 164.1 | .433 |
| 197 | 6.80 | 33.888 | 3.27 | 2.38 | 200 | 6.76 | 33.89 | 3.24 | 2.40 | 26.61 | 147.5 | .511 |
| 293 | 5.63 | 33.948 | 2.28 | 2.94 | 250 | 6.12 | 33.94 | 2.73 | 2.71 | 26.72 | 136.7 | .582 |
| 390 | 4.95 | 34.023 | 1.28 | 2.83 | 300 | 5.56 | 33.95 | 2.20 | 2.94 | 26.81 | 129.3 | .649 |
| 487 | 4.78 | 34.161 | .77 | 3.19 | 400 | 4.92 | 34.04 | 1.21 | 2.86 | 26.95 | 116.6 | .771 |
| 586 | 4.44 | 34.208 | .44 | 3.26 | 500 | 4.74 | 34.17 | .72 | 3.21 | 27.07 | 105.1 | .882 |
| 786 | 3.84 | 34.333 | .31 | 3.33 | 600 | 4.39 | 34.22 | .41 | 3.27 | 27.15 | 99.1 | .984 |
| 986 | 3.42 | 34.409 | .53 | 3.25 | 700 | 4.08 | 34.28 | .37 | 3.31 | 27.23 | 91.4 | 1.079 |
| | | | | | 800 | 3.80 | 34.34 | .31 | 3.33 | 27.31 | 84.4 | 1.167 |
| | | | | | 1000 | 3.39 | 34.41 | .55 | 3.24 | 27.41 | 75.8 | 1.327 |
| NH 105 44 39.5 N 126 35.2 W DATE 26 JUL 62 1635 GCT WIRE 11 DRY 53.8 WET 60.7 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 22 SWELL DIRECTION 35 H 8 T 7 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.53 | 30.605 | 5.71 | .15 | 0 | 16.53 | 30.61 | 5.71 | .15 | 22.29 | 556.4 | 0 |
| 10 | 16.53 | 30.609 | 5.67 | .18 | 10 | 16.53 | 30.61 | 5.68 | .19 | 22.29 | 556.4 | .056 |
| 20 | 15.91 | 32.466 | 5.57 | .28 | 20 | 15.91 | 32.47 | 5.57 | .28 | 23.85 | 407.5 | .104 |
| 31 | 14.80 | 32.646 | 5.92 | .43 | 30 | 14.92 | 32.63 | 5.88 | .42 | 24.19 | 375.3 | .143 |
| 52 | 12.01 | 32.734 | 6.50 | .52 | 50 | 12.29 | 32.73 | 6.46 | .51 | 24.80 | 317.9 | .212 |
| 78 | 9.12 | 32.673 | 6.42 | .97 | 75 | 9.37 | 32.68 | 6.48 | .91 | 25.27 | 272.8 | .286 |
| 101 | 8.73 | 33.024 | 5.34 | | 100 | 8.75 | 33.01 | 5.39 | 1.25 | 25.62 | 239.7 | .350 |
| 154 | 7.43 | 33.576 | 4.38 | | 150 | 7.52 | 33.54 | 4.40 | 1.77 | 26.23 | 182.9 | .456 |
| 206 | 7.00 | 33.881 | 4.15 | 2.14 | 200 | 7.03 | 33.86 | 4.17 | 2.11 | 26.54 | 153.8 | .540 |
| 305 | 5.83 | 33.950 | 2.39 | 2.66 | 250 | 6.47 | 33.91 | 3.43 | 2.41 | 26.66 | 143.0 | .614 |
| 406 | 5.26 | 34.034 | 1.32 | 2.85 | 300 | 5.89 | 33.95 | 2.49 | 2.64 | 26.76 | 133.7 | .683 |
| 505 | 4.47 | 34.094 | .91 | 3.14 | 400 | 5.29 | 34.03 | 1.36 | 2.84 | 26.90 | 121.6 | .811 |
| 605 | 4.31 | 34.200 | .52 | 3.19 | 500 | 4.51 | 34.09 | .92 | 3.13 | 27.04 | 108.3 | .926 |
| 805 | 3.79 | 34.313 | .32 | 3.34 | 600 | 4.31 | 34.19 | .54 | 3.19 | 27.14 | 99.8 | 1.030 |
| 1004 | 3.44 | 34.414 | .36 | 3.21 | 700 | 4.07 | 34.26 | .36 | 3.27 | 27.22 | 92.5 | 1.126 |
| | | | | | 800 | 3.80 | 34.31 | .33 | 3.34 | 27.29 | 86.6 | 1.215 |
| | | | | | 1000 | 3.45 | 34.41 | .36 | 3.22 | 27.40 | 76.6 | 1.378 |
| NH 85 44 39.5 N 126 3.4 W DATE 26 JUL 62 2032 GCT WIRE - DRY 63.0 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 22 SWELL DIRECTION 35 H 8 T 8 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 16.18 | 31.324 | 5.84 | .21 | 0 | 16.18 | 31.33 | 5.84 | .22 | 22.92 | 496.3 | 0 |
| 10 | 16.15 | 31.327 | 5.80 | .20 | 10 | 16.15 | 31.33 | 5.81 | .21 | 22.92 | 495.7 | .050 |
| 20 | 16.12 | 31.370 | 5.51 | .17 | 20 | 16.13 | 31.38 | 5.52 | .17 | 22.96 | 492.1 | .099 |
| 31 | 14.44 | 32.513 | 6.14 | .40 | 30 | 14.63 | 32.40 | 6.07 | .37 | 24.08 | 386.2 | .143 |
| 52 | 11.07 | 32.675 | 6.40 | .67 | 50 | 11.36 | 32.66 | 6.38 | .65 | 24.92 | 306.3 | .212 |
| 77 | 9.18 | 32.810 | 5.96 | 1.02 | 75 | 9.27 | 32.80 | 6.02 | .99 | 25.38 | 262.7 | .283 |
| 103 | 8.16 | 33.169 | 5.13 | 1.47 | 100 | 8.24 | 33.12 | 5.23 | 1.42 | 25.79 | 223.6 | .344 |
| 154 | 7.48 | 33.733 | 4.05 | 1.92 | 150 | 7.49 | 33.70 | 4.12 | 1.90 | 26.35 | 171.0 | .443 |
| 206 | 7.24 | 33.933 | 2.98 | 2.24 | 200 | 7.26 | 33.92 | 3.09 | 2.21 | 26.56 | 152.0 | .523 |
| 306 | 5.99 | 33.951 | 2.30 | 2.73 | 250 | 6.71 | 33.94 | 2.59 | 2.50 | 26.65 | 143.9 | .597 |
| 407 | 5.46 | 34.057 | 1.31 | 2.73 | 300 | 6.07 | 33.95 | 2.32 | 2.71 | 26.74 | 135.7 | .667 |
| 504 | 4.81 | 34.114 | .82 | 3.23 | 400 | 5.49 | 34.05 | 1.38 | 2.73 | 26.89 | 122.5 | .796 |
| 606 | 4.57 | 34.280 | .52 | 3.21 | 500 | 4.83 | 34.11 | .83 | 3.21 | 27.02 | 110.6 | .913 |
| 806 | 4.02 | 34.325 | .35 | 3.14 | 600 | 4.58 | 34.27 | .53 | 3.22 | 27.17 | 97.3 | 1.017 |
| 1006 | 3.49 | 34.407 | .34 | 3.57 | 700 | 4.32 | 34.32 | .40 | 3.15 | 27.24 | 91.0 | 1.111 |
| | | | | | 800 | 4.04 | 34.32 | .36 | 3.14 | 27.27 | 88.3 | 1.200 |
| | | | | | 1000 | 3.51 | 34.40 | .34 | 3.55 | 27.39 | 77.9 | 1.366 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 65 44 39.5 N 125 35.4 W DATE 27 JUL 62 0115 GCT WIRE 8 DRY 62.2 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 20 SWELL DIRECTION 35 H 6 T 8 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.91 | 31.501 | 5.84 | .22 | 0 | 15.91 | 31.60 | 5.84 | .23 | 23.18 | 471.0 | 0 |
| 10 | 15.41 | 31.689 | 5.92 | | 10 | 15.41 | 31.69 | 5.93 | .14 | 23.37 | 453.6 | .046 |
| 20 | 12.26 | 32.377 | 6.57 | .47 | 20 | 12.26 | 32.38 | 6.57 | .47 | 24.54 | 342.2 | .086 |
| 30 | 10.23 | 32.546 | 6.60 | .80 | 30 | 10.23 | 32.55 | 6.60 | .81 | 25.03 | 295.2 | .118 |
| 51 | 8.41 | 32.738 | 5.65 | 1.26 | 50 | 8.45 | 32.73 | 5.71 | 1.24 | 25.45 | 255.0 | .173 |
| 102 | 7.89 | 33.631 | 3.83 | 2.02 | 75 | 8.17 | 33.16 | 4.71 | 1.68 | 25.83 | 219.4 | .232 |
| 153 | 7.56 | 33.887 | 2.70 | 2.30 | 100 | 7.91 | 33.60 | 3.89 | 2.00 | 26.21 | 183.7 | .283 |
| 204 | 6.80 | 33.950 | 2.42 | 2.58 | 150 | 7.58 | 33.88 | 2.75 | 2.29 | 26.48 | 158.5 | .368 |
| 304 | 6.15 | 34.065 | 1.43 | 2.55 | 200 | 6.86 | 33.95 | 2.43 | 2.56 | 26.64 | 144.6 | .444 |
| 405 | 5.72 | 34.136 | .96 | 2.82 | 250 | 6.42 | 34.01 | 1.97 | 2.57 | 26.74 | 135.3 | .514 |
| 503 | 5.12 | 34.205 | .74 | 3.13 | 300 | 6.16 | 34.06 | 1.47 | 2.56 | 26.82 | 128.6 | .580 |
| 600 | 4.95 | 34.320 | .52 | 3.23 | 400 | 5.74 | 34.13 | .97 | 2.80 | 26.93 | 119.4 | .704 |
| 799 | 4.27 | 34.404 | .26 | 3.39 | 500 | 5.14 | 34.20 | .75 | 3.12 | 27.05 | 107.4 | .817 |
| 1000 | 3.56 | 34.404 | .34 | 3.43 | 600 | 4.95 | 34.33 | .52 | 3.23 | 27.17 | 97.7 | .920 |
| 1200 | 3.10 | 34.468 | .53 | 3.28 | 700 | 4.64 | 34.38 | .35 | 3.32 | 27.25 | 90.5 | 1.014 |
| | | | | | 800 | 4.27 | 34.40 | .26 | 3.39 | 27.31 | 85.0 | 1.101 |
| | | | | | 1000 | 3.57 | 34.41 | .34 | 3.43 | 27.39 | 78.2 | 1.264 |
| | | | | | 1200 | 3.10 | 34.47 | .53 | 3.28 | 27.48 | 69.6 | 1.412 |
| NH 45 44 39.4 N 125 7.0 W DATE 27 JUL 62 0530 GCT WIRE 14 DRY 61.0 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 5 KTS BAR 20 SWELL DIRECTION 35 H 6 T 8 CLOUD 0 AMT 3 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.83 | 32.124 | 6.70 | .36 | 0 | 13.83 | 32.13 | 6.70 | .36 | 24.03 | 389.7 | 0 |
| 10 | 12.88 | 32.256 | 6.85 | .43 | 10 | 12.88 | 32.26 | 6.85 | .43 | 24.32 | 362.2 | .038 |
| 19 | 10.76 | 32.523 | 6.60 | .71 | 20 | 10.57 | 32.53 | 6.58 | .73 | 24.96 | 302.0 | .071 |
| 29 | 9.21 | 32.545 | 6.39 | .89 | 30 | 9.11 | 32.55 | 6.37 | .91 | 25.21 | 278.0 | .100 |
| 49 | 8.11 | 32.696 | 5.90 | 1.28 | 50 | 8.09 | 32.71 | 5.84 | 1.30 | 25.49 | 251.1 | .153 |
| 74 | 7.98 | 33.217 | 4.43 | 1.80 | 75 | 7.98 | 33.24 | 4.38 | 1.82 | 25.92 | 211.1 | .210 |
| 99 | 7.89 | 33.606 | 3.53 | 2.12 | 100 | 7.88 | 33.62 | 3.52 | 2.12 | 26.23 | 181.8 | .260 |
| 146 | 7.25 | 33.896 | 3.38 | 2.16 | 150 | 7.20 | 33.91 | 3.31 | 2.19 | 26.56 | 151.6 | .343 |
| 197 | 6.74 | 33.967 | 2.38 | 2.53 | 200 | 6.71 | 33.97 | 2.34 | 2.54 | 26.67 | 141.1 | .416 |
| 296 | 6.05 | 34.039 | 1.60 | 2.81 | 250 | 6.32 | 34.01 | 1.86 | 2.72 | 26.76 | 133.7 | .485 |
| 394 | 5.71 | 34.110 | .97 | 3.04 | 300 | 6.04 | 34.04 | 1.57 | 2.82 | 26.82 | 128.4 | .550 |
| 491 | 5.12 | 34.170 | .70 | 3.00 | 400 | 5.68 | 34.11 | .94 | 3.04 | 26.92 | 120.1 | .674 |
| | | | | | 500 | 5.07 | 34.18 | .67 | 3.00 | 27.04 | 108.5 | .789 |
| NH 35 44 39.5 N 124 52.8 W DATE 27 JUL 62 0820 GCT WIRE 9 DRY 59.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 4 KTS BAR 20 SWELL DIRECTION 35 H 3 T 8 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.46 | 32.114 | 6.78 | .32 | 0 | 13.46 | 32.12 | 6.79 | .32 | 24.10 | 383.4 | 0 |
| 10 | 11.88 | 32.339 | 6.70 | .58 | 10 | 11.88 | 32.33 | 6.70 | .59 | 24.57 | 338.7 | .036 |
| 20 | 9.38 | 32.532 | 6.45 | .91 | 20 | 9.38 | 32.54 | 6.45 | .92 | 25.16 | 282.8 | .067 |
| 30 | 8.58 | 32.581 | 6.14 | 1.10 | 30 | 8.58 | 32.59 | 6.15 | 1.11 | 25.32 | 267.4 | .095 |
| 52 | 8.03 | 32.911 | 5.21 | 1.43 | 50 | 8.04 | 32.87 | 5.31 | 1.40 | 25.63 | 238.6 | .145 |
| 78 | 7.91 | 33.473 | 3.87 | 1.94 | 75 | 7.92 | 33.41 | 4.01 | 1.89 | 26.07 | 197.1 | .200 |
| 105 | 7.76 | 33.630 | 3.43 | 2.04 | 100 | 7.79 | 33.62 | 3.48 | 2.04 | 26.24 | 180.6 | .247 |
| 155 | 7.07 | 33.950 | 2.55 | 2.38 | 150 | 7.15 | 33.92 | 2.63 | 2.34 | 26.58 | 149.7 | .329 |
| 210 | 6.46 | 34.003 | 1.87 | 2.64 | 200 | 6.55 | 33.99 | 1.96 | 2.60 | 26.71 | 137.3 | .401 |
| 260 | 6.16 | 34.032 | 1.74 | 2.84 | 250 | 6.20 | 34.03 | 1.77 | 2.80 | 26.79 | 130.9 | .468 |
| NH 25 44 39.1 N 124 38.6 W DATE 27 JUL 62 1100 GCT WIRE 2 DRY 62.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 4 KTS BAR 19 SWELL DIRECTION 35 H 5 T 8 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.35 | 32.531 | 6.27 | .99 | 0 | 11.35 | 32.54 | 6.28 | 1.00 | 24.82 | 314.4 | 0 |
| 10 | 10.85 | | 6.01 | | 10 | 10.85 | 32.40 | 6.02 | 1.10 | 24.80 | 316.5 | .032 |
| 20 | 8.48 | 32.610 | 5.12 | 1.55 | 20 | 8.48 | 32.61 | 5.13 | 1.55 | 25.36 | 263.7 | .061 |
| 30 | 7.86 | 32.824 | 4.99 | 2.00 | 30 | 7.86 | 32.83 | 4.99 | 2.01 | 25.62 | 239.2 | .086 |
| 50 | 8.02 | 33.228 | 4.49 | 1.87 | 50 | 8.02 | 33.23 | 4.49 | 1.88 | 25.91 | 211.6 | .131 |
| 80 | 7.38 | 33.718 | 2.66 | 2.22 | 75 | 7.52 | 33.65 | 2.96 | 2.13 | 26.31 | 173.8 | .179 |
| 100 | 7.07 | 33.875 | 2.28 | 2.57 | 100 | 7.07 | 33.88 | 2.28 | 2.58 | 26.55 | 151.2 | .220 |
| 150 | 6.43 | 34.002 | 1.78 | 2.63 | 150 | 6.44 | 34.01 | 1.79 | 2.64 | 26.74 | 134.0 | .291 |
| 210 | 6.15 | 34.044 | 1.56 | 2.83 | 200 | 6.16 | 34.04 | 1.57 | 2.79 | 26.80 | 129.0 | .357 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH 15 44 39.1 N 124 24.7 W DATE 27 JUL 62 1913 GCT WIRE 1 DRY 56.0 WET 56.0
WIND DIRECTION 33 VEL 4 KTS BAR 20 SWELL DIRECTION 33 H 3 T 8 CLOUD 0 AMT 10 WEATHER 40

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.42 | 32.817 | 6.24 | 1.19 | 0 | 10.42 | 32.82 | 6.24 | 1.20 | 25.21 | 277.7 | 0 |
| 10 | 8.88 | 32.930 | 4.80 | 1.62 | 10 | 8.88 | 32.93 | 4.80 | 1.63 | 25.55 | 245.6 | .026 |
| 20 | 7.82 | 33.137 | 4.33 | 1.71 | 20 | 7.82 | 33.14 | 4.33 | 1.71 | 25.87 | 215.2 | .049 |
| 30 | 8.62 | 33.430 | 4.52 | 1.92 | 30 | 8.63 | 33.43 | 4.53 | 1.93 | 25.98 | 204.9 | .070 |
| 50 | 8.28 | 33.522 | 3.91 | 2.00 | 50 | 8.28 | 33.53 | 3.91 | 2.01 | 26.10 | 193.5 | .110 |
| 75 | 7.03 | 33.922 | 2.38 | 2.38 | 75 | 7.04 | 33.93 | 2.39 | 2.39 | 26.60 | 146.8 | .153 |

NH 5 44 39.1 N 124 10.6 W DATE 27 JUL 62 2135 GCT WIRE 2 DRY 53.0 WET 53.0
WIND DIRECTION 34 VEL 4 KTS BAR 20 SWELL DIRECTION 33 H 3 T 8 CLOUD 0 AMT 10 WEATHER 40

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.57 | 33.703 | 3.77 | 2.32 | 0 | 8.57 | 33.71 | 3.78 | 2.33 | 26.20 | 183.5 | 0 |
| 10 | 7.82 | 33.794 | 3.03 | 2.42 | 10 | 7.82 | 33.80 | 3.04 | 2.42 | 26.38 | 166.2 | .017 |
| 20 | 7.29 | 33.960 | 2.33 | 2.74 | 20 | 7.30 | 33.96 | 2.33 | 2.74 | 26.59 | 146.7 | .033 |
| 30 | 7.00 | 33.919 | 1.70 | 2.78 | 30 | 7.01 | 33.92 | 1.71 | 2.79 | 26.60 | 146.1 | .048 |
| 40 | 6.60 | 33.960 | 1.35 | 2.80 | 50 | 6.56 | 33.97 | 1.30 | 2.84 | 26.69 | 137.1 | .076 |
| 50 | 6.55 | 33.965 | 1.30 | 2.83 | | | | | | | | |

CH 5 43 20.5 N 124 29.0 W DATE 31 JUL 62 0135 GCT WIRE 0 DRY 54.5 WET 52.5
WIND DIRECTION 35 VEL 2 KTS BAR 18 SWELL DIRECTION 33 H 3 T 8 CLOUD 4 AMT 4 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.36 | 33.389 | 8.50 | .66 | 0 | 10.36 | 33.39 | 8.50 | .67 | 25.66 | 234.5 | 0 |
| 10 | 9.18 | 33.351 | 5.30 | 1.58 | 10 | 9.18 | 33.36 | 5.31 | 1.58 | 25.83 | 218.8 | .023 |
| 20 | 8.85 | 33.430 | 4.78 | 1.78 | 20 | 8.85 | 33.43 | 4.79 | 1.79 | 25.94 | 208.2 | .044 |
| 30 | 8.40 | 33.480 | 4.05 | 1.92 | 30 | 8.40 | 33.49 | 4.05 | 1.93 | 26.05 | 198.0 | .064 |
| 50 | 9.49 | 33.834 | 2.24 | 2.47 | 50 | 9.49 | 33.84 | 2.24 | 2.47 | 26.16 | 188.5 | .103 |
| 75 | 7.12 | 33.980 | 1.59 | 2.50 | 75 | 7.13 | 33.99 | 1.60 | 2.51 | 26.63 | 143.7 | .144 |

CH 15 43 20.5 N 124 43.3 W DATE 31 JUL 62 0320 GCT WIRE 17 DRY 56.5 WET 55.0
WIND DIRECTION 35 VEL 4 KTS BAR 19 SWELL DIRECTION 34 H 3 T 8 CLOUD 4 AMT 8 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.65 | 32.564 | 6.99 | .47 | 0 | 11.65 | 32.57 | 6.99 | .47 | 24.79 | 317.2 | 0 |
| 10 | 10.65 | 32.958 | 6.99 | .84 | 10 | 10.65 | 32.96 | 6.99 | .85 | 25.28 | 271.3 | .029 |
| 19 | 10.48 | 33.021 | 6.45 | .88 | 20 | 10.44 | 33.02 | 6.42 | .91 | 25.36 | 263.4 | .056 |
| 28 | 10.03 | 33.043 | 6.19 | 1.16 | 30 | 9.93 | 33.06 | 6.09 | 1.22 | 25.48 | 252.6 | .082 |
| 48 | 9.14 | 33.297 | 5.02 | 1.71 | 50 | 9.08 | 33.33 | 4.93 | 1.75 | 25.82 | 220.1 | .129 |
| 73 | 8.47 | 33.629 | 3.91 | 2.09 | 75 | 8.40 | 33.65 | 3.78 | 2.12 | 26.18 | 186.5 | .180 |
| 97 | 7.62 | 33.818 | 2.47 | 2.36 | 100 | 7.54 | 33.84 | 2.39 | 2.39 | 26.45 | 160.7 | .223 |
| 146 | 6.77 | 34.020 | 1.94 | 2.67 | 150 | 6.75 | 34.03 | 1.91 | 2.68 | 26.71 | 136.5 | .298 |
| 195 | 6.68 | 34.078 | 1.62 | 2.75 | 200 | 6.67 | 34.08 | 1.60 | 2.76 | 26.76 | 132.6 | .365 |
| 244 | 6.65 | 34.073 | 1.51 | 2.78 | | | | | | | | |

CH 25 43 20.5 N 124 55.6 W DATE 31 JUL 62 0548 GCT WIRE 3 DRY 57.0 WET 55.0
WIND DIRECTION 35 VEL 3 KTS BAR 20 SWELL DIRECTION 34 H 3 T 8 CLOUD 9 AMT 9 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.74 | 32.556 | 7.05 | 1.16 | 0 | 11.74 | 32.56 | 7.06 | 1.17 | 24.77 | 319.3 | 0 |
| 10 | 11.28 | 32.662 | 6.97 | .66 | 10 | 11.28 | 32.67 | 6.97 | .67 | 24.94 | 303.7 | .031 |
| 20 | 11.21 | 32.712 | 6.98 | .59 | 20 | 11.21 | 32.72 | 6.98 | .60 | 24.99 | 299.0 | .061 |
| 30 | 8.75 | 32.614 | 5.83 | 1.37 | 30 | 8.75 | 32.62 | 5.83 | 1.38 | 25.32 | 267.4 | .090 |
| 51 | 8.17 | 33.150 | 4.56 | 1.86 | 50 | 8.20 | 33.12 | 4.59 | 1.86 | 25.79 | 222.8 | .139 |
| 76 | 8.01 | 33.522 | 4.09 | 1.89 | 75 | 8.02 | 33.51 | 4.10 | 1.89 | 26.13 | 191.2 | .190 |
| 101 | 8.04 | 33.784 | 3.25 | 2.14 | 100 | 8.04 | 33.78 | 3.28 | 2.13 | 26.33 | 172.2 | .236 |
| 152 | 7.51 | 33.944 | 2.73 | 2.26 | 150 | 7.54 | 33.94 | 2.73 | 2.26 | 26.54 | 153.4 | .317 |
| 202 | 7.09 | 33.983 | 2.34 | 2.44 | 200 | 7.10 | 33.98 | 2.35 | 2.43 | 26.63 | 145.4 | .392 |
| 303 | 6.52 | 34.058 | 1.46 | 2.78 | 250 | 6.79 | 34.02 | 1.89 | 2.62 | 26.70 | 139.0 | .463 |
| 404 | 6.04 | 34.086 | 1.20 | 2.84 | 300 | 6.53 | 34.06 | 1.48 | 2.77 | 26.76 | 133.8 | .531 |
| 505 | 5.55 | 34.103 | .95 | 2.98 | 400 | 6.06 | 34.09 | 1.20 | 2.84 | 26.85 | 127.0 | .661 |
| 604 | 5.18 | 34.173 | .65 | 3.03 | 500 | 5.57 | 34.10 | .96 | 2.97 | 26.92 | 120.3 | .785 |
| | | | | | 600 | 5.19 | 34.17 | .66 | 3.03 | 27.02 | 112.2 | .901 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 35 43 20.5 N 125 10.5 W DATE 31 JUL 62 0720 GCT WIRE 3 DRY 58.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 3 KTS BAR 20 SWELL DIRECTION 34 H 3 T 8 CLOUD 9 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.71 | 32.243 | 5.97 | .39 | 0 | 13.71 | 32.25 | 5.97 | .39 | 24.15 | 378.7 | 0 |
| 50 | 9.76 | 33.205 | 5.54 | 1.43 | 10 | 11.10 | 32.73 | 7.15 | .96 | 25.02 | 295.7 | .034 |
| 100 | 8.09 | 33.795 | 3.53 | 2.02 | 20 | 10.76 | 32.85 | 6.75 | 1.08 | 25.17 | 281.5 | .063 |
| 150 | 7.43 | 33.967 | 2.80 | 0 | 30 | 10.43 | 32.97 | 6.34 | 1.19 | 25.32 | 267.4 | .090 |
| 255 | 6.78 | 34.040 | 1.98 | 2.60 | 50 | 9.76 | 33.21 | 5.55 | 1.43 | 25.62 | 239.3 | .141 |
| 300 | 6.54 | 34.077 | .98 | 2.66 | 75 | 8.72 | 33.55 | 4.55 | 1.77 | 26.05 | 198.5 | .195 |
| 401 | 6.16 | 34.122 | | 2.90 | 100 | 8.09 | 33.80 | 3.54 | 2.02 | 26.34 | 171.2 | .242 |
| 499 | 5.85 | 34.159 | | | 150 | 7.44 | 33.97 | 2.80 | 2.34 | 26.58 | 149.9 | .322 |
| 549 | 5.30 | 34.137 | | 2.92 | 200 | 7.05 | 34.02 | 2.48 | 2.54 | 26.67 | 141.5 | .395 |
| 598 | 5.08 | | .76 | 2.97 | 250 | 6.80 | 34.04 | 2.03 | 2.58 | 26.71 | 138.0 | .465 |
| 698 | 4.63 | 34.235 | .45 | 3.02 | 300 | 6.55 | 34.08 | .99 | 2.66 | 26.78 | 132.0 | .532 |
| 798 | 4.26 | 34.308 | .37 | 3.22 | 400 | 6.16 | 34.12 | .91 | 2.90 | 26.86 | 125.7 | .661 |
| 898 | 4.02 | 34.366 | .35 | 3.22 | 500 | 5.84 | 34.16 | .83 | 2.91 | 26.93 | 119.4 | .783 |
| 953 | 3.83 | 34.391 | .24 | 3.19 | 600 | 5.07 | 34.16 | .75 | 2.97 | 27.03 | 111.6 | .899 |
| 1003 | 3.67 | 34.407 | .35 | 3.19 | 700 | 4.62 | 34.24 | .45 | 3.02 | 27.14 | 100.9 | 1.005 |
| | | | | | 800 | 4.26 | 34.31 | .37 | 3.22 | 27.24 | 91.9 | 1.101 |
| | | | | | 1000 | 3.68 | 34.41 | .34 | 3.19 | 27.37 | 79.8 | 1.273 |
| CH 45 43 20.5 N 125 24.2 W DATE 31 JUL 62 1215 GCT WIRE 0 DRY 59.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 3 KTS BAR 20 SWELL DIRECTION 34 H 2 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.42 | 32.221 | 6.05 | .32 | 0 | 14.42 | 32.23 | 6.06 | .32 | 23.98 | 394.2 | 0 |
| 10 | 14.39 | 32.232 | 6.07 | .41 | 10 | 14.39 | 32.24 | 6.07 | .42 | 24.00 | 393.0 | .039 |
| 20 | 14.25 | 32.300 | 6.17 | .39 | 20 | 14.25 | 32.30 | 6.18 | .39 | 24.08 | 385.5 | .078 |
| 30 | 10.93 | 32.552 | 6.40 | .75 | 30 | 10.93 | 32.56 | 6.41 | .76 | 24.91 | 306.3 | .113 |
| 52 | 10.10 | 33.066 | 5.72 | 1.44 | 50 | 10.18 | 33.02 | 5.82 | 1.39 | 25.41 | 259.6 | .169 |
| 103 | 8.20 | 33.491 | 3.97 | 1.87 | 75 | 9.18 | 33.33 | 4.90 | 1.73 | 25.81 | 222.1 | .230 |
| 154 | 0 | 33.883 | 2.94 | 2.41 | 100 | 8.30 | 33.48 | 4.07 | 1.87 | 26.06 | 197.8 | .282 |
| 205 | 7.13 | 33.958 | 2.67 | 2.35 | 150 | 7.47 | 33.86 | 2.99 | 2.38 | 26.48 | 158.8 | .371 |
| 406 | 5.71 | 34.111 | 1.15 | 3.04 | 200 | 7.14 | 33.96 | 2.68 | 2.37 | 26.61 | 147.6 | .448 |
| 507 | 5.05 | | .92 | | 250 | 6.77 | 34.01 | 2.30 | 2.47 | 26.69 | 139.8 | .520 |
| 608 | 4.58 | 34.176 | .50 | 3.00 | 300 | 6.39 | 34.05 | 1.91 | 2.63 | 26.78 | 132.4 | .588 |
| 709 | 4.39 | 34.264 | .39 | 3.24 | 400 | 5.74 | 34.11 | 1.19 | 3.01 | 26.91 | 121.3 | .715 |
| 809 | 4.26 | 34.335 | .34 | 3.24 | 500 | 5.09 | 34.14 | .93 | 3.02 | 27.01 | 111.7 | .831 |
| 1010 | 3.74 | 34.403 | .38 | 3.26 | 600 | 4.61 | 34.17 | .53 | 3.00 | 27.09 | 104.8 | .939 |
| 1209 | 3.23 | 34.464 | .49 | 3.32 | 700 | 4.40 | 34.26 | .39 | 3.22 | 27.18 | 96.9 | 1.040 |
| | | | | | 800 | 4.27 | 34.33 | .34 | 3.24 | 27.25 | 90.6 | 1.134 |
| | | | | | 1000 | 3.77 | 34.40 | .37 | 3.26 | 27.36 | 81.2 | 1.305 |
| | | | | | 1200 | 3.25 | 34.46 | .48 | 3.32 | 27.46 | 71.8 | 1.458 |
| CH 65 43 20.4 N 125 51.3 W DATE 31 JUL 62 1600 GCT WIRE 0 DRY 59.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 1 KTS BAR 21 SWELL DIRECTION 32 H 2 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.40 | 32.247 | 6.09 | .44 | 0 | 14.40 | 32.25 | 6.09 | .44 | 24.01 | 391.9 | 0 |
| 10 | 14.36 | 32.250 | 6.20 | .44 | 10 | 14.36 | 32.25 | 6.20 | .44 | 24.02 | 391.1 | .039 |
| 20 | 14.07 | 32.302 | 6.33 | .43 | 20 | 14.07 | 32.31 | 6.33 | .43 | 24.12 | 381.8 | .078 |
| 30 | 12.00 | 32.433 | 6.36 | .60 | 30 | 12.00 | 32.44 | 6.36 | .60 | 24.63 | 333.6 | .114 |
| 52 | 9.60 | 32.606 | 5.63 | 1.16 | 50 | 9.63 | 32.59 | 5.72 | 1.11 | 25.16 | 283.4 | .175 |
| 77 | 8.70 | 33.173 | 4.65 | 1.67 | 75 | 8.72 | 33.12 | 4.73 | 1.63 | 25.72 | 230.1 | .239 |
| 103 | 8.34 | 33.588 | 3.53 | 2.02 | 100 | 8.37 | 33.55 | 3.65 | 1.99 | 26.11 | 193.8 | .292 |
| 154 | 7.64 | 33.900 | 3.09 | 2.29 | 150 | 7.73 | 33.89 | 3.12 | 2.28 | 26.47 | 160.0 | .381 |
| 205 | 7.05 | 33.990 | | 2.60 | 200 | 7.11 | 33.99 | 2.79 | 2.57 | 26.63 | 145.1 | .457 |
| 306 | 6.01 | 33.990 | 2.13 | 2.62 | 250 | 6.54 | 33.99 | 2.47 | 2.61 | 26.71 | 138.1 | .528 |
| 408 | 5.37 | 34.047 | 1.33 | 2.83 | 300 | 6.06 | 33.99 | 2.17 | 2.62 | 26.77 | 132.6 | .595 |
| 509 | 4.99 | 34.157 | .72 | 3.12 | 400 | 5.41 | 34.04 | 1.39 | 2.81 | 26.89 | 122.2 | .723 |
| 609 | 4.20 | 34.208 | .51 | 3.11 | 500 | 5.03 | 34.15 | .76 | 3.10 | 27.02 | 110.2 | .839 |
| 809 | 4.16 | 34.324 | .35 | 3.27 | 600 | 4.27 | 34.20 | .52 | 3.12 | 27.15 | 98.6 | .943 |
| 1008 | 3.65 | 34.406 | .40 | 3.24 | 700 | 4.18 | 34.26 | .40 | 3.18 | 27.21 | 93.9 | 1.039 |
| | | | | | 800 | 4.16 | 34.32 | .35 | 3.26 | 27.25 | 90.1 | 1.131 |
| | | | | | 1000 | 3.68 | 34.40 | .39 | 3.24 | 27.37 | 80.0 | 1.301 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 85 43 20.5 N 126 18.8 W DATE 31 JUL 62 1925 GCT WIRE 1 DRY 59.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 3 KTS BAR 22 SWELL DIRECTION 34 H 3 T 8 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.48 | 32.466 | 6.24 | .47 | 0 | 13.48 | 32.47 | 6.24 | .47 | 24.37 | 357.9 | 0 |
| 10 | 12.73 | 32.561 | 5.75 | .56 | 10 | 12.73 | 32.57 | 5.76 | .57 | 24.59 | 337.0 | .035 |
| 20 | 12.09 | 32.592 | 5.61 | .60 | 20 | 12.09 | 32.60 | 5.61 | .60 | 24.73 | 323.3 | .068 |
| 30 | 10.77 | 32.799 | 5.27 | .94 | 30 | 10.77 | 32.80 | 5.28 | .95 | 25.13 | 285.4 | .098 |
| 52 | 9.20 | 33.061 | 3.99 | 1.56 | 50 | 9.29 | 33.04 | 4.10 | 1.51 | 25.57 | 244.3 | .151 |
| 77 | 8.44 | 33.376 | 4.04 | 1.92 | 75 | 8.47 | 33.35 | 4.02 | 1.90 | 25.94 | 209.6 | .208 |
| 103 | 8.20 | 33.663 | 3.26 | 2.09 | 100 | 8.21 | 33.63 | 3.36 | 2.08 | 26.20 | 185.3 | .257 |
| 154 | 7.57 | 33.901 | 2.67 | 2.29 | 150 | 7.62 | 33.89 | 2.69 | 2.28 | 26.49 | 158.4 | .343 |
| 205 | 6.89 | 33.974 | 2.26 | 2.52 | 200 | 6.95 | 33.97 | 2.29 | 2.50 | 26.64 | 144.2 | .419 |
| 306 | 6.01 | 34.014 | 1.66 | 2.70 | 250 | 6.45 | 34.00 | 1.98 | 2.62 | 26.73 | 136.2 | .489 |
| 407 | 5.26 | 34.070 | 1.00 | 2.93 | 300 | 6.05 | 34.01 | 1.69 | 2.69 | 26.79 | 130.8 | .555 |
| 507 | 5.24 | 34.179 | .48 | 3.11 | 400 | 5.30 | 34.06 | 1.04 | 2.91 | 26.93 | 119.1 | .680 |
| 606 | 4.74 | 34.194 | .43 | 3.11 | 500 | 5.24 | 34.17 | .51 | 3.10 | 27.02 | 110.9 | .795 |
| 800 | 4.24 | 34.327 | .29 | 3.20 | 600 | 4.77 | 34.19 | .43 | 3.11 | 27.09 | 105.2 | .903 |
| 994 | 3.62 | 34.431 | .30 | 3.24 | 700 | 4.47 | 34.25 | .36 | 3.15 | 27.17 | 97.9 | 1.005 |
| | | | | | 800 | 4.24 | 34.33 | .29 | 3.21 | 27.26 | 90.1 | 1.099 |
| | | | | | 1000 | 3.60 | 34.43 | .30 | 3.24 | 27.40 | 76.8 | 1.266 |
| CH 105 43 20.5 N 126 45.7 W DATE 31 JUL 62 2300 GCT WIRE 5 DRY 61.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 4 KTS BAR 23 SWELL DIRECTION 34 H 3 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.62 | 32.243 | 6.02 | .43 | 0 | 14.63 | 32.25 | 6.03 | .43 | 23.96 | 396.6 | 0 |
| 10 | 14.38 | 32.278 | 6.13 | .38 | 10 | 14.38 | 32.28 | 6.14 | .38 | 24.04 | 389.5 | .039 |
| 20 | 13.25 | 32.496 | 6.30 | .55 | 20 | 13.25 | 32.50 | 6.31 | .56 | 24.44 | 351.7 | .076 |
| 30 | 11.51 | 32.742 | 6.56 | .76 | 30 | 11.51 | 32.77 | 6.57 | .76 | 24.97 | 300.7 | .109 |
| 52 | 8.50 | 32.760 | 5.24 | 1.38 | 50 | 8.70 | 32.76 | 5.41 | 1.32 | 25.44 | 256.4 | .165 |
| 77 | 8.17 | 33.263 | 4.17 | 1.83 | 75 | 8.20 | 33.22 | 4.24 | 1.80 | 25.87 | 215.7 | .224 |
| 103 | 8.05 | 33.651 | 3.48 | 2.05 | 100 | 8.06 | 33.61 | 3.54 | 2.03 | 26.20 | 184.5 | .274 |
| 154 | 7.64 | 33.910 | 2.77 | 2.32 | 150 | 7.68 | 33.91 | 2.80 | 2.31 | 26.49 | 158.2 | .359 |
| 205 | 7.11 | 33.963 | 2.46 | 2.40 | 200 | 7.17 | 33.96 | 2.48 | 2.40 | 26.61 | 147.7 | .436 |
| 305 | 5.87 | 33.990 | 1.98 | 2.58 | 250 | 6.51 | 33.98 | 2.25 | 2.47 | 26.71 | 138.6 | .507 |
| 405 | 5.55 | 34.068 | 1.17 | 2.90 | 300 | 5.92 | 33.99 | 2.01 | 2.57 | 26.79 | 131.0 | .575 |
| 503 | 5.28 | 34.174 | .63 | 3.00 | 400 | 5.55 | 34.06 | 1.21 | 2.88 | 26.89 | 122.3 | .701 |
| 602 | 4.70 | 34.237 | .43 | 3.22 | 500 | 5.29 | 34.17 | .64 | 3.00 | 27.01 | 111.6 | .818 |
| 802 | 4.27 | 34.336 | .35 | 3.12 | 600 | 4.71 | 34.24 | .43 | 3.22 | 27.13 | 101.4 | .925 |
| 1002 | 3.77 | 34.318 | .48 | 3.32 | 700 | 4.43 | 34.30 | .35 | 3.20 | 27.21 | 94.3 | 1.022 |
| | | | | | 800 | 4.27 | 34.34 | .35 | 3.12 | 27.26 | 90.2 | 1.115 |
| | | | | | 1000 | 3.78 | 34.32 | .48 | 3.32 | 27.29 | 87.3 | 1.292 |
| CH 125 43 20.5 N 127 8.1 W DATE 1 AUG 62 0225 GCT WIRE 10 DRY 61.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 23 SWELL DIRECTION 34 H 3 T 7 CLOUD 9 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.63 | | 5.70 | .41 | 0 | 16.63 | 32.25 | 5.70 | .42 | 23.52 | 438.9 | 0 |
| 10 | 16.62 | 32.126 | 5.71 | .37 | 10 | 16.63 | 32.13 | 5.71 | .38 | 23.43 | 447.5 | .044 |
| 20 | 16.42 | 32.230 | 5.72 | .56 | 20 | 16.42 | 32.23 | 5.72 | .57 | 23.56 | 435.8 | .088 |
| 30 | 14.85 | 32.576 | 6.12 | .47 | 30 | 14.85 | 32.58 | 6.13 | .47 | 24.17 | 377.6 | .129 |
| 52 | 12.17 | 32.717 | 6.57 | .60 | 50 | 12.38 | 32.70 | 6.55 | .58 | 24.76 | 321.1 | .199 |
| 77 | 9.94 | 32.712 | 6.32 | .93 | 75 | 10.08 | 32.71 | 6.37 | .90 | 25.18 | 281.5 | .274 |
| 103 | 9.00 | 33.032 | 5.46 | 1.38 | 100 | 9.06 | 32.99 | 5.58 | 1.33 | 25.56 | 245.8 | .340 |
| 154 | 8.34 | 33.679 | 3.59 | 2.08 | 150 | 8.36 | 33.64 | 3.72 | 2.04 | 26.18 | 188.1 | .449 |
| 204 | 7.83 | 33.895 | 2.79 | 2.34 | 200 | 7.87 | 33.89 | 2.83 | 2.33 | 26.46 | 163.1 | .536 |
| 302 | 6.32 | 33.969 | 2.23 | 2.53 | 250 | 7.12 | 33.96 | 2.46 | 2.45 | 26.61 | 148.0 | .614 |
| 402 | 5.54 | 34.025 | 1.41 | 2.89 | 300 | 6.35 | 33.97 | 2.24 | 2.53 | 26.72 | 138.0 | .686 |
| 499 | 5.11 | 34.111 | .90 | 3.03 | 400 | 5.55 | 34.02 | 1.43 | 2.88 | 26.86 | 125.2 | .817 |
| 596 | 4.57 | 34.159 | .62 | 2.90 | 500 | 5.10 | 34.11 | .90 | 3.03 | 26.99 | 113.7 | .937 |
| 794 | 4.10 | 34.347 | .28 | 3.20 | 600 | 4.56 | 34.16 | .61 | 2.90 | 27.09 | 105.0 | 1.046 |
| 991 | 3.70 | 34.423 | .32 | 3.18 | 700 | 4.27 | 34.26 | .40 | 3.03 | 27.19 | 95.2 | 1.146 |
| | | | | | 800 | 4.09 | 34.35 | .28 | 3.20 | 27.29 | 86.9 | 1.237 |
| | | | | | 1000 | 3.68 | 34.43 | .32 | 3.18 | 27.39 | 78.3 | 1.402 |

| | OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

CH 145 43 20.5 N 127 40.1 W DATE 1 AUG 62 0615 GCT WIRE 3 DRY 61.0 WET 59.0
WIND DIRECTION 34 VEL 4 KTS BAR 23 SWELL DIRECTION 34 H 2 T 7 CLOUD 9 AMT 10 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.33 | 32.248 | 5.69 | .40 | 0 | 16.33 | 32.25 | 5.69 | .40 | 23.59 | 432.0 | 0 |
| 10 | 16.27 | 32.345 | 5.65 | .37 | 10 | 16.27 | 32.35 | 5.66 | .38 | 23.68 | 423.9 | .043 |
| 20 | 16.20 | 32.383 | 5.56 | .36 | 20 | 16.20 | 32.39 | 5.57 | .36 | 23.72 | 419.8 | .085 |
| 30 | 16.20 | 32.369 | 5.61 | .41 | 30 | 16.20 | 32.37 | 5.61 | .42 | 23.71 | 421.1 | .127 |
| 52 | 12.08 | 32.730 | 6.26 | .54 | 50 | 12.53 | 32.69 | 6.20 | .52 | 24.72 | 324.8 | .202 |
| 77 | 9.69 | 32.782 | 5.99 | .99 | 75 | 9.81 | 32.78 | 6.04 | .95 | 25.28 | 272.1 | .276 |
| 103 | 9.01 | 33.064 | 5.27 | 1.41 | 100 | 9.03 | 33.02 | 5.37 | 1.36 | 25.59 | 242.6 | .341 |
| 154 | 8.48 | 33.731 | 3.27 | 2.16 | 150 | 8.50 | 33.69 | 3.42 | 2.11 | 26.19 | 186.4 | .448 |
| 205 | 8.09 | 33.888 | 2.62 | 2.38 | 200 | 8.13 | 33.89 | 2.65 | 2.37 | 26.41 | 167.0 | .536 |
| 306 | 6.80 | 33.996 | 2.34 | 2.46 | 250 | 7.53 | 33.96 | 2.44 | 2.43 | 26.55 | 154.0 | .616 |
| 408 | 5.94 | 34.048 | 1.64 | 2.80 | 300 | 6.88 | 33.99 | 2.34 | 2.46 | 26.67 | 143.0 | .691 |
| 508 | 5.36 | 34.066 | 1.14 | 3.06 | 400 | 5.99 | 34.05 | 1.70 | 2.77 | 26.83 | 129.2 | .827 |
| 608 | 4.63 | 34.153 | .67 | 3.20 | 500 | 5.40 | 34.06 | 1.18 | 3.04 | 26.91 | 121.0 | .952 |
| 807 | 4.15 | 34.329 | .30 | 3.34 | 600 | 4.69 | 34.14 | .70 | 3.19 | 27.06 | 107.8 | 1.066 |
| 1005 | 3.73 | 34.399 | .36 | 3.38 | 700 | 4.32 | 34.24 | .43 | 3.28 | 27.18 | 97.1 | 1.168 |
| | | | | | 800 | 4.16 | 34.32 | .30 | 3.34 | 27.26 | 89.7 | 1.262 |
| | | | | | 1000 | 3.74 | 34.40 | .35 | 3.38 | 27.36 | 81.0 | 1.432 |

CH 165 43 20.5 N 128 7.8 W DATE 1 AUG 62 1002 GCT WIRE 2 DRY 63.0 WET 60.5
WIND DIRECTION 32 VEL 2 KTS BAR 23 SWELL DIRECTION 34 H 1 T 7 CLOUD 9 AMT 10 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.44 | 31.840 | 5.58 | .65 | 0 | 16.44 | 31.84 | 5.58 | .65 | 23.25 | 464.2 | 0 |
| 10 | 16.46 | 32.022 | 5.60 | .42 | 10 | 16.46 | 32.03 | 5.60 | .42 | 23.39 | 451.6 | .046 |
| 20 | 16.46 | 32.062 | 5.49 | .40 | 20 | 16.46 | 32.07 | 5.49 | .40 | 23.42 | 448.9 | .091 |
| 30 | 14.27 | 31.841 | 6.04 | .47 | 30 | 14.27 | 31.85 | 6.05 | .47 | 23.72 | 419.8 | .134 |
| 52 | 12.09 | 32.730 | 5.85 | .62 | 50 | 12.21 | 32.63 | 5.91 | .61 | 24.74 | 323.7 | .209 |
| 77 | 9.95 | 32.762 | 5.63 | .87 | 75 | 10.09 | 32.76 | 5.64 | .85 | 25.22 | 278.3 | .284 |
| 103 | 9.08 | 32.840 | 5.57 | 1.12 | 100 | 9.14 | 32.83 | 5.59 | 1.09 | 25.42 | 258.9 | .351 |
| 154 | 8.51 | 33.541 | 3.97 | 1.91 | 150 | 8.53 | 33.48 | 4.11 | 1.85 | 26.03 | 202.1 | .466 |
| 205 | 7.83 | 33.842 | 3.46 | 2.08 | 200 | 7.90 | 33.82 | 3.48 | 2.08 | 26.39 | 168.2 | .559 |
| 306 | 6.41 | 33.970 | 2.88 | 2.45 | 250 | 7.17 | 33.94 | 3.19 | 2.25 | 26.59 | 149.9 | .638 |
| 408 | 5.49 | 33.989 | 1.88 | 2.75 | 300 | 6.49 | 33.96 | 2.91 | 2.43 | 26.70 | 140.2 | .711 |
| 509 | 4.88 | 34.055 | 1.23 | 2.96 | 400 | 5.55 | 33.99 | 1.96 | 2.73 | 26.84 | 127.8 | .845 |
| 609 | 4.70 | 34.217 | .57 | 3.26 | 500 | 4.92 | 34.05 | 1.28 | 2.94 | 26.96 | 116.4 | .967 |
| 809 | 4.20 | 34.297 | .29 | 3.40 | 600 | 4.71 | 34.20 | .62 | 3.23 | 27.10 | 103.8 | 1.077 |
| 1006 | 3.73 | 34.401 | .34 | 3.22 | 700 | 4.48 | 34.27 | .34 | 3.38 | 27.18 | 96.6 | 1.177 |
| | | | | | 800 | 4.22 | 34.30 | .30 | 3.39 | 27.23 | 92.5 | 1.271 |
| | | | | | 1000 | 3.74 | 34.40 | .33 | 3.23 | 27.36 | 81.2 | 1.445 |

CBH159 42 41.0 N 128 0.0 W DATE 1 AUG 62 1625 GCT WIRE 4 DRY 63.0 WET 62.0
WIND DIRECTION 30 VEL 3 KTS BAR 23 SWELL DIRECTION 34 H 1 T 8 CLOUD 0 AMT 10 WEATHER 60

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.58 | 31.799 | 5.67 | .47 | 0 | 16.58 | 31.80 | 5.68 | .47 | 23.19 | 470.2 | 0 |
| 10 | 16.48 | 31.948 | 5.76 | | 10 | 16.48 | 31.95 | 5.77 | -0.06 | 23.33 | 457.4 | .046 |
| 20 | 16.19 | 32.028 | 5.58 | | 20 | 16.19 | 32.03 | 5.58 | .18 | 23.45 | 445.6 | .092 |
| 30 | 15.61 | 32.125 | 5.77 | .43 | 30 | 15.61 | 32.13 | 5.78 | .43 | 23.66 | 426.4 | .135 |
| 52 | 12.72 | 32.680 | 6.45 | .97 | 50 | 13.01 | 32.63 | 6.39 | .92 | 24.58 | 338.6 | .212 |
| 103 | 9.20 | 32.825 | 5.99 | 1.08 | 75 | 10.67 | 32.81 | 6.24 | 1.06 | 25.15 | 284.3 | .289 |
| 154 | 8.67 | 33.582 | 3.77 | 2.13 | 100 | 9.30 | 32.82 | 6.08 | 1.07 | 25.39 | 262.1 | .358 |
| 205 | 8.14 | 33.849 | 2.91 | 2.21 | 150 | 8.71 | 33.52 | 3.95 | 2.05 | 26.03 | 201.8 | .474 |
| 305 | 7.02 | 33.993 | 2.08 | 2.61 | 200 | 8.19 | 33.84 | 2.96 | 2.20 | 26.36 | 171.5 | .567 |
| 406 | 6.06 | 34.025 | 1.68 | 2.73 | 250 | 7.63 | 33.95 | 2.44 | 2.39 | 26.53 | 155.8 | .649 |
| 507 | 5.09 | 34.102 | 1.09 | 2.92 | 300 | 7.08 | 33.99 | 2.10 | 2.59 | 26.64 | 146.3 | .724 |
| 607 | 4.87 | 34.168 | .64 | 3.04 | 400 | 6.11 | 34.02 | 1.70 | 2.73 | 26.79 | 132.3 | .864 |
| 808 | 4.19 | 34.347 | .25 | 3.15 | 500 | 5.15 | 34.10 | 1.13 | 2.91 | 26.97 | 115.4 | .987 |
| 1009 | 3.67 | 34.411 | .27 | 3.17 | 600 | 4.87 | 34.16 | .67 | 3.03 | 27.05 | 108.7 | 1.099 |
| 1209 | 3.10 | 34.491 | .46 | 3.28 | 700 | 4.57 | 34.25 | .39 | 3.11 | 27.16 | 98.9 | 1.203 |
| | | | | | 800 | 4.22 | 34.34 | .26 | 3.15 | 27.27 | 89.2 | 1.297 |
| | | | | | 1000 | 3.69 | 34.41 | .26 | 3.17 | 27.37 | 79.7 | 1.466 |
| | | | | | 1200 | 3.13 | 34.49 | .45 | 3.27 | 27.49 | 68.5 | 1.614 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH 165 42 0.0 N 127 52.8 W DATE 1 AUG 62 2242 GCT WIRE 5 DRY 64.5 WET 63.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 23 SWELL DIRECTION 34 H 2 T 8 CLOUD 8 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.75 | 31.621 | 5.53 | .28 | 0 | 16.75 | 31.63 | 5.54 | .28 | 23.01 | 487.0 | 0 |
| 10 | 16.40 | 31.640 | 5.77 | .30 | 10 | 16.40 | 31.65 | 5.78 | .30 | 23.11 | 478.2 | .048 |
| 20 | 16.14 | 31.831 | 5.69 | .29 | 20 | 16.14 | 31.84 | 5.69 | .29 | 23.31 | 458.9 | .095 |
| 30 | 15.95 | | 5.75 | .36 | 30 | 15.95 | 32.20 | 5.76 | .36 | 23.63 | 428.5 | .139 |
| 52 | 14.40 | 32.807 | 6.04 | .42 | 50 | 14.61 | 32.84 | 6.01 | .42 | 24.42 | 354.0 | .214 |
| 77 | 10.73 | 32.794 | 6.30 | .60 | 75 | 11.01 | 32.81 | 6.29 | .58 | 25.10 | 289.4 | .298 |
| 103 | 9.82 | 32.895 | 5.81 | .92 | 100 | 9.84 | 32.88 | 5.89 | .88 | 25.35 | 266.1 | .368 |
| 154 | 8.67 | 33.341 | 4.90 | 1.55 | 150 | 8.73 | 33.30 | 4.98 | 1.51 | 25.86 | 218.5 | .489 |
| 205 | 8.16 | 33.823 | 3.69 | 1.77 | 200 | 8.20 | 33.78 | 3.81 | 1.76 | 26.31 | 175.8 | .587 |
| 306 | 6.52 | 33.972 | 2.45 | 2.39 | 250 | 7.45 | 33.96 | 3.00 | 2.06 | 26.57 | 152.4 | .669 |
| 407 | 5.45 | 34.026 | 1.83 | 2.61 | 300 | 6.62 | 33.96 | 2.49 | 2.36 | 26.68 | 141.9 | .743 |
| 507 | 4.98 | 34.092 | .98 | 3.06 | 400 | 5.51 | 34.02 | 1.87 | 2.60 | 26.87 | 124.7 | .876 |
| 607 | 4.62 | 34.254 | .61 | 2.96 | 500 | 5.00 | 34.09 | 1.04 | 3.03 | 26.98 | 114.4 | .996 |
| 808 | 4.12 | 34.338 | .29 | 3.19 | 600 | 4.64 | 34.24 | .63 | 2.97 | 27.14 | 100.1 | 1.103 |
| 1007 | 3.56 | 34.409 | .34 | 3.07 | 700 | 4.37 | 34.31 | .40 | 3.05 | 27.23 | 92.3 | 1.199 |
| | | | | | 800 | 4.14 | 34.34 | .29 | 3.18 | 27.27 | 88.4 | 1.289 |
| | | | | | 1000 | 3.58 | 34.41 | .33 | 3.08 | 27.38 | 78.6 | 1.456 |
| BH 145 42 0.0 N 127 26.5 W DATE 2 AUG 62 1852 GCT WIRE 5 DRY 62.0 WET 62.0 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 4 KTS BAR 16 SWELL DIRECTION 32 H 1 T 8 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 16.48 | 31.893 | 5.69 | | 0 | 16.48 | 31.89 | 5.69 | 0 | 23.28 | 461.9 | 0 |
| 10 | 16.33 | 31.884 | 5.81 | | 10 | 16.33 | 31.89 | 5.82 | 0 | 23.31 | 458.8 | .046 |
| 20 | 16.17 | 31.888 | 5.79 | .37 | 20 | 16.17 | 31.89 | 5.80 | .38 | 23.35 | 455.4 | .092 |
| 30 | 15.76 | 32.165 | 5.76 | .39 | 30 | 15.76 | 32.17 | 5.77 | .39 | 23.65 | 426.6 | .136 |
| 52 | 12.42 | 32.690 | 6.30 | .57 | 50 | 12.76 | 32.65 | 6.24 | .55 | 24.65 | 331.7 | .212 |
| 77 | 10.80 | 32.712 | 6.51 | .73 | 75 | 10.88 | 32.71 | 6.51 | .72 | 25.04 | 294.9 | .290 |
| 103 | 9.57 | 32.758 | 6.25 | | 100 | 9.69 | 32.72 | 6.31 | 1.04 | 25.25 | 275.3 | .361 |
| 154 | 8.26 | 33.630 | 4.09 | 1.82 | 150 | 8.32 | 33.55 | 4.28 | 1.76 | 26.12 | 193.8 | .478 |
| 205 | 7.85 | 33.861 | 3.03 | 2.18 | 200 | 7.87 | 33.86 | 3.10 | 2.15 | 26.42 | 165.5 | .568 |
| 304 | 6.55 | 34.020 | 2.32 | 2.53 | 250 | 7.27 | 33.96 | 2.61 | 2.37 | 26.59 | 149.8 | .647 |
| 406 | 5.74 | 34.062 | 1.40 | 2.81 | 300 | 6.60 | 34.02 | 2.33 | 2.52 | 26.73 | 137.5 | .719 |
| 506 | 5.03 | 34.099 | .93 | 3.06 | 400 | 5.78 | 34.06 | 1.45 | 2.80 | 26.87 | 125.3 | .850 |
| 606 | 4.56 | 34.190 | .50 | 3.14 | 500 | 5.07 | 34.10 | .95 | 3.05 | 26.98 | 114.5 | .970 |
| 806 | 4.10 | 34.321 | .36 | 3.25 | 600 | 4.58 | 34.18 | .52 | 3.14 | 27.10 | 103.7 | 1.079 |
| 1004 | 3.42 | 34.407 | .45 | 3.23 | 700 | 4.32 | 34.26 | .43 | 3.20 | 27.19 | 95.7 | 1.179 |
| | | | | | 800 | 4.11 | 34.32 | .36 | 3.25 | 27.26 | 89.6 | 1.271 |
| | | | | | 1000 | 3.44 | 34.41 | .45 | 3.23 | 27.40 | 77.0 | 1.438 |
| BH 125 42 0.0 N 126 59.8 W DATE 2 AUG 62 1450 GCT WIRE 6 DRY 62.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 2 KTS BAR 18 SWELL DIRECTION 28 H 1 T 8 CLOUD 0 AMT 3 WEATHER 03 | | | | | | | | | | | | |
| 0 | 15.88 | 31.068 | 5.71 | .28 | 0 | 15.88 | 31.07 | 5.71 | .28 | 22.79 | 508.7 | 0 |
| 10 | 15.51 | 32.291 | 5.87 | .35 | 10 | 15.51 | 32.30 | 5.88 | .35 | 23.80 | 411.6 | .046 |
| 20 | 15.03 | 32.442 | 6.11 | .33 | 20 | 15.03 | 32.45 | 6.11 | .33 | 24.03 | 390.9 | .086 |
| 30 | 14.36 | 32.592 | 6.18 | .41 | 30 | 14.36 | 32.60 | 6.19 | .42 | 24.28 | 366.5 | .124 |
| 52 | 10.88 | 32.707 | 6.41 | .71 | 50 | 11.22 | 32.70 | 6.40 | .68 | 24.98 | 300.8 | .191 |
| 77 | 8.85 | 32.955 | 5.95 | 1.00 | 75 | 8.94 | 32.84 | 6.01 | .98 | 25.46 | 254.5 | .260 |
| 103 | 8.63 | 33.198 | 4.98 | 1.46 | 100 | 8.66 | 33.16 | 5.09 | 1.41 | 25.76 | 227.1 | .320 |
| 154 | 8.12 | 33.566 | 4.20 | 1.72 | 150 | 8.16 | 33.55 | 4.24 | 1.71 | 26.14 | 191.8 | .425 |
| 205 | 7.79 | 33.882 | 3.04 | 2.09 | 200 | 7.82 | 33.86 | 3.15 | 2.06 | 26.43 | 164.7 | .514 |
| 305 | 6.49 | 33.946 | 2.60 | 2.25 | 250 | 7.22 | 33.96 | 2.74 | 2.19 | 26.60 | 149.1 | .593 |
| 406 | 5.85 | 34.050 | 1.34 | 2.67 | 300 | 6.56 | 33.96 | 2.60 | 2.25 | 26.69 | 141.1 | .665 |
| 505 | 5.12 | 34.147 | .75 | 2.92 | 400 | 5.88 | 34.04 | 1.42 | 2.64 | 26.84 | 127.8 | .799 |
| 604 | 4.62 | 34.207 | .44 | 3.04 | 500 | 5.16 | 34.14 | .77 | 2.91 | 27.00 | 112.1 | .919 |
| 804 | 4.00 | 34.323 | .34 | 3.17 | 600 | 4.64 | 34.20 | .47 | 3.04 | 27.11 | 102.8 | 1.027 |
| 1002 | 3.58 | 34.419 | .40 | 3.14 | 700 | 4.28 | 34.26 | .35 | 3.12 | 27.20 | 94.8 | 1.125 |
| | | | | | 800 | 4.01 | 34.32 | .34 | 3.17 | 27.27 | 88.2 | 1.217 |
| | | | | | 1000 | 3.58 | 34.42 | .40 | 3.14 | 27.39 | 77.8 | 1.383 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| BH 105 42 0.0 N 126 33.0 W DATE 3 AUG 62 0042 GCT WIRE 3 DRY 63.0 WET 63.0 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 4 KTS BAR 14 SWELL DIRECTION 21 H 1 T 8 CLOUD 0 AMT 10 WEATHER 50 | | | | | | | | | | | | |
| 0 | 16.29 | 32.034 | 5.71 | .32 | 0 | 16.29 | 32.04 | 5.71 | .32 | 23.43 | 446.8 | 0 |
| 10 | 15.59 | 32.233 | 5.90 | .36 | 10 | 15.59 | 32.24 | 5.91 | .36 | 23.74 | 417.6 | .043 |
| 20 | 15.05 | 32.320 | 5.92 | .38 | 20 | 15.05 | 32.32 | 5.93 | .38 | 23.93 | 400.2 | .084 |
| 30 | 14.28 | 32.519 | 6.20 | .47 | 30 | 14.28 | 32.52 | 6.20 | .47 | 24.24 | 370.3 | .123 |
| 52 | 11.70 | 32.698 | 6.51 | .58 | 50 | 11.94 | 32.69 | 6.50 | .57 | 24.84 | 314.0 | .191 |
| 77 | 10.17 | 32.742 | 6.37 | .73 | 75 | 10.25 | 32.74 | 6.40 | .72 | 25.17 | 282.3 | .266 |
| 103 | 9.22 | 32.831 | 5.83 | | 100 | 9.30 | 32.82 | 5.91 | 1.01 | 25.39 | 262.2 | .334 |
| 154 | 8.31 | 33.467 | 4.46 | 1.69 | 150 | 8.36 | 33.41 | 4.56 | 1.64 | 26.00 | 204.7 | .450 |
| 205 | 7.54 | 33.887 | 3.66 | 1.94 | 200 | 7.61 | 33.86 | 3.73 | 1.92 | 26.46 | 161.7 | .542 |
| 304 | 6.47 | 34.021 | 2.16 | 2.49 | 250 | 7.00 | 34.01 | 2.93 | 2.20 | 26.66 | 142.8 | .618 |
| 405 | 5.62 | 34.058 | 1.36 | 2.82 | 300 | 6.51 | 34.02 | 2.21 | 2.47 | 26.74 | 136.5 | .688 |
| 505 | 4.97 | 34.134 | .81 | 3.07 | 400 | 5.66 | 34.06 | 1.39 | 2.81 | 26.88 | 124.1 | .818 |
| 604 | 4.52 | 34.191 | .41 | 3.28 | 500 | 5.00 | 34.13 | .83 | 3.06 | 27.01 | 111.1 | .935 |
| 805 | 4.08 | 34.328 | .29 | 3.30 | 600 | 4.53 | 34.19 | .42 | 3.27 | 27.11 | 102.8 | 1.042 |
| 1002 | 3.56 | 34.425 | .36 | 3.23 | 700 | 4.28 | 34.26 | .35 | 3.29 | 27.19 | 95.3 | 1.141 |
| | | | | | 800 | 4.09 | 34.32 | .29 | 3.30 | 27.27 | 88.8 | 1.233 |
| | | | | | 1000 | 3.57 | 34.42 | .36 | 3.23 | 27.40 | 77.1 | 1.399 |
| BH 85 42 0.0 N 126 6.5 W DATE 3 AUG 62 0405 GCT WIRE 16 DRY 62.0 WET 62.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 3 KTS BAR 13 SWELL DIRECTION 31 H 1 T 7 CLOUD 0 AMT 10 WEATHER 59 | | | | | | | | | | | | |
| 0 | 16.16 | 32.157 | 5.75 | .48 | 0 | 16.16 | 32.16 | 5.76 | .49 | 23.56 | 435.0 | 0 |
| 10 | 15.87 | 32.148 | 5.79 | .45 | 10 | 15.88 | 32.15 | 5.80 | .45 | 23.62 | 429.7 | .043 |
| 20 | 15.65 | 32.237 | 5.79 | .38 | 20 | 15.65 | 32.24 | 5.80 | .38 | 23.73 | 418.8 | .086 |
| 30 | 15.25 | 32.290 | 5.95 | .44 | 30 | 15.25 | 32.29 | 5.95 | .44 | 23.86 | 406.8 | .127 |
| 52 | 11.81 | 32.637 | 6.51 | .60 | 50 | 12.17 | 32.60 | 6.47 | .58 | 24.73 | 324.6 | .200 |
| 75 | 9.74 | 32.686 | 6.22 | .87 | 75 | 9.74 | 32.69 | 6.22 | .88 | 25.22 | 277.8 | .275 |
| 101 | 9.18 | 33.020 | 5.59 | 1.20 | 100 | 9.18 | 33.00 | 5.62 | 1.19 | 25.55 | 246.3 | .341 |
| 151 | 8.05 | 33.523 | 4.44 | 1.76 | 150 | 8.07 | 33.51 | 4.47 | 1.75 | 26.12 | 192.8 | .451 |
| 201 | 7.76 | 33.885 | 2.73 | 2.32 | 200 | 7.76 | 33.88 | 2.76 | 2.31 | 26.46 | 162.2 | .539 |
| 300 | 6.66 | 33.986 | 2.10 | 2.63 | 250 | 7.26 | 33.93 | 2.20 | 2.54 | 26.57 | 151.8 | .618 |
| 397 | 5.63 | 34.050 | 1.32 | 2.86 | 300 | 6.67 | 33.99 | 2.10 | 2.64 | 26.70 | 140.4 | .691 |
| 491 | 5.15 | 34.113 | .85 | 3.06 | 400 | 5.61 | 34.05 | 1.30 | 2.87 | 26.88 | 123.8 | .823 |
| 585 | 4.74 | 34.184 | .50 | 3.18 | 500 | 5.11 | 34.12 | .81 | 3.07 | 26.99 | 113.2 | .941 |
| 778 | 4.11 | 34.303 | .31 | 3.28 | 600 | 4.68 | 34.19 | .47 | 3.19 | 27.10 | 104.1 | 1.050 |
| 973 | 3.62 | 34.397 | .38 | 3.30 | 700 | 4.34 | 34.26 | .33 | 3.26 | 27.19 | 95.9 | 1.150 |
| | | | | | 800 | 4.05 | 34.31 | .32 | 3.29 | 27.26 | 89.1 | 1.242 |
| | | | | | 1000 | 3.55 | 34.41 | .39 | 3.30 | 27.39 | 78.0 | 1.409 |
| BH 65 42 0.0 N 125 40.0 W DATE 3 AUG 62 0835 GCT WIRE 12 DRY 62.0 WET 62.0 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 3 KTS BAR 11 SWELL DIRECTION 19 H 1 T 8 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 16.08 | 31.947 | 5.59 | .37 | 0 | 16.08 | 31.95 | 5.59 | .38 | 23.41 | 448.6 | 0 |
| 10 | 15.98 | 31.991 | 5.65 | .41 | 10 | 15.98 | 32.00 | 5.66 | .42 | 23.47 | 443.5 | .045 |
| 20 | 14.71 | 32.331 | 5.95 | .50 | 20 | 14.71 | 32.34 | 5.95 | .51 | 24.01 | 392.5 | .086 |
| 30 | 11.96 | 32.725 | 6.18 | .74 | 30 | 11.96 | 32.73 | 6.19 | .75 | 24.86 | 311.4 | .122 |
| 50 | 10.76 | 32.692 | 6.42 | .77 | 50 | 10.76 | 32.70 | 6.43 | .78 | 25.05 | 293.5 | .182 |
| 75 | 9.43 | 32.744 | 5.79 | .97 | 75 | 9.43 | 32.75 | 5.80 | .98 | 25.32 | 268.7 | .252 |
| 101 | 8.65 | 33.036 | 5.37 | 1.41 | 100 | 8.67 | 33.02 | 5.39 | 1.39 | 25.65 | 237.3 | .316 |
| 150 | 8.02 | 33.733 | 3.46 | 2.14 | 150 | 8.02 | 33.74 | 3.47 | 2.15 | 26.31 | 175.6 | .419 |
| 200 | 7.51 | 33.922 | 2.36 | 2.39 | 200 | 7.52 | 33.93 | 2.36 | 2.40 | 26.53 | 155.1 | .501 |
| 299 | 6.35 | 33.956 | | 2.38 | 250 | 6.91 | 33.94 | 1.88 | 2.38 | 26.62 | 146.8 | .577 |
| 398 | 5.59 | 34.032 | 1.49 | 2.86 | 300 | 6.34 | 33.96 | 1.58 | 2.38 | 26.71 | 138.7 | .648 |
| 496 | 4.85 | 34.074 | 1.03 | 3.03 | 400 | 5.57 | 34.03 | 1.48 | 2.87 | 26.87 | 124.8 | .780 |
| 593 | 4.51 | 34.169 | .54 | 3.12 | 500 | 4.83 | 34.08 | 1.01 | 3.03 | 26.99 | 113.0 | .899 |
| 786 | 4.00 | 34.345 | .41 | 3.28 | 600 | 4.49 | 34.18 | .52 | 3.13 | 27.11 | 103.2 | 1.007 |
| 981 | 3.50 | 34.409 | .45 | 3.26 | 700 | 4.21 | 34.27 | .47 | 3.22 | 27.21 | 93.3 | 1.105 |
| | | | | | 800 | 3.96 | 34.35 | .41 | 3.28 | 27.30 | 85.2 | 1.194 |
| | | | | | 1000 | 3.45 | 34.42 | .45 | 3.26 | 27.40 | 76.4 | 1.356 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |

BH 45 42 0.2 N 125 13.2 W DATE 3 AUG 62 1235 GCT WIRE 9 DRY 55.0 WET 55.0
WIND DIRECTION 30 VEL 4 KTS BAR 10 SWELL DIRECTION 25 H 3 T 6 CLOUD 0 AMT 10 WEATHER 28

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.57 | 32.960 | 5.83 | 1.22 | 0 | 9.57 | 32.96 | 5.83 | 1.23 | 25.44 | 253.7 | 0 |
| 10 | 9.91 | 33.338 | 6.14 | 1.32 | 10 | 9.91 | 33.33 | 6.15 | 1.33 | 25.69 | 231.9 | .024 |
| 20 | 10.34 | 33.747 | 6.34 | 1.35 | 20 | 10.34 | 33.75 | 6.34 | 1.36 | 25.94 | 208.0 | .046 |
| 30 | 9.89 | 33.765 | 5.88 | 1.52 | 30 | 9.89 | 33.77 | 5.89 | 1.52 | 26.04 | 199.6 | .067 |
| 52 | 9.35 | 33.838 | 5.27 | 1.94 | 50 | 9.39 | 33.83 | 5.32 | 1.90 | 26.17 | 187.4 | .105 |
| 103 | 8.06 | 33.886 | 3.67 | 2.26 | 75 | 8.72 | 33.87 | 4.51 | 2.15 | 26.30 | 174.9 | .151 |
| 152 | 7.63 | 33.958 | 2.92 | 2.48 | 100 | 8.12 | 33.89 | 3.76 | 2.26 | 26.41 | 165.3 | .193 |
| 202 | 7.04 | 33.991 | 2.20 | 2.48 | 150 | 7.64 | 33.96 | 2.94 | 2.47 | 26.53 | 154.0 | .273 |
| 301 | 6.26 | 34.050 | 1.52 | 2.82 | 200 | 7.06 | 33.99 | 2.23 | 2.48 | 26.64 | 144.3 | .347 |
| 398 | 5.72 | 34.144 | .81 | 3.12 | 250 | 6.62 | 34.02 | 1.81 | 2.62 | 26.72 | 137.0 | .418 |
| 494 | 5.31 | 34.191 | .61 | 3.22 | 300 | 6.27 | 34.05 | 1.52 | 2.82 | 26.79 | 130.8 | .485 |
| 590 | 5.05 | 34.238 | .45 | | 400 | 5.71 | 34.15 | .80 | 3.12 | 26.94 | 118.2 | .609 |
| 782 | 4.27 | 34.324 | .31 | 3.45 | 500 | 5.29 | 34.19 | .60 | 3.23 | 27.03 | 109.9 | .723 |
| 974 | 3.62 | 34.422 | .41 | 3.30 | 600 | 5.01 | 34.24 | .44 | 3.34 | 27.10 | 104.5 | .830 |
| 1169 | 3.22 | 34.468 | .56 | 3.39 | 700 | 4.62 | 34.29 | .34 | 3.42 | 27.18 | 97.1 | .931 |
| | | | | | 800 | 4.20 | 34.33 | .31 | 3.44 | 27.26 | 89.5 | 1.024 |
| | | | | | 1000 | 3.56 | 34.43 | .43 | 3.31 | 27.41 | 76.5 | 1.190 |

BH 35 42 0.1 N 124 59.8 W DATE 3 AUG 62 1600 GCT WIRE 5 DRY 57.0 WET 56.0
WIND DIRECTION VEL C KTS BAR 11 SWELL DIRECTION 25 H 3 T 7 CLOUD 0 AMT 10 WEATHER 01

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.35 | 32.627 | 6.32 | .79 | 0 | 11.35 | 32.63 | 6.32 | .79 | 24.90 | 307.3 | 0 |
| 10 | 9.30 | 33.380 | 5.62 | 1.48 | 10 | 9.30 | 33.38 | 5.63 | 1.49 | 25.83 | 218.5 | .026 |
| 20 | 9.77 | 33.818 | 5.77 | 1.51 | 20 | 9.77 | 33.82 | 5.78 | 1.52 | 26.10 | 193.6 | .047 |
| 30 | 9.60 | 33.906 | 5.38 | 1.89 | 30 | 9.60 | 33.91 | 5.39 | 1.90 | 26.19 | 184.5 | .066 |
| 52 | 9.08 | 33.902 | 4.77 | 1.99 | 50 | 9.14 | 33.90 | 4.83 | 1.98 | 26.26 | 178.3 | .102 |
| 77 | 8.10 | 33.939 | 3.27 | 2.32 | 75 | 8.18 | 33.94 | 3.39 | 2.29 | 26.44 | 161.9 | .145 |
| 103 | 7.69 | 33.982 | 2.74 | 2.45 | 100 | 7.72 | 33.98 | 2.77 | 2.44 | 26.54 | 152.7 | .184 |
| 152 | 7.15 | 34.006 | 2.29 | 2.51 | 150 | 7.17 | 34.01 | 2.30 | 2.51 | 26.64 | 143.7 | .258 |
| 201 | 6.92 | 34.034 | 1.88 | | 200 | 6.92 | 34.03 | 1.89 | 2.60 | 26.69 | 139.2 | .329 |
| 296 | 6.18 | 34.090 | 1.17 | 2.81 | 250 | 6.54 | 34.06 | 1.48 | 2.70 | 26.77 | 132.6 | .397 |
| 391 | 5.84 | 34.133 | .89 | 3.01 | 300 | 6.16 | 34.09 | 1.15 | 2.82 | 26.84 | 126.3 | .461 |
| 487 | | 34.168 | .69 | 3.13 | 400 | 5.81 | 34.14 | .87 | 3.02 | 26.92 | 120.1 | .584 |
| 584 | 5.19 | 34.223 | .50 | 3.20 | 500 | 5.47 | 34.18 | .66 | 3.14 | 26.99 | 113.6 | .701 |
| 778 | 4.46 | 34.309 | .34 | 3.30 | 600 | 5.13 | 34.23 | .48 | 3.21 | 27.08 | 106.8 | .811 |
| | | | | | 700 | 4.76 | 34.28 | .37 | 3.27 | 27.16 | 99.5 | .914 |
| | | | | | 800 | 4.38 | 34.32 | .34 | 3.31 | 27.23 | 92.7 | 1.011 |

BH 25 42 0.3 N 124 46.2 W DATE 3 AUG 62 1853 GCT WIRE 9 DRY 59.0 WET 57.0
WIND DIRECTION VEL C KTS BAR 13 SWELL DIRECTION 29 H 3 T 8 CLOUD 0 AMT 9 WEATHER 01

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.12 | 33.752 | 6.26 | 1.43 | 0 | 11.13 | 33.76 | 6.27 | 1.43 | 25.81 | 220.4 | 0 |
| 10 | 11.79 | 33.769 | 5.89 | 1.38 | 10 | 11.79 | 33.77 | 5.90 | 1.39 | 25.70 | 231.0 | .023 |
| 20 | 9.46 | 33.791 | 4.57 | 1.86 | 20 | 9.46 | 33.80 | 4.57 | 1.86 | 26.13 | 190.7 | .044 |
| 30 | 8.67 | 33.816 | 3.75 | 2.16 | 30 | 8.67 | 33.82 | 3.76 | 2.16 | 26.27 | 177.0 | .062 |
| 52 | 8.33 | 33.898 | 3.72 | 2.40 | 50 | 8.36 | 33.89 | 3.72 | 2.40 | 26.38 | 167.5 | .096 |
| 76 | 8.10 | 33.926 | 3.26 | 2.33 | 75 | 8.11 | 33.93 | 3.28 | 2.33 | 26.44 | 161.7 | .138 |
| 101 | 7.82 | 33.944 | 2.98 | 2.44 | 100 | 7.83 | 33.94 | 2.99 | 2.43 | 26.50 | 156.8 | .177 |
| 152 | 7.54 | 33.984 | 2.52 | 3.15 | 150 | 7.55 | 33.98 | 2.54 | 3.13 | 26.57 | 150.7 | .254 |
| 203 | 7.00 | 34.014 | 2.10 | 2.62 | 200 | 7.03 | 34.01 | 2.12 | 2.66 | 26.66 | 142.2 | .327 |
| 304 | 6.53 | 34.091 | 1.44 | 2.88 | 250 | 6.72 | 34.05 | 1.76 | 2.63 | 26.74 | 135.8 | .397 |
| 405 | 6.28 | 34.122 | 1.09 | 3.11 | 300 | 6.54 | 34.09 | 1.46 | 2.85 | 26.79 | 131.5 | .464 |
| 504 | 5.66 | 34.160 | .72 | 3.33 | 400 | 6.29 | 34.12 | 1.10 | 3.10 | 26.85 | 127.4 | .593 |
| 604 | 5.18 | 34.219 | .50 | 3.70 | 500 | 5.69 | 34.16 | .73 | 3.32 | 26.95 | 117.5 | .716 |
| | | | | | 600 | 5.20 | 34.22 | .51 | 3.68 | 27.06 | 108.7 | .829 |

BH 15 42 0.0 N 124 32.8 W DATE 3 AUG 62 2205 GCT WIRE 0 DRY 56.0 WET 55.0
WIND DIRECTION 20 VEL 2 KTS BAR 14 SWELL DIRECTION 28 H 2 T 6 CLOUD 9 AMT 9 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.52 | 33.786 | 5.54 | 1.78 | 0 | 10.52 | 33.79 | 5.55 | 1.79 | 25.94 | 207.7 | 0 |
| 10 | 9.48 | 33.873 | 5.03 | 1.94 | 10 | 9.48 | 33.88 | 5.04 | 1.95 | 26.19 | 184.8 | .020 |
| 20 | 8.73 | 33.902 | 3.96 | 2.14 | 20 | 8.73 | 33.91 | 3.97 | 2.15 | 26.33 | 171.4 | .037 |
| 31 | 8.31 | 33.933 | 3.37 | 2.21 | 30 | 8.34 | 33.93 | 3.41 | 2.21 | 26.41 | 163.9 | .054 |
| 52 | 8.00 | 33.976 | 2.90 | 2.37 | 50 | 8.01 | 33.97 | 2.93 | 2.35 | 26.49 | 156.4 | .086 |
| 78 | 7.89 | 34.000 | 2.30 | 2.64 | 75 | 7.90 | 34.00 | 2.36 | 2.61 | 26.53 | 153.3 | .125 |
| 105 | 7.75 | 34.009 | 2.22 | 2.66 | 100 | 7.78 | 34.01 | 2.23 | 2.66 | 26.55 | 151.2 | .163 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

RH 5 42 0.0 N 124 19.5 W DATE 4 AUG 62 0055 GCT WIRE 1 DRY 56.0 WET 55.0
WIND DIRECTION VEL 0 KTS BAR 13 SWELL DIRECTION 28 H 3 T 8 CLOUD 9 AMT 7 WEATHER -

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.48 | 33.849 | 9.14 | .44 | 0 | 11.48 | 33.85 | 9.14 | .44 | 25.82 | 219.5 | 0 |
| 10 | 10.32 | 33.882 | 6.39 | 1.28 | 10 | 10.32 | 33.89 | 6.40 | 1.29 | 26.05 | 197.5 | .021 |
| 20 | 9.04 | 33.930 | 3.73 | 2.83 | 20 | 9.04 | 33.93 | 3.73 | 2.84 | 26.30 | 173.9 | .039 |
| 30 | 8.54 | 33.936 | 3.00 | 2.52 | 30 | 8.54 | 33.94 | 3.01 | 2.52 | 26.39 | 166.2 | .056 |

NH 5 44 39.1 N 124 10.6 W DATE 4 SEP 62 1845 GCT WIRE 0 DRY 54.5 WET 54.0
WIND DIRECTION VEL 0 KTS BAR 16 SWELL DIRECTION 28 H 1 T 7 CLOUD 0 AMT 10 WEATHER 28

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.48 | 32.798 | 6.01 | | 0 | 10.48 | 32.80 | 6.02 | | 25.18 | 280.1 | 0 |
| 10 | 8.74 | 33.316 | 4.44 | | 10 | 8.74 | 33.32 | 4.44 | | 25.87 | 214.9 | .025 |
| 20 | 8.04 | 33.549 | 2.68 | | 20 | 8.04 | 33.55 | 2.68 | | 26.16 | 187.6 | .045 |
| 30 | 7.78 | 33.653 | 2.89 | | 30 | 7.79 | 33.66 | 2.90 | | 26.28 | 176.4 | .063 |
| 40 | 7.48 | 33.784 | 2.39 | | 50 | 7.23 | 33.86 | 1.43 | | 26.52 | 153.9 | .096 |
| 50 | 7.23 | 33.858 | 1.42 | | | | | | | | | |

NH 15 44 39.1 N 124 24.6 W DATE 4 SEP 62 2055 GCT WIRE 0 DRY 56.0 WET 56.0
WIND DIRECTION VEL 0 KTS BAR 16 SWELL DIRECTION 31 H 1 T 7 CLOUD 0 AMT 10 WEATHER 28

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.39 | 32.905 | 6.26 | | 0 | 10.39 | 32.91 | 6.27 | | 25.28 | 270.7 | 0 |
| 10 | 9.58 | 33.083 | 5.57 | | 10 | 9.58 | 33.09 | 5.57 | | 25.56 | 244.9 | .026 |
| 20 | 8.46 | 33.073 | 4.54 | | 20 | 8.46 | 33.08 | 4.54 | | 25.72 | 229.0 | .049 |
| 30 | 9.54 | 33.072 | 4.47 | | 30 | 9.54 | 33.08 | 4.47 | | 25.55 | 245.4 | .073 |
| 40 | 8.46 | 33.109 | 4.23 | | 50 | 7.84 | 33.17 | 3.96 | | 25.88 | 214.0 | .119 |
| 50 | 7.84 | 33.162 | 3.95 | | 75 | 7.79 | 33.69 | 2.83 | | 26.30 | 174.8 | .168 |
| 75 | 7.78 | 33.682 | 2.82 | | | | | | | | | |

NH 25 44 39.1 N 124 38.7 W DATE 4 SEP 62 2250 GCT WIRE 3 DRY 56.0 WET 56.0
WIND DIRECTION 30 VEL 2 KTS BAR 15 SWELL DIRECTION 30 H 2 T 8 CLOUD 0 AMT 10 WEATHER 01

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.68 | 32.402 | 6.66 | | 0 | 12.68 | 32.41 | 6.67 | | 24.47 | 347.6 | 0 |
| 10 | 10.88 | 32.660 | 5.76 | | 10 | 10.88 | 32.67 | 5.77 | | 25.01 | 297.1 | .032 |
| 20 | 9.27 | 32.800 | 5.10 | | 20 | 9.27 | 32.80 | 5.10 | | 25.38 | 261.2 | .060 |
| 30 | 8.34 | 32.950 | 4.69 | | 30 | 8.34 | 32.96 | 4.69 | | 25.65 | 236.5 | .085 |
| 50 | 7.84 | 33.176 | 3.99 | | 50 | 7.84 | 33.18 | 3.99 | | 25.90 | 213.0 | .130 |
| 75 | 7.60 | 33.580 | 2.87 | | 75 | 7.60 | 33.58 | 2.88 | | 26.25 | 179.9 | .179 |
| 100 | 7.72 | 33.780 | 3.07 | | 100 | 7.72 | 33.79 | 3.08 | | 26.39 | 167.1 | .222 |
| 155 | 7.32 | 33.934 | 2.01 | | 150 | 7.37 | 33.93 | 2.13 | | 26.55 | 152.2 | .302 |
| 205 | 7.04 | 33.978 | 1.87 | | 200 | 7.06 | 33.98 | 1.88 | | 26.63 | 145.2 | .377 |

NH 35 44 39.1 N 124 52.3 W DATE 5 SEP 62 0050 GCT WIRE 3 DRY 0 WET 0
WIND DIRECTION 33 VEL 3 KTS BAR 15 SWELL DIRECTION 30 H 3 T 7 CLOUD 0 AMT 9 WEATHER 01

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.12 | 31.757 | 5.80 | | 0 | 15.13 | 31.76 | 5.81 | | 23.48 | 442.4 | 0 |
| 10 | 12.78 | 32.317 | 5.34 | | 10 | 12.78 | 32.32 | 5.34 | | 24.39 | 355.9 | .040 |
| 20 | 9.78 | 32.533 | 5.52 | | 20 | 9.78 | 32.54 | 5.53 | | 25.09 | 288.9 | .072 |
| 30 | 9.16 | 32.610 | 5.08 | | 30 | 9.16 | 32.61 | 5.08 | | 25.25 | 273.8 | .100 |
| 50 | 8.32 | 32.983 | 4.20 | | 50 | 8.32 | 32.99 | 4.20 | | 25.67 | 234.1 | .151 |
| 74 | 8.05 | 33.405 | 3.41 | | 75 | 8.05 | 33.42 | 3.38 | | 26.05 | 198.4 | .205 |
| 99 | 8.04 | 33.710 | 2.52 | | 100 | 8.03 | 33.72 | | | 26.29 | 176.4 | .252 |
| 154 | 7.33 | 33.941 | | | 150 | 7.39 | 33.94 | | | 26.55 | 151.8 | .334 |
| 204 | 7.02 | 33.969 | | | 200 | 7.03 | 33.97 | | | 26.63 | 145.6 | .408 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 45 44 39.1 N 125 7.0 W DATE 5 SEP 62 0820 GCT WIRE 5 DRY 63.0 WET 62.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 8 KTS BAR 16 SWELL DIRECTION 30 H 2 T 7 CLOUD - AMT 10 WEATHER 00 | | | | | | | | | | | | |
| 0 | 16.80 | 32.245 | 5.20 | | 0 | 16.80 | 32.25 | 5.20 | | 23.48 | 442.5 | 0 |
| 10 | 16.65 | 32.241 | 5.13 | | 10 | 16.65 | 32.25 | 5.13 | | 23.51 | 439.7 | .044 |
| 20 | 12.54 | 32.529 | 6.07 | | 20 | 12.54 | 32.53 | 6.07 | | 24.60 | 336.1 | .083 |
| 30 | 10.82 | 32.652 | 6.94 | | 30 | 10.82 | 32.66 | 6.94 | | 25.01 | 297.1 | .115 |
| 50 | 8.90 | 32.639 | 4.49 | | 50 | 8.90 | 32.64 | 4.49 | | 25.32 | 268.1 | .171 |
| 76 | 8.20 | 33.160 | 3.86 | | 75 | 8.20 | 33.13 | 3.88 | | 25.81 | 221.8 | .232 |
| 101 | 7.94 | 33.631 | 3.71 | | 100 | 7.95 | 33.61 | 3.71 | | 26.22 | 182.9 | .283 |
| 153 | 7.43 | | 3.20 | | 150 | 7.46 | 33.78 | 3.23 | | 26.42 | 164.7 | .370 |
| 205 | 6.82 | 33.942 | 2.66 | | 200 | 6.88 | 33.93 | 2.71 | | 26.62 | 146.4 | .447 |
| 307 | 6.20 | 34.059 | 1.42 | | 250 | 6.51 | 34.01 | 2.08 | | 26.73 | 136.1 | .518 |
| 408 | 5.42 | 34.086 | 1.01 | | 300 | 6.23 | 34.06 | 1.50 | | 26.80 | 130.0 | .585 |
| 509 | 4.80 | 34.117 | .76 | | 400 | 5.48 | 34.09 | 1.02 | | 26.92 | 119.8 | .709 |
| | | | | | 500 | 4.85 | 34.11 | .78 | | 27.02 | 110.5 | .825 |
| NH 65 44 39.2 N 125 34.2 W DATE 5 SEP 62 1735 GCT WIRE 2 DRY 61.8 WET 60.2 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 4 KTS BAR 17 SWELL DIRECTION 30 H 3 T 8 CLOUD 9 AMT 9 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.83 | 32.205 | | | 0 | 16.83 | 32.21 | | | 23.44 | 446.1 | 0 |
| 10 | 16.80 | 32.203 | | | 10 | 16.80 | 32.21 | | | 23.45 | 445.8 | .045 |
| 20 | 15.63 | 32.311 | | | 20 | 15.63 | 32.32 | | | 23.79 | 412.9 | .088 |
| 30 | 12.13 | 32.412 | 5.63 | | 30 | 12.13 | 32.42 | 5.64 | | 24.90 | 337.4 | .125 |
| 50 | 8.19 | 32.785 | 5.01 | | 50 | 8.19 | 32.79 | 5.02 | | 25.54 | 286.9 | .183 |
| 75 | 8.06 | 33.388 | 3.98 | | 75 | 8.06 | 33.39 | 3.98 | | 26.03 | 200.6 | .239 |
| 101 | 7.87 | 33.663 | 3.33 | | 100 | 7.88 | 33.66 | 3.35 | | 26.26 | 178.8 | .287 |
| 152 | 7.05 | 33.891 | 2.90 | | 150 | 7.09 | 33.89 | 2.91 | | 26.56 | 151.4 | .369 |
| 203 | 6.51 | 33.951 | 2.51 | | 200 | 6.54 | 33.95 | 2.53 | | 26.68 | 140.3 | .442 |
| 304 | 6.03 | 34.046 | 1.49 | | 250 | 6.25 | 34.00 | 2.03 | | 26.76 | 133.6 | .511 |
| 404 | 5.44 | 34.107 | .95 | | 300 | 6.04 | 34.04 | 1.53 | | 26.82 | 128.5 | .576 |
| 505 | 5.00 | 34.166 | .64 | | 400 | 5.46 | 34.10 | .96 | | 26.94 | 118.1 | .699 |
| 606 | 4.68 | 34.225 | .42 | | 500 | 5.02 | 34.16 | .65 | | 27.04 | 108.9 | .813 |
| 807 | 4.14 | 34.328 | .28 | | 600 | 4.70 | 34.22 | .43 | | 27.12 | 102.3 | .918 |
| 1008 | 3.64 | 34.444 | .35 | | 700 | 4.42 | 34.27 | .32 | | 27.19 | 95.7 | 1.017 |
| | | | | | 800 | 4.16 | 34.32 | .28 | | 27.26 | 89.6 | 1.110 |
| | | | | | 1000 | 3.66 | 34.44 | .34 | | 27.40 | 77.1 | 1.277 |
| NH 85 44 39.1 N 126 3.2 W DATE 6 SEP 62 0240 GCT WIRE 9 DRY 61.1 WET 59.8 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 17 SWELL DIRECTION 34 H 3 T 8 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.74 | 32.156 | 5.58 | | 0 | 16.75 | 32.16 | 5.58 | | 23.42 | 447.7 | 0 |
| 10 | 16.46 | 32.147 | 6.03 | | 10 | 16.46 | 32.15 | 6.04 | | 23.48 | 442.5 | .045 |
| 20 | 14.95 | 32.310 | 6.48 | | 20 | 14.95 | 32.31 | 6.48 | | 23.94 | 398.9 | .087 |
| 30 | 10.28 | 32.498 | 6.35 | | 30 | 10.28 | 32.50 | 6.35 | | 24.98 | 299.6 | .121 |
| 49 | 8.34 | 32.756 | 4.74 | | 50 | 8.30 | 32.78 | 4.67 | | 25.51 | 249.5 | .176 |
| 75 | 8.06 | 33.299 | 3.37 | | 75 | 8.06 | 33.30 | 3.38 | | 25.96 | 207.2 | .233 |
| 101 | 7.96 | 33.672 | 3.33 | | 100 | 7.96 | 33.66 | 3.33 | | 26.25 | 179.7 | .282 |
| 151 | 7.49 | 33.965 | 2.29 | | 150 | 7.50 | 33.96 | 2.31 | | 26.56 | 151.5 | .365 |
| 202 | 6.85 | 33.897 | 2.43 | | 200 | 6.87 | 33.90 | 2.42 | | 26.60 | 148.3 | .439 |
| 302 | 6.14 | 34.047 | 1.47 | | 250 | 6.47 | 33.95 | 2.04 | | 26.69 | 139.8 | .511 |
| 401 | 5.41 | 34.064 | 1.05 | | 300 | 6.15 | 34.04 | 1.49 | | 26.80 | 129.8 | .579 |
| 502 | 4.90 | 34.143 | .62 | | 400 | 5.42 | 34.06 | 1.05 | | 26.91 | 120.6 | .704 |
| 601 | 4.54 | 34.210 | .39 | | 500 | 4.91 | 34.14 | .63 | | 27.03 | 109.2 | .819 |
| 801 | 4.04 | 34.343 | .35 | | 600 | 4.54 | 34.21 | .39 | | 27.13 | 101.4 | .924 |
| 1001 | 3.50 | 34.420 | .35 | | 700 | 4.28 | 34.28 | .37 | | 27.21 | 93.6 | 1.022 |
| | | | | | 800 | 4.04 | 34.34 | .35 | | 27.29 | 87.0 | 1.112 |
| | | | | | 1000 | 3.50 | 34.42 | .35 | | 27.40 | 76.7 | 1.275 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 105 44 39.1 N 125 28.4 W DATE 6 SEP 62 0600 GCT WIRE 6 DRY 60.2 WET 59.2 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 4 KTS BAR 17 SWELL DIRECTION 34 H 4 T 7 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.12 | 31.694 | 5.78 | | 0 | 17.13 | 31.70 | 5.79 | | 22.98 | 489.8 | 0 |
| 10 | 16.94 | 31.988 | 5.80 | | 10 | 16.94 | 31.99 | 5.81 | | 23.25 | 464.6 | .048 |
| 20 | 17.00 | 32.243 | 5.69 | | 20 | 17.00 | 32.25 | 5.69 | | 23.43 | 447.6 | .093 |
| 30 | 14.82 | 32.402 | 6.01 | | 30 | 14.82 | 32.41 | 6.02 | | 24.04 | 389.7 | .135 |
| 49 | 10.54 | 32.565 | 6.41 | | 50 | 10.42 | 32.57 | 6.40 | | 25.01 | 297.2 | .204 |
| 75 | 8.89 | 32.752 | 5.75 | | 75 | 8.89 | 32.76 | 5.76 | | 25.41 | 259.9 | .273 |
| 100 | 8.46 | 33.262 | 4.56 | | 100 | 8.46 | 33.27 | 4.56 | | 25.87 | 216.1 | .333 |
| 150 | 7.89 | 33.770 | 3.28 | | 150 | 7.90 | 33.77 | 3.29 | | 26.35 | 171.0 | .430 |
| 201 | 7.22 | 33.947 | 2.60 | | 200 | 7.23 | 33.95 | 2.61 | | 26.58 | 149.9 | .510 |
| 300 | 6.25 | 34.016 | 1.64 | | 250 | 6.70 | 34.01 | 2.06 | | 26.70 | 138.9 | .582 |
| 399 | 5.49 | 34.043 | 1.29 | | 300 | 6.26 | 34.02 | 1.65 | | 26.77 | 132.8 | .650 |
| 500 | 4.96 | 34.116 | .78 | | 400 | 5.48 | 34.04 | 1.28 | | 26.89 | 122.9 | .778 |
| 600 | 4.56 | 34.193 | .44 | | 500 | 4.96 | 34.12 | .79 | | 27.01 | 111.4 | .895 |
| 801 | 4.04 | 34.318 | .29 | | 600 | 4.57 | 34.20 | .44 | | 27.12 | 102.5 | 1.002 |
| 1001 | 3.56 | 34.406 | .35 | | 700 | 4.28 | 34.26 | .31 | | 27.20 | 95.1 | 1.100 |
| | | | | | 800 | 4.04 | 34.32 | .29 | | 27.27 | 88.8 | 1.192 |
| | | | | | 1000 | 3.56 | 34.41 | .35 | | 27.38 | 78.4 | 1.360 |
| NH 125 44 39.1 N 126 59.1 W DATE 6 SEP 62 0922 GCT WIRE 3 DRY 61.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 3 KTS BAR 17 SWELL DIRECTION 31 H 2 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.43 | 32.194 | 5.80 | | 0 | 17.44 | 32.20 | 5.81 | | 23.29 | 460.3 | 0 |
| 10 | 17.40 | 32.198 | 5.87 | | 10 | 17.40 | 32.20 | 5.88 | | 23.30 | 459.6 | .046 |
| 20 | 17.32 | 32.209 | 5.79 | | 20 | 17.32 | 32.21 | 5.80 | | 23.33 | 457.2 | .092 |
| 30 | 15.52 | 32.466 | 6.37 | | 30 | 15.52 | 32.47 | 6.38 | | 23.94 | 399.5 | .135 |
| 50 | 12.28 | 32.668 | 6.57 | | 50 | 12.28 | 32.67 | 6.57 | | 24.76 | 321.7 | .207 |
| 75 | 9.20 | 32.725 | 6.35 | | 75 | 9.20 | 32.73 | 6.35 | | 25.34 | 266.6 | .280 |
| 101 | 8.37 | 33.065 | 5.40 | | 100 | 8.38 | 33.05 | 5.44 | | 25.71 | 231.0 | .342 |
| 151 | 7.52 | 33.661 | 4.09 | | 150 | 7.53 | 33.65 | 4.11 | | 26.31 | 175.1 | .444 |
| 203 | 6.84 | 33.897 | 3.26 | | 200 | 6.88 | 33.89 | 3.30 | | 26.59 | 149.1 | .525 |
| 303 | 5.64 | 33.946 | 2.23 | | 250 | 6.24 | 33.92 | 2.72 | | 26.70 | 139.4 | .597 |
| 403 | 4.90 | 34.017 | 1.30 | | 300 | 5.67 | 33.94 | 2.25 | | 26.79 | 131.2 | .665 |
| 504 | 4.57 | 34.126 | .46 | | 400 | 4.92 | 34.01 | 1.33 | | 26.93 | 118.3 | .789 |
| 604 | 4.32 | 34.212 | .38 | | 500 | 4.58 | 34.12 | .68 | | 27.05 | 106.8 | .902 |
| 805 | 3.72 | 34.300 | .33 | | 600 | 4.33 | 34.21 | .39 | | 27.15 | 98.9 | 1.005 |
| 1006 | 3.44 | 34.421 | .49 | | 700 | 4.02 | 34.26 | .36 | | 27.22 | 92.2 | 1.100 |
| | | | | | 800 | 3.73 | 34.30 | .33 | | 27.28 | 86.7 | 1.190 |
| | | | | | 1000 | 3.44 | 34.42 | .48 | | 27.41 | 76.2 | 1.352 |
| NH 145 44 39.1 N 127 27.3 W DATE 6 SEP 62 1345 GCT WIRE 3 DRY 62.0 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 17 SWELL DIRECTION 31 H 3 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.67 | 31.878 | 5.60 | | 0 | 17.67 | 31.88 | 5.60 | | 22.99 | 488.8 | 0 |
| 10 | 17.68 | 31.874 | 4.65 | | 10 | 17.69 | 31.88 | 4.66 | | 22.99 | 489.6 | .049 |
| 20 | 17.67 | 31.885 | 5.37 | | 20 | 17.67 | 31.89 | 5.38 | | 23.00 | 488.8 | .098 |
| 30 | 16.48 | 32.094 | 6.00 | | 30 | 16.48 | 32.10 | 6.01 | | 23.44 | 447.3 | .145 |
| 50 | 12.20 | 32.625 | 6.59 | | 50 | 12.20 | 32.63 | 6.59 | | 24.74 | 323.4 | .222 |
| 76 | 9.40 | 32.636 | 6.40 | | 75 | 9.46 | 32.64 | 6.43 | | 25.22 | 277.5 | .297 |
| 102 | 8.25 | 33.057 | 5.01 | | 100 | 8.30 | 33.02 | 5.13 | | 25.70 | 232.2 | .360 |
| 152 | 7.49 | 33.744 | 3.57 | | 150 | 7.50 | 33.72 | 3.61 | | 26.37 | 169.3 | .461 |
| 204 | 6.84 | 33.903 | 2.54 | | 200 | 6.89 | 33.90 | 2.60 | | 26.60 | 148.4 | .540 |
| 304 | 5.69 | 33.941 | 2.15 | | 250 | 6.27 | 33.94 | 2.26 | | 26.71 | 138.3 | .612 |
| 405 | 5.06 | 34.018 | 1.26 | | 300 | 5.73 | 33.94 | 2.15 | | 26.78 | 132.3 | .680 |
| 507 | 4.78 | 34.130 | .64 | | 400 | 5.08 | 34.01 | 1.31 | | 26.91 | 120.3 | .806 |
| 607 | 4.40 | 34.209 | .35 | | 500 | 4.80 | 34.12 | .67 | | 27.03 | 109.3 | .920 |
| 807 | 3.80 | 34.328 | .26 | | 600 | 4.43 | 34.20 | .36 | | 27.14 | 100.4 | 1.025 |
| 1006 | 3.58 | 34.422 | .33 | | 700 | 4.08 | 34.27 | .31 | | 27.22 | 92.2 | 1.122 |
| | | | | | 800 | 3.82 | 34.32 | .26 | | 27.29 | 85.7 | 1.210 |
| | | | | | 1000 | 3.58 | 34.42 | .33 | | 27.39 | 77.6 | 1.374 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 165 44 39.1 N 127 55.0 W DATE 6 SEP 62 1720 GCT WIRE 6 DRY 61.5 WET 59.8 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 5 KTS BAR 18 SWELL DIRECTION 32 H 6 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.26 | 32.310 | 5.58 | | 0 | 17.26 | 32.31 | 5.58 | | 23.42 | 448.0 | 0 |
| 10 | 17.26 | 32.295 | 4.75 | | 10 | 17.26 | 32.30 | 4.76 | | 23.41 | 449.4 | .045 |
| 20 | 17.26 | 32.300 | 5.60 | | 20 | 17.26 | 32.30 | 5.60 | | 23.41 | 449.3 | .090 |
| 30 | 14.52 | 32.641 | 6.55 | | 30 | 14.52 | 32.65 | 6.56 | | 24.29 | 366.1 | .131 |
| 49 | 11.44 | 32.633 | 5.76 | | 50 | 11.31 | 32.63 | 5.76 | | 24.90 | 307.5 | .198 |
| 75 | 9.12 | 32.643 | 6.02 | | 75 | 9.13 | 32.65 | 6.03 | | 25.29 | 271.4 | .270 |
| 100 | 8.48 | 32.889 | 5.49 | | 100 | 8.48 | 32.89 | 5.49 | | 25.58 | 244.1 | .335 |
| 151 | 8.00 | 33.637 | 3.74 | | 150 | 8.01 | 33.62 | 3.77 | | 26.22 | 183.8 | .442 |
| 202 | 7.16 | 33.884 | 3.26 | | 200 | 7.20 | 33.88 | 3.27 | | 26.54 | 154.2 | .526 |
| 302 | 5.92 | | 2.01 | | 250 | 6.52 | 33.97 | 2.66 | | 26.70 | 139.0 | .599 |
| 403 | 4.92 | 34.025 | 1.20 | | 300 | 5.94 | 33.95 | 2.03 | | 26.76 | 133.9 | .668 |
| 504 | 4.70 | 34.143 | .62 | | 400 | 4.94 | 34.02 | 1.21 | | 26.94 | 117.8 | .793 |
| 604 | 4.40 | 34.224 | .36 | | 500 | 4.70 | 34.14 | .64 | | 27.05 | 107.0 | .906 |
| 806 | 3.83 | 34.325 | .31 | | 600 | 4.41 | 34.22 | .37 | | 27.15 | 99.0 | 1.009 |
| 1006 | 3.42 | 34.397 | .33 | | 700 | 4.12 | 34.28 | .34 | | 27.23 | 91.8 | 1.104 |
| | | | | | 800 | 3.85 | 34.32 | .31 | | 27.29 | 86.2 | 1.193 |
| | | | | | 1000 | 3.43 | 34.40 | .33 | | 27.39 | 77.7 | 1.357 |
| NH 5 44 39.1 N 124 10.7 W DATE 16 OCT 62 0555 GCT WIRE 0 DRY 54.8 WET 53.4 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 13 KTS BAR 30 SWELL DIRECTION 30 H 6 T 9 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 12.79 | 32.392 | 5.87 | | 0 | 12.79 | 32.40 | 5.88 | | 24.45 | 350.3 | 0 |
| 5 | 12.79 | 32.406 | 5.76 | | 10 | 12.93 | 32.39 | 5.88 | | 24.42 | 353.3 | .035 |
| 15 | 13.04 | 32.383 | 6.07 | | 20 | 12.90 | 32.42 | 6.19 | | 24.44 | 351.3 | .070 |
| 25 | 12.73 | 32.457 | 6.21 | | 30 | 12.69 | 32.47 | 6.01 | | 24.52 | 343.9 | .105 |
| 35 | 12.66 | 32.481 | 5.79 | | | | | | | | | |
| 45 | 12.47 | 32.606 | 5.84 | | | | | | | | | |
| NH 15 44 39.2 N 124 24.7 W DATE 16 OCT 62 0755 GCT WIRE 3 DRY 56.0 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 12 KTS BAR 30 SWELL DIRECTION 34 H 3 T 7 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.47 | 32.675 | 6.05 | | 0 | 12.47 | 32.68 | 6.06 | | 24.73 | 323.6 | 0 |
| 10 | 12.47 | 32.675 | 6.05 | | 10 | 12.47 | 32.68 | 6.06 | | 24.73 | 323.8 | .032 |
| 20 | 12.31 | 32.740 | 5.99 | | 20 | 12.31 | 32.75 | 5.99 | | 24.81 | 316.3 | .064 |
| 30 | 12.26 | 32.725 | 5.97 | | 30 | 12.26 | 32.73 | 5.97 | | 24.80 | 316.7 | .096 |
| 49 | 12.02 | 32.786 | 5.80 | | 50 | 12.00 | 32.79 | 5.79 | | 24.90 | 308.0 | .158 |
| 73 | 11.50 | 32.931 | 5.57 | | | | | | | | | |
| NH 25 44 39.1 N 124 38.7 W DATE 16 OCT 62 1034 GCT WIRE 8 DRY 54.0 WET 52.5 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 9 KTS BAR 30 SWELL DIRECTION 28 H 4 T 9 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.36 | 32.606 | 6.18 | | 0 | 12.36 | 32.61 | 6.19 | | 24.69 | 326.7 | 0 |
| 10 | 12.35 | 32.586 | 6.12 | | 10 | 12.35 | 32.59 | 6.13 | | 24.68 | 328.2 | .033 |
| 20 | 12.14 | 32.638 | 5.99 | | 20 | 12.14 | 32.64 | 5.99 | | 24.76 | 320.8 | .065 |
| 30 | 11.31 | 32.807 | 5.53 | | 30 | 11.31 | 32.81 | 5.54 | | 25.04 | 293.9 | .096 |
| 50 | 10.91 | 32.894 | 5.31 | | 50 | 10.91 | 32.90 | 5.32 | | 25.18 | 281.1 | .153 |
| 76 | 8.76 | 33.473 | 4.09 | | 75 | 8.85 | 33.45 | 4.14 | | 25.96 | 207.8 | .215 |
| 102 | 8.07 | 33.666 | 3.37 | | 100 | 8.09 | 33.66 | 3.41 | | 26.23 | 181.7 | .263 |
| 154 | 7.55 | 33.936 | 2.40 | | 150 | 7.57 | 33.92 | 2.45 | | 26.52 | 155.4 | .347 |
| 198 | 7.29 | 33.967 | 2.29 | | 200 | 7.28 | 33.96 | 2.30 | | 26.59 | 149.1 | .424 |
| NH 35 44 39.2 N 124 52.8 W DATE 16 OCT 62 1257 GCT WIRE 8 DRY 54.5 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 12 KTS BAR 30 SWELL DIRECTION 28 H 4 T 9 CLOUD 4 AMT 2 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.98 | 32.664 | 6.01 | | 0 | 11.98 | 32.67 | 6.02 | | 24.81 | 315.6 | 0 |
| 10 | 11.70 | 32.670 | 5.82 | | 10 | 11.70 | 32.67 | 5.82 | | 24.87 | 310.4 | .031 |
| 20 | 11.29 | 32.700 | 5.78 | | 20 | 11.29 | 32.71 | 5.79 | | 24.96 | 301.3 | .062 |
| 30 | 11.12 | 32.906 | 5.35 | | 30 | 11.13 | 32.91 | 5.35 | | 25.15 | 283.4 | .091 |
| 50 | 10.38 | 33.107 | 4.95 | | 50 | 10.38 | 33.11 | 4.95 | | 25.44 | 256.5 | .145 |
| 75 | 9.03 | 33.641 | 4.07 | | 75 | 9.03 | 33.65 | 4.07 | | 26.08 | 196.1 | .202 |
| 103 | 8.17 | 33.849 | 3.24 | | 100 | 8.23 | 33.84 | 3.32 | | 26.35 | 170.3 | .247 |
| 156 | 7.93 | 34.005 | 2.34 | | 150 | 7.96 | 34.00 | 2.41 | | 26.52 | 155.3 | .329 |
| 206 | 7.54 | 34.047 | 2.03 | | 200 | 7.60 | 34.04 | 2.04 | | 26.61 | 147.7 | .405 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 45 | 44 39.1 N | 125 7.0 W | DATE 16 OCT 62 1445 GCT | | WIRE 18 | DRY 54.5 | WET 53.5 | | | | | |
| WIND DIRECTION 02 VEL 13 KTS | | BAR 30 SWELL DIRECTION 28 H | 6 T 16 CLOUD 3 AMT 1 WEATHER 02 | | | | | | | | | |
| 0 | 12.19 | 32.595 | 6.05 | | 0 | 12.19 | 32.60 | 6.06 | | 24.72 | 324.5 | 0 |
| 10 | 12.02 | 32.587 | 5.93 | | 10 | 12.02 | 32.59 | 5.94 | | 24.74 | 322.2 | .032 |
| 20 | 11.40 | 32.684 | 5.86 | | 20 | 11.40 | 32.69 | 5.86 | | 24.93 | 304.4 | .064 |
| 30 | 11.36 | 32.698 | | | 30 | 11.36 | 32.70 | 5.71 | | 24.95 | 302.8 | .094 |
| 50 | 10.84 | 32.927 | 5.31 | | 50 | 10.84 | 32.93 | 5.32 | | 25.22 | 277.5 | .152 |
| 76 | 9.50 | 33.355 | 4.81 | | 75 | 9.56 | 33.34 | 4.83 | | 25.75 | 227.0 | .215 |
| 100 | 8.27 | 33.679 | 3.88 | | 100 | 8.27 | 33.68 | 3.89 | | 26.23 | 182.4 | .266 |
| 146 | 7.92 | 33.867 | 3.36 | | 150 | 7.89 | 33.88 | 3.28 | | 26.44 | 163.0 | .353 |
| 194 | 7.53 | 34.011 | 2.41 | | 200 | 7.50 | 34.02 | 2.31 | | 26.60 | 148.0 | .430 |
| 288 | 6.97 | 34.061 | | | 250 | 7.21 | 34.04 | 1.58 | | 26.66 | 143.2 | .503 |
| 387 | 5.92 | 34.035 | | | 300 | 6.85 | 34.06 | 2.01 | | 26.72 | 137.8 | .573 |
| 486 | 5.07 | 34.053 | 1.31 | | 400 | 5.80 | 34.04 | 1.63 | | 26.84 | 127.3 | .706 |
| | | | | | 500 | 4.95 | 34.06 | 1.46 | | 26.96 | 116.1 | .827 |
| NH 65 | 44 39.1 N | 125 35.0 W | DATE 16 OCT 62 1818 GCT | | WIRE 15 | DRY 54.8 | WET 53.0 | | | | | |
| WIND DIRECTION 02 VEL 14 KTS | | BAR 31 SWELL DIRECTION 30 H | 8 T 15 CLOUD 3 AMT 1 WEATHER 02 | | | | | | | | | |
| 0 | 12.62 | 32.341 | 6.17 | | 0 | 12.63 | 32.35 | 6.18 | | 24.44 | 351.0 | 0 |
| 10 | 12.59 | 32.321 | 6.16 | | 10 | 12.59 | 32.33 | 6.17 | | 24.43 | 352.1 | .035 |
| 20 | 12.55 | 32.315 | 6.17 | | 20 | 12.55 | 32.32 | 6.18 | | 24.43 | 352.0 | .070 |
| 29 | 12.54 | 32.311 | 6.14 | | 30 | 12.45 | 32.32 | 6.14 | | 24.45 | 350.3 | .105 |
| 48 | 10.39 | 32.605 | 5.94 | | 50 | 10.25 | 32.65 | 5.87 | | 25.11 | 288.1 | .169 |
| 100 | 8.39 | 33.756 | 3.85 | | 75 | 8.91 | 33.24 | 4.92 | | 25.78 | 224.7 | .233 |
| 147 | 7.74 | 33.904 | 3.03 | | 100 | 8.39 | 33.76 | 3.85 | | 26.27 | 178.4 | .284 |
| 195 | 7.09 | 33.997 | 2.45 | | 150 | 7.70 | 33.91 | 2.99 | | 26.49 | 158.1 | .368 |
| 293 | 5.93 | 34.001 | 2.09 | | 200 | 7.02 | 33.99 | 2.42 | | 26.65 | 143.7 | .443 |
| 391 | 5.50 | 34.065 | 1.29 | | 250 | 6.38 | 33.99 | 2.21 | | 26.74 | 135.6 | .513 |
| 491 | 4.93 | 34.094 | .90 | | 300 | 5.89 | 34.01 | 2.03 | | 26.81 | 129.3 | .579 |
| 590 | 4.45 | 34.185 | .79 | | 400 | 5.45 | 34.07 | 1.24 | | 26.91 | 120.7 | .704 |
| 786 | 4.12 | 34.308 | .33 | | 500 | 4.88 | 34.10 | .89 | | 27.00 | 111.8 | .821 |
| 984 | 3.58 | 34.408 | .39 | | 600 | 4.43 | 34.19 | .76 | | 27.13 | 101.2 | .927 |
| 1178 | 3.15 | 34.479 | .54 | | 700 | 4.23 | 34.26 | .52 | | 27.20 | 94.5 | 1.025 |
| | | | | | 800 | 4.08 | 34.32 | .33 | | 27.26 | 89.4 | 1.117 |
| | | | | | 1000 | 3.54 | 34.41 | .40 | | 27.39 | 77.5 | 1.284 |
| | | | | | 1200 | 3.10 | 34.49 | .56 | | 27.49 | 68.2 | 1.429 |
| NH 85 | 44 39.1 N | 126 3.5 W | DATE 16 OCT 62 2130 GCT | | WIRE 12 | DRY 56.0 | WET 53.5 | | | | | |
| WIND DIRECTION 01 VEL 16 KTS | | BAR 30 SWELL DIRECTION 31 H | 5 T 11 CLOUD 3 AMT 1 WEATHER 02 | | | | | | | | | |
| 0 | 12.86 | 32.256 | 6.22 | | 0 | 12.86 | 32.26 | 6.22 | | 24.33 | 361.6 | 0 |
| 10 | 12.81 | 32.259 | 6.17 | | 10 | 12.81 | 32.26 | 6.18 | | 24.34 | 360.7 | .036 |
| 20 | 12.76 | 32.286 | 6.20 | | 20 | 12.76 | 32.29 | 6.20 | | 24.37 | 358.0 | .072 |
| 30 | 12.52 | 32.303 | 5.52 | | 30 | 12.52 | 32.31 | 5.53 | | 24.43 | 352.5 | .108 |
| 50 | 8.42 | 32.875 | 5.23 | | 50 | 8.42 | 32.88 | 5.23 | | 25.57 | 243.5 | .167 |
| 77 | 8.05 | 33.287 | 4.39 | | 75 | 8.08 | 33.27 | 4.46 | | 25.93 | 210.3 | .224 |
| 104 | 7.96 | 33.597 | 3.74 | | 100 | 7.97 | 33.56 | 3.82 | | 26.17 | 187.4 | .274 |
| 152 | 7.54 | 33.874 | 3.04 | | 150 | 7.56 | 33.87 | 3.06 | | 26.47 | 159.4 | .360 |
| 202 | 6.70 | 33.944 | 2.94 | | 200 | 6.74 | 33.94 | 2.94 | | 26.65 | 143.3 | .436 |
| 301 | 5.80 | 33.986 | 2.03 | | 250 | 6.17 | 33.97 | 2.56 | | 26.74 | 134.9 | .505 |
| 398 | 5.35 | 34.085 | 1.07 | | 300 | 5.81 | 33.99 | 2.04 | | 26.80 | 129.7 | .572 |
| 497 | 5.00 | 34.182 | .63 | | 400 | 5.34 | 34.09 | 1.06 | | 26.94 | 117.9 | .695 |
| 594 | 4.49 | 34.245 | .46 | | 500 | 4.98 | 34.19 | .62 | | 27.07 | 106.2 | .807 |
| 789 | 4.09 | 34.343 | .30 | | 600 | 4.47 | 34.25 | .45 | | 27.17 | 97.7 | .909 |
| 984 | 3.51 | 34.431 | .39 | | 700 | 4.23 | 34.30 | .34 | | 27.23 | 91.6 | 1.004 |
| | | | | | 800 | 4.06 | 34.35 | .31 | | 27.29 | 86.8 | 1.093 |
| | | | | | 1000 | 3.46 | 34.44 | .40 | | 27.42 | 74.9 | 1.255 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH 105 44 39.1 N 126 30.9 W DATE 17 OCT 62 0050 GCT WIRE 5 DRY 56.5 WET 54.5
WIND DIRECTION 02 VEL 20 KTS BAR 29 SWELL DIRECTION 30 H 7 T 13 CLOUD 3 AMT 3 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 14.00 | 32.339 | 6.09 | 0 | 14.00 | 32.34 | 6.09 | 24.16 | 377.3 | 0 |
| 10 | 13.99 | 32.329 | 6.10 | 10 | 13.99 | 32.33 | 6.10 | 24.16 | 378.0 | .038 |
| 20 | 13.90 | 32.333 | 6.09 | 20 | 13.90 | 32.34 | 6.09 | 24.18 | 376.2 | .075 |
| 29 | 13.88 | 32.318 | 6.09 | 30 | 13.68 | 32.33 | 6.11 | 24.22 | 372.8 | .113 |
| 48 | 9.20 | 32.639 | 6.36 | 50 | 9.00 | 32.68 | 6.30 | 25.33 | 267.0 | .177 |
| 100 | 8.16 | 33.471 | 4.11 | 75 | 8.66 | 33.11 | 5.39 | 25.72 | 230.2 | .239 |
| 147 | 7.47 | 33.735 | 3.10 | 100 | 8.16 | 33.48 | 4.11 | 26.08 | 196.3 | .292 |
| 195 | 6.98 | 33.911 | 2.61 | 150 | 7.44 | 33.75 | 3.06 | 26.40 | 166.5 | .383 |
| 293 | 5.91 | 33.944 | 1.88 | 200 | 6.92 | 33.92 | 2.57 | 26.60 | 147.7 | .462 |
| 391 | 5.37 | 33.986 | 1.23 | 250 | 6.35 | 33.93 | 2.17 | 26.69 | 140.1 | .533 |
| 491 | 4.96 | 34.045 | .79 | 300 | 5.86 | 33.95 | 1.83 | 26.77 | 133.3 | .602 |
| 590 | 4.59 | 34.118 | .50 | 400 | 5.33 | 33.99 | 1.18 | 26.86 | 125.0 | .731 |
| 787 | 4.07 | 34.230 | .31 | 500 | 4.92 | 34.05 | .76 | 26.96 | 116.0 | .851 |
| 984 | 3.63 | 34.306 | .31 | 600 | 4.56 | 34.12 | .48 | 27.06 | 107.8 | .963 |
| 1179 | 3.19 | 34.405 | .52 | 700 | 4.28 | 34.19 | .35 | 27.14 | 100.6 | 1.067 |
| | | | | 800 | 4.04 | 34.24 | .31 | 27.20 | 94.9 | 1.165 |
| | | | | 1000 | 3.59 | 34.31 | .32 | 27.31 | 85.6 | 1.346 |
| | | | | 1200 | 3.14 | 34.42 | .54 | 27.43 | 73.9 | 1.505 |

AH 105 46 14.8 N 126 37.4 W DATE 17 OCT 62 1512 GCT WIRE 4 DRY 55.2 WET 54.0
WIND DIRECTION 02 VEL 9 KTS BAR 27 SWELL DIRECTION 29 H 8 T 12 CLOUD 9 AMT 9 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.74 | 32.296 | 6.32 | 0 | 12.74 | 32.30 | 6.32 | 24.38 | 356.5 | 0 |
| 10 | 12.72 | 32.305 | 6.19 | 10 | 12.72 | 32.31 | 6.19 | 24.39 | 355.6 | .036 |
| 20 | 12.68 | 32.310 | 6.09 | 20 | 12.68 | 32.31 | 6.09 | 24.40 | 354.7 | .071 |
| 30 | 12.66 | 32.302 | 6.02 | 30 | 12.66 | 32.31 | 6.03 | 24.40 | 355.2 | .107 |
| 49 | 10.15 | 32.629 | 5.42 | 50 | 10.07 | 32.65 | 5.38 | 25.13 | 285.6 | .171 |
| 102 | 8.02 | 33.548 | 3.71 | 75 | 8.56 | 33.12 | 4.52 | 25.74 | 228.2 | .235 |
| 151 | 7.44 | 33.845 | 3.09 | 100 | 8.02 | 33.52 | 3.77 | 26.13 | 191.0 | .287 |
| 201 | 6.96 | 33.951 | 2.65 | 150 | 7.44 | 33.84 | 3.10 | 26.47 | 159.7 | .375 |
| 303 | 6.06 | 34.011 | 2.15 | 200 | 6.97 | 33.95 | 2.66 | 26.62 | 146.0 | .451 |
| 404 | 5.45 | 34.059 | 1.16 | 250 | 6.50 | 33.99 | 2.41 | 26.72 | 137.3 | .522 |
| 505 | 5.01 | 34.135 | .70 | 300 | 6.08 | 34.01 | 2.16 | 26.79 | 131.4 | .589 |
| 606 | 4.72 | 34.203 | .47 | 400 | 5.47 | 34.06 | 1.20 | 26.90 | 121.7 | .716 |
| 808 | 4.03 | 34.336 | .28 | 500 | 5.03 | 34.13 | .71 | 27.01 | 111.4 | .832 |
| 1011 | 3.48 | 34.407 | .35 | 600 | 4.74 | 34.20 | .48 | 27.10 | 104.4 | .940 |
| 1208 | 3.00 | 34.486 | .43 | 700 | 4.40 | 34.27 | .34 | 27.19 | 95.9 | 1.040 |
| | | | | 800 | 4.06 | 34.33 | .28 | 27.28 | 88.0 | 1.132 |
| | | | | 1000 | 3.51 | 34.40 | .34 | 27.39 | 77.9 | 1.298 |
| | | | | 1200 | 3.02 | 34.48 | .43 | 27.50 | 67.6 | 1.443 |

AH 85 46 14.4 N 126 8.9 W DATE 17 OCT 62 2007 GCT WIRE 14 DRY 56.5 WET 55.0
WIND DIRECTION 31 VEL 3 KTS BAR 26 SWELL DIRECTION 30 H 4 T 7 CLOUD 8 AMT 3 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.74 | 32.359 | 6.08 | 0 | 12.74 | 32.36 | 6.08 | 24.43 | 351.8 | 0 |
| 10 | 12.67 | 32.354 | 6.02 | 10 | 12.67 | 32.36 | 6.03 | 24.44 | 351.1 | .035 |
| 20 | 12.64 | 32.355 | 6.00 | 20 | 12.64 | 32.36 | 6.01 | 24.45 | 350.7 | .070 |
| 29 | 12.59 | 32.379 | 5.97 | 30 | 12.58 | 32.38 | 5.96 | 24.48 | 348.1 | .105 |
| 48 | 11.75 | 32.423 | 5.80 | 50 | 11.47 | 32.47 | 5.71 | 24.75 | 322.2 | .172 |
| 75 | 8.14 | 33.178 | 4.41 | 75 | 8.14 | 33.18 | 4.41 | 25.85 | 217.4 | .240 |
| 101 | 7.91 | 33.601 | 3.51 | 100 | 7.92 | 33.59 | 3.54 | 26.20 | 184.4 | .290 |
| 148 | 7.39 | 33.898 | 2.84 | 150 | 7.37 | 33.90 | 2.82 | 26.53 | 154.2 | .374 |
| 199 | 6.99 | 33.950 | 2.38 | 200 | 6.98 | 33.95 | 2.37 | 26.62 | 146.1 | .449 |
| 297 | 6.13 | 34.019 | 1.63 | 250 | 6.53 | 33.99 | 1.97 | 26.71 | 138.1 | .520 |
| 395 | 5.52 | 34.093 | 1.03 | 300 | 6.11 | 34.02 | 1.61 | 26.79 | 130.9 | .588 |
| 495 | 4.95 | 34.152 | .70 | 400 | 5.49 | 34.10 | 1.01 | 26.93 | 119.0 | .713 |
| 596 | 4.60 | 34.193 | .50 | 500 | 4.93 | 34.15 | .69 | 27.04 | 108.5 | .826 |
| 797 | 4.05 | 34.325 | .29 | 600 | 4.59 | 34.20 | .49 | 27.11 | 102.9 | .932 |
| 995 | 3.44 | 34.429 | .34 | 700 | 4.31 | 34.26 | .36 | 27.19 | 95.6 | 1.031 |
| | | | | 800 | 4.04 | 34.33 | .29 | 27.27 | 88.1 | 1.123 |
| | | | | 1000 | 3.42 | 34.43 | .34 | 27.42 | 74.9 | 1.286 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 65 46 14.4 N 125 39.5 W DATE 17 OCT 62 2355 GCT WIRE 0 DRY 56.5 WET 54.5 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 9 KTS BAR 24 SWELL DIRECTION 30 H 4 T 7 CLOUD 4 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.72 | 32.390 | 6.18 | | 0 | 12.72 | 32.39 | 6.19 | | 24.46 | 349.2 | 0 |
| 10 | 12.65 | 32.393 | 6.13 | | 10 | 12.65 | 32.40 | 6.14 | | 24.47 | 347.9 | .035 |
| 20 | 12.51 | 32.419 | 6.08 | | 20 | 12.51 | 32.42 | 6.08 | | 24.52 | 343.6 | .069 |
| 30 | 12.41 | 32.396 | 6.02 | | 30 | 12.41 | 32.40 | 6.03 | | 24.52 | 343.7 | .104 |
| 50 | 10.50 | 32.562 | 6.17 | | 50 | 10.50 | 32.57 | 6.18 | | 25.00 | 298.8 | .168 |
| 78 | 8.00 | 32.875 | 5.62 | | 75 | 8.20 | 32.83 | 5.74 | | 25.57 | 244.4 | .236 |
| 105 | 7.96 | 33.510 | 3.68 | | 100 | 7.97 | 33.39 | 4.05 | | 26.04 | 199.7 | .291 |
| 155 | 7.37 | 33.871 | 2.69 | | 150 | 7.44 | 33.86 | 2.70 | | 26.49 | 158.0 | .381 |
| 207 | 6.83 | 33.971 | 2.26 | | 200 | 6.90 | 33.97 | 2.30 | | 26.65 | 143.7 | .456 |
| 310 | 6.08 | 34.017 | 1.58 | | 250 | 6.48 | 34.00 | 1.95 | | 26.73 | 136.4 | .526 |
| 411 | 5.54 | 34.067 | 1.10 | | 300 | 6.14 | 34.02 | 1.64 | | 26.79 | 131.6 | .593 |
| 515 | 5.09 | 34.126 | .76 | | 400 | 5.59 | 34.06 | 1.14 | | 26.89 | 122.9 | .720 |
| 617 | 4.69 | 34.192 | .47 | | 500 | 5.15 | 34.12 | .80 | | 26.99 | 113.9 | .839 |
| 820 | 4.12 | 34.330 | .31 | | 600 | 4.75 | 34.18 | .51 | | 27.08 | 106.0 | .949 |
| 1019 | 3.62 | 34.406 | .36 | | 700 | 4.44 | 34.25 | .36 | | 27.17 | 97.6 | 1.050 |
| | | | | | 800 | 4.17 | 34.32 | .33 | | 27.25 | 90.3 | 1.144 |
| | | | | | 1000 | 3.67 | 34.40 | .35 | | 27.37 | 80.0 | 1.314 |
| AH 45 46 14.4 N 125 10.6 W DATE 18 OCT 62 0315 GCT WIRE - DRY 54.5 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 9 KTS BAR 23 SWELL DIRECTION 28 H 4 T 8 CLOUD 0 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.90 | 32.374 | 6.11 | | 0 | 11.90 | 32.38 | 6.11 | | 24.60 | 335.6 | 0 |
| 10 | 11.88 | 32.337 | 6.02 | | 10 | 11.88 | 32.34 | 6.03 | | 24.58 | 338.1 | .034 |
| 20 | 11.72 | 32.341 | 5.98 | | 20 | 11.72 | 32.35 | 5.98 | | 24.61 | 335.2 | .067 |
| 30 | 11.38 | 32.317 | 5.82 | | 30 | 11.38 | 32.32 | 5.82 | | 24.65 | 331.3 | .101 |
| 49 | 9.86 | 32.693 | 5.06 | | 50 | 9.80 | 32.72 | 5.02 | | 25.23 | 276.5 | .161 |
| 102 | 7.84 | 33.672 | 3.31 | | 75 | 8.58 | 33.23 | 4.11 | | 25.82 | 220.4 | .224 |
| 151 | 7.24 | 33.912 | 2.44 | | 100 | 7.87 | 33.64 | 3.36 | | 26.25 | 179.7 | .274 |
| 201 | 6.76 | 33.972 | 1.94 | | 150 | 7.25 | 33.91 | 2.45 | | 26.55 | 151.8 | .356 |
| 302 | 6.12 | 34.007 | 1.75 | | 200 | 6.77 | 33.97 | 1.95 | | 26.67 | 141.7 | .430 |
| 403 | 5.63 | 34.077 | 1.13 | | 250 | 6.41 | 33.99 | 1.81 | | 26.73 | 136.1 | .499 |
| 506 | 5.06 | 34.103 | .80 | | 300 | 6.13 | 34.01 | 1.75 | | 26.78 | 132.3 | .566 |
| 607 | 4.45 | 34.177 | .46 | | 400 | 5.64 | 34.07 | 1.15 | | 26.89 | 122.5 | .694 |
| 810 | 3.97 | 34.309 | .30 | | 500 | 5.09 | 34.10 | .82 | | 26.98 | 114.4 | .812 |
| 1012 | 3.51 | 34.405 | .32 | | 600 | 4.49 | 34.17 | .48 | | 27.10 | 103.6 | .921 |
| 1211 | 2.96 | 34.473 | .54 | | 700 | 4.17 | 34.24 | .33 | | 27.19 | 95.2 | 1.020 |
| | | | | | 800 | 3.98 | 34.30 | .31 | | 27.26 | 89.2 | 1.112 |
| | | | | | 1000 | 3.54 | 34.40 | .31 | | 27.38 | 78.6 | 1.280 |
| | | | | | 1200 | 2.99 | 34.47 | .52 | | 27.49 | 68.2 | 1.427 |
| AH 35 46 14.4 N 124 6.3 W DATE 18 OCT 62 0555 GCT WIRE 5 DRY 55.7 WET 53.9 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 9 KTS BAR 23 SWELL DIRECTION 28 H 4 T 8 CLOUD 0 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.84 | 32.400 | 6.04 | | 0 | 12.84 | 32.40 | 6.05 | | 24.44 | 350.7 | 0 |
| 10 | 12.83 | 32.398 | 5.97 | | 10 | 12.83 | 32.40 | 5.97 | | 24.44 | 350.8 | .035 |
| 20 | 12.67 | 32.423 | 5.76 | | 20 | 12.67 | 32.43 | 5.77 | | 24.49 | 346.2 | .070 |
| 30 | 12.31 | 32.379 | 5.86 | | 30 | 12.31 | 32.38 | 5.86 | | 24.53 | 343.1 | .104 |
| 50 | 8.78 | 32.991 | 4.70 | | 50 | 8.78 | 33.00 | 4.70 | | 25.61 | 240.2 | .163 |
| 75 | 8.06 | 33.441 | 3.83 | | 75 | 8.06 | 33.45 | 3.84 | | 26.07 | 196.7 | .217 |
| 102 | 7.86 | 33.704 | 3.27 | | 100 | 7.87 | 33.69 | 3.30 | | 26.29 | 176.1 | .264 |
| 153 | 7.34 | 33.913 | 2.58 | | 150 | 7.37 | 33.91 | 2.61 | | 26.53 | 153.8 | .346 |
| 204 | 6.89 | 33.953 | 2.29 | | 200 | 6.92 | 33.95 | 2.30 | | 26.63 | 145.4 | .421 |
| 305 | 6.23 | 34.005 | 1.83 | | 250 | 6.57 | 33.98 | 2.09 | | 26.70 | 139.3 | .492 |
| 408 | 5.53 | 34.065 | 1.08 | | 300 | 6.26 | 34.00 | 1.85 | | 26.76 | 134.2 | .561 |
| 510 | 5.13 | 34.144 | .70 | | 400 | 5.58 | 34.06 | 1.14 | | 26.89 | 122.9 | .689 |
| 610 | 4.78 | 34.198 | .47 | | 500 | 5.16 | 34.14 | .73 | | 27.00 | 112.6 | .807 |
| | | | | | 600 | 4.81 | 34.19 | .49 | | 27.08 | 105.7 | .916 |
| AH 25 46 14.7 N 124 41.1 W DATE 18 OCT 62 0750 GCT WIRE 2 DRY 55.2 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 7 KTS BAR 21 SWELL DIRECTION 30 H 4 T 8 CLOUD 4 AMT 1 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.84 | 31.511 | 6.04 | | 0 | 12.84 | 31.52 | 6.05 | | 23.76 | 416.1 | 0 |
| 10 | 12.76 | 32.353 | 5.99 | | 10 | 12.76 | 32.36 | 5.99 | | 24.42 | 352.9 | .038 |
| 20 | 12.17 | 32.367 | 5.95 | | 20 | 12.17 | 32.37 | 5.95 | | 24.54 | 341.3 | .073 |
| 30 | 11.52 | 32.442 | 5.78 | | 30 | 11.52 | 32.45 | 5.79 | | 24.72 | 324.5 | .106 |
| 50 | 9.44 | 32.886 | 5.06 | | 50 | 9.44 | 32.89 | 5.06 | | 25.42 | 257.9 | .165 |
| 76 | 8.10 | 33.379 | 4.18 | | 75 | 8.13 | 33.36 | 4.21 | | 26.00 | 203.7 | .222 |
| 105 | 7.86 | 33.649 | 3.53 | | 100 | 7.90 | 33.62 | 3.63 | | 26.23 | 182.1 | .271 |
| 157 | 7.39 | 33.900 | 2.58 | | 150 | 7.45 | 33.88 | 2.69 | | 26.50 | 157.0 | .355 |
| 210 | 7.03 | 33.971 | 2.04 | | 200 | 7.09 | 33.96 | 2.11 | | 26.61 | 147.0 | .431 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 15 46 14.5 N 124 27.3 W DATE 18 OCT 62 1047 GCT WIRE - DRY 57.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 9 KTS BAR 20 SWELL DIRECTION 30 H 3 T 8 CLOUD 4 AMT 5 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.64 | 26.820 | 6.15 | | 0 | 12.64 | 26.82 | 6.16 | | 20.18 | 758.8 | 0 |
| 10 | 13.06 | 31.106 | 6.04 | | 10 | 13.04 | 31.11 | 6.05 | | 23.40 | 450.2 | .060 |
| 20 | 12.82 | 32.380 | 5.83 | | 20 | 12.82 | 32.38 | 5.83 | | 24.43 | 352.2 | .101 |
| 30 | 12.68 | 32.381 | 5.86 | | 30 | 12.68 | 32.39 | 5.86 | | 24.46 | 349.7 | .136 |
| 49 | 11.41 | 32.521 | 5.54 | | 50 | 11.27 | 32.55 | 5.48 | | 24.85 | 312.7 | .202 |
| 74 | 8.24 | 33.364 | 3.85 | | 75 | 8.20 | 33.38 | 3.81 | | 26.00 | 203.4 | .266 |
| 103 | 7.83 | 33.627 | 3.17 | | 100 | 7.87 | 33.62 | 3.20 | | 26.24 | 181.4 | .314 |
| 154 | 7.48 | 33.848 | 2.39 | | 150 | 7.50 | 33.84 | 2.43 | | 26.46 | 160.8 | .400 |
| 206 | 6.97 | 33.958 | 2.06 | | 200 | 7.04 | 33.95 | 2.07 | | 26.61 | 146.8 | .477 |
| AH 5 46 14.4 N 124 13.8 W DATE 18 OCT 62 1235 GCT WIRE 1 DRY 56.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION VEL C KTS BAR 19 SWELL DIRECTION 30 H 3 T 8 CLOUD 4 AMT 7 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.84 | 23.900 | 6.07 | | 0 | 12.84 | 23.90 | 6.07 | | 17.89 | 978.7 | 0 |
| 10 | 13.21 | 31.264 | 6.15 | | 10 | 13.21 | 31.27 | 6.16 | | 23.49 | 441.3 | .071 |
| 20 | 12.97 | 31.598 | 6.07 | | 20 | 12.97 | 31.60 | 6.07 | | 23.80 | 412.5 | .114 |
| 30 | 12.86 | 32.141 | 5.75 | | 30 | 12.86 | 32.15 | 5.76 | | 24.24 | 370.7 | .153 |
| 40 | 12.86 | 32.250 | 5.76 | | 50 | 12.84 | 32.35 | 5.68 | | 24.40 | 355.7 | .225 |
| 50 | 12.84 | 32.345 | 5.67 | | | | | | | | | |
| BH 5 42 0.0 N 124 19.5 W DATE 23 OCT 62 1000 GCT WIRE - DRY 50.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 4 KTS BAR 17 SWELL DIRECTION 14 H 1 T 7 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 11.05 | 32.999 | 5.36 | 1.56 | 0 | 11.05 | 33.00 | 5.36 | 1.57 | 25.24 | 274.8 | 0 |
| 10 | 10.79 | 33.251 | 5.03 | 1.48 | 10 | 10.79 | 33.26 | 5.04 | 1.49 | 25.48 | 252.0 | .026 |
| 20 | 10.57 | 33.323 | 4.83 | 1.76 | 20 | 10.57 | 33.33 | 4.83 | 1.77 | 25.58 | 243.2 | .051 |
| 30 | 10.52 | 33.336 | 4.70 | 1.63 | 30 | 10.52 | 33.34 | 4.70 | 1.64 | 25.59 | 241.5 | .075 |
| BH 15 42 0.0 N 124 33.0 W DATE 23 OCT 62 1545 GCT WIRE - DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 7 KTS BAR 19 SWELL DIRECTION 35 H 4 T 7 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 11.53 | 33.047 | | 1.11 | 0 | 11.53 | 33.05 | | 1.11 | 25.19 | 279.5 | 0 |
| 10 | 11.35 | 33.132 | | 1.13 | 10 | 11.35 | 33.14 | | 1.14 | 25.29 | 270.3 | .027 |
| 20 | 11.21 | 33.191 | | 1.27 | 20 | 11.21 | 33.20 | | 1.27 | 25.36 | 263.7 | .054 |
| 30 | 11.01 | 33.187 | | 1.24 | 30 | 11.01 | 33.19 | | 1.24 | 25.39 | 260.8 | .080 |
| 52 | 10.12 | 33.465 | | 1.82 | 50 | 10.21 | 33.43 | | 1.76 | 25.72 | 230.0 | .129 |
| 78 | 9.07 | 33.720 | | 1.81 | 75 | 9.17 | 33.70 | | 1.82 | 26.10 | 194.5 | .183 |
| 105 | 8.77 | 33.822 | | 2.34 | 100 | 8.83 | 33.82 | | 2.20 | 26.24 | 180.8 | .229 |
| BH 25 42 0.0 N 124 46.3 W DATE 23 OCT 62 1800 GCT WIRE 1 DRY 53.2 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 9 KTS BAR 19 SWELL DIRECTION 32 H 4 T 8 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 11.93 | 32.898 | 6.07 | 1.08 | 0 | 11.93 | 32.90 | 6.07 | 1.08 | 25.00 | 297.5 | 0 |
| 10 | 11.91 | 32.895 | 5.98 | .98 | 10 | 11.91 | 32.90 | 5.98 | .99 | 25.00 | 297.5 | .030 |
| 19 | 11.85 | 32.920 | 5.91 | 1.03 | 20 | 11.84 | 32.93 | 5.92 | 1.04 | 25.03 | 294.6 | .059 |
| 29 | 11.76 | 32.999 | 5.92 | 1.12 | 30 | 11.67 | 33.01 | 5.88 | 1.13 | 25.14 | 285.2 | .088 |
| 48 | 9.75 | 33.322 | 4.88 | 1.48 | 50 | 9.65 | 33.35 | 4.80 | 1.53 | 25.75 | 227.0 | .140 |
| 73 | 9.05 | 33.617 | 4.03 | 2.07 | 75 | 9.02 | 33.64 | 3.95 | 2.09 | 26.07 | 196.6 | .192 |
| 98 | 8.73 | 33.800 | 3.06 | 2.22 | 100 | 8.71 | 33.81 | 3.02 | 2.24 | 26.26 | 179.5 | .239 |
| 144 | 8.27 | 33.919 | 2.48 | 2.46 | 150 | 8.23 | 33.93 | 2.41 | 2.42 | 26.43 | 164.1 | .325 |
| 189 | 7.99 | 34.005 | 2.03 | 2.10 | 200 | 7.91 | 34.01 | 1.98 | 2.12 | 26.54 | 154.3 | .405 |
| 276 | 7.32 | 34.036 | 1.77 | 2.52 | 250 | 7.52 | 34.04 | 1.81 | 2.32 | 26.61 | 148.0 | .481 |
| 368 | 6.70 | 34.082 | 1.43 | 2.83 | 300 | 7.16 | 34.05 | 1.69 | 2.61 | 26.67 | 142.8 | .553 |
| 454 | 6.04 | 34.111 | 1.01 | 3.05 | 400 | 6.46 | 34.09 | 1.27 | 2.92 | 26.80 | 131.7 | .690 |
| 529 | 5.47 | 34.146 | .74 | | 500 | 5.69 | 34.13 | .83 | | 26.93 | 119.5 | .816 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| BH 35 42 0.0 N 124 59.7 W DATE 23 OCT 62 2140 GCT WIRE 5 DRY 55.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 12 KTS BAR 20 SWELL DIRECTION 32 H 3 T 7 CLOUD 0 AMT 10 WEATHER 20 | | | | | | | | | | | | |
| 0 | 12.12 | 32.879 | 6.07 | .86 | 0 | 12.13 | 32.88 | 6.07 | .87 | 24.95 | 302.3 | 0 |
| 10 | 12.09 | 32.877 | 5.92 | .98 | 10 | 12.09 | 32.88 | 5.93 | .99 | 24.95 | 302.1 | .030 |
| 20 | 12.06 | 32.896 | 5.84 | .88 | 20 | 12.06 | 32.90 | 5.84 | .89 | 24.97 | 300.3 | .060 |
| 30 | 12.06 | 32.878 | 5.74 | 1.13 | 30 | 12.06 | 32.88 | 5.74 | 1.14 | 24.96 | 301.9 | .090 |
| 49 | 9.64 | 33.554 | 3.96 | 1.68 | 50 | 9.59 | 33.57 | 3.92 | 1.70 | 25.93 | 209.8 | .142 |
| 75 | 9.05 | 33.752 | 3.50 | 2.12 | 75 | 9.05 | 33.76 | 3.51 | 2.13 | 26.14 | 188.2 | .191 |
| 101 | 8.72 | 33.888 | 2.63 | 2.33 | 100 | 8.73 | 33.88 | 2.66 | 2.33 | 26.31 | 174.3 | .237 |
| 152 | 8.32 | 33.970 | 2.19 | 2.31 | 150 | 8.33 | 33.97 | 2.21 | 2.32 | 26.44 | 162.9 | .321 |
| 205 | 8.11 | 33.996 | 2.10 | 2.42 | 200 | 8.13 | 33.99 | 2.10 | 2.41 | 26.49 | 158.9 | .401 |
| 307 | 7.14 | 34.044 | 1.93 | 2.62 | 250 | 7.71 | 34.02 | 2.06 | 2.51 | 26.57 | 152.1 | .479 |
| 407 | 6.47 | 34.112 | 1.17 | 2.81 | 300 | 7.21 | 34.04 | 1.95 | 2.61 | 26.66 | 144.2 | .553 |
| 510 | 5.94 | 34.139 | .88 | 2.98 | 400 | 6.51 | 34.11 | 1.23 | 2.80 | 26.81 | 131.3 | .691 |
| 611 | 5.12 | 34.228 | .49 | 3.16 | 500 | 5.99 | 34.14 | .90 | 2.96 | 26.90 | 123.1 | .818 |
| 813 | 4.18 | 34.255 | .43 | 3.23 | 600 | 5.21 | 34.22 | .53 | 3.14 | 27.06 | 108.8 | .934 |
| 1014 | 3.48 | 34.431 | .44 | 3.28 | 700 | 4.63 | 34.24 | .46 | 3.22 | 27.14 | 100.6 | 1.038 |
| | | | | | 800 | 4.22 | 34.25 | .43 | 3.23 | 27.20 | 95.6 | 1.136 |
| | | | | | 1000 | 3.52 | 34.41 | .44 | 3.28 | 27.40 | 77.3 | 1.309 |
| BH 45 42 0.3 N 125 13.2 W DATE 23 OCT 62 2310 GCT WIRE 0 DRY 54.9 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR 19 SWELL DIRECTION 32 H 3 T 7 CLOUD 0 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 12.11 | 32.861 | 6.15 | .74 | 0 | 12.11 | 32.86 | 6.16 | .75 | 24.93 | 304.2 | 0 |
| 10 | 12.10 | 32.849 | 6.08 | .75 | 10 | 12.10 | 32.85 | 6.08 | .76 | 24.93 | 304.3 | .030 |
| 20 | 12.06 | 32.842 | 6.06 | .81 | 20 | 12.06 | 32.85 | 6.07 | .82 | 24.93 | 304.3 | .061 |
| 30 | 12.06 | 32.841 | 6.03 | .90 | 30 | 12.06 | 32.85 | 6.04 | .90 | 24.93 | 304.6 | .091 |
| 50 | 10.36 | 33.318 | 5.10 | 1.40 | 50 | 10.36 | 33.32 | 5.10 | 1.40 | 25.61 | 240.6 | .146 |
| 75 | 8.94 | 33.814 | 3.29 | 2.24 | 75 | 8.94 | 33.82 | 3.29 | 2.24 | 26.23 | 181.9 | .199 |
| 101 | 8.68 | 33.904 | 2.53 | 2.41 | 100 | 8.69 | 33.90 | 2.54 | 2.40 | 26.33 | 172.5 | .243 |
| 152 | 8.46 | 33.986 | 2.19 | 2.42 | 150 | 8.47 | 33.98 | 2.20 | 2.42 | 26.43 | 163.8 | .327 |
| 202 | 8.10 | 34.010 | 1.97 | 2.50 | 200 | 8.12 | 34.01 | 1.98 | 2.50 | 26.51 | 157.6 | .407 |
| 301 | 7.31 | 34.084 | 1.53 | 2.87 | 250 | 7.74 | 34.05 | 1.75 | 2.67 | 26.59 | 150.3 | .484 |
| 399 | 6.30 | 34.128 | 1.14 | 3.05 | 300 | 7.32 | 34.08 | 1.53 | 2.87 | 26.68 | 142.5 | .557 |
| 499 | 5.75 | 34.145 | .81 | 2.95 | 400 | 6.29 | 34.13 | 1.14 | 3.05 | 26.85 | 126.9 | .692 |
| 599 | 5.22 | 34.192 | .57 | 3.27 | 500 | 5.74 | 34.15 | .81 | 2.95 | 26.94 | 119.2 | .815 |
| 798 | 4.27 | 34.319 | .31 | 3.48 | 600 | 5.21 | 34.19 | .57 | 3.27 | 27.04 | 110.7 | .930 |
| 997 | 3.69 | 34.386 | .30 | 3.27 | 700 | 4.71 | 34.26 | .40 | 3.44 | 27.15 | 100.4 | 1.035 |
| | | | | | 800 | 4.26 | 34.32 | .31 | 3.48 | 27.25 | 91.2 | 1.131 |
| | | | | | 1000 | 3.68 | 34.39 | .30 | 3.27 | 27.36 | 81.2 | 1.303 |
| BH 65 42 0.2 N 125 40.0 W DATE 25 OCT 62 1610 GCT WIRE 5 DRY 58.1 WET 54.9 | | | | | | | | | | | | |
| WIND DIRECTION VEL 0 KTS BAR 20 SWELL DIRECTION N H T CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.60 | 32.732 | 6.11 | .49 | 0 | 13.60 | 32.74 | 6.11 | .49 | 24.55 | 340.6 | 0 |
| 10 | 13.58 | 32.739 | 6.08 | .53 | 10 | 13.58 | 32.74 | 6.08 | .54 | 24.56 | 340.0 | .034 |
| 20 | 13.56 | 32.733 | 6.08 | .26 | 20 | 13.56 | 32.74 | 6.08 | .26 | 24.56 | 340.2 | .068 |
| 29 | 13.24 | 32.739 | 6.02 | .69 | 30 | 13.19 | 32.74 | 6.01 | .70 | 24.63 | 333.0 | .102 |
| 49 | 11.95 | 32.858 | 5.90 | .76 | 50 | 11.88 | 32.87 | 5.87 | .79 | 24.99 | 299.7 | .165 |
| 74 | 10.32 | 33.305 | 4.94 | 1.57 | 75 | 10.25 | 33.32 | 4.90 | 1.59 | 25.62 | 239.4 | .232 |
| 100 | 8.78 | 33.641 | 3.94 | 1.97 | 100 | 8.78 | 33.65 | 3.95 | 1.98 | 26.12 | 192.8 | .286 |
| 151 | 7.96 | 33.889 | 3.17 | 2.24 | 150 | 7.96 | 33.89 | 3.18 | 2.24 | 26.43 | 163.6 | .375 |
| 202 | 7.37 | 33.959 | 2.70 | 2.37 | 200 | 7.39 | 33.96 | 2.71 | 2.37 | 26.57 | 151.1 | .454 |
| 303 | 6.28 | 34.007 | 2.01 | 2.63 | 250 | 6.82 | 33.99 | 2.37 | 2.49 | 26.67 | 141.9 | .527 |
| 402 | 5.56 | 34.073 | 1.11 | 2.95 | 300 | 6.31 | 34.01 | 2.03 | 2.62 | 26.76 | 134.6 | .596 |
| 504 | 4.98 | 34.128 | .75 | 3.29 | 400 | 5.57 | 34.07 | 1.13 | 2.94 | 26.90 | 121.9 | .725 |
| 604 | 4.58 | 34.191 | .50 | 3.14 | 500 | 5.00 | 34.13 | .76 | 3.28 | 27.01 | 111.4 | .841 |
| 805 | 3.97 | 34.316 | .30 | 3.49 | 600 | 4.59 | 34.19 | .51 | 3.15 | 27.10 | 103.5 | .949 |
| 1006 | 3.56 | 34.445 | .39 | 3.23 | 700 | 4.26 | 34.25 | .36 | 3.29 | 27.19 | 95.6 | 1.048 |
| | | | | | 800 | 3.98 | 34.31 | .30 | 3.48 | 27.27 | 88.5 | 1.140 |
| | | | | | 1000 | 3.57 | 34.44 | .38 | 3.25 | 27.41 | 75.9 | 1.304 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| BH 85 42 0.0 N 126 6.5 W DATE 25 OCT 62 1235 GCT WIRE - DRY 58.2 WET 54.7 | | | | | | | | | | | | |
| WIND DIRECTION VEL 6 KTS BAR 20 SWELL DIRECTION N H T CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.68 | 32.862 | 6.05 | .67 | 0 | 13.68 | 32.87 | 6.06 | .68 | 24.63 | 332.6 | 0 |
| 10 | 13.68 | 32.863 | 6.01 | .58 | 10 | 13.68 | 32.85 | 6.02 | .59 | 24.62 | 334.3 | .033 |
| 20 | 13.67 | 32.868 | 6.01 | .61 | 20 | 13.67 | 32.85 | 6.02 | .62 | 24.62 | 333.9 | .067 |
| 30 | 13.67 | 32.864 | 5.96 | .70 | 30 | 13.67 | 32.86 | 5.96 | .71 | 24.63 | 333.7 | .100 |
| 49 | 12.05 | 33.023 | 5.39 | 1.15 | 50 | 11.92 | 33.04 | 5.34 | 1.18 | 25.11 | 287.8 | .162 |
| 74 | 9.02 | 33.548 | 4.19 | 1.93 | 75 | 8.97 | 33.56 | 4.16 | 1.95 | 26.02 | 201.5 | .223 |
| 100 | 8.35 | 33.763 | 3.63 | 2.30 | 100 | 8.35 | 33.77 | 3.64 | 2.30 | 26.28 | 177.3 | .271 |
| 150 | 7.37 | 33.937 | 2.69 | 2.42 | 150 | 7.38 | 33.94 | 2.70 | 2.42 | 26.56 | 151.3 | .353 |
| 200 | 6.52 | 33.979 | 2.17 | 2.54 | 200 | 6.53 | 33.98 | 2.17 | 2.54 | 26.71 | 137.6 | .425 |
| 301 | 5.78 | 34.040 | 1.61 | 2.97 | 250 | 6.06 | 34.01 | 1.84 | 2.76 | 26.79 | 130.2 | .492 |
| 400 | 5.31 | 34.084 | 1.23 | 3.06 | 300 | 5.78 | 34.04 | 1.61 | 2.97 | 26.85 | 125.5 | .556 |
| 502 | 4.90 | 34.186 | .54 | 3.23 | 400 | 5.32 | 34.09 | 1.23 | 3.07 | 26.94 | 117.5 | .677 |
| 603 | 4.53 | 34.268 | .34 | 3.31 | 500 | 4.91 | 34.18 | .55 | 3.23 | 27.07 | 106.0 | .789 |
| 803 | 3.97 | 34.345 | 0 | 3.41 | 600 | 4.54 | 34.27 | .34 | 3.31 | 27.17 | 97.1 | .891 |
| 1004 | 3.48 | 34.425 | .43 | 3.51 | 700 | 4.24 | 34.31 | .36 | 3.36 | 27.24 | 90.8 | .984 |
| | | | | | 800 | 3.98 | 34.34 | .38 | 3.41 | 27.29 | 86.1 | 1.073 |
| | | | | | 1000 | 3.49 | 34.42 | .42 | 3.51 | 27.41 | 76.3 | 1.235 |
| BH 105 42 0.0 N 126 32.7 W DATE 24 OCT 62 1300 GCT WIRE 7 DRY 57.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 10 KTS BAR 19 SWELL DIRECTION 32 H 3 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.84 | 32.897 | 5.91 | .63 | 0 | 13.84 | 32.90 | 5.92 | .63 | 24.63 | 333.2 | 0 |
| 10 | 13.84 | 32.865 | 5.85 | .65 | 10 | 13.84 | 32.87 | 5.85 | .65 | 24.60 | 335.8 | .033 |
| 20 | 13.84 | 32.862 | 5.88 | .62 | 20 | 13.84 | 32.87 | 5.89 | .63 | 24.60 | 336.2 | .067 |
| 30 | 13.84 | 32.864 | 5.87 | .59 | 30 | 13.84 | 32.87 | 5.88 | .60 | 24.60 | 336.3 | .101 |
| 49 | 11.10 | 33.174 | 5.00 | 1.89 | 50 | 10.98 | 33.19 | 4.96 | 1.91 | 25.40 | 260.6 | .160 |
| 74 | 8.81 | 33.550 | 4.03 | 2.00 | 75 | 8.77 | 33.56 | 4.00 | 2.01 | 26.05 | 198.4 | .218 |
| 101 | 8.21 | 33.796 | 3.34 | 2.23 | 100 | 8.21 | 33.79 | 3.36 | 2.22 | 26.32 | 173.7 | .264 |
| 152 | 7.19 | 33.965 | 2.37 | 2.37 | 150 | 7.22 | 33.96 | 2.40 | 2.37 | 26.60 | 147.7 | .345 |
| 203 | 6.73 | 33.980 | 2.03 | 2.55 | 200 | 6.75 | 33.98 | 2.04 | 2.54 | 26.68 | 140.9 | .417 |
| 304 | 5.88 | 34.051 | 1.34 | 2.68 | 250 | 6.32 | 34.01 | 1.69 | 2.61 | 26.76 | 133.6 | .485 |
| 403 | 5.22 | 34.093 | .92 | 3.07 | 300 | 5.91 | 34.05 | 1.37 | 2.68 | 26.84 | 126.4 | .550 |
| 505 | 4.72 | 34.146 | .63 | 3.15 | 400 | 5.24 | 34.09 | .93 | 3.06 | 26.96 | 116.3 | .672 |
| 606 | 4.39 | 34.230 | .39 | 3.27 | 500 | 4.74 | 34.14 | .64 | 3.15 | 27.05 | 107.1 | .783 |
| 808 | 3.93 | 34.356 | .28 | 3.35 | 600 | 4.41 | 34.22 | .40 | 3.26 | 27.15 | 98.6 | .886 |
| 1010 | 3.40 | 34.451 | .37 | 3.23 | 700 | 4.16 | 34.29 | .30 | 3.33 | 27.23 | 91.3 | .981 |
| | | | | | 800 | 3.95 | 34.35 | .28 | 3.35 | 27.30 | 85.2 | 1.069 |
| | | | | | 1000 | 3.43 | 34.45 | .36 | 3.24 | 27.43 | 73.8 | 1.228 |
| BH 125 42 0.0 N 127 0.0 W DATE 24 OCT 62 1650 GCT WIRE 10 DRY 57.3 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 9 KTS BAR 19 SWELL DIRECTION 15 H 3 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.35 | 32.908 | 5.97 | .96 | 0 | 13.35 | 32.91 | 5.97 | .97 | 24.73 | 322.9 | 0 |
| 10 | 13.34 | 32.900 | 6.10 | .59 | 10 | 13.34 | 32.91 | 6.10 | .60 | 24.73 | 323.5 | .032 |
| 20 | 13.33 | 32.903 | 5.93 | .61 | 20 | 13.33 | 32.91 | 5.94 | .62 | 24.73 | 323.3 | .065 |
| 30 | 13.22 | 32.908 | 5.85 | .78 | 30 | 13.22 | 32.91 | 5.85 | .79 | 24.76 | 321.1 | .097 |
| 50 | 9.27 | 33.430 | 4.28 | 1.77 | 50 | 9.27 | 33.43 | 4.29 | 1.77 | 25.88 | 215.0 | .150 |
| 75 | 8.28 | 33.672 | 3.55 | 2.03 | 75 | 8.28 | 33.68 | 3.55 | 2.03 | 26.22 | 182.7 | .200 |
| 101 | 7.97 | 33.805 | 3.21 | 2.06 | 100 | 7.98 | 33.80 | 3.22 | 2.06 | 26.36 | 169.4 | .244 |
| 152 | 7.15 | 33.949 | 2.42 | 2.07 | 150 | 7.18 | 33.95 | 2.45 | 2.07 | 26.59 | 148.4 | .324 |
| 204 | 6.50 | 33.992 | 2.01 | 2.42 | 200 | 6.54 | 33.99 | 2.03 | 2.39 | 26.71 | 137.3 | .395 |
| 304 | 5.61 | 34.048 | 1.45 | 2.95 | 250 | 6.03 | 34.02 | 1.73 | 2.70 | 26.80 | 129.4 | .462 |
| 404 | 5.21 | 34.115 | .88 | 3.02 | 300 | 5.64 | 34.05 | 1.47 | 2.94 | 26.87 | 123.2 | .525 |
| 506 | 4.87 | 34.217 | .47 | 3.16 | 400 | 5.22 | 34.11 | .90 | 3.02 | 26.97 | 114.6 | .644 |
| 607 | 4.45 | 34.263 | .34 | 3.35 | 500 | 4.89 | 34.21 | .49 | 3.15 | 27.09 | 103.8 | .753 |
| 809 | 3.86 | 34.394 | .33 | 3.33 | 600 | 4.48 | 34.26 | .34 | 3.34 | 27.17 | 96.8 | .853 |
| 1009 | 3.39 | 34.429 | .45 | 3.06 | 700 | 4.15 | 34.33 | .34 | 3.34 | 27.26 | 88.7 | .946 |
| | | | | | 800 | 3.88 | 34.39 | .33 | 3.34 | 27.34 | 81.7 | 1.031 |
| | | | | | 1000 | 3.41 | 34.43 | .44 | 3.08 | 27.42 | 75.1 | 1.188 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH145 42 0.5 N 127 26.8 W DATE 24 OCT 62 2010 GCT WIRE DRY 59.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 6 KTS BAR 18 SWELL DIRECTION 16 H 2 T 7 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.13 | 32.893 | 6.10 | .77 | 0 | 13.13 | 32.90 | 6.10 | .78 | 24.77 | 319.8 | 0 |
| 8 | 13.07 | 32.890 | 6.05 | .62 | 10 | 13.05 | 32.89 | 6.05 | .64 | 24.78 | 318.7 | .032 |
| 18 | 12.99 | 32.915 | 6.05 | .82 | 20 | 12.78 | 32.94 | 5.96 | .87 | 24.87 | 310.3 | .063 |
| 28 | 11.74 | 33.079 | 5.50 | 1.06 | 30 | 11.51 | 33.11 | 5.40 | 1.12 | 25.24 | 275.4 | .093 |
| 49 | 9.74 | 33.384 | 4.61 | 1.66 | 50 | 9.67 | 33.40 | 4.57 | 1.69 | 25.78 | 223.7 | .143 |
| 75 | 8.36 | 33.729 | 3.69 | 2.17 | 75 | 8.36 | 33.73 | 3.70 | 2.17 | 26.25 | 179.6 | .193 |
| 101 | 7.94 | 33.829 | 3.21 | 2.26 | 100 | 7.95 | 33.83 | 3.22 | 2.26 | 26.39 | 167.0 | .236 |
| 153 | 7.39 | 33.957 | 2.86 | 2.26 | 150 | 7.42 | 33.95 | 2.87 | 2.26 | 26.56 | 151.2 | .316 |
| 205 | 6.61 | 33.993 | 2.20 | 2.63 | 200 | 6.68 | 33.99 | 2.27 | 2.59 | 26.69 | 139.1 | .388 |
| 308 | 5.94 | 34.050 | 1.29 | 2.99 | 250 | 6.20 | 34.02 | 1.74 | 2.84 | 26.78 | 131.6 | .456 |
| 410 | 5.23 | 34.133 | .82 | 3.05 | 300 | 5.88 | 34.05 | 1.34 | 2.98 | 26.84 | 126.2 | .520 |
| 509 | 4.72 | 34.166 | .59 | 3.22 | 400 | 5.28 | 34.13 | .85 | 3.05 | 26.98 | 114.4 | .641 |
| 608 | 4.58 | 34.266 | .37 | 3.47 | 500 | 4.76 | 34.16 | .61 | 3.20 | 27.07 | 105.8 | .751 |
| 802 | 3.92 | 34.361 | .32 | 3.55 | 600 | 4.59 | 34.26 | .39 | 3.45 | 27.16 | 98.3 | .853 |
| 1003 | 3.38 | 34.448 | .39 | 3.47 | 700 | 4.29 | 34.32 | .35 | 3.51 | 27.24 | 90.8 | .947 |
| | | | | | 800 | 3.93 | 34.36 | .32 | 3.55 | 27.31 | 84.3 | 1.035 |
| | | | | | 1000 | 3.39 | 34.45 | .39 | 3.47 | 27.43 | 73.4 | 1.192 |
| BH 165 41 59.6 N 127 52.2 W DATE 25 OCT 62 0040 GCT WIRE - DRY 58.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 7 KTS BAR 18 SWELL DIRECTION 16 H 1 T 7 CLOUD 9 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.62 | 33.033 | 6.13 | | 0 | 12.63 | 33.04 | 6.14 | | 24.97 | 300.0 | 0 |
| 10 | 12.56 | 33.035 | 6.04 | | 10 | 12.56 | 33.04 | 6.05 | | 24.99 | 299.0 | .030 |
| 20 | 12.25 | 33.085 | 5.91 | | 20 | 12.25 | 33.09 | 5.92 | | 25.08 | 289.9 | .059 |
| 30 | 11.70 | 33.149 | 5.58 | | 30 | 11.70 | 33.15 | 5.58 | | 25.24 | 275.5 | .088 |
| 50 | 10.79 | 33.275 | 5.06 | | 50 | 10.79 | 33.28 | 5.06 | | 25.50 | 250.9 | .140 |
| 75 | 8.79 | 33.604 | 4.10 | | 75 | 8.79 | 33.61 | 4.10 | | 26.09 | 195.2 | .196 |
| 101 | 8.14 | 33.812 | 3.54 | | 100 | 8.15 | 33.81 | 3.56 | | 26.34 | 171.5 | .242 |
| 152 | 7.37 | 33.957 | 2.86 | | 150 | 7.40 | 33.96 | 2.88 | | 26.57 | 150.6 | .322 |
| 204 | 6.42 | 33.955 | 2.65 | | 200 | 6.49 | 33.96 | 2.66 | | 26.69 | 139.3 | .395 |
| 305 | 5.89 | 34.050 | 1.56 | | 250 | 6.08 | 33.99 | 2.18 | | 26.77 | 132.0 | .463 |
| 406 | 5.16 | 34.098 | .90 | | 300 | 5.90 | 34.04 | 1.62 | | 26.84 | 126.5 | .527 |
| 508 | 4.72 | 34.170 | .63 | | 400 | 5.20 | 34.10 | .93 | | 26.96 | 115.6 | .648 |
| 609 | 4.57 | 34.252 | .41 | | 500 | 4.74 | 34.16 | .64 | | 27.07 | 105.6 | .759 |
| 811 | 3.95 | 34.348 | .54 | | 600 | 4.58 | 34.24 | .42 | | 27.15 | 99.1 | .861 |
| 1013 | 3.42 | 34.433 | .55 | | 700 | 4.31 | 34.30 | .43 | | 27.23 | 92.4 | .957 |
| | | | | | 800 | 3.99 | 34.34 | .52 | | 27.29 | 86.2 | 1.046 |
| | | | | | 1000 | 3.45 | 34.43 | .55 | | 27.41 | 75.5 | 1.208 |
| CH 35 43 20.5 N 125 10.5 W DATE 26 OCT 62 0207 GCT WIRE 18 DRY 55.2 WET 53.8 | | | | | | | | | | | | |
| WIND DIRECTION 16 VEL 13 KTS BAR 19 SWELL DIRECTION 16 H 3 T 5 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.22 | 32.506 | 6.25 | .50 | 0 | 13.22 | 32.51 | 6.26 | .51 | 24.45 | 350.0 | 0 |
| 9 | 12.77 | 32.634 | 6.25 | .67 | 10 | 12.74 | 32.64 | 6.24 | .68 | 24.64 | 331.7 | .034 |
| 28 | 12.57 | 32.721 | 6.05 | .70 | 20 | 12.58 | 32.69 | 6.15 | .69 | 24.72 | 324.9 | .067 |
| 46 | 12.62 | 32.899 | 5.85 | .75 | 30 | 12.61 | 32.74 | 6.04 | .71 | 24.74 | 322.5 | .099 |
| 70 | 10.06 | 33.148 | 4.96 | 1.33 | 50 | 12.26 | 32.93 | 5.73 | .82 | 24.96 | 302.3 | .162 |
| 94 | 8.49 | 33.658 | 4.02 | 2.07 | 75 | 9.66 | 33.25 | 4.75 | 1.50 | 25.67 | 234.7 | .229 |
| 143 | 7.95 | 33.885 | 3.19 | 2.14 | 100 | 8.33 | 33.72 | 3.88 | 2.12 | 26.25 | 180.6 | .281 |
| 192 | 7.39 | 33.969 | 2.48 | 2.47 | 150 | 7.87 | 33.90 | 3.07 | 2.18 | 26.46 | 161.1 | .366 |
| 287 | 6.42 | 33.993 | 2.07 | 2.62 | 200 | 7.30 | 33.97 | 2.42 | 2.49 | 26.60 | 148.7 | .444 |
| 381 | 5.59 | 34.053 | 1.51 | 2.87 | 250 | 6.78 | 33.99 | 2.16 | 2.59 | 26.68 | 141.1 | .516 |
| 477 | 4.84 | 34.057 | 1.22 | 2.96 | 300 | 6.30 | 34.00 | 1.99 | 2.66 | 26.75 | 134.8 | .585 |
| 574 | 4.72 | 34.157 | .54 | 3.28 | 400 | 5.41 | 34.05 | 1.46 | 2.89 | 26.90 | 121.3 | .713 |
| 674 | 4.59 | 34.242 | .38 | 3.32 | 500 | 4.78 | 34.08 | 1.05 | 3.04 | 27.00 | 112.5 | .830 |
| 873 | 4.19 | 34.314 | .29 | 3.28 | 600 | 4.69 | 34.18 | .47 | 3.31 | 27.09 | 105.1 | .939 |
| 973 | 3.73 | 34.416 | .31 | 3.25 | 700 | 4.56 | 34.25 | .35 | 3.31 | 27.16 | 99.2 | 1.041 |
| | | | | | 800 | 4.39 | 34.28 | .30 | 3.31 | 27.20 | 95.3 | 1.138 |
| | | | | | 1000 | 3.61 | 34.44 | .32 | 3.24 | 27.41 | 76.1 | 1.309 |
| NH 5 44 39.1 N 124 10.6 W DATE 16 DEC 62 2338 GCT WIRE 2 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 4 KTS BAR 12 SWELL DIRECTION 26 H 6 T 11 CLOUD 8 AMT 7 WEATHER - | | | | | | | | | | | | |
| 0 | 11.60 | 32.089 | 6.28 | | 0 | 11.60 | 32.09 | 6.29 | | 24.43 | 351.4 | 0 |
| 10 | 11.59 | 32.230 | 6.34 | | 10 | 11.59 | 32.23 | 6.34 | | 24.55 | 341.0 | .035 |
| 20 | 11.60 | 32.295 | 6.29 | | 20 | 11.60 | 32.30 | 6.30 | | 24.59 | 336.5 | .068 |
| 30 | 11.72 | 32.444 | 6.13 | | 30 | 11.72 | 32.45 | 6.14 | | 24.69 | 327.8 | .102 |
| 40 | 11.72 | 32.531 | 6.16 | | 50 | 11.73 | 32.53 | 6.18 | | 24.75 | 322.0 | .167 |
| 50 | 11.73 | 32.530 | 6.17 | | | | | | | | | |

| | OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH 15 44 39.1 N 124 24.7 W DATE 17 DEC 62 0134 GCT WIRE - DRY 53.0 WET 50.0
WIND DIRECTION 29 VEL 4 KTS BAR 13 SWELL DIRECTION 26 H 6 T 11 CLOUD 8 AMT 7 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.86 | 32.489 | 6.21 | 0 | 11.86 | 32.49 | 6.21 | 24.70 | 326.4 | 0 |
| 10 | 11.83 | 32.493 | 6.27 | 10 | 11.83 | 32.50 | 6.28 | 24.71 | 325.8 | .033 |
| 20 | 11.84 | 32.545 | 6.14 | 20 | 11.84 | 32.55 | 6.15 | 24.74 | 322.3 | .065 |
| 30 | 11.84 | 32.522 | 6.07 | 30 | 11.84 | 32.53 | 6.07 | 24.73 | 324.2 | .097 |
| 50 | 11.54 | 32.646 | 5.79 | 50 | 11.54 | 32.65 | 5.80 | 24.88 | 310.2 | .161 |
| 75 | 10.42 | 33.056 | 4.81 | 75 | 10.42 | 33.06 | 4.81 | 25.39 | 261.4 | .232 |

NH 25 44 39.2 N 124 38.8 W DATE 17 DEC 62 0350 GCT WIRE - DRY 54.0 WET 50.0
WIND DIRECTION 29 VEL 4 KTS BAR 12 SWELL DIRECTION 26 H 7 T 10 CLOUD 1 AMT 6 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.86 | 32.531 | 6.24 | 0 | 11.86 | 32.54 | 6.24 | 24.73 | 323.3 | 0 |
| 10 | 11.87 | 32.506 | 6.18 | 10 | 11.88 | 32.51 | 6.19 | 24.71 | 325.5 | .032 |
| 20 | 11.87 | 32.504 | 6.17 | 20 | 11.88 | 32.51 | 6.18 | 24.71 | 325.8 | .065 |
| 30 | 11.88 | 32.508 | 6.17 | 30 | 11.88 | 32.51 | 6.18 | 24.71 | 325.9 | .098 |
| 50 | 11.79 | 32.571 | 6.11 | 50 | 11.79 | 32.58 | 6.11 | 24.77 | 320.1 | .162 |
| 75 | 10.05 | 33.180 | 4.61 | 75 | 10.05 | 33.18 | 4.61 | 25.55 | 246.2 | .233 |
| 104 | 8.98 | 33.457 | 4.17 | 100 | 9.08 | 33.43 | 4.19 | 25.91 | 213.0 | .290 |
| 158 | 8.19 | 33.827 | 3.32 | 150 | 8.25 | 33.79 | 3.44 | 26.31 | 175.3 | .387 |
| 208 | 7.56 | 33.941 | 2.69 | 200 | 7.65 | 33.94 | 2.78 | 26.52 | 156.3 | .470 |

NH 35 44 39.4 N 124 52.8 W DATE 17 DEC 62 0700 GCT WIRE 4 DRY 52.0 WET 49.0
WIND DIRECTION 32 VEL 9 KTS BAR 14 SWELL DIRECTION 26 H 7 T 10 CLOUD 8 AMT - WEATHER -

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.84 | 32.514 | 6.19 | 0 | 11.84 | 32.52 | 6.19 | 24.72 | 324.2 | 0 |
| 10 | 11.85 | 32.515 | 6.19 | 10 | 11.85 | 32.52 | 6.19 | 24.72 | 324.5 | .032 |
| 20 | 11.85 | 32.513 | 6.14 | 20 | 11.85 | 32.52 | 6.15 | 24.72 | 324.8 | .065 |
| 30 | 11.85 | 32.517 | 6.13 | 30 | 11.85 | 32.52 | 6.14 | 24.72 | 324.7 | .097 |
| 50 | 10.94 | 32.848 | 5.32 | 50 | 10.94 | 32.85 | 5.32 | 25.14 | 285.0 | .158 |
| 76 | 9.27 | 33.350 | 4.61 | 75 | 9.33 | 33.33 | 4.63 | 25.79 | 223.8 | .222 |
| 105 | 8.83 | 33.563 | 3.73 | 100 | 8.85 | 33.54 | 3.87 | 26.03 | 201.6 | .275 |
| 160 | 7.98 | 33.891 | 2.93 | 150 | 8.12 | 33.85 | 3.00 | 26.38 | 169.0 | .368 |
| 211 | 7.54 | 33.946 | 2.95 | 200 | 7.61 | 33.93 | 2.95 | 26.52 | 155.9 | .449 |

NH 45 44 39.2 N 125 7.0 W DATE 17 DEC 62 0910 GCT WIRE 5 DRY 52.0 WET 49.0
WIND DIRECTION 33 VEL 4 KTS BAR 14 SWELL DIRECTION 26 H 6 T 11 CLOUD 8 AMT 2 WEATHER -

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.79 | 32.546 | 6.55 | 0 | 11.79 | 32.57 | 6.56 | 24.77 | 319.5 | 0 |
| 10 | 11.79 | 32.512 | 6.17 | 10 | 11.79 | 32.52 | 6.18 | 24.73 | 323.7 | .032 |
| 20 | 11.78 | 32.578 | 6.13 | 20 | 11.78 | 32.58 | 6.14 | 24.78 | 318.8 | .064 |
| 30 | 11.79 | 32.510 | 6.08 | 30 | 11.79 | 32.51 | 6.08 | 24.73 | 324.2 | .096 |
| 52 | 11.51 | 32.681 | 5.59 | 50 | 11.57 | 32.65 | 5.66 | 24.87 | 310.9 | .160 |
| 78 | 9.52 | 33.470 | 4.22 | 75 | 9.76 | 33.38 | 4.38 | 25.75 | 227.2 | .227 |
| 109 | 8.97 | 33.629 | 3.49 | 100 | 9.02 | 33.63 | 3.64 | 26.07 | 197.7 | .280 |
| 160 | 8.22 | 33.847 | 2.72 | 150 | 8.35 | 33.81 | 2.83 | 26.31 | 175.1 | .373 |
| 213 | 7.62 | 34.010 | 2.56 | 200 | 7.76 | 33.98 | 2.57 | 26.53 | 154.8 | .456 |
| 315 | 6.57 | 34.054 | 2.20 | 250 | 7.22 | 34.05 | 2.43 | 26.67 | 142.8 | .530 |
| 416 | 5.72 | 34.049 | 1.93 | 300 | 6.71 | 34.05 | 2.25 | 26.73 | 136.8 | .600 |
| 519 | 5.25 | 34.103 | 1.08 | 400 | 5.84 | 34.05 | 1.99 | 26.85 | 126.8 | .732 |
| 619 | 4.57 | 34.208 | .54 | 500 | 5.33 | 34.09 | 1.25 | 26.94 | 118.2 | .854 |
| | | | | 600 | 4.72 | 34.18 | .62 | 27.09 | 105.3 | .966 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH 65 44 39.2 N 125 34.9 W DATE 17 DEC 62 1510 GCT WIRE 14 DRY 51.0 WET 50.0
WIND DIRECTION 36 VEL 9 KTS BAR 15 SWELL DIRECTION 26 H 8 T 8 CLOUD 8 AMT 4 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.60 | 32.558 | 6.13 | 0 | 11.60 | 32.56 | 6.14 | 24.80 | 316.8 | 0 |
| 10 | 11.59 | 32.514 | 6.17 | 10 | 11.59 | 32.52 | 6.18 | 24.77 | 320.0 | .032 |
| 19 | 11.60 | 32.514 | 6.10 | 20 | 11.60 | 32.51 | 6.11 | 24.76 | 320.7 | .064 |
| 28 | 11.60 | 32.514 | 6.20 | 30 | 11.60 | 32.51 | 6.20 | 24.76 | 320.8 | .096 |
| 49 | 11.60 | 32.522 | 6.21 | 50 | 11.55 | 32.54 | 6.17 | 24.79 | 318.4 | .160 |
| 99 | 8.54 | 33.603 | 3.88 | 75 | 10.12 | 33.04 | 5.11 | 25.43 | 258.0 | .232 |
| 152 | 8.12 | 33.910 | 3.02 | 100 | 8.52 | 33.61 | 3.85 | 26.13 | 191.2 | .288 |
| 201 | 7.72 | 34.008 | 2.63 | 150 | 8.14 | 33.91 | 3.03 | 26.42 | 164.6 | .377 |
| 299 | 6.51 | 33.994 | 2.29 | 200 | 7.73 | 34.01 | 2.64 | 26.56 | 152.2 | .456 |
| 400 | 5.09 | 33.997 | 1.55 | 250 | 7.16 | 34.00 | 2.45 | 26.64 | 145.5 | .530 |
| 500 | 4.75 | 34.108 | .89 | 300 | 6.49 | 33.99 | 2.28 | 26.72 | 137.9 | .601 |
| 598 | 4.69 | 34.218 | .45 | 400 | 5.09 | 34.00 | 1.55 | 26.90 | 121.3 | .731 |
| 795 | 4.04 | 34.327 | .37 | 500 | 4.76 | 34.11 | .90 | 27.03 | 109.5 | .846 |
| 992 | 3.56 | 34.418 | .50 | 600 | 4.68 | 34.22 | .45 | 27.12 | 102.3 | .952 |
| 1189 | 3.24 | 34.524 | .50 | 700 | 4.39 | 34.28 | .41 | 27.20 | 94.5 | 1.050 |
| | | | | 800 | 4.03 | 34.33 | .37 | 27.28 | 87.8 | 1.142 |
| | | | | 1000 | 3.54 | 34.42 | .50 | 27.40 | 77.0 | 1.306 |
| | | | | 1200 | 3.22 | 34.53 | .50 | 27.52 | 66.4 | 1.450 |

NH 85 44 39.3 N 125 3.1 W DATE 17 DEC 62 1925 GCT WIRE 3 DRY 50.5 WET 46.5
WIND DIRECTION 25 VEL 5 KTS BAR 16 SWELL DIRECTION 27 H 10 T 10 CLOUD 8 AMT 2 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.60 | 32.592 | 6.07 | 0 | 11.60 | 32.60 | 6.07 | 24.82 | 314.2 | 0 |
| 10 | 11.61 | 32.584 | 6.09 | 10 | 11.61 | 32.59 | 6.09 | 24.82 | 315.2 | .031 |
| 20 | 11.58 | 32.549 | 6.03 | 20 | 11.58 | 32.55 | 6.04 | 24.79 | 317.4 | .063 |
| 30 | 11.60 | 32.552 | 6.10 | 30 | 11.60 | 32.56 | 6.10 | 24.79 | 317.8 | .095 |

NH 105 44 39.1 N 126 31.2 W DATE 17 DEC 62 2310 GCT WIRE 4 DRY 52.0 WET 47.0
WIND DIRECTION 24 VEL 4 KTS BAR 15 SWELL, DIRECTION 27 H 8 T 10 CLOUD 8 AMT 5 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.46 | 32.549 | 6.24 | 0 | 11.46 | 32.55 | 6.24 | 24.82 | 315.0 | 0 |
| 10 | 11.47 | 32.539 | 6.10 | 10 | 11.47 | 32.54 | 6.10 | 24.81 | 316.1 | .032 |
| 20 | 11.44 | 32.541 | 6.09 | 20 | 11.44 | 32.55 | 6.09 | 24.81 | 315.6 | .063 |
| 30 | 11.44 | 32.568 | 6.11 | 30 | 11.44 | 32.57 | 6.11 | 24.83 | 313.8 | .095 |
| 52 | 11.57 | 32.573 | 6.13 | 50 | 11.56 | 32.57 | 6.13 | 24.81 | 316.5 | .158 |
| 77 | 9.56 | 32.932 | 5.29 | 75 | 9.74 | 32.89 | 5.38 | 25.38 | 262.7 | .230 |
| 109 | 8.64 | 33.500 | 4.03 | 100 | 8.79 | 33.35 | 4.36 | 25.88 | 214.9 | .290 |
| 160 | 7.71 | 33.805 | 3.59 | 150 | 7.86 | 33.78 | 3.61 | 26.36 | 170.1 | .386 |
| 213 | 6.89 | 33.944 | 2.81 | 200 | 7.07 | 33.92 | 3.00 | 26.59 | 149.5 | .466 |
| 314 | 5.91 | 34.004 | 2.10 | 250 | 6.46 | 33.98 | 2.51 | 26.71 | 137.8 | .538 |
| 415 | 5.35 | 34.095 | 1.02 | 300 | 6.01 | 34.00 | 2.18 | 26.79 | 131.0 | .605 |
| 517 | 5.08 | 34.182 | .58 | 400 | 5.41 | 34.08 | 1.17 | 26.93 | 119.3 | .730 |
| 616 | 4.31 | 34.229 | .47 | 500 | 5.13 | 34.17 | .62 | 27.03 | 109.8 | .844 |
| 817 | 3.91 | 34.383 | .28 | 600 | 4.44 | 34.22 | .48 | 27.15 | 99.2 | .949 |
| 1016 | 3.40 | 34.441 | .39 | 700 | 4.06 | 34.29 | .37 | 27.25 | 90.0 | 1.043 |
| | | | | 800 | 3.92 | 34.37 | .29 | 27.32 | 83.4 | 1.130 |
| | | | | 1000 | 3.45 | 34.44 | .37 | 27.42 | 74.6 | 1.288 |

NH 125 44 39.3 N 126 59.0 W DATE 18 DEC 62 0330 GCT WIRE 11 DRY 51.5 WET 47.0
WIND DIRECTION VEL C KTS BAR 15 SWELL DIRECTION 27 H 5 T 8 CLOUD - AMT 4 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.89 | 32.519 | 6.17 | 0 | 11.89 | 32.52 | 6.18 | 24.71 | 324.7 | 0 |
| 10 | 11.90 | 32.531 | 6.17 | 10 | 11.90 | 32.54 | 6.18 | 24.72 | 324.2 | .032 |
| 20 | 11.91 | 32.543 | 6.15 | 20 | 11.91 | 32.55 | 6.16 | 24.73 | 323.7 | .065 |
| 29 | 11.91 | 32.510 | 6.03 | 30 | 11.91 | 32.51 | 6.04 | 24.70 | 326.6 | .097 |
| 50 | 11.91 | 32.513 | 6.17 | 50 | 11.91 | 32.52 | 6.18 | 24.71 | 326.5 | .163 |
| 75 | 9.75 | 32.788 | 5.66 | 75 | 9.75 | 32.79 | 5.67 | 25.30 | 270.4 | .237 |
| 105 | 8.19 | 33.458 | 3.93 | 100 | 8.38 | 33.34 | 4.23 | 25.95 | 209.1 | .297 |
| 155 | 7.79 | 33.872 | 2.74 | 150 | 7.83 | 33.86 | 2.79 | 26.43 | 163.9 | .390 |
| 205 | 7.17 | 33.949 | 2.51 | 200 | 7.23 | 33.94 | 2.51 | 26.58 | 150.2 | .469 |
| 304 | 6.29 | 34.027 | 2.13 | 250 | 6.73 | 33.99 | 2.36 | 26.69 | 140.4 | .542 |
| 403 | 5.57 | 34.072 | 1.21 | 300 | 6.32 | 34.03 | 2.15 | 26.77 | 133.3 | .610 |
| 503 | 5.06 | 34.119 | .74 | 400 | 5.59 | 34.07 | 1.24 | 26.90 | 122.2 | .738 |
| 601 | 4.67 | 34.181 | .48 | 500 | 5.07 | 34.12 | .75 | 26.99 | 112.9 | .855 |
| 797 | 4.19 | 34.307 | .29 | 600 | 4.67 | 34.18 | .48 | 27.09 | 105.0 | .964 |
| | | | | 700 | 4.38 | 34.24 | .33 | 27.17 | 97.4 | 1.065 |
| | | | | 800 | 4.18 | 34.31 | .29 | 27.24 | 91.1 | 1.159 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| NH 145 44 39.1 N 127 22.0 W DATE 18 DEC 62 0630 GCT WIRE 5 DRY 51.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 4 KTS BAR 15 SWELL DIRECTION 27 H 5 T 8 CLOUD 8 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.88 | 32.590 | 6.08 | | 0 | 11.88 | 32.59 | 6.08 | | 24.77 | 319.3 | 0 |
| 10 | 11.86 | 32.564 | 6.03 | | 10 | 11.86 | 32.57 | 6.04 | | 24.75 | 321.1 | .032 |
| 20 | 11.89 | 32.579 | 6.03 | | 20 | 11.89 | 32.58 | 6.04 | | 24.76 | 320.7 | .064 |
| 30 | 11.90 | 32.547 | 6.00 | | 30 | 11.90 | 32.55 | 6.01 | | 24.73 | 323.4 | .096 |
| 52 | 11.89 | 32.550 | 6.27 | | 50 | 11.89 | 32.55 | 6.26 | | 24.73 | 323.7 | .161 |
| 78 | 8.54 | 32.942 | 5.29 | | 75 | 8.95 | 32.89 | 5.44 | | 25.50 | 251.1 | .233 |
| 109 | 8.22 | 33.421 | 3.96 | | 100 | 8.31 | 33.29 | 4.33 | | 25.91 | 212.2 | .291 |
| 161 | 7.89 | 33.821 | 2.85 | | 150 | 7.96 | 33.77 | 3.00 | | 26.34 | 172.3 | .387 |
| 214 | 7.21 | 33.925 | 2.44 | | 200 | 7.40 | 33.91 | 2.51 | | 26.53 | 154.5 | .469 |
| 315 | 6.19 | 34.018 | 1.73 | | 250 | 6.79 | 33.97 | 2.19 | | 26.66 | 143.1 | .543 |
| 416 | 5.72 | 34.091 | .96 | | 300 | 6.31 | 34.01 | 1.83 | | 26.76 | 134.4 | .612 |
| 518 | 5.16 | 34.141 | .64 | | 400 | 5.78 | 34.08 | 1.07 | | 26.88 | 123.8 | .741 |
| 618 | 4.74 | 34.207 | .41 | | 500 | 5.26 | 34.13 | .68 | | 26.98 | 114.0 | .860 |
| 818 | 4.09 | 34.324 | .28 | | 600 | 4.81 | 34.19 | .44 | | 27.09 | 105.6 | .970 |
| 1018 | 3.57 | 34.422 | .29 | | 700 | 4.45 | 34.26 | .32 | | 27.18 | 97.3 | 1.071 |
| | | | | | 800 | 4.14 | 34.31 | .29 | | 27.25 | 90.2 | 1.165 |
| | | | | | 1000 | 3.61 | 34.41 | .28 | | 27.39 | 78.4 | 1.334 |
| NH 165 44 39.1 N 127 55.0 W DATE 18 DEC 62 1116 GCT WIRE 10 DRY 53.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 14 KTS BAR 14 SWELL DIRECTION 27 H 4 T 9 CLOUD - AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.54 | 32.539 | 6.20 | | 0 | 11.54 | 32.54 | 6.20 | | 24.79 | 317.1 | 0 |
| 10 | 11.54 | 32.568 | 6.23 | | 10 | 11.54 | 32.56 | 6.23 | | 24.81 | 315.9 | .032 |
| 20 | 11.53 | 32.531 | 6.20 | | 20 | 11.53 | 32.54 | 6.20 | | 24.79 | 317.9 | .063 |
| 30 | 11.55 | 32.545 | 6.17 | | 30 | 11.55 | 32.55 | 6.18 | | 24.80 | 317.4 | .095 |
| 52 | 11.55 | 32.529 | 6.21 | | 50 | 11.55 | 32.53 | 6.21 | | 24.78 | 319.1 | .159 |
| 78 | 9.25 | 32.817 | 5.83 | | 75 | 9.55 | 32.77 | 5.90 | | 25.31 | 268.7 | .232 |
| 109 | 8.18 | 33.364 | 4.57 | | 100 | 8.37 | 33.20 | 4.95 | | 25.83 | 219.9 | .293 |
| 160 | 7.61 | 33.837 | 3.83 | | 150 | 7.67 | 33.78 | 3.90 | | 26.39 | 167.6 | .390 |
| 211 | 6.95 | 33.940 | 3.23 | | 200 | 7.10 | 33.94 | 3.35 | | 26.59 | 148.7 | .469 |
| 311 | 5.62 | 33.967 | 2.47 | | 250 | 6.40 | 33.96 | 2.90 | | 26.71 | 138.3 | .541 |
| 514 | 4.78 | 34.116 | .89 | | 300 | 5.75 | 33.96 | 2.54 | | 26.79 | 130.7 | .608 |
| 613 | 4.33 | 34.201 | .42 | | 400 | 5.11 | 34.02 | 1.73 | | 26.92 | 119.9 | .733 |
| 813 | 3.88 | 34.313 | .26 | | 500 | 4.80 | 34.10 | .99 | | 27.01 | 110.7 | .849 |
| 1012 | 3.51 | 34.420 | .33 | | 600 | 4.39 | 34.19 | .47 | | 27.13 | 101.0 | .954 |
| | | | | | 700 | 4.09 | 34.25 | .27 | | 27.21 | 93.3 | 1.052 |
| | | | | | 800 | 3.90 | 34.31 | .27 | | 27.27 | 87.9 | 1.142 |
| | | | | | 1000 | 3.53 | 34.41 | .32 | | 27.39 | 77.5 | 1.307 |
| ANH169 45 11.0 N 127 58.0 W DATE 18 DEC 62 1715 GCT WIRE 16 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 28 KTS BAR 13 SWELL DIRECTION 18 H 6 T 7 CLOUD 0 AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.22 | 32.538 | 6.17 | | 0 | 11.22 | 32.54 | 6.18 | | 24.85 | 311.7 | 0 |
| 10 | 11.22 | 32.543 | 6.20 | | 10 | 11.22 | 32.55 | 6.20 | | 24.85 | 311.5 | .031 |
| 19 | 11.22 | 32.541 | 6.20 | | 20 | 11.22 | 32.54 | 6.20 | | 24.85 | 312.1 | .062 |
| 28 | 11.24 | 32.547 | 6.23 | | 30 | 11.24 | 32.55 | 6.24 | | 24.85 | 312.2 | .094 |
| 49 | 11.23 | 32.549 | 6.25 | | 50 | 11.19 | 32.55 | 6.25 | | 24.86 | 311.3 | .156 |
| 98 | 8.64 | 32.913 | 5.52 | | 75 | 9.99 | 32.68 | 6.00 | | 25.17 | 282.1 | .230 |
| 150 | 7.52 | 33.764 | 3.56 | | 100 | 8.58 | 32.95 | 5.44 | | 25.60 | 241.4 | .295 |
| 199 | 6.98 | 33.885 | 3.25 | | 150 | 7.53 | 33.76 | 3.57 | | 26.40 | 167.0 | .398 |
| 298 | 5.75 | 33.950 | 2.37 | | 200 | 6.97 | 33.89 | 3.24 | | 26.57 | 150.7 | .477 |
| 397 | 5.21 | 34.038 | 1.22 | | 250 | 6.31 | 33.93 | 2.83 | | 26.70 | 139.3 | .549 |
| 792 | 3.90 | 34.318 | .25 | | 300 | 5.74 | 33.95 | 2.35 | | 26.78 | 131.4 | .617 |
| 991 | 3.45 | 34.400 | .25 | | 400 | 5.20 | 34.04 | 1.20 | | 26.92 | 119.6 | .743 |
| 1189 | 2.97 | 34.451 | .42 | | 500 | 4.78 | 34.12 | .63 | | 27.03 | 108.9 | .857 |
| | | | | | 600 | 4.42 | 34.20 | .28 | | 27.13 | 100.7 | .962 |
| | | | | | 700 | 4.12 | 34.26 | .48 | | 27.22 | 92.9 | 1.058 |
| | | | | | 800 | 3.88 | 34.32 | .25 | | 27.29 | 86.6 | 1.148 |
| | | | | | 1000 | 3.43 | 34.40 | .25 | | 27.40 | 77.1 | 1.312 |
| | | | | | 1200 | 2.94 | 34.45 | .43 | | 27.48 | 68.8 | 1.457 |
| AH 165 46 14.5 N 128 4.0 W DATE 19 DEC 62 0210 GCT WIRE 5 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 12 KTS BAR 13 SWELL DIRECTION 24 H 7 T 8 CLOUD 0 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.11 | 32.534 | 6.17 | | 0 | 11.11 | 32.54 | 6.18 | | 24.87 | 310.1 | 0 |
| 10 | 11.12 | 32.534 | 6.15 | | 10 | 11.13 | 32.54 | 6.16 | | 24.87 | 310.5 | .031 |
| 20 | | 32.555 | 6.28 | | 20 | 11.12 | 32.56 | 6.29 | | 24.88 | 309.0 | .062 |
| 30 | 11.12 | 32.531 | 6.20 | | 30 | 11.13 | 32.54 | 6.20 | | 24.86 | 311.1 | .093 |
| 52 | 11.10 | 32.533 | 6.25 | | 50 | 11.11 | 32.53 | 6.24 | | 24.86 | 311.4 | .155 |
| 77 | 10.61 | 32.619 | 6.13 | | 75 | 10.68 | 32.61 | 6.16 | | 24.99 | 299.3 | .232 |
| 108 | 8.13 | 33.102 | 5.08 | | 100 | 8.79 | 32.96 | 5.39 | | 25.58 | 243.7 | .299 |
| 159 | 7.48 | 33.765 | 3.60 | | 150 | 7.59 | 33.66 | 3.82 | | 26.31 | 175.0 | .404 |
| 210 | 6.84 | 33.898 | 3.08 | | 200 | 6.96 | 33.89 | 3.14 | | 26.58 | 150.1 | .485 |
| 309 | 5.78 | 33.950 | 2.23 | | 250 | 6.38 | 33.94 | 2.73 | | 26.69 | 140.0 | .558 |
| 409 | 5.08 | 34.027 | 1.19 | | 300 | 5.86 | 33.95 | 2.31 | | 26.76 | 133.5 | .626 |
| | | | | | 400 | 5.13 | 34.02 | 1.29 | | 26.91 | 120.4 | .753 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 145 46 14.2 N 127 35.0 W DATE 19 DEC 62 0610 GCT WIRE 11 DRY 50.0 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 9 KTS BAR 15 SWELL DIRECTION 27 H 6 T 8 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.16 | 32.556 | 6.28 | | 0 | 11.16 | 32.56 | 6.29 | | 24.88 | 309.3 | 0 |
| 10 | 11.19 | 32.561 | 6.19 | | 10 | 11.19 | 32.57 | 6.19 | | 24.87 | 309.7 | .031 |
| 20 | 11.22 | 32.560 | 6.29 | | 20 | 11.22 | 32.55 | 6.30 | | 24.86 | 311.2 | .062 |
| 30 | 11.20 | 32.564 | 6.20 | | 30 | 11.20 | 32.56 | 6.20 | | 24.87 | 310.7 | .093 |
| 50 | 11.20 | 32.563 | 6.29 | | 50 | 11.20 | 32.57 | 6.30 | | 24.87 | 310.4 | .155 |
| 77 | 10.18 | 32.608 | 6.18 | | 75 | 10.29 | 32.61 | 6.20 | | 25.06 | 292.8 | .231 |
| 104 | 8.27 | 32.549 | 5.58 | | 100 | 8.55 | 32.56 | 5.69 | | 25.30 | 270.0 | .301 |
| 154 | 7.47 | 33.723 | 3.82 | | 150 | 7.53 | 33.62 | 3.95 | | 26.28 | 177.7 | .413 |
| 208 | 7.04 | 33.888 | 3.22 | | 200 | 7.09 | 33.86 | 3.27 | | 26.54 | 154.1 | .496 |
| 309 | 5.92 | 33.966 | 1.97 | | 250 | 6.57 | 33.94 | 2.69 | | 26.67 | 142.2 | .570 |
| 411 | 5.34 | 34.047 | 1.11 | | 300 | 6.02 | 33.97 | 2.08 | | 26.76 | 133.9 | .639 |
| 514 | 4.96 | 34.143 | .63 | | 400 | 5.38 | 34.04 | 1.18 | | 26.90 | 122.1 | .747 |
| 615 | 4.50 | 34.220 | .43 | | 500 | 5.01 | 34.13 | .68 | | 27.01 | 111.2 | .883 |
| 833 | 3.83 | 34.321 | .24 | | 600 | 4.57 | 34.21 | .45 | | 27.12 | 101.6 | .990 |
| 1033 | 3.40 | 34.442 | .26 | | 700 | 4.20 | 34.26 | .32 | | 27.21 | 94.0 | 1.087 |
| | | | | | 800 | 3.91 | 34.31 | .25 | | 27.27 | 88.0 | 1.178 |
| | | | | | 1000 | 3.46 | 34.42 | .24 | | 27.41 | 76.2 | 1.343 |
| AH 125 46 14.4 N 127 6.0 W DATE 19 DEC 62 1155 GCT WIRE 4 DRY 51.5 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 9 KTS BAR 19 SWELL DIRECTION 21 H 6 T 9 CLOUD 4 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.98 | 32.542 | 6.29 | | 0 | 10.98 | 32.55 | 6.30 | | 24.90 | 307.3 | 0 |
| 10 | 10.99 | 32.565 | 6.25 | | 10 | 10.99 | 32.57 | 6.26 | | 24.91 | 306.0 | .031 |
| 20 | 0 | 32.562 | 6.40 | | 20 | 10.95 | 32.57 | 6.41 | | 24.92 | 305.7 | .061 |
| 30 | 10.90 | 32.526 | 6.23 | | 30 | 10.90 | 32.53 | 6.23 | | 24.90 | 307.7 | .092 |
| 50 | 10.80 | 32.540 | 6.28 | | 50 | 10.80 | 32.54 | 6.29 | | 24.93 | 305.4 | .153 |
| 77 | 9.74 | 32.646 | 6.10 | | 75 | 9.85 | 32.63 | 6.15 | | 25.15 | 284.2 | .227 |
| 104 | 8.14 | 33.345 | 4.27 | | 100 | 8.37 | 33.23 | 4.56 | | 25.86 | 217.3 | .290 |
| 154 | 7.45 | 33.849 | 3.35 | | 150 | 7.45 | 33.84 | 3.36 | | 26.47 | 160.3 | .384 |
| 208 | 6.73 | 33.931 | 2.83 | | 200 | 6.83 | 33.92 | 2.89 | | 26.62 | 146.5 | .461 |
| 309 | 5.65 | 34.004 | 1.97 | | 250 | 6.23 | 33.97 | 2.46 | | 26.73 | 135.8 | .531 |
| 412 | 4.99 | 34.092 | 1.22 | | 300 | 5.73 | 34.00 | 2.04 | | 26.82 | 127.8 | .597 |
| 514 | 4.86 | 34.141 | .66 | | 400 | 5.04 | 34.08 | 1.30 | | 26.97 | 114.7 | .718 |
| 616 | 4.48 | 34.213 | .40 | | 500 | 4.87 | 34.13 | .72 | | 27.03 | 109.2 | .830 |
| 819 | 3.89 | 34.345 | .31 | | 600 | 4.55 | 34.20 | .43 | | 27.12 | 102.0 | .936 |
| 1021 | 3.46 | 34.413 | .38 | | 700 | 4.21 | 34.27 | .32 | | 27.21 | 93.4 | 1.033 |
| | | | | | 800 | 3.94 | 34.33 | .32 | | 27.29 | 86.4 | 1.123 |
| | | | | | 1000 | 3.50 | 34.41 | .37 | | 27.39 | 77.4 | 1.287 |
| AH 105 46 14.3 N 127 37.8 W DATE 19 DEC 62 1540 GCT WIRE 10 DRY 52.0 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 9 KTS BAR 24 SWELL DIRECTION 26 H 8 T 9 CLOUD 4 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.92 | 32.406 | 6.29 | | 0 | 10.92 | 32.41 | 6.30 | | 24.80 | 316.4 | 0 |
| 10 | 10.93 | 32.414 | 6.30 | | 10 | 10.93 | 32.42 | 6.31 | | 24.81 | 316.1 | .032 |
| 20 | 10.93 | 32.406 | 6.34 | | 20 | 10.93 | 32.41 | 6.34 | | 24.80 | 316.9 | .063 |
| 30 | 10.94 | 32.406 | 6.30 | | 30 | 10.94 | 32.41 | 6.31 | | 24.80 | 317.2 | .095 |
| 49 | 10.92 | 32.424 | 6.27 | | 50 | 10.82 | 32.44 | 6.23 | | 24.84 | 313.2 | .158 |
| 75 | 8.21 | 33.051 | 4.92 | | 75 | 8.21 | 33.06 | 4.92 | | 25.74 | 227.8 | .226 |
| 103 | 7.90 | 33.530 | 3.82 | | 100 | 7.93 | 33.49 | 3.92 | | 26.12 | 192.0 | .278 |
| 152 | 7.47 | 33.857 | 3.06 | | 150 | 7.49 | 33.85 | 3.07 | | 26.47 | 159.5 | .366 |
| 205 | 6.89 | 33.938 | 2.47 | | 200 | 6.95 | 33.94 | 2.52 | | 26.62 | 146.6 | .442 |
| 305 | 6.01 | 34.015 | 1.69 | | 250 | 6.46 | 33.98 | 2.08 | | 26.72 | 137.7 | .514 |
| 405 | 5.46 | 34.076 | 1.05 | | 300 | 6.05 | 34.01 | 1.72 | | 26.79 | 130.8 | .581 |
| 505 | 5.00 | 34.135 | .68 | | 400 | 5.48 | 34.07 | 1.08 | | 26.91 | 120.7 | .706 |
| 604 | 4.59 | 34.206 | .42 | | 500 | 5.02 | 34.13 | .69 | | 27.01 | 111.2 | .822 |
| 803 | 4.05 | 34.325 | .28 | | 600 | 4.61 | 34.20 | .43 | | 27.12 | 102.6 | .929 |
| 1005 | 3.53 | 34.423 | .31 | | 700 | 4.30 | 34.27 | .31 | | 27.20 | 94.9 | 1.028 |
| | | | | | 800 | 4.06 | 34.32 | .28 | | 27.27 | 88.6 | 1.119 |
| | | | | | 1000 | 3.54 | 34.42 | .31 | | 27.40 | 77.1 | 1.285 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 85 46 14.4 N 126 8.8 W DATE 19 DEC 62 1935 GCT WIRE 3 DRY 53.0 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 7 KTS BAR 25 SWELL DIRECTION 24 H 7 T 8 CLOUD 4 AMT 5 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.12 | 32.437 | 6.30 | | 0 | 11.13 | 32.44 | 6.31 | | 24.79 | 317.5 | 0 |
| 10 | 11.11 | 32.438 | 6.27 | | 10 | 11.11 | 32.44 | 6.28 | | 24.79 | 317.4 | .032 |
| 20 | | 32.435 | 6.27 | | 20 | 11.11 | 32.44 | 6.28 | | 24.79 | 317.8 | .063 |
| 30 | 11.12 | 32.433 | 6.21 | | 30 | 11.13 | 32.44 | 6.21 | | 24.79 | 318.3 | .095 |
| 50 | 11.10 | 32.437 | 6.27 | | 50 | 11.10 | 32.44 | 6.28 | | 24.79 | 318.0 | .159 |
| 77 | 8.32 | 32.908 | 5.32 | | 75 | 8.54 | 32.86 | 5.42 | | 25.54 | 246.9 | .230 |
| 105 | 8.14 | 33.568 | 3.87 | | 100 | 8.17 | 33.46 | 4.12 | | 26.06 | 197.8 | .285 |
| 154 | 7.67 | 33.882 | 2.90 | | 150 | 7.71 | 33.88 | 2.93 | | 26.46 | 160.6 | .375 |
| 208 | 7.18 | 33.967 | 2.45 | | 200 | 7.25 | 33.96 | 2.49 | | 26.59 | 148.7 | .452 |
| 309 | 5.99 | 33.971 | 2.03 | | 250 | 6.66 | 33.97 | 2.27 | | 26.68 | 141.3 | .524 |
| 411 | 5.52 | 34.074 | 1.22 | | 300 | 6.09 | 33.97 | 2.06 | | 26.76 | 134.4 | .593 |
| 513 | 4.97 | 34.116 | .83 | | 400 | 5.55 | 34.06 | 1.31 | | 26.80 | 122.4 | .722 |
| 614 | 4.48 | 34.169 | .60 | | 500 | 5.04 | 34.11 | .86 | | 26.99 | 112.9 | .839 |
| 816 | 4.10 | 34.309 | .32 | | 600 | 4.54 | 34.16 | .63 | | 27.09 | 104.9 | .948 |
| 1017 | 3.59 | 34.400 | .35 | | 700 | 4.28 | 34.23 | .45 | | 27.17 | 97.4 | 1.049 |
| | | | | | 800 | 4.12 | 34.30 | .33 | | 27.24 | 91.2 | 1.144 |
| | | | | | 1000 | 3.64 | 34.39 | .34 | | 27.37 | 80.2 | 1.315 |
| AH 65 46 14.3 N 125 38.8 W DATE 19 DEC 62 2318 GCT WIRE 4 DRY 53.0 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 7 KTS BAR 27 SWELL DIRECTION 24 H 6 T 8 CLOUD 4 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.78 | 32.430 | 6.37 | | 0 | 10.78 | 32.43 | 6.38 | | 24.84 | 312.3 | 0 |
| 10 | 10.76 | 32.423 | 6.44 | | 10 | 10.76 | 32.43 | 6.44 | | 24.84 | 312.6 | .031 |
| 20 | 9.89 | | 6.38 | | 20 | 9.89 | 32.42 | 6.39 | | 24.99 | 299.0 | .062 |
| 30 | 10.72 | 32.427 | 6.27 | | 30 | 10.72 | 32.43 | 6.28 | | 24.85 | 312.0 | .092 |
| 50 | 9.87 | 32.658 | 5.72 | | 50 | 9.88 | 32.66 | 5.72 | | 25.18 | 281.5 | .152 |
| 77 | 8.40 | 33.296 | 4.30 | | 75 | 8.50 | 33.25 | 4.41 | | 25.85 | 217.7 | .214 |
| 105 | 8.05 | 33.684 | 3.19 | | 100 | 8.07 | 33.63 | 3.35 | | 26.22 | 183.2 | .264 |
| 155 | 7.61 | 33.869 | 2.67 | | 150 | 7.65 | 33.87 | 2.68 | | 26.46 | 160.6 | .350 |
| 207 | 7.14 | 33.939 | 2.33 | | 200 | 7.20 | 33.93 | 2.37 | | 26.58 | 150.3 | .428 |
| 309 | 6.38 | 33.989 | 1.97 | | 250 | 6.80 | 33.97 | 2.17 | | 26.66 | 143.2 | .501 |
| 410 | 5.72 | 34.048 | 1.27 | | 300 | 6.44 | 33.99 | 2.00 | | 26.72 | 137.8 | .571 |
| 513 | 5.23 | 34.118 | .84 | | 400 | 5.78 | 34.04 | 1.34 | | 26.85 | 126.7 | .704 |
| 613 | 4.83 | 34.157 | .58 | | 500 | 5.28 | 34.11 | .88 | | 26.96 | 116.1 | .825 |
| 814 | 4.16 | 34.301 | .31 | | 600 | 4.88 | 34.15 | .61 | | 27.04 | 109.6 | .938 |
| 1015 | 3.63 | 34.385 | .37 | | 700 | 4.52 | 34.22 | .42 | | 27.14 | 101.1 | 1.043 |
| | | | | | 800 | 4.20 | 34.29 | .32 | | 27.23 | 92.7 | 1.140 |
| | | | | | 1000 | 3.66 | 34.38 | .35 | | 27.35 | 81.5 | 1.314 |
| AH 45 46 14.4 N 125 10.5 W DATE 20 DEC 62 0430 GCT WIRE 1 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 3 KTS BAR 28 SWELL DIRECTION 26 H 6 T 8 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.59 | 32.348 | 6.40 | | 0 | 10.59 | 32.35 | 6.41 | | 24.81 | 315.2 | 0 |
| 10 | 10.59 | 32.340 | 6.34 | | 10 | 10.59 | 32.34 | 6.34 | | 24.81 | 316.0 | .032 |
| 20 | 10.60 | 32.342 | 6.40 | | 20 | 10.60 | 32.35 | 6.41 | | 24.81 | 316.2 | .063 |
| 30 | 10.56 | 32.367 | 6.28 | | 30 | 10.56 | 32.37 | 6.29 | | 24.83 | 313.8 | .095 |
| 50 | 10.57 | 32.371 | 6.30 | | 50 | 10.57 | 32.38 | 6.31 | | 24.84 | 314.0 | .157 |
| 76 | 8.37 | 33.122 | 4.64 | | 75 | 8.46 | 33.09 | 4.71 | | 25.73 | 228.9 | .225 |
| 104 | 7.96 | 33.546 | 3.60 | | 100 | 8.02 | 33.50 | 3.79 | | 26.12 | 192.2 | .278 |
| 154 | 7.29 | 33.909 | 2.72 | | 150 | 7.34 | 33.89 | 2.77 | | 26.53 | 154.4 | .365 |
| 208 | 6.72 | 33.974 | 2.24 | | 200 | 6.80 | 33.96 | 2.29 | | 26.66 | 142.6 | .439 |
| 309 | 5.93 | 34.019 | 1.57 | | 250 | 6.35 | 34.00 | 1.94 | | 26.74 | 135.1 | .508 |
| 411 | 5.41 | 34.089 | .96 | | 300 | 5.99 | 34.02 | 1.62 | | 26.80 | 129.7 | .574 |
| 514 | 5.00 | 34.142 | .72 | | 400 | 5.46 | 34.08 | 1.02 | | 26.92 | 119.8 | .699 |
| 615 | 4.54 | 34.239 | .47 | | 500 | 5.05 | 34.13 | .74 | | 27.01 | 111.5 | .815 |
| 818 | 3.87 | 34.344 | .33 | | 600 | 4.61 | 34.22 | .50 | | 27.13 | 101.0 | .921 |
| 1020 | 3.41 | 34.415 | .34 | | 700 | 4.23 | 34.29 | .37 | | 27.23 | 92.1 | 1.017 |
| | | | | | 800 | 3.92 | 34.34 | .34 | | 27.30 | 85.9 | 1.106 |
| | | | | | 1000 | 3.45 | 34.41 | .33 | | 27.40 | 76.8 | 1.269 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 35 46 14.4 N 124 56.1 W DATE 20 DEC 62 0810 GCT WIRE 1 DRY 52.0 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 7 KTS BAR 28 SWELL DIRECTION 24 H 6 T 9 CLOUD 8 AMT 2 WEATHER - | | | | | | | | | | | | |
| 0 | 10.78 | 32.410 | 6.23 | | 0 | 10.78 | 32.42 | 6.23 | | 24.83 | 313.8 | 0 |
| 10 | 10.80 | 32.404 | 6.34 | | 10 | 10.80 | 32.41 | 6.34 | | 24.82 | 314.7 | .031 |
| 20 | 10.80 | 32.408 | 6.40 | | 20 | 10.80 | 32.41 | 6.41 | | 24.82 | 314.6 | .063 |
| 30 | 10.80 | 32.407 | 6.17 | | 30 | 10.80 | 32.41 | 6.18 | | 24.82 | 314.8 | .094 |
| 52 | 10.79 | 32.408 | 6.38 | | 50 | 10.79 | 32.41 | 6.37 | | 24.82 | 315.3 | .157 |
| 78 | 8.68 | 33.143 | 4.63 | | 75 | 8.95 | 33.05 | 4.86 | | 25.63 | 239.2 | .227 |
| 108 | 7.96 | 33.546 | 3.69 | | 100 | 8.05 | 33.47 | 3.87 | | 26.09 | 195.1 | .281 |
| 160 | 7.39 | 33.888 | 2.71 | | 150 | 7.46 | 33.85 | 2.84 | | 26.48 | 159.3 | .369 |
| 213 | 7.02 | 33.953 | 2.30 | | 200 | 7.10 | 33.95 | 2.37 | | 26.61 | 147.6 | .446 |
| 414 | 6.03 | 34.014 | 1.63 | | 250 | 6.84 | 33.96 | 2.18 | | 26.65 | 143.9 | .519 |
| 416 | 5.50 | 34.059 | 1.19 | | 300 | 6.59 | 33.98 | 2.01 | | 26.70 | 140.3 | .590 |
| 518 | 4.94 | 34.125 | .75 | | 400 | 6.10 | 34.01 | 1.68 | | 26.78 | 133.2 | .727 |
| 618 | 4.54 | 34.196 | .51 | | 500 | 5.04 | 34.11 | .83 | | 27.00 | 112.8 | .850 |
| | | | | | 600 | 4.60 | 34.18 | .54 | | 27.10 | 104.0 | .958 |
| AH 25 46 14.4 N 124 41.8 W DATE 20 DEC 62 1112 GCT WIRE 2 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 10 KTS BAR 29 SWELL DIRECTION 24 H 6 T 9 CLOUD 4 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.93 | 32.433 | 6.32 | | 0 | 10.93 | 32.44 | 6.32 | | 24.82 | 314.6 | 0 |
| 10 | 10.94 | 32.433 | 6.34 | | 10 | 10.94 | 32.44 | 6.34 | | 24.82 | 314.9 | .031 |
| 20 | 10.93 | 32.433 | 6.46 | | 20 | 10.93 | 32.44 | 6.46 | | 24.82 | 314.9 | .063 |
| 30 | 10.93 | 32.446 | 6.30 | | 30 | 10.93 | 32.45 | 6.31 | | 24.83 | 314.1 | .094 |
| 50 | 10.95 | 32.483 | 6.14 | | 50 | 10.95 | 32.49 | 6.15 | | 24.86 | 312.1 | .157 |
| 74 | 9.32 | 33.054 | 4.96 | | 75 | 9.27 | 33.07 | 4.91 | | 25.60 | 242.0 | .226 |
| 102 | 8.18 | 33.526 | 3.86 | | 100 | 8.24 | 33.50 | 3.93 | | 26.09 | 195.6 | .281 |
| 153 | 7.64 | 33.844 | 3.11 | | 150 | 7.64 | 33.84 | 3.13 | | 26.44 | 162.7 | .370 |
| 207 | 7.33 | 33.920 | 2.81 | | 200 | 7.35 | 33.91 | 2.82 | | 26.54 | 154.2 | .450 |
| AH 15 46 14.4 N 124 27.5 W DATE 20 DEC 62 1445 GCT WIRE 6 DRY 50.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 9 VEL 12 KTS BAR 29 SWELL DIRECTION 24 H 6 T 8 CLOUD 4 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.14 | 32.194 | 6.38 | | 0 | 11.14 | 32.20 | 6.39 | | 24.60 | 335.7 | 0 |
| 10 | 11.14 | 32.194 | 6.40 | | 10 | 11.14 | 32.20 | 6.41 | | 24.60 | 335.9 | .034 |
| 20 | | 32.354 | 6.33 | | 20 | 11.22 | 32.36 | 6.33 | | 24.71 | 325.5 | .067 |
| 30 | 11.31 | 32.477 | 6.21 | | 30 | 11.31 | 32.48 | 6.21 | | 24.79 | 318.3 | .099 |
| 50 | 11.37 | 32.493 | 6.25 | | 50 | 11.38 | 32.50 | 6.26 | | 24.79 | 318.5 | .162 |
| 74 | 10.40 | 32.910 | 4.95 | | 75 | 10.33 | 32.93 | 4.90 | | 25.31 | 269.5 | .236 |
| 102 | 8.61 | 33.450 | 3.67 | | 100 | 8.73 | 33.41 | 3.75 | | 25.95 | 209.2 | .296 |
| 154 | 7.85 | 33.863 | 2.47 | | 150 | 7.91 | 33.85 | 2.52 | | 26.41 | 165.5 | .389 |
| 208 | 7.44 | 33.932 | 2.32 | | 200 | 7.48 | 33.92 | 2.34 | | 26.53 | 155.0 | .470 |
| AH 5 46 14.4 N 124 13.8 W DATE 20 DEC 62 2200 GCT WIRE 5 DRY 50.6 WET 47.9 | | | | | | | | | | | | |
| WIND DIRECTION 10 VEL 9 KTS BAR 28 SWELL DIRECTION 24 H 3 T 7 CLOUD 1 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.24 | 25.050 | 6.86 | | 0 | 10.24 | 25.05 | 6.86 | | 19.21 | 851.9 | 0 |
| 10 | 11.16 | 31.021 | 6.40 | | 10 | 11.16 | 31.03 | 6.41 | | 23.69 | 423.0 | .064 |
| 20 | 11.25 | 32.185 | 6.23 | | 20 | 11.25 | 32.19 | 6.23 | | 24.57 | 338.6 | .102 |
| 30 | 11.33 | 32.437 | 5.99 | | 30 | 11.33 | 32.44 | 5.99 | | 24.75 | 321.6 | .135 |
| 40 | 11.38 | 32.467 | 5.70 | | | | | | | | | |
| 50 | 11.35 | 32.497 | 6.10 | | 50 | 11.35 | 32.50 | 6.10 | | 24.80 | 317.9 | .199 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH 37 45 28.8 N 124 51.9 W DATE 21 DEC 62 1210 GCT WIRE 4 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 4 KTS BAR 27 SWELL DIRECTION 28 H 4 T 9 CLOUD - AMT - WEATHER 40 | | | | | | | | | | | | |
| 0 | 10.96 | 32.402 | | | 0 | 10.96 | 32.41 | | | 24.79 | 317.4 | 0 |
| 10 | 10.95 | 32.402 | | | 10 | 10.95 | 32.41 | | | 24.79 | 317.4 | .032 |
| 20 | | 32.405 | | | 20 | 10.90 | 32.41 | | | 24.81 | 316.4 | .063 |
| 30 | 10.85 | 32.416 | | | 30 | 10.85 | 32.42 | | | 24.82 | 315.0 | .095 |
| 50 | 10.84 | 32.487 | | | 50 | 10.84 | 32.49 | | | 24.88 | 309.9 | .157 |
| 76 | 9.80 | 32.820 | | | 75 | 9.85 | 32.80 | | | 25.29 | 271.2 | .230 |
| 104 | 8.24 | 33.315 | | | 100 | 8.45 | 33.24 | | | 25.86 | 217.5 | .291 |
| 154 | 7.90 | 33.826 | | | 150 | 7.93 | 33.80 | | | 26.37 | 169.5 | .388 |
| 207 | 7.54 | 33.928 | | | 200 | 7.59 | 33.91 | | | 26.51 | 157.1 | .470 |
| 308 | 6.44 | 34.004 | | | 250 | 7.08 | 33.97 | | | 26.62 | 146.7 | .545 |
| 409 | 5.67 | 34.046 | | | 300 | 6.53 | 34.00 | | | 26.72 | 137.8 | .617 |
| 510 | 5.17 | 34.100 | | | 400 | 5.73 | 34.04 | | | 26.86 | 126.0 | .748 |
| 611 | 4.75 | 34.176 | | | 500 | 5.21 | 34.09 | | | 26.96 | 116.4 | .870 |
| 812 | 4.09 | 34.320 | | | 600 | 4.79 | 34.17 | | | 27.07 | 107.4 | .981 |
| 1013 | 3.60 | 34.405 | | | 700 | 4.43 | 34.24 | | | 27.17 | 98.1 | 1.084 |
| | | | | | 800 | 4.12 | 34.31 | | | 27.25 | 90.2 | 1.178 |
| | | | | | 1000 | 3.63 | 34.40 | | | 27.37 | 79.5 | 1.348 |
| CH 5 43 20.5 N 124 29.0 W DATE 28 DEC 62 0030 GCT WIRE 4 DRY 49.5 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 11 KTS BAR 22 SWELL DIRECTION 22 H 2 T 6 CLOUD 0 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.14 | 32.445 | 6.24 | | 0 | 11.14 | 32.45 | 6.24 | | 24.79 | 317.2 | 0 |
| 10 | 11.15 | 32.418 | 6.16 | | 10 | 11.15 | 32.42 | 6.17 | | 24.77 | 319.5 | .032 |
| 20 | 11.16 | 32.415 | 6.22 | | 20 | 11.16 | 32.42 | 6.22 | | 24.77 | 320.1 | .064 |
| 30 | 11.30 | 32.716 | 5.30 | | 30 | 11.30 | 32.72 | 5.31 | | 24.97 | 300.5 | .095 |
| 49 | 9.69 | 33.352 | 4.01 | | 50 | 9.63 | 33.38 | 3.96 | | 25.77 | 224.8 | .147 |
| 73 | 8.84 | 33.708 | 3.13 | | | | | | | | | |
| CH 15 43 20.5 N 124 43.0 W DATE 28 DEC 62 0230 GCT WIRE - DRY 50.3 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 13 KTS BAR 18 SWELL DIRECTION 20 H 2 T 6 CLOUD 0 AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.33 | 32.402 | 6.17 | | 0 | 11.33 | 32.41 | 6.18 | | 24.73 | 323.6 | 0 |
| 10 | 11.34 | 32.437 | 6.09 | | 10 | 11.34 | 32.44 | 6.09 | | 24.75 | 321.4 | .032 |
| 20 | 11.35 | | 6.19 | | 20 | 11.35 | 32.43 | 6.19 | | 24.74 | 322.3 | .064 |
| 29 | 11.38 | 32.425 | 6.16 | | 30 | 11.39 | 32.43 | 6.15 | | 24.73 | 323.7 | .097 |
| 47 | 11.46 | 32.460 | 5.96 | | 50 | 11.37 | 32.52 | 5.80 | | 24.81 | 316.4 | .161 |
| 68 | 10.58 | 33.029 | 4.68 | | 75 | 10.22 | 33.23 | 4.29 | | 25.56 | 245.7 | .231 |
| 96 | 9.24 | 33.734 | 3.33 | | 100 | 9.15 | 33.77 | 3.24 | | 26.16 | 188.8 | .285 |
| 148 | 8.57 | 33.801 | 2.75 | | 150 | 8.54 | 33.90 | 2.73 | | 26.35 | 171.5 | .375 |
| 197 | 7.83 | 33.948 | 2.44 | | 200 | 7.78 | 33.95 | 2.42 | | 26.51 | 157.1 | .457 |
| CH 25 43 20.5 N 124 55.5 W DATE 28 DEC 62 0445 GCT WIRE 4 DRY 51.1 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 14 KTS BAR 18 SWELL DIRECTION 20 H 3 T 6 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.22 | 32.418 | 6.19 | | 0 | 11.22 | 32.42 | 6.19 | | 24.76 | 320.6 | 0 |
| 10 | 11.22 | 32.428 | 6.10 | | 10 | 11.22 | 32.43 | 6.10 | | 24.77 | 320.0 | .032 |
| 20 | 11.26 | | 6.20 | | 20 | 11.26 | 32.44 | 6.20 | | 24.76 | 320.5 | .064 |
| 30 | 11.33 | 32.447 | 5.99 | | 30 | 11.33 | 32.45 | 5.99 | | 24.76 | 320.8 | .096 |
| 50 | 11.59 | 32.657 | 5.72 | | 50 | 11.59 | 32.66 | 5.72 | | 24.88 | 310.2 | .159 |
| 77 | 9.92 | 33.131 | 5.01 | | 75 | 10.07 | 33.09 | 5.08 | | 25.48 | 253.3 | .230 |
| 104 | 9.32 | 33.625 | 3.69 | | 100 | 9.37 | 33.56 | 3.88 | | 25.96 | 208.2 | .287 |
| 154 | 8.38 | 33.853 | 2.94 | | 150 | 8.45 | 33.83 | 2.95 | | 26.32 | 174.6 | .383 |
| 209 | 7.61 | 33.972 | 2.94 | | 200 | 7.72 | 33.96 | 2.94 | | 26.52 | 155.6 | .465 |
| 311 | 6.72 | 34.007 | 2.07 | | 250 | 7.21 | 34.00 | 2.66 | | 26.63 | 146.4 | .541 |
| 412 | 5.91 | 34.005 | 1.25 | | 300 | 6.80 | 34.00 | 2.19 | | 26.69 | 141.2 | .613 |
| 515 | 5.28 | 34.145 | 1.01 | | 400 | 6.00 | 34.08 | 1.33 | | 26.86 | 126.4 | .747 |
| 619 | 4.74 | 34.209 | .51 | | 500 | 5.36 | 34.14 | 1.03 | | 26.98 | 114.9 | .867 |
| | | | | | 600 | 4.83 | 34.20 | .62 | | 27.08 | 105.7 | .977 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 35 43 20.5 N 125 10.4 W DATE 28 DEC 62 0755 GCT WIRE - DRY 51.5 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 16 KTS BAR 18 SWELL DIRECTION 18 H 4 T 6 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.33 | 32.689 | 6.09 | | 0 | 11.33 | 32.69 | 6.09 | | 24.95 | 302.4 | 0 |
| 10 | 11.34 | 32.601 | 5.96 | | 10 | 11.34 | 32.61 | 5.96 | | 24.88 | 309.3 | .031 |
| 20 | 11.36 | | 6.06 | | 20 | 11.36 | 32.60 | 6.07 | | 24.87 | 310.2 | .062 |
| 30 | 11.36 | 32.599 | 5.96 | | 30 | 11.36 | 32.60 | 5.96 | | 24.87 | 310.1 | .093 |
| 49 | 11.35 | 32.603 | 5.97 | | 50 | 11.31 | 32.63 | 5.93 | | 24.90 | 307.9 | .154 |
| 75 | 9.95 | 33.290 | 4.68 | | 75 | 9.95 | 33.29 | 4.68 | | 25.66 | 236.5 | .222 |
| 102 | 9.17 | 33.627 | 3.75 | | 100 | 9.21 | 33.61 | 3.81 | | 26.02 | 201.8 | .277 |
| 150 | 8.59 | 33.846 | 2.94 | | 150 | 8.59 | 33.85 | 2.95 | | 26.31 | 175.6 | .371 |
| 203 | 7.83 | 33.968 | 2.48 | | 200 | 7.87 | 33.96 | 2.50 | | 26.51 | 157.5 | .455 |
| 301 | 6.86 | 34.012 | 2.12 | | 250 | 7.34 | 34.01 | 2.28 | | 26.61 | 147.7 | .531 |
| 405 | 5.60 | 34.030 | 1.55 | | 300 | 6.87 | 34.01 | 2.12 | | 26.68 | 141.6 | .603 |
| 510 | 5.28 | 34.140 | .82 | | 400 | 5.65 | 34.03 | 1.58 | | 26.86 | 126.1 | .737 |
| 610 | 4.86 | 34.202 | 0 | | 500 | 5.29 | 34.13 | .89 | | 26.98 | 114.8 | .857 |
| 814 | 4.18 | 34.310 | .39 | | 600 | 4.90 | 34.20 | .53 | | 27.08 | 106.6 | .968 |
| 1017 | 3.56 | 34.425 | .41 | | 700 | 4.54 | 34.25 | .55 | | 27.16 | 98.9 | 1.071 |
| | | | | | 800 | 4.22 | 34.30 | .41 | | 27.24 | 92.0 | 1.166 |
| | | | | | 1000 | 3.61 | 34.42 | .40 | | 27.39 | 78.3 | 1.336 |
| CH 45 43 20.5 N 125 24.4 W DATE 28 DEC 62 1030 GCT WIRE 4 DRY 49.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 18 KTS BAR 20 SWELL DIRECTION 21 H 4 T 6 CLOUD 0 AMT 10 WEATHER 52 | | | | | | | | | | | | |
| 0 | 11.23 | 32.486 | 6.13 | | 0 | 11.23 | 32.49 | 6.14 | | 24.81 | 315.7 | 0 |
| 10 | 11.25 | 32.546 | 6.03 | | 10 | 11.25 | 32.55 | 6.04 | | 24.85 | 311.8 | .031 |
| 20 | 11.36 | | 6.15 | | 20 | 11.36 | 32.61 | 6.16 | | 24.88 | 309.3 | .062 |
| 30 | 11.39 | 32.660 | 6.03 | | 30 | 11.39 | 32.67 | 6.04 | | 24.91 | 306.2 | .093 |
| 50 | 11.44 | 32.629 | 6.06 | | 50 | 11.44 | 32.63 | 6.07 | | 24.88 | 309.7 | .155 |
| 76 | 9.79 | 33.487 | 4.80 | | 75 | 9.87 | 33.45 | 4.86 | | 25.79 | 223.5 | .221 |
| 104 | 8.77 | 33.657 | 3.69 | | 100 | 8.88 | 33.63 | 3.82 | | 26.09 | 195.2 | .274 |
| 153 | 7.90 | 33.886 | 3.21 | | 150 | 7.93 | 33.88 | 3.24 | | 26.43 | 164.0 | .363 |
| 207 | 7.44 | 33.945 | 2.91 | | 200 | 7.49 | 33.94 | 2.94 | | 26.55 | 153.5 | .443 |
| 308 | 6.36 | 33.994 | 2.17 | | 250 | 6.98 | 33.97 | 2.62 | | 26.64 | 145.4 | .518 |
| 412 | 5.62 | 34.078 | 1.19 | | 300 | 6.44 | 33.99 | 2.24 | | 26.73 | 137.5 | .588 |
| 517 | 5.15 | 34.159 | .72 | | 400 | 5.69 | 34.07 | 1.30 | | 26.88 | 123.7 | .719 |
| 619 | 4.71 | 34.211 | .46 | | 500 | 5.22 | 34.15 | .77 | | 27.00 | 112.5 | .837 |
| 822 | 4.09 | 34.337 | .31 | | 600 | 4.79 | 34.20 | .50 | | 27.09 | 104.8 | .945 |
| 1027 | 3.55 | 34.424 | .39 | | 700 | 4.44 | 34.26 | .36 | | 27.18 | 96.8 | 1.046 |
| | | | | | 800 | 4.15 | 34.32 | .33 | | 27.26 | 89.6 | 1.139 |
| | | | | | 1000 | 3.62 | 34.41 | .37 | | 27.39 | 78.4 | 1.307 |
| CH 65 43 20.5 N 125 51.5 W DATE 28 DEC 62 1550 GCT WIRE 18 DRY 54.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 16 KTS BAR 18 SWELL DIRECTION 19 H 4 T 6 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.51 | 32.554 | 6.06 | | 0 | 11.51 | 32.56 | 6.07 | | 24.81 | 315.5 | 0 |
| 10 | 11.50 | 32.554 | 6.06 | | 10 | 11.50 | 32.56 | 6.07 | | 24.81 | 315.5 | .032 |
| 19 | 11.51 | | 6.07 | | 20 | 11.51 | 32.56 | 6.07 | | 24.81 | 316.0 | .063 |
| 28 | 11.51 | 32.558 | 6.09 | | 30 | 11.51 | 32.56 | 6.09 | | 24.81 | 316.0 | .095 |
| 47 | 11.51 | 32.565 | 6.05 | | 50 | 11.47 | 32.57 | 6.03 | | 24.83 | 314.6 | .158 |
| 73 | 11.15 | 32.630 | 5.90 | | 75 | 10.95 | 32.67 | 5.80 | | 25.00 | 299.1 | .234 |
| 99 | 8.38 | 33.217 | 4.46 | | 100 | 8.34 | 33.23 | 4.42 | | 25.86 | 216.7 | .299 |
| 146 | 7.78 | 33.770 | 3.39 | | 150 | 7.73 | 33.79 | 3.34 | | 26.39 | 167.3 | .395 |
| 196 | 7.14 | 33.932 | 2.94 | | 200 | 7.10 | 33.94 | 2.90 | | 26.60 | 148.6 | .474 |
| 293 | 6.18 | 33.987 | 2.07 | | 250 | 6.58 | 33.98 | 2.45 | | 26.70 | 139.0 | .546 |
| 392 | 5.31 | 34.065 | 1.23 | | 300 | 6.11 | 33.99 | 2.00 | | 26.77 | 133.1 | .614 |
| 493 | 4.89 | 34.143 | .69 | | 400 | 5.27 | 34.06 | 1.18 | | 26.93 | 118.9 | .740 |
| 590 | 4.52 | 34.198 | .47 | | 500 | 4.86 | 34.15 | .67 | | 27.04 | 108.2 | .853 |
| 788 | 4.07 | 34.341 | .35 | | 600 | 4.49 | 34.21 | .46 | | 27.13 | 101.1 | .958 |
| 989 | 3.45 | 34.411 | .38 | | 700 | 4.25 | 34.28 | .37 | | 27.21 | 93.4 | 1.055 |
| | | | | | 800 | 4.04 | 34.35 | .35 | | 27.29 | 86.6 | 1.145 |
| | | | | | 1000 | 3.42 | 34.41 | .38 | | 27.41 | 76.1 | 1.307 |

| | OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |

CH 85 43 20.5 N 126 14.0 W DATE 28 DEC 62 1955 GCT WIRE - DRY 0 WET 0
WIND DIRECTION 17 VEL 19 KTS BAR 20 SWELL DIRECTION 17 H 5 T 6 CLOUD 0 AMT 10 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.33 | 32.518 | 6.09 | 0 | 11.33 | 32.52 | 6.09 | 24.82 | 315.0 | 0 |
| 10 | 11.33 | 32.523 | 6.03 | 10 | 11.33 | 32.53 | 6.04 | 24.82 | 314.9 | .031 |
| 20 | 11.34 | | 6.07 | 20 | 11.34 | 32.52 | 6.07 | 24.81 | 316.0 | .063 |
| 30 | 11.35 | 32.509 | 6.04 | 30 | 11.35 | 32.51 | 6.05 | 24.81 | 316.6 | .095 |
| 56 | 11.35 | 32.514 | 6.09 | 50 | 11.35 | 32.51 | 6.08 | 24.81 | 317.0 | .158 |
| 76 | 8.77 | 33.062 | 4.91 | 75 | 8.90 | 33.03 | 4.98 | 25.62 | 239.7 | .228 |
| 103 | 8.13 | 33.527 | 4.06 | 100 | 8.20 | 33.49 | 4.13 | 26.08 | 195.9 | .282 |
| 152 | 7.79 | 33.912 | 2.93 | 150 | 7.80 | 33.91 | 2.97 | 26.47 | 159.9 | .371 |
| 205 | 7.10 | 33.988 | 2.38 | 200 | 7.17 | 33.98 | 2.41 | 26.62 | 146.4 | .448 |
| 306 | 5.92 | 33.999 | 1.88 | 250 | 6.53 | 33.99 | 2.13 | 26.72 | 137.7 | .519 |
| 410 | 5.22 | 34.074 | 1.05 | 300 | 5.98 | 34.00 | 1.90 | 26.79 | 131.0 | .586 |
| 515 | 4.70 | 34.127 | .84 | 400 | 5.27 | 34.07 | 1.12 | 26.93 | 118.7 | .710 |
| 617 | 4.38 | | .68 | 500 | 4.76 | 34.12 | .85 | 27.03 | 109.1 | .824 |
| 820 | 3.98 | 34.340 | .37 | 600 | 4.42 | 34.19 | .71 | 27.12 | 101.6 | .930 |
| 1025 | 3.43 | 34.424 | .45 | 700 | 4.21 | 34.26 | .53 | 27.20 | 94.5 | 1.028 |
| | | | | 800 | 4.02 | 34.33 | .39 | 27.28 | 87.9 | 1.119 |
| | | | | 1000 | 3.50 | 34.42 | .42 | 27.40 | 77.0 | 1.283 |

CH 105 43 20.5 N 126 45.6 W DATE 28 DEC 62 2350 GCT WIRE - DRY 54.0 WET 51.5
WIND DIRECTION 16 VEL 26 KTS BAR 14 SWELL DIRECTION 16 H 6 T 6 CLOUD 0 AMT 10 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.69 | 32.668 | 6.09 | 0 | 11.69 | 32.67 | 6.09 | 24.87 | 310.2 | 0 |
| 10 | 11.68 | 32.681 | 6.03 | 10 | 11.68 | 32.69 | 6.04 | 24.88 | 309.3 | .031 |
| 20 | 11.69 | | 6.09 | 20 | 11.69 | 32.68 | 6.09 | 24.88 | 309.8 | .062 |
| 30 | 11.72 | 32.686 | 5.99 | 30 | 11.72 | 32.69 | 5.99 | 24.87 | 310.0 | .093 |
| 50 | 11.81 | 32.711 | 5.99 | 50 | 11.81 | 32.72 | 5.99 | 24.88 | 310.1 | .155 |
| 76 | 11.83 | 32.736 | 6.01 | 75 | 11.83 | 32.73 | 6.01 | 24.89 | 309.8 | .232 |
| 103 | 9.15 | 33.312 | 4.77 | 100 | 9.48 | 33.24 | 4.93 | 25.69 | 233.5 | .300 |
| 152 | 8.09 | 33.789 | 3.37 | 150 | 8.13 | 33.78 | 3.41 | 26.32 | 174.0 | .402 |
| 204 | 7.21 | 33.938 | 2.77 | 200 | 7.27 | 33.93 | 2.80 | 26.57 | 151.2 | .483 |
| 304 | 6.01 | 33.988 | 1.82 | 250 | 6.58 | 33.98 | 2.30 | 26.70 | 139.0 | .556 |
| 407 | 5.40 | 34.050 | 1.20 | 300 | 6.05 | 34.00 | 1.85 | 26.78 | 132.0 | .624 |
| 511 | 4.90 | 34.108 | .79 | 400 | 5.43 | 34.05 | 1.23 | 26.90 | 122.0 | .751 |
| 611 | 4.53 | 34.177 | | 500 | 4.95 | 34.12 | .83 | 27.01 | 111.2 | .867 |
| 812 | 3.90 | 34.319 | .32 | 600 | 4.57 | 34.17 | .56 | 27.09 | 104.4 | .975 |
| 1006 | 3.46 | 34.437 | .34 | 700 | 4.23 | 34.24 | .40 | 27.18 | 96.2 | 1.075 |
| | | | | 800 | 3.93 | 34.31 | .32 | 27.27 | 88.1 | 1.167 |
| | | | | 1000 | 3.47 | 34.43 | .34 | 27.42 | 75.3 | 1.331 |

CH 125 43 20.4 N 127 13.2 W DATE 29 DEC 62 0403 GCT WIRE - DRY 54.8 WET 51.0
WIND DIRECTION 18 VEL 28 KTS BAR 13 SWELL DIRECTION 18 H 10 T 7 CLOUD 0 AMT 10 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.74 | 32.624 | | 0 | 11.74 | 32.63 | 0 | 24.82 | 314.3 | 0 |
| 10 | 11.74 | 32.629 | 5.97 | 10 | 11.74 | 32.63 | 5.97 | 24.83 | 314.2 | .031 |
| 30 | 11.75 | 32.632 | 5.89 | 20 | 11.75 | 32.63 | 6.02 | 24.82 | 314.6 | .063 |
| 50 | 11.40 | 32.971 | 5.63 | 30 | 11.75 | 32.64 | 5.90 | 24.83 | 314.5 | .094 |
| 77 | 8.93 | 33.344 | 4.61 | 50 | 11.40 | 32.98 | 5.64 | 25.15 | 283.8 | .154 |
| 104 | 8.42 | 33.730 | 3.63 | 75 | 9.12 | 33.32 | 4.70 | 25.81 | 221.7 | .217 |
| 153 | 7.94 | 33.902 | 2.77 | 100 | 8.43 | 33.68 | 3.76 | 26.20 | 185.0 | .268 |
| 207 | 7.56 | 33.985 | 2.15 | 150 | 7.96 | 33.89 | 2.80 | 26.44 | 163.3 | .355 |
| 308 | 6.68 | 34.039 | 1.75 | 200 | 7.60 | 33.98 | 2.21 | 26.56 | 152.6 | .434 |
| 413 | 6.11 | 34.073 | 1.25 | 250 | 7.27 | 34.02 | 1.92 | 26.63 | 145.9 | .509 |
| 518 | 5.43 | 34.126 | .77 | 300 | 6.93 | 34.04 | 1.77 | 26.70 | 140.5 | .580 |
| 620 | 4.95 | 34.201 | .50 | 400 | 6.20 | 34.07 | 1.31 | 26.82 | 130.1 | .716 |
| | | | | 500 | 5.54 | 34.12 | .84 | 26.94 | 118.8 | .840 |
| | | | | 600 | 5.03 | 34.18 | .54 | 27.05 | 109.0 | .954 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH 15 44 32.8 N 124 19.2 W DATE 13 JAN 63 2346 GCT WIRE 00 DRY 47.0 WET 45.0
WIND DIRECTION 14 VEL 8 KTS BAR 32 SWELL DIRECTION 31 H 4 T 6 CLOUD 16 AMT 8 WEATHER 3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.00 | 32.398 | 0 | 10.00 | 32.40 | | 24.95 | 302.0 | 0 |
| 10 | 10.01 | 32.406 | 10 | 10.01 | 32.41 | | 24.96 | 301.7 | .030 |
| 25 | 9.77 | 32.534 | 20 | 9.87 | 32.45 | | 25.01 | 296.4 | .060 |
| 40 | 9.47 | 33.191 | 30 | 9.71 | 32.75 | | 25.27 | 272.4 | .089 |
| 50 | 8.93 | 33.409 | 50 | 8.93 | 33.41 | | 25.91 | 211.4 | .137 |
| 65 | 8.63 | 33.540 | 75 | 8.67 | 33.55 | | 26.06 | 197.9 | .188 |
| 75 | 8.67 | 33.544 | | | | | | | |

NHS 30 44 21.9 N 124 48.2 W DATE 13 JAN 63 2155 GCT WIRE 02 DRY 52.0 WET 45.6
WIND DIRECTION 3 VEL 8 KTS BAR 32 SWELL DIRECTION 31 H 2 T 5 CLOUD 6 AMT 9 WEATHER 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.37 | 32.489 | 0 | 10.38 | 32.49 | | 24.96 | 301.2 | 0 |
| 30 | 10.45 | 32.528 | 10 | 10.42 | 32.38 | | 24.86 | 310.6 | .031 |
| 65 | 10.32 | 32.790 | 20 | 10.44 | 32.45 | | 24.92 | 305.7 | .061 |
| 75 | 9.57 | 33.234 | 30 | 10.45 | 32.53 | | 24.98 | 300.1 | .092 |
| 100 | 8.90 | 33.670 | 50 | 10.38 | 32.54 | | 25.00 | 298.6 | .152 |
| 110 | 8.73 | 33.799 | 75 | 9.57 | 33.24 | | 25.67 | 234.6 | .218 |
| 125 | 8.45 | 33.804 | 100 | 8.90 | 33.67 | | 26.12 | 192.4 | .272 |
| 150 | 7.88 | 33.889 | 150 | 7.89 | 33.89 | | 26.45 | 162.0 | .360 |
| 175 | 7.51 | 33.946 | 200 | 7.23 | 33.97 | | 26.60 | 148.2 | .438 |
| 200 | 7.23 | 33.968 | | | | | | | |

NH 25 44 32.5 N 124 28.6 W DATE 12 JAN 63 1945 GCT WIRE 05 DRY 38.0 WET 36.0
WIND DIRECTION 7 VEL 16 KTS BAR 35 SWELL DIRECTION 1 H 1 T -- CLOUD 1 AMT 1 WEATHER 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.30 | 32.377 | 0 | 10.30 | 32.38 | | 24.89 | 308.4 | 0 |
| 30 | 10.32 | 32.394 | 10 | 10.27 | 32.38 | | 24.89 | 308.1 | .031 |
| 50 | 10.37 | 32.408 | 20 | 10.29 | 32.39 | | 24.89 | 308.2 | .062 |
| 70 | 9.83 | 33.009 | 30 | 10.32 | 32.40 | | 24.90 | 307.9 | .092 |
| 85 | 9.24 | 33.225 | 50 | 10.38 | 32.41 | | 24.90 | 308.0 | .154 |
| 100 | 8.89 | 33.530 | 75 | 9.63 | 33.09 | | 25.55 | 246.7 | .223 |
| 125 | 8.39 | 33.774 | 100 | 8.89 | 33.54 | | 26.01 | 202.6 | .279 |
| 150 | 8.07 | 33.870 | 150 | 8.07 | 33.88 | | 26.41 | 166.1 | .372 |
| 200 | 7.61 | 33.926 | 200 | 7.61 | 33.93 | | 26.51 | 156.5 | .452 |

NH 35 44 32.0 N 124 51.4 W DATE 13 JAN 63 0235 GCT WIRE 08 DRY 43.7 WET 39.0
WIND DIRECTION 35 VEL 20 KTS BAR 34 SWELL DIRECTION 35 H 2 T 7 CLOUD 1 AMT 1 WEATHER 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.51 | 32.533 | 0 | 10.51 | 32.54 | | 24.97 | 300.2 | 0 |
| 29 | 10.53 | 32.535 | 10 | 10.52 | 32.54 | | 24.97 | 300.7 | .030 |
| 49 | 10.54 | 32.535 | 20 | 10.53 | 32.54 | | 24.97 | 301.0 | .060 |
| 69 | 10.05 | 33.033 | 30 | 10.54 | 32.54 | | 24.97 | 301.3 | .090 |
| 78 | 9.58 | 33.205 | 50 | 10.53 | 32.55 | | 24.98 | 300.3 | .150 |
| 88 | 9.33 | 33.466 | 75 | 9.73 | 33.21 | | 25.63 | 239.1 | .218 |
| 98 | 8.99 | 33.548 | 100 | 8.95 | 33.56 | | 26.03 | 201.6 | .273 |
| 123 | 8.67 | 33.668 | 150 | 8.36 | 33.80 | | 26.30 | 175.9 | .367 |
| 148 | 8.38 | 33.790 | 200 | 7.74 | 33.92 | | 26.49 | 158.5 | .451 |
| 198 | 7.76 | 33.918 | | | | | | | |

NHN 25 44 41.8 N 124 41.0 W DATE 13 JAN 63 1642 GCT WIRE 00 DRY 46.0 WET 42.0
WIND DIRECTION 3 VEL 8 KTS BAR 34 SWELL DIRECTION 30 H 1 T -- CLOUD 6 AMT 9 WEATHER 3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.19 | 32.363 | 0 | 10.19 | 32.37 | | 24.89 | 307.6 | 0 |
| 30 | 10.19 | 32.357 | 10 | 9.83 | 32.21 | | 24.83 | 313.5 | .031 |
| 50 | 10.55 | 32.501 | 20 | 10.01 | 32.28 | | 24.86 | 311.2 | .062 |
| 75 | 9.37 | 33.057 | 30 | 10.19 | 32.36 | | 24.89 | 308.6 | .093 |
| 80 | 8.99 | 33.167 | 50 | 10.55 | 32.51 | | 24.94 | 304.1 | .155 |
| 85 | 9.03 | 33.307 | 75 | 9.38 | 33.06 | | 25.57 | 244.6 | .223 |
| 100 | 8.81 | 33.572 | 100 | 8.81 | 33.58 | | 26.06 | 198.3 | .278 |
| 130 | 8.21 | 33.709 | 150 | 7.90 | 33.88 | | 26.44 | 163.2 | .369 |
| 160 | 7.76 | 33.904 | 200 | 7.30 | 33.93 | | 26.57 | 151.6 | .447 |
| 200 | 7.30 | 33.935 | | | | | | | |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 005 | 44 39.[illegible] N | 124 [illegible] W | | | DATE 21 FEB 63 2200 GCT | | | WIRE 00 | DRY 53.0 | WET 51.5 | | |
| WIND DIRECTION 19 VEL 07 KTS | | | BAR 27 SWELL DIRECTION 23 H 04 T 10 CLOUD 06 AMT 09 WEATHER | | | | | | | | | |
| 0 | 11.22 | 32.011 | 6.23 | | 0 | 11.22 | 32.02 | 6.23 | | 24.44 | 350.6 | 0 |
| 10 | 10.54 | 32.705 | 6.11 | | 10 | 10.54 | 32.71 | 6.11 | | 25.10 | 288.2 | .032 |
| 20 | 10.42 | 32.820 | 6.07 | | 20 | 10.42 | 32.83 | 6.07 | | 25.21 | 277.9 | .060 |
| 30 | 10.35 | 32.878 | 6.16 | | 30 | 10.35 | 32.88 | 6.17 | | 25.27 | 272.6 | .088 |
| 40 | 10.32 | 32.930 | 6.13 | | 50 | 10.19 | 32.96 | 6.10 | | 25.35 | 264.8 | .141 |
| 50 | 10.19 | 32.953 | 6.10 | | | | | | | | | |
| NH 015 | 44 39.1 N | 124 24.7 W | | | DATE 22 FEB 63 0020 GCT | | | WIRE 00 | DRY 53.1 | WET 51.0 | | |
| WIND DIRECTION 19 VEL 03 KTS | | | BAR 27 SWELL DIRECTION 23 H 04 T 10 CLOUD 06 AMT 09 WEATHER 02 | | | | | | | | | |
| 0 | 10.47 | 32.614 | 6.41 | | 0 | 10.47 | 32.62 | 6.42 | | 25.04 | 293.6 | 0 |
| 10 | 10.29 | 32.619 | 6.46 | | 10 | 10.29 | 32.62 | 6.46 | | 25.08 | 290.5 | .029 |
| 20 | 10.26 | 32.683 | 6.33 | | 20 | 10.26 | 32.69 | 6.33 | | 25.13 | 285.4 | .058 |
| 30 | 10.25 | 32.726 | 6.36 | | 30 | 10.25 | 32.73 | 6.36 | | 25.17 | 282.2 | .086 |
| 50 | 10.13 | 33.019 | 5.96 | | 50 | 10.13 | 33.02 | 5.96 | | 25.41 | 259.0 | .140 |
| 75 | 9.85 | 33.137 | 5.67 | | 75 | 9.85 | 33.14 | 5.68 | | 25.55 | 246.2 | .204 |
| NH 025 | 44 39.1 N | 124 38.7 W | | | DATE 22 FEB 63 0405 GCT | | | WIRE 00 | DRY 51.5 | WET 50.0 | | |
| WIND DIRECTION C VEL 00 KTS | | | BAR 28 SWELL DIRECTION 25 H 06 T 08 CLOUD - AMT 02 WEATHER 01 | | | | | | | | | |
| 0 | 10.46 | 32.689 | 6.35 | | 0 | 10.46 | 32.69 | 6.35 | | 25.10 | 287.9 | 0 |
| 10 | 10.27 | 32.685 | 6.34 | | 10 | 10.27 | 32.69 | 6.34 | | 25.13 | 285.2 | .029 |
| 20 | 10.20 | 32.689 | 6.23 | | 20 | 10.20 | 32.69 | 6.23 | | 25.15 | 284.0 | .057 |
| 30 | 10.18 | 32.696 | 6.22 | | 30 | 10.18 | 32.70 | 6.22 | | 25.15 | 283.3 | .085 |
| 49 | 9.91 | 32.937 | 5.63 | | 50 | 9.89 | 32.96 | 5.58 | | 25.40 | 260.1 | .140 |
| 75 | 9.40 | 33.409 | 4.34 | | 75 | 9.40 | 33.41 | 4.34 | | 25.84 | 219.0 | .200 |
| 101 | 9.05 | 33.630 | 3.78 | | 100 | 9.06 | 33.62 | 3.79 | | 26.06 | 198.5 | .252 |
| 152 | 8.64 | 33.831 | 2.91 | | 150 | 8.66 | 33.83 | 2.94 | | 26.28 | 178.3 | .346 |
| 194 | 7.81 | 33.949 | 2.53 | | | | | | | | | |
| NH 035 | 44 39.3 N | 124 52.9 W | | | DATE 22 FEB 63 0700 GCT | | | WIRE 10 | DRY 51.0 | WET 50.5 | | |
| WIND DIRECTION C VEL 00 KTS | | | BAR 29 SWELL DIRECTION 24 H 06 T 07 CLOUD 06 AMT - WEATHER 02 | | | | | | | | | |
| 0 | 10.43 | 32.684 | 6.33 | | 0 | 10.43 | 32.69 | 6.33 | | 25.10 | 287.7 | 0 |
| 10 | 10.32 | 32.672 | 6.43 | | 10 | 10.32 | 32.68 | 6.44 | | 25.11 | 287.0 | .029 |
| 20 | 10.26 | 32.697 | 6.23 | | 20 | 10.26 | 32.70 | 6.23 | | 25.14 | 284.4 | .057 |
| 30 | 10.13 | 32.765 | 6.24 | | 30 | 10.13 | 32.77 | 6.24 | | 25.22 | 277.4 | .085 |
| 50 | 9.50 | 33.134 | 5.47 | | 50 | 9.50 | 33.13 | 5.47 | | 25.60 | 241.2 | .137 |
| 76 | 9.18 | 33.551 | 4.24 | | 75 | 9.19 | 33.54 | 4.29 | | 25.97 | 206.6 | .193 |
| 103 | 8.74 | 33.816 | 3.06 | | 100 | 8.79 | 33.79 | 3.17 | | 26.23 | 181.8 | .242 |
| 158 | 8.17 | 33.962 | 2.49 | | 150 | 8.23 | 33.96 | 2.57 | | 26.45 | 162.0 | .328 |
| 209 | 7.90 | 33.994 | 2.30 | | 200 | 7.93 | 33.99 | 2.31 | | 26.52 | 156.5 | .407 |
| NH 045 | 44 39.2 N | 125 7.0 W | | | DATE 22 FEB 63 0900 GCT | | | WIRE 12 | DRY 52.0 | WET 49.4 | | |
| WIND DIRECTION C VEL 00 KTS | | | BAR 28 SWELL DIRECTION 23 H 03 T 07 CLOUD 06 AMT 06 WEATHER 02 | | | | | | | | | |
| 0 | 10.46 | 32.625 | 6.46 | | 0 | 10.46 | 32.63 | 6.46 | | 25.06 | 292.6 | 0 |
| 10 | 10.35 | 32.628 | 6.46 | | 10 | 10.35 | 32.63 | 6.46 | | 25.07 | 290.8 | .029 |
| 20 | 10.27 | 32.629 | 6.47 | | 20 | 10.27 | 32.63 | 6.47 | | 25.09 | 289.6 | .058 |
| 30 | 10.22 | 32.634 | 6.08 | | 30 | 10.22 | 32.64 | 6.08 | | 25.10 | 288.6 | .087 |
| 50 | 10.03 | 32.685 | 6.23 | | 50 | 10.03 | 32.69 | 6.23 | | 25.17 | 282.1 | .144 |
| 78 | 9.18 | 33.401 | 4.36 | | 75 | 9.28 | 33.40 | 4.60 | | 25.85 | 218.3 | .207 |
| 104 | 8.65 | 33.746 | 3.13 | | 100 | 8.72 | 33.72 | 3.29 | | 26.19 | 185.9 | .257 |
| 207 | 7.82 | 33.985 | 2.35 | | 150 | 8.23 | 33.95 | 2.78 | | 26.44 | 162.8 | .344 |
| 153 | 8.41 | 33.902 | 2.56 | | 200 | 7.86 | 33.97 | 2.40 | | 26.51 | 157.0 | .424 |
| 306 | 6.70 | 34.017 | 2.05 | | 250 | 7.33 | 34.00 | 2.25 | | 26.61 | 147.7 | .500 |
| 407 | 5.64 | 34.041 | 1.46 | | 300 | 6.77 | 34.02 | 2.07 | | 26.70 | 139.8 | .572 |
| 510 | 5.21 | 34.135 | .69 | | 400 | 5.70 | 34.04 | 1.50 | | 26.86 | 126.0 | .705 |
| 612 | 4.59 | 34.237 | .59 | | 500 | 5.24 | 34.12 | .94 | | 26.98 | 114.5 | .825 |
| | | | | | 600 | 4.67 | 34.22 | .54 | | 27.12 | 101.8 | .933 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 105 44 39.1 N 124 31.0 W DATE 22 FEB 63 2315 GCT WIRE 02 DRY 51.1 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 00 KTS BAR 29 SWELL DIRECTION 25 H 05 T 10 CLOUD 09 AMT 09 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.64 | 32.581 | 6.27 | | 0 | 10.64 | 32.59 | 6.28 | | 24.99 | 298.8 | 0 |
| 10 | 10.46 | 32.580 | 6.38 | | 10 | 10.46 | 32.58 | 6.39 | | 25.02 | 296.1 | .030 |
| 20 | 10.43 | 32.578 | 6.30 | | 20 | 10.43 | 32.58 | 6.31 | | 25.02 | 295.9 | .059 |
| 30 | 10.41 | 32.578 | 6.30 | | 30 | 10.41 | 32.58 | 6.31 | | 25.02 | 295.8 | .089 |
| 50 | 10.26 | 32.590 | 6.16 | | 50 | 10.26 | 32.59 | 6.17 | | 25.06 | 292.8 | .148 |
| 78 | 9.78 | 32.692 | 5.86 | | 75 | 9.87 | 32.66 | 5.92 | | 25.17 | 282.3 | .220 |
| 106 | 8.21 | 33.302 | 4.41 | | 100 | 8.55 | 33.22 | 4.75 | | 25.82 | 220.9 | .283 |
| 160 | 7.94 | 33.858 | 2.90 | | 150 | 7.99 | 33.83 | 3.09 | | 26.38 | 168.4 | .380 |
| 210 | 7.28 | 33.952 | 2.12 | | 200 | 7.43 | 33.95 | 2.23 | | 26.56 | 152.3 | .460 |
| 312 | 6.13 | 34.005 | 1.88 | | 250 | 6.79 | 33.98 | 1.94 | | 26.67 | 141.8 | .534 |
| 414 | 5.31 | 34.049 | 1.23 | | 300 | 6.25 | 34.00 | 1.91 | | 26.76 | 134.0 | .602 |
| 516 | 4.87 | 34.146 | .72 | | 400 | 5.46 | 34.04 | 1.33 | | 26.90 | 122.0 | .730 |
| 617 | 4.43 | 34.216 | .53 | | 500 | 4.93 | 34.13 | .78 | | 27.02 | 110.2 | .847 |
| 819 | 4.03 | 34.333 | .35 | | 600 | 4.50 | 34.21 | .55 | | 27.13 | 101.1 | .952 |
| 1019 | 3.49 | 34.424 | .49 | | 700 | 4.24 | 34.27 | .42 | | 27.21 | 94.1 | 1.050 |
| | | | | | 800 | 4.06 | 34.32 | .35 | | 27.27 | 88.6 | 1.141 |
| | | | | | 1000 | 3.55 | 34.42 | .46 | | 27.39 | 77.5 | 1.307 |
| NH 125 44 39.2 N 126 59.0 W DATE 23 FEB 63 0410 GCT WIRE 00 DRY 48.0 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 00 KTS BAR 30 SWELL DIRECTION 25 H 05 T 09 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.58 | 32.551 | 6.34 | | 0 | 10.58 | 32.56 | 6.34 | | 24.97 | 300.0 | 0 |
| 10 | 10.29 | 32.551 | 6.49 | | 10 | 10.29 | 32.56 | 6.49 | | 25.02 | 295.5 | .030 |
| 20 | 10.24 | 32.552 | 6.37 | | 20 | 10.24 | 32.56 | 6.38 | | 25.03 | 294.8 | .059 |
| 30 | 10.22 | 32.553 | 6.35 | | 30 | 10.22 | 32.56 | 6.35 | | 25.04 | 294.5 | .089 |
| 50 | 10.18 | 32.553 | 6.31 | | 50 | 10.18 | 32.56 | 6.32 | | 25.04 | 294.2 | .148 |
| 78 | 9.95 | 32.566 | 6.20 | | 75 | 10.00 | 32.56 | 6.25 | | 25.08 | 291.3 | .221 |
| 106 | 8.71 | 33.273 | 4.55 | | 100 | 9.00 | 33.10 | 4.94 | | 25.66 | 236.2 | .287 |
| 160 | 7.38 | 33.828 | 3.51 | | 150 | 7.55 | 33.78 | 3.57 | | 26.41 | 166.5 | .387 |
| 210 | 6.81 | 33.916 | 3.07 | | 200 | 6.89 | 33.92 | 3.14 | | 26.61 | 147.5 | .465 |
| 312 | 5.93 | 34.001 | 1.96 | | 250 | 6.43 | 33.96 | 2.64 | | 26.78 | 134.1 | .537 |
| 413 | 5.23 | 34.076 | 1.08 | | 300 | 6.02 | 33.99 | 2.09 | | 26.88 | 131.8 | .605 |
| 515 | 4.99 | 34.175 | .64 | | 400 | 5.30 | 34.07 | 1.17 | | 26.93 | 119.0 | .730 |
| 616 | 4.57 | 34.233 | .45 | | 500 | 5.02 | 34.16 | .68 | | 27.04 | 109.0 | .844 |
| 812 | 3.82 | 34.321 | .34 | | 600 | 4.64 | 34.23 | .47 | | 27.13 | 101.3 | .949 |
| 996 | 3.43 | 34.409 | .34 | | 700 | 4.22 | 34.27 | .38 | | 27.21 | 93.6 | 1.046 |
| | | | | | 800 | 3.86 | 34.32 | .34 | | 27.28 | 86.8 | 1.137 |
| | | | | | 1000 | 3.42 | 34.41 | .34 | | 27.40 | 76.4 | 1.300 |
| NH 145 44 39.1 N 127 27.0 W DATE 23 FEB 63 0817 GCT WIRE 02 DRY 51.0 WET 49.8 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 00 KTS BAR 27 SWELL DIRECTION 25 H 04 T 10 CLOUD - AMT - WEATHER 00 | | | | | | | | | | | | |
| 0 | 10.85 | 32.666 | 6.24 | | 0 | 10.85 | 32.67 | 6.24 | | 25.02 | 296.0 | 0 |
| 10 | 10.84 | 32.668 | 6.34 | | 10 | 10.84 | 32.67 | 6.34 | | 25.02 | 296.2 | .030 |
| 20 | 10.79 | 32.668 | 6.34 | | 20 | 10.79 | 32.67 | 6.34 | | 25.03 | 295.2 | .059 |
| 30 | 10.78 | 32.667 | 6.24 | | 30 | 10.78 | 32.67 | 6.24 | | 25.03 | 295.3 | .089 |
| 50 | 10.72 | 32.665 | 6.13 | | 50 | 10.72 | 32.67 | 6.14 | | 25.04 | 294.8 | .148 |
| 77 | 10.63 | 32.702 | 6.04 | | 75 | 10.66 | 32.69 | 6.06 | | 25.07 | 292.6 | .221 |
| 104 | 9.14 | 33.123 | 5.09 | | 100 | 9.39 | 33.05 | 5.25 | | 25.56 | 245.9 | .288 |
| 158 | 7.73 | 33.635 | 4.16 | | 150 | 7.85 | 33.58 | 4.25 | | 26.21 | 184.7 | .396 |
| 208 | 7.15 | 33.891 | 3.55 | | 200 | 7.22 | 33.86 | 3.64 | | 26.52 | 155.9 | .481 |
| 309 | 5.77 | 33.950 | 2.34 | | 250 | 6.56 | 33.92 | 3.03 | | 26.65 | 143.9 | .556 |
| 411 | 4.92 | 34.023 | 1.42 | | 300 | 5.89 | 33.94 | 2.44 | | 26.76 | 133.8 | .625 |
| 513 | 4.51 | 34.073 | .98 | | 400 | 4.99 | 34.02 | 1.50 | | 26.92 | 119.1 | .752 |
| 615 | 4.20 | 34.106 | .54 | | 500 | 4.55 | 34.07 | 1.02 | | 27.01 | 110.6 | .867 |
| 817 | 3.80 | 34.361 | .35 | | 600 | 4.24 | 34.18 | .60 | | 27.13 | 100.3 | .972 |
| 1017 | 3.35 | 34.434 | .33 | | 700 | 4.02 | 34.27 | .39 | | 27.23 | 91.5 | 1.068 |
| | | | | | 800 | 3.83 | 34.33 | .37 | | 27.30 | 85.3 | 1.156 |
| | | | | | 1000 | 3.39 | 34.43 | .33 | | 27.42 | 74.8 | 1.316 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| ANH173 46 42.7 N 128 1.5 W DATE 23 FEB 63 2250 GCT WIRE 00 DRY 49.7 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 07 KTS BAR 26 SWELL DIRECTION 26 H 10 T 10 CLOUD 00 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 10.18 | 32.530 | 6.38 | | 0 | 10.18 | 32.53 | 6.39 | | 25.03 | 295.1 | 0 |
| 10 | 10.13 | 32.526 | 6.38 | | 10 | 10.13 | 32.53 | 6.39 | | 25.03 | 294.8 | .029 |
| 20 | 10.12 | 32.531 | 6.36 | | 20 | 10.13 | 32.54 | 6.36 | | 25.04 | 294.4 | .059 |
| 30 | 10.12 | 32.527 | 6.38 | | 30 | 10.13 | 32.53 | 6.39 | | 25.03 | 294.9 | .088 |
| 50 | 10.07 | 32.530 | 6.31 | | 50 | 10.07 | 32.54 | 6.32 | | 25.05 | 293.5 | .147 |
| 105 | 9.05 | 32.776 | 5.87 | | 75 | 9.73 | 32.68 | 6.22 | | 25.14 | 285.4 | .220 |
| 159 | 7.42 | 33.691 | 4.13 | | 100 | 9.18 | 32.73 | 5.95 | | 25.34 | 266.4 | .289 |
| 210 | 7.11 | 33.939 | 2.85 | | 150 | 7.67 | 33.54 | 4.45 | | 26.20 | 185.3 | .401 |
| 311 | 5.93 | 34.003 | 2.08 | | 200 | 7.13 | 33.92 | 3.06 | | 26.58 | 150.4 | .485 |
| 413 | 5.24 | 34.073 | 1.10 | | 250 | 6.66 | 34.00 | 2.42 | | 26.70 | 139.0 | .558 |
| 515 | 4.73 | 34.129 | .67 | | 300 | 6.06 | 34.00 | 2.11 | | 26.78 | 132.2 | .625 |
| 617 | 4.38 | 34.217 | .47 | | 400 | 5.31 | 34.06 | 1.22 | | 26.92 | 119.2 | .751 |
| 819 | 3.95 | 34.348 | .29 | | 500 | 4.79 | 34.12 | .71 | | 27.03 | 109.4 | .865 |
| 1019 | 3.47 | 34.414 | .41 | | 600 | 4.43 | 34.20 | .49 | | 27.13 | 100.6 | .970 |
| | | | | | 700 | 4.19 | 34.28 | .36 | | 27.22 | 92.7 | 1.067 |
| | | | | | 800 | 3.98 | 34.34 | .29 | | 27.29 | 86.6 | 1.157 |
| | | | | | 1000 | 3.52 | 34.41 | .39 | | 27.39 | 77.6 | 1.321 |
| AH 145 46 14.4 N 127 35.0 W DATE 24 FEB 63 0829 GCT WIRE - DRY 50.0 WET 49.2 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 07 KTS BAR 24 SWELL DIRECTION 26 H 05 T 10 CLOUD 00 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 10.11 | 32.553 | 6.31 | | 0 | 10.11 | 32.56 | 6.32 | | 25.05 | 292.3 | 0 |
| 10 | 10.14 | 32.534 | 6.44 | | 10 | 10.14 | 32.54 | 6.44 | | 25.03 | 294.3 | .029 |
| 20 | 9.99 | 32.531 | 6.30 | | 20 | 9.99 | 32.54 | 6.31 | | 25.06 | 292.3 | .059 |
| 30 | 9.96 | 32.530 | 6.38 | | 30 | 9.96 | 32.53 | 6.39 | | 25.06 | 292.1 | .088 |
| 50 | 9.86 | 32.550 | 6.13 | | 50 | 9.86 | 32.55 | 6.14 | | 25.09 | 289.4 | .146 |
| 77 | 9.63 | 32.578 | 6.17 | | 75 | 9.67 | 32.57 | 6.17 | | 25.14 | 285.5 | .218 |
| 105 | 8.36 | 32.962 | 5.34 | | 100 | 8.60 | 32.88 | 5.52 | | 25.55 | 246.9 | .284 |
| 159 | 7.53 | 33.708 | 3.79 | | 150 | 7.58 | 33.60 | 4.03 | | 26.26 | 179.5 | .391 |
| 210 | 7.07 | 33.929 | 2.86 | | 200 | 7.15 | 33.91 | 3.01 | | 26.57 | 151.4 | .474 |
| 311 | 5.92 | 33.982 | 2.10 | | 250 | 6.61 | 33.98 | 2.48 | | 26.69 | 139.7 | .546 |
| 412 | 5.20 | 34.052 | 1.21 | | 300 | 6.04 | 33.98 | 2.15 | | 26.77 | 133.4 | .615 |
| 515 | 4.85 | 34.127 | .75 | | 400 | 5.26 | 34.04 | 1.31 | | 26.91 | 120.3 | .741 |
| 617 | 4.45 | 34.208 | .53 | | 500 | 4.89 | 34.12 | .80 | | 27.01 | 110.9 | .857 |
| 819 | 3.98 | 34.344 | .40 | | 600 | 4.51 | 34.19 | .55 | | 27.12 | 102.1 | .963 |
| 1019 | 3.51 | 34.426 | .39 | | 700 | 4.23 | 34.27 | .44 | | 27.21 | 93.9 | 1.061 |
| | | | | | 800 | 4.02 | 34.33 | .40 | | 27.28 | 87.4 | 1.152 |
| | | | | | 1000 | 3.55 | 34.42 | .39 | | 27.40 | 77.3 | 1.316 |
| AH 125 46 14.4 N 127 6.2 W DATE 24 FEB 63 1225 GCT WIRE 07 DRY 49.1 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 13 KTS BAR 23 SWELL DIRECTION 26 H 04 T 10 CLOUD 00 AMT 03 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.79 | 32.525 | 6.34 | | 0 | 9.79 | 32.53 | 6.34 | | 25.09 | 289.3 | 0 |
| 10 | 9.80 | 32.522 | 6.38 | | 10 | 9.80 | 32.53 | 6.39 | | 25.08 | 289.9 | .029 |
| 20 | 9.78 | 32.518 | 6.34 | | 20 | 9.78 | 32.52 | 6.34 | | 25.08 | 290.0 | .058 |
| 30 | 9.71 | 32.515 | 6.34 | | 30 | 9.71 | 32.52 | 6.34 | | 25.09 | 289.3 | .087 |
| 50 | 9.60 | 32.527 | 6.34 | | 50 | 9.60 | 32.53 | 6.34 | | 25.12 | 287.0 | .145 |
| 77 | 8.84 | 32.722 | 5.75 | | 75 | 8.91 | 32.70 | 5.82 | | 25.36 | 264.7 | .213 |
| 103 | 7.92 | 33.331 | 4.34 | | 100 | 8.02 | 33.26 | 4.51 | | 25.93 | 210.5 | .273 |
| 156 | 7.74 | 33.824 | 2.93 | | 150 | 7.76 | 33.80 | 3.02 | | 26.40 | 167.0 | .367 |
| 203 | 7.23 | 33.932 | 2.44 | | 200 | 7.27 | 33.93 | 2.46 | | 26.57 | 151.5 | .447 |
| 299 | 6.14 | 33.989 | 2.10 | | 250 | 6.67 | 33.97 | 2.25 | | 26.68 | 141.0 | .520 |
| 393 | 5.53 | 34.052 | 1.24 | | 300 | 6.13 | 33.99 | 2.09 | | 26.76 | 133.6 | .588 |
| 485 | 4.97 | 34.095 | .90 | | 400 | 5.48 | 34.05 | 1.20 | | 26.90 | 122.0 | .716 |
| 575 | 4.67 | 34.170 | .62 | | 500 | 4.91 | 34.11 | .85 | | 27.00 | 111.8 | .833 |
| 752 | 4.09 | 34.277 | .32 | | 600 | 4.59 | 34.19 | .56 | | 27.11 | 103.4 | .941 |
| | | | | | 700 | 4.26 | 34.25 | .37 | | 27.19 | 95.6 | 1.040 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 105 46 14.6 N 126 37.5 W DATE 24 FEB 63 1610 GCT WIRE - DRY 49.5 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 10 KTS BAR 24 SWELL DIRECTION 25 H 04 T 10 CLOUD 00 AMT 06 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.92 | 32.532 | 6.38 | | 0 | 9.92 | 32.54 | 6.39 | | 25.07 | 290.8 | 0 |
| 10 | 9.93 | 32.539 | 6.38 | | 10 | 9.93 | 32.54 | 6.39 | | 25.07 | 290.6 | .029 |
| 20 | 9.91 | 32.549 | 6.34 | | 20 | 9.91 | 32.55 | 6.34 | | 25.08 | 289.7 | .058 |
| 30 | 9.85 | 32.529 | 6.37 | | 30 | 9.85 | 32.53 | 6.38 | | 25.08 | 290.4 | .087 |
| 49 | 9.81 | 32.533 | 6.31 | | 50 | 9.79 | 32.55 | 6.27 | | 25.10 | 288.8 | .145 |
| 76 | 8.97 | 33.023 | 4.91 | | 75 | 9.01 | 33.00 | 4.97 | | 25.58 | 243.6 | .212 |
| 104 | 8.16 | 33.569 | 3.63 | | 100 | 8.26 | 33.50 | 3.79 | | 26.08 | 196.0 | .266 |
| 157 | 7.70 | 33.880 | 2.69 | | 150 | 7.72 | 33.87 | 2.74 | | 26.46 | 161.3 | .356 |
| 207 | 7.24 | 33.952 | 2.49 | | 200 | 7.30 | 33.95 | 2.50 | | 26.58 | 150.6 | .434 |
| 307 | 6.44 | 33.996 | 1.96 | | 250 | 6.88 | 33.98 | 2.28 | | 26.66 | 143.3 | .507 |
| 407 | 5.77 | 34.040 | 1.36 | | 300 | 6.49 | 34.00 | 2.00 | | 26.72 | 137.8 | .577 |
| 508 | 5.18 | 34.112 | .88 | | 400 | 5.81 | 34.04 | 1.40 | | 26.84 | 127.5 | .710 |
| 608 | 4.74 | 34.186 | .57 | | 500 | 5.22 | 34.11 | .91 | | 26.97 | 115.6 | .832 |
| 809 | 4.12 | 34.299 | .33 | | 600 | 4.77 | 34.18 | .59 | | 27.08 | 106.2 | .942 |
| 913 | 3.69 | 34.365 | .32 | | 700 | 4.45 | 34.24 | .41 | | 27.16 | 98.7 | 1.045 |
| 1007 | 3.60 | 34.409 | .39 | | 800 | 4.15 | 34.29 | .33 | | 27.24 | 91.8 | 1.140 |
| | | | | | 1000 | 3.61 | 34.41 | .38 | | 27.38 | 78.9 | 1.311 |
| AH 085 46 14.4 N 126 9.0 W DATE 24 FEB 63 2030 GCT WIRE 06 DRY 50.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 04 KTS BAR 23 SWELL DIRECTION 23 H 04 T 09 CLOUD 00 AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 9.50 | 32.403 | 6.35 | | 0 | 9.50 | 32.41 | 6.35 | | 25.04 | 293.9 | 0 |
| 10 | 9.48 | 32.404 | 6.53 | | 10 | 9.48 | 32.41 | 6.54 | | 25.04 | 293.6 | .029 |
| 20 | 9.42 | 32.406 | 6.38 | | 20 | 9.42 | 32.41 | 6.39 | | 25.05 | 292.7 | .059 |
| 30 | 9.37 | 32.411 | 6.31 | | 30 | 9.38 | 32.42 | 6.32 | | 25.07 | 291.8 | .088 |
| 50 | 9.30 | 32.453 | 6.38 | | 50 | 9.30 | 32.46 | 6.39 | | 25.11 | 287.9 | .146 |
| 77 | 9.14 | 32.543 | 6.00 | | 75 | 9.16 | 32.52 | 6.06 | | 25.18 | 281.3 | .217 |
| 105 | 8.29 | 33.413 | 3.97 | | 100 | 8.45 | 33.24 | 4.36 | | 25.86 | 217.6 | .279 |
| 159 | 7.74 | 33.855 | 2.98 | | 150 | 7.79 | 33.85 | 2.98 | | 26.43 | 163.8 | .375 |
| 210 | 7.09 | 33.933 | 2.81 | | 200 | 7.22 | 33.93 | 2.82 | | 26.57 | 150.7 | .453 |
| 311 | 6.29 | 34.008 | 1.86 | | 250 | 6.74 | 33.97 | 2.46 | | 26.67 | 142.1 | .526 |
| 412 | 5.42 | 34.050 | 1.31 | | 300 | 6.36 | 34.00 | 1.97 | | 26.75 | 135.5 | .596 |
| 514 | 4.95 | 34.136 | .68 | | 400 | 5.51 | 34.04 | 1.37 | | 26.88 | 123.2 | .725 |
| 616 | 4.60 | 34.207 | .39 | | 500 | 5.00 | 34.12 | .76 | | 27.01 | 111.6 | .842 |
| 819 | 3.98 | 34.338 | .32 | | 600 | 4.65 | 34.20 | .42 | | 27.10 | 103.6 | .950 |
| 1019 | 3.57 | 34.412 | .34 | | 700 | 4.32 | 34.27 | .36 | | 27.20 | 95.3 | 1.049 |
| | | | | | 800 | 4.03 | 34.33 | .33 | | 27.28 | 88.0 | 1.141 |
| | | | | | 1000 | 3.60 | 34.41 | .33 | | 27.38 | 78.8 | 1.308 |
| AH 065 46 14.5 N 125 39.5 W DATE 25 FEB 63 0010 GCT WIRE 08 DRY 49.8 WET 49.2 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 09 KTS BAR 25 SWELL DIRECTION - H - T - CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.65 | 32.405 | 6.43 | | 0 | 9.65 | 32.41 | 6.44 | | 25.02 | 296.0 | 0 |
| 10 | 9.54 | 32.398 | 6.47 | | 10 | 9.54 | 32.40 | 6.47 | | 25.03 | 295.0 | .030 |
| 20 | 9.46 | 32.398 | 6.45 | | 20 | 9.46 | 32.40 | 6.45 | | 25.04 | 293.9 | .059 |
| 30 | 9.38 | 32.414 | 6.33 | | 30 | 9.38 | 32.42 | 6.33 | | 25.07 | 291.7 | .088 |
| 50 | 9.50 | 32.465 | 6.31 | | 50 | 9.50 | 32.47 | 6.32 | | 25.09 | 290.0 | .146 |
| 77 | 9.03 | 32.584 | 5.94 | | 75 | 9.09 | 32.56 | 6.00 | | 25.23 | 277.2 | .217 |
| 104 | 8.10 | 33.370 | 4.07 | | 100 | 8.24 | 33.24 | 4.36 | | 25.89 | 214.5 | .279 |
| 157 | 7.54 | 33.797 | 3.29 | | 150 | 7.57 | 33.79 | 3.29 | | 26.41 | 165.2 | .374 |
| 207 | 6.95 | 33.954 | 2.23 | | 200 | 7.03 | 33.94 | 2.37 | | 26.61 | 147.4 | .452 |
| 308 | 5.77 | 33.977 | 2.21 | | 250 | 6.41 | 33.96 | 2.22 | | 26.71 | 138.3 | .523 |
| 409 | 5.23 | 34.049 | 1.11 | | 300 | 5.85 | 33.98 | 2.21 | | 26.79 | 131.1 | .591 |
| 512 | 4.94 | 34.142 | .90 | | 400 | 5.26 | 34.04 | 1.21 | | 26.91 | 120.4 | .716 |
| 612 | 4.56 | 34.207 | .52 | | 500 | 4.97 | 34.13 | .91 | | 27.02 | 110.7 | .832 |
| 813 | 3.99 | 34.336 | .33 | | 600 | 4.61 | 34.20 | .57 | | 27.11 | 102.8 | .938 |
| 1012 | 3.50 | 34.407 | .42 | | 700 | 4.29 | 34.27 | .37 | | 27.20 | 94.7 | 1.037 |
| | | | | | 800 | 4.02 | 34.33 | .34 | | 27.28 | 87.8 | 1.128 |
| | | | | | 1000 | 3.53 | 34.40 | .41 | | 27.39 | 78.1 | 1.294 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 045 46 14.6 N 125 10.6 W DATE 25 FEB 63 1130 GCT WIRE 10 DRY 51.0 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 20 KTS BAR 22 SWELL DIRECTION 26 H 05 T 10 CLOUD 00 AMT 10 WEATHER 60 | | | | | | | | | | | | |
| 0 | 10.00 | 32.494 | 6.36 | | 0 | 10.00 | 32.50 | 6.36 | | 25.03 | 294.9 | 0 |
| 10 | 10.00 | 32.496 | 6.48 | | 10 | 10.00 | 32.50 | 6.48 | | 25.03 | 294.9 | .029 |
| 30 | 9.72 | 32.495 | 6.37 | | 20 | 9.87 | 32.50 | 6.45 | | 25.05 | 293.4 | .059 |
| 49 | 9.66 | 32.512 | 6.26 | | 30 | 9.72 | 32.50 | 6.38 | | 25.07 | 290.9 | .088 |
| 76 | 9.64 | 32.766 | 5.53 | | 50 | 9.66 | 32.51 | 6.25 | | 25.10 | 289.1 | .146 |
| 104 | 8.33 | 33.527 | 3.58 | | 75 | 9.65 | 32.75 | 5.57 | | 25.28 | 272.0 | .216 |
| 157 | 7.74 | 33.859 | 2.84 | | 100 | 8.54 | 33.42 | 3.86 | | 25.98 | 206.2 | .276 |
| 207 | 7.28 | 33.958 | 2.39 | | 150 | 7.74 | 33.82 | 2.94 | | 26.41 | 165.9 | .369 |
| 308 | 6.06 | 34.019 | 1.80 | | 200 | 7.34 | 33.95 | 2.44 | | 26.57 | 150.9 | .448 |
| 410 | 5.51 | 34.062 | 1.16 | | 250 | 6.74 | 34.00 | 2.12 | | 26.69 | 140.3 | .521 |
| 515 | 5.01 | 34.149 | .73 | | 300 | 6.15 | 34.02 | 1.84 | | 26.78 | 131.7 | .589 |
| 618 | 4.60 | 34.235 | .69 | | 400 | 5.55 | 34.06 | 1.22 | | 26.89 | 122.7 | .716 |
| 822 | 3.96 | 34.339 | .62 | | 500 | 5.08 | 34.14 | .77 | | 27.01 | 111.7 | .833 |
| 1020 | 3.48 | 34.412 | .37 | | 600 | 4.67 | 34.22 | .70 | | 27.12 | 102.0 | .940 |
| 1219 | 2.99 | 34.481 | .55 | | 700 | 4.32 | 34.28 | .67 | | 27.21 | 93.8 | 1.038 |
| | | | | | 800 | 4.02 | 34.33 | .63 | | 27.28 | 87.6 | 1.128 |
| | | | | | 1000 | 3.53 | 34.41 | .39 | | 27.39 | 78.0 | 1.294 |
| | | | | | 1200 | 3.04 | 34.47 | .51 | | 27.49 | 68.4 | 1.440 |
| AH 035 46 14.6 N 124 56.2 W DATE 25 FEB 63 1445 GCT WIRE - DRY 51.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 19 KTS BAR 20 SWELL DIRECTION 22 H 06 T 10 CLOUD 00 AMT 10 WEATHER 61 | | | | | | | | | | | | |
| 0 | 10.07 | 32.431 | 6.45 | | 0 | 10.07 | 32.44 | 6.45 | | 24.97 | 300.7 | 0 |
| 9 | 10.10 | 32.479 | 6.41 | | 10 | 10.11 | 32.48 | 6.41 | | 25.00 | 297.8 | .030 |
| 19 | 10.13 | 32.529 | 6.40 | | 20 | 10.13 | 32.53 | 6.39 | | 25.03 | 294.9 | .060 |
| 28 | 10.06 | 32.565 | 6.21 | | 30 | 10.02 | 32.61 | 6.12 | | 25.11 | 287.6 | .089 |
| 49 | 9.51 | 33.100 | 5.05 | | 50 | 9.49 | 33.12 | 5.00 | | 25.60 | 241.7 | .142 |
| 73 | 9.04 | 33.453 | 4.03 | | 75 | 9.01 | 33.47 | 3.96 | | 25.95 | 208.6 | .198 |
| 103 | 8.67 | 33.654 | 3.24 | | 100 | 8.70 | 33.64 | 3.30 | | 26.13 | 191.7 | .248 |
| 151 | 8.39 | 33.749 | 2.88 | | 150 | 8.39 | 33.75 | 2.88 | | 26.26 | 180.2 | .341 |
| 206 | 7.91 | 33.921 | 2.70 | | 200 | 7.97 | 33.90 | 2.72 | | 26.44 | 163.4 | .427 |
| 308 | 6.62 | 34.000 | 2.08 | | 250 | 7.37 | 33.98 | 2.46 | | 26.59 | 150.2 | .505 |
| 411 | 5.63 | 34.041 | 1.45 | | 300 | 6.72 | 33.99 | 2.14 | | 26.69 | 141.0 | .578 |
| 516 | 4.91 | 34.117 | .80 | | 400 | 5.72 | 34.04 | 1.52 | | 26.85 | 126.4 | .711 |
| 616 | 4.59 | 34.184 | .52 | | 500 | 5.00 | 34.10 | .89 | | 26.99 | 113.0 | .831 |
| | | | | | 600 | 4.62 | 34.17 | .54 | | 27.09 | 104.9 | .940 |
| AH 025 46 14.4 N 124 41.7 W DATE 25 FEB 63 1700 GCT WIRE 05 DRY 50.5 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 15 KTS BAR 20 SWELL DIRECTION 22 H 06 T 10 CLOUD 00 AMT 10 WEATHER 61 | | | | | | | | | | | | |
| 0 | 10.06 | 31.411 | 6.47 | | 0 | 10.06 | 31.42 | 6.47 | | 24.17 | 376.1 | 0 |
| 10 | 10.00 | 32.428 | 6.41 | | 10 | 10.00 | 32.43 | 6.42 | | 24.98 | 300.0 | .034 |
| 20 | 9.87 | 32.447 | 6.36 | | 20 | 9.88 | 32.47 | 6.36 | | 25.03 | 295.2 | .064 |
| 30 | 9.78 | 32.463 | 6.40 | | 30 | 9.78 | 32.47 | 6.41 | | 25.04 | 294.2 | .093 |
| 51 | 9.72 | 32.542 | 6.08 | | 50 | 9.72 | 32.53 | 6.11 | | 25.10 | 288.7 | .151 |
| 77 | 9.27 | 33.024 | 4.81 | | 75 | 9.31 | 32.98 | 4.91 | | 25.52 | 249.5 | .219 |
| 108 | 9.02 | 33.398 | 4.40 | | 100 | 9.08 | 33.32 | 4.46 | | 25.82 | 221.4 | .277 |
| 161 | 8.29 | 33.714 | 3.01 | | 150 | 8.46 | 33.67 | 3.30 | | 26.19 | 187.0 | .379 |
| 216 | 7.39 | 33.924 | 2.40 | | 200 | 7.67 | 33.88 | 2.49 | | 26.47 | 161.1 | .466 |
| AH 015 46 14.4 N 124 27.3 W DATE 25 FEB 63 1940 GCT WIRE 17 DRY 50.5 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 16 KTS BAR 20 SWELL DIRECTION 23 H 07 T 09 CLOUD 00 AMT 10 WEATHER 61 | | | | | | | | | | | | |
| 0 | 10.11 | 30.235 | 6.80 | | 0 | 10.11 | 30.24 | 6.81 | | 23.25 | 464.1 | 0 |
| 10 | 10.10 | 32.488 | 6.39 | | 10 | 10.10 | 32.49 | 6.40 | | 25.01 | 297.1 | .038 |
| 20 | 10.10 | 32.524 | 6.26 | | 20 | 10.10 | 32.53 | 6.27 | | 25.03 | 294.6 | .068 |
| 30 | 10.06 | 32.560 | 6.23 | | 30 | 10.06 | 32.56 | 6.23 | | 25.07 | 291.5 | .097 |
| 51 | 9.82 | 32.684 | 5.85 | | 50 | 9.83 | 32.67 | 5.88 | | 25.19 | 280.0 | .154 |
| 76 | 9.46 | 33.123 | 5.16 | | 75 | 9.48 | 33.10 | 5.19 | | 25.59 | 243.1 | .219 |
| 108 | 8.91 | 33.488 | 4.12 | | 100 | 9.06 | 33.41 | 4.39 | | 25.89 | 214.3 | .277 |
| 161 | 7.55 | 33.911 | 2.46 | | 150 | 7.82 | 33.85 | 2.75 | | 26.42 | 164.6 | .371 |
| 216 | 6.96 | 33.970 | 2.10 | | 200 | 7.05 | 33.95 | 2.20 | | 26.61 | 146.8 | .449 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 005 46 14.6 N 124 13.7 W DATE 25 FEB 63 2200 GCT WIRE 10 DRY 49.3 WET 49.3 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 36 KTS BAR 19 SWELL DIRECTION 23 H 08 T 09 CLOUD 00 AMT 10 WEATHER 61 | | | | | | | | | | | | |
| 0 | 10.03 | 27.175 | 6.53 | | 0 | 10.03 | 27.18 | 6.54 | | 20.89 | 690.4 | 0 |
| 10 | 10.67 | 30.804 | 6.16 | | 10 | 10.67 | 30.81 | 6.17 | | 23.60 | 431.0 | .056 |
| 20 | 10.49 | 31.698 | 6.12 | | 20 | 10.49 | 31.70 | 6.13 | | 24.33 | 362.0 | .096 |
| 30 | 10.38 | 32.307 | 5.81 | | 30 | 10.38 | 32.31 | 5.82 | | 24.82 | 315.3 | .130 |
| 40 | 10.03 | 32.550 | | | 50 | 9.75 | 32.84 | 5.31 | | 25.34 | 266.4 | .188 |
| 50 | 9.75 | 32.837 | 5.30 | | 75 | 9.48 | 33.10 | | | 25.59 | 243.1 | .251 |
| BH 005 42 0.0 N 124 19.5 W DATE 02 MAR 63 1715 GCT WIRE 07 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 05 KTS BAR 22 SWELL DIRECTION 26 H 07 T 11 CLOUD 00 AMT 10 WEATHER 62 | | | | | | | | | | | | |
| 0 | 10.86 | 32.565 | 6.26 | | 0 | 10.86 | 32.57 | 6.27 | | 24.94 | 303.6 | 0 |
| 7 | 10.70 | 32.729 | 6.11 | | 10 | 10.67 | 32.56 | 5.93 | | 24.96 | 301.2 | .030 |
| 17 | 10.56 | 32.136 | 5.42 | | 20 | 10.44 | 32.18 | 5.22 | | 24.71 | 325.4 | .062 |
| 27 | 10.00 | 32.298 | 4.76 | | 30 | 11.70 | 33.15 | | | 25.24 | 275.5 | .092 |
| BH 015 42 0.0 N 124 32.8 W DATE 02 MAR 63 1855 GCT WIRE 07 DRY 47.5 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 11 VEL 03 KTS BAR 21 SWELL DIRECTION 26 H 07 T 11 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.96 | 32.138 | 6.41 | | 0 | 10.96 | 32.14 | 6.42 | | 24.59 | 336.9 | 0 |
| 10 | 11.10 | 32.462 | 6.50 | | 10 | 11.10 | 32.47 | 6.51 | | 24.81 | 315.5 | .033 |
| 20 | 11.10 | 32.654 | 6.47 | | 20 | 11.10 | 32.66 | 6.47 | | 24.96 | 301.5 | .063 |
| 30 | 10.97 | 32.755 | 6.34 | | 30 | 10.97 | 32.76 | 6.34 | | 25.06 | 292.8 | .093 |
| 55 | 10.50 | 32.998 | 5.86 | | 50 | 10.62 | 32.94 | 6.02 | | 25.26 | 273.2 | .150 |
| 79 | 9.55 | 33.477 | 4.11 | | 75 | 9.73 | 33.39 | 4.42 | | 25.77 | 225.5 | .212 |
| 108 | 8.40 | 33.841 | 2.87 | | 100 | 8.72 | 33.76 | 3.12 | | 26.22 | 183.0 | .263 |
| BH 025 42 0.0 N 124 46.2 W DATE 02 MAR 63 2040 GCT WIRE 00 DRY 49.2 WET 46.4 | | | | | | | | | | | | |
| WIND DIRECTION 28 VEL 16 KTS BAR 20 SWELL DIRECTION 28 H 08 T 10 CLOUD 06 AMT 07 WEATHER 25 | | | | | | | | | | | | |
| 0 | 11.31 | 32.674 | 6.44 | | 0 | 11.31 | 32.68 | 6.44 | | 24.94 | 303.2 | 0 |
| 10 | 11.35 | 32.672 | 6.47 | | 10 | 11.35 | 32.68 | 6.47 | | 24.93 | 304.2 | .030 |
| 20 | 11.30 | 32.679 | 6.45 | | 20 | 11.30 | 32.68 | 6.45 | | 24.95 | 303.0 | .061 |
| 30 | 11.71 | 32.781 | 6.32 | | 30 | 11.71 | 32.79 | 6.32 | | 24.95 | 302.8 | .091 |
| 52 | 10.85 | 32.833 | 6.02 | | 50 | 10.98 | 32.83 | 6.05 | | 25.12 | 287.2 | .150 |
| 76 | 10.09 | 33.098 | 5.55 | | 75 | 10.12 | 33.08 | 5.57 | | 25.46 | 254.7 | .218 |
| 104 | 9.35 | 33.414 | 4.69 | | 100 | 9.44 | 33.37 | 4.82 | | 25.80 | 223.3 | .277 |
| 158 | 8.49 | 33.887 | 3.06 | | 150 | 8.59 | 33.83 | 3.27 | | 26.30 | 176.8 | .377 |
| 208 | 7.78 | 34.015 | 2.38 | | 200 | 7.89 | 34.01 | 2.45 | | 26.54 | 154.5 | .460 |
| 310 | 6.68 | 34.109 | 1.64 | | 250 | 7.28 | 34.07 | 2.00 | | 26.68 | 141.9 | .534 |
| 414 | 5.94 | 34.138 | | | 300 | 6.77 | 34.11 | 1.69 | | 26.77 | 133.2 | .603 |
| 519 | 5.32 | 34.197 | 1.08 | | 400 | 6.02 | 34.14 | 1.37 | | 26.89 | 122.9 | .731 |
| 619 | 4.70 | 34.282 | .53 | | 500 | 5.43 | 34.18 | 1.12 | | 27.01 | 112.3 | .849 |
| | | | | | 600 | 4.82 | 34.26 | .65 | | 27.14 | 100.6 | .955 |
| BH 035 42 0.0 N 124 59.7 W DATE 02 MAR 63 2400 GCT WIRE 14 DRY 50.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 16 KTS BAR 19 SWELL DIRECTION 28 H 10 T 10 CLOUD 06 AMT 06 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.62 | 32.700 | 6.40 | | 0 | 11.63 | 32.71 | 6.41 | | 24.90 | 306.6 | 0 |
| 10 | 11.62 | 32.694 | 6.49 | | 10 | 11.63 | 32.70 | 6.49 | | 24.90 | 307.3 | .031 |
| 20 | 11.60 | 32.731 | 6.36 | | 20 | 11.60 | 32.74 | 6.36 | | 24.93 | 304.4 | .061 |
| 30 | 11.45 | 32.748 | 6.33 | | 30 | 11.45 | 32.75 | 6.33 | | 24.97 | 300.7 | .092 |
| 52 | 10.96 | 32.879 | 5.98 | | 50 | 11.01 | 32.86 | 6.04 | | 25.13 | 285.8 | .150 |
| 77 | 10.06 | 33.424 | 4.51 | | 75 | 10.13 | 33.38 | 4.63 | | 25.69 | 233.1 | .215 |
| 105 | 9.40 | 33.584 | 3.86 | | 100 | 9.50 | 33.57 | 3.94 | | 25.95 | 209.1 | .270 |
| 151 | 8.59 | 33.848 | 2.92 | | 150 | 8.60 | 33.84 | 2.94 | | 26.30 | 176.3 | .367 |
| 207 | 8.11 | 33.956 | 2.64 | | 200 | 8.15 | 33.95 | 2.65 | | 26.45 | 162.6 | .451 |
| 304 | 7.30 | 34.054 | 2.03 | | 250 | 7.76 | 34.01 | 2.39 | | 26.56 | 153.4 | .530 |
| 403 | 6.24 | 34.110 | 1.25 | | 300 | 7.34 | 34.05 | 2.06 | | 26.65 | 145.0 | .605 |
| 504 | 5.68 | 34.156 | .80 | | 400 | 6.27 | 34.11 | 1.27 | | 26.84 | 128.0 | .741 |
| 605 | 4.91 | 34.227 | .49 | | 500 | 5.70 | 34.15 | .81 | | 26.95 | 118.0 | .864 |
| | | | | | 600 | 4.95 | 34.22 | .50 | | 27.09 | 105.2 | .976 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $s \times 10^6$ | Δ D |
| BH 045 42 0.0 N 125 13.1 W DATE 03 MAR 63 1500 GCT WIRE 00 DRY 49.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 26 KTS BAR 23 SWELL DIRECTION 32 H 08 T 08 CLOUD 06 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.53 | 32.680 | 6.36 | | 0 | 11.53 | 32.68 | 6.36 | | 24.91 | 306.5 | 0 |
| 9 | 11.54 | 32.678 | 6.40 | | 10 | 11.55 | 32.68 | 6.40 | | 24.90 | 307.1 | .031 |
| 28 | 11.63 | 32.829 | 6.26 | | 20 | 11.62 | 32.76 | 6.35 | | 24.94 | 303.3 | .061 |
| 47 | 11.14 | 32.938 | 5.94 | | 30 | 11.60 | 32.84 | 6.23 | | 25.02 | 296.6 | .091 |
| 70 | 10.27 | 33.046 | 5.65 | | 50 | 11.04 | 32.95 | 5.92 | | 25.20 | 279.7 | .149 |
| 93 | 9.22 | 33.364 | 4.63 | | 75 | 10.03 | 33.11 | 5.45 | | 25.50 | 251.3 | .215 |
| 142 | 8.73 | 33.723 | 3.57 | | 100 | 9.09 | 33.43 | 4.42 | | 25.90 | 213.1 | .273 |
| 192 | 7.90 | 33.949 | 2.87 | | 150 | 8.61 | 33.77 | 3.44 | | 26.24 | 181.8 | .372 |
| 284 | 6.58 | 34.024 | 1.99 | | 200 | 7.77 | 33.97 | 2.78 | | 26.52 | 155.9 | .456 |
| 376 | 5.84 | 34.053 | 1.43 | | 250 | 7.02 | 34.00 | 2.27 | | 26.65 | 144.0 | .531 |
| 470 | 5.19 | 34.125 | .92 | | 300 | 6.43 | 34.03 | 1.88 | | 26.76 | 134.4 | .601 |
| 564 | 4.85 | 34.205 | .52 | | 400 | 5.65 | 34.07 | 1.29 | | 26.89 | 123.1 | .730 |
| 754 | 4.36 | 34.318 | .36 | | 500 | 5.06 | 34.15 | .77 | | 27.02 | 110.3 | .846 |
| 945 | 3.76 | 34.415 | .41 | | 600 | 4.75 | 34.23 | .45 | | 27.12 | 102.3 | .952 |
| 1144 | 3.32 | 34.481 | .62 | | 700 | 4.49 | 34.29 | .41 | | 27.20 | 95.4 | 1.051 |
| | | | | | 800 | 4.21 | 34.34 | .37 | | 27.27 | 88.9 | 1.143 |
| | | | | | 1000 | 3.62 | 34.44 | .45 | | 27.40 | 76.8 | 1.309 |
| BH 065 42 0.0 N 125 39.8 W DATE 03 MAR 63 2000 GCT WIRE 10 DRY 50.0 WET 46.1 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 25 KTS BAR 25 SWELL DIRECTION 30 H 10 T 11 CLOUD 06 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.58 | 32.771 | 6.33 | | 0 | 11.58 | 32.78 | 6.33 | | 24.97 | 300.7 | 0 |
| 10 | 11.57 | 32.770 | 6.39 | | 10 | 11.57 | 32.77 | 6.40 | | 24.97 | 300.8 | .030 |
| 20 | 11.55 | 32.771 | 6.36 | | 20 | 11.55 | 32.78 | 6.36 | | 24.97 | 300.6 | .060 |
| 29 | 11.56 | 32.773 | 5.99 | | 30 | 11.56 | 32.77 | 5.99 | | 24.97 | 301.2 | .090 |
| 50 | 11.49 | 32.765 | 6.01 | | 50 | 11.49 | 32.77 | 6.02 | | 24.98 | 300.5 | .150 |
| 74 | 9.91 | 33.083 | 5.41 | | 75 | 9.86 | 33.10 | 5.37 | | 25.52 | 249.4 | .219 |
| 104 | 8.61 | 33.538 | 4.07 | | 100 | 8.74 | 33.48 | 4.25 | | 26.00 | 204.4 | .276 |
| 152 | 7.74 | 33.897 | 3.20 | | 150 | 7.76 | 33.89 | 3.22 | | 26.46 | 160.5 | .367 |
| 204 | 7.34 | 33.972 | 2.50 | | 200 | 7.36 | 33.97 | 2.55 | | 26.58 | 150.1 | .445 |
| 305 | 6.24 | 34.028 | 1.83 | | 250 | 6.84 | 34.00 | 2.14 | | 26.68 | 140.9 | .517 |
| 405 | 5.60 | 34.082 | 1.17 | | 300 | 6.29 | 34.03 | 1.85 | | 26.77 | 132.9 | .586 |
| 508 | 5.19 | 34.157 | .77 | | 400 | 5.62 | 34.08 | 1.20 | | 26.90 | 122.0 | .713 |
| 609 | 4.74 | 34.231 | .52 | | 500 | 5.22 | 34.15 | .79 | | 27.00 | 112.2 | .830 |
| 811 | 4.04 | 34.348 | .31 | | 600 | 4.78 | 34.22 | .54 | | 27.11 | 103.0 | .938 |
| 1010 | 3.63 | 34.466 | .43 | | 700 | 4.39 | 34.29 | .38 | | 27.20 | 94.5 | 1.037 |
| | | | | | 800 | 4.07 | 34.34 | .31 | | 27.28 | 87.3 | 1.127 |
| | | | | | 1000 | 3.64 | 34.46 | .42 | | 27.42 | 75.4 | 1.290 |
| BH 085 42 0.2 N 126 6.8 W DATE 03 MAR 63 2400 GCT WIRE 17 DRY 53.0 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 22 KTS BAR 24 SWELL DIRECTION 30 H 08 T 11 CLOUD 00 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.18 | 32.906 | 6.61 | | 0 | 11.18 | 32.91 | 6.61 | | 25.14 | 283.8 | 0 |
| 10 | 10.80 | 32.853 | 6.54 | | 10 | 10.80 | 32.86 | 6.55 | | 25.17 | 281.5 | .028 |
| 19 | 10.75 | 32.852 | 6.48 | | 20 | 10.72 | 32.87 | 6.42 | | 25.19 | 279.3 | .056 |
| 29 | 10.36 | 33.068 | 5.83 | | 30 | 10.33 | 33.08 | 5.80 | | 25.42 | 257.7 | .083 |
| 51 | 9.80 | 33.243 | 5.25 | | 50 | 9.82 | 33.24 | 5.27 | | 25.63 | 238.1 | .133 |
| 77 | 8.75 | 33.584 | 3.96 | | 75 | 8.83 | 33.56 | 4.06 | | 26.04 | 199.6 | .187 |
| 106 | 8.16 | 33.830 | 3.22 | | 100 | 8.24 | 33.79 | 3.33 | | 26.31 | 174.1 | .234 |
| 154 | 7.91 | 33.967 | 2.59 | | 150 | 7.92 | 33.96 | 2.62 | | 26.50 | 157.3 | .317 |
| 207 | 7.40 | 34.004 | 2.43 | | 200 | 7.47 | 34.00 | 2.44 | | 26.59 | 149.0 | .393 |
| 308 | 6.42 | 34.085 | 1.47 | | 250 | 6.98 | 34.04 | 2.04 | | 26.69 | 140.1 | .466 |
| 407 | 5.58 | 34.114 | 1.08 | | 300 | 6.50 | 34.08 | 1.55 | | 26.79 | 131.6 | .534 |
| 508 | 5.12 | 34.184 | .57 | | 400 | 5.63 | 34.11 | 1.10 | | 26.92 | 119.6 | .659 |
| 608 | 4.69 | 34.241 | .50 | | 500 | 5.15 | 34.18 | .60 | | 27.03 | 109.3 | .774 |
| 809 | 4.02 | 34.354 | .29 | | 600 | 4.72 | 34.24 | .51 | | 27.13 | 101.4 | .879 |
| 1007 | 3.56 | 34.423 | .43 | | 700 | 4.35 | 34.30 | .39 | | 27.22 | 93.4 | .976 |
| | | | | | 800 | 4.05 | 34.35 | .30 | | 27.29 | 86.5 | 1.066 |
| | | | | | 1000 | 3.57 | 34.42 | .42 | | 27.40 | 77.4 | 1.230 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |

BH 105 42 0.0 N 126 32.4 W DATE 04 MAR 63 0904 GCT WIRE 13 DRY 49.5 WET 46.0
WIND DIRECTION 04 VEL 22 KTS BAR 25 SWELL DIRECTION 30 H 08 T 09 CLOUD 03 AMT 05 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.70 | 32.752 | 6.57 | 0 | 10.70 | 32.76 | 6.57 | 25.11 | 287.2 | 0 |
| 10 | 10.69 | 32.754 | 6.50 | 10 | 10.69 | 32.76 | 6.51 | 25.11 | 287.0 | .029 |
| 20 | 10.71 | 32.753 | 6.53 | 20 | 10.71 | 32.76 | 6.54 | 25.11 | 287.6 | .057 |
| 30 | 10.70 | 32.749 | 6.54 | 30 | 10.70 | 32.75 | 6.55 | 25.11 | 287.9 | .086 |
| 51 | 10.10 | 33.054 | 5.83 | 50 | 10.14 | 33.04 | 5.87 | 25.42 | 258.2 | .141 |
| 76 | 9.50 | 33.340 | 5.02 | 75 | 9.52 | 33.33 | 5.06 | 25.75 | 227.1 | .201 |
| 107 | 8.76 | 33.761 | 3.33 | 100 | 8.92 | 33.67 | 3.70 | 26.12 | 192.8 | .254 |
| 155 | 8.12 | 33.971 | 2.69 | 150 | 8.17 | 33.97 | 2.69 | 26.46 | 160.8 | .342 |
| 209 | 7.27 | 33.978 | 2.42 | 200 | 7.41 | 33.98 | 2.45 | 26.58 | 149.9 | .420 |
| 310 | 6.44 | 34.040 | 1.78 | 250 | 6.86 | 34.00 | 2.17 | 26.68 | 141.6 | .493 |
| 408 | 5.85 | 34.102 | 1.15 | 300 | 6.50 | 34.03 | 1.85 | 26.75 | 135.1 | .562 |
| 510 | 5.27 | 34.170 | .77 | 400 | 5.89 | 34.10 | 1.20 | 26.88 | 124.1 | .691 |
| 611 | 4.61 | 34.248 | .49 | 500 | 5.33 | 34.16 | .80 | 27.00 | 112.6 | .810 |
| | | | | 600 | 4.69 | 34.24 | .52 | 27.13 | 100.8 | .916 |

BH 125 42 0.0 N 126 59.6 W DATE 04 MAR 63 1330 GCT WIRE 06 DRY 49.9 WET 46.1
WIND DIRECTION 04 VEL 09 KTS BAR 25 SWELL DIRECTION 30 H 06 T 09 CLOUD 00 AMT 10 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.00 | 32.665 | 6.43 | 0 | 11.00 | 32.67 | 6.44 | 24.99 | 298.6 | 0 |
| 10 | 11.00 | 32.661 | 6.33 | 10 | 11.00 | 32.67 | 6.33 | 24.99 | 299.1 | .030 |
| 20 | 11.00 | 32.661 | 6.38 | 20 | 11.00 | 32.67 | 6.39 | 24.99 | 299.2 | .060 |
| 30 | 11.00 | 32.661 | 6.41 | 30 | 11.00 | 32.67 | 6.42 | 24.99 | 299.4 | .090 |
| 52 | 10.87 | 32.662 | 6.34 | 50 | 10.90 | 32.66 | 6.36 | 25.00 | 298.3 | .149 |
| 78 | 9.80 | 32.976 | 5.40 | 75 | 9.95 | 32.93 | 5.53 | 25.37 | 263.4 | .220 |
| 109 | 8.50 | 33.449 | 4.25 | 100 | 8.84 | 33.32 | 4.57 | 25.85 | 218.1 | .280 |
| 158 | 7.86 | 33.837 | 3.18 | 150 | 7.91 | 33.80 | 3.31 | 26.37 | 169.5 | .377 |
| 214 | 7.01 | 33.956 | 2.59 | 200 | 7.22 | 33.95 | 2.70 | 26.58 | 149.7 | .457 |
| 318 | 5.89 | 34.002 | 1.88 | 250 | 6.57 | 33.98 | 2.32 | 26.70 | 138.8 | .529 |
| 419 | 5.19 | 34.056 | 1.17 | 300 | 6.05 | 34.00 | 1.99 | 26.79 | 131.6 | .596 |
| 524 | 4.86 | 34.122 | .80 | 400 | 5.29 | 34.05 | 1.29 | 26.91 | 120.5 | .722 |
| 624 | 4.54 | 34.197 | .52 | 500 | 4.92 | 34.11 | .86 | 27.00 | 111.9 | .838 |
| 825 | 3.87 | 34.343 | .28 | 600 | 4.62 | 34.18 | .58 | 27.09 | 104.5 | .946 |
| 1025 | 3.36 | 34.431 | .47 | 700 | 4.28 | 34.26 | .38 | 27.19 | 95.4 | 1.046 |
| | | | | 800 | 3.95 | 34.33 | .29 | 27.28 | 87.1 | 1.138 |
| | | | | 1000 | 3.42 | 34.42 | .42 | 27.41 | 75.5 | 1.300 |

BH 145 42 0.1 N 127 26.2 W DATE 04 MAR 63 1815 GCT WIRE 4 DRY 51.0 WET 47.5
WIND DIRECTION 04 VEL 7 KTS BAR 25 SWELL DIRECTION 30 H 02 T 08 CLOUD 0 AMT 10 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.06 | 32.659 | 6.52 | 0 | 11.06 | 32.66 | 6.53 | 24.97 | 300.0 | 0 |
| 10 | 11.06 | 32.658 | 6.36 | 10 | 11.06 | 32.66 | 6.36 | 24.97 | 300.3 | .030 |
| 20 | 11.05 | 32.657 | 6.43 | 20 | 11.05 | 32.66 | 6.44 | 24.97 | 300.4 | .060 |
| 30 | 11.05 | 32.656 | 6.43 | 30 | 11.05 | 32.66 | 6.44 | 24.97 | 300.6 | .090 |
| 51 | 10.90 | 32.699 | 6.20 | 50 | 10.92 | 32.69 | 6.22 | 25.02 | 296.2 | .150 |
| 76 | 9.83 | 32.905 | 5.56 | 75 | 9.88 | 32.89 | 5.59 | 25.35 | 265.1 | .220 |
| 108 | 8.39 | 33.509 | 4.04 | 100 | 8.71 | 33.42 | 4.42 | 25.96 | 208.2 | .279 |
| 158 | 8.08 | 33.869 | 3.07 | 150 | 8.13 | 33.86 | 3.16 | 26.39 | 167.7 | .373 |
| 214 | 7.15 | 33.974 | 2.41 | 200 | 7.40 | 33.96 | 2.54 | 26.57 | 151.1 | .453 |
| 318 | 6.24 | 34.035 | 1.73 | 250 | 6.75 | 34.01 | 2.13 | 26.70 | 139.7 | .525 |
| 418 | 5.71 | 34.084 | 1.17 | 300 | 6.35 | 34.03 | 1.82 | 26.77 | 133.2 | .594 |
| 520 | 4.84 | 34.118 | .84 | 400 | 5.80 | 34.08 | 1.26 | 26.87 | 124.5 | .722 |
| 619 | 4.62 | 34.200 | .56 | 500 | 5.00 | 34.11 | .89 | 27.00 | 112.6 | .841 |
| 822 | 3.91 | 34.324 | .34 | 600 | 4.64 | 34.18 | .61 | 27.10 | 104.5 | .949 |
| 1022 | 3.57 | 34.423 | .43 | 700 | 4.34 | 34.25 | .42 | 27.19 | 96.2 | 1.050 |
| | | | | 800 | 3.99 | 34.31 | .34 | 27.27 | 88.5 | 1.142 |
| | | | | 1000 | 3.59 | 34.41 | .41 | 27.39 | 78.2 | 1.309 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| RH 165 42 0.0 N 127 52.6 W DATE 04 MAR 63 2235 GCT WIRE 02 DRY 53.8 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 00 KTS BAR 26 SWELL DIRECTION 06 H 03 T 06 CLOUD 00 AMT 08 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.41 | 32.665 | 6.53 | | 0 | 11.41 | 32.67 | 6.54 | | 24.92 | 305.6 | 0 |
| 10 | 11.15 | 32.660 | 6.47 | | 10 | 11.15 | 32.67 | 6.47 | | 24.96 | 301.7 | .030 |
| 20 | 11.13 | 32.664 | 6.40 | | 20 | 11.13 | 32.67 | 6.41 | | 24.96 | 301.2 | .060 |
| 30 | 11.14 | 32.667 | 6.47 | | 30 | 11.14 | 32.67 | 6.47 | | 24.97 | 301.4 | .091 |
| 52 | 10.82 | 32.693 | 6.19 | | 50 | 10.86 | 32.69 | 6.23 | | 25.03 | 295.6 | .150 |
| 78 | 10.63 | 32.802 | 5.98 | | 75 | 10.68 | 32.77 | 6.04 | | 25.12 | 287.0 | .223 |
| 109 | 8.52 | 33.669 | 3.78 | | 100 | 9.17 | 33.41 | 4.45 | | 25.87 | 216.3 | .286 |
| 158 | 7.99 | 33.820 | 3.43 | | 150 | 8.08 | 33.80 | 3.49 | | 26.34 | 172.1 | .383 |
| 214 | 7.30 | 33.956 | 2.80 | | 200 | 7.47 | 33.93 | 2.96 | | 26.54 | 154.5 | .465 |
| 318 | 6.47 | 34.020 | 1.92 | | 250 | 6.97 | 33.99 | 2.47 | | 26.66 | 143.6 | .539 |
| 419 | 5.86 | 34.090 | 1.15 | | 300 | 6.59 | 34.02 | 2.06 | | 26.73 | 137.4 | .609 |
| 523 | 5.09 | 34.113 | .94 | | 400 | 5.97 | 34.08 | 1.27 | | 26.85 | 126.4 | .741 |
| 624 | 4.58 | 34.187 | .64 | | 500 | 5.26 | 34.11 | .97 | | 26.97 | 115.9 | .862 |
| 827 | 3.90 | 34.312 | .39 | | 600 | 4.69 | 34.17 | .71 | | 27.08 | 106.1 | .973 |
| 1027 | 3.49 | 34.436 | .47 | | 700 | 4.28 | 34.24 | .50 | | 27.18 | 97.0 | 1.075 |
| | | | | | 800 | 3.97 | 34.30 | .40 | | 27.26 | 89.6 | 1.168 |
| | | | | | 1000 | 3.53 | 34.42 | .44 | | 27.40 | 77.1 | 1.335 |
| CBH159 42 40.7 N 128 0.0 W DATE 05 MAR 63 1145 GCT WIRE 14 DRY 51.0 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 10 KTS BAR 23 SWELL DIRECTION C H 00 T 00 CLOUD 06 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.31 | 32.740 | 6.61 | | 0 | 11.31 | 32.75 | 6.61 | | 24.99 | 298.3 | 0 |
| 10 | 11.30 | 32.739 | 6.48 | | 10 | 11.30 | 32.74 | 6.48 | | 24.99 | 298.4 | .030 |
| 29 | 11.31 | 32.731 | 6.38 | | 20 | 11.31 | 32.73 | 6.42 | | 24.98 | 299.3 | .060 |
| 50 | 10.98 | 32.749 | 6.21 | | 30 | 11.30 | 32.73 | 6.37 | | 24.98 | 299.6 | .090 |
| 75 | 9.99 | 32.877 | 5.74 | | 50 | 10.98 | 32.75 | 6.21 | | 25.06 | 293.0 | .149 |
| 100 | 8.83 | 33.355 | 4.52 | | 75 | 9.99 | 32.88 | 5.74 | | 25.33 | 267.7 | .219 |
| 151 | 8.26 | 33.779 | 3.37 | | 100 | 8.83 | 33.36 | 4.53 | | 25.89 | 214.7 | .279 |
| 203 | 7.72 | 33.950 | 2.53 | | 150 | 8.27 | 33.78 | 3.38 | | 26.30 | 176.4 | .377 |
| 302 | 6.88 | 34.019 | 1.99 | | 200 | 7.75 | 33.94 | 2.57 | | 26.51 | 157.1 | .460 |
| 402 | 6.19 | 34.070 | 1.42 | | 250 | 7.30 | 34.00 | 2.19 | | 26.62 | 147.1 | .536 |
| 503 | 5.62 | 34.116 | 1.26 | | 300 | 6.89 | 34.02 | 1.99 | | 26.69 | 141.5 | .608 |
| 604 | 4.87 | 34.126 | .80 | | 400 | 6.20 | 34.07 | 1.43 | | 26.82 | 130.1 | .744 |
| 806 | 4.22 | 34.304 | .35 | | 500 | 5.64 | 34.11 | 1.26 | | 26.93 | 120.1 | .869 |
| 1008 | 3.64 | 34.413 | .41 | | 600 | 4.90 | 34.13 | .82 | | 27.02 | 111.8 | .985 |
| 1210 | 3.13 | 34.476 | .56 | | 700 | 4.49 | 34.20 | .52 | | 27.13 | 101.9 | 1.092 |
| | | | | | 800 | 4.23 | 34.30 | .36 | | 27.23 | 92.5 | 1.189 |
| | | | | | 1000 | 3.66 | 34.41 | .40 | | 27.38 | 79.3 | 1.361 |
| | | | | | 1200 | 3.15 | 34.47 | .55 | | 27.48 | 69.7 | 1.510 |
| CH 165 43 20.5 N 128 7.7 W DATE 05 MAR 63 1750 GCT WIRE 09 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 16 KTS BAR 24 SWELL DIRECTION 27 H 03 T 09 CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.76 | 32.627 | 6.65 | | 0 | 10.76 | 32.63 | 6.66 | | 25.00 | 297.4 | 0 |
| 10 | 10.76 | 32.629 | 6.51 | | 10 | 10.76 | 32.63 | 6.52 | | 25.00 | 297.4 | .030 |
| 30 | 10.77 | 32.631 | 6.56 | | 20 | 10.77 | 32.63 | 6.52 | | 25.00 | 297.9 | .059 |
| 51 | 10.75 | 32.633 | 6.46 | | 30 | 10.77 | 32.64 | 6.57 | | 25.00 | 297.8 | .089 |
| 77 | 10.38 | 32.749 | 6.07 | | 50 | 10.75 | 32.63 | 6.47 | | 25.00 | 298.1 | .149 |
| 103 | 9.85 | 33.018 | 5.40 | | 75 | 10.42 | 32.74 | 6.11 | | 25.14 | 285.4 | .222 |
| 156 | 8.03 | 33.730 | 3.85 | | 100 | 9.92 | 32.98 | 5.49 | | 25.42 | 259.5 | .290 |
| 210 | 7.61 | 33.960 | 2.73 | | 150 | 8.23 | 33.66 | 4.02 | | 26.21 | 184.6 | .401 |
| 310 | 6.52 | 33.999 | 2.25 | | 200 | 7.64 | 33.94 | 2.90 | | 26.52 | 155.8 | .486 |
| 409 | 5.72 | 34.066 | 1.25 | | 250 | 7.18 | 33.98 | 2.45 | | 26.61 | 147.7 | .562 |
| 511 | 5.17 | 34.147 | .76 | | 300 | 6.63 | 34.00 | 2.26 | | 26.70 | 139.6 | .634 |
| 612 | 4.55 | 34.236 | .47 | | 400 | 5.78 | 34.06 | 1.34 | | 26.86 | 125.5 | .766 |
| 814 | 4.06 | 34.328 | .36 | | 500 | 5.22 | 34.14 | .79 | | 26.99 | 113.3 | .885 |
| 1016 | 3.59 | 34.433 | .41 | | 600 | 4.62 | 34.23 | .50 | | 27.13 | 101.0 | .992 |
| 1218 | 3.13 | 34.492 | .59 | | 700 | 4.27 | 34.28 | .37 | | 27.21 | 93.4 | 1.090 |
| | | | | | 800 | 4.08 | 34.32 | .37 | | 27.27 | 88.8 | 1.181 |
| | | | | | 1000 | 3.63 | 34.43 | .40 | | 27.39 | 77.7 | 1.347 |
| | | | | | 1200 | 3.17 | 34.49 | .57 | | 27.49 | 68.9 | 1.494 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 145 43 21.6 N 127 40.5 W DATE 05 MAR 63 2200 GCT WIRE 04 DRY 51.0 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION 11 VEL 13 KTS BAR 25 SWELL DIRECTION 27 H 05 T 11 CLOUD 06 AMT 10 WEATHER 59 | | | | | | | | | | | | |
| 0 | 10.72 | 32.651 | 6.66 | | 0 | 10.72 | 32.66 | 6.67 | | 25.03 | 295.0 | 0 |
| 10 | 10.72 | 32.641 | 7.11 | | 10 | 10.72 | 32.65 | 7.11 | | 25.02 | 295.9 | .030 |
| 20 | 10.72 | 32.638 | 6.52 | | 20 | 10.72 | 32.64 | 6.53 | | 25.02 | 296.3 | .059 |
| 30 | 10.72 | 32.634 | 6.60 | | 30 | 10.72 | 32.64 | 6.60 | | 25.01 | 296.7 | .089 |
| 52 | 10.67 | 32.632 | 6.46 | | 50 | 10.68 | 32.63 | 6.48 | | 25.02 | 296.9 | .148 |
| 77 | 10.31 | 32.646 | 6.34 | | 75 | 10.37 | 32.64 | 6.36 | | 25.08 | 291.6 | .222 |
| 109 | 8.14 | 33.100 | 5.33 | | 100 | 8.77 | 32.95 | 5.67 | | 25.58 | 244.1 | .289 |
| 159 | 7.86 | 33.719 | 3.53 | | 150 | 7.91 | 33.63 | 3.81 | | 26.23 | 182.3 | .395 |
| 214 | 7.24 | 33.955 | 3.12 | | 200 | 7.41 | 33.92 | 3.15 | | 26.54 | 154.0 | .479 |
| 319 | 5.96 | 34.000 | 2.01 | | 250 | 6.77 | 34.00 | 2.75 | | 26.69 | 140.4 | .553 |
| 420 | 5.38 | 34.072 | 1.14 | | 300 | 6.17 | 33.99 | 2.22 | | 26.76 | 133.9 | .621 |
| 524 | 4.84 | 34.133 | .70 | | 400 | 5.47 | 34.06 | 1.29 | | 26.90 | 121.7 | .749 |
| 625 | 4.47 | 34.238 | | | 500 | 4.95 | 34.12 | .77 | | 27.01 | 111.5 | .866 |
| 827 | 3.95 | 34.336 | .35 | | 600 | 4.55 | 34.21 | .53 | | 27.13 | 101.3 | .972 |
| 1027 | 3.55 | 34.438 | .37 | | 700 | 4.25 | 34.28 | .38 | | 27.22 | 93.1 | 1.069 |
| | | | | | 800 | 4.01 | 34.33 | .38 | | 27.28 | 87.7 | 1.160 |
| | | | | | 1000 | 3.60 | 34.42 | .36 | | 27.40 | 77.5 | 1.325 |
| CH 125 43 20.5 N 127 13.3 W DATE 06 MAR 63 0135 GCT WIRE 03 DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 13 KTS BAR 23 SWELL DIRECTION 24 H 05 T 11 CLOUD 06 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.57 | 32.613 | 6.58 | | 0 | 10.57 | 32.62 | 6.58 | | 25.02 | 295.3 | 0 |
| 10 | 10.56 | 32.610 | 6.50 | | 10 | 10.56 | 32.61 | 6.51 | | 25.02 | 295.5 | .030 |
| 20 | 10.56 | 32.624 | 6.58 | | 20 | 10.56 | 32.63 | 6.58 | | 25.03 | 294.7 | .059 |
| 30 | 10.60 | 32.632 | 6.58 | | 30 | 10.60 | 32.64 | 6.58 | | 25.03 | 294.9 | .089 |
| 52 | 10.66 | 32.644 | 6.51 | | 50 | 10.65 | 32.64 | 6.53 | | 25.03 | 296.0 | .148 |
| 78 | 9.67 | 32.977 | 5.56 | | 75 | 9.81 | 32.93 | 5.69 | | 25.39 | 261.2 | .217 |
| 110 | 8.63 | 33.441 | 4.34 | | 100 | 8.92 | 33.30 | 4.71 | | 25.83 | 220.3 | .277 |
| 159 | 8.02 | 33.855 | 3.09 | | 150 | 8.04 | 33.81 | 3.26 | | 26.36 | 170.8 | .375 |
| CH 105 43 20.5 N 126 46.0 W DATE 06 MAR 63 0600 GCT WIRE 04 DRY 50.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 09 VEL 13 KTS BAR 23 SWELL DIRECTION 24 H 06 T 09 CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.58 | 32.571 | 6.72 | | 0 | 10.58 | 32.58 | 6.72 | | 24.99 | 298.6 | 0 |
| 10 | 10.58 | 32.568 | 6.58 | | 10 | 10.58 | 32.57 | 6.58 | | 24.99 | 299.0 | .030 |
| 20 | 10.55 | 32.575 | 6.64 | | 20 | 10.55 | 32.58 | 6.65 | | 25.00 | 298.1 | .060 |
| 30 | 10.48 | 32.628 | 6.60 | | 30 | 10.48 | 32.63 | 6.60 | | 25.05 | 293.2 | .089 |
| 52 | 10.28 | 32.660 | 6.30 | | 50 | 10.31 | 32.65 | 6.35 | | 25.10 | 289.3 | .148 |
| 78 | 9.21 | 33.108 | 4.98 | | 75 | 9.35 | 33.05 | 5.15 | | 25.56 | 245.3 | .214 |
| 109 | 8.45 | 33.590 | 3.81 | | 100 | 8.63 | 33.47 | 4.10 | | 26.00 | 203.8 | .270 |
| 159 | 7.73 | 33.852 | 3.08 | | 150 | 7.83 | 33.83 | 3.16 | | 26.41 | 165.6 | .363 |
| 214 | 7.26 | 33.952 | 2.39 | | 200 | 7.37 | 33.94 | 2.55 | | 26.56 | 152.3 | .442 |
| 319 | 5.99 | 34.030 | 1.55 | | 250 | 6.83 | 33.99 | 2.04 | | 26.67 | 142.2 | .514 |
| 420 | 5.07 | 34.107 | 1.26 | | 300 | 6.23 | 34.02 | 1.66 | | 26.78 | 132.4 | .584 |
| 523 | 4.71 | 34.157 | .60 | | 400 | 5.22 | 34.09 | 1.31 | | 26.96 | 116.0 | .709 |
| 623 | 4.33 | 34.234 | .41 | | 500 | 4.77 | 34.15 | .74 | | 27.05 | 107.2 | .820 |
| 823 | 3.89 | 34.361 | .28 | | 600 | 4.41 | 34.22 | .43 | | 27.15 | 99.4 | .923 |
| 1023 | 3.47 | 34.433 | .36 | | 700 | 4.13 | 34.29 | .33 | | 27.23 | 91.4 | 1.019 |
| | | | | | 800 | 3.93 | 34.35 | .28 | | 27.30 | 85.2 | 1.107 |
| | | | | | 1000 | 3.52 | 34.43 | .34 | | 27.41 | 76.3 | 1.268 |
| CH 085 43 20.5 N 126 18.8 W DATE 06 MAR 63 1000 GCT WIRE 04 DRY 51.0 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 15 KTS BAR 22 SWELL DIRECTION 24 H 05 T 10 CLOUD 03 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.55 | 32.595 | 6.68 | | 0 | 10.55 | 32.60 | 6.69 | | 25.01 | 298.3 | 0 |
| 10 | 10.56 | 32.592 | 6.52 | | 10 | 10.56 | 32.60 | 6.53 | | 25.01 | 296.8 | .030 |
| 20 | 10.54 | 32.592 | 6.66 | | 20 | 10.54 | 32.60 | 6.66 | | 25.01 | 296.7 | .059 |
| 30 | 10.56 | 32.595 | 6.41 | | 30 | 10.56 | 32.60 | 6.61 | | 25.01 | 297.0 | .089 |
| 52 | 10.56 | 32.802 | 6.44 | | 50 | 10.56 | 32.78 | 6.46 | | 25.15 | 284.0 | .147 |
| 77 | 10.11 | 32.967 | 5.99 | | 75 | 10.16 | 32.95 | 6.04 | | 25.36 | 264.9 | .216 |
| 158 | 7.36 | 33.904 | 2.94 | | 100 | 9.31 | 33.25 | 5.10 | | 25.73 | 229.9 | .278 |
| 213 | 6.80 | 33.965 | 2.58 | | 150 | 7.62 | 33.82 | 3.23 | | 26.43 | 163.8 | .376 |
| 317 | 6.10 | 34.022 | 1.77 | | 200 | 6.88 | 33.95 | 2.60 | | 26.64 | 144.7 | .453 |
| 418 | 5.56 | 34.120 | 1.12 | | 250 | 6.52 | 33.99 | 2.29 | | 26.71 | 138.0 | .524 |
| 522 | 4.98 | 34.196 | .58 | | 300 | 6.19 | 34.01 | 1.90 | | 26.78 | 132.5 | .591 |
| 623 | 4.63 | 34.251 | | | 400 | 5.65 | 34.10 | 1.23 | | 26.91 | 120.7 | .718 |
| 825 | 3.98 | 34.329 | .31 | | 500 | 5.09 | 34.18 | .68 | | 27.04 | 108.4 | .832 |
| 1024 | 3.46 | 34.426 | .48 | | 600 | 4.70 | 34.24 | .39 | | 27.13 | 100.9 | .937 |
| | | | | | 700 | 4.37 | 34.28 | .42 | | 27.20 | 94.6 | 1.035 |
| | | | | | 800 | 4.06 | 34.32 | .33 | | 27.27 | 88.8 | 1.126 |
| | | | | | 1000 | 3.52 | 34.41 | .44 | | 27.40 | 77.3 | 1.292 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 065 43 20.5 N 125 51.8 W DATE 06 MAR 63 1407 GCT WIRE 11 DRY 50.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 07 VEL 16 KTS BAR 20 SWELL DIRECTION 24 H 05 T 10 CLOUD 04 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.02 | 32.744 | 6.67 | | 0 | 11.02 | 32.75 | 6.68 | | 25.05 | 293.1 | 0 |
| 10 | 11.02 | 32.745 | 6.24 | | 10 | 11.02 | 32.75 | 6.24 | | 25.05 | 293.2 | .029 |
| 20 | 11.02 | 32.748 | 6.58 | | 20 | 11.02 | 32.75 | 6.58 | | 25.05 | 293.2 | .059 |
| 30 | 10.99 | 32.799 | 6.47 | | 30 | 10.99 | 32.80 | 6.47 | | 25.09 | 289.1 | .088 |
| 52 | 10.62 | 33.013 | 6.07 | | 50 | 10.66 | 32.99 | 6.11 | | 25.30 | 270.1 | .144 |
| 78 | 10.02 | 33.232 | 5.60 | | 75 | 10.10 | 33.20 | 5.68 | | 25.56 | 245.5 | .208 |
| 109 | 9.02 | 33.671 | 3.77 | | 100 | 9.31 | 33.55 | 4.32 | | 25.96 | 208.1 | .265 |
| 159 | 8.19 | 33.873 | 3.05 | | 150 | 8.29 | 33.86 | 3.07 | | 26.36 | 170.2 | .359 |
| 214 | 7.71 | 34.014 | 2.40 | | 200 | 7.81 | 33.99 | 2.55 | | 26.53 | 155.0 | .441 |
| 319 | 6.64 | 34.064 | 1.61 | | 250 | 7.35 | 34.05 | 2.08 | | 26.65 | 144.7 | .515 |
| 419 | 5.67 | 34.094 | 1.12 | | 300 | 6.84 | 34.05 | 1.72 | | 26.72 | 138.0 | .586 |
| 524 | 5.00 | 34.172 | .62 | | 400 | 5.84 | 34.09 | 1.20 | | 26.88 | 124.1 | .717 |
| 625 | 4.67 | 34.235 | .49 | | 500 | 5.12 | 34.15 | .72 | | 27.02 | 110.9 | .835 |
| 828 | 4.02 | 34.326 | .35 | | 600 | 4.74 | 34.22 | .50 | | 27.11 | 102.8 | .941 |
| 1028 | 3.47 | 34.424 | .44 | | 700 | 4.42 | 34.27 | .42 | | 27.19 | 96.0 | 1.041 |
| | | | | | 800 | 4.11 | 34.31 | .36 | | 27.26 | 89.8 | 1.134 |
| | | | | | 1000 | 3.54 | 34.41 | .41 | | 27.39 | 77.9 | 1.301 |
| CH 045 43 20.5 N 125 24.5 W DATE 06 MAR 63 1820 GCT WIRE 08 DRY 53.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 06 VEL 14 KTS BAR 20 SWELL DIRECTION 21 H 05 T 10 CLOUD 01 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.80 | 32.722 | 6.66 | | 0 | 10.80 | 32.73 | 6.67 | | 25.07 | 291.0 | 0 |
| 10 | 10.74 | 32.746 | 6.53 | | 10 | 10.74 | 32.75 | 6.54 | | 25.10 | 288.4 | .029 |
| 30 | 10.57 | 32.816 | 6.37 | | 20 | 10.65 | 32.77 | 6.46 | | 25.13 | 285.5 | .058 |
| 51 | 10.63 | 33.040 | 5.90 | | 30 | 10.57 | 32.82 | 6.38 | | 25.18 | 280.8 | .086 |
| 76 | 9.78 | 33.223 | 5.04 | | 50 | 10.63 | 33.03 | 5.93 | | 25.33 | 266.7 | .141 |
| 102 | 9.10 | 33.546 | 4.16 | | 75 | 9.82 | 33.22 | 5.08 | | 25.62 | 240.2 | .204 |
| 156 | 8.32 | 33.924 | 2.78 | | 100 | 9.15 | 33.52 | 4.22 | | 25.96 | 207.5 | .260 |
| 211 | 7.61 | 33.992 | 2.35 | | 150 | 8.38 | 33.90 | 2.89 | | 26.38 | 168.8 | .354 |
| 312 | 6.20 | 34.027 | 1.90 | | 200 | 7.75 | 33.98 | 2.39 | | 26.53 | 154.6 | .435 |
| 413 | 5.49 | 34.092 | 1.16 | | 250 | 7.03 | 34.01 | 2.17 | | 26.66 | 143.1 | .509 |
| 516 | 4.90 | 34.127 | .79 | | 300 | 6.35 | 34.03 | 1.95 | | 26.76 | 133.8 | .579 |
| 617 | 4.58 | 34.216 | .53 | | 400 | 5.56 | 34.08 | 1.25 | | 26.91 | 120.8 | .706 |
| 814 | 4.02 | 34.352 | .34 | | 500 | 4.98 | 34.12 | .83 | | 27.01 | 111.5 | .822 |
| 998 | 3.53 | 34.439 | .40 | | 600 | 4.62 | 34.20 | .57 | | 27.11 | 103.0 | .929 |
| | | | | | 700 | 4.34 | 34.28 | .41 | | 27.20 | 94.4 | 1.028 |
| | | | | | 800 | 4.06 | 34.34 | .34 | | 27.29 | 87.0 | 1.118 |
| | | | | | 1000 | 3.52 | 34.44 | .40 | | 27.42 | 75.5 | 1.281 |
| CH 035 43 20.5 N 125 10.6 W DATE 06 MAR 63 2215 GCT WIRE 02 DRY 51.1 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 13 KTS BAR 19 SWELL DIRECTION 21 H 05 T 09 CLOUD 01 AMT 01 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.70 | 32.636 | 6.75 | | 0 | 10.70 | 32.64 | 6.76 | | 25.02 | 295.7 | 0 |
| 10 | 10.53 | 32.645 | 6.80 | | 10 | 10.53 | 32.65 | 6.81 | | 25.05 | 292.4 | .029 |
| 20 | 10.52 | 32.640 | 6.68 | | 20 | 10.52 | 32.64 | 6.69 | | 25.05 | 292.8 | .059 |
| 30 | 10.53 | 32.646 | 6.51 | | 30 | 10.53 | 32.67 | 6.52 | | 25.07 | 291.2 | .088 |
| 51 | 10.42 | 32.946 | 6.16 | | 50 | 10.43 | 32.93 | 6.18 | | 25.29 | 270.7 | .144 |
| 77 | 9.89 | 33.242 | 5.37 | | 75 | 9.94 | 33.22 | 5.45 | | 25.60 | 241.9 | .208 |
| 109 | 8.90 | 33.669 | 3.68 | | 100 | 9.17 | 33.56 | 4.15 | | 25.99 | 205.3 | .264 |
| 159 | 8.31 | 33.924 | 2.78 | | 150 | 8.37 | 33.90 | 2.85 | | 26.38 | 168.4 | .357 |
| 214 | 7.73 | 33.996 | 2.32 | | 200 | 7.87 | 33.99 | 2.41 | | 26.52 | 155.6 | .438 |
| 319 | 6.58 | 34.071 | 1.54 | | 250 | 7.34 | 34.03 | 2.02 | | 26.63 | 145.8 | .514 |
| 421 | 5.37 | 34.055 | 1.19 | | 300 | 6.79 | 34.06 | 1.66 | | 26.74 | 136.7 | .584 |
| 525 | 4.91 | 34.114 | .88 | | 400 | 5.59 | 34.06 | 1.24 | | 26.89 | 123.1 | .714 |
| 626 | 4.81 | 34.231 | .53 | | 500 | 4.97 | 34.09 | .95 | | 26.99 | 113.5 | .832 |
| 828 | 4.09 | 34.366 | .33 | | 600 | 4.83 | 34.20 | .61 | | 27.09 | 105.5 | .942 |
| 1028 | 3.58 | 34.423 | .51 | | 700 | 4.57 | 34.29 | .40 | | 27.19 | 96.2 | 1.043 |
| | | | | | 800 | 4.20 | 34.35 | .36 | | 27.28 | 88.0 | 1.135 |
| | | | | | 1000 | 3.64 | 34.42 | .46 | | 27.39 | 78.3 | 1.301 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 025 43 20.5 N 124 50.2 W DATE 06 MAR 63 2340 GCT WIRE 03 DRY 54.0 WET 48.1 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 16 KTS BAR 18 SWELL DIRECTION 24 H 05 T 12 CLOUD 03 AMT 03 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.65 | 32.664 | 6.79 | | 0 | 10.65 | 32.67 | 6.80 | | 25.05 | 292.8 | 0 |
| 10 | 10.46 | 32.653 | 6.72 | | 10 | 10.46 | 32.66 | 6.72 | | 25.07 | 290.7 | .029 |
| 20 | 10.66 | 32.721 | 6.61 | | 20 | 10.66 | 32.73 | 6.61 | | 25.09 | 289.1 | .058 |
| 30 | 10.40 | 32.776 | 5.71 | | 30 | 10.40 | 32.78 | 5.71 | | 25.18 | 281.0 | .087 |
| 50 | 10.15 | 33.140 | 5.19 | | 50 | 10.15 | 33.14 | 5.19 | | 25.50 | 250.3 | .140 |
| 78 | 9.33 | 33.467 | 4.42 | | 75 | 9.42 | 33.44 | 4.50 | | 25.85 | 217.5 | .198 |
| 105 | 8.85 | 33.745 | 3.64 | | 100 | 8.92 | 33.70 | 3.78 | | 26.14 | 190.8 | .249 |
| 155 | 8.27 | 33.917 | 2.67 | | 150 | 8.32 | 33.91 | 2.73 | | 26.40 | 166.9 | .339 |
| 211 | 7.80 | 33.979 | 2.56 | | 200 | 7.89 | 33.97 | 2.58 | | 26.51 | 157.0 | .420 |
| 314 | 6.58 | 34.052 | 1.70 | | 250 | 7.36 | 34.01 | 2.26 | | 26.62 | 147.4 | .496 |
| 418 | 5.36 | 34.054 | 1.29 | | 300 | 6.76 | 34.05 | 1.83 | | 26.73 | 137.6 | .567 |
| 520 | 5.09 | 34.139 | .87 | | 400 | 5.54 | 34.05 | 1.35 | | 26.89 | 122.8 | .697 |
| 620 | 4.66 | 34.245 | .53 | | 500 | 5.11 | 34.12 | .95 | | 26.99 | 113.4 | .815 |
| | | | | | 600 | 4.76 | 34.22 | .59 | | 27.11 | 103.0 | .923 |
| CH 015 43 20.5 N 124 35.2 W DATE 07 MAR 63 0212 GCT WIRE 05 DRY 52.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 18 KTS BAR 18 SWELL DIRECTION 29 H 05 T 10 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.80 | 32.695 | 6.72 | | 0 | 10.80 | 32.70 | 6.72 | | 25.05 | 293.0 | 0 |
| 10 | 10.80 | 32.714 | 6.41 | | 10 | 10.80 | 32.72 | 6.42 | | 25.06 | 291.8 | .029 |
| 20 | 10.72 | 32.722 | | | 20 | 10.72 | 32.73 | 6.52 | | 25.08 | 290.1 | .058 |
| 30 | 10.70 | 32.735 | 6.67 | | 30 | 10.70 | 32.74 | 6.68 | | 25.10 | 288.9 | .087 |
| 50 | 10.64 | 32.989 | 6.03 | | 50 | 10.64 | 32.99 | 6.04 | | 25.30 | 269.5 | .143 |
| 78 | 9.80 | 33.376 | 4.85 | | 75 | 9.90 | 33.34 | 4.98 | | 25.70 | 232.4 | .206 |
| 110 | 9.42 | 33.571 | 3.89 | | 100 | 9.51 | 33.53 | 4.15 | | 25.91 | 212.8 | .261 |
| 160 | 8.62 | 33.823 | 3.10 | | 150 | 8.80 | 33.78 | 3.22 | | 26.22 | 184.1 | .361 |
| 221 | 7.22 | 34.027 | 2.11 | | 200 | 7.75 | 33.97 | 2.45 | | 26.53 | 155.4 | .445 |
| CH 005 43 20.5 N 124 29.0 W DATE 07 MAR 63 0415 GCT WIRE 04 DRY 51.0 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 05 VEL 10 KTS BAR 18 SWELL DIRECTION 29 H 05 T 10 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.55 | 31.970 | 7.83 | | 0 | 10.55 | 31.98 | 7.83 | | 24.53 | 342.5 | 0 |
| 10 | 10.34 | 32.635 | 6.89 | | 10 | 10.34 | 32.64 | 6.90 | | 25.08 | 290.1 | .032 |
| 20 | 10.46 | 32.759 | 6.66 | | 20 | 10.46 | 32.76 | 6.67 | | 25.16 | 283.0 | .060 |
| 30 | 10.32 | 32.853 | 6.18 | | 30 | 10.32 | 32.86 | 6.19 | | 25.25 | 274.0 | .088 |
| 50 | 10.15 | 33.114 | 5.89 | | 50 | 10.15 | 33.12 | 5.90 | | 25.48 | 252.3 | .141 |
| 75 | 9.36 | 33.502 | 4.32 | | 75 | 9.36 | 33.51 | 4.32 | | 25.92 | 211.5 | .199 |
| BH005 42 0.0 N 124 19.5 W DATE 14 MAY 63 1000 GCT WIRE - DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 09 VEL 05 KTS BAR 17 SWELL DIRECTION 25 H 02 T 07 CLOUD - AMT - WEATHER - | | | | | | | | | | | | |
| 0 | 12.16 | 31.557 | 6.43 | .83 | 0 | 12.16 | 31.56 | 6.44 | .84 | 23.92 | 400.4 | 0 |
| 10 | 11.07 | 32.328 | 5.93 | .96 | 10 | 11.07 | 32.33 | 5.94 | .97 | 24.71 | 324.8 | .036 |
| 20 | 10.25 | 32.855 | 5.09 | 1.35 | 20 | 10.25 | 32.86 | 5.09 | 1.36 | 25.27 | 272.5 | .066 |
| 30 | 9.74 | 33.101 | 4.49 | 1.57 | 30 | 9.74 | 33.11 | 4.49 | 1.58 | 25.54 | 246.3 | .092 |
| BH015 42 0.0 N 124 32.9 W DATE 14 MAY 63 1238 GCT WIRE - DRY 55.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 05 KTS BAR 17 SWELL DIRECTION 25 H 03 T 09 CLOUD 06 AMT 03 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.28 | 31.542 | 6.48 | .51 | 0 | 12.28 | 31.55 | 6.48 | .51 | 23.89 | 403.7 | 0 |
| 10 | 11.25 | 32.338 | 6.77 | .52 | 10 | 11.25 | 32.34 | 6.78 | .52 | 24.69 | 327.2 | .037 |
| 20 | 10.96 | 32.602 | 6.23 | .69 | 20 | 10.96 | 32.61 | 6.23 | .70 | 24.95 | 302.9 | .068 |
| 30 | 11.00 | 32.614 | 6.14 | .60 | 30 | 11.00 | 32.62 | 6.15 | .60 | 24.95 | 302.9 | .098 |
| 50 | 10.34 | 32.809 | 5.17 | .95 | 50 | 10.34 | 32.81 | 5.18 | .96 | 25.22 | 277.9 | .156 |
| 75 | 9.27 | 33.310 | 4.30 | 1.54 | 75 | 9.27 | 33.31 | 4.30 | 1.55 | 25.78 | 224.3 | .219 |
| 100 | 8.24 | 33.781 | 3.10 | 2.06 | 100 | 8.24 | 33.79 | 3.10 | 2.07 | 26.31 | 174.4 | .269 |

| | OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

RH025 42 0.0 N 124 46.2 W DATE 14 MAY 63 1447 GCT WIRE 05 DRY 54.5 WET 53.5
WIND DIRECTION 33 VEL 16 KTS BAR 18 SWELL DIRECTION 27 H 03 T 08 CLOUD 06 AMT 07 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.60 | 30.706 | 6.48 | .54 | 0 | 12.60 | 30.71 | 6.48 | .54 | 23.18 | 471.0 | 0 |
| 9 | 12.39 | 31.578 | 6.20 | .55 | 10 | 12.36 | 31.70 | 6.22 | .56 | 23.99 | 394.1 | .043 |
| 19 | 12.14 | 32.580 | 6.43 | .66 | 20 | 12.12 | 32.61 | 6.41 | .66 | 24.74 | 323.1 | .079 |
| 29 | 11.99 | 32.626 | 6.09 | .67 | 30 | 11.98 | 32.63 | 6.07 | .66 | 24.78 | 319.2 | .111 |
| 48 | 11.64 | 32.673 | 5.88 | .63 | 50 | 11.54 | 32.69 | 5.87 | .66 | 24.91 | 307.2 | .174 |
| 75 | 10.12 | 32.978 | 5.80 | 1.12 | 75 | 10.13 | 32.98 | 5.81 | 1.13 | 25.38 | 262.3 | .245 |
| 103 | 8.94 | 33.341 | 5.05 | 1.49 | 100 | 9.05 | 33.30 | 5.15 | 1.46 | 25.81 | 222.2 | .306 |
| 157 | 7.88 | 33.916 | 3.09 | 1.93 | 150 | 7.96 | 33.86 | 3.33 | 1.89 | 26.41 | 165.7 | .402 |
| 208 | 7.18 | 34.010 | 2.19 | 2.20 | 200 | 7.27 | 34.00 | 2.29 | 2.16 | 26.62 | 146.7 | .481 |
| 313 | 6.41 | 34.120 | 1.64 | 2.69 | 250 | 6.80 | 34.07 | 1.86 | 2.45 | 26.74 | 135.7 | .551 |
| 420 | 5.96 | 34.114 | 1.09 | 2.29 | 300 | 6.47 | 34.11 | 1.66 | 2.66 | 26.82 | 128.8 | .617 |
| 520 | 5.64 | 34.150 | .82 | 2.99 | 400 | 6.03 | 34.12 | 1.18 | 2.35 | 26.88 | 124.2 | .744 |
| 620 | 5.02 | 34.236 | .58 | 2.80 | 500 | 5.71 | 34.14 | .86 | 2.84 | 26.94 | 119.2 | .865 |
| | | | | | 600 | 5.17 | 34.21 | .63 | 2.91 | 27.06 | 108.5 | .979 |

RH035 42 0.0 N 124 59.8 W DATE 14 MAY 63 1807 GCT WIRE 05 DRY 55.5 WET 53.5
WIND DIRECTION 34 VEL 20 KTS BAR 19 SWELL DIRECTION 28 H 05 T 10 CLOUD 06 AMT 06 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.63 | 31.694 | 6.40 | .47 | 0 | 12.63 | 31.70 | 6.41 | .47 | 23.94 | 398.8 | 0 |
| 10 | 12.65 | 31.956 | 6.64 | .54 | 10 | 12.65 | 31.96 | 6.65 | .54 | 24.14 | 380.0 | .039 |
| 20 | 11.86 | 32.583 | 6.29 | .49 | 20 | 11.86 | 32.59 | 6.30 | .49 | 24.77 | 319.8 | .074 |
| 30 | 11.84 | 32.631 | 6.31 | .56 | 30 | 11.84 | 32.64 | 6.32 | .57 | 24.81 | 316.2 | .106 |
| 50 | 11.53 | 32.654 | 6.02 | .64 | 50 | 11.53 | 32.66 | 6.03 | .65 | 24.88 | 309.4 | .168 |
| 76 | 10.88 | 32.806 | 5.73 | .84 | 75 | 10.92 | 32.80 | 5.75 | .83 | 25.10 | 289.2 | .243 |
| 104 | 8.74 | 33.370 | 4.55 | 1.76 | 100 | 9.05 | 33.28 | 4.74 | 1.62 | 25.79 | 223.6 | .307 |
| 154 | 8.05 | 33.800 | 3.33 | 2.05 | 150 | 8.11 | 33.78 | 3.40 | 2.03 | 26.33 | 173.3 | .406 |
| 209 | 7.37 | 33.969 | 2.48 | 2.23 | 200 | 7.48 | 33.96 | 2.59 | 2.21 | 26.56 | 152.5 | .488 |
| 311 | 6.28 | 34.031 | 1.87 | 2.16 | 250 | 6.90 | 34.02 | 2.16 | 2.19 | 26.68 | 140.9 | .561 |
| 413 | 5.57 | 34.068 | 1.20 | 2.80 | 300 | 6.38 | 34.02 | 1.91 | 2.16 | 26.76 | 134.2 | .630 |
| 518 | 4.97 | 34.152 | .69 | 2.34 | 400 | 5.65 | 34.06 | 1.28 | 2.73 | 26.88 | 123.5 | .759 |
| 622 | 4.57 | 34.223 | .43 | 2.89 | 500 | 5.06 | 34.14 | .76 | 2.42 | 27.01 | 111.4 | .876 |
| 826 | 3.97 | 34.381 | .46 | 2.93 | 600 | 4.64 | 34.21 | .47 | 2.75 | 27.11 | 102.6 | .983 |
| 1026 | 3.55 | 34.440 | .47 | 3.16 | 700 | 4.32 | 34.29 | .44 | 2.91 | 27.21 | 93.5 | 1.081 |
| | | | | | 800 | 4.03 | 34.36 | .44 | 2.92 | 27.30 | 85.4 | 1.170 |
| | | | | | 1000 | 3.60 | 34.44 | .47 | 3.12 | 27.41 | 76.4 | 1.332 |

RH045 42 0.0 N 125 13.2 W DATE 14 MAY 63 2030 GCT WIRE 09 DRY 56.0 WET 54.0
WIND DIRECTION 35 VEL 12 KTS BAR 20 SWELL DIRECTION 29 H 05 T 11 CLOUD 06 AMT 02 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.65 | 32.564 | 6.28 | .72 | 0 | 12.65 | 32.57 | 6.29 | .73 | 24.61 | 335.1 | 0 |
| 10 | 12.22 | 32.597 | 6.40 | .65 | 10 | 12.22 | 32.60 | 6.41 | .65 | 24.71 | 325.0 | .033 |
| 30 | 11.76 | 32.623 | 6.28 | .69 | 20 | 11.94 | 32.61 | 6.38 | .65 | 24.77 | 319.4 | .065 |
| 50 | 11.58 | 32.669 | | .73 | 30 | 11.76 | 32.63 | 6.29 | .70 | 24.82 | 315.3 | .097 |
| 76 | 10.41 | 32.890 | 5.57 | 1.08 | 50 | 11.58 | 32.67 | 6.06 | .74 | 24.89 | 309.2 | .159 |
| 103 | 8.79 | 33.327 | 4.80 | 1.54 | 75 | 10.47 | 32.88 | 5.59 | 1.06 | 25.24 | 275.6 | .232 |
| 151 | 8.20 | 33.720 | 3.72 | 2.10 | 100 | 8.96 | 33.28 | 4.89 | 1.49 | 25.80 | 222.7 | .295 |
| 205 | 7.65 | 33.909 | 2.88 | 2.38 | 150 | 8.21 | 33.72 | 3.74 | 2.09 | 26.26 | 180.0 | .395 |
| 305 | 6.43 | 33.998 | 2.10 | 2.77 | 200 | 7.70 | 33.90 | 2.94 | 2.36 | 26.48 | 159.8 | .480 |
| 408 | 5.68 | 34.062 | 1.23 | 2.34 | 250 | 7.09 | 33.97 | 2.47 | 2.62 | 26.62 | 146.7 | .557 |
| 512 | 5.15 | 34.132 | .94 | 1.92 | 300 | 6.49 | 34.00 | 2.13 | 2.76 | 26.73 | 137.5 | .628 |
| 617 | 4.72 | 34.203 | .51 | 2.67 | 400 | 5.73 | 34.06 | 1.29 | 2.39 | 26.87 | 124.9 | .759 |
| 821 | 4.14 | 34.337 | .36 | 2.60 | 500 | 5.20 | 34.12 | .96 | 1.94 | 26.98 | 114.0 | .879 |
| | | | | | 600 | 4.78 | 34.19 | .58 | 2.53 | 27.09 | 105.5 | .988 |
| | | | | | 700 | 4.44 | 34.26 | .45 | 2.64 | 27.18 | 97.2 | 1.090 |
| | | | | | 800 | 4.18 | 34.32 | .38 | 2.61 | 27.26 | 90.0 | 1.183 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH065 42 0.0 N 125 40.0 W DATE 15 MAY 63 0124 GCT WIRE - DRY 55.0 WET 51.5 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 20 KTS BAR 20 SWELL DIRECTION 29 H 04 T 11 CLOUD 06 AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.52 | 32.296 | 6.21 | .70 | 0 | 12.52 | 32.30 | 6.21 | .71 | 24.42 | 352.4 | 0 |
| 10 | 12.51 | 32.294 | 5.32 | .50 | 10 | 12.51 | 32.30 | 5.32 | .51 | 24.42 | 352.6 | .035 |
| 29 | 11.86 | 32.538 | 6.43 | .77 | 20 | 12.25 | 32.41 | 5.78 | .60 | 24.56 | 339.9 | .070 |
| 48 | 10.79 | 32.692 | 5.89 | .92 | 30 | 11.80 | 32.54 | 6.43 | .78 | 24.75 | 322.2 | .103 |
| 74 | 9.84 | 33.337 | 4.53 | 1.26 | 50 | 10.70 | 32.74 | 5.79 | .94 | 25.09 | 289.4 | .164 |
| 102 | 9.16 | 33.683 | 3.72 | 1.76 | 75 | 9.81 | 33.35 | 4.49 | 1.28 | 25.73 | 229.8 | .229 |
| 151 | 8.36 | 33.820 | 3.08 | 2.36 | 100 | 9.20 | 33.67 | 3.76 | 1.72 | 26.07 | 197.5 | .282 |
| 206 | 7.63 | 33.971 | 2.56 | | 150 | 8.37 | 33.82 | 3.09 | 2.35 | 26.32 | 174.8 | .375 |
| 306 | 6.50 | 34.116 | 1.60 | 3.06 | 200 | 7.70 | 33.96 | 2.61 | 2.78 | 26.52 | 155.6 | .458 |
| 409 | 5.61 | 34.142 | 1.04 | 2.46 | 250 | 7.10 | 34.05 | 2.11 | 3.02 | 26.69 | 140.9 | .532 |
| 514 | 4.96 | 34.209 | | 3.07 | 300 | 6.56 | 34.11 | 1.65 | 3.03 | 26.80 | 130.1 | .600 |
| 620 | 4.56 | 34.286 | .33 | 2.44 | 400 | 5.68 | 34.14 | 1.08 | 2.51 | 26.94 | 118.0 | .724 |
| 825 | 4.04 | 34.379 | .28 | 2.70 | 500 | 5.03 | 34.20 | .66 | 2.99 | 27.06 | 106.4 | .836 |
| 1026 | 3.59 | 34.445 | .43 | 2.07 | 600 | 4.62 | 34.27 | .37 | 2.59 | 27.17 | 97.6 | .938 |
| 1226 | 3.16 | 34.528 | .63 | 2.68 | 700 | 4.33 | 34.33 | .31 | 2.48 | 27.24 | 90.7 | 1.032 |
| | | | | | 800 | 4.09 | 34.37 | .29 | 2.64 | 27.30 | 85.5 | 1.120 |
| | | | | | 1000 | 3.65 | 34.44 | .40 | 2.14 | 27.40 | 77.1 | 1.283 |
| | | | | | 1200 | 3.21 | 34.52 | .60 | 2.53 | 27.51 | 67.3 | 1.427 |
| BH085 42 0.0 N 126 6.7 W DATE 15 MAY 63 2026 GCT WIRE 12 DRY 54.5 WET 53.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 20 KTS BAR 24 SWELL DIRECTION 29 H 05 T 08 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.72 | 32.553 | 6.19 | .58 | 0 | 12.72 | 32.56 | 6.19 | .59 | 24.58 | 337.2 | 0 |
| 10 | 12.58 | 32.560 | 6.19 | .65 | 10 | 12.58 | 32.56 | 6.19 | .65 | 24.62 | 334.3 | .034 |
| 20 | 11.63 | 32.564 | 6.38 | .68 | 20 | 11.63 | 32.57 | 6.39 | .68 | 24.80 | 317.2 | .066 |
| 30 | 10.97 | 32.625 | 6.30 | .58 | 30 | 10.97 | 32.63 | 6.31 | .59 | 24.96 | 301.6 | .097 |
| 49 | 10.29 | 32.801 | 5.61 | 1.17 | 50 | 10.28 | 32.82 | 5.58 | 1.19 | 25.23 | 276.3 | .155 |
| 76 | 9.97 | 33.359 | 4.76 | 1.50 | 75 | 9.98 | 33.34 | 4.79 | 1.49 | 25.68 | 233.7 | .219 |
| 103 | 8.98 | 33.599 | 3.91 | 1.83 | 100 | 9.10 | 33.58 | 4.00 | 1.80 | 26.02 | 202.3 | .273 |
| 153 | 7.94 | 33.903 | 2.92 | 1.94 | 150 | 7.98 | 33.89 | 2.96 | 1.93 | 26.43 | 163.7 | .365 |
| 208 | 7.38 | 34.001 | 2.30 | 1.85 | 200 | 7.44 | 34.00 | 2.37 | 1.86 | 26.59 | 149.0 | .443 |
| 309 | 6.20 | 34.036 | 1.86 | 2.15 | 250 | 6.87 | 34.02 | 2.09 | 1.90 | 26.69 | 139.9 | .515 |
| 412 | 5.56 | 34.129 | 1.00 | 3.12 | 300 | 6.30 | 34.04 | 1.89 | 2.10 | 26.78 | 132.3 | .583 |
| 517 | 5.12 | 34.199 | .60 | 3.03 | 400 | 5.61 | 34.12 | 1.10 | 3.02 | 26.93 | 119.0 | .709 |
| 622 | 4.63 | 34.287 | .41 | 2.73 | 500 | 5.19 | 34.19 | .64 | 3.09 | 27.04 | 109.1 | .822 |
| 827 | 4.05 | 34.385 | .41 | 2.57 | 600 | 4.73 | 34.27 | .44 | 2.80 | 27.15 | 99.1 | .927 |
| 1028 | 3.52 | 34.463 | .59 | 3.39 | 700 | 4.38 | 34.33 | .41 | 2.58 | 27.24 | 91.0 | 1.022 |
| | | | | | 800 | 4.11 | 34.38 | .41 | 2.59 | 27.30 | 85.3 | 1.110 |
| | | | | | 1000 | 3.59 | 34.45 | .55 | 3.22 | 27.42 | 75.3 | 1.270 |
| BH105 42 0.0 N 126 32.0 W DATE 16 MAY 63 0036 GCT WIRE 05 DRY 55.8 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 22 KTS BAR 24 SWELL DIRECTION 29 H 05 T 08 CLOUD - AMT 07 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.29 | 32.650 | 6.39 | .65 | 0 | 12.29 | 32.65 | 6.40 | .65 | 24.74 | 322.2 | 0 |
| 10 | 12.23 | 32.654 | 6.03 | .63 | 10 | 12.23 | 32.66 | 6.04 | .63 | 24.76 | 321.0 | .032 |
| 20 | 11.64 | 32.664 | 6.50 | .81 | 20 | 11.64 | 32.67 | 6.51 | .82 | 24.87 | 310.0 | .064 |
| 29 | 11.20 | 32.667 | 6.48 | .65 | 30 | 11.17 | 32.67 | 6.48 | .66 | 24.96 | 302.1 | .094 |
| 49 | 10.61 | 32.677 | 6.25 | .85 | 50 | 10.56 | 32.69 | 6.21 | .87 | 25.08 | 290.5 | .154 |
| 75 | 9.18 | 33.084 | 5.03 | 1.45 | 75 | 9.18 | 33.09 | 5.04 | 1.46 | 25.62 | 239.7 | .220 |
| 103 | 8.37 | 33.386 | 4.32 | 2.28 | 100 | 8.43 | 33.36 | 4.38 | 2.21 | 25.95 | 208.8 | .276 |
| 152 | 7.84 | 33.802 | 3.10 | 1.72 | 150 | 7.85 | 33.79 | 3.14 | 1.76 | 26.37 | 169.3 | .370 |
| 207 | 6.99 | 33.935 | 2.72 | 2.15 | 200 | 7.10 | 33.93 | 2.74 | 2.07 | 26.59 | 149.2 | .450 |
| 308 | 6.00 | 34.001 | 1.88 | 2.59 | 250 | 6.50 | 33.98 | 2.37 | 2.42 | 26.71 | 138.5 | .522 |
| 411 | 5.33 | 34.070 | 1.02 | 2.14 | 300 | 6.06 | 34.00 | 1.95 | 2.58 | 26.78 | 131.9 | .589 |
| 516 | 4.87 | 34.157 | .66 | 2.59 | 400 | 5.39 | 34.06 | 1.10 | 2.19 | 26.91 | 120.4 | .716 |
| 621 | 4.45 | 34.235 | .38 | 2.61 | 500 | 4.93 | 34.14 | .70 | 2.51 | 27.03 | 109.3 | .830 |
| 825 | 3.86 | 34.348 | .32 | 2.85 | 600 | 4.53 | 34.22 | .43 | 2.61 | 27.14 | 100.4 | .935 |
| 1026 | 3.45 | 34.422 | .37 | 3.35 | 700 | 4.19 | 34.28 | .36 | 2.67 | 27.22 | 92.4 | 1.031 |
| | | | | | 800 | 3.92 | 34.34 | .33 | 2.81 | 27.29 | 86.0 | 1.121 |
| | | | | | 1000 | 3.49 | 34.41 | .36 | 3.27 | 27.40 | 77.0 | 1.283 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| BH125 42 0.0 N 126 59.5 W DATE 16 MAY 63 1227 GCT WIRE 05 DRY 52.9 WET 49.2 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 25 KTS BAR 24 SWELL DIRECTION 30 H 06 T 08 CLOUD 04 AMT 04 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.13 | 32.624 | 5.99 | .62 | 0 | 12.13 | 32.63 | 5.99 | .63 | 24.75 | 321.2 | 0 |
| 10 | 12.12 | 32.649 | 6.41 | .66 | 10 | 12.13 | 32.67 | 6.42 | .67 | 24.79 | 317.9 | .032 |
| 20 | 11.79 | 32.649 | 6.26 | .61 | 20 | 11.79 | 32.65 | 6.27 | .62 | 24.83 | 313.7 | .064 |
| 29 | 11.41 | 32.654 | 6.55 | | 30 | 11.37 | 32.66 | 6.53 | .63 | 24.91 | 306.2 | .095 |
| 49 | 10.56 | 32.737 | 6.16 | .66 | 50 | 10.50 | 32.76 | 6.10 | .69 | 25.14 | 284.7 | .154 |
| 75 | 9.14 | 33.322 | 4.37 | 1.62 | 75 | 9.14 | 33.33 | 4.38 | 1.63 | 25.81 | 221.4 | .217 |
| 103 | 8.22 | 33.678 | 3.43 | | 100 | 8.29 | 33.65 | 3.50 | 1.63 | 26.20 | 185.1 | .268 |
| 152 | 7.53 | 33.876 | 2.85 | 1.65 | 150 | 7.55 | 33.87 | 2.86 | 1.65 | 26.48 | 158.7 | .354 |
| 208 | 6.88 | 33.949 | 2.58 | 2.02 | 200 | 6.97 | 33.94 | 2.61 | 1.96 | 26.62 | 146.4 | .430 |
| 309 | 5.68 | 34.011 | 1.62 | 2.33 | 250 | 6.35 | 33.98 | 2.19 | 2.19 | 26.73 | 136.3 | .501 |
| 411 | 5.10 | 34.090 | 1.06 | 2.39 | 300 | 5.78 | 34.01 | 1.71 | 2.32 | 26.82 | 127.8 | .567 |
| 517 | 4.70 | 34.162 | .63 | 3.31 | 400 | 5.14 | 34.08 | 1.11 | 2.37 | 26.96 | 114.0 | .688 |
| 621 | 4.36 | 34.238 | .48 | 3.12 | 500 | 4.76 | 34.15 | .68 | 3.17 | 27.06 | 106.7 | .800 |
| 826 | 3.84 | 34.373 | .39 | 3.27 | 600 | 4.42 | 34.22 | .50 | 3.19 | 27.15 | 99.0 | .902 |
| 1027 | 3.29 | 34.445 | | 3.20 | 700 | 4.15 | 34.29 | .41 | 3.15 | 27.24 | 91.1 | .997 |
| | | | | | 800 | 3.90 | 34.36 | .40 | 3.24 | 27.31 | 84.2 | 1.085 |
| | | | | | 1000 | 3.37 | 34.44 | 0 | 3.22 | 27.43 | 73.7 | 1.243 |
| BH145 42 0.0 N 127 26.4 W DATE 16 MAY 63 1611 GCT WIRE - DRY 54.0 WET 50.8 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 25 KTS BAR 24 SWELL DIRECTION 30 H 06 T 09 CLOUD 04 AMT 02 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.10 | 32.638 | 6.43 | .67 | 0 | 12.10 | 32.64 | 6.44 | .68 | 24.77 | 319.7 | 0 |
| 10 | 12.07 | 32.636 | 6.34 | .70 | 10 | 12.07 | 32.64 | 6.34 | .71 | 24.77 | 319.5 | .032 |
| 20 | 11.44 | 32.646 | 6.57 | .60 | 20 | 11.44 | 32.65 | 6.57 | .60 | 24.90 | 307.9 | .063 |
| 30 | 11.18 | 32.642 | 6.45 | 1.27 | 30 | 11.18 | 32.65 | 6.45 | 1.27 | 24.94 | 303.9 | .094 |
| 50 | 9.85 | 32.922 | 5.56 | 1.67 | 50 | 9.85 | 32.93 | 5.57 | 1.68 | 25.39 | 261.7 | .150 |
| 76 | 8.97 | 33.370 | 4.14 | | 75 | 8.99 | 33.35 | 4.19 | 1.83 | 25.86 | 217.2 | .210 |
| 104 | 8.11 | 33.686 | 3.39 | 1.83 | 100 | 8.22 | 33.65 | 3.46 | 1.82 | 26.21 | 184.1 | .260 |
| 153 | 7.36 | 33.902 | 2.93 | 1.99 | 150 | 7.39 | 33.90 | 2.94 | 1.98 | 26.52 | 154.8 | .345 |
| 208 | 6.92 | 33.944 | 2.56 | 2.02 | 200 | 6.98 | 33.94 | 2.61 | 2.02 | 26.61 | 146.9 | .421 |
| 308 | 5.76 | 34.007 | 1.88 | 2.45 | 250 | 6.43 | 33.97 | 2.29 | 2.17 | 26.71 | 138.1 | .492 |
| 410 | 5.08 | 34.087 | 1.01 | 2.94 | 300 | 5.85 | 34.00 | 1.94 | 2.41 | 26.81 | 129.1 | .559 |
| 514 | 4.69 | 34.155 | .96 | 2.66 | 400 | 5.13 | 34.08 | 1.08 | 2.91 | 26.96 | 116.0 | .681 |
| 618 | 4.38 | 34.245 | .43 | 2.89 | 500 | 4.73 | 34.15 | .97 | 2.71 | 27.06 | 106.8 | .792 |
| 821 | 3.87 | 34.367 | .50 | 2.98 | 600 | 4.43 | 34.23 | .53 | 2.84 | 27.16 | 98.6 | .895 |
| 1020 | 3.47 | 34.441 | .55 | 3.43 | 700 | 4.16 | 34.30 | .46 | 2.93 | 27.24 | 90.7 | .990 |
| | | | | | 800 | 3.92 | 34.36 | .46 | 2.97 | 27.31 | 84.4 | 1.077 |
| | | | | | 1000 | 3.51 | 34.44 | .55 | 3.37 | 27.41 | 75.6 | 1.237 |
| BHU001 42 2.5 N 124 16.2 W DATE 17 MAY 63 1330 GCT WIRE - DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR - SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER - | | | | | | | | | | | | |
| 0 | 11.64 | 29.400 | 6.14 | | 0 | 12.10 | 32.64 | | | 24.77 | 319.7 | 0 |
| 5 | 10.95 | 32.452 | 5.93 | | 10 | 12.07 | 32.64 | | | 24.77 | 319.5 | .032 |
| 15 | 9.65 | 33.167 | 3.49 | | 20 | 11.44 | 32.65 | | | 24.90 | 307.9 | .063 |
| BHU005 42 0.0 N 124 19.5 W DATE 17 MAY 63 1428 GCT WIRE - DRY 54.0 WET 52.4 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 04 KTS BAR 15 SWELL DIRECTION 31 H 04 T 08 CLOUD - AMT 06 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.90 | 32.296 | 5.80 | | 0 | 10.90 | 32.30 | 5.81 | | 24.72 | 324.2 | 0 |
| 10 | 9.69 | 33.108 | 4.60 | | 10 | 9.69 | 33.11 | 4.60 | | 25.56 | 244.7 | .028 |
| 20 | 9.31 | 33.290 | 3.75 | | 20 | 9.31 | 33.29 | 3.76 | | 25.76 | 225.5 | .052 |
| 30 | 8.90 | 33.484 | 3.58 | | 30 | 8.90 | 33.49 | 3.59 | | 25.98 | 205.1 | .073 |
| BHU015 42 0.0 N 124 32.8 W DATE 17 MAY 63 1618 GCT WIRE - DRY 53.0 WET 52.5 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 04 KTS BAR 15 SWELL DIRECTION 31 H 05 T 07 CLOUD - AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 11.45 | 32.325 | 6.48 | | 0 | 11.45 | 32.33 | 6.48 | | 24.64 | 331.4 | 0 |
| 10 | 11.21 | 32.448 | 6.45 | | 10 | 11.21 | 32.45 | 6.45 | | 24.78 | 318.3 | .032 |
| 20 | 10.98 | 32.541 | 6.23 | | 20 | 10.98 | 32.55 | 6.23 | | 24.90 | 307.8 | .064 |
| 30 | 10.80 | 32.643 | 6.09 | | 30 | 10.80 | 32.65 | 6.09 | | 25.01 | 297.4 | .094 |
| 50 | 9.74 | 33.085 | 4.69 | | 50 | 9.74 | 33.09 | 4.69 | | 25.53 | 247.9 | .149 |
| 75 | 8.94 | 33.458 | 3.83 | | 75 | 8.94 | 33.46 | 3.84 | | 25.95 | 208.3 | .206 |
| 100 | 8.32 | 33.738 | 3.08 | | 100 | 8.32 | 33.74 | 3.09 | | 26.26 | 178.8 | .254 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

RHU025 42 0.0 N 124 46.2 W DATE 17 MAY 63 1817 GCT WIRE - DRY 54.8 WET 53.0
WIND DIRECTION 35 VEL 18 KTS BAR 15 SWELL DIRECTION 32 H 06 T 08 CLOUD - AMT - WEATHER -

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.08 | 32.320 | 6.44 | 0 | 12.08 | 32.32 | 6.44 | 24.52 | 342.8 | 0 |
| 10 | 11.99 | 32.316 | 6.38 | 10 | 11.99 | 32.32 | 6.39 | 24.54 | 341.6 | .034 |
| 20 | 11.96 | 32.388 | 6.48 | 20 | 11.96 | 32.39 | 6.48 | 24.60 | 336.0 | .068 |
| 30 | 11.73 | 32.644 | 6.33 | 30 | 11.73 | 32.67 | 6.33 | 24.86 | 311.8 | .100 |
| 50 | 11.61 | 32.729 | 6.14 | 50 | 11.61 | 32.73 | 6.15 | 24.93 | 305.3 | .162 |
| 75 | 9.78 | 33.041 | 5.17 | 75 | 9.78 | 33.05 | 5.18 | 25.49 | 252.2 | .232 |
| 104 | 8.69 | 33.459 | 4.28 | 100 | 8.78 | 33.40 | 4.40 | 25.93 | 210.8 | .290 |
| 124 | 8.45 | 33.707 | 3.61 | 150 | 8.11 | 33.93 | 2.93 | 26.44 | 162.9 | .383 |
| 208 | 7.24 | 33.989 | 2.17 | 200 | 7.37 | 33.96 | 2.21 | 26.58 | 150.5 | .461 |

RHU035 42 0.0 N 124 59.8 W DATE 17 MAY 63 2033 GCT WIRE 05 DRY 57.0 WET 55.0
WIND DIRECTION - VEL - KTS BAR 15 SWELL DIRECTION 34 H 06 T 08 CLOUD 04 AMT 02 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.83 | 32.386 | 6.33 | 0 | 12.83 | 32.39 | 6.33 | 24.43 | 351.5 | 0 |
| 10 | 12.75 | 32.387 | 6.23 | 10 | 12.75 | 32.39 | 6.23 | 24.45 | 350.2 | .035 |
| 20 | 12.69 | 32.471 | 5.92 | 20 | 12.69 | 32.48 | 5.93 | 24.53 | 343.1 | .070 |
| 30 | 12.58 | 32.572 | 6.28 | 30 | 12.58 | 32.58 | 6.29 | 24.62 | 333.8 | .104 |
| 50 | 11.75 | 32.681 | 6.33 | 50 | 11.75 | 32.69 | 6.33 | 24.87 | 311.3 | .168 |
| 75 | 10.76 | 32.843 | 5.95 | 75 | 10.76 | 32.85 | 5.95 | 25.17 | 282.8 | .242 |
| 105 | 8.93 | 33.373 | 4.57 | 100 | 9.21 | 33.28 | 4.80 | 25.77 | 226.0 | .306 |
| 124 | 8.57 | 33.530 | 4.19 | 150 | 8.14 | 33.69 | 3.72 | 26.25 | 180.5 | .407 |
| 210 | 7.29 | 33.927 | 2.85 | 200 | 7.42 | 33.90 | 2.97 | 26.52 | 155.6 | .491 |
| 309 | 6.17 | 33.992 | 2.09 | 250 | 6.79 | 33.98 | 2.51 | 26.67 | 142.3 | .566 |
| 408 | 5.47 | 34.082 | 1.10 | 300 | 6.26 | 33.99 | 2.15 | 26.75 | 135.4 | .635 |
| | | | | 400 | 5.51 | 34.07 | 1.19 | 26.91 | 121.0 | .763 |

RHS035 41 50.0 N 124 58.8 W DATE 17 MAY 63 2231 GCT WIRE 05 DRY 58.2 WET 56.8
WIND DIRECTION 01 VEL 10 KTS BAR 15 SWELL DIRECTION 34 H 05 T 08 CLOUD 04 AMT 02 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 13.01 | 32.196 | 6.28 | 0 | 13.01 | 32.20 | 6.29 | 24.25 | 368.8 | 0 |
| 10 | 12.75 | 32.190 | 6.33 | 10 | 12.75 | 32.19 | 6.33 | 24.30 | 364.7 | .037 |
| 20 | 12.58 | 32.225 | 6.38 | 20 | 12.58 | 32.23 | 6.39 | 24.36 | 359.2 | .073 |
| 30 | 11.72 | 32.617 | 6.49 | 30 | 11.72 | 32.62 | 6.49 | 24.82 | 315.1 | .107 |
| 49 | 11.30 | 32.689 | 6.04 | 50 | 11.27 | 32.70 | 6.01 | 24.96 | 301.8 | .168 |
| 74 | 10.28 | 32.991 | 5.34 | 75 | 10.23 | 33.00 | 5.32 | 25.38 | 262.5 | .239 |
| 104 | 8.90 | 33.351 | 4.69 | 100 | 9.06 | 33.30 | 4.80 | 25.81 | 222.4 | .299 |
| 123 | 8.49 | 33.598 | 3.84 | 150 | 8.11 | 33.80 | 3.15 | 26.34 | 172.3 | .398 |
| 209 | 7.54 | 33.976 | 2.46 | 200 | 7.60 | 33.97 | 2.49 | 26.55 | 153.0 | .479 |
| 309 | 6.45 | 34.029 | 1.78 | 250 | 7.08 | 34.02 | 2.12 | 26.67 | 142.8 | .553 |
| 408 | 5.63 | 34.087 | 1.17 | 300 | 6.54 | 34.02 | 1.82 | 26.74 | 136.3 | .623 |
| | | | | 400 | 5.69 | 34.08 | 1.22 | 26.89 | 122.6 | .752 |

RHS025 41 50.0 N 124 46.2 W DATE 18 MAY 63 0037 GCT WIRE - DRY 55.0 WET 54.0
WIND DIRECTION 01 VEL 08 KTS BAR 14 SWELL DIRECTION 34 H 05 T 08 CLOUD 04 AMT 04 WEATHER 03

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.83 | 32.279 | | 0 | 12.83 | 32.28 | | 24.35 | 359.4 | 0 |
| 10 | 12.34 | 32.276 | 6.48 | 10 | 12.34 | 32.28 | 6.48 | 24.44 | 350.9 | .036 |
| 20 | 12.23 | 32.289 | 6.52 | 20 | 12.23 | 32.29 | 6.53 | 24.47 | 348.1 | .070 |
| 30 | 11.98 | 32.472 | 6.42 | 30 | 11.98 | 32.48 | 6.43 | 24.66 | 330.4 | .104 |
| 49 | 11.49 | 32.684 | 6.22 | 50 | 11.43 | 32.70 | 6.19 | 24.93 | 304.7 | .168 |
| 74 | 9.86 | 33.044 | 5.26 | 75 | 9.82 | 33.05 | 5.24 | 25.49 | 252.0 | .237 |
| 104 | 8.83 | 33.384 | 4.58 | 100 | 8.93 | 33.34 | 4.68 | 25.85 | 217.8 | .296 |
| 123 | 8.28 | 33.676 | 3.80 | 150 | 7.74 | 33.88 | 2.98 | 26.46 | 160.7 | .391 |
| 209 | 7.01 | 34.016 | 1.90 | 200 | 7.08 | 33.98 | 2.00 | 26.63 | 145.2 | .467 |
| 307 | 6.39 | 34.068 | 1.50 | 250 | 6.69 | 34.06 | 1.61 | 26.75 | 134.8 | .537 |
| 405 | 5.90 | 34.115 | 1.17 | 300 | 6.42 | 34.06 | 1.53 | 26.79 | 131.7 | .604 |
| | | | | 400 | 5.92 | 34.11 | 1.19 | 26.89 | 123.2 | .731 |

RHS015 41 50.0 N 124 32.9 W DATE 18 MAY 63 0242 GCT WIRE - DRY 53.5 WET 53.0
WIND DIRECTION - VEL - KTS BAR 14 SWELL DIRECTION 34 H 04 T - CLOUD - AMT - WEATHER 12

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 11.95 | 32.391 | 7.00 | 0 | 11.95 | 32.40 | 7.01 | 24.60 | 335.2 | 0 |
| 10 | 11.13 | 32.482 | 6.41 | 10 | 11.13 | 32.49 | 6.42 | 24.82 | 314.5 | .032 |
| 20 | 11.02 | 32.513 | 6.37 | 20 | 11.02 | 32.52 | 6.38 | 24.87 | 310.5 | .064 |
| 30 | 10.84 | 32.652 | 6.12 | 30 | 10.84 | 32.66 | 6.13 | 25.01 | 297.4 | .094 |
| 50 | 9.89 | 33.009 | 4.96 | 50 | 9.89 | 33.01 | 4.96 | 25.45 | 255.9 | .149 |
| 75 | 8.52 | 33.615 | 3.56 | 75 | 8.52 | 33.62 | 3.57 | 26.14 | 190.4 | .205 |
| 104 | 7.99 | 33.853 | 3.08 | 100 | 8.03 | 33.84 | 3.10 | 26.39 | 167.2 | .250 |
| 124 | 7.69 | 33.913 | 2.94 | 150 | 7.38 | 33.97 | 2.70 | 26.58 | 149.1 | .329 |
| 208 | 7.01 | 34.027 | 1.96 | 200 | 7.03 | 34.03 | 2.08 | 26.67 | 141.2 | .402 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| RHS005 41 51.4 N 124 19.8 W DATE 18 MAY 63 0400 GCT WIRE - DRY 52.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR 14 SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER 12 | | | | | | | | | | | | |
| 0 | 11.68 | 32.591 | 6.02 | | 0 | 11.68 | 32.60 | 6.03 | | 24.81 | 315.7 | 0 |
| 10 | 10.74 | 32.508 | 6.19 | | 10 | 10.74 | 32.60 | 6.19 | | 24.98 | 299.4 | .031 |
| 20 | 9.99 | 32.976 | 5.05 | | 20 | 9.99 | 32.98 | 5.05 | | 25.40 | 259.4 | .059 |
| 30 | 9.40 | 33.265 | 4.17 | | 30 | 9.40 | 33.27 | 4.17 | | 25.73 | 228.9 | .083 |
| RHR005 42 0.0 N 124 19.5 W DATE 18 MAY 63 0613 GCT WIRE - DRY 53.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 12 KTS BAR 15 SWELL DIRECTION 34 H 03 T - CLOUD - AMT - WEATHER 12 | | | | | | | | | | | | |
| 0 | 11.87 | 32.324 | 6.33 | | 0 | 11.88 | 32.33 | 6.33 | | 24.57 | 338.7 | 0 |
| 10 | 9.32 | 33.309 | 4.05 | | 10 | 9.32 | 33.31 | 4.05 | | 25.77 | 224.1 | .028 |
| 20 | 9.02 | 33.445 | 3.08 | | 20 | 9.02 | 33.45 | 3.09 | | 25.93 | 209.6 | .050 |
| 30 | 8.66 | 33.585 | 3.13 | | 30 | 8.66 | 33.59 | 3.14 | | 26.09 | 194.0 | .070 |
| RHN005 42 10.0 N 124 26.1 W DATE 18 MAY 63 0812 GCT WIRE - DRY 52.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 20 KTS BAR 15 SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER 12 | | | | | | | | | | | | |
| 0 | 11.74 | 32.291 | 6.41 | | 0 | 11.74 | 32.30 | 6.42 | | 24.57 | 338.9 | 0 |
| 10 | 11.35 | 32.363 | 6.30 | | 10 | 11.35 | 32.37 | 6.31 | | 24.69 | 327.0 | .033 |
| 25 | 9.52 | 33.180 | 4.37 | | 20 | 10.16 | 32.88 | 5.09 | | 25.30 | 269.4 | .063 |
| 50 | 8.48 | 33.682 | 2.98 | | 30 | 9.19 | 33.34 | 3.97 | | 25.81 | 220.8 | .088 |
| 75 | 7.90 | 33.873 | 2.33 | | 50 | 8.48 | 33.69 | 2.98 | | 26.20 | 184.5 | .128 |
| | | | | | 75 | 7.91 | 33.88 | 2.33 | | 26.43 | 162.3 | .171 |
| RHN015 42 10.0 N 124 39.7 W DATE 18 MAY 63 1052 GCT WIRE 0 DRY 51.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 04 KTS BAR 15 SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER 12 | | | | | | | | | | | | |
| 0 | 11.08 | 32.507 | 6.33 | | 0 | 11.08 | 32.51 | 6.33 | | 24.85 | 311.6 | 0 |
| 10 | 10.96 | 32.506 | 6.31 | | 10 | 10.96 | 32.51 | 6.32 | | 24.87 | 309.8 | .031 |
| 20 | 10.90 | 32.513 | 6.31 | | 20 | 10.90 | 32.52 | 6.32 | | 24.89 | 308.5 | .062 |
| 30 | 10.86 | 32.583 | 6.18 | | 30 | 10.86 | 32.59 | 6.19 | | 24.95 | 302.8 | .093 |
| 50 | 10.41 | 32.777 | 5.64 | | 50 | 10.41 | 32.78 | 5.65 | | 25.18 | 281.4 | .151 |
| 75 | 8.82 | 33.398 | 4.18 | | 75 | 8.82 | 33.40 | 4.18 | | 25.92 | 211.0 | .212 |
| 105 | 8.34 | 33.732 | 2.95 | | 100 | 8.38 | 33.70 | 3.07 | | 26.22 | 182.9 | .262 |
| 124 | 7.85 | 33.864 | 3.08 | | 150 | 7.34 | 33.98 | 2.87 | | 26.60 | 147.8 | .344 |
| 208 | 6.90 | 33.992 | 2.40 | | 200 | 6.91 | 33.98 | 2.55 | | 26.66 | 142.9 | .417 |
| RHN025 42 10.0 N 124 52.8 W DATE 18 MAY 63 1345 GCT WIRE - DRY 51.8 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR 16 SWELL DIRECTION - H - T - CLOUD - AMT 10 WEATHER 28 | | | | | | | | | | | | |
| 0 | 12.31 | 32.161 | 6.34 | | 0 | 12.31 | 32.17 | 6.34 | | 24.36 | 358.6 | 0 |
| 10 | 12.26 | 32.231 | 6.36 | | 10 | 12.26 | 32.24 | 6.36 | | 24.42 | 352.7 | .036 |
| 20 | 11.91 | 32.260 | 6.49 | | 20 | 11.91 | 32.26 | 6.49 | | 24.51 | 344.5 | .070 |
| 30 | 11.89 | 32.408 | 6.42 | | 30 | 11.89 | 32.41 | 6.43 | | 24.63 | 333.5 | .104 |
| 49 | 11.45 | 32.628 | 6.31 | | 50 | 11.42 | 32.63 | 6.33 | | 24.88 | 309.5 | .169 |
| 74 | 10.58 | 32.759 | 6.36 | | 75 | 10.51 | 32.78 | 6.30 | | 25.16 | 283.7 | .243 |
| 103 | 8.77 | 33.377 | 4.41 | | 100 | 8.94 | 33.31 | 4.63 | | 25.83 | 220.0 | .306 |
| 123 | 8.42 | 33.599 | 3.87 | | 150 | 8.01 | 33.78 | 3.38 | | 26.34 | 172.3 | .404 |
| 208 | 7.23 | 33.954 | 2.71 | | 200 | 7.33 | 33.95 | 2.77 | | 26.57 | 151.1 | .485 |
| 306 | 6.02 | 34.010 | 1.85 | | 250 | 6.66 | 34.00 | 2.30 | | 26.71 | 138.8 | .557 |
| 405 | 5.51 | 34.064 | 1.08 | | 300 | 6.08 | 34.01 | 1.89 | | 26.78 | 131.7 | .625 |
| | | | | | 400 | 5.52 | 34.06 | 1.12 | | 26.90 | 122.0 | .751 |
| RHN035 42 10.0 N 125 6.5 W DATE 18 MAY 63 1500 GCT WIRE - DRY 55.0 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 04 KTS BAR 17 SWELL DIRECTION 34 H 02 T 08 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.68 | 32.644 | 6.17 | | 0 | 12.68 | 32.65 | 6.18 | | 24.66 | 329.8 | 0 |
| 10 | 12.58 | 32.654 | 6.27 | | 10 | 12.58 | 32.66 | 6.28 | | 24.69 | 327.4 | .033 |
| 20 | 12.35 | 32.623 | 6.50 | | 20 | 12.35 | 32.63 | 6.51 | | 24.71 | 325.7 | .066 |
| 30 | 12.32 | 32.626 | 6.36 | | 30 | 12.32 | 32.63 | 6.36 | | 24.72 | 325.1 | .098 |
| 49 | 11.01 | 32.639 | 6.34 | | 50 | 10.97 | 32.65 | 6.31 | | 24.98 | 300.6 | .161 |
| 74 | 10.24 | 32.953 | 5.42 | | 75 | 10.20 | 32.97 | 5.38 | | 25.36 | 264.4 | .231 |
| 103 | 9.03 | 33.385 | 4.56 | | 100 | 9.15 | 33.35 | 4.63 | | 25.83 | 220.6 | .292 |
| 123 | 8.51 | 33.511 | 4.24 | | 150 | 8.13 | 33.68 | 3.72 | | 26.24 | 181.6 | .392 |
| 207 | 7.64 | 33.940 | 2.75 | | 200 | 7.68 | 33.91 | 2.86 | | 26.49 | 158.4 | .477 |
| 306 | 6.24 | 33.996 | 2.29 | | 250 | 7.01 | 33.99 | 2.50 | | 26.65 | 144.1 | .553 |
| 405 | 5.59 | 34.072 | 1.17 | | 300 | 6.32 | 33.99 | 2.31 | | 26.74 | 135.7 | .623 |
| | | | | | 400 | 5.60 | 34.07 | 1.24 | | 26.89 | 122.6 | .752 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| BHR035 42 0.0 N 124 59.5 W DATE 18 MAY 63 1812 GCT WIRE - DRY 57.8 WET 55.8 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 07 KTS BAR 18 SWELL DIRECTION 32 H 03 T 09 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.19 | 32.414 | 6.33 | | 0 | 13.19 | 32.42 | 6.33 | | 24.38 | 356.2 | 0 |
| 10 | 12.76 | 32.493 | 6.30 | | 10 | 12.76 | 32.50 | 6.31 | | 24.53 | 342.6 | .035 |
| 20 | 12.60 | 32.575 | 6.33 | | 20 | 12.60 | 32.58 | 6.33 | | 24.62 | 333.8 | .069 |
| 30 | 12.50 | 32.606 | 6.26 | | 30 | 12.50 | 32.61 | 6.27 | | 24.67 | 329.9 | .102 |
| 49 | 11.66 | 32.672 | 6.36 | | 50 | 11.60 | 32.68 | 6.33 | | 24.89 | 308.8 | .166 |
| 74 | 10.19 | 32.983 | 5.44 | | 75 | 10.15 | 32.99 | 5.42 | | 25.39 | 261.9 | .237 |
| 104 | 9.14 | 33.262 | 4.86 | | 100 | 9.25 | 33.23 | 4.94 | | 25.72 | 230.9 | .299 |
| 124 | 8.68 | 33.485 | 4.19 | | 150 | 8.21 | 33.69 | 3.62 | | 26.24 | 182.1 | .402 |
| 209 | 7.39 | 33.938 | 2.87 | | 200 | 7.49 | 33.92 | 2.93 | | 26.52 | 155.5 | .486 |
| 309 | 6.29 | 33.992 | 2.26 | | 250 | 6.89 | 33.99 | 2.55 | | 26.67 | 142.6 | .561 |
| 409 | 5.56 | 34.060 | 1.79 | | 300 | 6.37 | 33.99 | 2.29 | | 26.73 | 136.8 | .631 |
| | | | | | 400 | 5.61 | 34.05 | 1.83 | | 26.88 | 123.7 | .761 |
| CH005 43 20.5 N 124 29.0 W DATE 19 MAY 63 0510 GCT WIRE 07 DRY 54.5 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 10 KTS BAR 19 SWELL DIRECTION 32 H 03 T 08 CLOUD - AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.71 | 32.169 | 6.45 | | 0 | 11.71 | 32.17 | 6.45 | | 24.48 | 347.4 | 0 |
| 10 | 10.69 | 32.394 | 6.43 | | 10 | 10.69 | 32.40 | 6.44 | | 24.83 | 313.6 | .033 |
| 20 | 10.35 | 32.586 | 5.94 | | 20 | 10.35 | 32.59 | 5.94 | | 25.04 | 294.0 | .063 |
| 30 | 10.09 | 32.776 | 5.47 | | 30 | 10.09 | 32.78 | 5.47 | | 25.23 | 276.0 | .092 |
| 50 | 9.30 | 33.303 | 4.37 | | 50 | 9.30 | 33.31 | 4.38 | | 25.77 | 224.9 | .142 |
| 74 | 8.33 | 33.747 | 2.83 | | 75 | 10.15 | 32.99 | | | 25.39 | 261.9 | .203 |
| CH015 43 20.5 N 124 43.2 W DATE 19 MAY 63 0651 GCT WIRE 05 DRY 55.0 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 13 KTS BAR 19 SWELL DIRECTION 28 H 03 T - CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.46 | 32.073 | 6.58 | | 0 | 12.46 | 32.08 | 6.58 | | 24.26 | 367.8 | 0 |
| 10 | 12.34 | 32.083 | 6.49 | | 10 | 12.34 | 32.09 | 6.49 | | 24.29 | 365.1 | .037 |
| 20 | 11.78 | 32.305 | 6.68 | | 20 | 11.78 | 32.31 | 6.69 | | 24.57 | 338.9 | .072 |
| 30 | 11.29 | 32.633 | 6.36 | | 30 | 11.29 | 32.64 | 6.36 | | 24.91 | 306.4 | .104 |
| 50 | 10.63 | 32.705 | 5.97 | | 50 | 10.63 | 32.71 | 5.97 | | 25.08 | 290.3 | .164 |
| 74 | 9.44 | 33.242 | 4.82 | | 75 | 9.41 | 33.26 | 4.75 | | 25.72 | 230.4 | .229 |
| 104 | 8.65 | 33.685 | 2.96 | | 100 | 8.73 | 33.64 | 3.19 | | 26.12 | 192.4 | .282 |
| 158 | 7.57 | 33.966 | 2.05 | | 150 | 7.70 | 33.95 | 2.18 | | 26.52 | 155.0 | .368 |
| 208 | 7.11 | 34.001 | 2.24 | | 200 | 7.15 | 34.00 | 2.14 | | 26.63 | 145.0 | .443 |
| CH025 43 20.5 N 124 55.2 W DATE 19 MAY 63 0905 GCT WIRE 15 DRY 49.0 WET 44.5 | | | | | | | | | | | | |
| WIND DIRECTION - VEL 15 KTS BAR 18 SWELL DIRECTION 33 H 03 T 08 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.43 | 32.541 | 6.45 | | 0 | 12.43 | 32.55 | 6.45 | | 24.63 | 332.8 | 0 |
| 9 | 12.42 | 32.538 | 6.54 | | 10 | 12.41 | 32.53 | 6.56 | | 24.62 | 333.4 | .033 |
| 19 | 12.34 | 32.532 | 6.62 | | 20 | 12.24 | 32.54 | 6.60 | | 24.67 | 329.8 | .066 |
| 28 | 11.37 | 32.652 | 6.41 | | 30 | 11.29 | 32.65 | 6.40 | | 24.92 | 305.3 | .098 |
| 48 | 10.98 | 32.642 | 6.23 | | 50 | 10.90 | 32.66 | 6.17 | | 25.00 | 298.5 | .159 |
| 74 | 9.87 | 33.001 | 5.14 | | 75 | 9.83 | 33.02 | 5.08 | | 25.46 | 254.8 | .228 |
| 101 | 8.96 | 33.514 | 3.73 | | 100 | 8.99 | 33.50 | 3.78 | | 25.97 | 207.0 | .285 |
| 154 | 8.04 | 33.872 | 2.85 | | 150 | 8.08 | 33.86 | 2.86 | | 26.40 | 167.0 | .379 |
| 205 | 7.61 | 33.953 | 2.57 | | 200 | 7.64 | 33.95 | 2.59 | | 26.53 | 155.2 | .459 |
| 309 | 6.40 | 34.072 | 1.79 | | 250 | 7.08 | 34.01 | 2.25 | | 26.66 | 143.6 | .534 |
| 414 | 5.70 | 34.127 | 1.06 | | 300 | 6.50 | 34.06 | 1.86 | | 26.78 | 132.8 | .603 |
| 516 | 5.18 | 34.210 | .72 | | 400 | 5.77 | 34.12 | 1.14 | | 26.91 | 120.8 | .730 |
| 616 | 4.68 | 34.247 | .73 | | 500 | 5.26 | 34.20 | .75 | | 27.04 | 109.2 | .845 |
| | | | | | 600 | 4.76 | 34.24 | .73 | | 27.13 | 101.3 | .950 |
| CH035 43 20.5 N 125 10.6 W DATE 19 MAY 63 1355 GCT WIRE 05 DRY 53.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 30 KTS BAR 18 SWELL DIRECTION 33 H 04 T 07 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.86 | 31.713 | 6.30 | | 0 | 12.86 | 31.72 | 6.31 | | 23.91 | 401.6 | 0 |
| 10 | 12.85 | 31.731 | 6.31 | | 10 | 12.85 | 31.74 | 6.32 | | 23.92 | 400.3 | .040 |
| 20 | 12.30 | 32.642 | 6.41 | | 20 | 12.30 | 32.65 | 6.42 | | 24.73 | 323.4 | .076 |
| 30 | 11.85 | 32.632 | 6.41 | | 30 | 11.85 | 32.64 | 6.42 | | 24.81 | 316.3 | .108 |
| 50 | 11.24 | 32.627 | 6.31 | | 50 | 11.24 | 32.63 | 6.32 | | 24.92 | 306.4 | .170 |
| 76 | 10.26 | 32.968 | 5.59 | | 75 | 10.30 | 32.95 | 5.63 | | 25.33 | 267.6 | .242 |
| 103 | 8.83 | 33.381 | 4.33 | | 100 | 8.98 | 33.34 | 4.47 | | 25.85 | 218.6 | .303 |
| 153 | 8.07 | 33.811 | 3.15 | | 150 | 8.08 | 33.80 | 3.19 | | 26.34 | 172.1 | .401 |
| 209 | 7.31 | 33.962 | 2.55 | | 200 | 7.42 | 33.95 | 2.61 | | 26.56 | 152.0 | .482 |
| 311 | 6.40 | 34.004 | 2.02 | | 250 | 6.89 | 34.00 | 2.31 | | 26.67 | 142.3 | .555 |
| 414 | 5.70 | 34.061 | 1.24 | | 300 | 6.48 | 34.00 | 2.07 | | 26.73 | 137.3 | .625 |
| 519 | 5.16 | 34.171 | .70 | | 400 | 5.78 | 34.05 | 1.35 | | 26.86 | 126.1 | .757 |
| 623 | 4.73 | 34.252 | .34 | | 500 | 5.25 | 34.15 | .78 | | 27.00 | 112.6 | .876 |
| | | | | | 600 | 4.82 | 34.24 | .40 | | 27.12 | 102.6 | .984 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH045 43 20.6 N 125 24.2 W DATE 19 MAY 63 1620 GCT WIRE 10 DRY 53.0 WET 51.5 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 33 KTS BAR 18 SWELL DIRECTION 35 H 06 T 08 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.93 | 31.920 | 6.14 | | 0 | 12.93 | 31.92 | 6.15 | | 24.05 | 387.7 | 0 |
| 10 | 12.93 | 31.927 | 6.31 | | 10 | 12.93 | 31.93 | 6.32 | | 24.06 | 387.3 | .039 |
| 29 | 11.73 | 32.631 | 6.36 | | 20 | 12.39 | 32.26 | 6.34 | | 24.42 | 353.3 | .076 |
| 74 | 9.58 | 33.074 | 5.11 | | 30 | 11.67 | 32.65 | 6.34 | | 24.85 | 312.1 | .109 |
| 101 | 8.65 | 33.401 | 4.44 | | 50 | 10.62 | 32.94 | 5.89 | | 25.26 | 273.3 | .168 |
| 149 | 7.85 | 33.889 | 2.94 | | 75 | 9.54 | 33.09 | 5.09 | | 25.56 | 245.4 | .232 |
| 203 | 7.25 | 33.982 | 2.62 | | 100 | 8.68 | 33.39 | 4.47 | | 25.93 | 210.2 | .289 |
| 304 | 6.43 | 34.024 | 1.87 | | 150 | 7.84 | 33.89 | 2.93 | | 26.46 | 161.4 | .382 |
| 406 | 5.56 | 34.085 | 1.16 | | 200 | 7.28 | 33.98 | 2.64 | | 26.60 | 148.2 | .460 |
| 512 | 5.12 | 34.159 | .72 | | 250 | 6.85 | 34.01 | 2.28 | | 26.69 | 140.5 | .532 |
| 616 | 4.72 | 34.257 | .43 | | 300 | 6.46 | 34.02 | 1.90 | | 26.75 | 135.2 | .601 |
| 809 | 4.15 | 34.371 | .33 | | 400 | 5.61 | 34.08 | 1.20 | | 26.90 | 121.6 | .729 |
| | | | | | 500 | 5.16 | 34.15 | .76 | | 27.01 | 111.5 | .846 |
| | | | | | 600 | 4.78 | 34.24 | .46 | | 27.13 | 101.7 | .952 |
| | | | | | 700 | 4.44 | 34.32 | .39 | | 27.22 | 92.8 | 1.049 |
| | | | | | 800 | 4.17 | 34.37 | .33 | | 27.29 | 86.6 | 1.139 |
| CH045 43 20.5 N 125 51.5 W DATE 19 MAY 63 2102 GCT WIRE 08 DRY 54.0 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 25 KTS BAR 18 SWELL DIRECTION 34 H 06 T 06 CLOUD 06 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.35 | 32.602 | 6.26 | | 0 | 12.35 | 32.61 | 6.27 | | 24.69 | 326.8 | 0 |
| 10 | 12.35 | 32.603 | 6.41 | | 10 | 12.35 | 32.61 | 6.42 | | 24.69 | 326.9 | .033 |
| 20 | 12.28 | 32.600 | 6.41 | | 20 | 12.28 | 32.60 | 6.42 | | 24.70 | 326.1 | .065 |
| 30 | 11.94 | 32.604 | 6.29 | | 30 | 11.94 | 32.61 | 6.30 | | 24.77 | 319.9 | .098 |
| 49 | 10.95 | 32.668 | 6.23 | | 50 | 10.89 | 32.68 | 6.19 | | 25.02 | 296.8 | .159 |
| 75 | 9.60 | 33.090 | 5.06 | | 75 | 9.60 | 33.09 | 5.06 | | 25.56 | 245.7 | .227 |
| 103 | 8.60 | 33.502 | 4.14 | | 100 | 8.68 | 33.46 | 4.22 | | 25.99 | 204.8 | .283 |
| 152 | 7.97 | 33.799 | 3.47 | | 150 | 7.98 | 33.79 | 3.48 | | 26.36 | 170.8 | .377 |
| 208 | 7.25 | 33.942 | 2.80 | | 200 | 7.35 | 33.93 | 2.89 | | 26.55 | 152.6 | .458 |
| 307 | 6.22 | 34.030 | 1.66 | | 250 | 6.77 | 33.99 | 2.28 | | 26.68 | 140.8 | .531 |
| 409 | 5.60 | 34.090 | 1.10 | | 300 | 6.28 | 34.03 | 1.73 | | 26.78 | 132.6 | .600 |
| 514 | 5.11 | 34.150 | .73 | | 400 | 5.64 | 34.09 | 1.13 | | 26.90 | 121.8 | .727 |
| 618 | 4.72 | 34.247 | .43 | | 500 | 5.17 | 34.14 | .77 | | 27.00 | 112.3 | .844 |
| 823 | 4.07 | 34.344 | .39 | | 600 | 4.78 | 34.23 | .47 | | 27.12 | 102.7 | .951 |
| 1022 | 3.63 | 34.420 | .46 | | 700 | 4.44 | 34.29 | .41 | | 27.21 | 94.4 | 1.050 |
| | | | | | 800 | 4.13 | 34.34 | .39 | | 27.27 | 88.5 | 1.141 |
| | | | | | 1000 | 3.67 | 34.41 | .45 | | 27.38 | 79.2 | 1.309 |
| CH085 43 20.5 N 126 18.6 W DATE 20 MAY 63 0027 GCT WIRE 09 DRY 55.0 WET 51.5 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 35 KTS BAR 16 SWELL DIRECTION 35 H 06 T 06 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.37 | 32.646 | 6.31 | | 0 | 12.38 | 32.65 | 6.32 | | 24.72 | 323.9 | 0 |
| 10 | 12.36 | 32.646 | 6.18 | | 10 | 12.36 | 32.65 | 6.19 | | 24.72 | 324.0 | .032 |
| 20 | 12.35 | 32.642 | 6.24 | | 20 | 12.35 | 32.65 | 6.24 | | 24.72 | 324.3 | .065 |
| 29 | 11.54 | 32.623 | 6.31 | | 30 | 11.48 | 32.63 | 6.30 | | 24.87 | 310.5 | .097 |
| 49 | 10.45 | 32.809 | 5.83 | | 50 | 10.37 | 32.83 | 5.77 | | 25.22 | 277.1 | .155 |
| 75 | 8.67 | 33.402 | 4.25 | | 75 | 8.67 | 33.41 | 4.26 | | 25.95 | 208.4 | .216 |
| 102 | 8.25 | 33.710 | 3.63 | | 100 | 8.25 | 33.70 | 3.65 | | 26.24 | 181.3 | .265 |
| 151 | 7.68 | 33.875 | 3.03 | | 150 | 7.69 | 33.87 | 3.04 | | 26.46 | 160.7 | .350 |
| 205 | 7.31 | 33.965 | 2.49 | | 200 | 7.34 | 33.96 | 2.53 | | 26.58 | 150.3 | .428 |
| 305 | 6.35 | 34.025 | 1.83 | | 250 | 6.88 | 34.00 | 2.17 | | 26.67 | 141.8 | .501 |
| 405 | 5.78 | 34.106 | 1.04 | | 300 | 6.40 | 34.02 | 1.86 | | 26.76 | 134.5 | .570 |
| 508 | 5.08 | 34.171 | .69 | | 400 | 5.81 | 34.10 | 1.08 | | 26.89 | 122.6 | .698 |
| 611 | 4.68 | 34.234 | .49 | | 500 | 5.13 | 34.17 | .71 | | 27.03 | 110.0 | .815 |
| 813 | 4.03 | 34.340 | .29 | | 600 | 4.71 | 34.23 | .51 | | 27.12 | 102.0 | .921 |
| 1013 | 3.49 | 34.414 | | | 700 | 4.38 | 34.28 | .37 | | 27.20 | 94.5 | 1.019 |
| | | | | | 800 | 4.07 | 34.33 | .30 | | 27.28 | 87.9 | 1.110 |
| | | | | | 1000 | 3.52 | 34.41 | | | 27.39 | 77.6 | 1.275 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH105 43 20.7 N 126 45.2 W DATE 20 MAY 63 0408 GCT WIRE 05 DRY 54.5 WET 51.5 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 30 KTS BAR 15 SWELL DIRECTION 35 H 08 T 08 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.27 | 32.654 | 6.36 | | 0 | 12.27 | 32.66 | 6.36 | | 24.75 | 321.5 | 0 |
| 10 | 12.26 | 32.650 | 6.31 | | 10 | 12.26 | 32.65 | 6.32 | | 24.75 | 321.9 | .032 |
| 29 | 12.28 | 32.653 | 6.30 | | 20 | 12.27 | 32.65 | 6.30 | | 24.74 | 322.4 | .064 |
| 49 | 11.15 | 32.680 | 6.54 | | 30 | 12.24 | 32.65 | 6.33 | | 24.75 | 321.9 | .097 |
| 76 | 9.30 | 33.238 | 4.59 | | 50 | 11.08 | 32.70 | 6.48 | | 25.00 | 298.7 | .159 |
| 103 | 8.41 | 33.622 | 3.71 | | 75 | 9.36 | 33.21 | 4.68 | | 25.69 | 233.2 | .225 |
| 153 | 7.71 | 33.875 | 2.98 | | 100 | 8.48 | 33.59 | 3.77 | | 26.12 | 192.5 | .278 |
| 208 | 7.38 | 33.986 | 2.23 | | 150 | 7.73 | 33.87 | 3.01 | | 26.45 | 161.6 | .367 |
| 309 | 6.31 | 34.041 | 1.49 | | 200 | 7.42 | 33.98 | 2.33 | | 26.58 | 150.1 | .445 |
| 411 | 5.52 | 34.112 | .89 | | 250 | 6.95 | 34.02 | 1.86 | | 26.68 | 141.3 | .518 |
| 516 | 4.94 | 34.188 | .51 | | 300 | 6.41 | 34.04 | 1.54 | | 26.77 | 133.4 | .586 |
| 621 | 4.55 | 34.264 | .38 | | 400 | 5.59 | 34.10 | .95 | | 26.92 | 119.8 | .713 |
| 824 | 4.08 | 34.363 | .33 | | 500 | 5.01 | 34.18 | .55 | | 27.05 | 107.8 | .826 |
| 1024 | 3.50 | 34.423 | .42 | | 600 | 4.62 | 34.25 | .39 | | 27.15 | 99.2 | .930 |
| | | | | | 700 | 4.35 | 34.30 | .34 | | 27.22 | 92.7 | 1.026 |
| | | | | | 800 | 4.13 | 34.34 | .34 | | 27.28 | 87.8 | 1.116 |
| | | | | | 1000 | 3.58 | 34.42 | .40 | | 27.39 | 77.9 | 1.282 |
| CH125 43 20.5 N 127 13.3 W DATE 20 MAY 63 0828 GCT WIRE 18 DRY 53.0 WET 50.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 30 KTS BAR 16 SWELL DIRECTION 35 H 08 T 06 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.19 | 32.678 | 6.27 | | 0 | 12.19 | 32.68 | 6.28 | | 24.78 | 318.3 | 0 |
| 9 | 12.19 | 32.680 | 7.03 | | 10 | 12.19 | 32.68 | 6.98 | | 24.78 | 318.6 | .032 |
| 18 | 12.20 | 32.685 | 6.36 | | 20 | 12.19 | 32.68 | 6.32 | | 24.78 | 318.7 | .064 |
| 28 | 12.17 | 32.681 | 6.30 | | 30 | 12.07 | 32.69 | 6.30 | | 24.81 | 316.4 | .095 |
| 47 | 10.93 | 32.731 | 6.28 | | 50 | 10.79 | 32.76 | 6.18 | | 25.10 | 289.3 | .156 |
| 73 | 9.81 | 33.071 | 5.09 | | 75 | 9.70 | 33.11 | 4.98 | | 25.55 | 246.2 | .223 |
| 100 | 8.41 | 33.560 | 3.85 | | 100 | 8.41 | 33.56 | 3.85 | | 26.11 | 193.3 | .278 |
| 148 | 7.58 | 33.878 | 3.95 | | 150 | 7.56 | 33.89 | 3.93 | | 26.49 | 158.1 | .366 |
| 201 | 7.20 | 34.006 | | | 200 | 7.20 | 34.01 | 3.38 | | 26.63 | 145.1 | .441 |
| 299 | 6.29 | 34.017 | 1.87 | | 250 | 6.76 | 34.01 | 2.69 | | 26.70 | 139.4 | .513 |
| 399 | 5.39 | 34.091 | 1.06 | | 300 | 6.28 | 34.02 | 1.86 | | 26.77 | 133.4 | .581 |
| 501 | 5.03 | 34.162 | .67 | | 400 | 5.39 | 34.09 | 1.05 | | 26.94 | 118.1 | .706 |
| 602 | 4.59 | 34.222 | .48 | | 500 | 5.03 | 34.16 | .67 | | 27.03 | 109.2 | .820 |
| 794 | 4.00 | 34.336 | .39 | | 600 | 4.60 | 34.22 | .48 | | 27.13 | 101.2 | .925 |
| 985 | 3.53 | 34.411 | .39 | | 700 | 4.26 | 34.28 | .41 | | 27.22 | 93.2 | 1.022 |
| | | | | | 800 | 3.98 | 34.34 | .39 | | 27.29 | 86.6 | 1.112 |
| | | | | | 1000 | 3.49 | 34.42 | .39 | | 27.40 | 76.8 | 1.275 |
| CH145 43 20.5 N 127 40.6 W DATE 20 MAY 63 1240 GCT WIRE 10 DRY 52.5 WET 49.8 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 35 KTS BAR 14 SWELL DIRECTION 34 H 08 T 06 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.77 | 32.616 | 6.34 | | 0 | 11.77 | 32.62 | 6.34 | | 24.81 | 315.4 | 0 |
| 10 | 11.76 | 32.618 | 6.31 | | 10 | 11.76 | 32.62 | 6.32 | | 24.81 | 315.3 | .032 |
| 20 | 11.77 | 32.615 | 6.19 | | 20 | 11.77 | 32.62 | 6.19 | | 24.81 | 315.9 | .063 |
| 29 | 11.23 | 32.638 | 6.31 | | 30 | 11.20 | 32.64 | 6.31 | | 24.93 | 304.6 | .094 |
| 49 | 10.79 | 32.686 | 6.13 | | 50 | 10.76 | 32.69 | 6.13 | | 25.05 | 294.0 | .154 |
| 76 | 9.87 | 32.754 | 5.73 | | 75 | 9.91 | 32.75 | 5.76 | | 25.24 | 276.2 | .225 |
| 103 | 8.80 | 33.276 | 4.04 | | 100 | 8.91 | 33.21 | 4.24 | | 25.76 | 226.9 | .288 |
| 153 | 8.06 | 33.849 | 3.19 | | 150 | 8.08 | 33.83 | 3.20 | | 26.37 | 169.7 | .387 |
| 208 | 7.27 | 33.964 | 2.56 | | 200 | 7.38 | 33.95 | 2.63 | | 26.56 | 151.8 | .468 |
| 309 | 6.17 | 33.982 | 2.20 | | 250 | 6.77 | 33.97 | 2.38 | | 26.67 | 142.4 | .541 |
| 411 | 5.38 | 34.046 | 1.27 | | 300 | 6.25 | 33.98 | 2.22 | | 26.74 | 135.8 | .611 |
| 515 | 4.59 | 34.090 | .89 | | 400 | 5.46 | 34.04 | 1.37 | | 26.89 | 123.0 | .740 |
| 619 | 4.53 | 34.228 | .48 | | 500 | 4.68 | 34.08 | .93 | | 27.01 | 111.0 | .857 |
| 819 | 3.96 | 34.349 | .30 | | 600 | 4.54 | 34.20 | .55 | | 27.12 | 101.9 | .963 |
| | | | | | 700 | 4.37 | 34.30 | .31 | | 27.22 | 93.2 | 1.061 |
| | | | | | 800 | 4.04 | 34.35 | .32 | | 27.29 | 86.7 | 1.151 |
| NH005 44 38.0 N 124 10.5 W DATE 24 MAY 63 0915 GCT WIRE 10 DRY 0 WET 53.9 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 08 KTS BAR 18 SWELL DIRECTION 31 H 03 T 07 CLOUD 08 AMT 01 WEATHER - | | | | | | | | | | | | |
| 0 | 10.57 | 32.254 | | | 0 | 10.57 | 32.26 | | | 24.74 | 321.8 | 0 |
| 10 | 9.64 | 32.811 | | | 10 | 9.64 | 32.82 | | | 25.33 | 265.9 | .029 |
| 20 | 9.35 | 33.005 | | | 20 | 9.35 | 33.01 | | | 25.53 | 247.2 | .055 |
| 30 | 9.10 | 33.320 | | | 30 | 9.10 | 33.33 | | | 25.82 | 220.2 | .078 |
| 49 | 8.66 | 33.592 | | | 50 | 10.76 | 32.69 | | | 25.05 | 294.0 | .130 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH015 44 39.4 N 124 23.4 W DATE 24 MAY 63 1105 GCT WIRE - DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 18 KTS BAR 18 SWELL DIRECTION 33 H 03 T 07 CLOUD 08 AMT 02 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.75 | 30.838 | | | 0 | 11.75 | 30.84 | | | 23.44 | 446.3 | 0 |
| 10 | 11.18 | 31.842 | | | 10 | 11.18 | 31.85 | | | 24.32 | 362.6 | .040 |
| 20 | 10.42 | 32.382 | | | 20 | 10.42 | 32.39 | | | 24.87 | 310.3 | .074 |
| 30 | 10.32 | 32.438 | | | 30 | 10.32 | 32.44 | | | 24.93 | 304.7 | .105 |
| 40 | 10.18 | 32.456 | | | 50 | 9.75 | 32.61 | | | 25.15 | 283.6 | .164 |
| 50 | 9.75 | 32.605 | | | 75 | 9.91 | 32.75 | | | 25.24 | 276.2 | .234 |
| NH025 44 39.1 N 124 38.6 W DATE 25 MAY 63 0540 GCT WIRE 12 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 28 KTS BAR 22 SWELL DIRECTION 35 H 08 T 06 CLOUD - AMT - WEATHER - | | | | | | | | | | | | |
| 0 | 12.72 | 30.422 | | | 0 | 12.72 | 30.43 | | | 22.94 | 494.2 | 0 |
| 10 | 11.18 | 30.839 | | | 10 | 11.18 | 30.84 | | | 23.54 | 436.7 | .047 |
| 20 | 10.98 | 32.357 | | | 20 | 10.98 | 32.36 | | | 24.75 | 321.4 | .084 |
| 30 | 10.43 | 32.417 | | | 30 | 10.43 | 32.42 | | | 24.89 | 308.0 | .116 |
| 49 | 9.89 | | | | 50 | 9.87 | 32.64 | | | 25.16 | 283.3 | .175 |
| 74 | 9.35 | 33.035 | | | 75 | 9.32 | 33.06 | | | 25.57 | 244.1 | .241 |
| 98 | 8.68 | 33.539 | | | 100 | 8.65 | 33.56 | | | 26.08 | 196.8 | .296 |
| 147 | 8.07 | 33.841 | | | 150 | 8.03 | 33.85 | | | 26.39 | 167.2 | .387 |
| 197 | 7.43 | 33.940 | | | 200 | 7.39 | 33.94 | | | 26.56 | 152.5 | .447 |
| NH035 44 39.6 N 124 53.6 W DATE 25 MAY 63 0848 GCT WIRE 08 DRY 52.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 27 KTS BAR 23 SWELL DIRECTION 33 H 06 T 03 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.03 | 29.929 | | | 0 | 13.03 | 29.93 | | | 22.50 | 536.1 | 0 |
| 10 | 13.05 | 29.964 | | | 10 | 13.05 | 29.97 | | | 22.52 | 534.1 | .054 |
| 20 | 11.61 | 32.134 | | | 20 | 11.61 | 32.14 | | | 24.47 | 348.6 | .098 |
| 30 | 10.55 | 32.389 | | | 30 | 10.55 | 32.39 | | | 24.85 | 312.0 | .131 |
| 49 | 9.99 | 32.605 | | | 50 | 9.97 | 32.62 | | | 25.13 | 286.1 | .190 |
| 74 | 9.39 | 33.044 | | | 75 | 9.36 | 33.06 | | | 25.57 | 244.4 | .257 |
| 99 | 8.62 | 33.438 | | | 100 | 8.60 | 33.45 | | | 25.99 | 204.6 | .313 |
| 198 | 7.34 | 33.958 | | | 150 | 7.76 | 33.84 | | | 26.42 | 164.6 | .405 |
| 296 | 6.41 | 34.054 | | | 200 | 7.32 | 33.96 | | | 26.58 | 149.8 | .484 |
| 395 | 5.71 | 34.111 | | | 250 | 6.81 | 34.04 | | | 26.71 | 138.1 | .556 |
| | | | | | 300 | 6.38 | 34.06 | | | 26.79 | 131.7 | .623 |
| | | | | | 400 | 5.67 | 34.11 | | | 26.92 | 120.0 | .749 |
| NH045 44 39.0 N 125 6.7 W DATE 25 MAY 63 1105 GCT WIRE 21 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 28 KTS BAR 23 SWELL DIRECTION 33 H 06 T 05 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.08 | 30.521 | | | 0 | 13.08 | 30.53 | | | 22.95 | 493.4 | 0 |
| 9 | 13.05 | 30.539 | | | 10 | 13.01 | 30.68 | | | 23.08 | 481.1 | .049 |
| 18 | 12.45 | 31.916 | | | 20 | 12.20 | 32.10 | | | 24.33 | 361.6 | .091 |
| 28 | 11.19 | 32.578 | | | 30 | 11.08 | 32.58 | | | 24.91 | 306.9 | .124 |
| 48 | 10.60 | 32.608 | | | 50 | 10.53 | 32.63 | | | 25.04 | 294.8 | .184 |
| 72 | 9.75 | 32.989 | | | 75 | 9.63 | 33.07 | | | 25.54 | 247.6 | .252 |
| 96 | 8.81 | 33.683 | | | 100 | 8.72 | 33.74 | | | 26.20 | 185.0 | .306 |
| 193 | 7.62 | 33.970 | | | 150 | 7.88 | 33.84 | | | 26.41 | 165.8 | .394 |
| 289 | 6.55 | 34.031 | | | 200 | 7.53 | 33.98 | | | 26.57 | 151.7 | .473 |
| 386 | 5.82 | 34.126 | | | 250 | 6.96 | 34.02 | | | 26.68 | 141.5 | .547 |
| 483 | 4.92 | 34.187 | | | 300 | 6.46 | 34.04 | | | 26.76 | 133.9 | .615 |
| | | | | | 400 | 5.70 | 34.14 | | | 26.94 | 118.7 | .742 |
| NH065 44 39.1 N 125 35.0 W DATE 25 MAY 63 1600 GCT WIRE 10 DRY 53.0 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 24 KTS BAR 23 SWELL DIRECTION 31 H 08 T 08 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.77 | 32.176 | | | 0 | 12.77 | 32.18 | | | 24.28 | 365.9 | 0 |
| 10 | 12.77 | 32.185 | | | 10 | 12.77 | 32.19 | | | 24.29 | 365.4 | .037 |
| 19 | 12.70 | 32.266 | | | 20 | 12.61 | 32.31 | | | 24.41 | 354.0 | .073 |
| 28 | 11.78 | 32.647 | | | 30 | 11.66 | 32.65 | | | 24.85 | 312.0 | .106 |
| 48 | 10.93 | 32.646 | | | 50 | 10.85 | 32.67 | | | 25.01 | 297.3 | .167 |
| 96 | 9.34 | 33.292 | | | 75 | 9.97 | 32.96 | | | 25.39 | 261.4 | .237 |
| 144 | 8.16 | 33.808 | | | 100 | 9.24 | 33.34 | | | 25.81 | 221.9 | .297 |
| 191 | 7.16 | 33.953 | | | 150 | 7.99 | 33.84 | | | 26.39 | 167.4 | .394 |
| 287 | 6.34 | 34.060 | | | 200 | 6.89 | 33.99 | | | 26.67 | 141.9 | .472 |
| 384 | 5.83 | 34.114 | | | 250 | 6.44 | 34.05 | | | 26.77 | 132.2 | .540 |
| 482 | 5.32 | 34.150 | | | 300 | 6.26 | 34.07 | | | 26.81 | 129.4 | .605 |
| 580 | 4.94 | 34.227 | | | 400 | 5.74 | 34.12 | | | 26.92 | 120.5 | .730 |
| 776 | 4.27 | 34.331 | | | 500 | 5.24 | 34.16 | | | 27.01 | 111.6 | .846 |
| 971 | 3.69 | 34.402 | | | 600 | 4.87 | 34.24 | | | 27.12 | 102.9 | .954 |
| 1170 | 3.23 | 34.466 | | | 700 | 4.52 | 34.30 | | | 27.20 | 95.2 | 1.053 |
| | | | | | 800 | 4.19 | 34.34 | | | 27.27 | 88.9 | 1.145 |
| | | | | | 1000 | 3.61 | 34.41 | | | 27.38 | 78.6 | 1.312 |
| | | | | | 1200 | 3.16 | 34.48 | | | 27.48 | 69.7 | 1.460 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH085 44 39.2 N 126 4.0 W DATE 25 MAY 63 2115 GCT WIRE 05 DRY 54.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 18 KTS BAR 23 SWELL DIRECTION 34 H 04 T 05 CLOUD 08 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.38 | 32.581 | | | 0 | 12.38 | 32.59 | | | 24.67 | 328.9 | 0 |
| 10 | 12.39 | 32.593 | | | 10 | 12.39 | 32.60 | | | 24.68 | 328.4 | .033 |
| 20 | 11.82 | 32.623 | | | 20 | 11.82 | 32.63 | | | 24.81 | 316.2 | .065 |
| 30 | 10.80 | 32.587 | | | 30 | 10.80 | 32.59 | | | 24.96 | 301.5 | .096 |
| 49 | 10.54 | 32.626 | | | 50 | 10.51 | 32.64 | | | 25.05 | 293.6 | .155 |
| 98 | 8.88 | 33.340 | | | 75 | 9.71 | 32.97 | | | 25.44 | 256.6 | .224 |
| 148 | 7.86 | 33.743 | | | 100 | 8.83 | 33.36 | | | 25.89 | 214.5 | .283 |
| 199 | 7.56 | 33.937 | | | 150 | 7.84 | 33.75 | | | 26.34 | 171.8 | .380 |
| 297 | 6.20 | 33.970 | | | 200 | 7.55 | 33.94 | | | 26.53 | 154.8 | .461 |
| 397 | 5.42 | 34.067 | | | 250 | 6.88 | 33.95 | | | 26.64 | 145.2 | .536 |
| 496 | 4.68 | 34.112 | | | 300 | 6.17 | 33.97 | | | 26.75 | 135.3 | .606 |
| 596 | 4.43 | 34.185 | | | 400 | 5.39 | 34.07 | | | 26.92 | 120.0 | .734 |
| 794 | 4.02 | 34.331 | | | 500 | 4.66 | 34.11 | | | 27.04 | 108.3 | .848 |
| 994 | 3.57 | 34.415 | | | 600 | 4.42 | 34.19 | | | 27.12 | 101.5 | .953 |
| 1195 | 3.08 | 34.477 | | | 700 | 4.21 | 34.27 | | | 27.21 | 93.9 | 1.051 |
| | | | | | 800 | 4.01 | 34.33 | | | 27.28 | 87.2 | 1.141 |
| | | | | | 1000 | 3.56 | 34.42 | | | 27.39 | 77.5 | 1.306 |
| | | | | | 1200 | 3.07 | 34.48 | | | 27.49 | 68.4 | 1.451 |
| NH105 44 39.3 N 126 30.9 W DATE 26 MAY 63 0125 GCT WIRE 03 DRY 53.0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 25 KTS BAR 22 SWELL DIRECTION 33 H 08 T 08 CLOUD 04 AMT 03 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.07 | 32.560 | | | 0 | 12.07 | 32.56 | | | 24.71 | 324.9 | 0 |
| 10 | 12.06 | 32.560 | | | 10 | 12.06 | 32.56 | | | 24.71 | 324.9 | .032 |
| 15 | 12.05 | 32.553 | | | 20 | 11.96 | 32.55 | | | 24.72 | 324.1 | .065 |
| 20 | 11.96 | 32.549 | | | 30 | 10.93 | 32.56 | | | 24.92 | 305.8 | .096 |
| 30 | 10.93 | 32.559 | | | 50 | 9.93 | 32.55 | | | 25.08 | 290.9 | .156 |
| 50 | 9.93 | 32.544 | | | 75 | 9.40 | 33.03 | | | 25.54 | 247.5 | .223 |
| 75 | 9.40 | 33.024 | | | 100 | 8.54 | 33.47 | | | 26.02 | 202.4 | .280 |
| 100 | 8.54 | 33.463 | | | 150 | 7.67 | 33.85 | | | 26.44 | 162.3 | .371 |
| 200 | 7.26 | 33.927 | | | 200 | 7.27 | 33.93 | | | 26.57 | 151.3 | .449 |
| 299 | 6.21 | 33.996 | | | 250 | 6.70 | 33.99 | | | 26.69 | 140.4 | .522 |
| 399 | 5.49 | 34.071 | | | 300 | 6.20 | 34.00 | | | 26.76 | 133.9 | .591 |
| 498 | 4.99 | 34.138 | | | 400 | 5.48 | 34.07 | | | 26.91 | 120.8 | .718 |
| 597 | 4.59 | 34.215 | | | 500 | 4.98 | 34.14 | | | 27.02 | 110.2 | .833 |
| 795 | 4.01 | 34.325 | | | 600 | 4.58 | 34.22 | | | 27.13 | 101.2 | .939 |
| 995 | 3.60 | 34.412 | | | 700 | 4.26 | 34.28 | | | 27.21 | 93.6 | 1.036 |
| | | | | | 800 | 4.00 | 34.33 | | | 27.28 | 87.6 | 1.127 |
| | | | | | 1000 | 3.59 | 34.41 | | | 27.39 | 78.1 | 1.292 |
| NH125 44 38.9 N 126 55.0 W DATE 26 MAY 63 2030 GCT WIRE - DRY 50.5 WET 54.5 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 08 KTS BAR 23 SWELL DIRECTION 33 H 02 T 05 CLOUD 08 AMT 05 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.20 | 32.555 | | | 0 | 12.20 | 32.56 | | | 24.68 | 327.6 | 0 |
| 10 | 12.10 | 32.549 | | | 10 | 12.10 | 32.55 | | | 24.70 | 326.4 | .033 |
| 20 | 12.08 | 32.548 | | | 20 | 12.08 | 32.55 | | | 24.70 | 326.3 | .065 |
| 30 | 12.07 | 32.548 | | | 30 | 12.07 | 32.55 | | | 24.70 | 326.4 | .098 |
| 50 | 10.54 | 32.492 | | | 50 | 10.54 | 32.50 | | | 24.93 | 304.6 | .161 |
| 75 | 9.46 | 32.576 | | | 75 | 9.46 | 32.58 | | | 25.18 | 281.6 | .234 |
| 100 | 8.51 | 33.378 | | | 100 | 8.51 | 33.38 | | | 25.95 | 208.2 | .296 |
| 149 | 7.89 | 33.848 | | | 150 | 7.88 | 33.85 | | | 26.42 | 165.1 | .389 |
| 200 | 7.38 | 33.931 | | | 200 | 7.39 | 33.94 | | | 26.55 | 152.7 | .468 |
| 299 | 6.24 | 33.991 | | | 250 | 6.80 | 33.97 | | | 26.66 | 143.1 | .542 |
| 399 | 5.34 | 34.070 | | | 300 | 6.23 | 33.99 | | | 26.75 | 134.6 | .612 |
| 498 | 4.87 | 34.159 | | | 400 | 5.33 | 34.07 | | | 26.93 | 119.1 | .738 |
| 598 | 4.44 | 34.261 | | | 500 | 4.86 | 34.16 | | | 27.05 | 107.1 | .851 |
| 796 | 3.93 | 34.360 | | | 600 | 4.43 | 34.26 | | | 27.18 | 96.1 | .953 |
| 993 | 3.48 | 34.450 | | | 700 | 4.15 | 34.32 | | | 27.26 | 89.0 | 1.046 |
| | | | | | 800 | 3.92 | 34.36 | | | 27.31 | 84.1 | 1.132 |
| | | | | | 1000 | 3.46 | 34.45 | | | 27.43 | 73.8 | 1.290 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH145 44 39.0 N 127 27.1 W DATE 26 MAY 63 1115 GCT WIRE 5 DRY 53.0 WET 51.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 15 KTS BAR 22 SWELL DIRECTION 32 H 04 T 05 CLOUD - AMT - WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.14 | 32.553 | | | 0 | 12.14 | 32.56 | | | 24.69 | 326.7 | 0 |
| 10 | 12.12 | 32.576 | | | 10 | 12.13 | 32.58 | | | 24.72 | 324.8 | .033 |
| 20 | 12.12 | 32.603 | | | 20 | 12.13 | 32.61 | | | 24.74 | 323.0 | .065 |
| 30 | 10.27 | 32.537 | | | 30 | 10.27 | 32.54 | | | 25.02 | 296.5 | .096 |
| 49 | 9.91 | 32.536 | | | 50 | 9.88 | 32.54 | | | 25.08 | 290.4 | .155 |
| 98 | 8.34 | 33.166 | | | 75 | 9.11 | 32.82 | | | 25.42 | 258.4 | .223 |
| 148 | 7.18 | 33.684 | | | 100 | 8.28 | 33.19 | | | 25.84 | 219.1 | .283 |
| 199 | 6.96 | 33.903 | | | 150 | 7.16 | 33.70 | | | 26.40 | 166.7 | .379 |
| 297 | 5.96 | 33.962 | | | 200 | 6.95 | 33.90 | | | 26.59 | 149.1 | .458 |
| 397 | 5.30 | 34.061 | | | 250 | 6.47 | 33.96 | | | 26.70 | 139.2 | .530 |
| 496 | 4.52 | 34.108 | | | 300 | 5.94 | 33.97 | | | 26.77 | 132.9 | .598 |
| 596 | 4.29 | 34.209 | | | 400 | 5.27 | 34.06 | | | 26.93 | 118.9 | .724 |
| 796 | 3.80 | 34.319 | | | 500 | 4.51 | 34.11 | | | 27.05 | 106.7 | .837 |
| 997 | 3.40 | 34.405 | | | 600 | 4.28 | 34.21 | | | 27.16 | 98.1 | .939 |
| 1198 | 3.02 | 34.469 | | | 700 | 4.03 | 34.28 | | | 27.23 | 91.1 | 1.034 |
| | | | | | 800 | 3.79 | 34.32 | | | 27.29 | 85.7 | 1.122 |
| | | | | | 1000 | 3.39 | 34.41 | | | 27.40 | 76.5 | 1.284 |
| | | | | | 1200 | 3.02 | 34.47 | | | 27.49 | 68.5 | 1.429 |
| NH160 44 39.1 N 127 48.0 W DATE 26 MAY 63 1439 GCT WIRE 02 DRY 52.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 10 KTS BAR 23 SWELL DIRECTION 34 H 04 T 08 CLOUD 06 AMT 06 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.06 | 32.578 | | | 0 | 12.06 | 32.58 | | | 24.73 | 323.4 | 0 |
| 10 | 12.05 | 32.575 | | | 10 | 12.05 | 32.58 | | | 24.73 | 323.6 | .032 |
| 20 | 12.06 | 32.571 | | | 20 | 12.06 | 32.58 | | | 24.72 | 324.3 | .065 |
| 30 | 10.51 | 32.531 | | | 30 | 10.51 | 32.54 | | | 24.97 | 300.9 | .096 |
| 50 | 10.26 | 32.557 | | | 50 | 10.26 | 32.56 | | | 25.03 | 295.2 | .156 |
| 100 | 8.29 | 32.867 | | | 75 | 9.28 | 32.65 | | | 25.26 | 273.6 | .227 |
| 149 | 8.15 | 33.786 | | | 100 | 8.29 | 32.87 | | | 25.59 | 243.0 | .291 |
| 200 | 7.17 | 33.891 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .395 |
| 299 | 5.77 | 33.936 | | | 200 | 7.18 | 33.90 | | | 26.55 | 152.8 | .477 |
| 399 | 4.96 | 33.981 | | | 250 | 6.38 | 33.93 | | | 26.68 | 140.7 | .550 |
| 498 | 4.51 | 34.100 | | | 300 | 5.76 | 33.94 | | | 26.77 | 132.9 | .618 |
| 598 | 4.25 | 34.169 | | | 400 | 4.95 | 33.98 | | | 26.90 | 121.1 | .745 |
| 795 | 3.83 | 34.308 | | | 500 | 4.50 | 34.10 | | | 27.05 | 107.4 | .860 |
| 989 | 3.47 | 34.407 | | | 600 | 4.25 | 34.17 | | | 27.13 | 100.8 | .964 |
| 1190 | 3.08 | 34.463 | | | 700 | 4.02 | 34.24 | | | 27.21 | 93.4 | 1.061 |
| | | | | | 800 | 3.82 | 34.31 | | | 27.28 | 86.7 | 1.151 |
| | | | | | 1000 | 3.45 | 34.41 | | | 27.40 | 76.7 | 1.314 |
| | | | | | 1200 | 3.06 | 34.46 | | | 27.47 | 70.1 | 1.461 |
| NHX125 44 38.9 N 126 55.0 W DATE 26 MAY 63 1950 GCT WIRE - DRY 50.5 WET 54.5 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 08 KTS BAR 23 SWELL DIRECTION 33 H 02 T 05 CLOUD 08 AMT 05 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.04 | 32.543 | | | 0 | 12.04 | 32.55 | | | 24.70 | 325.6 | 0 |
| 5 | 12.01 | 32.545 | | | 10 | 11.97 | 32.54 | | | 24.72 | 324.8 | .033 |
| 10 | 11.97 | 32.540 | | | 20 | 11.95 | 32.54 | | | 24.72 | 324.7 | .065 |
| 20 | 11.95 | 32.539 | | | 30 | 10.52 | 32.48 | | | 24.92 | 305.4 | .096 |
| 30 | 10.52 | 32.472 | | | 50 | 10.26 | 32.52 | | | 25.00 | 298.3 | .157 |
| 50 | 10.26 | 32.516 | | | 75 | 9.54 | 32.86 | | | 25.38 | 262.4 | .227 |
| 75 | | 32.852 | | | 100 | 8.39 | 33.45 | | | 26.03 | 201.4 | .285 |
| 100 | 8.39 | 33.446 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .378 |
| NH 5 44 39.1 N 124 10.6 W DATE 19 JUN 63 1745 GCT WIRE 0 DRY 60.5 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 0 KTS BAR 21 SWELL DIRECTION 32 H 1 T 1 CLOUD 3 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.40 | 33.410 | | | 0 | 10.40 | 33.42 | | | 25.67 | 233.6 | 0 |
| 3 | 9.17 | 33.410 | | | 10 | 8.50 | 33.58 | | | 26.11 | 192.5 | .021 |
| 5 | 8.60 | 33.520 | | | 20 | 8.01 | 33.70 | | | 26.27 | 176.7 | .040 |
| 10 | 8.50 | 33.570 | | | 30 | 7.68 | 33.80 | | | 26.41 | 163.9 | .057 |
| 20 | 8.01 | 33.690 | | | 50 | 7.08 | 33.93 | | | 26.60 | 146.5 | .088 |
| 30 | 7.67 | 33.800 | | | 75 | 9.54 | 32.86 | | | 25.38 | 262.4 | .139 |
| 40 | 7.36 | 33.860 | | | 100 | 8.39 | 33.45 | | | 26.03 | 201.4 | .197 |
| 50 | 7.08 | 33.930 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .290 |
| NH20 44 39.0 N 124 31.6 W DATE 19 JUN 63 2120 GCT WIRE 0 DRY 59.5 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 4 KTS BAR 22 SWELL DIRECTION 34 H 1 T 2 CLOUD 4 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.35 | 31.830 | | | 0 | 12.35 | 31.83 | | | 24.10 | 383.7 | 0 |
| 5 | 11.24 | 31.950 | | | 10 | 10.66 | 32.09 | | | 24.60 | 335.6 | .036 |
| 10 | 10.66 | 32.090 | | | 20 | 9.63 | 32.28 | | | 24.92 | 305.3 | .068 |
| 20 | 9.63 | 32.280 | | | 30 | 9.49 | 32.33 | | | 24.98 | 299.6 | .098 |
| 30 | 9.49 | 32.330 | | | 50 | 8.38 | 32.92 | | | 25.62 | 239.6 | .152 |
| 50 | 8.38 | 32.920 | | | 75 | 8.13 | 33.43 | | | 26.05 | 198.5 | .207 |
| 75 | 8.13 | 33.430 | | | 100 | 7.55 | 33.74 | | | 26.37 | 168.3 | .253 |
| 100 | 7.54 | 33.730 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .338 |
| 130 | 6.89 | 33.900 | | | 200 | 7.18 | 33.90 | | | 26.55 | 152.8 | .420 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH15 44 38.5 N 124 26.0 W DATE 19 JUN 63 2000 GCT WIRE 0 DRY 60.5 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 5 KTS BAR 22 SWELL DIRECTION 34 H 1 T 1 CLOUD 4 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.40 | 31.760 | | | 0 | 14.40 | 31.76 | | | 23.63 | 427.6 | 0 |
| 5 | 12.53 | 32.160 | | | 10 | 10.36 | 32.28 | | | 24.80 | 316.7 | .037 |
| 10 | 10.36 | 32.280 | | | 20 | 9.30 | 32.39 | | | 25.06 | 292.1 | .068 |
| 20 | 9.30 | 32.390 | | | 30 | 8.86 | 32.67 | | | 25.35 | 264.9 | .095 |
| 30 | 8.86 | 32.670 | | | 50 | 8.35 | 33.07 | | | 25.73 | 228.5 | .145 |
| 40 | 8.65 | 32.810 | | | 75 | 7.73 | 33.66 | | | 26.29 | 176.3 | .195 |
| 60 | 8.04 | 33.350 | | | 100 | 7.55 | 33.74 | | | 26.37 | 168.3 | .238 |
| 80 | 7.65 | 33.740 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .324 |
| NH20 44 34.2 N 124 34.4 W DATE 21 JUN 63 0235 GCT WIRE 10 DRY 58.0 WET 53.5 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 20 KTS BAR 16 SWELL DIRECTION 27 H 3 T 3 CLOUD 5 AMT 8 WEATHER 16 | | | | | | | | | | | | |
| 0 | 13.48 | 31.670 | | | 0 | 13.48 | 31.67 | | | 23.75 | 416.4 | 0 |
| 5 | 13.43 | 31.650 | | | 10 | 11.84 | 31.82 | | | 24.18 | 375.6 | .040 |
| 10 | 11.84 | 31.820 | | | 20 | 9.91 | 32.21 | | | 24.82 | 315.2 | .074 |
| 19 | 10.02 | 32.180 | | | 30 | 9.31 | 32.43 | | | 25.09 | 289.8 | .104 |
| 29 | 9.32 | 32.410 | | | 50 | 8.54 | 32.90 | | | 25.57 | 243.9 | .158 |
| 39 | 9.22 | 32.600 | | | 75 | 8.06 | 33.48 | | | 26.10 | 193.9 | .212 |
| 49 | 8.58 | 32.870 | | | 100 | 7.69 | 33.76 | | | 26.37 | 168.7 | .258 |
| 73 | 8.08 | 33.450 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .343 |
| 98 | 7.73 | 33.740 | | | 200 | 7.18 | 33.90 | | | 26.55 | 152.8 | .425 |
| 128 | 6.81 | 33.880 | | | 250 | 6.38 | 33.93 | | | 26.68 | 140.7 | .498 |
| NH20 44 24.2 N 124 34.5 W DATE 21 JUN 63 0537 GCT WIRE 10 DRY 58.0 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 29 VEL 15 KTS BAR - SWELL DIRECTION - H - T - CLOUD 4 AMT 7 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.54 | 32.104 | | | 0 | 12.54 | 32.11 | | | 24.27 | 366.9 | 0 |
| 5 | 12.56 | 32.095 | | | 10 | 11.10 | 32.15 | | | 24.57 | 338.8 | .035 |
| 10 | 11.10 | 32.146 | | | 20 | 9.86 | 32.35 | | | 24.93 | 304.2 | .067 |
| 19 | 9.92 | 32.317 | | | 30 | 9.53 | 32.62 | | | 25.20 | 279.2 | .097 |
| 29 | 9.54 | 32.603 | | | 50 | 8.35 | 33.02 | | | 25.69 | 232.3 | .148 |
| 39 | 9.28 | 32.733 | | | 75 | 8.08 | 33.60 | | | 26.19 | 185.4 | .200 |
| 49 | 8.38 | 32.987 | | | 100 | 7.69 | 33.76 | | | 26.37 | 168.7 | .244 |
| 68 | 8.17 | 33.480 | | | 150 | 8.13 | 33.79 | | | 26.33 | 173.1 | .330 |
| 88 | 7.90 | 33.741 | | | 200 | 7.18 | 33.90 | | | 26.55 | 152.8 | .411 |
| NH005 44 39.1 N 124 10.6 W DATE 16 JUL 63 1807 GCT WIRE 00 DRY 55.3 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 05 KTS BAR 16 SWELL DIRECTION 31 H 03 T 07 CLOUD 01 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.15 | 32.899 | 6.21 | | 0 | 11.15 | 32.90 | 6.21 | | 25.14 | 283.8 | 0 |
| 10 | 8.51 | 33.567 | 2.80 | | 10 | 8.51 | 33.57 | 2.80 | | 26.10 | 192.8 | .024 |
| 20 | 7.49 | 33.905 | 1.58 | | 20 | 7.49 | 33.91 | 1.58 | | 26.52 | 153.5 | .041 |
| 30 | 7.48 | 33.914 | 2.50 | | 30 | 7.48 | 33.92 | 2.51 | | 26.53 | 152.8 | .056 |
| 40 | 7.47 | 33.908 | 1.70 | | 50 | 7.44 | 33.92 | 1.74 | | 26.54 | 152.2 | .087 |
| 50 | 7.44 | 33.919 | 1.74 | | 75 | 8.08 | 33.60 | | | 26.19 | 185.4 | .129 |
| NH015 44 39.5 N 124 24.5 W DATE 16 JUL 63 2102 GCT WIRE 07 DRY 60.1 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 09 KTS BAR 16 SWELL DIRECTION 31 H 03 T 07 CLOUD 04 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.54 | 31.912 | 6.99 | | 0 | 13.54 | 31.92 | 6.99 | | 23.93 | 399.7 | 0 |
| 10 | 9.97 | 32.221 | 6.56 | | 10 | 9.97 | 32.23 | 6.57 | | 24.82 | 314.8 | .036 |
| 20 | 8.69 | 32.549 | 5.09 | | 20 | 8.69 | 32.55 | 5.09 | | 25.28 | 271.2 | .065 |
| 30 | 8.30 | 32.822 | 4.63 | | 30 | 8.30 | 32.83 | 4.64 | | 25.55 | 245.5 | .091 |
| 40 | 8.28 | 33.090 | 4.41 | | 50 | 8.04 | 33.30 | 4.04 | | 25.96 | 206.9 | .136 |
| 50 | 8.04 | 33.295 | 4.03 | | 75 | 8.08 | 33.60 | | | 26.19 | 185.4 | .185 |
| NH025 44 39.7 N 124 39.6 W DATE 16 JUL 63 2307 GCT WIRE 14 DRY 61.8 WET 57.6 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 15 KTS BAR 17 SWELL DIRECTION 35 H 03 T 07 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.21 | 31.575 | 5.99 | | 0 | 16.21 | 31.58 | 5.99 | | 23.10 | 478.6 | 0 |
| 10 | 15.98 | 31.581 | 6.01 | | 10 | 15.98 | 31.59 | 6.02 | | 23.16 | 473.5 | .048 |
| 19 | 13.14 | 32.011 | 6.63 | | 20 | 12.88 | 32.07 | 6.67 | | 24.17 | 376.6 | .090 |
| 29 | 11.02 | 32.495 | 6.79 | | 30 | 10.92 | 32.51 | 6.78 | | 24.88 | 309.6 | .124 |
| 48 | 10.08 | 32.584 | 6.17 | | 50 | 9.94 | 32.62 | 6.03 | | 25.13 | 285.8 | .184 |
| 72 | 8.52 | 33.076 | 4.41 | | 75 | 8.43 | 33.14 | 4.27 | | 25.77 | 224.9 | .248 |
| 94 | 8.06 | 33.485 | 3.55 | | 100 | 7.94 | 33.57 | 3.31 | | 26.19 | 185.8 | .299 |
| 141 | 7.30 | 33.972 | 2.07 | | 150 | 7.20 | 33.98 | 1.94 | | 26.61 | 146.4 | .382 |
| 191 | 6.95 | 33.996 | 1.93 | | 200 | 7.18 | 33.90 | | | 26.55 | 152.8 | .457 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH035 44 39.4 N 124 52.2 W DATE 17 JUL 63 0100 GCT WIRE 04 DRY 61.1 WET 58.7 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 15 KTS BAR 16 SWELL DIRECTION 33 H 03 T 07 CLOUD 06 AMT 06 WEATHER 00 | | | | | | | | | | | | |
| 0 | 15.73 | 31.581 | 6.02 | | 0 | 15.73 | 31.59 | 6.03 | | 23.21 | 468.0 | 0 |
| 10 | 15.29 | 31.568 | 6.12 | | 10 | 15.29 | 31.56 | 6.13 | | 23.29 | 460.7 | .046 |
| 20 | 11.80 | 31.964 | 6.69 | | 20 | 11.80 | 31.97 | 6.69 | | 24.30 | 364.4 | .088 |
| 30 | 10.14 | 32.178 | 5.94 | | 30 | 10.14 | 32.18 | 5.94 | | 24.76 | 321.0 | .122 |
| 50 | 9.25 | 32.541 | 5.49 | | 50 | 9.25 | 32.55 | 5.49 | | 25.19 | 280.6 | .182 |
| 74 | 8.62 | 33.024 | 4.48 | | 75 | 8.60 | 33.05 | 4.43 | | 25.68 | 233.9 | .246 |
| 98 | 8.18 | 33.563 | 3.30 | | 100 | 8.16 | 33.59 | 3.24 | | 26.17 | 187.9 | .299 |
| 147 | 7.77 | 33.869 | 2.51 | | 150 | 7.74 | 33.88 | 2.48 | | 26.46 | 160.8 | .386 |
| 197 | 7.15 | 34.012 | 2.20 | | 200 | 7.11 | 34.02 | 2.18 | | 26.66 | 142.7 | .462 |
| NH045 44 39.3 N 125 7.0 W DATE 17 JUL 63 0335 GCT WIRE 04 DRY 61.0 WET 57.1 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 10 KTS BAR 17 SWELL DIRECTION 33 H 03 T 06 CLOUD 01 AMT 09 WEATHER 03 | | | | | | | | | | | | |
| 0 | 15.97 | 31.383 | 5.96 | | 0 | 15.97 | 31.39 | 5.96 | | 23.01 | 487.5 | 0 |
| 10 | 16.04 | 31.429 | 5.86 | | 10 | 16.04 | 31.43 | 5.86 | | 23.03 | 485.9 | .049 |
| 20 | 12.33 | 32.090 | 6.66 | | 20 | 12.33 | 32.09 | 6.67 | | 24.30 | 364.6 | .091 |
| 30 | 10.80 | 32.452 | 6.64 | | 30 | 10.80 | 32.46 | 6.65 | | 24.86 | 311.5 | .125 |
| 49 | 10.19 | 32.562 | 6.03 | | 50 | 10.14 | 32.58 | 5.99 | | 25.07 | 292.1 | .185 |
| 75 | 8.97 | 33.060 | 5.01 | | 75 | 8.97 | 33.06 | 5.02 | | 25.63 | 238.3 | .252 |
| 103 | 7.97 | 33.467 | 4.35 | | 100 | 8.05 | 33.43 | 4.41 | | 26.06 | 198.1 | .306 |
| 152 | 7.70 | 33.851 | 3.35 | | 150 | 7.71 | 33.84 | 3.38 | | 26.43 | 163.4 | .397 |
| 205 | 7.19 | 33.966 | 2.72 | | 200 | 7.24 | 33.96 | 2.76 | | 26.60 | 148.7 | .475 |
| 307 | 6.05 | 34.008 | 2.43 | | 250 | 6.65 | 34.00 | 2.58 | | 26.70 | 139.1 | .546 |
| 407 | 5.76 | 34.113 | 1.13 | | 300 | 6.12 | 34.01 | 2.45 | | 26.78 | 132.0 | .614 |
| 508 | 5.19 | 34.172 | .70 | | 400 | 5.77 | 34.11 | 1.22 | | 26.90 | 121.9 | .741 |
| 608 | 4.82 | 34.248 | .60 | | 500 | 5.24 | 34.17 | .71 | | 27.02 | 111.2 | .858 |
| | | | | | 600 | 4.84 | 34.24 | .61 | | 27.12 | 102.5 | .964 |
| NH065 44 40.0 N 125 33.0 W DATE 17 JUL 63 0915 GCT WIRE 14 DRY 61.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 12 KTS BAR 18 SWELL DIRECTION 34 H 04 T 07 CLOUD AMT WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.53 | 30.762 | 5.75 | | 0 | 16.53 | 30.77 | 5.76 | | 22.41 | 544.9 | 0 |
| 10 | 16.53 | 30.734 | 5.77 | | 10 | 16.53 | 30.74 | 5.78 | | 22.39 | 547.2 | .055 |
| 20 | 15.40 | 31.378 | 6.17 | | 20 | 15.40 | 31.38 | 6.18 | | 23.13 | 476.4 | .106 |
| 30 | 11.94 | 32.422 | 6.69 | | 30 | 11.94 | 32.43 | 6.69 | | 24.63 | 333.3 | .146 |
| 49 | 10.42 | 32.579 | 6.43 | | 50 | 10.36 | 32.60 | 6.39 | | 25.04 | 294.4 | .209 |
| 102 | 8.59 | 33.474 | 3.84 | | 75 | 9.22 | 33.01 | 5.25 | | 25.55 | 246.3 | .277 |
| 150 | 8.02 | 33.863 | 2.66 | | 100 | 8.62 | 33.44 | 3.95 | | 25.98 | 205.6 | .333 |
| 205 | 7.25 | 33.975 | 2.28 | | 150 | 8.02 | 33.87 | 2.66 | | 26.41 | 165.9 | .426 |
| 304 | 5.95 | 33.970 | 2.20 | | 200 | 7.32 | 33.97 | 2.29 | | 26.59 | 149.0 | .505 |
| 403 | 5.23 | | 1.34 | | 250 | 6.62 | 33.97 | 2.24 | | 26.69 | 140.3 | .577 |
| 504 | 4.81 | 34.118 | .79 | | 300 | 6.00 | 33.97 | 2.20 | | 26.77 | 133.1 | .645 |
| 605 | 4.36 | 34.175 | .52 | | 400 | 5.25 | 34.03 | 1.37 | | 26.91 | 121.0 | .772 |
| 805 | 4.08 | 34.339 | .26 | | 500 | 4.82 | 34.11 | .81 | | 27.02 | 110.2 | .888 |
| 1009 | 3.53 | 34.412 | .31 | | 600 | 4.38 | 34.17 | .53 | | 27.12 | 102.2 | .994 |
| 1213 | 3.12 | 34.479 | .50 | | 700 | 4.19 | 34.25 | .35 | | 27.20 | 94.5 | 1.092 |
| | | | | | 800 | 4.08 | 34.34 | .26 | | 27.28 | 88.0 | 1.184 |
| | | | | | 1000 | 3.56 | 34.41 | .30 | | 27.39 | 78.0 | 1.349 |
| | | | | | 1200 | 3.14 | 34.47 | .48 | | 27.48 | 69.5 | 1.497 |
| NH085 44 39.1 N 126 3.0 W DATE 17 JUL 63 1521 GCT WIRE 05 DRY 58.0 WET 55.5 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 10 KTS BAR 20 SWELL DIRECTION 31 H 04 T 07 CLOUD 08 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.63 | 31.049 | 5.74 | | 0 | 16.63 | 31.05 | 5.74 | | 22.60 | 526.1 | 0 |
| 10 | 16.63 | 31.045 | 5.62 | | 10 | 16.63 | 31.05 | 5.63 | | 22.60 | 526.7 | .053 |
| 20 | 15.09 | 31.906 | 5.99 | | 20 | 15.09 | 31.91 | 5.99 | | 23.60 | 431.3 | .101 |
| 30 | 11.81 | | | | 30 | 11.81 | 32.33 | 6.24 | | 24.58 | 337.9 | .139 |
| 50 | 10.63 | 32.647 | 6.25 | | 50 | 10.63 | 32.65 | 6.26 | | 25.04 | 294.6 | .202 |
| 76 | 9.52 | 32.895 | 5.17 | | 75 | 9.55 | 32.89 | 5.22 | | 25.40 | 260.4 | .272 |
| 104 | 8.84 | 33.477 | 3.87 | | 100 | 8.92 | 33.39 | 4.04 | | 25.90 | 213.6 | .331 |
| 153 | 7.85 | 33.843 | 3.35 | | 150 | 7.90 | 33.84 | 3.35 | | 26.40 | 166.5 | .426 |
| 207 | 7.25 | 33.963 | 2.71 | | 200 | 7.32 | 33.96 | 2.79 | | 26.58 | 150.1 | .505 |
| 308 | 5.90 | 33.970 | 2.36 | | 250 | 6.67 | 33.97 | 2.53 | | 26.68 | 141.6 | .578 |
| 410 | 4.91 | 34.015 | 1.48 | | 300 | 6.01 | 33.97 | 2.38 | | 26.76 | 133.5 | .647 |
| 512 | 4.74 | 34.133 | .74 | | 400 | 4.98 | 34.01 | 1.57 | | 26.92 | 119.5 | .773 |
| 615 | 4.48 | 34.223 | .44 | | 500 | 4.74 | 34.12 | .81 | | 27.03 | 108.9 | .887 |
| 821 | 3.95 | 34.346 | .33 | | 600 | 4.52 | 34.21 | .46 | | 27.13 | 100.9 | .992 |
| 1026 | 3.48 | 34.436 | .62 | | 700 | 4.26 | 34.28 | .33 | | 27.21 | 93.4 | 1.089 |
| | | | | | 800 | 4.00 | 34.34 | .34 | | 27.28 | 87.0 | 1.179 |
| | | | | | 1000 | 3.54 | 34.43 | .56 | | 27.40 | 76.6 | 1.343 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH105 44 40.8 N 126 30.8 W DATE 17 JUL 63 1830 GCT WIRE 06 DRY 61.1 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 20 KTS BAR 20 SWELL DIRECTION 32 H 04 T 07 CLOUD 06 AMT 08 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.77 | 31.502 | 5.75 | | 0 | 16.77 | 31.51 | 5.76 | | 22.92 | 496.1 | 0 |
| 10 | 16.65 | 31.535 | 5.75 | | 10 | 16.65 | 31.54 | 5.76 | | 22.97 | 491.3 | .049 |
| 20 | 16.52 | 31.611 | 5.83 | | 20 | 16.52 | 31.62 | 5.83 | | 23.06 | 483.2 | .098 |
| 30 | 13.82 | 32.544 | 6.30 | | 30 | 13.82 | 32.55 | 6.31 | | 24.36 | 359.4 | .140 |
| 50 | 11.10 | 32.671 | 6.67 | | 50 | 11.10 | 32.68 | 6.68 | | 24.98 | 300.7 | .206 |
| 76 | 9.69 | 33.087 | 4.96 | | 75 | 9.72 | 33.07 | 5.04 | | 25.52 | 249.4 | .275 |
| 104 | 8.96 | 33.497 | 3.92 | | 100 | 9.03 | 33.44 | 4.04 | | 25.92 | 211.5 | .333 |
| 153 | 8.12 | 33.876 | 2.72 | | 150 | 8.16 | 33.86 | 2.77 | | 26.38 | 168.3 | .427 |
| 207 | 7.29 | 33.979 | 2.52 | | 200 | 7.39 | 33.98 | 2.55 | | 26.58 | 149.7 | .507 |
| 307 | 6.32 | 34.047 | 1.72 | | 250 | 6.82 | 34.02 | 2.19 | | 26.70 | 139.5 | .579 |
| 407 | 5.47 | 34.081 | 1.25 | | 300 | 6.37 | 34.05 | 1.78 | | 26.78 | 132.5 | .647 |
| 509 | 4.94 | 34.141 | .79 | | 400 | 5.52 | 34.08 | 1.28 | | 26.91 | 120.8 | .774 |
| 611 | 4.65 | 34.213 | .47 | | 500 | 4.98 | 34.13 | .83 | | 27.02 | 110.5 | .889 |
| 814 | 4.07 | 34.335 | .37 | | 600 | 4.68 | 34.21 | .50 | | 27.11 | 103.2 | .996 |
| 1017 | 3.51 | 34.421 | .37 | | 700 | 4.39 | 34.27 | .38 | | 27.19 | 95.7 | 1.096 |
| | | | | | 800 | 4.11 | 34.33 | .38 | | 27.27 | 88.9 | 1.188 |
| | | | | | 1000 | 3.56 | 34.42 | .37 | | 27.39 | 77.7 | 1.354 |
| NH117 44 39.9 N 126 48.0 W DATE 17 JUL 63 2135 GCT WIRE 00 DRY 62.2 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 08 KTS BAR 21 SWELL DIRECTION 31 H 03 T 07 CLOUD 06 AMT 07 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.47 | 31.555 | 5.77 | | 0 | 16.48 | 31.56 | 5.78 | | 23.03 | 485.7 | 0 |
| 10 | 16.42 | 31.561 | 5.83 | | 10 | 16.42 | 31.56 | 5.83 | | 23.04 | 485.1 | .049 |
| 20 | 16.17 | 31.660 | 5.87 | | 20 | 16.17 | 31.67 | 5.88 | | 23.17 | 472.0 | .096 |
| 30 | 14.29 | 32.360 | 6.09 | | 30 | 14.29 | 32.36 | 6.09 | | 24.12 | 382.1 | .139 |
| 50 | 10.86 | 32.534 | 6.89 | | 50 | 10.86 | 32.54 | 6.90 | | 24.91 | 306.8 | .208 |
| 76 | 9.88 | 32.682 | 5.85 | | 75 | 9.88 | 32.67 | 5.91 | | 25.18 | 281.3 | .281 |
| 104 | 8.57 | 33.331 | 4.36 | | 100 | 8.75 | 33.23 | 4.55 | | 25.80 | 222.8 | .344 |
| 154 | 7.64 | 33.645 | 4.17 | | 150 | 7.67 | 33.64 | 4.19 | | 26.28 | 177.8 | .445 |
| 209 | 7.23 | 33.909 | 3.31 | | 200 | 7.28 | 33.87 | 3.47 | | 26.52 | 155.8 | .528 |
| 311 | 6.20 | 33.970 | 2.31 | | 250 | 6.84 | 33.97 | 2.85 | | 26.66 | 143.6 | .603 |
| 413 | 5.10 | 33.995 | 1.48 | | 300 | 6.32 | 33.96 | 2.40 | | 26.72 | 137.9 | .673 |
| 515 | 4.77 | 34.089 | .88 | | 400 | 5.22 | 33.99 | 1.57 | | 26.88 | 123.6 | .804 |
| 619 | 4.36 | 34.154 | .49 | | 500 | 4.80 | 34.07 | .95 | | 26.99 | 112.9 | .922 |
| 825 | 3.98 | 34.315 | .30 | | 600 | 4.43 | 34.14 | .55 | | 27.09 | 105.0 | 1.031 |
| 1030 | 3.46 | 34.409 | .42 | | 700 | 4.18 | 34.22 | .35 | | 27.17 | 97.1 | 1.132 |
| | | | | | 800 | 4.01 | 34.30 | .32 | | 27.25 | 90.1 | 1.226 |
| | | | | | 1000 | 3.54 | 34.40 | .38 | | 27.38 | 78.7 | 1.394 |
| NH145 44 39.1 N 127 27.0 W DATE 18 JUL 63 0333 GCT WIRE 04 DRY 59.5 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 12 KTS BAR 22 SWELL DIRECTION 31 H 04 T 07 CLOUD 08 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.65 | 31.581 | 5.62 | | 0 | 16.65 | 31.59 | 5.63 | | 23.01 | 487.7 | 0 |
| 10 | 16.63 | 31.574 | 5.77 | | 10 | 16.63 | 31.58 | 5.78 | | 23.00 | 488.0 | .049 |
| 20 | 15.41 | 32.018 | 6.04 | | 20 | 15.41 | 32.02 | 6.05 | | 23.62 | 429.8 | .095 |
| 30 | 13.61 | 32.554 | 6.23 | | 30 | 13.61 | 32.56 | 6.23 | | 24.41 | 354.6 | .134 |
| 50 | 10.50 | 32.547 | 6.84 | | 50 | 10.50 | 32.55 | 6.84 | | 24.98 | 299.9 | .199 |
| 77 | 9.50 | 32.820 | 5.48 | | 75 | 9.51 | 32.79 | 5.62 | | 25.33 | 267.0 | .270 |
| 104 | 8.32 | 33.432 | 4.07 | | 100 | 8.48 | 33.34 | 4.26 | | 25.93 | 211.0 | .330 |
| 153 | 7.72 | 33.821 | 3.19 | | 150 | 7.73 | 33.81 | 3.21 | | 26.41 | 165.7 | .424 |
| 207 | 7.24 | 33.952 | 2.48 | | 200 | 7.30 | 33.95 | 2.56 | | 26.57 | 150.7 | .503 |
| 308 | 6.00 | 33.974 | 2.03 | | 250 | 6.70 | 33.96 | 2.25 | | 26.67 | 142.3 | .576 |
| 410 | 5.36 | 34.062 | 1.08 | | 300 | 6.10 | 33.97 | 2.05 | | 26.76 | 134.4 | .646 |
| 511 | 4.85 | 34.125 | .70 | | 400 | 5.41 | 34.05 | 1.17 | | 26.90 | 121.3 | .773 |
| 615 | 4.44 | 34.197 | .46 | | 500 | 4.90 | 34.12 | .72 | | 27.02 | 110.8 | .889 |
| 820 | 3.96 | 34.325 | .34 | | 600 | 4.49 | 34.19 | .49 | | 27.11 | 102.5 | .996 |
| 1025 | 3.40 | 34.406 | .40 | | 700 | 4.22 | 34.25 | .37 | | 27.20 | 94.9 | 1.094 |
| | | | | | 800 | 4.00 | 34.31 | .35 | | 27.27 | 88.6 | 1.186 |
| | | | | | 1000 | 3.47 | 34.40 | .38 | | 27.39 | 77.9 | 1.353 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

NH165 44 40.0 N 127 54.4 W DATE 18 JUL 63 0940 GCT WIRE 05 DRY 59.5 WET 56.6
WIND DIRECTION 35 VEL 15 KTS BAR 21 SWELL DIRECTION 33 H 03 T 07 CLOUD - AMT 10 WEATHER 00

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.48 | 31.471 | 5.77 | 0 | 16.48 | 31.48 | 5.78 | 22.96 | 492.0 | 0 |
| 10 | 16.47 | 31.468 | 5.81 | 10 | 16.48 | 31.47 | 5.82 | 22.96 | 492.3 | .049 |
| 20 | 16.48 | 31.469 | 5.86 | 20 | 16.48 | 31.47 | 5.86 | 22.96 | 492.7 | .098 |
| 30 | 14.35 | 32.252 | 6.24 | 30 | 14.35 | 32.26 | 6.24 | 24.02 | 391.2 | .143 |
| 50 | 11.43 | 32.544 | 6.90 | 50 | 11.43 | 32.55 | 6.91 | 24.82 | 315.8 | .213 |
| 104 | 8.46 | 33.241 | 4.64 | 75 | 9.47 | 32.88 | 6.17 | 25.41 | 259.8 | .285 |
| 153 | 7.71 | 33.849 | 3.26 | 100 | 8.52 | 33.19 | 4.90 | 25.80 | 222.5 | .346 |
| 208 | 6.93 | 33.946 | 2.97 | 150 | 7.73 | 33.82 | 3.32 | 26.41 | 165.4 | .442 |
| 309 | 5.94 | 34.001 | 1.85 | 200 | 7.04 | 33.93 | 2.98 | 26.60 | 148.2 | .521 |
| 412 | 5.36 | 34.073 | 1.05 | 250 | 6.46 | 33.98 | 2.53 | 26.71 | 137.9 | .592 |
| 513 | 4.90 | 34.164 | .59 | 300 | 6.01 | 34.00 | 1.96 | 26.79 | 131.3 | .660 |
| 615 | 4.54 | 34.232 | .37 | 400 | 5.41 | 34.06 | 1.13 | 26.91 | 120.6 | .785 |
| 817 | 3.86 | 34.333 | .29 | 500 | 4.95 | 34.15 | .63 | 27.04 | 108.9 | .900 |
| 1022 | 3.39 | 34.425 | .34 | 600 | 4.59 | 34.22 | .39 | 27.13 | 100.9 | 1.005 |
| 1228 | 3.03 | 34.469 | .50 | 700 | 4.24 | 34.28 | .30 | 27.21 | 93.3 | 1.102 |
| | | | | 800 | 3.91 | 34.33 | .30 | 27.29 | 86.7 | 1.192 |
| | | | | 1000 | 3.43 | 34.42 | .33 | 27.41 | 76.1 | 1.355 |
| | | | | 1200 | 3.07 | 34.47 | .47 | 27.48 | 69.4 | 1.500 |

UH085 44 0.0 N 126 3.2 W DATE 19 JUL 63 0116 GCT WIRE 05 DRY 62.8 WET 58.0
WIND DIRECTION 00 VEL 15 KTS BAR 20 SWELL DIRECTION 01 H 03 T 07 CLOUD 08 AMT 04 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.00 | 31.410 | 5.71 | 0 | 17.00 | 31.42 | 5.71 | 22.79 | 507.9 | 0 |
| 10 | 16.93 | 31.393 | 5.58 | 10 | 16.94 | 31.40 | 5.58 | 22.80 | 507.8 | .051 |
| 20 | 14.43 | 32.464 | 6.20 | 20 | 14.43 | 32.47 | 6.20 | 24.17 | 377.1 | .095 |
| 30 | 12.88 | 32.635 | 6.23 | 30 | 12.88 | 32.64 | 6.23 | 24.62 | 334.8 | .131 |
| 50 | 10.95 | 32.708 | 6.04 | 50 | 10.95 | 32.71 | 6.05 | 25.03 | 295.5 | .194 |
| 77 | 9.80 | 33.101 | 4.83 | 75 | 9.85 | 33.06 | 4.94 | 25.49 | 251.9 | .262 |
| 104 | 8.76 | 33.560 | 3.80 | 100 | 8.89 | 33.50 | 3.94 | 25.98 | 205.5 | .319 |
| 154 | 8.18 | 33.872 | 2.83 | 150 | 8.19 | 33.86 | 2.87 | 26.38 | 168.7 | .413 |
| 209 | 7.52 | 33.986 | 2.43 | 200 | 7.63 | 33.98 | 2.47 | 26.55 | 153.0 | .493 |
| 309 | 6.54 | 34.059 | 1.72 | 250 | 7.08 | 34.03 | 2.13 | 26.67 | 142.5 | .567 |
| 409 | 5.90 | 34.115 | 1.14 | 300 | 6.62 | 34.06 | 1.78 | 26.75 | 134.9 | .636 |
| 511 | 5.25 | 34.163 | .78 | 400 | 5.95 | 34.11 | 1.18 | 26.88 | 123.8 | .766 |
| 614 | 4.91 | 34.235 | .51 | 500 | 5.31 | 34.16 | .81 | 27.00 | 112.9 | .884 |
| 820 | 4.03 | 34.340 | .32 | 600 | 4.95 | 34.22 | .54 | 27.09 | 105.0 | .993 |
| 1025 | 3.54 | 34.425 | .33 | 700 | 4.54 | 34.28 | .39 | 27.19 | 96.4 | 1.093 |
| | | | | 800 | 4.11 | 34.33 | .32 | 27.27 | 88.6 | 1.186 |
| | | | | 1000 | 3.58 | 34.42 | .33 | 27.39 | 77.9 | 1.352 |

UH065 44 0.0 N 125 36.4 W DATE 19 JUL 63 0552 GCT WIRE 03 DRY 61.5 WET 56.1
WIND DIRECTION 35 VEL 22 KTS BAR 19 SWELL DIRECTION 35 H 05 T 06 CLOUD 09 AMT 10 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.51 | 31.406 | 5.90 | 0 | 16.51 | 31.41 | 5.91 | 22.90 | 497.4 | 0 |
| 10 | 16.51 | 31.401 | 5.71 | 10 | 16.51 | 31.41 | 5.71 | 22.90 | 498.0 | .050 |
| 20 | 13.75 | 31.746 | 6.53 | 20 | 13.75 | 31.75 | 6.54 | 23.76 | 416.4 | .095 |
| 30 | 11.02 | 32.407 | 6.63 | 30 | 11.02 | 32.41 | 6.64 | 24.78 | 318.5 | .132 |
| 50 | 9.64 | 32.508 | 5.53 | 50 | 9.64 | 32.51 | 5.54 | 25.10 | 289.0 | .193 |
| 76 | 8.95 | 32.948 | 4.69 | 75 | 8.96 | 32.93 | 4.72 | 25.53 | 248.3 | .260 |
| 104 | 8.28 | 33.482 | 3.31 | 100 | 8.36 | 33.41 | 3.50 | 26.00 | 204.0 | .317 |
| 153 | 7.94 | 33.886 | 2.65 | 150 | 7.95 | 33.88 | 2.65 | 26.42 | 164.3 | .409 |
| 207 | 7.35 | 33.989 | 2.20 | 200 | 7.43 | 33.99 | 2.25 | 26.56 | 149.5 | .487 |
| 307 | 6.36 | 34.074 | 1.49 | 250 | 6.89 | 34.04 | 1.86 | 26.70 | 139.2 | .559 |
| 407 | 5.75 | 34.110 | 1.15 | 300 | 6.42 | 34.07 | 1.53 | 26.79 | 131.2 | .627 |
| 508 | 5.23 | 34.195 | .62 | 400 | 5.78 | 34.11 | 1.17 | 26.90 | 121.9 | .753 |
| 610 | 4.82 | 34.254 | .45 | 500 | 5.27 | 34.19 | .66 | 27.03 | 110.1 | .869 |
| 813 | 4.20 | 34.370 | .29 | 600 | 4.86 | 34.25 | .46 | 27.12 | 102.1 | .975 |
| 1015 | 3.57 | 34.436 | .43 | 700 | 4.53 | 34.31 | .35 | 27.21 | 94.5 | 1.074 |
| | | | | 800 | 4.24 | 34.36 | .29 | 27.28 | 87.7 | 1.165 |
| | | | | 1000 | 3.62 | 34.43 | .41 | 27.40 | 77.1 | 1.329 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| UH045 44 1.0 N 125 9.4 W DATE 19 JUL 63 0936 GCT WIRE 08 DRY 61.1 WET 57.3 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 18 KTS BAR 18 SWELL DIRECTION 32 H 04 T 07 CLOUD - AMT - WEATHER 00 | | | | | | | | | | | | |
| 0 | 15.85 | 31.442 | 6.04 | | 0 | 15.85 | 31.45 | 6.05 | | 23.08 | 480.7 | 0 |
| 10 | 15.81 | 31.428 | 6.05 | | 10 | 15.81 | 31.43 | 6.06 | | 23.08 | 481.1 | .048 |
| 20 | 12.75 | 31.771 | 6.48 | | 20 | 12.75 | 31.78 | 6.48 | | 23.97 | 395.7 | .092 |
| 30 | 10.52 | 32.296 | 6.79 | | 30 | 10.52 | 32.30 | 6.80 | | 24.79 | 318.4 | .128 |
| 50 | 9.65 | 32.713 | 5.48 | | 50 | 9.65 | 32.72 | 5.48 | | 25.26 | 274.0 | .187 |
| 76 | 9.02 | 33.269 | 4.30 | | 75 | 9.04 | 33.25 | 4.34 | | 25.77 | 225.6 | .249 |
| 104 | 8.52 | 33.656 | 3.37 | | 100 | 8.59 | 33.61 | 3.48 | | 26.12 | 192.2 | .301 |
| 153 | 7.70 | 33.929 | 2.55 | | 150 | 7.74 | 33.92 | 2.58 | | 26.49 | 157.9 | .389 |
| 208 | 7.13 | 33.987 | 2.13 | | 200 | 7.20 | 33.98 | 2.17 | | 26.61 | 147.0 | .465 |
| 308 | 6.24 | 34.048 | 1.62 | | 250 | 6.72 | 34.01 | 1.91 | | 26.71 | 138.6 | .537 |
| 409 | 5.83 | 34.139 | .87 | | 300 | 6.30 | 34.04 | 1.66 | | 26.79 | 131.7 | .604 |
| 511 | 5.37 | 34.169 | .65 | | 400 | 5.86 | 34.13 | .93 | | 26.91 | 121.0 | .730 |
| 613 | 4.78 | 34.219 | .42 | | 500 | 5.42 | 34.17 | .66 | | 26.99 | 113.6 | .848 |
| 818 | 4.30 | 34.328 | .37 | | 600 | 4.85 | 34.21 | .45 | | 27.09 | 104.8 | .957 |
| 1023 | 3.81 | 34.416 | .42 | | 700 | 4.52 | 34.27 | .40 | | 27.17 | 97.5 | 1.058 |
| | | | | | 800 | 4.32 | 34.32 | .37 | | 27.24 | 92.0 | 1.153 |
| | | | | | 1000 | 3.87 | 34.41 | .41 | | 27.36 | 81.9 | 1.326 |
| UH025 43 59.8 N 124 45.0 W DATE 19 JUL 63 1255 GCT WIRE 02 DRY 58.9 WET 55.9 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 08 KTS BAR 18 SWELL DIRECTION 35 H 03 T 07 CLOUD 01 AMT 03 WEATHER 01 | | | | | | | | | | | | |
| 0 | 13.80 | 32.001 | 7.07 | | 0 | 13.80 | 32.01 | 7.07 | | 23.94 | 398.2 | 0 |
| 10 | 13.10 | 32.093 | | | 10 | 13.10 | 32.10 | 6.20 | | 24.15 | 378.3 | .039 |
| 20 | 9.46 | 32.358 | 5.80 | | 20 | 9.46 | 32.36 | 5.81 | | 25.01 | 296.9 | .073 |
| 30 | 9.09 | 32.504 | 5.40 | | 30 | 9.09 | 32.51 | 5.41 | | 25.18 | 280.6 | .101 |
| 50 | 8.28 | 32.996 | 4.13 | | 50 | 8.28 | 33.00 | 4.14 | | 25.69 | 232.5 | .153 |
| 75 | 7.84 | 33.649 | 2.81 | | 75 | 7.84 | 33.65 | 2.82 | | 26.27 | 178.1 | .204 |
| 100 | 7.40 | 33.920 | 2.06 | | 100 | 7.41 | 33.92 | 2.07 | | 26.54 | 152.3 | .245 |
| CH005 43 20.5 N 124 28.8 W DATE 20 JUL 63 0323 GCT WIRE 00 DRY 57.0 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 05 KTS BAR 19 SWELL DIRECTION 31 H 02 T 06 CLOUD 00 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 11.96 | 32.890 | 6.79 | | 0 | 11.96 | 32.89 | 6.80 | | 24.99 | 298.6 | 0 |
| 10 | 9.91 | 33.208 | 5.94 | | 10 | 9.91 | 33.21 | 5.94 | | 25.60 | 240.8 | .027 |
| 20 | 8.59 | 33.369 | 2.26 | | 20 | 8.59 | 33.37 | 2.27 | | 25.94 | 208.9 | .049 |
| 30 | 8.06 | 33.623 | 3.74 | | 30 | 8.06 | 33.63 | 3.74 | | 26.21 | 182.5 | .069 |
| 50 | 7.89 | 33.830 | 1.25 | | 50 | 7.90 | 33.83 | 1.26 | | 26.40 | 165.0 | .104 |
| 75 | 7.46 | 33.947 | 2.19 | | 75 | 7.46 | 33.95 | 2.20 | | 26.56 | 150.7 | .143 |
| CH015 43 20.5 N 124 43.1 W DATE 20 JUL 63 0543 GCT WIRE 00 DRY 60.5 WET 57.8 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 10 KTS BAR 19 SWELL DIRECTION 31 H 03 T 06 CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.51 | 31.577 | 6.29 | | 0 | 15.51 | 31.58 | 6.30 | | 23.26 | 463.7 | 0 |
| 10 | 13.57 | 31.824 | 6.57 | | 10 | 13.57 | 31.83 | 6.57 | | 23.85 | 407.0 | .044 |
| 20 | 9.69 | 32.304 | 5.65 | | 20 | 9.69 | 32.31 | 5.66 | | 24.93 | 304.4 | .079 |
| 30 | 8.97 | 32.478 | 5.19 | | 30 | 8.97 | 32.48 | 5.19 | | 25.18 | 280.8 | .108 |
| 50 | 8.60 | 33.087 | 4.23 | | 50 | 8.60 | 33.09 | 4.23 | | 25.71 | 230.4 | .159 |
| 76 | 8.45 | 33.595 | 3.63 | | 75 | 8.45 | 33.58 | 3.65 | | 26.12 | 192.3 | .212 |
| 103 | 8.04 | 33.813 | 3.06 | | 100 | 8.09 | 33.80 | 3.12 | | 26.34 | 171.2 | .258 |
| 157 | 7.70 | 33.947 | 2.69 | | 150 | 7.73 | 33.94 | 2.71 | | 26.51 | 156.2 | .340 |
| 207 | 7.19 | 34.005 | 2.25 | | 200 | 7.27 | 34.00 | 2.32 | | 26.62 | 146.3 | .415 |
| CH025 43 20.2 N 124 55.2 W DATE 20 JUL 63 0820 GCT WIRE 00 DRY 60.1 WET 56.9 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 05 KTS BAR 19 SWELL DIRECTION 31 H 03 T 07 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.93 | 31.394 | 5.96 | | 0 | 15.93 | 31.40 | 5.96 | | 23.02 | 485.9 | 0 |
| 10 | 15.88 | 31.402 | 6.02 | | 10 | 15.88 | 31.41 | 6.03 | | 23.04 | 484.5 | .049 |
| 20 | 13.60 | 31.909 | 6.46 | | 20 | 13.60 | 31.91 | 6.46 | | 23.91 | 401.5 | .093 |
| 30 | 10.27 | 32.331 | 6.29 | | 30 | 10.27 | 32.34 | 6.30 | | 24.86 | 311.8 | .128 |
| 50 | 9.75 | 32.630 | 5.78 | | 50 | 9.75 | 32.63 | 5.79 | | 25.17 | 281.7 | .188 |
| 76 | 8.88 | | 4.61 | | 75 | 8.91 | 33.13 | 4.66 | | 25.70 | 232.4 | .252 |
| 104 | 8.52 | 33.651 | 3.39 | | 100 | 8.55 | 33.58 | 3.54 | | 26.11 | 194.0 | .305 |
| 153 | 7.78 | 33.906 | 2.91 | | 150 | 7.83 | 33.90 | 2.94 | | 26.46 | 160.6 | .394 |
| 208 | 7.13 | 33.988 | 2.41 | | 200 | 7.21 | 33.98 | 2.48 | | 26.62 | 146.8 | .471 |
| 311 | 6.44 | 34.059 | 1.72 | | 250 | 6.77 | 34.03 | 2.09 | | 26.71 | 138.1 | .542 |
| | | | | | 300 | 6.48 | 34.06 | 1.78 | | 26.77 | 133.1 | .610 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

CH035 43 20.4 N 125 10.6 W DATE 20 JUL 63 1051 GCT WIRE - DRY 60.1 WET 56.8
WIND DIRECTION 03 VEL 15 KTS BAR 19 SWELL DIRECTION 01 H 03 T 07 CLOUD - AMT - WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.01 | 31.542 | 5.88 | | 0 | 16.01 | 31.55 | 5.89 | 23.12 | 476.7 | 0 |
| 10 | 15.91 | 31.597 | 5.64 | | 10 | 15.91 | 31.60 | 5.65 | 23.18 | 470.8 | .047 |
| 20 | 14.72 | 32.085 | 5.93 | | 20 | 14.72 | 32.09 | 5.94 | 23.82 | 410.7 | .091 |
| 30 | 11.43 | | | | 30 | 11.43 | 32.39 | 6.26 | 24.69 | 327.3 | .128 |
| 50 | 10.29 | | 6.40 | | 50 | 10.29 | 32.85 | 6.41 | 25.25 | 274.4 | .189 |
| 76 | 9.13 | 33.168 | 4.80 | | 75 | 9.17 | 33.16 | 4.87 | 25.68 | 234.0 | .252 |
| 104 | 8.52 | 33.644 | 3.62 | | 100 | 8.58 | 33.59 | 3.75 | 26.10 | 194.2 | .306 |
| 153 | 7.98 | 33.863 | 2.98 | | 150 | 8.00 | 33.86 | 2.99 | 26.41 | 166.0 | .396 |
| 206 | 7.45 | 33.967 | 2.56 | | 200 | 7.51 | 33.96 | 2.60 | 26.56 | 152.6 | .475 |
| 296 | 6.49 | 34.006 | 1.93 | | 250 | 6.99 | 33.99 | 2.24 | 26.65 | 144.3 | .549 |
| | | | | | 300 | 6.45 | 34.00 | 1.90 | 26.74 | 136.6 | .620 |

CH045 43 20.5 N 125 24.5 W DATE 20 JUL 63 1334 GCT WIRE 00 DRY 60.2 WET 57.0
WIND DIRECTION 34 VEL 06 KTS BAR 18 SWELL DIRECTION 32 H 03 T 07 CLOUD 09 AMT 10 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.01 | 31.560 | 5.63 | | 0 | 16.01 | 31.55 | 5.64 | 23.13 | 476.2 | 0 |
| 10 | 16.02 | 31.555 | 5.74 | | 10 | 16.02 | 31.56 | 5.74 | 23.13 | 476.2 | .048 |
| 20 | 14.66 | 32.245 | 6.12 | | 20 | 14.66 | 32.25 | 6.13 | 23.95 | 397.7 | .091 |
| 30 | 13.08 | 32.553 | 6.14 | | 30 | 13.08 | 32.56 | 6.15 | 24.51 | 344.5 | .128 |
| 50 | 10.45 | 32.577 | 6.82 | | 50 | 10.45 | 32.58 | 6.82 | 25.02 | 296.8 | .193 |
| 77 | 9.51 | 32.859 | 5.46 | | 75 | 9.52 | 32.83 | 5.61 | 25.36 | 264.2 | .263 |
| 105 | 8.84 | 33.482 | 3.80 | | 100 | 8.94 | 33.37 | 4.07 | 25.88 | 215.6 | .323 |
| 154 | 8.11 | 33.809 | 3.03 | | 150 | 8.16 | 33.80 | 3.04 | 26.34 | 172.6 | .420 |
| 209 | 7.40 | 33.948 | 2.56 | | 200 | 7.51 | 33.94 | 2.62 | 26.54 | 154.4 | .501 |
| 311 | 6.42 | 34.008 | 2.00 | | 250 | 6.96 | 33.99 | 2.33 | 26.65 | 143.9 | .576 |
| 412 | 5.74 | 34.079 | 1.17 | | 300 | 6.51 | 34.01 | 2.06 | 26.73 | 137.1 | .646 |
| 514 | 5.13 | 34.128 | .79 | | 400 | 5.81 | 34.07 | 1.26 | 26.87 | 125.0 | .777 |
| 617 | 4.76 | 34.227 | .45 | | 500 | 5.20 | 34.12 | .83 | 26.98 | 114.3 | .897 |
| 822 | 4.20 | 34.344 | .40 | | 600 | 4.81 | 34.21 | .50 | 27.10 | 104.5 | 1.006 |
| 1025 | 3.69 | 34.431 | .42 | | 700 | 4.52 | 34.28 | .43 | 27.19 | 96.3 | 1.106 |
| | | | | | 800 | 4.25 | 34.33 | .41 | 27.26 | 90.0 | 1.199 |
| | | | | | 1000 | 3.75 | 34.42 | .41 | 27.38 | 79.4 | 1.369 |

CH065 43 20.5 N 125 51.5 W DATE 20 JUL 63 1742 GCT WIRE 04 DRY 61.9 WET 58.0
WIND DIRECTION VEL 00 KTS BAR 18 SWELL DIRECTION 31 H 03 T 09 CLOUD 08 AMT 05 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.33 | 31.403 | 5.72 | | 0 | 16.33 | 31.41 | 5.72 | 22.94 | 493.8 | 0 |
| 10 | 16.28 | 31.404 | 5.49 | | 10 | 16.28 | 31.41 | 5.49 | 22.95 | 492.9 | .049 |
| 20 | 15.62 | 31.808 | 6.47 | | 20 | 15.63 | 31.81 | 6.47 | 23.41 | 449.5 | .096 |
| 30 | 13.56 | 32.545 | 5.98 | | 30 | 13.56 | 32.55 | 5.98 | 24.41 | 354.3 | .137 |
| 50 | 11.77 | 32.794 | 6.34 | | 50 | 11.77 | 32.80 | 6.34 | 24.95 | 303.3 | .202 |
| 104 | 8.80 | 33.416 | 4.24 | | 75 | 10.08 | 33.10 | 5.62 | 25.48 | 253.1 | .272 |
| 153 | 8.16 | 33.829 | 2.75 | | 100 | 8.93 | 33.37 | 4.46 | 25.88 | 215.1 | .330 |
| 208 | 7.36 | 33.966 | 2.34 | | 150 | 8.17 | 33.81 | 2.82 | 26.34 | 172.4 | .427 |
| 309 | 6.26 | 34.012 | 1.72 | | 200 | 7.47 | 33.96 | 2.36 | 26.56 | 152.2 | .508 |
| 411 | 5.57 | 34.123 | 1.00 | | 250 | 6.85 | 34.00 | 2.08 | 26.68 | 141.6 | .582 |
| 514 | 5.10 | 34.189 | .63 | | 300 | 6.34 | 34.01 | 1.77 | 26.75 | 134.9 | .651 |
| 618 | 4.73 | 34.253 | .46 | | 400 | 5.63 | 34.11 | 1.07 | 26.92 | 119.7 | .778 |
| 818 | 4.12 | 34.382 | .31 | | 500 | 5.15 | 34.18 | .66 | 27.04 | 109.1 | .893 |
| 1026 | 3.50 | 34.435 | .38 | | 600 | 4.79 | 34.24 | .48 | 27.13 | 101.8 | .998 |
| 1215 | 3.11 | 34.492 | .52 | | 700 | 4.47 | 34.31 | .37 | 27.21 | 93.7 | 1.096 |
| | | | | | 800 | 4.17 | 34.37 | .31 | 27.30 | 86.3 | 1.186 |
| | | | | | 1000 | 3.57 | 34.43 | .36 | 27.40 | 76.7 | 1.349 |
| | | | | | 1200 | 3.13 | 34.49 | .51 | 27.49 | 68.6 | 1.494 |

CH085 43 20.5 N 126 19.0 W DATE 20 JUL 63 1328 GCT WIRE 06 DRY 64.0 WET 60.1
WIND DIRECTION 24 VEL 08 KTS BAR 17 SWELL DIRECTION 29 H 03 T 07 CLOUD 09 AMT 08 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.19 | 31.394 | 5.74 | | 0 | 17.19 | 31.40 | 5.74 | 22.74 | 513.3 | 0 |
| 10 | 16.77 | 31.431 | 5.71 | | 10 | 16.77 | 31.44 | 5.71 | 22.86 | 501.5 | .051 |
| 20 | 15.37 | 32.260 | 5.94 | | 20 | 15.38 | 32.26 | 5.94 | 23.81 | 411.2 | .096 |
| 30 | 14.45 | 32.508 | 6.06 | | 30 | 14.45 | 32.51 | 6.07 | 24.20 | 374.5 | .136 |
| 49 | 12.27 | 32.699 | 6.47 | | 50 | 12.17 | 32.71 | 6.45 | 24.80 | 317.1 | .205 |
| 75 | 10.15 | 32.912 | 5.56 | | 75 | 10.15 | 32.92 | 5.57 | 25.33 | 267.6 | .278 |
| 103 | 9.03 | 33.191 | 4.31 | | 100 | 9.11 | 33.15 | 4.44 | 25.68 | 234.4 | .341 |
| 152 | 8.08 | 33.758 | 3.26 | | 150 | 8.10 | 33.74 | 3.28 | 26.29 | 176.8 | .443 |
| 207 | 7.47 | 33.950 | 2.96 | | 200 | 7.53 | 33.94 | 2.98 | 26.54 | 154.3 | .526 |
| 308 | 6.28 | 34.053 | 2.00 | | 250 | 6.93 | 34.02 | 2.58 | 26.68 | 141.3 | .600 |
| 409 | 5.80 | 34.127 | 1.18 | | 300 | 6.36 | 34.05 | 2.08 | 26.78 | 131.9 | .668 |
| 511 | 5.19 | 34.190 | .64 | | 400 | 5.83 | 34.12 | 1.24 | 26.91 | 121.5 | .795 |
| 614 | 4.79 | 34.244 | .44 | | 500 | 5.25 | 34.18 | .68 | 27.03 | 110.2 | .911 |
| 819 | 4.17 | 34.372 | .28 | | 600 | 4.84 | 34.25 | .45 | 27.13 | 101.5 | 1.017 |
| 1023 | 3.63 | 34.465 | .45 | | 700 | 4.51 | 34.31 | .33 | 27.21 | 93.9 | 1.114 |
| | | | | | 800 | 4.22 | 34.36 | .28 | 27.28 | 87.5 | 1.205 |
| | | | | | 1000 | 3.69 | 34.46 | .41 | 27.41 | 76.2 | 1.369 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH105 43 20.5 N 126 45.5 W DATE 21 JUL 63 0436 GCT WIRE 03 DRY 63.1 WET 59.7 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 15 KTS BAR 15 SWELL DIRECTION 31 H 03 T 09 CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.95 | 31.620 | 5.71 | | 0 | 16.96 | 31.63 | 5.71 | | 22.97 | 491.4 | 0 |
| 10 | 16.84 | 31.660 | 5.60 | | 10 | 16.84 | 31.67 | 5.60 | | 23.02 | 486.3 | .049 |
| 20 | 16.14 | 32.270 | 5.75 | | 20 | 16.14 | 32.27 | 5.76 | | 23.65 | 426.8 | .095 |
| 30 | 15.11 | 32.570 | 5.62 | | 30 | 15.11 | 32.57 | 5.63 | | 24.11 | 383.4 | .135 |
| 50 | 13.26 | 32.610 | 6.39 | | 50 | 13.26 | 32.61 | 6.40 | | 24.52 | 344.2 | .208 |
| 77 | 10.40 | 32.720 | 5.78 | | 75 | 10.59 | 32.71 | 5.86 | | 25.09 | 290.3 | .287 |
| 104 | 9.51 | 33.110 | 4.85 | | 100 | 9.57 | 33.04 | 5.00 | | 25.52 | 249.4 | .355 |
| 153 | 8.36 | 33.700 | 3.34 | | 150 | 8.42 | 33.67 | 3.41 | | 26.19 | 186.3 | .463 |
| 208 | 7.22 | 33.960 | 2.93 | | 200 | 7.37 | 33.94 | 2.95 | | 26.56 | 152.1 | .548 |
| 307 | 5.94 | 34.020 | 1.82 | | 250 | 6.57 | 34.02 | 2.46 | | 26.73 | 136.5 | .620 |
| 403 | 5.41 | 34.100 | 1.15 | | 300 | 6.00 | 34.02 | 1.90 | | 26.80 | 130.0 | .687 |
| | | | | | 400 | 5.42 | 34.10 | 1.16 | | 26.94 | 118.1 | .811 |
| CH125 43 20.6 N 127 14.0 W DATE 21 JUL 63 0856 GCT WIRE 04 DRY 62.0 WET 59.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 20 KTS BAR SWELL DIRECTION 26 H 06 T 07 CLOUD - AMT - WEATHER 50 | | | | | | | | | | | | |
| 0 | 16.91 | | 5.71 | | 0 | 16.92 | 31.63 | 5.71 | | 22.98 | 490.6 | 0 |
| 10 | 16.88 | | 5.74 | | 10 | 16.88 | 31.67 | 5.74 | | 23.01 | 487.2 | .049 |
| 20 | 16.03 | | 5.90 | | 20 | 16.03 | 32.27 | 5.91 | | 23.67 | 424.4 | .094 |
| 30 | 13.85 | | 6.29 | | 30 | 13.85 | 32.57 | 6.30 | | 24.37 | 358.0 | .134 |
| 50 | 12.08 | | 6.43 | | 50 | 12.08 | 32.61 | 6.44 | | 24.75 | 322.4 | .202 |
| 76 | 11.21 | | 5.67 | | 75 | 11.24 | 32.71 | 5.71 | | 24.98 | 301.3 | .280 |
| 103 | 9.32 | | 4.97 | | 100 | 9.53 | 33.04 | 5.05 | | 25.53 | 248.7 | .348 |
| 153 | 8.00 | | 3.23 | | 150 | 8.03 | 33.67 | 3.32 | | 26.25 | 180.6 | .456 |
| 209 | 7.40 | | 2.78 | | 200 | 7.46 | 33.94 | 2.80 | | 26.55 | 153.4 | .539 |
| 310 | 6.44 | | 1.79 | | 250 | 7.00 | 34.02 | 2.37 | | 26.67 | 142.3 | .613 |
| 412 | 5.42 | | 1.24 | | 300 | 6.53 | 34.02 | 1.88 | | 26.73 | 136.8 | .683 |
| 515 | 4.96 | | .79 | | 400 | 5.53 | 34.10 | 1.29 | | 26.92 | 119.4 | .811 |
| 619 | 4.66 | | .49 | | 500 | 5.00 | 34.18 | .85 | | 27.05 | 107.2 | .924 |
| 825 | 4.02 | | .35 | | 600 | 4.71 | 34.25 | .53 | | 27.14 | 100.0 | 1.028 |
| 1030 | 3.58 | | .40 | | 700 | 4.40 | 34.31 | .39 | | 27.22 | 92.6 | 1.124 |
| | | | | | 800 | 4.09 | 34.36 | .37 | | 27.30 | 86.0 | 1.213 |
| | | | | | 1000 | 3.63 | 34.46 | .38 | | 27.42 | 75.6 | 1.375 |
| CH145 43 20.5 N 127 40.8 W DATE 21 JUL 63 1306 GCT WIRE - DRY 60.9 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 15 KTS BAR 12 SWELL DIRECTION 25 H 04 T 07 CLOUD 00 AMT 09 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.72 | 31.959 | 5.64 | | 0 | 16.73 | 31.96 | 5.65 | | 23.28 | 461.6 | 0 |
| 10 | 16.43 | 32.005 | 5.73 | | 10 | 16.44 | 32.01 | 5.73 | | 23.38 | 452.2 | .046 |
| 20 | 16.25 | 32.568 | 5.73 | | 20 | 16.25 | 32.57 | 5.73 | | 23.85 | 407.4 | .089 |
| 30 | 15.83 | 32.650 | 5.88 | | 30 | 15.83 | 32.65 | 5.89 | | 24.01 | 392.6 | .129 |
| 50 | 13.08 | 32.716 | 6.58 | | 50 | 13.08 | 32.72 | 6.58 | | 24.64 | 333.0 | .201 |
| 76 | 10.15 | 32.914 | 5.55 | | 75 | 10.24 | 32.90 | 5.61 | | 25.30 | 270.1 | .277 |
| 104 | 8.72 | 33.362 | 4.34 | | 100 | 8.85 | 33.29 | 4.51 | | 25.83 | 219.8 | .338 |
| 154 | 8.06 | 33.889 | 3.01 | | 150 | 8.07 | 33.86 | 3.08 | | 26.40 | 167.1 | .434 |
| 210 | 7.28 | 33.956 | 2.60 | | 200 | 7.41 | 33.94 | 2.63 | | 26.56 | 152.5 | .514 |
| 312 | 6.33 | 34.022 | 1.84 | | 250 | 6.87 | 33.99 | 2.30 | | 26.67 | 142.6 | .588 |
| 413 | 5.48 | 34.076 | 1.18 | | 300 | 6.42 | 34.02 | 1.93 | | 26.75 | 135.3 | .658 |
| 515 | 4.95 | 34.163 | .68 | | 400 | 5.58 | 34.07 | 1.26 | | 26.90 | 122.2 | .786 |
| 619 | 4.60 | 34.255 | .42 | | 500 | 5.01 | 34.15 | .74 | | 27.03 | 109.8 | .902 |
| 824 | 4.11 | 34.363 | .38 | | 600 | 4.65 | 34.24 | .45 | | 27.14 | 100.5 | 1.007 |
| 1029 | 3.50 | 34.463 | .42 | | 700 | 4.40 | 34.30 | .40 | | 27.22 | 93.2 | 1.104 |
| | | | | | 800 | 4.16 | 34.35 | .38 | | 27.28 | 87.6 | 1.194 |
| | | | | | 1000 | 3.59 | 34.44 | .41 | | 27.41 | 76.2 | 1.358 |
| CH165 43 20.5 N 128 8.0 W DATE 21 JUL 63 1721 GCT WIRE 13 DRY 61.2 WET 59.4 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 30 KTS BAR 09 SWELL DIRECTION 22 H 06 T 07 CLOUD 00 AMT 10 WEATHER 20 | | | | | | | | | | | | |
| 0 | 16.51 | 32.245 | | | 0 | 16.51 | 32.25 | | | 23.55 | 436.1 | 0 |
| 10 | 16.51 | 32.248 | | | 10 | 16.51 | 32.25 | | | 23.55 | 436.2 | .044 |
| 20 | 16.34 | 32.420 | | | 20 | 16.34 | 32.42 | | | 23.72 | 420.2 | .086 |
| 30 | 15.76 | 32.576 | | | 30 | 15.76 | 32.58 | | | 23.97 | 396.6 | .127 |
| 49 | 13.63 | 32.683 | | | 50 | 13.51 | 32.69 | | | 24.53 | 343.1 | .201 |
| 102 | 8.73 | 33.371 | | | 75 | 10.88 | 33.00 | | | 25.26 | 273.8 | .278 |
| 149 | 7.72 | 33.826 | | | 100 | 8.86 | 33.34 | | | 25.87 | 216.5 | .340 |
| 201 | 7.06 | 33.980 | | | 150 | 7.70 | 33.83 | | | 26.43 | 164.1 | .435 |
| 300 | 5.87 | 34.018 | | | 200 | 7.07 | 33.98 | | | 26.63 | 145.2 | .512 |
| 400 | 5.26 | 34.090 | | | 250 | 6.43 | 34.02 | | | 26.75 | 134.6 | .582 |
| 502 | 4.85 | | | | 300 | 5.88 | 34.02 | | | 26.82 | 127.8 | .647 |
| 605 | 4.54 | 34.249 | | | 400 | 5.27 | 34.09 | | | 26.95 | 116.4 | .770 |
| 808 | 4.01 | 34.362 | | | 500 | 4.86 | 34.17 | | | 27.06 | 106.5 | .881 |
| 1010 | 3.42 | 34.449 | | | 600 | 4.55 | 34.25 | | | 27.15 | 98.8 | .984 |
| 1207 | 2.97 | 34.509 | | | 700 | 4.29 | 34.31 | | | 27.23 | 91.8 | 1.079 |
| | | | | | 800 | 4.03 | 34.36 | | | 27.30 | 85.7 | 1.168 |
| | | | | | 1000 | 3.45 | 34.45 | | | 27.43 | 74.2 | 1.327 |
| | | | | | 1200 | 2.98 | 34.51 | | | 27.52 | 65.3 | 1.467 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| PH06R 43 0.0 N 126 0 W DATE 22 JUL 63 0754 GCT WIRE 20 DRY 61.9 WET 56.9 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 16 KTS BAR 12 SWELL DIRECTION 26 H 04 T 07 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.72 | 31.267 | 5.70 | | 0 | 16.73 | 31.27 | 5.70 | | 22.75 | 512.2 | 0 |
| 9 | 16.75 | 31.366 | 5.74 | | 10 | 16.74 | 31.39 | 5.75 | | 22.84 | 503.8 | .051 |
| 19 | 16.28 | 31.793 | 5.88 | | 20 | 16.14 | 31.87 | 5.89 | | 23.34 | 456.4 | .099 |
| 28 | 14.87 | 32.451 | 5.98 | | 30 | 14.59 | 32.51 | 6.05 | | 24.17 | 377.3 | .140 |
| 47 | 12.55 | 32.631 | 6.57 | | 50 | 12.22 | 32.63 | 6.55 | | 24.74 | 323.3 | .211 |
| 72 | 10.26 | 32.664 | 5.93 | | 75 | 10.09 | 32.72 | 5.77 | | 25.18 | 281.4 | .286 |
| 98 | 9.19 | 33.197 | 4.50 | | 100 | 9.13 | 33.23 | 4.43 | | 25.74 | 229.0 | .350 |
| 145 | 8.30 | 33.712 | 3.36 | | 150 | 8.24 | 33.74 | 3.29 | | 26.28 | 178.3 | .452 |
| 196 | 7.75 | 33.915 | 2.83 | | 200 | 7.70 | 33.92 | 2.80 | | 26.50 | 158.1 | .536 |
| 290 | 6.53 | 33.988 | 2.26 | | 250 | 7.05 | 33.98 | 2.49 | | 26.64 | 145.4 | .612 |
| 382 | 5.59 | 34.034 | 1.33 | | 300 | 6.41 | 33.99 | 2.15 | | 26.73 | 136.9 | .682 |
| 475 | 5.16 | 34.108 | .93 | | 400 | 5.48 | 34.05 | 1.23 | | 26.89 | 122.6 | .812 |
| 570 | 4.78 | 34.169 | .64 | | 500 | 5.05 | 34.12 | .84 | | 27.00 | 112.2 | .929 |
| 761 | 4.22 | 34.302 | .38 | | 600 | 4.68 | 34.19 | .58 | | 27.10 | 104.3 | 1.037 |
| 962 | 3.76 | 34.402 | .31 | | 700 | 4.38 | 34.26 | .43 | | 27.19 | 96.2 | 1.138 |
| | | | | | 800 | 4.12 | 34.32 | .35 | | 27.26 | 89.2 | 1.230 |
| PH04S 43 0.0 N 125 29.0 W DATE 22 JUL 63 1300 GCT WIRE - DRY 60.5 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 15 KTS BAR 15 SWELL DIRECTION 28 H 04 T 07 CLOUD 08 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.46 | 31.615 | | | 0 | 15.46 | 31.62 | | | 23.30 | 459.8 | 0 |
| 10 | 14.95 | 31.716 | | | 10 | 14.95 | 31.72 | | | 23.48 | 442.2 | .045 |
| 20 | 13.12 | 32.040 | | | 20 | 13.13 | 32.04 | | | 24.11 | 382.8 | .086 |
| 30 | 10.83 | 32.412 | | | 30 | 10.83 | 32.42 | | | 24.82 | 315.0 | .121 |
| 49 | 9.31 | 32.735 | | | 50 | 9.26 | 32.76 | | | 25.35 | 264.7 | .179 |
| 75 | 8.59 | 33.417 | | | 75 | 8.59 | 33.42 | | | 25.97 | 206.1 | .238 |
| 102 | 8.23 | 33.668 | | | 100 | 8.25 | 33.66 | | | 26.21 | 183.9 | .287 |
| 150 | 7.70 | 33.870 | | | 150 | 7.70 | 33.88 | | | 26.46 | 160.9 | .373 |
| 205 | 7.18 | 33.964 | | | 200 | 7.22 | 33.96 | | | 26.59 | 148.7 | .450 |
| 304 | 6.46 | 34.024 | | | 250 | 6.83 | 34.00 | | | 26.68 | 141.2 | .523 |
| 405 | 5.86 | 34.110 | | | 300 | 6.49 | 34.02 | | | 26.75 | 135.7 | .592 |
| 507 | 5.31 | 34.170 | | | 400 | 5.89 | 34.11 | | | 26.89 | 123.3 | .721 |
| 610 | 4.82 | 34.242 | | | 500 | 5.35 | 34.17 | | | 27.00 | 112.6 | .839 |
| 815 | 4.18 | 34.352 | | | 600 | 4.86 | 34.24 | | | 27.11 | 103.3 | .947 |
| 1019 | 3.65 | 34.421 | | | 700 | 4.50 | 34.30 | | | 27.20 | 95.2 | 1.046 |
| | | | | | 800 | 4.22 | 34.35 | | | 27.27 | 88.8 | 1.138 |
| | | | | | 1000 | 3.69 | 34.42 | | | 27.38 | 79.2 | 1.306 |
| PH02S 43 0.0 N 125 1.5 W DATE 22 JUL 63 1738 GCT WIRE 02 DRY 60.7 WET 55.2 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 10 KTS BAR 17 SWELL DIRECTION 28 H 06 T 08 CLOUD - AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.80 | 31.475 | | | 0 | 15.80 | 31.48 | | | 23.12 | 477.2 | 0 |
| 10 | 12.16 | 32.184 | | | 10 | 12.16 | 32.19 | | | 24.40 | 354.4 | .042 |
| 20 | 9.42 | 32.590 | | | 20 | 9.42 | 32.59 | | | 25.20 | 279.1 | .073 |
| 30 | 8.64 | 32.831 | | | 30 | 8.64 | 32.84 | | | 25.51 | 249.7 | .100 |
| 50 | 8.62 | 33.447 | | | 50 | 8.63 | 33.45 | | | 25.99 | 204.0 | .145 |
| 77 | 8.21 | 33.736 | | | 75 | 8.25 | 33.73 | | | 26.26 | 178.4 | .193 |
| 104 | 7.84 | 33.889 | | | 100 | 7.89 | 33.87 | | | 26.43 | 162.9 | .235 |
| 154 | 7.65 | 34.020 | | | 150 | 7.66 | 34.02 | | | 26.58 | 149.8 | .314 |
| 209 | 7.16 | 34.023 | | | 200 | 7.24 | 34.02 | | | 26.64 | 144.3 | .387 |
| 311 | 6.81 | 34.078 | | | 250 | 6.99 | 34.04 | | | 26.69 | 140.0 | .458 |
| 413 | 6.26 | 34.096 | | | 300 | 6.84 | 34.07 | | | 26.74 | 136.7 | .527 |
| 515 | 5.67 | 34.164 | | | 400 | 6.34 | 34.09 | | | 26.82 | 130.1 | .661 |
| 619 | 5.12 | 34.217 | | | 500 | 5.76 | 34.15 | | | 26.94 | 118.8 | .785 |
| 824 | 4.33 | 34.317 | | | 600 | 5.21 | 34.21 | | | 27.05 | 109.6 | .899 |
| 1027 | 3.71 | 34.414 | | | 700 | 4.77 | 34.26 | | | 27.14 | 101.3 | 1.004 |
| | | | | | 800 | 4.41 | 34.31 | | | 27.22 | 94.0 | 1.102 |
| | | | | | 1000 | 3.78 | 34.40 | | | 27.36 | 81.3 | 1.277 |
| PH00S 43 0.0 N 124 33.5 W DATE 22 JUL 63 2154 GCT WIRE 08 DRY 61.5 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 08 KTS BAR 16 SWELL DIRECTION 33 H 06 T 07 CLOUD - AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.51 | 32.127 | 7.00 | | 0 | 14.51 | 32.13 | 7.01 | | 23.89 | 402.9 | 0 |
| 10 | 9.81 | 33.137 | 5.71 | | 10 | 9.81 | 33.14 | 5.71 | | 25.56 | 244.5 | .032 |
| 20 | 8.70 | 33.466 | 3.73 | | 20 | 8.70 | 33.47 | 3.73 | | 25.99 | 203.3 | .055 |
| 30 | 8.24 | 33.636 | 2.60 | | 30 | 8.24 | 33.64 | 2.60 | | 26.20 | 184.1 | .074 |
| 40 | 8.07 | 33.806 | 2.18 | | 50 | 7.89 | 33.84 | 1.96 | | 26.41 | 164.4 | .109 |
| 50 | 7.88 | 33.837 | 1.96 | | 75 | 8.25 | 33.73 | | | 26.26 | 178.4 | .152 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| RH005 42 0.0 N 124 19.5 W DATE 23 JUL 63 0509 GCT WIRE DRY 54.6 WET 52.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 20 KTS BAR 13 SWELL DIRECTION 30 H 04 T 07 CLOUD - AMT - WEATHER 00 | | | | | | | | | | | | |
| 0 | 11.08 | 33.615 | 6.57 | .77 | 0 | 11.08 | 33.62 | 6.57 | .78 | 25.71 | 229.8 | 0 |
| 10 | 11.00 | 33.621 | 6.07 | .69 | 10 | 11.00 | 33.63 | 6.07 | .70 | 25.73 | 228.2 | .023 |
| 20 | 9.23 | 33.785 | 4.49 | 1.70 | 20 | 9.23 | 33.79 | 4.49 | 1.71 | 26.16 | 187.6 | .044 |
| 30 | 8.26 | 33.880 | 2.68 | 2.30 | 30 | 8.26 | 33.88 | 2.68 | 2.30 | 26.39 | 166.3 | .061 |
| RH015 42 0.0 N 124 33.0 W DATE 23 JUL 63 1803 GCT WIRE 00 DRY 58.0 WET 54.3 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 03 KTS BAR 12 SWELL DIRECTION 33 H 04 T 08 CLOUD 03 AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.39 | 32.761 | 6.92 | .40 | 0 | 13.39 | 32.77 | 6.93 | .40 | 24.61 | 334.5 | 0 |
| 10 | 10.28 | 32.739 | 5.92 | .74 | 10 | 10.28 | 32.74 | 5.93 | .75 | 25.17 | 281.4 | .031 |
| 20 | 9.93 | 32.964 | 5.34 | 1.24 | 20 | 9.93 | 32.97 | 5.34 | 1.24 | 25.40 | 259.3 | .058 |
| 30 | 9.59 | 33.185 | 4.97 | 1.17 | 30 | 9.59 | 33.19 | 4.97 | 1.17 | 25.63 | 237.8 | .083 |
| 50 | 8.85 | 33.571 | 4.43 | 1.66 | 50 | 8.85 | 33.58 | 4.43 | 1.67 | 26.05 | 198.2 | .126 |
| 77 | 8.66 | 33.756 | 4.27 | 2.26 | 75 | 8.66 | 33.75 | 4.29 | 2.23 | 26.22 | 182.8 | .174 |
| 110 | 7.95 | 33.867 | 2.91 | 1.93 | 100 | 8.22 | 33.85 | 3.46 | 2.15 | 26.36 | 169.5 | .218 |
| RH025 42 0.0 N 124 46.2 W DATE 23 JUL 63 1526 GCT WIRE 18 DRY 60.7 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 20 KTS BAR 13 SWELL DIRECTION 34 H 06 T 07 CLOUD 01 AMT 03 WEATHER 03 | | | | | | | | | | | | |
| 0 | 15.60 | 32.539 | 5.84 | .52 | 0 | 15.60 | 32.54 | 5.84 | .52 | 23.98 | 395.1 | 0 |
| 9 | 15.59 | 32.535 | 5.97 | .43 | 10 | 15.59 | 32.54 | 5.97 | .43 | 23.97 | 395.7 | .040 |
| 19 | 15.57 | 32.535 | 6.02 | .42 | 20 | 15.56 | 32.54 | 6.04 | .41 | 23.98 | 395.3 | .079 |
| 28 | 15.18 | 32.552 | 6.15 | .39 | 30 | 14.74 | 32.55 | 6.13 | .40 | 24.17 | 377.2 | .118 |
| 47 | 10.59 | 32.633 | 5.97 | .67 | 50 | 10.32 | 32.67 | 5.92 | .76 | 25.11 | 288.3 | .194 |
| 72 | 9.60 | 33.016 | 5.35 | 1.44 | 75 | 9.45 | 33.07 | 5.21 | 1.50 | 25.57 | 244.8 | .251 |
| 97 | 8.45 | 33.474 | 4.15 | 1.81 | 100 | 8.41 | 33.51 | 4.04 | 1.84 | 26.07 | 197.0 | .306 |
| 143 | 8.34 | 33.887 | 2.90 | 2.16 | 150 | 8.30 | 33.92 | 2.78 | 2.20 | 26.41 | 166.3 | .397 |
| 193 | 7.97 | 34.012 | 2.25 | 2.34 | 200 | 7.92 | 34.02 | 2.19 | 2.32 | 26.54 | 153.8 | .477 |
| 293 | 7.16 | 34.082 | 1.66 | 1.94 | 250 | 7.52 | 34.07 | 1.84 | 2.14 | 26.64 | 145.5 | .552 |
| 395 | 6.18 | 34.103 | 1.28 | 2.08 | 300 | 7.09 | 34.08 | 1.63 | 1.95 | 26.71 | 139.2 | .623 |
| 493 | 5.30 | 34.099 | .85 | 3.24 | 400 | 6.13 | 34.10 | 1.26 | 2.15 | 26.85 | 126.7 | .756 |
| 593 | 4.90 | 34.198 | .52 | 2.53 | 500 | 5.26 | 34.10 | .82 | 3.19 | 26.96 | 116.2 | .877 |
| | | | | | 600 | 4.87 | 34.20 | .50 | 2.48 | 27.09 | 105.6 | .988 |
| RH035 42 0.1 N 124 59.9 W DATE 23 JUL 63 1238 GCT WIRE 10 DRY 60.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 24 KTS BAR 13 SWELL DIRECTION 29 H 08 T 07 CLOUD 00 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.26 | 32.413 | 5.67 | .26 | 0 | 16.26 | 32.42 | 5.68 | .26 | 23.73 | 418.4 | 0 |
| 10 | 16.26 | 32.413 | 5.70 | | 10 | 16.26 | 32.42 | 5.70 | .93 | 23.73 | 418.7 | .042 |
| 20 | 16.25 | 32.423 | 5.85 | .95 | 20 | 16.25 | 32.43 | 5.85 | .96 | 23.74 | 418.0 | .084 |
| 30 | 15.50 | 32.554 | 5.81 | .31 | 30 | 15.50 | 32.56 | 5.82 | .31 | 24.01 | 392.7 | .124 |
| 49 | 11.22 | 32.646 | 6.70 | .50 | 50 | 11.12 | 32.65 | 6.67 | .52 | 24.96 | 302.6 | .194 |
| 75 | 9.92 | 32.891 | 5.44 | .96 | 75 | 9.92 | 32.90 | 5.44 | .97 | 25.35 | 265.5 | .265 |
| 102 | 9.11 | 33.153 | 4.94 | 1.12 | 100 | 9.16 | 33.13 | 4.97 | 1.11 | 25.66 | 236.5 | .327 |
| 150 | 8.07 | 33.806 | 3.18 | 1.94 | 150 | 8.07 | 33.81 | 3.18 | 1.95 | 26.36 | 170.9 | .429 |
| 205 | 7.41 | 33.912 | 2.96 | 2.38 | 200 | 7.45 | 33.90 | 2.98 | 2.36 | 26.52 | 156.1 | .511 |
| 306 | 6.62 | 34.012 | 1.93 | 2.37 | 250 | 7.03 | 33.97 | 2.54 | 2.38 | 26.63 | 146.4 | .587 |
| 407 | 5.66 | 34.074 | 1.15 | 3.01 | 300 | 6.66 | 34.01 | 2.00 | 2.38 | 26.71 | 139.1 | .658 |
| 509 | 5.13 | 34.180 | .74 | 3.24 | 400 | 5.72 | 34.07 | 1.19 | 2.96 | 26.88 | 123.9 | .789 |
| 612 | 4.76 | 34.218 | .70 | 3.05 | 500 | 5.16 | 34.17 | .76 | 3.24 | 27.03 | 110.0 | .906 |
| 817 | 4.14 | 34.355 | .31 | 2.62 | 600 | 4.80 | 34.21 | .70 | 3.08 | 27.10 | 104.0 | 1.013 |
| 1020 | 3.56 | 34.439 | .41 | 3.35 | 700 | 4.48 | 34.28 | .53 | 2.80 | 27.19 | 96.4 | 1.113 |
| | | | | | 800 | 4.19 | 34.34 | .34 | 2.63 | 27.27 | 88.6 | 1.206 |
| | | | | | 1000 | 3.62 | 34.43 | .38 | 3.23 | 27.40 | 77.0 | 1.371 |
| RH045 42 0.5 N 125 10.4 W DATE 23 JUL 63 2300 GCT WIRE 13 DRY 63.2 WET 57.9 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 16 KTS BAR 14 SWELL DIRECTION 32 H 03 T 07 CLOUD 08 AMT 09 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.63 | 32.578 | 5.64 | .36 | 0 | 16.63 | 32.58 | 5.65 | .36 | 23.77 | 414.4 | 0 |
| 10 | 16.62 | 32.578 | 5.57 | .36 | 10 | 16.63 | 32.58 | 5.57 | .36 | 23.78 | 414.5 | .041 |
| 19 | 16.46 | 32.609 | 5.70 | .34 | 20 | 16.41 | 32.62 | 5.72 | .34 | 23.85 | 407.5 | .083 |
| 29 | 15.60 | 32.696 | 5.89 | .38 | 30 | 15.39 | 32.69 | 5.91 | .38 | 24.14 | 380.3 | .122 |
| 48 | 11.18 | 32.646 | 6.05 | .47 | 50 | 10.93 | 32.67 | 6.02 | .50 | 25.00 | 298.6 | .190 |
| 100 | 8.62 | 33.376 | 4.53 | 1.49 | 75 | 8.85 | 32.97 | 5.42 | .95 | 25.58 | 243.8 | .258 |
| 149 | 8.08 | 33.776 | 3.32 | 2.07 | 100 | 8.63 | 33.38 | 4.54 | 1.49 | 25.94 | 210.0 | .314 |
| 203 | 7.44 | 33.921 | 3.01 | 2.04 | 150 | 8.07 | 33.78 | 3.31 | 2.07 | 26.33 | 173.1 | .410 |
| 299 | 6.48 | 34.017 | 1.90 | 2.66 | 200 | 7.48 | 33.92 | 3.02 | 2.05 | 26.53 | 155.3 | .492 |
| | | | | | 250 | 6.94 | 33.99 | 2.56 | 2.24 | 26.66 | 143.1 | .567 |
| | | | | | 300 | 6.47 | 34.02 | 1.89 | 2.67 | 26.74 | 135.9 | .636 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| RH065 42 0.2 N 125 40.2 W DATE 24 JUL 63 0814 GCT WIRE 18 DRY 60.7 WET 55.7 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 02 KTS BAR 15 SWELL DIRECTION 29 H 01 T 08 CLOUD - AMT - WEATHER 00 | | | | | | | | | | | | |
| 0 | 16.25 | 32.171 | 5.81 | .32 | 0 | 16.25 | 32.18 | 5.82 | .32 | 23.55 | 435.9 | 0 |
| 9 | 16.43 | 32.449 | 5.85 | .31 | 10 | 16.41 | 32.48 | 5.86 | .31 | 23.74 | 417.5 | .043 |
| 19 | 16.19 | 32.681 | 5.94 | .31 | 20 | 16.18 | 32.69 | 5.93 | .32 | 23.96 | 397.3 | .083 |
| 29 | 16.12 | 32.718 | 5.85 | .38 | 30 | 15.98 | 32.72 | 5.90 | .37 | 24.02 | 391.3 | .123 |
| 48 | 12.80 | 32.679 | 6.88 | .24 | 50 | 12.53 | 32.68 | 6.86 | .26 | 24.72 | 325.5 | .195 |
| 74 | 10.17 | 32.848 | 5.86 | | 75 | 10.10 | 32.86 | 5.81 | .67 | 25.29 | 270.8 | .269 |
| 100 | 8.89 | 33.277 | 4.56 | 1.30 | 100 | 8.89 | 33.28 | 4.56 | 1.30 | 25.82 | 221.4 | .331 |
| 146 | 8.00 | 33.775 | 3.45 | 2.06 | 150 | 7.95 | 33.80 | 3.37 | 2.06 | 26.36 | 170.1 | .428 |
| 197 | 7.47 | 33.950 | 2.68 | 2.06 | 200 | 7.43 | 33.95 | 2.66 | 2.07 | 26.56 | 152.0 | .509 |
| 289 | 6.32 | 33.982 | 2.26 | 2.36 | 250 | 6.80 | 33.97 | 2.38 | 2.21 | 26.66 | 143.1 | .583 |
| 383 | 5.57 | 34.022 | 1.60 | | 300 | 6.21 | 33.98 | 2.19 | 2.40 | 26.75 | 134.9 | .652 |
| 476 | 5.36 | 34.156 | .76 | 2.95 | 400 | 5.52 | 34.05 | 1.43 | 2.73 | 26.88 | 123.2 | .781 |
| 572 | 4.83 | 34.215 | .46 | | 500 | 5.23 | 34.18 | .65 | 2.99 | 27.02 | 110.6 | .898 |
| 865 | 4.28 | 34.319 | .26 | 3.34 | 600 | 4.78 | 34.22 | .39 | 3.12 | 27.11 | 103.1 | 1.005 |
| 966 | 3.73 | 34.407 | .47 | 3.48 | 700 | 4.59 | 34.25 | .37 | 3.23 | 27.16 | 99.2 | 1.106 |
| | | | | | 800 | 4.40 | 34.29 | .30 | 3.31 | 27.21 | 95.0 | 1.203 |
| RH085 42 0.0 N 126 6.6 W DATE 24 JUL 63 1345 GCT WIRE 03 DRY 60.8 WET 57.4 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 08 KTS BAR 16 SWELL DIRECTION 29 H 03 T 09 CLOUD 04 AMT 09 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.50 | 32.671 | 5.70 | .39 | 0 | 16.50 | 32.68 | 5.70 | | 23.87 | 404.8 | 0 |
| 10 | 16.49 | 32.667 | 5.80 | .29 | 10 | 16.50 | 32.67 | 5.81 | | 23.87 | 405.1 | .040 |
| 20 | 16.14 | 32.699 | 5.76 | .30 | 20 | 16.14 | 32.70 | 5.77 | | 23.98 | 395.5 | .081 |
| 30 | 16.10 | 32.696 | 5.80 | | 30 | 16.10 | 32.70 | 5.81 | | 23.98 | 395.1 | .120 |
| 50 | 12.44 | 32.663 | 6.84 | | 50 | 12.44 | 32.67 | 6.84 | | 24.72 | 325.0 | .192 |
| 76 | 9.65 | 32.846 | 5.65 | | 75 | 9.72 | 32.83 | 5.72 | | 25.33 | 266.9 | .266 |
| 104 | 8.57 | 33.385 | 4.28 | | 100 | 8.65 | 33.30 | 4.46 | | 25.87 | 216.1 | .326 |
| 153 | 7.95 | 33.830 | 3.21 | | 150 | 7.96 | 33.82 | 3.24 | | 26.38 | 168.9 | .423 |
| 208 | 7.24 | 33.950 | 2.79 | | 200 | 7.34 | 33.95 | 2.83 | | 26.57 | 151.2 | .503 |
| 309 | 6.22 | 34.007 | 1.88 | | 250 | 6.79 | 33.98 | 2.40 | | 26.67 | 141.9 | .576 |
| 410 | 5.26 | 34.138 | 1.29 | | 300 | 6.30 | 34.00 | 1.96 | | 26.75 | 134.6 | .645 |
| 512 | 4.91 | 34.234 | .73 | | 400 | 5.34 | 34.12 | 1.34 | | 26.97 | 115.2 | .770 |
| 615 | 4.59 | 34.346 | .40 | | 500 | 4.93 | 34.22 | .79 | | 27.09 | 103.4 | .879 |
| 818 | 4.08 | | .34 | | 600 | 4.63 | 34.33 | .43 | | 27.21 | 93.4 | .977 |
| 1022 | 3.56 | 34.448 | .42 | | 700 | 4.37 | 34.41 | .37 | | 27.31 | 84.9 | 1.067 |
| | | | | | 800 | 4.12 | 34.39 | .35 | | 27.32 | 84.2 | 1.151 |
| | | | | | 1000 | 3.62 | 34.44 | .40 | | 27.41 | 76.3 | 1.311 |
| RH105 42 0.0 N 126 32.2 W DATE 24 JUL 63 1758 GCT WIRE 04 DRY 60.5 WET 58.2 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 12 KTS BAR 17 SWELL DIRECTION 29 H 04 T 09 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.90 | 32.432 | 5.86 | | 0 | 15.90 | 32.44 | 5.86 | | 23.83 | 409.3 | 0 |
| 10 | 15.59 | 32.490 | 5.96 | | 10 | 15.59 | 32.50 | 5.96 | | 23.94 | 398.8 | .040 |
| 20 | 15.24 | 32.526 | 6.07 | | 20 | 15.24 | 32.53 | 6.07 | | 24.04 | 389.0 | .080 |
| 30 | 14.42 | 32.593 | 6.23 | | 30 | 14.42 | 32.60 | 6.23 | | 24.27 | 367.6 | .118 |
| 50 | 12.64 | 32.668 | 6.53 | | 50 | 12.64 | 32.67 | 6.54 | | 24.69 | 328.3 | .187 |
| 76 | 11.50 | 32.781 | 6.17 | | 75 | 11.53 | 32.77 | 6.19 | | 24.97 | 301.4 | .266 |
| 103 | 10.22 | 33.228 | 5.55 | | 100 | 10.36 | 33.17 | 5.63 | | 25.49 | 252.5 | .335 |
| 152 | 8.24 | 33.695 | 3.71 | | 150 | 8.30 | 33.68 | 3.78 | | 26.22 | 183.7 | .444 |
| 205 | 7.55 | 33.924 | 2.97 | | 200 | 7.58 | 33.91 | 3.01 | | 26.51 | 157.3 | .529 |
| 305 | 6.30 | 34.008 | 1.98 | | 250 | 6.95 | 33.99 | 2.47 | | 26.66 | 143.4 | .605 |
| 405 | 5.59 | 34.061 | 1.40 | | 300 | 6.36 | 34.00 | 2.02 | | 26.75 | 135.4 | .674 |
| | | | | | 400 | 5.61 | 34.06 | 1.42 | | 26.88 | 123.3 | .803 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| RH125 42 0.2 N 126 59.9 W DATE 24 JUL 63 2206 GCT WIRE - DRY 62.9 WET 59.9 | | | | | | | | | | | | |
| WIND DIRECTION 11 VEL 10 KTS BAR 20 SWELL DIRECTION 12 H 02 T 08 CLOUD 00 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.78 | 32.534 | 5.71 | | 0 | 16.78 | 32.54 | 5.71 | | 23.70 | 421.0 | 0 |
| 10 | 16.48 | 32.554 | 5.76 | | 10 | 16.48 | 32.56 | 5.77 | | 23.79 | 413.2 | .042 |
| 20 | 16.06 | 32.620 | 5.94 | | 20 | 16.06 | 32.63 | 5.94 | | 23.93 | 399.5 | .082 |
| 29 | 14.99 | 32.613 | 6.09 | | 30 | 14.78 | 32.61 | 6.13 | | 24.21 | 373.6 | .121 |
| 49 | 10.90 | 32.661 | 6.66 | | 50 | 10.82 | 32.66 | 6.64 | | 25.02 | 296.9 | .188 |
| 75 | 10.05 | 32.807 | 5.78 | | 75 | 10.05 | 32.81 | 5.79 | | 25.26 | 273.8 | .259 |
| 102 | 9.56 | 33.337 | 4.71 | | 100 | 9.59 | 33.29 | 4.79 | | 25.72 | 231.2 | .322 |
| 151 | 8.33 | 33.787 | 3.24 | | 150 | 8.35 | 33.78 | 3.26 | | 26.29 | 177.1 | .424 |
| 206 | 7.56 | 33.969 | 2.43 | | 200 | 7.63 | 33.96 | 2.49 | | 26.54 | 154.2 | .507 |
| 307 | 6.28 | 33.998 | 2.04 | | 250 | 6.96 | 33.98 | 2.19 | | 26.65 | 144.2 | .582 |
| 407 | 5.58 | 34.056 | 1.31 | | 300 | 6.36 | 34.00 | 2.05 | | 26.74 | 136.0 | .652 |
| 508 | 5.03 | 34.129 | .88 | | 400 | 5.62 | 34.05 | 1.36 | | 26.88 | 124.0 | .782 |
| 610 | 4.61 | 34.187 | .64 | | 500 | 5.07 | 34.12 | .90 | | 27.00 | 112.4 | .900 |
| 812 | 3.96 | 34.348 | .31 | | 600 | 4.65 | 34.18 | .66 | | 27.09 | 104.7 | 1.008 |
| 1015 | 3.46 | 34.443 | .36 | | 700 | 4.30 | 34.26 | .46 | | 27.19 | 95.4 | 1.108 |
| | | | | | 800 | 3.99 | 34.34 | .32 | | 27.29 | 86.7 | 1.199 |
| | | | | | 1000 | 3.49 | 34.44 | .34 | | 27.42 | 75.2 | 1.361 |
| RH145 42 0.0 N 127 26.6 W DATE 25 JUL 63 1834 GCT WIRE - DRY 62.2 WET 56.7 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 28 KTS BAR 25 SWELL DIRECTION 34 H 07 T 06 CLOUD 08 AMT 05 WEATHER 03 | | | | | | | | | | | | |
| 0 | 16.54 | 32.450 | 5.87 | | 0 | 16.54 | 32.46 | 5.88 | | 23.70 | 421.8 | 0 |
| 10 | 16.53 | 32.443 | 5.88 | | 10 | 16.53 | 32.45 | 5.89 | | 23.69 | 422.4 | .042 |
| 20 | 16.52 | 32.442 | 5.88 | | 20 | 16.52 | 32.45 | 5.89 | | 23.69 | 422.5 | .084 |
| 30 | 16.36 | 32.474 | 6.65 | | 30 | 16.36 | 32.48 | 6.66 | | 23.76 | 416.9 | .126 |
| 49 | 12.54 | 32.688 | 6.75 | | 50 | 12.40 | 32.70 | 6.71 | | 24.75 | 322.0 | .200 |
| 76 | 9.90 | 32.979 | 5.48 | | 75 | 9.96 | 32.97 | 5.54 | | 25.40 | 260.7 | .273 |
| 103 | 8.46 | 33.361 | 4.59 | | 100 | 8.57 | 33.32 | 4.68 | | 25.89 | 213.9 | .332 |
| 152 | 7.80 | 33.873 | 3.11 | | 150 | 7.80 | 33.86 | 3.16 | | 26.43 | 163.5 | .427 |
| 207 | 7.21 | 33.974 | 2.53 | | 200 | 7.28 | 33.96 | 2.57 | | 26.59 | 149.4 | .505 |
| 305 | 6.02 | 34.007 | 2.12 | | 250 | 6.66 | 34.00 | 2.34 | | 26.70 | 139.1 | .577 |
| 403 | 5.45 | 34.090 | 1.14 | | 300 | 6.08 | 34.01 | 2.14 | | 26.79 | 131.5 | .645 |
| 501 | 4.88 | 34.144 | .74 | | 400 | 5.46 | 34.09 | 1.17 | | 26.92 | 119.4 | .770 |
| 601 | 4.55 | 34.214 | .60 | | 500 | 4.89 | 34.14 | .74 | | 27.04 | 108.7 | .884 |
| 799 | 3.90 | 34.340 | .38 | | 600 | 4.55 | 34.21 | .60 | | 27.13 | 101.2 | .989 |
| 1000 | 3.51 | 34.452 | .39 | | 700 | 4.21 | 34.28 | .47 | | 27.22 | 92.9 | 1.086 |
| | | | | | 800 | 3.90 | 34.34 | .38 | | 27.30 | 85.4 | 1.175 |
| | | | | | 1000 | 3.51 | 34.45 | .39 | | 27.43 | 74.4 | 1.335 |
| RH165 42 0.0 N 127 52.8 W DATE 25 JUL 63 1435 GCT WIRE 08 DRY 62.3 WET 56.9 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 30 KTS BAR 26 SWELL DIRECTION 33 H 07 T 06 CLOUD 08 AMT 03 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.51 | 32.496 | 5.71 | | 0 | 16.51 | 32.50 | 5.71 | | 23.74 | 417.8 | 0 |
| 10 | 16.51 | 32.472 | 5.70 | | 10 | 16.51 | 32.48 | 5.70 | | 23.72 | 419.8 | .042 |
| 20 | 16.60 | 32.476 | 5.71 | | 20 | 16.60 | 32.48 | 5.71 | | 23.70 | 421.8 | .084 |
| 30 | 16.48 | 32.487 | 5.69 | | 30 | 16.48 | 32.49 | 5.69 | | 23.74 | 418.6 | .126 |
| 50 | 16.39 | 32.513 | 5.74 | | 50 | 16.40 | 32.52 | 5.74 | | 23.78 | 415.2 | .209 |
| 77 | 10.88 | 32.677 | 6.57 | | 75 | 11.34 | 32.66 | 6.53 | | 24.92 | 306.7 | .300 |
| 104 | 8.47 | 33.151 | 5.00 | | 100 | 8.68 | 33.07 | 5.30 | | 25.69 | 233.7 | .367 |
| 154 | 7.97 | 33.824 | 2.99 | | 150 | 8.01 | 33.78 | 3.11 | | 26.34 | 171.9 | .468 |
| 209 | 7.32 | 33.978 | 2.26 | | 200 | 7.43 | 33.98 | 2.31 | | 26.58 | 150.2 | .549 |
| 311 | 6.15 | 34.019 | 1.84 | | 250 | 6.84 | 34.01 | 2.03 | | 26.69 | 140.3 | .622 |
| 411 | 5.19 | | 1.21 | | 300 | 6.27 | 34.01 | 1.86 | | 26.77 | 133.5 | .690 |
| 513 | 4.76 | | .63 | | 400 | 5.28 | 34.08 | 1.28 | | 26.94 | 117.9 | .816 |
| 616 | 4.51 | 34.233 | .41 | | 500 | 4.79 | 34.15 | .69 | | 27.05 | 107.4 | .928 |
| 819 | 3.91 | | .31 | | 600 | 4.54 | 34.22 | .43 | | 27.14 | 100.5 | 1.032 |
| 1011 | 3.41 | 34.429 | .38 | | 700 | 4.27 | 34.28 | .33 | | 27.21 | 93.3 | 1.129 |
| | | | | | 800 | 3.97 | 34.34 | .32 | | 27.29 | 86.6 | 1.219 |
| | | | | | 1000 | 3.44 | 34.42 | .37 | | 27.41 | 75.6 | 1.381 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| D=NH40 44 38.0 N 125 1.2 W DATE 07 AUG 63 0212 GCT WIRE DRY 62.0 WET 57.8 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 5 KTS BAR 21 SWELL DIRECTION 01 H 3 T - CLOUD 6 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.71 | 28.962 | | | 0 | 16.71 | 28.97 | | | 20.99 | 680.5 | 0 |
| 29 | 10.98 | 32.569 | | | 10 | 12.00 | 32.54 | | | 24.70 | 325.8 | .050 |
| 49 | 9.91 | 32.604 | | | 20 | 11.46 | 32.55 | | | 24.82 | 315.4 | .082 |
| 147 | 7.41 | 33.946 | | | 30 | 10.90 | 32.59 | | | 24.95 | 302.9 | .113 |
| 197 | 7.25 | 33.983 | | | 50 | 9.87 | 32.62 | | | 25.14 | 284.8 | .172 |
| 246 | 7.14 | 34.020 | | | 75 | 8.89 | 32.95 | | | 25.56 | 245.6 | .238 |
| 296 | 6.97 | 34.038 | | | 100 | 8.14 | 33.29 | | | 25.93 | 210.1 | .295 |
| | | | | | 150 | 7.39 | 33.95 | | | 26.57 | 150.6 | .385 |
| | | | | | 200 | 7.24 | 33.99 | | | 26.61 | 147.0 | .460 |
| | | | | | 250 | 7.13 | 34.02 | | | 26.66 | 143.5 | .532 |
| | | | | | 300 | 6.96 | 34.04 | | | 26.69 | 140.7 | .603 |
| D=NH23 44 38.0 N 124 36.0 W DATE 06 AUG 63 2122 GCT WIRE 29 DRY 59.1 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 4 KTS BAR 21 SWELL DIRECTION 32 H 3 T - CLOUD 6 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.02 | 31.712 | | | 0 | 13.02 | 31.72 | | | 23.88 | 404.6 | 0 |
| 8 | 11.89 | 31.993 | | | 10 | 11.81 | 32.02 | | | 24.34 | 360.5 | .038 |
| 17 | 11.46 | 32.109 | | | 20 | 10.91 | 32.19 | | | 24.63 | 332.8 | .073 |
| 26 | 9.72 | 32.373 | | | 30 | 9.30 | 32.48 | | | 25.12 | 286.1 | .104 |
| 44 | 8.51 | 32.795 | | | 50 | 8.33 | 32.91 | | | 25.61 | 239.7 | .156 |
| 89 | 7.99 | 33.509 | | | 75 | 8.15 | 33.33 | | | 25.97 | 206.5 | .212 |
| 137 | 7.62 | 33.904 | | | 100 | 7.91 | 33.63 | | | 26.24 | 181.2 | .261 |
| 184 | 6.99 | 34.003 | | | 150 | 7.47 | 33.96 | | | 26.56 | 151.3 | .344 |
| D=N40A 44 29.0 N 125 10.0 W DATE 07 AUG 63 1939 GCT WIRE 0 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 5 KTS BAR 22 SWELL DIRECTION 35 H 4 T - CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.69 | 30.721 | | | 0 | 15.69 | 30.73 | | | 22.56 | 530.1 | 0 |
| 10 | 15.27 | 31.920 | | | 10 | 15.27 | 31.92 | | | 23.57 | 433.8 | .048 |
| 20 | 11.04 | 32.473 | | | 20 | 11.04 | 32.48 | | | 24.83 | 313.8 | .086 |
| 30 | 10.42 | 32.555 | | | 30 | 10.42 | 32.56 | | | 25.00 | 297.6 | .116 |
| 50 | 9.42 | 32.828 | | | 50 | 9.42 | 32.83 | | | 25.38 | 261.9 | .172 |
| 100 | 8.31 | 33.653 | | | 75 | 8.71 | 33.27 | | | 25.83 | 219.4 | .232 |
| 150 | 7.75 | 33.882 | | | 100 | 8.31 | 33.66 | | | 26.20 | 184.9 | .283 |
| 200 | 7.15 | 33.977 | | | 150 | 7.76 | 33.89 | | | 26.46 | 160.7 | .369 |
| 250 | 6.81 | 34.041 | | | 200 | 7.16 | 33.98 | | | 26.62 | 146.1 | .446 |
| 300 | 6.62 | 34.054 | | | 250 | 6.82 | 34.01 | | | 26.69 | 140.5 | .517 |
| | | | | | 300 | 6.62 | 34.05 | | | 26.75 | 135.1 | .586 |
| NH 23A 44 38.0 N 124 6.0 W DATE 08 AUG 63 0919 GCT WIRE 30 DRY 59.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 2 KTS BAR 17 SWELL DIRECTION 32 H 4 T - CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.94 | 32.018 | | | 0 | 11.94 | 32.02 | | | 24.32 | 362.5 | 0 |
| 8 | 11.94 | 32.024 | | | 10 | 11.75 | 32.05 | | | 24.38 | 357.1 | .036 |
| 17 | 10.81 | 32.215 | | | 20 | 10.31 | 32.31 | | | 24.83 | 314.3 | .070 |
| 26 | 9.38 | 32.400 | | | 30 | 9.12 | 32.56 | | | 25.22 | 276.9 | .099 |
| 44 | 8.81 | 32.785 | | | 50 | 8.59 | 32.93 | | | 25.59 | 241.9 | .151 |
| 69 | 7.97 | 33.407 | | | 75 | 7.87 | 33.52 | | | 26.16 | 188.3 | .205 |
| 94 | 7.65 | 33.707 | | | 100 | 7.59 | 33.84 | | | 26.45 | 161.2 | .248 |
| 142 | 7.26 | 33.952 | | | 150 | 7.19 | 33.97 | | | 26.61 | 146.8 | .325 |
| 194 | 6.77 | 34.015 | | | 200 | 7.16 | 33.98 | | | 26.62 | 146.1 | .399 |
| NH 23B 44 38.0 N 124 38.0 W DATE 08 AUG 63 1023 GCT WIRE 0 DRY 58.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 2 KTS BAR 17 SWELL DIRECTION 35 H 4 T - CLOUD - AMT 0 WEATHER - | | | | | | | | | | | | |
| 0 | 11.66 | 32.041 | | | 0 | 11.66 | 32.07 | | | 24.40 | 354.5 | 0 |
| 10 | 11.56 | 32.073 | | | 10 | 11.56 | 32.08 | | | 24.43 | 352.0 | .035 |
| 20 | 9.78 | 32.442 | | | 20 | 9.78 | 32.45 | | | 25.02 | 295.6 | .068 |
| 30 | 9.25 | 32.549 | | | 30 | 9.25 | 32.55 | | | 25.19 | 279.7 | .096 |
| 50 | 8.41 | 33.038 | | | 50 | 8.41 | 33.04 | | | 25.70 | 231.3 | .148 |
| 77 | | 33.616 | | | 75 | 7.86 | 33.58 | | | 26.21 | 183.9 | .199 |
| 105 | 7.56 | 33.844 | | | 100 | 7.58 | 33.84 | | | 26.45 | 161.2 | .243 |
| 155 | 7.14 | 33.959 | | | 150 | 7.21 | 33.95 | | | 26.59 | 148.5 | .320 |
| 210 | 6.67 | 34.041 | | | 200 | 6.77 | 34.03 | | | 26.71 | 137.5 | .391 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 23C 44 38.0 N 124 38.0 W DATE 08 AUG 63 1132 GCT WIRE - DRY 58.0 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 17 SWELL DIRECTION 35 H 3 T - CLOUD - AMT 0 WEATHER - | | | | | | | | | | | | |
| 0 | 11.74 | 32.061 | | | 0 | 11.74 | 32.07 | | | 24.39 | 355.9 | 0 |
| 10 | 11.67 | 32.118 | | | 10 | 11.67 | 32.12 | | | 24.44 | 350.6 | .035 |
| 20 | 9.76 | 32.426 | | | 20 | 9.76 | 32.43 | | | 25.01 | 296.5 | .068 |
| 30 | 9.36 | 32.539 | | | 30 | 9.36 | 32.54 | | | 25.17 | 282.1 | .097 |
| 50 | 8.46 | 32.899 | | | 50 | 8.46 | 32.90 | | | 25.59 | 242.3 | .149 |
| 77 | 7.92 | 33.507 | | | 75 | 7.94 | 33.46 | | | 26.10 | 193.6 | .204 |
| 105 | 7.61 | 33.866 | | | 100 | 7.65 | 33.82 | | | 26.42 | 163.5 | .248 |
| 155 | 7.19 | 33.954 | | | 150 | 7.23 | 33.95 | | | 26.58 | 149.1 | .326 |
| 210 | 6.69 | 34.041 | | | 200 | 6.78 | 34.03 | | | 26.71 | 137.9 | .398 |
| NH 23D 44 38.0 N 124 38.0 W DATE 08 AUG 63 1221 GCT WIRE 8 DRY 57.4 WET 55.8 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 17 SWELL DIRECTION 35 H 4 T - CLOUD 6 AMT 3 WEATHER - | | | | | | | | | | | | |
| 0 | 11.13 | 32.190 | | | 0 | 11.13 | 32.19 | | | 24.60 | 335.9 | 0 |
| 10 | 11.02 | 32.214 | | | 10 | 11.02 | 32.22 | | | 24.64 | 332.4 | .033 |
| 19 | 9.82 | 32.459 | | | 20 | 9.77 | 32.47 | | | 25.04 | 293.7 | .065 |
| 29 | 9.59 | 32.550 | | | 30 | 9.55 | 32.56 | | | 25.15 | 283.5 | .094 |
| 49 | 8.62 | 32.884 | | | 50 | 8.58 | 32.91 | | | 25.57 | 243.6 | .146 |
| 75 | 7.90 | 33.509 | | | 75 | 7.91 | 33.51 | | | 26.15 | 189.4 | .200 |
| 103 | 7.61 | 33.807 | | | 100 | 7.63 | 33.79 | | | 26.40 | 166.5 | .245 |
| 152 | 7.31 | 33.947 | | | 150 | 7.32 | 33.95 | | | 26.57 | 150.3 | .324 |
| 207 | 6.70 | 34.046 | | | 200 | 6.79 | 34.04 | | | 26.71 | 137.2 | .395 |
| NH 23E 44 38.0 N 124 38.0 W DATE 08 AUG 63 1355 GCT WIRE 11 DRY 56.1 WET 55.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 17 SWELL DIRECTION 34 H 4 T 5 CLOUD X AMT 9 WEATHER - | | | | | | | | | | | | |
| 0 | 11.55 | 32.239 | | | 0 | 11.55 | 32.24 | | | 24.56 | 339.4 | 0 |
| 10 | 11.39 | 32.253 | | | 10 | 11.39 | 32.26 | | | 24.60 | 335.8 | .034 |
| 19 | 10.50 | 32.262 | | | 20 | 10.38 | 32.29 | | | 24.80 | 317.0 | .066 |
| 29 | 9.42 | 32.547 | | | 30 | 9.36 | 32.56 | | | 25.18 | 280.8 | .096 |
| 49 | 8.77 | 32.798 | | | 50 | 8.73 | 32.82 | | | 25.48 | 252.2 | .150 |
| 75 | 7.94 | 33.465 | | | 75 | 7.94 | 33.47 | | | 26.11 | 193.2 | .205 |
| 103 | 7.73 | 33.766 | | | 100 | 7.74 | 33.75 | | | 26.36 | 170.0 | .251 |
| 152 | 7.27 | 33.929 | | | 150 | 7.29 | 33.93 | | | 26.56 | 151.2 | .331 |
| 207 | 6.73 | 34.022 | | | 200 | 6.80 | 34.02 | | | 26.70 | 138.9 | .403 |
| NH 23F 44 38.0 N 124 38.0 W DATE 08 AUG 63 1525 GCT WIRE 02 DRY 55.8 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 17 SWELL DIRECTION 34 H 4 T 5 CLOUD X AMT 9 WEATHER - | | | | | | | | | | | | |
| 0 | 11.74 | 32.123 | | | 0 | 11.74 | 32.13 | | | 24.44 | 351.3 | 0 |
| 10 | 11.00 | 32.251 | | | 10 | 11.00 | 32.26 | | | 24.67 | 329.4 | .034 |
| 20 | 9.35 | 32.443 | | | 20 | 9.35 | 32.45 | | | 25.09 | 288.9 | .065 |
| 30 | 9.11 | 32.595 | | | 30 | 9.11 | 32.60 | | | 25.25 | 274.2 | .093 |
| 50 | 8.52 | 33.137 | | | 50 | 8.52 | 33.14 | | | 25.76 | 225.5 | .143 |
| 77 | 7.96 | 33.454 | | | 75 | 7.99 | 33.44 | | | 26.08 | 196.1 | .196 |
| 105 | 7.72 | 33.712 | | | 100 | 7.75 | 33.67 | | | 26.29 | 175.9 | .242 |
| 155 | 7.19 | 33.977 | | | 150 | 7.24 | 33.96 | | | 26.59 | 148.2 | .323 |
| 210 | 6.68 | 34.048 | | | 200 | 6.77 | 34.04 | | | 26.72 | 137.0 | .394 |
| NH 23G 44 38.0 N 124 38.0 W DATE 08 AUG 63 1657 GCT WIRE - DRY 58.0 WET 55.6 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 17 SWELL DIRECTION 34 H 4 T 5 CLOUD X AMT 9 WEATHER - | | | | | | | | | | | | |
| 0 | 11.82 | 32.075 | | | 0 | 11.82 | 32.08 | | | 24.38 | 356.2 | 0 |
| 10 | 11.57 | 32.147 | | | 10 | 11.57 | 32.17 | | | 24.50 | 345.3 | .035 |
| 20 | 10.03 | 32.425 | | | 20 | 10.03 | 32.43 | | | 24.97 | 300.8 | .067 |
| 30 | 9.20 | 32.493 | | | 30 | 9.20 | 32.50 | | | 25.16 | 283.1 | .097 |
| 50 | 8.81 | 32.466 | | | 50 | 8.81 | 32.47 | | | 25.20 | 279.6 | .153 |
| 77 | 7.96 | 33.504 | | | 75 | 8.02 | 33.42 | | | 26.06 | 198.2 | .213 |
| 105 | 7.55 | 33.884 | | | 100 | 7.61 | 33.85 | | | 26.46 | 160.6 | .257 |
| 155 | 6.83 | 34.011 | | | 150 | 6.89 | 34.00 | | | 26.67 | 140.6 | .333 |
| 210 | 6.68 | 34.041 | | | 200 | 6.71 | 34.04 | | | 26.73 | 136.1 | .402 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 23H 44 38.0 N 124 38.0 W DATE 04 AUG 63 1825 GCT WIRE 3 DRY 58.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 2 KTS BAR 17 SWELL DIRECTION 34 H 5 T - CLOUD X AMT 9 WEATHER 10 | | | | | | | | | | | | |
| 0 | 12.42 | 31.932 | | | 0 | 12.42 | 31.94 | | | 24.16 | 377.4 | 0 |
| 10 | 11.73 | 32.123 | | | 10 | 11.73 | 32.13 | | | 24.44 | 351.3 | .036 |
| 20 | 9.46 | 32.440 | | | 20 | 9.46 | 32.44 | | | 25.07 | 290.8 | .069 |
| 30 | 8.98 | 32.673 | | | 30 | 8.98 | 32.68 | | | 25.33 | 266.4 | .096 |
| 50 | 8.53 | 33.097 | | | 50 | 8.53 | 33.10 | | | 25.73 | 228.6 | .146 |
| 77 | 7.96 | 33.530 | | | 75 | 8.00 | 33.49 | | | 26.12 | 192.4 | .199 |
| 105 | 7.32 | 33.940 | | | 100 | 7.43 | 33.88 | | | 26.50 | 156.2 | .242 |
| 155 | 6.89 | 34.019 | | | 150 | 6.91 | 34.01 | | | 26.68 | 139.9 | .316 |
| 210 | 6.72 | 34.036 | | | 200 | 6.73 | 34.03 | | | 26.72 | 136.6 | .385 |
| NH 23I 44 38.0 N 124 38.0 W DATE 08 AUG 63 1955 GCT WIRE 0 DRY 58.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 2 KTS BAR 17 SWELL DIRECTION 34 H 5 T - CLOUD X AMT 9 WEATHER 10 | | | | | | | | | | | | |
| 0 | 12.54 | 31.907 | | | 0 | 12.54 | 31.91 | | | 24.12 | 381.5 | 0 |
| 10 | 12.33 | 31.959 | | | 10 | 12.33 | 31.96 | | | 24.20 | 374.0 | .038 |
| 20 | 9.99 | 32.419 | | | 20 | 9.99 | 32.42 | | | 24.97 | 300.6 | .071 |
| 30 | 9.35 | 32.625 | | | 30 | 9.35 | 32.63 | | | 25.24 | 275.6 | .100 |
| 50 | 8.37 | 33.155 | | | 50 | 8.38 | 33.16 | | | 25.80 | 222.0 | .150 |
| 77 | 7.82 | 33.603 | | | 75 | 7.85 | 33.58 | | | 26.21 | 183.9 | .201 |
| 105 | 7.16 | 33.971 | | | 100 | 7.27 | 33.92 | | | 26.56 | 150.9 | .243 |
| 155 | 6.87 | 34.030 | | | 150 | 6.87 | 34.02 | | | 26.69 | 138.4 | .315 |
| 210 | 6.71 | 34.049 | | | 200 | 6.73 | 34.05 | | | 26.73 | 135.6 | .383 |
| NH 23J 44 38.0 N 124 38.0 W DATE 08 AUG 63 2130 GCT WIRE 0 DRY 58.7 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 2 KTS BAR 16 SWELL DIRECTION 32 H 3 T - CLOUD 6 AMT 4 WEATHER 01 | | | | | | | | | | | | |
| 0 | 13.50 | 31.724 | | | 0 | 13.50 | 31.73 | | | 23.79 | 412.8 | 0 |
| 10 | 11.83 | 32.065 | | | 10 | 11.83 | 32.07 | | | 24.37 | 357.3 | .039 |
| 20 | 9.84 | 32.458 | | | 20 | 9.84 | 32.46 | | | 25.03 | 295.4 | .071 |
| 30 | 9.29 | 32.610 | | | 30 | 9.29 | 32.61 | | | 25.23 | 275.8 | .100 |
| 50 | 8.47 | 32.882 | | | 50 | 8.47 | 32.89 | | | 25.57 | 243.7 | .152 |
| 77 | 8.21 | 33.282 | | | 75 | 8.22 | 33.25 | | | 25.90 | 213.2 | .209 |
| 105 | 7.77 | 33.624 | | | 100 | 7.85 | 33.57 | | | 26.20 | 184.9 | .258 |
| 155 | 7.04 | 33.991 | | | 150 | 7.10 | 33.97 | | | 26.62 | 145.6 | .341 |
| 210 | 6.94 | 34.011 | | | 200 | 6.96 | 34.01 | | | 26.67 | 141.6 | .413 |
| NH 23K 44 38.0 N 124 38.0 W DATE 08 AUG 63 2300 GCT WIRE 33 DRY 60.0 WET 57.9 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 2 KTS BAR 15 SWELL DIRECTION 32 H 5 T - CLOUD 6 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.90 | 31.730 | | | 0 | 13.90 | 31.73 | | | 23.71 | 420.8 | 0 |
| 8 | 11.75 | 32.030 | | | 10 | 11.19 | 32.12 | | | 24.53 | 342.4 | .038 |
| 17 | 9.67 | 32.395 | | | 20 | 9.49 | 32.44 | | | 25.07 | 291.5 | .070 |
| 26 | 9.41 | 32.490 | | | 30 | 9.24 | 32.54 | | | 25.18 | 280.6 | .098 |
| 44 | 8.63 | 32.738 | | | 50 | 8.46 | 32.85 | | | 25.55 | 246.3 | .151 |
| 69 | 8.04 | 33.233 | | | 75 | 7.91 | 33.37 | | | 26.03 | 200.5 | .207 |
| 94 | 7.56 | 33.735 | | | 100 | 7.50 | 33.79 | | | 26.42 | 163.4 | .252 |
| 142 | 7.23 | 33.941 | | | 150 | 7.17 | 33.96 | | | 26.60 | 147.1 | .330 |
| 194 | 6.83 | 33.999 | | | 200 | 6.96 | 34.01 | | | 26.67 | 141.6 | .402 |
| NH 23I 44 38.0 N 124 38.0 W DATE 09 AUG 63 0025 GCT WIRE 17 DRY 60.0 WET 58.2 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 6 KTS BAR 16 SWELL DIRECTION 34 H 5 T - CLOUD 2 AMT 6 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.90 | 31.662 | | | 0 | 13.90 | 31.67 | | | 23.66 | 425.0 | 0 |
| 9 | 10.51 | 32.257 | | | 10 | 10.34 | 32.29 | | | 24.81 | 315.7 | .037 |
| 18 | 9.67 | 32.478 | | | 20 | 9.59 | 32.51 | | | 25.10 | 288.1 | .067 |
| 27 | 9.41 | 32.605 | | | 30 | 9.29 | 32.67 | | | 25.28 | 271.6 | .095 |
| 46 | 8.63 | 33.033 | | | 50 | 8.52 | 33.09 | | | 25.73 | 229.0 | .145 |
| 72 | 8.04 | 33.386 | | | 75 | 7.98 | 33.44 | | | 26.08 | 196.0 | .198 |
| 99 | 7.56 | 33.824 | | | 100 | 7.55 | 33.83 | | | 26.45 | 161.2 | .243 |
| 148 | 7.24 | 33.955 | | | 150 | 7.23 | 33.96 | | | 26.59 | 148.0 | .320 |
| 201 | 6.84 | 34.019 | | | 200 | 6.85 | 34.02 | | | 26.69 | 139.3 | .392 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 23M 44 38.0 N 124 38.0 W DATE 09 AUG 63 0155 GCT WIRE 01 DRY 61.8 WET 58.8 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 3 KTS BAR 16 SWELL DIRECTION 33 H 4 T 5 CLOUD 1 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.62 | 31.717 | | | 0 | 13.63 | 31.72 | | | 23.76 | 415.6 | 0 |
| 10 | 9.97 | 32.323 | | | 10 | 9.97 | 32.33 | | | 24.90 | 307.3 | .036 |
| 20 | 9.73 | 32.510 | | | 20 | 9.73 | 32.51 | | | 25.08 | 289.8 | .066 |
| 30 | 9.27 | 32.608 | | | 30 | 9.27 | 32.61 | | | 25.23 | 275.6 | .094 |
| 50 | 8.44 | 32.939 | | | 50 | 8.44 | 32.94 | | | 25.62 | 239.1 | .146 |
| 77 | 8.10 | 33.371 | | | 75 | 8.11 | 33.34 | | | 25.98 | 205.3 | .201 |
| 105 | 7.59 | 33.835 | | | 100 | 7.68 | 33.76 | | | 26.37 | 168.2 | .248 |
| 155 | 7.13 | 33.976 | | | 150 | 7.16 | 33.96 | | | 26.61 | 146.9 | .327 |
| 210 | 6.88 | 34.024 | | | 200 | 6.91 | 34.02 | | | 26.69 | 139.6 | .398 |
| NH 23N 44 38.0 N 124 38.0 W DATE 09 AUG 63 0326 GCT WIRE 11 DRY 58.9 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 3 KTS BAR 15 SWELL DIRECTION 32 H 4 T 5 CLOUD 2 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.11 | 31.904 | | | 0 | 13.11 | 31.91 | | | 24.01 | 392.2 | 0 |
| 10 | 10.07 | 32.300 | | | 10 | 10.07 | 32.30 | | | 24.86 | 310.6 | .035 |
| 19 | 9.65 | 32.483 | | | 20 | 9.61 | 32.50 | | | 25.09 | 288.9 | .065 |
| 29 | 9.30 | 32.650 | | | 30 | 9.26 | 32.66 | | | 25.28 | 271.6 | .093 |
| 49 | 8.46 | 32.915 | | | 50 | 8.44 | 32.93 | | | 25.61 | 239.7 | .144 |
| 75 | 8.02 | 33.421 | | | 75 | 8.02 | 33.43 | | | 26.06 | 197.6 | .199 |
| 103 | 7.51 | 33.863 | | | 100 | 7.56 | 33.82 | | | 26.44 | 161.9 | .244 |
| 152 | 6.98 | 34.011 | | | 150 | 6.99 | 34.00 | | | 26.66 | 141.5 | .320 |
| 207 | 6.88 | 34.022 | | | 200 | 6.89 | 34.02 | | | 26.69 | 139.7 | .390 |
| NH 23O 44 38.0 N 124 38.0 W DATE 09 AUG 63 0456 GCT WIRE 25 DRY 58.4 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR - SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER - | | | | | | | | | | | | |
| 0 | 12.07 | 32.138 | | | 0 | 12.07 | 32.14 | | | 24.39 | 356.0 | 0 |
| 8 | 11.05 | 32.257 | | | 10 | 10.69 | 32.30 | | | 24.76 | 320.7 | .034 |
| 17 | 9.54 | 32.473 | | | 20 | 9.31 | 32.54 | | | 25.17 | 281.2 | .064 |
| 26 | 9.04 | 32.644 | | | 30 | 8.88 | 32.70 | | | 25.36 | 263.5 | .091 |
| 44 | 8.48 | 32.771 | | | 50 | 8.37 | 32.84 | | | 25.56 | 245.3 | .142 |
| 69 | 8.26 | 33.203 | | | 75 | 8.02 | 33.43 | | | 26.06 | 197.6 | .197 |
| NH 23P 44 38.0 N 124 38.0 W DATE 09 AUG 63 0626 GCT WIRE 6 DRY 58.5 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 3 KTS BAR 16 SWELL DIRECTION 32 H 3 T - CLOUD 8 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.83 | 32.181 | | | 0 | 11.83 | 32.19 | | | 24.46 | 348.6 | 0 |
| 10 | 9.93 | 32.316 | | | 10 | 9.93 | 32.32 | | | 24.90 | 307.2 | .033 |
| 20 | 9.52 | 32.546 | | | 20 | 9.52 | 32.55 | | | 25.15 | 283.9 | .062 |
| 30 | 8.99 | 32.681 | | | 30 | 8.99 | 32.69 | | | 25.34 | 266.0 | .090 |
| 49 | 8.42 | 32.938 | | | 50 | 8.40 | 32.96 | | | 25.64 | 237.3 | .140 |
| 76 | 7.93 | 33.513 | | | 75 | 7.95 | 33.49 | | | 26.12 | 191.7 | .194 |
| 103 | 7.35 | 33.924 | | | 100 | 7.41 | 33.89 | | | 26.51 | 155.0 | .237 |
| 153 | 6.90 | 34.003 | | | 150 | 6.91 | 34.00 | | | 26.67 | 140.9 | .311 |
| 208 | 6.77 | 34.026 | | | 200 | 6.79 | 34.02 | | | 26.70 | 138.2 | .381 |
| NH 23Q 44 38.0 N 124 38.0 W DATE 09 AUG 63 0755 GCT WIRE 12 DRY 58.5 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 2 KTS BAR 16 SWELL DIRECTION 35 H 4 T - CLOUD 6 AMT 5 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.84 | 32.190 | | | 0 | 11.84 | 32.19 | | | 24.47 | 348.1 | 0 |
| 10 | 11.20 | 32.283 | | | 10 | 11.20 | 32.29 | | | 24.66 | 330.4 | .034 |
| 19 | 9.47 | 32.385 | | | 20 | 9.39 | 32.41 | | | 25.06 | 292.3 | .065 |
| 29 | 9.00 | 32.656 | | | 30 | 8.96 | 32.68 | | | 25.34 | 265.8 | .093 |
| 49 | 8.44 | 33.124 | | | 50 | 8.42 | 33.14 | | | 25.78 | 223.9 | .142 |
| 75 | 8.09 | 33.568 | | | 75 | 8.09 | 33.57 | | | 26.17 | 187.7 | .193 |
| 103 | 7.58 | 33.882 | | | 100 | 7.63 | 33.86 | | | 26.46 | 160.5 | .237 |
| 152 | 7.00 | 33.992 | | | 150 | 7.02 | 33.99 | | | 26.65 | 143.1 | .313 |
| 207 | 6.78 | 34.021 | | | 200 | 6.78 | 34.02 | | | 26.70 | 138.5 | .383 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| NH 23B | 44 38.0 N | 124 38.0 | | | DATE 09 AUG 63 | 0920 GCT | WIRE 18 | DRY 57.3 | WET 55.9 | | | |
| WIND DIRECTION 34 VEL | 2 KTS | | BAR 17 | SWELL DIRECTION 35 H | 4 T | - CLOUD | 6 AMT | 8 WEATHER 02 | | | | |
| 0 | 11.73 | 32.162 | | | 0 | 11.73 | 32.17 | | | 24.47 | 348.2 | 0 |
| 9 | 11.40 | 32.283 | | | 10 | 11.18 | 32.30 | | | 24.67 | 329.2 | .034 |
| 18 | 9.41 | 32.444 | | | 20 | 9.25 | 32.50 | | | 25.15 | 283.8 | .065 |
| 27 | 9.02 | 32.606 | | | 30 | 8.91 | 32.75 | | | 25.40 | 260.1 | .092 |
| 46 | 8.39 | 33.066 | | | 50 | 8.29 | 33.14 | | | 25.80 | 222.0 | .140 |
| 72 | 7.85 | 33.631 | | | 75 | 7.80 | 33.67 | | | 26.29 | 176.2 | .190 |
| 99 | 7.47 | 33.887 | | | 100 | 7.46 | 33.89 | | | 26.51 | 155.4 | .231 |
| 148 | 6.96 | 33.996 | | | 150 | 6.95 | 34.00 | | | 26.66 | 141.3 | .305 |
| 201 | 6.83 | 34.014 | | | 200 | 6.83 | 34.01 | | | 26.69 | 139.4 | .375 |
| CH 005 | 43 20.5 N | 124 28.5 W | | | DATE 11 SEP 63 | 0350 GCT | WIRE 02 | DRY 60.0 | WET 58.0 | | | |
| WIND DIRECTION 11 VEL | 02 KTS | | BAR 12 | SWELL DIRECTION 22 H | 02 T | - CLOUD | 04 AMT | 07 WEATHER 00 | | | | |
| 0 | 13.28 | 33.098 | 7.07 | | 0 | 13.28 | 33.10 | 7.07 | | 24.89 | 307.6 | 0 |
| 10 | 11.49 | 33.035 | 6.48 | | 10 | 11.49 | 33.04 | 6.48 | | 25.19 | 279.8 | .029 |
| 20 | 10.08 | 33.132 | 5.56 | | 20 | 10.08 | 33.14 | 5.57 | | 25.51 | 249.3 | .056 |
| 31 | 9.14 | 33.286 | 4.14 | | 30 | 9.20 | 33.27 | 4.26 | | 25.76 | 225.7 | .080 |
| 52 | 8.92 | 33.674 | 3.77 | | 50 | 8.94 | 33.64 | 3.81 | | 26.09 | 194.8 | .122 |
| 77 | 8.70 | 33.846 | 2.94 | | 75 | 8.72 | 33.84 | 3.02 | | 26.28 | 176.6 | .168 |
| CH 015 | 43 20.0 N | 124 43.1 W | | | DATE 11 SEP 63 | 0600 GCT | WIRE 03 | DRY 61.0 | WET 59.0 | | | |
| WIND DIRECTION - | VEL | KTS | BAR 11 | SWELL DIRECTION 22 H | 02 T | 06 CLOUD | 04 AMT | 04 WEATHER 02 | | | | |
| 0 | 15.61 | 32.147 | 6.22 | | 0 | 15.61 | 32.15 | 6.22 | | 23.67 | 424.0 | 0 |
| 10 | 12.04 | 32.355 | 6.59 | | 10 | 12.04 | 32.36 | 6.59 | | 24.56 | 339.7 | .038 |
| 20 | 10.00 | 32.549 | 5.95 | | 20 | 10.00 | 32.55 | 5.95 | | 25.07 | 291.2 | .070 |
| 30 | 9.94 | 32.686 | 5.53 | | 30 | 9.94 | 32.69 | 5.54 | | 25.19 | 280.2 | .098 |
| 50 | 8.84 | 33.071 | 4.54 | | 50 | 8.84 | 33.08 | 4.54 | | 25.66 | 235.1 | .150 |
| 75 | 8.59 | 33.689 | 3.63 | | 75 | 8.59 | 33.69 | 3.64 | | 26.19 | 186.0 | .202 |
| 108 | 8.28 | 33.873 | 3.15 | | 100 | 8.35 | 33.87 | 3.23 | | 26.36 | 170.0 | .247 |
| 158 | 8.04 | 33.967 | 2.35 | | 150 | 8.06 | 33.96 | 2.46 | | 26.48 | 159.6 | .329 |
| 215 | 7.92 | 33.995 | 2.21 | | 200 | 7.94 | 33.99 | 2.25 | | 26.51 | 156.6 | .408 |
| CH 025 | 43 20.5 N | 124 55.1 W | | | DATE 11 SEP 63 | 0906 GCT | WIRE 01 | DRY 61.3 | WET 59.0 | | | |
| WIND DIRECTION 31 VEL | 03 KTS | | BAR 12 | SWELL DIRECTION - H | 01 T | 06 CLOUD | 04 AMT | 04 WEATHER 02 | | | | |
| 0 | 15.40 | 32.223 | 6.40 | | 0 | 15.40 | 32.23 | 6.41 | | 23.78 | 414.1 | 0 |
| 10 | 13.45 | 32.303 | 6.63 | | 10 | 13.45 | 32.31 | 6.64 | | 24.25 | 369.5 | .039 |
| 20 | 10.74 | 32.590 | 6.44 | | 20 | 10.74 | 32.59 | 6.44 | | 24.98 | 300.1 | .073 |
| 31 | 10.37 | 32.750 | 5.94 | | 30 | 10.40 | 32.74 | 5.99 | | 25.15 | 284.1 | .102 |
| 50 | 9.79 | | 4.96 | | 50 | 9.79 | 33.18 | 4.96 | | 25.59 | 242.3 | .154 |
| 76 | 8.64 | 33.697 | 3.75 | | 75 | 8.68 | 33.68 | 3.79 | | 26.16 | 188.4 | .208 |
| 107 | 8.13 | 33.823 | 3.14 | | 100 | 8.20 | 33.81 | 3.23 | | 26.34 | 171.6 | .253 |
| 157 | 7.70 | 33.960 | 2.64 | | 150 | 7.75 | 33.95 | 2.68 | | 26.51 | 156.2 | .335 |
| 214 | 7.23 | 33.995 | 2.44 | | 200 | 7.34 | 33.99 | 2.47 | | 26.60 | 147.9 | .411 |
| 317 | 6.37 | 34.021 | 2.20 | | 250 | 6.91 | 34.01 | 2.39 | | 26.67 | 141.8 | .484 |
| 423 | 5.81 | 34.069 | 1.23 | | 300 | 6.50 | 34.02 | 2.26 | | 26.74 | 136.2 | .553 |
| 529 | 5.45 | 34.144 | .84 | | 400 | 5.91 | 34.06 | 1.45 | | 26.85 | 127.3 | .685 |
| 636 | 4.82 | 34.217 | .48 | | 500 | 5.55 | 34.12 | .92 | | 26.94 | 118.5 | .808 |
| | | | | | 600 | 5.06 | 34.19 | .60 | | 27.06 | 108.8 | .921 |
| CH 035 | 43 20.9 N | 125 10.3 W | | | DATE 11 SEP 63 | 1557 GCT | WIRE - | DRY 61.0 | WET 59.0 | | | |
| WIND DIRECTION 14 VEL | 05 KTS | | BAR 10 | SWELL DIRECTION 19 H | 03 T | 06 CLOUD | 09 AMT | 09 WEATHER 02 | | | | |
| 0 | 15.13 | 32.169 | 6.15 | | 0 | 15.13 | 32.17 | 6.16 | | 23.79 | 412.4 | 0 |
| 10 | 14.56 | 32.510 | 6.41 | | 10 | 14.56 | 32.51 | 6.42 | | 24.18 | 376.1 | .039 |
| 20 | 12.52 | 33.082 | 6.14 | | 20 | 12.52 | 33.09 | 6.15 | | 25.03 | 295.0 | .073 |
| 31 | 10.85 | 33.434 | 5.12 | | 30 | 10.98 | 33.41 | 5.22 | | 25.57 | 243.9 | .100 |
| 51 | 9.13 | 33.632 | 4.08 | | 50 | 9.18 | 33.63 | 4.11 | | 26.04 | 199.2 | .144 |
| 77 | 8.38 | 33.776 | 3.38 | | 75 | 8.40 | 33.77 | 3.42 | | 26.27 | 177.6 | .191 |
| 108 | 8.11 | 33.873 | 2.96 | | 100 | 8.15 | 33.85 | 3.04 | | 26.38 | 167.9 | .234 |
| 159 | 7.66 | 33.927 | 2.64 | | 150 | 7.75 | 33.92 | 2.68 | | 26.49 | 158.0 | .316 |
| 215 | 6.99 | 33.996 | 2.13 | | 200 | 7.17 | 33.98 | 2.27 | | 26.62 | 146.6 | .392 |
| 316 | 6.26 | 34.077 | 1.38 | | 250 | 6.69 | 34.03 | 1.83 | | 26.72 | 137.0 | .463 |
| 422 | 5.82 | 34.107 | 1.06 | | 300 | 6.35 | 34.07 | 1.48 | | 26.80 | 130.5 | .530 |
| 527 | 5.17 | 34.156 | .62 | | 400 | 5.91 | 34.10 | 1.11 | | 26.88 | 123.8 | .657 |
| 632 | 4.50 | 34.229 | .38 | | 500 | 5.35 | 34.14 | .73 | | 26.98 | 114.5 | .776 |
| 837 | 4.00 | 34.375 | .29 | | 600 | 4.69 | 34.21 | .44 | | 27.11 | 103.4 | .885 |
| 1036 | 3.48 | 34.436 | .38 | | 700 | 4.28 | 34.28 | .31 | | 27.21 | 93.5 | .983 |
| | | | | | 800 | 4.05 | 34.35 | .31 | | 27.29 | 86.4 | 1.073 |
| | | | | | 1000 | 3.58 | 34.43 | .35 | | 27.40 | 76.7 | 1.236 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| CH 045 43 20.4 N 125 24.7 W DATE 11 SEP 63 1915 GCT WIRE 06 DRY 63•0 WET 60•3 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 10 KTS BAR 11 SWELL DIRECTION - H 05 T 09 CLOUD 03 AMT 08 WEATHER 01 | | | | | | | | | | | | |
| 0 | 17.49 | 31.827 | 5.75 | | 0 | 17.50 | 31.83 | 5.76 | | 23.00 | 488.4 | 0 |
| 10 | 14.99 | 31.965 | 6.38 | | 10 | 14.99 | 31.97 | 6.39 | | 23.67 | 424.7 | .046 |
| 20 | 9.19 | 32.537 | 5.30 | | 20 | 9.19 | 32.54 | 5.31 | | 25.19 | 279.5 | .081 |
| 31 | 8.81 | 32.803 | 4.73 | | 30 | 8.84 | 32.79 | 4.76 | | 25.44 | 256.3 | .108 |
| 50 | 8.71 | 33.201 | 4.21 | | 50 | 8.71 | 33.21 | 4.21 | | 25.79 | 223.6 | .156 |
| 77 | 8.77 | 33.766 | 3.76 | | 75 | 8.77 | 33.73 | 3.79 | | 26.19 | 185.7 | .207 |
| 108 | 8.31 | 33.861 | 3.27 | | 100 | 8.46 | 33.84 | 3.39 | | 26.32 | 173.7 | .252 |
| 159 | 7.58 | 33.952 | 2.48 | | 150 | 7.69 | 33.94 | 2.61 | | 26.51 | 156.0 | .334 |
| 216 | 7.18 | 34.036 | 1.97 | | 200 | 7.27 | 34.02 | 2.09 | | 26.63 | 145.2 | .409 |
| 318 | 6.29 | 34.083 | 1.37 | | 250 | 6.88 | 34.06 | 1.74 | | 26.72 | 137.4 | .480 |
| 424 | 5.62 | 34.113 | .89 | | 300 | 6.45 | 34.08 | 1.46 | | 26.80 | 130.9 | .547 |
| 520 | 5.05 | 34.152 | .67 | | 400 | 5.76 | 34.11 | .98 | | 26.90 | 121.6 | .673 |
| 634 | 4.72 | 34.226 | .39 | | 500 | 5.16 | 34.14 | .71 | | 27.00 | 112.1 | .790 |
| 839 | 4.07 | 34.351 | .28 | | 600 | 4.80 | 34.20 | .47 | | 27.09 | 104.9 | .898 |
| 1036 | 3.47 | 34.424 | .70 | | 700 | 4.51 | 34.27 | .30 | | 27.18 | 97.2 | .999 |
| | | | | | 800 | 4.20 | 34.33 | .30 | | 27.26 | 89.7 | 1.093 |
| | | | | | 1000 | 3.58 | 34.41 | .58 | | 27.39 | 78.0 | 1.260 |
| CH 065 43 20.5 N 125 51.4 W DATE 11 SEP 63 2328 GCT WIRE 08 DRY 67•0 WET 63.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 14 KTS BAR 11 SWELL DIRECTION 20 H 06 T 08 CLOUD 09 AMT 09 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.66 | 31.891 | 5.69 | | 0 | 18.67 | 31.90 | 5.69 | | 22.76 | 510.8 | 0 |
| 10 | 18.59 | 31.894 | 5.57 | | 10 | 18.59 | 31.90 | 5.57 | | 22.78 | 509.2 | .051 |
| 20 | 13.32 | 32.404 | 6.44 | | 20 | 13.32 | 32.41 | 6.44 | | 24.35 | 359.8 | .094 |
| 30 | 11.44 | 32.508 | 6.30 | | 30 | 11.44 | 32.51 | 6.31 | | 24.79 | 318.2 | .128 |
| 49 | 9.81 | 32.697 | 5.49 | | 50 | 9.75 | 32.72 | 5.44 | | 25.24 | 275.6 | .188 |
| 101 | 8.18 | 33.745 | 3.18 | | 75 | 8.66 | 33.23 | 4.24 | | 25.81 | 221.6 | .250 |
| 151 | 7.70 | 33.929 | 2.58 | | 100 | 8.19 | 33.73 | 3.22 | | 26.27 | 178.1 | .300 |
| 205 | 7.21 | 33.996 | 2.24 | | 150 | 7.70 | 33.93 | 2.58 | | 26.50 | 157.1 | .384 |
| 306 | 6.26 | 34.048 | 1.58 | | 200 | 7.26 | 33.99 | 2.26 | | 26.62 | 146.6 | .459 |
| 409 | 5.58 | 34.109 | .91 | | 250 | 6.77 | 34.02 | 1.95 | | 26.71 | 138.5 | .531 |
| 512 | 5.26 | 34.197 | .64 | | 300 | 6.31 | 34.05 | 1.62 | | 26.79 | 131.7 | .598 |
| 615 | 4.66 | 34.223 | .40 | | 400 | 5.63 | 34.10 | .96 | | 26.92 | 120.3 | .724 |
| 818 | 4.08 | 34.345 | .25 | | 500 | 5.30 | 34.19 | .66 | | 27.02 | 110.4 | .839 |
| 1021 | 3.52 | 34.427 | .34 | | 600 | 4.75 | 34.22 | .43 | | 27.11 | 103.0 | .946 |
| | | | | | 700 | 4.37 | 34.27 | .30 | | 27.19 | 95.4 | 1.045 |
| | | | | | 800 | 4.11 | 34.33 | .26 | | 27.27 | 88.5 | 1.137 |
| | | | | | 1000 | 3.58 | 34.42 | .32 | | 27.39 | 77.5 | 1.303 |
| CH 085 43 20.5 N 126 19.1 W DATE 12 SEP 63 0741 GCT WIRE 03 DRY 66•0 WET 64.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 12 KTS BAR 11 SWELL DIRECTION 20 H 06 T 06 CLOUD 09 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 19.03 | 31.901 | 5.59 | | 0 | 19.03 | 31.91 | 5.59 | | 22.68 | 518.9 | 0 |
| 10 | 19.01 | 31.889 | 5.59 | | 10 | 19.01 | 31.89 | 5.59 | | 22.68 | 519.5 | .052 |
| 20 | 17.38 | 31.900 | 6.08 | | 20 | 17.38 | 31.90 | 6.08 | | 23.08 | 481.1 | .102 |
| 31 | 16.22 | 32.216 | 6.18 | | 30 | 16.34 | 32.18 | 6.18 | | 23.53 | 437.9 | .148 |
| 50 | 11.55 | 32.545 | 6.86 | | 50 | 11.55 | 32.55 | 6.86 | | 24.80 | 317.8 | .223 |
| 76 | 9.44 | 32.840 | 5.40 | | 75 | 9.46 | 32.83 | 5.48 | | 25.37 | 263.2 | .296 |
| 108 | 8.84 | 33.473 | 3.91 | | 100 | 8.87 | 33.32 | 4.23 | | 25.85 | 218.5 | .356 |
| 159 | 8.43 | 33.781 | 2.98 | | 150 | 8.49 | 33.76 | 3.06 | | 26.26 | 180.5 | .456 |
| 215 | 7.50 | 33.948 | 2.46 | | 200 | 7.76 | 33.92 | 2.57 | | 26.48 | 159.4 | .541 |
| 318 | 6.34 | 34.027 | 1.72 | | 250 | 7.04 | 33.99 | 2.19 | | 26.65 | 144.5 | .617 |
| 424 | 5.70 | 34.088 | 1.07 | | 300 | 6.50 | 34.02 | 1.84 | | 26.74 | 135.7 | .687 |
| 529 | 4.97 | 34.154 | .66 | | 400 | 5.82 | 34.07 | 1.20 | | 26.87 | 124.8 | .817 |
| 634 | 4.74 | 34.229 | .39 | | 500 | 5.15 | 34.14 | .75 | | 27.00 | 112.6 | .936 |
| 840 | 4.05 | 34.351 | .27 | | 600 | 4.79 | 34.20 | .46 | | 27.10 | 104.6 | 1.044 |
| 1039 | 3.54 | 34.420 | .37 | | 700 | 4.53 | 34.27 | .31 | | 27.18 | 97.1 | 1.145 |
| | | | | | 800 | 4.19 | 34.33 | .29 | | 27.26 | 89.6 | 1.238 |
| | | | | | 1000 | 3.63 | 34.41 | .33 | | 27.38 | 78.9 | 1.407 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 105 43 20.3 N 126 45.4 W DATE 12 SEP 63 1238 GCT WIRE 08 DRY 65.1 WET 64.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 04 KTS BAR 12 SWELL DIRECTION 20 H 04 T 06 CLOUD 09 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.43 | 31.864 | 5.64 | | 0 | 18.44 | 31.87 | 5.65 | | 22.80 | 507.4 | 0 |
| 10 | 18.54 | 31.860 | 5.60 | | 10 | 18.54 | 31.86 | 5.60 | | 22.77 | 510.5 | .051 |
| 20 | 16.42 | 32.339 | 6.05 | | 20 | 16.42 | 32.34 | 6.06 | | 23.64 | 427.8 | .098 |
| 30 | 14.09 | 32.399 | 6.38 | | 30 | 14.09 | 32.40 | 6.39 | | 24.19 | 375.3 | .138 |
| 50 | 11.68 | 32.569 | 6.30 | | 50 | 11.68 | 32.57 | 6.31 | | 24.79 | 318.3 | .207 |
| 76 | 9.79 | 32.903 | 5.15 | | 75 | 9.84 | 32.89 | 5.20 | | 25.36 | 264.7 | .280 |
| 108 | 9.07 | 33.332 | 4.36 | | 100 | 9.15 | 33.23 | 4.52 | | 25.73 | 229.3 | .342 |
| 159 | 8.50 | 33.834 | 3.40 | | 150 | 8.57 | 33.77 | 3.55 | | 26.25 | 181.5 | .445 |
| 215 | 7.89 | 33.959 | 2.63 | | 200 | 8.06 | 33.95 | 2.80 | | 26.47 | 161.1 | .530 |
| 317 | 6.40 | 33.992 | 2.12 | | 250 | 7.38 | 33.98 | 2.40 | | 26.59 | 149.9 | .608 |
| 423 | 5.36 | 34.043 | 1.31 | | 300 | 6.65 | 33.99 | 2.17 | | 26.69 | 140.5 | .680 |
| 528 | 5.10 | 34.177 | .57 | | 400 | 5.53 | 34.03 | 1.50 | | 26.87 | 124.7 | .813 |
| 633 | 4.57 | 34.219 | .40 | | 500 | 5.15 | 34.14 | .74 | | 27.01 | 112.0 | .931 |
| 839 | 4.09 | 34.342 | .28 | | 600 | 4.74 | 34.21 | .42 | | 27.11 | 103.6 | 1.039 |
| 1038 | 3.53 | 34.432 | .37 | | 700 | 4.38 | 34.26 | .33 | | 27.18 | 96.5 | 1.139 |
| | | | | | 800 | 4.16 | 34.32 | .28 | | 27.25 | 90.1 | 1.232 |
| | | | | | 1000 | 3.64 | 34.42 | .34 | | 27.39 | 78.5 | 1.401 |
| CH 125 43 20.5 N 127 13.3 W DATE 12 SEP 63 1521 GCT WIRE 03 DRY 65.0 WET 64.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 10 KTS BAR 11 SWELL DIRECTION 20 H 05 T 06 CLOUD 09 AMT 09 WEATHER 01 | | | | | | | | | | | | |
| 0 | 18.29 | 31.823 | 5.62 | | 0 | 18.29 | 31.83 | 5.63 | | 22.80 | 507.1 | 0 |
| 10 | 18.01 | 31.818 | 5.60 | | 10 | 18.01 | 31.82 | 5.60 | | 22.87 | 501.2 | .050 |
| 20 | 17.54 | 32.374 | 5.91 | | 20 | 17.54 | 32.38 | 5.92 | | 23.40 | 450.2 | .098 |
| 31 | 14.96 | 32.376 | 6.22 | | 30 | 15.23 | 32.38 | 6.19 | | 23.93 | 400.4 | .140 |
| 50 | 11.11 | 32.577 | 6.49 | | 50 | 11.11 | 32.58 | 6.49 | | 24.90 | 307.9 | .211 |
| 76 | 9.82 | 32.765 | 5.49 | | 75 | 9.82 | 32.76 | 5.54 | | 25.26 | 274.2 | .284 |
| 108 | 9.24 | 33.493 | 4.43 | | 100 | 9.33 | 33.30 | 4.68 | | 25.76 | 226.5 | .347 |
| 159 | 8.37 | 33.873 | 3.18 | | 150 | 8.53 | 33.85 | 3.36 | | 26.32 | 174.6 | .447 |
| 215 | 7.16 | 33.961 | 2.53 | | 200 | 7.48 | 33.96 | 2.66 | | 26.56 | 152.4 | .529 |
| 316 | 6.01 | 33.995 | 1.88 | | 250 | 6.66 | 33.98 | 2.27 | | 26.69 | 140.3 | .602 |
| 422 | 5.29 | 34.056 | 1.14 | | 300 | 6.13 | 33.99 | 1.96 | | 26.77 | 133.2 | .670 |
| 527 | 4.91 | 34.132 | .67 | | 400 | 5.41 | 34.04 | 1.29 | | 26.90 | 122.1 | .798 |
| 632 | 4.54 | 34.213 | .42 | | 500 | 4.99 | 34.11 | .77 | | 27.00 | 112.4 | .915 |
| 838 | 3.99 | 34.366 | .27 | | 600 | 4.65 | 34.19 | .48 | | 27.10 | 104.2 | 1.023 |
| 1038 | 3.48 | 34.440 | .37 | | 700 | 4.34 | 34.27 | .33 | | 27.20 | 95.3 | 1.123 |
| | | | | | 800 | 4.08 | 34.34 | .27 | | 27.28 | 87.5 | 1.214 |
| | | | | | 1000 | 3.58 | 34.43 | .33 | | 27.40 | 76.7 | 1.378 |
| CH 145 43 20.5 N 127 40.5 W DATE 12 SEP 63 1915 GCT WIRE 05 DRY 69.0 WET 64.0 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 08 KTS BAR 11 SWELL DIRECTION 21 H 05 T 07 CLOUD 04 AMT 05 WEATHER 02 | | | | | | | | | | | | |
| 0 | 19.86 | 31.379 | 5.53 | | 0 | 19.86 | 31.38 | 5.54 | | 22.07 | 576.9 | 0 |
| 10 | 19.72 | 31.387 | 5.41 | | 10 | 19.73 | 31.39 | 5.42 | | 22.11 | 573.2 | .058 |
| 20 | 18.81 | 31.640 | 5.81 | | 20 | 18.81 | 31.65 | 5.82 | | 22.54 | 533.2 | .113 |
| 31 | 16.63 | 32.094 | 6.08 | | 30 | 16.86 | 32.05 | 6.06 | | 23.31 | 459.0 | .162 |
| 50 | 12.07 | 32.601 | 6.67 | | 50 | 12.07 | 32.61 | 6.68 | | 24.74 | 322.9 | .241 |
| 77 | 9.87 | 32.750 | 5.67 | | 75 | 9.93 | 32.74 | 5.79 | | 25.23 | 276.8 | .316 |
| 108 | 8.80 | 33.436 | 4.02 | | 100 | 8.98 | 33.25 | 4.44 | | 25.78 | 225.1 | .378 |
| 159 | 8.06 | 33.836 | 2.90 | | 150 | 8.14 | 33.81 | 3.00 | | 26.34 | 172.0 | .478 |
| 216 | 7.36 | 33.959 | 2.50 | | 200 | 7.55 | 33.94 | 2.57 | | 26.54 | 154.2 | .559 |
| 318 | 6.29 | 34.021 | 1.81 | | 250 | 6.97 | 33.99 | 2.27 | | 26.66 | 143.7 | .634 |
| 423 | 5.63 | 34.089 | 1.08 | | 300 | 6.45 | 34.02 | 1.93 | | 26.74 | 135.7 | .703 |
| 529 | 4.93 | 34.144 | .68 | | 400 | 5.76 | 34.07 | 1.23 | | 26.88 | 124.0 | .833 |
| 634 | 4.58 | 34.217 | .42 | | 500 | 5.11 | 34.13 | .77 | | 27.00 | 112.5 | .951 |
| 839 | 3.96 | 34.360 | .29 | | 600 | 4.67 | 34.19 | .49 | | 27.10 | 104.2 | 1.060 |
| 1036 | 3.46 | 34.421 | .34 | | 700 | 4.37 | 34.27 | .34 | | 27.19 | 95.6 | 1.159 |
| | | | | | 800 | 4.07 | 34.34 | .31 | | 27.28 | 87.8 | 1.251 |
| | | | | | 1000 | 3.54 | 34.42 | .32 | | 27.39 | 77.5 | 1.416 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 165 43 20.5 N 128 8.0 W DATE 12 SEP 63 2415 GCT WIRE 02 DRY 69.7 WET 65.3 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 05 KTS BAR 04 SWELL DIRECTION 22 H 03 T 06 CLOUD 04 AMT 05 WEATHER 02 | | | | | | | | | | | | |
| 0 | 20.21 | 31.477 | 5.49 | | 0 | 20.21 | 31.48 | 5.49 | | 22.06 | 578.5 | 0 |
| 10 | 19.66 | 31.603 | 5.43 | | 10 | 19.67 | 31.61 | 5.44 | | 22.29 | 556.0 | .057 |
| 19 | 19.44 | 31.775 | 5.51 | | 20 | 19.29 | 31.79 | 5.54 | | 22.53 | 534.1 | .111 |
| 29 | 17.49 | 31.948 | 5.88 | | 30 | 17.24 | 31.98 | 5.93 | | 23.17 | 472.7 | .162 |
| 47 | 13.13 | 32.547 | 6.60 | | 50 | 12.68 | 32.59 | 6.53 | | 24.62 | 335.1 | .242 |
| 99 | 9.08 | 32.918 | 5.32 | | 75 | 9.96 | 32.84 | 6.27 | | 25.30 | 269.9 | .318 |
| 150 | 8.29 | 33.732 | 3.28 | | 100 | 9.05 | 32.93 | 5.28 | | 25.52 | 249.4 | .383 |
| 205 | 7.40 | 33.936 | 2.68 | | 150 | 8.29 | 33.74 | 3.29 | | 26.26 | 179.6 | .490 |
| 307 | 6.10 | 33.987 | 1.93 | | 200 | 7.48 | 33.93 | 2.70 | | 26.54 | 154.1 | .573 |
| 412 | 5.31 | 34.066 | 1.07 | | 250 | 6.77 | 33.98 | 2.33 | | 26.68 | 141.5 | .647 |
| 515 | 5.01 | 34.165 | .59 | | 300 | 6.17 | 33.98 | 1.98 | | 26.75 | 134.5 | .716 |
| 619 | 4.60 | 34.246 | .40 | | 400 | 5.37 | 34.06 | 1.16 | | 26.91 | 120.7 | .844 |
| 822 | 4.03 | 34.350 | .27 | | 500 | 5.04 | 34.15 | .64 | | 27.02 | 110.1 | .959 |
| 1024 | 3.51 | 34.427 | .39 | | 600 | 4.68 | 34.23 | .42 | | 27.13 | 101.2 | 1.065 |
| 1218 | 3.06 | 34.483 | .54 | | 700 | 4.35 | 34.29 | .31 | | 27.21 | 93.5 | 1.162 |
| | | | | | 800 | 4.08 | 34.34 | .27 | | 27.28 | 87.5 | 1.253 |
| | | | | | 1000 | 3.57 | 34.42 | .37 | | 27.39 | 77.5 | 1.418 |
| | | | | | 1200 | 3.10 | 34.48 | .52 | | 27.49 | 68.8 | 1.564 |
| CBH159 42 50.5 N 128 0.0 W DATE 13 SEP 63 0622 GCT WIRE 03 DRY 67.0 WET 63.0 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 10 KTS BAR 14 SWELL DIRECTION - H 04 T 06 CLOUD 06 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 19.34 | 31.961 | 5.52 | | 0 | 19.34 | 31.97 | 5.53 | | 22.65 | 522.0 | 0 |
| 10 | 18.02 | 31.986 | 5.66 | | 10 | 18.02 | 31.99 | 5.67 | | 22.99 | 489.2 | .051 |
| 20 | 16.87 | 32.581 | 5.93 | | 20 | 16.88 | 32.59 | 5.94 | | 23.72 | 420.1 | .096 |
| 31 | 15.74 | 32.663 | 6.04 | | 30 | 15.84 | 32.66 | 6.04 | | 24.01 | 392.7 | .137 |
| 50 | 13.56 | 32.793 | 6.01 | | 50 | 13.56 | 32.80 | 6.02 | | 24.60 | 336.5 | .210 |
| 77 | 10.14 | 33.013 | 5.26 | | 75 | 10.36 | 32.99 | 5.33 | | 25.35 | 265.3 | .285 |
| 108 | 9.02 | 33.428 | 4.27 | | 100 | 9.15 | 33.32 | 4.52 | | 25.80 | 222.6 | .346 |
| 160 | 7.74 | 33.875 | 3.24 | | 150 | 7.93 | 33.82 | 3.38 | | 26.38 | 168.6 | .444 |
| 217 | 7.00 | 33.955 | 2.79 | | 200 | 7.18 | 33.93 | 2.89 | | 26.58 | 150.3 | .523 |
| 319 | 5.72 | 34.016 | 1.61 | | 250 | 6.54 | 33.98 | 2.41 | | 26.70 | 138.8 | .595 |
| 424 | 5.22 | 34.101 | .87 | | 300 | 5.93 | 34.01 | 1.83 | | 26.81 | 129.6 | .663 |
| 529 | 4.61 | 34.133 | .71 | | 400 | 5.30 | 34.08 | .99 | | 26.94 | 117.8 | .786 |
| 634 | 4.35 | 34.243 | .42 | | 500 | 4.77 | 34.12 | .73 | | 27.03 | 108.9 | .899 |
| 840 | 3.82 | 34.363 | .33 | | 600 | 4.42 | 34.20 | .51 | | 27.14 | 100.2 | 1.004 |
| 1040 | 3.40 | 34.437 | .46 | | 700 | 4.18 | 34.29 | .34 | | 27.23 | 91.7 | 1.100 |
| | | | | | 800 | 3.92 | 34.35 | .35 | | 27.30 | 85.3 | 1.188 |
| | | | | | 1000 | 3.48 | 34.43 | .42 | | 27.41 | 76.0 | 1.349 |
| BH 165 42 0.0 N 127 52.7 W DATE 13 SEP 63 1704 GCT WIRE 11 DRY 70.6 WET 40.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 14 KTS BAR 18 SWELL DIRECTION 26 H 05 T 07 CLOUD - AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.95 | 32.804 | 5.62 | .28 | 0 | 18.96 | 32.81 | 5.63 | .28 | 23.39 | 451.3 | 0 |
| 10 | 18.90 | 32.795 | 5.54 | .26 | 10 | 18.90 | 32.80 | 5.55 | .26 | 23.39 | 451.0 | .045 |
| 19 | 16.25 | 32.848 | 6.31 | .28 | 20 | 16.08 | 32.85 | 6.31 | .30 | 24.11 | 383.3 | .087 |
| 29 | 14.89 | 32.899 | 6.31 | .54 | 30 | 14.72 | 32.91 | 6.28 | .57 | 24.45 | 350.8 | .124 |
| 48 | 11.63 | 33.112 | 5.41 | 1.08 | 50 | 11.40 | 33.14 | 5.31 | 1.12 | 25.29 | 271.3 | .186 |
| 99 | 8.18 | 33.799 | 3.30 | 1.82 | 75 | 9.15 | 33.50 | 4.17 | 1.55 | 25.95 | 208.7 | .246 |
| 148 | 7.52 | 33.951 | 2.66 | 2.33 | 100 | 8.15 | 33.81 | 3.28 | 1.83 | 26.34 | 171.6 | .293 |
| 200 | 7.16 | 33.985 | 2.39 | 2.12 | 150 | 7.50 | 33.95 | 2.65 | 2.33 | 26.55 | 152.2 | .374 |
| 299 | 6.12 | 34.032 | 1.66 | 2.51 | 200 | 7.17 | 33.99 | 2.40 | 2.13 | 26.63 | 145.6 | .449 |
| 400 | 5.42 | 34.082 | 1.03 | 2.91 | 250 | 6.64 | 34.01 | 2.03 | 2.25 | 26.71 | 137.9 | .520 |
| 499 | 4.99 | 34.175 | .56 | 3.28 | 300 | 6.11 | 34.03 | 1.65 | 2.51 | 26.80 | 130.1 | .586 |
| 599 | 4.58 | 34.252 | .37 | 3.16 | 400 | 5.43 | 34.09 | 1.04 | 2.91 | 26.93 | 119.0 | .711 |
| 797 | 4.03 | 34.333 | .28 | 3.13 | 500 | 4.99 | 34.18 | .56 | 3.28 | 27.05 | 107.5 | .824 |
| 996 | 3.59 | 34.433 | .40 | 2.59 | 600 | 4.58 | 34.25 | .37 | 3.16 | 27.16 | 98.5 | .927 |
| 1201 | 3.15 | 34.482 | .58 | 3.12 | 700 | 4.27 | 34.30 | .29 | 3.16 | 27.23 | 92.2 | 1.022 |
| | | | | | 800 | 4.02 | 34.33 | .28 | 3.12 | 27.28 | 87.3 | 1.112 |
| | | | | | 1000 | 3.58 | 34.43 | .40 | 2.60 | 27.41 | 76.5 | 1.276 |
| | | | | | 1200 | 3.15 | 34.48 | .58 | 3.11 | 27.48 | 69.1 | 1.422 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| RH 145 42 0.0 N 127 27.0 W DATE 13 SEP 63 2150 GCT WIRE 05 DRY 67.6 WET 62.3 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 06 KTS BAR 19 SWELL DIRECTION 32 H 05 T 05 CLOUD 04 AMT 06 WEATHER 02 | | | | | | | | | | | | |
| 0 | 19.56 | 32.595 | 5.52 | .25 | 0 | 19.56 | 32.60 | 5.53 | .25 | 23.07 | 481.2 | 0 |
| 10 | 19.37 | 32.591 | 5.50 | .27 | 10 | 19.38 | 32.60 | 5.51 | .27 | 23.12 | 477.2 | .048 |
| 20 | 16.84 | 32.795 | 6.17 | .31 | 20 | 16.84 | 32.80 | 6.18 | .31 | 23.89 | 403.8 | .092 |
| 30 | 13.76 | 32.952 | 6.27 | .61 | 30 | 13.76 | 32.96 | 6.28 | .62 | 24.68 | 328.3 | .129 |
| 50 | 10.19 | 33.248 | 4.85 | 1.36 | 50 | 10.19 | 33.25 | 4.85 | 1.36 | 25.58 | 243.0 | .186 |
| 76 | 8.96 | 33.488 | 4.14 | 1.70 | 75 | 8.97 | 33.48 | 4.15 | 1.69 | 25.96 | 207.3 | .242 |
| 107 | 8.33 | 33.735 | 3.56 | 1.94 | 100 | 8.42 | 33.69 | 3.67 | 1.90 | 26.20 | 184.5 | .291 |
| 157 | 7.72 | 33.924 | 2.81 | 2.13 | 150 | 7.79 | 33.91 | 2.90 | 2.11 | 26.47 | 159.5 | .377 |
| 213 | 7.06 | 33.980 | 2.44 | 2.41 | 200 | 7.21 | 33.98 | 2.51 | 2.35 | 26.61 | 147.4 | .454 |
| 315 | 5.79 | 34.019 | 1.63 | 2.70 | 250 | 6.55 | 33.99 | 2.16 | 2.53 | 26.71 | 137.9 | .525 |
| 411 | 5.47 | 34.131 | .80 | 3.04 | 300 | 5.95 | 34.01 | 1.76 | 2.66 | 26.81 | 129.5 | .592 |
| 527 | 4.77 | 34.162 | .57 | 2.93 | 400 | 5.49 | 34.12 | .88 | 3.01 | 26.95 | 117.4 | .715 |
| 633 | 4.48 | 34.250 | .34 | 3.80 | 500 | 4.93 | 34.16 | .59 | 2.93 | 27.04 | 108.3 | .828 |
| 839 | 3.94 | 34.360 | .29 | 2.92 | 600 | 4.55 | 34.22 | .41 | 3.53 | 27.14 | 100.6 | .932 |
| 1038 | 3.43 | 34.445 | .39 | 3.23 | 700 | 4.30 | 34.29 | .32 | 3.63 | 27.22 | 93.3 | 1.029 |
| | | | | | 800 | 4.04 | 34.33 | .30 | 3.17 | 27.28 | 87.5 | 1.120 |
| | | | | | 1000 | 3.53 | 34.43 | .36 | 3.08 | 27.41 | 76.4 | 1.283 |
| RH 125 42 0.0 N 126 59.4 W DATE 14 SEP 63 0212 GCT WIRE 03 DRY 67.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 16 KTS BAR 20 SWELL DIRECTION 32 H 04 T 05 CLOUD 08 AMT 03 WEATHER 02 | | | | | | | | | | | | |
| 0 | 19.18 | 31.833 | 5.52 | .23 | 0 | 19.19 | 31.84 | 5.53 | .24 | 22.59 | 527.4 | 0 |
| 10 | 19.11 | 31.856 | 5.50 | .18 | 10 | 19.11 | 31.86 | 5.51 | .19 | 22.63 | 524.3 | .053 |
| 20 | 18.58 | 32.023 | 5.66 | .20 | 20 | 18.58 | 32.03 | 5.67 | .21 | 22.88 | 499.9 | .104 |
| 31 | 16.03 | 32.430 | 6.03 | .32 | 30 | 16.29 | 32.39 | 6.00 | .31 | 23.70 | 421.8 | .150 |
| 50 | 13.34 | 32.918 | 6.17 | .63 | 50 | 13.34 | 32.92 | 6.18 | .63 | 24.74 | 323.1 | .224 |
| 72 | 10.67 | 33.084 | 5.35 | 1.12 | 75 | 10.43 | 33.12 | 5.22 | 1.18 | 25.44 | 256.8 | .297 |
| 108 | 8.76 | 33.502 | 3.92 | 1.75 | 100 | 9.01 | 33.48 | 4.21 | 1.64 | 25.95 | 208.7 | .355 |
| 159 | 7.83 | 33.934 | 3.10 | 2.00 | 150 | 7.91 | 33.90 | 3.17 | 1.98 | 26.45 | 161.9 | .448 |
| 215 | 7.06 | 33.956 | 3.08 | 2.25 | 200 | 7.24 | 33.95 | 3.09 | 2.19 | 26.59 | 149.7 | .525 |
| 317 | 6.22 | 34.041 | 1.73 | 2.59 | 250 | 6.73 | 33.98 | 2.67 | 2.38 | 26.68 | 140.9 | .598 |
| 423 | 5.40 | 34.083 | 1.06 | 2.89 | 300 | 6.33 | 34.03 | 1.99 | 2.54 | 26.77 | 133.4 | .667 |
| 528 | 4.86 | 34.157 | .72 | 2.83 | 400 | 5.56 | 34.07 | 1.16 | 2.84 | 26.90 | 121.6 | .794 |
| 634 | 4.40 | 34.225 | .40 | | 500 | 4.99 | 34.14 | .79 | 2.86 | 27.02 | 110.5 | .910 |
| 840 | 3.98 | 34.363 | .28 | 3.25 | 600 | 4.53 | 34.20 | .49 | 2.94 | 27.12 | 101.7 | 1.016 |
| 1039 | 3.48 | 34.429 | .37 | 2.87 | 700 | 4.24 | 34.27 | .31 | 3.08 | 27.21 | 93.7 | 1.114 |
| | | | | | 800 | 4.04 | 34.34 | .30 | 3.21 | 27.28 | 87.2 | 1.204 |
| | | | | | 1000 | 3.59 | 34.42 | .34 | 2.98 | 27.39 | 77.5 | 1.369 |
| RH 105 42 0.0 N 126 32.4 W DATE 14 SEP 63 0734 GCT WIRE 00 DRY 66.1 WET 59.9 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR - SWELL DIRECTION - H - T - CLOUD - AMT - WEATHER - | | | | | | | | | | | | |
| 0 | 19.30 | 31.891 | 5.51 | .23 | 0 | 19.30 | 31.90 | 5.52 | .24 | 22.60 | 526.1 | 0 |
| 10 | 19.21 | 31.927 | 5.49 | .14 | 10 | 19.21 | 31.93 | 5.49 | .15 | 22.65 | 521.6 | .052 |
| 20 | 17.40 | 32.388 | 5.91 | .26 | 20 | 17.40 | 32.39 | 5.92 | .26 | 23.45 | 446.0 | .101 |
| 31 | 16.00 | 32.533 | 6.05 | .39 | 30 | 16.12 | 32.53 | 6.04 | .38 | 23.85 | 407.9 | .143 |
| 50 | 13.24 | 32.686 | 6.25 | .53 | 50 | 13.24 | 32.69 | 6.26 | .54 | 24.59 | 338.2 | .218 |
| 77 | 11.17 | 32.836 | 5.79 | .67 | 75 | 11.28 | 32.82 | 5.85 | .65 | 25.06 | 293.5 | .297 |
| 108 | 9.27 | 33.403 | 4.40 | 1.56 | 100 | 9.69 | 33.25 | 4.77 | 1.33 | 25.66 | 236.1 | .363 |
| 159 | *8.25 | 33.748 | 3.56 | 1.54 | 150 | 8.32 | 33.72 | 3.64 | 1.54 | 26.25 | 181.3 | .468 |
| 216 | 7.55 | 33.966 | 2.66 | 2.32 | 200 | 7.72 | 33.92 | 2.89 | 2.08 | 26.49 | 158.5 | .552 |
| 318 | 6.32 | 34.026 | 1.82 | 2.77 | 250 | 7.11 | 34.01 | 2.31 | 2.56 | 26.65 | 144.2 | .628 |
| 424 | 5.54 | 34.064 | 1.17 | 2.74 | 300 | 6.52 | 34.02 | 1.92 | 2.75 | 26.73 | 136.6 | .698 |
| 530 | 5.06 | 34.155 | .68 | 2.73 | 400 | 5.68 | 34.05 | 1.30 | 2.77 | 26.87 | 124.6 | .829 |
| 635 | 4.57 | 34.232 | .35 | 2.64 | 500 | 5.18 | 34.13 | .80 | 2.74 | 26.99 | 113.5 | .948 |
| 842 | 4.10 | 34.354 | .29 | 2.67 | 600 | 4.72 | 34.21 | .44 | 2.67 | 27.11 | 103.6 | 1.056 |
| 1040 | 3.57 | 34.434 | .43 | 3.02 | 700 | 4.39 | 34.27 | .33 | 2.65 | 27.20 | 95.4 | 1.156 |
| | | | | | 800 | 4.17 | 34.33 | .30 | 2.66 | 27.26 | 89.2 | 1.248 |
| | | | | | 1000 | 3.68 | 34.42 | .39 | 2.92 | 27.38 | 78.7 | 1.416 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

BH 085 42 0.0 N 126 6.7 W DATE 14 SEP 63 1703 GCT WIRE 02 DRY 66.0 WET 61.0
WIND DIRECTION 34 VEL 10 KTS BAR 18 SWELL DIRECTION 31 H 08 T 10 CLOUD 08 AMT 03 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 18.79 | 31.866 | 5.66 | .24 | 0 | 18.79 | 31.87 | 5.67 | .25 | 22.71 | 515.7 | 0 |
| 10 | 18.16 | 32.259 | 5.50 | .32 | 10 | 18.17 | 32.26 | 5.51 | .32 | 23.17 | 472.6 | .049 |
| 20 | 17.64 | 32.378 | 5.80 | .45 | 20 | 17.65 | 32.38 | 5.81 | .45 | 23.38 | 452.2 | .096 |
| 31 | 15.25 | 32.560 | 6.19 | .39 | 30 | 15.51 | 32.64 | 6.16 | .40 | 24.00 | 393.9 | .138 |
| 51 | 10.57 | 32.669 | 6.30 | .73 | 50 | 10.77 | 32.67 | 6.29 | .71 | 25.03 | 295.9 | .207 |
| 77 | 9.16 | 32.989 | 5.28 | 1.30 | 75 | 9.16 | 32.96 | 5.38 | 1.26 | 25.52 | 248.9 | .275 |
| 108 | 8.23 | 33.429 | 4.39 | 1.65 | 100 | 8.41 | 33.32 | 4.59 | 1.58 | 25.92 | 211.4 | .333 |
| 160 | 7.86 | 33.847 | 3.46 | 2.08 | 150 | 7.88 | 33.79 | 3.59 | 2.02 | 26.37 | 169.3 | .428 |
| 227 | 7.30 | 33.948 | 2.96 | 1.96 | 200 | 7.54 | 33.94 | 3.13 | 2.02 | 26.53 | 154.6 | .509 |
| 318 | 6.18 | 34.006 | 1.90 | 2.68 | 250 | 7.01 | 33.97 | 2.69 | 2.13 | 26.63 | 146.0 | .584 |
| 423 | 5.55 | 34.055 | 1.26 | 2.69 | 300 | 6.40 | 34.00 | 2.11 | 2.52 | 26.74 | 136.3 | .654 |
| 529 | 5.16 | 34.173 | .60 | 3.11 | 400 | 5.65 | 34.04 | 1.37 | 2.69 | 26.87 | 125.0 | .785 |
| 634 | 4.72 | 34.246 | .36 | 3.23 | 500 | 5.26 | 34.14 | .76 | 2.99 | 26.99 | 113.5 | .904 |
| 841 | 4.09 | 34.359 | .30 | 3.28 | 600 | 4.86 | 34.23 | .41 | 3.21 | 27.10 | 103.9 | 1.013 |
| 1039 | 3.60 | 34.439 | .42 | 2.99 | 700 | 4.50 | 34.29 | .30 | 3.28 | 27.19 | 95.8 | 1.113 |
| | | | | | 800 | 4.20 | 34.34 | .31 | 3.27 | 27.27 | 89.0 | 1.205 |
| | | | | | 1000 | 3.69 | 34.43 | .38 | 3.07 | 27.39 | 78.4 | 1.372 |

BH 065 42 0.0 N 125 40.0 W DATE 14 SEP 63 2054 GCT WIRE 22 DRY 64.1 WET 60.4
WIND DIRECTION 35 VEL 05 KTS BAR 17 SWELL DIRECTION 30 H 03 T 09 CLOUD 04 AMT 08 WEATHER 02

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.22 | 32.820 | 6.10 | .60 | 0 | 15.22 | 32.83 | 6.10 | .60 | 24.27 | 366.6 | 0 |
| 9 | 14.16 | 33.181 | 6.19 | .94 | 10 | 14.13 | 33.19 | 6.20 | .92 | 24.79 | 317.6 | .034 |
| 18 | 13.74 | 33.256 | 6.23 | .76 | 20 | 13.36 | 33.29 | 6.22 | .81 | 25.02 | 296.1 | .065 |
| 28 | 11.68 | 33.414 | 6.05 | 1.16 | 30 | 11.41 | 33.44 | 5.92 | 1.25 | 25.51 | 249.3 | .092 |
| 46 | 10.00 | 33.613 | 4.69 | 1.89 | 50 | 9.78 | 33.64 | 4.49 | 1.96 | 25.96 | 207.4 | .138 |
| 95 | 8.57 | 33.868 | 3.15 | 2.09 | 75 | 8.82 | 33.80 | 3.53 | 2.01 | 26.23 | 181.5 | .186 |
| 142 | 8.13 | 33.967 | 2.56 | 2.21 | 100 | 8.50 | 33.88 | 3.05 | 2.10 | 26.35 | 170.9 | .230 |
| 194 | 7.72 | 33.991 | 2.50 | 2.37 | 150 | 8.06 | 33.97 | 2.54 | 2.23 | 26.48 | 158.7 | .313 |
| 290 | 7.20 | 34.074 | 1.77 | 2.57 | 200 | 7.69 | 34.00 | 2.46 | 2.38 | 26.56 | 152.4 | .391 |
| 387 | 6.46 | 34.126 | 1.16 | 2.91 | 250 | 7.41 | 34.04 | 2.12 | 2.49 | 26.63 | 146.2 | .465 |
| 484 | 5.89 | 34.190 | .68 | 3.11 | 300 | 7.12 | 34.08 | 1.70 | 2.61 | 26.70 | 140.0 | .537 |
| 581 | 5.55 | 34.201 | .55 | 3.04 | 400 | 6.37 | 34.14 | 1.08 | 2.95 | 26.85 | 127.4 | .670 |
| 773 | 4.57 | 34.306 | .29 | 3.25 | 500 | 5.83 | 34.19 | .65 | 3.10 | 26.96 | 116.8 | .792 |
| 965 | 3.95 | 34.386 | .31 | 3.26 | 600 | 5.45 | 34.21 | .52 | 3.05 | 27.02 | 112.5 | .907 |
| 1160 | 3.43 | 34.455 | .46 | 3.40 | 700 | 4.95 | 34.26 | .37 | 3.15 | 27.12 | 103.0 | 1.015 |
| | | | | | 800 | 4.47 | 34.32 | .29 | 3.25 | 27.22 | 93.8 | 1.113 |
| | | | | | 1000 | 3.85 | 34.40 | .33 | 3.28 | 27.35 | 82.3 | 1.289 |

BH 045 42 0.0 N 125 13.2 W DATE 15 SEP 63 0204 GCT WIRE - DRY 63.0 WET 60.0
WIND DIRECTION 25 VEL 03 KTS BAR 14 SWELL DIRECTION 30 H 05 T 10 CLOUD 09 AMT 09 WEATHER 03

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.18 | 32.995 | 6.13 | .61 | 0 | 15.18 | 33.00 | 6.14 | .62 | 24.42 | 353.0 | 0 |
| 10 | 14.15 | 33.024 | 6.25 | .65 | 10 | 14.15 | 33.03 | 6.26 | .65 | 24.66 | 330.2 | .034 |
| 20 | 12.45 | 33.214 | 6.13 | 1.03 | 20 | 12.45 | 33.22 | 6.14 | 1.04 | 25.15 | 284.0 | .065 |
| 31 | 11.59 | 33.443 | 5.76 | 1.24 | 30 | 11.64 | 33.42 | 5.80 | 1.23 | 25.46 | 254.5 | .092 |
| 51 | 10.32 | 33.570 | 5.10 | 1.28 | 50 | 10.38 | 33.57 | 5.14 | 1.28 | 25.80 | 222.7 | .139 |
| 77 | 9.13 | 33.726 | 3.82 | 2.21 | 75 | 9.20 | 33.72 | 3.91 | 2.14 | 26.11 | 193.5 | .192 |
| 108 | 8.53 | 33.835 | 3.41 | 2.01 | 100 | 8.63 | 33.81 | 3.45 | 2.13 | 26.27 | 178.1 | .238 |
| 159 | 7.96 | 33.939 | 2.98 | 1.67 | 150 | 8.04 | 33.93 | 3.04 | 1.69 | 26.45 | 161.9 | .323 |
| 216 | 7.23 | 33.994 | 2.50 | 2.47 | 200 | 7.43 | 33.98 | 2.64 | 2.21 | 26.58 | 149.8 | .401 |
| 318 | 6.64 | 34.083 | 1.61 | 2.62 | 250 | 6.99 | 34.03 | 2.18 | 2.59 | 26.68 | 141.1 | .474 |
| 424 | 5.89 | 34.075 | 1.24 | 3.09 | 300 | 6.72 | 34.07 | 1.75 | 2.59 | 26.76 | 135.1 | .543 |
| 529 | 5.41 | 34.131 | .86 | 2.58 | 400 | 6.05 | 34.08 | 1.30 | 3.01 | 26.84 | 127.5 | .674 |
| 634 | 4.97 | 34.199 | .50 | | 500 | 5.53 | 34.11 | .96 | 2.75 | 26.94 | 118.9 | .797 |
| 840 | 4.24 | 34.340 | .30 | 3.40 | 600 | 5.11 | 34.18 | .61 | 2.66 | 27.04 | 110.6 | .912 |
| 1038 | 3.56 | 34.443 | .44 | 3.36 | 700 | 4.73 | 34.25 | .38 | 2.88 | 27.14 | 101.5 | 1.018 |
| | | | | | 800 | 4.37 | 34.31 | .34 | 3.23 | 27.23 | 93.0 | 1.115 |
| | | | | | 1000 | 3.69 | 34.43 | .39 | 3.37 | 27.39 | 78.4 | 1.286 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH 035 42 0.4 N 124 59.6 W DATE 15 SEP 63 1838 GCT WIRE 01 DRY 63.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 10 KTS BAR 12 SWELL DIRECTION 30 H 10 T 09 CLOUD 04 AMT 05 WEATHER 01 | | | | | | | | | | | | |
| 0 | 14.90 | 33.069 | 6.16 | .69 | 0 | 14.90 | 33.06 | 6.17 | .70 | 24.53 | 342.5 | 0 |
| 10 | 13.82 | 33.110 | 6.11 | .65 | 10 | 13.82 | 33.12 | 6.11 | .65 | 24.79 | 317.4 | .033 |
| 20 | 12.62 | 33.180 | 6.14 | .73 | 20 | 12.63 | 33.18 | 6.15 | .74 | 25.09 | 289.6 | .063 |
| 30 | 11.16 | 33.305 | 5.56 | 1.26 | 30 | 11.16 | 33.31 | 5.57 | 1.26 | 25.46 | 254.6 | .091 |
| 50 | 9.81 | 33.525 | 4.74 | 1.66 | 50 | 9.81 | 33.53 | 4.74 | 1.67 | 25.86 | 216.4 | .138 |
| 76 | 8.99 | 33.724 | 3.92 | 2.03 | 75 | 9.01 | 33.72 | 3.94 | 2.02 | 26.14 | 190.4 | .188 |
| 108 | 8.50 | 33.821 | 3.54 | 2.00 | 100 | 8.59 | 33.81 | 3.60 | 2.03 | 26.27 | 178.0 | .235 |
| 160 | 7.96 | 33.933 | 3.05 | 2.12 | 150 | 8.06 | 33.91 | 3.14 | 2.09 | 26.44 | 162.9 | .320 |
| 217 | 7.25 | 34.016 | 2.44 | 2.36 | 200 | 7.45 | 33.99 | 2.63 | 2.28 | 26.59 | 149.3 | .398 |
| 319 | 6.69 | 34.111 | 1.38 | 2.73 | 250 | 7.02 | 34.06 | 2.05 | 2.51 | 26.70 | 139.5 | .470 |
| 425 | 6.17 | 34.115 | 1.14 | 2.69 | 300 | 6.76 | 34.10 | 1.55 | 2.68 | 26.77 | 133.6 | .538 |
| 531 | 5.48 | 34.165 | .68 | 3.12 | 400 | 6.30 | 34.11 | 1.17 | 2.70 | 26.84 | 128.0 | .669 |
| 636 | 4.98 | 34.233 | .40 | 3.12 | 500 | 5.68 | 34.15 | .82 | 2.99 | 26.95 | 118.2 | .792 |
| 842 | 4.32 | 34.347 | .29 | 3.25 | 600 | 5.13 | 34.21 | .48 | 3.12 | 27.06 | 108.5 | .905 |
| 1040 | 3.54 | 34.445 | .42 | 3.27 | 700 | 4.76 | 34.27 | .32 | 3.16 | 27.15 | 100.1 | 1.010 |
| | | | | | 800 | 4.44 | 34.33 | .31 | 3.22 | 27.23 | 93.0 | 1.106 |
| | | | | | 1000 | 3.71 | 34.43 | .38 | 3.27 | 27.39 | 78.6 | 1.278 |
| BH 025 42 0.0 N 124 46.3 W DATE 15 SEP 63 1611 GCT WIRE 03 DRY 62.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 08 KTS BAR 11 SWELL DIRECTION 30 H 08 T 10 CLOUD 09 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.95 | 32.755 | 6.14 | .50 | 0 | 14.95 | 32.76 | 6.15 | .51 | 24.28 | 365.8 | 0 |
| 10 | 12.80 | 32.795 | 6.33 | .74 | 10 | 12.80 | 32.80 | 6.33 | .75 | 24.75 | 321.1 | .034 |
| 20 | 11.70 | 32.859 | 6.14 | .70 | 20 | 11.70 | 32.86 | 6.15 | .71 | 25.01 | 296.7 | .065 |
| 31 | 10.68 | 33.154 | 5.60 | 1.05 | 30 | 10.76 | 33.12 | 5.65 | 1.01 | 25.38 | 261.5 | .093 |
| 51 | 10.17 | 33.563 | 4.79 | 1.25 | 50 | 10.18 | 33.55 | 4.82 | 1.25 | 25.81 | 220.9 | .141 |
| 77 | 9.32 | 33.674 | 4.17 | 1.50 | 75 | 9.38 | 33.67 | 4.21 | 1.48 | 26.04 | 199.4 | .194 |
| 104 | 8.79 | 33.785 | 3.45 | 1.86 | 100 | 8.85 | 33.77 | 3.56 | 1.81 | 26.20 | 184.6 | .242 |
| 155 | 8.47 | 33.970 | 2.42 | 2.03 | 150 | 8.49 | 33.96 | 2.50 | 2.03 | 26.41 | 166.2 | .330 |
| 210 | 7.94 | 34.038 | 2.13 | 2.17 | 200 | 8.04 | 34.03 | 2.15 | 2.15 | 26.53 | 154.9 | .410 |
| 315 | 7.00 | 34.059 | 1.88 | 1.92 | 250 | 7.57 | 34.05 | 2.03 | 2.06 | 26.62 | 147.3 | .485 |
| 420 | 6.17 | 34.089 | 1.29 | 2.53 | 300 | 7.13 | 34.06 | 1.91 | 1.95 | 26.68 | 141.8 | .558 |
| 519 | 5.65 | 34.163 | .77 | 2.38 | 400 | 6.31 | 34.08 | 1.41 | 2.41 | 26.81 | 130.7 | .694 |
| 621 | 5.23 | 34.191 | .59 | 2.62 | 500 | 5.74 | 34.15 | .86 | 2.42 | 26.94 | 118.8 | .818 |
| | | | | | 600 | 5.31 | 34.19 | .60 | 2.54 | 27.02 | 112.1 | .934 |
| BH 015 42 0.0 N 124 32.9 W DATE 15 SEP 63 1405 GCT WIRE 00 DRY 61.0 WET 59.5 | | | | | | | | | | | | |
| WIND DIRECTION - VEL KTS BAR 10 SWELL DIRECTION 30 H 05 T 09 CLOUD 09 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.52 | 32.794 | 5.86 | .46 | 0 | 15.52 | 32.80 | 5.86 | .46 | 24.19 | 374.8 | 0 |
| 10 | 14.94 | 32.829 | 6.10 | .33 | 10 | 14.94 | 32.83 | 6.10 | .33 | 24.34 | 360.4 | .037 |
| 20 | 10.36 | 32.918 | 5.62 | .93 | 20 | 10.36 | 32.92 | 5.63 | .93 | 25.30 | 269.6 | .068 |
| 31 | 9.88 | 33.255 | 5.02 | 1.43 | 30 | 9.92 | 33.22 | 5.07 | 1.40 | 25.60 | 240.6 | .094 |
| 51 | 10.08 | 33.540 | 4.79 | 1.35 | 50 | 10.06 | 33.53 | 4.79 | 1.37 | 25.82 | 220.2 | .140 |
| 76 | 9.20 | 33.707 | 3.80 | 1.69 | 75 | 9.24 | 33.70 | 3.84 | 1.67 | 26.09 | 195.1 | .192 |
| 102 | 8.95 | 33.854 | 3.10 | 1.86 | 100 | 8.97 | 33.84 | 3.14 | 1.85 | 26.24 | 180.9 | .239 |
| BH 5 42 0.4 N 124 59.6 W DATE 15 SEP 63 1120 GCT WIRE 14 DRY 63.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 10 KTS BAR 12 SWELL DIRECTION 30 H 8 T 10 CLOUD 4 AMT 5 WEATHER 01 | | | | | | | | | | | | |
| 0 | 14.17 | 33.325 | 7.25 | | 0 | 14.17 | 33.33 | 7.26 | | 24.89 | 308.3 | 0 |
| 10 | 14.08 | 33.351 | 7.24 | | 10 | 14.08 | 33.36 | 7.24 | | 24.93 | 304.8 | .031 |
| 20 | 11.85 | 33.641 | 5.48 | | 20 | 11.85 | 33.65 | 5.48 | | 25.59 | 241.7 | .058 |
| 30 | 10.58 | 33.714 | 4.21 | | 30 | 10.58 | 33.72 | 4.21 | | 25.88 | 214.6 | .081 |
| NH 005 44 39.1 N 124 10.5 W DATE 18 SEP 63 2301 GCT WIRE 02 DRY 62.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 09 KTS BAR 15 SWELL DIRECTION 34 H 04 T 05 CLOUD - AMT 02 WEATHER 00 | | | | | | | | | | | | |
| 0 | 15.07 | 32.424 | 6.67 | | 0 | 15.07 | 32.43 | 6.68 | | 24.00 | 392.5 | 0 |
| 10 | 13.73 | 32.675 | 6.92 | | 10 | 13.73 | 32.68 | 6.93 | | 24.48 | 347.6 | .037 |
| 20 | 8.67 | 33.099 | 3.49 | | 20 | 8.67 | 33.10 | 3.49 | | 25.71 | 230.1 | .066 |
| 30 | 8.45 | 33.444 | 2.97 | | 30 | 8.45 | 33.45 | 2.97 | | 26.02 | 201.4 | .087 |
| 40 | 8.26 | 33.663 | 2.42 | | 50 | 10.06 | 33.53 | | | 25.82 | 220.2 | .130 |
| 49 | 8.24 | 33.665 | 2.29 | | 75 | 9.24 | 33.70 | | | 26.09 | 195.1 | .181 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 015 44 39.1 N 124 24.8 W DATE 19 SEP 63 0120 GCT WIRE 09 DRY 62.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 14 KTS BAR 13 SWELL DIRECTION 35 H 04 T 05 CLOUD - AMT 00 WEATHER 00 | | | | | | | | | | | | |
| 0 | 15.13 | 32.438 | 7.01 | | 0 | 15.13 | 32.44 | 7.02 | | 24.00 | 392.7 | 0 |
| 10 | 11.21 | 32.956 | 4.79 | | 10 | 11.21 | 32.96 | 4.79 | | 25.18 | 280.8 | .034 |
| 20 | 10.05 | 33.329 | 3.90 | | 20 | 10.05 | 33.33 | 3.91 | | 25.67 | 234.2 | .059 |
| 30 | 8.26 | 33.451 | 2.77 | | 30 | 8.26 | 33.46 | 2.78 | | 26.05 | 198.2 | .081 |
| 40 | 8.15 | | 3.06 | | 50 | 8.08 | 33.67 | 3.02 | | 26.24 | 179.9 | .119 |
| 49 | 8.09 | 33.662 | 3.04 | | 75 | 7.85 | 33.82 | 1.55 | | 26.40 | 165.9 | .162 |
| 75 | 7.85 | 33.815 | 1.55 | | 100 | 8.97 | 33.84 | | | 26.24 | 180.9 | .205 |
| NH 025 44 39.2 N 124 39.7 W DATE 19 SEP 63 0557 GCT WIRE 26 DRY 63.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 22 KTS BAR 14 SWELL DIRECTION 35 H 06 T 06 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 16.44 | 31.333 | 5.89 | | 0 | 16.44 | 31.34 | 5.90 | | 22.86 | 501.3 | 0 |
| 9 | 15.80 | 31.923 | 6.19 | | 10 | 15.47 | 31.99 | 6.26 | | 23.58 | 432.9 | .047 |
| 18 | 12.60 | 32.447 | 6.63 | | 20 | 12.04 | 32.55 | 6.58 | | 24.71 | 325.9 | .085 |
| 27 | 10.90 | 32.567 | 6.27 | | 30 | 10.86 | 32.50 | 6.17 | | 24.88 | 309.3 | .116 |
| 10 | 16.44 | 31.235 | | | 50 | 9.41 | 32.77 | 5.38 | | 25.34 | 266.1 | .174 |
| 19 | 12.96 | 32.363 | | | 75 | 8.42 | 33.20 | 3.97 | | 25.83 | 219.7 | .235 |
| 45 | 9.76 | 32.686 | 5.62 | | 100 | 8.05 | 33.51 | 2.72 | | 26.13 | 191.9 | .286 |
| 70 | 8.55 | 33.132 | 4.30 | | 150 | 7.87 | 33.90 | 2.59 | | 26.45 | 161.5 | .374 |
| 95 | 8.09 | 33.457 | 2.81 | | 200 | 7.50 | 33.97 | 1.95 | | 26.57 | 151.6 | .453 |
| 144 | 7.90 | 33.868 | 2.64 | | 250 | | | | | -0.09 | 2730.7 | 1.173 |
| 197 | 7.52 | 33.976 | 1.99 | | 300 | | | | | -0.09 | 2727.9 | 2.538 |
| NH 035 44 39.0 N 124 52.9 W DATE 19 SEP 63 0823 GCT WIRE 03 DRY 63.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 16 KTS BAR 15 SWELL DIRECTION 35 H 10 T 06 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 18.00 | 31.657 | 5.65 | | 0 | 18.00 | 31.66 | 5.66 | | 22.75 | 512.4 | 0 |
| 10 | 18.00 | 31.644 | 5.56 | | 10 | 18.00 | 31.65 | 5.57 | | 22.74 | 513.7 | .051 |
| 20 | 16.17 | 31.893 | 6.16 | | 20 | 16.17 | 31.90 | 6.17 | | 23.35 | 455.0 | .100 |
| 30 | 12.74 | 32.447 | 6.43 | | 30 | 12.74 | 32.47 | 6.44 | | 24.51 | 344.5 | .140 |
| 50 | 10.64 | 32.563 | 6.52 | | 50 | 10.64 | 32.57 | 6.53 | | 24.97 | 301.0 | .204 |
| 77 | 9.30 | 33.017 | 4.76 | | 75 | 9.36 | 32.98 | 4.91 | | 25.51 | 250.5 | .273 |
| 104 | 8.66 | 33.397 | 4.01 | | 100 | 8.73 | 33.35 | 4.09 | | 25.89 | 214.1 | .331 |
| 155 | 7.91 | 33.854 | 2.82 | | 150 | 7.96 | 33.82 | 2.91 | | 26.38 | 168.3 | .427 |
| 209 | 7.39 | 33.953 | 2.53 | | 200 | 7.46 | 33.94 | 2.58 | | 26.54 | 153.6 | .507 |
| NH 045 44 39.0 N 125 7.0 W DATE 19 SEP 63 1049 GCT WIRE 03 DRY 63.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 16 KTS BAR 16 SWELL DIRECTION 35 H 10 T 07 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 17.79 | 31.512 | 5.44 | | 0 | 17.79 | 31.52 | 5.44 | | 22.69 | 518.2 | 0 |
| 10 | 17.79 | 31.499 | 5.61 | | 10 | 17.79 | 31.50 | 5.61 | | 22.68 | 519.4 | .052 |
| 20 | 16.86 | 31.715 | 5.87 | | 20 | 16.86 | 31.72 | 5.88 | | 23.06 | 483.0 | .102 |
| 31 | 12.22 | 32.483 | 6.41 | | 30 | 12.67 | 32.41 | 6.37 | | 24.48 | 347.4 | .144 |
| 50 | 10.31 | 32.573 | 6.15 | | 50 | 10.31 | 32.58 | 6.16 | | 25.04 | 294.9 | .208 |
| 75 | 9.14 | 32.985 | 4.93 | | 75 | 9.14 | 32.99 | 4.93 | | 25.55 | 246.4 | .275 |
| 100 | 8.55 | 33.451 | 3.80 | | 100 | 8.55 | 33.46 | 3.80 | | 26.01 | 203.4 | .332 |
| 149 | 8.12 | 33.885 | 2.94 | | 150 | 8.11 | 33.89 | 2.93 | | 26.41 | 165.6 | .424 |
| 199 | 7.60 | 33.974 | 2.36 | | 200 | 7.59 | 33.97 | 2.35 | | 26.55 | 152.7 | .503 |
| 300 | 6.87 | 34.023 | 1.85 | | 250 | 7.20 | 34.01 | 2.04 | | 26.64 | 145.5 | .578 |
| 401 | 6.14 | 34.063 | 1.43 | | 300 | 6.88 | 34.03 | 1.86 | | 26.70 | 140.5 | .649 |
| | | | | | 400 | 6.15 | 34.06 | 1.43 | | 26.82 | 129.9 | .784 |
| NH 065 44 39.1 N 125 35.9 W DATE 19 SEP 63 1513 GCT WIRE 04 DRY 62.3 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 18 KTS BAR 16 SWELL DIRECTION 00 H 06 T 06 CLOUD 4 AMT 02 WEATHER 03 | | | | | | | | | | | | |
| 0 | 17.53 | 31.530 | 5.72 | | 0 | 17.53 | 31.53 | 5.72 | | 22.76 | 511.0 | 0 |
| 10 | 17.52 | 31.518 | 5.51 | | 10 | 17.52 | 31.52 | 5.52 | | 22.76 | 511.9 | .051 |
| 20 | 11.23 | 32.473 | 6.65 | | 20 | 11.23 | 32.48 | 6.66 | | 24.80 | 317.0 | .093 |
| 31 | 10.29 | 32.467 | 6.36 | | 30 | 10.38 | 32.47 | 6.43 | | 24.94 | 303.7 | .124 |
| 50 | 9.33 | 32.909 | 5.05 | | 50 | 9.33 | 32.91 | 5.05 | | 25.46 | 254.5 | .179 |
| 100 | 8.22 | 33.806 | 3.11 | | 75 | 8.60 | 33.43 | 3.89 | | 25.98 | 205.9 | .237 |
| 150 | 7.78 | 33.973 | 2.08 | | 100 | 8.22 | 33.81 | 3.11 | | 26.33 | 172.3 | .284 |
| 199 | 7.46 | 34.011 | 1.93 | | 150 | 7.79 | 33.98 | 2.08 | | 26.53 | 154.4 | .366 |
| 297 | 6.81 | 34.045 | 1.79 | | 200 | 7.45 | 34.01 | 1.93 | | 26.60 | 148.0 | .441 |
| 503 | 5.70 | 34.116 | .96 | | 250 | 7.12 | 34.03 | 1.85 | | 26.67 | 142.6 | .514 |
| 706 | 4.81 | 34.218 | .48 | | 300 | 6.79 | 34.05 | 1.78 | | 26.72 | 138.0 | .584 |
| 810 | 4.43 | 34.291 | .37 | | 400 | 6.22 | 34.08 | 1.40 | | 26.82 | 129.6 | .718 |
| 1014 | 3.87 | 34.397 | .37 | | 500 | 5.71 | 34.11 | .97 | | 26.92 | 121.1 | .843 |
| 1220 | 3.19 | 34.464 | .50 | | 600 | 5.25 | 34.16 | .69 | | 27.01 | 113.6 | .961 |
| | | | | | 700 | 4.83 | 34.21 | .49 | | 27.10 | 105.1 | 1.070 |
| | | | | | 800 | 4.46 | 34.28 | .38 | | 27.19 | 96.3 | 1.170 |
| | | | | | 1000 | 3.91 | 34.39 | .37 | | 27.34 | 83.5 | 1.350 |
| | | | | | 1200 | 3.26 | 34.46 | .48 | | 27.46 | 72.1 | 1.506 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 085 44 39.1 N 126 3.0 W DATE 19 SEP 63 2027 GCT WIRE 15 DRY 64.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 10 KTS BAR 17 SWELL DIRECTION 34 H 08 T 08 CLOUD 2 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.71 | 31.606 | 5.78 | | 0 | 17.71 | 31.61 | 5.79 | | 22.78 | 509.5 | 0 |
| 10 | 17.53 | 31.594 | 5.78 | | 10 | 17.53 | 31.60 | 5.79 | | 22.81 | 506.6 | .051 |
| 19 | 14.79 | 32.195 | 6.54 | | 20 | 14.51 | 32.23 | 6.59 | | 23.97 | 396.2 | .096 |
| 30 | 12.04 | 32.411 | 6.72 | | 30 | 12.04 | 32.42 | 6.72 | | 24.60 | 335.9 | .133 |
| 49 | 9.72 | 32.667 | 5.42 | | 50 | 9.67 | 32.69 | 5.35 | | 25.23 | 276.2 | .194 |
| 74 | 8.96 | 33.223 | 4.22 | | 75 | 8.91 | 33.23 | 4.23 | | 25.78 | 224.8 | .256 |
| 101 | 7.67 | 33.395 | 4.69 | | 100 | 7.71 | 33.39 | 4.66 | | 26.08 | 196.1 | .309 |
| 152 | 7.63 | 33.866 | 3.20 | | 150 | 7.63 | 33.85 | 3.28 | | 26.45 | 161.8 | .398 |
| 205 | 6.91 | 33.957 | 2.62 | | 200 | 6.99 | 33.95 | 2.65 | | 26.62 | 146.3 | .475 |
| 305 | 6.26 | 34.048 | 1.50 | | 250 | 6.56 | 34.01 | 2.09 | | 26.72 | 137.1 | .546 |
| 502 | 5.22 | 34.157 | .67 | | 300 | 6.28 | 34.04 | 1.55 | | 26.79 | 131.3 | .613 |
| 601 | 4.55 | 34.174 | .53 | | 400 | 5.76 | 34.11 | .94 | | 26.91 | 121.2 | .740 |
| 703 | 4.36 | 34.272 | .38 | | 500 | 5.23 | 34.16 | .67 | | 27.01 | 111.9 | .856 |
| 809 | 4.09 | 34.319 | .35 | | 600 | 4.56 | 34.17 | .53 | | 27.10 | 104.2 | .964 |
| 1011 | 3.51 | 34.408 | .36 | | 700 | 4.36 | 34.27 | .38 | | 27.19 | 95.4 | 1.064 |
| | | | | | 800 | 4.11 | 34.32 | .35 | | 27.26 | 89.8 | 1.156 |
| | | | | | 1000 | 3.54 | 34.40 | .36 | | 27.38 | 78.4 | 1.324 |
| NH 105 44 39.1 N 126 31.3 W DATE 20 SEP 63 0143 GCT WIRE 10 DRY 64.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 10 KTS BAR 16 SWELL DIRECTION 29 H 08 T 10 CLOUD 4 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.36 | 31.633 | 5.68 | | 0 | 18.36 | 31.64 | 5.69 | | 22.64 | 522.5 | 0 |
| 10 | 18.26 | 31.659 | 5.62 | | 10 | 18.26 | 31.66 | 5.63 | | 22.69 | 518.6 | .052 |
| 20 | 18.22 | 31.650 | 5.66 | | 20 | 18.23 | 31.65 | 5.67 | | 22.69 | 518.6 | .104 |
| 30 | 15.99 | 32.119 | 6.24 | | 30 | 15.99 | 32.12 | 6.24 | | 23.57 | 434.9 | .152 |
| 50 | 11.55 | 32.583 | 6.75 | | 50 | 11.55 | 32.59 | 6.76 | | 24.83 | 315.0 | .227 |
| 75 | 9.79 | 32.662 | 5.77 | | 75 | 9.79 | 32.67 | 5.78 | | 25.19 | 280.4 | .301 |
| 102 | 8.88 | 33.321 | 4.26 | | 100 | 8.93 | 33.27 | 4.36 | | 25.80 | 222.9 | .364 |
| 153 | 7.68 | 33.729 | 3.80 | | 150 | 7.73 | 33.72 | 3.83 | | 26.34 | 172.5 | .463 |
| 207 | 7.27 | 33.938 | 2.76 | | 200 | 7.30 | 33.92 | 2.90 | | 26.55 | 152.6 | .544 |
| 306 | 6.19 | 33.977 | 2.10 | | 250 | 6.80 | 33.95 | 2.38 | | 26.65 | 144.1 | .618 |
| 408 | 5.49 | 34.036 | 1.34 | | 300 | 6.26 | 33.97 | 2.12 | | 26.74 | 136.3 | .688 |
| 509 | 4.98 | 34.114 | .78 | | 400 | 5.53 | 34.03 | 1.40 | | 26.87 | 124.5 | .819 |
| 613 | 4.51 | 34.180 | .50 | | 500 | 5.02 | 34.11 | .82 | | 26.99 | 113.1 | .937 |
| 819 | 3.98 | 34.331 | .29 | | 600 | 4.56 | 34.17 | .52 | | 27.10 | 104.4 | 1.046 |
| 1022 | 3.47 | 34.412 | .32 | | 700 | 4.25 | 34.25 | .37 | | 27.19 | 95.8 | 1.146 |
| | | | | | 800 | 4.02 | 34.32 | .29 | | 27.27 | 88.5 | 1.238 |
| | | | | | 1000 | 3.52 | 34.41 | .31 | | 27.39 | 77.9 | 1.404 |
| NH 125 44 39.1 N 126 58.7 W DATE 20 SEP 63 0633 GCT WIRE 3 DRY 63.5 WET 59.5 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 5 KTS BAR 16 SWELL DIRECTION 29 H 4 T 10 CLOUD 8 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.51 | 31.511 | 5.74 | | 0 | 18.51 | 31.52 | 5.74 | | 22.51 | 534.9 | 0 |
| 10 | 18.51 | 31.510 | 5.62 | | 10 | 18.51 | 31.51 | 5.63 | | 22.51 | 535.3 | .054 |
| 20 | 18.46 | 31.526 | 5.65 | | 20 | 18.46 | 31.53 | 5.66 | | 22.54 | 533.2 | .107 |
| 31 | 18.32 | 31.658 | 5.69 | | 30 | 18.39 | 31.64 | 5.68 | | 22.64 | 523.8 | .160 |
| 51 | 11.80 | 32.584 | 6.77 | | 50 | 12.17 | 32.54 | 6.72 | | 24.67 | 329.7 | .245 |
| 77 | 10.06 | 32.688 | 5.80 | | 75 | 10.19 | 32.68 | 5.92 | | 25.14 | 285.8 | .322 |
| 105 | 8.15 | 33.289 | 4.67 | | 100 | 8.45 | 33.17 | 4.87 | | 25.80 | 223.0 | .386 |
| 155 | 7.73 | 33.822 | 3.23 | | 150 | 7.77 | 33.79 | 3.35 | | 26.39 | 168.0 | .483 |
| 210 | 6.68 | 33.994 | 2.06 | | 200 | 6.88 | 33.98 | 2.23 | | 26.66 | 142.3 | .561 |
| 310 | 5.99 | 34.013 | 1.79 | | 250 | 6.32 | 34.00 | 1.82 | | 26.75 | 134.4 | .630 |
| 413 | 5.06 | 34.030 | 1.22 | | 300 | 6.03 | 34.01 | 1.82 | | 26.79 | 130.6 | .696 |
| 515 | 4.71 | 34.142 | .66 | | 400 | 5.17 | 34.03 | 1.30 | | 26.91 | 120.4 | .822 |
| 619 | 4.42 | 34.230 | .44 | | 500 | 4.74 | 34.12 | .73 | | 27.04 | 108.6 | .936 |
| 824 | 3.78 | 34.331 | .33 | | 600 | 4.47 | 34.22 | .46 | | 27.14 | 100.0 | 1.040 |
| 1028 | 3.41 | 34.418 | .41 | | 700 | 4.16 | 34.28 | .36 | | 27.22 | 92.5 | 1.137 |
| | | | | | 800 | 3.85 | 34.32 | .34 | | 27.29 | 86.3 | 1.226 |
| | | | | | 1000 | 3.45 | 34.41 | .39 | | 27.40 | 77.0 | 1.389 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 145 44 39.0 N 127 27.6 W DATE 20 SEP 63 1106 GCT WIRE 02 DRY 63.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 03 KTS BAR 14 SWELL DIRECTION 29 H 02 T 09 CLOUD - AMT 0 WEATHER 00 | | | | | | | | | | | | |
| 0 | 18.40 | 31.777 | 5.88 | | 0 | 18.40 | 31.78 | 5.89 | | 22.74 | 513.0 | 0 |
| 10 | 18.36 | 31.777 | 5.58 | | 10 | 18.36 | 31.78 | 5.58 | | 22.75 | 512.3 | .051 |
| 20 | 18.33 | 31.812 | 5.63 | | 20 | 18.33 | 31.82 | 5.64 | | 22.78 | 509.3 | .102 |
| 31 | 17.79 | 31.850 | 5.72 | | 30 | 17.91 | 31.84 | 5.70 | | 22.91 | 497.9 | .153 |
| 50 | 10.58 | 32.544 | 6.84 | | 50 | 10.58 | 32.55 | 6.84 | | 24.97 | 301.4 | .233 |
| 76 | 9.51 | 32.578 | 6.01 | | 75 | 9.55 | 32.58 | 6.07 | | 25.16 | 283.2 | .306 |
| 104 | 8.03 | 33.185 | 4.87 | | 100 | 8.22 | 33.09 | 5.04 | | 25.77 | 226.0 | .369 |
| 155 | 8.04 | 33.821 | 2.82 | | 150 | 8.04 | 33.78 | 2.97 | | 26.34 | 172.4 | .469 |
| 210 | 7.10 | 33.913 | 2.91 | | 200 | 7.30 | 33.90 | 2.89 | | 26.53 | 154.5 | .551 |
| 311 | 5.72 | 33.944 | 2.29 | | 250 | 6.48 | 33.93 | 2.75 | | 26.68 | 141.5 | .625 |
| 414 | 5.12 | 34.021 | 1.26 | | 300 | 5.84 | 33.94 | 2.39 | | 26.77 | 133.3 | .693 |
| 516 | 4.73 | 34.101 | .76 | | 400 | 5.17 | 34.01 | 1.40 | | 26.90 | 121.7 | .821 |
| 621 | 4.48 | | .48 | | 500 | 4.78 | 34.09 | .81 | | 27.00 | 111.6 | .937 |
| 826 | 3.99 | 34.326 | .28 | | 600 | 4.52 | 34.16 | .52 | | 27.09 | 104.7 | 1.045 |
| 1029 | 3.44 | 34.494 | .33 | | 700 | 4.30 | 34.23 | .36 | | 27.17 | 97.3 | 1.146 |
| | | | | | 800 | 4.05 | 34.31 | .29 | | 27.26 | 89.7 | 1.240 |
| | | | | | 1000 | 3.52 | 34.47 | .31 | | 27.44 | 73.3 | 1.403 |
| NH 165 44 39.1 N 127 54.8 W DATE 20 SEP 63 1516 GCT WIRE - DRY 64.5 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 10 KTS BAR 14 SWELL DIRECTION 29 H 03 T 10 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.32 | 31.780 | 5.68 | | 0 | 18.32 | 31.78 | 5.69 | | 22.76 | 510.9 | 0 |
| 10 | 18.30 | 31.773 | 5.51 | | 10 | 18.30 | 31.78 | 5.52 | | 22.76 | 511.2 | .051 |
| 20 | 17.97 | | 5.69 | | 20 | 17.98 | 31.84 | 5.69 | | 22.89 | 499.2 | .102 |
| 30 | 15.35 | 31.987 | 6.54 | | 30 | 15.35 | 31.99 | 6.55 | | 23.61 | 431.0 | .148 |
| 49 | 10.89 | 32.487 | 7.18 | | 50 | 10.77 | 32.51 | 7.15 | | 24.90 | 307.6 | .222 |
| 98 | 8.58 | 33.182 | 4.68 | | 75 | 8.73 | 32.92 | 6.16 | | 25.56 | 245.4 | .291 |
| 149 | 8.06 | 33.738 | 3.19 | | 100 | 8.54 | 33.21 | 4.60 | | 25.81 | 221.6 | .349 |
| 199 | 7.36 | 33.938 | 2.46 | | 150 | 8.05 | 33.74 | 3.17 | | 26.31 | 175.4 | .449 |
| 297 | 6.30 | 33.990 | 1.91 | | 200 | 7.35 | 33.94 | 2.45 | | 26.56 | 151.9 | .530 |
| 399 | 5.44 | 34.032 | 1.28 | | 250 | 6.77 | 33.97 | 2.10 | | 26.66 | 142.9 | .604 |
| 501 | 5.00 | 34.103 | 1.00 | | 300 | 6.27 | 33.99 | 1.89 | | 26.75 | 135.2 | .674 |
| 703 | 4.15 | 34.232 | .53 | | 400 | 5.43 | 34.03 | 1.28 | | 26.88 | 123.1 | .803 |
| 807 | 3.94 | 34.292 | .44 | | 500 | 5.00 | 34.10 | 1.00 | | 26.99 | 113.2 | .921 |
| 1011 | 3.53 | 34.395 | .46 | | 600 | 4.55 | 34.17 | .74 | | 27.09 | 104.4 | 1.030 |
| 1217 | 3.08 | 34.451 | .60 | | 700 | 4.16 | 34.23 | .54 | | 27.18 | 96.0 | 1.130 |
| | | | | | 800 | 3.95 | 34.29 | .44 | | 27.25 | 90.0 | 1.223 |
| | | | | | 1000 | 3.55 | 34.39 | .45 | | 27.37 | 79.5 | 1.392 |
| | | | | | 1200 | 3.12 | 34.45 | .58 | | 27.46 | 71.2 | 1.543 |
| ANH173 45 42.6 N 128 2.0 W DATE 21 SEP 63 0223 GCT WIRE 04 DRY 66.0 WET 63.5 | | | | | | | | | | | | |
| WIND DIRECTION 18 VEL 14 KTS BAR 10 SWELL DIRECTION 24 H 06 T 06 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.04 | 32.428 | 5.56 | | 0 | 18.04 | 32.43 | 5.57 | | 23.32 | 457.2 | 0 |
| 10 | 18.04 | 32.423 | 5.47 | | 10 | 18.04 | 32.43 | 5.47 | | 23.32 | 457.8 | .046 |
| 20 | 17.97 | 32.455 | 5.56 | | 20 | 17.98 | 32.46 | 5.57 | | 23.36 | 454.2 | .091 |
| 31 | 15.40 | 32.536 | 6.11 | | 30 | 15.69 | 32.53 | 6.05 | | 23.95 | 398.8 | .134 |
| 50 | 10.84 | 32.542 | 7.12 | | 50 | 10.84 | 32.55 | 7.13 | | 24.92 | 305.9 | .204 |
| 76 | 9.89 | 32.571 | 6.44 | | 75 | 9.93 | 32.57 | 6.49 | | 25.09 | 289.7 | .279 |
| 103 | 9.12 | 32.641 | 5.97 | | 100 | 9.20 | 32.63 | 6.03 | | 25.26 | 274.6 | .349 |
| 154 | 7.93 | 33.566 | 3.95 | | 150 | 8.00 | 33.49 | 4.12 | | 26.11 | 194.0 | .467 |
| 209 | 7.56 | 33.898 | 2.99 | | 200 | 7.59 | 33.87 | 3.09 | | 26.48 | 160.2 | .555 |
| 310 | 6.40 | 33.984 | 1.98 | | 250 | 7.11 | 33.98 | 2.49 | | 26.62 | 146.6 | .632 |
| 414 | 5.47 | 34.008 | 1.51 | | 300 | 6.52 | 33.98 | 2.05 | | 26.70 | 139.7 | .703 |
| 515 | 4.98 | 34.103 | .78 | | 400 | 5.57 | 34.00 | 1.56 | | 26.85 | 126.9 | .837 |
| 620 | 4.61 | 34.179 | .55 | | 500 | 5.04 | 34.09 | .88 | | 26.97 | 114.7 | .957 |
| 826 | 4.01 | 34.309 | .27 | | 600 | 4.67 | 34.17 | .57 | | 27.08 | 106.1 | 1.068 |
| 1030 | 3.44 | 34.390 | .33 | | 700 | 4.37 | 34.23 | .41 | | 27.17 | 98.1 | 1.170 |
| | | | | | 800 | 4.08 | 34.29 | .29 | | 27.24 | 91.0 | 1.264 |
| | | | | | 1000 | 3.52 | 34.38 | .30 | | 27.37 | 79.8 | 1.435 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 45 11.0 N 127 58.0 W DATE 20 SEP 63 2129 GCT WIRE 09 DRY 66.0 WET 64.0 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 09 KTS BAR 12 SWELL DIRECTION 24 H 05 T - CLOUD 4 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 18.18 | 32.297 | 5.62 | | 0 | 18.19 | 32.30 | 5.63 | | 23.19 | 470.0 | 0 |
| 10 | 18.14 | 32.293 | 5.92 | | 10 | 18.15 | 32.30 | 5.93 | | 23.20 | 469.6 | .047 |
| 20 | 18.06 | 32.301 | 5.60 | | 20 | 18.06 | 32.31 | 5.60 | | 23.22 | 467.5 | .094 |
| 30 | 14.83 | 32.569 | 6.34 | | 30 | 14.83 | 32.57 | 6.34 | | 24.17 | 377.7 | .136 |
| 50 | 9.95 | 32.530 | 6.61 | | 50 | 9.95 | 32.53 | 6.61 | | 25.06 | 292.3 | .203 |
| 75 | 9.07 | 32.717 | 5.62 | | 75 | 9.07 | 32.72 | 5.63 | | 25.35 | 265.2 | .273 |
| 102 | 8.28 | 33.284 | 4.41 | | 100 | 8.33 | 33.24 | 4.49 | | 25.87 | 216.2 | .333 |
| 153 | 7.52 | 33.698 | 3.68 | | 150 | 7.54 | 33.69 | 3.70 | | 26.34 | 172.5 | .430 |
| 207 | 7.38 | 33.913 | 2.52 | | 200 | 7.39 | 33.90 | 2.66 | | 26.52 | 155.7 | .512 |
| 307 | 6.42 | 33.983 | 2.02 | | 250 | 7.01 | 33.97 | 2.19 | | 26.63 | 145.8 | .587 |
| 409 | 5.70 | 34.045 | 1.25 | | 300 | 6.50 | 33.98 | 2.02 | | 26.71 | 139.1 | .659 |
| 511 | 4.88 | 34.061 | 1.01 | | 400 | 5.76 | 34.04 | 1.31 | | 26.85 | 126.6 | .791 |
| 614 | 4.37 | 34.120 | .64 | | 500 | 4.96 | 34.06 | 1.03 | | 26.96 | 115.9 | .913 |
| 819 | 4.11 | 34.304 | .30 | | 600 | 4.42 | 34.11 | .69 | | 27.06 | 107.3 | 1.024 |
| 1023 | 3.59 | 34.403 | .33 | | 700 | 4.22 | 34.20 | .44 | | 27.15 | 99.1 | 1.127 |
| | | | | | 800 | 4.12 | 34.29 | .31 | | 27.23 | 92.0 | 1.223 |
| | | | | | 1000 | 3.66 | 34.40 | .31 | | 27.37 | 80.3 | 1.395 |
| AH 165 46 14.5 N 128 4.0 W DATE 21 SEP 63 0735 GCT WIRE 07 DRY 62.0 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 06 KTS BAR 11 SWELL DIRECTION 24 H 05 T 08 CLOUD - AMT 9 WEATHER 21 | | | | | | | | | | | | |
| 0 | 18.09 | 32.371 | 5.65 | | 0 | 18.09 | 32.38 | 5.66 | | 23.27 | 462.5 | 0 |
| 10 | 18.08 | 32.361 | 5.56 | | 10 | 18.08 | 32.37 | 5.57 | | 23.26 | 463.3 | .046 |
| 20 | 17.89 | 32.404 | 5.62 | | 20 | 17.90 | 32.41 | 5.63 | | 23.34 | 456.0 | .092 |
| 30 | 15.67 | 32.461 | 6.22 | | 30 | 15.67 | 32.47 | 6.22 | | 23.90 | 403.1 | .135 |
| 49 | 10.76 | 32.553 | 6.98 | | 50 | 10.63 | 32.56 | 6.98 | | 24.97 | 301.6 | .206 |
| 98 | 8.55 | 32.899 | 5.54 | | 75 | 9.59 | 32.70 | 6.56 | | 25.25 | 274.5 | .278 |
| 148 | 8.18 | 33.664 | 3.43 | | 100 | 8.52 | 32.93 | 5.45 | | 25.60 | 241.9 | .342 |
| 198 | 7.53 | 33.923 | 2.64 | | 150 | 8.16 | 33.68 | 3.38 | | 26.24 | 181.7 | .448 |
| 297 | 6.32 | 34.000 | 1.89 | | 200 | 7.50 | 33.93 | 2.62 | | 26.53 | 154.9 | .532 |
| 399 | 5.57 | 34.045 | 1.26 | | 250 | 6.86 | 33.96 | 2.17 | | 26.65 | 144.2 | .607 |
| 501 | 5.05 | 34.111 | .89 | | 300 | 6.29 | 34.00 | 1.87 | | 26.75 | 134.7 | .677 |
| 703 | 4.29 | 34.232 | .37 | | 400 | 5.56 | 34.05 | 1.26 | | 26.88 | 123.7 | .806 |
| 806 | 4.09 | 34.320 | .27 | | 500 | 5.05 | 34.11 | .89 | | 26.99 | 113.2 | .924 |
| 1010 | 3.52 | | .29 | | 600 | 4.62 | 34.17 | .59 | | 27.08 | 105.5 | 1.034 |
| 1215 | 3.04 | 34.454 | .39 | | 700 | 4.30 | 34.23 | .38 | | 27.17 | 97.6 | 1.135 |
| | | | | | 800 | 4.10 | 34.31 | .27 | | 27.26 | 89.7 | 1.229 |
| | | | | | 1000 | 3.55 | 34.43 | .28 | | 27.40 | 76.7 | 1.395 |
| | | | | | 1200 | 3.07 | 34.45 | .38 | | 27.47 | 70.6 | 1.542 |
| AH 145 46 14.5 N 127 35.0 W DATE 21 SEP 63 1303 GCT WIRE - DRY 62.5 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 03 KTS BAR 10 SWELL DIRECTION 16 H 02 T 09 CLOUD - AMT 9 WEATHER 21 | | | | | | | | | | | | |
| 0 | 17.97 | 32.126 | 5.58 | | 0 | 17.98 | 32.13 | 5.58 | | 23.11 | 477.6 | 0 |
| 10 | 17.98 | 32.144 | 5.54 | | 10 | 17.98 | 32.15 | 5.55 | | 23.12 | 476.8 | .048 |
| 20 | 17.95 | 32.135 | 5.61 | | 20 | 17.96 | 32.14 | 5.61 | | 23.12 | 477.0 | .095 |
| 31 | 15.32 | 32.520 | 6.21 | | 30 | 15.62 | 32.48 | 6.15 | | 23.92 | 400.7 | .139 |
| 51 | 10.21 | 32.542 | 7.04 | | 50 | 10.42 | 32.54 | 7.02 | | 24.99 | 299.3 | .209 |
| 76 | 9.52 | 32.548 | 6.36 | | 75 | 9.55 | 32.55 | 6.41 | | 25.14 | 285.5 | .282 |
| 103 | 8.50 | 32.870 | 5.52 | | 100 | 8.61 | 32.82 | 5.61 | | 25.50 | 251.1 | .349 |
| 154 | 7.18 | 33.634 | 4.41 | | 150 | 7.25 | 33.58 | 4.48 | | 26.29 | 176.6 | .456 |
| 209 | 6.92 | 33.879 | 3.83 | | 200 | 6.93 | 33.86 | 3.90 | | 26.56 | 151.8 | .538 |
| 310 | 5.76 | 33.928 | 2.72 | | 250 | 6.48 | 33.90 | 3.38 | | 26.65 | 144.0 | .612 |
| 412 | 5.02 | 33.998 | 1.60 | | 300 | 5.89 | 33.92 | 2.83 | | 26.74 | 135.4 | .682 |
| 514 | 4.74 | 34.092 | 1.01 | | 400 | 5.08 | 33.99 | 1.72 | | 26.89 | 122.2 | .811 |
| 618 | 4.30 | 34.165 | .60 | | 500 | 4.77 | 34.08 | 1.07 | | 27.00 | 112.2 | .928 |
| 824 | 3.82 | 34.323 | .41 | | 600 | 4.38 | 34.15 | .66 | | 27.10 | 103.6 | 1.036 |
| 1029 | 3.30 | 34.396 | .32 | | 700 | 4.08 | 34.23 | .47 | | 27.19 | 94.9 | 1.135 |
| | | | | | 800 | 3.86 | 34.31 | .43 | | 27.28 | 87.6 | 1.226 |
| | | | | | 1000 | 3.38 | 34.39 | .33 | | 27.39 | 77.4 | 1.391 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| AH 125 46 14.4 N 127 6.0 W DATE 21 SEP 63 1714 GCT WIRE 07 DRY 63.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 05 VEL 14 KTS BAR 09 SWELL DIRECTION 28 H 05 T 09 CLOUD 7 AMT 9 WEATHER 50 | | | | | | | | | | | | |
| 0 | 18.05 | 31.815 | 5.62 | | 0 | 18.05 | 31.82 | 5.63 | | 22.86 | 502.1 | 0 |
| 10 | 18.07 | 31.824 | 5.59 | | 10 | 18.07 | 31.83 | 5.59 | | 22.86 | 502.2 | .050 |
| 20 | 17.95 | 31.837 | 5.62 | | 20 | 17.96 | 31.84 | 5.63 | | 22.90 | 498.7 | .100 |
| 30 | 14.67 | 32.338 | 6.43 | | 30 | 14.67 | 32.34 | 6.44 | | 24.02 | 391.4 | .145 |
| 50 | 10.22 | 32.536 | 7.16 | | 50 | 10.22 | 32.54 | 7.17 | | 25.02 | 296.1 | .213 |
| 77 | 9.22 | 32.536 | 6.35 | | 75 | 9.29 | 32.54 | 6.45 | | 25.17 | 282.3 | .286 |
| 105 | 7.84 | 33.069 | 5.31 | | 100 | 8.07 | 32.96 | 5.50 | | 25.69 | 233.4 | .350 |
| 154 | 7.56 | 33.769 | 3.50 | | 150 | 7.58 | 33.73 | 3.62 | | 26.36 | 170.2 | .451 |
| 210 | 7.16 | 33.933 | 2.91 | | 200 | 7.24 | 33.93 | 2.95 | | 26.57 | 151.0 | .531 |
| 310 | 5.85 | 33.955 | 2.44 | | 250 | 6.65 | 33.94 | 2.71 | | 26.66 | 143.1 | .605 |
| 410 | 5.01 | 34.012 | 1.47 | | 300 | 5.99 | 33.95 | 2.48 | | 26.75 | 134.5 | .674 |
| 512 | 4.59 | 34.086 | .91 | | 400 | 5.07 | 34.01 | 1.57 | | 26.91 | 120.8 | .802 |
| 615 | 4.23 | 34.167 | .56 | | 500 | 4.63 | 34.08 | .96 | | 27.01 | 110.7 | .918 |
| 813 | 3.93 | 34.309 | .44 | | 600 | 4.28 | 34.16 | .60 | | 27.11 | 102.3 | 1.024 |
| 1017 | 3.34 | 34.384 | .37 | | 700 | 4.09 | 34.23 | .46 | | 27.19 | 94.9 | 1.123 |
| | | | | | 800 | 3.95 | 34.30 | .45 | | 27.26 | 88.9 | 1.214 |
| | | | | | 1000 | 3.40 | 34.38 | .37 | | 27.38 | 78.4 | 1.382 |
| AH 105 46 14.5 N 126 37.9 W DATE 21 SEP 63 2056 GCT WIRE 10 DRY 66.0 WET 63.5 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 06 KTS BAR 08 SWELL DIRECTION 15 H 04 T 06 CLOUD - AMT 9 WEATHER 18 | | | | | | | | | | | | |
| 0 | 18.36 | 31.613 | 5.59 | | 0 | 18.36 | 31.62 | 5.59 | | 22.63 | 524.0 | 0 |
| 9 | 18.34 | 31.618 | 5.59 | | 10 | 18.27 | 31.64 | 5.64 | | 22.67 | 520.4 | .052 |
| 19 | 16.81 | 31.912 | 6.29 | | 20 | 16.46 | 31.94 | 6.38 | | 23.32 | 457.8 | .101 |
| 29 | 13.15 | 32.211 | 6.97 | | 30 | 12.89 | 32.23 | 6.94 | | 24.30 | 365.1 | .142 |
| 48 | 9.85 | 32.443 | 5.75 | | 50 | 9.75 | 32.48 | 5.66 | | 25.05 | 293.2 | .208 |
| 73 | 9.36 | 32.983 | 5.01 | | 75 | 9.24 | 32.93 | 4.98 | | 25.49 | 251.9 | .276 |
| 99 | 7.77 | 33.267 | 4.73 | | 100 | 7.74 | 33.28 | 4.72 | | 25.99 | 205.0 | .333 |
| 148 | 7.23 | 33.679 | 4.19 | | 150 | 7.21 | 33.69 | 4.17 | | 26.39 | 167.8 | .426 |
| 201 | 6.78 | 33.900 | 3.60 | | 200 | 6.79 | 33.90 | 3.61 | | 26.61 | 147.5 | .505 |
| 299 | 5.51 | 33.927 | 2.55 | | 250 | 6.15 | 33.91 | 3.07 | | 26.70 | 138.7 | .577 |
| 395 | 4.79 | 33.983 | 1.58 | | 300 | 5.50 | 33.93 | 2.54 | | 26.79 | 130.4 | .644 |
| 493 | 4.53 | 34.102 | .73 | | 400 | 4.77 | 33.99 | 1.83 | | 26.93 | 118.5 | .768 |
| 595 | 4.21 | 34.172 | .48 | | 500 | 4.51 | 34.11 | .70 | | 27.05 | 107.0 | .881 |
| 792 | 3.76 | 34.296 | .30 | | 600 | 4.20 | 34.18 | .47 | | 27.14 | 99.9 | .985 |
| 995 | 3.41 | 34.400 | .27 | | 700 | 3.95 | 34.24 | .35 | | 27.21 | 92.8 | 1.081 |
| | | | | | 800 | 3.74 | 34.30 | .30 | | 27.28 | 86.7 | 1.171 |
| | | | | | 1000 | 3.40 | 34.40 | .27 | | 27.40 | 76.8 | 1.334 |
| AH 085 46 14.5 N 126 9.1 W DATE 22 SEP 63 0047 GCT WIRE - DRY 65.0 WET 62.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 08 KTS BAR 07 SWELL DIRECTION 15 H 06 T 06 CLOUD - AMT 9 WEATHER 01 | | | | | | | | | | | | |
| 0 | 18.34 | 31.513 | 5.55 | | 0 | 18.34 | 31.52 | 5.56 | | 22.55 | 530.8 | 0 |
| 10 | 18.33 | 31.510 | 5.58 | | 10 | 18.33 | 31.51 | 5.58 | | 22.55 | 531.1 | .053 |
| 20 | 17.49 | 31.881 | 5.74 | | 20 | 17.50 | 31.89 | 5.74 | | 23.04 | 485.0 | .104 |
| 31 | 12.94 | 32.311 | 6.90 | | 30 | 13.39 | 32.28 | 6.79 | | 24.23 | 371.0 | .147 |
| 51 | 9.91 | 32.513 | 6.90 | | 50 | 9.96 | 32.50 | 6.90 | | 25.04 | 294.7 | .213 |
| 77 | 9.11 | 32.579 | 5.91 | | 75 | 9.17 | 32.57 | 6.02 | | 25.21 | 278.2 | .285 |
| 104 | 8.59 | 33.364 | 4.10 | | 100 | 8.65 | 33.24 | 4.37 | | 25.82 | 221.2 | .347 |
| 155 | 7.79 | 33.828 | 2.97 | | 150 | 7.86 | 33.82 | 3.01 | | 26.39 | 167.2 | .444 |
| 209 | 7.12 | 33.974 | 2.13 | | 200 | 7.22 | 33.97 | 2.24 | | 26.60 | 148.3 | .523 |
| 308 | 6.13 | 34.017 | 1.79 | | 250 | 6.66 | 34.01 | 1.92 | | 26.71 | 138.3 | .595 |
| 410 | 5.67 | 34.102 | 1.05 | | 300 | 6.19 | 34.01 | 1.80 | | 26.78 | 132.6 | .663 |
| 510 | 5.10 | 34.174 | .62 | | 400 | 5.71 | 34.09 | 1.12 | | 26.90 | 122.0 | .790 |
| 616 | 4.74 | 34.240 | .59 | | 500 | 5.15 | 34.17 | .65 | | 27.02 | 110.2 | .906 |
| 815 | 3.87 | 34.303 | .46 | | 600 | 4.79 | 34.23 | .59 | | 27.12 | 102.6 | 1.012 |
| 1018 | 3.44 | 34.402 | .44 | | 700 | 4.36 | 34.27 | .53 | | 27.19 | 95.4 | 1.111 |
| | | | | | 800 | 3.93 | 34.30 | .47 | | 27.26 | 88.9 | 1.203 |
| | | | | | 1000 | 3.46 | 34.39 | .44 | | 27.38 | 78.3 | 1.370 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 065 46 14.4 N 125 39.1 W DATE 22 SEP 63 0549 GCT WIRE 08 DRY 63.0 WET 61.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 08 KTS BAR 05 SWELL DIRECTION 17 H 04 T 05 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.85 | 31.889 | 5.60 | | 0 | 17.85 | 31.89 | 5.60 | | 22.96 | 492.1 | 0 |
| 10 | 17.84 | 31.889 | 5.58 | | 10 | 17.84 | 31.89 | 5.58 | | 22.96 | 492.1 | .049 |
| 20 | 17.40 | 31.968 | 5.70 | | 20 | 17.40 | 31.97 | 5.70 | | 23.13 | 476.6 | .098 |
| 31 | 12.85 | 32.284 | 6.79 | | 30 | 13.31 | 32.25 | 6.69 | | 24.23 | 371.1 | .140 |
| 50 | 10.02 | 32.507 | 6.62 | | 50 | 10.02 | 32.51 | 6.63 | | 25.03 | 295.1 | .207 |
| 100 | 8.67 | 33.149 | 4.66 | | 75 | 8.74 | 32.82 | 5.76 | | 25.48 | 252.8 | .275 |
| 149 | 8.17 | 33.788 | 2.99 | | 100 | 8.67 | 33.15 | 4.66 | | 25.75 | 227.6 | .335 |
| 197 | 7.51 | 33.939 | 2.46 | | 150 | 8.16 | 33.79 | 2.97 | | 26.33 | 173.3 | .435 |
| 296 | 6.40 | 34.013 | 1.85 | | 200 | 7.47 | 33.94 | 2.44 | | 26.55 | 153.3 | .517 |
| 396 | 5.78 | 34.059 | 1.29 | | 250 | 6.86 | 34.00 | 2.09 | | 26.68 | 141.6 | .591 |
| 498 | 5.14 | 34.110 | .86 | | 300 | 6.37 | 34.02 | 1.83 | | 26.75 | 134.7 | .660 |
| 697 | 4.45 | 34.258 | | | 400 | 5.75 | 34.06 | 1.27 | | 26.87 | 125.0 | .789 |
| 797 | 4.15 | 34.303 | .30 | | 500 | 5.13 | 34.11 | .85 | | 26.98 | 114.1 | .909 |
| 995 | 3.69 | 34.389 | .33 | | 600 | 4.73 | 34.19 | .57 | | 27.09 | 105.3 | 1.019 |
| 1193 | 3.25 | 34.454 | .42 | | 700 | 4.44 | 34.26 | .38 | | 27.18 | 97.1 | 1.120 |
| | | | | | 800 | 4.14 | 34.30 | .30 | | 27.25 | 91.0 | 1.214 |
| | | | | | 1000 | 3.68 | 34.39 | .33 | | 27.36 | 80.9 | 1.385 |
| | | | | | 1200 | 3.23 | 34.46 | .42 | | 27.46 | 72.0 | 1.538 |
| AH 045 46 14.5 N 125 11.2 W DATE 22 SEP 63 1222 GCT WIRE 13 DRY 62.0 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 04 KTS BAR 04 SWELL DIRECTION 15 H 04 T 06 CLOUD - AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.21 | 31.851 | 5.84 | | 0 | 17.21 | 31.86 | 5.84 | | 23.08 | 480.4 | 0 |
| 10 | 17.20 | 31.846 | 5.84 | | 10 | 17.21 | 31.85 | 5.84 | | 23.08 | 480.8 | .048 |
| 20 | 15.06 | 31.769 | 6.53 | | 20 | 15.06 | 31.76 | 6.54 | | 23.49 | 441.5 | .094 |
| 30 | 12.23 | 32.415 | 6.97 | | 30 | 12.23 | 32.42 | 6.97 | | 24.57 | 339.0 | .133 |
| 49 | 9.62 | 32.542 | 6.41 | | 50 | 9.55 | 32.55 | 6.37 | | 25.14 | 285.0 | .196 |
| 75 | 8.55 | 32.767 | 5.38 | | 75 | 8.55 | 32.77 | 5.39 | | 25.47 | 253.8 | .263 |
| 102 | 7.83 | 33.295 | 4.58 | | 100 | 7.87 | 33.25 | 4.64 | | 25.95 | 208.6 | .321 |
| 150 | 7.91 | 33.866 | 2.68 | | 150 | 7.92 | 33.87 | 2.68 | | 26.43 | 164.1 | .414 |
| 205 | 7.07 | 33.969 | 2.06 | | 200 | 7.16 | 33.96 | 2.08 | | 26.60 | 147.8 | .492 |
| 303 | 6.37 | 34.034 | 1.54 | | 250 | 6.67 | 34.01 | 1.76 | | 26.71 | 138.3 | .563 |
| 401 | 5.95 | 34.082 | 1.22 | | 300 | 6.38 | 34.03 | 1.55 | | 26.77 | 133.5 | .631 |
| 501 | 5.48 | 34.127 | .86 | | 400 | 5.95 | 34.08 | 1.22 | | 26.86 | 126.0 | .761 |
| 604 | 5.06 | 34.176 | .60 | | 500 | 5.48 | 34.13 | .86 | | 26.95 | 117.3 | .883 |
| 803 | 4.46 | 34.266 | .35 | | 600 | 5.08 | 34.17 | .61 | | 27.04 | 110.3 | .996 |
| 1006 | 3.74 | 34.376 | .29 | | 700 | 4.76 | 34.22 | .45 | | 27.11 | 103.9 | 1.103 |
| | | | | | 800 | 4.47 | 34.26 | .35 | | 27.18 | 97.8 | 1.204 |
| | | | | | 1000 | 3.76 | 34.37 | .29 | | 27.34 | 83.2 | 1.385 |
| AH 035 46 14.4 N 124 56.3 W DATE 22 SEP 63 1430 GCT WIRE 05 DRY 61.5 WET 59.0 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 10 KTS BAR 03 SWELL DIRECTION 27 H 05 T 09 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.78 | 31.764 | 5.99 | | 0 | 15.78 | 31.76 | 5.99 | | 23.33 | 456.4 | 0 |
| 10 | 15.70 | 31.745 | 6.16 | | 10 | 15.70 | 31.75 | 6.17 | | 23.34 | 455.6 | .046 |
| 20 | 10.96 | 32.114 | 4.97 | | 20 | 10.96 | 32.12 | 4.97 | | 24.57 | 339.0 | .085 |
| 30 | 9.49 | 32.379 | 5.01 | | 30 | 9.49 | 32.38 | 5.02 | | 25.02 | 296.0 | .117 |
| 50 | 8.56 | 32.637 | 4.98 | | 50 | 8.56 | 32.64 | 4.98 | | 25.37 | 263.2 | .173 |
| 76 | 7.89 | 33.277 | 3.60 | | 75 | 7.90 | 33.25 | 3.66 | | 25.94 | 208.9 | .232 |
| 104 | 7.88 | 33.636 | 3.48 | | 100 | 7.88 | 33.60 | 3.50 | | 26.22 | 183.1 | .281 |
| 153 | 7.61 | 33.913 | 2.56 | | 150 | 7.63 | 33.91 | 2.62 | | 26.49 | 157.6 | .366 |
| 209 | 7.11 | 33.975 | 2.16 | | 200 | 7.19 | 33.97 | 2.20 | | 26.60 | 147.9 | .442 |
| 313 | 6.39 | 34.018 | 1.86 | | 250 | 6.81 | 34.00 | 2.02 | | 26.68 | 141.0 | .515 |
| 417 | 5.75 | 34.062 | 1.41 | | 300 | 6.47 | 34.02 | 1.89 | | 26.74 | 136.0 | .584 |
| 518 | 5.37 | 34.137 | .88 | | 400 | 5.84 | 34.05 | 1.49 | | 26.85 | 126.6 | .715 |
| 617 | 4.85 | 34.181 | .62 | | 500 | 5.43 | 34.12 | .97 | | 26.96 | 116.9 | .837 |
| | | | | | 600 | 4.95 | 34.18 | .65 | | 27.05 | 108.7 | .950 |
| AH 025 46 14.3 N 124 41.8 W DATE 22 SEP 63 1702 GCT WIRE 07 DRY 61.5 WET 58.5 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 12 KTS BAR 04 SWELL DIRECTION 19 H 05 T 05 CLOUD 6 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.41 | 30.251 | 5.94 | | 0 | 16.42 | 30.26 | 5.94 | | 22.04 | 579.7 | 0 |
| 10 | 14.64 | 31.409 | 6.03 | | 10 | 14.64 | 31.41 | 6.04 | | 23.31 | 458.4 | .052 |
| 20 | 10.10 | 32.296 | 5.30 | | 20 | 10.10 | 32.30 | 5.31 | | 24.86 | 311.5 | .090 |
| 30 | 9.40 | 32.496 | 5.46 | | 30 | 9.40 | 32.50 | 5.46 | | 25.13 | 285.9 | .120 |
| 50 | 8.58 | 32.796 | 4.41 | | 50 | 8.58 | 32.80 | 4.41 | | 25.49 | 251.7 | .174 |
| 76 | 8.55 | 33.537 | 3.73 | | 75 | 8.55 | 33.51 | 3.75 | | 26.05 | 199.0 | .230 |
| 104 | 8.13 | 33.731 | 3.35 | | 100 | 8.20 | 33.72 | 3.39 | | 26.27 | 178.3 | .277 |
| 158 | 7.56 | 33.935 | 2.48 | | 150 | 7.62 | 33.92 | 2.59 | | 26.50 | 156.7 | .361 |
| 207 | 7.31 | 34.014 | 2.26 | | 200 | 7.33 | 34.01 | 2.29 | | 26.62 | 146.5 | .437 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 015 46 14.4 N 124 27.3 W DATE 22 SEP 63 1942 GCT WIRE 04 DRY 59.5 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 14 VEL 16 KTS BAR 04 SWELL DIRECTION 14 H 05 T 05 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.18 | 32.143 | 6.37 | | 0 | 15.18 | 32.15 | 6.38 | | 23.76 | 415.4 | 0 |
| 10 | 14.63 | 32.188 | 5.65 | | 10 | 14.63 | 32.19 | 5.66 | | 23.92 | 401.1 | .041 |
| 20 | 10.03 | 32.360 | | | 20 | 10.03 | 32.36 | 5.25 | | 24.92 | 305.6 | .076 |
| 30 | 9.11 | 32.494 | 4.91 | | 30 | 9.11 | 32.50 | 4.91 | | 25.17 | 281.7 | .106 |
| 50 | 8.10 | 33.200 | 3.77 | | 50 | 8.10 | 33.21 | 3.78 | | 25.88 | 214.8 | .155 |
| 76 | 8.37 | 33.558 | 3.66 | | 75 | 8.35 | 33.55 | 3.66 | | 26.11 | 193.0 | .206 |
| 103 | 7.85 | 33.806 | 2.58 | | 100 | 7.92 | 33.78 | 2.71 | | 26.36 | 169.9 | .251 |
| 157 | 7.58 | 33.903 | 1.70 | | 150 | 7.58 | 33.89 | 1.75 | | 26.49 | 158.0 | .333 |
| 206 | 7.52 | 33.932 | 1.47 | | 200 | 7.53 | 33.93 | 1.50 | | 26.53 | 155.0 | .412 |
| AH 005 46 14.5 N 124 13.6 W DATE 22 SEP 63 2028 GCT WIRE 05 DRY 60.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 08 KTS BAR 05 SWELL DIRECTION 17 H 04 T 08 CLOUD - AMT 9 WEATHER 03 | | | | | | | | | | | | |
| 0 | 14.91 | 27.043 | 6.71 | | 0 | 14.91 | 27.05 | 6.71 | | 19.91 | 784.4 | 0 |
| 10 | 12.83 | 30.924 | 5.32 | | 10 | 12.83 | 30.93 | 5.32 | | 23.30 | 459.3 | .062 |
| 20 | 9.73 | 33.151 | 3.63 | | 20 | 9.73 | 33.16 | 3.64 | | 25.58 | 242.3 | .097 |
| 31 | 8.02 | 33.212 | 3.48 | | 30 | 8.10 | 33.21 | 3.49 | | 25.88 | 214.4 | .120 |
| 40 | 7.97 | 33.388 | 3.57 | | 50 | 8.00 | 33.61 | 2.97 | | 26.21 | 183.1 | .160 |
| 50 | 8.00 | 33.608 | 2.97 | | 75 | 8.35 | 33.55 | | | 26.11 | 193.0 | .207 |
| NH 5 44 39.1 N 124 10.6 W DATE 21 NOV 63 0540 GCT WIRE 0 DRY 51.5 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 10 KTS BAR 16 SWELL DIRECTION 27 H 4 T 5 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.49 | 31.873 | 5.95 | | 0 | 12.49 | 31.88 | 5.95 | | 24.10 | 383.1 | 0 |
| 10 | 12.67 | 31.993 | 6.01 | | 10 | 12.67 | 32.00 | 6.02 | | 24.16 | 377.7 | .038 |
| 20 | 12.93 | 32.310 | 6.15 | | 20 | 12.93 | 32.31 | 6.16 | | 24.35 | 359.4 | .075 |
| 30 | 12.91 | 32.378 | 6.01 | | 30 | 12.91 | 32.38 | 6.02 | | 24.41 | 354.2 | .111 |
| 40 | 13.05 | 32.467 | 6.00 | | 50 | 13.15 | 32.60 | 5.90 | | 24.53 | 343.3 | .180 |
| 50 | 13.15 | 32.593 | 5.89 | | 75 | 8.35 | 33.55 | | | 26.11 | 193.0 | .247 |
| NH 15 44 39.1 N 124 24.9 W DATE 21 NOV 63 0755 GCT WIRE 5 DRY 51.5 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 10 KTS BAR 15 SWELL DIRECTION 27 H 6 T 6 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.76 | 32.262 | 6.01 | | 0 | 12.76 | 32.27 | 6.02 | | 24.35 | 359.3 | 0 |
| 10 | 12.77 | 32.263 | 6.03 | | 10 | 12.77 | 32.27 | 6.04 | | 24.35 | 359.7 | .036 |
| 25 | 13.16 | 32.622 | 5.90 | | 20 | 13.06 | 32.48 | 5.98 | | 24.46 | 349.3 | .071 |
| 40 | 12.52 | 32.871 | 5.29 | | 30 | 13.00 | 32.71 | 5.72 | | 24.65 | 331.7 | .105 |
| 65 | 11.43 | 33.245 | 4.32 | | 50 | 12.09 | 33.03 | 4.89 | | 25.07 | 292.1 | .168 |
| NH 25 44 39.1 N 124 38.5 W DATE 21 NOV 63 1119 GCT WIRE 3 DRY 49.5 WET 44.5 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 10 KTS BAR 15 SWELL DIRECTION 27 H 6 T 6 CLOUD - AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.69 | 32.460 | 6.04 | | 0 | 12.69 | 32.46 | 6.05 | | 24.52 | 343.5 | 0 |
| 10 | 12.70 | 32.460 | 6.02 | | 10 | 12.70 | 32.46 | 6.03 | | 24.52 | 343.9 | .034 |
| 20 | 12.74 | 32.482 | 6.04 | | 20 | 12.74 | 32.49 | 6.05 | | 24.52 | 343.2 | .069 |
| 30 | 12.75 | 32.510 | 5.98 | | 30 | 12.75 | 32.51 | 5.98 | | 24.54 | 341.5 | .103 |
| 49 | 12.64 | 32.773 | 5.52 | | 50 | 12.55 | 32.80 | 5.44 | | 24.81 | 316.8 | .169 |
| 75 | 10.05 | 33.550 | 3.56 | | 75 | 10.05 | 33.55 | 3.57 | | 25.84 | 218.9 | .236 |
| 102 | 9.38 | 33.697 | 3.22 | | 100 | 9.39 | 33.62 | 3.25 | | 26.00 | 203.8 | .289 |
| 151 | 8.73 | 33.823 | 2.97 | | 150 | 8.74 | 33.82 | 2.97 | | 26.26 | 180.1 | .385 |
| 205 | 8.09 | 33.923 | 2.59 | | 200 | 8.15 | 33.92 | 2.63 | | 26.43 | 164.8 | .471 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 45 44 39.1 N 125 6.8 W DATE 21 NOV 63 1826 GCT WIRE - DRY 52.0 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 8 KTS BAR 17 SWELL DIRECTION 29 H 6 T 8 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.08 | 32.202 | 6.27 | | 0 | 12.08 | 32.21 | 6.28 | | 24.43 | 351.5 | 0 |
| 10 | 12.08 | | 6.21 | | 10 | 12.08 | 32.18 | 6.21 | | 24.41 | 353.5 | .035 |
| 20 | 12.10 | 32.186 | 6.29 | | 20 | 12.10 | 32.19 | 6.30 | | 24.42 | 353.4 | .071 |
| 30 | 12.09 | 32.190 | 6.16 | | 30 | 12.09 | 32.19 | 6.17 | | 24.42 | 353.1 | .106 |
| 49 | 9.96 | 32.612 | 5.78 | | 50 | 9.89 | 32.63 | 5.74 | | 25.15 | 284.2 | .170 |
| 76 | 8.87 | 33.090 | 4.75 | | 75 | 8.88 | 33.07 | 4.79 | | 25.66 | 236.3 | .235 |
| 103 | 8.36 | 33.535 | 3.97 | | 100 | 8.40 | 33.49 | 4.05 | | 26.06 | 198.6 | .289 |
| 153 | 7.62 | 33.890 | 3.07 | | 150 | 7.66 | 33.88 | 3.11 | | 26.47 | 159.7 | .379 |
| 207 | 7.17 | 33.968 | 2.67 | | 200 | 7.22 | 33.95 | 2.71 | | 26.59 | 149.4 | .456 |
| 309 | 6.28 | 34.047 | 1.66 | | 250 | 6.79 | 34.00 | 2.24 | | 26.69 | 140.5 | .528 |
| 410 | 5.58 | 34.104 | 1.08 | | 300 | 6.36 | 34.04 | 1.75 | | 26.78 | 132.6 | .597 |
| 513 | 4.98 | 34.152 | .76 | | 400 | 5.64 | 34.10 | 1.12 | | 26.91 | 120.7 | .723 |
| 616 | 4.57 | 34.234 | .53 | | 500 | 5.05 | 34.15 | .79 | | 27.02 | 110.5 | .839 |
| | | | | | 600 | 4.62 | 34.22 | .56 | | 27.13 | 101.6 | .945 |
| NH 65 44 39.1 N 125 34.8 W DATE 21 NOV 63 2235 GCT WIRE 10 DRY 52.5 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 22 KTS BAR 14 SWELL DIRECTION 29 H 8 T 6 CLOUD 0 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.09 | 32.096 | 5.99 | | 0 | 12.09 | 32.10 | 5.99 | | 24.35 | 359.4 | 0 |
| 10 | 12.09 | 32.096 | 6.04 | | 10 | 12.09 | 32.10 | 6.05 | | 24.35 | 359.6 | .036 |
| 20 | 12.10 | 32.096 | 6.05 | | 20 | 12.10 | 32.10 | 6.06 | | 24.35 | 360.0 | .072 |
| 29 | 12.09 | 32.102 | 6.06 | | 30 | 12.03 | 32.13 | 6.01 | | 24.39 | 356.6 | .108 |
| 48 | 10.57 | 32.860 | 4.76 | | 50 | 10.44 | 32.92 | 4.67 | | 25.28 | 272.0 | .171 |
| 102 | 8.29 | 33.718 | 3.28 | | 75 | 9.13 | 33.45 | 3.75 | | 25.91 | 211.8 | .231 |
| 150 | 7.80 | 33.892 | 2.80 | | 100 | 8.33 | 33.71 | 3.30 | | 26.24 | 181.3 | .280 |
| 204 | 7.06 | | 2.19 | | 150 | 7.81 | 33.90 | 2.80 | | 26.46 | 160.7 | .366 |
| 303 | 6.16 | 34.035 | 1.58 | | 200 | 7.12 | 33.98 | 2.23 | | 26.62 | 146.0 | .442 |
| 401 | 5.60 | 34.101 | 1.14 | | 250 | 6.58 | 34.02 | 1.86 | | 26.73 | 136.1 | .513 |
| 501 | 5.08 | 34.144 | .68 | | 300 | 6.18 | 34.03 | 1.59 | | 26.79 | 131.0 | .580 |
| 602 | 4.62 | 34.202 | .47 | | 400 | 5.60 | 34.10 | 1.14 | | 26.92 | 120.2 | .705 |
| 803 | 4.14 | 34.306 | .31 | | 500 | 5.08 | 34.14 | .68 | | 27.01 | 111.1 | .821 |
| 1005 | 3.56 | 34.397 | .33 | | 600 | 4.63 | 34.20 | .47 | | 27.11 | 103.0 | .928 |
| 1205 | 3.16 | 34.467 | .63 | | 700 | 4.36 | 34.25 | .36 | | 27.18 | 96.4 | 1.027 |
| | | | | | 800 | 4.15 | 34.30 | .31 | | 27.25 | 91.0 | 1.121 |
| | | | | | 1000 | 3.57 | 34.39 | .33 | | 27.38 | 79.4 | 1.291 |
| | | | | | 1200 | 3.17 | 34.47 | .62 | | 27.47 | 70.5 | 1.441 |
| NH45-2 44 39.1 N 125 6.9 W DATE 30 NOV 63 0230 GCT WIRE 3 DRY 55.5 WET 51.8 | | | | | | | | | | | | |
| WIND DIRECTION 15 VEL 11 KTS BAR 20 SWELL DIRECTION 27 H 4 T 9 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.82 | 32.204 | 6.23 | | 0 | 11.82 | 32.21 | 6.23 | | 24.48 | 346.7 | 0 |
| 10 | 11.82 | 32.219 | 6.20 | | 10 | 11.82 | 32.22 | 6.20 | | 24.49 | 345.8 | .035 |
| 20 | 11.83 | 32.213 | 6.23 | | 20 | 11.83 | 32.22 | 6.23 | | 24.49 | 346.6 | .069 |
| 30 | 11.82 | 32.352 | 6.19 | | 30 | 11.82 | 32.36 | 6.19 | | 24.60 | 336.4 | .103 |
| 50 | 10.69 | 33.356 | 6.00 | | 50 | 10.69 | 33.36 | 6.01 | | 25.58 | 243.3 | .161 |
| 76 | 8.64 | 33.695 | 4.05 | | 75 | 8.71 | 33.69 | 4.13 | | 26.17 | 187.7 | .215 |
| 103 | 8.18 | 33.888 | 3.36 | | 100 | 8.19 | 33.87 | 3.40 | | 26.39 | 167.1 | .260 |
| 153 | 7.65 | 33.953 | 2.86 | | 150 | 7.68 | 33.95 | 2.87 | | 26.52 | 155.0 | .340 |
| 208 | 7.04 | 34.008 | 2.71 | | 200 | 7.13 | 34.00 | 2.73 | | 26.64 | 144.3 | .415 |
| 312 | 6.08 | | 1.82 | | 250 | 6.62 | 34.04 | 2.41 | | 26.74 | 135.4 | .485 |
| 372 | 5.63 | | 1.21 | | 300 | 6.18 | 34.07 | 1.95 | | 26.82 | 128.2 | .551 |
| 416 | 5.44 | 34.094 | 1.22 | | 400 | 5.50 | 34.09 | 1.22 | | 26.92 | 119.8 | .675 |
| NH 85 44 39.1 N 126 3.0 W DATE 30 NOV 63 1014 GCT WIRE 0 DRY 53.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 0 VEL 0 KTS BAR 24 SWELL DIRECTION 27 H 4 T 7 CLOUD - AMT - WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.73 | 32.314 | 6.30 | | 0 | 11.73 | 32.32 | 6.31 | | 24.58 | 337.0 | 0 |
| 20 | 11.74 | 32.321 | 6.28 | | 10 | 11.73 | 32.33 | 6.22 | | 24.60 | 336.2 | .034 |
| 30 | 11.75 | 32.310 | 6.34 | | 20 | 11.74 | 32.33 | 6.29 | | 24.59 | 337.1 | .067 |
| 50 | 11.31 | 32.452 | 5.79 | | 30 | 11.75 | 32.31 | 6.34 | | 24.58 | 338.2 | .101 |
| 76 | 8.73 | | 3.91 | | 50 | 11.31 | 32.46 | 5.80 | | 24.77 | 320.5 | .167 |
| 104 | 8.46 | | 3.16 | | 75 | 8.83 | 32.83 | 3.98 | | 25.48 | 253.2 | .239 |
| 154 | 7.94 | 33.949 | 2.43 | | 100 | 8.50 | 33.20 | 3.22 | | 25.82 | 221.4 | .298 |
| 209 | 7.46 | 34.029 | 2.15 | | 150 | 7.98 | 33.90 | 2.47 | | 26.44 | 163.2 | .394 |
| 311 | 6.46 | 34.047 | 1.67 | | 200 | 7.54 | 34.02 | 2.18 | | 26.60 | 148.8 | .472 |
| 412 | 5.82 | 34.105 | 1.15 | | 250 | 7.05 | 34.04 | 1.96 | | 26.69 | 140.8 | .544 |
| 514 | 5.29 | 34.156 | .73 | | 300 | 6.56 | 34.05 | 1.72 | | 26.75 | 135.0 | .613 |
| 618 | 4.71 | 34.224 | .65 | | 400 | 5.88 | 34.10 | 1.21 | | 26.88 | 123.9 | .743 |
| 824 | 4.19 | 34.326 | .29 | | 500 | 5.36 | 34.15 | .77 | | 26.99 | 114.1 | .862 |
| 1029 | 3.50 | 34.407 | .57 | | 600 | 4.80 | 34.21 | .65 | | 27.10 | 104.2 | .971 |
| | | | | | 700 | 4.46 | 34.27 | .48 | | 27.18 | 96.7 | 1.071 |
| | | | | | 800 | 4.23 | 34.32 | .32 | | 27.24 | 91.2 | 1.165 |
| | | | | | 1000 | 3.61 | 34.40 | .49 | | 27.37 | 79.6 | 1.336 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 105 44 39.1 N 126 31.0 W DATE 30 NOV 63 1607 GCT WIRE 0 DRY 51.5 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 6 KTS BAR 22 SWELL DIRECTION 27 H 4 T 9 CLOUD 4 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.47 | 32.303 | 6.26 | | 0 | 11.47 | 32.31 | 6.27 | | 24.62 | 333.3 | 0 |
| 20 | 11.48 | 32.300 | 6.20 | | 10 | 11.46 | 32.30 | 6.11 | | 24.62 | 333.8 | .033 |
| 30 | 11.50 | 32.302 | 6.29 | | 20 | 11.48 | 32.30 | 6.20 | | 24.62 | 334.1 | .067 |
| 49 | 11.49 | 32.312 | 6.21 | | 30 | 11.50 | 32.31 | 6.30 | | 24.62 | 334.5 | .100 |
| 75 | 8.93 | | 4.30 | | 50 | 11.40 | 32.33 | 6.15 | | 24.65 | 331.6 | .167 |
| 102 | 8.46 | | 3.47 | | 75 | 8.93 | 32.69 | 4.30 | | 25.35 | 265.5 | .241 |
| 150 | 8.08 | 33.914 | 2.52 | | 100 | 8.49 | 33.08 | 3.51 | | 25.72 | 230.8 | .303 |
| 204 | 7.65 | 34.000 | 2.25 | | 150 | 8.08 | 33.92 | 2.52 | | 26.44 | 163.0 | .402 |
| 303 | 6.63 | 34.052 | 1.78 | | 200 | 7.68 | 33.99 | 2.26 | | 26.56 | 152.6 | .481 |
| 403 | 5.89 | 34.063 | 1.28 | | 250 | 7.18 | 34.04 | 2.03 | | 26.66 | 143.2 | .555 |
| 504 | 5.37 | | .89 | | 300 | 6.66 | 34.05 | 1.79 | | 26.74 | 135.8 | .624 |
| 606 | 4.96 | 34.191 | .56 | | 400 | 5.91 | 34.06 | 1.29 | | 26.85 | 126.8 | .756 |
| 810 | 4.03 | 34.305 | .28 | | 500 | 5.39 | 34.12 | .90 | | 26.96 | 116.9 | .877 |
| 1012 | 3.61 | | .37 | | 600 | 4.98 | 34.19 | .58 | | 27.06 | 108.3 | .990 |
| | | | | | 700 | 4.51 | 34.25 | .38 | | 27.16 | 98.9 | 1.093 |
| | | | | | 800 | 4.07 | 34.30 | .28 | | 27.25 | 90.5 | 1.188 |
| | | | | | 1000 | 3.62 | 34.40 | .35 | | 27.37 | 79.8 | 1.358 |
| NH 145 44 39.1 N 127 26.8 W DATE 1 DEC 63 0021 GCT WIRE 7 DRY 52.0 WET 48.2 | | | | | | | | | | | | |
| WIND DIRECTION 09 VEL 4 KTS BAR 23 SWELL DIRECTION 27 H 4 T 7 CLOUD 6 AMT 7 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.04 | 32.455 | 6.24 | | 0 | 12.04 | 32.46 | 6.24 | | 24.64 | 332.1 | 0 |
| 20 | 11.99 | 32.457 | 6.13 | | 10 | 12.00 | 32.46 | 5.99 | | 24.64 | 331.7 | .033 |
| 30 | 12.01 | 32.456 | 6.27 | | 20 | 11.99 | 32.46 | 6.14 | | 24.65 | 331.4 | .066 |
| 49 | 10.77 | 32.567 | 6.06 | | 30 | 12.01 | 32.46 | 6.28 | | 24.64 | 332.1 | .100 |
| 103 | 8.33 | 33.184 | 4.78 | | 50 | 10.71 | 32.58 | 6.04 | | 24.97 | 301.5 | .163 |
| 151 | 7.42 | 33.698 | 3.95 | | 75 | 9.40 | 32.84 | 5.48 | | 25.39 | 261.5 | .233 |
| 206 | 7.06 | 33.915 | 3.31 | | 100 | 8.42 | 33.14 | 4.86 | | 25.78 | 224.6 | .294 |
| 304 | 5.87 | 33.956 | 2.29 | | 150 | 7.43 | 33.69 | 3.96 | | 26.35 | 170.9 | .393 |
| 402 | 5.03 | 34.039 | 1.36 | | 200 | 7.09 | 33.90 | 3.37 | | 26.57 | 150.9 | .473 |
| 501 | 4.72 | 34.122 | 1.06 | | 250 | 6.55 | 33.93 | 2.84 | | 26.67 | 142.4 | .547 |
| 602 | 4.42 | 34.188 | .42 | | 300 | 5.92 | 33.95 | 2.33 | | 26.76 | 133.5 | .615 |
| 803 | 3.94 | 34.317 | .29 | | 400 | 5.04 | 34.04 | 1.38 | | 26.93 | 118.1 | .741 |
| 1005 | 3.40 | 34.389 | .28 | | 500 | 4.72 | 34.12 | 1.06 | | 27.04 | 108.5 | .854 |
| 1201 | 3.05 | 34.466 | .59 | | 600 | 4.43 | 34.19 | .43 | | 27.12 | 101.7 | .960 |
| | | | | | 700 | 4.18 | 34.25 | .36 | | 27.20 | 94.4 | 1.057 |
| | | | | | 800 | 3.95 | 34.32 | .29 | | 27.27 | 87.9 | 1.149 |
| | | | | | 1000 | 3.41 | 34.39 | .28 | | 27.38 | 78.1 | 1.314 |
| | | | | | 1200 | 3.05 | 34.47 | .59 | | 27.48 | 69.2 | 1.462 |
| SH 145 43 59.7 N 127 26.8 W DATE 1 DEC 63 0800 GCT WIRE 3 DRY 53.5 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 13 VEL 5 KTS HAR 19 SWELL DIRECTION 27 H 3 T 9 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.34 | 32.395 | 6.01 | | 0 | 12.34 | 32.40 | 6.02 | | 24.53 | 341.9 | 0 |
| 20 | 12.33 | 32.395 | 6.07 | | 10 | 12.30 | 32.40 | 5.97 | | 24.54 | 341.5 | .034 |
| 30 | 12.36 | 32.393 | 6.17 | | 20 | 12.33 | 32.40 | 6.07 | | 24.54 | 342.1 | .068 |
| 49 | 12.00 | 32.489 | 6.14 | | 30 | 12.36 | 32.40 | 6.18 | | 24.53 | 343.0 | .103 |
| 103 | 9.12 | 33.445 | 4.22 | | 50 | 11.95 | 32.50 | 6.11 | | 24.69 | 328.1 | .170 |
| 155 | 8.29 | 33.812 | 3.20 | | 75 | 10.66 | 32.92 | 5.33 | | 25.25 | 275.4 | .245 |
| 208 | 7.72 | 33.936 | 2.69 | | 100 | 9.29 | 33.39 | 4.35 | | 25.84 | 219.7 | .307 |
| 308 | 6.52 | 34.024 | 1.96 | | 150 | 8.32 | 33.79 | 3.27 | | 26.31 | 175.8 | .406 |
| 409 | 5.75 | 34.074 | 1.26 | | 200 | 7.80 | 33.93 | 2.75 | | 26.49 | 159.1 | .490 |
| 511 | 5.20 | 34.145 | .81 | | 250 | 7.20 | 33.99 | 2.36 | | 26.62 | 147.1 | .566 |
| 614 | 4.63 | 34.198 | .53 | | 300 | 6.61 | 34.02 | 2.01 | | 26.73 | 137.4 | .637 |
| 820 | 4.12 | 34.333 | .29 | | 400 | 5.81 | 34.07 | 1.32 | | 26.87 | 124.9 | .768 |
| 1025 | 3.58 | 34.422 | .41 | | 500 | 5.25 | 34.14 | .85 | | 26.99 | 113.7 | .888 |
| 1225 | 3.14 | 34.475 | .61 | | 600 | 4.70 | 34.19 | .56 | | 27.09 | 104.6 | .997 |
| | | | | | 700 | 4.37 | 34.25 | .38 | | 27.18 | 96.6 | 1.097 |
| | | | | | 800 | 4.15 | 34.32 | .30 | | 27.26 | 89.9 | 1.190 |
| | | | | | 1000 | 3.64 | 34.41 | .38 | | 27.38 | 78.8 | 1.359 |
| | | | | | 1200 | 3.19 | 34.47 | .58 | | 27.47 | 70.4 | 1.508 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| SH 125 43 59.7 N 126 59.2 W DATE 1 DEC 63 1127 GCT WIRE 4 DRY 52.0 WET 48.8 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 0 KTS BAR 21 SWELL DIRECTION 27 H 3 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.10 | 32.452 | 6.12 | | 0 | 12.10 | 32.46 | 6.13 | | 24.62 | 333.4 | 0 |
| 20 | 12.11 | 32.424 | 6.13 | | 10 | 12.08 | 32.43 | 5.96 | | 24.61 | 335.0 | .033 |
| 30 | 12.14 | 32.431 | 6.30 | | 20 | 12.11 | 32.43 | 6.14 | | 24.60 | 336.0 | .067 |
| 50 | 12.09 | | 6.15 | | 30 | 12.14 | 32.44 | 6.31 | | 24.60 | 336.2 | .101 |
| 76 | 9.44 | 32.772 | 6.13 | | 50 | 12.09 | 32.52 | 6.16 | | 24.67 | 329.7 | .167 |
| 103 | 8.29 | 33.198 | 4.71 | | 75 | 9.55 | 32.76 | 6.14 | | 25.30 | 269.8 | .242 |
| 152 | 8.00 | 33.813 | 3.27 | | 100 | 8.36 | 33.15 | 4.89 | | 25.79 | 223.4 | .304 |
| 207 | 7.46 | 33.983 | 2.68 | | 150 | 8.01 | 33.79 | 3.31 | | 26.35 | 171.2 | .402 |
| 309 | 6.20 | 34.072 | 2.12 | | 200 | 7.54 | 33.98 | 2.72 | | 26.57 | 151.6 | .483 |
| 410 | 5.41 | 34.061 | 1.23 | | 250 | 6.92 | 34.04 | 2.42 | | 26.70 | 139.1 | .556 |
| 513 | 4.76 | 34.090 | .92 | | 300 | 6.31 | 34.06 | 2.16 | | 26.80 | 130.3 | .623 |
| 617 | 4.43 | 34.186 | .47 | | 400 | 5.47 | 34.06 | 1.31 | | 26.90 | 121.3 | .749 |
| 822 | 3.91 | 34.334 | .32 | | 500 | 4.83 | 34.08 | .95 | | 27.00 | 112.5 | .866 |
| 1027 | 3.43 | 34.429 | | | 600 | 4.47 | 34.17 | .54 | | 27.10 | 103.6 | .974 |
| | | | | | 700 | 4.21 | 34.25 | .41 | | 27.20 | 94.9 | 1.073 |
| | | | | | 800 | 3.96 | 34.32 | .34 | | 27.28 | 87.6 | 1.164 |
| | | | | | 1000 | 3.49 | 34.42 | | | 27.40 | 76.6 | 1.328 |
| SH 105 43 59.7 N 126 31.8 W DATE 1 DEC 63 1558 GCT WIRE 2 DRY 52.0 WET 48.6 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 4 KTS BAR 23 SWELL DIRECTION 27 H 3 T 10 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.21 | 32.437 | 6.11 | | 0 | 12.21 | 32.44 | 6.11 | | 24.59 | 336.5 | 0 |
| 20 | 12.25 | 32.418 | 6.11 | | 10 | 12.24 | 32.42 | 5.93 | | 24.57 | 338.7 | .034 |
| 29 | 12.24 | 32.429 | 6.27 | | 20 | 12.25 | 32.42 | 6.11 | | 24.57 | 339.0 | .068 |
| 48 | 12.13 | 32.406 | 6.15 | | 30 | 12.23 | 32.43 | 6.27 | | 24.58 | 338.5 | .102 |
| 73 | 9.87 | 32.551 | 6.18 | | 50 | 11.97 | 32.41 | 6.16 | | 24.61 | 335.4 | .169 |
| 98 | 8.77 | 32.876 | 5.35 | | 75 | 9.75 | 32.57 | 6.13 | | 25.13 | 286.7 | .247 |
| 145 | 7.94 | 33.756 | | | 100 | 8.71 | 32.92 | 5.28 | | 25.56 | 245.8 | .313 |
| 199 | 7.47 | 33.918 | 2.69 | | 150 | 7.89 | 33.79 | 3.78 | | 26.37 | 169.6 | .417 |
| 299 | 6.13 | 33.980 | 2.05 | | 200 | 7.46 | 33.92 | 2.68 | | 26.53 | 154.9 | .498 |
| 400 | 5.40 | 34.030 | 1.35 | | 250 | 6.79 | 33.97 | 2.24 | | 26.66 | 142.8 | .573 |
| 502 | 4.83 | 34.108 | .77 | | 300 | 6.12 | 33.98 | 2.04 | | 26.76 | 134.1 | .642 |
| 606 | 4.49 | 34.221 | .43 | | 400 | 5.41 | 34.04 | 1.36 | | 26.89 | 122.6 | .770 |
| 812 | 4.00 | 34.366 | .30 | | 500 | 4.84 | 34.11 | .78 | | 27.01 | 111.0 | .887 |
| | | | | | 600 | 4.51 | 34.21 | .44 | | 27.14 | 100.5 | .992 |
| | | | | | 700 | 4.24 | 34.30 | .37 | | 27.23 | 91.7 | 1.088 |
| | | | | | 800 | 4.02 | 34.36 | .31 | | 27.30 | 85.4 | 1.177 |
| SH 85 43 59.1 N 126 3.8 W DATE 1 DEC 63 2036 GCT WIRE 0 DRY 52.5 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 6 KTS BAR 22 SWELL DIRECTION 27 H 3 T 7 CLOUD - AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.07 | 32.407 | 6.17 | | 0 | 12.07 | 32.41 | 6.18 | | 24.59 | 336.2 | 0 |
| 20 | 12.07 | 32.455 | 6.15 | | 10 | 12.04 | 32.44 | 6.01 | | 24.63 | 333.4 | .033 |
| 30 | 12.10 | 32.441 | 6.29 | | 20 | 12.07 | 32.46 | 6.16 | | 24.63 | 333.0 | .067 |
| 50 | 12.23 | 32.532 | 6.02 | | 30 | 12.10 | 32.45 | 6.30 | | 24.61 | 334.8 | .100 |
| 76 | 9.37 | 33.300 | 4.36 | | 50 | 12.23 | 32.54 | 6.03 | | 24.66 | 330.8 | .167 |
| 104 | 8.96 | 33.698 | 3.48 | | 75 | 9.49 | 33.27 | 4.43 | | 25.71 | 231.2 | .237 |
| 153 | 8.23 | 33.934 | 2.66 | | 100 | 9.02 | 33.66 | 3.57 | | 26.09 | 195.2 | .290 |
| 209 | 7.36 | 33.971 | 2.40 | | 150 | 8.28 | 33.93 | 2.69 | | 26.42 | 164.9 | .380 |
| 310 | 6.44 | 34.050 | 1.76 | | 200 | 7.49 | 33.97 | 2.42 | | 26.56 | 152.0 | .459 |
| 411 | 5.76 | 34.082 | 1.21 | | 250 | 6.92 | 34.00 | 2.15 | | 26.67 | 142.0 | .533 |
| 514 | 5.12 | 34.171 | .66 | | 300 | 6.51 | 34.04 | 1.83 | | 26.76 | 134.4 | .602 |
| 618 | 4.70 | 34.243 | .42 | | 400 | 5.83 | 34.08 | 1.27 | | 26.87 | 124.6 | .731 |
| 824 | 4.12 | 34.363 | .36 | | 500 | 5.20 | 34.16 | .73 | | 27.01 | 111.5 | .849 |
| 1029 | 3.56 | 34.426 | .43 | | 600 | 4.76 | 34.23 | .45 | | 27.12 | 102.3 | .956 |
| | | | | | 700 | 4.45 | 34.30 | .40 | | 27.21 | 94.4 | 1.055 |
| | | | | | 800 | 4.18 | 34.35 | .37 | | 27.28 | 87.9 | 1.146 |
| | | | | | 1000 | 3.64 | 34.42 | .41 | | 27.39 | 78.2 | 1.312 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| SH 65 43 59.7 N 125 36.2 W DATE 2 DEC 63 0142 GCT WIRE 3 DRY 53.8 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 0 KTS BAR 23 SWELL DIRECTION 27 H 3 T 7 CLOUD 4 AMT 9 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.92 | 32.279 | 6.24 | | 0 | 11.92 | 32.28 | 6.24 | | 24.52 | 342.9 | 0 |
| 20 | 11.79 | 32.285 | 6.15 | | 10 | 11.76 | 32.27 | 6.16 | | 24.54 | 341.3 | .034 |
| 30 | 11.82 | 32.300 | 6.21 | | 20 | 11.79 | 32.29 | 6.16 | | 24.55 | 340.6 | .068 |
| 49 | 9.64 | 32.650 | 5.81 | | 30 | 11.82 | 32.30 | 6.21 | | 24.56 | 340.2 | .102 |
| 103 | 8.60 | 33.578 | 3.77 | | 50 | 9.58 | 32.67 | 5.77 | | 25.23 | 276.4 | .164 |
| 151 | 7.96 | 33.911 | 2.78 | | 75 | 8.64 | 33.14 | 4.85 | | 25.74 | 227.8 | .227 |
| 206 | 7.26 | 33.980 | 2.35 | | 100 | 8.66 | 33.54 | 3.89 | | 26.05 | 199.0 | .280 |
| 306 | 6.35 | 34.053 | 1.62 | | 150 | 7.97 | 33.91 | 2.79 | | 26.45 | 162.2 | .371 |
| 406 | 5.68 | 34.097 | 1.06 | | 200 | 7.33 | 33.97 | 2.38 | | 26.59 | 149.2 | .448 |
| 508 | 5.06 | 34.149 | .69 | | 250 | 6.82 | 34.02 | 2.01 | | 26.70 | 139.6 | .521 |
| 611 | 4.63 | 34.209 | .41 | | 300 | 6.39 | 34.05 | 1.66 | | 26.78 | 132.4 | .589 |
| 816 | 4.08 | 34.338 | .31 | | 400 | 5.72 | 34.09 | 1.09 | | 26.90 | 122.0 | .716 |
| 1020 | 3.62 | 34.417 | .37 | | 500 | 5.10 | 34.14 | .71 | | 27.01 | 111.3 | .832 |
| | | | | | 600 | 4.67 | 34.20 | .43 | | 27.11 | 103.4 | .940 |
| | | | | | 700 | 4.36 | 34.27 | .32 | | 27.19 | 95.5 | 1.039 |
| | | | | | 800 | 4.11 | 34.33 | .32 | | 27.27 | 88.8 | 1.131 |
| | | | | | 1000 | 3.66 | 34.41 | .36 | | 27.38 | 79.2 | 1.299 |
| SH 45 43 59.7 N 125 8.1 W DATE 2 DEC 63 0625 GCT WIRE 0 DRY 52.1 WET 50.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 2 KTS BAR 23 SWELL DIRECTION 27 H 2 T 10 CLOUD 4 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.07 | 32.420 | 6.08 | | 0 | 12.07 | 32.42 | 6.08 | | 24.60 | 335.2 | 0 |
| 20 | 12.33 | 32.476 | 5.89 | | 10 | 12.16 | 32.42 | 5.93 | | 24.58 | 337.4 | .034 |
| 30 | 12.50 | 32.534 | 5.85 | | 20 | 12.33 | 32.48 | 5.90 | | 24.60 | 336.1 | .067 |
| 50 | 10.31 | 33.055 | 4.69 | | 30 | 12.50 | 32.54 | 5.85 | | 24.61 | 335.2 | .101 |
| 76 | 9.62 | 33.529 | 3.89 | | 50 | 10.31 | 33.06 | 4.69 | | 25.41 | 259.2 | .160 |
| 104 | 8.95 | 33.826 | 2.68 | | 75 | 9.62 | 33.51 | 3.92 | | 25.88 | 214.9 | .220 |
| 153 | 8.16 | 33.896 | 2.71 | | 100 | 9.04 | 33.80 | 2.84 | | 26.20 | 185.5 | .270 |
| 208 | 7.83 | 33.997 | 2.15 | | 150 | 8.19 | 33.89 | 2.71 | | 26.40 | 166.6 | .358 |
| 309 | 6.98 | 34.085 | 1.53 | | 200 | 7.86 | 33.98 | 2.25 | | 26.52 | 155.9 | .438 |
| 410 | 5.93 | 34.094 | 1.06 | | 250 | 7.51 | 34.05 | 1.85 | | 26.62 | 147.0 | .514 |
| 512 | 5.31 | 34.132 | .79 | | 300 | 7.07 | 34.08 | 1.57 | | 26.71 | 139.1 | .585 |
| 615 | 4.80 | 34.215 | .46 | | 400 | 6.03 | 34.09 | 1.10 | | 26.86 | 126.1 | .718 |
| 820 | 4.18 | 34.322 | .29 | | 500 | 5.37 | 34.13 | .82 | | 26.97 | 115.9 | .839 |
| 1025 | 3.52 | 34.431 | .39 | | 600 | 4.87 | 34.20 | .50 | | 27.09 | 105.7 | .950 |
| | | | | | 700 | 4.51 | 34.26 | .33 | | 27.17 | 97.6 | 1.051 |
| | | | | | 800 | 4.23 | 34.31 | .31 | | 27.24 | 91.3 | 1.146 |
| | | | | | 1000 | 3.80 | 34.42 | .36 | | 27.39 | 78.0 | 1.315 |
| SH 35 43 59.7 N 124 55.7 W DATE 2 DEC 63 0858 GCT WIRE 0 DRY 52.8 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 06 VEL 6 KTS BAR 23 SWELL DIRECTION 27 H 3 T 7 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.15 | 32.469 | 6.06 | | 0 | 12.15 | 32.47 | 6.07 | | 24.63 | 333.0 | 0 |
| 10 | 12.20 | 32.454 | 6.08 | | 10 | 12.20 | 32.46 | 6.08 | | 24.61 | 335.2 | .033 |
| 20 | 12.32 | 32.520 | 6.02 | | 20 | 12.32 | 32.52 | 6.03 | | 24.63 | 332.7 | .067 |
| 31 | 12.43 | 32.650 | 5.80 | | 30 | 12.42 | 32.64 | 5.83 | | 24.70 | 326.6 | .100 |
| 41 | 12.49 | 32.841 | 5.44 | | 50 | 12.11 | 33.07 | 4.83 | | 25.10 | 289.3 | .161 |
| 52 | 11.97 | 33.128 | 4.66 | | 75 | 9.62 | 33.51 | | | 25.88 | 214.9 | .224 |
| SH 25 43 59.7 N 124 40.6 W DATE 2 DEC 63 1033 GCT WIRE 0 DRY 52.6 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION C VEL 0 KTS BAR 23 SWELL DIRECTION 27 H 3 T 7 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 12.38 | 32.498 | 6.00 | | 0 | 12.38 | 32.50 | 6.01 | | 24.61 | 335.0 | 0 |
| 10 | 12.33 | 32.486 | 6.03 | | 10 | 12.33 | 32.49 | 6.04 | | 24.61 | 335.2 | .034 |
| 20 | 12.33 | 32.483 | 6.11 | | 20 | 12.33 | 32.49 | 6.11 | | 24.60 | 335.6 | .067 |
| 30 | 12.32 | 32.484 | 6.03 | | 30 | 12.32 | 32.49 | 6.04 | | 24.61 | 335.6 | .101 |
| 50 | 11.75 | 32.891 | 5.29 | | 50 | 11.75 | 32.90 | 5.30 | | 25.03 | 295.8 | .164 |
| 77 | 9.70 | 33.657 | 3.01 | | 75 | 9.90 | 33.59 | 3.23 | | 25.90 | 213.7 | .227 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| SH 15 43 59.7 N 124 26.5 W DATE 2 DEC 63 1346 GCT WIRE 10 DRY 49.0 WET 44.3 | | | | | | | | | | | | |
| WIND DIRECTION 09 VEL 13 KTS BAR 23 SWELL DIRECTION 27 H 3 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.00 | 32.304 | 6.13 | | 0 | 12.00 | 32.31 | 6.14 | | 24.53 | 342.5 | 0 |
| 10 | 12.17 | 32.338 | 6.11 | | 10 | 12.17 | 32.34 | 6.11 | | 24.52 | 343.2 | .034 |
| 20 | 12.28 | 32.375 | 6.18 | | 20 | 12.28 | 32.38 | 6.19 | | 24.53 | 342.7 | .069 |
| 30 | 12.29 | 32.381 | 6.07 | | 30 | 12.29 | 32.39 | 6.07 | | 24.53 | 342.6 | .103 |
| 49 | 12.73 | 32.553 | 5.80 | | 50 | 12.73 | 32.57 | 5.77 | | 24.59 | 337.4 | .171 |
| 76 | 11.67 | 33.256 | 4.52 | | 75 | 11.74 | 33.22 | 4.59 | | 25.28 | 272.2 | .247 |
| SH 5 43 59.7 N 124 13.1 W DATE 2 DEC 63 1509 GCT WIRE 5 DRY 46.0 WET 41.1 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 15 KTS BAR 23 SWELL DIRECTION 27 H 3 T 10 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.13 | 32.104 | 6.16 | | 0 | 12.13 | 32.11 | 6.17 | | 24.35 | 359.6 | 0 |
| 10 | 12.51 | 32.385 | 6.10 | | 10 | 12.51 | 32.39 | 6.10 | | 24.49 | 345.9 | .035 |
| 20 | 12.69 | 32.481 | 6.01 | | 20 | 12.69 | 32.49 | 6.02 | | 24.53 | 342.3 | .070 |
| 30 | 12.77 | 32.507 | 5.98 | | 30 | 12.77 | 32.51 | 5.98 | | 24.54 | 342.1 | .104 |
| 40 | 12.74 | 32.532 | 5.88 | | 50 | 12.73 | 32.57 | | | 24.59 | 337.4 | .172 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| NH 15 44 39.1 N 124 24.7 W DATE 3 FEB 64 0138 GCT WIRE 4 DRY 50.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 36 VEL 12 KTS BAR 27 SWELL DIRECTION 29 H 6 T 9 CLOUD 5 AMT 4 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.64 | 32.619 | | | 0 | 10.64 | 32.62 | | | 25.02 | 296.0 | 0 |
| 27 | 10.62 | 32.622 | | | 10 | 10.64 | 32.62 | | | 25.01 | 296.5 | .030 |
| 47 | 10.59 | 32.637 | | | 20 | 10.63 | 32.62 | | | 25.02 | 296.3 | .059 |
| 57 | 10.60 | 32.679 | | | 30 | 10.61 | 32.62 | | | 25.02 | 296.1 | .089 |
| 67 | 10.63 | 32.629 | | | 50 | 10.59 | 32.65 | | | 25.04 | 294.3 | .148 |
| 77 | 10.66 | 32.651 | | | 75 | 10.65 | 32.64 | | | 25.03 | 296.2 | .222 |
| NH 25 44 39.1 N 124 38.9 W DATE 3 FEB 64 0536 GCT WIRE 3 DRY 50.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 05 VEL 10 KTS BAR 28 SWELL DIRECTION 29 H 8 T 9 CLOUD AMT WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.06 | 32.468 | 6.53 | | 0 | 10.06 | 32.47 | 6.54 | | 25.00 | 297.8 | 0 |
| 10 | 10.05 | 32.452 | 6.36 | | 10 | 10.05 | 32.46 | 6.36 | | 24.99 | 299.0 | .030 |
| 20 | 10.07 | 32.450 | 6.34 | | 20 | 10.07 | 32.46 | 6.34 | | 24.98 | 299.6 | .060 |
| 30 | 10.02 | 32.446 | 6.35 | | 30 | 10.02 | 32.45 | 6.35 | | 24.99 | 299.3 | .090 |
| 50 | 10.02 | 32.451 | 6.32 | | 50 | 10.02 | 32.46 | 6.32 | | 24.99 | 299.2 | .150 |
| 77 | 10.36 | 32.748 | 6.11 | | 75 | 10.35 | 32.71 | 6.17 | | 25.14 | 285.8 | .223 |
| 105 | 9.62 | 33.475 | 3.60 | | 100 | 9.79 | 33.34 | 4.08 | | 25.72 | 230.6 | .287 |
| 155 | 8.78 | 33.801 | 2.86 | | 150 | 8.85 | 33.80 | 2.93 | | 26.23 | 183.1 | .391 |
| 210 | 8.02 | 33.948 | 2.44 | | 200 | 8.15 | 33.94 | 2.49 | | 26.44 | 163.3 | .477 |
| NH 35 44 39.2 N 124 52.7 W DATE 3 FEB 64 0735 GCT WIRE DRY 50.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 08 KTS BAR 27 SWELL DIRECTION 29 H 6 T 9 CLOUD AMT WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.29 | 32.522 | 6.37 | | 0 | 10.29 | 32.53 | 6.38 | | 25.00 | 297.5 | 0 |
| 10 | 10.29 | 32.523 | 6.33 | | 10 | 10.29 | 32.53 | 6.33 | | 25.00 | 297.6 | .030 |
| 20 | 10.31 | 32.523 | 6.32 | | 20 | 10.31 | 32.53 | 6.32 | | 25.00 | 298.0 | .060 |
| 30 | 10.27 | 32.546 | 6.32 | | 30 | 10.27 | 32.55 | 6.32 | | 25.02 | 295.9 | .089 |
| 50 | 10.26 | 32.521 | 6.31 | | 50 | 10.26 | 32.53 | 6.32 | | 25.00 | 297.9 | .149 |
| 77 | 10.07 | 32.961 | 5.05 | | 75 | 10.09 | 32.92 | 5.17 | | 25.34 | 266.8 | .219 |
| 105 | 9.46 | 33.650 | 3.65 | | 100 | 9.58 | 33.53 | 3.88 | | 25.90 | 213.7 | .279 |
| 154 | 8.84 | | 3.00 | | 150 | 8.88 | 33.76 | 3.01 | | 26.19 | 186.5 | .379 |
| 210 | 8.28 | 33.909 | 2.55 | | 200 | 8.37 | 33.88 | 2.61 | | 26.37 | 170.6 | .468 |
| NH 45 44 39.1 N 125 6.8 W DATE 3 FEB 64 1128 GCT WIRE 2 DRY 49.6 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 04 VEL 10 KTS BAR 25 SWELL DIRECTION 29 H 6 T 9 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.20 | 32.483 | 6.39 | | 0 | 10.20 | 32.49 | 6.40 | | 24.99 | 298.9 | 0 |
| 10 | 10.21 | 32.503 | 6.38 | | 10 | 10.21 | 32.51 | 6.39 | | 25.00 | 297.8 | .030 |
| 20 | 10.24 | 32.484 | 6.36 | | 20 | 10.24 | 32.49 | 6.36 | | 24.98 | 299.8 | .060 |
| 30 | 10.23 | 32.537 | 6.42 | | 30 | 10.23 | 32.54 | 6.43 | | 25.02 | 295.9 | .089 |
| 50 | 10.27 | 32.493 | 6.29 | | 50 | 10.27 | 32.50 | 6.30 | | 24.98 | 300.1 | .149 |
| 75 | 9.53 | 33.503 | 3.60 | | 75 | 9.53 | 33.51 | 3.60 | | 25.89 | 214.1 | .213 |
| 100 | 9.19 | 33.688 | 3.17 | | 100 | 9.19 | 33.69 | 3.17 | | 26.09 | 195.5 | .265 |
| 149 | 8.75 | 33.792 | 2.85 | | 150 | 8.74 | 33.79 | 2.84 | | 26.24 | 181.9 | .359 |
| 200 | 8.28 | 33.927 | 2.54 | | 200 | 8.28 | 33.93 | 2.54 | | 26.42 | 165.8 | .446 |
| 299 | 7.26 | 34.026 | 2.05 | | 250 | 7.77 | 33.99 | 2.29 | | 26.54 | 154.6 | .526 |
| 399 | 6.25 | 34.066 | 1.44 | | 300 | 7.25 | 34.03 | 2.04 | | 26.64 | 145.7 | .601 |
| 507 | 5.45 | 34.172 | .84 | | 400 | 6.24 | 34.07 | 1.43 | | 26.81 | 130.8 | .739 |
| | | | | | 500 | 5.49 | 34.16 | .88 | | 26.98 | 114.7 | .862 |
| NH 65 44 39.1 N 125 35.0 W DATE 3 FEB 64 1655 GCT WIRE 2 DRY 51.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 04 KTS BAR 27 SWELL DIRECTION 26 H 8 T 9 CLOUD 2 AMT 4 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.03 | 32.559 | 6.42 | | 0 | 10.03 | 32.56 | 6.43 | | 25.07 | 290.6 | 0 |
| 10 | 10.03 | 32.518 | 6.33 | | 10 | 10.03 | 32.52 | 6.33 | | 25.04 | 293.8 | .029 |
| 30 | 10.05 | 32.496 | 6.35 | | 20 | 10.04 | 32.50 | 6.34 | | 25.02 | 295.7 | .059 |
| 50 | 10.03 | 32.496 | 6.37 | | 30 | 10.05 | 32.50 | 6.35 | | 25.02 | 296.0 | .088 |
| 77 | 8.88 | 33.469 | 3.87 | | 50 | 10.03 | 32.50 | 6.38 | | 25.02 | 296.1 | .147 |
| 101 | 8.38 | 33.753 | 3.20 | | 75 | 8.98 | 33.39 | 4.07 | | 25.89 | 214.2 | .211 |
| 151 | 7.81 | 33.957 | 2.52 | | 100 | 8.39 | 33.75 | 3.21 | | 26.26 | 179.4 | .260 |
| 205 | 7.35 | 33.984 | 2.23 | | 150 | 7.82 | 33.96 | 2.53 | | 26.51 | 156.4 | .344 |
| 305 | 6.35 | 34.035 | 1.65 | | 200 | 7.39 | 33.98 | 2.25 | | 26.59 | 149.4 | .421 |
| 404 | 5.72 | 34.093 | 1.06 | | 250 | 6.89 | 34.01 | 1.97 | | 26.68 | 141.5 | .493 |
| 505 | 5.15 | 34.157 | .63 | | 300 | 6.40 | 34.03 | 1.68 | | 26.76 | 133.8 | .562 |
| 607 | 4.75 | 34.214 | .39 | | 400 | 5.74 | 34.09 | 1.08 | | 26.89 | 122.6 | .690 |
| 810 | 4.22 | 34.327 | .20 | | 500 | 5.18 | 34.15 | .65 | | 27.01 | 111.5 | .807 |
| 1010 | 3.69 | 34.404 | .34 | | 600 | 4.77 | 34.21 | .40 | | 27.10 | 104.0 | .915 |
| 1215 | 3.14 | 34.462 | .50 | | 700 | 4.49 | 34.27 | .30 | | 27.18 | 97.0 | 1.016 |
| | | | | | 800 | 4.24 | 34.32 | .29 | | 27.25 | 90.8 | 1.109 |
| | | | | | 1000 | 3.72 | 34.40 | .33 | | 27.37 | 80.6 | 1.281 |
| | | | | | 1200 | 3.18 | 34.46 | .48 | | 27.46 | 71.2 | 1.432 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |

NH 85 44 39.1 N 126 3.0 W DATE 3 FEB 64 2041 GCT WIRE 4 DRY 52.2 WET 49.2
WIND DIRECTION 31 VEL 04 KTS BAR 26 SWELL DIRECTION 26 H 8 T 9 CLOUD 4 AMT 3 WEATHER 01

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.67 | 32.385 | 6.46 | 0 | 9.67 | 32.40 | 6.46 | 25.00 | 297.1 | 0 |
| 10 | 9.52 | 32.369 | 6.47 | 10 | 9.53 | 32.37 | 6.47 | 25.01 | 296.9 | .030 |
| 20 | 9.54 | 32.370 | 6.49 | 20 | 9.54 | 32.38 | 6.49 | 25.01 | 297.2 | .059 |
| 30 | 9.52 | 32.371 | 6.55 | 30 | 9.52 | 32.38 | 6.56 | 25.01 | 297.0 | .089 |
| 50 | 9.51 | 32.376 | 6.48 | 50 | 9.51 | 32.38 | 6.48 | 25.02 | 296.8 | .148 |
| 77 | 9.66 | 32.681 | 5.68 | 75 | 9.65 | 32.64 | 5.77 | 25.20 | 279.9 | .221 |
| 104 | 8.23 | 33.534 | 3.75 | 100 | 8.47 | 33.41 | 4.04 | 25.98 | 205.9 | .281 |
| 154 | 7.81 | 33.876 | 2.81 | 150 | 7.84 | 33.85 | 2.81 | 26.42 | 164.9 | .374 |
| 209 | 7.15 | 34.008 | 2.48 | 200 | 7.26 | 34.00 | 2.43 | 26.62 | 146.4 | .452 |
| 310 | 6.10 | 34.028 | 1.81 | 250 | 6.68 | 34.02 | 2.13 | 26.71 | 137.9 | .523 |
| 412 | 5.58 | 34.038 | 1.25 | 300 | 6.19 | 34.03 | 1.86 | 26.79 | 131.6 | .590 |
| 514 | 5.02 | 34.104 | .76 | 400 | 5.63 | 34.04 | 1.31 | 26.86 | 125.3 | .718 |
| 617 | 4.69 | 34.241 | .44 | 500 | 5.09 | 34.09 | .82 | 26.97 | 115.1 | .839 |
| 821 | 4.09 | 34.358 | .28 | 600 | 4.73 | 34.22 | .48 | 27.11 | 102.9 | .948 |
| 1025 | 3.57 | 34.400 | .29 | 700 | 4.43 | 34.31 | .33 | 27.22 | 93.5 | 1.046 |
| | | | | 800 | 4.15 | 34.35 | .30 | 27.28 | 87.5 | 1.136 |
| | | | | 1000 | 3.63 | 34.40 | .29 | 27.37 | 79.7 | 1.303 |

NH 105 44 39.1 N 126 30.8 W DATE 4 FEB 64 0105 GCT WIRE 4 DRY 52.1 WET 49.1
WIND DIRECTION 20 VEL 2 KTS BAR 24 SWELL DIRECTION 29 H 8 T 9 CLOUD 4 AMT 4 WEATHER 03

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.72 | 32.376 | 6.39 | 0 | 9.72 | 32.38 | 6.40 | 24.98 | 299.3 | 0 |
| 10 | 9.58 | 32.392 | 6.41 | 10 | 9.58 | 32.40 | 6.42 | 25.02 | 296.1 | .030 |
| 30 | 9.61 | 32.407 | 6.35 | 20 | 9.60 | 32.40 | 6.38 | 25.02 | 296.0 | .059 |
| 50 | 9.64 | 32.411 | 6.47 | 30 | 9.61 | 32.41 | 6.35 | 25.02 | 295.7 | .089 |
| 77 | 8.72 | 33.260 | 4.17 | 50 | 9.64 | 32.42 | 6.47 | 25.02 | 296.2 | .148 |
| 105 | 8.27 | 33.857 | 2.74 | 75 | 8.80 | 33.19 | 4.37 | 25.76 | 226.7 | .213 |
| 154 | 7.85 | 33.980 | 2.15 | 100 | 8.33 | 33.75 | 2.93 | 26.27 | 178.2 | .264 |
| 210 | 7.55 | 33.994 | 2.01 | 150 | 7.87 | 33.97 | 2.20 | 26.51 | 156.4 | .348 |
| 255 | 7.20 | 34.010 | 1.91 | 200 | 7.60 | 33.99 | 2.01 | 26.57 | 151.6 | .425 |
| 311 | 6.60 | 34.061 | 1.63 | 250 | 7.24 | 34.01 | 1.92 | 26.63 | 146.2 | .499 |
| 413 | 5.88 | 34.076 | 1.07 | 300 | 6.72 | 34.05 | 1.69 | 26.74 | 136.7 | .570 |
| 515 | 5.27 | 34.131 | .77 | 400 | 5.96 | 34.08 | 1.14 | 26.86 | 126.4 | .701 |
| 619 | 4.75 | 34.223 | .45 | 500 | 5.35 | 34.12 | .81 | 26.96 | 116.1 | .822 |
| 823 | 4.09 | 34.303 | .21 | 600 | 4.84 | 34.21 | .51 | 27.09 | 105.1 | .933 |
| 1028 | 3.54 | 34.399 | .37 | 700 | 4.45 | 34.26 | .31 | 27.18 | 97.0 | 1.034 |
| | | | | 800 | 4.15 | 34.30 | .22 | 27.24 | 91.6 | 1.128 |
| | | | | 1000 | 3.61 | 34.38 | .32 | 27.36 | 80.5 | 1.300 |

NH 125 44 39.3 N 126 58.8 W DATE 4 FEB 64 0544 GCT WIRE 2 DRY 51.5 WET 50.0
WIND DIRECTION 22 VEL 10 KTS BAR 21 SWELL DIRECTION 28 H 8 T 10 CLOUD 4 AMT 6 WEATHER 01

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.75 | 32.447 | 6.51 | 0 | 9.75 | 32.47 | 6.52 | 25.05 | 293.0 | 0 |
| 10 | 9.72 | 32.447 | 6.43 | 10 | 9.72 | 32.45 | 6.44 | 25.04 | 294.2 | .029 |
| 30 | 9.68 | 32.454 | 6.37 | 20 | 9.70 | 32.45 | 6.39 | 25.04 | 294.3 | .059 |
| 50 | 9.65 | 32.444 | 6.39 | 30 | 9.68 | 32.46 | 6.38 | 25.05 | 293.4 | .088 |
| 76 | 8.58 | 33.317 | 4.10 | 50 | 9.65 | 32.45 | 6.40 | 25.05 | 293.9 | .147 |
| 104 | 8.30 | 33.667 | 3.38 | 75 | 8.62 | 33.28 | 4.28 | 25.86 | 217.2 | .211 |
| 154 | 8.08 | 33.915 | 2.57 | 100 | 8.31 | 33.64 | 3.44 | 26.19 | 186.1 | .261 |
| 210 | 7.45 | 34.000 | 2.19 | 150 | 8.10 | 33.91 | 2.61 | 26.43 | 164.1 | .349 |
| 255 | 6.84 | 34.017 | 1.90 | 200 | 7.58 | 33.99 | 2.24 | 26.57 | 151.0 | .427 |
| 311 | 6.40 | 34.039 | 1.64 | 250 | 6.90 | 34.02 | 1.93 | 26.68 | 140.9 | .500 |
| 413 | 5.79 | 34.084 | 1.06 | 300 | 6.47 | 34.03 | 1.69 | 26.76 | 134.6 | .569 |
| 515 | 5.15 | 34.139 | .70 | 400 | 5.85 | 34.08 | 1.13 | 26.87 | 125.0 | .699 |
| 618 | 4.75 | | .44 | 500 | 5.24 | 34.13 | .82 | 26.99 | 114.0 | .818 |
| 822 | 4.09 | 34.368 | .24 | 600 | 4.81 | 34.19 | .50 | 27.08 | 106.2 | .928 |
| 1027 | 3.60 | 34.401 | .36 | 700 | 4.46 | 34.24 | .30 | 27.16 | 98.6 | 1.031 |
| | | | | 800 | 4.15 | 34.30 | .26 | 27.24 | 91.7 | 1.126 |
| | | | | 1000 | 3.65 | 34.39 | .33 | 27.36 | 80.7 | 1.298 |

NH 145 44 39.1 N 127 27.8 W DATE 4 FEB 64 0941 GCT WIRE 16 DRY 51.9 WET 49.2
WIND DIRECTION 25 VEL 14 KTS BAR 26 SWELL DIRECTION 28 H 10 T 9 CLOUD 4 AMT 8 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 9.70 | 32.441 | 6.43 | 0 | 9.70 | 32.45 | 6.44 | 25.04 | 294.1 | 0 |
| 10 | 9.70 | 32.438 | 6.45 | 10 | 9.70 | 32.44 | 6.45 | 25.03 | 294.5 | .029 |
| 30 | 9.64 | 32.434 | 6.44 | 20 | 9.68 | 32.43 | 6.44 | 25.03 | 294.9 | .059 |
| 50 | 9.53 | 32.454 | 6.32 | 30 | 9.64 | 32.44 | 6.44 | 25.04 | 294.2 | .088 |
| 72 | 8.64 | 33.042 | 4.39 | 50 | 9.53 | 32.46 | 6.32 | 25.07 | 291.3 | .147 |
| 99 | 8.22 | 33.367 | 4.23 | 75 | 8.57 | 33.09 | 4.78 | 25.72 | 230.4 | .212 |
| 146 | 7.68 | 33.786 | 3.27 | 100 | 8.21 | 33.38 | 4.21 | 26.00 | 204.1 | .266 |
| 200 | 7.10 | 33.925 | 2.94 | 150 | 7.64 | 33.80 | 3.23 | 26.42 | 165.1 | .359 |
| 244 | 6.63 | 33.945 | 2.66 | 200 | 7.10 | 33.93 | 2.95 | 26.59 | 149.3 | .437 |
| 299 | 5.87 | 33.964 | 2.08 | 250 | 6.54 | 33.85 | 2.60 | 26.68 | 141.3 | .510 |
| 399 | 5.26 | 34.044 | 1.19 | 300 | 5.86 | 33.96 | 2.07 | 26.78 | 132.0 | .578 |
| 500 | 5.02 | 34.153 | .66 | 400 | 5.26 | 34.05 | 1.18 | 26.92 | 120.0 | .704 |
| 603 | 4.54 | 34.203 | .42 | 500 | 5.03 | 34.16 | .67 | 27.03 | 109.3 | .819 |
| 806 | 3.99 | 34.336 | .26 | 600 | 4.55 | 34.20 | .42 | 27.12 | 102.0 | .924 |
| 1011 | 3.35 | 34.492 | .28 | 700 | 4.25 | 34.25 | .31 | 27.19 | 95.8 | 1.023 |
| | | | | 800 | 4.00 | 34.30 | .26 | 27.26 | 89.5 | 1.116 |
| | | | | 1000 | 3.39 | 34.48 | .27 | 27.46 | 70.9 | 1.276 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| NH 165 44 39.1 N 127 55.0 W DATE 4 FEB 64 1505 GCT WIRE 13 DRY 50.0 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 28 VEL 17 KTS BAR 28 SWELL DIRECTION 28 H 8 T 8 CLOUD 6 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.71 | 32.535 | 6.48 | | 0 | 9.71 | 32.54 | 6.48 | | 25.11 | 287.3 | 0 |
| 10 | 9.70 | 32.539 | 6.43 | | 10 | 9.70 | 32.54 | 6.43 | | 25.11 | 287.0 | .029 |
| 30 | 9.66 | 32.478 | 6.41 | | 20 | 9.68 | 32.51 | 6.42 | | 25.09 | 289.3 | .058 |
| 50 | 9.62 | 32.466 | 6.48 | | 30 | 9.66 | 32.48 | 6.42 | | 25.07 | 291.2 | .087 |
| 72 | 9.61 | 32.464 | 6.42 | | 50 | 9.63 | 32.47 | 6.48 | | 25.07 | 291.8 | .145 |
| 95 | 9.06 | 32.680 | 5.89 | | 75 | 9.55 | 32.48 | 6.38 | | 25.09 | 290.4 | .218 |
| 143 | 8.12 | 33.690 | 3.34 | | 100 | 8.95 | 32.79 | 5.62 | | 25.42 | 259.0 | .286 |
| 194 | 7.42 | 33.920 | 2.86 | | 150 | 8.01 | 33.75 | 3.20 | | 26.32 | 174.4 | .395 |
| 290 | 6.15 | 33.942 | 2.42 | | 200 | 7.33 | 33.93 | 2.83 | | 26.56 | 152.5 | .476 |
| 389 | 5.51 | 34.031 | 1.55 | | 250 | 6.64 | 33.93 | 2.59 | | 26.65 | 143.6 | .550 |
| 488 | 4.94 | 34.097 | .80 | | 300 | 6.07 | 33.95 | 2.34 | | 26.74 | 135.7 | .620 |
| 589 | 4.44 | 34.169 | .45 | | 400 | 5.44 | 34.04 | 1.45 | | 26.89 | 122.8 | .749 |
| 791 | 4.02 | 34.345 | .27 | | 500 | 4.87 | 34.11 | .74 | | 27.01 | 111.5 | .866 |
| 990 | 3.50 | 34.371 | .26 | | 600 | 4.41 | 34.18 | .43 | | 27.12 | 102.0 | .973 |
| 1193 | 3.03 | 34.437 | .37 | | 700 | 4.17 | 34.27 | .30 | | 27.22 | 92.9 | 1.070 |
| | | | | | 800 | 4.00 | 34.35 | .27 | | 27.29 | 86.1 | 1.160 |
| | | | | | 1000 | 3.48 | 34.37 | .26 | | 27.37 | 79.8 | 1.326 |
| | | | | | 1200 | 3.01 | 34.44 | .37 | | 27.46 | 70.7 | 1.476 |
| CH 165 43 20.5 N 128 7.2 W DATE 4 FEB 64 1718 GCT WIRE 18 DRY 48.0 WET 42.8 | | | | | | | | | | | | |
| WIND DIRECTION 03 VEL 18 KTS BAR 36 SWELL DIRECTION 00 H 8 T 5 CLOUD 8 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.35 | 32.566 | 6.36 | | 0 | 10.35 | 32.57 | 6.36 | | 25.02 | 295.2 | 0 |
| 10 | 10.34 | 32.559 | 6.31 | | 10 | 10.34 | 32.56 | 6.32 | | 25.02 | 295.7 | .030 |
| 31 | 10.36 | 32.571 | 6.33 | | 20 | 10.36 | 32.56 | 6.31 | | 25.02 | 296.3 | .059 |
| 51 | 10.22 | 32.601 | 6.32 | | 30 | 10.36 | 32.57 | 6.33 | | 25.02 | 295.8 | .089 |
| 70 | 10.05 | 32.710 | 5.86 | | 50 | 10.23 | 32.60 | 6.33 | | 25.07 | 292.0 | .148 |
| 93 | 8.87 | 33.316 | 4.38 | | 75 | 9.81 | 32.83 | 5.56 | | 25.32 | 268.6 | .218 |
| 138 | 8.39 | 33.832 | 2.98 | | 100 | 8.71 | 33.44 | 4.07 | | 25.97 | 207.0 | .277 |
| 184 | 7.99 | 33.925 | 2.50 | | 150 | 8.29 | 33.88 | 2.80 | | 26.38 | 168.9 | .371 |
| 272 | 7.00 | 33.988 | 2.17 | | 200 | 7.81 | 33.94 | 2.42 | | 26.50 | 158.1 | .453 |
| 362 | 6.28 | 34.029 | 1.68 | | 250 | 7.25 | 33.98 | 2.22 | | 26.61 | 148.3 | .529 |
| 454 | 5.66 | 34.070 | 1.14 | | 300 | 6.75 | 34.00 | 2.03 | | 26.69 | 140.8 | .601 |
| 543 | 5.16 | 34.144 | .69 | | 400 | 6.01 | 34.04 | 1.45 | | 26.82 | 129.5 | .737 |
| 730 | 4.28 | 34.227 | .38 | | 500 | 5.39 | 34.11 | .89 | | 26.95 | 117.6 | .860 |
| 925 | 3.95 | 34.335 | .29 | | 600 | 4.85 | 34.17 | .54 | | 27.06 | 107.7 | .973 |
| 1109 | 3.36 | 34.423 | .27 | | 700 | 4.39 | 34.22 | .39 | | 27.15 | 99.7 | 1.076 |
| | | | | | 800 | 4.14 | 34.27 | .33 | | 27.21 | 93.9 | 1.173 |
| | | | | | 1000 | 3.74 | 34.37 | .27 | | 27.34 | 83.0 | 1.350 |
| CH 145 43 20.5 N 127 40.4 W DATE 5 FEB 64 0742 GCT WIRE 6 DRY 47.5 WET 41.0 | | | | | | | | | | | | |
| WIND DIRECTION 04 VEL 18 KTS BAR 37 SWELL DIRECTION 02 H 8 T 5 CLOUD 8 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.28 | 32.577 | 6.55 | | 0 | 10.28 | 32.58 | 6.56 | | 25.04 | 293.2 | 0 |
| 11 | 10.28 | 32.582 | 6.37 | | 10 | 10.28 | 32.58 | 6.37 | | 25.05 | 293.2 | .029 |
| 21 | 10.30 | 32.575 | 6.47 | | 20 | 10.30 | 32.58 | 6.46 | | 25.04 | 294.3 | .059 |
| 31 | 10.27 | 32.586 | 6.38 | | 30 | 10.28 | 32.58 | 6.40 | | 25.05 | 293.6 | .088 |
| 51 | 9.70 | 32.916 | 5.34 | | 50 | 9.74 | 32.89 | 5.41 | | 25.38 | 262.3 | .144 |
| 78 | 8.95 | 33.573 | 3.79 | | 75 | 9.02 | 33.51 | 3.94 | | 25.97 | 206.3 | .202 |
| 105 | 8.66 | 33.782 | 3.11 | | 100 | 8.69 | 33.76 | 3.20 | | 26.22 | 182.7 | .251 |
| 155 | 8.23 | 33.953 | 2.24 | | 150 | 8.27 | 33.95 | 2.32 | | 26.43 | 163.7 | .337 |
| 209 | 7.88 | 33.989 | 2.17 | | 200 | 7.93 | 33.99 | 2.18 | | 26.52 | 156.5 | .417 |
| 310 | 7.32 | 34.029 | 1.96 | | 250 | 7.66 | 34.01 | 2.10 | | 26.57 | 151.9 | .495 |
| 413 | 6.54 | 34.056 | 1.61 | | 300 | 7.38 | 34.03 | 1.98 | | 26.63 | 147.5 | .569 |
| 520 | 5.60 | 34.118 | .96 | | 400 | 6.65 | 34.05 | 1.67 | | 26.75 | 137.3 | .712 |
| 624 | 4.99 | 34.182 | .51 | | 500 | 5.77 | 34.10 | 1.09 | | 26.90 | 122.5 | .842 |
| 828 | 4.26 | 34.290 | .24 | | 600 | 5.11 | 34.17 | .60 | | 27.03 | 111.3 | .958 |
| 1030 | 3.63 | 34.435 | .26 | | 700 | 4.68 | 34.22 | .34 | | 27.12 | 102.7 | 1.065 |
| | | | | | 800 | 4.34 | 34.27 | .24 | | 27.20 | 95.5 | 1.164 |
| | | | | | 1000 | 3.72 | 34.41 | .26 | | 27.37 | 79.8 | 1.340 |
| CH 125 43 20.5 N 127 13.0 W DATE 5 FEB 64 1223 GCT WIRE 26 DRY 46.5 WET 42.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 18 KTS BAR 36 SWELL DIRECTION 34 H 8 T 8 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.29 | 32.576 | 6.39 | | 0 | 10.29 | 32.58 | 6.40 | | 25.04 | 293.5 | 0 |
| 10 | 10.30 | 32.570 | 6.36 | | 10 | 10.30 | 32.57 | 6.36 | | 25.04 | 294.2 | .029 |
| 30 | 10.33 | 32.573 | 6.35 | | 20 | 10.32 | 32.57 | 6.35 | | 25.03 | 294.9 | .059 |
| 50 | 10.31 | 32.580 | 6.35 | | 30 | 10.33 | 32.58 | 6.35 | | 25.03 | 294.8 | .088 |
| 77 | 10.27 | 32.604 | 6.23 | | 50 | 10.31 | 32.58 | 6.35 | | 25.04 | 294.3 | .147 |
| 100 | 8.93 | 33.305 | 4.33 | | 75 | 10.30 | 32.59 | 6.28 | | 25.05 | 294.4 | .221 |
| 146 | 8.34 | 33.732 | 3.39 | | 100 | 8.93 | 33.31 | 4.33 | | 25.83 | 219.9 | .285 |
| 197 | 7.80 | 33.948 | 2.54 | | 150 | 8.30 | 33.76 | 3.30 | | 26.28 | 178.1 | .385 |
| 238 | 7.16 | 33.960 | 2.54 | | 200 | 7.76 | 33.95 | 2.54 | | 26.51 | 157.0 | .468 |
| 277 | 6.58 | 33.996 | 2.18 | | 250 | 6.97 | 33.95 | 2.45 | | 26.63 | 146.4 | .544 |
| 378 | 5.85 | 34.068 | 1.29 | | 300 | 6.36 | 34.02 | 1.95 | | 26.76 | 134.3 | .614 |
| 465 | 5.23 | 34.092 | .96 | | 400 | 5.68 | 34.07 | 1.19 | | 26.89 | 123.1 | .743 |
| 559 | 4.86 | 34.143 | .59 | | 500 | 5.07 | 34.12 | .81 | | 27.00 | 112.5 | .861 |
| 756 | 4.21 | 34.316 | .28 | | 600 | 4.71 | 34.22 | .49 | | 27.11 | 102.9 | .968 |
| 958 | 3.68 | 34.402 | .26 | | 700 | 4.38 | 34.28 | .32 | | 27.20 | 94.5 | 1.067 |
| | | | | | 800 | 4.08 | 34.34 | .28 | | 27.28 | 87.7 | 1.158 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 105 43 20.5 N 126 45.7 W DATE 5 FEB 64 1723 GCT WIRE 7 DRY 47.5 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 22 KTS BAR 35 SWELL DIRECTION 02 H 8 T 7 CLOUD 6 AMT 7 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.12 | 32.539 | 6.48 | | 0 | 10.13 | 32.54 | 6.48 | | 25.04 | 293.5 | 0 |
| 11 | 10.10 | 32.536 | 6.37 | | 10 | 10.10 | 32.54 | 6.37 | | 25.04 | 293.8 | .029 |
| 21 | 10.13 | 32.543 | 6.37 | | 20 | 10.13 | 32.54 | 6.37 | | 25.04 | 294.0 | .059 |
| 31 | 10.13 | 32.544 | 6.37 | | 30 | 10.13 | 32.54 | 6.37 | | 25.04 | 294.1 | .088 |
| 52 | 10.13 | 32.564 | 6.37 | | 50 | 10.13 | 32.56 | 6.37 | | 25.05 | 293.2 | .147 |
| 79 | 9.99 | 32.652 | 5.93 | | 75 | 10.07 | 32.61 | 6.07 | | 25.10 | 289.0 | .220 |
| 105 | 8.16 | 33.536 | 3.86 | | 100 | 8.54 | 33.36 | 4.27 | | 25.93 | 210.6 | .282 |
| 157 | 7.56 | 33.800 | 3.54 | | 150 | 7.64 | 33.76 | 3.58 | | 26.38 | 168.2 | .377 |
| 209 | 7.11 | 33.954 | 3.33 | | 200 | 7.18 | 33.93 | 3.37 | | 26.58 | 150.1 | .456 |
| 415 | 5.34 | 34.043 | 1.31 | | 250 | 6.71 | 34.00 | 2.95 | | 26.70 | 139.4 | .529 |
| 522 | 4.88 | 34.116 | .76 | | 300 | 6.26 | 34.04 | 2.48 | | 26.79 | 131.4 | .596 |
| 626 | 4.51 | 34.199 | .46 | | 400 | 5.45 | 34.04 | 1.47 | | 26.89 | 123.0 | .723 |
| 831 | 3.91 | 34.335 | .24 | | 500 | 4.96 | 34.10 | .85 | | 26.99 | 112.9 | .841 |
| 1036 | 3.40 | 34.419 | .32 | | 600 | 4.60 | 34.18 | .52 | | 27.10 | 104.3 | .950 |
| | | | | | 700 | 4.28 | 34.25 | .33 | | 27.19 | 95.6 | 1.050 |
| | | | | | 800 | 3.99 | 34.32 | .25 | | 27.27 | 88.3 | 1.142 |
| | | | | | 1000 | 3.48 | 34.41 | .28 | | 27.39 | 77.3 | 1.307 |
| CH 85 43 20.5 N 126 18.9 W DATE 5 FEB 64 2201 GCT WIRE 15 DRY 47.0 WET 43.2 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 22 KTS BAR 32 SWELL DIRECTION 00 H 10 T 6 CLOUD 4 AMT 5 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.25 | 32.513 | 6.43 | | 0 | 10.25 | 32.52 | 6.44 | | 25.00 | 297.5 | 0 |
| 11 | 10.24 | 32.511 | 6.43 | | 10 | 10.24 | 32.51 | 6.44 | | 25.00 | 297.9 | .030 |
| 21 | 10.26 | 32.517 | 6.37 | | 20 | 10.26 | 32.52 | 6.37 | | 25.00 | 298.0 | .060 |
| 31 | 10.24 | 32.515 | 6.43 | | 30 | 10.24 | 32.52 | 6.42 | | 25.00 | 298.0 | .089 |
| 52 | 10.21 | 32.514 | 6.37 | | 50 | 10.22 | 32.51 | 6.39 | | 25.00 | 298.0 | .149 |
| 78 | 9.91 | 32.702 | 5.73 | | 75 | 9.98 | 32.66 | 5.84 | | 25.16 | 283.6 | .222 |
| 104 | 8.43 | 33.358 | 4.38 | | 100 | 8.67 | 33.25 | 4.59 | | 25.83 | 220.3 | .285 |
| 152 | 8.00 | 33.826 | 3.23 | | 150 | 8.02 | 33.82 | 3.26 | | 26.37 | 169.5 | .382 |
| 203 | 7.81 | 33.979 | 2.44 | | 200 | 7.82 | 33.98 | 2.48 | | 26.52 | 155.8 | .463 |
| 298 | 6.79 | 34.045 | 1.90 | | 250 | 7.35 | 34.03 | 2.11 | | 26.63 | 145.9 | .539 |
| 393 | 5.97 | 34.092 | 1.17 | | 300 | 6.77 | 34.05 | 1.88 | | 26.73 | 137.7 | .610 |
| 496 | 5.28 | 34.177 | .72 | | 400 | 5.92 | 34.10 | 1.13 | | 26.88 | 124.3 | .741 |
| 599 | 4.59 | 34.200 | .49 | | 500 | 5.25 | 34.18 | .71 | | 27.02 | 110.6 | .858 |
| 801 | 3.90 | 34.324 | .28 | | 600 | 4.59 | 34.20 | .49 | | 27.12 | 102.5 | .964 |
| 1004 | 3.49 | 34.405 | .42 | | 700 | 4.17 | 34.26 | .34 | | 27.21 | 94.0 | 1.063 |
| | | | | | 800 | 3.90 | 34.32 | .28 | | 27.29 | 86.8 | 1.153 |
| | | | | | 1000 | 3.50 | 34.40 | .41 | | 27.39 | 77.8 | 1.317 |
| CH 65 43 20.5 N 125 51.6 W DATE 6 FEB 64 0318 GCT WIRE 11 DRY 47.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 26 KTS BAR 32 SWELL DIRECTION 02 H 10 T 7 CLOUD 6 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.26 | 32.531 | 6.40 | | 0 | 10.26 | 32.54 | 6.41 | | 25.01 | 296.3 | 0 |
| 11 | 10.26 | 32.535 | 6.39 | | 10 | 10.26 | 32.53 | 6.39 | | 25.01 | 296.5 | .030 |
| 31 | 10.28 | 32.538 | | | 20 | 10.27 | 32.53 | 6.35 | | 25.01 | 297.3 | .059 |
| 52 | 10.27 | 32.603 | 6.22 | | 30 | 10.28 | 32.53 | 6.31 | | 25.00 | 297.6 | .089 |
| 79 | 9.38 | 33.403 | 4.01 | | 50 | 10.27 | 32.58 | 6.28 | | 25.05 | 293.8 | .148 |
| 107 | 9.08 | 33.737 | 3.15 | | 75 | 9.52 | 33.35 | 4.35 | | 25.77 | 225.3 | .213 |
| 154 | 8.42 | 33.904 | 2.67 | | 100 | 9.13 | 33.71 | 3.28 | | 26.12 | 193.0 | .265 |
| 206 | 7.77 | 34.000 | 2.27 | | 150 | 8.48 | 33.90 | 2.69 | | 26.36 | 170.4 | .356 |
| 308 | 6.57 | 34.054 | 1.71 | | 200 | 7.84 | 33.99 | 2.31 | | 26.53 | 154.9 | .437 |
| 410 | 5.86 | 34.109 | 1.05 | | 250 | 7.22 | 34.03 | 2.02 | | 26.65 | 143.8 | .512 |
| 517 | 5.28 | 34.180 | .64 | | 300 | 6.65 | 34.05 | 1.75 | | 26.75 | 135.6 | .582 |
| 619 | 4.74 | 34.234 | .40 | | 400 | 5.92 | 34.10 | 1.11 | | 26.88 | 123.9 | .712 |
| 817 | 4.12 | 34.363 | .38 | | 500 | 5.37 | 34.17 | .69 | | 27.00 | 112.7 | .830 |
| 1014 | 3.50 | 34.428 | .30 | | 600 | 4.83 | 34.22 | .43 | | 27.11 | 103.7 | .938 |
| 1210 | 3.06 | 34.481 | .46 | | 700 | 4.45 | 34.29 | .39 | | 27.20 | 95.0 | 1.037 |
| | | | | | 800 | 4.16 | 34.35 | .38 | | 27.28 | 87.6 | 1.129 |
| | | | | | 1000 | 3.54 | 34.42 | .30 | | 27.40 | 76.8 | 1.293 |
| | | | | | 1200 | 3.08 | 34.48 | .45 | | 27.49 | 68.5 | 1.438 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 45 43 20.5 N 125 24.1 W DATE 6 FEB 64 0815 GCT WIRE 12 DRY 48.0 WET 43.5 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 22 KTS BAR 30 SWELL DIRECTION 02 H 8 T 7 CLOUD 6 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.29 | 32.604 | 6.38 | | 0 | 10.29 | 32.61 | 6.39 | | 25.06 | 291.4 | 0 |
| 11 | 10.31 | 32.603 | 6.37 | | 10 | 10.31 | 32.60 | 6.37 | | 25.06 | 292.2 | .029 |
| 21 | 10.35 | 32.607 | 6.35 | | 20 | 10.35 | 32.61 | 6.35 | | 25.05 | 292.8 | .058 |
| 31 | 10.30 | 32.602 | 6.38 | | 30 | 10.31 | 32.60 | 6.38 | | 25.06 | 292.6 | .088 |
| 51 | 10.31 | 32.612 | 6.33 | | 50 | 10.31 | 32.60 | 6.35 | | 25.06 | 292.8 | .146 |
| 77 | 9.64 | 33.533 | 3.77 | | 75 | 9.70 | 33.46 | 3.98 | | 25.82 | 220.5 | .210 |
| 102 | 9.08 | 33.754 | 3.06 | | 100 | 9.12 | 33.75 | 3.08 | | 26.15 | 190.1 | .262 |
| 150 | 8.57 | 33.912 | 2.49 | | 150 | 8.57 | 33.92 | 2.49 | | 26.36 | 170.4 | .352 |
| 201 | 7.93 | 34.008 | 2.27 | | 200 | 7.94 | 34.01 | 2.27 | | 26.53 | 155.3 | .433 |
| 301 | 6.84 | 34.060 | 1.74 | | 250 | 7.37 | 34.05 | 2.02 | | 26.64 | 145.1 | .508 |
| 404 | 5.88 | 34.092 | 1.18 | | 300 | 6.85 | 34.06 | 1.75 | | 26.73 | 137.7 | .579 |
| 512 | 5.32 | 34.158 | .70 | | 400 | 5.91 | 34.09 | 1.20 | | 26.87 | 124.8 | .710 |
| 616 | 4.86 | 34.222 | .48 | | 500 | 5.37 | 34.15 | .74 | | 26.99 | 114.1 | .830 |
| 821 | 4.15 | 34.323 | .28 | | 600 | 4.93 | 34.21 | .50 | | 27.09 | 105.7 | .939 |
| 1025 | 3.60 | 34.430 | .36 | | 700 | 4.54 | 34.27 | .36 | | 27.17 | 97.9 | 1.041 |
| | | | | | 800 | 4.21 | 34.31 | .29 | | 27.24 | 91.1 | 1.136 |
| | | | | | 1000 | 3.66 | 34.42 | .34 | | 27.38 | 78.8 | 1.305 |
| CH 35 43 20.5 N 125 10.4 W DATE 6 FEB 64 1141 GCT WIRE 31 DRY 47.5 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 22 KTS BAR 29 SWELL DIRECTION 02 H 10 T 6 CLOUD 4 AMT 4 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.18 | 32.536 | 6.42 | | 0 | 10.18 | 32.54 | 6.43 | | 25.03 | 294.7 | 0 |
| 11 | 10.17 | 32.525 | 6.39 | | 10 | 10.17 | 32.53 | 6.39 | | 25.02 | 295.7 | .030 |
| 21 | 10.21 | 32.529 | 6.40 | | 20 | 10.21 | 32.53 | 6.40 | | 25.02 | 296.3 | .059 |
| 31 | 10.18 | 32.526 | 6.38 | | 30 | 10.18 | 32.53 | 6.38 | | 25.02 | 296.2 | .089 |
| 52 | 0 | 32.582 | | | 50 | 10.26 | 32.57 | 6.22 | | 25.04 | 294.3 | .148 |
| 64 | 10.32 | 32.647 | 6.10 | | 75 | 9.87 | 32.97 | 5.24 | | 25.42 | 259.2 | .217 |
| 87 | 9.31 | 33.381 | 4.22 | | 100 | 8.93 | 33.61 | 3.60 | | 26.07 | 197.7 | .274 |
| 129 | 8.41 | 33.861 | 2.86 | | 150 | 8.27 | 33.93 | 2.59 | | 26.42 | 164.5 | .365 |
| 172 | 8.18 | 33.955 | 2.46 | | 200 | 7.84 | 33.98 | 2.31 | | 26.53 | 155.5 | .445 |
| 258 | 7.05 | 34.007 | 2.11 | | 250 | 7.17 | 34.01 | 2.13 | | 26.64 | 145.2 | .520 |
| 342 | 6.31 | 34.030 | 1.75 | | 300 | 6.65 | 34.02 | 1.92 | | 26.72 | 138.1 | .591 |
| 432 | 5.73 | 34.101 | 1.59 | | 400 | 5.91 | 34.07 | 1.62 | | 26.86 | 126.3 | .723 |
| CH 25 43 20.5 N 124 56.7 W DATE 6 FEB 64 1530 GCT WIRE 14 DRY 47.0 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 04 VEL 18 KTS BAR 29 SWELL DIRECTION 02 H 8 T 7 CLOUD 4 AMT 2 WEATHER 01 | | | | | | | | | | | | |
| 0 | 10.50 | 32.431 | 6.44 | | 0 | 10.50 | 32.44 | 6.44 | | 24.89 | 307.6 | 0 |
| 10 | 10.50 | 32.428 | 6.31 | | 10 | 10.50 | 32.43 | 6.32 | | 24.89 | 308.0 | .031 |
| 20 | 10.52 | 32.430 | 6.37 | | 20 | 10.52 | 32.43 | 6.38 | | 24.89 | 308.3 | .062 |
| 30 | 10.53 | 32.449 | 6.46 | | 30 | 10.53 | 32.45 | 6.46 | | 24.90 | 307.3 | .092 |
| 50 | 10.38 | 32.517 | 6.42 | | 50 | 10.38 | 32.52 | 6.43 | | 24.98 | 300.1 | .153 |
| 75 | 9.98 | 33.314 | 4.48 | | 75 | 9.98 | 33.32 | 4.48 | | 25.67 | 235.2 | .220 |
| 102 | 9.27 | 33.573 | 3.80 | | 100 | 9.32 | 33.57 | 3.82 | | 25.97 | 207.0 | .275 |
| 150 | 8.40 | 33.899 | 2.86 | | 150 | 8.40 | 33.90 | 2.86 | | 26.38 | 168.8 | .369 |
| 205 | 7.92 | 33.973 | 2.43 | | 200 | 7.95 | 33.97 | 2.45 | | 26.50 | 158.5 | .451 |
| 308 | 6.80 | 34.041 | 1.75 | | 250 | 7.43 | 34.02 | 2.11 | | 26.61 | 147.9 | .528 |
| 404 | 6.01 | 34.083 | 1.26 | | 300 | 6.89 | 34.06 | 1.80 | | 26.72 | 138.5 | .599 |
| 502 | 5.55 | 34.135 | .85 | | 400 | 6.04 | 34.08 | 1.28 | | 26.85 | 127.0 | .732 |
| 601 | 4.95 | 34.206 | .55 | | 500 | 5.56 | 34.13 | .86 | | 26.95 | 117.7 | .854 |
| | | | | | 600 | 4.96 | 34.21 | .55 | | 27.08 | 106.6 | .966 |
| CH 15 43 20.5 N 124 43.1 W DATE 6 FEB 64 1743 GCT WIRE 9 DRY 45.0 WET 40.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 20 KTS BAR SWELL DIRECTION 02 H 8 T 7 CLOUD 4 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.32 | 32.131 | 6.38 | | 0 | 10.32 | 32.14 | 6.39 | | 24.69 | 326.9 | 0 |
| 10 | 10.31 | 32.139 | 6.39 | | 10 | 10.31 | 32.14 | 6.40 | | 24.70 | 326.3 | .033 |
| 20 | 10.33 | 32.125 | 6.42 | | 20 | 10.33 | 32.13 | 6.43 | | 24.68 | 327.8 | .065 |
| 30 | 10.35 | 32.145 | 6.43 | | 30 | 10.35 | 32.15 | 6.44 | | 24.70 | 326.8 | .098 |
| 50 | 10.64 | 32.577 | 6.23 | | 50 | 10.64 | 32.58 | 6.23 | | 24.98 | 300.0 | .161 |
| 77 | 10.48 | 32.823 | 5.60 | | 75 | 10.52 | 32.80 | 5.67 | | 25.18 | 282.0 | .233 |
| 105 | 9.34 | 33.568 | 3.90 | | 100 | 9.56 | 33.43 | 4.21 | | 25.83 | 220.5 | .296 |
| 155 | 8.57 | 33.855 | 2.91 | | 150 | 8.61 | 33.83 | 2.94 | | 26.29 | 177.6 | .396 |
| 211 | 7.87 | 33.981 | 2.43 | | 200 | 7.99 | 33.97 | 2.47 | | 26.49 | 158.6 | .480 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 5 | 43 20.5 N | 124 29.0 W | DATE 6 FEB 64 | 1943 GCT | WIRE 4 | DRY 44.5 | WET 39.5 | | | | | |
| WIND DIRECTION 03 VEL 15 KTS | | | BAR 28 SWELL DIRECTION 03 H | 5 T | 7 CLOUD | 3 AMT | 2 WEATHER 02 | | | | | |
| 0 | 10.13 | 32.050 | 6.49 | | 0 | 10.13 | 32.05 | 6.49 | | 24.66 | 329.9 | 0 |
| 10 | 10.68 | 32.398 | 6.25 | | 10 | 10.68 | 32.40 | 6.26 | | 24.84 | 313.2 | .032 |
| 20 | 10.69 | 32.481 | 6.28 | | 20 | 10.69 | 32.49 | 6.29 | | 24.90 | 307.4 | .063 |
| 30 | 10.70 | 32.525 | 6.25 | | 30 | 10.70 | 32.53 | 6.26 | | 24.93 | 304.5 | .094 |
| 50 | 10.60 | 32.616 | 6.22 | | 50 | 10.60 | 32.62 | 6.22 | | 25.02 | 296.4 | .154 |
| 77 | 10.40 | 33.099 | 4.85 | | 75 | 10.42 | 33.05 | 5.00 | | 25.39 | 262.2 | .224 |
| CH 5 | 43 20.5 N | 124 29.0 W | DATE 10 APR 64 | 0740 GCT | WIRE 2 | DRY 50.0 | WET 45.0 | | | | | |
| WIND DIRECTION 34 VEL 3 KTS | | | BAR 27 SWELL DIRECTION 28 H | 4 T | 6 CLOUD | 6 AMT | 6 WEATHER 00 | | | | | |
| 0 | 9.71 | 31.671 | 6.83 | | 0 | 9.71 | 31.68 | 6.83 | | 24.43 | 351.4 | 0 |
| 10 | 9.60 | 31.672 | 7.08 | | 10 | 9.60 | 31.68 | 7.08 | | 24.45 | 349.8 | .035 |
| 20 | 9.44 | 31.741 | 7.41 | | 20 | 9.44 | 31.75 | 7.42 | | 24.53 | 342.4 | .070 |
| 30 | 8.76 | 32.604 | 4.66 | | 30 | 8.76 | 32.61 | 4.66 | | 25.31 | 268.3 | .100 |
| 50 | 8.26 | 33.767 | 2.64 | | 50 | 8.26 | 33.77 | 2.65 | | 26.30 | 175.0 | .145 |
| 77 | 7.83 | 33.951 | 2.22 | | 75 | 7.85 | 33.94 | 2.25 | | 26.49 | 157.2 | .186 |
| CH 15 | 43 20.5 N | 124 43.1 W | DATE 10 APR 64 | 1016 GCT | WIRE 6 | DRY 50.0 | WET 45.0 | | | | | |
| WIND DIRECTION 29 VEL 9 KTS | | | BAR 27 SWELL DIRECTION 27 H | 8 T | 7 CLOUD | 6 AMT | 7 WEATHER 03 | | | | | |
| 0 | 9.54 | 31.690 | 6.92 | | 0 | 9.54 | 31.69 | 6.93 | | 24.48 | 347.4 | 0 |
| 10 | 9.56 | 31.709 | 6.83 | | 10 | 9.56 | 31.71 | 6.83 | | 24.49 | 346.4 | .035 |
| 20 | 9.51 | 31.813 | 6.77 | | 20 | 9.51 | 31.82 | 6.78 | | 24.58 | 338.1 | .069 |
| 50 | 9.03 | 32.602 | 5.41 | | 30 | 9.36 | 32.02 | 6.44 | | 24.76 | 320.6 | .102 |
| 75 | 8.90 | 33.436 | 3.93 | | 50 | 9.03 | 32.61 | 5.42 | | 25.27 | 272.8 | .161 |
| 100 | 8.18 | 33.944 | 2.80 | | 75 | 8.90 | 33.44 | 3.93 | | 25.94 | 209.3 | .221 |
| 150 | 7.41 | 33.994 | 2.26 | | 100 | 8.18 | 33.95 | 2.80 | | 26.45 | 161.4 | .268 |
| 200 | 6.96 | 34.014 | 2.15 | | 150 | 7.42 | 34.00 | 2.27 | | 26.60 | 147.6 | .345 |
| | | | | | 200 | 6.96 | 34.01 | 2.15 | | 26.67 | 141.1 | .417 |
| CH 25 | 43 21.1 N | 124 56.3 W | DATE 10 APR 64 | 1451 GCT | WIRE 1 | DRY 49.0 | WET 44.0 | | | | | |
| WIND DIRECTION C VEL - KTS | | | BAR 28 SWELL DIRECTION 28 H | 5 T | 8 CLOUD | 7 AMT | 7 WEATHER 02 | | | | | |
| 0 | 9.73 | 32.061 | 6.69 | | 0 | 9.73 | 32.07 | 6.69 | | 24.73 | 322.8 | 0 |
| 10 | 9.79 | 32.079 | | | 10 | 9.79 | 32.08 | 6.66 | | 24.74 | 322.5 | .032 |
| 20 | 9.81 | 32.148 | 6.65 | | 20 | 9.81 | 32.15 | 6.66 | | 24.79 | 317.9 | .064 |
| 30 | 9.75 | 32.201 | 6.64 | | 30 | 9.75 | 32.21 | 6.65 | | 24.84 | 313.2 | .096 |
| 50 | 9.28 | 32.569 | 6.29 | | 50 | 9.28 | 32.57 | 6.30 | | 25.20 | 279.0 | .155 |
| 77 | 9.15 | 33.152 | 4.32 | | 75 | 9.16 | 33.11 | 4.48 | | 25.64 | 237.8 | .220 |
| 105 | 8.62 | 33.682 | 3.28 | | 100 | 8.73 | 33.60 | 3.41 | | 26.09 | 195.4 | .274 |
| 154 | 7.75 | 34.014 | 2.65 | | 150 | 7.81 | 34.01 | 2.67 | | 26.55 | 152.6 | .361 |
| 210 | 7.08 | 34.022 | 2.12 | | 200 | 7.18 | 34.02 | 2.20 | | 26.65 | 143.6 | .435 |
| 306 | 6.20 | 34.041 | 1.46 | | 250 | 6.69 | 34.03 | 1.82 | | 26.72 | 137.2 | .505 |
| 401 | 5.43 | 34.085 | .97 | | 300 | 6.25 | 34.04 | 1.49 | | 26.79 | 131.3 | .572 |
| 493 | 4.97 | 34.202 | .62 | | 400 | 5.44 | 34.08 | .97 | | 26.93 | 119.3 | .697 |
| 581 | 4.62 | 34.235 | .30 | | 500 | 4.94 | 34.21 | .60 | | 27.08 | 104.6 | .809 |
| | | | | | 600 | 4.54 | 34.23 | .34 | | 27.14 | 99.7 | .911 |
| CH 35 | 43 20.5 N | 125 10.4 W | DATE 10 APR 64 | 1718 GCT | WIRE - | DRY 49.0 | WET 45.0 | | | | | |
| WIND DIRECTION 20 VEL 5 KTS | | | BAR 28 SWELL DIRECTION 28 H | 5 T | 8 CLOUD | 6 AMT | 8 WEATHER 03 | | | | | |
| 0 | 9.75 | 32.168 | 6.69 | | 0 | 9.75 | 32.17 | 6.69 | | 24.81 | 315.2 | 0 |
| 10 | 9.73 | 32.172 | 6.67 | | 10 | 9.73 | 32.18 | 6.68 | | 24.82 | 314.7 | .031 |
| 30 | 9.53 | 32.451 | 6.65 | | 20 | 9.65 | 32.30 | 6.65 | | 24.93 | 304.4 | .062 |
| 50 | 9.15 | 32.538 | 6.70 | | 30 | 9.53 | 32.46 | 6.66 | | 25.07 | 291.2 | .092 |
| 76 | 9.18 | 32.609 | | | 50 | 9.15 | 32.54 | 6.70 | | 25.20 | 279.3 | .149 |
| 101 | 8.57 | 33.481 | 4.04 | | 75 | 9.18 | 32.60 | 5.57 | | 25.24 | 275.9 | .219 |
| 151 | 7.91 | 33.899 | 2.69 | | 100 | 8.60 | 33.44 | 4.11 | | 25.99 | 205.0 | .279 |
| 204 | 7.46 | 33.980 | 2.18 | | 150 | 7.92 | 33.89 | 2.71 | | 26.44 | 162.7 | .371 |
| 254 | 6.71 | 34.020 | 1.88 | | 200 | 7.50 | 33.97 | 2.20 | | 26.57 | 151.4 | .449 |
| 303 | 6.22 | 34.031 | 1.53 | | 250 | 6.77 | 34.02 | 1.90 | | 26.70 | 139.0 | .522 |
| 402 | 5.59 | 34.067 | 1.17 | | 300 | 6.24 | 34.03 | 1.55 | | 26.78 | 131.9 | .589 |
| 503 | 4.94 | 34.139 | .60 | | 400 | 5.60 | 34.07 | 1.18 | | 26.89 | 122.7 | .717 |
| 602 | 4.59 | 34.227 | .34 | | 500 | 4.96 | 34.14 | .62 | | 27.02 | 110.1 | .833 |
| 802 | 3.99 | 34.370 | .27 | | 600 | 4.60 | 34.23 | .36 | | 27.13 | 100.8 | .938 |
| 998 | 3.40 | 34.471 | .44 | | 700 | 4.29 | 34.30 | .32 | | 27.23 | 92.1 | 1.035 |
| | | | | | 800 | 4.00 | 34.37 | .27 | | 27.31 | 84.5 | 1.123 |
| | | | | | 1000 | 3.39 | 34.47 | .44 | | 27.45 | 71.6 | 1.279 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 45 43 20.4 N 125 24.1 W DATE 10 APR 64 2051 GCT WIRE 2 DRY 51.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 8 KTS BAR 26 SWELL DIRECTION 28 H 5 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.85 | 32.055 | | | 0 | 9.85 | 32.06 | | | 24.71 | 325.1 | 0 |
| 10 | 9.76 | 32.081 | 6.67 | | 10 | 9.76 | 32.09 | 6.68 | | 24.75 | 321.9 | .032 |
| 30 | 9.73 | 32.483 | | | 20 | 9.74 | 32.28 | 7.67 | | 24.90 | 307.6 | .064 |
| 50 | 9.24 | 32.592 | 6.55 | | 30 | 9.73 | 32.50 | 7.30 | | 25.07 | 291.2 | .094 |
| 76 | 9.03 | 32.814 | 5.53 | | 50 | 9.24 | 32.60 | 6.56 | | 25.23 | 276.7 | .151 |
| 101 | 8.36 | 33.533 | 3.86 | | 75 | 9.04 | 32.80 | 5.63 | | 25.42 | 258.9 | .217 |
| 151 | 7.82 | 33.829 | 3.25 | | 100 | 8.39 | 33.49 | 3.93 | | 26.06 | 198.2 | .275 |
| 204 | 7.31 | 33.966 | 2.33 | | 150 | 7.83 | 33.82 | 3.26 | | 26.40 | 166.4 | .366 |
| 254 | 6.76 | 34.017 | 2.04 | | 200 | 7.35 | 33.96 | 2.39 | | 26.58 | 150.3 | .445 |
| 303 | 6.39 | 34.030 | 1.68 | | 250 | 6.80 | 34.02 | 2.05 | | 26.70 | 139.7 | .517 |
| 402 | 5.51 | 34.067 | 1.14 | | 300 | 6.41 | 34.03 | 1.70 | | 26.76 | 134.2 | .586 |
| 504 | 5.11 | 34.167 | .64 | | 400 | 5.53 | 34.10 | 1.15 | | 26.92 | 119.6 | .713 |
| 603 | 4.70 | 34.237 | .38 | | 500 | 5.12 | 34.16 | .66 | | 27.03 | 110.0 | .827 |
| 806 | 3.98 | 34.346 | .33 | | 600 | 4.71 | 34.23 | .39 | | 27.13 | 101.5 | .933 |
| 1004 | 3.45 | 34.472 | .39 | | 700 | 4.33 | 34.29 | .36 | | 27.21 | 93.6 | 1.030 |
| | | | | | 800 | 4.00 | 34.34 | .33 | | 27.29 | 86.4 | 1.120 |
| | | | | | 1000 | 3.46 | 34.47 | .39 | | 27.45 | 72.5 | 1.279 |
| CH 65 43 20.4 N 125 52.0 W DATE 11 APR 64 0043 GCT WIRE 4 DRY 51.8 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 10 KTS BAR 24 SWELL DIRECTION 28 H 5 T 8 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.92 | 32.500 | 6.64 | | 0 | 9.92 | 32.50 | 6.65 | | 25.05 | 293.2 | 0 |
| 10 | 9.92 | 32.518 | 6.62 | | 10 | 9.92 | 32.52 | 6.63 | | 25.06 | 292.0 | .029 |
| 30 | 9.86 | 32.506 | 6.58 | | 20 | 9.91 | 32.51 | 6.62 | | 25.05 | 292.9 | .058 |
| 50 | 9.62 | 32.590 | 6.28 | | 30 | 9.86 | 32.61 | 6.58 | | 25.06 | 292.3 | .088 |
| 76 | 9.55 | 33.019 | 4.89 | | 50 | 9.63 | 32.59 | 6.29 | | 25.16 | 282.6 | .145 |
| 102 | 8.98 | 33.631 | 3.42 | | 75 | 9.55 | 33.00 | 4.95 | | 25.49 | 252.1 | .212 |
| 152 | 8.23 | 33.904 | 2.59 | | 100 | 9.03 | 33.59 | 3.52 | | 26.03 | 200.9 | .269 |
| 205 | 7.75 | 34.006 | 2.34 | | 150 | 8.25 | 33.89 | 2.59 | | 26.39 | 167.4 | .361 |
| 255 | 7.04 | 34.043 | 2.01 | | 200 | 7.79 | 34.00 | 2.35 | | 26.55 | 153.5 | .441 |
| 304 | 6.68 | 34.049 | 1.79 | | 250 | 7.11 | 34.04 | 2.04 | | 26.68 | 141.8 | .515 |
| 402 | 5.56 | 34.159 | 1.38 | | 300 | 6.71 | 34.05 | 1.81 | | 26.74 | 136.7 | .584 |
| 502 | 5.01 | 34.193 | .77 | | 400 | 5.58 | 34.16 | 1.39 | | 26.96 | 115.7 | .710 |
| 601 | 4.86 | 34.213 | .42 | | 500 | 5.02 | 34.19 | .78 | | 27.06 | 106.6 | .822 |
| 812 | 4.06 | 34.373 | .28 | | 600 | 4.86 | 34.21 | .42 | | 27.09 | 104.9 | .927 |
| 1002 | 3.52 | 34.420 | .36 | | 700 | 4.51 | 34.29 | .29 | | 27.19 | 96.0 | 1.028 |
| | | | | | 800 | 4.11 | 34.36 | .29 | | 27.30 | 86.2 | 1.119 |
| | | | | | 1000 | 3.52 | 34.42 | .36 | | 27.40 | 76.9 | 1.282 |
| CH 85 43 20.5 N 126 18.8 W DATE 11 APR 64 0442 GCT WIRE - DRY 52.0 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 16 KTS BAR 23 SWELL DIRECTION 28 H 5 T 9 CLOUD 7 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.99 | 32.484 | 6.65 | | 0 | 9.99 | 32.49 | 6.66 | | 25.02 | 295.5 | 0 |
| 10 | 9.97 | 32.473 | 6.65 | | 10 | 9.97 | 32.48 | 6.66 | | 25.02 | 296.2 | .030 |
| 30 | 9.90 | 32.483 | 6.67 | | 20 | 9.95 | 32.48 | 6.66 | | 25.02 | 295.9 | .059 |
| 50 | 9.61 | 32.601 | 6.63 | | 30 | 9.90 | 32.49 | 6.68 | | 25.04 | 294.6 | .089 |
| 76 | 9.06 | 32.997 | 5.08 | | 50 | 9.61 | 32.61 | 6.64 | | 25.17 | 281.7 | .146 |
| 101 | 9.16 | 33.696 | 3.32 | | 75 | 9.08 | 32.98 | 5.16 | | 25.55 | 246.4 | .212 |
| 151 | 8.19 | 33.862 | 2.67 | | 100 | 9.15 | 33.67 | 3.38 | | 26.08 | 196.6 | .268 |
| 205 | 7.47 | 33.977 | 2.30 | | 150 | 8.22 | 33.86 | 2.68 | | 26.37 | 169.4 | .359 |
| 254 | 6.97 | 34.040 | 1.92 | | 200 | 7.53 | 33.97 | 2.33 | | 26.56 | 152.2 | .440 |
| 304 | 6.71 | 34.068 | 1.99 | | 250 | 7.00 | 34.04 | 1.94 | | 26.69 | 140.8 | .513 |
| 403 | 5.87 | 34.162 | 1.27 | | 300 | 6.73 | 34.07 | 1.98 | | 26.75 | 135.6 | .582 |
| 505 | 5.21 | 34.202 | .70 | | 400 | 5.90 | 34.10 | 1.30 | | 26.88 | 123.8 | .711 |
| 604 | 4.76 | 34.233 | .47 | | 500 | 5.24 | 34.20 | .72 | | 27.04 | 109.0 | .828 |
| 807 | 4.06 | 34.345 | .29 | | 600 | 4.78 | 34.23 | .48 | | 27.12 | 102.4 | .934 |
| 1006 | 3.54 | 34.414 | .32 | | 700 | 4.40 | 34.28 | .35 | | 27.20 | 94.7 | 1.032 |
| | | | | | 800 | 4.08 | 34.34 | .29 | | 27.28 | 87.5 | 1.123 |
| | | | | | 1000 | 3.55 | 34.41 | .32 | | 27.39 | 77.8 | 1.288 |
| CH 105 43 20.4 N 126 45.8 W DATE 11 APR 64 1103 GCT WIRE 5 DRY 48.5 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 14 KTS BAR 22 SWELL DIRECTION 28 H 6 T 8 CLOUD 8 AMT 3 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.90 | 32.469 | 6.59 | | 0 | 9.90 | 32.47 | 6.59 | | 25.02 | 295.2 | 0 |
| 10 | 9.89 | 32.473 | 6.62 | | 10 | 9.89 | 32.48 | 6.63 | | 25.03 | 294.9 | .029 |
| 30 | 9.93 | 32.469 | 6.55 | | 20 | 9.92 | 32.47 | 6.59 | | 25.02 | 296.0 | .059 |
| 50 | 9.68 | 32.519 | 6.58 | | 30 | 9.93 | 32.47 | 6.56 | | 25.02 | 296.1 | .089 |
| 76 | 9.18 | 32.525 | | | 50 | 9.68 | 32.52 | 6.58 | | 25.10 | 288.8 | .147 |
| 101 | 9.23 | 33.525 | 3.79 | | 75 | 9.20 | 32.61 | 5.36 | | 25.25 | 275.1 | .218 |
| 152 | 8.28 | 33.883 | 2.91 | | 100 | 9.23 | 33.49 | 3.86 | | 25.92 | 211.3 | .278 |
| 204 | 7.64 | 33.979 | 2.43 | | 150 | 8.33 | 33.87 | 2.83 | | 26.36 | 170.3 | .374 |
| 253 | 6.95 | 34.013 | 1.89 | | 200 | 7.69 | 33.98 | 2.45 | | 26.54 | 153.8 | .455 |
| 302 | 6.44 | 34.005 | 1.73 | | 250 | 6.99 | 34.01 | 1.92 | | 26.67 | 142.5 | .529 |
| 401 | 5.67 | 34.111 | 1.04 | | 300 | 6.46 | 34.09 | 1.73 | | 26.80 | 130.2 | .597 |
| 502 | 5.14 | 34.162 | .71 | | 400 | 5.68 | 34.11 | 1.05 | | 26.92 | 120.3 | .722 |
| 600 | 4.58 | 34.204 | .53 | | 500 | 5.15 | 34.16 | .71 | | 27.02 | 110.6 | .838 |
| 799 | 3.99 | 34.332 | .27 | | 600 | 4.58 | 34.21 | .54 | | 27.12 | 101.9 | .944 |
| | | | | | 700 | 4.19 | 34.26 | .38 | | 27.21 | 94.0 | 1.042 |
| | | | | | 800 | 3.99 | 34.33 | .27 | | 27.28 | 87.1 | 1.132 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 125 43 20.5 N 127 14.2 W DATE 11 APR 64 1555 GCT WIRE 6 DRY 49.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 14 KTS BAR 25 SWELL DIRECTION 28 H 8 T 9 CLOUD 8 AMT 5 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.77 | 32.647 | 6.53 | | 0 | 9.77 | 32.65 | 6.54 | | 25.18 | 280.0 | 0 |
| 10 | 9.76 | 32.649 | 6.52 | | 10 | 9.76 | 32.69 | 6.53 | | 25.22 | 276.9 | .028 |
| 30 | 9.79 | 32.674 | 6.51 | | 20 | 9.78 | 32.68 | 6.51 | | 25.21 | 278.0 | .056 |
| 50 | 9.68 | 32.746 | 6.52 | | 30 | 9.79 | 32.68 | 6.52 | | 25.20 | 278.8 | .083 |
| 77 | 9.99 | 32.917 | 6.29 | | 50 | 9.69 | 32.75 | 6.53 | | 25.28 | 272.0 | .138 |
| 102 | 9.12 | 33.379 | 4.29 | | 75 | 9.98 | 32.80 | 6.34 | | 25.27 | 273.3 | .207 |
| 155 | 8.10 | 33.813 | 3.25 | | 100 | 9.21 | 33.33 | 4.46 | | 25.80 | 222.6 | .269 |
| 204 | 7.61 | | 2.38 | | 150 | 8.16 | 33.80 | 3.25 | | 26.33 | 173.0 | .367 |
| 254 | 6.98 | 34.007 | 2.17 | | 200 | 7.64 | 33.96 | 2.44 | | 26.53 | 154.9 | .449 |
| 305 | 6.56 | 34.041 | 1.85 | | 250 | 7.03 | 34.00 | 2.18 | | 26.65 | 143.9 | .524 |
| 406 | 5.85 | 34.106 | 1.08 | | 300 | 6.60 | 34.08 | 1.88 | | 26.77 | 133.2 | .593 |
| 507 | 5.30 | 34.161 | .72 | | 400 | 5.89 | 34.10 | 1.12 | | 26.89 | 123.4 | .722 |
| 608 | 4.79 | 34.230 | .48 | | 500 | 5.33 | 34.16 | .74 | | 26.99 | 113.2 | .840 |
| 811 | 4.02 | 34.329 | .26 | | 600 | 4.83 | 34.22 | .50 | | 27.10 | 104.3 | .949 |
| 1014 | 3.56 | 34.418 | .31 | | 700 | 4.40 | 34.27 | .34 | | 27.19 | 95.7 | 1.049 |
| | | | | | 800 | 4.05 | 34.32 | .26 | | 27.27 | 88.5 | 1.141 |
| | | | | | 1000 | 3.58 | 34.41 | .30 | | 27.39 | 78.2 | 1.307 |
| CH 145 43 20.4 N 127 40.0 W DATE 11 APR 64 2045 GCT WIRE 7 DRY 50.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 18 KTS BAR 27 SWELL DIRECTION 28 H 9 T 9 CLOUD 8 AMT 4 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.03 | 32.712 | 6.55 | | 0 | 10.03 | 32.72 | 6.56 | | 25.19 | 279.2 | 0 |
| 10 | 10.01 | 32.702 | 6.57 | | 10 | 10.01 | 32.71 | 6.57 | | 25.19 | 279.8 | .028 |
| 30 | 10.00 | 32.717 | 6.60 | | 20 | 10.00 | 32.71 | 6.59 | | 25.19 | 279.8 | .056 |
| 50 | 9.86 | 32.724 | 6.60 | | 30 | 10.00 | 32.72 | 6.60 | | 25.20 | 278.9 | .084 |
| 77 | 9.87 | 32.807 | 6.38 | | 50 | 9.86 | 32.73 | 6.60 | | 25.23 | 276.5 | .139 |
| 100 | 9.17 | 33.009 | 5.48 | | 75 | 9.87 | 32.80 | 6.42 | | 25.28 | 272.0 | .208 |
| 152 | 8.04 | 33.794 | 3.37 | | 100 | 9.17 | 33.01 | 5.48 | | 25.56 | 245.5 | .273 |
| 201 | 7.56 | 33.949 | 2.76 | | 150 | 8.07 | 33.77 | 3.44 | | 26.32 | 174.2 | .377 |
| 250 | 6.95 | 34.042 | 2.33 | | 200 | 7.57 | 33.95 | 2.76 | | 26.54 | 154.2 | .460 |
| 301 | 6.38 | 34.013 | 1.87 | | 250 | 6.95 | 34.05 | 2.33 | | 26.70 | 139.3 | .533 |
| 402 | 5.76 | 34.077 | 1.16 | | 300 | 6.39 | 34.01 | 1.88 | | 26.75 | 135.1 | .602 |
| 503 | 5.20 | 34.155 | .71 | | 400 | 5.77 | 34.07 | 1.17 | | 26.88 | 124.1 | .731 |
| 604 | 4.79 | 34.209 | | | 500 | 5.22 | 34.15 | .72 | | 27.01 | 112.0 | .849 |
| 807 | 4.11 | 34.358 | .28 | | 600 | 4.80 | 34.21 | .46 | | 27.10 | 104.6 | .957 |
| 1011 | 3.53 | 34.440 | .37 | | 700 | 4.45 | 34.28 | .31 | | 27.19 | 95.6 | 1.057 |
| | | | | | 800 | 4.13 | 34.35 | .29 | | 27.29 | 87.2 | 1.149 |
| | | | | | 1000 | 3.56 | 34.44 | .36 | | 27.41 | 76.1 | 1.312 |
| CH 165 43 20.4 N 128 30.0 W DATE 12 APR 64 0223 GCT WIRE 5 DRY 49.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 17 KTS BAR SWELL DIRECTION 28 H 9 T 8 CLOUD 8 AMT 3 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.08 | 32.707 | | | 0 | 10.08 | 32.71 | | | 25.18 | 280.4 | 0 |
| 10 | 10.08 | 32.721 | | | 10 | 10.08 | 32.73 | | | 25.19 | 279.5 | .028 |
| 30 | 10.01 | 32.725 | | | 20 | 10.05 | 32.72 | | | 25.19 | 279.4 | .056 |
| 51 | 10.01 | 32.773 | | | 30 | 10.01 | 32.73 | | | 25.21 | 278.5 | .084 |
| 77 | 9.87 | 32.801 | | | 50 | 10.01 | 32.77 | | | 25.24 | 275.8 | .139 |
| 101 | 9.46 | 33.837 | | | 75 | 9.89 | 32.86 | | | 25.33 | 267.3 | .207 |
| 152 | 8.25 | | | | 100 | 9.48 | 33.78 | | | 26.11 | 193.3 | .265 |
| 202 | 7.82 | 33.920 | | | 150 | 8.29 | 33.87 | | | 26.37 | 169.5 | .355 |
| 302 | 6.84 | 34.053 | | | 200 | 7.83 | 33.92 | | | 26.48 | 160.2 | .438 |
| 403 | 5.50 | 34.123 | | | 250 | 7.38 | 33.99 | | | 26.59 | 149.8 | .515 |
| 502 | 5.05 | 34.179 | | | 300 | 6.86 | 34.05 | | | 26.72 | 138.6 | .587 |
| 602 | 4.73 | 34.238 | | | 400 | 5.54 | 34.12 | | | 26.94 | 117.8 | .715 |
| 802 | 4.08 | 34.341 | | | 500 | 5.05 | 34.18 | | | 27.04 | 108.2 | .828 |
| 1003 | 3.51 | 34.411 | | | 600 | 4.74 | 34.24 | | | 27.13 | 101.6 | .933 |
| | | | | | 700 | 4.41 | 34.29 | | | 27.21 | 94.3 | 1.031 |
| | | | | | 800 | 4.09 | 34.34 | | | 27.28 | 87.7 | 1.122 |
| | | | | | 1000 | 3.52 | 34.41 | | | 27.39 | 77.6 | 1.287 |
| CRH159 42 40.3 N 128 0.0 W DATE 12 APR 64 1035 GCT WIRE 4 DRY 50.0 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 15 KTS BAR 29 SWELL DIRECTION 29 H 12 T 8 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.31 | 32.787 | 6.51 | | 0 | 10.31 | 32.79 | 6.52 | | 25.20 | 278.2 | 0 |
| 10 | 10.31 | 32.745 | 6.54 | | 10 | 10.31 | 32.75 | 6.55 | | 25.17 | 281.5 | .028 |
| 30 | 10.30 | 32.746 | 6.56 | | 20 | 10.30 | 32.75 | 6.56 | | 25.17 | 281.8 | .056 |
| 50 | 9.98 | 32.764 | 6.52 | | 30 | 10.30 | 32.75 | 6.57 | | 25.17 | 281.6 | .084 |
| 76 | 9.79 | 32.838 | 6.02 | | 50 | 9.98 | 32.77 | 6.53 | | 25.24 | 275.4 | .140 |
| 100 | 9.55 | 33.157 | 4.89 | | 75 | 9.80 | 32.83 | 6.05 | | 25.32 | 268.2 | .208 |
| 149 | 8.23 | 33.815 | 3.36 | | 100 | 9.55 | 33.16 | 4.90 | | 25.62 | 240.4 | .271 |
| 206 | 7.57 | 34.012 | 2.74 | | 150 | 8.21 | 33.82 | 3.34 | | 26.34 | 172.1 | .375 |
| 252 | 7.02 | 34.064 | 2.26 | | 200 | 7.62 | 34.01 | 2.78 | | 26.58 | 150.3 | .455 |
| 301 | 6.44 | 34.075 | 1.85 | | 250 | 7.04 | 34.01 | 2.28 | | 26.66 | 143.6 | .529 |
| 400 | 5.56 | 34.101 | 1.08 | | 300 | 6.45 | 34.07 | 1.86 | | 26.79 | 131.4 | .597 |
| 503 | 5.24 | 34.103 | .70 | | 400 | 5.57 | 34.10 | 1.08 | | 26.92 | 120.0 | .723 |
| 602 | 4.82 | 34.217 | .50 | | 500 | 5.25 | 34.19 | .71 | | 27.03 | 109.6 | .838 |
| 805 | 4.19 | 34.409 | .34 | | 600 | 4.83 | 34.22 | .50 | | 27.10 | 104.2 | .945 |
| 1005 | 3.71 | 34.420 | .36 | | 700 | 4.49 | 34.31 | .39 | | 27.21 | 93.9 | 1.044 |
| | | | | | 800 | 4.20 | 34.40 | .34 | | 27.32 | 84.3 | 1.133 |
| | | | | | 1000 | 3.72 | 34.42 | .36 | | 27.38 | 79.2 | 1.296 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

BH 165 42 0.0 N 127 52.7 W DATE 12 APR 64 1710 GCT WIRE 3 DRY 51.0 WET 47.0
WIND DIRECTION 32 VEL 12 KTS BAR 32 SWELL DIRECTION 30 H 14 T 17 CLOUD 6 AMT 8 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.25 | 32.725 | 6.63 | 0 | 10.25 | 32.73 | 6.64 | | 25.14 | 281.8 | 0 |
| 10 | 10.25 | 32.716 | 6.58 | 10 | 10.25 | 32.72 | 6.58 | | 25.16 | 282.6 | .028 |
| 30 | 10.24 | 32.748 | 6.59 | 20 | 10.24 | 32.74 | 6.58 | | 25.18 | 281.1 | .056 |
| 51 | 9.85 | 32.714 | 6.57 | 30 | 10.24 | 32.77 | 6.59 | | 25.20 | 279.0 | .084 |
| 77 | | 33.335 | 4.33 | 50 | 9.87 | 32.72 | 6.59 | | 25.22 | 277.5 | .140 |
| 103 | 8.58 | 33.806 | 2.75 | 75 | 9.24 | 33.28 | 4.53 | | 25.76 | 226.6 | .203 |
| 151 | 8.19 | 33.978 | 2.10 | 100 | 8.65 | 33.76 | 2.89 | | 26.23 | 182.1 | .254 |
| 201 | 8.01 | 34.018 | 2.00 | 150 | 8.19 | 33.97 | 2.11 | | 26.47 | 160.5 | .340 |
| 301 | 7.44 | 34.032 | 1.86 | 200 | 8.01 | 34.02 | 2.00 | | 26.53 | 155.5 | .419 |
| 402 | 7.00 | 34.044 | 0 | 250 | 7.74 | 34.03 | 1.93 | | 26.58 | 151.5 | .495 |
| 500 | 6.16 | 34.070 | 1.30 | 300 | 7.45 | 34.03 | 1.86 | | 26.62 | 148.0 | .570 |
| 603 | 5.34 | 34.118 | .84 | 400 | 7.01 | 34.04 | 1.63 | | 26.69 | 142.8 | .716 |
| 805 | 4.32 | 34.369 | .28 | 500 | 6.17 | 34.08 | 1.30 | | 26.83 | 129.8 | .852 |
| 1009 | 3.78 | 34.404 | .32 | 600 | 5.36 | 34.12 | .85 | | 26.96 | 118.2 | .976 |
| | | | | 700 | 4.77 | 34.21 | .51 | | 27.10 | 104.9 | 1.087 |
| | | | | 800 | 4.34 | 34.30 | .29 | | 27.22 | 93.3 | 1.186 |
| | | | | 1000 | 3.79 | 34.40 | .31 | | 27.36 | 81.4 | 1.361 |

BH 145 42 0.0 N 127 46.2 W DATE 12 APR 64 2118 GCT WIRE 7 DRY 52.5 WET 48.0
WIND DIRECTION 33 VEL 14 KTS BAR 34 SWELL DIRECTION 30 H 14 T 14 CLOUD 6 AMT 9 WEATHER 03

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.36 | 32.688 | 6.66 | 0 | 10.36 | 32.69 | 6.67 | | 25.12 | 286.3 | 0 |
| 10 | 10.28 | 32.686 | 6.58 | 10 | 10.28 | 32.69 | 6.58 | | 25.13 | 285.3 | .029 |
| 30 | 10.02 | 32.745 | 6.60 | 20 | 10.16 | 32.71 | 6.58 | | 25.17 | 281.7 | .057 |
| 50 | 9.80 | 32.745 | 6.51 | 30 | 10.02 | 32.75 | 6.60 | | 25.22 | 277.1 | .085 |
| 70 | 9.11 | 33.301 | 4.46 | 50 | 9.80 | 32.75 | 6.52 | | 25.26 | 274.0 | .140 |
| 96 | 8.63 | 33.725 | 3.20 | 75 | 8.99 | 33.40 | 4.13 | | 25.90 | 213.3 | .201 |
| 142 | 8.26 | 33.906 | 2.46 | 100 | 8.58 | 33.76 | 3.09 | | 26.24 | 181.5 | .250 |
| 185 | 7.98 | 33.979 | 2.27 | 150 | 8.21 | 33.93 | 2.40 | | 26.43 | 164.3 | .337 |
| 225 | 7.68 | 33.997 | 2.16 | 200 | 7.87 | 33.99 | 2.23 | | 26.52 | 155.6 | .417 |
| 264 | 7.40 | 34.023 | 2.02 | 250 | 7.49 | 34.01 | 2.07 | | 26.60 | 149.3 | .493 |
| 341 | 7.10 | 34.089 | 1.62 | 300 | 7.26 | 34.06 | 1.84 | | 26.66 | 143.7 | .566 |
| 423 | 6.40 | 34.117 | 1.30 | 400 | 6.61 | 34.11 | 1.38 | | 26.80 | 132.4 | .704 |
| 505 | 5.82 | 34.150 | 1.00 | 500 | 5.85 | 34.15 | 1.02 | | 26.92 | 120.4 | .830 |
| 675 | 4.75 | 34.262 | .41 | 600 | 5.18 | 34.21 | .64 | | 27.06 | 108.8 | .945 |
| 843 | 4.24 | 34.328 | .34 | 700 | 4.64 | 34.27 | .37 | | 27.17 | 98.3 | 1.048 |
| | | | | 800 | 4.32 | 34.32 | .36 | | 27.24 | 92.2 | 1.144 |

BH 125 42 0.0 N 126 59.5 W DATE 13 APR 64 1648 GCT WIRE 14 DRY 51.0 WET 47.0
WIND DIRECTION 01 VEL 15 KTS BAR 31 SWELL DIRECTION 31 H 14 T 15 CLOUD 6 AMT 4 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.30 | 32.630 | 6.57 | 0 | 10.30 | 32.63 | 6.57 | | 25.07 | 290.4 | 0 |
| 10 | 10.29 | 32.634 | 6.58 | 10 | 10.29 | 32.63 | 6.58 | | 25.08 | 290.1 | .029 |
| 30 | 9.97 | 32.644 | 6.65 | 20 | 10.14 | 32.63 | 6.63 | | 25.10 | 287.9 | .058 |
| 50 | 9.84 | 32.755 | 6.45 | 30 | 9.97 | 32.65 | 6.66 | | 25.15 | 283.8 | .086 |
| 77 | 9.79 | 32.804 | 5.87 | 50 | 9.84 | 32.76 | 6.45 | | 25.26 | 273.9 | .142 |
| 98 | 9.31 | 33.472 | 3.91 | 75 | 9.80 | 32.87 | 5.96 | | 25.35 | 265.3 | .210 |
| 149 | 8.57 | 33.911 | 2.60 | 100 | 9.27 | 33.51 | 3.80 | | 25.93 | 210.6 | .269 |
| 197 | 8.09 | 33.996 | 2.32 | 150 | 8.56 | 33.91 | 2.59 | | 26.36 | 170.3 | .364 |
| 246 | 7.56 | 34.028 | 2.04 | 200 | 8.06 | 34.00 | 2.30 | | 26.51 | 157.5 | .446 |
| 297 | 6.97 | 34.035 | 2.00 | 250 | 7.51 | 34.03 | 2.04 | | 26.61 | 148.4 | .523 |
| 397 | 6.21 | 34.106 | 1.40 | 300 | 6.94 | 34.04 | 1.99 | | 26.69 | 140.7 | .595 |
| 506 | 5.47 | 34.130 | .92 | 400 | 6.19 | 34.11 | 1.38 | | 26.85 | 127.1 | .729 |
| 595 | 4.86 | 34.196 | .60 | 500 | 5.51 | 34.13 | .94 | | 26.95 | 117.5 | .851 |
| 792 | 3.99 | 34.364 | .24 | 600 | 4.83 | 34.20 | .59 | | 27.09 | 105.4 | .962 |
| 987 | 3.64 | 34.423 | .34 | 700 | 4.32 | 34.29 | .35 | | 27.22 | 93.4 | 1.062 |
| | | | | 800 | 3.97 | 34.37 | .24 | | 27.31 | 84.2 | 1.151 |
| | | | | 1000 | 3.62 | 34.43 | .35 | | 27.40 | 77.5 | 1.312 |

BH 105 42 0.0 N 126 32.1 W DATE 13 APR 64 2010 GCT WIRE 3 DRY 50.5 WET 47.0
WIND DIRECTION 00 VEL 17 KTS BAR 29 SWELL DIRECTION 31 H 14 T 14 CLOUD 6 AMT 8 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 10.32 | 32.298 | 6.75 | 0 | 10.32 | 32.30 | 6.76 | | 24.82 | 314.5 | 0 |
| 10 | | 32.295 | 6.72 | 10 | 10.47 | 32.30 | 6.72 | | 24.79 | 317.3 | .032 |
| 30 | 9.98 | 32.351 | 6.67 | 20 | 10.23 | 32.31 | 6.69 | | 24.84 | 312.9 | .063 |
| 50 | 9.49 | 32.570 | 6.10 | 30 | 9.98 | 32.36 | 6.68 | | 24.92 | 305.7 | .094 |
| 77 | 9.27 | 33.331 | 4.18 | 50 | 9.49 | 32.57 | 6.10 | | 25.17 | 282.1 | .153 |
| 102 | 8.55 | 33.679 | 3.33 | 75 | 9.29 | 33.27 | 4.33 | | 25.75 | 227.7 | .216 |
| 154 | 7.87 | 33.819 | 3.21 | 100 | 8.61 | 33.66 | 3.37 | | 26.16 | 189.1 | .269 |
| 203 | 7.35 | 33.980 | 2.60 | 150 | 7.90 | 33.81 | 3.22 | | 26.38 | 168.6 | .358 |
| 252 | 6.79 | 33.986 | 2.45 | 200 | 7.38 | 33.98 | 2.64 | | 26.59 | 149.2 | .437 |
| 304 | 6.29 | 34.006 | 2.06 | 250 | 6.81 | 33.99 | 2.45 | | 26.67 | 141.8 | .510 |
| 405 | 5.42 | 34.076 | 1.19 | 300 | 6.33 | 34.00 | 2.09 | | 26.75 | 135.0 | .579 |
| 505 | 4.90 | 34.149 | .70 | 400 | 5.46 | 34.07 | 1.23 | | 26.91 | 120.5 | .707 |
| 606 | 4.52 | 34.232 | .39 | 500 | 4.92 | 34.15 | .72 | | 27.03 | 109.0 | .822 |
| 807 | 3.97 | 34.329 | .30 | 600 | 4.54 | 34.23 | .40 | | 27.14 | 100.0 | .926 |
| 1009 | 3.45 | 34.430 | .38 | 700 | 4.24 | 34.28 | .35 | | 27.22 | 93.0 | 1.023 |
| | | | | 800 | 3.99 | 34.33 | .30 | | 27.28 | 87.5 | 1.113 |
| | | | | 1000 | 3.67 | 34.43 | .37 | | 27.41 | 75.9 | 1.276 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| BH 85 42 0.0 N 126 6.8 W DATE 14 APR 64 0128 GCT WIRE 21 DRY 50.5 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 22 KTS BAR 30 SWELL DIRECTION 31 H 14 T 14 CLOUD 6 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.27 | 32.530 | 6.62 | | 0 | 10.27 | 32.53 | 6.63 | | 25.01 | 296.6 | 0 |
| 10 | | 32.531 | 6.61 | | 10 | 10.71 | 32.54 | 6.61 | | 24.94 | 303.7 | .030 |
| 30 | 10.26 | 32.530 | 6.61 | | 20 | 10.49 | 32.53 | 6.61 | | 24.97 | 300.6 | .060 |
| 50 | 9.81 | 32.491 | 6.52 | | 30 | 10.26 | 32.53 | 6.61 | | 25.01 | 296.9 | .090 |
| 77 | 9.65 | 32.717 | 5.82 | | 50 | 9.81 | 32.50 | 6.53 | | 25.06 | 292.9 | .149 |
| 98 | 8.96 | 33.294 | 4.45 | | 75 | 9.67 | 32.64 | 5.90 | | 25.23 | 277.0 | .220 |
| 148 | 7.81 | 33.841 | 3.30 | | 100 | 8.90 | 33.13 | 4.37 | | 25.85 | 217.8 | .282 |
| 196 | 7.19 | 33.967 | 2.66 | | 150 | 7.78 | 33.85 | 3.27 | | 26.43 | 163.7 | .378 |
| 243 | 6.63 | 33.994 | 2.28 | | 200 | 7.14 | 33.96 | 2.62 | | 26.61 | 147.5 | .455 |
| 293 | 6.04 | 34.061 | 1.77 | | 250 | 6.54 | 33.99 | 2.21 | | 26.72 | 137.7 | .527 |
| 389 | 5.27 | 34.077 | 1.19 | | 300 | 5.97 | 34.06 | 1.72 | | 26.84 | 126.0 | .593 |
| 483 | 4.89 | 34.101 | .67 | | 400 | 5.21 | 34.09 | 1.12 | | 26.96 | 116.2 | .714 |
| 581 | 4.62 | 34.217 | .41 | | 500 | 4.84 | 34.20 | .61 | | 27.09 | 104.1 | .824 |
| 770 | 4.07 | 34.322 | .26 | | 600 | 4.57 | 34.22 | .37 | | 27.14 | 100.5 | .926 |
| | | | | | 700 | 4.28 | 34.27 | .26 | | 27.21 | 94.0 | 1.023 |
| BH 65 42 1.0 N 125 41.3 W DATE 14 APR 64 0956 GCT WIRE 10 DRY 50.0 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 22 KTS BAR 29 SWELL DIRECTION 32 H 14 T 9 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.17 | 32.298 | 6.59 | | 0 | 10.17 | 32.30 | 6.59 | | 24.85 | 312.1 | 0 |
| 10 | 10.16 | 32.294 | 6.60 | | 10 | 10.16 | 32.30 | 6.60 | | 24.84 | 312.4 | .031 |
| 30 | 10.17 | 32.333 | 6.57 | | 20 | 10.17 | 32.30 | 6.59 | | 24.84 | 312.7 | .062 |
| 50 | 9.75 | 32.560 | 6.56 | | 30 | 10.17 | 32.34 | 6.57 | | 24.87 | 310.0 | .094 |
| 77 | 9.47 | 32.601 | 6.30 | | 50 | 9.75 | 32.56 | 6.57 | | 25.12 | 286.9 | .153 |
| 99 | 8.69 | 33.207 | 4.53 | | 75 | 9.50 | 32.59 | 6.36 | | 25.18 | 281.4 | .224 |
| 151 | 7.71 | 33.792 | 3.52 | | 100 | 8.66 | 33.23 | 4.49 | | 25.81 | 222.1 | .287 |
| 200 | 7.21 | 33.945 | 2.91 | | 150 | 7.72 | 33.79 | 3.54 | | 26.39 | 167.5 | .385 |
| 249 | 6.69 | 34.061 | 2.40 | | 200 | 7.21 | 33.95 | 2.91 | | 26.59 | 149.3 | .464 |
| 300 | 6.19 | 34.087 | 2.04 | | 250 | 6.68 | 34.00 | 2.39 | | 26.70 | 138.9 | .536 |
| 401 | 5.46 | 34.083 | 1.09 | | 300 | 6.19 | 34.09 | 2.04 | | 26.84 | 126.7 | .602 |
| 502 | 4.94 | 34.142 | .66 | | 400 | 5.47 | 34.08 | 1.10 | | 26.92 | 119.7 | .725 |
| 603 | 4.57 | 34.207 | .49 | | 500 | 4.95 | 34.14 | .66 | | 27.03 | 109.7 | .840 |
| 801 | 4.04 | 34.398 | .41 | | 600 | 4.58 | 34.20 | .49 | | 27.12 | 102.1 | .946 |
| 1011 | 3.46 | 34.483 | .38 | | 700 | 4.30 | 34.30 | .43 | | 27.23 | 92.2 | 1.043 |
| | | | | | 800 | 4.04 | 34.40 | .41 | | 27.33 | 82.9 | 1.131 |
| | | | | | 1000 | 3.49 | 34.48 | .38 | | 27.45 | 72.0 | 1.285 |
| BH 45 42 0.0 N 125 13.3 W DATE 14 APR 64 1553 GCT WIRE 10 DRY 51.0 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 26 KTS BAR 28 SWELL DIRECTION 00 H 8 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.91 | 32.233 | 6.60 | | 0 | 9.91 | 32.24 | 6.60 | | 24.84 | 312.8 | 0 |
| 10 | 9.91 | 32.234 | 6.50 | | 10 | 9.91 | 32.24 | 6.51 | | 24.84 | 312.9 | .031 |
| 30 | 9.94 | 32.236 | 6.40 | | 20 | 9.92 | 32.24 | 6.43 | | 24.84 | 313.5 | .063 |
| 52 | 9.95 | 32.464 | 6.44 | | 30 | 9.94 | 32.24 | 6.41 | | 24.84 | 313.6 | .094 |
| 79 | 9.39 | 32.597 | 6.20 | | 50 | 9.95 | 32.44 | 6.44 | | 24.99 | 299.2 | .155 |
| 100 | 8.88 | 33.417 | 4.01 | | 75 | 9.50 | 32.55 | 6.34 | | 25.15 | 284.4 | .228 |
| 150 | 8.18 | 33.886 | 2.67 | | 100 | 8.88 | 33.42 | 4.02 | | 25.93 | 210.9 | .290 |
| 201 | 7.51 | 33.982 | 2.36 | | 150 | 8.18 | 33.89 | 2.67 | | 26.40 | 166.5 | .384 |
| 255 | 6.91 | 34.007 | 2.13 | | 200 | 7.52 | 33.98 | 2.36 | | 26.57 | 151.3 | .464 |
| 304 | 6.45 | 34.044 | 1.79 | | 250 | 6.96 | 34.01 | 2.15 | | 26.67 | 142.5 | .537 |
| 407 | 5.65 | 34.103 | .99 | | 300 | 6.49 | 34.04 | 1.82 | | 26.76 | 134.3 | .606 |
| 516 | 4.84 | 34.174 | .54 | | 400 | 5.70 | 34.10 | 1.04 | | 26.91 | 121.4 | .734 |
| 620 | 4.61 | 34.272 | .48 | | 500 | 4.94 | 34.16 | .58 | | 27.05 | 108.0 | .849 |
| 825 | 3.81 | 34.376 | .30 | | 600 | 4.64 | 34.25 | .49 | | 27.15 | 99.2 | .952 |
| 1030 | 3.36 | 34.465 | .53 | | 700 | 4.30 | 34.32 | .39 | | 27.24 | 90.9 | 1.047 |
| | | | | | 800 | 3.91 | 34.37 | .31 | | 27.32 | 83.6 | 1.135 |
| | | | | | 1000 | 3.40 | 34.45 | .47 | | 27.44 | 73.1 | 1.291 |
| BH 35 42 0.0 N 124 59.7 W DATE 14 APR 64 1838 GCT WIRE 18 DRY 51.0 WET 47.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 20 KTS BAR 28 SWELL DIRECTION 00 H 8 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.92 | 32.193 | 6.62 | | 0 | 9.92 | 32.20 | 6.63 | | 24.81 | 316.0 | 0 |
| 11 | 9.91 | 32.189 | 6.64 | | 10 | 9.91 | 32.18 | 6.64 | | 24.80 | 316.9 | .032 |
| 31 | 9.87 | 32.290 | 6.61 | | 20 | 9.91 | 32.22 | 6.64 | | 24.83 | 314.2 | .063 |
| 52 | 9.55 | 32.453 | 6.52 | | 30 | 9.88 | 32.28 | 6.61 | | 24.88 | 309.4 | .094 |
| 79 | 9.22 | 32.764 | 5.66 | | 50 | 9.59 | 32.43 | 6.54 | | 25.05 | 293.9 | .155 |
| 97 | 8.39 | 33.560 | 3.77 | | 75 | 9.30 | 32.68 | 5.89 | | 25.28 | 271.7 | .225 |
| 146 | 7.95 | 33.936 | 2.57 | | 100 | 8.33 | 33.63 | 3.60 | | 26.17 | 187.5 | .283 |
| 197 | 7.28 | 33.988 | 2.26 | | 150 | 7.90 | 33.95 | 2.53 | | 26.49 | 158.3 | .369 |
| 250 | 6.59 | 34.028 | 1.98 | | 200 | 7.24 | 33.99 | 2.24 | | 26.62 | 146.6 | .445 |
| 298 | 6.20 | 34.047 | 1.65 | | 250 | 6.59 | 34.03 | 1.99 | | 26.74 | 135.6 | .516 |
| 400 | 5.51 | 34.089 | 1.01 | | 300 | 6.18 | 34.05 | 1.64 | | 26.80 | 129.9 | .582 |
| 506 | 5.01 | 34.184 | .51 | | 400 | 5.52 | 34.09 | 1.01 | | 26.92 | 119.5 | .707 |
| 613 | 4.54 | 34.252 | .43 | | 500 | 5.03 | 34.18 | .53 | | 27.05 | 107.9 | .821 |
| 808 | 4.06 | 34.370 | .35 | | 600 | 4.64 | 34.24 | .44 | | 27.14 | 99.8 | .924 |
| 917 | 3.81 | 34.408 | .34 | | 700 | 4.34 | 34.31 | .38 | | 27.23 | 92.1 | 1.020 |
| | | | | | 800 | 4.08 | 34.37 | .35 | | 27.30 | 85.6 | 1.109 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| BH 25 42 0.0 N 124 46.3 W DATE 14 APR 64 2151 GCT WIRE 28 DRY 51.5 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 26 KTS BAR 24 SWELL DIRECTION 00 H 8 T 8 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.43 | 32.125 | 6.74 | | 0 | 9.43 | 32.13 | 6.74 | | 24.83 | 313.4 | 0 |
| 10 | 9.42 | 32.061 | 6.74 | | 10 | 9.42 | 32.07 | 6.74 | | 24.78 | 318.2 | .032 |
| 20 | 9.42 | 32.061 | 6.75 | | 20 | 9.42 | 32.07 | 6.76 | | 24.78 | 318.3 | .063 |
| 30 | 9.32 | 32.079 | 6.78 | | 30 | 9.32 | 32.08 | 6.79 | | 24.81 | 315.6 | .095 |
| 52 | 9.11 | 32.597 | 6.19 | | 50 | 9.13 | 32.62 | 6.32 | | 25.19 | 280.6 | .155 |
| 68 | 8.87 | 33.428 | 3.91 | | 75 | 8.73 | 33.59 | 3.63 | | 26.09 | 195.5 | .214 |
| 95 | 8.33 | 33.784 | 3.59 | | 100 | 8.25 | 33.82 | 3.47 | | 26.33 | 172.1 | .260 |
| 136 | 7.78 | 33.933 | 2.58 | | 150 | 7.67 | 33.96 | 2.42 | | 26.53 | 154.3 | .342 |
| 184 | 7.44 | 33.991 | 2.19 | | 200 | 7.24 | 34.00 | 2.08 | | 26.63 | 145.8 | .417 |
| 266 | 6.38 | 34.036 | 1.68 | | 250 | 6.60 | 34.03 | 1.77 | | 26.74 | 135.8 | .487 |
| 353 | 5.67 | 34.085 | 1.17 | | 300 | 6.05 | 34.05 | 1.47 | | 26.83 | 127.7 | .553 |
| 447 | 5.47 | 34.163 | .83 | | 400 | 5.55 | 34.12 | .98 | | 26.94 | 117.7 | .676 |
| 550 | 4.97 | 34.211 | .54 | | 500 | 5.25 | 34.19 | .67 | | 27.03 | 109.5 | .789 |
| BH 15 42 0.0 N 124 32.8 W DATE 15 APR 64 0106 GCT WIRE - DRY 50.5 WET 47.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 25 KTS BAR 26 SWELL DIRECTION 00 H 8 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.92 | 33.170 | 5.00 | | 0 | 8.92 | 33.17 | 5.01 | | 25.73 | 228.2 | 0 |
| 10 | 8.87 | 33.273 | 5.03 | | 10 | 8.88 | 33.28 | 5.04 | | 25.82 | 220.0 | .022 |
| 20 | 8.88 | 33.315 | 4.88 | | 20 | 8.88 | 33.32 | 4.89 | | 25.85 | 217.2 | .044 |
| 30 | 8.77 | 33.403 | 4.86 | | 30 | 8.77 | 33.41 | 4.86 | | 25.93 | 209.1 | .066 |
| 53 | 8.85 | 33.459 | 4.23 | | 50 | 8.85 | 33.45 | 4.36 | | 25.95 | 207.5 | .107 |
| 79 | 8.07 | 33.903 | 2.55 | | 75 | 8.21 | 33.83 | 2.80 | | 26.35 | 170.0 | .154 |
| 106 | 7.61 | 33.970 | 2.27 | | 100 | 7.68 | 33.96 | 2.33 | | 26.53 | 153.8 | .195 |
| BH 5 42 0.0 N 124 19.5 W DATE 15 APR 64 0323 GCT WIRE - DRY 49.5 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 16 KTS BAR 23 SWELL DIRECTION 00 H 5 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 7.54 | 34.000 | 3.05 | | 0 | 7.55 | 34.00 | 3.05 | | 26.59 | 146.8 | 0 |
| 10 | 7.25 | 33.894 | 2.46 | | 10 | 7.26 | 33.90 | 2.46 | | 26.54 | 151.0 | .015 |
| 20 | 6.99 | 34.025 | 1.86 | | 20 | 6.99 | 34.03 | 1.86 | | 26.68 | 137.9 | .029 |
| 30 | 6.95 | 34.035 | 1.81 | | 30 | 6.95 | 34.04 | 1.82 | | 26.70 | 136.8 | .043 |
| NH 5 44 39.1 N 124 10.9 W DATE 18 APR 64 0210 GCT WIRE 13 DRY 47.7 WET 43.7 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 29 KTS BAR 21 SWELL DIRECTION 34 H 9 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.27 | 32.193 | 5.95 | | 0 | 9.27 | 32.20 | 5.95 | | 24.91 | 306.0 | 0 |
| 10 | 9.27 | 32.208 | 5.95 | | 10 | 9.27 | 32.21 | 5.95 | | 24.92 | 305.0 | .031 |
| 20 | 8.59 | 32.768 | 4.53 | | 20 | 8.59 | 32.77 | 4.54 | | 25.47 | 253.5 | .058 |
| 30 | 8.17 | 33.473 | 2.89 | | 30 | 8.17 | 33.48 | 2.90 | | 26.08 | 195.2 | .081 |
| 40 | 7.46 | 33.988 | 2.04 | | 50 | 7.34 | 33.98 | 2.04 | | 26.60 | 146.4 | .115 |
| 50 | 7.34 | 33.979 | 2.04 | | 75 | 8.21 | 33.83 | 0 | | 26.35 | 170.0 | .155 |
| NH 15 44 39.1 N 124 25.0 W DATE 18 APR 64 0422 GCT WIRE 13 DRY 48.0 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 24 KTS BAR 21 SWELL DIRECTION 35 H 10 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.39 | 31.192 | 7.03 | | 0 | 9.39 | 31.20 | 7.04 | | 24.11 | 382.1 | 0 |
| 10 | 9.32 | 31.276 | 7.07 | | 10 | 9.32 | 31.28 | 7.07 | | 24.19 | 375.0 | .038 |
| 20 | 8.58 | 32.150 | 6.45 | | 20 | 8.58 | 32.15 | 6.45 | | 24.98 | 299.3 | .072 |
| 30 | 8.60 | 32.477 | 5.83 | | 30 | 8.60 | 32.48 | 5.83 | | 25.24 | 275.4 | .100 |
| 50 | 8.46 | 33.201 | 4.33 | | 50 | 8.46 | 33.21 | 4.33 | | 25.82 | 219.9 | .150 |
| 75 | 8.33 | 33.714 | 2.82 | | 75 | 8.33 | 33.72 | 2.83 | | 26.24 | 180.3 | .200 |
| NH 25 44 39.1 N 124 38.8 W DATE 18 APR 64 0638 GCT WIRE 10 DRY 47.0 WET 43.2 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 25 KTS BAR 21 SWELL DIRECTION 35 H 10 T 6 CLOUD 8 AMT 3 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.22 | 31.697 | 6.96 | | 0 | 9.22 | 31.70 | 6.96 | | 24.53 | 342.1 | 0 |
| 10 | 9.21 | 31.702 | 6.97 | | 10 | 9.21 | 31.71 | 6.97 | | 24.54 | 341.7 | .034 |
| 20 | 9.24 | 31.711 | 6.97 | | 20 | 9.24 | 31.72 | 6.97 | | 24.54 | 341.6 | .068 |
| 30 | 8.43 | 32.266 | 6.66 | | 30 | 8.43 | 32.27 | 6.67 | | 25.10 | 288.7 | .100 |
| 52 | 8.17 | 32.486 | 6.65 | | 50 | 8.19 | 32.49 | 6.65 | | 25.30 | 269.4 | .156 |
| 74 | 8.54 | 33.449 | 3.79 | | 75 | 8.54 | 33.47 | 3.73 | | 26.02 | 201.8 | .215 |
| 104 | 8.24 | 33.707 | 2.96 | | 100 | 8.33 | 33.79 | 3.07 | | 26.30 | 175.5 | .262 |
| 155 | 7.59 | 33.993 | 2.24 | | 150 | 7.66 | 33.99 | 2.28 | | 26.56 | 151.9 | .343 |
| 207 | 6.82 | 34.033 | 1.94 | | 200 | 6.93 | 34.03 | 1.95 | | 26.69 | 139.7 | .416 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 35 | 44 39.1 N | 124 52.7 W | DATE 18 APR 64 | 0923 GCT | WIRE 15 | DRY 45.5 | WET 42.5 | | | | | |
| WIND DIRECTION 35 VEL 25 KTS | | | BAR 23 | SWELL DIRECTION 35 H 10 T 6 | CLOUD - AMT 0 | WEATHER 01 | | | | | | |
| 0 | 9.27 | 31.999 | 6.89 | | 0 | 9.27 | 32.00 | 6.90 | | 24.76 | 320.4 | 0 |
| 10 | 9.27 | 31.996 | 6.88 | | 10 | 9.27 | 32.00 | 6.89 | | 24.76 | 320.7 | .032 |
| 20 | 9.30 | 31.997 | 6.87 | | 20 | 9.30 | 32.00 | 6.88 | | 24.75 | 321.3 | .064 |
| 30 | 9.28 | 32.008 | 6.90 | | 30 | 9.28 | 32.01 | 6.91 | | 24.77 | 320.3 | .096 |
| 52 | 0 | 32.484 | 6.35 | | 50 | 9.02 | 32.43 | 6.43 | | 25.13 | 285.8 | .157 |
| 77 | 8.61 | 32.988 | 5.02 | | 75 | 8.64 | 32.95 | 5.14 | | 25.60 | 242.0 | .223 |
| 108 | 8.46 | 33.605 | 3.46 | | 100 | 8.50 | 33.46 | 3.82 | | 26.01 | 202.5 | .278 |
| 162 | 7.60 | | 2.54 | | 150 | 7.81 | 33.76 | 2.62 | | 26.35 | 171.2 | .372 |
| 216 | 7.06 | 33.994 | 2.23 | | 200 | 7.19 | 33.94 | 2.26 | | 26.58 | 149.9 | .452 |
| NH 45 | 44 39.1 N | 125 7.0 W | DATE 18 APR 64 | 1205 GCT | WIRE 9 | DRY 45.5 | WET 42.0 | | | | | |
| WIND DIRECTION 35 VEL 25 KTS | | | BAR 21 | SWELL DIRECTION 35 H 10 T 6 | CLOUD - AMT 0 | WEATHER 02 | | | | | | |
| 0 | 9.46 | 31.976 | 6.76 | | 0 | 9.46 | 31.98 | 6.77 | | 24.71 | 325.0 | 0 |
| 10 | 9.48 | 31.976 | 6.84 | | 10 | 9.48 | 31.98 | 6.84 | | 24.71 | 325.4 | .033 |
| 20 | 9.46 | 31.984 | 6.83 | | 20 | 9.46 | 31.99 | 6.83 | | 24.72 | 324.6 | .065 |
| 30 | 9.03 | 32.347 | 6.80 | | 30 | 9.03 | 32.35 | 6.81 | | 25.07 | 291.4 | .096 |
| 52 | 8.71 | 32.496 | 6.31 | | 50 | 8.71 | 32.49 | 6.39 | | 25.23 | 276.6 | .153 |
| 78 | 8.81 | 33.281 | 4.15 | | 75 | 8.79 | 33.19 | 4.41 | | 25.76 | 226.6 | .215 |
| 110 | 8.43 | 33.609 | 3.47 | | 100 | 8.58 | 33.55 | 3.56 | | 26.07 | 196.9 | .268 |
| 159 | 7.77 | 33.934 | 2.61 | | 150 | 7.90 | 33.89 | 2.74 | | 26.45 | 162.4 | .358 |
| 213 | 6.92 | 34.001 | 2.13 | | 200 | 7.12 | 34.00 | 2.22 | | 26.64 | 144.2 | .435 |
| 303 | 6.15 | 34.045 | 1.53 | | 250 | 6.55 | 34.02 | 1.86 | | 26.74 | 135.7 | .505 |
| 406 | 5.33 | 34.104 | .93 | | 300 | 6.17 | 34.04 | 1.55 | | 26.80 | 130.0 | .571 |
| 514 | 4.98 | 34.173 | .74 | | 400 | 5.37 | 34.10 | .96 | | 26.95 | 117.3 | .695 |
| | | | | | 500 | 5.00 | 34.16 | .76 | | 27.04 | 108.6 | .808 |
| NH 65 | 44 39.1 N | 125 35.3 W | DATE 18 APR 64 | 1622 GCT | WIRE 5 | DRY 47.0 | WET 43.0 | | | | | |
| WIND DIRECTION 00 VEL 20 KTS | | | BAR 23 | SWELL DIRECTION 00 H 6 T 6 | CLOUD 6 AMT 1 | WEATHER 03 | | | | | | |
| 0 | 9.66 | 31.983 | 6.76 | | 0 | 9.66 | 31.99 | 6.77 | | 24.69 | 327.5 | 0 |
| 10 | 9.65 | 31.999 | 6.73 | | 10 | 9.65 | 32.00 | 6.73 | | 24.70 | 326.3 | .033 |
| 31 | 9.55 | 32.424 | 6.76 | | 20 | 9.64 | 32.19 | 6.74 | | 24.85 | 312.3 | .065 |
| 51 | 9.01 | 32.481 | 6.73 | | 30 | 9.56 | 32.40 | 6.76 | | 25.02 | 295.6 | .095 |
| 77 | 8.73 | 32.662 | 6.09 | | 50 | 9.04 | 32.48 | 6.74 | | 25.17 | 282.4 | .153 |
| 101 | 8.21 | 33.301 | 4.48 | | 75 | 8.75 | 32.64 | 6.17 | | 25.34 | 266.7 | .221 |
| 152 | 7.63 | 33.823 | 3.37 | | 100 | 8.23 | 33.27 | 4.55 | | 25.91 | 212.4 | .281 |
| 204 | 6.92 | 33.965 | 2.66 | | 150 | 7.65 | 33.82 | 3.38 | | 26.42 | 164.4 | .375 |
| 306 | 5.85 | 33.978 | 2.09 | | 200 | 6.97 | 33.96 | 2.70 | | 26.63 | 145.1 | .453 |
| 406 | 5.25 | 34.039 | 1.30 | | 250 | 6.38 | 33.97 | 2.35 | | 26.72 | 137.4 | .523 |
| 509 | 4.89 | 34.150 | .66 | | 300 | 5.90 | 33.98 | 2.11 | | 26.78 | 131.6 | .591 |
| 607 | 4.60 | 34.237 | .43 | | 400 | 5.28 | 34.03 | 1.35 | | 26.90 | 121.1 | .717 |
| 809 | 4.02 | 34.346 | .31 | | 500 | 4.92 | 34.14 | .70 | | 27.03 | 109.4 | .832 |
| 1016 | 3.38 | 34.451 | .48 | | 600 | 4.62 | 34.23 | .44 | | 27.14 | 100.6 | .937 |
| 1213 | 3.05 | 34.495 | .56 | | 700 | 4.33 | 34.29 | .33 | | 27.22 | 93.3 | 1.034 |
| | | | | | 800 | 4.05 | 34.34 | .32 | | 27.29 | 87.0 | 1.124 |
| | | | | | 1000 | 3.42 | 34.44 | .46 | | 27.43 | 74.0 | 1.285 |
| | | | | | 1200 | 3.06 | 34.49 | .56 | | 27.50 | 67.2 | 1.426 |
| NH 85 | 44 39.1 N | 126 3.0 W | DATE 18 APR 64 | 2042 GCT | WIRE 18 | DRY 47.0 | WET 44.0 | | | | | |
| WIND DIRECTION 00 VEL 18 KTS | | | BAR 22 | SWELL DIRECTION 00 H 7 T 6 | CLOUD - AMT 0 | WEATHER 02 | | | | | | |
| 0 | 9.40 | 32.460 | 6.71 | | 0 | 9.40 | 32.46 | 6.71 | | 25.10 | 288.1 | 0 |
| 10 | 9.39 | 32.473 | 6.62 | | 10 | 9.39 | 32.48 | 6.63 | | 25.11 | 287.2 | .029 |
| 20 | 9.43 | 32.444 | 6.70 | | 20 | 9.43 | 32.47 | 6.70 | | 25.10 | 288.6 | .058 |
| 30 | 9.36 | 32.458 | 6.77 | | 30 | 9.36 | 32.46 | 6.78 | | 25.10 | 288.1 | .086 |
| 51 | 8.98 | 32.483 | 6.59 | | 50 | 9.00 | 32.49 | 6.61 | | 25.18 | 281.1 | .143 |
| 71 | 8.84 | 32.761 | 5.83 | | 75 | 8.89 | 32.89 | 5.44 | | 25.51 | 250.0 | .210 |
| 94 | 9.18 | 33.521 | 3.49 | | 100 | 9.17 | 33.62 | 3.19 | | 26.03 | 200.8 | .266 |
| 141 | 8.73 | 33.855 | 2.42 | | 150 | 8.64 | 33.88 | 2.36 | | 26.33 | 173.8 | .360 |
| 188 | 8.23 | 33.951 | 2.27 | | 200 | 8.06 | 33.97 | 2.24 | | 26.48 | 160.0 | .443 |
| 281 | 6.93 | 34.029 | 2.01 | | 250 | 7.36 | 34.01 | 2.11 | | 26.62 | 147.4 | .520 |
| 376 | 6.14 | 34.083 | 1.38 | | 300 | 6.75 | 34.04 | 1.89 | | 26.72 | 137.7 | .591 |
| 470 | 5.46 | 34.126 | 1.00 | | 400 | 5.95 | 34.09 | 1.27 | | 26.87 | 125.0 | .722 |
| 567 | 5.07 | 34.181 | .71 | | 500 | 5.32 | 34.14 | .90 | | 26.98 | 114.1 | .842 |
| 765 | 4.36 | 34.316 | .45 | | 600 | 4.94 | 34.20 | .64 | | 27.08 | 106.6 | .952 |
| 967 | 3.72 | 34.420 | .51 | | 700 | 4.58 | 34.27 | .49 | | 27.17 | 97.8 | 1.054 |
| | | | | | 800 | 4.24 | 34.34 | .46 | | 27.26 | 89.8 | 1.148 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 105 44 39.1 N 126 30.3 W DATE 19 APR 64 0220 GCT WIRE 26 DRY 49.1 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 22 KTS BAR 21 SWELL DIRECTION 00 H 10 T 6 CLOUD - AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.62 | 32.325 | 6.86 | | 0 | 9.63 | 32.33 | 6.86 | | 24.96 | 301.5 | 0 |
| 10 | 9.60 | 32.345 | 6.84 | | 10 | 9.60 | 32.35 | 6.84 | | 24.98 | 299.9 | .030 |
| 20 | 9.61 | 32.345 | 6.74 | | 20 | 9.61 | 32.35 | 6.74 | | 24.98 | 300.2 | .060 |
| 30 | 9.55 | 32.333 | 6.82 | | 30 | 9.55 | 32.34 | 6.82 | | 24.98 | 300.3 | .090 |
| 51 | 9.42 | 32.358 | 6.76 | | 50 | 9.43 | 32.35 | 6.79 | | 25.00 | 297.8 | .150 |
| 72 | 9.04 | 32.950 | 4.99 | | 75 | 8.99 | 33.03 | 4.80 | | 25.61 | 241.0 | .217 |
| 97 | 8.67 | 33.536 | 3.73 | | 100 | 8.64 | 33.57 | 3.64 | | 26.09 | 195.9 | .272 |
| 149 | 8.11 | 33.866 | 2.81 | | 150 | 8.09 | 33.87 | 2.80 | | 26.40 | 166.8 | .362 |
| 192 | 7.41 | 33.967 | 2.64 | | 200 | 7.31 | 33.98 | 2.61 | | 26.60 | 148.7 | .441 |
| 287 | 6.41 | 34.016 | 2.16 | | 250 | 6.76 | 34.01 | 2.37 | | 26.70 | 139.3 | .513 |
| 380 | 5.42 | 34.050 | 1.48 | | 300 | 6.26 | 34.02 | 2.06 | | 26.77 | 132.9 | .581 |
| 468 | 4.94 | 34.118 | 1.05 | | 400 | 5.29 | 34.06 | 1.37 | | 26.93 | 118.9 | .707 |
| 553 | 4.60 | 34.172 | .77 | | 500 | 4.80 | 34.14 | .94 | | 27.04 | 108.1 | .821 |
| 671 | 4.30 | 34.266 | .42 | | 600 | 4.47 | 34.20 | .61 | | 27.13 | 100.8 | .925 |
| 838 | 3.93 | 34.374 | .39 | | 700 | 4.23 | 34.28 | .41 | | 27.21 | 93.3 | 1.022 |
| | | | | | 800 | 4.01 | 34.35 | .40 | | 27.29 | 86.2 | 1.112 |
| NH 125 44 39.1 N 126 58.5 W DATE 19 APR 64 0625 GCT WIRE 11 DRY 47.3 WET 43.8 | | | | | | | | | | | | |
| WIND DIRECTION - VEL - KTS BAR 21 SWELL DIRECTION 00 H 10 T 6 CLOUD - AMT 0 WEATHER 01 | | | | | | | | | | | | |
| 0 | 9.26 | 32.509 | 6.88 | | 0 | 9.26 | 32.51 | 6.89 | | 25.16 | 282.4 | 0 |
| 10 | 9.26 | 32.507 | 6.76 | | 10 | 9.26 | 32.51 | 6.77 | | 25.16 | 282.7 | .028 |
| 20 | 9.28 | 32.506 | 6.82 | | 20 | 9.28 | 32.51 | 6.82 | | 25.15 | 283.2 | .057 |
| 30 | 9.25 | 32.516 | 6.80 | | 30 | 9.25 | 32.52 | 6.81 | | 25.17 | 282.1 | .085 |
| 51 | 9.10 | 32.540 | 6.86 | | 50 | 9.11 | 32.54 | 6.86 | | 25.20 | 279.2 | .141 |
| 74 | 8.80 | 32.802 | 6.51 | | 75 | 8.78 | 32.91 | 6.43 | | 25.55 | 246.5 | .207 |
| 99 | 8.27 | 33.444 | 4.24 | | 100 | 8.26 | 33.46 | 4.19 | | 26.05 | 199.0 | .262 |
| 149 | 7.99 | 33.857 | 3.10 | | 150 | 7.98 | 33.86 | 3.08 | | 26.41 | 165.8 | .353 |
| 198 | 7.45 | 33.986 | 2.41 | | 200 | 7.43 | 33.99 | 2.39 | | 26.59 | 149.4 | .432 |
| 297 | 6.53 | 34.029 | 1.88 | | 250 | 6.94 | 34.03 | 2.06 | | 26.69 | 140.6 | .505 |
| 395 | 5.88 | 34.072 | 1.27 | | 300 | 6.51 | 34.03 | 1.86 | | 26.75 | 135.4 | .574 |
| 493 | 5.39 | 34.146 | .93 | | 400 | 5.85 | 34.08 | 1.25 | | 26.87 | 125.1 | .704 |
| 591 | 4.94 | 34.175 | .73 | | 500 | 5.36 | 34.15 | .91 | | 26.99 | 114.1 | .823 |
| 788 | 4.23 | 34.307 | .39 | | 600 | 4.90 | 34.18 | .71 | | 27.06 | 107.9 | .934 |
| | | | | | 700 | 4.52 | 34.24 | .53 | | 27.15 | 99.7 | 1.038 |
| | | | | | 800 | 4.19 | 34.32 | .37 | | 27.25 | 90.7 | 1.133 |
| NH 145 44 39.1 N 127 27.0 W DATE 19 APR 64 1053 GCT WIRE 16 DRY 47.0 WET 43.6 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 22 KTS BAR 21 SWELL DIRECTION 00 H 10 T 6 CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.37 | 32.561 | 6.73 | | 0 | 9.38 | 32.57 | 6.73 | | 25.18 | 280.2 | 0 |
| 10 | 9.38 | 32.561 | 6.62 | | 10 | 9.38 | 32.57 | 6.63 | | 25.18 | 280.5 | .028 |
| 20 | 9.40 | 32.562 | 6.69 | | 20 | 9.40 | 32.57 | 6.69 | | 25.18 | 280.9 | .056 |
| 30 | 9.37 | 32.564 | 6.64 | | 30 | 9.38 | 32.57 | 6.65 | | 25.18 | 280.4 | .084 |
| 51 | 9.24 | 32.568 | 6.69 | | 50 | 9.25 | 32.56 | 6.69 | | 25.20 | 279.6 | .140 |
| 77 | 8.91 | 32.618 | 6.41 | | 75 | 8.94 | 32.60 | 6.48 | | 25.27 | 272.4 | .209 |
| 103 | 8.33 | 33.481 | 3.93 | | 100 | 8.40 | 33.37 | 4.24 | | 25.96 | 207.6 | .269 |
| 154 | 7.89 | | 2.81 | | 150 | 7.91 | 33.71 | 2.90 | | 26.30 | 175.9 | .365 |
| 205 | 7.37 | 33.982 | 2.46 | | 200 | 7.42 | 33.96 | 2.48 | | 26.57 | 151.6 | .447 |
| 305 | 6.36 | 34.080 | 1.67 | | 250 | 6.90 | 34.05 | 2.09 | | 26.71 | 138.1 | .519 |
| 406 | 5.53 | 34.104 | 1.17 | | 300 | 6.41 | 34.08 | 1.71 | | 26.80 | 130.8 | .586 |
| 504 | 5.01 | 34.182 | .62 | | 400 | 5.57 | 34.10 | 1.20 | | 26.92 | 119.6 | .711 |
| 601 | 4.64 | 34.223 | .54 | | 500 | 5.03 | 34.18 | .64 | | 27.05 | 107.8 | .825 |
| 791 | 4.11 | 34.344 | .26 | | 600 | 4.64 | 34.22 | .54 | | 27.13 | 101.5 | .930 |
| 997 | 3.61 | 34.414 | .31 | | 700 | 4.34 | 34.29 | .38 | | 27.21 | 94.0 | 1.027 |
| | | | | | 800 | 4.09 | 34.35 | .26 | | 27.29 | 87.0 | 1.118 |
| | | | | | 1000 | 3.60 | 34.42 | .31 | | 27.39 | 78.2 | 1.283 |
| NH 165 44 39.1 N 127 55.1 W DATE 19 APR 64 1545 GCT WIRE 8 DRY 49.0 WET 44.7 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 20 KTS BAR 22 SWELL DIRECTION 35 H 9 T 6 CLOUD 6 AMT 5 WEATHER 02 | | | | | | | | | | | | |
| 0 | 9.36 | 32.574 | 6.66 | | 0 | 9.36 | 32.58 | 6.67 | | 25.19 | 279.1 | 0 |
| 10 | 9.36 | 32.562 | 6.66 | | 10 | 9.36 | 32.57 | 6.67 | | 25.18 | 280.1 | .028 |
| 31 | 9.38 | 32.558 | 6.68 | | 20 | 9.37 | 32.56 | 6.67 | | 25.18 | 280.9 | .056 |
| 51 | 9.31 | 32.568 | 6.66 | | 30 | 9.38 | 32.56 | 6.68 | | 25.18 | 281.3 | .084 |
| 77 | 8.60 | 32.706 | 6.07 | | 50 | 9.32 | 32.57 | 6.67 | | 25.19 | 280.1 | .140 |
| 100 | 8.30 | 33.501 | 3.94 | | 75 | 8.66 | 32.68 | 6.16 | | 25.38 | 262.3 | .208 |
| 151 | 8.06 | 33.882 | 2.78 | | 100 | 8.30 | 33.51 | 3.95 | | 26.08 | 196.1 | .265 |
| 202 | 7.51 | 33.991 | 2.39 | | 150 | 8.06 | 33.87 | 2.80 | | 26.41 | 166.0 | .356 |
| 303 | 6.36 | 34.038 | 1.79 | | 200 | 7.53 | 33.99 | 2.40 | | 26.57 | 150.8 | .435 |
| 402 | 5.65 | 34.120 | 1.06 | | 250 | 6.94 | 34.03 | 2.10 | | 26.69 | 140.8 | .508 |
| 504 | 5.08 | 34.182 | .63 | | 300 | 6.39 | 34.04 | 1.81 | | 26.77 | 133.3 | .576 |
| 601 | 4.66 | 34.247 | .46 | | 400 | 5.66 | 34.12 | 1.07 | | 26.93 | 119.6 | .703 |
| 802 | 4.12 | 34.328 | .32 | | 500 | 5.10 | 34.18 | .64 | | 27.04 | 108.6 | .817 |
| 1012 | 3.50 | 34.431 | .34 | | 600 | 4.66 | 34.25 | .46 | | 27.14 | 100.0 | .921 |
| 1212 | 3.06 | 34.506 | .49 | | 700 | 4.37 | 34.29 | .36 | | 27.21 | 93.9 | 1.018 |
| | | | | | 800 | 4.12 | 34.33 | .32 | | 27.27 | 89.1 | 1.109 |
| | | | | | 1000 | 3.53 | 34.43 | .33 | | 27.40 | 76.7 | 1.275 |
| | | | | | 1200 | 3.08 | 34.50 | .48 | | 27.51 | 66.8 | 1.418 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 45 11.0 N 127 58.0 W DATE 20 APR 64 0036 GCT WIRE 7 DRY 47.8 WET 45.7 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 25 KTS BAR 23 SWELL DIRECTION 35 H 9 T 5 CLOUD 00 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.92 | 32.563 | 6.78 | | 0 | 8.92 | 32.57 | 6.79 | | 25.25 | 273.3 | 0 |
| 10 | 8.92 | 32.573 | 6.75 | | 10 | 8.92 | 32.58 | 6.76 | | 25.26 | 272.7 | .027 |
| 20 | 8.96 | 32.560 | 6.72 | | 20 | 8.96 | 32.56 | 6.72 | | 25.25 | 274.4 | .055 |
| 30 | 8.92 | 32.565 | 6.77 | | 30 | 8.92 | 32.57 | 6.78 | | 25.26 | 273.6 | .082 |
| 51 | 8.89 | 32.568 | 6.79 | | 50 | 8.89 | 32.57 | 6.79 | | 25.26 | 273.5 | .137 |
| 76 | 8.58 | 32.592 | 6.58 | | 75 | 8.60 | 32.59 | 6.60 | | 25.32 | 268.2 | .204 |
| 102 | 8.07 | 33.131 | 5.28 | | 100 | 8.11 | 33.08 | 5.39 | | 25.78 | 224.7 | .266 |
| 153 | 7.41 | 33.783 | 4.50 | | 150 | 7.44 | 33.76 | 4.51 | | 26.41 | 165.8 | .364 |
| 204 | 7.04 | 33.923 | 3.92 | | 200 | 7.07 | 33.92 | 3.96 | | 26.59 | 149.3 | .442 |
| 305 | 5.89 | 33.933 | 2.83 | | 250 | 6.53 | 33.93 | 3.43 | | 26.66 | 142.5 | .515 |
| 407 | 5.12 | 34.017 | 1.55 | | 300 | 5.95 | 33.93 | 2.89 | | 26.74 | 135.5 | .585 |
| 507 | 4.71 | 34.092 | .89 | | 400 | 5.16 | 34.01 | 1.63 | | 26.90 | 121.5 | .713 |
| 608 | 4.45 | 34.178 | .50 | | 500 | 4.73 | 34.09 | .92 | | 27.01 | 111.2 | .829 |
| 811 | 3.93 | 34.335 | .28 | | 600 | 4.47 | 34.17 | .52 | | 27.10 | 103.3 | .937 |
| 1014 | 3.34 | 34.421 | .30 | | 700 | 4.22 | 34.25 | .34 | | 27.19 | 95.2 | 1.036 |
| | | | | | 800 | 3.96 | 34.32 | .29 | | 27.28 | 87.8 | 1.127 |
| | | | | | 1000 | 3.38 | 34.42 | .29 | | 27.41 | 75.6 | 1.291 |
| ANH173 45 42.6 N 128 1.9 W DATE 20 APR 64 0752 GCT WIRE 7 DRY 46.4 WET 42.3 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 18 KTS BAR 25 SWELL DIRECTION 35 H 8 T 6 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.99 | 32.404 | 6.75 | | 0 | 8.99 | 32.50 | 6.76 | | 25.19 | 279.5 | 0 |
| 10 | 9.00 | 32.496 | 6.73 | | 10 | 9.00 | 32.50 | 6.73 | | 25.19 | 279.6 | .028 |
| 20 | 9.03 | 32.492 | 6.74 | | 20 | 9.03 | 32.50 | 6.74 | | 25.18 | 280.5 | .056 |
| 30 | 9.00 | 32.492 | 6.81 | | 30 | 9.00 | 32.50 | 6.82 | | 25.19 | 280.2 | .084 |
| 51 | 8.94 | 32.496 | 6.70 | | 50 | 8.95 | 32.49 | 6.72 | | 25.19 | 279.9 | .140 |
| 75 | 8.47 | 32.799 | 5.65 | | 75 | 8.47 | 32.80 | 5.66 | | 25.51 | 250.3 | .206 |
| 101 | 7.69 | 33.408 | 4.24 | | 100 | 7.72 | 33.38 | 4.29 | | 26.07 | 196.8 | .262 |
| 152 | 7.66 | | 2.60 | | 150 | 7.66 | 33.90 | 2.64 | | 26.49 | 158.3 | .351 |
| 202 | 7.11 | 33.991 | 2.20 | | 200 | 7.14 | 33.98 | 2.20 | | 26.62 | 146.0 | .427 |
| 302 | 6.19 | 34.036 | 1.59 | | 250 | 6.63 | 34.01 | 1.89 | | 26.72 | 137.5 | .498 |
| 404 | 5.65 | 34.085 | 1.07 | | 300 | 6.21 | 34.04 | 1.60 | | 26.79 | 131.1 | .565 |
| 503 | 5.09 | 34.136 | .76 | | 400 | 5.67 | 34.08 | 1.09 | | 26.90 | 122.2 | .692 |
| 604 | 4.56 | 34.180 | .54 | | 500 | 5.11 | 34.13 | .77 | | 27.00 | 112.1 | .809 |
| 805 | 3.99 | 34.322 | .26 | | 600 | 4.58 | 34.18 | .55 | | 27.10 | 104.1 | .917 |
| 1006 | 3.41 | 34.414 | .28 | | 700 | 4.25 | 34.25 | .37 | | 27.19 | 95.8 | 1.017 |
| | | | | | 800 | 4.00 | 34.32 | .26 | | 27.27 | 88.3 | 1.109 |
| | | | | | 1000 | 3.43 | 34.41 | .28 | | 27.40 | 76.4 | 1.273 |
| AH 165 46 14.4 N 128 3.8 W DATE 20 APR 64 1545 GCT WIRE DRY 40.9 WET 43.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 23 KTS BAR 27 SWELL DIRECTION 33 H 10 T 6 CLOUD 6 AMT 10 WEATHER 03 | | | | | | | | | | | | |
| 0 | 8.57 | 32.481 | 6.79 | | 0 | 8.57 | 32.49 | 6.80 | | 25.24 | 274.3 | 0 |
| 10 | 8.57 | 32.490 | 6.76 | | 10 | 8.57 | 32.50 | 6.77 | | 25.25 | 273.8 | .027 |
| 31 | 8.61 | 32.482 | 6.79 | | 20 | 8.59 | 32.49 | 6.77 | | 25.24 | 274.8 | .055 |
| 51 | 8.56 | 32.506 | 6.78 | | 30 | 8.61 | 32.48 | 6.79 | | 25.24 | 275.4 | .082 |
| 77 | 8.11 | 32.518 | 6.66 | | 50 | 8.57 | 32.50 | 6.78 | | 25.26 | 273.5 | .137 |
| 98 | 8.07 | 32.912 | 5.42 | | 75 | 8.14 | 32.51 | 6.70 | | 25.33 | 267.5 | .205 |
| 148 | 7.64 | 33.816 | 2.56 | | 100 | 8.06 | 32.96 | 5.28 | | 25.69 | 233.3 | .267 |
| 199 | 7.29 | 33.944 | 1.98 | | 150 | 7.63 | 33.83 | 2.51 | | 26.44 | 163.2 | .367 |
| 299 | 6.72 | 34.008 | 1.79 | | 200 | 7.28 | 33.95 | 1.97 | | 26.58 | 150.6 | .445 |
| 397 | 6.06 | 34.023 | 1.62 | | 250 | 7.00 | 34.00 | 1.80 | | 26.65 | 143.7 | .518 |
| 498 | 5.30 | 34.062 | 1.12 | | 300 | 6.71 | 34.01 | 1.79 | | 26.70 | 139.8 | .589 |
| 595 | 4.70 | 34.143 | .71 | | 400 | 6.04 | 34.02 | 1.61 | | 26.80 | 131.3 | .725 |
| 794 | 3.97 | 34.297 | .29 | | 500 | 5.29 | 34.06 | 1.11 | | 26.93 | 119.5 | .850 |
| 1001 | 3.47 | 34.393 | .31 | | 600 | 4.68 | 34.15 | .69 | | 27.06 | 107.5 | .964 |
| 1200 | 3.06 | 34.463 | .43 | | 700 | 4.26 | 34.23 | .43 | | 27.17 | 97.2 | 1.066 |
| | | | | | 800 | 3.95 | 34.30 | .29 | | 27.26 | 89.1 | 1.159 |
| | | | | | 1000 | 3.47 | 34.39 | .31 | | 27.38 | 78.4 | 1.326 |
| | | | | | 1200 | 3.06 | 34.46 | .43 | | 27.48 | 69.5 | 1.474 |
| AH 145 46 14.3 N 127 35.0 W DATE 20 APR 64 2023 GCT WIRE - DRY 47.2 WET 43.3 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 24 KTS BAR 29 SWELL DIRECTION 33 H 10 T 5 CLOUD 8 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 8.62 | 32.457 | 6.84 | | 0 | 8.63 | 32.46 | 6.84 | | 25.22 | 276.8 | 0 |
| 10 | 8.62 | | | | 10 | 8.63 | 32.45 | 6.76 | | 25.21 | 278.0 | .028 |
| 21 | 8.65 | 32.454 | 6.81 | | 20 | 8.65 | 32.45 | 6.81 | | 25.21 | 278.0 | .056 |
| 31 | 8.59 | 32.460 | 6.86 | | 30 | 8.60 | 32.46 | 6.86 | | 25.22 | 277.0 | .083 |
| 55 | 8.48 | 32.481 | 6.76 | | 50 | 8.51 | 32.47 | 6.79 | | 25.24 | 275.0 | .138 |
| 77 | 8.24 | 32.572 | 6.66 | | 75 | 8.27 | 32.55 | 6.70 | | 25.34 | 265.9 | .206 |
| 103 | 7.75 | 33.263 | 4.65 | | 100 | 7.81 | 33.17 | 4.92 | | 25.90 | 213.6 | .266 |
| 155 | 7.55 | 33.872 | 2.25 | | 150 | 7.57 | 33.85 | 2.39 | | 26.46 | 161.1 | .360 |
| 209 | 7.21 | 33.960 | 1.88 | | 200 | 7.27 | 33.95 | 1.94 | | 26.58 | 150.4 | .437 |
| 310 | 6.59 | 34.007 | 1.74 | | 250 | 6.96 | 33.99 | 1.79 | | 26.65 | 143.7 | .511 |
| 412 | 5.44 | 34.035 | 1.46 | | 300 | 6.65 | 34.01 | 1.74 | | 26.71 | 139.1 | .582 |
| 516 | 4.94 | 34.080 | .95 | | 400 | 5.93 | 34.03 | 1.45 | | 26.82 | 129.4 | .716 |
| 615 | 4.49 | 34.164 | .56 | | 500 | 5.07 | 34.07 | 1.02 | | 26.96 | 116.3 | .839 |
| 820 | 3.87 | 34.333 | .32 | | 600 | 4.54 | 34.15 | .61 | | 27.08 | 105.8 | .950 |
| 1031 | 3.43 | 34.394 | .31 | | 700 | 4.20 | 34.24 | .40 | | 27.19 | 95.6 | 1.050 |
| | | | | | 800 | 3.92 | 34.32 | .32 | | 27.28 | 87.3 | 1.142 |
| | | | | | 1000 | 3.48 | 34.39 | .31 | | 27.38 | 78.5 | 1.307 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

AH 125 46 14.3 N 127 5.0 W DATE 21 APR 64 0125 GCT WIRE 3 DRY 48.0 WET 43.6
WIND DIRECTION 34 VEL 23 KTS BAR 30 SWELL DIRECTION 33 H 10 T 5 CLOUD 8 AMT 10 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.61 | 32.393 | 6.86 | 0 | 8.61 | 32.40 | 6.86 | 25.17 | 281.4 | 0 |
| 10 | 8.60 | 32.395 | 6.85 | 10 | 8.60 | 32.40 | 6.85 | 25.17 | 281.2 | .028 |
| 20 | 8.63 | 32.391 | 6.84 | 20 | 8.63 | 32.40 | 6.84 | 25.16 | 282.1 | .056 |
| 30 | 8.58 | 32.407 | 6.87 | 30 | 8.58 | 32.41 | 6.88 | 25.18 | 280.3 | .084 |
| 51 | 8.57 | 32.493 | 6.76 | 50 | 8.57 | 32.49 | 6.77 | 25.25 | 274.7 | .140 |
| 76 | 8.27 | 32.540 | 6.64 | 75 | 8.28 | 32.54 | 6.65 | 25.33 | 267.4 | .208 |
| 102 | 8.09 | 32.834 | 5.69 | 100 | 8.10 | 32.81 | 5.78 | 25.56 | 245.2 | .272 |
| 153 | 7.47 | 33.662 | 3.90 | 150 | 7.51 | 33.61 | 3.99 | 26.28 | 178.0 | .377 |
| 203 | 7.08 | 33.902 | 3.29 | 200 | 7.10 | 33.90 | 3.31 | 26.56 | 151.7 | .460 |
| 304 | 5.97 | 33.953 | 2.40 | 250 | 6.57 | 33.93 | 2.84 | 26.66 | 143.2 | .534 |
| 406 | 5.18 | 34.001 | 1.58 | 300 | 6.01 | 33.95 | 2.43 | 26.75 | 134.9 | .603 |
| 506 | 4.62 | 34.075 | .92 | 400 | 5.22 | 34.00 | 1.63 | 26.88 | 123.1 | .732 |
| 607 | 4.45 | 34.192 | .46 | 500 | 4.65 | 34.07 | .95 | 27.01 | 111.4 | .849 |
| 809 | 3.82 | 34.309 | .30 | 600 | 4.46 | 34.17 | .48 | 27.11 | 102.9 | .956 |
| 1011 | 3.33 | 34.409 | .32 | 700 | 4.18 | 34.25 | .31 | 27.20 | 94.7 | 1.055 |
| | | | | 800 | 3.85 | 34.30 | .31 | 27.28 | 87.6 | 1.146 |
| | | | | 1000 | 3.35 | 34.40 | .31 | 27.40 | 76.1 | 1.310 |

AH 105 46 14.4 N 126 37.6 W DATE 21 APR 64 0317 GCT WIRE 6 DRY 47.5 WET 43.8
WIND DIRECTION 33 VEL 18 KTS BAR 29 SWELL DIRECTION 33 H 10 T 6 CLOUD 6 AMT 10 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.77 | 32.242 | 6.83 | 0 | 8.77 | 32.25 | 6.83 | 25.03 | 294.9 | 0 |
| 10 | 8.78 | 32.240 | 6.83 | 10 | 8.78 | 32.25 | 6.83 | 25.02 | 295.4 | .030 |
| 21 | 8.81 | 32.244 | 6.82 | 20 | 8.81 | 32.24 | 6.82 | 25.02 | 296.0 | .059 |
| 31 | 8.76 | 32.248 | 6.83 | 30 | 8.77 | 32.25 | 6.83 | 25.03 | 295.3 | .089 |
| 55 | 8.34 | 32.430 | 6.74 | 50 | 8.44 | 32.39 | 6.76 | 25.19 | 280.5 | .146 |
| 76 | 8.11 | 32.529 | 6.69 | 75 | 8.12 | 32.52 | 6.70 | 25.34 | 266.2 | .215 |
| 102 | 7.80 | 33.059 | 5.22 | 100 | 7.82 | 33.01 | 5.36 | 25.77 | 225.9 | .276 |
| 153 | 7.60 | 33.769 | 3.21 | 150 | 7.61 | 33.74 | 3.29 | 26.37 | 169.5 | .375 |
| 205 | 7.06 | 33.937 | 2.71 | 200 | 7.12 | 33.94 | 2.72 | 26.59 | 149.1 | .454 |
| 307 | 5.96 | 33.974 | 2.10 | 250 | 6.56 | 33.95 | 2.42 | 26.68 | 141.0 | .527 |
| 408 | 5.18 | 34.031 | 1.29 | 300 | 6.03 | 33.97 | 2.14 | 26.76 | 133.6 | .596 |
| 511 | 4.66 | 34.113 | .70 | 400 | 5.23 | 34.03 | 1.35 | 26.90 | 121.2 | .723 |
| 610 | 4.45 | 34.201 | .43 | 500 | 4.70 | 34.10 | .75 | 27.03 | 109.6 | .838 |
| 813 | 3.83 | 34.322 | .29 | 600 | 4.47 | 34.19 | .45 | 27.12 | 101.7 | .944 |
| 1022 | 3.35 | 34.406 | .32 | 700 | 4.18 | 34.26 | .32 | 27.21 | 93.9 | 1.042 |
| | | | | 800 | 3.87 | 34.32 | .30 | 27.28 | 87.0 | 1.132 |
| | | | | 1000 | 3.39 | 34.40 | .31 | 27.40 | 77.0 | 1.296 |

AH 85 46 14.4 N 126 8.7 W DATE 21 APR 64 0916 GCT WIRE 7 DRY 46.9 WET 43.5
WIND DIRECTION 33 VEL 16 KTS BAR 29 SWELL DIRECTION 33 H 10 T 7 CLOUD 6 AMT 8 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.80 | 32.302 | 6.89 | 0 | 8.80 | 32.31 | 6.90 | 25.07 | 290.9 | 0 |
| 10 | 8.81 | 32.298 | 6.84 | 10 | 8.81 | 32.30 | 6.84 | 25.06 | 291.5 | .029 |
| 21 | 8.84 | 32.302 | 6.84 | 20 | 8.84 | 32.30 | 6.84 | 25.06 | 292.1 | .058 |
| 31 | 8.81 | 32.301 | 6.93 | 30 | 8.82 | 32.30 | 6.92 | 25.06 | 292.0 | .087 |
| 51 | 8.07 | 32.461 | 6.75 | 50 | 8.11 | 32.45 | 6.76 | 25.29 | 270.9 | .144 |
| 77 | 7.97 | 32.511 | 6.73 | 75 | 7.98 | 32.51 | 6.75 | 25.35 | 265.4 | .211 |
| 102 | 8.01 | 32.830 | 5.60 | 100 | 8.01 | 32.80 | 5.71 | 25.57 | 244.4 | .275 |
| 154 | 7.33 | 33.721 | 3.99 | 150 | 7.40 | 33.66 | 4.09 | 26.34 | 172.6 | .379 |
| 207 | 6.94 | 33.929 | 2.87 | 200 | 6.99 | 33.93 | 2.99 | 26.60 | 148.0 | .459 |
| 309 | 5.76 | 33.980 | 1.92 | 250 | 6.44 | 33.98 | 2.37 | 26.71 | 137.8 | .530 |
| 410 | 5.14 | 34.066 | 1.01 | 300 | 5.86 | 33.98 | 1.97 | 26.79 | 131.2 | .598 |
| 513 | 4.71 | 34.140 | .62 | 400 | 5.18 | 34.06 | 1.09 | 26.93 | 118.3 | .722 |
| 613 | 4.31 | 34.205 | .46 | 500 | 4.76 | 34.13 | .65 | 27.04 | 108.2 | .835 |
| 817 | 3.80 | 34.341 | .29 | 600 | 4.36 | 34.20 | .47 | 27.14 | 100.2 | .940 |
| 1026 | 3.36 | 34.430 | .39 | 700 | 4.06 | 34.27 | .36 | 27.22 | 92.2 | 1.036 |
| | | | | 800 | 3.83 | 34.33 | .30 | 27.30 | 85.4 | 1.124 |
| | | | | 1000 | 3.41 | 34.41 | .36 | 27.41 | 76.1 | 1.286 |

AH 65 46 14.4 N 125 39.2 W DATE 21 APR 64 1339 GCT WIRE - DRY 47.5 WET 45.1
WIND DIRECTION 33 VEL 18 KTS BAR 29 SWELL DIRECTION 33 H 10 T 7 CLOUD 6 AMT 10 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 8.86 | 32.195 | 6.91 | 0 | 8.86 | 32.20 | 6.92 | 24.98 | 299.8 | 0 |
| 10 | 8.85 | 32.193 | 6.90 | 10 | 8.85 | 32.20 | 6.89 | 24.98 | 299.9 | .030 |
| 21 | 8.88 | 32.201 | 6.88 | 20 | 8.88 | 32.20 | 6.88 | 24.97 | 300.4 | .060 |
| 31 | 8.66 | 32.347 | 6.90 | 30 | 8.69 | 32.33 | 6.90 | 25.11 | 287.9 | .089 |
| 51 | 8.18 | 32.469 | 6.88 | 50 | 8.20 | 32.47 | 6.89 | 25.28 | 271.1 | .145 |
| 76 | 8.14 | 32.577 | 6.36 | 75 | 8.14 | 32.56 | 6.41 | 25.37 | 263.3 | .212 |
| 101 | 8.20 | 33.543 | 3.78 | 100 | 8.20 | 33.50 | 3.89 | 26.09 | 194.9 | .269 |
| 152 | 7.73 | 33.923 | 2.66 | 150 | 7.76 | 33.91 | 2.70 | 26.48 | 159.2 | .358 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 45 | 46 14.4 N | 125 10.5 W | DATE 22 APR 64 | 0937 GCT | WIRE 29 | DRY 45.8 | WET 41.8 | | | | | |
| WIND DIRECTION 32 VEL 25 KTS | | | BAR 14 | SWELL DIRECTION 29 H 10 T 6 | CLOUD 8 | AMT 10 | WEATHER 02 | | | | | |
| 0 | 8.86 | 32.038 | 6.97 | | 0 | 8.86 | 32.04 | 6.97 | | 24.85 | 311.4 | 0 |
| 10 | 8.86 | 32.036 | 6.94 | | 10 | 8.86 | 32.04 | 6.94 | | 24.85 | 311.7 | .031 |
| 21 | 8.89 | 32.046 | 6.94 | | 20 | 8.89 | 32.04 | 6.94 | | 24.85 | 311.9 | .062 |
| 31 | 8.84 | 32.064 | 6.95 | | 30 | 8.85 | 32.06 | 6.95 | | 24.87 | 310.4 | .093 |
| 51 | 8.34 | 32.480 | 6.60 | | 50 | 8.36 | 32.46 | 6.63 | | 25.25 | 274.1 | .152 |
| 65 | 8.32 | 32.601 | 6.26 | | 75 | 8.20 | 33.09 | 4.95 | | 25.77 | 225.2 | .214 |
| 80 | 8.13 | 33.361 | 4.22 | | 100 | 8.03 | 33.77 | 3.18 | | 26.33 | 172.7 | .264 |
| 122 | 7.89 | 33.846 | 3.00 | | 150 | 7.37 | 33.94 | 2.65 | | 26.56 | 151.3 | .345 |
| 162 | 7.11 | 33.950 | 2.57 | | 200 | 6.47 | 33.95 | 2.52 | | 26.69 | 139.1 | .418 |
| 246 | 5.87 | 33.959 | 2.47 | | 250 | 5.84 | 33.96 | 2.42 | | 26.78 | 131.2 | .485 |
| 330 | 5.42 | 34.032 | 1.41 | | 300 | 5.52 | 34.00 | 1.81 | | 26.86 | 124.9 | .549 |
| 418 | 5.32 | 34.098 | .95 | | 400 | 5.34 | 34.09 | 1.01 | | 26.94 | 118.1 | .671 |
| 505 | 4.81 | 34.153 | .63 | | 500 | 4.84 | 34.15 | .65 | | 27.05 | 107.8 | .783 |
| 696 | 4.10 | 34.260 | .32 | | 600 | 4.40 | 34.21 | .42 | | 27.14 | 99.9 | .887 |
| 907 | 3.63 | 34.377 | .32 | | 700 | 4.09 | 34.26 | .32 | | 27.22 | 92.8 | .983 |
| | | | | | 800 | 3.83 | 34.32 | .32 | | 27.29 | 86.3 | 1.073 |
| AH 35 | 46 14.4 N | 124 56.2 W | DATE 22 APR 64 | 1237 GCT | WIRE | DRY 46.5 | WET 40.9 | | | | | |
| WIND DIRECTION 32 VEL 25 KTS | | | BAR 14 | SWELL DIRECTION 29 H 14 T 7 | CLOUD 0 | AMT 0 | WEATHER 0 | | | | | |
| 0 | 8.75 | 32.000 | 6.96 | | 0 | 8.75 | 32.00 | 6.96 | | 24.84 | 312.7 | 0 |
| 10 | 8.74 | 31.999 | 6.96 | | 10 | 8.74 | 32.00 | 6.96 | | 24.84 | 312.7 | .031 |
| 20 | 8.77 | 32.001 | 6.98 | | 20 | 8.77 | 32.01 | 6.98 | | 24.84 | 313.1 | .063 |
| 30 | 8.75 | 32.028 | 6.96 | | 30 | 8.75 | 32.03 | 6.96 | | 24.86 | 311.0 | .094 |
| 52 | 8.35 | 32.429 | 6.32 | | 50 | 8.38 | 32.38 | 6.42 | | 25.19 | 280.4 | .153 |
| 77 | 8.58 | 33.244 | 4.31 | | 75 | 8.56 | 33.18 | 4.48 | | 25.79 | 223.6 | .216 |
| 108 | 7.96 | 33.674 | 3.35 | | 100 | 8.16 | 33.60 | 3.50 | | 26.18 | 186.6 | .267 |
| 152 | 7.53 | 33.919 | 2.67 | | 150 | 7.54 | 33.91 | 2.69 | | 26.51 | 155.7 | .353 |
| 217 | 6.78 | 33.986 | 2.20 | | 200 | 6.99 | 33.97 | 2.26 | | 26.63 | 144.9 | .428 |
| NH 25 | 44 39.2 N | 124 39.1 W | DATE 02 JUN 64 | 0534 GCT | WIRE 4 | DRY 56.2 | WET 53.0 | | | | | |
| WIND DIRECTION 16 VEL 13 KTS | | | BAR 12 | SWELL DIRECTION | H | T | CLOUD | AMT | WEATHER | | | |
| 0 | 12.45 | 30.107 | | | 0 | 12.45 | 30.20 | | | 22.82 | 505.9 | 0 |
| 10 | 10.20 | 32.011 | | | 10 | 10.20 | 32.02 | | | 24.62 | 334.0 | .042 |
| 20 | 9.71 | 32.116 | | | 20 | 9.71 | 32.12 | | | 24.78 | 318.7 | .075 |
| 30 | 8.47 | 32.153 | | | 30 | 8.47 | 32.16 | | | 25.00 | 297.6 | .105 |
| 50 | 7.71 | 32.675 | | | 50 | 7.71 | 32.68 | | | 25.52 | 248.5 | .160 |
| 75 | 7.73 | 33.257 | | | 75 | 7.73 | 33.26 | | | 25.98 | 205.8 | .217 |
| 100 | 7.74 | 33.750 | | | 100 | 7.74 | 33.75 | | | 26.36 | 169.6 | .264 |
| 125 | 7.36 | 33.893 | | | 150 | 7.02 | 33.97 | | | 26.63 | 144.4 | .342 |
| 150 | 7.01 | 33.965 | | | 200 | 6.38 | 34.01 | | | 26.75 | 134.0 | .412 |
| 200 | 6.38 | 34.007 | | | 250 | 5.84 | 33.96 | | | 26.78 | 131.2 | .478 |
| NH 45S | 44 34.5 N | 125 14.4 W | DATE 01 JUN 64 | 1619 GCT | WIRE 2 | DRY 56.0 | WET 51.0 | | | | | |
| WIND DIRECTION | VEL | KTS | BAR | SWELL DIRECTION | H | T | CLOUD 0 | AMT 8 | WEATHER | | | |
| 0 | 11.86 | 31.465 | | | 0 | 11.86 | 31.47 | | | 23.90 | 401.9 | 0 |
| 10 | 11.51 | 31.532 | | | 10 | 11.51 | 31.54 | | | 24.02 | 391.1 | .040 |
| 20 | 10.38 | 31.744 | | | 20 | 10.38 | 31.75 | | | 24.38 | 356.8 | .077 |
| 30 | 9.21 | 32.061 | | | 30 | 9.21 | 32.07 | | | 24.82 | 315.3 | .111 |
| 50 | 7.82 | 32.654 | | | 50 | 7.82 | 32.66 | | | 25.49 | 251.5 | .167 |
| 75 | 7.90 | 33.148 | | | 75 | 7.91 | 33.15 | | | 25.87 | 216.2 | .226 |
| 100 | 7.79 | 33.562 | | | 100 | 7.80 | 33.57 | | | 26.21 | 184.3 | .276 |
| 125 | 7.78 | 33.785 | | | 150 | 7.19 | 33.93 | | | 26.58 | 149.4 | .359 |
| 150 | 7.18 | 33.928 | | | 200 | 6.49 | 34.00 | | | 26.73 | 135.6 | .430 |
| 200 | 6.49 | 34.004 | | | 250 | 5.84 | 33.96 | | | 26.78 | 131.2 | .497 |
| NH 45 | 44 39.0 N | 125 14.3 W | DATE 01 JUN 64 | 1831 GCT | WIRE 2 | DRY 56.5 | WET 53.5 | | | | | |
| WIND DIRECTION 17 VEL 12 KTS | | | BAR 12 | SWELL DIRECTION 17 H 4 T 5 | CLOUD 6 | AMT 6 | WEATHER 01 | | | | | |
| 0 | 11.82 | 31.520 | | | 0 | 11.82 | 31.52 | | | 23.95 | 397.2 | 0 |
| 10 | 11.56 | 31.534 | | | 10 | 11.56 | 31.54 | | | 24.01 | 391.8 | .039 |
| 20 | 10.25 | 31.785 | | | 20 | 10.25 | 31.79 | | | 24.43 | 351.7 | .077 |
| 30 | 9.13 | 32.106 | | | 30 | 9.13 | 32.11 | | | 24.87 | 310.8 | .110 |
| 50 | 7.86 | 32.648 | | | 50 | 7.86 | 32.65 | | | 25.48 | 252.5 | .166 |
| 75 | 7.92 | 33.342 | | | 75 | 7.93 | 33.35 | | | 26.01 | 202.1 | .223 |
| 100 | 7.71 | 33.692 | | | 100 | 7.71 | 33.70 | | | 26.32 | 173.5 | .270 |
| 125 | 7.53 | 33.847 | | | 150 | 7.09 | 33.95 | | | 26.60 | 147.0 | .350 |
| 150 | 7.09 | 33.944 | | | 200 | 6.48 | 34.00 | | | 26.73 | 136.0 | .421 |
| 200 | 6.48 | 33.998 | | | 250 | 5.84 | 33.96 | | | 26.78 | 131.2 | .487 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 45N 44 44.1 N 125 6.0 W DATE 02 JUN 64 0239 GCT WIRE 0 DRY 0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 15 KTS BAR 15 SWELL DIRECTION H T CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 11.99 | 31.113 | | | 0 | 11.99 | 31.12 | | | 23.61 | 430.2 | 0 |
| 10 | 11.89 | 31.113 | | | 10 | 11.89 | 31.12 | | | 23.63 | 428.6 | .043 |
| 20 | 9.21 | 32.075 | | | 20 | 9.21 | 32.08 | | | 24.83 | 314.1 | .080 |
| 30 | 8.31 | 32.265 | | | 30 | 8.31 | 32.27 | | | 25.11 | 287.0 | .110 |
| 50 | 7.74 | 32.930 | | | 50 | 7.74 | 32.93 | | | 25.72 | 229.9 | .162 |
| 75 | 7.95 | 33.371 | | | 75 | 7.95 | 33.38 | | | 26.03 | 200.3 | .216 |
| 100 | 7.90 | 33.572 | | | 100 | 7.91 | 33.58 | | | 26.20 | 185.1 | .264 |
| 125 | 7.57 | 33.818 | | | 150 | 7.07 | 33.93 | | | 26.59 | 148.3 | .347 |
| 150 | 7.07 | 33.923 | | | 200 | 6.65 | 34.01 | | | 26.71 | 137.3 | .418 |
| 200 | 6.65 | 34.010 | | | 250 | 5.84 | 33.96 | | | 26.78 | 131.2 | .486 |
| AH 005 46 14.4 N 124 15.5 W DATE 12 JUL 64 1035 GCT WIRE 02 DRY 58.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 12 KTS BAR 21 SWELL DIRECTION 34 H 05 T 05 CLOUD AMT 08 WEATHER 01 | | | | | | | | | | | | |
| 0 | 15.50 | 17.600 | 6.66 | | 0 | 15.50 | | 6.67 | | | | |
| 20 | 7.31 | 33.709 | 2.26 | | 10 | 7.43 | | 2.15 | | | | |
| 30 | 7.19 | | 2.37 | | 20 | 7.32 | | 2.27 | | | | |
| 50 | 7.01 | 33.956 | 1.51 | | 30 | 7.19 | | 2.38 | | | | |
| | | | | | 50 | 7.02 | | 1.52 | | | | |
| AH 015 46 14.4 N 124 27.2 W DATE 12 JUL 64 1420 GCT WIRE 15 DRY 57.8 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 09 KTS BAR 21 SWELL DIRECTION 35 H 03 T 05 CLOUD AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.52 | 17.300 | 6.62 | | 0 | 15.52 | 17.30 | 6.63 | | 12.34 | 1517.4 | 0 |
| 10 | 13.14 | 30.163 | 6.41 | | 10 | 13.14 | 30.17 | 6.42 | | 22.66 | 521.1 | .102 |
| 20 | 8.52 | 32.448 | 4.16 | | 20 | 8.52 | 32.45 | 4.16 | | 25.23 | 276.3 | .142 |
| 30 | 7.79 | 32.894 | 3.64 | | 30 | 7.80 | 32.90 | 3.65 | | 25.68 | 233.0 | .167 |
| 50 | 7.26 | 33.664 | 2.18 | | 50 | 7.27 | 33.67 | 2.18 | | 26.36 | 168.8 | .207 |
| 73 | 6.91 | 33.949 | 1.44 | | 75 | 6.89 | 33.96 | 1.45 | | 26.64 | 142.6 | .246 |
| 100 | 6.65 | 33.978 | 1.54 | | 100 | 6.66 | 33.98 | 1.55 | | 26.69 | 138.0 | .281 |
| 148 | 6.43 | 33.995 | 1.46 | | 150 | 6.42 | 34.00 | 1.46 | | 26.73 | 134.8 | .350 |
| 201 | 6.33 | 33.995 | 1.47 | | 200 | 6.33 | 34.00 | 1.47 | | 26.74 | 134.3 | .417 |
| AH 025 46 14.4 N 124 41.7 W DATE 12 JUL 64 1705 GCT WIRE 06 DRY 58.0 WET 56.2 | | | | | | | | | | | | |
| WIND DIRECTION 33 VEL 08 KTS BAR 22 SWELL DIRECTION 33 H 03 T 05 CLOUD AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.10 | 30.788 | 6.27 | | 0 | 15.10 | 30.79 | 6.28 | | 22.74 | 513.0 | 0 |
| 10 | 14.80 | 31.980 | 6.25 | | 10 | 14.80 | 31.98 | 6.26 | | 23.72 | 419.8 | .047 |
| 20 | 10.87 | 32.204 | 7.21 | | 20 | 10.88 | 32.21 | 7.21 | | 24.65 | 330.8 | .084 |
| 30 | 8.63 | 32.270 | 6.44 | | 30 | 8.63 | 32.27 | 6.44 | | 25.07 | 291.2 | .115 |
| 50 | 7.75 | 32.651 | 5.83 | | 50 | 7.76 | 32.66 | 5.83 | | 25.50 | 250.8 | .169 |
| 77 | 7.60 | 33.278 | 4.34 | | 75 | 7.61 | 33.23 | 4.45 | | 25.97 | 206.1 | .227 |
| 104 | 7.57 | 33.608 | 3.50 | | 100 | 7.57 | 33.57 | 3.59 | | 26.24 | 180.8 | .275 |
| 152 | 7.29 | 33.887 | 2.73 | | 150 | 7.31 | 33.88 | 2.75 | | 26.52 | 154.9 | .359 |
| 206 | 6.54 | 33.978 | 2.27 | | 200 | 6.65 | 33.97 | 2.30 | | 26.68 | 140.4 | .433 |
| AH 035 46 14.4 N 124 56.2 W DATE 12 JUL 64 1935 GCT WIRE 03 DRY 59.8 WET 57.2 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 12 KTS BAR 22 SWELL DIRECTION 35 H 05 T 05 CLOUD AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.52 | 32.010 | 6.00 | | 0 | 15.52 | 32.01 | 6.01 | | 23.59 | 432.2 | 0 |
| 10 | 15.35 | 32.023 | 6.05 | | 10 | 15.35 | 32.03 | 6.06 | | 23.63 | 427.9 | .043 |
| 20 | 13.19 | 32.112 | 6.81 | | 20 | 13.19 | 32.12 | 6.82 | | 24.15 | 378.8 | .083 |
| 30 | 9.54 | 32.212 | 7.05 | | 30 | 9.54 | 32.22 | 7.06 | | 24.88 | 309.1 | .118 |
| 50 | 7.92 | 32.408 | 6.35 | | 50 | 7.93 | 32.41 | 6.36 | | 25.28 | 271.2 | .176 |
| 77 | 7.90 | 32.937 | 5.05 | | 75 | 7.90 | 32.89 | 5.15 | | 25.66 | 235.5 | .239 |
| 104 | 7.84 | 33.436 | 3.86 | | 100 | 7.85 | 33.37 | 4.01 | | 26.04 | 199.8 | .293 |
| 153 | 7.50 | 33.873 | 3.13 | | 150 | 7.53 | 33.86 | 3.15 | | 26.47 | 159.6 | .383 |
| 207 | 6.69 | 33.968 | 1.97 | | 200 | 6.80 | 33.96 | 2.11 | | 26.65 | 143.3 | .459 |
| 304 | 5.92 | 34.032 | 1.59 | | 250 | 6.28 | 34.01 | 1.67 | | 26.76 | 133.5 | .528 |
| 407 | 5.38 | 34.089 | 1.21 | | 300 | 5.94 | 34.03 | 1.61 | | 26.82 | 128.1 | .594 |
| 509 | 4.94 | 34.157 | .85 | | 400 | 5.41 | 34.09 | 1.24 | | 26.93 | 118.9 | .717 |
| 615 | 4.47 | 34.238 | .56 | | 500 | 4.98 | 34.15 | .88 | | 27.03 | 109.3 | .831 |
| | | | | | 600 | 4.54 | 34.23 | .60 | | 27.14 | 100.1 | .936 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

AH 045 46 14.4 N 125 10.4 W DATE 12 JUL 64 2305 GCT WIRE 04 DRY 60.0 WET 57.5
WIND DIRECTION 35 VEL 15 KTS BAR 21 SWELL DIRECTION 35 H 05 T 07 CLOUD AMT 08 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.96 | 31.937 | 5.90 | 0 | 15.96 | 31.94 | 5.91 | | 23.43 | 446.8 | 0 |
| 10 | 15.56 | 31.872 | 5.99 | 10 | 15.56 | 31.88 | 5.99 | | 23.47 | 443.3 | .045 |
| 30 | 10.41 | 32.168 | 7.53 | 20 | 13.13 | 31.99 | 6.81 | | 24.07 | 386.7 | .086 |
| 50 | 8.71 | | 6.42 | 30 | 10.41 | 32.17 | 7.54 | | 24.70 | 326.1 | .122 |
| 76 | 8.08 | 32.335 | 5.36 | 50 | 8.71 | 32.23 | 6.43 | | 25.02 | 295.8 | .184 |
| 102 | 8.33 | 32.802 | | 75 | 8.10 | 32.33 | 5.40 | | 25.19 | 280.2 | .256 |
| 152 | 7.47 | 33.400 | 2.93 | 100 | 8.30 | 32.76 | 4.41 | | 25.50 | 251.2 | .322 |
| 206 | 6.86 | 33.939 | 2.67 | 150 | 7.52 | 33.38 | 2.97 | | 26.10 | 195.0 | .434 |
| 256 | 6.37 | 33.982 | 2.17 | 200 | 6.92 | 33.89 | 2.68 | | 26.59 | 149.4 | .520 |
| 305 | 5.87 | 34.010 | 1.80 | 250 | 6.43 | 33.98 | 2.23 | | 26.72 | 137.6 | .592 |
| 406 | 5.19 | 34.063 | 1.25 | 300 | 5.92 | 34.01 | 1.83 | | 26.81 | 129.5 | .658 |
| 507 | 4.78 | 34.139 | .78 | 400 | 5.22 | 34.06 | 1.28 | | 26.93 | 118.5 | .782 |
| 609 | 4.38 | 34.212 | .50 | 500 | 4.80 | 34.13 | .81 | | 27.04 | 108.5 | .896 |
| 1014 | 3.30 | 34.425 | .63 | 600 | 4.41 | 34.21 | .52 | | 27.14 | 100.1 | 1.000 |
| | | | | 700 | 4.07 | 34.27 | .53 | | 27.23 | 91.9 | 1.096 |
| | | | | 800 | 3.77 | 34.33 | .56 | | 27.30 | 84.9 | 1.184 |
| | | | | 1000 | 3.32 | 34.42 | .59 | | 27.42 | 74.7 | 1.344 |

AH 085 46 14.6 N 126 9.0 W DATE 13 JUL 64 0840 GCT WIRE 06 DRY 58.0 WET 55.0
WIND DIRECTION 31 VEL 15 KTS BAR 19 SWELL DIRECTION 33 H 04 T 05 CLOUD AMT 08 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.11 | 32.235 | 6.02 | 0 | 15.11 | 32.24 | 6.03 | | 23.85 | 407.2 | 0 |
| 10 | 14.54 | 32.224 | 6.16 | 10 | 14.54 | 32.23 | 6.17 | | 23.96 | 396.6 | .040 |
| 30 | 10.15 | 32.458 | 7.04 | 20 | 12.43 | 32.33 | 6.62 | | 24.46 | 349.0 | .077 |
| 50 | 8.69 | 32.521 | 6.76 | 30 | 10.15 | 32.46 | 7.05 | | 24.97 | 300.5 | .110 |
| 76 | 8.45 | 32.565 | 6.62 | 50 | 8.69 | 32.53 | 6.77 | | 25.24 | 273.7 | .167 |
| 101 | 7.68 | 32.940 | 5.24 | 75 | 8.46 | 32.56 | 6.64 | | 25.32 | 268.1 | .235 |
| 151 | 7.30 | 33.624 | 4.17 | 100 | 7.71 | 32.92 | 5.30 | | 25.71 | 231.1 | .297 |
| 204 | 6.72 | 33.868 | 3.76 | 150 | 7.30 | 33.61 | 4.18 | | 26.31 | 174.8 | .399 |
| 254 | 6.21 | 33.926 | 2.96 | 200 | 6.77 | 33.86 | 3.79 | | 26.58 | 149.9 | .480 |
| 304 | 5.78 | 33.960 | 2.20 | 250 | 6.25 | 33.92 | 3.03 | | 26.70 | 139.1 | .552 |
| 404 | 5.23 | 34.044 | 1.30 | 300 | 5.81 | 33.96 | 2.26 | | 26.78 | 131.9 | .620 |
| 505 | 4.99 | 34.160 | .64 | 400 | 5.25 | 34.04 | 1.33 | | 26.91 | 120.3 | .746 |
| 606 | 4.54 | 34.208 | .39 | 500 | 5.00 | 34.15 | .66 | | 27.03 | 109.3 | .861 |
| 809 | 3.93 | 34.348 | .30 | 600 | 4.57 | 34.21 | .40 | | 27.12 | 101.9 | .966 |
| 1009 | 3.36 | 34.406 | .30 | 700 | 4.23 | 34.27 | .31 | | 27.21 | 93.5 | 1.064 |
| | | | | 800 | 3.95 | 34.34 | .30 | | 27.29 | 86.0 | 1.154 |
| | | | | 1000 | 3.38 | 34.41 | .30 | | 27.40 | 76.4 | 1.316 |

AH 065 46 14.4 N 125 39.5 W DATE 13 JUL 64 0336 GCT WIRE 0 DRY 59.5 WET 50.5
WIND DIRECTION 34 VEL 14 KTS BAR 20 SWELL DIRECTION 34 H 04 T 05 CLOUD AMT 0 WEATHER 0

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.25 | 31.249 | 5.85 | 0 | 16.25 | 31.25 | 5.85 | | 22.84 | 503.3 | 0 |
| 10 | 15.13 | 31.910 | 6.07 | 10 | 15.13 | 31.92 | 6.07 | | 23.60 | 431.6 | .047 |
| 30 | 11.03 | 32.147 | 7.16 | 20 | 13.14 | 32.13 | 6.68 | | 24.17 | 377.1 | .087 |
| 50 | 8.43 | 32.262 | 6.41 | 30 | 11.03 | 32.15 | 7.17 | | 24.58 | 337.9 | .123 |
| 77 | 8.01 | 32.763 | 5.52 | 50 | 8.43 | 32.27 | 6.42 | | 25.09 | 289.2 | .186 |
| 101 | 8.04 | 33.376 | 3.99 | 75 | 8.04 | 32.72 | 5.60 | | 25.50 | 250.6 | .253 |
| 151 | 7.49 | 33.826 | 3.04 | 100 | 8.04 | 33.35 | 4.05 | | 26.00 | 203.7 | .310 |
| 204 | 6.92 | 33.903 | 2.52 | 150 | 7.50 | 33.82 | 3.04 | | 26.45 | 161.9 | .401 |
| 304 | 5.86 | 34.003 | 1.78 | 200 | 6.96 | 33.99 | 2.55 | | 26.65 | 143.1 | .477 |
| 404 | 5.26 | 34.104 | 1.00 | 250 | 6.40 | 34.00 | 2.16 | | 26.74 | 135.7 | .547 |
| 504 | 4.72 | 34.145 | .65 | 300 | 5.90 | 34.00 | 1.81 | | 26.80 | 129.6 | .613 |
| 606 | 4.37 | 34.224 | .37 | 400 | 5.28 | 34.10 | 1.03 | | 26.96 | 116.2 | .736 |
| 809 | 3.87 | 34.339 | .25 | 500 | 4.74 | 34.14 | .66 | | 27.05 | 107.0 | .848 |
| 1009 | 3.39 | 34.420 | .32 | 600 | 4.39 | 34.22 | .38 | | 27.15 | 98.8 | .951 |
| 1213 | 2.99 | 34.480 | .45 | 700 | 4.12 | 34.28 | .27 | | 27.23 | 91.6 | 1.046 |
| | | | | 800 | 3.89 | 34.33 | .26 | | 27.30 | 85.8 | 1.135 |
| | | | | 1000 | 3.41 | 34.42 | .31 | | 27.41 | 75.9 | 1.296 |
| | | | | 1200 | 3.01 | 34.48 | .44 | | 27.49 | 67.9 | 1.440 |

AH 105 46 14.4 N 126 37.2 W DATE 13 JUL 64 1438 GCT WIRE 04 DRY 55.0 WET 51.5
WIND DIRECTION 33 VEL 08 KTS BAR 16 SWELL DIRECTION 33 H 04 T 05 CLOUD 06 AMT 07 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15.03 | 32.224 | 5.96 | 0 | 15.03 | 32.23 | 5.96 | | 23.86 | 406.3 | 0 |
| 10 | 14.63 | 32.213 | 6.00 | 10 | 14.63 | 32.22 | 6.01 | | 23.93 | 399.3 | .040 |
| 30 | 10.33 | 32.212 | 7.19 | 20 | 12.64 | 32.21 | 6.62 | | 24.33 | 361.5 | .078 |
| 50 | 8.14 | 32.313 | 6.47 | 30 | 10.33 | 32.22 | 7.19 | | 24.75 | 321.5 | .112 |
| 76 | 7.76 | 32.612 | 5.99 | 50 | 8.14 | 32.32 | 6.47 | | 25.18 | 281.3 | .173 |
| 102 | 7.58 | 33.095 | 4.86 | 75 | 7.77 | 32.60 | 6.01 | | 25.45 | 255.8 | .240 |
| 152 | 7.16 | 33.774 | 3.37 | 100 | 7.59 | 33.06 | 4.95 | | 25.83 | 219.4 | .299 |
| 205 | 6.76 | 33.916 | 3.03 | 150 | 7.18 | 33.76 | 3.41 | | 26.44 | 162.5 | .395 |
| 255 | 6.16 | 33.939 | 2.70 | 200 | 6.80 | 33.90 | 3.04 | | 26.61 | 147.3 | .472 |
| 305 | 5.73 | 33.986 | 2.22 | 250 | 6.22 | 33.94 | 2.74 | | 26.71 | 137.8 | .543 |
| 406 | 5.09 | 34.027 | 1.26 | 300 | 5.77 | 33.98 | 2.27 | | 26.80 | 129.7 | .610 |
| 507 | 4.73 | 34.133 | .59 | 400 | 5.03 | 34.02 | 1.31 | | 26.93 | 118.9 | .734 |
| 608 | 4.45 | 34.237 | .41 | 500 | 4.74 | 34.12 | .72 | | 27.04 | 108.4 | .848 |
| 812 | 3.80 | 34.340 | .29 | 600 | 4.47 | 34.22 | .42 | | 27.14 | 99.7 | .952 |
| 1013 | 3.30 | 34.420 | .34 | 700 | 4.15 | 34.29 | .31 | | 27.23 | 91.7 | 1.048 |
| | | | | 800 | 3.84 | 34.34 | .30 | | 27.30 | 85.2 | 1.136 |
| | | | | 1000 | 3.33 | 34.42 | .33 | | 27.42 | 75.0 | 1.296 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| AH 125 46 14.4 N 127 6.1 W DATE 13 JUL 64 1820 GCT WIRE 04 DRY 57.8 WET 53.2 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 04 KTS BAR 15 SWELL DIRECTION 27 H 04 T 07 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.18 | 32.225 | 5.98 | | 0 | 15.18 | 32.23 | 5.98 | | 23.83 | 409.4 | 0 |
| 10 | 14.17 | 32.212 | 6.16 | | 10 | 14.17 | 32.22 | 6.17 | | 24.03 | 390.2 | .040 |
| 30 | 11.48 | 32.213 | 7.29 | | 20 | 12.89 | 32.21 | 6.77 | | 24.28 | 366.1 | .078 |
| 50 | 8.66 | 32.362 | 6.69 | | 30 | 11.48 | 32.22 | 7.30 | | 24.55 | 340.7 | .113 |
| 76 | 8.26 | 32.512 | 6.34 | | 50 | 8.66 | 32.35 | 6.69 | | 25.12 | 286.6 | .176 |
| 101 | 8.00 | 32.803 | 5.35 | | 75 | 8.28 | 32.50 | 6.36 | | 25.30 | 269.7 | .245 |
| 151 | 7.22 | 33.657 | 4.09 | | 100 | 8.01 | 32.98 | 5.39 | | 25.63 | 238.7 | .309 |
| 204 | 6.81 | 33.897 | 3.25 | | 150 | 7.24 | 33.64 | 4.11 | | 26.35 | 171.6 | .411 |
| 254 | 6.24 | 33.960 | 2.57 | | 200 | 6.84 | 33.89 | 3.30 | | 26.60 | 148.5 | .491 |
| 304 | 5.93 | 33.978 | 2.09 | | 250 | 6.28 | 33.95 | 2.62 | | 26.71 | 137.8 | .563 |
| 407 | 5.11 | 34.033 | 1.33 | | 300 | 5.95 | 33.98 | 2.12 | | 26.78 | 132.3 | .630 |
| 501 | 4.70 | 34.187 | .42 | | 400 | 5.16 | 34.03 | 1.38 | | 26.91 | 120.2 | .757 |
| 606 | 4.36 | 34.210 | .47 | | 500 | 4.70 | 34.19 | .43 | | 27.09 | 103.5 | .868 |
| 809 | 3.71 | 34.336 | .30 | | 600 | 4.38 | 34.21 | .45 | | 27.14 | 99.5 | .970 |
| 1008 | 3.40 | 34.443 | .49 | | 700 | 4.04 | 34.26 | .39 | | 27.22 | 92.1 | 1.066 |
| | | | | | 800 | 3.74 | 34.33 | .31 | | 27.31 | 84.4 | 1.154 |
| | | | | | 1000 | 3.41 | 34.44 | .48 | | 27.43 | 74.2 | 1.312 |
| AH 145 46 14.2 N 127 35.0 W DATE 13 JUL 64 2204 GCT WIRE 04 DRY 59.0 WET 0 | | | | | | | | | | | | |
| WIND DIRECTION 17 VEL 16 KTS BAR 13 SWELL DIRECTION 17 H 04 T 07 CLOUD AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.98 | 32.186 | 6.05 | | 0 | 14.98 | 32.19 | 6.06 | | 23.84 | 408.1 | 0 |
| 10 | 14.04 | 32.177 | 6.24 | | 10 | 14.04 | 32.18 | 6.24 | | 24.03 | 390.2 | .040 |
| 30 | 10.29 | 32.204 | 7.13 | | 20 | 12.21 | 32.18 | 6.73 | | 24.39 | 356.1 | .077 |
| 50 | 8.27 | 32.328 | 6.58 | | 30 | 10.29 | 32.21 | 7.14 | | 24.75 | 321.5 | .111 |
| 76 | 7.69 | 32.536 | 6.27 | | 50 | 8.27 | 32.33 | 6.58 | | 25.17 | 282.1 | .171 |
| 101 | 7.56 | 33.171 | 4.54 | | 75 | 7.71 | 32.52 | 6.29 | | 25.40 | 260.4 | .239 |
| 151 | 7.39 | 33.849 | 2.97 | | 100 | 7.56 | 33.14 | 4.62 | | 25.91 | 212.5 | .298 |
| 204 | 6.89 | 33.951 | 2.59 | | 150 | 7.39 | 33.86 | 2.98 | | 26.49 | 157.5 | .391 |
| 254 | 6.31 | 33.963 | 2.41 | | 200 | 6.94 | 33.94 | 2.59 | | 26.62 | 145.9 | .467 |
| 303 | 5.88 | 33.987 | 2.18 | | 250 | 6.36 | 33.96 | 2.42 | | 26.71 | 137.7 | .538 |
| 404 | 5.30 | 34.047 | 1.16 | | 300 | 5.90 | 33.99 | 2.20 | | 26.79 | 131.0 | .605 |
| 504 | 4.76 | 34.126 | .87 | | 400 | 5.32 | 34.06 | 1.20 | | 26.92 | 119.4 | .730 |
| 605 | 4.38 | 34.209 | .46 | | 500 | 4.78 | 34.12 | .88 | | 27.03 | 109.0 | .844 |
| 807 | 3.76 | 34.325 | .25 | | 600 | 4.40 | 34.20 | .48 | | 27.14 | 100.0 | .948 |
| 1001 | 3.35 | 34.408 | .44 | | 700 | 4.06 | 34.27 | .28 | | 27.23 | 91.9 | 1.044 |
| | | | | | 800 | 3.78 | 34.32 | .26 | | 27.30 | 85.5 | 1.133 |
| | | | | | 1000 | 3.35 | 34.41 | .44 | | 27.41 | 75.9 | 1.294 |
| AH 165 46 14.4 N 128 3.8 W DATE 14 JUL 64 0235 GCT WIRE 02 DRY 59.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 19 VEL 08 KTS BAR 10 SWELL DIRECTION 19 H 04 T 05 CLOUD AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.70 | 32.201 | 6.25 | | 0 | 14.70 | 32.21 | 6.26 | | 23.91 | 401.3 | 0 |
| 10 | 14.31 | 32.208 | 6.27 | | 10 | 14.31 | 32.21 | 6.28 | | 24.00 | 393.2 | .040 |
| 30 | 10.56 | 32.250 | 7.27 | | 20 | 12.59 | 32.22 | 6.77 | | 24.35 | 359.8 | .077 |
| 50 | 8.35 | 32.380 | 6.95 | | 30 | 10.56 | 32.25 | 7.28 | | 24.74 | 322.5 | .111 |
| 77 | 7.48 | 32.664 | 5.86 | | 50 | 8.35 | 32.38 | 6.95 | | 25.20 | 279.3 | .172 |
| 102 | 7.56 | 33.245 | 4.51 | | 75 | 7.49 | 32.63 | 5.96 | | 25.52 | 249.1 | .238 |
| 152 | 7.38 | 33.827 | 3.03 | | 100 | 7.54 | 33.20 | 4.62 | | 25.95 | 208.3 | .295 |
| 206 | 6.77 | 33.940 | 2.68 | | 150 | 7.40 | 33.82 | 3.06 | | 26.46 | 161.0 | .387 |
| 305 | 5.73 | 33.998 | 1.70 | | 200 | 6.85 | 33.93 | 2.69 | | 26.62 | 146.0 | .464 |
| 406 | 5.08 | 34.060 | 1.13 | | 250 | 6.28 | 33.98 | 2.25 | | 26.74 | 135.6 | .534 |
| 506 | 4.67 | 34.131 | .71 | | 300 | 5.78 | 34.00 | 1.75 | | 26.82 | 128.5 | .600 |
| 609 | 4.26 | 34.186 | .45 | | 400 | 5.11 | 34.06 | 1.16 | | 26.94 | 117.5 | .723 |
| 813 | 3.81 | 34.326 | .27 | | 500 | 4.69 | 34.13 | .73 | | 27.05 | 107.7 | .836 |
| 1013 | 3.27 | 34.413 | .33 | | 600 | 4.29 | 34.18 | .47 | | 27.13 | 100.5 | .940 |
| 1219 | 2.94 | 34.467 | .35 | | 700 | 4.04 | 34.25 | .33 | | 27.21 | 93.1 | 1.037 |
| | | | | | 800 | 3.83 | 34.32 | .27 | | 27.29 | 86.4 | 1.126 |
| | | | | | 1000 | 3.30 | 34.41 | .32 | | 27.41 | 75.3 | 1.288 |
| | | | | | 1200 | 2.96 | 34.46 | .35 | | 27.49 | 68.3 | 1.431 |
| ANH173 45 42.9 N 128 1.8 W DATE 14 JUL 64 0735 GCT WIRE 06 DRY 58.5 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 10 KTS BAR 09 SWELL DIRECTION 19 H 04 T 05 CLOUD AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.78 | 32.461 | 6.21 | | 0 | 14.78 | 32.47 | 6.21 | | 24.09 | 383.9 | 0 |
| 10 | 14.78 | 32.456 | 6.46 | | 10 | 14.78 | 32.46 | 6.46 | | 24.09 | 384.5 | .038 |
| 30 | 12.48 | 32.488 | 6.96 | | 20 | 13.87 | 32.47 | 6.74 | | 24.29 | 365.8 | .076 |
| 50 | 9.39 | 32.602 | 6.93 | | 30 | 12.48 | 32.49 | 6.96 | | 24.58 | 338.2 | .111 |
| 75 | 8.47 | 32.565 | 6.51 | | 50 | 9.39 | 32.50 | 6.94 | | 25.13 | 286.4 | .174 |
| 101 | 8.04 | 32.814 | 5.71 | | 75 | 8.47 | 32.56 | 6.52 | | 25.32 | 268.3 | .243 |
| 149 | 7.26 | 33.672 | 4.31 | | 100 | 8.05 | 32.80 | 5.74 | | 25.57 | 244.8 | .307 |
| 202 | 6.80 | 33.910 | 3.65 | | 150 | 7.25 | 33.68 | 4.29 | | 26.37 | 169.0 | .410 |
| 251 | 6.16 | 33.933 | 3.10 | | 200 | 6.82 | 33.91 | 3.67 | | 26.61 | 146.9 | .489 |
| 301 | 5.64 | 33.964 | 2.68 | | 250 | 6.17 | 33.93 | 3.11 | | 26.71 | 137.6 | .561 |
| 400 | 5.09 | 34.011 | 1.55 | | 300 | 5.65 | 33.94 | 2.69 | | 26.79 | 130.9 | .628 |
| 601 | 4.41 | 34.202 | .55 | | 400 | 5.09 | 34.02 | 1.55 | | 26.91 | 120.3 | .753 |
| 813 | 3.91 | 34.324 | .24 | | 500 | 4.70 | 34.11 | .90 | | 27.03 | 109.4 | .868 |
| 1003 | 3.41 | 34.410 | .36 | | 600 | 4.41 | 34.20 | .55 | | 27.13 | 100.5 | .973 |
| | | | | | 700 | 4.17 | 34.27 | .33 | | 27.22 | 93.0 | 1.070 |
| | | | | | 800 | 3.94 | 34.33 | .24 | | 27.28 | 86.9 | 1.160 |
| | | | | | 1000 | 3.42 | 34.41 | .36 | | 27.40 | 76.5 | 1.323 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| ANH169 44 11.0 N 127 58.1 W DATE 14 JUL 64 1304 GCT WIRE 11 DRY 60.5 WET 58.5 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 14 KTS HAR 07 SWELL DIRECTION 19 H 05 T 05 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.86 | 32.457 | | | 0 | 14.86 | 32.46 | | | 24.07 | 385.8 | 0 |
| 10 | 14.79 | 32.460 | | | 10 | 14.79 | 32.46 | | | 24.09 | 384.4 | .039 |
| 30 | 11.33 | 32.518 | | | 20 | 13.27 | 32.49 | | | 24.42 | 352.9 | .075 |
| 50 | 8.86 | 32.496 | | | 30 | 11.33 | 32.52 | | | 24.82 | 315.6 | .109 |
| 75 | 8.49 | 32.541 | | | 50 | 8.86 | 32.50 | | | 25.21 | 278.1 | .168 |
| 101 | 8.19 | 32.716 | | | 75 | 8.49 | 32.58 | | | 25.30 | 269.7 | .237 |
| 150 | 7.62 | 33.651 | | | 100 | 8.20 | 32.71 | | | 25.47 | 254.0 | .302 |
| 202 | 7.00 | 33.886 | | | 150 | 7.63 | 33.66 | | | 26.30 | 176.0 | .410 |
| 250 | 6.41 | 33.936 | | | 200 | 7.02 | 33.89 | | | 26.56 | 151.5 | .491 |
| 299 | 5.81 | 33.946 | | | 250 | 6.42 | 33.94 | | | 26.69 | 140.1 | .564 |
| 395 | 4.99 | 33.996 | | | 300 | 5.80 | 33.95 | | | 26.77 | 132.6 | .632 |
| 489 | 4.53 | 34.084 | | | 400 | 4.96 | 34.00 | | | 26.91 | 119.8 | .759 |
| 585 | 4.35 | 34.180 | | | 500 | 4.50 | 34.10 | | | 27.04 | 107.9 | .872 |
| 784 | 3.88 | 34.303 | | | 600 | 4.32 | 34.19 | | | 27.14 | 100.1 | .976 |
| 983 | 3.45 | 34.396 | | | 700 | 4.08 | 34.26 | | | 27.22 | 92.9 | 1.073 |
| | | | | | 800 | 3.84 | 34.31 | | | 27.28 | 87.0 | 1.163 |
| | | | | | 1000 | 3.41 | 34.40 | | | 27.40 | 76.9 | 1.326 |
| NH 165 44 39.1 N 127 55.0 W DATE 14 JUL 64 1805 GCT WIRE 06 DRY 59.8 WET 57.2 | | | | | | | | | | | | |
| WIND DIRECTION 22 VEL 16 KTS HAR 07 SWELL DIRECTION 22 H 05 T 05 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.23 | 32.488 | 5.94 | | 0 | 15.23 | 32.49 | 5.94 | | 24.02 | 391.1 | 0 |
| 10 | 15.20 | 32.481 | 5.96 | | 10 | 15.20 | 32.49 | 5.96 | | 24.02 | 391.3 | .039 |
| 30 | 12.99 | 32.500 | 7.57 | | 20 | 14.30 | 32.49 | 6.78 | | 24.21 | 373.0 | .077 |
| 51 | 10.25 | 32.523 | 6.83 | | 30 | 12.99 | 32.50 | 7.57 | | 24.49 | 346.7 | .113 |
| 77 | 8.95 | 32.549 | 6.55 | | 50 | 10.37 | 32.52 | 6.89 | | 24.98 | 299.9 | .178 |
| 102 | 8.26 | 32.767 | 5.86 | | 75 | 9.00 | 32.54 | 6.57 | | 25.22 | 277.3 | .250 |
| 153 | 7.57 | 33.702 | 3.70 | | 100 | 8.30 | 32.74 | 5.93 | | 25.49 | 252.6 | .316 |
| 204 | 7.21 | 33.905 | 3.30 | | 150 | 7.59 | 33.65 | 3.82 | | 26.30 | 176.2 | .423 |
| 305 | 6.00 | 33.969 | 2.43 | | 200 | 7.24 | 33.90 | 3.30 | | 26.55 | 153.0 | .506 |
| 408 | 5.11 | 34.031 | 1.58 | | 250 | 6.68 | 33.96 | 2.91 | | 26.67 | 141.9 | .579 |
| 508 | 4.58 | 34.092 | 1.05 | | 300 | 6.06 | 33.97 | 2.47 | | 26.75 | 134.5 | .649 |
| 609 | 4.42 | 34.104 | .49 | | 400 | 5.17 | 34.03 | 1.64 | | 26.91 | 120.4 | .776 |
| 811 | 3.89 | 34.326 | .41 | | 500 | 4.61 | 34.09 | 1.09 | | 27.02 | 109.8 | .891 |
| 1015 | 3.41 | 34.417 | .47 | | 600 | 4.43 | 34.18 | .53 | | 27.12 | 101.9 | .997 |
| 1228 | 2.98 | 34.483 | .65 | | 700 | 4.20 | 34.26 | .45 | | 27.21 | 94.0 | 1.095 |
| | | | | | 800 | 3.92 | 34.32 | .41 | | 27.28 | 87.2 | 1.185 |
| | | | | | 1000 | 3.44 | 34.41 | .46 | | 27.40 | 76.6 | 1.349 |
| | | | | | 1200 | 3.03 | 34.48 | .62 | | 27.49 | 68.2 | 1.494 |
| NH 145 44 39.1 N 127 27.3 W DATE 14 JUL 64 2342 GCT WIRE 05 DRY 60.5 WET 57.5 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 18 KTS HAR 08 SWELL DIRECTION 21 H 06 T 05 CLOUD 06 AMT 06 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.31 | 32.496 | 5.93 | | 0 | 15.31 | 32.50 | 5.94 | | 24.01 | 392.2 | 0 |
| 10 | 15.29 | 32.485 | 6.06 | | 10 | 15.29 | 32.49 | 6.07 | | 24.00 | 392.8 | .039 |
| 30 | 11.92 | 32.516 | 7.45 | | 20 | 13.84 | 32.50 | 6.79 | | 24.31 | 363.2 | .077 |
| 50 | 9.15 | 32.499 | 6.76 | | 30 | 11.92 | 32.52 | 7.45 | | 24.71 | 326.0 | .112 |
| 76 | 8.60 | 32.545 | 6.57 | | 50 | 9.15 | 32.50 | 6.77 | | 25.17 | 282.2 | .172 |
| 101 | 8.18 | 32.665 | 6.40 | | 75 | 8.62 | 32.54 | 6.58 | | 25.28 | 271.8 | .242 |
| 151 | 7.45 | 33.549 | 4.66 | | 100 | 8.20 | 32.66 | 6.41 | | 25.43 | 257.5 | .308 |
| 205 | 7.01 | 33.863 | 4.09 | | 150 | 7.46 | 33.53 | 4.70 | | 26.22 | 183.1 | .418 |
| 255 | 6.65 | 33.984 | 2.30 | | 200 | 7.04 | 33.85 | 4.14 | | 26.54 | 154.2 | .502 |
| 304 | 6.11 | 34.032 | 1.79 | | 250 | 6.69 | 33.98 | 2.48 | | 26.68 | 141.0 | .576 |
| 405 | 5.18 | 34.057 | 1.40 | | 300 | 6.16 | 34.03 | 1.80 | | 26.79 | 130.9 | .644 |
| 505 | 4.73 | 34.130 | .80 | | 400 | 5.22 | 34.06 | 1.41 | | 26.93 | 118.7 | .769 |
| 607 | 4.40 | 34.204 | .48 | | 500 | 4.75 | 34.13 | .83 | | 27.04 | 108.4 | .882 |
| 810 | 3.91 | 34.325 | .39 | | 600 | 4.42 | 34.20 | .49 | | 27.13 | 100.7 | .987 |
| 1010 | 3.39 | 34.416 | .36 | | 700 | 4.16 | 34.26 | .44 | | 27.21 | 93.5 | 1.084 |
| | | | | | 800 | 3.93 | 34.32 | .39 | | 27.28 | 87.4 | 1.174 |
| | | | | | 1000 | 3.42 | 34.41 | .36 | | 27.40 | 76.3 | 1.338 |
| NH 125 44 39.1 N 126 58.6 W DATE 15 JUL 64 0250 GCT WIRE 21 DRY 58.5 WET 55.8 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 14 KTS HAR 10 SWELL DIRECTION 27 H 06 T 05 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.33 | 32.418 | 5.89 | | 0 | 15.33 | 32.42 | 5.90 | | 23.94 | 398.3 | 0 |
| 10 | 15.33 | 32.376 | 6.01 | | 10 | 15.33 | 32.38 | 6.02 | | 23.91 | 401.7 | .040 |
| 30 | 12.04 | 32.477 | 7.08 | | 20 | 13.93 | 32.41 | 6.58 | | 24.23 | 371.0 | .079 |
| 47 | 9.67 | 32.531 | 6.73 | | 30 | 12.04 | 32.48 | 7.08 | | 24.65 | 331.1 | .114 |
| 71 | 8.77 | 32.554 | 6.66 | | 50 | 9.47 | 32.52 | 6.72 | | 25.13 | 285.5 | .175 |
| 95 | 8.18 | 32.556 | 6.16 | | 75 | 8.66 | 32.56 | 6.61 | | 25.29 | 271.0 | .245 |
| 142 | 7.51 | 33.592 | 4.05 | | 100 | 8.08 | 32.75 | 5.94 | | 25.52 | 249.3 | .310 |
| 192 | 7.21 | 33.909 | 3.17 | | 150 | 7.44 | 33.67 | 3.87 | | 26.34 | 172.2 | .415 |
| 239 | 7.02 | 33.988 | 2.16 | | 200 | 7.19 | 33.83 | 2.98 | | 26.58 | 150.3 | .496 |
| 286 | 6.40 | 33.998 | 1.96 | | 250 | 6.89 | 33.99 | 2.08 | | 26.67 | 142.5 | .569 |
| 380 | 5.49 | 34.060 | 1.21 | | 300 | 6.24 | 34.01 | 1.85 | | 26.76 | 133.7 | .638 |
| 475 | 4.99 | 34.105 | .77 | | 400 | 5.36 | 34.07 | 1.10 | | 26.92 | 119.5 | .765 |
| 570 | 4.65 | 34.181 | .49 | | 500 | 4.89 | 34.12 | .68 | | 27.02 | 110.3 | .879 |
| 760 | 4.10 | 34.328 | .25 | | 600 | 4.55 | 34.20 | .42 | | 27.12 | 101.8 | .985 |
| | | | | | 700 | 4.25 | 34.28 | .28 | | 27.22 | 93.2 | 1.083 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 105 44 39.1 N 125 35.1 W DATE 15 JUL 64 0745 GCT WIRE 15 DRY 54.5 WET 58.5 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 18 KTS BAR 12 SWELL DIRECTION 24 H 06 T 05 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.28 | 26.488 | 5.80 | | 0 | 17.28 | 26.49 | 5.81 | | 18.98 | 874.2 | 0 |
| 10 | 14.55 | 31.949 | 6.23 | | 10 | 14.55 | 31.95 | 6.23 | | 23.75 | 417.0 | .065 |
| 30 | 12.48 | 32.316 | 6.90 | | 20 | 13.33 | 32.14 | 6.63 | | 24.14 | 380.1 | .104 |
| 47 | 9.54 | 32.333 | 6.79 | | 30 | 12.48 | 32.32 | 6.91 | | 24.45 | 350.8 | .141 |
| 71 | 8.30 | 32.662 | 5.94 | | 50 | 9.26 | 32.35 | 6.73 | | 25.03 | 295.1 | .206 |
| 95 | 8.15 | 33.395 | 4.06 | | 75 | 8.24 | 32.77 | 5.63 | | 25.52 | 249.2 | .274 |
| 142 | 7.58 | 33.859 | 3.00 | | 100 | 8.10 | 33.48 | 3.84 | | 26.10 | 194.7 | .329 |
| 192 | 7.09 | 33.948 | 2.96 | | 150 | 7.50 | 33.89 | 2.97 | | 26.50 | 157.0 | .417 |
| 240 | 6.48 | 33.984 | 2.62 | | 200 | 6.99 | 33.96 | 2.92 | | 26.63 | 145.7 | .493 |
| 286 | 5.99 | 33.989 | 2.21 | | 250 | 6.36 | 33.99 | 2.54 | | 26.73 | 136.1 | .563 |
| 381 | 5.46 | 34.056 | 1.30 | | 300 | 5.89 | 34.00 | 2.07 | | 26.80 | 130.0 | .630 |
| 475 | 5.02 | 34.130 | .71 | | 400 | 5.37 | 34.07 | 1.15 | | 26.92 | 119.4 | .754 |
| 571 | 4.63 | 34.181 | .48 | | 500 | 4.91 | 34.15 | .63 | | 27.04 | 108.8 | .868 |
| 797 | 3.99 | 34.346 | .28 | | 600 | 4.54 | 34.21 | .43 | | 27.13 | 101.1 | .973 |
| 994 | 3.48 | 34.432 | .41 | | 700 | 4.24 | 34.28 | .31 | | 27.22 | 93.0 | 1.070 |
| | | | | | 800 | 3.98 | 34.35 | .28 | | 27.30 | 85.9 | 1.160 |
| | | | | | 1000 | 3.46 | 34.43 | .41 | | 27.42 | 75.2 | 1.320 |
| NH 085 44 39.1 N 126 3.7 W DATE 15 JUL 64 1342 GCT WIRE 10 DRY 58.5 WET 54.2 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 18 KTS BAR 14 SWELL DIRECTION 24 H 06 T 06 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.72 | 28.139 | 5.79 | | 0 | 16.73 | 28.14 | 5.80 | | 20.36 | 741.0 | 0 |
| 10 | 14.26 | 32.221 | 6.19 | | 10 | 14.26 | 32.23 | 6.19 | | 24.02 | 391.3 | .057 |
| 30 | 13.15 | 32.321 | 6.54 | | 20 | 13.57 | 32.27 | 6.41 | | 24.20 | 374.5 | .095 |
| 50 | 9.19 | 32.333 | 6.80 | | 30 | 13.15 | 32.33 | 6.55 | | 24.32 | 362.9 | .132 |
| 76 | 8.34 | 32.502 | 6.41 | | 50 | 9.19 | 32.34 | 6.81 | | 25.03 | 295.1 | .198 |
| 100 | 8.00 | 33.095 | 4.93 | | 75 | 8.37 | 32.49 | 6.44 | | 25.28 | 272.2 | .268 |
| 149 | 7.69 | 33.790 | 3.60 | | 100 | 8.00 | 33.10 | 4.93 | | 25.81 | 221.9 | .330 |
| 202 | 7.09 | 33.946 | 3.12 | | 150 | 7.68 | 33.80 | 3.58 | | 26.40 | 166.4 | .427 |
| 252 | 6.30 | 33.949 | 3.03 | | 200 | 7.12 | 33.94 | 3.13 | | 26.59 | 148.7 | .506 |
| 301 | 5.62 | 33.965 | 2.37 | | 250 | 6.33 | 33.95 | 3.04 | | 26.71 | 138.4 | .578 |
| 401 | 5.04 | 34.043 | 1.27 | | 300 | 5.63 | 33.96 | 2.39 | | 26.81 | 129.2 | .645 |
| 501 | 4.96 | 34.169 | .64 | | 400 | 5.04 | 34.04 | 1.28 | | 26.94 | 117.7 | .768 |
| 1005 | 3.42 | 34.438 | .34 | | 500 | 4.96 | 34.17 | .64 | | 27.05 | 107.8 | .881 |
| | | | | | 600 | 4.81 | 34.27 | .58 | | 27.15 | 100.0 | .985 |
| | | | | | 700 | 4.58 | 34.35 | .52 | | 27.23 | 92.1 | 1.081 |
| | | | | | 800 | 4.28 | 34.40 | .46 | | 27.31 | 85.3 | 1.169 |
| | | | | | 1000 | 3.44 | 34.44 | .34 | | 27.42 | 74.9 | 1.329 |
| NH 065 44 39.1 N 125 35.0 W DATE 15 JUL 64 1804 GCT WIRE 08 DRY 60.0 WET 54.2 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 21 KTS BAR 16 SWELL DIRECTION 25 H 07 T 06 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.08 | 27.386 | 5.80 | | 0 | 17.08 | 27.39 | 5.81 | | 19.71 | 804.0 | 0 |
| 10 | 14.12 | 30.606 | 6.54 | | 10 | 14.13 | 30.61 | 6.55 | | 22.80 | 507.1 | .066 |
| 30 | 9.15 | 32.182 | 6.70 | | 20 | 11.34 | 31.87 | 6.62 | | 24.31 | 363.9 | .109 |
| 50 | 7.69 | 32.693 | 5.60 | | 30 | 9.15 | 32.19 | 6.70 | | 24.92 | 305.4 | .143 |
| 77 | 7.56 | 33.243 | 4.37 | | 50 | 7.69 | 32.70 | 5.60 | | 25.54 | 246.9 | .198 |
| 100 | 7.58 | 33.653 | 3.32 | | 75 | 7.57 | 33.21 | 4.46 | | 25.96 | 207.6 | .255 |
| 149 | 7.27 | 33.930 | 2.51 | | 100 | 7.58 | 33.66 | 3.33 | | 26.31 | 174.6 | .302 |
| 202 | 6.64 | 33.991 | 1.72 | | 150 | 7.26 | 33.93 | 2.49 | | 26.57 | 150.4 | .384 |
| 300 | 6.07 | 34.082 | 1.37 | | 200 | 6.66 | 33.99 | 1.75 | | 26.69 | 139.1 | .456 |
| 400 | 5.52 | 34.105 | .96 | | 250 | 6.31 | 34.04 | 1.46 | | 26.78 | 131.3 | .523 |
| 498 | 5.06 | 34.180 | .57 | | 300 | 6.07 | 34.09 | 1.38 | | 26.85 | 125.6 | .588 |
| 600 | 4.69 | 34.243 | .37 | | 400 | 5.53 | 34.11 | .97 | | 26.94 | 118.5 | .710 |
| 804 | 4.07 | 34.357 | .25 | | 500 | 5.05 | 34.18 | .56 | | 27.05 | 107.9 | .823 |
| 1006 | 3.54 | 34.443 | .36 | | 600 | 4.69 | 34.25 | .38 | | 27.14 | 100.3 | .927 |
| 1215 | 3.12 | 34.490 | .52 | | 700 | 4.37 | 34.30 | .27 | | 27.22 | 93.1 | 1.023 |
| | | | | | 800 | 4.08 | 34.35 | .25 | | 27.29 | 86.5 | 1.113 |
| | | | | | 1000 | 3.55 | 34.44 | .35 | | 27.41 | 75.7 | 1.275 |
| | | | | | 1200 | 3.15 | 34.49 | .51 | | 27.49 | 68.6 | 1.420 |
| NH 045 44 39.1 N 125 12.0 W DATE 15 JUL 64 2145 GCT WIRE 09 DRY 58.5 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 18 KTS BAR 19 SWELL DIRECTION 26 H 07 T 05 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.32 | 30.447 | 5.91 | | 0 | 16.32 | 30.45 | 5.92 | | 22.21 | 563.5 | 0 |
| 10 | 16.18 | 30.565 | 5.96 | | 10 | 16.18 | 30.57 | 5.96 | | 22.33 | 552.1 | .056 |
| 20 | 11.24 | 32.150 | 7.35 | | 20 | 11.24 | 32.15 | 7.35 | | 24.55 | 341.0 | .100 |
| 30 | 9.54 | 32.235 | 7.02 | | 30 | 9.54 | 32.24 | 7.03 | | 24.90 | 307.4 | .133 |
| 50 | 7.96 | 32.412 | 6.23 | | 50 | 7.96 | 32.42 | 6.23 | | 25.28 | 271.5 | .191 |
| 74 | 7.68 | 32.960 | 5.03 | | 75 | 7.68 | 32.99 | 4.96 | | 25.77 | 225.3 | .253 |
| 99 | 7.80 | 33.053 | 3.35 | | 100 | 7.79 | 33.67 | 3.31 | | 26.29 | 176.7 | .303 |
| 148 | 7.16 | 33.979 | 2.23 | | 150 | 7.14 | 33.99 | 2.20 | | 26.63 | 144.8 | .383 |
| 198 | 6.79 | 34.010 | 1.85 | | 200 | 6.73 | 34.00 | 1.85 | | 26.69 | 139.3 | .454 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 035 44 39.1 N 124 53.8 W DATE 16 JUL 64 0010 GCT WIRE 22 DRY 58.0 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 26 VEL 15 KTS BAR 20 SWELL DIRECTION 25 H 08 T 06 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.67 | 29.177 | 5.93 | | 0 | 16.67 | 29.18 | 5.94 | | 21.14 | 663.9 | 0 |
| 10 | 15.44 | 30.921 | 6.49 | | 10 | 15.44 | 30.93 | 6.49 | | 22.77 | 510.5 | .059 |
| 20 | 12.56 | 32.044 | 7.32 | | 20 | 12.56 | 32.05 | 7.32 | | 24.22 | 372.1 | .103 |
| 30 | 10.38 | 32.178 | 6.46 | | 30 | 10.38 | 32.18 | 6.46 | | 24.72 | 324.9 | .138 |
| 47 | 8.11 | 32.348 | 6.41 | | 50 | 7.96 | 32.39 | 6.33 | | 25.26 | 273.3 | .197 |
| 73 | 7.65 | 32.709 | 5.46 | | 75 | 7.63 | 32.84 | 5.39 | | 25.66 | 235.4 | .261 |
| 99 | 7.50 | 33.375 | 4.46 | | 100 | 7.49 | 33.39 | 4.40 | | 26.11 | 193.1 | .315 |
| 144 | 7.16 | 33.921 | 1.93 | | 150 | 7.10 | 33.96 | 1.76 | | 26.61 | 146.2 | .399 |
| 192 | 6.52 | 34.011 | 1.65 | | 200 | 6.78 | 34.00 | | | 26.69 | 139.3 | .471 |
| NH 025 44 39.1 N 124 38.8 W DATE 16 JUL 64 0311 GCT WIRE 03 DRY 59.5 WET 55.5 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 13 KTS BAR 20 SWELL DIRECTION 26 H 08 T 08 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.15 | 30.167 | 5.87 | | 0 | 16.15 | 30.17 | 5.88 | | 22.04 | 580.3 | 0 |
| 10 | 13.11 | 31.860 | 6.91 | | 10 | 13.11 | 31.86 | 6.92 | | 23.97 | 395.6 | .049 |
| 20 | 9.24 | 32.272 | 6.90 | | 20 | 9.24 | 32.28 | 6.91 | | 24.98 | 299.9 | .084 |
| 30 | 8.08 | 32.442 | 5.93 | | 30 | 8.08 | 32.45 | 5.94 | | 25.29 | 270.7 | .112 |
| 50 | 7.51 | 32.909 | 4.94 | | 50 | 7.52 | 32.91 | 4.94 | | 25.73 | 228.3 | .162 |
| 77 | 7.46 | 33.454 | 3.83 | | 75 | 7.46 | 33.42 | 3.91 | | 26.14 | 190.4 | .214 |
| 105 | 7.40 | 33.812 | 2.50 | | 100 | 7.42 | 33.76 | 2.72 | | 26.41 | 164.5 | .259 |
| 155 | 6.85 | 33.972 | 1.73 | | 150 | 6.92 | 33.97 | 1.75 | | 26.65 | 142.9 | .335 |
| 211 | 6.28 | 34.039 | 1.47 | | 200 | 6.39 | 34.04 | 1.47 | | 26.77 | 132.0 | .404 |
| NH 015 44 39.1 N 124 24.7 W DATE 16 JUL 64 0536 GCT WIRE 09 DRY 58.5 WET 54.3 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 07 KTS BAR 20 SWELL DIRECTION 25 H 08 T 08 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.90 | 31.537 | 6.17 | | 0 | 14.90 | 31.54 | 6.18 | | 23.36 | 454.0 | 0 |
| 10 | 12.03 | 31.772 | 6.10 | | 10 | 12.03 | 31.78 | 6.10 | | 24.11 | 382.5 | .042 |
| 20 | 7.96 | 32.762 | 4.73 | | 20 | 7.96 | 32.76 | 4.73 | | 25.55 | 245.8 | .073 |
| 30 | 7.42 | 33.298 | 3.86 | | 30 | 7.43 | 33.30 | 3.86 | | 26.05 | 197.9 | .095 |
| 40 | 7.39 | 33.545 | 3.26 | | 50 | 7.43 | 33.79 | 2.27 | | 26.44 | 161.6 | .131 |
| 50 | 7.42 | 33.789 | 2.26 | | 75 | 7.03 | 33.96 | 1.58 | | 26.63 | 144.0 | .170 |
| 75 | 7.02 | 33.958 | 1.58 | | 100 | 7.42 | 33.76 | | | 26.41 | 164.5 | .208 |
| NH 005 44 39.1 N 124 10.8 W DATE 16 JUL 64 0812 GCT WIRE 04 DRY 56.5 WET 53.5 | | | | | | | | | | | | |
| WIND DIRECTION VEL 00 KTS BAR 27 SWELL DIRECTION 25 H 06 T 06 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.05 | 32.717 | 5.41 | | 0 | 10.05 | 32.72 | 5.42 | | 25.19 | 279.2 | 0 |
| 10 | 8.41 | 33.396 | 3.50 | | 10 | 8.41 | 33.39 | 3.51 | | 25.98 | 204.9 | .024 |
| 20 | 7.47 | 33.732 | 2.53 | | 20 | 7.47 | 33.74 | 2.53 | | 26.38 | 166.1 | .043 |
| 30 | 7.38 | 33.866 | 2.35 | | 30 | 7.39 | 33.87 | 2.35 | | 26.50 | 155.1 | .059 |
| 40 | 7.23 | 33.909 | 1.93 | | 50 | 7.21 | 33.93 | 1.21 | | 26.58 | 148.3 | .089 |
| 50 | 7.21 | 33.930 | 1.21 | | 75 | 7.03 | 33.96 | | | 26.63 | 144.0 | .126 |
| YH 004 44 19.2 N 124 11.9 W DATE 18 JUL 64 2046 GCT WIRE 06 DRY 60.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 06 KTS BAR SWELL DIRECTION 27 H 04 T 06 CLOUD 04 AMT 06 WEATHER | | | | | | | | | | | | |
| 0 | 14.75 | 32.238 | 7.15 | | 0 | 14.75 | 32.24 | 7.16 | | 23.93 | 399.6 | 0 |
| 10 | 10.30 | 33.140 | 4.63 | | 10 | 10.30 | 33.14 | 4.64 | | 25.48 | 252.1 | .033 |
| 20 | 8.85 | 33.489 | 2.93 | | 20 | 8.85 | 33.49 | 2.84 | | 25.99 | 203.8 | .055 |
| 30 | 7.62 | 33.742 | 1.57 | | 30 | 7.63 | 33.75 | 1.58 | | 26.37 | 167.5 | .074 |
| 40 | 7.40 | 33.839 | 1.32 | | 50 | 7.34 | 33.89 | 1.05 | | 26.53 | 153.2 | .106 |
| 52 | 7.33 | 33.898 | .99 | | 75 | 7.03 | 33.96 | | | 26.63 | 144.0 | .143 |
| SH 007 43 59.1 N 127 17.9 W DATE 18 JUL 64 2337 GCT WIRE 04 DRY 62.5 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 30 VEL 10 KTS BAR 22 SWELL DIRECTION 27 H 04 T 06 CLOUD 06 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.07 | 32.341 | 6.93 | | 0 | 15.07 | 32.35 | 6.94 | | 23.94 | 398.6 | 0 |
| 10 | 11.83 | 33.145 | 5.57 | | 10 | 11.83 | 33.15 | 5.57 | | 25.21 | 277.7 | .034 |
| 20 | 8.90 | 33.495 | 3.40 | | 20 | 8.90 | 33.50 | 3.41 | | 25.99 | 204.1 | .058 |
| 30 | 8.06 | 33.727 | 2.40 | | 30 | 8.06 | 33.73 | 2.40 | | 26.30 | 174.8 | .077 |
| 40 | 7.46 | 33.907 | 1.49 | | 50 | 7.38 | 33.94 | 1.40 | | 26.56 | 149.9 | .109 |
| 50 | 7.37 | 33.937 | 1.40 | | 75 | 7.20 | 33.97 | 2.63 | | 26.61 | 145.6 | .146 |
| 75 | 7.20 | 33.969 | 2.62 | | 100 | 7.42 | 33.76 | | | 26.41 | 164.5 | .185 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| UH 008 44 39.2 N 124 32.6 W DATE 19 JUL 64 0229 GCT WIRE 08 DRY 61.0 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 14 KTS BAR 21 SWELL DIRECTION 30 H 04 T 09 CLOUD 04 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.16 | 32.806 | 7.16 | | 0 | 15.16 | 32.81 | 7.17 | | 24.28 | 366.4 | 0 |
| 10 | 12.23 | 33.000 | | | 10 | 12.23 | 33.00 | 4.37 | | 25.02 | 295.5 | .033 |
| 20 | 8.16 | 33.347 | 3.43 | | 20 | 8.16 | 33.35 | 3.43 | | 25.98 | 204.3 | .058 |
| 30 | 8.14 | 33.736 | 2.49 | | 30 | 8.14 | 33.74 | 2.49 | | 26.29 | 175.4 | .077 |
| 50 | 7.32 | 33.921 | 1.66 | | 50 | 7.32 | 33.93 | 1.67 | | 26.55 | 150.4 | .110 |
| 77 | 7.12 | 33.971 | 1.14 | | 75 | 7.13 | 33.97 | 1.16 | | 26.61 | 145.1 | .147 |
| 102 | 7.04 | 33.981 | .79 | | 100 | 7.04 | 33.98 | .81 | | 26.64 | 143.3 | .183 |
| CH 005 43 20.2 N 124 29.0 W DATE 19 JUL 64 0514 GCT WIRE 05 DRY 59.0 WET 58.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 14 KTS BAR 21 SWELL DIRECTION 34 H 04 T 05 CLOUD 04 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 14.46 | 32.259 | 6.93 | | 0 | 14.46 | 32.26 | 6.94 | | 24.01 | 392.2 | 0 |
| 10 | 11.60 | 32.609 | 6.32 | | 10 | 11.60 | 32.70 | 6.32 | | 24.91 | 306.5 | .035 |
| 20 | 9.25 | 33.133 | 4.19 | | 20 | 9.25 | 33.34 | 4.19 | | 25.80 | 221.4 | .061 |
| 30 | 8.28 | 33.473 | 3.20 | | 30 | 8.28 | 33.48 | 3.21 | | 26.06 | 196.8 | .082 |
| 50 | 7.74 | 33.817 | 2.15 | | 50 | 7.74 | 33.82 | 2.15 | | 26.41 | 163.9 | .118 |
| 75 | 7.27 | 33.967 | 1.99 | | 75 | 7.28 | 33.97 | 1.99 | | 26.60 | 146.7 | .157 |
| CH 015 43 21.0 N 124 46.0 W DATE 19 JUL 64 0908 GCT WIRE 15 DRY 60.0 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 14 KTS BAR 21 SWELL DIRECTION 30 H 04 T 06 CLOUD 00 AMT 00 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.18 | 30.435 | 6.07 | | 0 | 16.18 | 30.44 | 6.07 | | 22.24 | 561.4 | 0 |
| 10 | 15.20 | 30.944 | 6.56 | | 10 | 15.20 | 30.95 | 6.56 | | 22.84 | 503.8 | .053 |
| 20 | 9.69 | 32.309 | 6.21 | | 20 | 9.69 | 32.31 | 6.21 | | 24.93 | 304.1 | .094 |
| 30 | 8.37 | 32.610 | 5.23 | | 30 | 8.38 | 32.61 | 5.23 | | 25.37 | 262.2 | .122 |
| 50 | 7.85 | 33.012 | 4.64 | | 50 | 7.85 | 33.02 | 4.65 | | 25.77 | 225.3 | .171 |
| 77 | 8.00 | 33.715 | 2.77 | | 75 | 7.98 | 33.67 | 2.91 | | 26.26 | 179.0 | .221 |
| 103 | 7.45 | 33.898 | 2.17 | | 100 | 7.53 | 33.89 | 2.20 | | 26.50 | 156.4 | .263 |
| 150 | 6.84 | 34.012 | 2.01 | | 150 | 6.84 | 34.02 | 2.02 | | 26.69 | 138.6 | .337 |
| 200 | 6.54 | 34.037 | 1.67 | | 200 | 6.54 | 34.04 | 1.67 | | 26.75 | 133.8 | .405 |
| CH 025 43 20.5 N 124 57.4 W DATE 19 JUL 64 1232 GCT WIRE 16 DRY 60.0 WET 55.8 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 16 KTS BAR 20 SWELL DIRECTION 30 H 05 T 06 CLOUD 06 AMT 03 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.33 | 30.344 | | | 0 | 16.33 | 30.35 | | | 22.13 | 571.2 | 0 |
| 10 | 15.60 | 30.819 | | | 10 | 15.60 | 30.82 | | | 22.66 | 521.3 | .055 |
| 25 | 10.53 | 32.216 | 7.06 | | 20 | 12.30 | 31.78 | | | 24.06 | 387.5 | .100 |
| 40 | 8.70 | 32.329 | 6.25 | | 30 | 9.68 | 32.31 | 6.92 | | 24.93 | 304.5 | .135 |
| 60 | 8.03 | 32.981 | 4.91 | | 50 | 8.21 | 32.63 | 5.59 | | 25.41 | 258.8 | .191 |
| 87 | 7.91 | 33.508 | 3.41 | | 75 | 7.92 | 33.31 | 4.09 | | 25.99 | 204.7 | .249 |
| 110 | 7.65 | 33.805 | 1.68 | | 100 | 7.77 | 33.69 | 2.39 | | 26.31 | 174.6 | .296 |
| 155 | 7.03 | 33.992 | 1.53 | | 150 | 7.10 | 33.99 | 1.55 | | 26.64 | 144.1 | .376 |
| 202 | 6.62 | 34.016 | | | 200 | 6.63 | 34.01 | 1.47 | | 26.72 | 136.7 | .446 |
| 289 | 6.08 | 34.064 | 1.35 | | 250 | 6.30 | 34.04 | 1.41 | | 26.78 | 131.1 | .513 |
| 382 | 5.58 | 34.129 | .95 | | 300 | 6.02 | 34.07 | 1.30 | | 26.84 | 126.0 | .577 |
| 480 | 5.13 | 34.165 | .73 | | 400 | 5.49 | 34.14 | .90 | | 26.96 | 116.2 | .698 |
| 578 | 4.77 | 34.214 | .46 | | 500 | 5.05 | 34.17 | .68 | | 27.04 | 108.4 | .811 |
| CH 035 43 20.5 N 125 10.4 W DATE 19 JUL 64 1440 GCT WIRE 19 DRY 60.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 15 KTS BAR 10 SWELL DIRECTION 01 H 04 T 05 CLOUD 04 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.64 | 30.269 | 4.91 | | 0 | 16.65 | 30.27 | 4.91 | | 22.01 | 583.4 | 0 |
| 10 | 16.34 | 30.454 | 5.25 | | 10 | 16.34 | 30.46 | 5.26 | | 22.21 | 563.6 | .057 |
| 31 | 9.19 | 32.127 | 6.72 | | 20 | 13.09 | 31.22 | 6.15 | | 23.48 | 442.4 | .108 |
| 48 | 8.08 | 32.512 | 4.83 | | 30 | 9.56 | 32.04 | 6.69 | | 24.74 | 322.2 | .146 |
| 72 | 8.14 | 33.031 | 4.25 | | 50 | 8.08 | 32.55 | 4.74 | | 25.37 | 262.9 | .204 |
| 96 | 7.93 | 33.614 | 3.55 | | 75 | 8.12 | 33.11 | 4.17 | | 25.80 | 222.5 | .265 |
| 144 | 7.49 | 33.929 | 1.97 | | 100 | 7.89 | 33.67 | 3.39 | | 26.27 | 178.2 | .315 |
| 191 | 7.13 | 33.984 | 1.85 | | 150 | 7.45 | 33.94 | 1.92 | | 26.55 | 152.2 | .398 |
| 239 | 6.60 | 34.027 | 1.73 | | 200 | 7.03 | 33.99 | 1.84 | | 26.65 | 143.6 | .472 |
| 284 | 6.21 | 34.044 | 1.30 | | 250 | 6.50 | 34.03 | 1.63 | | 26.75 | 134.4 | .541 |
| 374 | 5.66 | 34.087 | 1.05 | | 300 | 6.09 | 34.05 | 1.23 | | 26.82 | 128.4 | .607 |
| 464 | 5.28 | 34.146 | .74 | | 400 | 5.54 | 34.11 | .96 | | 26.93 | 118.6 | .730 |
| 553 | 4.86 | 34.202 | .45 | | 500 | 5.11 | 34.17 | .61 | | 27.03 | 109.6 | .844 |
| 743 | 4.24 | 34.337 | .27 | | 600 | 4.68 | 34.24 | .37 | | 27.13 | 100.9 | .949 |
| 945 | 3.78 | 34.464 | .29 | | 700 | 4.36 | 34.31 | .28 | | 27.23 | 92.4 | 1.046 |
| | | | | | 800 | 4.09 | 34.36 | .27 | | 27.30 | 85.9 | 1.135 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 045 43 20.5 N 125 24.3 W DATE 19 JUL 64 1741 GCT WIRE 08 DRY 61.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 14 KTS BAR 20 SWELL DIRECTION 02 H 04 T 05 CLOUD 04 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.02 | 30.121 | 5.77 | | 0 | 17.02 | 30.13 | 5.78 | | 21.81 | 602.5 | 0 |
| 10 | 13.96 | 31.528 | 6.48 | | 10 | 13.96 | 31.53 | 6.48 | | 23.55 | 436.2 | .052 |
| 31 | 9.26 | | 6.96 | | 20 | 11.35 | 32.11 | 6.88 | | 24.49 | 346.6 | .091 |
| 51 | 8.10 | 32.508 | 6.12 | | 30 | 9.42 | 32.46 | 6.94 | | 25.10 | 288.8 | .123 |
| 77 | 8.06 | 33.316 | 4.18 | | 50 | 8.11 | 32.48 | 6.18 | | 25.31 | 268.5 | .179 |
| 102 | 7.82 | 33.504 | 3.36 | | 75 | 8.06 | 33.26 | 4.33 | | 25.93 | 210.6 | .238 |
| 154 | 7.38 | 33.965 | 2.30 | | 100 | 7.84 | 33.66 | 3.40 | | 26.28 | 177.7 | .287 |
| 206 | 6.81 | 34.016 | 1.96 | | 150 | 7.41 | 33.96 | 2.35 | | 26.57 | 150.6 | .369 |
| 258 | 6.36 | 34.032 | 1.74 | | 200 | 6.88 | 34.01 | 1.98 | | 26.68 | 140.3 | .442 |
| 306 | 6.04 | 34.067 | 1.74 | | 250 | 6.42 | 34.03 | 1.78 | | 26.76 | 133.5 | .510 |
| 408 | 5.42 | 34.166 | .83 | | 300 | 6.08 | 34.06 | 1.39 | | 26.83 | 127.5 | .575 |
| 506 | 4.92 | 34.183 | .54 | | 400 | 5.47 | 34.16 | .86 | | 26.98 | 114.1 | .696 |
| 612 | 4.59 | 34.274 | .40 | | 500 | 4.95 | 34.18 | .55 | | 27.06 | 106.6 | .806 |
| 818 | 4.10 | 34.345 | .26 | | 600 | 4.62 | 34.26 | .41 | | 27.16 | 98.3 | .909 |
| 1029 | 3.49 | 34.454 | .37 | | 700 | 4.37 | 34.31 | .31 | | 27.23 | 92.5 | 1.004 |
| | | | | | 800 | 4.14 | 34.34 | .26 | | 27.27 | 88.2 | 1.094 |
| | | | | | 1000 | 3.58 | 34.44 | .34 | | 27.41 | 76.3 | 1.259 |
| CH 065 43 20.5 N 125 51.3 W DATE 19 JUL 64 2111 GCT WIRE 06 DRY 61.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 10 KTS BAR 20 SWELL DIRECTION 02 H 04 T 06 CLOUD 06 AMT 04 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.82 | 30.924 | 5.64 | | 0 | 16.82 | 30.93 | 5.65 | | 22.46 | 539.4 | 0 |
| 10 | 15.24 | 32.029 | 6.48 | | 10 | 15.24 | 32.03 | 6.48 | | 23.66 | 425.2 | .048 |
| 31 | 10.20 | 32.458 | 6.90 | | 20 | 12.79 | 32.39 | 6.68 | | 24.44 | 351.2 | .087 |
| 51 | 8.26 | 32.912 | 4.75 | | 30 | 10.43 | 32.44 | 6.88 | | 24.91 | 306.8 | .120 |
| 77 | 7.99 | 33.574 | 3.33 | | 50 | 8.31 | 32.89 | 4.88 | | 25.60 | 241.2 | .175 |
| 103 | 7.79 | 33.781 | 3.05 | | 75 | 8.01 | 33.53 | 3.39 | | 26.14 | 189.7 | .229 |
| 154 | 7.11 | 34.000 | 2.14 | | 100 | 7.81 | 33.77 | 3.06 | | 26.36 | 169.4 | .273 |
| 207 | 6.58 | 34.031 | 1.71 | | 150 | 7.17 | 33.99 | 2.21 | | 26.63 | 144.9 | .352 |
| 259 | 6.15 | 34.063 | 1.21 | | 200 | 6.64 | 34.03 | 1.75 | | 26.73 | 135.9 | .422 |
| 309 | 5.89 | 34.083 | 1.16 | | 250 | 6.22 | 34.06 | 1.28 | | 26.81 | 128.8 | .488 |
| 412 | 5.28 | 34.142 | .90 | | 300 | 5.93 | 34.08 | 1.17 | | 26.86 | 124.3 | .552 |
| 515 | 4.92 | 34.216 | .49 | | 400 | 5.35 | 34.13 | .94 | | 26.98 | 114.5 | .671 |
| 615 | 4.52 | 34.244 | .34 | | 500 | 4.97 | 34.21 | .55 | | 27.08 | 105.1 | .781 |
| 820 | 3.94 | 34.388 | .29 | | 600 | 4.58 | 34.24 | .35 | | 27.15 | 99.5 | .883 |
| 1029 | 3.61 | 34.443 | .37 | | 700 | 4.24 | 34.30 | .29 | | 27.23 | 91.6 | .978 |
| | | | | | 800 | 3.98 | 34.37 | .29 | | 27.32 | 84.0 | 1.066 |
| | | | | | 1000 | 3.64 | 34.44 | .35 | | 27.41 | 76.7 | 1.227 |
| CH 085 43 20.4 N 126 19.1 W DATE 20 JUL 64 0049 GCT WIRE 04 DRY 63.0 WET 57.2 | | | | | | | | | | | | |
| WIND DIRECTION 31 VEL 06 KTS BAR 19 SWELL DIRECTION 29 H 03 T 06 CLOUD 06 AMT 03 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.67 | 31.377 | 5.69 | | 0 | 16.67 | 31.38 | 5.69 | | 22.85 | 503.0 | 0 |
| 10 | 12.23 | 32.150 | 6.98 | | 10 | 12.23 | 32.15 | 6.98 | | 24.37 | 358.2 | .043 |
| 31 | 8.58 | 33.060 | 4.28 | | 20 | 9.80 | 32.67 | 6.06 | | 25.19 | 279.4 | .075 |
| 51 | 8.26 | 33.537 | 3.11 | | 30 | 8.63 | 33.03 | 4.47 | | 25.66 | 234.9 | .101 |
| 77 | 7.82 | 33.834 | 2.45 | | 50 | 8.28 | 33.52 | 3.15 | | 26.10 | 193.8 | .143 |
| 103 | 7.60 | 33.920 | 2.37 | | 75 | 7.85 | 33.82 | 2.47 | | 26.40 | 165.8 | .188 |
| 154 | 7.06 | 33.993 | 2.00 | | 100 | 7.62 | 33.92 | 2.38 | | 26.50 | 155.9 | .229 |
| 207 | 6.74 | 34.010 | 1.88 | | 150 | 7.10 | 33.99 | 2.03 | | 26.64 | 144.0 | .304 |
| 260 | 6.19 | 34.052 | 1.48 | | 200 | 6.78 | 34.01 | 1.90 | | 26.69 | 139.1 | .374 |
| 310 | 5.91 | 34.086 | 1.17 | | 250 | 6.29 | 34.04 | 1.56 | | 26.79 | 130.9 | .442 |
| 412 | 5.41 | 34.135 | .78 | | 300 | 5.96 | 34.08 | 1.23 | | 26.86 | 124.6 | .506 |
| 516 | 4.95 | 34.189 | .52 | | 400 | 5.47 | 34.13 | .81 | | 26.96 | 116.3 | .626 |
| 616 | 4.52 | 34.269 | .32 | | 500 | 5.02 | 34.18 | .55 | | 27.05 | 107.7 | .738 |
| 821 | 3.91 | 34.372 | .26 | | 600 | 4.59 | 34.26 | .35 | | 27.16 | 98.4 | .841 |
| 1032 | 3.33 | 34.464 | .37 | | 700 | 4.25 | 34.32 | .30 | | 27.24 | 90.5 | .935 |
| | | | | | 800 | 3.96 | 34.36 | .27 | | 27.31 | 84.5 | 1.023 |
| | | | | | 1000 | 3.41 | 34.44 | .34 | | 27.43 | 74.0 | 1.181 |
| CH 105 43 20.5 N 126 45.8 W DATE 20 JUL 64 0517 GCT WIRE 04 DRY 61.2 WET 57.2 | | | | | | | | | | | | |
| WIND DIRECTION 20 VEL 08 KTS BAR 17 SWELL DIRECTION 28 H 03 T 09 CLOUD 06 AMT 01 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.76 | 31.157 | 5.72 | | 0 | 16.76 | 31.16 | 5.72 | | 22.66 | 521.1 | 0 |
| 10 | 16.45 | 31.470 | 5.81 | | 10 | 16.46 | 31.48 | 5.82 | | 22.97 | 491.7 | .051 |
| 30 | 11.91 | | 7.00 | | 20 | 14.42 | 31.76 | 6.42 | | 23.63 | 428.5 | .097 |
| 51 | 8.61 | 32.437 | 6.58 | | 30 | 11.91 | 32.02 | 7.01 | | 24.32 | 362.8 | .136 |
| 77 | 8.21 | 32.662 | 5.97 | | 50 | 8.72 | 32.42 | 6.62 | | 25.17 | 281.9 | .201 |
| 103 | 7.98 | 33.475 | 3.95 | | 75 | 8.24 | 32.64 | 6.04 | | 25.41 | 259.1 | .268 |
| 154 | 7.60 | 33.860 | 3.15 | | 100 | 8.00 | 33.38 | 4.19 | | 26.03 | 201.3 | .326 |
| 205 | 6.98 | 33.962 | 2.94 | | 150 | 7.63 | 33.83 | 3.21 | | 26.44 | 163.2 | .417 |
| 255 | 6.47 | 33.979 | 2.30 | | 200 | 7.04 | 33.94 | 2.96 | | 26.61 | 147.6 | .495 |
| 306 | 5.96 | 34.005 | 1.81 | | 250 | 6.52 | 33.88 | 2.37 | | 26.70 | 138.8 | .566 |
| 410 | 5.19 | 34.057 | 1.09 | | 300 | 6.02 | 34.00 | 1.86 | | 26.79 | 131.2 | .634 |
| 510 | 4.81 | 34.125 | .73 | | 400 | 5.25 | 34.05 | 1.14 | | 26.92 | 119.4 | .759 |
| 612 | 4.55 | 34.226 | .39 | | 500 | 4.84 | 34.12 | .76 | | 27.02 | 110.1 | .874 |
| 815 | 3.94 | 34.348 | .23 | | 600 | 4.58 | 34.21 | .42 | | 27.13 | 101.4 | .979 |
| 1020 | 3.52 | 34.428 | .30 | | 700 | 4.28 | 34.29 | .26 | | 27.22 | 93.1 | 1.077 |
| | | | | | 800 | 3.98 | 34.34 | .24 | | 27.29 | 86.4 | 1.166 |
| | | | | | 1000 | 3.55 | 34.42 | .28 | | 27.40 | 77.1 | 1.330 |

| | OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| CH 135 43 20.4 N 127 13.1 W DATE 20 JUL 64 1143 GCT WIRE 04 DRY 62.0 WET 60.0 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 10 KTS BAR 16 SWELL DIRECTION 25 H 04 T 09 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.30 | 32.241 | 5.80 | | 0 | 16.30 | 32.25 | 5.81 | | 23.59 | 431.9 | 0 |
| 10 | 16.24 | 32.254 | 5.77 | | 10 | 16.24 | 32.26 | 5.78 | | 23.61 | 429.9 | .043 |
| 30 | 13.94 | 32.438 | 6.53 | | 20 | 15.47 | 32.34 | 6.11 | | 23.87 | 405.6 | .085 |
| 51 | 9.89 | 32.517 | 6.90 | | 30 | 13.94 | 32.44 | 6.54 | | 24.25 | 369.5 | .124 |
| 77 | 8.75 | 32.643 | 5.94 | | 50 | 10.07 | 32.51 | 6.90 | | 25.03 | 295.6 | .190 |
| 103 | 8.59 | 33.198 | 4.41 | | 75 | 8.84 | 32.63 | 6.05 | | 25.31 | 268.8 | .261 |
| 155 | 7.99 | 33.785 | 3.30 | | 100 | 8.61 | 33.12 | 4.58 | | 25.73 | 229.2 | .323 |
| 206 | 7.29 | 33.929 | 3.09 | | 150 | 8.06 | 33.75 | 3.33 | | 26.31 | 175.0 | .424 |
| 255 | 6.74 | 33.986 | 2.25 | | 200 | 7.37 | 33.93 | 3.11 | | 26.55 | 153.3 | .506 |
| 307 | 6.18 | 33.997 | 2.01 | | 250 | 6.79 | 33.99 | 2.34 | | 26.68 | 141.2 | .580 |
| 411 | 5.59 | 34.089 | 1.03 | | 300 | 6.25 | 34.00 | 2.03 | | 26.76 | 134.5 | .648 |
| 512 | 5.01 | 34.150 | .61 | | 400 | 5.64 | 34.08 | 1.14 | | 26.90 | 122.3 | .777 |
| 614 | 4.63 | 34.225 | .38 | | 500 | 5.07 | 34.14 | .64 | | 27.01 | 111.0 | .893 |
| 817 | 4.03 | 34.350 | .24 | | 600 | 4.67 | 34.21 | .40 | | 27.12 | 102.5 | 1.000 |
| 1023 | 3.41 | 34.436 | .32 | | 700 | 4.36 | 34.28 | .28 | | 27.20 | 94.5 | 1.099 |
| | | | | | 800 | 4.08 | 34.34 | .25 | | 27.28 | 87.5 | 1.190 |
| | | | | | 1000 | 3.48 | 34.43 | .30 | | 27.41 | 75.8 | 1.353 |
| CH 145 43 20.5 N 127 40.2 W DATE 20 JUL 64 1955 GCT WIRE 03 DRY 62.5 WET 58.5 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 08 KTS BAR 15 SWELL DIRECTION 25 H 04 T 05 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.12 | 32.280 | 5.75 | | 0 | 16.13 | 32.28 | 5.76 | | 23.66 | 425.1 | 0 |
| 10 | 16.12 | 32.306 | 5.75 | | 10 | 16.13 | 32.31 | 5.76 | | 23.68 | 423.5 | .042 |
| 30 | 14.47 | 32.360 | 6.74 | | 20 | 15.61 | 32.33 | 6.21 | | 23.83 | 409.3 | .084 |
| 51 | 11.38 | 32.472 | 7.00 | | 30 | 14.47 | 32.36 | 6.74 | | 24.08 | 385.7 | .124 |
| 77 | 8.89 | 32.584 | 6.25 | | 50 | 11.53 | 32.47 | 6.99 | | 24.74 | 323.6 | .195 |
| 103 | 8.48 | 33.146 | 4.60 | | 75 | 9.02 | 32.57 | 6.34 | | 25.24 | 275.8 | .270 |
| 154 | 7.73 | 33.834 | 3.66 | | 100 | 8.53 | 33.07 | 4.79 | | 25.71 | 231.4 | .333 |
| 205 | 7.19 | 33.942 | 3.12 | | 150 | 7.78 | 33.80 | 3.67 | | 26.39 | 167.5 | .433 |
| 255 | 6.64 | 33.988 | 2.16 | | 200 | 7.24 | 33.93 | 3.17 | | 26.57 | 151.0 | .512 |
| 307 | 6.28 | 34.024 | 1.77 | | 250 | 6.69 | 33.99 | 2.25 | | 26.70 | 139.7 | .585 |
| 410 | 5.69 | 34.102 | 1.02 | | 300 | 6.32 | 34.02 | 1.80 | | 26.77 | 133.6 | .653 |
| 511 | 5.13 | 34.173 | .65 | | 400 | 5.74 | 34.09 | 1.08 | | 26.90 | 122.4 | .781 |
| 613 | 4.66 | 34.220 | .40 | | 500 | 5.19 | 34.17 | .68 | | 27.02 | 110.7 | .898 |
| 817 | 4.02 | 34.351 | .26 | | 600 | 4.71 | 34.21 | .43 | | 27.11 | 103.0 | 1.005 |
| 1022 | 3.46 | 34.434 | .30 | | 700 | 4.36 | 34.28 | .30 | | 27.20 | 94.9 | 1.103 |
| | | | | | 800 | 4.06 | 34.34 | .27 | | 27.28 | 87.4 | 1.195 |
| | | | | | 1000 | 3.52 | 34.43 | .29 | | 27.41 | 76.3 | 1.358 |
| CH 165 43 20.4 N 128 36.1 W DATE 20 JUL 64 2023 GCT WIRE 05 DRY 59.5 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 12 KTS BAR 16 SWELL DIRECTION 25 H 04 T 09 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.04 | 32.407 | 5.78 | | 0 | 16.04 | 32.41 | 5.79 | | 23.78 | 414.1 | 0 |
| 10 | 15.89 | 32.380 | 5.83 | | 10 | 15.89 | 32.38 | 5.83 | | 23.79 | 413.2 | .041 |
| 31 | 12.67 | 32.395 | 6.72 | | 20 | 14.57 | 32.39 | 6.24 | | 24.08 | 385.8 | .081 |
| 51 | 10.06 | 32.492 | 6.78 | | 30 | 12.86 | 32.39 | 6.68 | | 24.43 | 352.6 | .118 |
| 77 | 8.70 | 32.620 | 6.12 | | 50 | 10.17 | 32.49 | 6.78 | | 24.99 | 299.3 | .183 |
| 102 | 8.41 | 33.155 | 4.65 | | 75 | 8.74 | 32.60 | 6.20 | | 25.31 | 269.2 | .254 |
| 154 | 7.90 | 33.781 | 3.58 | | 100 | 8.41 | 33.11 | 4.77 | | 25.75 | 227.2 | .316 |
| 206 | 7.34 | 33.968 | 2.64 | | 150 | 7.94 | 33.75 | 3.61 | | 26.33 | 173.3 | .417 |
| 309 | 6.27 | 34.022 | 1.91 | | 200 | 7.41 | 33.96 | 2.74 | | 26.57 | 151.1 | .498 |
| 411 | 5.64 | 34.068 | 1.17 | | 250 | 6.85 | 34.02 | 2.24 | | 26.69 | 140.2 | .570 |
| 515 | 5.01 | 34.140 | .71 | | 300 | 6.35 | 34.02 | 1.94 | | 26.76 | 134.3 | .639 |
| 614 | 4.70 | 34.210 | .49 | | 400 | 5.70 | 34.06 | 1.24 | | 26.88 | 124.1 | .768 |
| 819 | 4.04 | 34.337 | .29 | | 500 | 5.09 | 34.13 | .76 | | 27.00 | 112.3 | .886 |
| 1028 | 3.51 | 34.422 | .42 | | 600 | 4.74 | 34.20 | .51 | | 27.10 | 104.3 | .995 |
| 1228 | 3.03 | 34.481 | .49 | | 700 | 4.42 | 34.27 | .37 | | 27.19 | 96.2 | 1.095 |
| | | | | | 800 | 4.10 | 34.33 | .29 | | 27.27 | 88.8 | 1.187 |
| | | | | | 1000 | 3.58 | 34.41 | .39 | | 27.39 | 78.1 | 1.354 |
| | | | | | 1200 | 3.10 | 34.47 | .48 | | 27.48 | 69.1 | 1.501 |
| UH165A 43 39.1 N 128 0.0 W DATE 21 JUL 64 0005 GCT WIRE 03 DRY 62.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 15 KTS BAR 16 SWELL DIRECTION 25 H 04 T 09 CLOUD 06 AMT 05 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.81 | 32.539 | 5.84 | | 0 | 15.81 | 32.54 | 5.84 | | 23.93 | 399.6 | 0 |
| 10 | 15.68 | 32.535 | 5.88 | | 10 | 15.68 | 32.54 | 5.89 | | 23.95 | 397.4 | .040 |
| 20 | 13.47 | 32.527 | 6.75 | | 20 | 13.47 | 32.53 | 6.76 | | 24.42 | 353.6 | .077 |
| 30 | 11.74 | 32.544 | 7.17 | | 30 | 11.74 | 32.55 | 7.18 | | 24.76 | 320.8 | .111 |
| 51 | 9.72 | 32.577 | 6.93 | | 50 | 9.78 | 32.58 | 6.96 | | 25.12 | 286.5 | .172 |
| 76 | 8.92 | 32.604 | 6.56 | | 75 | 8.93 | 32.60 | 6.58 | | 25.28 | 271.9 | .242 |
| 102 | 8.43 | 32.673 | 6.21 | | 100 | 8.46 | 32.66 | 6.24 | | 25.40 | 260.9 | .308 |
| 154 | 7.68 | 33.579 | 4.40 | | 150 | 7.72 | 33.50 | 4.55 | | 26.17 | 188.8 | .421 |
| 205 | 7.52 | 33.875 | 3.51 | | 200 | 7.53 | 33.86 | 3.57 | | 26.48 | 160.1 | .508 |
| 307 | 6.14 | 33.982 | 2.22 | | 250 | 6.97 | 33.97 | 2.87 | | 26.64 | 145.5 | .584 |
| 410 | 5.26 | 34.024 | 1.45 | | 300 | 5.25 | 33.97 | 2.29 | | 26.74 | 136.2 | .655 |
| 511 | 4.73 | 34.103 | .83 | | 400 | 5.33 | 34.02 | 1.51 | | 26.89 | 122.7 | .784 |
| 613 | 4.51 | 34.108 | .56 | | 500 | 4.77 | 34.09 | .89 | | 27.01 | 111.2 | .901 |
| 816 | 3.96 | 34.322 | .34 | | 600 | 4.53 | 34.19 | .58 | | 27.11 | 102.9 | 1.008 |
| 1022 | 3.39 | 34.408 | .53 | | 700 | 4.28 | 34.26 | .41 | | 27.19 | 95.3 | 1.107 |
| | | | | | 800 | 4.01 | 34.31 | .34 | | 27.27 | 88.6 | 1.199 |
| | | | | | 1000 | 3.45 | 34.40 | .57 | | 27.39 | 77.5 | 1.365 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $S \times 10^5$ | Δ D |
| UH165B 43 47.0 N 128 0.0 W DATE 21 JUL 64 0342 GCT WIRE 04 DRY 60.0 WET 56.3 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 15 KTS BAR 5 SWELL DIRECTION 25 H 05 T 06 CLOUD 0 AMT 0 WEATHER 0 | | | | | | | | | | | | |
| 0 | 15.76 | 32.560 | 5.82 | | 0 | 15.76 | 32.55 | 5.82 | | 23.95 | 397.7 | 0 |
| 10 | 15.58 | 32.543 | 5.86 | | 10 | 15.59 | 32.55 | 5.86 | | 23.98 | 394.7 | .040 |
| 20 | 15.17 | 32.534 | 6.12 | | 20 | 15.17 | 32.54 | 6.13 | | 24.07 | 387.0 | .079 |
| 30 | 12.10 | 32.535 | 6.91 | | 30 | 12.10 | 32.54 | 6.92 | | 24.69 | 327.9 | .114 |
| 51 | 9.56 | 32.564 | 6.77 | | 50 | 9.60 | 32.56 | 6.81 | | 25.14 | 284.7 | .176 |
| 76 | 8.83 | 32.608 | 6.43 | | 75 | 8.83 | 32.60 | 6.45 | | 25.29 | 271.0 | .245 |
| 103 | 8.37 | 32.749 | 5.99 | | 100 | 8.41 | 32.72 | 6.05 | | 25.45 | 255.6 | .311 |
| 154 | 7.76 | 33.630 | 4.27 | | 150 | 7.80 | 33.56 | 4.41 | | 26.20 | 185.7 | .421 |
| 205 | 7.45 | 33.808 | 3.54 | | 200 | 7.48 | 33.89 | 3.59 | | 26.50 | 157.5 | .507 |
| 307 | 6.22 | 33.971 | 2.37 | | 250 | 6.94 | 33.97 | 2.98 | | 26.64 | 144.8 | .583 |
| 410 | 5.32 | 34.007 | 1.58 | | 300 | 6.31 | 33.97 | 2.44 | | 26.72 | 137.6 | .653 |
| 511 | 4.84 | 34.090 | .97 | | 400 | 5.39 | 34.00 | 1.64 | | 26.87 | 124.8 | .784 |
| 613 | 4.54 | 34.180 | .44 | | 500 | 4.88 | 34.08 | 1.03 | | 26.99 | 113.4 | .903 |
| 816 | 3.89 | 34.317 | .23 | | 600 | 4.57 | 34.17 | .50 | | 27.09 | 104.7 | 1.012 |
| 1021 | 3.40 | 34.411 | .26 | | 700 | 4.26 | 34.24 | .27 | | 27.19 | 96.0 | 1.113 |
| | | | | | 800 | 3.94 | 34.31 | .25 | | 27.27 | 88.3 | 1.205 |
| | | | | | 1000 | 3.44 | 34.40 | .25 | | 27.39 | 77.2 | 1.370 |
| UH 145 43 47.0 N 127 32.6 W DATE 21 JUL 64 0607 GCT WIRE 05 DRY 59.5 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 15 KTS BAR 15 SWELL DIRECTION 25 H 05 T 06 CLOUD 06 AMT 07 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.89 | 32.509 | 5.80 | | 0 | 15.89 | 32.51 | 5.81 | | 23.89 | 403.5 | 0 |
| 10 | 15.91 | 32.510 | 5.83 | | 10 | 15.91 | 32.51 | 5.83 | | 23.88 | 404.1 | .040 |
| 20 | 15.21 | 32.522 | 6.25 | | 20 | 15.21 | 32.53 | 6.26 | | 24.05 | 388.7 | .080 |
| 30 | 12.78 | 32.549 | 6.82 | | 30 | 12.78 | 32.55 | 6.82 | | 24.57 | 339.2 | .116 |
| 51 | 10.06 | 32.607 | 6.90 | | 50 | 10.13 | 32.60 | 6.90 | | 25.09 | 290.0 | .179 |
| 77 | 9.02 | 32.632 | 6.60 | | 75 | 9.04 | 32.63 | 6.63 | | 25.29 | 271.5 | .249 |
| 103 | 8.56 | 32.646 | 6.33 | | 100 | 8.60 | 32.64 | 6.37 | | 25.36 | 264.8 | .317 |
| 154 | 7.76 | 33.608 | 4.29 | | 150 | 7.81 | 33.52 | 4.46 | | 26.17 | 188.6 | .430 |
| 205 | 7.36 | 33.885 | 3.05 | | 200 | 7.39 | 33.88 | 3.98 | | 26.51 | 157.2 | .516 |
| 306 | 6.07 | 33.939 | 2.87 | | 250 | 6.79 | 33.91 | 3.52 | | 26.62 | 147.3 | .592 |
| 410 | 5.40 | 34.036 | 1.38 | | 300 | 6.15 | 33.94 | 2.95 | | 26.72 | 137.7 | .664 |
| 510 | 4.73 | 34.087 | .87 | | 400 | 5.45 | 34.03 | 1.51 | | 26.88 | 123.8 | .794 |
| 612 | 4.45 | 34.196 | .44 | | 500 | 4.79 | 34.08 | .90 | | 27.00 | 112.2 | .912 |
| 815 | 3.83 | 34.313 | .24 | | 600 | 4.47 | 34.17 | .48 | | 27.11 | 103.2 | 1.020 |
| 1020 | 3.41 | 34.419 | .28 | | 700 | 4.17 | 34.25 | .29 | | 27.20 | 94.8 | 1.119 |
| | | | | | 800 | 3.87 | 34.31 | .25 | | 27.27 | 87.8 | 1.210 |
| | | | | | 1000 | 3.44 | 34.41 | .27 | | 27.40 | 76.8 | 1.374 |
| UH 125 43 47.0 N 127 5.0 W DATE 21 JUL 64 0952 GCT WIRE 05 DRY 60.0 WET 56.0 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 14 KTS BAR 16 SWELL DIRECTION 25 H 05 T 08 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.84 | 32.433 | 5.86 | | 0 | 15.84 | 32.44 | 5.86 | | 23.84 | 408.0 | 0 |
| 10 | | 32.437 | 5.99 | | 10 | | 32.44 | 5.99 | | 23.18 | 471.0 | .044 |
| 20 | 15.77 | 32.426 | 5.92 | | 20 | 15.77 | 32.43 | 5.93 | | 23.85 | 407.5 | .088 |
| 30 | 12.89 | 32.379 | 6.78 | | 30 | 12.89 | 32.38 | 6.79 | | 24.42 | 353.8 | .126 |
| 51 | 8.92 | 32.422 | 6.84 | | 50 | 9.04 | 32.42 | 6.84 | | 25.12 | 286.9 | .190 |
| 76 | 8.43 | 32.497 | 6.49 | | 75 | 8.45 | 32.49 | 6.51 | | 25.27 | 273.0 | .260 |
| 102 | 8.20 | 32.695 | 5.99 | | 100 | 8.21 | 32.68 | 6.03 | | 25.45 | 256.3 | .326 |
| 203 | 7.36 | 33.935 | 2.86 | | 150 | 7.82 | 33.31 | 4.49 | | 26.00 | 204.4 | .441 |
| 303 | 6.13 | 34.003 | 1.83 | | 200 | 7.39 | 33.90 | 2.95 | | 26.53 | 155.3 | .531 |
| 404 | 5.43 | 34.061 | 1.15 | | 250 | 6.77 | 33.97 | 2.23 | | 26.66 | 142.8 | .606 |
| 504 | 5.08 | 34.160 | .62 | | 300 | 6.17 | 34.00 | 1.84 | | 26.77 | 133.1 | .675 |
| 605 | 4.74 | 34.216 | .42 | | 400 | 5.45 | 34.06 | 1.17 | | 26.90 | 121.4 | .802 |
| 810 | 4.03 | 34.338 | .29 | | 500 | 5.09 | 34.15 | .64 | | 27.02 | 111.0 | .918 |
| 1018 | 3.51 | 34.426 | .29 | | 600 | 4.76 | 34.21 | .42 | | 27.11 | 103.6 | 1.025 |
| | | | | | 700 | 4.40 | 34.28 | .33 | | 27.20 | 95.4 | 1.125 |
| | | | | | 800 | 4.06 | 34.33 | .29 | | 27.28 | 87.9 | 1.216 |
| | | | | | 1000 | 3.55 | 34.42 | .29 | | 27.40 | 77.2 | 1.381 |
| UH 105 43 47.0 N 126 32.2 W DATE 21 JUL 64 1415 GCT WIRE 00 DRY 60.0 WET 55.8 | | | | | | | | | | | | |
| WIND DIRECTION 25 VEL 10 KTS BAR 16 SWELL DIRECTION 27 H 06 T 08 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 16.69 | 31.404 | 5.76 | | 0 | 16.69 | 31.41 | 5.77 | | 22.86 | 501.5 | 0 |
| 10 | 16.39 | 31.557 | 5.85 | | 10 | 16.40 | 31.56 | 5.85 | | 23.05 | 484.0 | .049 |
| 20 | 14.59 | 32.182 | 6.51 | | 20 | 14.59 | 32.19 | 6.52 | | 23.92 | 400.9 | .094 |
| 30 | 12.51 | 32.387 | 7.03 | | 30 | 12.51 | 32.39 | 7.04 | | 24.50 | 346.2 | .131 |
| 51 | 9.10 | 32.460 | 6.87 | | 50 | 9.22 | 32.46 | 6.90 | | 25.12 | 286.7 | .194 |
| 77 | 8.41 | 32.550 | 6.46 | | 75 | 8.46 | 32.54 | 6.51 | | 25.30 | 270.0 | .264 |
| 103 | 8.11 | 33.015 | 5.16 | | 100 | 8.13 | 32.95 | 5.33 | | 25.67 | 234.7 | .327 |
| 153 | 7.83 | 33.830 | 2.77 | | 150 | 7.85 | 33.78 | 2.89 | | 26.37 | 169.7 | .428 |
| 206 | 7.22 | 33.969 | 2.05 | | 200 | 7.30 | 33.95 | 2.08 | | 26.58 | 150.2 | .508 |
| 308 | 6.22 | 34.061 | 1.55 | | 250 | 6.75 | 34.02 | 1.77 | | 26.71 | 138.8 | .580 |
| 411 | 5.55 | 34.098 | .98 | | 300 | 6.29 | 34.04 | 1.57 | | 26.78 | 131.8 | .648 |
| 512 | 5.08 | 34.162 | .68 | | 400 | 5.61 | 34.09 | 1.04 | | 26.91 | 120.8 | .774 |
| 614 | 4.64 | 34.239 | .36 | | 500 | 5.13 | 34.15 | .71 | | 27.02 | 110.9 | .890 |
| 818 | 4.02 | 34.367 | .26 | | 600 | 4.70 | 34.23 | .40 | | 27.13 | 101.8 | .996 |
| 1024 | 3.45 | 34.446 | .32 | | 700 | 4.35 | 34.29 | .26 | | 27.21 | 93.5 | 1.094 |
| | | | | | 800 | 4.07 | 34.35 | .27 | | 27.29 | 86.8 | 1.184 |
| | | | | | 1000 | 3.51 | 34.44 | .30 | | 27.41 | 75.5 | 1.346 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

UH 085 43 47.0 N 126 9.8 W DATE 21 JUL 64 1755 GCT WIRE 03 DRY 61.0 WET 55.5
WIND DIRECTION 22 VEL 15 KTS BAR 18 SWELL DIRECTION 27 H 06 T 07 CLOUD 06 AMT 07 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.54 | 28.734 | 5.65 | 0 | 17.54 | 28.74 | 5.66 | 20.63 | 715.4 | 0 |
| 10 | 17.40 | 29.956 | 5.73 | 10 | 17.40 | 29.96 | 5.73 | 21.59 | 623.2 | .067 |
| 20 | 12.93 | 32.076 | 6.74 | 20 | 12.93 | 32.08 | 6.74 | 24.17 | 376.6 | .117 |
| 30 | 10.22 | 32.161 | 7.17 | 30 | 10.22 | 32.17 | 7.18 | 24.73 | 323.6 | .152 |
| 51 | 8.06 | 32.647 | 5.48 | 50 | 8.09 | 32.62 | 5.60 | 25.42 | 258.2 | .210 |
| 77 | 8.24 | 33.476 | 3.44 | 75 | 8.18 | 33.42 | 3.57 | 26.03 | 200.3 | .267 |
| 103 | 8.05 | 33.714 | 2.64 | 100 | 8.08 | 33.70 | 2.69 | 26.27 | 178.2 | .315 |
| 153 | 7.43 | 33.952 | 2.15 | 150 | 7.47 | 33.94 | 2.16 | 26.55 | 152.5 | .397 |
| 205 | 6.90 | 34.010 | 1.88 | 200 | 6.86 | 34.01 | 1.90 | 26.68 | 140.1 | .470 |
| 307 | 5.96 | 34.032 | 1.39 | 250 | 6.38 | 34.02 | 1.66 | 26.76 | 133.4 | .539 |
| 411 | 5.44 | 34.116 | .85 | 300 | 6.00 | 34.03 | 1.42 | 26.81 | 128.8 | .604 |
| 511 | 5.03 | 34.176 | .54 | 400 | 5.48 | 34.11 | .90 | 26.94 | 118.3 | .728 |
| 613 | 4.67 | 34.244 | .35 | 500 | 5.07 | 34.17 | .57 | 27.04 | 109.0 | .841 |
| 816 | 4.01 | 34.368 | .29 | 600 | 4.71 | 34.24 | .37 | 27.13 | 101.4 | .947 |
| 1021 | 3.50 | 34.439 | .35 | 700 | 4.37 | 34.30 | .29 | 27.22 | 93.2 | 1.044 |
| | | | | 800 | 4.06 | 34.36 | .29 | 27.30 | 85.9 | 1.133 |
| | | | | 1000 | 3.55 | 34.43 | .34 | 27.41 | 76.1 | 1.295 |

UH 065 43 47.0 N 125 42.1 W DATE 21 JUL 64 2153 GCT WIRE 11 DRY 65.5 WET 57.0
WIND DIRECTION 25 VEL 12 KTS BAR 18 SWELL DIRECTION 27 H 06 T 07 CLOUD 04 AMT 07 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.77 | 29.842 | 5.65 | 0 | 17.77 | 29.85 | 5.66 | 21.42 | 639.6 | 0 |
| 10 | 16.95 | 30.275 | 5.85 | 10 | 16.96 | 30.28 | 5.85 | 21.94 | 589.9 | .061 |
| 20 | 12.22 | 31.813 | 6.97 | 20 | 12.22 | 31.82 | 6.97 | 24.11 | 383.0 | .110 |
| 30 | 9.38 | 32.212 | 7.19 | 30 | 9.38 | 32.22 | 7.19 | 24.91 | 306.7 | .145 |
| 51 | 8.23 | 32.416 | 6.30 | 50 | 8.28 | 32.41 | 6.36 | 25.23 | 276.2 | .203 |
| 75 | 8.24 | 32.905 | 5.19 | 75 | 8.24 | 32.91 | 5.19 | 25.62 | 239.1 | .267 |
| 100 | 8.11 | 33.499 | 3.48 | 100 | 8.11 | 33.50 | 3.48 | 26.11 | 193.5 | .321 |
| 148 | 7.52 | 33.915 | 2.86 | 150 | 7.50 | 33.92 | 2.82 | 26.53 | 154.5 | .408 |
| 199 | 7.04 | 33.994 | 1.91 | 200 | 7.03 | 34.00 | 1.90 | 26.65 | 143.5 | .483 |
| 295 | 6.33 | 34.064 | 1.41 | 250 | 6.62 | 34.04 | 1.53 | 26.74 | 135.6 | .552 |
| 393 | 5.98 | 34.124 | 1.03 | 300 | 6.31 | 34.07 | 1.39 | 26.80 | 130.1 | .619 |
| 488 | 5.23 | 34.157 | .66 | 400 | 5.93 | 34.13 | 1.00 | 26.90 | 122.3 | .745 |
| 587 | 4.83 | 34.212 | .45 | 500 | 5.17 | 34.16 | .63 | 27.02 | 110.7 | .861 |
| 786 | 4.24 | 34.347 | .30 | 600 | 4.79 | 34.22 | .43 | 27.11 | 103.3 | .968 |
| 990 | 3.70 | 34.421 | .33 | 700 | 4.47 | 34.29 | .33 | 27.20 | 95.2 | 1.068 |
| | | | | 800 | 4.20 | 34.35 | .30 | 27.28 | 88.0 | 1.159 |
| | | | | 1000 | 3.67 | 34.42 | .33 | 27.39 | 78.3 | 1.325 |

UH 045 43 47.0 N 125 14.8 W DATE 22 JUL 64 0130 GCT WIRE 08 DRY 64.2 WET 57.8
WIND DIRECTION 25 VEL 06 KTS BAR 18 SWELL DIRECTION 28 H 06 T 09 CLOUD 04 AMT 07 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.87 | 27.465 | 5.71 | 0 | 17.88 | 27.47 | 5.71 | 19.59 | 815.5 | 0 |
| 10 | 15.11 | 31.922 | 6.17 | 10 | 15.11 | 31.93 | 6.18 | 23.61 | 430.3 | .062 |
| 20 | 12.14 | 32.279 | 7.12 | 20 | 12.14 | 32.28 | 7.13 | 24.48 | 347.2 | .101 |
| 30 | 9.61 | 32.482 | 6.91 | 30 | 9.61 | 32.49 | 6.92 | 25.08 | 290.2 | .133 |
| 51 | 8.75 | 32.525 | 6.52 | 50 | 8.79 | 32.52 | 6.55 | 25.24 | 275.4 | .190 |
| 74 | 8.26 | 32.955 | 5.23 | 75 | 8.24 | 32.98 | 5.16 | 25.68 | 233.5 | .253 |
| 99 | 7.90 | 33.557 | 3.63 | 100 | 7.89 | 33.47 | 3.59 | 26.27 | 177.9 | .305 |
| 147 | 7.49 | 33.934 | 2.33 | 150 | 7.46 | 33.94 | 2.29 | 26.55 | 152.3 | .387 |
| 198 | 6.99 | 34.048 | 1.99 | 200 | 6.97 | 34.05 | 1.98 | 26.70 | 138.7 | .460 |
| 297 | 6.20 | 34.047 | 1.50 | 250 | 6.54 | 34.05 | 1.73 | 26.76 | 133.8 | .528 |
| 399 | 5.73 | 34.126 | .86 | 300 | 6.18 | 34.05 | 1.48 | 26.80 | 129.8 | .594 |
| 499 | 5.20 | 34.179 | .60 | 400 | 5.72 | 34.13 | .86 | 26.92 | 119.7 | .719 |
| 600 | 4.71 | 34.221 | .40 | 500 | 5.19 | 34.18 | .60 | 27.03 | 109.8 | .833 |
| 802 | 4.20 | 34.338 | .27 | 600 | 4.71 | 34.23 | .40 | 27.12 | 102.1 | .939 |
| 1006 | 3.67 | 34.424 | .32 | 700 | 4.42 | 34.28 | .30 | 27.19 | 95.4 | 1.038 |
| | | | | 800 | 4.20 | 34.34 | .27 | 27.26 | 89.3 | 1.130 |
| | | | | 1000 | 3.69 | 34.42 | .32 | 27.39 | 78.7 | 1.298 |

UH 035 43 47.0 N 125 1.0 W DATE 22 JUL 64 0345 GCT WIRE 09 DRY 62.0 WET 57.0
WIND DIRECTION 32 VEL 06 KTS BAR 18 SWELL DIRECTION 28 H 05 T 09 CLOUD 04 AMT 03 WEATHER 02

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.36 | 30.039 | 5.86 | 0 | 17.36 | 30.04 | 5.86 | 21.66 | 616.0 | 0 |
| 10 | 15.81 | 31.388 | 6.24 | 10 | 15.81 | 31.39 | 6.24 | 23.05 | 484.0 | .055 |
| 20 | 12.26 | 31.829 | 6.99 | 20 | 12.26 | 31.83 | 6.99 | 24.11 | 382.5 | .098 |
| 30 | 8.73 | 32.476 | 5.47 | 30 | 8.73 | 32.48 | 5.47 | 25.22 | 277.4 | .131 |
| 51 | 7.63 | 33.223 | 3.63 | 50 | 7.68 | 33.20 | 3.68 | 25.93 | 209.3 | .180 |
| 76 | 7.64 | 33.660 | 2.88 | 75 | 7.64 | 33.65 | 2.90 | 26.29 | 175.6 | .228 |
| 102 | 7.31 | 33.886 | 1.88 | 100 | 7.34 | 33.87 | 1.95 | 26.51 | 155.1 | .269 |
| 151 | 6.94 | 34.004 | 1.78 | 150 | 6.95 | 34.00 | 1.78 | 26.67 | 141.1 | .343 |
| 203 | 6.58 | 34.035 | 1.85 | 200 | 6.60 | 34.02 | 1.85 | 26.73 | 135.5 | .413 |
| 301 | 5.93 | 34.067 | 1.27 | 250 | 6.25 | 34.04 | 1.62 | 26.79 | 130.2 | .479 |
| 402 | 5.52 | 34.123 | .88 | 300 | 5.94 | 34.07 | 1.28 | 26.85 | 125.4 | .543 |
| 497 | 5.02 | 34.187 | .56 | 400 | 5.53 | 34.12 | .89 | 26.94 | 117.6 | .664 |
| 594 | 4.75 | 34.230 | .41 | 500 | 5.01 | 34.19 | .55 | 27.06 | 106.9 | .776 |
| 793 | 4.27 | 34.327 | .29 | 600 | 4.74 | 34.23 | .40 | 27.12 | 101.9 | .881 |
| 997 | 3.72 | 34.411 | .31 | 700 | 4.49 | 34.28 | .32 | 27.19 | 96.0 | .980 |
| | | | | 800 | 4.25 | 34.33 | .29 | 27.25 | 90.3 | 1.073 |
| | | | | 1000 | 3.71 | 34.41 | .31 | 27.38 | 79.7 | 1.243 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

UH 025 43 47.0 N 124 47.1 W DATE 22 JUL 64 0545 GCT WIRE 09 DRY 61.0 WET 56.5
WIND DIRECTION 04 VEL 04 KTS BAR 18 SWELL DIRECTION 28 H 06 T 08 CLOUD 04 AMT 01 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.88 | 30.860 | 5.86 | 0 | 16.88 | 30.86 | 5.86 | 22.40 | 545.4 | 0 |
| 10 | 15.08 | 31.301 | 6.37 | 10 | 15.08 | 31.31 | 6.38 | 23.14 | 475.2 | .051 |
| 20 | 10.90 | 32.181 | 5.92 | 20 | 10.90 | 32.19 | 5.93 | 24.63 | 333.0 | .091 |
| 30 | 7.92 | 33.067 | 4.20 | 30 | 7.93 | 33.07 | 4.29 | 25.80 | 221.9 | .119 |
| 50 | 7.55 | 33.587 | 2.76 | 50 | 7.56 | 33.59 | 2.77 | 26.26 | 178.4 | .159 |
| 75 | 7.34 | 33.901 | 1.95 | 75 | 7.34 | 33.91 | 1.96 | 26.54 | 152.5 | .201 |
| 104 | 7.08 | 33.972 | 1.74 | 100 | 7.11 | 33.96 | 1.74 | 26.61 | 145.6 | .238 |
| 153 | 6.76 | 34.030 | 1.69 | 150 | 6.78 | 34.02 | 1.69 | 26.70 | 137.6 | .309 |
| 209 | 6.50 | 34.070 | 1.44 | 200 | 6.54 | 34.06 | 1.49 | 26.77 | 131.9 | .376 |
| 307 | 5.92 | 34.106 | 1.06 | 250 | 6.26 | 34.09 | 1.27 | 26.83 | 127.0 | .441 |
| 407 | 5.47 | 34.140 | .84 | 300 | 5.96 | 34.10 | 1.08 | 26.88 | 122.9 | .503 |
| 507 | 4.95 | 34.204 | .52 | 400 | 5.50 | 34.14 | .85 | 26.96 | 116.1 | .623 |
| | | | | 500 | 4.99 | 34.20 | .55 | 27.07 | 105.9 | .734 |

YH 035 44 19.2 N 124 54.8 W DATE 22 JUL 64 1135 GCT WIRE 10 DRY 61.0 WET 56.0
WIND DIRECTION 00 VEL 06 KTS BAR 18 SWELL DIRECTION 28 H 04 T 08 CLOUD 04 AMT 02 WEATHER 01

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.81 | 29.307 | 5.63 | 0 | 16.81 | 29.31 | 5.64 | 21.23 | 657.4 | 0 |
| 10 | 13.80 | 31.647 | 5.53 | 10 | 13.80 | 31.65 | 5.54 | 23.67 | 424.4 | .054 |
| 20 | 10.19 | 32.135 | 5.71 | 20 | 10.19 | 32.14 | 5.71 | 24.72 | 324.8 | .092 |
| 30 | 8.31 | 32.512 | 4.78 | 30 | 8.31 | 32.52 | 4.79 | 25.31 | 268.7 | .121 |
| 50 | 7.48 | 33.164 | 4.27 | 50 | 7.48 | 33.17 | 4.28 | 25.94 | 208.9 | .169 |
| 74 | 7.82 | 33.660 | 3.29 | 75 | 7.81 | 33.67 | 3.25 | 26.29 | 176.4 | .217 |
| 103 | 7.46 | 33.886 | 2.21 | 100 | 7.51 | 33.87 | 2.31 | 26.49 | 157.4 | .259 |
| 152 | 6.86 | 34.006 | 1.69 | 150 | 6.88 | 34.00 | 1.69 | 26.68 | 140.0 | .333 |
| 207 | 6.67 | 34.066 | 1.61 | 200 | 6.68 | 34.06 | 1.62 | 26.75 | 133.9 | .402 |
| 306 | 6.15 | 34.068 | 1.30 | 250 | 6.46 | 34.07 | 1.49 | 26.78 | 131.2 | .468 |
| 405 | 5.67 | 34.109 | 1.00 | 300 | 6.18 | 34.07 | 1.32 | 26.82 | 128.4 | .533 |
| 504 | 5.16 | 34.171 | .63 | 400 | 5.69 | 34.11 | 1.02 | 26.91 | 120.9 | .657 |
| | | | | 500 | 5.18 | 34.17 | .65 | 27.02 | 110.5 | .773 |

YH 045 44 19.2 N 125 8.8 W DATE 22 JUL 64 1347 GCT WIRE 05 DRY 61.0 WET 55.8
WIND DIRECTION 34 VEL 07 KTS BAR 18 SWELL DIRECTION 28 H 04 T 10 CLOUD 06 AMT 06 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 16.63 | 30.571 | 5.74 | 0 | 16.63 | 30.58 | 5.74 | 22.24 | 561.1 | 0 |
| 10 | 16.52 | 30.893 | 5.73 | 10 | 16.52 | 30.90 | 5.73 | 22.51 | 535.4 | .055 |
| 30 | 10.34 | 32.107 | | 20 | 13.68 | 31.54 | 5.63 | 23.61 | 430.8 | .103 |
| 50 | 8.05 | 32.768 | 5.33 | 30 | 10.34 | 32.20 | 5.71 | 24.74 | 322.8 | .141 |
| 76 | 7.93 | 33.465 | 3.87 | 50 | 8.05 | 32.77 | 5.33 | 25.55 | 246.2 | .198 |
| 102 | 7.91 | 33.730 | 2.81 | 75 | 7.93 | 33.44 | 3.93 | 26.09 | 195.1 | .253 |
| 151 | 7.21 | 33.979 | 2.30 | 100 | 7.91 | 33.77 | 2.87 | 26.35 | 170.5 | .299 |
| 205 | 6.44 | 33.998 | 2.26 | 150 | 7.23 | 33.98 | 2.31 | 26.61 | 146.6 | .378 |
| 255 | 6.04 | 34.026 | 1.66 | 200 | 6.50 | 34.00 | 2.27 | 26.72 | 136.4 | .449 |
| 304 | 5.79 | 34.069 | 1.30 | 250 | 6.07 | 34.02 | 1.73 | 26.80 | 129.6 | .515 |
| 405 | 5.31 | 34.126 | .85 | 300 | 5.81 | 34.07 | 1.32 | 26.87 | 123.8 | .578 |
| 506 | 4.89 | 34.213 | .52 | 400 | 5.33 | 34.12 | .87 | 26.97 | 115.1 | .698 |
| 608 | 4.50 | 34.255 | .34 | 500 | 4.91 | 34.21 | .54 | 27.08 | 104.3 | .807 |
| 811 | 4.04 | 34.345 | .28 | 600 | 4.53 | 34.25 | .35 | 27.16 | 98.0 | .909 |
| 1011 | 3.50 | 34.447 | .40 | 700 | 4.27 | 34.30 | .31 | 27.23 | 91.7 | 1.003 |
| | | | | 800 | 4.06 | 34.36 | .28 | 27.30 | 86.0 | 1.092 |
| | | | | 1000 | 3.53 | 34.44 | .39 | 27.42 | 75.3 | 1.253 |

YH 065 44 19.2 N 125 36.7 W DATE 22 JUL 64 1715 GCT WIRE 04 DRY 61.0 WET 56.5
WIND DIRECTION 35 VEL 14 KTS BAR 19 SWELL DIRECTION 28 H 05 T 09 CLOUD 06 AMT 08 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 17.30 | 28.759 | 5.79 | 0 | 17.30 | 28.76 | 5.80 | 20.70 | 708.3 | 0 |
| 10 | 16.91 | 30.017 | 5.91 | 10 | 16.92 | 30.02 | 5.92 | 21.75 | 607.9 | .066 |
| 30 | 10.95 | 32.149 | 6.94 | 20 | 14.17 | 31.21 | 6.52 | 23.26 | 464.0 | .119 |
| 51 | 7.93 | 32.685 | 5.22 | 30 | 10.95 | 32.15 | 6.94 | 24.60 | 336.4 | .159 |
| 77 | 7.89 | 33.386 | 4.04 | 50 | 8.01 | 32.68 | 5.33 | 25.48 | 252.5 | .218 |
| 103 | 7.86 | 33.736 | 3.02 | 75 | 7.89 | 33.34 | 4.11 | 26.01 | 202.3 | .275 |
| 152 | 7.23 | 33.969 | 2.25 | 100 | 7.87 | 33.70 | 3.12 | 26.30 | 175.4 | .322 |
| 205 | 6.57 | 33.991 | 2.20 | 150 | 7.26 | 33.97 | 2.26 | 26.59 | 148.0 | .403 |
| 255 | 6.19 | 33.999 | 1.98 | 200 | 6.63 | 33.99 | 2.20 | 26.70 | 138.5 | .475 |
| 307 | 5.56 | 33.985 | 1.88 | 250 | 6.23 | 34.00 | 2.00 | 26.76 | 133.4 | .543 |
| 410 | 5.37 | 34.112 | .85 | 300 | 5.64 | 33.99 | 1.90 | 26.82 | 127.7 | .608 |
| 511 | 4.90 | 34.185 | .64 | 400 | 5.39 | 34.10 | .96 | 26.94 | 117.8 | .731 |
| 613 | 4.56 | 34.261 | .34 | 500 | 4.95 | 34.18 | .65 | 27.06 | 107.0 | .843 |
| 816 | 3.98 | 34.370 | .27 | 600 | 4.60 | 34.25 | .38 | 27.15 | 98.9 | .946 |
| 1022 | 3.47 | 34.465 | .38 | 700 | 4.30 | 34.31 | .31 | 27.24 | 91.5 | 1.041 |
| | | | | 800 | 4.02 | 34.36 | .28 | 27.30 | 85.2 | 1.129 |
| | | | | 1000 | 3.52 | 34.45 | .36 | 27.42 | 74.9 | 1.289 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| YH 085 44 19.1 N 126 4.1 W DATE 22 JUL 64 2045 GCT WIRE 10 DRY 63.0 WET 57.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 12 KTS BAR 20 SWELL DIRECTION 28 H 04 T 08 CLOUD 06 AMT 08 WEATHER 02 | | | | | | | | | | | | |
| 0 | 17.45 | 28.438 | 5.70 | | 0 | 17.46 | 28.44 | 5.70 | | 20.42 | 735.1 | 0 |
| 10 | 16.45 | 30.679 | 5.83 | | 10 | 16.46 | 30.68 | 5.83 | | 22.36 | 549.5 | .064 |
| 30 | 11.56 | 32.296 | 7.29 | | 20 | 14.09 | 31.81 | 6.59 | | 23.74 | 418.4 | .113 |
| 51 | 9.07 | 32.420 | 6.50 | | 30 | 11.56 | 32.29 | 7.30 | | 24.59 | 336.7 | .150 |
| 77 | 8.30 | 32.822 | 5.39 | | 50 | 9.14 | 32.41 | 6.57 | | 25.10 | 288.7 | .213 |
| 102 | 8.12 | 33.406 | 4.00 | | 75 | 8.30 | 32.78 | 5.48 | | 25.52 | 249.4 | .280 |
| 151 | 7.55 | 33.874 | 3.02 | | 100 | 8.13 | 33.36 | 4.11 | | 25.99 | 204.3 | .337 |
| 203 | 7.01 | 33.949 | 3.12 | | 150 | 7.56 | 33.87 | 3.02 | | 26.48 | 158.9 | .428 |
| 251 | 6.31 | 33.966 | 2.71 | | 200 | 7.04 | 33.94 | 3.11 | | 26.61 | 147.3 | .504 |
| 303 | 5.92 | 34.009 | 1.94 | | 250 | 6.32 | 33.97 | 2.72 | | 26.72 | 137.1 | .575 |
| 406 | 4.93 | 34.078 | 1.39 | | 300 | 5.94 | 34.01 | 1.98 | | 26.80 | 129.9 | .642 |
| 506 | 4.58 | 34.140 | .64 | | 400 | 4.98 | 34.07 | 1.41 | | 26.97 | 114.6 | .764 |
| 606 | 4.33 | 34.233 | .41 | | 500 | 4.59 | 34.14 | .68 | | 27.06 | 105.9 | .874 |
| 808 | 3.85 | 34.341 | .26 | | 600 | 4.34 | 34.22 | .42 | | 27.16 | 98.4 | .976 |
| 1010 | 3.46 | 34.438 | .32 | | 700 | 4.10 | 34.28 | .30 | | 27.23 | 91.3 | 1.071 |
| | | | | | 800 | 3.87 | 34.34 | .27 | | 27.30 | 85.4 | 1.160 |
| | | | | | 1000 | 3.48 | 34.43 | .31 | | 27.42 | 75.4 | 1.320 |
| YH 105 44 19.2 N 126 32.0 W DATE 23 JUL 64 0016 GCT WIRE 08 DRY 61.5 WET 56.5 | | | | | | | | | | | | |
| WIND DIRECTION 24 VEL 10 KTS BAR 22 SWELL DIRECTION 28 H 04 T 08 CLOUD 06 AMT 06 WEATHER 01 | | | | | | | | | | | | |
| 0 | 16.91 | 30.494 | 5.74 | | 0 | 16.92 | 30.50 | 5.74 | | 22.12 | 572.8 | 0 |
| 10 | 15.92 | 31.828 | 5.86 | | 10 | 15.92 | 31.83 | 5.86 | | 23.36 | 454.2 | .051 |
| 30 | 12.20 | 32.344 | 7.15 | | 20 | 14.17 | 32.30 | 6.52 | | 24.09 | 384.5 | .093 |
| 51 | 8.95 | 32.372 | 6.72 | | 30 | 12.20 | 32.35 | 7.16 | | 24.52 | 343.7 | .130 |
| 77 | 8.37 | 32.490 | 6.44 | | 50 | 9.07 | 32.37 | 6.76 | | 25.08 | 290.8 | .193 |
| 103 | 8.12 | 32.992 | 4.98 | | 75 | 8.41 | 32.47 | 6.48 | | 25.26 | 274.0 | .264 |
| 152 | 7.51 | 33.750 | 3.51 | | 100 | 8.14 | 32.93 | 5.17 | | 25.65 | 236.8 | .328 |
| 205 | 7.20 | 33.918 | 3.05 | | 150 | 7.53 | 33.73 | 3.54 | | 26.37 | 169.5 | .429 |
| 255 | 6.59 | 33.974 | 2.36 | | 200 | 7.23 | 33.90 | 3.07 | | 26.55 | 153.0 | .510 |
| 306 | 6.05 | 34.012 | 1.92 | | 250 | 6.66 | 33.97 | 2.43 | | 26.68 | 141.0 | .583 |
| 410 | 5.47 | 34.083 | 1.06 | | 300 | 6.11 | 34.01 | 1.88 | | 26.78 | 131.9 | .651 |
| 510 | 5.00 | 34.153 | .86 | | 400 | 5.51 | 34.08 | 1.11 | | 26.91 | 120.8 | .778 |
| 612 | 4.39 | | .38 | | 500 | 5.05 | 34.15 | .87 | | 27.02 | 110.5 | .893 |
| 815 | 3.84 | 34.338 | .26 | | 600 | 4.46 | 34.21 | .44 | | 27.14 | 100.5 | .999 |
| 1020 | 3.38 | 34.441 | .29 | | 700 | 4.09 | 34.27 | .33 | | 27.22 | 92.5 | 1.095 |
| | | | | | 800 | 3.86 | 34.32 | .27 | | 27.29 | 86.6 | 1.185 |
| | | | | | 1000 | 3.42 | 34.43 | .28 | | 27.42 | 75.0 | 1.346 |
| YH 125 44 19.2 N 127 0.0 W DATE 23 JUL 64 0330 GCT WIRE 03 DRY 59.0 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 02 VEL 16 KTS BAR 22 SWELL DIRECTION 28 H 04 T 09 CLOUD 08 AMT 02 WEATHER 02 | | | | | | | | | | | | |
| 0 | 15.85 | 32.409 | 5.85 | | 0 | 15.85 | 32.50 | 5.85 | | 23.89 | 403.4 | 0 |
| 10 | 15.66 | 32.487 | 5.87 | | 10 | 15.66 | 32.49 | 5.88 | | 23.92 | 400.5 | .040 |
| 30 | 10.47 | 32.530 | 7.56 | | 20 | 13.25 | 32.50 | 6.74 | | 24.44 | 351.5 | .078 |
| 51 | 8.70 | 32.566 | 6.60 | | 30 | 10.47 | 32.53 | 7.57 | | 24.98 | 300.3 | .110 |
| 77 | 8.46 | 32.611 | 6.65 | | 50 | 8.73 | 32.56 | 6.67 | | 25.28 | 271.3 | .168 |
| 102 | 7.98 | 32.936 | 5.56 | | 75 | 8.48 | 32.60 | 6.64 | | 25.35 | 265.3 | .235 |
| 152 | 7.90 | 33.805 | 2.96 | | 100 | 8.02 | 32.90 | 5.67 | | 25.65 | 236.7 | .297 |
| 204 | 7.31 | 33.941 | 2.66 | | 150 | 7.90 | 33.77 | 3.05 | | 26.35 | 171.1 | .399 |
| 253 | 6.69 | 33.973 | 2.37 | | 200 | 7.37 | 33.93 | 2.68 | | 26.55 | 152.8 | .480 |
| 305 | 6.20 | 33.991 | | | 250 | 6.73 | 33.97 | 2.39 | | 26.67 | 141.8 | .554 |
| 408 | 5.50 | 34.078 | 1.15 | | 300 | 6.24 | 33.99 | 1.99 | | 26.75 | 135.0 | .623 |
| 508 | 4.95 | 34.143 | .71 | | 400 | 5.55 | 34.07 | 1.21 | | 26.90 | 121.7 | .751 |
| 609 | 4.52 | 34.225 | .44 | | 500 | 4.99 | 34.14 | .74 | | 27.02 | 110.4 | .867 |
| 811 | 3.92 | 34.342 | .26 | | 600 | 4.55 | 34.22 | .46 | | 27.13 | 100.9 | .973 |
| 1015 | 3.52 | 34.456 | .34 | | 700 | 4.22 | 34.28 | .31 | | 27.22 | 92.8 | 1.070 |
| | | | | | 800 | 3.95 | 34.34 | .26 | | 27.29 | 86.3 | 1.159 |
| | | | | | 1000 | 3.54 | 34.45 | .33 | | 27.42 | 75.1 | 1.320 |
| YH 145 44 19.2 N 127 27.7 W DATE 23 JUL 64 0644 GCT WIRE 04 DRY 58.5 WET 55.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 14 KTS BAR 24 SWELL DIRECTION 28 H 05 T 09 CLOUD 08 AMT 05 WEATHER 03 | | | | | | | | | | | | |
| 0 | 15.85 | 32.477 | 5.84 | | 0 | 15.86 | 32.48 | 5.84 | | 23.87 | 405.2 | 0 |
| 10 | 15.89 | 32.475 | 5.94 | | 10 | 15.89 | 32.48 | 5.94 | | 23.86 | 406.2 | .041 |
| 30 | 12.14 | 32.546 | 7.45 | | 20 | 14.27 | 32.51 | 6.71 | | 24.23 | 370.9 | .079 |
| 51 | 9.27 | 32.547 | 6.87 | | 30 | 12.14 | 32.55 | 7.45 | | 24.69 | 327.8 | .114 |
| 77 | 8.63 | 32.605 | 6.67 | | 50 | 9.37 | 32.55 | 6.92 | | 25.17 | 282.3 | .175 |
| 102 | 8.41 | 32.610 | 6.60 | | 75 | 8.68 | 32.60 | 6.67 | | 25.32 | 268.3 | .244 |
| 152 | 7.51 | 33.461 | 4.46 | | 100 | 8.42 | 32.61 | 6.62 | | 25.36 | 264.6 | .311 |
| 204 | 7.15 | 33.868 | 3.00 | | 150 | 7.55 | 33.44 | 4.56 | | 26.14 | 191.0 | .425 |
| 254 | 6.46 | 33.916 | 3.50 | | 200 | 7.18 | 33.85 | 3.82 | | 26.52 | 156.0 | .511 |
| 306 | 5.82 | 33.921 | 2.76 | | 250 | 6.52 | 33.91 | 3.53 | | 26.65 | 144.0 | .586 |
| 409 | 5.28 | 34.022 | 1.33 | | 300 | 5.89 | 33.92 | 2.86 | | 26.74 | 135.6 | .656 |
| 509 | 4.83 | 34.101 | .81 | | 400 | 5.31 | 34.01 | 1.44 | | 26.88 | 123.1 | .786 |
| 610 | 4.58 | 34.134 | .45 | | 500 | 4.86 | 34.09 | .84 | | 27.00 | 112.2 | .903 |
| 813 | 4.02 | 34.341 | .24 | | 600 | 4.60 | 34.18 | .48 | | 27.10 | 103.9 | 1.011 |
| 1017 | 3.48 | 34.420 | .20 | | 700 | 4.34 | 34.27 | .30 | | 27.19 | 95.3 | 1.111 |
| | | | | | 800 | 4.06 | 34.33 | .25 | | 27.28 | 87.8 | 1.202 |
| | | | | | 1000 | 3.52 | 34.42 | .28 | | 27.40 | 77.2 | 1.367 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 5A 44 39.1 N 124 10.6 W DATE 06 NOV 64 2009 GCT WIRE 0 DRY 53.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 10 KTS BAR 18 SWELL DIRECTION 31 H 3 T 8 CLOUD 3 AMT 1 WEATHER | | | | | | | | | | | | |
| 0 | 11.40 | 32.410 | 6.20 | | 0 | 11.40 | 32.42 | 6.20 | | 24.72 | 324.2 | 0 |
| 10 | 11.34 | 32.409 | 6.22 | | 10 | 11.34 | 32.41 | 6.22 | | 24.73 | 323.4 | .032 |
| 20 | 11.32 | 32.432 | 6.17 | | 20 | 11.32 | 32.44 | 6.18 | | 24.75 | 321.6 | .065 |
| 30 | 11.18 | 32.709 | 6.06 | | 30 | 11.18 | 32.71 | 6.07 | | 24.99 | 298.9 | .096 |
| 40 | 11.00 | 33.736 | 5.91 | | 50 | 9.37 | 32.55 | | | 25.17 | 282.3 | .154 |
| NH 5B 44 39.1 N 124 10.6 W DATE 06 NOV 64 2024 GCT WIRE 0 DRY 53.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 10 KTS BAR 18 SWELL DIRECTION 31 H 3 T 8 CLOUD 3 AMT 1 WEATHER | | | | | | | | | | | | |
| 0 | 0 | 32.409 | 6.22 | | 0 | 11.40 | 32.41 | 6.22 | | 24.72 | 324.3 | 0 |
| 10 | 11.38 | 32.420 | 6.28 | | 10 | 11.38 | 32.42 | 6.29 | | 24.73 | 323.3 | .032 |
| 20 | 11.34 | 32.430 | 6.26 | | 20 | 11.34 | 32.43 | 6.27 | | 24.75 | 322.1 | .065 |
| 30 | 11.26 | 32.459 | 6.16 | | 30 | 11.26 | 32.46 | 6.17 | | 24.78 | 318.8 | .097 |
| 40 | 11.14 | 32.579 | 5.99 | | 50 | 10.84 | 32.71 | 5.82 | | 25.05 | 293.6 | .158 |
| 50 | 10.84 | 32.708 | 5.81 | | 75 | 8.68 | 32.60 | | | 25.32 | 268.3 | .228 |
| NH 15 44 39.1 N 124 24.5 W DATE 06 NOV 64 2214 GCT WIRE 0 DRY 55.5 WET 49.5 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 10 KTS BAR 17 SWELL DIRECTION 32 H 3 T 8 CLOUD 3 AMT 1 WEATHER | | | | | | | | | | | | |
| 0 | 12.35 | 32.072 | 6.17 | | 0 | 12.35 | 32.08 | 6.18 | | 24.28 | 365.9 | 0 |
| 10 | 12.24 | 32.081 | 6.09 | | 10 | 12.24 | 32.09 | 6.09 | | 24.31 | 363.4 | .036 |
| 20 | 11.77 | 32.242 | 6.02 | | 20 | 11.77 | 32.25 | 6.03 | | 24.52 | 343.4 | .072 |
| 30 | 10.41 | 32.517 | 5.37 | | 30 | 10.41 | 32.52 | 5.38 | | 24.98 | 300.3 | .104 |
| 40 | 9.21 | 32.906 | 4.73 | | 50 | 8.36 | 33.53 | 4.23 | | 26.09 | 194.3 | .153 |
| 50 | 8.36 | 33.526 | | | 75 | 8.23 | 33.58 | 3.58 | | 26.15 | 189.5 | .201 |
| 75 | 8.23 | 33.571 | 3.57 | | 100 | 8.42 | 32.61 | | | 25.36 | 264.6 | .258 |
| NH 25 44 39.1 N 124 38.5 W DATE 07 NOV 64 0013 GCT WIRE DRY 59.5 WET 52.5 | | | | | | | | | | | | |
| WIND DIRECTION 27 VEL 8 KTS BAR 17 SWELL DIRECTION 32 H 4 T 8 CLOUD 3 AMT 1 WEATHER | | | | | | | | | | | | |
| 0 | 12.98 | 31.974 | 6.08 | | 0 | 12.98 | 31.98 | 6.08 | | 24.09 | 384.6 | 0 |
| 10 | 12.83 | 31.976 | 6.07 | | 10 | 12.83 | 31.98 | 6.07 | | 24.12 | 381.9 | .038 |
| 20 | 11.82 | 32.215 | 5.67 | | 20 | 11.82 | 32.22 | 5.68 | | 24.49 | 346.3 | .075 |
| 30 | 8.40 | 32.803 | 4.98 | | 30 | 8.40 | 32.81 | 4.98 | | 25.52 | 248.3 | .104 |
| 40 | 7.93 | 33.031 | 4.66 | | 50 | 7.94 | 33.21 | 4.26 | | 25.90 | 212.5 | .151 |
| 50 | 7.94 | 33.201 | 4.25 | | 75 | 8.19 | 33.78 | 3.04 | | 26.31 | 173.9 | .199 |
| 75 | 8.19 | 33.773 | 3.04 | | 100 | 8.05 | 33.81 | 2.79 | | 26.36 | 170.1 | .242 |
| 100 | 8.05 | | 2.79 | | 150 | 8.04 | 33.88 | 2.64 | | 26.41 | 165.6 | .326 |
| 150 | 8.04 | 33.877 | 2.63 | | 200 | 7.89 | 33.85 | 2.63 | | 26.42 | 165.9 | .409 |
| 200 | 7.89 | | 2.63 | | 250 | 6.52 | 33.91 | | | 26.65 | 144.0 | .486 |
| NH 35 44 39.1 N 124 52.8 W DATE 07 NOV 64 0056 GCT WIRE 0 DRY 56.5 WET 53.0 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 12 KTS BAR 17 SWELL DIRECTION 32 H 4 T 8 CLOUD 3 AMT 2 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.37 | 32.133 | 6.03 | | 0 | 13.38 | 32.14 | 6.04 | | 24.13 | 380.2 | 0 |
| 10 | 13.25 | 32.134 | 5.95 | | 10 | 13.25 | 32.14 | 5.95 | | 24.16 | 378.0 | .038 |
| 20 | 13.38 | 32.131 | 6.01 | | 20 | 13.38 | 32.14 | 6.02 | | 24.13 | 381.0 | .076 |
| 30 | 13.08 | 32.122 | 6.02 | | 30 | 13.08 | 32.13 | 6.03 | | 24.18 | 376.2 | .114 |
| 40 | 9.63 | 32.384 | 5.95 | | 50 | 8.36 | 32.58 | 5.61 | | 25.35 | 264.8 | .178 |
| 50 | 8.36 | 32.577 | 5.61 | | 75 | 7.96 | 33.01 | 4.68 | | 25.75 | 227.5 | .239 |
| 75 | 7.96 | 33.007 | 4.68 | | 100 | 7.57 | 33.46 | 3.86 | | 26.16 | 188.8 | .291 |
| 100 | 7.56 | 33.458 | | | 150 | 7.67 | 33.91 | 2.73 | | 26.49 | 157.6 | .378 |
| 125 | 7.74 | 33.865 | | | 200 | 7.34 | 33.96 | 2.46 | | 26.58 | 150.0 | .455 |
| 150 | 7.66 | 33.906 | 2.73 | | 250 | 6.95 | 33.99 | 2.28 | | 26.65 | 143.7 | .528 |
| 200 | 7.34 | 33.959 | 2.46 | | 300 | 6.72 | 34.02 | 1.68 | | 26.71 | 139.2 | .599 |
| 250 | 6.95 | 33.983 | 2.28 | | 400 | 6.60 | 34.02 | 1.82 | | 26.73 | 138.7 | .738 |
| 299 | 6.72 | 34.016 | 1.68 | | 500 | 4.86 | 34.09 | | | 27.00 | 112.2 | .863 |
| 399 | 6.60 | 34.024 | 1.82 | | 600 | 4.60 | 34.18 | | | 27.10 | 103.9 | .971 |
| NH 45 44 39.1 N 125 6.9 W DATE 07 NOV 64 0330 GCT WIRE 8 DRY 56.5 WET 54.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 4 KTS BAR 19 SWELL DIRECTION 30 H 2 T 9 CLOUD AMT WEATHER 00 | | | | | | | | | | | | |
| 0 | 12.47 | 31.959 | 6.19 | | 0 | 12.47 | 31.96 | 6.19 | | 24.17 | 376.4 | 0 |
| 10 | 12.48 | 31.954 | 6.22 | | 10 | 12.48 | 31.96 | 6.22 | | 24.17 | 377.1 | .038 |
| 20 | 12.26 | 31.944 | 6.20 | | 20 | 12.26 | 31.95 | 6.20 | | 24.20 | 374.1 | .075 |
| 30 | 10.65 | 32.289 | 5.65 | | 30 | 10.65 | 32.29 | 5.66 | | 24.76 | 321.1 | .110 |
| 50 | 8.02 | 32.936 | 4.48 | | 50 | 8.02 | 32.94 | 4.48 | | 25.68 | 233.3 | .165 |
| 75 | 7.80 | 33.586 | 3.34 | | 75 | 7.81 | 33.60 | 3.35 | | 26.23 | 181.7 | .217 |
| 99 | 7.70 | 33.749 | 3.10 | | 100 | 7.69 | 33.75 | 3.10 | | 26.37 | 169.0 | .261 |
| 124 | 7.48 | 33.839 | 3.11 | | 150 | 7.34 | 33.89 | 2.76 | | 26.53 | 154.4 | .342 |
| 149 | 7.35 | 33.892 | 2.77 | | 200 | 6.75 | 33.97 | 2.37 | | 26.67 | 141.7 | .416 |
| 198 | 6.77 | 33.967 | 2.38 | | 250 | 6.36 | 33.99 | 2.06 | | 26.73 | 135.8 | .485 |
| 248 | 6.37 | 33.997 | 2.09 | | 300 | 6.03 | 34.02 | 1.61 | | 26.80 | 130.0 | .552 |
| 296 | 6.06 | 34.019 | 1.64 | | 400 | 5.43 | 34.07 | 1.04 | | 26.92 | 120.2 | .677 |
| 395 | 5.46 | 34.064 | 1.07 | | 500 | 4.86 | 34.09 | | | 27.00 | 112.2 | .793 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 65 44 39.1 N 125 35.0 W DATE 07 NOV 64 1035 GCT WIRE 14 DRY 54.0 WET 48.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 24 KTS BAR 17 SWELL DIRECTION 35 H 5 T CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 13.93 | 32.164 | 5.95 | | 0 | 13.93 | 32.17 | 5.95 | | 24.04 | 388.7 | 0 |
| 10 | 13.94 | 32.161 | 6.04 | | 10 | 13.94 | 32.17 | 6.05 | | 24.04 | 389.4 | .039 |
| 30 | 13.91 | 32.165 | 6.06 | | 20 | 13.92 | 32.16 | 6.04 | | 24.04 | 389.4 | .078 |
| 50 | 8.66 | 32.536 | 6.30 | | 30 | 13.91 | 32.17 | 6.07 | | 24.05 | 388.9 | .117 |
| 76 | 7.76 | 32.843 | 5.56 | | 50 | 8.66 | 32.54 | 6.40 | | 25.27 | 272.2 | .183 |
| 102 | 7.97 | 33.508 | 3.12 | | 75 | 7.79 | 32.83 | 5.62 | | 25.63 | 238.8 | .247 |
| 152 | 7.83 | 33.804 | 2.00 | | 100 | 7.94 | 33.55 | 3.31 | | 26.17 | 187.6 | .300 |
| 203 | 7.31 | 33.978 | 1.93 | | 150 | 7.85 | 33.88 | 2.04 | | 26.45 | 162.3 | .387 |
| 253 | 6.79 | 34.012 | 1.81 | | 200 | 7.35 | 33.98 | 1.92 | | 26.59 | 149.1 | .465 |
| 301 | 6.35 | 34.036 | 1.55 | | 250 | 6.82 | 34.01 | 1.82 | | 26.69 | 140.2 | .538 |
| 399 | 5.87 | 34.084 | 1.07 | | 300 | 6.39 | 34.04 | 1.56 | | 26.77 | 133.4 | .606 |
| 498 | 5.36 | 34.121 | .77 | | 400 | 5.86 | 34.08 | 1.07 | | 26.87 | 124.6 | .735 |
| 598 | 4.82 | 34.178 | .51 | | 500 | 5.35 | 34.12 | .76 | | 26.97 | 115.9 | .855 |
| 797 | 4.20 | 34.336 | .30 | | 600 | 4.81 | 34.18 | .51 | | 27.07 | 106.8 | .967 |
| 996 | 3.54 | 34.413 | .30 | | 700 | 4.47 | 34.26 | .36 | | 27.18 | 97.3 | 1.068 |
| | | | | | 800 | 4.19 | 34.34 | .30 | | 27.27 | 89.1 | 1.162 |
| | | | | | 1000 | 3.53 | 34.41 | .30 | | 27.40 | 77.4 | 1.328 |
| NH 85 44 39.1 N 126 3.1 W DATE 07 NOV 64 1555 GCT WIRE 12 DRY 52.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 25 KTS BAR 17 SWELL DIRECTION 01 H 7 T 7 CLOUD 1 AMT 7 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.05 | 32.171 | 6.04 | | 0 | 13.05 | 32.18 | 6.05 | | 24.22 | 371.4 | 0 |
| 10 | 13.03 | 32.170 | 6.03 | | 10 | 13.03 | 32.17 | 6.04 | | 24.23 | 371.3 | .037 |
| 21 | 13.06 | 32.169 | 6.06 | | 20 | 13.06 | 32.17 | 6.06 | | 24.22 | 372.4 | .074 |
| 31 | 13.01 | 32.196 | 6.06 | | 30 | 13.04 | 32.19 | 6.06 | | 24.24 | 370.7 | .111 |
| 50 | 10.17 | 32.522 | 6.43 | | 50 | 10.17 | 32.53 | 6.44 | | 25.02 | 296.4 | .178 |
| 76 | 9.06 | 32.884 | 5.38 | | 75 | 9.07 | 32.87 | 5.44 | | 25.47 | 254.0 | .247 |
| 101 | 8.39 | 33.176 | 4.33 | | 100 | 8.41 | 33.16 | 4.37 | | 25.80 | 222.9 | .307 |
| 152 | 7.91 | 33.887 | 2.87 | | 150 | 7.92 | 33.87 | 2.91 | | 26.43 | 164.0 | .403 |
| 203 | 7.30 | 33.951 | 2.52 | | 200 | 7.34 | 33.95 | 2.53 | | 26.57 | 151.1 | .482 |
| 300 | 6.24 | 34.031 | 1.66 | | 250 | 6.76 | 33.99 | 2.10 | | 26.69 | 140.5 | .555 |
| 401 | 5.53 | 34.066 | 1.17 | | 300 | 6.24 | 34.04 | 1.67 | | 26.79 | 131.6 | .623 |
| 502 | 5.11 | 34.131 | .76 | | 400 | 5.54 | 34.06 | 1.17 | | 26.90 | 122.0 | .750 |
| | | | | | 500 | 5.12 | 34.13 | .77 | | 27.00 | 112.6 | .867 |
| NH 105 44 39.1 N 126 31.0 W DATE 07 NOV 64 1931 GCT WIRE 10 DRY 54.5 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 28 KTS BAR 17 SWELL DIRECTION 01 H 7 T 8 CLOUD 1 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 13.27 | 32.151 | 6.08 | | 0 | 13.27 | 32.16 | 6.08 | | 24.17 | 377.0 | 0 |
| 10 | 13.37 | 32.147 | 6.04 | | 10 | 13.38 | 32.15 | 6.05 | | 24.14 | 379.4 | .038 |
| 21 | 13.27 | 32.148 | 6.03 | | 20 | 13.31 | 32.15 | 6.03 | | 24.15 | 378.7 | .076 |
| 31 | 12.08 | 32.375 | 6.36 | | 30 | 12.23 | 32.35 | 6.32 | | 24.52 | 344.2 | .112 |
| 50 | 8.43 | 32.531 | 6.59 | | 50 | 8.43 | 32.54 | 6.59 | | 25.30 | 269.2 | .173 |
| 76 | 7.79 | 32.569 | 6.52 | | 75 | 7.81 | 32.56 | 6.54 | | 25.41 | 259.3 | .239 |
| 101 | 8.14 | 32.933 | 5.24 | | 100 | 8.12 | 32.91 | 5.30 | | 25.65 | 237.3 | .301 |
| 153 | 7.77 | 33.702 | 3.04 | | 150 | 7.81 | 33.75 | 3.14 | | 26.35 | 171.7 | .404 |
| 205 | 7.29 | 33.962 | 2.27 | | 200 | 7.34 | 33.95 | 2.31 | | 26.57 | 151.3 | .484 |
| 307 | 5.99 | 34.005 | 1.78 | | 250 | 6.69 | 34.00 | 2.00 | | 26.70 | 139.3 | .557 |
| 409 | 5.54 | 34.110 | .87 | | 300 | 6.07 | 34.00 | 1.80 | | 26.78 | 131.9 | .625 |
| 512 | 5.12 | 34.183 | .53 | | 400 | 5.56 | 34.10 | .95 | | 26.92 | 119.7 | .750 |
| 612 | 4.62 | 34.233 | .33 | | 500 | 5.17 | 34.18 | .55 | | 27.03 | 109.8 | .865 |
| 816 | 3.84 | 34.325 | .24 | | 600 | 4.68 | 34.23 | .35 | | 27.13 | 101.6 | .971 |
| 1026 | 3.45 | 34.427 | .33 | | 700 | 4.24 | 34.27 | .25 | | 27.21 | 93.7 | 1.068 |
| | | | | | 800 | 3.89 | 34.32 | .25 | | 27.28 | 87.0 | 1.159 |
| | | | | | 1000 | 3.48 | 34.41 | .31 | | 27.40 | 76.8 | 1.322 |
| NH 125 44 39.1 N 126 59.0 W DATE 07 NOV 64 2303 GCT WIRE 6 DRY 55.5 WET 48.5 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 22 KTS BAR 16 SWELL DIRECTION 01 H 10 T 7 CLOUD 6 AMT 9 WEATHER | | | | | | | | | | | | |
| 0 | 14.07 | 32.123 | 5.93 | | 0 | 14.07 | 32.13 | 5.94 | | 23.98 | 394.5 | 0 |
| 10 | 14.06 | 32.118 | 5.94 | | 10 | 14.06 | 32.12 | 5.94 | | 23.98 | 394.9 | .039 |
| 21 | 14.09 | 32.120 | 5.95 | | 20 | 14.09 | 32.12 | 5.95 | | 23.97 | 395.8 | .079 |
| 31 | 14.06 | 32.116 | 5.99 | | 30 | 14.08 | 32.12 | 5.98 | | 23.97 | 396.1 | .119 |
| 50 | 12.21 | 32.377 | 6.35 | | 50 | 12.21 | 32.38 | 6.35 | | 24.54 | 341.9 | .192 |
| 76 | 8.17 | 32.587 | 6.42 | | 75 | 8.30 | 32.58 | 6.42 | | 25.36 | 264.6 | .268 |
| 101 | 8.19 | 33.092 | 4.96 | | 100 | 8.19 | 33.07 | 5.03 | | 25.76 | 226.8 | .330 |
| 152 | 7.71 | 33.836 | 3.14 | | 150 | 7.74 | 33.82 | 3.19 | | 26.41 | 165.7 | .428 |
| 204 | 7.21 | 34.006 | 2.20 | | 200 | 7.25 | 34.01 | 2.25 | | 26.63 | 145.6 | .505 |
| 304 | 6.56 | 34.074 | 1.53 | | 250 | 6.89 | 34.06 | 1.75 | | 26.72 | 137.3 | .576 |
| 405 | 5.81 | 34.093 | 1.52 | | 300 | 6.58 | 34.07 | 1.53 | | 26.77 | 133.3 | .644 |
| 507 | 5.16 | 34.173 | .75 | | 400 | 5.85 | 34.08 | 1.52 | | 26.87 | 124.6 | .773 |
| 606 | 4.45 | 34.198 | .39 | | 500 | 5.20 | 34.17 | .81 | | 27.02 | 110.9 | .890 |
| 808 | 3.35 | 34.334 | .23 | | 600 | 4.49 | 34.20 | .40 | | 27.12 | 101.7 | .997 |
| 1015 | 3.42 | 34.430 | .30 | | 700 | 4.14 | 34.26 | .25 | | 27.21 | 93.8 | 1.094 |
| | | | | | 800 | 3.97 | 34.33 | .24 | | 27.28 | 87.2 | 1.185 |
| | | | | | 1000 | 3.46 | 34.42 | .29 | | 27.41 | 75.9 | 1.348 |

| OBSERVED | | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH 145 44 39.1 N 127 27.0 W DATE 08 NOV 64 0256 GCT WIRE 10 DRY 55.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 20 KTS BAR 15 SWELL DIRECTION 01 H 10 T 8 CLOUD AMT WEATHER 00 | | | | | | | | | | | | |
| 0 | 13.88 | 32.148 | 5.99 | | 0 | 13.88 | 32.15 | 5.99 | | 24.04 | 388.9 | 0 |
| 10 | 13.86 | 32.137 | 5.99 | | 10 | 13.86 | 32.14 | 5.99 | | 24.04 | 389.6 | .039 |
| 20 | 13.83 | 32.142 | 6.01 | | 20 | 13.83 | 32.15 | 6.02 | | 24.05 | 388.8 | .078 |
| 30 | 13.72 | 32.339 | 5.98 | | 30 | 13.72 | 32.34 | 5.98 | | 24.22 | 372.5 | .116 |
| 50 | 9.84 | 32.631 | 6.16 | | 50 | 9.84 | 32.64 | 6.17 | | 25.16 | 283.0 | .181 |
| 76 | 9.34 | 32.923 | 5.76 | | 75 | 9.36 | 32.91 | 5.79 | | 25.45 | 255.4 | .249 |
| 101 | 9.13 | 33.238 | 4.96 | | 100 | 9.14 | 33.23 | 4.99 | | 25.73 | 229.3 | .309 |
| 153 | 7.92 | 33.826 | 3.94 | | 150 | 8.00 | 33.80 | 3.99 | | 26.36 | 170.6 | .409 |
| 204 | 7.29 | 33.955 | 2.43 | | 200 | 7.28 | 33.95 | 2.54 | | 26.58 | 149.9 | .489 |
| 309 | 6.17 | 34.017 | 1.77 | | 250 | 6.71 | 34.00 | 1.95 | | 26.69 | 139.8 | .562 |
| 406 | 5.70 | 34.112 | .99 | | 300 | 6.24 | 34.02 | 1.83 | | 26.77 | 133.0 | .630 |
| 509 | 4.77 | 34.101 | .83 | | 400 | 5.73 | 34.11 | 1.03 | | 26.91 | 121.2 | .757 |
| 609 | 4.41 | 34.105 | .42 | | 500 | 4.85 | 34.10 | .84 | | 27.01 | 111.4 | .873 |
| 813 | 3.89 | 34.336 | .27 | | 600 | 4.43 | 34.18 | .46 | | 27.12 | 101.9 | .980 |
| 1024 | 3.38 | 34.428 | .27 | | 700 | 4.16 | 34.27 | .29 | | 27.21 | 93.3 | 1.077 |
| | | | | | 800 | 3.92 | 34.33 | .28 | | 27.29 | 86.6 | 1.167 |
| | | | | | 1000 | 3.44 | 34.42 | .27 | | 27.41 | 75.9 | 1.330 |
| CH 145 43 20.5 N 127 40.3 W DATE 08 NOV 64 1155 GCT WIRE 15 DRY 54.7 WET 49.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 22 KTS BAR 11 SWELL DIRECTION 01 H 10 T 6 CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 13.80 | 32.317 | 5.91 | | 0 | 13.80 | 32.32 | 5.92 | | 24.19 | 375.0 | 0 |
| 10 | 13.79 | 32.329 | 5.93 | | 10 | 13.79 | 32.33 | 5.94 | | 24.20 | 374.1 | .037 |
| 21 | 13.78 | 32.313 | 5.97 | | 20 | 13.78 | 32.31 | 5.97 | | 24.19 | 375.5 | .075 |
| 31 | 13.77 | 32.319 | 5.99 | | 30 | 13.77 | 32.32 | 5.98 | | 24.19 | 375.4 | .112 |
| 50 | 10.97 | 32.487 | 6.52 | | 50 | 10.97 | 32.49 | 6.53 | | 24.86 | 312.1 | .181 |
| 74 | 8.37 | 32.567 | 6.46 | | 75 | 8.33 | 32.57 | 6.45 | | 25.35 | 265.7 | .253 |
| 100 | 7.91 | 32.603 | 6.32 | | 100 | 7.92 | 32.61 | 6.32 | | 25.44 | 257.2 | .319 |
| 151 | 7.33 | 33.575 | 4.41 | | 150 | 7.34 | 33.55 | 4.45 | | 26.26 | 179.7 | .428 |
| 202 | 7.11 | 33.910 | 3.22 | | 200 | 7.12 | 33.90 | 3.26 | | 26.57 | 151.3 | .511 |
| 301 | 5.84 | 33.964 | 2.16 | | 250 | 6.53 | 33.94 | 2.56 | | 26.67 | 142.0 | .584 |
| 401 | 5.07 | 34.014 | 1.77 | | 300 | 5.85 | 33.96 | 2.16 | | 26.78 | 132.0 | .652 |
| 502 | 4.69 | 34.095 | .81 | | 400 | 5.08 | 34.01 | 1.77 | | 26.91 | 120.2 | .779 |
| 600 | 4.38 | 34.210 | .41 | | 500 | 4.70 | 34.09 | .83 | | 27.02 | 110.3 | .894 |
| 803 | 3.93 | 34.344 | .20 | | 600 | 4.39 | 34.21 | .42 | | 27.15 | 99.1 | .998 |
| 1012 | 3.39 | 34.453 | .31 | | 700 | 4.15 | 34.29 | .23 | | 27.23 | 91.6 | 1.094 |
| | | | | | 800 | 3.94 | 34.34 | .20 | | 27.30 | 85.7 | 1.182 |
| | | | | | 1000 | 3.42 | 34.45 | .29 | | 27.43 | 73.7 | 1.342 |
| CH 125 43 20.5 N 127 13.0 W DATE 08 NOV 64 1557 GCT WIRE 14 DRY 52.0 WET 46.0 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 22 KTS BAR 11 SWELL DIRECTION 01 H 10 T 10 CLOUD 5 AMT 10 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.78 | 32.339 | 6.06 | | 0 | 12.78 | 32.34 | 6.07 | | 24.41 | 354.0 | 0 |
| 10 | 12.78 | 32.340 | 6.04 | | 10 | 12.78 | 32.34 | 6.05 | | 24.41 | 354.2 | .035 |
| 21 | 12.72 | 32.338 | 6.09 | | 20 | 12.73 | 32.34 | 6.09 | | 24.41 | 353.8 | .071 |
| 30 | 12.63 | 32.347 | 6.06 | | 30 | 12.63 | 32.35 | 6.07 | | 24.44 | 351.3 | .106 |
| 50 | 9.68 | 32.732 | 5.93 | | 50 | 9.68 | 32.73 | 5.94 | | 25.26 | 273.8 | .169 |
| 75 | 9.24 | 33.030 | 5.15 | | 75 | 9.24 | 33.04 | 5.16 | | 25.57 | 244.6 | .233 |
| 100 | 8.08 | 33.452 | 4.00 | | 100 | 8.08 | 33.46 | 4.01 | | 26.08 | 196.5 | .288 |
| 150 | 7.44 | 33.740 | 3.56 | | 150 | 7.44 | 33.75 | 3.57 | | 26.40 | 166.9 | .379 |
| 201 | 7.27 | 33.960 | 2.52 | | 200 | 7.27 | 33.96 | 2.54 | | 26.59 | 149.6 | .458 |
| 302 | 6.17 | 34.013 | 1.67 | | 250 | 6.76 | 33.99 | 1.98 | | 26.68 | 141.3 | .531 |
| 402 | 5.70 | 34.058 | 1.29 | | 300 | 6.19 | 34.01 | 1.68 | | 26.77 | 132.7 | .600 |
| 504 | 5.10 | 34.135 | .79 | | 400 | 5.71 | 34.06 | 1.30 | | 26.87 | 124.7 | .728 |
| 604 | 4.37 | 34.178 | .38 | | 500 | 5.13 | 34.13 | .81 | | 27.00 | 112.5 | .847 |
| 808 | 3.99 | 34.326 | .23 | | 600 | 4.40 | 34.18 | .39 | | 27.12 | 102.1 | .954 |
| 1017 | 3.50 | 34.431 | .33 | | 700 | 4.10 | 34.25 | .24 | | 27.20 | 94.2 | 1.052 |
| | | | | | 800 | 3.99 | 34.32 | .24 | | 27.27 | 88.1 | 1.143 |
| | | | | | 1000 | 3.54 | 34.42 | .31 | | 27.40 | 76.8 | 1.308 |
| CH 105 43 20.5 N 125 45.8 W DATE 08 NOV 64 1945 GCT WIRE 3 DRY 52.5 WET 46.5 | | | | | | | | | | | | |
| WIND DIRECTION 01 VEL 24 KTS BAR 12 SWELL DIRECTION 01 H 10 T 10 CLOUD 1 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 13.25 | 32.214 | 6.07 | | 0 | 13.25 | 32.22 | 6.07 | | 24.22 | 372.0 | 0 |
| 10 | 13.23 | 32.210 | 6.07 | | 10 | 13.23 | 32.21 | 6.07 | | 24.22 | 372.1 | .037 |
| 21 | 13.23 | 32.210 | 6.09 | | 20 | 13.23 | 32.21 | 6.09 | | 24.22 | 372.6 | .074 |
| 31 | 13.21 | 32.212 | 6.07 | | 30 | 13.22 | 32.21 | 6.07 | | 24.22 | 372.3 | .112 |
| 51 | 12.01 | 32.526 | 6.03 | | 50 | 12.10 | 32.50 | 6.09 | | 24.66 | 330.8 | .182 |
| 77 | 9.07 | 33.188 | 4.32 | | 75 | 9.29 | 33.14 | 5.02 | | 25.64 | 237.6 | .253 |
| 103 | 7.81 | 33.425 | 4.29 | | 100 | 7.89 | 33.41 | 4.35 | | 26.07 | 197.4 | .307 |
| 155 | 7.37 | 33.872 | 3.05 | | 150 | 7.41 | 33.84 | 3.16 | | 26.47 | 159.7 | .397 |
| 207 | 7.33 | 34.001 | 2.31 | | 200 | 7.34 | 33.99 | 2.39 | | 26.61 | 147.6 | .473 |
| 308 | 6.66 | 34.083 | 1.43 | | 250 | 7.10 | 34.06 | 1.86 | | 26.69 | 140.5 | .545 |
| 410 | 5.92 | 34.111 | 1.05 | | 300 | 6.73 | 34.09 | 1.48 | | 26.77 | 133.8 | .614 |
| 513 | 5.33 | 34.162 | .59 | | 400 | 5.99 | 34.11 | 1.08 | | 26.88 | 124.3 | .743 |
| 613 | 4.71 | 34.231 | .37 | | 500 | 5.40 | 34.15 | .73 | | 26.98 | 114.2 | .862 |
| 816 | 4.01 | 34.350 | .25 | | 600 | 4.79 | 34.22 | .41 | | 27.11 | 103.3 | .971 |
| 1026 | 3.42 | 34.444 | .40 | | 700 | 4.36 | 34.29 | .26 | | 27.21 | 94.1 | 1.070 |
| | | | | | 800 | 4.05 | 34.34 | .26 | | 27.28 | 87.1 | 1.160 |
| | | | | | 1000 | 3.49 | 34.43 | .37 | | 27.41 | 75.5 | 1.323 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |

CH 85 43 20.5 N 125 18.5 W DATE 08 NOV 64 2330 GCT WIRE 4 DRY 55.5 WET 49.5
WIND DIRECTION 35 VEL 20 KTS BAR 10 SWELL DIRECTION 35 H 10 T 5 CLOUD 8 AMT 5 WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.41 | 32.210 | 6.06 | 0 | 12.41 | 32.21 | 6.07 | | 24.38 | 356.8 | 0 |
| 10 | 13.03 | 32.203 | 6.06 | 10 | 13.03 | 32.21 | 6.07 | | 24.25 | 368.9 | .036 |
| 21 | 13.03 | 32.204 | 6.16 | 20 | 13.03 | 32.20 | 6.15 | | 24.25 | 369.3 | .073 |
| 31 | 13.01 | 32.203 | 6.18 | 30 | 13.02 | 32.20 | 6.18 | | 24.25 | 369.3 | .110 |
| 51 | 12.47 | 32.291 | 6.15 | 50 | 12.53 | 32.28 | 6.15 | | 24.41 | 354.8 | .183 |
| 77 | 8.74 | 32.557 | 5.09 | 75 | 9.03 | 32.62 | 6.12 | | 25.28 | 271.8 | .261 |
| 103 | 8.42 | 33.087 | 4.89 | 100 | 8.46 | 33.04 | 5.05 | | 25.69 | 233.1 | .324 |
| 155 | 8.16 | 33.863 | 2.88 | 150 | 8.18 | 33.81 | 3.03 | | 26.34 | 172.8 | .425 |
| 207 | 7.59 | 33.960 | 2.49 | 200 | 7.68 | 33.94 | 2.49 | | 26.51 | 156.6 | .508 |
| 308 | 6.38 | 34.009 | 1.87 | 250 | 7.05 | 33.98 | 2.21 | | 26.64 | 145.3 | .583 |
| 410 | 5.72 | 34.070 | 1.26 | 300 | 6.47 | 34.01 | 1.92 | | 26.73 | 136.6 | .654 |
| 512 | 5.22 | 34.133 | .79 | 400 | 5.77 | 34.06 | 1.32 | | 26.87 | 124.9 | .784 |
| 612 | 4.82 | 34.216 | .37 | 500 | 5.27 | 34.12 | .84 | | 26.98 | 114.8 | .904 |
| 816 | 4.28 | 34.331 | .25 | 600 | 4.86 | 34.21 | .41 | | 27.09 | 105.4 | 1.014 |
| 1025 | 3.63 | 34.408 | .25 | 700 | 4.57 | 34.27 | .25 | | 27.17 | 97.6 | 1.116 |
| | | | | 800 | 4.32 | 34.32 | .26 | | 27.24 | 91.6 | 1.210 |
| | | | | 1000 | 3.71 | 34.40 | .25 | | 27.37 | 80.5 | 1.382 |

CH 65 43 20.5 N 125 51.7 W DATE 09 NOV 64 0319 GCT WIRE 3 DRY 53.0 WET 48.0
WIND DIRECTION 03 VEL 18 KTS BAR 09 SWELL DIRECTION 01 H T CLOUD AMT WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.56 | 32.223 | 6.17 | 0 | 12.56 | 32.23 | 6.18 | | 24.36 | 358.5 | 0 |
| 10 | 12.56 | 32.222 | 6.16 | 10 | 12.56 | 32.23 | 6.17 | | 24.36 | 358.8 | .036 |
| 20 | 12.56 | 32.227 | 6.17 | 20 | 12.56 | 32.23 | 6.18 | | 24.36 | 358.7 | .072 |
| 50 | 9.25 | 32.508 | 6.47 | 30 | 11.61 | 32.30 | 6.30 | | 24.59 | 336.7 | .106 |
| 76 | 8.11 | 32.703 | 5.93 | 50 | 9.25 | 32.51 | 6.47 | | 25.16 | 283.0 | .168 |
| 102 | 8.50 | 33.298 | 4.62 | 75 | 8.12 | 32.69 | 5.96 | | 25.47 | 253.6 | .236 |
| 154 | 7.98 | 33.872 | 2.98 | 100 | 8.45 | 33.24 | 4.73 | | 25.85 | 217.9 | .294 |
| 204 | 7.50 | 33.993 | 2.39 | 150 | 8.05 | 33.85 | 2.97 | | 26.39 | 167.7 | .391 |
| 254 | 7.12 | 34.003 | 2.08 | 200 | 7.62 | 33.98 | 2.40 | | 26.56 | 152.4 | .471 |
| 304 | 6.79 | 34.014 | 1.99 | 250 | 7.16 | 34.00 | 2.10 | | 26.64 | 145.4 | .545 |
| 407 | 5.94 | | | 300 | 6.81 | 34.01 | 1.99 | | 26.69 | 140.8 | .617 |
| 507 | 5.37 | 34.141 | .73 | 400 | 6.00 | 34.06 | 1.45 | | 26.84 | 127.9 | .751 |
| 609 | 4.98 | 34.223 | .33 | 500 | 5.40 | 34.14 | .78 | | 26.97 | 115.6 | .873 |
| 810 | 4.23 | 34.338 | .24 | 600 | 5.01 | 34.22 | .36 | | 27.08 | 106.5 | .984 |
| 1014 | 3.65 | 34.415 | .29 | 700 | 4.63 | 34.28 | .29 | | 27.17 | 97.7 | 1.086 |
| | | | | 800 | 4.26 | 34.33 | .24 | | 27.26 | 90.3 | 1.180 |
| | | | | 1000 | 3.68 | 34.41 | .28 | | 27.38 | 79.5 | 1.349 |

CH 45 43 20.5 N 125 24.3 W DATE 09 NOV 64 0620 GCT WIRE 0 DRY 52.0 WET 46.0
WIND DIRECTION 00 VEL 20 KTS BAR 09 SWELL DIRECTION 35 H 3 T 8 CLOUD AMT WEATHER 02

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.18 | 32.213 | 6.17 | 0 | 12.18 | 32.22 | 6.18 | | 24.42 | 352.4 | 0 |
| 10 | 12.17 | 32.220 | 6.22 | 10 | 12.17 | 32.22 | 6.22 | | 24.43 | 351.9 | .035 |
| 20 | 11.72 | 32.289 | 6.34 | 20 | 11.72 | 32.30 | 6.34 | | 24.58 | 338.3 | .070 |
| 30 | 11.28 | 32.326 | 6.35 | 30 | 11.28 | 32.33 | 6.35 | | 24.68 | 328.9 | .103 |
| 50 | 9.28 | 32.908 | 5.45 | 50 | 9.28 | 32.91 | 5.45 | | 25.47 | 253.8 | .161 |
| 76 | 8.08 | 33.344 | 4.35 | 75 | 8.10 | 33.33 | 4.39 | | 25.98 | 205.7 | .219 |
| 102 | 8.49 | 33.505 | 3.74 | 100 | 8.44 | 33.66 | 3.78 | | 26.18 | 186.4 | .268 |
| 147 | 7.60 | 33.983 | 2.44 | 150 | 7.57 | 33.99 | 2.41 | | 26.57 | 150.5 | .352 |
| 202 | 7.29 | 34.014 | 2.21 | 200 | 7.29 | 34.01 | 2.22 | | 26.63 | 145.7 | .426 |
| 304 | 6.58 | 34.050 | 1.72 | 250 | 6.95 | 34.03 | 1.98 | | 26.69 | 140.4 | .498 |
| 403 | 6.08 | 34.091 | 1.28 | 300 | 6.61 | 34.05 | 1.74 | | 26.75 | 135.3 | .566 |
| 503 | 5.25 | 34.122 | .80 | 400 | 6.10 | 34.08 | 1.29 | | 26.84 | 127.9 | .698 |
| 605 | 4.75 | 34.217 | .41 | 500 | 5.27 | 34.12 | .81 | | 26.97 | 115.2 | .819 |
| 807 | 4.17 | 34.341 | .25 | 600 | 4.77 | 34.21 | .43 | | 27.10 | 103.8 | .929 |
| 1006 | 3.70 | 34.419 | .30 | 700 | 4.44 | 34.28 | .27 | | 27.20 | 95.2 | 1.028 |
| | | | | 800 | 4.18 | 34.34 | .26 | | 27.27 | 89.0 | 1.120 |
| | | | | 1000 | 3.71 | 34.42 | .30 | | 27.38 | 79.3 | 1.289 |

CH 35 43 20.5 N 125 10.5 W DATE 09 NOV 64 0901 GCT WIRE 14 DRY 53.0 WET 47.0
WIND DIRECTION 00 VEL 20 KTS BAR 07 SWELL DIRECTION 00 H 4 T 8 CLOUD AMT WEATHER

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 12.32 | 32.237 | 6.13 | 0 | 12.32 | 32.24 | 6.13 | | 24.42 | 353.2 | 0 |
| 10 | 12.30 | 32.239 | 6.16 | 10 | 12.30 | 32.23 | 6.16 | | 24.41 | 353.6 | .035 |
| 20 | 12.28 | 32.261 | 6.22 | 20 | 12.28 | 32.25 | 6.22 | | 24.43 | 352.5 | .071 |
| 30 | 11.71 | 32.405 | 5.98 | 30 | 11.71 | 32.41 | 5.98 | | 24.66 | 330.5 | .105 |
| 50 | 9.28 | 33.065 | 4.84 | 50 | 9.28 | 33.07 | 4.84 | | 25.59 | 242.2 | .162 |
| 74 | 8.20 | 33.583 | 3.67 | 75 | 8.18 | 33.60 | 3.64 | | 26.17 | 187.3 | .216 |
| 97 | 7.96 | 33.775 | 3.15 | 100 | 7.92 | 33.79 | 3.12 | | 26.36 | 169.4 | .260 |
| 145 | 7.51 | 33.925 | 2.85 | 150 | 7.45 | 33.93 | 2.80 | | 26.54 | 153.0 | .341 |
| 196 | 6.91 | 33.974 | 2.30 | 200 | 6.88 | 33.98 | 2.27 | | 26.66 | 142.8 | .415 |
| 292 | 6.32 | 34.035 | 1.68 | 250 | 6.54 | 34.01 | 1.92 | | 26.73 | 136.5 | .485 |
| 390 | 5.71 | 34.106 | 1.00 | 300 | 6.27 | 34.04 | 1.62 | | 26.79 | 131.4 | .552 |
| 488 | 5.25 | 34.133 | .73 | 400 | 5.66 | 34.11 | .96 | | 26.92 | 120.2 | .677 |
| 589 | 4.73 | 34.226 | .38 | 500 | 5.18 | 34.14 | .69 | | 27.00 | 112.5 | .794 |
| 790 | 4.25 | 34.325 | .23 | 600 | 4.70 | 34.21 | .36 | | 27.11 | 102.9 | .901 |
| 989 | 3.66 | 34.419 | .31 | 700 | 4.43 | 34.28 | .24 | | 27.19 | 95.7 | 1.001 |
| | | | | 800 | 4.22 | 34.33 | .23 | | 27.26 | 90.0 | 1.093 |
| | | | | 1000 | 3.63 | 34.42 | .31 | | 27.39 | 77.8 | 1.261 |

| | OBSERVED | | | | INTERPOLATED | | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^8$ | Δ D |
| CH 25 | 43 20.5 N | 124 56.7 W | DATE 09 NOV 64 1134 GCT | | | WIRE 13 | DRY 53.5 | WET 49.0 | | | | |
| WIND DIRECTION 00 VEL 18 KTS | | | BAR 06 SWELL DIRECTION 00 H 3 T 8 CLOUD | | | | | AMT | WEATHER | | | |
| 0 | 11.20 | 32.506 | 6.16 | | 0 | 11.20 | 32.51 | 6.17 | | 24.83 | 313.7 | 0 |
| 10 | 11.18 | 32.504 | 6.14 | | 10 | 11.18 | 32.51 | 6.15 | | 24.83 | 313.7 | .031 |
| 20 | 11.18 | 32.507 | 6.25 | | 20 | 11.18 | 32.51 | 6.26 | | 24.83 | 313.7 | .063 |
| 30 | 11.17 | 32.516 | 6.22 | | 30 | 11.17 | 32.52 | 6.22 | | 24.84 | 313.0 | .094 |
| 50 | 9.12 | 32.977 | 5.12 | | 50 | 9.13 | 32.98 | 5.13 | | 25.55 | 246.3 | .150 |
| 72 | 8.63 | 33.484 | 4.09 | | 75 | 8.57 | 33.52 | 3.99 | | 26.06 | 198.2 | .206 |
| 97 | 8.18 | 33.721 | 3.40 | | 100 | 8.14 | 33.74 | 3.34 | | 26.29 | 176.3 | .252 |
| 150 | 7.61 | 33.915 | 2.71 | | 150 | 7.61 | 33.92 | 2.72 | | 26.51 | 156.3 | .335 |
| 193 | 7.44 | 33.982 | 2.37 | | 200 | 7.38 | 33.99 | 2.35 | | 26.60 | 148.5 | .412 |
| 242 | 6.96 | 33.982 | 2.23 | | 250 | 6.87 | 34.00 | 2.17 | | 26.67 | 141.9 | .484 |
| 289 | 6.45 | 34.022 | 1.86 | | 300 | 6.37 | 34.03 | 1.78 | | 26.76 | 133.9 | .553 |
| 391 | 5.88 | 34.066 | 1.22 | | 400 | 5.83 | 34.07 | 1.17 | | 26.87 | 125.1 | .683 |
| 585 | 4.76 | 34.245 | .36 | | 500 | 5.26 | 34.15 | .68 | | 27.00 | 112.6 | .801 |
| | | | | | 600 | 4.67 | 34.26 | .29 | | 27.15 | 99.2 | .907 |
| CH 15 | 43 20.5 N | 124 43.1 W | DATE 09 NOV 64 1335 GCT | | | WIRE 3 | DRY 51.5 | WET 47.0 | | | | |
| WIND DIRECTION 00 VEL 12 KTS | | | BAR 05 SWELL DIRECTION 00 H 3 T 8 CLOUD | | | | | AMT | WEATHER | | | |
| 0 | 10.98 | 32.834 | 6.10 | | 0 | 10.98 | 32.84 | 6.10 | | 25.12 | 285.8 | 0 |
| 10 | 10.98 | 32.833 | 6.12 | | 10 | 10.98 | 32.84 | 6.13 | | 25.12 | 286.0 | .029 |
| 20 | 10.39 | 32.910 | 5.94 | | 20 | 10.39 | 32.92 | 5.94 | | 25.29 | 270.7 | .056 |
| 30 | 9.35 | 33.059 | 5.28 | | 30 | 9.35 | 33.06 | 5.29 | | 25.57 | 243.4 | .082 |
| 50 | 9.06 | 33.225 | 4.91 | | 50 | 9.06 | 33.23 | 4.91 | | 25.75 | 227.0 | .129 |
| 75 | 8.96 | 33.320 | 4.66 | | 75 | 8.96 | 33.33 | 4.66 | | 25.84 | 218.8 | .185 |
| 100 | 8.59 | 33.710 | 3.49 | | 100 | 8.59 | 33.71 | 3.49 | | 26.20 | 184.8 | .235 |
| 150 | 8.23 | 33.916 | 2.32 | | 150 | 8.23 | 33.92 | 2.33 | | 26.42 | 165.1 | .323 |
| 200 | 8.00 | 33.950 | 2.34 | | 200 | 8.00 | 33.95 | 2.34 | | 26.48 | 160.3 | .404 |
| CH 5 | 43 20.5 N | 124 29.0 W | DATE 09 NOV 64 1512 GCT | | | WIRE 6 | DRY 52.0 | WET 46.5 | | | | |
| WIND DIRECTION 00 VEL 10 KTS | | | BAR 05 SWELL DIRECTION 29 H 3 T 10 CLOUD 9 AMT 10 WEATHER 03 | | | | | | | | | |
| 0 | 11.19 | 32.621 | 6.13 | | 0 | 11.19 | 32.63 | 6.14 | | 24.92 | 305.1 | 0 |
| 10 | 10.92 | 32.683 | 6.09 | | 10 | 10.92 | 32.69 | 6.09 | | 25.02 | 296.1 | .030 |
| 20 | 10.40 | 32.987 | 5.72 | | 20 | 10.40 | 32.99 | 5.72 | | 25.34 | 265.2 | .058 |
| 30 | 9.89 | 33.230 | 5.00 | | 30 | 9.89 | 33.24 | 5.01 | | 25.62 | 239.2 | .083 |
| 40 | 9.84 | 33.277 | 4.86 | | 50 | 9.46 | 33.41 | 4.48 | | 25.83 | 219.8 | .129 |
| 50 | 9.46 | 33.405 | 4.48 | | 75 | 9.03 | 33.59 | 3.72 | | 26.04 | 200.2 | .182 |
| 60 | 9.34 | 33.459 | 4.24 | | 100 | 8.59 | 33.71 | | | 26.20 | 184.8 | .230 |
| 75 | 9.03 | 33.586 | 3.71 | | 150 | 8.23 | 33.92 | | | 26.42 | 165.1 | .317 |
| AH 25 | 46 14.4 N | 124 41.7 W | DATE 13 NOV 64 1018 GCT | | | WIRE 12 | DRY 48.0 | WET 44.5 | | | | |
| WIND DIRECTION | VEL | KTS | BAR | SWELL DIRECTION | H | T | CLOUD | AMT | WEATHER | | | |
| 0 | 11.26 | 32.021 | 6.18 | | 0 | 11.26 | 32.03 | 6.19 | | 24.44 | 350.6 | 0 |
| 10 | 11.26 | 31.981 | 6.21 | | 10 | 11.26 | 32.00 | 6.21 | | 24.42 | 352.9 | .035 |
| 20 | 11.25 | 31.987 | 6.24 | | 20 | 11.25 | 32.00 | 6.24 | | 24.43 | 352.5 | .070 |
| 30 | 10.00 | 32.259 | 6.22 | | 30 | 10.00 | 32.26 | 6.22 | | 24.84 | 312.8 | .104 |
| 50 | 8.06 | 32.577 | 5.81 | | 50 | 8.06 | 32.58 | 5.82 | | 25.39 | 260.6 | .161 |
| 76 | 7.83 | 33.136 | 4.40 | | 75 | 7.84 | 33.11 | 4.46 | | 25.84 | 218.1 | .221 |
| 104 | 7.64 | 33.530 | 3.83 | | 100 | 7.66 | 33.48 | 3.89 | | 26.16 | 188.6 | .272 |
| 153 | 7.65 | 33.933 | 2.44 | | 150 | 7.65 | 33.92 | 2.51 | | 26.50 | 156.8 | .358 |
| 208 | 7.43 | 33.965 | 2.33 | | 200 | 7.48 | 33.95 | 2.35 | | 26.55 | 152.8 | .435 |
| AH 35 | 46 14.4 N | 124 56.3 W | DATE 13 NOV 64 1329 GCT | | | WIRE 8 | DRY 47.1 | WET 41.1 | | | | |
| WIND DIRECTION 32 VEL 8 KTS | | | BAR | SWELL DIRECTION 28 H 8 T 6 CLOUD 8 AMT 4 WEATHER 18 | | | | | | | | |
| 0 | 11.13 | 32.040 | 6.21 | | 0 | 11.13 | 32.04 | 6.21 | | 24.48 | 347.0 | 0 |
| 10 | 11.13 | 32.041 | 6.23 | | 10 | 11.13 | 32.05 | 6.23 | | 24.48 | 347.1 | .035 |
| 20 | 11.12 | 32.039 | 6.25 | | 20 | 11.13 | 32.04 | 6.26 | | 24.48 | 347.2 | .069 |
| 30 | 10.78 | 32.097 | 6.21 | | 30 | 10.78 | 32.10 | 6.21 | | 24.59 | 337.4 | .104 |
| 50 | 8.16 | 32.539 | 5.91 | | 50 | 8.16 | 32.54 | 5.92 | | 25.35 | 264.8 | .164 |
| 76 | 7.80 | 33.060 | 4.66 | | 75 | 7.81 | 33.03 | 4.72 | | 25.78 | 224.0 | .225 |
| 104 | 7.70 | 33.570 | 3.53 | | 100 | 7.71 | 33.50 | 3.67 | | 26.17 | 187.7 | .276 |
| 153 | 7.37 | 33.897 | 2.87 | | 150 | 7.39 | 33.89 | 2.89 | | 26.52 | 155.3 | .362 |
| 206 | 7.09 | 33.983 | 2.11 | | 200 | 7.12 | 33.97 | 2.20 | | 26.62 | 146.2 | .437 |

| OBSERVED | | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| AH 45 46 14.4 N 125 10.5 W DATE 13 NOV 64 1635 GCT WIRE 2 DRY 48.5 WET 44.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 10 KTS BAR 16 SWELL DIRECTION 04 H 10 T CLOUD 8 AMT 6 WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.57 | 31.957 | 6.00 | | 0 | 11.57 | 31.96 | 6.01 | | 24.34 | 360.6 | 0 |
| 10 | 11.58 | 31.958 | 6.05 | | 10 | 11.58 | 31.96 | 6.06 | | 24.34 | 360.9 | .036 |
| 20 | 11.59 | 31.957 | 6.03 | | 20 | 11.59 | 31.96 | 6.04 | | 24.33 | 361.3 | .072 |
| 30 | 11.58 | 31.957 | 6.03 | | 30 | 11.58 | 31.96 | 6.04 | | 24.34 | 361.3 | .108 |
| 50 | 7.91 | 32.602 | 5.48 | | 50 | 7.92 | 32.70 | 5.48 | | 25.51 | 249.9 | .169 |
| 77 | 7.79 | 33.261 | 4.05 | | 75 | 7.80 | 33.23 | 4.15 | | 25.94 | 208.9 | .227 |
| 101 | 7.64 | 33.529 | 3.66 | | 100 | 7.65 | 33.52 | 3.67 | | 26.19 | 185.6 | .276 |
| 155 | 7.32 | 33.875 | 3.07 | | 150 | 7.35 | 33.86 | 3.11 | | 26.50 | 157.4 | .362 |
| 205 | 6.96 | 33.956 | 2.61 | | 200 | 7.00 | 33.95 | 2.66 | | 26.62 | 146.1 | .438 |
| 305 | 6.36 | 34.036 | 1.56 | | 250 | 6.67 | 34.00 | 2.11 | | 26.70 | 138.9 | .509 |
| 408 | 5.89 | 34.076 | 1.19 | | 300 | 6.39 | 34.03 | 1.61 | | 26.77 | 133.5 | .577 |
| 508 | 5.42 | 34.122 | .88 | | 400 | 5.92 | 34.07 | 1.20 | | 26.86 | 126.2 | .707 |
| 609 | 4.98 | 34.173 | .51 | | 500 | 5.46 | 34.12 | .90 | | 26.95 | 117.6 | .829 |
| 812 | 4.04 | 34.271 | .30 | | 600 | 5.02 | 34.17 | .54 | | 27.04 | 110.1 | .942 |
| 1016 | 3.38 | 34.332 | .35 | | 700 | 4.55 | 34.22 | .36 | | 27.13 | 101.3 | 1.048 |
| | | | | | 800 | 4.09 | 34.27 | .31 | | 27.22 | 93.2 | 1.145 |
| | | | | | 1000 | 3.42 | 34.33 | .34 | | 27.34 | 82.5 | 1.321 |
| AH 65 46 15.2 N 125 35.0 W DATE 13 NOV 64 2017 GCT WIRE 0 DRY 50.0 WET 42.8 | | | | | | | | | | | | |
| WIND DIRECTION 12 VEL 8 KTS BAR SWELL DIRECTION 30 H 10 T 10 CLOUD 8 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.24 | 31.931 | 6.22 | | 0 | 11.24 | 31.94 | 6.22 | | 24.38 | 356.9 | 0 |
| 10 | 11.20 | 31.932 | 6.08 | | 10 | 11.20 | 31.94 | 6.08 | | 24.38 | 356.3 | .036 |
| 20 | 11.20 | 31.934 | 6.08 | | 20 | 11.20 | 31.94 | 6.08 | | 24.39 | 356.3 | .071 |
| 30 | 10.76 | 31.989 | 5.92 | | 30 | 10.76 | 31.99 | 5.93 | | 24.51 | 345.1 | .106 |
| 51 | 7.86 | 33.219 | 3.69 | | 50 | 8.00 | 33.15 | 3.81 | | 25.85 | 217.3 | .163 |
| 77 | 7.66 | 33.529 | 3.33 | | 75 | 7.68 | 33.62 | 3.36 | | 26.27 | 178.1 | .212 |
| 103 | 7.51 | 33.824 | 3.11 | | 100 | 7.53 | 33.81 | 3.13 | | 26.43 | 162.6 | .255 |
| 155 | 7.13 | 33.946 | 2.31 | | 150 | 7.17 | 33.96 | 2.39 | | 26.60 | 147.1 | .332 |
| 205 | 6.76 | 34.015 | 1.87 | | 200 | 6.80 | 34.01 | 1.90 | | 26.70 | 139.0 | .403 |
| 306 | 6.06 | 34.058 | 1.43 | | 250 | 6.43 | 34.04 | 1.64 | | 26.76 | 133.1 | .471 |
| 408 | 5.56 | 34.117 | .90 | | 300 | 6.10 | 34.06 | 1.45 | | 26.82 | 128.2 | .537 |
| 508 | 5.00 | 34.158 | .54 | | 400 | 5.60 | 34.11 | .94 | | 26.93 | 119.2 | .660 |
| 609 | 4.65 | 34.215 | .43 | | 500 | 5.04 | 34.15 | .56 | | 27.03 | 109.8 | .775 |
| 811 | 3.98 | 34.338 | .23 | | 600 | 4.68 | 34.21 | .43 | | 27.11 | 102.9 | .881 |
| 1016 | 3.55 | 34.405 | .27 | | 700 | 4.33 | 34.27 | .32 | | 27.20 | 94.8 | .980 |
| | | | | | 800 | 4.01 | 34.33 | .24 | | 27.28 | 87.4 | 1.071 |
| | | | | | 1000 | 3.57 | 34.40 | .26 | | 27.38 | 78.8 | 1.237 |
| AH 85 46 14.4 N 126 8.8 W DATE 14 NOV 64 0043 GCT WIRE 12 DRY 54.8 WET 44.1 | | | | | | | | | | | | |
| WIND DIRECTION 32 VEL 12 KTS BAR SWELL DIRECTION 29 H 10 T 8 CLOUD 8 AMT 4 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.95 | 32.092 | 6.20 | | 0 | 11.96 | 32.10 | 6.20 | | 24.37 | 357.4 | 0 |
| 10 | 11.98 | 32.089 | 6.05 | | 10 | 11.98 | 32.09 | 6.06 | | 24.36 | 358.2 | .036 |
| 20 | 11.94 | 32.117 | 6.12 | | 20 | 11.94 | 32.12 | 6.13 | | 24.39 | 355.6 | .071 |
| 30 | 11.90 | 32.132 | 6.25 | | 30 | 11.90 | 32.14 | 6.26 | | 24.41 | 354.0 | .107 |
| 50 | 8.31 | 32.505 | 6.03 | | 50 | 8.31 | 32.51 | 6.04 | | 25.30 | 269.5 | .169 |
| 75 | 7.84 | 32.863 | 5.03 | | 75 | 7.84 | 32.87 | 5.04 | | 25.65 | 236.6 | .233 |
| 100 | 7.70 | 33.562 | 3.83 | | 100 | 7.70 | 33.56 | 3.84 | | 26.21 | 183.8 | .285 |
| 149 | 7.45 | 33.865 | 2.79 | | 150 | 7.44 | 33.87 | 2.78 | | 26.49 | 157.7 | .370 |
| 201 | 6.99 | 33.969 | 2.69 | | 200 | 7.00 | 33.97 | 2.69 | | 26.63 | 145.0 | .446 |
| 298 | 6.18 | 34.071 | 1.66 | | 250 | 6.56 | 34.01 | 2.20 | | 26.73 | 136.7 | .516 |
| 394 | 5.72 | 34.096 | 1.13 | | 300 | 6.17 | 34.03 | 1.63 | | 26.79 | 130.9 | .583 |
| 490 | 5.10 | 34.125 | .72 | | 400 | 5.68 | 34.09 | 1.10 | | 26.90 | 122.0 | .710 |
| 586 | 4.75 | 34.104 | .47 | | 500 | 5.06 | 34.13 | .69 | | 27.01 | 111.7 | .826 |
| 781 | 4.18 | 34.321 | .24 | | 600 | 4.70 | 34.19 | .44 | | 27.10 | 104.4 | .935 |
| | | | | | 700 | 4.39 | 34.26 | .29 | | 27.18 | 96.4 | 1.035 |
| | | | | | 800 | 4.12 | 34.33 | .22 | | 27.27 | 88.5 | 1.127 |
| AH 105 46 24.5 N 126 38.0 W DATE 14 NOV 64 0430 GCT WIRE 9 DRY 54.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 0 KTS BAR SWELL DIRECTION 29 H 10 T CLOUD 8 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.80 | 32.149 | 6.11 | | 0 | 11.80 | 32.15 | 6.11 | | 24.44 | 350.4 | 0 |
| 10 | 11.80 | 32.151 | 6.16 | | 10 | 11.80 | 32.16 | 6.17 | | 24.45 | 350.5 | .035 |
| 20 | 11.79 | 32.154 | 6.18 | | 20 | 11.79 | 32.16 | 6.19 | | 24.45 | 350.2 | .070 |
| 30 | 11.79 | 32.155 | 6.19 | | 30 | 11.79 | 32.16 | 6.19 | | 24.45 | 350.4 | .105 |
| 51 | 7.90 | 32.585 | 5.01 | | 50 | 8.11 | 32.84 | 5.09 | | 25.59 | 241.9 | .164 |
| 77 | 7.79 | 33.594 | 3.33 | | 75 | 7.80 | 33.55 | 3.49 | | 26.19 | 185.1 | .218 |
| 100 | 7.65 | 33.824 | 2.79 | | 100 | 7.66 | 33.83 | 2.79 | | 26.43 | 162.9 | .261 |
| 154 | 7.22 | 33.966 | 2.10 | | 150 | 7.25 | 33.96 | 2.13 | | 26.59 | 148.6 | .339 |
| 203 | 7.02 | 33.994 | 1.81 | | 200 | 7.03 | 33.99 | 1.82 | | 26.65 | 143.5 | .412 |
| 304 | 6.54 | 34.043 | 1.57 | | 250 | 6.81 | 34.01 | 1.69 | | 26.69 | 139.8 | .483 |
| 405 | 5.95 | 34.123 | 1.03 | | 300 | 6.56 | 34.04 | 1.58 | | 26.75 | 135.5 | .552 |
| 504 | 5.55 | 34.130 | .82 | | 400 | 5.98 | 34.12 | 1.06 | | 26.89 | 123.5 | .681 |
| 607 | 5.12 | 34.160 | .50 | | 500 | 5.56 | 34.13 | .83 | | 26.95 | 118.1 | .802 |
| 811 | 4.31 | 34.305 | .35 | | 600 | 5.15 | 34.18 | .52 | | 27.03 | 111.1 | .916 |
| 1014 | 3.63 | 34.413 | .33 | | 700 | 4.74 | 34.24 | .38 | | 27.13 | 102.4 | 1.023 |
| | | | | | 800 | 4.35 | 34.30 | .36 | | 27.22 | 93.8 | 1.121 |
| | | | | | 1000 | 3.67 | 34.41 | .33 | | 27.37 | 79.7 | 1.295 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^6$ | Δ D |
| AH 125 44 14.4 N 127 7.0 W DATE 14 NOV 64 0927 GCT WIRE 0 DRY 52.5 WET 42.9 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 0 KTS BAR SWELL DIRECTION 29 H 2 T 4 CLOUD 8 AMT 2 WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.12 | 32.173 | 6.10 | | 0 | 12.13 | 32.18 | 6.10 | | 24.40 | 354.3 | 0 |
| 10 | 12.13 | 32.174 | 6.12 | | 10 | 12.13 | 32.18 | 6.13 | | 24.40 | 354.6 | .035 |
| 20 | 12.12 | 32.179 | 6.15 | | 20 | 12.13 | 32.18 | 6.16 | | 24.41 | 354.2 | .071 |
| 30 | 12.16 | 32.197 | 6.13 | | 30 | 12.16 | 32.20 | 6.14 | | 24.41 | 353.8 | .106 |
| 51 | 8.38 | 32.484 | 6.10 | | 50 | 8.59 | 32.47 | 6.11 | | 25.23 | 276.6 | .169 |
| 77 | 7.75 | 32.828 | 5.18 | | 75 | 7.80 | 32.80 | 5.27 | | 25.60 | 241.1 | .234 |
| 103 | 7.45 | 33.359 | 4.36 | | 100 | 7.47 | 33.30 | 4.45 | | 26.04 | 199.9 | .289 |
| 155 | 7.05 | 33.835 | 3.33 | | 150 | 7.08 | 33.81 | 3.41 | | 26.50 | 156.8 | .378 |
| 205 | 6.80 | 33.954 | 2.54 | | 200 | 6.83 | 33.95 | 2.63 | | 26.64 | 144.0 | .453 |
| 307 | 5.78 | 34.009 | 1.63 | | 250 | 6.36 | 33.99 | 2.08 | | 26.74 | 135.5 | .523 |
| 410 | 5.33 | 34.076 | .94 | | 300 | 5.85 | 34.01 | 1.68 | | 26.81 | 128.9 | .589 |
| 510 | 4.85 | 34.143 | .56 | | 400 | 5.36 | 34.07 | .99 | | 26.92 | 119.5 | .713 |
| 612 | 4.55 | 34.224 | .31 | | 500 | 4.89 | 34.14 | .59 | | 27.03 | 109.4 | .828 |
| 815 | 3.97 | 34.339 | .20 | | 600 | 4.58 | 34.21 | .33 | | 27.13 | 101.4 | .933 |
| 1020 | 3.48 | 34.421 | .27 | | 700 | 4.29 | 34.28 | .22 | | 27.21 | 93.8 | 1.031 |
| | | | | | 800 | 4.01 | 34.33 | .21 | | 27.28 | 87.4 | 1.121 |
| | | | | | 1000 | 3.52 | 34.41 | .26 | | 27.40 | 77.3 | 1.286 |
| AH 145 46 14.4 N 127 35.8 W DATE 14 NOV 64 1337 GCT WIRE 3 DRY 55.0 WET 45.0 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 8 KTS BAR SWELL DIRECTION 29 H 4 T 6 CLOUD 6 AMT 3 WEATHER 03 | | | | | | | | | | | | |
| 0 | 12.03 | 32.156 | 6.06 | | 0 | 12.03 | 32.16 | 6.07 | | 24.41 | 354.0 | 0 |
| 10 | 12.06 | 32.149 | 6.11 | | 10 | 12.06 | 32.15 | 6.11 | | 24.40 | 355.2 | .035 |
| 20 | 12.04 | 32.155 | 6.15 | | 20 | 12.04 | 32.16 | 6.16 | | 24.40 | 354.6 | .071 |
| 30 | 12.05 | 32.150 | 6.15 | | 30 | 12.05 | 32.15 | 6.16 | | 24.40 | 355.3 | .106 |
| 50 | 8.90 | 32.428 | 5.80 | | 50 | 8.90 | 32.43 | 5.81 | | 25.15 | 283.7 | .170 |
| 77 | 7.80 | 32.979 | 4.52 | | 75 | 7.88 | 32.94 | 4.63 | | 25.70 | 232.1 | .235 |
| 103 | 7.84 | 33.490 | 3.36 | | 100 | 7.81 | 33.44 | 3.49 | | 26.10 | 194.2 | .288 |
| 155 | 7.29 | 33.924 | 1.63 | | 150 | 7.36 | 33.91 | 1.74 | | 26.53 | 153.8 | .375 |
| 205 | 6.62 | 34.012 | 1.63 | | 200 | 6.69 | 34.01 | 1.63 | | 26.71 | 137.7 | .448 |
| 306 | 5.73 | 34.061 | 1.21 | | 250 | 6.16 | 34.04 | 1.48 | | 26.80 | 129.2 | .515 |
| 409 | 5.19 | 34.119 | .78 | | 300 | 5.77 | 34.06 | 1.24 | | 26.87 | 123.7 | .578 |
| 509 | 4.75 | 34.173 | .70 | | 400 | 5.23 | 34.11 | .81 | | 26.97 | 114.6 | .697 |
| 611 | 4.45 | 34.253 | .38 | | 500 | 4.78 | 34.17 | .71 | | 27.07 | 105.8 | .807 |
| 813 | 3.95 | 34.347 | .35 | | 600 | 4.48 | 34.24 | .42 | | 27.16 | 98.0 | .909 |
| 1018 | 3.43 | 34.435 | .30 | | 700 | 4.22 | 34.30 | .37 | | 27.23 | 91.5 | 1.004 |
| | | | | | 800 | 3.98 | 34.34 | .35 | | 27.29 | 86.3 | 1.092 |
| | | | | | 1000 | 3.48 | 34.43 | .38 | | 27.41 | 75.8 | 1.254 |
| NH-45 44 39.1 N 125 6.9 W DATE 15 NOV 64 0363 GCT WIRE 2 DRY 48.5 WET 43.5 | | | | | | | | | | | | |
| WIND DIRECTION 07 VEL 17 KTS BAR SWELL DIRECTION 29 H 5 T 8 CLOUD AMT WEATHER 01 | | | | | | | | | | | | |
| 0 | 11.29 | 32.013 | 6.15 | | 0 | 11.29 | 32.02 | 6.16 | | 24.43 | 351.7 | 0 |
| 10 | 11.29 | 32.013 | 6.27 | | 10 | 11.29 | 32.02 | 6.28 | | 24.43 | 351.8 | .035 |
| 20 | 11.30 | 32.008 | 6.29 | | 20 | 11.30 | 32.01 | 6.30 | | 24.43 | 352.6 | .070 |
| 30 | 10.69 | 32.188 | 5.54 | | 30 | 10.69 | 32.19 | 5.55 | | 24.67 | 329.2 | .104 |
| 50 | 7.89 | 32.924 | 5.00 | | 50 | 7.90 | 32.93 | 5.01 | | 25.69 | 232.3 | .161 |
| 77 | 7.82 | 33.376 | 3.94 | | 75 | 7.83 | 33.36 | 4.02 | | 26.04 | 200.0 | .215 |
| 104 | 7.68 | 33.698 | 3.26 | | 100 | 7.71 | 33.66 | 3.35 | | 26.29 | 176.2 | .262 |
| 153 | 7.23 | 33.877 | 3.17 | | 150 | 7.26 | 33.87 | 3.18 | | 26.52 | 154.7 | .344 |
| 203 | 6.99 | 33.963 | 2.33 | | 200 | 7.00 | 33.96 | 2.39 | | 26.63 | 145.7 | .419 |
| 300 | 6.02 | 34.012 | 1.74 | | 250 | 6.54 | 34.00 | 1.96 | | 26.72 | 137.6 | .490 |
| 398 | 5.45 | 34.068 | 1.09 | | 300 | 6.03 | 34.02 | 1.74 | | 26.80 | 130.2 | .557 |
| 498 | 5.01 | 34.126 | .72 | | 400 | 5.44 | 34.07 | 1.08 | | 26.91 | 120.5 | .682 |
| | | | | | 500 | 5.00 | 34.13 | .71 | | 27.01 | 111.3 | .798 |
| NH-35 44 39.0 N 124 52.7 W DATE 15 NOV 64 0557 GCT WIRE 6 DRY 50.0 WET 43.5 | | | | | | | | | | | | |
| WIND DIRECTION 07 VEL 20 KTS BAR SWELL DIRECTION 29 H T 8 CLOUD AMT WEATHER 02 | | | | | | | | | | | | |
| 0 | 12.18 | 32.128 | 6.15 | | 0 | 12.18 | 32.13 | 6.16 | | 24.36 | 358.7 | 0 |
| 10 | 12.16 | 32.126 | 6.11 | | 10 | 12.16 | 32.13 | 6.11 | | 24.36 | 358.7 | .036 |
| 20 | 12.15 | 32.128 | 6.17 | | 20 | 12.15 | 32.13 | 6.18 | | 24.36 | 358.5 | .072 |
| 30 | 12.16 | 32.131 | 6.19 | | 30 | 12.16 | 32.14 | 6.19 | | 24.36 | 358.7 | .108 |
| 50 | 8.88 | 32.703 | 5.42 | | 50 | 8.88 | 32.71 | 5.43 | | 25.37 | 263.0 | .170 |
| 72 | 8.29 | 33.271 | 4.49 | | 75 | 8.30 | 33.33 | 4.38 | | 25.95 | 208.5 | .229 |
| 102 | 8.58 | 33.741 | 3.58 | | 100 | 8.55 | 33.72 | 3.63 | | 26.21 | 183.8 | .278 |
| 151 | 7.96 | 33.917 | 2.73 | | 150 | 7.98 | 33.91 | 2.74 | | 26.45 | 161.9 | .364 |
| 199 | 7.52 | 33.982 | 2.41 | | 200 | 7.51 | 33.98 | 2.40 | | 26.57 | 150.9 | .442 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH-25 44 39.0 N 124 39.0 W DATE 15 NOV 64 0740 GCT WIRE 4 DRY 51.0 WET 43.5 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 10 KTS HAR SWELL DIRECTION 29 H T CLOUD AMT WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.72 | 32.226 | 6.26 | | 0 | 10.72 | 32.23 | 6.27 | | 24.70 | 326.4 | 0 |
| 10 | 10.77 | 32.258 | 6.21 | | 10 | 10.77 | 32.26 | 6.21 | | 24.71 | 325.0 | .033 |
| 20 | 10.75 | 32.285 | 6.19 | | 20 | 10.75 | 32.29 | 6.19 | | 24.74 | 322.8 | .065 |
| 30 | 10.81 | 32.332 | 6.19 | | 30 | 10.81 | 32.34 | 6.19 | | 24.76 | 320.5 | .097 |
| 50 | 8.42 | 32.978 | 4.82 | | 50 | 8.42 | 32.98 | 4.82 | | 25.66 | 235.9 | .153 |
| 75 | 8.39 | 33.573 | 3.73 | | 75 | 8.39 | 33.58 | 3.73 | | 26.13 | 191.6 | .206 |
| 104 | 8.44 | 33.747 | 3.11 | | 100 | 8.44 | 33.74 | 3.16 | | 26.25 | 180.4 | .253 |
| 153 | 8.17 | 33.841 | 2.90 | | 150 | 8.19 | 33.84 | 2.90 | | 26.36 | 170.5 | .340 |
| 201 | 7.79 | 33.916 | 2.50 | | 200 | 7.80 | 33.91 | 2.51 | | 26.48 | 160.1 | .423 |
| NH-15 44 39.0 N 124 25.0 W DATE 15 NOV 64 0901 GCT WIRE 4 DRY 47.5 WET 41.1 | | | | | | | | | | | | |
| WIND DIRECTION 08 VEL 5 KTS HAR 32 SWELL DIRECTION H T CLOUD 0 AMT 0 WEATHER 02 | | | | | | | | | | | | |
| 0 | 11.32 | 32.198 | 6.22 | | 0 | 11.32 | 32.20 | 6.22 | | 24.57 | 338.5 | 0 |
| 10 | 10.80 | 32.215 | 6.25 | | 10 | 10.80 | 32.22 | 6.26 | | 24.67 | 328.7 | .033 |
| 20 | 10.62 | 32.282 | 6.08 | | 20 | 10.63 | 32.30 | 6.08 | | 24.77 | 320.2 | .066 |
| 30 | 10.02 | 32.517 | 5.68 | | 30 | 10.02 | 32.52 | 5.69 | | 25.04 | 294.0 | .096 |
| 40 | 8.44 | 33.185 | 4.26 | | 50 | 8.60 | 33.43 | 4.18 | | 25.98 | 204.9 | .146 |
| 50 | 8.60 | 33.430 | 4.18 | | 75 | 8.56 | 33.49 | 4.03 | | 26.03 | 200.9 | .197 |
| 75 | 8.56 | 33.481 | 4.02 | | 100 | 8.44 | 33.74 | | | 26.25 | 180.4 | .245 |
| NH-5 44 39.0 N 124 10.6 W DATE 15 NOV 64 1023 GCT WIRE 4 DRY 44.1 WET 38.1 | | | | | | | | | | | | |
| WIND DIRECTION VEL KTS HAR SWELL DIRECTION H T CLOUD AMT WEATHER | | | | | | | | | | | | |
| 0 | 10.52 | 32.492 | 6.30 | | 0 | 10.52 | 32.49 | 6.31 | | 24.93 | 304.2 | 0 |
| 10 | 10.51 | 32.479 | 6.27 | | 10 | 10.51 | 32.48 | 6.28 | | 24.93 | 304.4 | .030 |
| 20 | 10.51 | 32.481 | 6.31 | | 20 | 10.51 | 32.49 | 6.32 | | 24.93 | 304.4 | .061 |
| 30 | 10.61 | 32.538 | 6.19 | | 30 | 10.61 | 32.54 | 6.19 | | 24.96 | 302.0 | .091 |
| 40 | 10.38 | 32.841 | 5.46 | | 50 | 9.97 | 32.90 | 5.48 | | 25.35 | 265.3 | .148 |
| 50 | 9.97 | 32.898 | 5.48 | | 75 | 8.56 | 33.49 | | | 26.03 | 200.9 | .206 |
| NH-25 44 39.1 N 124 38.4 W DATE 16 DEC 64 0550 GCT WIRE 17 DRY 41.0 WET 37.0 | | | | | | | | | | | | |
| WIND DIRECTION 34 VEL 25 KTS HAR 17 SWELL DIRECTION 33 H 10 T 8 CLOUD 5 AMT 6 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.35 | 32.295 | | | 0 | 10.35 | 32.30 | | | 24.81 | 315.2 | 0 |
| 9 | 10.46 | 32.298 | | | 10 | 10.46 | 32.30 | | | 24.79 | 317.2 | .032 |
| 44 | 10.47 | 32.303 | | | 20 | 10.46 | 32.30 | | | 24.79 | 317.4 | .063 |
| 59 | 10.18 | 32.638 | | | 30 | 10.47 | 32.30 | | | 24.80 | 317.5 | .095 |
| 70 | 9.35 | 33.049 | | | 50 | 10.42 | 32.41 | | | 24.89 | 309.1 | .158 |
| 84 | 8.71 | 33.192 | | | 75 | 9.08 | 33.12 | | | 25.66 | 235.8 | .226 |
| 105 | | 33.573 | | | 100 | 8.37 | 33.48 | | | 26.05 | 198.8 | .280 |
| 126 | 8.14 | 33.771 | | | 150 | 7.88 | 33.85 | | | 26.42 | 165.0 | .371 |
| 148 | 7.89 | 33.868 | | | 200 | 7.80 | 33.91 | | | 26.48 | 160.1 | .452 |
| 171 | 7.84 | 33.863 | | | 250 | 6.54 | 34.00 | | | 26.72 | 137.6 | .527 |
| NH45-5 44 17.8 N 125 5.0 W DATE 16 DEC 64 1030 GCT WIRE 05 DRY 42.0 WET 38.0 | | | | | | | | | | | | |
| WIND DIRECTION 35 VEL 25 KTS HAR 17 SWELL DIRECTION H T CLOUD 6 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 10.13 | 32.230 | | | 0 | 10.13 | 32.23 | | | 24.80 | 316.5 | 0 |
| 10 | 10.10 | 32.233 | | | 10 | 10.10 | 32.24 | | | 24.81 | 316.0 | .032 |
| 40 | 10.11 | 32.235 | | | 20 | 10.10 | 32.23 | | | 24.80 | 316.4 | .063 |
| 50 | 8.59 | 32.758 | | | 30 | 10.11 | 32.23 | | | 24.80 | 316.6 | .095 |
| 60 | 8.03 | 32.866 | | | 50 | 8.59 | 32.76 | | | 25.46 | 254.7 | .152 |
| 80 | 7.90 | 33.134 | | | 75 | 7.93 | 33.05 | | | 25.78 | 224.5 | .212 |
| 99 | 7.86 | 33.558 | | | 100 | 7.86 | 33.57 | | | 26.20 | 184.7 | .263 |
| 124 | 7.81 | 33.818 | | | 150 | 7.65 | 33.90 | | | 26.49 | 158.2 | .349 |
| 149 | 7.66 | 33.899 | | | 200 | 7.13 | 35.98 | | | 26.63 | 145.6 | .425 |
| 198 | 7.15 | 33.980 | | | | | | | | | | |
| NH-45 44 39.7 N 125 5.7 W DATE 16 DEC 64 1415 GCT WIRE 15 DRY 38.0 WET 33.0 | | | | | | | | | | | | |
| WIND DIRECTION 00 VEL 25 KTS HAR 19 SWELL DIRECTION 00 H 7 T 7 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 7.70 | 32.325 | | | 0 | 7.70 | 32.33 | | | 25.25 | 273.8 | 0 |
| 10 | 10.33 | 32.294 | | | 10 | 10.33 | 32.30 | | | 24.82 | 315.2 | .029 |
| 40 | 10.15 | 32.305 | | | 20 | 10.27 | 32.30 | | | 24.83 | 314.4 | .061 |
| 50 | 8.56 | 32.841 | | | 30 | 10.21 | 32.30 | | | 24.84 | 313.3 | .092 |
| 60 | 8.70 | 33.195 | | | 50 | 8.56 | 32.85 | | | 25.53 | 248.1 | .148 |
| 70 | 8.50 | 33.300 | | | 75 | 8.42 | 33.35 | | | 25.95 | 208.7 | .206 |
| 100 | 8.12 | 33.606 | | | 100 | 8.12 | 33.61 | | | 26.19 | 185.7 | .255 |
| 125 | 7.91 | 33.824 | | | 150 | 7.55 | 33.88 | | | 26.49 | 158.2 | .341 |
| 150 | 7.54 | 33.876 | | | 200 | 7.20 | 33.97 | | | 26.61 | 147.7 | .417 |
| 200 | 7.20 | 33.968 | | | 250 | 6.54 | 34.00 | | | 26.72 | 137.6 | .488 |

| | OBSERVED | | | | INTERPOLATED | | | | DERIVED | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | T°C | S‰ | $O_2$ ml/l | $PO_4^{\equiv}$ | Z | T | S | $O_2$ | $PO_4^{\equiv}$ | $\sigma_t$ | $\delta \times 10^5$ | Δ D |
| NH45-2 44 40.5 N 125 5.5 W DATE 18 DEC 64 1721 GCT WIRE 02 DRY 47.0 WET 41.0 | | | | | | | | | | | | |
| WIND DIRECTION 23 VEL 12 KTS BAR 03 SWELL DIRECTION 23 H 3 T 4 CLOUD 6 AMT 8 WEATHER 03 | | | | | | | | | | | | |
| 0 | 9.78 | 32.287 | | | 0 | 9.78 | 32.29 | | | 24.90 | 306.8 | 0 |
| 10 | 9.77 | 32.281 | | | 10 | 9.77 | 32.29 | | | 24.90 | 307.2 | .031 |
| 40 | 9.75 | 32.280 | | | 20 | 9.76 | 32.28 | | | 24.90 | 307.6 | .061 |
| 50 | 9.06 | 32.624 | | | 30 | 9.76 | 32.28 | | | 24.90 | 307.7 | .092 |
| 60 | 8.65 | 33.010 | | | 50 | 9.06 | 32.63 | | | 25.28 | 271.6 | .150 |
| 75 | 8.36 | 33.384 | | | 75 | 8.36 | 33.39 | | | 25.98 | 205.2 | .210 |
| 98 | 8.02 | 33.651 | | | 100 | 7.99 | 33.66 | | | 26.25 | 179.7 | .258 |
| 123 | 7.65 | 33.777 | | | 150 | 7.43 | 33.89 | | | 26.51 | 155.9 | .342 |
| 147 | 7.45 | 33.880 | | | 200 | 7.03 | 33.96 | | | 26.62 | 145.8 | .417 |
| 196 | 7.06 | 33.963 | | | 250 | 6.54 | 34.00 | | | 26.72 | 137.6 | .488 |
| NH-25B 44 39.1 N 124 38.4 W DATE 18 DEC 64 2255 GCT WIRE 10 DRY 48.0 WET 43.0 | | | | | | | | | | | | |
| WIND DIRECTION 21 VEL 28 KTS BAR 00 SWELL DIRECTION 21 H 6 T 8 CLOUD 6 AMT 8 WEATHER 02 | | | | | | | | | | | | |
| 0 | 10.26 | 32.456 | | | 0 | 10.26 | 32.46 | | | 24.95 | 301.9 | 0 |
| 10 | 10.26 | 32.444 | | | 10 | 10.26 | 32.45 | | | 24.94 | 302.9 | .030 |
| 30 | 10.27 | 32.448 | | | 20 | 10.26 | 32.45 | | | 24.94 | 303.3 | .061 |
| 60 | 10.35 | 32.575 | | | 30 | 10.27 | 32.45 | | | 24.95 | 303.1 | .091 |
| 80 | 9.85 | 32.998 | | | 50 | 10.32 | 32.49 | | | 24.97 | 301.4 | .151 |
| 90 | 8.66 | 33.146 | | | 75 | 10.11 | 32.89 | | | 25.31 | 269.1 | .223 |
| 100 | 8.36 | 33.307 | | | 100 | 8.36 | 33.31 | | | 25.92 | 211.3 | .283 |
| 125 | 8.11 | 33.758 | | | 150 | 7.82 | 33.89 | | | 26.46 | 160.9 | .376 |
| 150 | 7.81 | 33.890 | | | 200 | 7.24 | 33.13 | | | 25.94 | 210.7 | .469 |
| 200 | 7.24 | 33.128 | | | 250 | 6.54 | 34.00 | | | 26.72 | 137.6 | .556 |

TABLE III. Supplementary Observations of Surface Temperature and Salinity.

| Date 1962 | Time GMT | Latitude | Longitude | Temp °C | Sal. °/₀₀ |
|---|---|---|---|---|---|
| Jan 9 | 1120 | 44°39.1' | 125°21.0' | 10.0 | 32.45 |
| Jan 9 | 1600 | 44°39.2' | 125°49.2' | 9.9 | 32.43 |
| Jan 9 | 2010 | 44°39.1' | 126°17.4' | 10.0 | 32.44 |
| Jan 10 | 0018 | 44°39.1' | 126°44.9' | 9.6 | 32.42 |
| Jan 10 | 0444 | 44°39.1' | 127°12.3' | 9.7 | 32.47 |
| Jan 10 | 0812 | 44°39.1' | 127°40.9' | 9.9 | 32.44 |
| Jan 10 | 0852 | 44°49.8' | 127°56.0' | 10.5 | 32.46 |
| Jan 10 | 1404 | 45°05.0' | 127°58.0' | 10.4 | 32.44 |
| Jan 10 | 1810 | 45°20.5' | 127°50.9' | 10.1 | 32.43 |
| Jan 10 | 1920 | 45°20.5' | 128°00.5' | 10.7 | 32.44 |
| Jan 10 | 2326 | 45°53.3' | 128°02.3' | 10.5 | 32.50 |
| Jan 11 | 0052 | 46°04.0' | 128°03.0' | 10.0 | 32.49 |
| Jan 11 | 0506 | 46°14.5' | 127°50.0' | 9.8 | 32.49 |
| Jan 11 | 0917 | 46°14.4' | 127°20.8' | 9.8 | 32.45 |
| Jan 11 | 1357 | 46°14.3' | 126°41.6' | 10.5 | 32.48 |
| Jan 11 | 1800 | 46°14.4' | 126°22.5' | 9.8 | 32.47 |
| Jan 11 | 2150 | 46°14.4' | 125°54.5' | 9.2 | 32.44 |
| Jan 12 | 0319 | 46°14.4' | 125°25.1' | 9.2 | 32.48 |
| Jan 12 | 1800 | 46°03.0' | 124°07.3' | 7.5 | 23.87 |
| Jan 12 | 1900 | 45°53.9' | 124°07.2' | 8.9 | ----- |
| Jan 12 | 2000 | 45°44.2' | 124°06.7' | 9.0 | 31.44 |
| Jan 12 | 2100 | 45°33.7' | 124°07.7' | 9.1 | 31.85 |
| Jan 12 | 2200 | 45°23.2' | 124°07.5' | 8.8 | 31.26 |
| Jan 12 | 2300 | 45°13.8' | 124°08.1' | 9.0 | 31.29 |
| Jan 12 | 2400 | 45°03.7' | 124°06.9' | 9.0 | 31.89 |
| Jan 13 | 0100 | 44°53.9' | 124°07.9' | 8.8 | 31.85 |
| Jan 13 | 0200 | 44°50.0' | 124°08.2' | 8.8 | 31.53 |
| Jan 13 | 0500 | 44°32.4' | 124°07.0' | 8.9 | ----- |
| Jan 13 | 0600 | 44°23.0' | 124°10.5' | 8.8 | ----- |
| Jan 13 | 0700 | 44°13.0' | 124°13.3' | 8.9 | ----- |
| Jan 13 | 0800 | 44°03.8' | 124°15.6' | 9.3 | ----- |
| Jan 13 | 0900 | 43°54.2' | 124°18.2' | 9.4 | ----- |
| Jan 13 | 1000 | 43°45.0' | 124°21.2' | 9.1 | ----- |
| Jan 13 | 1100 | 43°36.1' | 124°24.0' | 9.1 | ----- |
| Jan 13 | 1200 | 43°26.5' | 124°26.8' | 9.0 | ----- |
| Jan 14 | 0140 | 43°20.5' | 125°38.0' | 9.3 | ----- |
| Jan 14 | 0607 | 43°20.5' | 126°05.3' | 9.9 | ----- |
| Jan 14 | 1005 | 43°20.5' | 126°32.1' | 10.0 | ----- |
| Jan 14 | 1425 | 43°20.4' | 126°59.4' | 10.6 | ----- |
| Jan 14 | 1856 | 43°20.6' | 127°26.5' | 9.2 | ----- |
| Jan 14 | 2342 | 43°20.5' | 127°54.2' | 10.2 | ----- |
| | | | | | |
| Feb 4 | 0550 | 44°39.1' | 125°22.0' | 10.0 | 32.565 |
| Feb 4 | 1005 | 44°39.5' | 125°49.5' | 9.6 | 32.598 |
| Feb 4 | 1600 | 44°39.1' | 126°17.0' | 9.6 | 32.512 |
| Feb 4 | 2010 | 44°39.5' | 126°45.2' | 9.5 | 32.487 |
| Feb 4 | 2225 | 44°39.0' | 127°13.2' | 9.5 | ------ |
| Feb 5 | 0420 | 44°39.2' | 127°46.0' | 9.7 | 32.516 |
| Feb 5 | 1841 | 44°39.1' | 125°35.0' | 9.8 | 32.578 |
| Feb 5 | 1953 | 44°39.7' | 125°21.2' | 9.9 | 32.548 |
| Feb 6 | 0240 | 44°39.1' | 124°52.9' | 9.2 | 32.533 |
| | | | | | |
| Mar 8 | 1610 | 43°20.5' | 125°38.0' | 9.5 | |
| Mar 8 | 1808 | 43°20.5' | 126°05.2' | 9.7 | |
| Mar 9 | 0025 | 43°30.4' | 126°18.5' | 9.2 | |
| Mar 9 | 0215 | 43°40.7' | 126°16.0' | 9.2 | |
| Mar 9 | 0405 | 43°50.0' | 126°14.0' | 8.9 | |
| | | | | | |
| Mar 27 | 1400 | 44°21.0 | 125°14.5 | 9.2 | 32.70 |
| Mar 27 | 1500 | 44°03.6' | 125°07.8' | 9.2 | 32.68 |
| Mar 27 | 1600 | 43°55.9' | 124°59.5' | 9.3 | 32.74 |
| Mar 27 | 1700 | 43°48.8' | 124°53.0' | 9.2 | 32.70 |
| Mar 27 | 1807 | 43°41.8' | 124°46.3' | 9.3 | 32.69 |
| Mar 27 | 1900 | 43°32.5' | 124°39.6' | 9.3 | 32.62 |
| Mar 27 | 2000 | 43°24.0' | 124°31.6' | 9.7 | 29.66 |
| Mar 28 | 1235 | 43°20.5' | 125°38.1' | 9.5 | 32.79 |
| Mar 29 | 0300 | 44°05.1' | 124°46.0' | 9.3 | 32.67 |
| Mar 29 | 0400 | 44°06.7' | 124°37.0' | 9.4 | 31.58 |
| Mar 29 | 0500 | 44°14.8' | 124°29.5' | 9.4 | 32.37 |
| Mar 29 | 0600 | 44°21.9' | 124°22.0' | 9.4 | 31.74 |
| Mar 29 | 0700 | 44°29.0' | 124°16.0' | 9.2 | 31.27 |
| Mar 29 | 0800 | 44°39.9' | 124°09.2' | 9.2 | 31.34 |

| Date 1962 | Time GMT | Latitude | Longitude | Temp °C | Sal. °/₀₀ |
|---|---|---|---|---|---|
| Apr 3 | 0435 | 44°39.1 | 125°21.0' | 9.2 | 32.66 |
| Apr 3 | 0807 | 44°39.1' | 125°49.3' | 9.4 | 32.70 |
| Apr 3 | 1158 | 44°39.1' | 126°17.2' | 9.2 | 32.58 |
| Apr 3 | 1600 | 44°39.1' | 126°45.0' | 9.3 | 32.61 |
| Apr 3 | 1930 | 44°39.1' | 127°10.3' | 9.3 | 32.58 |
| Apr 3 | 2115 | 44°38.8' | 127°21.2' | 9.5 | 32.59 |
| Apr 4 | 0303 | 44°49.8' | 127°56.1' | 9.2 | 32.58 |
| Apr 4 | 0405 | 44°59.3' | 127°57.3' | 9.3 | 32.58 |
| Apr 4 | 0800 | 45°21.5' | 127°59.0' | 9.3 | 32.58 |
| Apr 4 | 0915 | 45°32.3' | 128°01.0' | 9.3 | 32.50 |
| Apr 4 | 1307 | 45°53.2' | 128°02.4' | 9.1 | 32.59 |
| Apr 4 | 1425 | 46°04.0' | 128°03.0' | 8.6 | 32.59 |
| Apr 4 | 1813 | 46°14.5' | 127°49.7' | 9.0 | 32.57 |
| Apr 4 | 2145 | 46°14.4' | 127°20.6' | 10.0 | 32.57 |
| Apr 5 | 0152 | 46°14.4' | 126°52.0' | 9.6 | 32.55 |
| Apr 5 | 0545 | 46°14.5' | 126°23.0' | 9.4 | 32.59 |
| Apr 5 | 0858 | 46°14.4' | 125°55.5' | 9.3 | 32.57 |
| | | | | | |
| Apr 5 | 1327 | 46°14.4' | 125°25.0' | 9.4 | 32.65 |
| Apr 6 | 1000 | 46°07.2' | 125°06.9' | 9.5 | 32.49 |
| Apr 6 | 1100 | 46°00.0' | 125°02.7' | 9.5 | 31.39 |
| Apr 6 | 1200 | 45°53.2' | 124°57.6' | 9.5 | 32.36 |
| Apr 6 | 1300 | 45°47.1' | 124°49.3' | 9.5 | 32.52 |
| Apr 6 | 1400 | 45°43.0' | 124°44.0' | 9.2 | 31.36 |
| Apr 6 | 1500 | 45°37.0' | 124°34.4' | 9.4 | 31.41 |
| Apr 6 | 1600 | 45°30.3' | 124°25.6' | 9.5 | 31.66 |
| Apr 6 | 1700 | 45°24.5' | 124°17.0' | 9.6 | 31.53 |
| Apr 6 | 1800 | 45°17.2' | 124°09.4' | 9.2 | 31.23 |
| Apr 6 | 1900 | 45°10.4' | 124°08.2' | 9.2 | 29.96 |
| Apr 6 | 2000 | 45°03.7' | 124°07.7' | 9.1 | 30.80 |
| Apr 6 | 2100 | 44°57.2' | 124°08.6' | 9.3 | 30.54 |
| Apr 6 | 2200 | 44°51.0' | 124°09.6' | 9.6 | 31.28 |
| Apr 6 | 2300 | 44°43.7' | 124°08.0' | 9.8 | 31.64 |
| | | | | | |
| May 2 | 0558 | 44°39.1' | 125°20.8' | 10.2 | 32.37 |
| May 2 | 0940 | 44°39.1' | 125°49.0' | 10.3 | 32.57 |
| May 2 | 1505 | 44°39.0' | 126°16.4' | 10.0 | 32.60 |
| May 2 | 1850 | 44°39.1' | 126°44.9' | 10.1 | 32.59 |
| May 2 | 2232 | 44°39.1' | 127°12.8' | 10.1 | 32.58 |
| May 3 | 0250 | 44°39.1' | 127°41.0' | 10.1 | 32.58 |
| | | | | | |
| June 5 | 0733 | 44°39.1' | 125°20.5' | 13.0 | |
| June 5 | 1235 | 44°39.1' | 125°49.0' | 13.4 | |
| June 5 | 1610 | 44°39.1' | 126°17.0' | 12.8 | |
| June 5 | 1956 | 44°39.4' | 126°44.8' | 12.2 | |
| June 6 | 0005 | 44°39.1' | 127°13.2' | 12.0 | |
| June 6 | 0125 | 44°39.1' | 127°41.0' | 11.9 | |
| June 6 | 0752 | 44°49.6' | 127°56.0' | 11.8 | |
| June 6 | 0900 | 45°00.3' | 127°57.0' | 11.6 | |
| June 6 | 1245 | 45°21.5' | 127°59.0' | 11.3 | |
| June 6 | 1400 | 45°32.3' | 128°00.6' | 11.4 | |
| June 6 | 1738 | 45°50.7' | 128°02.3' | 12.0 | |
| June 6 | 1853 | 46°03.9' | 128°03.0' | 12.6 | |
| June 6 | 2233 | 46°14.4' | 127°49.5' | 13.6 | |
| June 7 | 0200 | 46°14.4' | 127°20.8' | 13.0 | |
| June 7 | 0512 | 46°14.5' | 126°51.8' | 12.1 | |
| June 7 | 0900 | 46°14.4' | 126°22.5' | 12.0 | |
| June 7 | 1120 | 46°14.4' | 125°54.0' | 11.8 | |
| June 7 | 1530 | 46°14.2' | 125°25.0' | 12.5 | |
| June 8 | 1100 | 46°08.9' | 125°05.1' | 13.0 | 31.90 |
| June 8 | 1200 | 46°00.2' | 124°59.4' | 13.6 | 24.58 |
| June 8 | 1300 | 45°51.1' | 124°54.8' | 14.0 | 20.55 |
| June 8 | 1400 | 45°41.9' | 124°48.5' | 13.6 | 26.62 |
| June 8 | 1500 | 45°37.6' | 124°43.7' | 13.6 | 29.099 |
| June 8 | 1600 | 45°24.0' | 124°37.0' | 13.7 | 29.744 |
| June 8 | 1700 | 45°15.4' | 124°31.8' | 13.7 | 28.887 |
| June 8 | 1800 | 45°06.4' | 124°27.4' | 13.1 | 29.466 |
| June 8 | 1900 | 44°57.7' | 124°21.5' | 11.6 | 31.073 |
| June 8 | 2000 | 44°48.8' | 124°12.2' | 11.4 | 31.460 |
| June 8 | 2107 | 44°38.5' | 124°06.2' | 9.7 | 31.181 |
| June 11 | 1930 | 44°16.2' | 124°10.1' | 8.6 | 33.744 |
| June 11 | 2030 | 44°17.4' | 124°11.9' | 10.3 | 33.044 |

| Date 1962 | Time GMT | Latitude | Longitude | Temp.°C | Sal. °/₀₀ |
|---|---|---|---|---|---|
| June 11 | 2130 | 44°07.8' | 124°15.6' | 9.0 | 33.534 |
| June 11 | 2230 | 43°57.8' | 124°19.7' | 11.5 | 32.376 |
| June 11 | 2330 | 43°47.4' | 124°21.0' | 11.5 | 32.117 |
| June 12 | 0030 | 43°37.2' | 124°24.5' | 9.8 | 32.564 |
| June 12 | 0130 | 43°26.5' | 124°27.0' | 9.1 | 33.569 |
| June 12 | 1435 | 43°20.7' | 125°38.2' | 12.4 | 31.182 |
| June 12 | 1830 | 43°20.6' | 126°05.2' | 13.0 | 31.187 |
| June 12 | 2238 | 43°20.5' | 126°32.2' | 13.4 | 31.302 |
| June 13 | 1130 | 43°20.7' | 127°54.0' | 12.4 | 37.751 |
| June 13 | 1607 | 43°10.8' | 128°05.6' | 12.4 | 32.762 |
| June 13 | 1723 | 43°00.5' | 128°03.5' | 12.5 | 32.676 |
| June 13 | 1835 | 42°50.6' | 128°01.6' | 12.6 | 32.681 |
| June 13 | 2234 | 42°30.8' | 127°58.0' | 12.5 | 32.700 |
| June 13 | 2355 | 42°20.5' | 127°56.2' | 12.5 | 32.694 |
| June 14 | 0104 | 42°10.5' | 127°54.2' | 12.5 | 32.762 |
| June 14 | 0735 | 42°00.0' | 127°40.0' | 12.6 | 32.789 |
| June 14 | 1945 | 42°00.0' | 127°13.2' | 13.1 | 32.685 |
| June 15 | 0020 | 42°00.0' | 126°45.8' | 13.1 | 32.604 |
| June 15 | 1110 | 42°00.0' | 125°53.0' | 13.0 | 32.698 |
| June 15 | 1530 | 42°00.0' | 125°26.5' | 13.0 | 31.892 |
| June 16 | 1203 | 42°01.1' | 125°01.0' | 11.2 | 32.508 |
| June 16 | 1302 | 42°06.5' | 125°07.2' | 10.8 | 32.583 |
| June 16 | 1401 | 42°11.6' | 125°00.0' | 10.5 | 32.571 |
| June 16 | 1500 | 42°17.5' | 124°54.5' | 9.8 | 32.642 |
| June 16 | 1600 | 42°24.0' | 124°48.8' | 9.5 | 33.266 |
| June 16 | 1700 | 42°29.3' | 124°43.3' | 9.2 | 33.410 |
| June 16 | 1801 | 42°36.8' | 124°43.2' | 9.5 | 33.496 |
| June 16 | 1900 | 42°45.5' | 124°42.2' | 9.2 | 33.619 |
| June 16 | 2000 | 42°52.8' | 124°38.6' | 9.0 | 33.673 |
| June 16 | 2100 | 43°00.8' | 124°37.4' | 10.5 | 32.780 |
| June 16 | 2200 | 43°08.6' | 124°35.6' | 11.5 | 32.941 |
| June 16 | 2300 | 43°15.9' | 124°30.0' | 11.5 | 33.227 |
| June 16 | 2400 | 43°25.2' | 124°26.4' | 11.2 | 33.203 |
| June 17 | 0100 | 43°32.2' | 124°24.4' | 10.7 | 32.610 |
| June 17 | 0158 | 43°40.4' | 124°22.7' | 10.4 | 32.640 |
| June 17 | 0259 | 43°48.6' | 124°20.4' | 10.3 | 32.788 |
| June 17 | 0400 | 43°59.3' | 124°20.0' | 9.9 | 32.751 |
| June 17 | 0500 | 44°06.0' | 124°16.7' | 10.1 | 33.094 |
| June 17 | 0600 | 44°15.2' | 124°13.5' | 10.9 | 33.463 |
| June 17 | 0700 | 44°24.7' | 124°11.5' | 11.5 | 33.460 |
| June 17 | 0800 | 44°33.8' | 124°08.5' | 10.5 | 33.656 |
| June 28 | | 43°50.0' | 125°00.0' | | 31.74 |
| June 29 | | 44°03.0' | 125°22.0' | | 31.56 |
| June 29 | | 44°17.0' | 125°44.0' | | 30.32 |
| June 29 | | 44°31.0' | 126°07.0' | | 31.38 |
| June 30 | | 44°45.0' | 126°30.0' | | 31.44 |
| June 30 | | 44°52.0' | 126°07.0' | | 29.49 |
| June 30 | | 45°00.0' | 125°45.0' | | 30.04 |
| June 30 | | 45°08.0' | 125°22.0' | | 31.00 |
| July 1 | | 45°15.0' | 125°10.0' | | 31.44 |
| July 1 | | 45°24.0' | 125°22.0' | | 31.94 |
| July 1 | | 45°32.0' | 125°45.0' | | 32.27 |
| July 1 | | 45°41.0' | 126°07.0' | | 32.56 |
| July 1 | | 45°50.0' | 126°30.0' | | 32.57 |
| July 2 | | 45°56.0' | 125°56.0' | | 32.10 |
| July 2 | | 46°00.0' | 125°30.0' | | 32.11 |
| July 2 | | 46°00.0' | 126°06.0' | | 32.55 |
| July 2 | | 46°00.0' | 127°00.0' | | 32.65 |
| July 3 | | 45°40.0' | 127°00.0' | | 31.04 |
| July 3 | | 45°20.0' | 127°00.0' | | 30.61 |
| July 3 | | 45°00.0' | 127°00.0' | | 29.88 |
| July 3 | | 44°40.0' | 127°00.0' | | 31.94 |
| July 3 | | 44°20.0' | 127°00.0' | | 32.27 |
| July 4 | | 44°00.0' | 127°00.0' | | 32.68 |
| July 4 | | 43°40.0' | 127°00.0' | | 32.60 |
| July 4 | | 43°20.0' | 127°00.0' | | 32.45 |
| July 4 | | 43°00.0' | 12 °00.0' | | 31.04 |
| July 4 | | 42°40.0' | 127°00.0' | | 31.19 |
| July 5 | | 42°20.0' | 127°00.0' | | 31.64 |
| July 5 | | 42°00.0' | 127°00.0' | | 31.83 |
| July 5 | | 42°00.0' | 126°35.0' | | 32.59 |
| July 5 | | 42°00.0' | 126°10.0' | | 32.18 |
| July 5 | | 42°00.0' | 125°45.0' | | 32.10 |
| July 6 | | 42°00.0' | 125°20.0' | | 32.27 |
| July 6 | | 42°15.0' | 125°37.0' | | 31.86 |
| July 6 | | 42°30.0' | 125°54.0' | | 32.03 |
| July 7 | | 42°45.0' | 126°12.0' | | 31.61 |
| July 7 | | 43°00.0' | 126°30.0' | | 30.89 |
| July 7 | | 43°12.0' | 126°08.0' | | 31.00 |
| July 7 | | 43°24.0' | 125°35.0' | | 31.35 |
| July 7 | | 43°36.0' | 125°22.0' | | 31.60 |

| Date 1962 | Time GMT | Latitude | Longitude | Temp°C | Sal. °/₀₀ |
|---|---|---|---|---|---|
| July 23 | 1730 | 44°46.0' | 124°08.4' | 9.8 | 33.84 |
| July 23 | 1830 | 44°54.5' | 124°11.2' | 10.5 | 32.60 |
| July 23 | 1930 | 45°02.7' | 124°12.2' | 11.5 | 32.43 |
| July 23 | 2030 | 45°10.8' | 124°12.2' | 12.4 | 32.35 |
| July 23 | 2130 | 45°18.8' | 124°13.7' | 14.0 | 31.74 |
| July 23 | 2230 | 45°26.9' | 124°12.5' | 14.1 | 31.49 |
| July 23 | 2330 | 45°35.1' | 124°11.5' | 14.5 | 29.14 |
| July 24 | 0030 | 45°43.0' | 124°11.4' | 15.2 | 28.91 |
| July 24 | 0130 | 45°51.9' | 124°12.0' | 14.6 | 28.73 |
| July 24 | 0235 | 46°00.5' | 124°12.5' | 12.8 | 30.58 |
| July 24 | 0330 | 46°08.2' | 124°13.0' | 12.4 | |
| July 24 | 1530 | 46°15.2' | 125°14.2' | 15.4 | 32.35 |
| July 25 | 0315 | 46°14.5' | 126°51.5' | 15.8 | 32.23 |
| July 25 | 0718 | 46°14.4' | 127°20.8' | 15.6 | 32.35 |
| July 25 | 1120 | 46°14.4' | 127°49.5' | 15.0 | 32.58 |
| July 25 | 1510 | 46°03.8' | 128°03.0' | 15.6 | 32.24 |
| July 25 | 1640 | 45°53.2' | 128°02.5' | 15.7 | 32.15 |
| July 25 | 2012 | 45°31.8' | 128°00.5' | 15.9 | 31.97 |
| July 25 | 2120 | 45°21.3' | 127°59.8' | 16.2 | 31.61 |
| July 26 | 0100 | 45°00.5' | 127°56.7' | 16.6 | 31.18 |
| July 26 | 0215 | 44°49.8' | 127°55.6' | 16.7 | 30.98 |
| July 26 | 0615 | 44°39.5' | 127°41.0' | 16.7 | 31.08 |
| July 26 | 1047 | 44°39.5' | 127°13.0' | 16.6 | 31.39 |
| July 26 | 1510 | 44°39.5' | 126°45.3' | 16.6 | 1.14 |
| July 26 | 1915 | 44°39.5' | 126°17.3' | 16.7 | 30.47 |
| July 26 | 2335 | 44°39.5' | 125°49.5' | 16.1 | 31.27 |
| July 27 | 0405 | 44°39.4' | 125°20.5' | 14.2 | 32.10 |
| July 30 | 1730 | 44°36.5' | 124°05.0' | 9.5 | 33.75 |
| July 30 | 1845 | 44°25.7' | 124°09.9' | 9.5 | 33.86 |
| July 30 | 1945 | 44°17.0' | 124°11.7' | 10.7 | 33.66 |
| July 30 | 2045 | 44°07.2' | 124°14.9' | 10.8 | 33.64 |
| July 30 | 2145 | 43°58.2' | 124°17.2' | 9.4 | 33.74 |
| July 30 | 2245 | 43°47.9' | 124°21.2' | 9.7 | 33.72 |
| July 30 | 2345 | 43°38.5' | 124°25.0' | 10.6 | 33.52 |
| July 31 | 0045 | 43°28.4' | 124°28.0' | 10.7 | 32.92 |
| July 31 | 1500 | 43°20.4' | 125°38.1' | 14.4 | 32.26 |
| July 31 | 1820 | 43°20.6' | 126°05.0' | 14.6 | 32.23 |
| July 31 | 2047 | 43°20.5' | 126°32.5' | 14.7 | 32.23 |
| Aug 1 | 0120 | 43°20.4' | 126°59.5' | 16.5 | 31.40 |
| Aug 1 | 0840 | 43°20.5' | 127°54.0' | 16.4 | 32.23 |
| Aug 1 | 1225 | 43°10.5' | 128°06.0' | 16.5 | 32.08 |
| Aug 1 | 1330 | 43°00.5' | 128°04.0' | 16.6 | 32.04 |
| Aug 1 | 1500 | 42°50.4' | 128°01.5' | 16.4 | 31.92 |
| Aug 1 | 1903 | 42°30.2' | 127°58.5' | 16.6 | 31.83 |
| Aug 1 | 2010 | 42°20.2' | 127°56.5' | 16.7 | 31.86 |
| Aug 1 | 2120 | 42°10.0' | 127°55.0' | 16.8 | 31.73 |
| Aug 2 | 0610 | 42°00.0' | 127°39.7' | 16.6 | 31.84 |
| Aug 2 | 1345 | 42°00.0' | 126°46.5' | 16.0 | 32.05 |
| Aug 2 | 1400 | 42°00.0' | 126°47.1' | 16.5 | |
| Aug 2 | 1420 | 42°00.0' | 126°52.2' | 16.0 | |
| Aug 2 | 1705 | 42°00.0' | 127°13.2' | 16.4 | 31.86 |
| Aug 3 | 0305 | 42°00.0' | 126°20.0' | 16.1 | 32.23 |
| Aug 3 | 0655 | 42°00.0' | 125°53.5' | 16.2 | 32.05 |
| Aug 3 | 1050 | 42°00.0' | 125°26.7' | 10.9 | 33.57 |
| Aug 4 | 1030 | 42°06.4' | 125°00.8' | 14.5 | 32.45 |
| Aug 4 | 1130 | 42°10.9' | 125°00.1' | 15.5 | 32.12 |
| Aug 4 | 1230 | 42°21.8' | 124°54.3' | 15.7 | 32.11 |
| Aug 4 | 1330 | 42°29.0' | 124°50.0' | 15.0 | 32.39 |
| Aug 4 | 1430 | 42°36.7' | 124°46.4' | 14.2 | 32.56 |
| Aug 4 | 1530 | 42°53.0' | 124°44.0' | 12.6 | 32.73 |
| Aug 4 | 1630 | 42°52.0' | 124°40.0' | 10.8 | 33.07 |
| Aug 4 | 1735 | 43°00.3' | 124°37.4' | 10.8 | 33.25 |
| Aug 4 | 1830 | 43°08.7' | 124°32.5' | 12.2 | 32.67 |
| Aug 4 | 1930 | 43°18.2' | 124°27.6' | 11.7 | 33.27 |
| Aug 4 | 2130 | 43°32.7' | 124°21.5' | 13.3 | 32.75 |
| Aug 4 | 2230 | 43°40.1' | 124°19.5' | 13.4 | 32.74 |
| Aug 4 | 2330 | 43°46.0' | 124°p8.5' | 13.2 | 32.87 |
| Aug 5 | 0030 | 43°54.0' | 124°16.8' | 13.5 | 33.16 |
| Aug 5 | 0230 | 44°10.5' | 124°15.5' | 12.5 | 32.80 |
| Aug 5 | 0330 | 44°18.6' | 124°13.5' | 12.3 | 32.77 |
| Aug 5 | 0430 | 44°27.3' | 124°11.4' | 10.4 | 33.42 |
| Aug 5 | 0525 | 44°36.8'* | 124°04.6' | 10.8 | 33.49 |
| Sept 5 | 1625 | 44°39.1' | 125°21.0' | 16.6 | |
| Sept 5 | 2005 | 44°39.6' | 125°49.1' | 17.0 | |
| Sept 6 | 0445 | 44°39.1' | 126°17.2' | 16.9 | |
| Sept 6 | 0813 | 44°39.1' | 126°45.0' | 16.9 | |
| Sept 6 | 1230 | 44°39.1' | 127°13.1' | 17.5 | |
| Sept 6 | 1608 | 44°39.2' | 127°46.0' | 17.5 | |

| Date | Time | Latitude | Longitude | Temp °C | Sal. °/₀₀ |
|---|---|---|---|---|---|
| 1962 | GMT | | | | |
| Oct 16 | 1700 | 44°39.1' | 125°21.0' | 12.3 | |
| Oct 16 | 2348 | 44°39.0' | 126°17.4' | 13.2 | |
| Oct 17 | 0430 | 44°50.0' | 126°31.4' | 13.8 | |
| Oct 17 | 0600 | 45°00.5' | 126°32.0' | 14.2 | |
| Oct 17 | 0742 | 45°11.5' | 126°33.0' | 14.0 | |
| Oct 17 | 0845 | 45°21.2' | 126°33.7' | 14.1 | |
| Oct 17 | 1000 | 45°31.5' | 126°34.2' | 14.0 | |
| Oct 17 | 1110 | 45°42.2' | 126°35.0' | 14.1 | |
| Oct 17 | 1228 | 45°52.8' | 126°35.6' | 13.9 | |
| Oct 17 | 1342 | 46°03.0' | 126°36.4' | 13.1 | |
| Oct 17 | 1845 | 46.14.7' | 126°23.0' | 12.9 | |
| Oct 17 | 2240 | 46°14.4' | 125°53.8' | 12.9 | |
| Oct 18 | 0200 | 46°14.4' | 125°25.0' | 12.9 | |
| Oct 22 | 1700 | 44°36.8'* | 124°04.6' | 12.6 | 32.04 |
| Oct 22 | 1800 | 44°27.0' | 124°10.0' | 12.9 | 32.34 |
| Oct 22 | 1900 | 44°18.0' | 124°14.2' | 13.0 | 32.42 |
| Oct 22 | 2000 | 44°08.0' | 124°16.2' | 13.2 | 32.37 |
| Oct 22 | 2100 | 43°58.6' | 124°19.7' | 13.3 | 32.51 |
| Oct 22 | 2200 | 43°49.5' | 125°22.1' | 13.2 | 32.61 |
| Oct 22 | 2400 | 43°30.5' | 124°29.0' | 13.5 | 32.61 |
| Oct 23 | 0100 | 43°20.5' | 124°31.7' | 13.1 | 32.64 |
| Oct 23 | 0200 | 43°10.5' | 124°35.0' | 12.7 | 32.64 |
| Oct 23 | 0300 | 43°00.5' | 124°38.0' | 12.5 | 32.81 |
| Oct 23 | 0400 | 42°49.4' | 124°41.9' | 12.0 | 32.98 |
| Oct 23 | 0500 | 42°40.0' | 124°40.5' | 10.6 | 33.47 |
| Oct 23 | 0600 | 42°32.3' | 124°37.9' | 11.2 | 33.29 |
| Oct 23 | 0700 | 42°23.5' | 124°33.3' | 11.3 | 33.09 |
| Oct 23 | 0800 | 42°14.5' | 124°30.4' | 11.5 | 33.10 |
| Oct 23 | 0900 | 42°06.4' | 124°26.7' | 11.8 | 33.04 |
| Oct 24 | 0455 | 42°00.0' | 125°26.5' | 12.0 | 32.90 |
| Oct 24 | 1545 | 41°59.8' | 126°45.6' | 13.8 | 32.89 |
| Oct 24 | 1905 | 42°00.0' | 127°13.0' | 13.5 | 32.91 |
| Oct 24 | 2316 | 42°00.0' | 127°39.8' | 12.7 | 33.05 |
| Oct 25 | 1135 | 42°00.0' | 126°19.4' | 14.1 | |
| Oct 25 | 1500 | 42°00.2' | 125°53.4' | 13.2 | 32.80 |
| Oct 25 | 1900 | 42°12.0' | 125°36.2' | 14.1 | 32.83 |
| Oct 25 | 2000 | 42°21.8' | 125°32.0' | 13.9 | 32.84 |
| Oct 25 | 2100 | 42°32.5 | 125°27.0' | 13.5 | 32.86 |
| Oct 25 | 2200 | 42°42.2' | 125°25.5' | 12.8 | 32.74 |
| Oct 25 | 2300 | 42°51.6' | 125°20.3' | 12.7 | 32.81 |
| Oct 25 | 2400 | 43°00.5' | 125°16.9' | 12.8 | 32.84 |
| Oct 26 | 0100 | 43°10.2' | 125°12.9' | 12.7 | 32.84 |
| Oct 26 | 0400 | 43°28.0' | 125°05.0' | 13.3 | 32.58 |
| Oct 26 | 0500 | 43°35.0' | 125°01.6' | 12.9 | 32.61 |
| Oct 26 | 0600 | 43°43.2' | 124°53.6' | 13.1 | 32.65 |
| Oct 26 | 0700 | 43°51.4' | 124°46.5' | 12.9 | 32.69 |
| Oct 26 | 0800 | 43°59.6' | 124°38.9' | 13.1 | 32.69 |
| Oct 26 | 0900 | 44°07.0' | 124°30.9' | 13.1 | 32.59 |
| Oct 26 | 1000 | 44°16.1' | 124°25.5' | 13.0 | 32.39 |
| Oct 26 | 1100 | 44°24.0' | 124°18.1' | 12.9 | 32.34 |
| Oct 26 | 1200 | 44°30.7' | 124°13.0' | 13.1 | 32.17 |
| Oct 26 | 1245 | 44°35.6' | 124°07.9' | 13.1 | 32.90 |
| Dec 17 | 1321 | 44°39.0' | 125°21.1' | 11.4 | 32.54 |
| Dec 17 | 1815 | 44°39.2' | 125°49.0' | 11.4 | 32.57 |
| Dec 17 | 2204 | 44°39.1' | 126°17.1' | 11.7 | 32.53 |
| Dec 18 | 0225 | 44°39.2' | 126°44.3' | 11.6 | 32.54 |
| Dec 18 | 0620 | 44°39.2' | 127°13.1' | 11.7 | 32.55 |
| Dec 18 | 1000 | 44°39.1' | 127°41.0' | 11.7 | 32.59 |
| Dec 18 | 1445 | 44°49.7' | 127°54.0' | 11.4 | 32.59 |
| Dec 18 | 1600 | 45°00.9' | 127°57.0' | 11.7 | 32.58 |
| Dec 18 | 1945 | 45°21.8' | 127°59.9' | 11.5 | 32.57 |
| Dec 18 | 2100 | 45°32.0' | 128°00.3' | 11.6 | 32.58 |
| Dec 18 | 2220 | 45°42.5' | 128°01.5' | 11.6 | 32.52 |
| Dec 18 | 2328 | 45°53.4' | 128°02.3' | 11.8 | 32.53 |
| Dec 19 | 0045 | 46°03.6' | 128°03.0' | 11.1 | 32.53 |
| Dec 19 | 0500 | 46°14.4' | 127°49.0' | 11.1 | |
| Dec 19 | 0955 | 46°14.1' | 127°20.5' | 11.2 | 32.59 |
| Dec 19 | 1420 | 46°14.4' | 126°46.8' | 10.6 | 32.46 |
| Dec 19 | 1825 | 46°14.4' | 126°22.7' | 11.0 | 32.44 |
| Dec 19 | 2201 | 46°14.4' | 125°53.8' | 11.1 | 32.46 |
| Dec 19 | 0320 | 46°14.1' | 125°24.5' | 10.7 | 32.40 |
| Dec 27 | 1600 | 44°36.8'* | 124°04.6' | 10.3 | |
| Dec 27 | 1700 | 44°28.5' | 124°09.7' | 10.3 | |
| Dec 27 | 1800 | 44°20.0' | 124°12.0' | 10.6 | |
| Dec 27 | 1900 | 44°11.5' | 124°14.5' | 10.3 | |
| Dec 27 | 2000 | 44°11.8' | 124°15.8' | 11.3 | |
| Dec 27 | 2100 | 43°52.6' | 124°18.5' | 11.0 | |
| Dec 27 | 2200 | 43°43.3' | 124°20.8' | 10.9 | |
| Dec 27 | 2300 | 43°34.0' | 124°25.3' | 10.8 | |
| Dec 27 | 2400 | 43°24.8' | 124°28.0' | 11.1 | |
| Dec 28 | 1425 | 43°20.5' | 125°38.0' | 11.3 | |
| Dec 29 | 0225 | 43°20.5' | 126°59.2' | 11.7 | |

* Entrance to Yaquina Bay

| Date | Time | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| 1963 | GMT | | | | |
| Feb 22 | 1217 | 44°39.1' | 125°21.0' | 10.6 | 32.57 |
| Feb 22 | 1640 | 44°39.1' | 125°49.2' | 10.4 | 32.57 |
| Feb 22 | 2005 | 44°39.1' | 126°17.1' | 10.6 | 32.61 |
| Feb 23 | 0205 | 44°39.2' | 126°44.8' | 10.5 | 32.59 |
| Feb 23 | 0600 | 44°39.1' | 127°12.8' | 10.4 | 32.61 |
| Feb 23 | 0720 | 44°39.1' | 127°40.8' | 10.6 | 32.67 |
| Feb 23 | 1420 | 44°48.6' | 127°57.0' | 10.3 | 32.54 |
| Feb 23 | 1535 | 45°00.5' | 127°57.2' | 10.1 | 32.56 |
| Feb 23 | 1916 | 45°21.5' | 128°00.0' | 10.2 | 32.53 |
| Feb 23 | 2033 | 45°32.0' | 128°00.2' | 10.2 | 32.55 |
| Feb 24 | 0025 | 45°53.4' | 128°02.2' | 10.2 | 32.53 |
| Feb 24 | 0145 | 46°03.7' | 128°03.0' | 10.4 | 32.52 |
| Feb 24 | 0955 | 46°14.4' | 127°20.7' | 10.0 | 32.53 |
| Feb 24 | 1400 | 46°14.5' | 126°52.0' | 10.8 | 32.54 |
| Feb 24 | 1820 | 46°14.7' | 126°23.0' | 9.9 | 32.56 |
| Feb 24 | 2700 | 46°14.4' | 125°54.0' | 9.7 | 32.44 |
| Feb 25 | 0305 | 46°14.6' | 125°24.5' | 10.0 | 32.49 |
| Feb 26 | 0500 | 46°11.4' | 124°50.5' | 10.3 | 32.47 |
| Feb 26 | 0700 | 45°58.0' | 124°53.1' | 10.3 | 32.49 |
| Feb 26 | 0900 | 45°41.9' | 124°50.9' | 10.5 | 32.53 |
| Feb 26 | 1300 | 45°21.0' | 124°45.0' | 10.2 | 32.52 |
| Feb 26 | | 45°05.0' | 124°30.2' | 10.7 | 32.61 |
| Feb 26 | 1700 | 44°49.0 | 124°16.8' | 10.4 | 32.57 |
| Mar 1 | 2300 | 44°33.4' | 124°07.5' | 11.6 | 30.34 |
| Mar 2 | 0000 | 44°24.4' | 124°10.2' | 10.6 | 32.04 |
| Mar 2 | 0100 | 44°15.8' | 124°13.0' | 10.6 | 32.77 |
| Mar 2 | 0200 | 44°06.0' | 124°16.0' | 10.6 | 32.69 |
| Mar 2 | 0300 | 43°57.5' | 124°19.7' | 10.5 | 32.65 |
| Mar 2 | 0400 | 43°43.8' | 124°21.0' | 10.7 | 32.88 |
| Mar 2 | 0500 | 43°39.5' | 124°24.3' | 10.7 | 32.75 |
| Mar 2 | 0600 | 43°31.2' | 124°26.0' | 10.8 | 32.69 |
| Mar 2 | 0700 | 43°22.4' | 124°30.5' | 10.8 | 32.61 |
| Mar 2 | 0800 | 43°13.2' | 124°33.5' | 11.4 | 32.53 |
| Mar 2 | 0900 | 43°03.8' | 124°36.3' | 11.4 | 32.14 |
| Mar 2 | 1000 | 42°54.7' | 124°39.5' | 11.4 | 32.40 |
| Mar 2 | 1100 | 42°46.2' | 124°41.8' | 11.0 | 32.48 |
| Mar 2 | 1200 | 42°36.9' | 124°38.5' | 11.0 | 32.41 |
| Mar 2 | 1300 | 42°27.2' | 124°34.6' | 11.2 | 32.23 |
| Mar 2 | 1400 | 42°17.5' | 124°30.0' | 11.3 | 32.24 |
| Mar 2 | 1500 | 42°08.5' | 124°25.2' | 11.4 | 31.85 |
| Mar 3 | 1740 | 42°00.0' | 125°26.6' | 11.2 | 32.74 |
| Mar 3 | 2155 | 42°00.0' | 125°53.7' | 10.9 | 32.81 |
| Mar 4 | 0635 | 42°00.0' | 126°20.0' | 10.8 | 32.80 |
| Mar 4 | 1045 | 42°00.0' | 126°46.0' | 10.8 | 32.80 |
| Mar 4 | 1600 | 42°00.0' | 127°13.3' | 11.1 | 32.69 |
| Mar 4 | 1930 | 42°00.0' | 127°39.8' | 11.0 | -- |
| Mar 5 | 0620 | 42°08.7' | 127°34.0' | 11.0 | 32.59 |
| Mar 5 | 0730 | 42°17.0' | 127°40.6' | 10.8 | 32.59 |
| Mar 5 | 0840 | 42°25.4' | 127°47.5' | 11.4 | 32.66 |
| Mar 5 | 0945 | 42°33.8' | 127°54.5' | 11.8 | 32.77 |
| Mar 5 | 1320 | 42°50.5' | 128°02.0' | 11.2 | 32.75 |
| Mar 5 | 1425 | 43°00.5' | 128°04.0' | 11.3 | 32.68 |
| Mar 5 | 1540 | 43°10.9' | 128°06.3' | 11.1 | 32.68 |
| Mar 5 | 1950 | 43°20.5' | 127°54.0' | 10.8 | 32.69 |
| Mar 5 | 2322 | 43°20.5' | 127°27.0' | 10.6 | 32.61 |
| Mar 6 | 0340 | 43°20.5' | 126°59.1' | 10.3 | 32.63 |
| Mar 6 | 0740 | 43°20.5' | 126°32.1' | 10.4 | 32.74 |
| Mar 6 | 1130 | 43°20.5' | 126°05.0' | 10.6 | 32.72 |
| Mar 6 | 1605 | 43°20.5' | 125°38.0' | 11.1 | 32.82 |
| Mar 7 | 1000 | 43°25.0' | 125°21.0' | 10.4 | 32.55 |
| Mar 7 | 1100 | 43°31.0' | 125°11.8' | 10.8 | 32.56 |
| Mar 7 | 1200 | 43°41.1' | 125°05.1' | 10.4 | 32.66 |
| Mar 7 | 1300 | 43°44.5' | 124°57.6' | 10.2 | 32.64 |
| Mar 7 | 1400 | 43°51.8' | 124°50.5' | 10.5 | 32.60 |
| Mar 7 | 1500 | 43°59.3' | 124°40.0' | 10.6 | 32.71 |
| Mar 7 | 1600 | 44°06.8' | 124°33.4' | 10.3 | 32.67 |
| Mar 7 | 1700 | 44°14.6' | 124°25.0' | 10.6 | 32.62 |
| Mar 7 | 2000 | 44°29.3' | 124°14.8' | 11.2 | 31.50 |
| May 13 | 1730 | Yaquina Bay entrance buoy | | 11.7 | 28.53 |
| May 13 | 1830 | 44°26.7' | 124°09.7' | 12.1 | 31.57 |
| May 13 | 1930 | 44°17.5' | 124°13.3' | 12.3 | 31.48 |
| May 13 | 2030 | 44°08.0' | 124°16.3' | 12.4 | 31.36 |
| May 13 | 2130 | 43°59.2' | 124°18.8' | 12.9 | 31.82 |
| May 13 | 2230 | 43°49.5' | 124°22.0' | 12.8 | 31.74 |
| May 13 | 2330 | 43°40.0' | 124°25.0' | 13.0 | 32.44 |
| May 14 | 0030 | 43°30.8' | 124°27.7' | 13.5 | 31.23 |
| May 14 | 0130 | 43°22.1' | 124°30.2' | 12.8 | 31.51 |
| May 14 | 0230 | 43°10.7' | 124°33.7' | 13.7 | 29.98 |
| May 14 | 0330 | 43°05.4' | 124°35.3' | 13.6 | 28.65 |
| May 14 | 0430 | 42°55.0' | 124°40.0' | 13.3 | 30.72 |
| May 14 | 0530 | 42°46.0' | 124°42.0' | 13.1 | 30.98 |

| Date 1963 | Time GMT | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| May 14 | 0630 | 42°36.8' | 124°38.5' | 13.2 | 30.80 |
| May 14 | 0730 | 42°27.4' | 124°34.5' | 13.1 | 30.98 |
| May 14 | 0830 | 42°17.7' | 124°32.2' | 12.8 | 29.58 |
| May 14 | 0930 | 42°07.9' | 124°27.8' | 12.8 | 30.65 |
| May 15 | 1930 | 42°00.1' | 125°53.2' | 12.6 | 32.51 |
| May 16 | 1515 | 42°00.0' | 127°12.5' | 12.1 | 32.67 |
| May 17 | 0725 | 42°00.2' | 125°27.0' | 12.5 | 32.50 |
| May 18 | 2105 | 42°13.5' | 124°53.7' | 13.7 | 32.13 |
| May 18 | 3200 | 42°21.9' | 124°50.9' | 13.3 | 32.21 |
| May 18 | 2300 | 42°30.3' | 124°49.8 | 13.2 | 32.01 |
| May 19 | 0000 | 42°37.3' | 124°44.9' | 12.8 | 32.54 |
| May 19 | 0100 | 42°45.2' | 124°41.4' | 12.5 | 32.33 |
| May 19 | 0200 | 42°52.3' | 124°38.8' | 11.8 | 32.46 |
| May 19 | 0300 | 42°59.3' | 124°36.6' | 11.8 | 32.21 |
| May 19 | 0400 | 43°07.0' | 124°33.8' | 11.9 | 32.12 |
| May 19 | 0500 | 43°15.3' | 124°32.2' | 11.9 | 32.02 |
| May 20 | 0340 | 43°20.5' | 126°32.0' | 12.3 | 32.66 |
| May 20 | 0740 | 43°20.5' | 126°59.7' | 12.4 | -- |
| May 20 | 1500 | 43°22.5' | 127°31.0' | 11.7 | 32.64 |
| May 20 | 1600 | 43°26.5' | 127°21.0' | 12.2 | 32.69 |
| May 20 | 1700 | 43°30.4' | 127°11.0' | 12.2 | 32.70 |
| May 20 | 1800 | 43°33.2' | 127°00.5' | 12.3 | 32.72 |
| May 20 | 1900 | 43°37.6' | 126°51.7' | 12.3 | 32.70 |
| May 20 | 2000 | 43°40.2' | 126°40.7' | 12.3 | 32.70 |
| May 20 | 2100 | 43°46.2' | 126°37.9' | 12.5 | 32.72 |
| May 20 | 2200 | 43°51.6' | 126°29.7' | 12.6 | 32.69 |
| May 20 | 2300 | 43°55.5' | 126°20.3' | 12.6 | 32.68 |
| May 21 | 0000 | 44°00.0' | 126°09.2' | 12.8 | 32.65 |
| May 21 | 0100 | 44°05.2' | 125°59.4' | 12.6 | 32.67 |
| May 21 | 0200 | 44°10.0' | 125°49.0' | 12.6 | 32.67 |
| May 21 | 0300 | 44°15.5' | 125°40.0' | 12.9 | 32.66 |
| May 21 | 0400 | 44°21.0' | 125°30.0' | 13.3 | 32.56 |
| May 21 | 0500 | 44°26.0' | 125°19.0' | 13.5 | 32.27 |
| May 21 | 0600 | 44°33.0' | 125°08.5' | 12.9 | 32.17 |
| May 21 | 0700 | 44°37.5' | 124°58.5' | 13.1 | 31.70 |
| May 25 | 1444 | 44°39.1' | 125°21.3' | 12.5 | 31.91 |
| May 25 | 2000 | 44°40.5' | 125°45.8' | 12.2 | 32.47 |
| May 26 | 0021 | 44°04.0' | 126°18.0' | 12.0 | 32.71 |
| May 26 | 0630 | 44°39.7' | 126°45.0' | 12.1 | 32.63 |
| May 26 | 0937 | 44°38.9' | 127°12.0' | 12.3 | 32.64 |
| | | | | | |
| July 17 | 0000 | 44°39.1' | 125°21.0' | 16.6 | -- |
| July 17 | 1315 | 44°39.1' | 125°49.2' | 16.6 | -- |
| July 17 | 1815 | 44°39.1' | 126°17.1' | 16.6 | 31.134 |
| July 17 | 2100 | 44°39.9' | 126°44.8' | 16.7 | 31.555 |
| July 18 | 0140 | 44°39.1' | 127°12.8' | 16.6 | 31.583 |
| July 18 | 0653 | 44°39.8' | 127°40.8' | 16.6 | 31.562 |
| July 18 | 2010 | 44°29.2' | 126°25.1' | 17.1 | 31.465 |
| July 18 | 2127 | 44°21.5' | 126°20.1' | 17.0 | 31.396 |
| July 18 | 2250 | 44°11.0' | 126°11.0' | 17.2 | 30.835 |
| July 19 | 0250 | 44°00.0' | 125°50.1' | 16.7 | -- |
| July 19 | 0715 | 44°00.0' | 125°22.5' | 16.2 | 31.171 |
| July 19 | 1400 | 43°52.0' | 124°38.5' | 15.8 | 31.464 |
| July 19 | 1500 | 43°43.0' | 124°33.9' | 15.1 | 31.65' |
| July 19 | 1600 | 43°34.2' | 124°29.5' | 13.4 | 32.067 |
| July 19 | 1700 | 43°24.9' | 124°23.7' | 11.7 | 33.104 |
| July 19 | 1800 | Buoy No. 12 Coos Bay | | 9.9 | 33.441 |
| July 20 | 1557 | 43°20.5' | 125°37.6' | 16.3 | 31.405 |
| July 20 | 2133 | 43°20.5' | 126°05.4' | 16.9 | -- |
| July 21 | 0232 | 43°20.5' | 126°31.7' | 17.2 | 31.440 |
| July 21 | 0640 | 43°20.5' | 126°59.0' | 17.0 | -- |
| July 21 | 1111 | 43°18.8' | 127°25.0' | 16.6 | 31.860 |
| July 21 | 1510 | 43°20.5' | 127°53.8' | 16.6 | -- |
| July 21 | 1925 | 43°19.4' | 127°50.9' | 16.6 | 32.308 |
| July 21 | 2106 | 43°19.9' | 127°26.1' | 16.5 | 32.030 |
| July 21 | 2245 | 43°18.2' | 127°23.0' | 16.9 | 31.874 |
| July 22 | 0024 | 43°18.0' | 127°13.9' | 16.7 | 31.706 |
| July 22 | 0135 | 43°16.2' | 126°58.2' | 16.9 | 31.769 |
| July 22 | 0250 | 43°12.5' | 126°46.0' | 16.8 | 31.716 |
| July 22 | 0400 | 43°09.3' | 126°33.4' | 16.9 | 31.520 |
| July 22 | 0505 | 43°05.7' | 126°20.0' | 16.6 | 31.301 |
| July 22 | 0615 | 43°02.0' | 126°07.5' | 16.8 | 31.163 |
| July 22 | 1050 | 42°59.0' | 125°43.5' | 16.4 | 31.685 |
| July 22 | 1515 | 43°00.0' | 125°17.0' | 15.5 | 31.546 |
| July 22 | 2013 | 43°00.6' | 124°47.4' | 16.1 | 31.638 |
| July 22 | 2300 | 42°53.8' | 124°38.5' | 12.3 | 33.217 |
| July 23 | 0000 | 42°43.2' | 124°44.8' | 12.2 | 33.025 |
| July 23 | 0100 | 42°35.8' | 124°43.5' | 12.8 | 33.074 |

| Date 1963 | Time GMT | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| July 23 | 0200 | 42°26.9' | 124°37.4' | 13.3 | 32.957 |
| July 23 | 0300 | 42°16.8' | 124°30.9' | 13.1 | 33.129 |
| July 23 | 0400 | 42°07.5' | 124°25.8' | 11.1 | 33.515 |
| July 24 | 0545 | 42°00.0' | 125°26.8' | 16.2 | 32.214 |
| July 24 | 0945 | 42°00.5' | 125°53.0' | 15.8 | 32.391 |
| July 24 | 1600 | 42°00.0' | 126°19.6' | 16.1 | 32.522 |
| July 24 | 2005 | 42°01.9' | 126°44.0' | 16.9 | 32.396 |
| July 25 | 0852 | 41°58.9' | 127°13.0' | 16.5 | -- |
| July 25 | 1628 | 42°00.0' | 127°39.6' | 16.6 | -- |
| July 25 | 2100 | 42°07.0' | 127°11.2' | 17.0 | 32.526 |
| July 25 | 2300 | 42°12.9' | 126°56.1' | 17.0 | 32.567 |
| July 26 | 0100 | 42°18.2' | 126°41.0' | 17.0 | 32.191 |
| July 26 | 0300 | 42°24.3' | 126°33.0' | 16.9 | 31.883 |
| July 26 | 2330 | 43°36.0' | 124°35.0' | 13.8 | 32.028 |
| July 27 | 0030 | 43°39.2' | 124°31.0' | 12.9 | 32.178 |
| July 27 | 0130 | 43°42.7' | 124°29.0' | 12.8 | 32.352 |
| July 27 | 0230 | 43°48.1' | 124°24.6' | 12.4 | 32.409 |
| July 27 | 0330 | 43°53.7' | 124°29.0' | 11.9 | 32.709 |
| July 27 | 0430 | 44°00.3' | 124°19.3' | 12.5 | 32.706 |
| July 27 | 0530 | 44°07.9' | 124°15.0' | 12.7 | 32.748 |
| July 27 | 0630 | 44°15.2' | 124°12.7' | 11.9 | 33.007 |
| July 27 | 0730 | 44°22.6' | 124°10.8' | 12.1 | 33.038 |
| July 27 | 0830 | 44°39.9' | 124°08.6' | 12.0 | 33.158 |
| | | | | | |
| Sept 10 | 2003 | 44°21.9' | 124°10.9' | 16.15 | 32.824 |
| Sept 10 | 2103 | 44°14.2' | 124°13.3' | 16.0 | 32.897 |
| Sept 10 | 2204 | 44°05.9' | 124°15.7' | 14.8 | 32.923 |
| Sept 10 | 0100 | 43°57.5' | 124°18.1' | 16.6 | 32.059 |
| Sept 11 | 0001 | 43°48.5' | 124°22.1' | 17.1 | 32.240 |
| Sept 11 | 0105 | 43°40.2' | 124°23.6' | 16.4 | 32.373 |
| Sept 11 | 0203 | 43°31.4' | 124°25.7' | 14.0 | 33.053 |
| Sept 11 | 0302 | 43°22.7' | 124°27.6' | 14.8 | 33.058 |
| Sept 11 | 2055 | 43°20.4' | 125°37.2' | 17.2 | 31.892 |
| Sept 12 | 0232 | 43°20.5' | 126°04.8' | 19.1 | 31.624 |
| Sept 12 | 0820 | 43°20.3' | 126°32.3' | 18.8 | 31.910 |
| Sept 12 | 1205 | 43°21.8' | 127°01.8' | 18.5 | 31.831 |
| Sept 12 | 1705 | 43°20.5' | 127°26.6' | 18.8 | 31.787 |
| Sept 12 | 2223 | 43°20.5' | 127°53.9' | 20.0 | 31.535 |
| Sept 13 | 0151 | 43°10.7' | 128°05.7' | 20.0 | 31.459 |
| Sept 13 | 0305 | 43°00.5' | 128°04.2' | 19.8 | 31.482 |
| Sept 13 | 0416 | 42°50.8' | 128°02.2' | 19.5 | 31.602 |
| Sept 13 | 0805 | 42°30.0' | 127°58.0' | 19.3 | 32.259 |
| Sept 13 | 0929 | 42°20.0' | 127°57.0' | 19.4 | 32.248 |
| Sept 13 | 1050 | 42°10.0' | 127°55.0' | 19.4 | 32.636 |
| Sept 13 | 2010 | 42°00.0' | 127°40.0' | 19.4 | 32.696 |
| Sept 13 | 0033 | 42°00.0' | 127°12.8' | 19.4 | 32.345 |
| Sept 14 | 0440 | 42°00.0' | 126°46.0' | 19.1 | 31.793 |
| Sept 14 | 0900 | 42°00.0' | 126°20.0' | 19.2 | 31.979 |
| Sept 14 | 1847 | 42°00.0' | 125°53.5' | 19.2 | 31.542 |
| Sept 15 | 0009 | 42°00.0' | 125°27.0' | 15.1 | 33.082 |
| Sept 15 | 2103 | 42°13.2' | 124°55.0' | 14.9 | 33.042 |
| Sept 15 | 2204 | 42°21.5' | 124°52.5' | 15.4 | 33.720 |
| Sept 15 | 2302 | 42°28.5' | 124°49.7' | 15.8 | 32.539 |
| Sept 16 | 0000 | 42°35.7' | 124°49.2' | 15.9 | 32.536 |
| Sept 16 | 0100 | 42°43.5' | 124°48.4' | 15.0 | 32.647 |
| Sept 16 | 0200 | 42°51.8' | 124°47.5' | 13.4 | 33.349 |
| Sept 16 | 0305 | 43°01.0' | 124°46.0' | 15.1 | 32.399 |
| Sept 16 | 0405 | 43°09.5' | 124°44.1' | 15.2 | 32.240 |
| Sept 16 | 0500 | 43°17.0' | 124°42.8' | 15.5 | 32.161 |
| Sept 16 | 0600 | 43°24.9' | 124°39.6' | 14.7 | 32.411 |
| Sept 16 | 0700 | 43°32.6' | 124°37.4' | 14.6 | 32.308 |
| Sept 16 | 0800 | 43°40.9' | 124°34.0' | 15.1 | 32.302 |
| Sept 16 | 0900 | 43°47.6' | 124°31.3' | 15.6 | 32.069 |
| Sept 16 | 1000 | 44°04.4' | 124°29.3' | 14.9 | 31.532 |
| Sept 16 | 1100 | 44°05.6' | 124°26.5' | 14.4 | 31.803 |
| Sept 16 | 1200 | 44°13.7' | 124°23.1' | 14.2 | 32.010 |
| Sept 16 | 1300 | 44°20.7' | 124°21.9 | 15.1 | 32.555 |
| Sept 16 | 1400 | 44°27.7' | 124°15.1' | 15.1 | 32.275 |
| Sept 16 | 1500 | Yaquina Bay Sea Buoy | | 14.8 | 32.167 |
| Sept 19 | 1252 | 44°39.1' | 125°21.0' | 17.3 | 31.598 |
| Sept 19 | 2340 | 44°39.1' | 126°16.8' | 17.1 | 31.641 |
| Sept 20 | 0420 | 44°39.1' | 126°45.0' | 18.2 | 31.550 |
| Sept 20 | 0615 | 44°39.1' | 126°58.7' | 18.3 | 31.521 |
| Sept 20 | 0908 | 44°39.1' | 127°12.5' | 17.9 | 31.665 |
| Sept 20 | 1323 | 44°39.1' | 127°40.6' | 17.3 | 31.939 |
| Sept 20 | 1807 | 44°49.7' | 127°55.8' | 18.4 | 32.299 |
| Sept 20 | 1930 | 45°00.5' | 127°53.9' | 18.4 | 32.225 |
| Sept 20 | 2320 | 45°21.5' | 127°69.0' | 18.2 | 32.297 |

| Date 1963 | Time GMT | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| Sept 21 | 0035 | 45°36.9' | 128°01.0' | 18.2 | 32.341 |
| Sept 21 | 0404 | 45°53.3' | 128°02.5' | 18.1 | 32.449 |
| Sept 21 | 0524 | 46°04.0' | 128°02.8' | 18.1 | 32.332 |
| Sept 21 | 1107 | 46°14.9' | 127°49.0' | 18.1 | 32.329 |
| Sept 21 | 1510 | 46°14.4' | 127°20.6' | 17.9 | 31.856 |
| Sept 21 | 1905 | 46°54.5' | 126°51.2' | 18.2 | 31.836 |
| Sept 21 | 2240 | 46°14.5' | 126°23.0' | 17.9 | 31.414 |
| Sept 22 | 0302 | 46°14.4' | 125°53.8' | 17.7 | 31.858 |
| Sept 22 | 0905 | 46°14.5' | 125°24.9' | 17.5 | 31.918 |
| Sept 22 | 2200 | 46°07.6' | 124°19.4' | 14.8 | 27.928 |
| Sept 22 | 2300 | 46°01.7' | 124°23.9' | 15.0 | 29.444 |
| Sept 23 | 0000 | 45°53.5' | 124°33.0' | 15.9 | 30.756 |
| Sept 23 | 0100 | 45°49.3' | 124°37.5' | 16.4 | 30.797 |
| Sept 23 | 0200 | 45°42.4' | 124°43.4' | 16.9 | 31.267 |
| Sept 23 | 0300 | 45°37.0' | 124°45.1' | 17.0 | 31.307 |
| Sept 23 | 0400 | 45°30.3' | 124°40.3' | 17.2 | 31.373 |
| Sept 23 | 0500 | 45°22.8' | 124°34.2' | 17.1 | 31.801 |
| Sept 23 | 0600 | 45°15.0' | 124°29.8' | 17.6 | 31.773 |
| Sept 23 | 0700 | 45°11.4' | 124°25.0' | 16.8 | 31.193 |
| Sept 23 | 0800 | 45°00.5' | 124°20.4' | 15.9 | 30.960 |
| Sept 23 | 0900 | 44°52.5' | 124°15.4' | 14.7 | 31.404 |
| Sept 23 | 1000 | 43°46.4' | 124°14.2' | 14.9 | 31.433 |
| Sept 25 | 2050 | 44°59.0' | 124°03.2' | 15.65 | 32.471 |
| Sept 25 | 2118 | 44°59.0' | 124°07.4' | 16.10 | 32.158 |
| Sept 25 | 2154 | 44°59.0' | 124°11.9' | 16.15 | 31.520 |
| Sept 25 | 2219 | 44°59.0' | 124°15.8' | 16.60 | 30.964 |
| Sept 25 | 2250 | 44°59.0' | 124°20.0' | 17.00 | 30.966 |
| Sept 25 | 2320 | 44°59.0' | 124°24.2' | 17.55 | 30.866 |
| Sept 25 | 2350 | 44°59.0' | 124°28.5' | 17.42 | 30.772 |
| Sept 26 | 0030 | 45°02.0' | 124°32.0' | 17.95 | 31.775 |
| Sept 26 | 0105 | 45°02.0' | 124°27.8' | 17.80 | 31.431 |
| Sept 26 | 0139 | 45°02.0' | 124°23.6' | 17.6 | 31.048 |
| Sept 26 | 0207 | 45°02.0' | 124°19.4' | 17.7 | 31.382 |
| Sept 26 | 0240 | 45°02.0' | 124°15.2' | 17.1 | 30.849 |
| Sept 26 | 0308 | 45°02.0' | 124°10.9' | 15.7 | 31.743 |
| Sept 26 | 0336 | 45°02.0' | 124°06.7' | 15.3 | 32.179 |
| Sept 26 | 0412 | 45°02.5' | 124°02.5' | 14.9 | 32.461 |
| Sept 26 | 0435 | 45°05.5' | 124°01.5' | 14.9 | 32.442 |
| Sept 26 | 0500 | 45°05.5' | 124°05.7' | 15.2 | 32.211 |
| Sept 26 | 0526 | 45°05.5' | 124°09.9' | 15.75 | 31.832 |
| Sept 26 | 0556 | 45°05.5' | 124°14.1' | 16.5 | 30.829 |
| Sept 26 | 0639 | 45°05.5' | 124°18.3' | 16.9 | 30.920 |
| Sept 26 | 0712 | 45°05.5' | 124°22.3' | 16.5 | 30.817 |
| Sept 26 | 0750 | 45°05.5' | 124°26.2' | 16.9 | 31.720 |
| Sept 26 | 0830 | 45°05.2' | 124°31.0' | 16.95 | 31.700 |
| Sept 26 | 0910 | 45°05.3' | 124°35.1' | 17.0 | 31.736 |
| Sept 26 | 0947 | 45°08.0' | 124°34.0' | 17.3 | 31.825 |
| Sept 26 | 1020 | 45°08.3' | 124°30.2' | 16.7 | 31.353 |
| Sept 26 | 1148 | 45°08.2' | 124°25.4' | 16.45 | 31.290 |
| Sept 26 | 1225 | 45°08.3' | 124°21.5' | 16.60 | 31.047 |
| Sept 26 | 1300 | 45°08.3' | 124°17.5' | 16.4 | 30.975 |
| Sept 26 | 1328 | 45°08.3' | 124°13.3' | 15.85 | 31.068 |
| Sept 26 | 1403 | 45°08.3' | 124°09.0' | 15.4 | 32.229 |
| Sept 26 | 1424 | 45°08.3' | 124°04.8' | 15.0 | 32.288 |
| Sept 26 | 1447 | 45°08.3' | 123°59.7' | 14.6 | 32.518 |
| Sept 26 | 1535 | 45°11.0' | 123°59.2' | 14.6 | 32.449 |
| Sept 26 | 1548 | 45°11.0' | 124°00.5' | 14.7 | 32.354 |
| Sept 26 | 1612 | 45°11.0' | 124°04.7' | 15.4 | 32.237 |
| Sept 26 | 1636 | 45°11.0' | 124°08.9' | 15.7 | 31.798 |
| Sept 26 | 1703 | 45°11.0' | 124°13.1' | 15.85 | 31.225 |
| Sept 26 | 1730 | 45°11.0' | 124°17.1' | 16.5 | 30.880 |
| Sept 26 | 1757 | 45°11.0' | 124°21.5' | 17.0 | 31.234 |
| Sept 26 | 1836 | 45°11.0' | 124°25.7' | 17.5 | 31.618 |
| Sept 26 | 1910 | 45°11.0' | 124°29.8' | 17.4 | 31.516 |
| Sept 26 | 1945 | 45°11.0' | 124°34.1' | 17.5 | 31.816 |
| Sept 26 | 2104 | 45°14.0' | 124°21.6' | 17.8 | 31.803 |
| Sept 26 | 2135 | 45°14.0' | 124°17.4' | 17.8 | 30.834 |
| Sept 26 | 2208 | 45°14.0' | 124°13.1' | 17.3 | 30.904 |
| Sept 26 | 2238 | 45°14.0' | 124°09.2' | 16.7 | 31.072 |
| Sept 26 | 2337 | 45°14.0' | 124°04.7' | 16.3 | 31.945 |
| Sept 27 | 0007 | 45°14.0' | 124°00.6' | 15.6 | 32.463 |
| Sept 27 | 0108 | 45°17.0' | 123°59.0' | 15.4 | 32.398 |
| Sept 27 | 0108 | 45°17.0' | 123°59.0' | 15.4 | 32.398 |
| Sept 27 | 0120 | 45°17.0' | 124°01.4' | 15.4 | 32.401 |
| Sept 27 | 0147 | 45°17.0' | 124°05.6' | 15.9 | 32.134 |
| Sept 27 | 0220 | 45°17.0' | 124°09.8' | 15.9 | 31.474 |

| Date 1963 | Time GMT | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| Sept 27 | 0244 | 45°17.0' | 124°14.0' | 16.8 | 30.790 |
| Sept 27 | 0312 | 45°17.0' | 124°18.2' | 16.9 | 30.946 |
| Sept 27 | 0346 | 45°17.0' | 124°22.4' | 17.15 | 31.016 |
| Sept 27 | 0419 | 45°20.0' | 124°22.8' | 17.25 | 30.840 |
| Sept 27 | 0452 | 45°20.0' | 124°18.6' | 16.75 | 30.781 |
| Sept 27 | 0519 | 45°20.0' | 124°14.4' | 16.6 | 30.769 |
| Sept 27 | 0546 | 45°20.0' | 124°10.1' | 15.8 | 31.383 |
| Sept 27 | 0610 | 45°20.0' | 124°05.8' | 15.9 | 32.178 |
| Sept 27 | 0639 | 45°20.0' | 124°01.5' | 15.2 | 32.508 |
| Sept 27 | 0708 | 45°23.0' | 123°59.5' | 15.1 | 32.520 |
| Sept 27 | 0732 | 45°23.0' | 124°03.2' | 15.0 | 32.488 |
| Sept 27 | 0800 | 45°23.0' | 124°07.4' | 15.3 | 31.364 |
| Sept 27 | 0848 | 45°23.0' | 124°11.2' | 16.0 | 30.808 |
| Sept 27 | 0917 | 45°23.0' | 124°16.0' | 16.2 | 30.478 |
| Sept 27 | 0950 | 45°23.0' | 124°20.2' | 16.6 | 30.781 |
| Sept 27 | 1021 | 45°23.0' | 124°24.3' | 16.8 | 30.971 |
| Sept 27 | 1100 | 45°26.0' | 124°26.1' | 16.9 | 30.866 |
| Sept 27 | 1135 | 45°26.0' | 124°21.8 | 16.9 | 30.833 |
| Sept 27 | 1212 | 45°26.0' | 124°17.5' | 16.2 | 30.740 |
| Sept 27 | 1242 | 45°26.0' | 124°13.3' | 15.8 | 31.308 |
| Sept 27 | 1318 | 45°26.0' | 124°09.0' | 15.5 | 32.180 |
| Sept 27 | 1342 | 45°26.0' | 124°04.8' | 15.6 | 32.213 |
| Sept 27 | 1436 | 45°26.0' | 124°00.5' | 14.9 | 32.496 |
| Sept 27 | 1503 | 45°29.0' | 123°59.7' | 14.8 | 32.566 |
| Sept 27 | 1515 | 45°29.0' | 124°00.9' | 15.8 | 32.500 |
| Sept 27 | 1540 | 45°29.0' | 124°05.2' | 15.5 | 32.282 |
| Sept 27 | 1607 | 45°29.0' | 124°09.5' | 15.4 | 32.481 |
| Sept 27 | 1633 | 45°29.0' | 124°13.7' | 16.05 | 30.871 |
| Sept 27 | 1701 | 45°29.0' | 124°18.0' | 16.5 | 31.004 |
| Sept 27 | 1727 | 45°29.0' | 124°22.3' | 16.7 | 31.056 |
| Sept 27 | 1800 | 45°29.0' | 124°26.6' | 16.8 | 31.033 |
| Sept 27 | 1822 | 45°29.0' | 124°30.8' | 17.25 | 31.430 |
| Sept 27 | 1856 | 45°32.0' | 124°31.6' | 17.2 | 31.253 |
| Sept 27 | 1935 | 45°32.0' | 124°27.5' | 16.9 | 31.276 |
| Sept 27 | 2005 | 45°32.0' | 124°23.2' | 16.6 | 30.952 |
| Sept 27 | 2034 | 45°32.0' | 124°19.7' | 16.2 | 30.706 |
| Sept 27 | 2100 | 45°32.0' | 124°14.7' | 16.2 | 31.009 |
| Sept 27 | 2127 | 45°32.0' | 124°10.5' | 15.8 | 32.230 |
| Sept 27 | 2204 | 45°32.0' | 124°06.1' | 15.8 | 32.339 |
| Sept 27 | 2243 | 45°32.0' | 124°01.5' | 15.8 | 32.487 |
| Sept 27 | 2328 | 45°35.0' | 124°58.5' | 15.9 | 32.255 |
| Sept 28 | 0005 | 45°35.0' | 124°02.8' | 15.4 | 32.407 |
| Sept 28 | 0040 | 45°35.0' | 124°07.3' | 15.3 | 32.373 |
| Sept 28 | 0105 | 45°35.0' | 124°11.3' | 15.9 | 31.827 |
| Sept 28 | 0131 | 45°35.0' | 124°15.5' | 16.0 | 30.986 |
| Sept 28 | 0200 | 45°35.0' | 124°19.7' | 16.2 | 30.869 |
| Sept 28 | 0228 | 45°35.0' | 124°23.9' | 16.8 | 31.122 |
| Sept 28 | 0254 | 45°35.0' | 124°28.1' | 17.1 | 31.588 |
| Sept 28 | 0322 | 45°35.0' | 124°32.3' | 17.1 | 31.500 |
| Sept 28 | 0405 | 45°38.0' | 124°38.4' | 16.9 | 31.505 |
| Sept 28 | 0432 | 45°38.0' | 124°34.1' | 16.7 | 31.125 |
| Sept 28 | 0500 | 45°38.0' | 124°29.8' | 16.6 | 31.142 |
| Sept 28 | 0529 | 45°38.0' | 124°25.5' | 17.0 | 31.485 |
| Sept 28 | 0600 | 45°38.0' | 124°21.2' | 16.7 | 31.110 |
| Sept 28 | 0638 | 45°38.0' | 124°16.9 | 16.15 | 30.933 |
| Sept 28 | 0711 | 45°38.0' | 124°12.6' | 16.1 | 30.750 |
| Sept 28 | 0744 | 45°38.0' | 124°08.3' | 15.7 | 32.376 |
| Sept 28 | 0810 | 45°38.0' | 124°04.0' | 15.4 | 32.491 |
| Sept 28 | 0840 | 45°38.0' | 123°59.8' | 15.1 | 32.544 |
| Sept 28 | 0931 | 45°41.0' | 124°00.7' | 14.9 | 32.531 |
| Sept 28 | 1000 | 45°41.0' | 124°05.1' | 15.3 | 32.371 |
| Sept 28 | 1033 | 45°41.0' | 124°09.3' | 15.9 | 30.788 |
| Sept 28 | 1105 | 45°41.0' | 124°13.6' | 15.9 | 30.777 |
| Sept 28 | 1130 | 45°41.0' | 124°17.8' | 16.1 | 30.869 |
| Sept 28 | 1205 | 45°41.0' | 124°22.1' | 16.2 | 30.850 |
| Sept 28 | 1235 | 45°41.0' | 124°26.4' | 16.2 | 29.427 |
| Sept 28 | 1300 | 45°41.0' | 124°30.7' | 16.4 | 29.520 |
| Sept 28 | 1332 | 45°41.0' | 124°35.0' | 16.3 | 29.887 |
| Sept 28 | 1427 | 45°41.0' | 124°39.3' | 16.6 | 30.740 |
| Sept 28 | 1528 | 45°41.0' | 124°43.6' | 16.65 | 31.419 |
| Sept 28 | 1604 | 45°44.0' | 124°46.8' | 17.25 | 31.857 |
| Sept 28 | 1637 | 45°44.0' | 124°42.5' | 17.1 | 31.837 |
| Sept 28 | 1702 | 45°44.0' | 124°38.2' | 16.6 | 30.844 |
| Sept 28 | 1732 | 45°44.0' | 124°33.9' | 16.0 | 29.412 |
| Sept 28 | 1802 | 45°44.0' | 124°29.6' | 16.0 | 28.929 |
| Sept 28 | 1828 | 45°44.0' | 124°25.3' | 16.25 | 28.886 |

| Date 1963 | Time GMT | Latitude | Longitude | Temp. °C | Sal. ‰ |
|---|---|---|---|---|---|
| Sept 28 | 1904 | 45°44.0' | 124°21.0' | 15.8 | 29.053 |
| Sept 28 | 1925 | 45°44.0' | 124°16.8' | 15.8 | 29.459 |
| Sept 28 | 1955 | 45°43.4' | 124°12.5' | 16.2 | 30.816 |
| Sept 28 | 2025 | 45°44.0' | 124°08.2' | 16.3 | 30.785 |
| Sept 28 | 2105 | 45°44.0' | 124°03.9' | 16.2 | 30.964 |
| Sept 28 | 2149 | 45°44.0' | 123°59.6' | 15.9 | 32.448 |
| Sept 28 | 2220 | 45°47.0' | 123°59.7' | 15.9 | 32.231 |
| Sept 28 | 2244 | 45°47.0' | 124°04.0' | 15.7 | 30.872 |
| Sept 28 | 2317 | 45°47.0' | 124°08.3' | 16.2 | 30.819 |
| Sept 28 | 2355 | 45°47.0' | 124°12.6' | 16.4 | 30.193 |
| Sept 29 | 0022 | 45°47.0' | 124°16.9' | 16.5 | 29.146 |
| Sept 29 | 0047 | 45°47.0' | 124°21.2' | 16.6 | 28.823 |
| Sept 29 | 0120 | 45°47.0' | 124°25.5' | 16.5 | 28.758 |
| Sept 29 | 0155 | 45°47.0' | 124°29.8' | 16.0 | 29.860 |
| Sept 29 | 0224 | 45°47.0' | 124°34.1' | 16.6 | 30.026 |
| Sept 29 | 0304 | 45°47.0' | 124°38.4' | 16.3 | 30.902 |
| Sept 29 | 0341 | 45°47.0' | 124°42.7' | 16.5 | 31.756 |
| Sept 29 | 0415 | 45°50.0' | 124°46.4' | 17.2 | 31.811 |
| Sept 29 | 0452 | 45°50.0' | 124°41.1' | 17.2 | 31.835 |
| Sept 29 | 0522 | 45°50.0' | 124°36.8' | 16.5 | 30.217 |
| Sept 29 | 0548 | 45°50.0' | 124°32.5' | 16.1 | 29.806 |
| Sept 29 | 0621 | 45°50.0' | 124°28.3' | 16.2 | 30.261 |
| Sept 29 | 0651 | 45°50.0' | 124°24.0' | 16.1 | 30.240 |
| Sept 29 | 0720 | 45°50.0' | 124°19.7 | 16.1 | 28.865 |
| Sept 29 | 0751 | 45°50.0' | 124°15.4' | 16.0 | 30.228 |
| Sept 29 | 0836 | 45°50.0' | 124°11.1' | 16.2 | 30.838 |
| Sept 29 | 0925 | 45°50.0' | 124°06.8' | 16.0 | 31.314 |
| Sept 29 | 1002 | 45°50.0' | 124°02.5' | 15.6 | 31.676 |
| Sept 29 | 1032 | 45°50.2' | 123°59.4' | 15.4 | 31.674 |
| Sept 29 | 1110 | 45°53.0' | 123°59.6' | 15.2 | 31.839 |
| Sept 29 | 1140 | 45°53.0' | 124°03.9' | 15.2 | 30.975 |
| Sept 29 | 1210 | 45°53.0' | 124°08.1' | 15.4 | 30.610 |
| Sept 29 | 1240 | 45°53.0' | 124°12.4' | 15.7 | 30.271 |
| Sept 29 | 1300 | 45°53.0' | 124°16.6' | 16.3 | 29.824 |
| Sept 29 | 1340 | 45°53.0' | 124°20.8' | 16.1 | 28.510 |
| Sept 29 | 1430 | 45°53.0' | 124°25.6' | 16.0 | 28.975 |
| Sept 29 | 1506 | 45°53.0' | 124°29.4' | 15.9 | 28.815 |
| Sept 29 | 1530 | 45°53.0' | 124°33.6' | 15.7 | 29.584 |
| Sept 29 | 1554 | 45°53.0' | 124°37.8' | 15.8 | 30.156 |
| Sept 29 | 1642 | 45°53.0' | 124°42.0' | 16.2 | 31.764 |
| Sept 29 | 1728 | 45°53.0' | 124°46.2' | 16.9 | 31.629 |
| Sept 29 | 1803 | 45°56.0' | 124°47.2' | 17.1 | 31.720 |
| Sept 29 | 1855 | 45°56.0' | 124°42.9' | 16.8 | 31.733 |
| Sept 29 | 1925 | 45°56.0' | 124°38.6' | 16.8 | 31.737 |
| Sept 29 | 2003 | 45°56.0' | 124°34.3' | 16.8 | 30.959 |
| Sept 29 | 2027 | 45°56.0' | 124°30.0' | 17.1 | 30.969 |
| Sept 29 | 2055 | 45°56.0' | 124°25.7' | 17.1 | 31.106 |
| Sept 29 | 2130 | 45°56.0' | 124°21.5' | 17.2 | 29.514 |
| Sept 29 | 2156 | 45°56.0' | 124°17.2' | 17.3 | 29.113 |
| Sept 29 | 2230 | 45°56.0' | 124°12.9' | 17.5 | 28.964 |
| Sept 29 | 2302 | 45°56.0' | 124°08.6' | 17.0 | 30.430 |
| Sept 29 | 2343 | 45°56.0' | 124°04.3' | 16.8 | 31.462 |
| Sept 30 | 0005 | 45°56.0' | 124°01.0' | 16.8 | 31.673 |
| Sept 30 | 0040 | 45°59.0' | 124°00.1' | 16.8 | 31.454 |
| Sept 30 | 0101 | 45°59.0' | 124°04.4' | 16.9 | 31.477 |
| Sept 30 | 0128 | 45°59.0' | 124°08.6' | 17.1 | 30.953 |
| Sept 30 | 0157 | 45°59.0' | 124°12.9' | 16.8 | 29.439 |
| Sept 30 | 0228 | 45°59.0' | 124°17.2' | 16.5 | 28.983 |
| Sept 30 | 0251 | 45°59.0' | 124°21.5' | 16.6 | 30.439 |
| Sept 30 | 0324 | 45°59.0' | 124°25.8' | 16.1 | 30.574 |
| Sept 30 | 0353 | 45°59.0' | 124°30.1' | 16.4 | 29.680 |
| Sept 30 | 0422 | 45°59.0' | 124°34.4' | 16.1 | 30.454 |
| Sept 30 | 0457 | 45°59.0' | 124°38.7' | 17.0 | 31.738 |
| Sept 30 | 0524 | 45°59.0' | 124°43.0' | 17.1 | 31.632 |
| Sept 30 | 0555 | 45°59.0' | 124°47.3' | 17.2 | 31.589 |
| Sept 30 | 0628 | 46°02.0' | 124°46.2' | 17.1 | 31.604 |
| Sept 30 | 0720 | 46°02.0' | 124°41.9' | 16.9 | 31.778 |
| Sept 30 | 0800 | 46°02.0' | 124°37.6' | 16.2 | 30.024 |
| Sept 30 | 0821 | 46°02.0' | 124°33.3' | 16.1 | 30.648 |
| Sept 30 | 0845 | 46°02.0' | 124°29.0' | 16.1 | 29.984 |
| Sept 30 | 0915 | 46°02.0' | 124°24.8' | 16.3 | 30.213 |
| Sept 30 | 0940 | 46°02.0' | 124°20.5' | 16.2 | 30.243 |
| Sept 30 | 1008 | 46°02.0' | 124°16.2' | 16.1 | 28.955 |
| Sept 30 | 1030 | 46°02.0' | 124°11.9' | 16.2 | 29.062 |
| Sept 30 | 1115 | 46°02.0' | 124°07.6' | 15.9 | 30.590 |
| Sept 30 | 1148 | 46°02.0' | 124°03.3' | 15.7 | 31.500 |
| Sept 30 | 1210 | 46°02.0' | 123°59.0' | 15.2 | 31.501 |
| Nov 21 | 1851 | 44°39.1' | 125°21.0' | 11.2 | 32.23 |
| Nov 30 | 1320 | 44°39.1' | 126°16.8' | 11.6 | 32.33 |
| Nov 30 | 1635 | 44°39.1' | 126°45.0' | 11.6 | -- |
| Nov 30 | 2130 | 44°39.1' | 127°12.8' | 11.9 | 32.51 |
| Dec 1 | 0245 | 44°29.1' | 127°26.6' | 11.9 | 32.49 |
| Dec 1 | 0840 | 43°59.7' | 127°13.2' | 12.3 | -- |
| Dec 1 | 1310 | 43°59.7' | 126°45.6' | 12.0 | 32.45 |
| Dec 1 | 1745 | 43°59.7' | 126°17.8' | 12.2 | 32.45 |
| Dec 1 | 2115 | 43°59.7' | 125°49.8' | 12.2 | -- |
| Dec 2 | 0237 | 43°59.7' | 125°22.3' | 12.1 | 32.37 |

| Date 1964 | Time GMT | Latitude | Longitude | Temp°C | Sal ‰ |
|---|---|---|---|---|---|
| Feb 2 | 2300 | 44°39.1' | 124°10.6' | 10.2 | --- |
| Feb 3 | 0015 | 44°39.1' | 124°24.7' | 10.7 | --- |
| Feb 3 | 0400 | 44°39.1' | 124°38.9' | 10.1 | --- |
| Feb 3 | 0715 | 44°39.2' | 124°52.7' | 10.3 | --- |
| Feb 3 | 1000 | 44°39.1' | 125°06.8' | 10.3 | --- |
| Feb 3 | 1302 | 44°39.1' | 125°21.0' | 9.6 | 32.456 |
| Feb 3 | 1510 | 44°39.1' | 125°35.0' | 10.0 | --- |
| Feb 3 | 1740 | 44°39.1' | 125°49.2' | 10.2 | 32.496 |
| Feb 3 | 1900 | 44°39.1' | 125°35.0' | 9.6 | --- |
| Feb 3 | 2200 | 44°39.1' | 126°17.0' | 10.2 | 32.424 |
| Feb 3 | 2330 | 44°39.1' | 126°30.8' | 9.8 | --- |
| Feb 4 | 0230 | 44°39.1' | 126°44.8' | 10.1 | 32.655 |
| Feb 4 | 0355 | 44°39.3' | 126°58.8' | 9.9 | --- |
| Feb 4 | 0630 | 44°39.2' | 127°12.8' | --- | 32.453 |
| Feb 4 | 0800 | 44°39.1' | 127°27.8' | 9.7 | --- |
| Feb 4 | 1130 | 44°39.1' | 127°40.0' | 9.6 | 32.473 |
| Feb 4 | 1539 | 44°29.2' | 127°56.3' | 9.2 | 32.491 |
| Feb 4 | 1705 | 44°19.6' | 127°58.2' | 8.8 | 32.545 |
| Feb 4 | 1820 | 44°09.6' | 128°00.0' | 8.9 | 32.631 |
| Feb 4 | 2010 | 43°59.6' | 128°01.5' | 10.0 | 32.544 |
| Feb 4 | 2145 | 43°49.5' | 128°03.0' | 10.4 | 32.619 |
| Feb 4 | 2245 | 43°39.8' | 128°04.0' | 10.4 | 32.545 |
| Feb 5 | 0015 | 43°30.0' | 128°04.5' | 10.3 | 32.626 |
| Feb 5 | 0420 | 43°20.5' | 127°54.0' | 9.8 | 32.570 |
| Feb 5 | 0605 | 43°20.5' | 127°40.0' | 9.7 | --- |
| Feb 5 | 0900 | 43°20.5' | 127°27.0' | 10.3 | 32.620 |
| Feb 5 | 1045 | 43°20.5' | 127°13.0' | 10.3 | --- |
| Feb 5 | 1545 | 43°20.5' | 126°45.7' | 9.6 | --- |
| Feb 5 | 1830 | 43°20.5' | 126°32.0' | 9.8 | 32.567 |
| Feb 5 | 2030 | 43°20.5' | 126°18.9' | 10.2 | --- |
| Feb 6 | 0130 | 43°20.5' | 125°51.6' | 9.9 | --- |
| Feb 6 | 0445 | 43°20.5' | 125°37.8' | 9.9 | --- |
| Feb 6 | 0630 | 43°20.5' | 125°24.1' | 9.8 | --- |
| Feb 6 | 1000 | 43°20.5' | 125°10.4' | 10.2 | --- |
| Feb 6 | 1345 | 43°20.5' | 124°56.7' | 10.5 | --- |
| Feb 6 | 1620 | 43°20.5' | 124°43.1' | 10.5 | --- |
| Feb 6 | 2000 | 43°24.5' | 124°23.2' | 10.3 | 32.044 |
| Feb 6 | 2100 | 43°30.6' | 124°20.0' | 10.4 | 32.325 |
| Feb 6 | 2200 | 43°37.3' | 124°16.7' | 10.0 | 28.393 |
| Feb 6 | 2300 | 43°42.9' | 124°14.0' | 10.3 | 32.363 |
| Feb 6 | 2400 | 43°50.6' | 124°13.0' | 10.4 | 32.528 |
| Feb 7 | 0100 | 43°57.3' | 124°12.9' | 10.3 | 31.736 |
| Feb 7 | 0200 | 44°04.9' | 124°12.8' | 10.4 | 32.395 |
| Feb 7 | 0300 | 44°12.4' | 124°12.7' | 10.3 | 32.203 |
| Feb 7 | 0400 | 44°20.2' | 124°13.1' | 10.1 | 31.496 |
| Feb 7 | 0500 | 44°28.2' | 124°11.8' | 9.8 | 30.924 |
| Feb 7 | 0600 | 44°35.1' | 124°09.8' | 10.0 | 31.853 |
| | | | | | |
| July 5 | 1900 | 45°00' | 125°01' | 15.4 | 26.646 |
| July 6 | 0200 | 45°00' | 125°29' | 16.0 | 26.807 |
| July 6 | 0430 | 45°00' | 126°00' | 16.3 | 23.358 |
| July 6 | 1730 | 44°59' | 126°30' | 16.4 | 23.529 |
| July 6 | 2045 | 44°59' | 126°58' | 15.8 | 26.907 |
| July 7 | 0005 | 44°39' | 127°00' | 14.9 | 31.955 |
| July 7 | 0310 | 44°18' | 127°00' | 15.4 | 31.639 |
| July 7 | 1530 | 44°00' | 127°01' | 14.8 | 32.264 |
| July 7 | 1825 | 43°39' | 126°59' | 15.0 | 32.350 |
| July 7 | 2115 | 43°20' | 127°01' | 14.9 | 32.432 |
| July 10 | 1510 | 43°01' | 127°00' | 15.4 | 32.105 |
| July 10 | 1745 | 43°41' | 127°00' | 16.2 | 32.140 |
| July 10 | 2040 | 42°17' | 127°00' | 16.0 | 32.252 |
| July 10 | 2245 | 42°01' | 126°59' | 16.2 | 32.275 |
| July 11 | 0230 | 41°30' | 127°00' | 15.9 | 32.242 |
| July 11 | 0405 | 41°29' | 126°31' | 15.6 | 31.935 |
| July 11 | 1630 | 41°30' | 125°56' | 14.0 | 32.807 |
| July 11 | 2000 | 41°31' | 125°27' | 13.6 | 33.208 |
| July 11 | 2340 | 41°31' | 125°00' | 12.4 | 33.356 |
| July 12 | 0405 | 41°45' | 125°23' | 13.3 | 32.581 |
| July 12 | 1635 | 42°01' | 125°46' | 14.6 | 31.977 |
| July 12 | 2120 | 42°14' | 126°08' | 15.7 | 31.807 |
| July 13 | 0300 | 42°34' | 126°28' | 16.0 | 31.624 |
| July 13 | 1545 | 42°45' | 126°05' | 16.1 | 31.408 |
| July 13 | 1855 | 43°01' | 125°44' | 15.8 | 31.515 |
| July 14 | 0010 | 43°14' | 125°23' | 14.3 | 31.872 |
| July 14 | 0300 | 43°29' | 124°59' | 15.6 | 30.667 |
| July 14 | 1355 | 43°44' | 125°22' | 16.4 | 30.328 |
| July 14 | 1720 | 44°00' | 125°45' | 16.4 | 29.725 |
| July 14 | 2100 | 44°15' | 126°08' | 17.0 | 30.659 |
| July 15 | 0005 | 44°30' | 126°30' | 17.5 | 27.799 |
| July 15 | 0400 | 44°45' | 126°08' | 17.0 | 27.579 |
| July 15 | 1455 | 45°00' | 125°45' | 16.1 | 28.719 |
| July 15 | 1740 | 45°15' | 125°22' | 16.6 | 27.416 |
| July 15 | 2010 | 45°32' | 125°00' | 16.2 | 29.852 |

| Date 1964 | Time GMT | Latitude | Longitude | Temp°C | Sal ‰ |
|---|---|---|---|---|---|
| Apr 1 | 1710 | 44°25.7' | 126°47.4' | 9.4 | |
| Apr 1 | 2030 | 44°25.8' | 126°48.2' | 9.7 | |
| Apr 1 | 2400 | 44°26.0' | 126°46.8' | 9.7 | |
| Apr 2 | 0400 | 44°26.7' | 126°48.8' | 9.4 | |
| Apr 2 | 0500 | 44°26.7' | 126°48.8' | 9.2 | |
| Apr 2 | 0800 | 44°27.5' | 126°48.4' | 9.0 | |
| Apr 2 | 1100 | 44°28.5' | 126°49.3' | 9.6 | |
| Apr 2 | 1400 | 44°28.5' | 126°49.4' | 9.6 | |
| Apr 2 | 1700 | 44°32.0' | 127°04.5' | 8.5 | |
| Apr 2 | 1830 | 44°32.8' | 127°11.8' | 7.9 | |
| Apr 2 | 2400 | 44°32.9' | 127°11.0' | 8.5 | |
| Apr 3 | 0430 | 44°31.7' | 127°09.1' | 9.0 | |
| Apr 4 | 0030 | 44°32.1' | 127°10.8' | 8.7 | |
| Apr 9 | 0800 | 44°38.0' | 125°22.0' | 10.5 | |
| Apr 9 | 1300 | 44°26.0' | 125°24.6' | 9.9 | |
| Apr 9 | 2400 | 44°36.3' | 125°49.3' | 9.7 | |
| Apr 10 | 1945 | 44°34.0' | 126°16.0' | 10.4 | |
| Apr 10 | 2145 | 44°36.0' | 125°46.0' | --- | |
| Apr 10 | 2345 | 44°36.8' | 125°17.7' | 10.1 | |
| Apr 10 | 0245 | 44°36.1' | 124°56.2' | 9.7 | |
| Apr 11 | 0345 | 44°34.0' | 124°56.4' | 9.8 | |
| Apr 11 | 1000 | 44°35.0' | 124°57.5' | 9.3 | |
| Apr 10 | 2135 | 43°20.4' | 125°37.9' | 9.8 | 32.274 |
| Apr 11 | 0130 | 43°20.5' | 126°05.0' | 10.0 | 32.481 |
| Apr 11 | 0745 | 43°20.4' | 126°33.1' | 10.0 | --- |
| Apr 11 | 1207 | 43°20.4' | 126°59.0' | 9.7 | 32.628 |
| Apr 11 | 1715 | 43°20.5' | 127°26.7' | 9.7 | 32.655 |
| Apr 11 | 2240 | 43°20.4' | 127°54.0' | 10.0 | 32.737 |
| Apr 12 | 0436 | 43°10.5' | 128°06.0' | 10.2 | 32.799 |
| Apr 12 | 0555 | 43°00.6' | 128°04.0' | 10.1 | 32.765 |
| Apr 12 | 0723 | 42°50.6' | 128°02.0' | 10.3 | 32.753 |
| Apr 12 | 1124 | 42°30.2' | 128°02.0' | 10.5 | 32.781 |
| Apr 12 | 1250 | 42°20.0' | 127°56.2' | 10.6 | 32.779 |
| Apr 12 | 1400 | 42°10.0' | 127°54.7' | 10.2 | 32.745 |
| Apr 12 | 1750 | 42°00.0' | 127°40.0' | 10.2 | 32.695 |
| Apr 13 | 1723 | 42°00.0' | 126°46.5' | 10.2 | 32.457 |
| Apr 13 | 2215 | 42°00.0' | 126°19.6' | 10.4 | 32.310 |
| Apr 14 | 0438 | 42°00.0' | 125°48.3' | 10.3 | 32.372 |
| Apr 14 | 1105 | 42°01.0' | 125°26.1' | 10.2 | 32.109 |
| Apr 16 | 0300 | 43°13.5' | 124°28.0' | 9.7 | 31.270 |
| Apr 16 | 0400 | 43°20.2' | 124°26.2' | 9.7 | 30.930 |
| Apr 16 | 0500 | 43°26.7' | 124°25.0' | 9.5 | 30.200 |
| Apr 16 | 0600 | 43°32.6' | 124°23.7' | 9.9 | 29.838 |
| Apr 16 | 0700 | 43°38.2' | 124°22.5' | 9.7 | 29.706 |
| Apr 16 | 0800 | 43°44.4' | 124°22.1' | 9.6 | 29.874 |
| Apr 16 | 0900 | 43°51.0' | 124°19.1' | 9.5 | 29.985 |
| Apr 16 | 1000 | 43°57.8' | 124°17.4' | 10.0 | 29.749 |
| Apr 16 | 1100 | 44°03.7' | 124°15.8' | 9.6 | 29.779 |
| Apr 16 | 1200 | 44°10.0' | 124°14.1' | 9.4 | 29.597 |
| Apr 16 | 1300 | 44°15.2' | 124°13.4' | 9.6 | 30.702 |
| Apr 16 | 1500 | 44°28.7' | 124°10.4' | 9.2 | 30.187 |
| Apr 18 | 1300 | 44°39.1' | 125°21.0' | 9.5 | 31.926 |
| Apr 18 | 1700 | 44°39.1' | 125°49.7' | 9.6 | --- |
| Apr 19 | 0315 | 44°39.1' | 126°45.0' | 9.7 | 32.389 |
| Apr 19 | 1200 | 44°39.1' | 127°40.9' | 9.5 | 32.612 |
| Apr 19 | 1830 | 44°49.7' | 127°56.0' | 9.3 | 32.588 |
| Apr 19 | 2045 | 45°00.2' | 127°57.0' | 9.0 | 32.598 |
| Apr 20 | 0225 | 45°21.4' | 127°59.0' | 9.0 | 32.577 |
| Apr 20 | 0415 | 45°32.0' | 128°00.5' | 9.1 | 32.486 |
| Apr 20 | 0930 | 45°53.5' | 128°02.5' | 8.8 | 32.439 |
| Apr 20 | 1135 | 46°03.9' | 128°03.1' | 8.8 | 32.445 |
| Apr 20 | 1645 | 46°14.4' | 127°49.3' | 8.6 | 32.545 |
| Apr 20 | 2225 | 46°14.3' | 127°20.0' | 8.9 | 32.523 |
| Apr 21 | 0220 | 46°14.4' | 126°51.1' | 8.6 | 32.342 |
| Apr 21 | 0610 | 46°14.4' | 126°22.3' | 8.5 | 32.347 |
| Apr 21 | 1015 | 46°14.4' | 125°53.2' | 9.0 | --- |
| Apr 22 | 0600 | 46°14.4' | 125°24.6' | 9.0 | 32.065 |
| Apr 22 | 1700 | 45°44.3' | 124°28.1' | 9.3 | 30.641 |
| Apr 22 | 1800 | 45°37.9' | 124°21.5' | 9.3 | 30.351 |
| Apr 22 | 1900 | 45°31.6' | 124°14.6' | 9.3 | 29.850 |
| Apr 22 | 2000 | 45°24.9' | 124°06.5' | 9.4 | 30.461 |
| Apr 22 | 2100 | 45°16.5' | 124°08.0' | 9.3 | 29.875 |
| Apr 22 | 2200 | 45°08.5' | 124°08.4' | 9.4 | 30.174 |
| Apr 22 | 2300 | 44°58.6' | 124°08.4' | 9.6 | 30.504 |
| Apr 22 | 2400 | 44°48.0' | 124°09.0' | 9.5 | 31.506 |
| Apr 20 | 0855 | 43°20.0' | 126°58.9' | 16.6 | 31.553 |
| Apr 20 | 1500 | 43°20.5' | 127°26.7' | 16.3 | 32.293 |
| Apr 20 | 1912 | 43°20.5' | 127°54.0' | 16.4 | 32.296 |
| Apr 20 | 2308 | 43°29.9' | 128°04.2' | 16.0 | 32.497 |
| Apr 21 | 0525 | 43°47.0' | 127°45.9' | 15.8 | 32.595 |

| Date 1964 | Time GMT | Latitude | Longitude | Temp°C | Sal ‰ |
|---|---|---|---|---|---|
| Apr 21 | 0850 | 43°47.0' | 127°18.1' | 15.8 | 32.509 |
| Apr 21 | 1320 | 43°47.0' | 126°50.9' | 16.0 | 32.106 |
| Apr 21 | 1658 | 43°47.0' | 126°23.5' | 17.1 | 29.820 |
| Apr 21 | 2050 | 43°47.0' | 125°56.7' | 17.1 | 29.832 |
| Apr 22 | 0045 | 43°47.0' | 125°28.1' | 18.0 | 28.054 |
| Apr 22 | 0835 | 43°57.6' | 124°49.6' | 16.4 | 30.876 |
| Apr 22 | 1025 | 44°08.5' | 124°52.5' | 16.6 | 29.472 |
| Apr 22 | 1632 | 44°19.3' | 125°23.4' | 16.8 | 30.077 |
| Apr 22 | 1945 | 44°19.1' | 125°50.0' | 17.1 | 28.123 |
| Apr 22 | 2320 | 44°19.1' | 126°18.3' | 17.0 | 29.706 |
| Apr 23 | 0248 | 44°19.2' | 126°46.0' | 16.2 | 31.952 |
| Apr 23 | 0600 | 44°19.2' | 127°14.0' | 15.6 | 32.587 |
| | | | | | |
| July 11 | 2100 | 44°45.2' | 124°06.7' | 14.1 | 30.675 |
| July 11 | 2200 | 44°51.8' | 124°05.8' | 13.5 | 30.376 |
| July 11 | 2300 | 44°58.5' | 124°05.0' | 14.8 | 29.255 |
| July 11 | 2400 | 45°04.5' | 124°04.5' | 15.8 | 28.518 |
| July 12 | 0100 | 45°11.2' | 124°03.4' | 14.5 | 29.998 |
| July 12 | 0200 | 45°15.6' | 124°02.9' | 13.1 | 31.069 |
| July 12 | 0300 | 45°20.3' | 124°02.0' | 15.7 | 26.209 |
| July 12 | 0400 | 45°31.5' | 124°01.4' | 15.8 | 27.738 |
| July 12 | 0500 | 45°38.3' | 124°01.6' | 15.8 | 29.332 |
| July 12 | 0700 | 45°45.2' | 124°01.1' | 15.8 | 29.818 |
| July 12 | 0800 | 45°52.8' | 124°04.4' | 15.8 | 28.110 |
| July 12 | 0900 | 45°55.9' | 124°08.3' | 15.8 | 26.558 |
| July 12 | 1000 | 46°07.4' | 124°10.8' | 13.4 | 24.791 |
| July 13 | 0230 | 46°14.4' | 125°25.0' | 16.4 | 31.002 |
| July 13 | 0720 | 46°14.4' | 125°14.4' | 15.2 | 32.154 |
| July 13 | 1330 | 46°15.0' | 126°23.1' | 13.8 | --- |
| July 13 | 1713 | 46°14.4' | 126°51.4' | 15.8 | 32.220 |
| July 13 | 2115 | 46°14.3' | 127°20.2' | 15.1 | 32.193 |
| July 14 | 0115 | 46°14.2' | 127°49.3' | 14.9 | 32.232 |
| July 14 | 0520 | 46°03.8' | 128°03.0' | 14.8 | 32.205 |
| July 14 | 0640 | 45°53.1' | 128°02.8' | 14.8 | 32.256 |
| July 14 | 1015 | 45°31.9' | 128°00.4' | 14.9 | 32.454 |
| July 14 | 1150 | 45°21.1' | 127°59.2' | 15.0 | 32.468 |
| July 14 | 1540 | 45°00.4' | 127°57.0' | 15.2 | 32.235 |
| July 14 | 1703 | 44°49.7' | 127°55.8' | 15.6 | 32.314 |
| July 14 | 2300 | 44°39.0' | 127°41.0' | 15.8 | 33.055 |
| July 15 | 0247 | 44°39.1' | 127°13.0' | 15.4 | 32.474 |
| July 15 | 0630 | 44°39.1' | 126°45.0' | 16.2 | 30.472 |
| July 15 | 1200 | 44°39.1' | 126°16.9' | 16.6 | 27.383 |
| July 15 | 1709 | 44°39.1' | 125°49.3' | 17.1 | 26.654 |
| July 15 | 2045 | 44°39.2' | 125°20.5' | 16.7 | 28.659 |
| July 18 | 2000 | 44°28.7' | 124°08.5' | 14.2 | 31.949 |
| July 18 | 2100 | 44°31.4' | 124°11.6' | 15.0 | 32.356 |
| July 18 | 2300 | 44°09.6' | 124°14.6' | 15.6 | 32.160 |
| July 18 | 2400 | 44°01.6' | 124°12.1' | 15.8 | 32.238 |
| July 19 | 0100 | 43°56.6' | 124°18.4' | 15.4 | 32.549 |
| July 19 | 0200 | 43°48.8' | 124°20.7' | 15.4 | 32.878 |
| July 19 | 2015 | 43°20.4' | 125°38.0' | 16.8 | 30.389 |
| July 19 | 2345 | 43°20.4' | 126°05.4' | 16.8 | 30.477 |
| July 20 | 0425 | 43°20.5' | 126°32.4' | 17.1 | 30.514 |

| Date 1964 | Time GMT | Latitude | Longitude | Temp°C | Sal ‰ |
|---|---|---|---|---|---|
| Nov 7 | 0720 | 44°39.1' | 125°21.0' | 12.0 | |
| Nov 8 | 2025 | 43°20.5' | 126°32.3' | 12.6 | |
| Nov 9 | 0015 | 43°20.5' | 126°05.2' | 12.4 | |
| Nov 9 | 0345 | 43°20.5' | 125°38.0' | 12.8 | |
| Nov 13 | 0805 | 46°14.4' | 124°41.7' | 11.0 | --- |
| Nov 13 | 1210 | 46°14.4' | 124°56.3' | 10.2 | --- |
| Nov. 13 | 1435 | 46°14.4' | 125°10.5' | 11.1 | --- |
| Nov 13 | 1705 | 46°14.5' | 125°25.4' | 10.6 | 31.928 |
| Nov 13 | 1830 | 46°15.2' | 125°40.0' | 10.9 | --- |
| Nov 13 | 2115 | 46°14.4' | 125°54.0' | 10.8 | 32.045 |
| Nov 13 | 2255 | 46°14.4' | 126°08.8' | | --- |
| Nov 14 | 0145 | 46°14.4' | 126°23.0' | 9.8 | 32.190 |
| Nov 14 | 0305 | 46°24.5' | 126°38.0' | 11.6 | --- |
| Nov 14 | 0610 | 46°14.5' | 126°52.5' | 11.4 | 32.159 |
| Nov 14 | 0733 | 46°14.4' | 127°07.0' | 10.5 | --- |
| Nov 14 | 1045 | 46°14.4' | 127°21.0' | 10.5 | 32.175 |
| Nov 14 | 1200 | 46°14.4' | 127°35.8 | 11.4 | --- |
| Nov 14 | 2100 | 45°17.0' | 126°09.0' | 12.6 | 32.244 |
| Nov 14 | 2200 | 45°09.0' | 125°56.5' | 12.6 | 32.295 |
| Nov 14 | 2300 | 45°02.0' | 125°45.0' | 12.5 | 32.289 |
| Nov 14 | 2400 | 44°54.5' | 125°33.3' | 12.3 | 32.223 |
| Nov 15 | 0220 | 44°39.1' | 125°06.9' | 11.0 | --- |
| Nov 15 | 0430 | 44°39.0' | 124°52.7' | 11.8 | --- |
| Nov 15 | 0620 | 44°39.0' | 124°39.0' | 10.5 | --- |
| Nov 15 | 0740 | 44°39.0' | 124°25.0' | 9.8 | --- |
| Nov 15 | 0915 | 44°39.3' | 124°11.0' | 10.0 | --- |
| Nov 15 | 1340 | 44°39.0' | 124°39.0' | 10.5 | 32.237 |
| Nov 15 | 1630 | 44°39.0' | 124°39.0' | 10.8 | 32.218 |
| Nov 15 | 1848 | 44°39.0' | 124°39.0' | 10.9 | 32.224 |
| Nov 15 | 2130 | 44°39.0' | 124°39.0' | 10.5 | 32.255 |
| Nov 15 | 2350 | 44°39.0' | 124°39.0' | 10.5 | 32.267 |
| Nov 16 | 0105 | 44°39.0' | 124°25.0' | 11.0 | --- |
| Nov 16 | 0223 | 44°39.0' | 124°11.0' | 9.9 | --- |

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