NOAA Data Report ERL PMEL-58

# VENTS 1994 CLEFT AND COAXIAL SEGMENT PLUME MONITORING: PHYSICAL AND CHEMICAL DATA, NOAA SHIPS *DISCOVERER* AND *SURVEYOR* AND R/V *ATLANTIS II*, APRIL TO SEPTEMBER 1994

Michael S. Devany
Edward T. Baker
Richard A. Feely
David J. Pashinski
Geoffrey T. Lebon
Sharon L. Walker
Pacific Marine Environmental Laboratory

Katherine A. Krogslund
School of Oceanography
The University of Washington

Calvin Mordy
Pacific Marine Environmental Laboratory

Pacific Marine Environmental Laboratory
Seattle, Washington
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Ronald H. Brown
Secretary

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James L. Rasmussen
Director

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FIGURE



TABLES

# VENTS 1994 Cleft and Coaxial Segment Plume Monitoring: Physical and Chemical Data, NOAA Ships *Discoverer* and *Surveyor*, and R/V*Atlantis II*, April to September 1994

Michael S. Devany[1], Edward T. Baker[1], Richard A. Feely[1], David J. Pashinski[1], Geoffrey T. Lebon[1], Sharon L. Walker[1], Katherine A. Krogslund[2], and Calvin Mordy[1]

*Abstract.* This report summarizes salinity, temperature, nutrient, optical, and total suspended matter data collected during the NOAA VENTS cruises in April to September of 1994. The data were collected over the Juan de Fuca Ridge covering an area from 44°00'N to 48°00'N and 126°30'W to 130°50'W. Additional data were collected on a transect from 45°00'N/129°45'W to 32°30'N/155°00'W and south to 20°24'N/155°00'W.

## 1. INTRODUCTION

The National Oceanic and Atmospheric Administration (NOAA) VENTS Program was established in 1984 to study the oceanic effects of hydrothermal activity along seafloor spreading centers. VENTS Program scientists from the Pacific Marine Environmental Laboratory (PMEL) have conducted intensive oceanographic research on the Cleft and Coaxial Segment of the Juan de Fuca Ridge spreading center located in the northeast Pacific Ocean basin.

The Juan de Fuca Ridge is a medium rate spreading center, consisting of the Cleft, Vance, Axial, Coaxial, Cobb, Endeavour, and West Valley segments. The ridge is bounded on the south by the Blanco Fracture Zone and on the north by the Sovanco Fracture Zone.

As part of the continuing VENTS Program research effort, chemical and physical oceanography cruises were conducted in April, July, August, and September 1994 aboard the NOAA Ships *Discoverer* and *Surveyor* with scientists from NOAA and the University of Hawaii. An additional cruise was conducted in June 1994 aboard the Woods Hole Oceanographic Institution's R/V *Atlantis II* with scientists from NOAA and the University of Washington. These cruises concentrated on physical oceanography and geochemical studies of the neutrally buoyant hydrothermal plumes over the Cleft and Coaxial Segments (Fig. 1) in order to quantitatively assess the impact of hydrothermal emissions of seawater chemistry of the northeast Pacific Ocean. This report includes the complete set of hydrographic, nutrient, optical, and total suspended matter data collected on the cruise (Appendix A) and a description of the sampling and analytical methods employed.

[1] NOAA/Pacific Marine Environmental Laboratory, 7600 Sand Point Way N.E., Seattle, WA 98115-0070.
[2] School of Oceanography, University of Washington, Seattle, WA 98195.

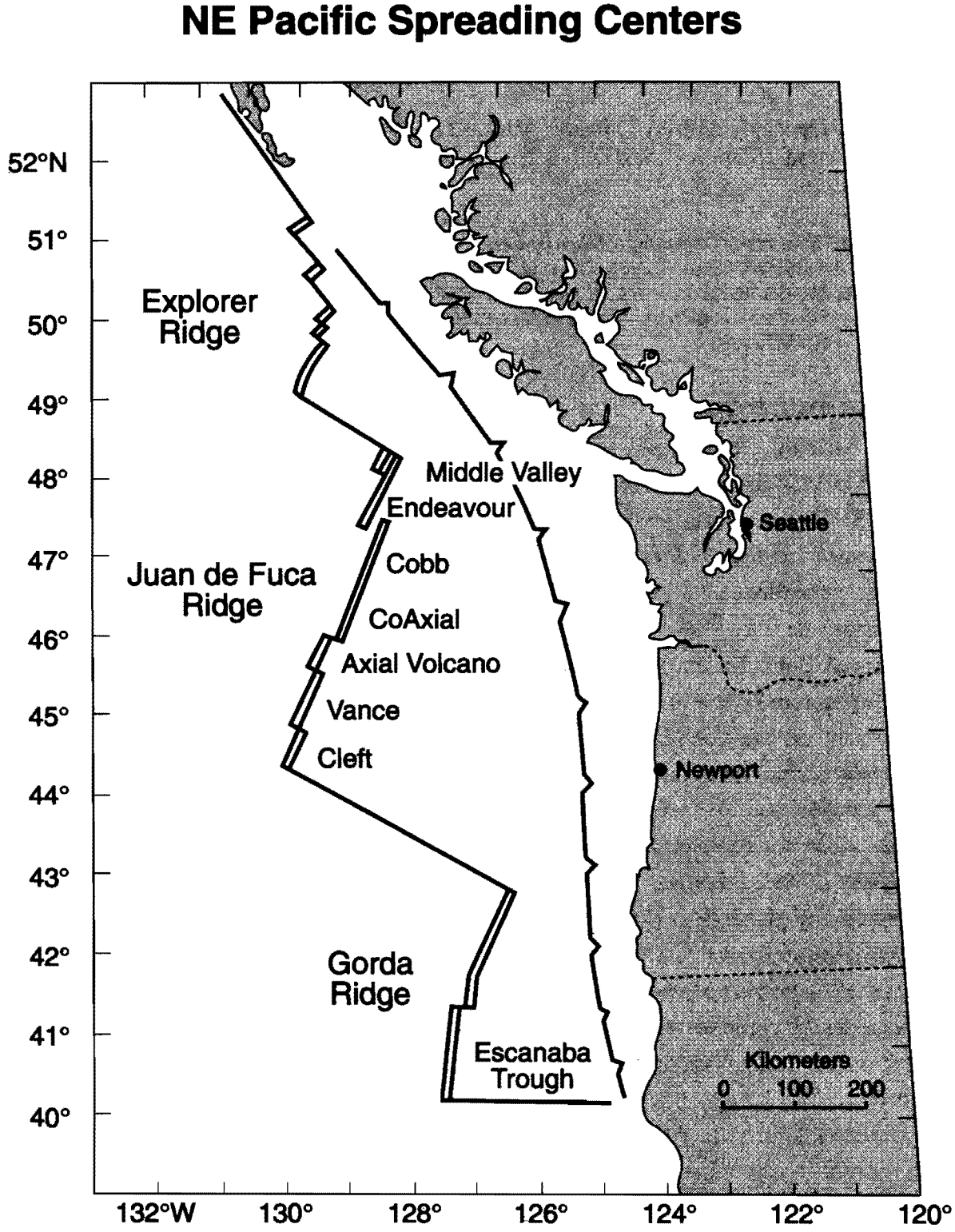


Fig. 1. Location map for the 1994 field season.

# 2. SAMPLING METHODS

## 2.1 Sample and Data Collection

### 2.1.1 *Seawater Samples*

Seawater samples were collected in standard 30-liter Niskin™ bottles fixed to a 24-position General Oceanics™ sampling rosette. The Niskin™ bottles were internally coated with Teflon and modified with Teflon stopcocks. The sampling rosette was equipped with a CTD-transmissometer, altimeter, and pinger locator; it was lowered into the water using standard hydrographic cable. The bottles were electronically tripped at pre-determined depths via a signal from the shipboard deck unit and closed by use of silastic tubing. Upon retrieval the Niskin™ bottles were removed from the rosette and placed in a non-contaminating pressure filtration rack for sub-sampling (Feely *et al.*, 1991).

Salinity samples were collected from the Niskin™ bottle in 250 ml citrate bottles.

Nutrient samples were collected from the Niskin™ bottle in HDPE 60 ml bottles prepared by washing with 10% HCL and rinsed with deionized water. Unfiltered nutrient samples were taken directly from the Niskin™ bottle. Filtered nutrient samples were taken downline of the 0.4 µm pore size Nuclepore polycarbonate filter during the total suspended matter pressure filtration of the seawater. All nutrients were analyzed at sea within 12 hours after collection.

Total suspended matter samples were collected in 30 L Niskin™ bottles and pressure filtered (12 psi) through 37 mm diameter, 0.4 µm pore size Nuclepore polycarbonate filters. As described in detail in Feely *et al.* (1991), an air filter was placed in the tygon line connecting the nitrogen gas and the Niskin™ bottle to prevent contamination of the seawater sample from particulates in the gas. To ensure that all particulates were filtered out of the seawater, the filtration racks were designed to tilt the Niskin™ bottle at a 45-degree angle and during filtration the bottle was gently agitated to keep particles in suspension. The seawater filtrate was directed into pre-calibrated 20-L plastic jerricans and volumes were measured to the nearest 100 mL. Depending upon the sample's proximity to the ridge crest, it took from 2 to 8 hours to filter 20 L of seawater, or to obtain a total of 400 µg of loading on the filter. All filters were loaded and unloaded from the teflon savillex holders inside a laminar flow hood. After filtration the particulate samples were rinsed with pH 8.0 deionized water and dried in a dessicator under vacuum.

### 2.1.2 *Conductivity-Temperature-Depth-Transmissometer Data*

CTD-transmissometer data was collected using a Sea-Bird conductivity-temperature-depth (CTD) sensor and a Sea Tech 0.25 m path length beam transmissometer secured to the frame of a General Oceanics™ sampling rosette. CTD information at the sampling depths were recorded shipboard on a MicroVax data acquisition system at trip time by taking a 10-second average of the continuously collected 1-second average data.

## 2.2 Sample Analysis

### 2.2.1 *Bottle Salinity*

Bottle salinity analysis was conducted by NOAA Ship *Discoverer* personnel on a shipboard Guildline Autosal™. Samples were stabilized to room temperature, 18°C, before analysis. Final salinity was determined by averaging three measurements from each citrate bottle. Bottle salinities from the R/V *Atlantis II* and NOAA Ship *Surveyor* were determined by the Northwest Calibration Center using a calibrated Guildline Autosal 8400 laboratory salinometer using the NRCC standard procedure.

### 2.2.2 *Nutrients*

Silicic acid and phosphate analysis were conducted by Kathy Krogslund of the University of Washington, employing a Technicon Autoanalyzer and the techniques described by Whitledge (1981). In the analysis of silicic acid, the average precision of the replicate analyses was ±0.5 μmol/l. Alpha Inorganics™ reagent grade $Na_2SiF_6$ was the standard used for this analysis. The phosphate analysis had an average precision of replicate analyses of ±20.0 nmol/l. Fisher™ certified primary standard $KH_2PO_4$ was used for standardization.

On leg 3B, silicic acid and phosphate analysis were conducted by Calvin Mordy using an Alpkem RFA-300 analyzer modified with Spectra-100 detectors from ThermoSeparations Products, and using protocols from Gordon *et al.* (1993). At each station five replicates were analyzed with an average precision of 2 nmol/l (0.07%) for phosphate and 0.1 μmol/l (0.06%) silicic acid. Standard material for silicic acid analysis was the same lot of Alpha Inorganics reagent grade $Na_2SiF_6$ used on previous legs, and was found to be within 0.05% of standards cross-referenced against an ultra-pure $SiO_2$ standard. Standard material for phosphate was the same lot of Fisher™ certified primary standard $KH_2PO_4$ used on previous legs.

### 2.2.4 *Total Suspended Matter*

Total suspended matter filters were weighed after desiccation on a Cahn 26™ Automatic Electrobalance which has an accuracy of ±0.005% of the true sample mass. Corrections for changes in filter weight were determined by reweighing reference filters, resulting in a net weight of particulate suspended matter. Given the net weight and volume of water filtered, total suspended matter concentrations were determined.

### 2.2.5 *Conductivity-Temperature-Depth-Transmissometer Data*

Measured conductivity was converted to salinity using standard UNESCO algorithms (Fofonoff and Millard, 1983). The conductivity data was corrected by direct comparison of bottle salinity and CTD salinity values. An average offset was determined for each cast.

Potential temperature was calculated using standard UNESCO algorithms (Fofonoff and Millard, 1983) and the CTD measured values of in situ temperature and salinity.

In situ density was calculated using standard UNESCO algorithms (Fofonoff and Millard, 1983) and the CTD measured values of in situ temperature and salinity.

Potential density was determined using standard UNESCO algorithms (Fofonoff and Millard, 1983) and the CTD measured salinity values.

Attenuation was measured and final values calculated as described in detail in Bartz *et al.* (1978).

The attenuation anomaly was calculated by determining the background value associated with each cast and subtracting that value from each discrete value.

The temperature anomaly ($\Delta\theta$) of each cast was calculated relative to the ambient water of the same potential density using the method of Lupton *et al.* (1985) with the equation

$$\Delta\theta = \theta - m * \sigma_\theta - b$$

where $\theta$ and $\sigma_\theta$ are the potential temperature and potential density, respectively, of the linear equation of the $\theta$ versus $\sigma_\theta$ trend for water immediately above the hydrothermal plume where the hydrographic effect of the hydrothermal emissions is negligible. The equation used for calculating the temperature anomaly for each individual cast is listed in the bottom left-hand portion of each station table.

# 3. STATION DATA

## 3.1 Station Locations for VENTS 1994

The data represented in Appendix A were collected from April 19 to September 30, 1994 over the Juan de Fuca Ridge covering an area from 44°00′N to 48°00′N and 126°30′W to 130°50′W. Additional data were collected on a transect from 45°00′N/129°45′ to 32°30′/155°00′ and south to 20°24′/155°00′. GPS was used for shipboard navigation and a listing of each station's latitude, longitude, and date of occupation is given in Table 1.

Vertical CTD profiles were taken at the majority of stations. Additionally, given the dynamic nature of hydrothermal plumes, a limited number of lengthy, horizontal tows, called "to-yos," were also conducted. To-yos were conducted by regularly cycling the CTD rosette package between the top and bottom layers of the hydrothermal plume. The ship's towing speed varied from 2–3 km/hr. Niskin™ bottle trip positions for each tow are given in Table 3.

## 3.2 Individual Station Data

The header on the data tables in Appendix A contains the station identification and consecutive cast number, the date the station was occupied, and the latitude and longitude of the station. The data is listed in rows by Niskin™ bottle number and in 21 columns as follows:

Column 1: Niskin™ bottle number

Column 2: Depth in meters

Column 3: Depth in decibars
Column 4: In situ temperature (°C)
Column 5: Potential temperature (°C)
Column 6: Temperature anomaly (°C)
Column 7: Salinity-CTD (PSU)
Column 8: Salinity-Bottle (PSU)
Column 9: Attenuation (1/m)
Column 10: In situ density (CTD salinity)
Column 11: In situ density (Bottle salinity)
Column 12: Potential density (CTD salinity)
Column 13: Potential density (Bottle salinity)
Column 14: Unfiltered $PO_4$
Column 15: Filtered $PO_4$
Column 16: Unfiltered $SiO_4$
Column 17: Filtered $SiO_4$
Column 18: Total suspended matter

The lower left portion of each table displays the equation used to calculate the station's temperature anomaly.

## 4. ACKNOWLEDGMENTS

The research was supported by the National Oceanic and Atmospheric Administration's VENTS Program. We gratefully acknowledge the assistance and professionalism of the officers and crew of the NOAA Ships *Discoverer* and *Surveyor*, and *R/V Atlantis II* in the collection of this data.

VENTS 1994
(APRIL–SEPTEMBER 1994)
STATION LOCATIONS

| STATION | DATE | LATITUDE | LONGITUDE |
|---|---|---|---|
| V94A01C01 | 19 Apr 1994 | 46°17.64′ | 129°41.67′ |
| V94A02C02 | 19 Apr 1994 | 46°09.54′ | 129°48.07′ |
| V94A04C08 | 22 Apr 1994 | 44°55.40′ | 130°07.20′ |
| V94A05C09 | 22 Apr 1994 | 44°56.02′ | 130°09.93′ |
| V94A06C10 | 22 Apr 1994 | 44°56.46′ | 130°10.72′ |
| V94A11C17 | 23 Apr 1994 | 44°57.90′ | 130°18.10′ |
| V94A13C19 | 23 Apr 1994 | 44°57.20′ | 130°15.00′ |
| V94A14C20 | 23 Apr 1994 | 44°56.60′ | 130°12.90′ |
| V94A15C21 | 24 Apr 1994 | 44°56.60′ | 130°11.30′ |
| V94A16C22 | 24 Apr 1994 | 44°55.63′ | 130°09.43′ |
| V94A17C23 | 24 Apr 1994 | 44°55.44′ | 130°08.00′ |
| V94A18C24 | 24 Apr 1994 | 44°54.40′ | 130°05.20′ |
| V94B01C01 | 20 Jun 1994 | 45°01.83′ | 130°13.31′ |
| V94B02C02 | 21 Jun 1994 | 44°59.33′ | 130°12.23′ |
| V94B02RC03 | 21 Jun 1994 | 44°59.27′ | 130°12.21′ |
| V94B03C04 | 21 Jun 1994 | 44°54.00′ | 130°14.58′ |
| V94B04C05 | 22 Jun 1994 | 44°57.83′ | 130°13.02′ |
| V94B05C09 | 24 Jun 1994 | 44°38.58′ | 130°22.76′ |
| V94B06C10 | 27 Jun 1994 | 44°40.65′ | 130°21.45′ |
| V94B07C12 | 28 Jun 1994 | 44°37.21′ | 130°23.04′ |
| V94B08C13 | 30 Jun 1994 | 46°31.31′ | 129°34.67′ |
| V94B09C17 | 03 Jul 1994 | 46°08.82′ | 129°48.40′ |
| V94B09RC18 | 05 Jul 1994 | 46°09.17′ | 129°48.61′ |
| V94B10C20 | 07 Jul 1994 | 46°18.45′ | 129°42.50′ |
| V94C01C01 | 29 Jul 1994 | 44°57.90′ | 130°12.70′ |
| V94C02C13 | 06 Aug 1994 | 47°42.49′ | 127°47.20′ |
| V94C03C15 | 06 Aug 1994 | 47°42.69′ | 127°46.90′ |
| V94C04C14 | 06 Aug 1994 | 47°42.74′ | 127°47.18′ |
| V94C08C16 | 07 Aug 1994 | 47°42.60′ | 127°47.00′ |
| V94C05C21 | 07 Aug 1994 | 47°42.90′ | 127°47.58′ |
| V94C06C20 | 07 Aug 1994 | 47°42.77′ | 127°47.41′ |
| V94C10C25 | 08 Aug 1994 | 47°43.48′ | 127°48.46′ |
| V94C12C28 | 09 Aug 1994 | 47°55.01′ | 127°00.00′ |
| V94E01C01 | 14 Sep 1994 | 44°59.93′ | 129°30.00′ |
| V94E02C05 | 16 Sep 1994 | 44°55.32′ | 130°07.82′ |
| V94E03C06 | 16 Sep 1994 | 44°55.81′ | 130°09.71′ |
| V94E04C07 | 16 Sep 1994 | 44°56.19′ | 130°11.31′ |
| V94E05C08 | 16 Sep 1994 | 44°56.68′ | 130°13.23′ |
| V94E06C09 | 17 Sep 1994 | 44°58.39′ | 130°12.70′ |
| V94E07C10 | 17 Sep 1994 | 44°57.07′ | 130°14.87′ |
| V94E08C11 | 17 Sep 1994 | 44°57.53′ | 130°16.76′ |
| V94E09C12 | 17 Sep 1994 | 44°57.97′ | 130°18.29′ |
| V94E10C13 | 17 Sep 1994 | 45°00.08′ | 130°44.92′ |
| V94E11C14 | 17 Sep 1994 | 45°56.50′ | 129°58.70′ |
| V94E12C15 | 18 Sep 1994 | 46°26.74′ | 128°30.07′ |
| V94E13C16 | 19 Sep 1994 | 46°23.51′ | 127°29.99′ |
| V94E14C17 | 19 Sep 1994 | 46°20.25′ | 126°29.68′ |

| STATION | DATE | LATITUDE | LONGITUDE |
|---|---|---|---|
| V94F01C01 | 20 Sep 1994 | 45°00.22′ | 129°45.09′ |
| V94F02C02 | 20 Sep 1994 | 44°58.20′ | 130°12.76′ |
| V94F03C03 | 21 Sep 1994 | 44°56.13′ | 130°40.30′ |
| V94F04C04 | 21 Sep 1994 | 44°53.03′ | 131°07.97′ |
| V94F05C05 | 21 Sep 1994 | 44°50.02′ | 131°34.96′ |
| V94F06C06 | 21 Sep 1994 | 44°42.89′ | 132°43.17′ |
| V94F07C07 | 21 Sep 1994 | 44°37.05′ | 133°50.94′ |
| V94F08C08 | 22 Sep 1994 | 44°29.99′ | 135°00.19′ |
| V94F09C09 | 22 Sep 1994 | 44°07.00′ | 136°13.22′ |
| V94F10C10 | 22 Sep 1994 | 43°44.06′ | 137°26.00′ |
| V94F11C11 | 23 Sep 1994 | 43°19.89′ | 138°39.98′ |
| V94F12C12 | 23 Sep 1994 | 42°35.16′ | 140°05.08′ |
| V94F13C13 | 23 Sep 1994 | 41°29.99 | 141°29.98′ |
| V94F14C14 | 24 Sep 1994 | 40°30.01′ | 142°59.79′ |
| V94F15C15 | 24 Sep 1994 | 39°29.98′ | 144°29.98′ |
| V94F16C16 | 24 Sep 1994 | 38°30.01′ | 145°59.97′ |
| V94F17C17 | 25 Sep 1994 | 37°30.05′ | 147°30.03′ |
| V94F18C18 | 25 Sep 1994 | 36°30.01′ | 149°00.03′ |
| V94F19C19 | 26 Sep 1994 | 35°30.06′ | 150°29.82′ |
| V94F20C20 | 26 Sep 1994 | 34°29.96′ | 152°00.02′ |
| V94F21C21 | 26 Sep 1994 | 33°29.94′ | 153°30.10′ |
| V94F22C22 | 27 Sep 1994 | 32°30.03′ | 155°00.07′ |
| V94F23C23 | 27 Sep 1994 | 30°50.10′ | 155°00.03′ |
| V94F24C24 | 28 Sep 1994 | 29°09.88′ | 155°00.03′ |
| V94F25C25 | 28 Sep 1994 | 27°29.91′ | 155°00.14′ |
| V94F26C26 | 28 Sep 1994 | 25°50.03′ | 155°00.02′ |
| V94F27C27 | 29 Sep 1994 | 24°10.00′ | 154°59.98′ |
| V94F28C28 | 29 Sep 1994 | 22°29.93′ | 154°59.95′ |
| V94F29C29 | 30 Sep 1994 | 20°59.95′ | 155°00.08′ |
| V94F30C30 | 30 Sep 1994 | 20°24.10′ | 155°00.10′ |

VENTS 1994
(APRIL–SEPTEMBER 1994)
TOW-YO BOTTLE TRIP LOCATIONS

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| T94B01 | 22 Jun 1994 | 10 | 44°55.80′ | 130°8.94′ |
| | | 9 | 44°55.83′ | 130°8.97′ |
| | | 8 | 44°56.65′ | 130°10.36′ |
| | | 7 | 44°57.21′ | 130°11.70′ |
| | | 6 | 44°57.44′ | 130°12.33′ |
| | | 5 | 44°57.52′ | 130°12.53′ |
| | | 4 | 44°57.53′ | 130°12.57′ |
| | | 3 | 44°57.55′ | 130°12.64′ |
| | | 2 | 44°57.80′ | 130°13.36′ |
| | | 1 | 44°58.19′ | 130°14.55′ |
| T94B03 | 23 Jun 1994 | 10 | 44°58.91′ | 130°11.79′ |
| | | 9 | 44°57.90′ | 130°10.93′ |
| | | 8 | 44°57.56′ | 130°10.17′ |
| | | 7 | 44°57.51′ | 130°10.18′ |
| | | 6 | 44°56.41′ | 130°12.27′ |
| | | 5 | 44°55.08′ | 130°13.73′ |
| T94B04 | 27 Jun 1994 | 10 | 44°45.26′ | 130°17.95′ |
| | | 9 | 44°44.68′ | 130°18.94′ |
| | | 8 | 44°43.76′ | 130°19.68′ |
| | | 7 | 44°41.46′ | 130°20.81′ |
| | | 6 | 44°40.99′ | 130°21.03′ |
| | | 5 | 44°40.02′ | 130°21.48′ |
| | | 4 | 44°39.48′ | 130°21.72′ |
| | | 3 | 44°38.50′ | 130°22.22′ |
| | | 2 | 44°38.19′ | 130°22.39′ |
| | | 1 | 44°38.14′ | 130°22.41′ |
| | | 11 | 44°37.75′ | 130°22.62′ |
| | | 12 | 44°37.73′ | 130°22.63′ |
| T94B05 | 01 Jul 1994 | 10 | 46°20.11′ | 129°41.57′ |
| | | 9 | 46°19.87′ | 129°41.68′ |
| | | 8 | 46°19.70′ | 129°41.77′ |
| | | 7 | 46°19.46′ | 129°41.88′ |
| | | 6 | 46°19.09′ | 129°42.05′ |
| | | 5 | 46°18.75′ | 129°42.23′ |
| | | 4 | 46°18.71′ | 129°42.26′ |
| | | 3 | 46°18.59′ | 129°42.32′ |
| | | 2 | 46°18.57′ | 129°42.33′ |
| | | 1 | 46°18.34′ | 129°42.47′ |
| | | 11 | 46°17.61′ | 129°42.88′ |
| | | 12 | 46°16.28′ | 129°43.61′ |
| T94B06 | 02 Jul 1994 | 10 | 45°59.96′ | 129°59.32′ |
| | | 9 | 45°59.57′ | 129°59.27′ |
| | | 8 | 45°56.29′ | 129°59.11′ |
| | | 7 | 45°55.96′ | 129°59.12′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| T94B07 | 03 Jul 1994 | 10 | 46°9.06′ | 129°48.04′ |
| | | 9 | 46°9.13′ | 129°48.22′ |
| | | 8 | 46°9.17′ | 129°48.32′ |
| | | 7 | 46°9.22′ | 129°48.45′ |
| | | 6 | 46°9.27′ | 129°48.63′ |
| | | 5 | 46°9.31′ | 129°48.77′ |
| | | 4 | 46°9.57′ | 129°49.56′ |
| | | 3 | 46°9.78′ | 129°50.24′ |
| T94B08 | 05 Jul 1994 | 10 | 46°6.60′ | 129°49.83′ |
| | | 9 | 46°7.34′ | 129°49.51′ |
| | | 8 | 46°7.92′ | 129°49.25′ |
| | | 7 | 46°8.22′ | 129°49.10′ |
| | | 6 | 46°8.42′ | 129°48.99′ |
| | | 5 | 46°9.09′ | 129°48.58′ |
| | | 4 | 46°9.03′ | 129°48.62′ |
| | | 3 | 46°9.42′ | 129°48.37′ |
| | | 2 | 46°9.82′ | 129°48.09′ |
| | | 1 | 46°10.15′ | 129°47.85′ |
| T94C01 | 30 July 1994 | 1 | 45°9.17′ | 130°6.78′ |
| | | 2 | 45°8.17′ | 130°7.45′ |
| | | 3 | 45°7.48′ | 130°7.83′ |
| | | 4 | 45°6.74′ | 130°8.26′ |
| | | 5 | 45°5.68′ | 130°8.84′ |
| | | 6 | 45°4.78′ | 130°9.28′ |
| | | 7 | 45°3.75′ | 130°9.82′ |
| | | 8 | 45°2.79′ | 130°10.33′ |
| | | 9 | 45°1.73′ | 130°10.90′ |
| | | 10 | 45°1.30′ | 130°11.13′ |
| | | 11 | 45°0.71′ | 130°11.33′ |
| | | 13 | 44°59.97′ | 130°11.49′ |
| | | 14 | 44°59.22′ | 130°11.60′ |
| | | 15 | 44°57.74′ | 130°11.82′ |
| | | 16 | 44°57.06′ | 130°12.12′ |
| | | 17 | 44°56.75′ | 130°12.32′ |
| T94C02 | 31 July 1994 | 1 | 44°57.33′ | 130°12.82′ |
| | | 2 | 44°55.47′ | 130°13.87′ |
| | | 3 | 44°54.97′ | 130°14.15′ |
| | | 4 | 44°53.69′ | 130°14.88′ |
| | | 5 | 44°53.18′ | 130°15.15′ |
| | | 6 | 44°50.89′ | 130°16.33′ |
| | | 7 | 44°49.22′ | 130°17.15′ |
| | | 8 | 44°46.39′ | 130°18.54′ |
| | | 9 | 44°44.12′ | 130°19.68′ |
| | | 10 | 44°41.66′ | 130°20.84′ |
| | | 11 | 44°41.59′ | 130°20.88′ |
| | | 12 | 44°41.51′ | 130°20.92′ |
| | | 13 | 44°41.34′ | 130°21.01′ |
| | | 14 | 44°41.26′ | 130°21.06′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| | | 15 | 44°40.57′ | 130°21.42′ |
| | | 16 | 44°40.52′ | 130°21.44′ |
| | | 17 | 44°40.42′ | 130°21.48′ |
| | | 18 | 44°40.34′ | 130°21.52′ |
| | | 19 | 44°40.31′ | 130°21.54′ |
| | | 20 | 44°40.27′ | 130°21.57′ |
| T94C03 | 01 Aug 1994 | 1 | 45° 7.01′ | 130°7.69′ |
| | | 3 | 45°7.43′ | 130°8.85′ |
| | | 4 | 45°7.48′ | 130°9.01′ |
| | | 5 | 45°7.72′ | 130°9.91′ |
| | | 6 | 45°8.38′ | 130°12.22′ |
| | | 7 | 45°8.74′ | 130°13.42′ |
| | | 8 | 45°9.04′ | 130°14.34′ |
| T94C04 | 01 Aug 1994 | 1 | 45°0.85′ | 130°17.02′ |
| | | 2 | 45°0.53′ | 130°15.81′ |
| | | 3 | 45°0.31′ | 130°15.09′ |
| | | 4 | 44°59.95′ | 130°13.93′ |
| | | 5 | 44°59.41′ | 130°12.22′ |
| | | 6 | 44°59.22′ | 130°11.41′ |
| | | 7 | 44°59.20′ | 130°11.32′ |
| | | 8 | 44°59.18′ | 130°11.25′ |
| | | 9 | 44°59.16′ | 130°11.14′ |
| T94C05 | 02 Aug 1994 | 1 | 44°50.21′ | 130°8.08′ |
| | | 2 | 44°50.21′ | 130°8.08′ |
| | | 3 | 44°50.21′ | 130°8.08′ |
| | | 4 | 44°50.21′ | 130°8.08′ |
| | | 5 | 44°50.13′ | 130°8.11′ |
| | | 6 | 44°50.18′ | 130°8.13′ |
| | | 7 | 44°50.20′ | 130°8.14′ |
| | | 8 | 44°50.13′ | 130°8.10′ |
| | | 9 | 44°50.20′ | 130°8.15′ |
| | | 10 | 44°50.21′ | 130°8.16′ |
| | | 11 | 44°50.21′ | 130°8.16′ |
| | | 12 | 44°50.23′ | 130°8.18′ |
| | | 13 | 44°50.20′ | 130°8.14′ |
| | | 14 | 44°51.39′ | 130°13.32′ |
| | | 15 | 44°51.59′ | 130°14.13′ |
| | | 16 | 44°51.97′ | 130°15.84′ |
| | | 17 | 44°52.26′ | 130°17.28′ |
| T94C06 | 03 Aug 1994 | 3 | 44°59.95′ | 130°12.01′ |
| | | 4 | 44°59.85′ | 130°12.07′ |
| | | 5 | 44°59.76′ | 130°12.13′ |
| | | 6 | 44°59.70′ | 130°12.16′ |
| | | 7 | 44°59.65′ | 130°12.19′ |
| | | 8 | 44°59.58′ | 130°12.23′ |
| | | 9 | 44°59.52′ | 130°12.27′ |
| | | 10 | 44°59.39′ | 130°12.33′ |
| | | 11 | 44°59.34′ | 130°12.36′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| | | 12 | 44°59.20′ | 130°12.44′ |
| T94C07 | 04 Aug 1994 | 1 | 46°8.93′ | 129°48.52′ |
| | | 2 | 46°9.05′ | 129°48.45′ |
| | | 3 | 46°9.46′ | 129°48.17′ |
| | | 4 | 46°9.85′ | 129°47.89′ |
| | | 5 | 46°11.03′ | 129°47.07′ |
| | | 6 | 46°19.15′ | 129°42.73′ |
| | | 7 | 46°19.20′ | 129°42.67′ |
| | | 8 | 46°19.26′ | 129°42.61′ |
| | | 9 | 46°19.35′ | 129°42.52′ |
| | | 10 | 46°19.84′ | 129°42.07′ |
| | | 11 | 46°24.70′ | 129°38.48′ |
| | | 12 | 46°30.64′ | 129°35.06′ |
| T94C08 | 05 Aug 1994 | 1 | 46°30.31′ | 129°34.30′ |
| | | 2 | 46°30.39′ | 129°34.78′ |
| | | 3 | 46°30.49′ | 129°35.39′ |
| | | 4 | 46°30.51′ | 129°35.45′ |
| | | 5 | 46°30.60′ | 129°36.16′ |
| | | 6 | 46°30.73′ | 129°37.14′ |
| T94C09 | 05 Aug 1994 | 1 | 46°17.85′ | 129°40.99′ |
| | | 2 | 46°18.24′ | 129°42.39′ |
| | | 3 | 46°18.39′ | 129°42.99′ |
| | | 4 | 46°18.78′ | 129°44.53′ |
| T94C10 | 05 Aug 1994 | 1 | 46°9.03′ | 129°47.92′ |
| | | 2 | 46°9.33′ | 129°48.89′ |
| T94C11 | 06 Aug 1994 | 1 | 47°42.02′ | 127°47.74′ |
| | | 2 | 47°42.02′ | 127°47.74′ |
| | | 3 | 47°42.02′ | 127°47.74′ |
| | | 4 | 47°42.03′ | 127°47.73′ |
| | | 5 | 47°42.03′ | 127°47.73′ |
| | | 6 | 47°42.03′ | 127°47.73′ |
| | | 7 | 47°41.95′ | 127°47.79′ |
| | | 8 | 47°42.31′ | 127°47.48′ |
| | | 9 | 47°42.31′ | 127°47.48′ |
| | | 10 | 47°42.30′ | 127°47.48′ |
| | | 11 | 47°42.40′ | 127°47.41′ |
| | | 12 | 47°42.50′ | 127°47.31′ |
| | | 13 | 47°42.57′ | 127°47.27′ |
| | | 14 | 47°42.89′ | 127°47.04′ |
| | | 15 | 47°42.89′ | 127°47.04′ |
| | | 16 | 47°42.91′ | 127°47.02′ |
| | | 17 | 47°43.13′ | 127°46.87′ |
| | | 18 | 47°43.15′ | 127°46.86′ |
| | | 19 | 47°43.18′ | 127°46.84′ |
| | | 20 | 47°43.18′ | 127°46.84′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| T94C12 | 07 Aug 1994 | 1 | 47°42.61′ | 127°46.81′ |
| | | 2 | 47°42.70′ | 127°46.91′ |
| | | 3 | 47°42.81′ | 127°47.23′ |
| | | 4 | 47°42.82′ | 127°47.25′ |
| | | 5 | 47°42.82′ | 127°47.25′ |
| | | 6 | 47°42.82′ | 127°47.26′ |
| | | 7 | 47°42.90′ | 127°47.55′ |
| | | 8 | 47°42.91′ | 127°47.60′ |
| | | 9 | 47°42.97′ | 127°47.76′ |
| T94C13 | 07 Aug 1994 | 1 | 47°42.73′ | 127°47.54′ |
| | | 2 | 47°43.12′ | 127°47.54′ |
| | | 3 | 47°43.33′ | 127°47.56′ |
| T94C14 | 07 Aug 1994 | 1 | 47°42.88′ | 127°46.99′ |
| | | 2 | 47°42.36′ | 127°47.29′ |
| | | 3 | 47°42.21′ | 127°47.39′ |
| | | 4 | 47°42.08′ | 127°47.49′ |
| | | 5 | 47°41.82′ | 127°47.68′ |
| | | 6 | 47°41.75′ | 127°47.74′ |
| T94C15 | 07 Aug 1994 | 1 | 47°42.37′ | 127°48.44′ |
| | | 2 | 47°42.46′ | 127°48.21′ |
| | | 3 | 47°42.49′ | 127°48.14′ |
| | | 4 | 47°42.50′ | 127°48.11′ |
| | | 5 | 47°42.52′ | 127°48.06′ |
| | | 6 | 47°42.67′ | 127°47.70′ |
| | | 7 | 47°42.68′ | 127°47.66′ |
| | | 8 | 47°42.70′ | 127°47.62′ |
| | | 9 | 47°42.73′ | 127°47.56′ |
| | | 10 | 47°42.90′ | 127°47.15′ |
| | | 11 | 47°42.92′ | 127°47.08′ |
| | | 12 | 47°42.94′ | 127°47.04′ |
| | | 13 | 47°42.96′ | 127°47.00′ |
| | | 14 | 47°43.12′ | 127°46.61′ |
| | | 15 | 47°43.13′ | 127°46.58′ |
| | | 16 | 47°43.15′ | 127°46.52′ |
| | | 17 | 47°43.17′ | 127°46.48′ |
| T94C16 | 08 Aug 1994 | 1 | 47°50.24′ | 127°43.64′ |
| | | 2 | 47°50.34′ | 127°43.61′ |
| | | 3 | 47°50.38′ | 127°43.60′ |
| | | 4 | 47°50.33′ | 127°43.61′ |
| | | 5 | 47°51.37′ | 127°43.25′ |
| | | 6 | 47°51.42′ | 127°43.25′ |
| | | 7 | 47°51.47′ | 127°43.24′ |
| | | 8 | 47°51.60′ | 127°43.22′ |
| T94C17 | 08 Aug 1994 | 1 | 47°50.40′ | 127°44.16′ |
| | | 2 | 47°50.76′ | 127°43.77′ |
| | | 3 | 47°50.79′ | 127°43.73′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| | | 4 | 47°50.90′ | 127°43.62′ |
| | | 5 | 47°50.98′ | 127°43.52′ |
| | | 6 | 47°51.15′ | 127°43.34′ |
| | | 7 | 47°51.33′ | 127°43.14′ |
| T94C18 | 09 Aug 1994 | 1 | 47°41.97′ | 127°47.09′ |
| | | 2 | 47°42.01′ | 127°47.02′ |
| | | 3 | 47°42.07′ | 127°46.91′ |
| | | 4 | 47°42.12′ | 127°46.82′ |
| | | 5 | 47°42.47′ | 127°46.28′ |
| | | 6 | 47°42.51′ | 127°46.21′ |
| | | 7 | 47°42.57′ | 127°46.13′ |
| | | 8 | 47°42.66′ | 127°45.99′ |
| | | 9 | 47°43.19′ | 127°45.20′ |
| | | 10 | 47°43.26′ | 127°45.10′ |
| | | 11 | 47°43.30′ | 127°45.04′ |
| | | 12 | 47°43.34′ | 127°44.98′ |
| T94C19 | 09 Aug 1994 | 1 | 47°51.61′ | 127°36.93′ |
| | | 2 | 47°52.29′ | 127°36.76′ |
| | | 3 | 47°53.08′ | 127°36.64′ |
| | | 4 | 47°53.11′ | 127°36.63′ |
| | | 5 | 47°53.16′ | 127°36.63′ |
| | | 6 | 47°53.38′ | 127°36.60′ |
| | | 7 | 47°54.72′ | 127°36.30′ |
| | | 8 | 47°53.95′ | 127°36.86′ |
| | | 9 | 47°53.86′ | 127°36.91′ |
| | | 10 | 47°53.59′ | 127°37.09′ |
| | | 11 | 47°53.52′ | 127°37.15′ |
| | | 12 | 47°53.49′ | 127°37.18′ |
| | | 13 | 47°53.05′ | 127°37.53′ |
| | | 14 | 47°51.84′ | 127°38.22′ |
| | | 15 | 47°51.78′ | 127°38.24′ |
| | | 16 | 47°51.74′ | 127°38.25′ |
| | | 17 | 47°51.71′ | 127°38.25′ |
| | | 18 | 47°50.70′ | 127°38.44′ |
| | | 19 | 47°50.68′ | 127°38.44′ |
| | | 20 | 47°50.66′ | 127°38.44′ |
| T94E01 | 15 Sep 1994 | 4 | 44°55.59′ | 130°14.07′ |
| | | 6 | 44°55.50′ | 130°14.12′ |
| | | 8 | 44°55.39′ | 130°14.18′ |
| | | 10 | 44°55.11′ | 130°14.36′ |
| | | 14 | 44°54.61′ | 130°14.67′ |
| | | 16 | 44°53.54′ | 130°15.42′ |
| | | 18 | 44°52.27′ | 130°16.42′ |
| T94E02 | 15 Sep 1994 | 4 | 44°57.39′ | 130°16.58′ |
| | | 6 | 44°57.34′ | 130°16.75′ |
| | | 8 | 44°57.28′ | 130°16.91′ |
| | | 10 | 44°57.16′ | 130°17.26′ |

| Tow | Date occupied | Bottle | Latitude | Longitude |
|---|---|---|---|---|
| | | 14 | 44°56.94′ | 130°17.82′ |
| | | 16 | 44°56.32′ | 130°19.07′ |
| | | 18 | 44°56.01′ | 130°19.26′ |
| T94E03 | 15 Sep 1994 | 4 | 44°56.16′ | 130°9.87′ |
| | | 6 | 44°56.05′ | 130°9.68′ |
| | | 8 | 44°55.94′ | 130°9.49′ |
| | | 10 | 44°55.74′ | 130°9.15′ |
| | | 14 | 44°55.46′ | 130°8.65′ |
| | | 16 | 44°54.90′ | 130°7.69′ |
| | | 18 | 44°54.05′ | 130°6.94′ |

# APPENDIX:

## Station Data Tables
## VENTS 1994

VENTS 1994 - SURVEYOR
Station V94A01 Cast 01 19 APR 1994
LAT: 46 17.64N LONG: 129 41.67W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2206.2 | 2236.5 | 1.935 | 1.779 | | 34.605 | 34.606 | 0.313 | 27.660 | 27.661 | 27.672 | 27.673 | |
| 2 | 1984.4 | 2010.5 | 1.955 | 1.818 | | 34.597 | 34.607 | 0.308 | 27.652 | 27.660 | 27.663 | 27.671 | |
| 3 | 1498.5 | 1516.5 | 2.393 | 2.291 | | 34.520 | 34.604 | 0.308 | 27.555 | 27.622 | 27.564 | 27.631 | |
| 4 | 1001.9 | 1012.7 | 3.242 | 3.171 | | 34.373 | 34.566 | 0.311 | 27.362 | 27.516 | 27.369 | 27.523 | |
| 5 | 509.1 | 514.0 | 4.381 | 4.343 | | 34.078 | 34.612 | 0.311 | 27.013 | 27.437 | 27.017 | 27.441 | |

VENTS 1994 - SURVEYOR
Station V94A02 Cast 02 19 APR 1994
LAT: 46 09.54N LONG: 129 48.07W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2025.5 | 2052.3 | 1.952 | 1.812 | | 34.601 | 34.599 | 0.311 | 27.656 | 27.654 | 27.667 | 27.665 | |
| 2 | 1982.6 | 2008.6 | 1.966 | 1.829 | | 34.596 | 34.594 | 0.309 | 27.651 | 27.649 | 27.661 | 27.660 | |
| 3 | 1498.5 | 1516.5 | 2.334 | 2.233 | | 34.528 | 34.588 | 0.310 | 27.567 | 27.615 | 27.575 | 27.623 | |
| 4 | 1005.8 | 1016.6 | 3.224 | 3.153 | | 34.371 | 34.555 | 0.312 | 27.362 | 27.509 | 27.369 | 27.516 | |
| 5 | 509.3 | 514.1 | 4.477 | 4.438 | | 34.074 | 34.529 | 0.314 | 26.999 | 27.361 | 27.004 | 27.365 | |

VENTS 1994 - SURVEYOR
Station T94A02 Cast 05 20 APR 1994
LAT: 44 53.42N LONG: 130 14.8W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1186.3 | 1199.5 | 2.912 | 2.830 | | 34.450 | | 0.31 | 27.454 | | 27.461 | | |
| 4 | 1156.4 | 1169.1 | 2.942 | 2.862 | | 34.439 | | 0.31 | 27.443 | | 27.450 | | |

VENTS 1994 - SURVEYOR
Station V94A04 Cast 08 22 APR 1994
LAT: 44 55.4N LONG: 130 07.2W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2362.3 | 2395.2 | 1.790 | 1.623 | | 34.631 | 34.519 | 0.315 | 27.692 | 27.603 | 27.705 | 27.615 | |
| 2 | 2001.2 | 2027.3 | 1.904 | 1.767 | | 34.603 | 34.095 | 0.309 | 27.661 | 27.254 | 27.672 | 27.264 | |
| 3 | 1501.7 | 1519.5 | 2.412 | 2.310 | | 34.530 | 32.531 | 0.310 | 27.562 | 25.963 | 27.570 | 25.971 | |
| 4 | 1001.6 | 1012.2 | 3.262 | 3.191 | | 34.387 | 32.532 | 0.311 | 27.372 | 25.892 | 27.378 | 25.899 | |
| 5 | 500.8 | 505.5 | 4.804 | 4.765 | | 34.097 | | 0.312 | 26.982 | | 26.986 | | |

VENTS 1994 - SURVEYOR
Station V94A05 Cast 09 22 APR 1994
LAT: 44 56.02N LONG: 130 09.93W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2340.3 | 2372.8 | 1.823 | 1.657 | | 34.625 | 34.131 | 0.315 | 27.685 | 27.289 | 27.698 | 27.301 | |
| 2 | 1998.0 | 2024.1 | 1.908 | 1.771 | | 34.604 | 32.486 | 0.311 | 27.662 | 25.965 | 27.672 | 25.974 | |
| 3 | 1497.4 | 1515.2 | 2.410 | 2.308 | | 34.531 | 32.489 | 0.309 | 27.563 | 25.929 | 27.571 | 25.937 | |
| 4 | 999.6 | 1010.3 | 3.265 | 3.194 | | 34.385 | 32.486 | 0.311 | 27.370 | 25.856 | 27.376 | 25.862 | |
| 5 | 496.9 | 501.6 | 5.018 | 4.978 | | 34.143 | 32.487 | 0.313 | 26.994 | 25.681 | 26.998 | 25.686 | |

VENTS 1994 - SURVEYOR
Station V94A06 Cast 10 22 APR 1994
LAT: 44 56.46N LONG: 130 10.72W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2204.0 | 2233.8 | 1.862 | 1.708 | | 34.620 | | 0.315 | 27.678 | | 27.690 | | |
| 2 | 1993.8 | 2019.8 | 1.909 | 1.772 | | 34.606 | | 0.314 | 27.663 | | 27.674 | | |
| 3 | 1499.3 | 1517.1 | 2.399 | 2.297 | | 34.535 | | 0.309 | 27.567 | | 27.575 | | |
| 4 | 996.4 | 1007.0 | 3.245 | 3.175 | | 34.389 | | 0.311 | 27.375 | | 27.381 | | |
| 5 | 493.8 | 498.5 | 5.078 | 5.038 | | 34.142 | | 0.312 | 26.986 | | 26.991 | | |

VENTS 1994 - LEG I
Station T94A05 Cast 15 23 APR 1994
LAT: 44 57.9N LONG: 130 14.6W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2198.8 | 2228.6 | 1.855 | 1.701 | | 34.621 | 34.607 | 0.314 | 27.679 | 27.668 | 27.691 | 27.680 | |
| 4 | 1502.0 | 1519.8 | 2.350 | 2.248 | | 34.534 | 34.525 | 0.308 | 27.570 | 27.563 | 27.578 | 27.571 | |
| 7 | 1001.3 | 1012.0 | 3.275 | 3.204 | | 34.387 | 34.580 | 0.309 | 27.370 | 27.524 | 27.377 | 27.531 | |
| 10 | 515.1 | 519.9 | 4.588 | 4.549 | | 34.091 | 34.385 | 0.309 | 27.001 | 27.234 | 27.005 | 27.239 | |

VENTS 1994 - SURVEYOR
Station T94A06 Cast 16 23 APR 1994
LAT: 44 59.7N LONG: 130 13.0W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2338.3 | 2370.8 | 1.827 | 1.662 | | 34.626 | 34.480 | 0.311 | 27.686 | 27.569 | 27.698 | 27.581 | |
| 4 | 2001.2 | 2027.3 | 1.911 | 1.774 | | 34.605 | 34.461 | 0.309 | 27.662 | 27.547 | 27.673 | 27.557 | |
| 7 | 1505.6 | 1523.5 | 2.419 | 2.316 | | 34.531 | 34.434 | 0.309 | 27.562 | 27.484 | 27.570 | 27.493 | |
| 10 | 1022.2 | 1033.2 | 3.229 | 3.157 | | 34.393 | 34.384 | 0.311 | 27.379 | 27.372 | 27.386 | 27.379 | |
| 13 | 502.0 | 506.8 | 4.613 | 4.574 | | 34.082 | 34.115 | 0.312 | 26.991 | 27.017 | 26.995 | 27.021 | |

VENTS 1994 - SURVEYOR
Station V94A11 Cast 17 23 APR 1994
LAT: 44 57.9N LONG: 130 18.1W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2410.4 | 2444.3 | 1.819 | 1.647 | | 34.628 | 34.618 | 0.319 | 27.688 | 27.680 | 27.701 | 27.693 | |
| 2 | 2000.4 | 2026.5 | 1.902 | 1.765 | | 34.608 | 34.564 | 0.316 | 27.665 | 27.630 | 27.676 | 27.641 | |
| 3 | 1495.3 | 1513.0 | 2.355 | 2.254 | | 34.531 | 34.463 | 0.308 | 27.567 | 27.513 | 27.576 | 27.521 | |
| 4 | 1000.6 | 1011.3 | 3.284 | 3.213 | | 34.384 | 34.334 | 0.311 | 27.367 | 27.327 | 27.374 | 27.334 | |
| 5 | 493.8 | 498.5 | 4.587 | 4.549 | | 34.083 | 34.078 | 0.312 | 26.995 | 26.991 | 26.999 | 26.995 | |

VENTS 1994 - SURVEYOR
Station V94A13 Cast 19 23 APR 1994
LAT: 44 57.2N LONG: 130 15.0W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2167.9 | 2197.1 | 1.847 | 1.696 | | 34.621 | 34.612 | 0.317 | 27.680 | 27.673 | 27.692 | 27.684 | |
| 2 | 1989.7 | 2015.6 | 1.920 | 1.784 | | 34.605 | 34.583 | 0.309 | 27.662 | 27.644 | 27.672 | 27.654 | |
| 3 | 1504.4 | 1522.3 | 2.309 | 2.207 | | 34.537 | 34.497 | 0.310 | 27.576 | 27.544 | 27.584 | 27.552 | |
| 4 | 1001.3 | 1012.0 | 3.283 | 3.212 | | 34.381 | 34.352 | 0.312 | 27.365 | 27.342 | 27.371 | 27.348 | |
| 5 | 499.8 | 504.5 | 5.179 | 5.138 | | 34.120 | 34.121 | 0.315 | 26.957 | 26.958 | 26.962 | 26.963 | |

VENTS 1994 - SURVEYOR
Station V94A14 Cast 20 23 APR 1994
LAT: 44 56.6N LONG: 130 12.9W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2233.4 | 2263.9 | 1.891 | 1.734 | | 34.617 | 34.587 | 0.323 | 27.673 | 27.649 | 27.685 | 27.661 | |
| 2 | 1988.0 | 2013.9 | 1.904 | 1.768 | | 34.607 | 34.581 | 0.316 | 27.664 | 27.644 | 27.675 | 27.654 | |
| 3 | 1500.6 | 1518.4 | 2.404 | 2.302 | | 34.534 | 34.511 | 0.311 | 27.565 | 27.547 | 27.574 | 27.556 | |
| 4 | 989.8 | 1000.3 | 3.311 | 3.241 | | 34.377 | 34.341 | 0.312 | 27.359 | 27.330 | 27.366 | 27.337 | |
| 5 | 498.9 | 503.6 | 5.014 | 4.974 | | 34.141 | 34.139 | 0.314 | 26.993 | 26.991 | 26.997 | 26.996 | |

VENTS 1994 - SURVEYOR
Station V94A15 Cast 21 24 APR 1994
LAT: 44 56.6N LONG: 130 11.3W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2267.5 | 2298.5 | 1.871 | 1.711 | | 34.620 | 34.586 | 0.315 | 27.677 | 27.650 | 27.690 | 27.662 | |
| 2 | 2001.1 | 2027.3 | 1.900 | 1.763 | | 34.609 | 34.556 | 0.316 | 27.666 | 27.624 | 27.677 | 27.634 | |
| 3 | 1502.8 | 1520.6 | 2.418 | 2.315 | | 34.533 | 34.519 | 0.310 | 27.563 | 27.552 | 27.572 | 27.561 | |
| 4 | 1005.4 | 1016.1 | 3.226 | 3.155 | | 34.388 | 34.340 | 0.312 | 27.376 | 27.337 | 27.382 | 27.344 | |
| 5 | 502.6 | 507.3 | 4.998 | 4.958 | | 34.149 | 34.146 | 0.313 | 27.001 | 26.999 | 27.006 | 27.003 | |

VENTS 1994 - SURVEYOR
Station V94A16 Cast 22 24 APR 1994
LAT: 44 55.63N LONG: 130 09.43W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2350.8 | 2383.5 | 1.825 | 1.658 | | 34.627 | 34.623 | 0.317 | 27.687 | 27.683 | 27.699 | 27.696 | |
| 2 | 1996.2 | 2022.2 | 1.913 | 1.776 | | 34.602 | 34.592 | 0.308 | 27.660 | 27.652 | 27.670 | 27.662 | |
| 3 | 1496.3 | 1514.0 | 2.468 | 2.365 | | 34.523 | 34.500 | 0.309 | 27.551 | 27.533 | 27.560 | 27.541 | |
| 4 | 998.0 | 1008.6 | 3.242 | 3.172 | | 34.387 | 34.364 | 0.312 | 27.373 | 27.355 | 27.380 | 27.362 | |
| 5 | 500.0 | 504.7 | 4.872 | 4.833 | | 34.126 | 34.123 | 0.312 | 26.997 | 26.995 | 27.001 | 26.999 | |

VENTS 1994 - SURVEYOR
Station V94A17 Cast 23 24 APR 1994
LAT: 44 55.44N LONG: 130 08.00W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2336.2 | 2368.6 | 1.824 | 1.659 | | 34.625 | 34.621 | 0.316 | 27.685 | 27.682 | 27.698 | 27.694 | |
| 2 | 1996.0 | 2022.1 | 1.898 | 1.761 | | 34.603 | 34.591 | 0.310 | 27.662 | 27.652 | 27.672 | 27.663 | |
| 3 | 1499.1 | 1516.9 | 2.436 | 2.333 | | 34.527 | 34.499 | 0.309 | 27.557 | 27.535 | 27.566 | 27.543 | |
| 4 | 1002.0 | 1012.6 | 3.292 | 3.221 | | 34.381 | 34.373 | 0.311 | 27.364 | 27.358 | 27.371 | 27.364 | |
| 5 | 503.7 | 508.4 | 4.720 | 4.681 | | 34.079 | 34.074 | 0.312 | 26.977 | 26.973 | 26.981 | 26.977 | |

VENTS 1994 - SURVEYOR
Station V94A18 Cast 24 24 APR 1994
LAT: 44 54.4N LONG: 130 05.2W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2451.8 | 2486.4 | 1.782 | 1.607 | | 34.633 | 34.630 | 0.313 | 27.695 | 27.692 | 27.708 | 27.705 | |
| 2 | 1998.1 | 2024.2 | 1.902 | 1.765 | | 34.603 | 34.571 | 0.307 | 27.661 | 27.636 | 27.672 | 27.646 | |
| 3 | 1495.7 | 1513.4 | 2.413 | 2.311 | | 34.529 | 34.490 | 0.309 | 27.561 | 27.529 | 27.569 | 27.538 | |
| 4 | 984.9 | 995.3 | 3.264 | 3.195 | | 34.385 | 34.370 | 0.311 | 27.370 | 27.358 | 27.376 | 27.364 | |
| 5 | 498.7 | 503.4 | 4.760 | 4.721 | | 34.097 | 34.095 | 0.312 | 26.987 | 26.985 | 26.991 | 26.989 | |

VENTS 1994 - AII
Station V94B01 Cast 01 20 JUN 1994
LAT: 45 01.83N LONG: 130 13.31W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2313.2 | 2345.1 | 1.840 | 1.677 | | 34.625 | | 0.342 | 27.684 | | 27.696 | |
| 9 | 2248.3 | 2279.1 | 1.850 | 1.692 | | 34.623 | 34.621 | 0.342 | 27.681 | 27.680 | 27.693 | 27.692 |
| 8 | 2222.6 | 2252.8 | 1.857 | 1.701 | | 34.622 | | 0.343 | 27.680 | | 27.692 | |
| 7 | 2196.1 | 2225.9 | 1.863 | 1.710 | | 34.622 | | 0.344 | 27.680 | | 27.691 | |
| 6 | 2174.2 | 2203.5 | 1.862 | 1.711 | | 34.621 | | 0.342 | 27.679 | | 27.690 | |
| 5 | 2149.6 | 2178.5 | 1.860 | 1.711 | | 34.618 | 34.617 | 0.339 | 27.677 | 27.676 | 27.688 | 27.687 |
| 4 | 2104.7 | 2132.8 | 1.861 | 1.716 | | 34.615 | | 0.337 | 27.674 | | 27.685 | |
| 3 | 2051.4 | 2078.5 | 1.884 | 1.743 | | 34.608 | | 0.340 | 27.667 | | 27.678 | |
| 2 | 1940.5 | 1965.6 | 1.939 | 1.806 | | 34.597 | 34.598 | 0.336 | 27.654 | 27.654 | 27.664 | 27.665 |
| 1 | 1849.0 | 1872.5 | 1.999 | 1.873 | | 34.586 | | 0.337 | 27.640 | | 27.650 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 2.897659 | 189.0846 | 0 | |
| 3.038118 | 188.9202 | 0 | |
| 3.037057 | 189.1538 | 0 | |
| 3.001837 | 186.9994 | 0 | |
| 2.293176 | 175.4920 | 0 | |
| 2.941155 | 187.6657 | 0 | |
| 3.062094 | 184.5163 | 0 | |
| 3.148873 | 181.3669 | 0 | |
| 3.152692 | 181.6005 | 0 | |
| 3.024751 | 180.4411 | 0 | |

VENTS 1994 - AII
Station V94B02 Cast 02 21 JUN 1994
LAT: 44 59.33N LONG: 130 12.23W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2232.4 | 2262.8 | 1.866 | 1.709 | | 34.622 | | 0.346 | 27.679 | | 27.691 | |
| 9 | 2226.9 | 2257.3 | 1.865 | 1.709 | | 34.622 | | 0.345 | 27.679 | | 27.691 | |
| 8 | 2203.4 | 2233.3 | 1.869 | 1.715 | | 34.623 | | 0.343 | 27.680 | | 27.692 | |
| 7 | 2179.8 | 2209.2 | 1.868 | 1.716 | | 34.623 | | 0.343 | 27.680 | | 27.692 | |
| 6 | 2156.3 | 2185.3 | 1.866 | 1.716 | | 34.623 | | 0.343 | 27.680 | | 27.692 | |
| 5 | 2124.5 | 2152.9 | 1.867 | 1.720 | | 34.623 | | 0.343 | 27.680 | | 27.691 | |
| 4 | 2100.3 | 2128.2 | 1.866 | 1.721 | | 34.623 | | 0.343 | 27.680 | | 27.691 | |
| 3 | 2048.7 | 2075.7 | 1.865 | 1.724 | | 34.611 | | 0.336 | 27.671 | | 27.681 | |
| 2 | 1943.7 | 1968.8 | 1.926 | 1.793 | | 34.599 | | 0.336 | 27.656 | | 27.667 | |
| 1 | 1844.0 | 1867.4 | 2.003 | 1.878 | | 34.585 | | 0.336 | 27.639 | | 27.649 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.114928 | 187.3474 | 0 | 23.48 |
| 3.095180 | 187.6144 | 0 | 21.76 |
| 3.120343 | 185.4660 | 0 | 22.52 |
| 2.771255 | 183.8337 | 0 | 25.24 |
| 2.786437 | 187.3801 | 0 | 23.87 |
| 2.876470 | 186.0926 | 0 | 21.19 |
| 2.682072 | 182.9033 | 0 | 19.36 |
| 3.056534 | 182.4773 | 0 | 10.13 |
| 3.166527 | 183.7803 | 0 | 9.45 |
| 3.256559 | 182.4892 | 0 | 8.71 |

VENTS 1994 - AII
Station V94B02R Cast 03 21 JUN 1994
LAT: 44 59.27N LONG: 130 12.21W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2227.3 | 2257.6 | 1.865 | 1.709 | | 34.621 | 34.620 | 0.346 | 27.679 | 27.678 | 27.691 | 27.690 |
| 9 | 2224.7 | 2255.0 | 1.865 | 1.709 | | 34.622 | | 0.345 | 27.679 | | 27.691 | |
| 8 | 2198.0 | 2227.7 | 1.863 | 1.709 | | 34.622 | | 0.345 | 27.680 | | 27.691 | |
| 7 | 2179.1 | 2208.5 | 1.862 | 1.710 | | 34.622 | | 0.345 | 27.680 | | 27.691 | |
| 6 | 2151.1 | 2180.0 | 1.860 | 1.711 | | 34.621 | | 0.345 | 27.679 | | 27.690 | |
| 5 | 2126.2 | 2154.7 | 1.859 | 1.712 | | 34.620 | 34.618 | 0.344 | 27.678 | 27.677 | 27.690 | 27.688 |
| 4 | 2101.4 | 2129.4 | 1.857 | 1.712 | | 34.619 | | 0.342 | 27.678 | | 27.689 | |
| 3 | 2047.2 | 2074.2 | 1.867 | 1.726 | | 34.610 | | 0.337 | 27.670 | | 27.680 | |
| 2 | 1946.7 | 1971.9 | 1.939 | 1.806 | | 34.597 | | 0.336 | 27.654 | | 27.664 | |
| 1 | 1844.3 | 1867.7 | 2.008 | 1.883 | | 34.583 | 34.587 | 0.336 | 27.637 | 27.640 | 27.647 | 27.650 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.114928 | 187.3474 | 0 | |
| 3.095180 | 187.6144 | 0 | |
| 3.120343 | 185.4660 | 0 | |
| 2.771255 | 183.8337 | 0 | |
| 2.786437 | 187.3801 | 0 | |
| 2.876470 | 186.0926 | 0 | |
| 2.682072 | 182.9033 | 0 | |
| 3.056534 | 182.4773 | 0 | |
| 3.166527 | 183.7803 | 0 | |
| 3.256559 | 182.4892 | 0 | |

VENTS 1994 - AII
Station V94B03 Cast 04 21 JUN 1994
LAT: 44 54.0N LONG: 130 14.58W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2253.4 | 2284.2 | 1.852 | 1.694 | | 34.622 | 34.622 | 0.342 | 27.680 | 27.680 | 27.693 | 27.693 |
| 9 | 2200.0 | 2229.8 | 1.853 | 1.699 | | 34.622 | | 0.341 | 27.680 | | 27.692 | |
| 8 | 2227.1 | 2257.4 | 1.849 | 1.693 | | 34.622 | | 0.341 | 27.681 | | 27.693 | |
| 7 | 2174.0 | 2203.3 | 1.853 | 1.702 | | 34.622 | | 0.341 | 27.680 | | 27.692 | |
| 6 | 2150.3 | 2179.2 | 1.851 | 1.702 | | 34.622 | | 0.341 | 27.681 | | 27.692 | |
| 5 | 2129.6 | 2158.1 | 1.849 | 1.702 | | 34.622 | | 0.341 | 27.681 | | 27.692 | |
| 4 | 2103.6 | 2131.6 | 1.845 | 1.700 | | 34.616 | 34.616 | 0.388 | 27.676 | 27.676 | 27.687 | 27.687 |
| 3 | 2051.5 | 2078.5 | 1.867 | 1.726 | | 34.611 | | 0.336 | 27.670 | | 27.681 | |
| 2 | 1943.6 | 1968.8 | 1.951 | 1.818 | | 34.595 | 34.596 | 0.336 | 27.651 | 27.652 | 27.661 | 27.662 |
| 1 | 1848.1 | 1871.5 | 2.030 | 1.904 | | 34.581 | | 0.336 | 27.634 | | 27.644 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 2.873072 | 188.8845 | 0 | 15.48 |
| 2.973084 | 183.8277 | 0 | 16.23 |
| 2.973297 | 186.4980 | 0 | 18.43 |
| 2.704049 | 181.7801 | 0 | 18.75 |
| 2.669331 | 182.9041 | 0 | 16.32 |
| 2.769344 | 183.3410 | 0 | 18.50 |
| 2.729636 | 181.3692 | 0 | 18.45 |
| 2.984339 | 181.1172 | 0 | 8.44 |
| 2.969581 | 181.3816 | 0 | 8.38 |
| 3.054623 | 179.9234 | 0 | 7.83 |

VENTS 1994 - AII
Station V94B04 Cast 05 22 JUN 1994
LAT: 44 57.83N LONG: 130 13.02W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2252.3 | 2283.1 | 1.870 | 1.711 | | 34.622 | 34.621 | 0.345 | 27.679 | 27.678 | 27.691 | 27.690 |
| 9 | 2224.7 | 2255.0 | 1.867 | 1.711 | | 34.622 | | 0.343 | 27.679 | | 27.691 | |
| 8 | 2201.2 | 2231.0 | 1.865 | 1.711 | | 34.621 | | 0.343 | 27.679 | | 27.690 | |
| 7 | 2175.6 | 2204.9 | 1.877 | 1.725 | | 34.622 | | 0.344 | 27.679 | | 27.690 | |
| 6 | 2149.0 | 2177.8 | 1.874 | 1.725 | | 34.621 | | 0.346 | 27.678 | | 27.689 | |
| 5 | 2124.0 | 2152.4 | 1.878 | 1.731 | | 34.621 | 34.619 | 0.346 | 27.678 | 27.676 | 27.689 | 27.687 |
| 4 | 2098.5 | 2126.4 | 1.876 | 1.731 | | 34.621 | | 0.344 | 27.678 | | 27.689 | |
| 3 | 1997.9 | 2023.9 | 1.910 | 1.773 | | 34.603 | | 0.336 | 27.661 | | 27.671 | |
| 2 | 1948.2 | 1973.5 | 1.941 | 1.808 | | 34.597 | | 0.337 | 27.653 | | 27.664 | |
| 1 | 1844.8 | 1868.2 | 2.019 | 1.893 | | 34.582 | 34.581 | 0.337 | 27.635 | 27.635 | 27.645 | 27.644 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.115246 | 186.4701 | 0 | 17.32 |
| 3.115459 | 187.0776 | 0 | 19.48 |
| 2.856191 | 190.7648 | 0 | 18.19 |
| 3.016083 | 184.0157 | 0 | 25.73 |
| 2.981366 | 184.9652 | 0 | 20.67 |
| 3.016508 | 188.4844 | 0 | 22.07 |
| 2.966820 | 187.0377 | 0 | 22.40 |
| 3.166633 | 183.7043 | 0 | 8.59 |
| 3.002175 | 182.5974 | 0 | 7.55 |
| 3.206977 | 179.0881 | 0 | 9.29 |

VENTS 1994 - AII
Station T94B01 Cast 06 22 JUN 1994
LAT: 44 54.82N LONG: 130 06.51W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2156.0 | 2185.0 | 1.822 | 1.673 | | 34.621 | 34.62 | 0.335 | 27.682 | 27.681 | 27.693 | 27.692 |
| 9 | 2157.4 | 2186.4 | 1.822 | 1.673 | | 34.621 | | 0.336 | 27.682 | | 27.693 | |
| 8 | 2100.2 | 2128.1 | 1.862 | 1.717 | | 34.613 | | 0.335 | 27.672 | | 27.684 | |
| 7 | 2165.3 | 2194.5 | 1.835 | 1.685 | | 34.622 | | 0.338 | 27.682 | | 27.693 | |
| 6 | 2151.6 | 2180.5 | 1.838 | 1.689 | | 34.618 | | 0.335 | 27.678 | | 27.690 | |
| 5 | 2162.0 | 2191.0 | 1.856 | 1.706 | | 34.623 | 34.63 | 0.338 | 27.681 | 27.687 | 27.692 | 27.698 |
| 4 | 2164.0 | 2193.2 | 1.851 | 1.701 | | 34.621 | | 0.337 | 27.680 | | 27.691 | |
| 3 | 2165.1 | 2194.3 | 1.846 | 1.696 | | 34.620 | | 0.338 | 27.679 | | 27.691 | |
| 2 | 2089.8 | 2117.6 | 1.873 | 1.729 | | 34.621 | | 0.345 | 27.678 | | 27.689 | |
| 1 | 2158.9 | 2187.9 | 1.862 | 1.712 | | 34.620 | 34.62 | 0.342 | 27.678 | 27.678 | 27.690 | 27.690 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 2.927179 | 186.0153 | 0 | |
| 0.000000 | 186.7000 | 0 | |
| 2.941923 | 182.2818 | 0 | |
| 2.976795 | 186.8788 | 0 | |
| 2.976667 | 185.1822 | 0 | |
| 2.981538 | 186.7175 | 0 | |
| | | 0 | |
| 3.141410 | 186.0414 | 0 | |
| 2.986282 | 184.6850 | 0 | |
| 2.991154 | 180.2667 | | |

VENTS 1994 - AII
Station T94B03 Cast 08 23 JUN 1994
LAT: 45 00.01N LONG: 130 11.92W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2206.2 | 2236.1 | 1.865 | 1.711 | | 34.620 | 34.617 | 0.343 | 27.678 | 27.675 | 27.690 | 27.687 |
| 9 | 2215.2 | 2245.3 | 1.858 | 1.703 | | 34.622 | | 0.342 | 27.680 | | 27.692 | |
| 8 | 2114.7 | 2142.9 | 1.859 | 1.713 | | 34.619 | | 0.343 | 27.677 | | 27.689 | |
| 7 | 2079.6 | 2107.2 | 1.855 | 1.712 | | 34.613 | 34.616 | 0.335 | 27.673 | 27.675 | 27.684 | 27.686 |
| 6 | 2192.9 | 2222.6 | 1.839 | 1.686 | | 34.621 | | 0.339 | 27.681 | | 27.692 | |
| 5 | 2147.7 | 2176.5 | 1.849 | 1.700 | | 34.621 | | 0.341 | 27.680 | | 27.691 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 0.000000 | 0.0000 | 0 | 19.09 |
| 2.777564 | 183.7909 | 0 | 15.42 |
| 2.972692 | 187.1885 | 0 | 17.77 |
| 2.922821 | 185.4831 | 0 | 9.35 |
| 2.842949 | 187.1798 | 0 | 12.50 |
| 3.068077 | 184.1136 | 0 | 16.82 |

VENTS 1994 - AII
Station V94B05 Cast 09 24 JUN 1994
LAT: 44 38.58N LONG: 130 22.76W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2191.5 | 2221.0 | 1.884 | 1.731 | | 34.618 | 34.615 | 0.347 | 27.675 | 27.672 | 27.687 | 27.684 |
| 9 | 2126.3 | 2154.6 | 1.892 | 1.744 | | 34.616 | | 0.354 | 27.673 | | 27.684 | |
| 8 | 2101.0 | 2128.9 | 1.887 | 1.741 | | 34.616 | | 0.351 | 27.673 | | 27.684 | |
| 7 | 2101.5 | 2129.4 | 1.887 | 1.741 | | 34.616 | | 0.351 | 27.673 | | 27.684 | |
| 6 | 2074.8 | 2102.3 | 1.885 | 1.742 | | 34.615 | | 0.354 | 27.672 | | 27.683 | |
| 5 | 2050.9 | 2077.8 | 1.888 | 1.747 | | 34.615 | 34.623 | 0.362 | 27.672 | 27.678 | 27.683 | 27.689 |
| 4 | 2050.9 | 2077.9 | 1.887 | 1.746 | | 34.615 | | 0.352 | 27.672 | | 27.683 | |
| 3 | 2050.8 | 2077.8 | 1.886 | 1.745 | | 34.615 | | 0.356 | 27.672 | | 27.683 | |
| 2 | 2027.9 | 2054.4 | 1.892 | 1.753 | | 34.613 | | 0.352 | 27.670 | | 27.681 | |
| 1 | 2001.0 | 2027.0 | 1.891 | 1.754 | | 34.612 | | 0.348 | 27.669 | | 27.680 | |
| 12 | 1950.6 | 1975.8 | 1.917 | 1.784 | | 34.602 | | 0.338 | 27.659 | | 27.670 | |
| 11 | 1871.8 | 1895.6 | 1.982 | 1.855 | | 34.588 | 34.616 | 0.336 | 27.643 | 27.665 | 27.653 | 27.675 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 2.504359 | 180.1577 | 0 | 21.71 |
| 2.934231 | 183.5641 | 0 | 33.93 |
| 2.874103 | 182.5478 | 0 | 28.77 |
| | | 0 | |
| | | 0 | 24.02 |
| 5.148974 | 178.4698 | 0 | 36.51 |
| 3.078846 | 188.3400 | 0 | |
| 3.053718 | 184.9423 | 0 | |
| 2.613590 | 178.9932 | 0 | 29.82 |
| | | 0 | 21.54 |
| 2.963462 | 185.4613 | 0 | 12.98 |
| 3.223333 | 183.0843 | 0 | 12.11 |

VENTS 1994 - AII
Station V94B06 Cast 10 27 JUN 1994
LAT: 44 40.65N LONG: 130 21.45W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2157.4 | 2186.4 | 1.890 | 1.740 | | 34.615 | 34.616 | 0.346 | 27.672 | 27.673 | 27.683 | 27.684 |
| 9 | 2124.4 | 2152.8 | 1.889 | 1.741 | | 34.615 | | 0.345 | 27.672 | | 27.683 | |
| 8 | 2099.7 | 2127.5 | 1.886 | 1.741 | | 34.615 | | 0.346 | 27.672 | | 27.683 | |
| 7 | 2074.0 | 2101.4 | 1.885 | 1.742 | | 34.615 | | 0.346 | 27.672 | | 27.683 | |
| 6 | 2049.3 | 2076.3 | 1.884 | 1.743 | | 34.614 | | 0.346 | 27.672 | | 27.682 | |
| 5 | 2023.3 | 2049.8 | 1.884 | 1.745 | | 34.612 | | 0.343 | 27.670 | | 27.681 | |
| 4 | 2000.5 | 2026.6 | 1.888 | 1.751 | | 34.610 | | 0.341 | 27.668 | | 27.679 | |
| 3 | 1951.0 | 1976.2 | 1.908 | 1.775 | | 34.605 | | 0.338 | 27.662 | | 27.673 | |
| 2 | 1900.7 | 1925.1 | 1.937 | 1.808 | | 34.598 | | 0.337 | 27.655 | | 27.665 | |
| 1 | 1802.7 | 1825.3 | 2.047 | 1.924 | | 34.577 | | 0.336 | 27.629 | | 27.639 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.138219 | 190.2955 | 0 | 17.97 |
| 3.139025 | 186.2203 | 0 | 20.79 |
| 3.070251 | 176.5727 | 0 | 20.08 |
| 3.145607 | 188.0140 | 0 | 20.68 |
| 3.106653 | 189.4718 | 0 | 19.21 |
| 3.132309 | 186.4613 | 0 | 15.65 |
| 3.123175 | 186.4228 | 0 | 12.65 |
| 3.178651 | 189.1917 | 0 | 12.09 |
| 3.184427 | 185.0236 | 0 | 8.34 |
| 3.274693 | 182.3383 | 0 | 7.75 |

VENTS 1994 - AII
Station T94B04 Cast 11 27 JUN 1994
LAT: 44 45.9N LONG: 130 18.22W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2064.3 | 2091.6 | 1.874 | 1.732 | | 34.614 | 34.614 | 0.343 | 27.672 | 27.672 | 27.683 | 27.683 |
| 9 | 2223.9 | 2254.1 | 1.877 | 1.721 | | 34.617 | | 0.340 | 27.674 | | 27.686 | |
| 8 | 2169.4 | 2198.6 | 1.885 | 1.734 | | 34.615 | 34.618 | 0.342 | 27.672 | 27.675 | 27.684 | 27.686 |
| 7 | 2149.0 | 2177.8 | 1.885 | 1.735 | | 34.615 | | 0.341 | 27.672 | | 27.684 | |
| 6 | 2147.8 | 2176.6 | 1.888 | 1.738 | | 34.616 | | 0.344 | 27.673 | | 27.684 | |
| 5 | 2153.4 | 2182.3 | 1.889 | 1.739 | | 34.616 | 34.620 | 0.346 | 27.673 | 27.676 | 27.684 | 27.687 |
| 4 | 2188.3 | 2217.9 | 1.891 | 1.738 | | 34.616 | | 0.345 | 27.673 | | 27.684 | |
| 3 | 2151.4 | 2180.3 | 1.887 | 1.737 | | 34.617 | | 0.347 | 27.674 | | 27.685 | |
| 2 | 2166.5 | 2195.6 | 1.891 | 1.740 | | 34.617 | | 0.348 | 27.673 | | 27.685 | |
| 1 | 2169.2 | 2198.4 | 1.890 | 1.738 | | 34.617 | 34.604 | 0.347 | 27.673 | 27.663 | 27.685 | 27.675 |
| 11 | 2170.8 | 2200.0 | 1.890 | 1.738 | | 34.617 | | 0.347 | 27.673 | | 27.685 | |
| 12 | 2137.1 | 2165.7 | 1.904 | 1.755 | | 34.616 | | 0.352 | 27.672 | | 27.683 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.063132 | 183.8669 | 0 | 15.63 |
| 3.108668 | 183.3321 | 0 | 13.59 |
| 2.875884 | 123.9526 | 0 | 16.64 |
| 2.911480 | 182.0670 | 0 | 18.42 |
| 2.842706 | 181.3358 | 0 | 23.33 |
| 3.022432 | 187.9887 | 0 | 25.40 |
| 3.092818 | 187.6256 | 0 | 24.38 |
| 3.058834 | 188.8888 | 0 | 27.21 |
| 3.208739 | 188.3393 | 0 | |
| 3.075355 | 185.2344 | 0 | |
| 3.071191 | 185.2153 | 0 | 38.00 |
| 3.255887 | 186.8414 | 0 | 9.36 |

VENTS 1994 - AII
Station V94B07 Cast 12 28 JUN 1994
LAT: 44 37.21N LONG: 130 23.04W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2188.7 | 2218.2 | 1.907 | 1.754 | | 34.616 | 34.619 | 0.352 | 27.671 | 27.674 | 27.683 | 27.686 |
| 9 | 2176.0 | 2205.3 | 1.903 | 1.751 | | 34.616 | 34.614 | 0.350 | 27.672 | 27.670 | 27.683 | 27.682 |
| 8 | 2150.1 | 2178.9 | 1.902 | 1.752 | | 34.616 | 34.620 | 0.350 | 27.672 | 27.675 | 27.683 | 27.687 |
| 7 | 2124.9 | 2153.2 | 1.897 | 1.749 | | 34.615 | 34.608 | 0.351 | 27.671 | 27.666 | 27.683 | 27.677 |
| 6 | 2100.0 | 2127.9 | 1.896 | 1.750 | | 34.615 | | 0.351 | 27.671 | | 27.683 | |
| 5 | 2075.5 | 2103.0 | 1.895 | 1.752 | | 34.615 | 34.611 | 0.352 | 27.671 | 27.668 | 27.683 | 27.679 |
| 4 | 2049.9 | 2076.9 | 1.893 | 1.752 | | 34.615 | 34.628 | 0.352 | 27.672 | 27.682 | 27.683 | 27.693 |
| 3 | 2025.4 | 2051.9 | 1.888 | 1.749 | | 34.612 | 34.613 | 0.345 | 27.670 | 27.670 | 27.680 | 27.681 |
| 2 | 1974.7 | 2000.4 | 1.898 | 1.763 | | 34.607 | 34.605 | 0.339 | 27.665 | 27.663 | 27.675 | 27.674 |
| 1 | 1869.9 | 1893.7 | 1.969 | 1.842 | | 34.590 | 34.600 | 0.335 | 27.646 | 27.654 | 27.656 | 27.664 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.06528 | 187.9065 | 0 | 30.88 |
| 3.10992 | 188.1441 | 0 | 30.59 |
| 3.10992 | 189.6015 | 0 | 31.41 |
| 3.06528 | 190.5384 | 0 | 32.70 |
| | | 0 | |
| 3.09504 | 191.8262 | 0 | 35.08 |
| 3.05040 | 190.8433 | 0 | 34.73 |
| 3.07520 | 185.8311 | 0 | 22.77 |
| 3.09504 | 185.8896 | 0 | 15.91 |
| 3.11488 | 184.5439 | | 9.21 |

VENTS 1994 - AII
Station V94B08 Cast 13 30 JUN 1994
LAT: 46 31.31N LONG: 129 34.67W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2426.5 | 2461.1 | 1.809 | 1.636 | | 34.626 | 34.625 | 0.341 | 27.687 | 27.686 | 27.700 | 27.699 |
| 9 | 2357.5 | 2390.7 | 1.832 | 1.665 | | 34.623 | | 0.339 | 27.683 | | 27.695 | |
| 8 | 2304.1 | 2336.2 | 1.835 | 1.672 | | 34.620 | | 0.340 | 27.680 | | 27.693 | |
| 7 | 2247.6 | 2278.7 | 1.842 | 1.684 | | 34.619 | | 0.339 | 27.679 | | 27.691 | |
| 6 | 2203.7 | 2233.9 | 1.856 | 1.702 | | 34.616 | | 0.338 | 27.675 | | 27.687 | |
| 5 | 2152.0 | 2181.2 | 1.881 | 1.731 | | 34.612 | 34.612 | 0.338 | 27.670 | 27.670 | 27.682 | 27.682 |
| 4 | 2103.8 | 2132.1 | 1.901 | 1.755 | | 34.607 | | 0.339 | 27.665 | | 27.676 | |
| 3 | 1999.9 | 2026.3 | 1.931 | 1.793 | | 34.601 | | 0.338 | 27.657 | | 27.668 | |
| 2 | 1900.9 | 1925.5 | 1.978 | 1.848 | | 34.591 | | 0.337 | 27.646 | | 27.656 | |
| 1 | 1799.6 | 1822.5 | 2.046 | 1.924 | | 34.579 | | 0.338 | 27.631 | | 27.640 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.21408 | 187.0128 | 0 | 11.43 |
| 2.96112 | 190.0012 | 0 | 9.09 |
| 3.09504 | 189.2113 | 0 | 8.96 |
| 3.01568 | 189.2803 | 0 | 9.41 |
| 3.18928 | 188.3142 | 0 | 11.67 |
| 3.14960 | 196.8407 | 0 | 7.70 |
| 3.02064 | 186.8923 | 0 | 8.54 |
| 3.12480 | 185.5724 | 0 | 7.70 |
| 3.15456 | 184.0757 | 0 | 7.23 |
| 3.26368 | 183.2688 | 0 | 8.75 |

VENTS 1994 - AII
Station T94B05 Cast 14 01 JUL 1994
LAT: 46 21.54N LONG: 129 40.89W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2137.7 | 2166.6 | 1.911 | 1.762 | | 34.610 | 34.613 | 0.338 | 27.666 | 27.669 | 27.678 | 27.680 |
| 9 | 2121.6 | 2150.3 | 1.915 | 1.767 | | 34.609 | | 0.341 | 27.665 | | 27.677 | |
| 8 | 2119.4 | 2148.0 | 1.919 | 1.771 | | 34.610 | | 0.342 | 27.666 | | 27.677 | |
| 7 | 2184.3 | 2214.1 | 1.915 | 1.762 | | 34.611 | | 0.341 | 27.667 | | 27.679 | |
| 6 | 2095.3 | 2123.4 | 1.919 | 1.773 | | 34.609 | 34.610 | 0.342 | 27.665 | 27.666 | 27.676 | 27.677 |
| 5 | 2119.1 | 2147.7 | 1.918 | 1.770 | | 34.610 | | 0.349 | 27.666 | | 27.677 | |
| 4 | 2216.4 | 2246.8 | 1.910 | 1.754 | | 34.612 | | 0.349 | 27.668 | | 27.680 | |
| 3 | 2087.9 | 2115.9 | 1.917 | 1.772 | | 34.609 | | 0.375 | 27.665 | | 27.676 | |
| 2 | 2088.1 | 2116.1 | 1.919 | 1.774 | | 34.609 | | 0.385 | 27.665 | | 27.676 | |
| 1 | 2093.0 | 2121.1 | 1.927 | 1.782 | | 34.609 | 34.606 | 0.412 | 27.664 | 27.662 | 27.675 | 27.673 |
| 11 | 2126.6 | 2155.3 | 1.924 | 1.776 | | 34.610 | | 0.370 | 27.665 | | 27.677 | |
| 12 | 2136.3 | 2165.2 | 1.946 | 1.796 | | 34.608 | | 0.337 | 27.662 | | 27.673 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.12976 | 186.6853 | 0 | 10.69 |
| 3.20416 | 187.2657 | 0 | 11.84 |
| 3.15952 | 189.5430 | 0 | 13.40 |
| 3.12480 | 189.9573 | 0 | 12.63 |
| 3.16448 | 191.5622 | 0 | 12.68 |
| 3.14960 | 187.8937 | 0 | |
| 3.14960 | 187.1130 | 0 | 13.21 |
| 3.19920 | 184.9649 | 0 | 19.06 |
| 3.06032 | 186.0569 | 0 | |
| 3.15952 | 187.6640 | 0 | 24.34 |
| 3.15952 | 186.1923 | 0 | 15.30 |
| 3.11488 | 185.0595 | 0 | 10.30 |

VENTS 1994 - AII
Station T94B06 Cast 15 02 JUL 1994
LAT: 46 02.50N LONG: 130 00.80W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 1491.6 | 1509.4 | 2.387 | 2.286 | | 34.523 | 34.528 | 0.341 | 27.558 | 27.562 | 27.567 | 27.571 |
| 9 | 1480.6 | 1498.3 | 2.408 | 2.307 | | 34.520 | | 0.343 | 27.554 | | 27.562 | |
| 8 | 1443.4 | 1460.5 | 2.417 | 2.319 | | 34.521 | | 0.381 | 27.554 | | 27.562 | |
| 7 | 1120.3 | 1132.6 | 3.096 | 3.017 | | 34.415 | | 0.337 | 27.409 | | 27.417 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.217224 | 177.2653 | 0 | 14.44 |
| 3.232494 | 175.6640 | 0 | 13.08 |
| 3.207523 | 177.1348 | 0 | 23.50 |

VENTS 1994 - AII
Station T94B07 Cast 16 03 JUL 1994
LAT: 46 08.18N LONG: 129 46.27W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2062.7 | 2090.2 | 1.948 | 1.805 | | 34.604 | 34.606 | 0.336 | 27.659 | 27.660 | 27.670 | 27.671 |
| 9 | 2055.1 | 2082.4 | 1.945 | 1.803 | | 34.603 | | 0.336 | 27.658 | | 27.669 | |
| 8 | 2058.0 | 2085.4 | 1.945 | 1.802 | | 34.603 | | 0.336 | 27.658 | | 27.669 | |
| 7 | 1989.2 | 2015.4 | 1.998 | 1.860 | | 34.602 | | 0.340 | 27.653 | | 27.664 | |
| 6 | 1969.3 | 1995.1 | 1.981 | 1.845 | | 34.597 | | 0.338 | 27.650 | | 27.661 | |
| 5 | 1961.9 | 1987.5 | 1.982 | 1.847 | | 34.598 | | 0.339 | 27.651 | | 27.662 | |
| 4 | 2006.4 | 2032.8 | 1.964 | 1.825 | | 34.598 | | 0.340 | 27.652 | | 27.663 | |
| 3 | 2190.5 | 2220.3 | 1.949 | 1.795 | | 34.604 | | 0.337 | 27.658 | | 27.670 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.100276 | 187.4138 | 0 | 10.69 |
| 3.125606 | 190.2465 | 0 | 9.68 |
| 2.974886 | 188.3147 | 0 | 10.26 |
| 3.100815 | 188.4250 | 0 | 10.94 |
| 3.095965 | 188.7057 | 0 | 13.93 |
| 3.111235 | 186.9410 | 0 | 8.94 |
| 3.091294 | 189.0971 | 0 | 7.45 |

VENTS 1994 - AII
Station V94B09 Cast 17 03 JUL 1994
LAT: 46 08.82N LONG: 129 48.40W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2096.1 | 2124.2 | 1.954 | 1.808 | | 34.603 | 34.57 | 0.341 | 27.657 | 27.631 | 27.669 | 27.642 |
| 9 | 2077.2 | 2104.9 | 1.951 | 1.807 | | 34.602 | | 0.339 | 27.657 | | 27.668 | |
| 8 | 2054.9 | 2082.2 | 1.950 | 1.807 | | 34.602 | | 0.338 | 27.657 | | 27.668 | |
| 7 | 2027.2 | 2054.1 | 1.946 | 1.806 | | 34.601 | | 0.338 | 27.656 | | 27.667 | |
| 6 | 2000.4 | 2026.7 | 1.948 | 1.810 | | 34.600 | | 0.337 | 27.655 | | 27.666 | |
| 5 | 1973.5 | 1999.4 | 1.954 | 1.818 | | 34.597 | | 0.337 | 27.652 | | 27.663 | |
| 4 | 1947.8 | 1973.2 | 1.956 | 1.823 | | 34.596 | | 0.337 | 27.652 | | 27.662 | |
| 3 | 1901.2 | 1925.8 | 1.971 | 1.841 | | 34.593 | | 0.336 | 27.648 | | 27.658 | |
| 2 | 1852.5 | 1876.2 | 1.993 | 1.867 | | 34.589 | | 0.338 | 27.643 | | 27.653 | |
| 1 | 1757.5 | 1779.6 | 2.078 | 1.959 | | 34.573 | | 0.337 | 27.623 | | 27.633 | |
| 11 | 1748.8 | 1770.8 | 2.079 | 1.960 | | 34.573 | | 0.333 | 27.623 | | 27.633 | |
| 12 | 2014.8 | 2041.4 | 1.948 | 1.809 | | 34.599 | | 0.337 | 27.655 | | 27.665 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.165307 | 181.9253 | 181.9253 | 14.23 |
| 3.256027 | 124.0535 | 124.0535 | 10.47 |

VENTS 1994 - AII
Station V94B09R Cast 18 05 JUL 1994
LAT: 46 09.17N LONG: 129 48.61W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2067.1 | 2094.6 | 1.950 | 1.806 | | 34.603 | 34.600 | 0.337 | 27.658 | 27.655 | 27.669 | 27.666 |
| 9 | 2056.4 | 2083.8 | 1.949 | 1.806 | | 34.603 | | 0.338 | 27.658 | | 27.669 | |
| 8 | 2028.7 | 2055.6 | 1.945 | 1.805 | | 34.602 | | 0.337 | 27.657 | | 27.668 | |
| 7 | 2001.8 | 2028.2 | 1.945 | 1.807 | | 34.600 | | 0.336 | 27.656 | | 27.666 | |
| 6 | 1974.5 | 2000.4 | 1.952 | 1.816 | | 34.598 | 34.594 | 0.336 | 27.653 | 27.650 | 27.664 | 27.661 |
| 5 | 1951.4 | 1976.9 | 1.964 | 1.830 | | 34.595 | | 0.336 | 27.650 | | 27.660 | |
| 4 | 1924.9 | 1949.9 | 1.969 | 1.837 | | 34.594 | | 0.336 | 27.649 | | 27.659 | |
| 3 | 1899.7 | 1924.3 | 2.005 | 1.875 | | 34.595 | | 0.340 | 27.647 | | 27.657 | |
| 2 | 1874.2 | 1898.3 | 2.006 | 1.878 | | 34.591 | | 0.338 | 27.644 | | 27.654 | |
| 1 | 1851.4 | 1875.1 | 2.017 | 1.891 | | 34.585 | | 0.336 | 27.638 | | 27.648 | |
| 11 | 1797.2 | 1820.0 | 2.058 | 1.936 | | 34.577 | 34.575 | 0.337 | 27.628 | 27.627 | 27.638 | 27.636 |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 3.119678 | 183.7478 | 0 | 37.33 |
| 3.134588 | 180.7537 | 0 | 13.09 |
| 3.038839 | 187.4332 | 0 | 16.43 |
| 3.003449 | 187.3231 | 0 | 12.09 |
| 3.189379 | 185.5179 | 0 | 12.64 |
| | | 0 | |
| 3.199260 | 185.2391 | 0 | 12.20 |
| 3.043150 | 185.8074 | 0 | 12.04 |
| 3.093270 | 184.8514 | 0 | 12.76 |
| 3.133331 | 185.5885 | 0 | 18.75 |
| 3.092911 | 187.0016 | | 10.87 |

VENTS 1994 - AII
Station T94B08 Cast 19 05 JUL 1994
LAT: 46 06.53N LONG: 129 50.03W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 1937.6 | 1962.8 | 2.005 | 1.872 | | 34.591 | 34.59 | 0.339 | 27.644 | 27.643 | 27.654 | 27.653 |
| 9 | 1891.4 | 1915.8 | 1.997 | 1.868 | | 34.588 | | 0.335 | 27.642 | | 27.652 | |
| 8 | 1914.9 | 1939.7 | 1.989 | 1.858 | | 34.590 | | 0.335 | 27.644 | | 27.654 | |
| 7 | 2027.9 | 2054.7 | 1.973 | 1.832 | | 34.596 | | 0.337 | 27.650 | | 27.661 | |
| 6 | 1990.3 | 2016.5 | 1.978 | 1.841 | | 34.596 | | 0.341 | 27.650 | | 27.660 | |
| 5 | 1992.7 | 2018.9 | 1.967 | 1.830 | | 34.597 | | 0.342 | 27.651 | | 27.662 | |
| 4 | 1913.6 | 1938.4 | 1.997 | 1.866 | | 34.596 | | 0.338 | 27.648 | | 27.659 | |
| 3 | 2070.7 | 2098.3 | 1.948 | 1.804 | | 34.602 | | 0.335 | 27.657 | | 27.668 | |
| 2 | 1999.8 | 2026.2 | 1.939 | 1.801 | | 34.600 | | 0.335 | 27.656 | | 27.667 | |
| 1 | 2087.5 | 2115.5 | 1.938 | 1.793 | | 34.604 | | 0.335 | 27.659 | | 27.671 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 1.752955 | 180.4049 | 0 | 8.31 |
| 2.205835 | 183.0389 | 0 | 10.00 |
| 1.436424 | 181.2939 | 0 | 7.62 |
| 1.491934 | 183.7619 | 0 | 10.45 |
| 2.045414 | 184.3767 | 0 | 10.88 |
| 2.442963 | 186.1730 | 0 | 10.96 |
| 2.699673 | 184.5949 | 0 | 11.17 |
| 1.336723 | 184.8729 | 0 | 11.60 |
| 1.839902 | 184.9821 | 0 | 10.00 |
| 2.856142 | 188.8097 | 0 | 9.93 |

VENTS 1994 - AII
Station V94B10 Cast 20 07 JUL 1994
LAT: 46 18.45N LONG: 129 42.50W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 2200.7 | 2230.7 | 1.926 | 1.771 | | 34.610 | 34.608 | 0.373 | 27.665 | 27.663 | 27.677 | 27.675 |
| 9 | 2171.8 | 2201.3 | 1.926 | 1.774 | | 34.610 | | 0.367 | 27.665 | | 27.677 | |
| 8 | 2152.6 | 2181.8 | 1.927 | 1.776 | | 34.609 | | 0.372 | 27.664 | | 27.676 | |
| 7 | 2124.1 | 2152.7 | 1.928 | 1.780 | | 34.608 | | 0.347 | 27.663 | | 27.675 | |
| 6 | 2101.3 | 2129.5 | 1.926 | 1.780 | | 34.608 | | 0.346 | 27.663 | | 27.675 | |
| 5 | 2082.0 | 2109.9 | 1.924 | 1.780 | | 34.607 | | 0.347 | 27.663 | | 27.674 | |
| 4 | 2053.9 | 2081.3 | 1.923 | 1.781 | | 34.606 | | 0.352 | 27.662 | | 27.673 | |
| 3 | 2037.8 | 2064.9 | 1.926 | 1.785 | | 34.606 | | 0.380 | 27.662 | | 27.673 | |
| 2 | 1974.8 | 2000.7 | 1.943 | 1.807 | | 34.599 | | 0.337 | 27.655 | | 27.665 | |
| 1 | 1848.9 | 1872.7 | 2.001 | 1.875 | | 34.587 | | 0.336 | 27.641 | | 27.651 | |

| PO4-UNF (umol/L) | SiO4-UNF (umol/L) | NO3-UNF (umol/L) | TSM (ug/l) |
|---|---|---|---|
| 1.811339 | 187.4355 | 0 | |
| 1.283369 | 184.5286 | 0 | |
| 2.762368 | 188.4956 | 0 | |
| 2.797758 | 187.0966 | 0 | |
| 2.385478 | 185.1928 | 0 | |
| 2.440987 | 185.4704 | 0 | |
| 1.837567 | 183.3961 | 0 | |
| 2.154636 | 183.5049 | 0 | |
| 2.034096 | 181.7641 | 0 | |
| 2.481946 | 181.8723 | 0 | |

VENTS 1994 - LEG I
Station V94C01 Cast 01 29 JUL 1994
LAT: 44 57.9N LONG: 130 12.7W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2233.0 | 2263.4 | 1.879 | 1.722 | 0.042574 | 34.619 | 34.6175 | 0.367 | 27.676 | 27.675 | 27.688 | 27.687 |
| 2 | 2201.2 | 2231.0 | 1.880 | 1.726 | 0.048826 | 34.620 | 34.6166 | 0.368 | 27.677 | 27.674 | 27.688 | 27.686 |
| 3 | 2175.9 | 2205.2 | 1.886 | 1.734 | 0.050182 | 34.619 | 34.6164 | 0.368 | 27.675 | 27.673 | 27.687 | 27.685 |
| 4 | 2150.7 | 2179.6 | 1.884 | 1.734 | 0.050330 | 34.619 | 34.6149 | 0.367 | 27.676 | 27.672 | 27.687 | 27.684 |
| 5 | 2123.8 | 2152.1 | 1.880 | 1.733 | 0.045489 | 34.618 | 34.6135 | 0.368 | 27.675 | 27.671 | 27.686 | 27.683 |
| 6 | 2099.6 | 2127.5 | 1.878 | 1.733 | 0.034078 | 34.615 | 34.6107 | 0.367 | 27.673 | 27.669 | 27.684 | 27.681 |
| 7 | 2075.9 | 2103.4 | 1.875 | 1.732 | 0.018174 | 34.611 | 34.6074 | 0.359 | 27.670 | 27.667 | 27.681 | 27.678 |
| 8 | 2049.9 | 2076.9 | 1.885 | 1.744 | 0.014388 | 34.608 | 34.6047 | 0.358 | 27.667 | 27.664 | 27.677 | 27.675 |
| 9 | 2001.6 | 2027.7 | 1.893 | 1.756 | 0.014374 | 34.606 | 34.6029 | 0.358 | 27.664 | 27.662 | 27.675 | 27.672 |
| 10 | 1900.4 | 1924.8 | 1.943 | 1.814 | 0.008949 | 34.595 | 34.5909 | 0.358 | 27.652 | 27.648 | 27.662 | 27.658 |
| 11 | 1695.6 | 1716.5 | 2.114 | 1.999 | 0.010645 | 34.565 | 34.5615 | 0.358 | 27.614 | 27.611 | 27.623 | 27.620 |

| TSM (ug/l) |
|---|



D-Theta (rows 1 to 11) = (ptemp + (4.77851 * pden)) - 133.9867

VENTS 1994 - LEG I
Station T94C01 Cast 02 30 JUL 1994
LAT: 45 10.20N LONG: 130 06.24W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2144.5 | 2173.1 | 1.852 | 1.703 | 0.007870 | 34.614 | 34.6107 | 0.357 | 27.674 | 27.671 | 27.685 | 27.683 |
| 2 | 2212.1 | 2242.0 | 1.843 | 1.689 | 0.025405 | 34.621 | 34.6165 | 0.361 | 27.680 | 27.677 | 27.692 | 27.688 |
| 3 | 2176.8 | 2206.0 | 1.844 | 1.693 | 0.024161 | 34.620 | 34.6157 | 0.361 | 27.679 | 27.676 | 27.691 | 27.688 |
| 4 | 2155.5 | 2184.3 | 1.841 | 1.692 | 0.015759 | 34.618 | 34.6161 | 0.357 | 27.678 | 27.677 | 27.689 | 27.688 |
| 5 | 2192.6 | 2222.1 | 1.839 | 1.686 | 0.020136 | 34.620 | 34.6172 | 0.358 | 27.680 | 27.678 | 27.691 | 27.689 |
| 6 | 2226.5 | 2256.6 | 1.845 | 1.689 | 0.025855 | 34.621 | 34.6179 | 0.359 | 27.680 | 27.678 | 27.692 | 27.690 |
| 7 | 2261.4 | 2292.2 | 1.853 | 1.694 | 0.028902 | 34.621 | 34.6161 | 0.357 | 27.680 | 27.676 | 27.692 | 27.688 |
| 8 | 2252.9 | 2283.6 | 1.852 | 1.694 | 0.028753 | 34.621 | 34.6162 | 0.358 | 27.680 | 27.676 | 27.692 | 27.688 |
| 9 | 2168.4 | 2197.4 | 1.861 | 1.710 | 0.031448 | 34.619 | 34.6144 | 0.358 | 27.677 | 27.674 | 27.689 | 27.685 |
| 10 | 2229.7 | 2259.9 | 1.867 | 1.711 | 0.039475 | 34.621 | | 0.359 | 27.678 | | 27.690 | |
| 11 | 2210.5 | 2240.4 | 1.867 | 1.712 | 0.036700 | 34.620 | | 0.359 | 27.678 | | 27.690 | |
| 12 | 2175.3 | 2204.5 | 1.867 | 1.715 | 0.038673 | 34.620 | | 0.360 | 27.678 | | 27.689 | |
| 13 | 2207.9 | 2237.6 | 1.875 | 1.720 | 0.045718 | 34.621 | 34.6161 | 0.360 | 27.678 | 27.674 | 27.690 | 27.686 |
| 14 | 2140.3 | 2168.8 | 1.883 | 1.734 | 0.046789 | 34.619 | 34.6148 | 0.364 | 27.676 | 27.672 | 27.687 | 27.684 |
| 15 | 2194.2 | 2223.8 | 1.841 | 1.688 | 0.021299 | 34.620 | | 0.357 | 27.680 | | 27.691 | |
| 16 | 2173.8 | 2203.0 | 1.839 | 1.688 | 0.017332 | 34.619 | | 0.356 | 27.679 | | 27.691 | |
| 17 | 1877.6 | 1901.4 | 1.967 | 1.839 | 0.009365 | 34.592 | | 0.353 | 27.647 | | 27.657 | |

| TSM (ug/l) |
|---|
| 13.33 |
| 16.24 |
| 27.07 |
| 15.31 |
| 13.22 |
| 22.00 |
| 14.26 |
| 40.00 |
| 17.37 |
| |
| |
| 19.58 |
| 20.07 |

D-Theta (rows 1 to 17) = (ptemp + (4.804634 * pden)) - 134.7135

VENTS 1994 - LEG I
Station T94C02 Cast 03 31 JUL 1994
LAT: 44 57.74N LONG: 130 12.46W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2178.2 | 2207.6 | 1.865 | 1.713 | 0.018589 | 34.618 | 34.5994 | 0.366 | 27.676 | 27.661 | 27.688 | 27.673 | 9.50 |
| 2 | 1939.7 | 1964.8 | 1.949 | 1.816 | 0.002800 | 34.596 | 34.5937 | 0.359 | 27.652 | 27.650 | 27.662 | 27.660 | 9.81 |
| 3 | 2055.0 | 2082.1 | 1.892 | 1.750 | 0.001513 | 34.607 | 34.6035 | 0.359 | 27.665 | 27.663 | 27.676 | 27.673 | 9.80 |
| 4 | 2128.6 | 2157.1 | 1.879 | 1.731 | 0.034042 | 34.619 | 34.6150 | 0.376 | 27.676 | 27.673 | 27.687 | 27.684 | 37.79 |
| 5 | 2118.5 | 2146.8 | 1.879 | 1.732 | 0.030867 | 34.618 | 34.6132 | 0.373 | 27.675 | 27.671 | 27.686 | 27.683 | 32.89 |
| 6 | 2075.8 | 2103.3 | 1.875 | 1.732 | 0.019483 | 34.615 | 34.6112 | 0.368 | 27.673 | 27.670 | 27.684 | 27.681 | 26.51 |
| 7 | 2133.1 | 2161.7 | 1.885 | 1.737 | 0.033861 | 34.618 | | 0.372 | 27.675 | | 27.686 | | |
| 8 | 2098.6 | 2126.5 | 1.877 | 1.732 | 0.023227 | 34.616 | 34.5877 | 0.374 | 27.674 | 27.651 | 27.685 | 27.662 | 36.77 |
| 9 | 2209.9 | 2239.9 | 1.872 | 1.717 | 0.017500 | 34.617 | 34.6134 | 0.361 | 27.675 | 27.672 | 27.687 | 27.684 | 15.69 |
| 10 | 2182.9 | 2212.4 | 1.875 | 1.723 | 0.020946 | 34.617 | | 0.363 | 27.675 | | 27.686 | | |

D-Theta (rows 1 to 10) = (ptemp + (4.668323 * pden)) - 130.9503

VENTS 1994 - LEG I
Station T94C03 Cast 04 01 AUG 1994
LAT: 45 06.48N LONG: 130 05.82W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1946.0 | 1971.2 | 1.937 | 1.804 | 0.012856 | 34.597 | 34.5939 | 0.358 | 27.654 | 27.651 | 27.664 | 27.662 | |
| 2 | 1963.8 | 1989.3 | 1.927 | 1.793 | 0.013325 | 34.599 | | 0.358 | 27.656 | | 27.667 | | |
| 3 | 2092.4 | 2120.3 | 1.873 | 1.728 | 0.011176 | 34.610 | 34.5949 | 0.357 | 27.669 | 27.657 | 27.680 | 27.668 | |
| 4 | 2312.9 | 2344.9 | 1.848 | 1.684 | 0.025241 | 34.621 | 34.6062 | 0.360 | 27.680 | 27.668 | 27.692 | 27.681 | |
| 5 | 2103.2 | 2131.2 | 1.870 | 1.725 | 0.010536 | 34.611 | 34.6188 | 0.356 | 27.670 | 27.676 | 27.681 | 27.688 | |
| 6 | 2187.6 | 2217.2 | 1.846 | 1.694 | 0.017588 | 34.618 | | 0.359 | 27.678 | | 27.689 | | |
| 7 | 1796.5 | 1819.1 | 2.050 | 1.928 | 0.010252 | 34.577 | | 0.358 | 27.629 | | 27.638 | | |



D-Theta (rows 1 to 2) = (ptemp + (4.783333 * pden)) - 134.1177
D-Theta (rows 3 to 4) = (ptemp + (4.783333 * pden)) - 134.1212
D-Theta (rows 5 to 6) = (ptemp + (4.783333 * pden)) - 134.1232

VENTS 1994 - LEG I
Station T94C04 Cast 05 01 AUG 1994
LAT: 45 01.20N LONG: 130 17.93W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2128.4 | 2156.9 | 1.880 | 1.732 | 0.028223 | 34.614 | 34.6106 | 0.369 | 27.672 | 27.669 | 27.683 | 27.680 |
| 2 | 2125.4 | 2153.8 | 1.882 | 1.734 | 0.033315 | 34.615 | 34.6122 | 0.371 | 27.673 | 27.670 | 27.684 | 27.682 |
| 3 | 2109.0 | 2137.1 | 1.880 | 1.734 | 0.032957 | 34.615 | 34.6121 | 0.372 | 27.673 | 27.670 | 27.684 | 27.682 |
| 4 | 2126.3 | 2154.7 | 1.884 | 1.736 | 0.030934 | 34.614 | 34.6125 | 0.370 | 27.672 | 27.670 | 27.683 | 27.682 |
| 5 | 2132.6 | 2161.1 | 1.884 | 1.736 | 0.026951 | 34.613 | 34.6131 | 0.366 | 27.671 | 27.671 | 27.682 | 27.682 |
| 6 | 2111.9 | 2140.0 | 1.880 | 1.734 | 0.011050 | 34.609 | 34.6078 | 0.356 | 27.668 | 27.667 | 27.679 | 27.678 |
| 7 | 2122.5 | 2150.9 | 1.876 | 1.729 | 0.015099 | 34.611 | 34.6093 | 0.358 | 27.670 | 27.668 | 27.681 | 27.680 |
| 8 | 2146.9 | 2175.7 | 1.876 | 1.727 | 0.020953 | 34.613 | 34.6140 | 0.360 | 27.671 | 27.672 | 27.683 | 27.684 |
| 9 | 2237.6 | 2268.1 | 1.845 | 1.688 | 0.013736 | 34.618 | 34.6132 | 0.357 | 27.678 | 27.674 | 27.690 | 27.686 |

| TSM (ug/l) |
|---|
| 22.75 |
| 28.65 |
| 31.71 |
| 26.75 |
| |
| 14.56 |
| 17.57 |
| 12.93 |
| 31.36 |

D-Theta (rows 1 to 9) = (ptemp + (4.521421 * pden)) - 126.87134

VENTS 1994 - LEG I
Station T94C05 Cast 06 02 AUG 1994
LAT: 44 50.36N LONG: 130 08.08W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2452.1 | 2486.8 | 1.787 | 1.612 | 0.012257 | 34.630 | 34.6290 | 0.362 | 27.692 | 27.691 | 27.705 | 27.704 |
| 2 | 2300.7 | 2332.4 | 1.803 | 1.641 | 0.005793 | 34.623 | 34.6216 | 0.355 | 27.685 | 27.684 | 27.697 | 27.696 |
| 3 | 2251.1 | 2281.9 | 1.809 | 1.652 | 0.005185 | 34.621 | 34.6164 | 0.355 | 27.683 | 27.679 | 27.695 | 27.691 |
| 4 | 2200.4 | 2230.3 | 1.824 | 1.671 | 0.006731 | 34.618 | 34.6131 | 0.355 | 27.679 | 27.675 | 27.691 | 27.687 |
| 5 | 2150.7 | 2179.6 | 1.843 | 1.694 | 0.007077 | 34.614 | 34.6077 | 0.355 | 27.675 | 27.670 | 27.686 | 27.681 |
| 6 | 2101.1 | 2129.0 | 1.860 | 1.715 | 0.006086 | 34.610 | 34.6078 | 0.355 | 27.670 | 27.668 | 27.681 | 27.680 |
| 7 | 2049.1 | 2076.1 | 1.884 | 1.743 | 0.005988 | 34.605 | 34.6036 | 0.355 | 27.664 | 27.663 | 27.675 | 27.674 |
| 8 | 2001.5 | 2027.6 | 1.908 | 1.771 | 0.005591 | 34.600 | 34.5986 | 0.355 | 27.658 | 27.657 | 27.669 | 27.668 |
| 9 | 1902.6 | 1927.0 | 1.966 | 1.836 | 0.011198 | 34.590 | 34.5879 | 0.355 | 27.646 | 27.644 | 27.656 | 27.654 |
| 10 | 1698.5 | 1719.5 | 2.122 | 2.007 | 0.010252 | 34.560 | 34.5579 | 0.356 | 27.609 | 27.608 | 27.619 | 27.617 |
| 11 | 2085.0 | 2112.6 | 1.865 | 1.721 | 0.028627 | 34.615 | 34.6109 | 0.359 | 27.674 | 27.671 | 27.685 | 27.682 |
| 12 | 2126.3 | 2154.7 | 1.872 | 1.725 | 0.034474 | 34.616 | 34.6137 | 0.363 | 27.674 | 27.672 | 27.685 | 27.684 |
| 13 | 2120.3 | 2148.6 | 1.876 | 1.729 | 0.041064 | 34.617 | 34.6136 | 0.366 | 27.675 | 27.672 | 27.686 | 27.683 |
| 14 | 2079.5 | 2107.0 | 1.879 | 1.735 | 0.030555 | 34.613 | 34.6101 | 0.368 | 27.671 | 27.669 | 27.682 | 27.680 |

| TSM (ug/l) |
|---|
| 17.63 |
| 12.00 |
| 15.32 |
| 9.24 |
| 9.53 |
| 8.38 |
| 9.54 |
| 10.17 |
| 8.38 |
| 12.16 |

D-Theta (rows 1 to 14) = (ptemp + (4.596212 * pden)) - 128.9379

VENTS 1994 - LEG I
Station T94C06 Cast 07 03 AUG 1994
LAT: 45 02.53N LONG: 130 10.42W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2208.8 | 2238.8 | 1.879 | 1.724 | 0.033347 | 34.617 | 34.6138 | 0.369 | 27.674 | 27.672 | 27.686 | 27.684 | 17.45 |
| 4 | 2195.9 | 2225.6 | 1.879 | 1.725 | 0.034091 | 34.617 | 34.6140 | 0.370 | 27.674 | 27.672 | 27.686 | 27.684 | 23.50 |
| 5 | 2148.4 | 2177.2 | 1.894 | 1.744 | 0.046408 | 34.617 | 34.6140 | 0.379 | 27.673 | 27.671 | 27.685 | 27.682 | 24.23 |
| 8 | 2044.5 | 2071.4 | 1.892 | 1.751 | 0.014055 | 34.607 | 34.6040 | 0.364 | 27.665 | 27.663 | 27.676 | 27.674 | 10.46 |
| 9 | 2000.2 | 2026.3 | 1.913 | 1.776 | 0.015176 | 34.603 | 34.5986 | 0.362 | 27.660 | 27.657 | 27.671 | 27.668 | 8.79 |
| 8 | 1949.7 | 1975.0 | 1.932 | 1.799 | 0.015310 | 34.599 | | 0.361 | 27.656 | | 27.666 | | |
| 11 | 1903.5 | 1928.0 | 1.948 | 1.818 | 0.013259 | 34.595 | 34.5926 | 0.362 | 27.651 | 27.649 | 27.661 | 27.659 | 8.99 |
| 12 | 1817.0 | 1839.9 | 2.017 | 1.894 | 0.013758 | 34.582 | 34.5768 | 0.362 | 27.635 | 27.631 | 27.645 | 27.641 | 8.90 |

D-Theta (rows 1 to 8) = (ptemp + (4.605867 * pden)) - 129.2098

VENTS 1994 - LEG I
Station T94C07 Cast 08 04 AUG 1994
LAT: 46 06.99N LONG: 129 49.62W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2051.0 | 2078.2 | 1.943 | 1.801 | 0.027905 | 34.603 | 34.5996 | 0.358 | 27.658 | 27.655 | 27.669 | 27.666 |
| 2 | 1953.0 | 1978.5 | 1.987 | 1.853 | 0.037647 | 34.597 | 34.5938 | 0.362 | 27.650 | 27.647 | 27.660 | 27.658 |
| 3 | 1962.2 | 1987.9 | 1.978 | 1.843 | 0.031538 | 34.597 | 34.5945 | 0.361 | 27.651 | 27.649 | 27.661 | 27.659 |
| 4 | 2089.0 | 2117.0 | 1.913 | 1.768 | 0.026451 | 34.608 | 34.6060 | 0.358 | 27.664 | 27.663 | 27.676 | 27.674 |
| 5 | 2058.9 | 2086.3 | 1.930 | 1.787 | 0.027081 | 34.605 | 34.6027 | 0.356 | 27.661 | 27.659 | 27.672 | 27.670 |
| 6 | 2103.3 | 2131.5 | 1.939 | 1.792 | 0.037970 | 34.607 | 34.6030 | 0.357 | 27.662 | 27.658 | 27.673 | 27.670 |
| 7 | 2080.0 | 2107.8 | 1.935 | 1.791 | 0.029040 | 34.605 | 34.6027 | 0.356 | 27.660 | 27.659 | 27.672 | 27.670 |
| 8 | 2055.2 | 2082.5 | 1.931 | 1.789 | 0.020200 | 34.603 | 34.6007 | 0.356 | 27.659 | 27.657 | 27.670 | 27.668 |
| 9 | 2003.4 | 2029.8 | 1.935 | 1.797 | 0.017811 | 34.601 | 34.5975 | 0.355 | 27.657 | 27.654 | 27.668 | 27.665 |
| 10 | 2085.1 | 2113.0 | 1.929 | 1.784 | 0.032749 | 34.607 | | 0.358 | 27.662 | | 27.674 | |
| 11 | 2232.0 | 2262.7 | 1.877 | 1.720 | 0.023411 | 34.615 | 34.6113 | 0.354 | 27.673 | 27.670 | 27.685 | 27.682 |
| 12 | 2300.0 | 2331.9 | 1.833 | 1.671 | 0.015859 | 34.621 | 34.6165 | 0.353 | 27.681 | 27.677 | 27.693 | 27.690 |

| TSM (ug/1) |
|---|



D-Theta(rows 1 to 12)=ptemp-((132.7015*pden)+(-2.484732*pden**2)+-1767.699)

VENTS 1994 - LEG I
Station T94C08 Cast 09 05 AUG 1994
LAT: 46 30.06N LONG: 129 33.20W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2368.2 | 2401.6 | 1.833 | 1.665 | 0.015018 | 34.622 | 34.6189 | 0.356 | 27.682 | 27.679 | 27.695 | 27.692 |
| 2 | 2343.3 | 2376.2 | 1.835 | 1.669 | 0.017602 | 34.622 | 34.6185 | 0.356 | 27.682 | 27.679 | 27.694 | 27.692 |
| 3 | 2295.9 | 2327.9 | 1.841 | 1.679 | 0.023829 | 34.622 | 34.6174 | 0.357 | 27.681 | 27.678 | 27.694 | 27.690 |
| 4 | 2303.1 | 2335.2 | 1.843 | 1.680 | 0.028770 | 34.623 | 34.6187 | 0.356 | 27.682 | 27.678 | 27.694 | 27.691 |
| 5 | 2311.4 | 2343.7 | 1.839 | 1.676 | 0.009438 | 34.619 | 34.6175 | 0.356 | 27.679 | 27.678 | 27.691 | 27.690 |
| 6 | 2327.4 | 2360.0 | 1.834 | 1.669 | 0.013748 | 34.621 | 34.6163 | 0.357 | 27.681 | 27.677 | 27.694 | 27.690 |

| TSM (ug/l) |
|---|



D-Theta(rows 1 to 6)=ptemp-((13.39828*pden)+(7.561948*pden**2)+(-0.190097*pden**3))+-2131.4085)

VENTS 1994 - LEG I
Station T94C09 Cast 10 05 AUG 1994
LAT: 46 17.51N LONG: 129 40.33W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2091.1 | 2119.1 | 1.935 | 1.790 | 0.023326 | 34.605 | 34.6016 | 0.375 | 27.660 | 27.658 | 27.672 | 27.669 |
| 2 | 2139.7 | 2168.6 | 1.942 | 1.792 | 0.028704 | 34.606 | 34.6026 | 0.370 | 27.661 | 27.658 | 27.672 | 27.669 |
| 3 | 2146.2 | 2175.3 | 1.927 | 1.777 | 0.018700 | 34.606 | 34.6016 | 0.375 | 27.662 | 27.658 | 27.673 | 27.670 |
| 4 | 2103.8 | 2132.1 | 1.933 | 1.787 | 0.024967 | 34.606 | 34.6014 | 0.367 | 27.661 | 27.658 | 27.673 | 27.669 |

| TSM (ug/l) |
|---|

D-Theta (rows 1 to 4) = (ptemp + (4.551138 * pden)) - 127.70356

VENTS 1994 - LEG I
Station T94C10 Cast 11 05 AUG 1994
LAT: 46 08.61N LONG: 129 46.15W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2031.3 | 2058.3 | 1.949 | 1.809 | 0.022093 | 34.601 | 34.5986 | 0.359 | 27.656 | 27.654 | 27.667 | 27.665 |
| 2 | 2078.7 | 2106.5 | 1.943 | 1.799 | 0.026875 | 34.604 | 34.6014 | 0.359 | 27.659 | 27.657 | 27.670 | 27.668 |

| TSM (ug/l) |
|---|

D-Theta (rows 1 to 2) = (ptemp + (4.660502 * pden)) - 130.72831

VENTS 1994 - LEG I
Station T94C11 Cast 12 06 AUG 1994
LAT: 47 41.98N LONG: 127 47.92W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2650.4 | 2689.5 | 1.770 | 1.577 | 0.032749 | 34.646 | 34.6425 | 0.372 | 27.706 | 27.703 | 27.720 | 27.718 |
| 2 | 2628.1 | 2666.6 | 1.769 | 1.578 | 0.033558 | 34.646 | 34.6429 | 0.367 | 27.706 | 27.704 | 27.720 | 27.718 |
| 3 | 2620.4 | 2658.9 | 1.769 | 1.579 | 0.030955 | 34.645 | 34.6417 | 0.365 | 27.705 | 27.703 | 27.720 | 27.717 |
| 4 | 2601.3 | 2639.4 | 1.773 | 1.584 | 0.031903 | 34.644 | 34.6424 | 0.364 | 27.704 | 27.703 | 27.718 | 27.717 |
| 5 | 2590.6 | 2628.4 | 1.769 | 1.581 | 0.026698 | 34.643 | 34.6410 | 0.359 | 27.704 | 27.702 | 27.718 | 27.716 |
| 6 | 2551.1 | 2588.1 | 1.767 | 1.583 | 0.015295 | 34.639 | 34.6372 | 0.356 | 27.701 | 27.699 | 27.714 | 27.713 |
| 7 | 2500.6 | 2536.5 | 1.770 | 1.591 | 0.014300 | 34.637 | 34.6329 | 0.356 | 27.699 | 27.695 | 27.712 | 27.709 |
| 8 | 2631.4 | 2670.1 | 1.773 | 1.581 | 0.036128 | 34.646 | 34.6418 | 0.371 | 27.706 | 27.702 | 27.720 | 27.717 |
| 9 | 2609.9 | 2648.2 | 1.776 | 1.586 | 0.036547 | 34.645 | 34.6415 | 0.377 | 27.705 | 27.702 | 27.719 | 27.716 |
| 10 | 2592.6 | 2630.5 | 1.776 | 1.588 | 0.037703 | 34.645 | 34.6430 | 0.373 | 27.705 | 27.703 | 27.719 | 27.717 |
| 11 | 2613.8 | 2652.1 | 1.768 | 1.578 | 0.033810 | 34.646 | 34.6445 | 0.369 | 27.706 | 27.705 | 27.720 | 27.719 |
| 12 | 2609.8 | 2648.0 | 1.767 | 1.578 | 0.033379 | 34.646 | 34.6423 | 0.370 | 27.706 | 27.703 | 27.720 | 27.717 |
| 13 | 2618.1 | 2656.5 | 1.769 | 1.579 | 0.034222 | 34.646 | 34.6415 | 0.370 | 27.706 | 27.702 | 27.720 | 27.717 |
| 14 | 2626.0 | 2664.6 | 1.768 | 1.577 | 0.032989 | 34.646 | 34.6423 | 0.368 | 27.706 | 27.703 | 27.720 | 27.717 |
| 15 | 2600.6 | 2638.7 | 1.772 | 1.583 | 0.034374 | 34.645 | 34.6414 | 0.365 | 27.705 | 27.702 | 27.719 | 27.716 |
| 16 | 2582.9 | 2620.6 | 1.773 | 1.586 | 0.033128 | 34.644 | 34.6407 | 0.363 | 27.704 | 27.702 | 27.718 | 27.716 |
| 17 | 2622.7 | 2661.2 | 1.771 | 1.580 | 0.035313 | 34.646 | 34.6424 | 0.369 | 27.706 | 27.703 | 27.720 | 27.717 |
| 18 | 2605.7 | 2643.9 | 1.773 | 1.584 | 0.034733 | 34.645 | 34.6411 | 0.364 | 27.705 | 27.702 | 27.719 | 27.716 |
| 19 | 2585.5 | 2623.2 | 1.774 | 1.587 | 0.033657 | 34.644 | 34.6418 | 0.361 | 27.704 | 27.702 | 27.718 | 27.716 |
| 20 | 2577.7 | 2615.2 | 1.772 | 1.586 | 0.029647 | 34.643 | 34.6390 | 0.358 | 27.703 | 27.700 | 27.717 | 27.714 |

D-Theta(rows 1 to 20)=ptemp-((-405.90627*pden)+(7.251596*pden**2)+5681.1529)

VENTS 1994 - LEG I
Station T94C11  Cast 12  06 AUG 1994
LAT: 47 41.98N  LONG: 127 47.92W

| TSM (ug/l) |
|---|
| 25.25 |
| 24.46 |
| 26.87 |



D-Theta(rows 1 to 20)=ptemp-((-405.90627*pden)+(7.251596*pden**2)+5681.1529)

VENTS 1994 - LEG I
Station V94C02 Cast 13 06 AUG 1994
LAT: 47 42.49N LONG: 127 47.20W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2638.6 | 2677.8 | 1.771 | 1.579 | 0.032615 | 34.645 | 34.6425 | 0.371 | 27.705 | 27.703 | 27.720 | 27.718 |
| 2 | 2635.0 | 2674.2 | 1.771 | 1.579 | 0.032852 | 34.645 | 34.6424 | 0.372 | 27.705 | 27.703 | 27.720 | 27.717 |
| 3 | 2620.0 | 2658.8 | 1.769 | 1.579 | 0.032464 | 34.645 | 34.6459 | 0.371 | 27.705 | 27.706 | 27.720 | 27.720 |
| 4 | 2610.6 | 2649.2 | 1.768 | 1.579 | 0.032394 | 34.645 | 34.6417 | 0.370 | 27.705 | 27.703 | 27.720 | 27.717 |
| 5 | 2598.2 | 2636.5 | 1.768 | 1.580 | 0.033226 | 34.645 | 34.6404 | 0.368 | 27.705 | 27.702 | 27.719 | 27.716 |
| 6 | 2581.0 | 2619.0 | 1.770 | 1.583 | 0.029530 | 34.643 | 34.6382 | 0.363 | 27.704 | 27.700 | 27.718 | 27.714 |
| 7 | 2561.2 | 2598.8 | 1.767 | 1.582 | 0.022476 | 34.641 | 34.6363 | 0.359 | 27.702 | 27.698 | 27.716 | 27.712 |
| 8 | 2530.6 | 2567.6 | 1.771 | 1.589 | 0.024120 | 34.640 | 34.6331 | 0.358 | 27.701 | 27.696 | 27.715 | 27.709 |
| 9 | 2478.4 | 2514.3 | 1.770 | 1.593 | 0.017310 | 34.637 | 34.6294 | 0.356 | 27.699 | 27.693 | 27.712 | 27.706 |
| 10 | 2401.0 | 2435.3 | 1.773 | 1.603 | 0.011511 | 34.633 | 34.6249 | 0.355 | 27.695 | 27.689 | 27.708 | 27.702 |
| 11 | 2301.2 | 2333.6 | 1.783 | 1.622 | 0.008325 | 34.628 | 34.6248 | 0.356 | 27.691 | 27.688 | 27.703 | 27.700 |

| TSM (ug/l) |
|---|
| 26.08 |
| 25.30 |



D-Theta(rows 1 to 11)=ptemp-((-376.6797*pden)+(6.724579*pden**2)+5275.9499)

VENTS 1994 - LEG I
Station V94C04 Cast 14 06 AUG 1994
LAT: 47 42.74N LONG: 127 47.18W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2651.4 | 2690.9 | 1.773 | 1.580 | 0.033766 | 34.645 | 34.6425 | 0.370 | 27.705 | 27.703 | 27.719 | 27.717 |
| 2 | 2633.9 | 2673.0 | 1.772 | 1.580 | 0.034245 | 34.645 | 34.6426 | 0.369 | 27.705 | 27.703 | 27.719 | 27.717 |
| 3 | 2620.2 | 2659.0 | 1.775 | 1.584 | 0.034122 | 34.644 | 34.6430 | 0.366 | 27.704 | 27.703 | 27.718 | 27.718 |
| 4 | 2607.9 | 2646.5 | 1.776 | 1.587 | 0.035636 | 34.644 | 34.6409 | 0.366 | 27.704 | 27.701 | 27.718 | 27.716 |
| 5 | 2599.9 | 2638.2 | 1.778 | 1.589 | 0.034424 | 34.643 | 34.6401 | 0.364 | 27.703 | 27.701 | 27.717 | 27.715 |
| 6 | 2578.9 | 2616.8 | 1.773 | 1.586 | 0.022855 | 34.640 | 34.6382 | 0.356 | 27.701 | 27.699 | 27.715 | 27.714 |
| 7 | 2558.8 | 2596.3 | 1.771 | 1.586 | 0.016428 | 34.638 | 34.6350 | 0.355 | 27.699 | 27.697 | 27.713 | 27.711 |
| 8 | 2529.2 | 2566.1 | 1.773 | 1.591 | 0.016553 | 34.637 | 34.6334 | 0.355 | 27.699 | 27.696 | 27.712 | 27.709 |
| 9 | 2479.0 | 2514.9 | 1.774 | 1.597 | 0.014072 | 34.635 | 34.6318 | 0.354 | 27.697 | 27.694 | 27.710 | 27.708 |
| 10 | 2396.6 | 2430.8 | 1.776 | 1.606 | 0.010997 | 34.632 | 34.6292 | 0.354 | 27.694 | 27.692 | 27.707 | 27.705 |
| 11 | 2296.8 | 2329.1 | 1.786 | 1.625 | 0.010957 | 34.628 | 34.6260 | 0.354 | 27.690 | 27.689 | 27.702 | 27.701 |

| TSM (ug/l) |
|---|
| 22.63 |
| 29.42 |
| 21.34 |
| 20.95 |
| 18.35 |
| 12.83 |
| 10.96 |
| 9.92 |
| 8.15 |
| 9.22 |

D-Theta(rows 1 to 11)=ptemp-((-361.10415*pden)+(6.443219*pden**2)+5060.3916)

VENTS 1994 - LEG I
Station V94C03 Cast 15 06 AUG 1994
LAT: 47 42.69N LONG: 127 46.9W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2651.2 | 2690.7 | 1.777 | 1.584 | 0.036830 | 34.645 | 34.6415 | 0.373 | 27.705 | 27.702 | 27.719 | 27.716 |
| 2 | 2634.8 | 2673.9 | 1.777 | 1.585 | 0.037926 | 34.645 | 34.6412 | 0.372 | 27.705 | 27.702 | 27.719 | 27.716 |
| 3 | 2618.6 | 2657.4 | 1.778 | 1.588 | 0.036497 | 34.644 | 34.6407 | 0.371 | 27.704 | 27.701 | 27.718 | 27.715 |
| 4 | 2608.5 | 2647.0 | 1.778 | 1.589 | 0.037171 | 34.644 | 34.6403 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 5 | 2598.4 | 2636.8 | 1.777 | 1.588 | 0.037139 | 34.644 | 34.6396 | 0.366 | 27.704 | 27.700 | 27.718 | 27.714 |
| 6 | 2579.0 | 2616.9 | 1.773 | 1.586 | 0.026035 | 34.641 | 34.6382 | 0.358 | 27.702 | 27.699 | 27.716 | 27.714 |
| 7 | 2558.6 | 2596.1 | 1.773 | 1.588 | 0.024146 | 34.640 | 34.6360 | 0.357 | 27.701 | 27.698 | 27.715 | 27.712 |
| 8 | 2530.2 | 2567.2 | 1.771 | 1.589 | 0.018144 | 34.638 | 34.6351 | 0.355 | 27.699 | 27.697 | 27.713 | 27.711 |
| 9 | 2480.0 | 2515.9 | 1.770 | 1.593 | 0.014200 | 34.636 | 34.6324 | 0.354 | 27.698 | 27.695 | 27.711 | 27.708 |
| 10 | 2399.2 | 2433.5 | 1.773 | 1.603 | 0.011574 | 34.633 | 34.6296 | 0.354 | 27.695 | 27.693 | 27.708 | 27.705 |
| 11 | 2299.0 | 2331.3 | 1.790 | 1.629 | 0.009482 | 34.627 | 34.6236 | 0.355 | 27.689 | 27.686 | 27.701 | 27.699 |

| TSM (ug/l) |
|---|
| 22.95 |
| 20.28 |



D-Theta(rows 1 to 11)=ptemp-((-309.64678*pden)+(5.513697*pden**2)+4348.2362)

VENTS 1994 - LEG I
Station V94C08 Cast 16 07 AUG 1994
LAT: 47 42.6N LONG: 127 47.0W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2639.9 | 2679.2 | 1.773 | 1.581 | 0.033829 | 34.645 | 34.6468 | 0.371 | 27.705 | 27.706 | 27.719 | 27.721 |
| 2 | 2629.5 | 2668.5 | 1.771 | 1.580 | 0.033130 | 34.645 | 34.6433 | 0.370 | 27.705 | 27.704 | 27.719 | 27.718 |
| 3 | 2620.9 | 2659.7 | 1.771 | 1.580 | 0.033711 | 34.645 | 34.6415 | 0.371 | 27.705 | 27.702 | 27.719 | 27.717 |
| 4 | 2608.7 | 2647.3 | 1.768 | 1.579 | 0.032419 | 34.645 | 34.6417 | 0.370 | 27.705 | 27.703 | 27.720 | 27.717 |
| 5 | 2600.8 | 2639.2 | 1.766 | 1.577 | 0.031546 | 34.645 | 34.6417 | 0.369 | 27.705 | 27.703 | 27.720 | 27.717 |
| 6 | 2580.1 | 2618.0 | 1.771 | 1.584 | 0.030277 | 34.643 | 34.6398 | 0.363 | 27.703 | 27.701 | 27.718 | 27.715 |
| 7 | 2559.5 | 2597.0 | 1.772 | 1.587 | 0.029243 | 34.642 | 34.6386 | 0.359 | 27.703 | 27.700 | 27.716 | 27.714 |
| 8 | 2529.4 | 2566.3 | 1.773 | 1.591 | 0.022551 | 34.639 | 34.6359 | 0.357 | 27.700 | 27.698 | 27.714 | 27.711 |
| 9 | 2480.1 | 2516.0 | 1.773 | 1.596 | 0.016296 | 34.636 | 34.6321 | 0.355 | 27.698 | 27.695 | 27.711 | 27.708 |
| 10 | 2398.9 | 2433.1 | 1.773 | 1.603 | 0.011939 | 34.633 | 34.6297 | 0.354 | 27.695 | 27.693 | 27.708 | 27.705 |
| 11 | 2299.2 | 2331.5 | 1.784 | 1.623 | 0.009540 | 34.628 | 34.6250 | 0.354 | 27.690 | 27.688 | 27.703 | 27.700 |

| TSM (ug/l) |
|---|
| 25.23 |
| 27.35 |
| 28.29 |
| 27.90 |
| 24.15 |
| 14.34 |
| 13.62 |
| 10.89 |
| 9.77 |
| 9.68 |

D-Theta(rows 1 to 11)=ptemp-((-420.96051*pden)+(7.52409*pden**2)+5889.0711)

VENTS 1994 - LEG I
Station T94C12 Cast 17 07 AUG 1994
LAT: 47 42.65N LONG: 127 46.59W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2599.4 | 2637.8 | 1.774 | 1.585 | 0.033723 | 34.644 | 34.6380 | 0.364 | 27.704 | 27.699 | 27.718 | 27.713 |
| 2 | 2586.3 | 2624.4 | 1.775 | 1.588 | 0.032181 | 34.643 | 34.6378 | 0.363 | 27.703 | 27.699 | 27.717 | 27.713 |
| 3 | 2559.9 | 2597.5 | 1.773 | 1.588 | 0.026273 | 34.641 | 34.6358 | 0.357 | 27.702 | 27.698 | 27.716 | 27.711 |
| 4 | 2589.5 | 2627.7 | 1.771 | 1.583 | 0.029172 | 34.643 | 34.6373 | 0.359 | 27.703 | 27.699 | 27.718 | 27.713 |
| 5 | 2605.9 | 2644.4 | 1.771 | 1.582 | 0.028081 | 34.643 | 34.6391 | 0.359 | 27.703 | 27.700 | 27.718 | 27.715 |
| 6 | 2646.5 | 2685.9 | 1.772 | 1.579 | 0.032265 | 34.645 | 34.6408 | 0.369 | 27.705 | 27.702 | 27.720 | 27.716 |
| 7 | 2585.3 | 2623.4 | 1.778 | 1.591 | 0.037460 | 34.644 | 34.6395 | 0.365 | 27.704 | 27.700 | 27.718 | 27.714 |
| 8 | 2556.2 | 2593.7 | 1.772 | 1.588 | 0.025822 | 34.641 | 34.6352 | 0.356 | 27.702 | 27.697 | 27.716 | 27.711 |
| 9 | 2594.9 | 2633.2 | 1.780 | 1.592 | 0.038218 | 34.644 | 34.6397 | 0.367 | 27.704 | 27.700 | 27.718 | 27.714 |

| TSM (ug/l) |
|---|



D-Theta(rows 1 to 9)=ptemp-((-390.12039*pden)+(6.967274*pden**2)+5462.0399)

VENTS 1994 - LEG I
Station T94C13 Cast 18 07 AUG 1994
LAT: 47 42.10N LONG: 127 47.47W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2583.3 | 2621.3 | 1.775 | 1.588 | 0.031667 | 34.643 | 33.1172 | 0.363 | 27.703 | 26.480 | 27.717 | 26.493 |
| 2 | 2587.3 | 2625.4 | 1.774 | 1.587 | 0.030678 | 34.643 | 34.6407 | 0.362 | 27.703 | 27.701 | 27.717 | 27.716 |
| 3 | 2585.0 | 2623.0 | 1.778 | 1.591 | 0.033698 | 34.643 | 34.6415 | 0.368 | 27.703 | 27.702 | 27.717 | 27.716 |

| TSM (ug/l) |
|---|

D-Theta(rows 1 to 3)=ptemp-((-605.8638*pden)+(10.863276*pden**2)+8448.7669)

VENTS 1994 - LEG I
Station T94C14 Cast 19 07 AUG 1994
LAT: 47 43.25N LONG: 127 47.44W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2569.4 | 2607.1 | 1.773 | 1.587 | 0.034529 | 34.644 | 34.6400 | 0.363 | 27.704 | 27.701 | 27.718 | 27.715 |
| 2 | 2587.7 | 2625.9 | 1.777 | 1.589 | 0.033040 | 34.643 | 34.6405 | 0.365 | 27.703 | 27.701 | 27.717 | 27.715 |
| 3 | 2589.8 | 2628.0 | 1.776 | 1.588 | 0.032200 | 34.643 | 34.6402 | 0.363 | 27.703 | 27.701 | 27.717 | 27.715 |
| 4 | 2599.9 | 2638.3 | 1.774 | 1.585 | 0.030118 | 34.643 | 34.6402 | 0.363 | 27.703 | 27.701 | 27.717 | 27.715 |
| 5 | 2595.7 | 2634.0 | 1.776 | 1.588 | 0.034875 | 34.644 | 34.6407 | 0.366 | 27.704 | 27.701 | 27.718 | 27.715 |
| 6 | 2593.0 | 2631.2 | 1.776 | 1.588 | 0.035059 | 34.644 | 34.6439 | 0.367 | 27.704 | 27.704 | 27.718 | 27.718 |

| TSM (ug/l) |
|---|
| 22.05 |
| 22.16 |

D-Theta(rows 1 to 6)=ptemp-((-479.75205*pden)+(8.58521*pden**2)+6703.4107)

VENTS 1994 - LEG I
Station V94C06 Cast 20 07 AUG 1994
LAT: 47 42.77N LONG: 127 47.41W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2648.5 | 2688.0 | 1.772 | 1.579 | 0.031728 | 34.645 | 34.6427 | 0.369 | 27.705 | 27.703 | 27.720 | 27.718 |
| 2 | 2627.9 | 2666.9 | 1.777 | 1.586 | 0.033567 | 34.644 | 34.6410 | 0.368 | 27.704 | 27.701 | 27.718 | 27.716 |
| 3 | 2621.6 | 2660.5 | 1.778 | 1.587 | 0.034691 | 34.644 | 34.6411 | 0.368 | 27.704 | 27.701 | 27.718 | 27.716 |
| 4 | 2612.8 | 2651.5 | 1.781 | 1.591 | 0.037389 | 34.644 | 34.6406 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 5 | 2599.8 | 2638.2 | 1.781 | 1.592 | 0.038263 | 34.644 | 34.6405 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 6 | 2579.5 | 2617.5 | 1.778 | 1.591 | 0.037515 | 34.644 | 34.6405 | 0.366 | 27.704 | 27.701 | 27.718 | 27.715 |
| 7 | 2558.2 | 2595.7 | 1.773 | 1.588 | 0.026142 | 34.641 | 34.6379 | 0.358 | 27.702 | 27.699 | 27.716 | 27.713 |
| 8 | 2521.8 | 2558.5 | 1.769 | 1.588 | 0.016379 | 34.638 | 34.6354 | 0.355 | 27.700 | 27.698 | 27.713 | 27.711 |
| 9 | 2487.0 | 2523.0 | 1.771 | 1.593 | 0.020048 | 34.638 | 34.6346 | 0.356 | 27.699 | 27.697 | 27.713 | 27.710 |
| 10 | 2398.9 | 2433.1 | 1.774 | 1.604 | 0.011946 | 34.633 | 34.6295 | 0.355 | 27.695 | 27.692 | 27.708 | 27.705 |
| 11 | 2302.0 | 2334.3 | 1.786 | 1.624 | 0.010117 | 34.628 | 34.6246 | 0.355 | 27.690 | 27.688 | 27.703 | 27.700 |

| TSM (ug/l) |
|---|
| 25.56 |
| 21.05 |
| 60.00 |
| 24.13 |
| 24.10 |
| 23.86 |
| 11.43 |
| 10.83 |
| 12.13 |
| 9.77 |

D-Theta(rows 1 to 11)=ptemp-((-420.85713*pden)+(7.522431*pden**2)+5887.481)

VENTS 1994 - LEG I
Station V94C05 Cast 21 07 AUG 1994
LAT: 47 42.9N LONG: 127 47.58W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2649.4 | 2688.8 | 1.773 | 1.580 | 0.031049 | 34.645 | 34.6417 | 0.371 | 27.705 | 27.702 | 27.719 | 27.717 |
| 2 | 2629.4 | 2668.4 | 1.771 | 1.580 | 0.030992 | 34.645 | 34.6422 | 0.368 | 27.705 | 27.703 | 27.719 | 27.717 |
| 3 | 2604.4 | 2642.9 | 1.776 | 1.587 | 0.033310 | 34.644 | 34.6407 | 0.368 | 27.704 | 27.701 | 27.718 | 27.715 |
| 4 | 2593.6 | 2631.9 | 1.779 | 1.591 | 0.036179 | 34.644 | 34.6406 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 5 | 2583.8 | 2621.8 | 1.779 | 1.592 | 0.036850 | 34.644 | 34.6404 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 6 | 2577.7 | 2615.6 | 1.779 | 1.592 | 0.037262 | 34.644 | 34.6415 | 0.369 | 27.704 | 27.702 | 27.718 | 27.716 |
| 7 | 2560.1 | 2597.7 | 1.775 | 1.590 | 0.032625 | 34.643 | 34.6395 | 0.361 | 27.703 | 27.700 | 27.717 | 27.714 |
| 8 | 2524.5 | 2561.3 | 1.769 | 1.588 | 0.021763 | 34.640 | 34.6371 | 0.357 | 27.701 | 27.699 | 27.715 | 27.713 |
| 9 | 2471.2 | 2506.9 | 1.769 | 1.592 | 0.016182 | 34.637 | 34.6357 | 0.357 | 27.699 | 27.698 | 27.712 | 27.711 |
| 10 | 2396.4 | 2430.6 | 1.770 | 1.600 | 0.009396 | 34.633 | 34.6303 | 0.354 | 27.696 | 27.693 | 27.708 | 27.706 |
| 11 | 2309.4 | 2341.9 | 1.785 | 1.623 | 0.009535 | 34.628 | 34.6260 | 0.355 | 27.690 | 27.689 | 27.703 | 27.701 |

| TSM (ug/l) |
|---|
| 24.73 |
| 36.04 |
| 24.46 |

D-Theta(rows 1 to 11)=ptemp-((-538.848*pden)+(9.653414*pden**2)+7520.7454)

VENTS 1994 - LEG I
Station T94C15 Cast 22 07 AUG 1994
LAT: 47 41.90N LONG: 127 48.67W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2583.9 | 2621.9 | 1.777 | 1.590 | 0.031836 | 34.643 | 34.6409 | 0.365 | 27.703 | 27.701 | 27.717 | 27.715 | 21.06 |
| 2 | 2645.7 | 2685.0 | 1.770 | 1.577 | 0.031496 | 34.646 | 34.6424 | 0.371 | 27.706 | 27.703 | 27.720 | 27.718 | 16.00 |
| 3 | 2570.1 | 2607.9 | 1.776 | 1.590 | 0.032053 | 34.643 | 34.6399 | 0.365 | 27.703 | 27.701 | 27.717 | 27.715 | 12.52 |
| 4 | 2549.1 | 2586.5 | 1.769 | 1.585 | 0.025504 | 34.642 | 34.6392 | 0.358 | 27.703 | 27.701 | 27.717 | 27.714 | 9.22 |
| 5 | 2496.1 | 2532.3 | 1.768 | 1.589 | 0.016271 | 34.638 | 34.6345 | 0.355 | 27.700 | 27.697 | 27.713 | 27.710 | |
| 6 | 2645.6 | 2684.9 | 1.776 | 1.583 | 0.032850 | 34.645 | 34.6425 | 0.372 | 27.705 | 27.703 | 27.719 | 27.717 | |
| 7 | 2615.0 | 2653.7 | 1.777 | 1.587 | 0.035656 | 34.645 | 34.6413 | 0.372 | 27.705 | 27.702 | 27.719 | 27.716 | |
| 8 | 2590.9 | 2629.1 | 1.776 | 1.588 | 0.033623 | 34.644 | 34.6406 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 | |
| 9 | 2536.7 | 2573.8 | 1.769 | 1.586 | 0.020333 | 34.640 | 34.6369 | 0.356 | 27.701 | 27.699 | 27.715 | 27.712 | |
| 10 | 2631.0 | 2670.1 | 1.772 | 1.581 | 0.030989 | 34.645 | 34.6421 | 0.370 | 27.705 | 27.703 | 27.719 | 27.717 | 23.18 |
| 11 | 2588.3 | 2626.5 | 1.777 | 1.589 | 0.034507 | 34.644 | 34.6404 | 0.367 | 27.704 | 27.701 | 27.718 | 27.715 | 47.01 |
| 12 | 2574.8 | 2612.6 | 1.778 | 1.592 | 0.036142 | 34.644 | 34.6402 | 0.368 | 27.704 | 27.701 | 27.718 | 27.715 | 20.00 |
| 13 | 2546.9 | 2584.1 | 1.770 | 1.586 | 0.023375 | 34.641 | 34.6368 | 0.357 | 27.702 | 27.699 | 27.716 | 27.712 | 10.24 |
| 14 | 2644.0 | 2683.3 | 1.773 | 1.580 | 0.030816 | 34.645 | 34.6419 | 0.369 | 27.705 | 27.702 | 27.719 | 27.717 | |
| 15 | 2591.0 | 2629.2 | 1.771 | 1.583 | 0.027084 | 34.643 | 34.6398 | 0.359 | 27.703 | 27.701 | 27.718 | 27.715 | |
| 16 | 2554.1 | 2591.5 | 1.772 | 1.588 | 0.021296 | 34.640 | 34.6373 | 0.357 | 27.701 | 27.699 | 27.715 | 27.713 | |
| 17 | 2518.2 | 2554.9 | 1.769 | 1.588 | 0.015509 | 34.638 | 34.6368 | 0.354 | 27.700 | 27.699 | 27.713 | 27.712 | |

D-Theta(rows 1 to 17)=ptemp-((-532.00776*pden)+(9.529982*pden**2)+7425.9795)

VENTS 1994 - LEG I
Station T94C16 Cast 23 08 AUG 1994
LAT: 47 49.37N LONG: 127 43.97W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2638.7 | 2677.9 | 1.778 | 1.586 | 0.034112 | 34.645 | 34.6419 | 0.367 | 27.705 | 27.702 | 27.719 | 27.717 |
| 2 | 2592.0 | 2630.3 | 1.775 | 1.587 | 0.026468 | 34.642 | 34.6401 | 0.362 | 27.702 | 27.701 | 27.717 | 27.715 |
| 3 | 2544.7 | 2582.0 | 1.771 | 1.588 | 0.023893 | 34.641 | 34.6405 | 0.360 | 27.702 | 27.701 | 27.716 | 27.715 |
| 4 | 2427.5 | 2462.4 | 1.766 | 1.593 | 0.013273 | 34.636 | 34.6323 | 0.354 | 27.698 | 27.695 | 27.711 | 27.708 |
| 5 | 2632.9 | 2672.0 | 1.782 | 1.590 | 0.034502 | 34.644 | 34.6412 | 0.368 | 27.703 | 27.701 | 27.718 | 27.716 |
| 6 | 2582.5 | 2620.6 | 1.777 | 1.590 | 0.031466 | 34.643 | 34.6398 | 0.363 | 27.703 | 27.700 | 27.717 | 27.715 |
| 7 | 2541.7 | 2578.9 | 1.773 | 1.590 | 0.019625 | 34.639 | 34.6371 | 0.356 | 27.700 | 27.699 | 27.714 | 27.712 |
| 8 | 2445.6 | 2480.8 | 1.772 | 1.598 | 0.013313 | 34.635 | 34.6330 | 0.355 | 27.697 | 27.695 | 27.710 | 27.708 |

| TSM (ug/l) |
|---|



D-Theta(rows 1 to 8)=ptemp-((-605.87306*pden)+(10.864106*pden**2)+8448.3876)

VENTS 1994 - LEG I
Station T94C17 Cast 24 08 AUG 1994
LAT: 47 49.32N LONG: 127 45.49W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2541 | 2578.2 | 1.773 | 1.590 | 0.036580 | 34.644 | 34.6411 | 0.369 | 27.704 | 27.702 | 27.718 | 27.716 |
| 2 | 2621 | 2659.8 | 1.779 | 1.588 | 0.029489 | 34.642 | 34.6400 | 0.364 | 27.702 | 27.700 | 27.716 | 27.715 |

| TSM (ug/l) |
|---|
| 23.76 |
| 17.84 |

D-Theta(rows 1 to 2)=ptemp-((-540.05434*pden)+(9.675326*pden**2)+7537.3469)

VENTS 1994 - LEG I
Station V94C10 Cast 25 08 AUG 1994
LAT: 47 43.38N LONG: 127 48.46W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2647.0 | 2686.4 | 1.772 | 1.579 | 0.029439 | 34.645 | | 0.373 | 27.705 | | 27.720 | |
| 2 | 2629.0 | 2668.0 | 1.770 | 1.579 | 0.029245 | 34.645 | | 0.371 | 27.705 | | 27.720 | |
| 3 | 2607.8 | 2646.4 | 1.772 | 1.583 | 0.029252 | 34.644 | | 0.368 | 27.704 | | 27.718 | |
| 4 | 2600.1 | 2638.5 | 1.775 | 1.586 | 0.031938 | 34.644 | | 0.369 | 27.704 | | 27.718 | |
| 5 | 2589.9 | 2628.1 | 1.776 | 1.588 | 0.033354 | 34.644 | | 0.371 | 27.704 | | 27.718 | |
| 6 | 2579.4 | 2617.4 | 1.775 | 1.588 | 0.030439 | 34.643 | | 0.368 | 27.703 | | 27.717 | |
| 7 | 2559.2 | 2596.8 | 1.772 | 1.587 | 0.026738 | 34.642 | | 0.362 | 27.703 | | 27.716 | |
| 8 | 2529.6 | 2566.5 | 1.768 | 1.586 | 0.019994 | 34.640 | | 0.359 | 27.701 | | 27.715 | |
| 9 | 2478.7 | 2514.6 | 1.768 | 1.591 | 0.014444 | 34.637 | | 0.357 | 27.699 | | 27.712 | |
| 10 | 2401.3 | 2435.7 | 1.770 | 1.595 | -5.237228 | 35.758 | | 0.356 | 28.598 | | 28.612 | |
| 11 | 2300.1 | 2332.4 | 1.782 | 1.621 | 0.008025 | 34.628 | | 0.357 | 27.691 | | 27.703 | |

| TSM (ug/l) |
|---|
| 25.99 |
| 22.41 |
| 19.49 |
| 21.75 |
| 23.12 |
| 21.31 |
| 15.41 |
| 10.72 |
| 9.76 |
| 8.65 |

D-Theta(rows 1 to 11)=ptemp-((-594.86273*pden)+(10.66522*pden**2)+8296.0047)

VENTS 1994 - LEG I
Station T94C18 Cast 26 09 AUG 1994
LAT: 47 41.53N LONG: 127 48.26W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2642.3 | 2681.6 | 1.769 | 1.577 | 0.029947 | 34.645 | 34.6414 | 0.371 | 27.705 | 27.702 | 27.720 | 27.717 |
| 2 | 2555.5 | 2593.0 | 1.764 | 1.580 | 0.017433 | 34.640 | 34.6383 | 0.356 | 27.702 | 27.700 | 27.715 | 27.714 |
| 3 | 2426.2 | 2461.0 | 1.771 | 1.599 | 0.012553 | 34.634 | 34.6315 | 0.354 | 27.696 | 27.694 | 27.709 | 27.707 |
| 4 | 2324.3 | 2357.0 | 1.781 | 1.618 | 0.010243 | 34.629 | 34.6268 | 0.354 | 27.692 | 27.690 | 27.704 | 27.702 |
| 5 | 2651.5 | 2691.0 | 1.773 | 1.580 | 0.032174 | 34.645 | 34.6424 | 0.373 | 27.705 | 27.703 | 27.719 | 27.717 |
| 6 | 2589.2 | 2627.4 | 1.776 | 1.588 | 0.035626 | 34.644 | 34.6403 | 0.369 | 27.704 | 27.701 | 27.718 | 27.715 |
| 7 | 2532.7 | 2569.6 | 1.766 | 1.584 | 0.017370 | 34.639 | 34.6361 | 0.356 | 27.701 | 27.698 | 27.714 | 27.712 |
| 8 | 2427.7 | 2462.6 | 1.770 | 1.597 | 0.011752 | 34.634 | 34.6308 | 0.355 | 27.696 | 27.694 | 27.709 | 27.707 |
| 9 | 2447.6 | 2482.9 | 1.770 | 1.596 | 0.013559 | 34.635 | 34.6325 | 0.355 | 27.697 | 27.695 | 27.710 | 27.708 |
| 10 | 2524.7 | 2561.6 | 1.770 | 1.588 | 0.020722 | 34.639 | 34.6367 | 0.358 | 27.700 | 27.699 | 27.714 | 27.712 |
| 11 | 2625.7 | 2664.6 | 1.771 | 1.580 | 0.032521 | 34.645 | 34.6429 | 0.369 | 27.705 | 27.703 | 27.719 | 27.718 |
| 12 | 2648.2 | 2687.6 | 1.774 | 1.581 | 0.033118 | 34.645 | 34.6414 | 0.370 | 27.705 | 27.702 | 27.719 | 27.716 |

| TSM (ug/l) |
|---|
| 23.06 |
| 21.07 |
| 6.28 |
| 7.19 |
| 8.15 |
| 9.14 |
| 22.94 |
| 23.73 |

D-Theta(rows 1 to 12)=ptemp-((-581.10067*pden)+(10.4157*pden**2)+8106.2488)

VENTS 1994 - LEG I
Station T94C19 Cast 27 09 AUG 1994
LAT: 47 49.95N LONG: 127 38.08W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.5 | 2519.5 | 1.773 | 1.595 | 0.015283 | 34.636 | 34.6338 | 0.354 | 27.698 | 27.696 | 27.711 | 27.709 |
| 2 | 2563.2 | 2600.8 | 1.774 | 1.589 | 0.022401 | 34.640 | 34.6374 | 0.358 | 27.701 | 27.699 | 27.715 | 27.713 |
| 3 | 2562.4 | 2600.1 | 1.773 | 1.588 | 0.027505 | 34.642 | 34.6390 | 0.359 | 27.703 | 27.700 | 27.716 | 27.714 |
| 4 | 2531.3 | 2568.3 | 1.769 | 1.587 | 0.020973 | 34.640 | 34.6375 | 0.354 | 27.701 | 27.699 | 27.715 | 27.713 |
| 5 | 2486.7 | 2522.8 | 1.767 | 1.589 | 0.013757 | 34.637 | 34.6348 | 0.353 | 27.699 | 27.697 | 27.712 | 27.711 |
| 6 | 2592.8 | 2631.1 | 1.772 | 1.584 | 0.027559 | 34.643 | 34.6400 | 0.358 | 27.703 | 27.701 | 27.718 | 27.715 |
| 7 | 2559.3 | 2596.8 | 1.773 | 1.588 | 0.027726 | 34.642 | 34.6403 | 0.362 | 27.703 | 27.701 | 27.716 | 27.715 |
| 8 | 2604.3 | 2642.9 | 1.781 | 1.592 | 0.033262 | 34.643 | 34.6403 | 0.367 | 27.703 | 27.701 | 27.717 | 27.715 |
| 9 | 2578.6 | 2616.5 | 1.780 | 1.593 | 0.034320 | 34.643 | 34.6405 | 0.368 | 27.703 | 27.701 | 27.717 | 27.715 |
| 10 | 2575.0 | 2612.9 | 1.778 | 1.592 | 0.033119 | 34.643 | 34.6402 | 0.363 | 27.703 | 27.701 | 27.717 | 27.715 |
| 12 | 2572.1 | 2609.9 | 1.776 | 1.590 | 0.029010 | 34.642 | 34.6408 | 0.362 | 27.702 | 27.701 | 27.716 | 27.715 |
| 13 | 2585.3 | 2623.5 | 1.778 | 1.591 | 0.032406 | 34.643 | 34.6409 | 0.363 | 27.703 | 27.701 | 27.717 | 27.715 |
| 14 | 2578.0 | 2616.0 | 1.777 | 1.590 | 0.032189 | 34.643 | | 0.363 | 27.703 | | 27.717 | |

| TSM (ug/l) |
|---|
| 9.22 |
| 13.41 |
| |
| 14.29 |
| 16.59 |
| |
| |
| 23.53 |
| 28.89 |
| 22.00 |
| 18.68 |
| 20.14 |

D-Theta(rows 1 to 13)=ptemp-((-690.42942*pden)+(12.390602*pden**2)+9619.3326)

VENTS 1994 - LEG I
Station V94C12 Cast 28 09 AUG 1994
LAT: 47 55.01N LONG: 127 00.0W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2495.4 | 2531.7 | 1.765 | 1.586 | 0.024302 | 34.644 | 34.6150 | 0.385 | 27.705 | 27.682 | 27.718 | 27.695 |
| 2 | 2495.1 | 2531.4 | 1.765 | 1.586 | 0.024323 | 34.644 | 34.6423 | 0.385 | 27.705 | 27.703 | 27.718 | 27.717 |
| 3 | 2480.0 | 2516.0 | 1.764 | 1.587 | 0.024631 | 34.644 | 34.6413 | 0.383 | 27.705 | 27.703 | 27.718 | 27.716 |
| 4 | 2459.3 | 2494.8 | 1.763 | 1.588 | 0.025333 | 34.644 | 34.6429 | 0.377 | 27.705 | 27.704 | 27.718 | 27.717 |
| 5 | 2439.3 | 2474.4 | 1.762 | 1.588 | 0.023384 | 34.643 | 34.6404 | 0.372 | 27.704 | 27.702 | 27.717 | 27.715 |
| 6 | 2420.1 | 2454.8 | 1.761 | 1.589 | 0.018702 | 34.641 | 34.6386 | 0.364 | 27.703 | 27.701 | 27.716 | 27.714 |
| 7 | 2399.5 | 2433.8 | 1.760 | 1.590 | 0.013996 | 34.639 | 34.6361 | 0.360 | 27.701 | 27.699 | 27.714 | 27.712 |
| 8 | 2369.8 | 2403.5 | 1.761 | 1.594 | 0.008460 | 34.636 | 34.6336 | 0.358 | 27.699 | 27.697 | 27.711 | 27.709 |
| 9 | 2329.2 | 2362.1 | 1.767 | 1.603 | 0.009823 | 34.634 | 34.6306 | 0.359 | 27.697 | 27.694 | 27.709 | 27.706 |
| 10 | 2299.1 | 2331.5 | 1.771 | 1.610 | 0.008836 | 34.632 | 34.6291 | 0.358 | 27.695 | 27.692 | 27.707 | 27.704 |
| 11 | 2199.2 | 2229.6 | 1.793 | 1.640 | 0.009125 | 34.625 | 34.6239 | 0.359 | 27.687 | 27.687 | 27.699 | 27.698 |
| 12 | 2098.0 | 2126.5 | 1.837 | 1.692 | 0.014380 | 34.616 | 34.6130 | 0.359 | 27.677 | 27.674 | 27.688 | 27.685 |
| 13 | 1894.7 | 1919.5 | 1.987 | 1.858 | 0.026922 | 34.594 | 34.5903 | 0.364 | 27.647 | 27.644 | 27.658 | 27.655 |
| 14 | 1777.2 | 1799.9 | 2.118 | 1.997 | 0.004643 | 34.575 | 34.5724 | 0.365 | 27.622 | 27.620 | 27.631 | 27.629 |
| 15 | 1776.8 | 1799.5 | 2.118 | 1.997 | 0.004659 | 34.575 | 34.5724 | 0.365 | 27.622 | 27.620 | 27.631 | 27.629 |



| TSM (ug/l) |
|---|
| 35.72 |
| 37.48 |
| 33.38 |
| 34.07 |
| 23.05 |
| 19.64 |
| 13.94 |
| 10.74 |
| 14.62 |
| 18.71 |

D-Theta(rows 1 to 15)=ptemp-((-1122.3686*pden)+(20.188182*pden**2)+15601.047)

VENTS 1994 - LEG III
Station V94E01 Cast 01 14 SEP 1994
LAT: 44 59.93N LONG: 129 30.00W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2711.8 | 2751.9 | 1.747 | 1.548 | | 34.640 | 34.6445 | 0.305 | 27.703 | 27.707 | 27.718 | 27.721 | |
| 6 | 2400.0 | 2433.6 | 1.772 | 1.602 | | 34.629 | 34.6336 | 0.300 | 27.692 | 27.696 | 27.705 | 27.709 | |
| 8 | 2094.0 | 2121.9 | 1.835 | 1.691 | | 34.611 | 34.6160 | 0.299 | 27.673 | 27.677 | 27.684 | 27.688 | |
| 10 | 1796.5 | 1819.1 | 2.030 | 1.908 | | 34.575 | 34.5819 | 0.299 | 27.629 | 27.634 | 27.638 | 27.644 | |
| 14 | 1507.5 | 1525.4 | 2.421 | 2.318 | | 34.521 | 34.5256 | 0.301 | 27.554 | 27.557 | 27.562 | 27.566 | |
| 16 | 997.1 | 1007.7 | 3.311 | 3.240 | | 34.383 | 34.3902 | 0.303 | 27.364 | 27.369 | 27.370 | 27.376 | |
| 18 | 498.2 | 502.9 | 4.762 | 4.723 | | 34.061 | 34.0654 | 0.302 | 26.958 | 26.961 | 26.962 | 26.966 | |

VENTS 1994 - LEG III
Station T94E01 Cast 02 15 SEP 1994
LAT: 45 00.54N LONG: 130 11.49W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2194.1 | 2223.8 | 1.893 | 1.739 | 0.023070 | 34.611 | 34.6155 | 0.303 | 27.668 | 27.672 | 27.680 | 27.684 | |
| 6 | 2098.8 | 2126.7 | 1.888 | 1.743 | 0.017839 | 34.609 | 34.6144 | 0.302 | 27.667 | 27.672 | 27.678 | 27.683 | |
| 8 | 2002.0 | 2028.2 | 1.902 | 1.765 | 0.002401 | 34.601 | 34.6048 | 0.291 | 27.660 | 27.663 | 27.670 | 27.673 | |
| 10 | 1808.1 | 1830.9 | 2.009 | 1.887 | -0.001030 | 34.579 | 34.5813 | 0.289 | 27.634 | 27.636 | 27.643 | 27.645 | |
| 14 | 1509.1 | 1527.0 | 2.364 | 2.262 | 0.008419 | 34.518 | 34.5217 | 0.292 | 27.556 | 27.559 | 27.564 | 27.567 | |
| 16 | 1018.6 | 1029.5 | 3.250 | 3.178 | 0.048032 | 34.382 | 34.3850 | 0.293 | 27.369 | 27.371 | 27.375 | 27.378 | |
| 18 | 496.7 | 501.4 | 4.494 | 4.456 | -0.550775 | 34.035 | 34.0284 | 0.293 | 26.967 | 26.961 | 26.971 | 26.965 | |



D-Theta (rows 1 to 7) = (ptemp + (4.637878 * pden)) - 130.09381

VENTS 1994 - LEG III
Station T94E02 Cast 03 15 SEP 1994
LAT: 44 58.86N LONG: 130 09.4W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2215.8 | 2245.9 | 1.884 | 1.729 | 0.014063 | 34.610 | 34.6128 | 0.296 | 27.668 | 27.671 | 27.680 | 27.683 |
| 6 | 2102.4 | 2130.4 | 1.887 | 1.741 | 0.018682 | 34.609 | 34.6042 | 0.298 | 27.667 | 27.663 | 27.678 | 27.675 |
| 8 | 2003.2 | 2029.4 | 1.901 | 1.764 | -0.000378 | 34.600 | 34.5795 | 0.289 | 27.659 | 27.643 | 27.670 | 27.653 |
| 10 | 1808.6 | 1831.4 | 2.013 | 1.890 | -0.004461 | 34.577 | 34.5227 | 0.288 | 27.632 | 27.588 | 27.641 | 27.598 |
| 14 | 1522.6 | 1540.8 | 2.318 | 2.215 | 0.006697 | 34.525 | 34.3872 | 0.289 | 27.565 | 27.455 | 27.574 | 27.464 |
| 16 | 1001.2 | 1011.9 | 3.275 | 3.204 | 0.092674 | 34.390 | 34.0505 | 0.294 | 27.373 | 27.102 | 27.379 | 27.109 |
| 18 | 494.3 | 498.9 | 4.505 | 4.468 | -0.506445 | 34.046 | 32.5946 | 0.291 | 26.974 | 25.822 | 26.978 | 25.826 |

| TSM (ug/l) |
|---|



D-Theta (rows 1 to 7) = (ptemp + (4.642791 * pden)) - 130.22811

VENTS 1994 - LEG III
Station T94E03 Cast 04 15 SEP 1994
LAT: 45 00.28N LONG: 130 15.31W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2304.7 | 2336.6 | 1.829 | 1.667 | 0.001965 | 34.618 | 34.6221 | 0.293 | 27.679 | 27.682 | 27.691 | 27.695 | |
| 6 | 2098.2 | 2126.1 | 1.859 | 1.714 | -0.007510 | 34.607 | 34.6117 | 0.287 | 27.668 | 27.672 | 27.679 | 27.683 | |
| 8 | 2010.8 | 2037.1 | 1.900 | 1.762 | -0.005895 | 34.599 | 34.6032 | 0.289 | 27.658 | 27.662 | 27.669 | 27.672 | |
| 10 | 1803.8 | 1826.5 | 2.020 | 1.898 | -0.003203 | 34.576 | 34.5802 | 0.288 | 27.630 | 27.634 | 27.640 | 27.643 | |
| 14 | 1518.4 | 1536.4 | 2.409 | 2.305 | 0.076574 | 34.528 | 34.5316 | 0.291 | 27.560 | 27.563 | 27.569 | 27.572 | |
| 16 | 1003.6 | 1014.3 | 3.257 | 3.186 | 0.062807 | 34.382 | 34.3831 | 0.291 | 27.368 | 27.369 | 27.375 | 27.376 | |
| 18 | 532.4 | 537.4 | 4.438 | 4.398 | -0.359919 | 34.089 | 34.0838 | 0.293 | 27.016 | 27.011 | 27.020 | 27.016 | |



D-Theta (rows 1 to 7) = (ptemp + (4.606376 * pden)) - 129.22129

VENTS 1994 - LEG III
Station V94E02 Cast 05 16 SEP 1994
LAT: 44 55.32N LONG: 130 07.82W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2334.0 | 2366.4 | 1.822 | 1.657 | | 34.620 | 34.6257 | 0.300 | 27.681 | 27.686 | 27.694 | 27.698 | |
| 6 | 2102.1 | 2130.0 | 1.860 | 1.715 | | 34.607 | 34.6103 | 0.292 | 27.668 | 27.670 | 27.679 | 27.682 | |
| 8 | 1997.1 | 2023.1 | 1.901 | 1.764 | | 34.597 | 34.6029 | 0.289 | 27.657 | 27.661 | 27.667 | 27.672 | |
| 10 | 1801.7 | 1824.3 | 2.021 | 1.899 | | 34.574 | 34.5794 | 0.289 | 27.629 | 27.633 | 27.638 | 27.643 | |
| 14 | 1497.3 | 1515.0 | 2.402 | 2.300 | | 34.527 | 34.5323 | 0.291 | 27.560 | 27.564 | 27.569 | 27.573 | |
| 16 | 1000.0 | 1010.6 | 3.302 | 3.231 | | 34.374 | 34.3800 | 0.294 | 27.357 | 27.362 | 27.364 | 27.369 | |
| 18 | 497.5 | 502.2 | 4.442 | 4.405 | | 34.042 | 34.0484 | 0.291 | 26.978 | 26.983 | 26.982 | 26.987 | |

VENTS 1994 - LEG III
Station V94E03 Cast 06 16 SEP 1994
LAT: 44 55.81N LONG: 130 09.71W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2319.9 | 2352.0 | 1.817 | 1.653 | | 34.619 | 34.6217 | 0.296 | 27.681 | 27.683 | 27.693 | 27.695 | |
| 6 | 2098.6 | 2126.5 | 1.847 | 1.702 | | 34.609 | 34.6130 | 0.289 | 27.670 | 27.674 | 27.681 | 27.685 | |
| 8 | 1987.7 | 2013.6 | 1.895 | 1.759 | | 34.600 | 34.6041 | 0.290 | 27.659 | 27.663 | 27.670 | 27.673 | |
| 10 | 1800.5 | 1823.2 | 2.010 | 1.888 | | 34.576 | 34.5804 | 0.289 | 27.631 | 27.635 | 27.641 | 27.644 | |
| 14 | 1498.5 | 1516.2 | 2.360 | 2.258 | | 34.532 | 34.5362 | 0.291 | 27.568 | 27.571 | 27.576 | 27.579 | |
| 16 | 997.2 | 1007.8 | 3.276 | 3.206 | | 34.377 | 34.3837 | 0.293 | 27.362 | 27.368 | 27.369 | 27.374 | |
| 18 | 499.4 | 504.1 | 4.565 | 4.527 | | 34.055 | 34.0592 | 0.292 | 26.975 | 26.978 | 26.979 | 26.982 | |

VENTS 1994 - LEG III
Station V94E04 Cast 07 16 SEP 1994
LAT: 44 56.19N LONG: 130 11.31W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2151.7 | 2180.6 | 1.857 | 1.708 | | 34.614 | 34.6121 | 0.294 | 27.674 | 27.672 | 27.685 | 27.684 | |
| 6 | 2099.9 | 2127.8 | 1.860 | 1.715 | | 34.607 | 34.6026 | 0.289 | 27.668 | 27.664 | 27.679 | 27.675 | |
| 8 | 1991.3 | 2017.3 | 1.910 | 1.774 | | 34.598 | 34.5814 | 0.289 | 27.657 | 27.643 | 27.667 | 27.654 | |
| 10 | 1800.7 | 1823.3 | 2.011 | 1.889 | | 34.576 | 34.5346 | 0.290 | 27.631 | 27.598 | 27.641 | 27.608 | |
| 14 | 1503.0 | 1520.9 | 2.372 | 2.270 | | 34.530 | 34.3894 | 0.291 | 27.565 | 27.452 | 27.573 | 27.461 | |
| 16 | 997.4 | 1008.0 | 3.197 | 3.127 | | 34.383 | 34.0611 | 0.293 | 27.374 | 27.118 | 27.381 | 27.124 | |
| 18 | 500.5 | 505.2 | 4.562 | 4.524 | | 34.055 | 32.6230 | 0.291 | 26.975 | 25.838 | 26.979 | 25.842 | |

VENTS 1994 - LEG III
Station V94E05 Cast 08 16 SEP 1994
LAT: 44 56.68N LONG: 130 13.23W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2218.7 | 2248.8 | 1.895 | 1.739 | | 34.611 | 34.6153 | 0.307 | 27.668 | 27.672 | 27.680 | 27.684 | |
| 6 | 2095.9 | 2123.8 | 1.896 | 1.751 | | 34.610 | 34.6147 | 0.317 | 27.667 | 27.671 | 27.679 | 27.682 | |
| 8 | 2000.0 | 2026.1 | 1.896 | 1.759 | | 34.601 | 34.6057 | 0.293 | 27.660 | 27.664 | 27.671 | 27.674 | |
| 10 | 1794.6 | 1817.1 | 2.033 | 1.911 | | 34.573 | 34.5777 | 0.290 | 27.627 | 27.631 | 27.637 | 27.640 | |
| 14 | 1486.5 | 1504.0 | 2.383 | 2.282 | | 34.515 | 34.5202 | 0.290 | 27.552 | 27.556 | 27.560 | 27.565 | |
| 16 | 1002.6 | 1013.3 | 3.215 | 3.145 | | 34.379 | 34.3848 | 0.293 | 27.370 | 27.374 | 27.376 | 27.381 | |
| 18 | 499.2 | 503.8 | 4.589 | 4.551 | | 34.065 | 34.0693 | 0.292 | 26.980 | 26.983 | 26.984 | 26.988 | |

VENTS 1994 - LEG III
Station V94E06 Cast 09 17 SEP 1994
LAT: 44 58.39N LONG: 130 12.70W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2208.0 | 2238.0 | 1.896 | 1.741 | | 34.609 | 34.6159 | 0.310 | 27.667 | 27.672 | 27.679 | 27.684 | |
| 6 | 2101.3 | 2129.3 | 1.892 | 1.746 | | 34.608 | 34.6145 | 0.315 | 27.666 | 27.671 | 27.677 | 27.683 | |
| 8 | 2000.0 | 2026.1 | 1.898 | 1.761 | | 34.599 | 34.6064 | 0.298 | 27.658 | 27.664 | 27.669 | 27.675 | |
| 10 | 1803.0 | 1825.7 | 2.017 | 1.895 | | 34.575 | 34.5817 | 0.294 | 27.630 | 27.635 | 27.639 | 27.645 | |
| 14 | 1498.5 | 1516.2 | 2.373 | 2.271 | | 34.527 | 34.5336 | 0.297 | 27.562 | 27.568 | 27.571 | 27.576 | |
| 16 | 1002.6 | 1013.3 | 3.254 | 3.183 | | 34.378 | 34.3855 | 0.298 | 27.365 | 27.371 | 27.372 | 27.378 | |
| 18 | 499.5 | 504.2 | 4.494 | 4.456 | | 34.050 | 32.5918 | 0.296 | 26.979 | 25.821 | 26.983 | 25.825 | |

VENTS 1994 - LEG III
Station V94E07 Cast 10 17 SEP 1994
LAT: 44 57.07N LONG: 130 14.87W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2154.6 | 2183.5 | 1.888 | 1.738 | | 34.610 | 34.6158 | 0.310 | 27.668 | 27.673 | 27.680 | 27.684 | |
| 6 | 2097.8 | 2125.7 | 1.889 | 1.744 | | 34.609 | 34.6149 | 0.314 | 27.667 | 27.672 | 27.678 | 27.683 | |
| 8 | 1997.5 | 2023.5 | 1.897 | 1.760 | | 34.601 | 34.6070 | 0.301 | 27.660 | 27.665 | 27.671 | 27.675 | |
| 10 | 1801.8 | 1824.5 | 2.019 | 1.897 | | 34.575 | 34.5806 | 0.294 | 27.630 | 27.634 | 27.639 | 27.644 | |
| 14 | 1499.9 | 1517.6 | 2.393 | 2.291 | | 34.512 | 34.5181 | 0.295 | 27.549 | 27.554 | 27.557 | 27.562 | |
| 16 | 1001.7 | 1012.4 | 3.259 | 3.188 | | 34.375 | 34.3818 | 0.298 | 27.362 | 27.368 | 27.369 | 27.374 | |
| 18 | 502.1 | 506.9 | 4.491 | 4.453 | | 34.056 | 34.0623 | 0.293 | 26.984 | 26.989 | 26.988 | 26.993 | |

VENTS 1994 - LEG III
Station V94E08 Cast 11 17 SEP 1994
LAT: 44 57.53N LONG: 130 16.76W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2232.3 | 2262.8 | 1.858 | 1.701 | | 34.612 | 34.6178 | 0.300 | 27.672 | 27.677 | 27.684 | 27.689 | |
| 6 | 2099.7 | 2127.6 | 1.882 | 1.737 | | 34.607 | 34.6135 | 0.305 | 27.666 | 27.671 | 27.677 | 27.682 | |
| 8 | 1998.4 | 2024.5 | 1.911 | 1.774 | | 34.596 | 34.6021 | 0.293 | 27.655 | 27.660 | 27.666 | 27.670 | |
| 10 | 1798.5 | 1821.1 | 2.048 | 1.926 | | 34.570 | 34.5754 | 0.293 | 27.623 | 27.628 | 27.633 | 27.637 | |
| 14 | 1500.0 | 1517.8 | 2.400 | 2.298 | | 34.511 | 34.5159 | 0.295 | 27.547 | 27.551 | 27.556 | 27.560 | |
| 16 | 998.2 | 1008.8 | 3.239 | 3.169 | | 34.375 | 34.3816 | 0.299 | 27.364 | 27.369 | 27.371 | 27.376 | |
| 18 | 499.1 | 503.8 | 4.474 | 4.436 | | 34.045 | 34.0515 | 0.295 | 26.977 | 26.982 | 26.981 | 26.986 | |

VENTS 1994 - LEG III
Station V94E09 Cast 12 17 SEP 1994
LAT: 44 57.97N LONG: 130 18.29W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2379.3 | 2412.5 | 1.826 | 1.657 | | 34.620 | 34.6242 | 0.298 | 27.681 | 27.684 | 27.694 | 27.697 | |
| 6 | 2098.1 | 2126.0 | 1.870 | 1.725 | | 34.606 | 34.6111 | 0.295 | 27.666 | 27.670 | 27.677 | 27.681 | |
| 8 | 1998.7 | 2024.8 | 1.910 | 1.773 | | 34.600 | 34.6052 | 0.293 | 27.658 | 27.662 | 27.669 | 27.673 | |
| 10 | 1800.1 | 1822.7 | 2.009 | 1.887 | | 34.577 | 34.5819 | 0.294 | 27.632 | 27.636 | 27.642 | 27.646 | |
| 14 | 1499.4 | 1517.1 | 2.336 | 2.235 | | 34.522 | 34.5259 | 0.294 | 27.562 | 27.565 | 27.570 | 27.573 | |
| 16 | 1001.7 | 1012.3 | 3.225 | 3.155 | | 34.388 | 34.3943 | 0.296 | 27.376 | 27.381 | 27.382 | 27.387 | |
| 18 | 500.0 | 504.7 | 4.453 | 4.415 | | 34.049 | 34.0554 | 0.295 | 26.982 | 26.987 | 26.986 | 26.991 | |

VENTS 1994 - LEG III
Station V94E10 Cast 13 17 SEP 1994
LAT: 45 00.08N LONG: 130 44.92W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2816.2 | 2858.5 | 1.696 | 1.489 | | 34.643 | 34.6464 | 0.297 | 27.709 | 27.712 | 27.725 | 27.727 | |
| 6 | 2699.8 | 2739.7 | 1.722 | 1.525 | | 34.638 | 34.6417 | 0.295 | 27.703 | 27.706 | 27.718 | 27.721 | |
| 8 | 2501.7 | 2537.4 | 1.787 | 1.607 | | 34.627 | 34.6311 | 0.295 | 27.689 | 27.693 | 27.703 | 27.706 | |
| 10 | 2000.9 | 2027.1 | 1.899 | 1.762 | | 34.601 | 34.6048 | 0.297 | 27.660 | 27.663 | 27.671 | 27.674 | |
| 14 | 1494.9 | 1512.6 | 2.406 | 2.304 | | 34.521 | 34.5251 | 0.295 | 27.555 | 27.558 | 27.563 | 27.567 | |
| 16 | 998.7 | 1009.3 | 3.280 | 3.209 | | 34.385 | 34.3895 | 0.298 | 27.368 | 27.372 | 27.375 | 27.378 | |
| 18 | 499.0 | 503.7 | 4.595 | 4.557 | | 34.028 | 34.0322 | 0.296 | 26.950 | 26.953 | 26.954 | 26.958 | |

VENTS 1994 - LEG III
Station V94E11 Cast 14 17 SEP 1994
LAT: 45 56.5N LONG: 129 58.7W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 1442.6 | 1459.7 | 2.399 | 2.301 | | 34.515 | 34.5204 | 0.302 | 27.551 | 27.555 | 27.559 | 27.563 | |
| 6 | 1199.3 | 1212.8 | 2.817 | 2.734 | | 34.449 | 34.4547 | 0.296 | 27.462 | 27.466 | 27.469 | 27.474 | |
| 8 | 1098.1 | 1110.2 | 3.029 | 2.953 | | 34.419 | 34.4248 | 0.296 | 27.419 | 27.423 | 27.426 | 27.430 | |
| 10 | 998.4 | 1009.1 | 3.208 | 3.138 | | 34.388 | 34.3940 | 0.297 | 27.377 | 27.382 | 27.384 | 27.389 | |
| 14 | 746.6 | 754.1 | 3.750 | 3.696 | | 34.241 | 34.2464 | 0.296 | 27.208 | 27.212 | 27.213 | 27.217 | |
| 16 | 498.7 | 503.4 | 4.444 | 4.406 | | 34.033 | 34.0362 | 0.297 | 26.970 | 26.973 | 26.974 | 26.977 | |

VENTS 1994 - LEG III
Station V94E12 Cast 15 18 SEP 1994
LAT: 46 26.74N LONG: 128 30.07W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2693.8 | 2733.8 | 1.760 | 1.563 | | 34.644 | 34.6437 | 0.301 | 27.705 | 27.705 | 27.720 | 27.720 | |
| 6 | 2400.2 | 2434.3 | 1.779 | 1.609 | | 34.628 | 34.6282 | 0.293 | 27.691 | 27.691 | 27.704 | 27.704 | |
| 8 | 2199.1 | 2229.2 | 1.823 | 1.670 | | 34.616 | 34.6161 | 0.293 | 27.678 | 27.678 | 27.689 | 27.690 | |
| 10 | 2001.7 | 2028.1 | 1.903 | 1.766 | | 34.598 | 34.5979 | 0.293 | 27.657 | 27.657 | 27.668 | 27.668 | |
| 14 | 1499.6 | 1517.6 | 2.514 | 2.410 | | 34.526 | 34.5249 | 0.298 | 27.550 | 27.549 | 27.559 | 27.558 | |
| 16 | 1000.2 | 1011.0 | 3.531 | 3.458 | | 34.401 | 34.4009 | 0.299 | 27.357 | 27.357 | 27.364 | 27.364 | |
| 18 | 499.1 | 503.8 | 4.633 | 4.595 | | 34.058 | 34.0539 | 0.295 | 26.970 | 26.966 | 26.974 | 26.971 | |

VENTS 1994 - LEG III
Station V94E13 Cast 16 19 SEP 1994
LAT: 46 23.51N LONG: 127 29.99W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Thet (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2675.4 | 2715.1 | 1.764 | 1.569 | | 34.643 | 34.6435 | 0.305 | 27.704 | 27.704 | 27.719 | 27.7 |
| 6 | 2400.6 | 2434.6 | 1.785 | 1.615 | | 34.626 | 34.6221 | 0.293 | 27.689 | 27.686 | 27.702 | 27.6 |
| 8 | 2197.4 | 2227.5 | 1.837 | 1.684 | | 34.612 | 34.6127 | 0.293 | 27.674 | 27.674 | 27.685 | 27.6 |
| 10 | 1999.0 | 2025.4 | 1.926 | 1.789 | | 34.593 | 34.5934 | 0.293 | 27.651 | 27.652 | 27.662 | 27.6 |
| 14 | 1498.1 | 1516.0 | 2.440 | 2.337 | | 34.511 | 34.5111 | 0.297 | 27.544 | 27.544 | 27.553 | 27.5 |
| 16 | 998.6 | 1009.4 | 3.466 | 3.394 | | 34.377 | 34.3763 | 0.300 | 27.344 | 27.344 | 27.351 | 27.3 |
| 18 | 498.8 | 503.6 | 5.012 | 4.972 | | 34.075 | 34.0763 | 0.297 | 26.941 | 26.942 | 26.945 | 26.9 |

VENTS 1994 - LEG III
Station V94E14 Cast 17 19 SEP 1994
LAT: 46 20.25N LONG: 126 29.68W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | TSM (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 2639.5 | 2678.4 | 1.734 | 1.542 | | 34.646 | 34.6454 | 0.310 | 27.709 | 27.708 | 27.723 | 27.723 | |
| 6 | 2401.4 | 2435.4 | 1.761 | 1.591 | | 34.632 | 34.6313 | 0.292 | 27.695 | 27.695 | 27.708 | 27.708 | |
| 8 | 2196.6 | 2226.6 | 1.805 | 1.652 | | 34.620 | 34.6208 | 0.295 | 27.682 | 27.683 | 27.694 | 27.695 | |
| 10 | 2002.5 | 2028.9 | 1.909 | 1.772 | | 34.600 | 34.6000 | 0.295 | 27.658 | 27.658 | 27.669 | 27.669 | |
| 14 | 1501.4 | 1519.4 | 2.434 | 2.331 | | 34.521 | 34.5206 | 0.296 | 27.553 | 27.552 | 27.561 | 27.561 | |
| 16 | 1003.4 | 1014.2 | 3.323 | 3.252 | | 34.379 | 34.3817 | 0.298 | 27.359 | 27.362 | 27.366 | 27.368 | |
| 18 | 503.1 | 507.9 | 4.559 | 4.521 | | 34.055 | 34.0520 | 0.295 | 26.975 | 26.973 | 26.980 | 26.977 | |

VENTS 1994 - LEG III
Station V94F01 Cast 01 20 SEP 1994
LAT: 45 00.22N LONG: 129 45.09W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2598.9 | 2636.6 | 1.774 | 1.586 | | 34.633 | 34.6330 | 0.303 | 27.695 | 27.695 | 27.709 | 27.709 |
| 2 | 2499.1 | 2534.8 | 1.770 | 1.591 | | 34.632 | 34.6322 | 0.302 | 27.695 | 27.695 | 27.708 | 27.708 |
| 3 | 2399.6 | 2433.3 | 1.777 | 1.607 | | 34.628 | | 0.300 | 27.691 | | 27.704 | |
| 4 | 2399.1 | 2432.8 | 1.777 | 1.607 | | 34.628 | 34.6273 | 0.299 | 27.691 | 27.690 | 27.704 | 27.703 |
| 5 | 2298.6 | 2330.3 | 1.786 | 1.625 | | 34.623 | 34.6231 | 0.296 | 27.686 | 27.686 | 27.698 | 27.699 |
| 6 | 2200.2 | 2230.0 | 1.805 | 1.652 | | 34.618 | 34.6173 | 0.295 | 27.681 | 27.680 | 27.692 | 27.692 |
| 7 | 2201.5 | 2231.3 | 1.805 | 1.652 | | 34.618 | | 0.296 | 27.681 | | 27.692 | |
| 8 | 2150.6 | 2179.5 | 1.822 | 1.673 | | 34.614 | | 0.296 | 27.676 | | 27.688 | |
| 9 | 2151.5 | 2180.4 | 1.823 | 1.674 | | 34.614 | | 0.296 | 27.676 | | 27.688 | |
| 10 | 2099.3 | 2127.3 | 1.837 | 1.692 | | 34.610 | 34.6099 | 0.295 | 27.672 | 27.672 | 27.683 | 27.683 |
| 11 | 2099.2 | 2127.1 | 1.838 | 1.693 | | 34.610 | 34.6103 | 0.295 | 27.672 | 27.672 | 27.683 | 27.683 |
| 12 | 2048.7 | 2075.8 | 1.856 | 1.715 | | 34.606 | 34.6064 | 0.296 | 27.667 | 27.668 | 27.678 | 27.678 |
| 13 | 2049.3 | 2076.3 | 1.857 | 1.716 | | 34.606 | 34.6054 | 0.295 | 27.667 | 27.667 | 27.678 | 27.677 |
| 14 | 1997.9 | 2024.0 | 1.880 | 1.743 | | 34.601 | 34.6037 | 0.295 | 27.661 | 27.664 | 27.672 | 27.674 |
| 15 | 1899.1 | 1923.5 | 1.942 | 1.813 | | 34.589 | 34.5889 | 0.295 | 27.647 | 27.647 | 27.657 | 27.657 |
| 16 | 1898.7 | 1923.1 | 1.943 | 1.814 | | 34.589 | 34.5883 | 0.295 | 27.647 | 27.646 | 27.657 | 27.656 |
| 17 | 1796.2 | 1818.8 | 2.019 | 1.897 | | 34.578 | 34.5779 | 0.296 | 27.632 | 27.632 | 27.642 | 27.642 |
| 18 | 1599.9 | 1619.3 | 2.240 | 2.132 | | 34.545 | 34.5461 | 0.298 | 27.588 | 27.589 | 27.597 | 27.598 |
| 19 | 1398.3 | 1414.5 | 2.555 | 2.459 | | 34.502 | | 0.299 | 27.527 | | 27.535 | |
| 20 | 1199.2 | 1212.6 | 2.817 | 2.734 | | 34.446 | 34.4453 | 0.299 | 27.459 | 27.459 | 27.467 | 27.466 |
| 21 | 994.9 | 1005.5 | 3.320 | 3.249 | | 34.370 | | 0.299 | 27.352 | | 27.359 | |

VENTS 1994 - LEG III
Station V94F01 Cast 01 20 SEP 1994
LAT: 45 00.22N LONG: 129 45.09W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.836 | | 189.3 | | |
| 2.839 | | 189.1 | | |
| 2.843 | | 187.6 | | |
| 2.843 | | 185.8 | | |
| 2.851 | | 184.2 | | |
| | | | | 60.32 |
| | | | | 16.23 |
| 2.866 | 182.700 | 182.7 | 2.866 | 10.92 |
| 2.893 | 182.000 | 182.5 | 2.881 | 12.00 |
| 2.890 | | 181.8 | | |
| 2.920 | 2.912 | 179.8 | 179.800 | 16.03 |
| 2.951 | | 178.3 | | |
| 3.014 | | 172.5 | | |
| 3.093 | | 163.9 | | |
| 3.118 | | 156.0 | | |
| 3.149 | | 140.0 | | |

VENTS 1994 - LEG III
Station V94F02 Cast 02 20 SEP 1994
LAT: 44 58.20N LONG: 130 12.76W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 2237.6 | 2268.1 | 1.897 | 1.739 | | 34.610 | 34.6117 | 0.307 | 27.667 | 27.669 | 27.679 | 27.681 |
| 3 | 2238.0 | 2268.5 | 1.897 | 1.739 | | 34.610 | 34.6123 | 0.307 | 27.667 | 27.669 | 27.679 | 27.681 |
| 4 | 2237.7 | 2268.2 | 1.897 | 1.739 | | 34.610 | 34.6122 | 0.308 | 27.667 | 27.669 | 27.679 | 27.681 |
| 5 | 2223.2 | 2253.4 | 1.900 | 1.744 | | 34.610 | 34.6119 | 0.308 | 27.667 | 27.669 | 27.679 | 27.681 |
| 6 | 2199.4 | 2229.2 | 1.896 | 1.742 | | 34.610 | 34.6115 | 0.311 | 27.667 | 27.669 | 27.679 | 27.680 |
| 7 | 2198.7 | 2228.5 | 1.897 | 1.743 | | 34.610 | 34.6116 | 0.311 | 27.667 | 27.669 | 27.679 | 27.680 |
| 9 | 2152.1 | 2181.0 | 1.894 | 1.744 | | 34.610 | 34.6117 | 0.312 | 27.668 | 27.669 | 27.679 | 27.680 |
| 10 | 2103.4 | 2131.4 | 1.900 | 1.754 | | 34.610 | 34.6117 | 0.312 | 27.667 | 27.668 | 27.678 | 27.680 |
| 11 | 2104.7 | 2132.8 | 1.898 | 1.752 | | 34.610 | 34.6126 | 0.311 | 27.667 | 27.669 | 27.678 | 27.681 |
| 12 | 2052.2 | 2079.3 | 1.892 | 1.751 | | 34.606 | 34.6084 | 0.305 | 27.665 | 27.666 | 27.675 | 27.677 |
| 13 | 2052.8 | 2079.9 | 1.893 | 1.752 | | 34.607 | 34.6080 | 0.305 | 27.665 | 27.666 | 27.676 | 27.677 |
| 14 | 2001.7 | 2027.9 | 1.892 | 1.755 | | 34.602 | 34.6044 | 0.300 | 27.661 | 27.663 | 27.672 | 27.674 |
| 15 | 1898.1 | 1922.4 | 1.944 | 1.815 | | 34.590 | 34.5922 | 0.294 | 27.648 | 27.649 | 27.658 | 27.659 |
| 16 | 1899.3 | 1923.7 | 1.944 | 1.815 | | 34.590 | 34.5909 | 0.294 | 27.648 | 27.648 | 27.658 | 27.658 |
| 17 | 1803.6 | 1826.3 | 2.021 | 1.899 | | 34.575 | 34.5767 | 0.294 | 27.630 | 27.631 | 27.639 | 27.641 |
| 18 | 1602.5 | 1621.9 | 2.213 | 2.105 | | 34.542 | 34.5419 | 0.295 | 27.588 | 27.588 | 27.596 | 27.596 |
| 19 | 1400.7 | 1417.0 | 2.546 | 2.450 | | 34.509 | 34.5102 | 0.296 | 27.533 | 27.534 | 27.542 | 27.543 |
| 20 | 1202.0 | 1215.3 | 2.892 | 2.809 | | 34.461 | 34.4634 | 0.297 | 27.465 | 27.467 | 27.472 | 27.474 |
| 21 | 1001.5 | 1012.1 | 3.251 | 3.180 | | 34.382 | 34.3812 | 0.298 | 27.369 | 27.368 | 27.375 | 27.375 |

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| | | | | 34.54 |
| 2.877 | 2.862 | 183.3 | 183.0 | |
| 2.879 | | 182.9 | | |
| 2.879 | 2.855 | 182.8 | 182.8 | 43.23 |
| 2.878 | 2.854 | 183.0 | 182.8 | 36.82 |
| 2.866 | 2.826 | 183.4 | 183.2 | 225.93 |
| 2.883 | 2.867 | 182.2 | 182.0 | 31.60 |
| 2.894 | | 181.2 | | |
| 2.923 | 2.921 | 179.0 | 178.9 | 14.35 |
| 2.954 | | 177.0 | | |
| 3.018 | | 172.0 | | |
| 3.091 | | 163.6 | | |
| 3.144 | | 153.3 | | |
| 3.161 | | 141.4 | | |

VENTS 1994 - LEG III
Station V94F03 Cast 03 21 SEP 1994
LAT: 44 56.13N LONG: 130 40.30W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2602.5 | 2640.3 | 1.754 | 1.566 | | 34.633 | 34.6346 | 0.294 | 27.697 | 27.698 | 27.711 | 27.712 |
| 2 | 2500.1 | 2535.8 | 1.796 | 1.616 | | 34.626 | 34.6274 | 0.294 | 27.688 | 27.689 | 27.701 | 27.703 |
| 3 | 2400.0 | 2433.7 | 1.815 | 1.644 | | 34.622 | 34.6222 | 0.295 | 27.683 | 27.683 | 27.696 | 27.696 |
| 4 | 2399.0 | 2432.7 | 1.816 | 1.645 | | 34.622 | 34.6227 | 0.295 | 27.683 | 27.684 | 27.696 | 27.697 |
| 5 | 2296.8 | 2328.5 | 1.831 | 1.669 | | 34.618 | 34.6189 | 0.295 | 27.679 | 27.680 | 27.691 | 27.692 |
| 6 | 2202.0 | 2231.9 | 1.845 | 1.691 | | 34.614 | 34.6148 | 0.296 | 27.675 | 27.675 | 27.686 | 27.687 |
| 7 | 2201.8 | 2231.6 | 1.846 | 1.692 | | 34.614 | 34.6151 | 0.297 | 27.674 | 27.675 | 27.686 | 27.687 |
| 8 | 2148.7 | 2177.5 | 1.860 | 1.711 | | 34.611 | 34.6117 | 0.297 | 27.671 | 27.672 | 27.682 | 27.683 |
| 9 | 2148.0 | 2176.8 | 1.861 | 1.712 | | 34.611 | 34.6145 | 0.298 | 27.671 | 27.674 | 27.682 | 27.685 |
| 10 | 2099.6 | 2127.5 | 1.884 | 1.739 | | 34.607 | 34.6085 | 0.302 | 27.666 | 27.667 | 27.677 | 27.678 |
| 11 | 2099.2 | 2127.1 | 1.885 | 1.740 | | 34.607 | 34.6088 | 0.302 | 27.666 | 27.667 | 27.677 | 27.678 |
| 12 | 2049.2 | 2076.2 | 1.895 | 1.754 | | 34.604 | 34.6038 | 0.300 | 27.663 | 27.663 | 27.674 | 27.673 |
| 13 | 2049.0 | 2076.0 | 1.896 | 1.755 | | 34.603 | 34.6047 | 0.300 | 27.662 | 27.663 | 27.673 | 27.674 |
| 14 | 1997.5 | 2023.6 | 1.908 | 1.771 | | 34.599 | 34.6001 | 0.296 | 27.658 | 27.659 | 27.668 | 27.669 |
| 15 | 1904.7 | 1929.1 | 1.982 | 1.852 | | 34.586 | 34.5856 | 0.294 | 27.641 | 27.641 | 27.652 | 27.651 |
| 16 | 1908.4 | 1932.9 | 1.979 | 1.849 | | 34.587 | 34.5850 | 0.294 | 27.642 | 27.641 | 27.653 | 27.651 |
| 17 | 1803.5 | 1826.2 | 2.031 | 1.909 | | 34.573 | 34.5725 | 0.294 | 27.627 | 27.627 | 27.637 | 27.636 |
| 18 | 1601.7 | 1621.0 | 2.253 | 2.144 | | 34.538 | 34.5374 | 0.295 | 27.581 | 27.581 | 27.590 | 27.590 |
| 19 | 1396.4 | 1412.6 | 2.554 | 2.458 | | 34.489 | 34.4871 | 0.296 | 27.517 | 27.515 | 27.525 | 27.523 |
| 20 | 1205.3 | 1218.7 | 2.855 | 2.772 | | 34.441 | 34.4408 | 0.297 | 27.452 | 27.452 | 27.459 | 27.459 |
| 21 | 1001.0 | 1011.6 | 3.236 | 3.166 | | 34.374 | 34.3741 | 0.298 | 27.364 | 27.364 | 27.370 | 27.370 |

VENTS 1994 - LEG III
Station V94F03 Cast 03 21 SEP 1994
LAT: 44 56.13N LONG: 130 40.30W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.810 | | 184.4 | | |
| 2.837 | | 184.3 | | |
| 2.853 | 2.853 | 184.3 | 184.4 | 12.42 |
| 2.863 | | 184.0 | | |
| 2.869 | 2.863 | 183.4 | 183.4 | 16.57 |
| 2.876 | 2.869 | 182.9 | 182.9 | 3.52 |
| 2.880 | 2.870 | 182.5 | 182.2 | 20.90 |
| 2.890 | | 181.6 | | 4.75 |
| 2.898 | | 180.9 | | |
| 2.932 | 2.934 | 179.0 | 178.5 | 8.09 |
| 2.957 | | 177.7 | | |
| 3.021 | | 171.9 | | |
| 3.092 | | 163.3 | | |
| 3.128 | | 154.1 | | |
| 3.152 | | 142.2 | | |

VENTS 1994 - LEG III
Station V94F04 Cast 04 21 SEP 1994
LAT: 44 53.03N LONG: 131 07.97W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2599.0 | 2636.7 | 1.737 | 1.549 | | 34.635 | 34.6363 | 0.295 | 27.700 | 27.701 | 27.714 | 27.715 |
| 2 | 2599.7 | 2637.3 | 1.739 | 1.551 | | 34.635 | 34.6361 | 0.293 | 27.700 | 27.700 | 27.714 | 27.714 |
| 3 | 2599.2 | 2636.9 | 1.740 | 1.552 | | 34.635 | 34.6358 | 0.295 | 27.699 | 27.700 | 27.713 | 27.714 |
| 4 | 2598.8 | 2636.5 | 1.741 | 1.553 | | 34.635 | 34.6360 | 0.294 | 27.699 | 27.700 | 27.713 | 27.714 |
| 5 | 2598.4 | 2636.1 | 1.741 | 1.553 | | 34.635 | 34.6357 | 0.294 | 27.699 | 27.700 | 27.713 | 27.714 |
| 6 | 2401.2 | 2434.8 | 1.807 | 1.636 | | 34.623 | 34.6243 | 0.293 | 27.685 | 27.686 | 27.698 | 27.699 |
| 7 | 2402.2 | 2435.9 | 1.808 | 1.637 | | 34.623 | 34.6242 | 0.293 | 27.685 | 27.686 | 27.698 | 27.699 |
| 8 | 2199.2 | 2229.0 | 1.860 | 1.706 | | 34.612 | 34.6135 | 0.294 | 27.672 | 27.673 | 27.684 | 27.685 |
| 9 | 2149.4 | 2178.2 | 1.874 | 1.725 | | 34.609 | 34.6113 | 0.293 | 27.668 | 27.670 | 27.680 | 27.682 |
| 10 | 2149.1 | 2178.0 | 1.875 | 1.726 | | 34.609 | 34.6099 | 0.293 | 27.668 | 27.669 | 27.680 | 27.680 |
| 11 | 2097.7 | 2125.6 | 1.891 | 1.746 | | 34.606 | 34.6075 | 0.294 | 27.665 | 27.666 | 27.676 | 27.677 |
| 12 | 2094.6 | 2122.4 | 1.892 | 1.747 | | 34.605 | 34.6061 | 0.294 | 27.664 | 27.665 | 27.675 | 27.676 |
| 13 | 2000.6 | 2026.8 | 1.929 | 1.792 | | 34.595 | 34.5967 | 0.294 | 27.653 | 27.654 | 27.663 | 27.665 |
| 14 | 2001.9 | 2028.0 | 1.928 | 1.790 | | 34.595 | 34.5950 | 0.294 | 27.653 | 27.653 | 27.664 | 27.664 |
| 15 | 1898.9 | 1923.3 | 2.005 | 1.875 | | 34.585 | 34.5865 | 0.295 | 27.639 | 27.640 | 27.649 | 27.650 |
| 16 | 1900.1 | 1924.4 | 2.004 | 1.874 | | 34.585 | 34.5857 | 0.294 | 27.639 | 27.639 | 27.649 | 27.650 |
| 17 | 1799.7 | 1822.3 | 2.069 | 1.946 | | 34.573 | 34.5740 | 0.294 | 27.624 | 27.625 | 27.634 | 27.635 |
| 18 | 1600.3 | 1619.6 | 2.280 | 2.171 | | 34.539 | 34.5406 | 0.296 | 27.580 | 27.581 | 27.589 | 27.590 |
| 19 | 1400.2 | 1416.4 | 2.559 | 2.463 | | 34.500 | 34.5001 | 0.296 | 27.525 | 27.525 | 27.533 | 27.533 |
| 20 | 1202.1 | 1215.5 | 2.886 | 2.803 | | 34.447 | 34.4491 | 0.297 | 27.454 | 27.456 | 27.461 | 27.463 |
| 21 | 1000.5 | 1011.2 | 3.281 | 3.210 | | 34.386 | 34.3878 | 0.298 | 27.369 | 27.370 | 27.376 | 27.377 |

VENTS 1994 - LEG III
Station V94F04 Cast 04 21 SEP 1994
LAT: 44 53.03N LONG: 131 07.97W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.844 | | 184.0 | | |
| 2.890 | 2.886 | 184.0 | 184.0 | 6.37 |
| 2.918 | | 182.7 | | |
| 2.927 | 2.927 | 182.4 | 182.5 | 10.06 |
| 2.934 | 2.931 | 181.8 | 181.8 | 8.58 |
| 2.960 | 2.962 | 180.3 | 180.5 | 11.92 |
| 2.987 | 2.982 | 178.3 | 178.4 | 8.20 |
| 3.016 | | 176.7 | | |
| 3.080 | | 171.4 | | |
| 3.138 | | 163.7 | | |
| 3.184 | | 153.7 | | |
| 3.209 | | 140.9 | | |

VENTS 1994 - LEG III
Station V94F05 Cast 05 21 SEP 1994
LAT: 44 50.02N LONG: 131 34.96W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3400.6 | 3456.4 | 1.545 | 1.282 | | 34.670 | 34.6701 | 0.300 | 27.742 | 27.742 | 27.761 | 27.761 |
| 2 | 3400.9 | 3456.7 | 1.544 | 1.281 | | 34.670 | 34.6724 | 0.299 | 27.742 | 27.744 | 27.761 | 27.763 |
| 3 | 3200.5 | 3251.5 | 1.554 | 1.312 | | 34.665 | 34.6657 | 0.293 | 27.737 | 27.738 | 27.755 | 27.755 |
| 4 | 3003.0 | 3049.4 | 1.609 | 1.385 | | 34.655 | 34.6557 | 0.293 | 27.725 | 27.726 | 27.742 | 27.742 |
| 5 | 2802.3 | 2844.3 | 1.652 | 1.447 | | 34.647 | 34.6453 | 0.293 | 27.716 | 27.714 | 27.731 | 27.729 |
| 6 | 2596.7 | 2634.3 | 1.717 | 1.530 | | 34.637 | 34.6380 | 0.293 | 27.703 | 27.704 | 27.717 | 27.718 |
| 7 | 2596.0 | 2633.6 | 1.718 | 1.531 | | 34.638 | 34.6385 | 0.294 | 27.704 | 27.704 | 27.717 | 27.718 |
| 8 | 2400.7 | 2434.3 | 1.793 | 1.623 | | 34.626 | 34.6272 | 0.294 | 27.688 | 27.689 | 27.701 | 27.702 |
| 9 | 2201.1 | 2230.9 | 1.845 | 1.691 | | 34.615 | 34.6156 | 0.294 | 27.675 | 27.676 | 27.687 | 27.688 |
| 10 | 2199.9 | 2229.7 | 1.844 | 1.691 | | 34.615 | 34.6148 | 0.294 | 27.675 | 27.675 | 27.687 | 27.687 |
| 11 | 2102.1 | 2130.1 | 1.868 | 1.723 | | 34.610 | 34.6099 | 0.295 | 27.670 | 27.670 | 27.681 | 27.681 |
| 12 | 2102.8 | 2130.8 | 1.868 | 1.723 | | 34.610 | 34.6116 | 0.295 | 27.670 | 27.671 | 27.681 | 27.682 |
| 13 | 2002.8 | 2028.9 | 1.909 | 1.772 | | 34.601 | 34.6025 | 0.295 | 27.659 | 27.660 | 27.670 | 27.671 |
| 14 | 2003.0 | 2029.2 | 1.910 | 1.773 | | 34.601 | 34.6000 | 0.294 | 27.659 | 27.658 | 27.670 | 27.669 |
| 15 | 1901.4 | 1925.8 | 1.970 | 1.840 | | 34.590 | 34.5907 | 0.294 | 27.646 | 27.646 | 27.656 | 27.656 |
| 16 | 1901.1 | 1925.5 | 1.972 | 1.842 | | 34.590 | 34.5896 | 0.294 | 27.645 | 27.645 | 27.656 | 27.655 |
| 17 | 1800.1 | 1822.8 | 2.046 | 1.924 | | 34.577 | 34.5772 | 0.294 | 27.629 | 27.629 | 27.639 | 27.639 |
| 18 | 1599.4 | 1618.7 | 2.289 | 2.180 | | 34.540 | 34.5411 | 0.296 | 27.580 | 27.581 | 27.589 | 27.590 |
| 19 | 1399.4 | 1415.7 | 2.600 | 2.504 | | 34.495 | 34.4965 | 0.297 | 27.518 | 27.519 | 27.526 | 27.527 |
| 20 | 1199.6 | 1213.0 | 2.944 | 2.860 | | 34.454 | 34.4554 | 0.297 | 27.454 | 27.455 | 27.462 | 27.463 |
| 21 | 1000.0 | 1010.6 | 3.388 | 3.316 | | 34.402 | 34.4070 | 0.300 | 27.372 | 27.375 | 27.378 | 27.382 |

VENTS 1994 - LEG III
Station V94F05 Cast 05 21 SEP 1994
LAT: 44 50.02N LONG: 131 34.96W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.660 | | 182.9 | | |
| 2.683 | | 181.1 | | |
| 2.726 | | 182.1 | | |
| 2.765 | | 182.8 | | |
| 2.813 | 2.820 | 183.9 | 183.8 | 9.82 |
| 2.869 | | 183.9 | | |
| 2.902 | 2.895 | 183.4 | 183.3 | 9.35 |
| 2.913 | 2.910 | 182.4 | 182.5 | 10.84 |
| 2.932 | 2.936 | 181.3 | 181.4 | 9.59 |
| 2.956 | 2.959 | 179.2 | 179.2 | 9.03 |
| 2.987 | | 177.1 | | |
| 3.061 | | 171.3 | | |
| 3.133 | | 162.6 | | |
| 3.173 | | 152.5 | | |
| 3.028 | | 139.1 | | |

VENTS 1994 - LEG III
Station V94F06 Cast 06 21 SEP 1994
LAT: 44 42.89N LONG: 132 43.17W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3601.7 | 3662.5 | 1.546 | 1.262 | | 34.673 | 34.6732 | 0.298 | 27.744 | 27.745 | 27.765 | 27.765 |
| 2 | 3399.8 | 3455.5 | 1.543 | 1.280 | | 34.669 | 34.6690 | 0.292 | 27.741 | 27.741 | 27.760 | 27.760 |
| 3 | 3199.5 | 3250.4 | 1.554 | 1.312 | | 34.664 | 34.6635 | 0.292 | 27.737 | 27.736 | 27.754 | 27.754 |
| 4 | 2999.3 | 3045.7 | 1.595 | 1.372 | | 34.656 | 34.6549 | 0.292 | 27.727 | 27.726 | 27.743 | 27.742 |
| 5 | 2798.1 | 2840.0 | 1.647 | 1.442 | | 34.647 | 34.6457 | 0.292 | 27.716 | 27.715 | 27.731 | 27.730 |
| 6 | 2597.4 | 2635.0 | 1.715 | 1.528 | | 34.637 | 34.6358 | 0.293 | 27.703 | 27.702 | 27.717 | 27.716 |
| 7 | 2399.1 | 2432.7 | 1.791 | 1.621 | | 34.625 | 34.6248 | 0.294 | 27.688 | 27.687 | 27.700 | 27.700 |
| 8 | 2399.9 | 2433.5 | 1.791 | 1.621 | | 34.625 | 34.6245 | 0.294 | 27.688 | 27.687 | 27.700 | 27.700 |
| 9 | 2199.8 | 2229.5 | 1.835 | 1.682 | | 34.616 | | 0.294 | 27.677 | | 27.689 | |
| 10 | 2198.7 | 2228.4 | 1.835 | 1.682 | | 34.616 | 34.6153 | 0.294 | 27.677 | 27.676 | 27.689 | 27.688 |
| 11 | 2100.1 | 2128.0 | 1.869 | 1.724 | | 34.609 | 34.6092 | 0.294 | 27.669 | 27.669 | 27.680 | 27.680 |
| 12 | 2099.8 | 2127.7 | 1.870 | 1.725 | | 34.609 | 34.6073 | 0.295 | 27.669 | 27.667 | 27.680 | 27.678 |
| 13 | 2000.7 | 2026.8 | 1.914 | 1.777 | | 34.600 | 34.5995 | 0.294 | 27.658 | 27.658 | 27.669 | 27.668 |
| 14 | 2000.0 | 2026.1 | 1.915 | 1.778 | | 34.600 | 34.5979 | 0.294 | 27.658 | 27.656 | 27.668 | 27.667 |
| 15 | 1900.0 | 1924.3 | 1.979 | 1.849 | | 34.588 | 34.5866 | 0.295 | 27.643 | 27.642 | 27.653 | 27.652 |
| 16 | 1900.4 | 1924.8 | 1.981 | 1.851 | | 34.587 | 34.5872 | 0.296 | 27.642 | 27.642 | 27.652 | 27.653 |
| 17 | 1799.6 | 1822.2 | 2.062 | 1.940 | | 34.573 | 34.5721 | 0.295 | 27.625 | 27.624 | 27.634 | 27.634 |
| 18 | 1600.7 | 1620.1 | 2.257 | 2.148 | | 34.540 | 34.5397 | 0.296 | 27.582 | 27.582 | 27.591 | 27.591 |
| 19 | 1398.3 | 1414.5 | 2.538 | 2.442 | | 34.498 | 34.5155 | 0.298 | 27.525 | 27.539 | 27.533 | 27.547 |
| 20 | 1199.5 | 1212.8 | 2.894 | 2.811 | | 34.451 | 34.4510 | 0.298 | 27.456 | 27.456 | 27.464 | 27.464 |
| 21 | 1000.6 | 1011.2 | 3.278 | 3.207 | | 34.384 | 34.3818 | 0.301 | 27.368 | 27.366 | 27.374 | 27.373 |

VENTS 1994 - LEG III
Station V94F06 Cast 06 21 SEP 1994
LAT: 44 42.89N LONG: 132 43.17W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.658 | | 183.5 | | |
| 2.668 | | 180.8 | | |
| 2.695 | | 180.0 | | |
| 2.741 | | 180.6 | | |
| 2.780 | | 182.2 | | |
| 2.836 | | 183.1 | | |
| 2.875 | 2.883 | 184.1 | 183.8 | 13.89 |
| 2.916 | | 183.1 | | |
| 2.926 | 2.924 | 182.3 | 182.5 | 11.19 |
| 2.942 | 2.946 | 181.0 | 180.9 | 15.85 |
| 2.985 | 2.969 | 178.8 | 179.1 | 15.19 |
| 3.013 | | 177.0 | | |
| 3.072 | | 171.8 | | |
| 3.139 | | 164.1 | | |
| 3.193 | | 153.9 | | |
| 3.217 | | 141.4 | | |

VENTS 1994 - LEG III
Station V94F07 Cast 07 21 SEP 1994
LAT: 44 37.05N LONG: 133 50.94W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3600.6 | 3661.3 | 1.541 | 1.257 | | 34.673 | | 0.291 | 27.745 | | 27.765 | |
| 2 | 3398.3 | 3453.9 | 1.548 | 1.285 | | 34.668 | 34.6860 | 0.292 | 27.740 | 27.755 | 27.759 | 27.774 |
| 3 | 3199.9 | 3250.8 | 1.564 | 1.321 | | 34.663 | 34.6495 | 0.292 | 27.735 | 27.724 | 27.753 | 27.742 |
| 4 | 3001.4 | 3047.7 | 1.602 | 1.378 | | 34.656 | 34.6553 | 0.292 | 27.727 | 27.726 | 27.743 | 27.742 |
| 5 | 2799.9 | 2841.8 | 1.641 | 1.436 | | 34.649 | 34.6485 | 0.292 | 27.718 | 27.718 | 27.733 | 27.733 |
| 6 | 2601.0 | 2638.7 | 1.687 | 1.500 | | 34.641 | 34.6399 | 0.293 | 27.708 | 27.707 | 27.722 | 27.721 |
| 7 | 2399.9 | 2433.4 | 1.762 | 1.592 | | 34.630 | 34.6302 | 0.293 | 27.694 | 27.694 | 27.707 | 27.707 |
| 8 | 2399.6 | 2433.2 | 1.762 | 1.592 | | 34.630 | 34.6301 | 0.293 | 27.694 | 27.694 | 27.707 | 27.707 |
| 9 | 2200.4 | 2230.1 | 1.844 | 1.691 | | 34.616 | 34.6164 | 0.294 | 27.676 | 27.677 | 27.688 | 27.688 |
| 10 | 2200.5 | 2230.2 | 1.845 | 1.692 | | 34.616 | 34.6158 | 0.294 | 27.676 | 27.676 | 27.688 | 27.688 |
| 11 | 2099.9 | 2127.7 | 1.884 | 1.739 | | 34.608 | 34.6089 | 0.295 | 27.667 | 27.667 | 27.678 | 27.679 |
| 12 | 2100.8 | 2128.7 | 1.884 | 1.739 | | 34.609 | 34.6083 | 0.295 | 27.668 | 27.667 | 27.679 | 27.678 |
| 13 | 1999.3 | 2025.4 | 1.930 | 1.793 | | 34.599 | | 0.294 | 27.656 | | 27.667 | |
| 14 | 1998.9 | 2024.9 | 1.931 | 1.794 | | 34.599 | 34.5986 | 0.295 | 27.656 | 27.656 | 27.666 | 27.666 |
| 15 | 1900.1 | 1924.4 | 1.988 | 1.858 | | 34.588 | 34.5883 | 0.295 | 27.643 | 27.643 | 27.653 | 27.653 |
| 16 | 1900.0 | 1924.3 | 1.989 | 1.859 | | 34.588 | 34.5873 | 0.295 | 27.642 | 27.642 | 27.653 | 27.652 |
| 17 | 1799.6 | 1822.2 | 2.076 | 1.953 | | 34.574 | 34.5735 | 0.295 | 27.624 | 27.624 | 27.634 | 27.634 |
| 18 | 1599.2 | 1618.5 | 2.307 | 2.198 | | 34.537 | 34.5331 | 0.296 | 27.576 | 27.573 | 27.585 | 27.582 |
| 19 | 1399.6 | 1415.8 | 2.619 | 2.522 | | 34.495 | 34.4944 | 0.297 | 27.516 | 27.515 | 27.524 | 27.524 |
| 20 | 1199.5 | 1212.8 | 2.960 | 2.876 | | 34.443 | 34.4330 | 0.299 | 27.444 | 27.436 | 27.452 | 27.444 |
| 21 | 1002.3 | 1013.0 | 3.361 | 3.289 | | 34.377 | | 0.299 | 27.354 | | 27.361 | |

VENTS 1994 - LEG III
Station V94F07 Cast 07 21 SEP 1994
LAT: 44 37.05N LONG: 133 50.94W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.624 | | 181.1 | | |
| 2.646 | | 179.8 | | |
| 2.676 | | 179.6 | | |
| 2.714 | | 179.8 | | |
| 2.749 | | 181.8 | | |
| 2.790 | | 181.4 | | |
| 2.841 | 2.838 | 182.5 | 182.4 | 17.08 |
| 2.893 | 2.889 | 182.5 | 182.5 | 16.43 |
| 2.911 | 2.908 | 181.6 | 181.7 | 16.74 |
| | | | | 19.78 |
| 2.950 | 2.960 | 178.8 | 179.0 | 20.88 |
| 2.984 | | 176.7 | | |
| 3.060 | | 168.2 | | |
| 3.124 | | 162.1 | | |
| 3.171 | | 151.4 | | |
| 3.194 | | 139.2 | | |

VENTS 1994 - LEG III
Station V94F08 Cast 08 22 SEP 1994
LAT: 44 29.99N LONG: 135 00.19W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3798.5 | 3864.3 | 1.546 | 1.240 | | 34.675 | | 0.294 | 27.746 | | 27.768 | |
| 2 | 3499.8 | 3558.0 | 1.547 | 1.274 | | 34.669 | 34.6775 | 0.292 | 27.741 | 27.748 | 27.761 | 27.768 |
| 3 | 3199.5 | 3250.4 | 1.560 | 1.318 | | 34.662 | 34.6669 | 0.292 | 27.735 | 27.738 | 27.752 | 27.756 |
| 4 | 2999.2 | 3045.4 | 1.592 | 1.369 | | 34.656 | 34.6622 | 0.293 | 27.727 | 27.732 | 27.744 | 27.749 |
| 5 | 2800.6 | 2842.5 | 1.630 | 1.425 | | 34.649 | 34.6562 | 0.293 | 27.719 | 27.725 | 27.734 | 27.740 |
| 6 | 2598.6 | 2636.2 | 1.713 | 1.526 | | 34.638 | 34.6465 | 0.293 | 27.704 | 27.711 | 27.718 | 27.725 |
| 7 | 2400.2 | 2433.7 | 1.784 | 1.614 | | 34.626 | 34.6372 | 0.294 | 27.689 | 27.698 | 27.702 | 27.711 |
| 8 | 2399.2 | 2432.7 | 1.784 | 1.614 | | 34.626 | 34.6379 | 0.294 | 27.689 | 27.698 | 27.702 | 27.711 |
| 9 | 2200.2 | 2230.0 | 1.851 | 1.697 | | 34.614 | 34.6274 | 0.296 | 27.674 | 27.685 | 27.686 | 27.697 |
| 10 | 2202.3 | 2232.1 | 1.851 | 1.697 | | 34.614 | 34.6297 | 0.295 | 27.674 | 27.687 | 27.686 | 27.698 |
| 11 | 2101.4 | 2129.3 | 1.890 | 1.744 | | 34.607 | | 0.295 | 27.665 | | 27.677 | |
| 12 | 2103.1 | 2131.1 | 1.890 | 1.744 | | 34.607 | 34.6169 | 0.295 | 27.665 | 27.673 | 27.677 | 27.685 |
| 13 | 1999.6 | 2025.6 | 1.938 | 1.800 | | 34.598 | 34.5962 | 0.296 | 27.655 | 27.653 | 27.665 | 27.664 |
| 14 | 1999.9 | 2025.9 | 1.938 | 1.800 | | 34.598 | 34.5983 | 0.296 | 27.655 | 27.655 | 27.665 | 27.665 |
| 15 | 1899.3 | 1923.6 | 2.007 | 1.877 | | 34.585 | 34.5864 | 0.296 | 27.639 | 27.640 | 27.649 | 27.650 |
| 16 | 1898.4 | 1922.6 | 2.009 | 1.879 | | 34.585 | 34.5874 | 0.296 | 27.639 | 27.640 | 27.649 | 27.651 |
| 17 | 1799.2 | 1821.7 | 2.084 | 1.961 | | 34.572 | 34.5744 | 0.296 | 27.622 | 27.624 | 27.632 | 27.634 |
| 18 | 1598.5 | 1617.7 | 2.290 | 2.181 | | 34.543 | 34.5464 | 0.297 | 27.582 | 27.585 | 27.591 | 27.594 |
| 19 | 1399.0 | 1415.2 | 2.597 | 2.501 | | 34.501 | 34.5051 | 0.298 | 27.523 | 27.526 | 27.531 | 27.534 |
| 20 | 1199.6 | 1212.9 | 2.952 | 2.868 | | 34.443 | 34.4990 | 0.300 | 27.445 | 27.490 | 27.452 | 27.497 |
| 21 | 1001.8 | 1012.4 | 3.425 | 3.353 | | 34.378 | 34.3822 | 0.301 | 27.349 | 27.352 | 27.356 | 27.359 |

VENTS 1994 - LEG III
Station V94F08 Cast 08 22 SEP 1994
LAT: 44 29.99N LONG: 135 00.19W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.608 | | 182.4 | | |
| 2.632 | | 180.1 | | |
| 2.665 | | 179.4 | | |
| 2.697 | | 179.8 | | |
| 2.731 | | 180.4 | | |
| 2.793 | | 181.2 | | |
| 2.840 | 2.840 | 183.0 | 182.8 | 7.01 |
| 2.880 | 2.880 | 182.7 | 182.7 | 7.84 |
| 2.904 | 2.905 | 181.8 | 181.7 | 8.66 |
| 2.933 | 2.926 | 180.6 | 180.6 | 9.54 |
| 2.956 | 2.957 | 178.9 | 178.9 | 8.76 |
| 2.988 | | 176.9 | | |
| 3.045 | | 171.2 | | |
| 3.118 | | 163.0 | | |
| 3.165 | | 152.5 | | |
| 3.187 | | 137.8 | | |

VENTS 1994 - LEG III
Station V94F09 Cast 09 22 SEP 1994
LAT: 44 07.00N LONG: 136 13.22W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3802.1 | 3867.9 | 1.538 | 1.232 | | 34.675 | 34.6763 | 0.294 | 27.747 | 27.748 | 27.768 | 27.769 |
| 2 | 3500.4 | 3558.4 | 1.536 | 1.263 | | 34.670 | 34.6683 | 0.293 | 27.743 | 27.741 | 27.762 | 27.761 |
| 3 | 3198.4 | 3249.1 | 1.554 | 1.312 | | 34.663 | 34.6621 | 0.293 | 27.736 | 27.735 | 27.753 | 27.753 |
| 4 | 3000.0 | 3046.1 | 1.578 | 1.355 | | 34.658 | 34.6575 | 0.294 | 27.730 | 27.730 | 27.746 | 27.746 |
| 5 | 2799.0 | 2840.7 | 1.626 | 1.422 | | 34.650 | 34.6508 | 0.294 | 27.720 | 27.721 | 27.735 | 27.736 |
| 6 | 2600.8 | 2638.4 | 1.696 | 1.509 | | 34.640 | 34.6420 | 0.294 | 27.707 | 27.708 | 27.721 | 27.722 |
| 7 | 2399.5 | 2433.0 | 1.776 | 1.606 | | 34.629 | 34.6330 | 0.295 | 27.692 | 27.695 | 27.705 | 27.708 |
| 8 | 2399.5 | 2433.0 | 1.775 | 1.605 | | 34.629 | 34.6323 | 0.295 | 27.692 | 27.695 | 27.705 | 27.707 |
| 9 | 2199.6 | 2229.2 | 1.848 | 1.695 | | 34.617 | 34.6235 | 0.296 | 27.677 | 27.682 | 27.688 | 27.694 |
| 10 | 2200.1 | 2229.7 | 1.849 | 1.695 | | 34.617 | 34.6232 | 0.295 | 27.677 | 27.682 | 27.688 | 27.693 |
| 11 | 2102.4 | 2130.2 | 1.892 | 1.746 | | 34.610 | 34.6159 | 0.296 | 27.668 | 27.672 | 27.679 | 27.684 |
| 12 | 2102.7 | 2130.5 | 1.892 | 1.746 | | 34.610 | 34.6158 | 0.296 | 27.668 | 27.672 | 27.679 | 27.684 |
| 13 | 2000.8 | 2026.7 | 1.936 | 1.798 | | 34.600 | 34.6060 | 0.296 | 27.656 | 27.661 | 27.667 | 27.672 |
| 14 | 2001.4 | 2027.4 | 1.937 | 1.799 | | 34.600 | 34.6046 | 0.296 | 27.656 | 27.660 | 27.667 | 27.671 |
| 15 | 1902.8 | 1927.0 | 2.000 | 1.870 | | 34.590 | 34.5943 | 0.298 | 27.643 | 27.647 | 27.653 | 27.657 |
| 16 | 1901.8 | 1926.0 | 2.003 | 1.873 | | 34.589 | 34.5932 | 0.297 | 27.642 | 27.646 | 27.652 | 27.656 |
| 17 | 1800.0 | 1822.5 | 2.092 | 1.969 | | 34.573 | 34.5755 | 0.297 | 27.622 | 27.624 | 27.632 | 27.634 |
| 18 | 1601.9 | 1621.2 | 2.344 | 2.234 | | 34.537 | 34.5411 | 0.298 | 27.573 | 27.576 | 27.582 | 27.585 |
| 19 | 1400.1 | 1416.2 | 2.624 | 2.527 | | 34.494 | 34.4952 | 0.300 | 27.515 | 27.516 | 27.523 | 27.524 |
| 20 | 1201.0 | 1214.3 | 2.867 | 2.784 | | 34.436 | 34.4364 | 0.301 | 27.447 | 27.447 | 27.454 | 27.455 |
| 21 | 1000.8 | 1011.4 | 3.210 | 3.140 | | 34.355 | 34.3550 | 0.301 | 27.351 | 27.351 | 27.357 | 27.357 |

VENTS 1994 - LEG III
Station V94F09 Cast 09 22 SEP 1994
LAT: 44 07.00N LONG: 136 13.22W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.596 | | 181.3 | | |
| 2.618 | | 179.5 | | |
| 2.655 | | 178.8 | | |
| 2.679 | | 178.6 | | |
| 2.726 | | 179.3 | | |
| 2.772 | | 180.2 | | |
| 2.829 | 2.892 | 180.5 | 180.6 | 8.31 |
| 2.870 | 2.870 | 180.8 | 180.9 | 9.89 |
| 2.891 | 2.892 | 180.2 | 180.1 | 10.60 |
| 2.913 | 2.914 | 179.9 | 180.1 | 9.25 |
| 2.945 | 2.945 | 178.4 | 178.4 | 10.57 |
| 2.976 | | 176.4 | | |
| 3.048 | | 169.8 | | |
| 3.111 | | 161.8 | | |
| 3.143 | | 154.1 | | |
| 3.150 | | 142.0 | | |

VENTS 1994 - LEG III
Station V94F10 Cast 10 22 SEP 1994
LAT: 43 44.06N LONG: 137 26.00W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4001.5 | 4072.5 | 1.532 | 1.204 | | 34.680 | 34.6809 | 0.295 | 27.751 | 27.752 | 27.774 | 27.775 |
| 2 | 3698.8 | 3761.7 | 1.522 | 1.228 | | 34.676 | 34.6760 | 0.292 | 27.749 | 27.749 | 27.770 | 27.770 |
| 3 | 3299.6 | 3352.7 | 1.534 | 1.282 | | 34.668 | 34.6679 | 0.293 | 27.741 | 27.741 | 27.759 | 27.759 |
| 4 | 2999.6 | 3045.6 | 1.578 | 1.355 | | 34.658 | 34.6589 | 0.294 | 27.730 | 27.731 | 27.746 | 27.747 |
| 5 | 2800.2 | 2841.8 | 1.624 | 1.420 | | 34.651 | 34.6511 | 0.294 | 27.721 | 27.721 | 27.736 | 27.736 |
| 6 | 2599.5 | 2636.9 | 1.698 | 1.511 | | 34.640 | 34.6408 | 0.294 | 27.707 | 27.707 | 27.720 | 27.721 |
| 7 | 2400.0 | 2433.4 | 1.770 | 1.600 | | 34.630 | 34.6307 | 0.295 | 27.693 | 27.694 | 27.706 | 27.706 |
| 8 | 2399.9 | 2433.3 | 1.772 | 1.602 | | 34.629 | 34.6299 | 0.295 | 27.692 | 27.693 | 27.705 | 27.706 |
| 9 | 2201.7 | 2231.3 | 1.847 | 1.693 | | 34.616 | 34.6170 | 0.296 | 27.676 | 27.677 | 27.688 | 27.689 |
| 10 | 2201.4 | 2230.9 | 1.848 | 1.694 | | 34.616 | 34.6175 | 0.297 | 27.676 | 27.677 | 27.688 | 27.689 |
| 11 | 2100.3 | 2128.0 | 1.896 | 1.750 | | 34.608 | 34.6086 | 0.296 | 27.666 | 27.666 | 27.677 | 27.677 |
| 12 | 2100.4 | 2128.1 | 1.897 | 1.751 | | 34.608 | 34.6080 | 0.297 | 27.666 | 27.666 | 27.677 | 27.677 |
| 13 | 1999.1 | 2025.0 | 1.941 | 1.803 | | 34.598 | 34.5983 | 0.298 | 27.654 | 27.655 | 27.665 | 27.665 |
| 14 | 1999.0 | 2024.8 | 1.941 | 1.803 | | 34.598 | 34.5982 | 0.297 | 27.654 | 27.654 | 27.665 | 27.665 |
| 15 | 1900.2 | 1924.3 | 2.005 | 1.875 | | 34.588 | 34.5884 | 0.298 | 27.641 | 27.642 | 27.651 | 27.652 |
| 16 | 1900.5 | 1924.7 | 2.005 | 1.875 | | 34.588 | 34.5874 | 0.298 | 27.641 | 27.641 | 27.651 | 27.651 |
| 17 | 1801.6 | 1824.1 | 2.095 | 1.972 | | 34.573 | 34.5732 | 0.298 | 27.622 | 27.622 | 27.632 | 27.632 |
| 18 | 1604.4 | 1623.6 | 2.331 | 2.221 | | 34.538 | 34.5380 | 0.300 | 27.575 | 27.575 | 27.584 | 27.584 |
| 19 | 1399.9 | 1416.0 | 2.659 | 2.562 | | 34.497 | 34.4977 | 0.300 | 27.514 | 27.515 | 27.522 | 27.523 |
| 20 | 1201.4 | 1214.6 | 2.997 | 2.913 | | 34.442 | 34.4424 | 0.301 | 27.440 | 27.440 | 27.448 | 27.448 |
| 21 | 999.8 | 1010.3 | 3.342 | 3.271 | | 34.362 | 34.3626 | 0.302 | 27.344 | 27.344 | 27.351 | 27.351 |

VENTS 1994 - LEG III
Station V94F10 Cast 10 22 SEP 1994
LAT: 43 44.06N LONG: 137 26.00W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.575 | | 179.9 | | |
| 2.591 | | 177.9 | | |
| 2.638 | | 176.9 | | |
| 2.688 | | 177.7 | | |
| 2.731 | | 178.2 | | |
| 2.784 | | 179.5 | | |
| 2.833 | 2.831 | 180.6 | 180.5 | 11.17 |
| 2.877 | 2.877 | 181.1 | 180.9 | 10.00 |
| 2.900 | 2.900 | 180.2 | 180.0 | 11.72 |
| 2.924 | 2.925 | 179.4 | 179.4 | 12.59 |
| 2.950 | 2.949 | 177.8 | 177.8 | 13.15 |
| 2.981 | | 175.7 | | |
| 3.049 | | 169.7 | | |
| 3.113 | | 160.4 | | |
| 3.156 | | 150.4 | | |
| 3.168 | | 138.6 | | |

VENTS 1994 - LEG III
Station V94F11 Cast 11 23 SEP 1994
LAT: 43 19.89N LONG: 138 39.98W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4000.3 | 4071.1 | 1.535 | 1.207 | | 34.679 | 34.6785 | 0.296 | 27.750 | 27.750 | 27.773 | 27.773 |
| 2 | 3700.0 | 3762.8 | 1.517 | 1.223 | | 34.676 | 34.6760 | 0.293 | 27.749 | 27.749 | 27.770 | 27.770 |
| 3 | 3294.3 | 3347.1 | 1.535 | 1.283 | | 34.667 | 34.6678 | 0.293 | 27.740 | 27.741 | 27.758 | 27.759 |
| 4 | 3000.9 | 3046.8 | 1.574 | 1.351 | | 34.659 | 34.6588 | 0.294 | 27.731 | 27.731 | 27.747 | 27.747 |
| 5 | 2802.3 | 2843.8 | 1.626 | 1.421 | | 34.651 | 34.6505 | 0.294 | 27.721 | 27.720 | 27.736 | 27.735 |
| 6 | 2600.8 | 2638.1 | 1.696 | 1.509 | | 34.641 | 34.6408 | 0.295 | 27.708 | 27.707 | 27.721 | 27.721 |
| 7 | 2399.7 | 2433.0 | 1.761 | 1.591 | | 34.631 | 34.6321 | 0.296 | 27.695 | 27.696 | 27.707 | 27.708 |
| 8 | 2401.0 | 2434.3 | 1.761 | 1.591 | | 34.631 | 34.6314 | 0.297 | 27.695 | 27.695 | 27.707 | 27.708 |
| 9 | 2198.9 | 2228.4 | 1.844 | 1.691 | | 34.617 | 34.6180 | 0.297 | 27.677 | 27.678 | 27.689 | 27.690 |
| 10 | 2199.9 | 2229.4 | 1.844 | 1.691 | | 34.617 | 34.6166 | 0.297 | 27.677 | 27.677 | 27.689 | 27.688 |
| 11 | 2098.5 | 2126.1 | 1.888 | 1.743 | | 34.609 | 34.6095 | 0.297 | 27.667 | 27.668 | 27.678 | 27.679 |
| 12 | 2098.5 | 2126.1 | 1.889 | 1.744 | | 34.608 | 34.6077 | 0.297 | 27.666 | 27.666 | 27.678 | 27.677 |
| 13 | 1999.2 | 2025.0 | 1.934 | 1.797 | | 34.599 | 34.5980 | 0.298 | 27.656 | 27.655 | 27.666 | 27.665 |
| 14 | 1999.3 | 2025.1 | 1.934 | 1.797 | | 34.599 | 34.5982 | 0.298 | 27.656 | 27.655 | 27.666 | 27.666 |
| 15 | 1899.1 | 1923.2 | 1.985 | 1.855 | | 34.588 | 34.5898 | 0.298 | 27.643 | 27.644 | 27.653 | 27.654 |
| 16 | 1899.1 | 1923.2 | 1.985 | 1.855 | | 34.588 | 34.5884 | 0.298 | 27.643 | 27.643 | 27.653 | 27.653 |
| 17 | 1799.0 | 1821.4 | 2.060 | 1.938 | | 34.574 | 34.5742 | 0.299 | 27.626 | 27.626 | 27.635 | 27.635 |
| 18 | 1599.5 | 1618.6 | 2.261 | 2.152 | | 34.541 | 34.5425 | 0.300 | 27.583 | 27.584 | 27.592 | 27.593 |
| 19 | 1399.0 | 1415.0 | 2.579 | 2.483 | | 34.489 | 34.4900 | 0.301 | 27.515 | 27.515 | 27.523 | 27.524 |
| 20 | 1198.0 | 1211.2 | 2.909 | 2.826 | | 34.434 | 34.4362 | 0.303 | 27.442 | 27.443 | 27.449 | 27.451 |
| 21 | 999.7 | 1010.1 | 3.284 | 3.213 | | 34.355 | 34.3565 | 0.304 | 27.344 | 27.345 | 27.351 | 27.352 |

VENTS 1994 - LEG III
Station V94F11 Cast 11 23 SEP 1994
LAT: 43 19.89N LONG: 138 39.98W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.577 | | 179.8 | | |
| 2.587 | | 177.6 | | |
| 2.634 | | 177.6 | | |
| 2.681 | | 178.0 | | |
| 2.728 | | 178.3 | | |
| 2.782 | | 179.8 | | |
| 2.824 | 2.823 | 181.0 | 181.1 | 7.10 |
| 2.877 | 2.876 | 181.1 | 181.1 | 8.00 |
| 2.899 | 2.897 | 180.7 | 180.4 | 8.16 |
| 2.921 | 2.917 | 179.7 | 179.6 | 9.95 |
| 2.943 | 2.944 | 178.5 | 178.8 | 11.59 |
| 2.975 | | 176.6 | | |
| 3.033 | | 171.6 | | |
| 3.108 | | 162.9 | | |
| 3.147 | | 152.9 | | |
| 3.157 | | 140.0 | | |

VENTS 1994 - LEG III
Station V94F12 Cast 12 23 SEP 1994
LAT: 42 35.16N LONG: 140 05.08W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4199.8 | 4275.8 | 1.546 | 1.195 | | 34.682 | 34.6809 | 0.297 | 27.752 | 27.751 | 27.777 | 27.776 |
| 2 | 3802.3 | 3867.5 | 1.515 | 1.210 | | 34.679 | 34.6781 | 0.294 | 27.752 | 27.751 | 27.773 | 27.772 |
| 3 | 3400.7 | 3455.8 | 1.520 | 1.258 | | 34.671 | 34.6702 | 0.293 | 27.745 | 27.744 | 27.763 | 27.763 |
| 4 | 2994.1 | 3039.7 | 1.574 | 1.352 | | 34.659 | 34.6583 | 0.294 | 27.731 | 27.731 | 27.747 | 27.747 |
| 5 | 2806.6 | 2848.1 | 1.609 | 1.404 | | 34.653 | 34.6524 | 0.295 | 27.724 | 27.723 | 27.739 | 27.738 |
| 6 | 2603.9 | 2641.1 | 1.676 | 1.489 | | 34.644 | 34.6426 | 0.296 | 27.711 | 27.710 | 27.725 | 27.724 |
| 7 | 2401.5 | 2434.7 | 1.752 | 1.582 | | 34.633 | 34.6330 | 0.296 | 27.697 | 27.697 | 27.710 | 27.710 |
| 8 | 2400.9 | 2434.0 | 1.752 | 1.582 | | 34.633 | 34.6322 | 0.297 | 27.697 | 27.696 | 27.710 | 27.709 |
| 9 | 2202.0 | 2231.4 | 1.831 | 1.678 | | 34.621 | 34.6204 | 0.297 | 27.681 | 27.681 | 27.693 | 27.692 |
| 10 | 2204.8 | 2234.2 | 1.829 | 1.675 | | 34.621 | 34.6196 | 0.297 | 27.681 | 27.680 | 27.693 | 27.692 |
| 11 | 2103.5 | 2131.0 | 1.873 | 1.728 | | 34.614 | 34.6131 | 0.298 | 27.672 | 27.672 | 27.684 | 27.683 |
| 12 | 2105.2 | 2132.7 | 1.872 | 1.726 | | 34.613 | 34.6121 | 0.298 | 27.672 | 27.671 | 27.683 | 27.682 |
| 13 | 2003.7 | 2029.5 | 1.925 | 1.787 | | 34.604 | 34.6034 | 0.298 | 27.660 | 27.660 | 27.671 | 27.670 |
| 14 | 2005.2 | 2030.9 | 1.924 | 1.786 | | 34.604 | 34.6022 | 0.298 | 27.660 | 27.659 | 27.671 | 27.670 |
| 15 | 1900.8 | 1924.7 | 1.993 | 1.863 | | 34.591 | 34.5907 | 0.298 | 27.645 | 27.644 | 27.655 | 27.654 |
| 16 | 1901.5 | 1925.4 | 1.993 | 1.863 | | 34.591 | 34.5896 | 0.298 | 27.645 | 27.643 | 27.655 | 27.654 |
| 17 | 1799.6 | 1821.8 | 2.073 | 1.950 | | 34.576 | 34.5749 | 0.299 | 27.626 | 27.625 | 27.636 | 27.635 |
| 18 | 1601.2 | 1620.2 | 2.316 | 2.207 | | 34.534 | 34.5327 | 0.300 | 27.573 | 27.572 | 27.582 | 27.581 |
| 19 | 1400.7 | 1416.7 | 2.624 | 2.527 | | 34.486 | 34.4853 | 0.301 | 27.508 | 27.508 | 27.517 | 27.516 |
| 20 | 1199.1 | 1212.2 | 3.010 | 2.926 | | 34.433 | 34.4326 | 0.303 | 27.432 | 27.431 | 27.439 | 27.439 |
| 21 | 1003.5 | 1014.0 | 3.311 | 3.240 | | 34.348 | 34.3485 | 0.304 | 27.336 | 27.336 | 27.343 | 27.343 |

VENTS 1994 - LEG III
Station V94F12 Cast 12 23 SEP 1994
LAT: 42 35.16N LONG: 140 05.08W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.574 | | 181.3 | | |
| 2.582 | | 179.3 | | |
| 2.621 | | 177.2 | | |
| 2.690 | | 177.2 | | |
| 2.720 | | 177.9 | | |
| 2.775 | | 179.1 | | |
| 2.826 | 2.827 | 180.1 | 180.1 | 5.94 |
| 2.874 | 2.874 | 180.1 | 180.5 | 7.69 |
| 2.895 | 2.896 | 180.1 | 180.1 | 8.02 |
| 2.920 | 2.920 | 179.3 | 179.4 | 7.07 |
| 2.952 | 2.951 | 177.9 | 177.9 | 8.01 |
| 2.984 | | 176.1 | | |
| 3.061 | | 170.0 | | |
| 3.126 | | 161.2 | | |
| 3.165 | | 149.7 | | |
| 3.165 | | 139.0 | | |

VENTS 1994 - LEG III
Station V94F13 Cast 13 23 SEP 1994
LAT: 41 29.99N LONG: 141 29.98W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4003.2 | 4073.3 | 1.520 | 1.192 | | 34.682 | 34.6793 | 0.294 | 27.754 | 27.751 | 27.777 | 27.775 |
| 2 | 3696.6 | 3758.7 | 1.499 | 1.206 | | 34.680 | 34.6771 | 0.294 | 27.753 | 27.751 | 27.774 | 27.772 |
| 3 | 3300.7 | 3353.1 | 1.507 | 1.256 | | 34.672 | 34.6696 | 0.295 | 27.746 | 27.745 | 27.764 | 27.762 |
| 4 | 2999.8 | 3045.3 | 1.548 | 1.326 | | 34.663 | 34.6598 | 0.295 | 27.736 | 27.734 | 27.752 | 27.750 |
| 5 | 2800.1 | 2841.2 | 1.598 | 1.394 | | 34.655 | 34.6601 | 0.295 | 27.726 | 27.730 | 27.741 | 27.745 |
| 6 | 2599.8 | 2636.7 | 1.657 | 1.471 | | 34.646 | 34.6453 | 0.296 | 27.715 | 27.714 | 27.728 | 27.728 |
| 7 | 2400.0 | 2432.9 | 1.752 | 1.582 | | 34.632 | 34.6323 | 0.297 | 27.696 | 27.696 | 27.709 | 27.709 |
| 8 | 2400.6 | 2433.5 | 1.751 | 1.581 | | 34.632 | 34.6312 | 0.298 | 27.696 | 27.696 | 27.709 | 27.708 |
| 9 | 2200.6 | 2229.7 | 1.842 | 1.689 | | 34.618 | 34.6190 | 0.298 | 27.678 | 27.679 | 27.690 | 27.690 |
| 10 | 2201.0 | 2230.1 | 1.841 | 1.688 | | 34.618 | 34.6192 | 0.299 | 27.678 | 27.679 | 27.690 | 27.691 |
| 11 | 2096.9 | 2124.1 | 1.897 | 1.752 | | 34.609 | 34.6067 | 0.299 | 27.667 | 27.665 | 27.678 | 27.676 |
| 12 | 2096.6 | 2123.8 | 1.897 | 1.752 | | 34.609 | 34.6074 | 0.298 | 27.667 | 27.665 | 27.678 | 27.676 |
| 13 | 2001.4 | 2026.9 | 1.950 | 1.812 | | 34.598 | 34.5972 | 0.299 | 27.654 | 27.653 | 27.664 | 27.664 |
| 14 | 2001.4 | 2026.9 | 1.950 | 1.812 | | 34.598 | 34.5980 | 0.299 | 27.654 | 27.654 | 27.664 | 27.664 |
| 15 | 1900.1 | 1923.9 | 2.024 | 1.894 | | 34.583 | 34.5828 | 0.299 | 27.636 | 27.636 | 27.646 | 27.646 |
| 16 | 1900.0 | 1923.8 | 2.025 | 1.895 | | 34.583 | 34.5832 | 0.299 | 27.636 | 27.636 | 27.646 | 27.646 |
| 17 | 1802.2 | 1824.3 | 2.091 | 1.968 | | 34.570 | 34.5694 | 0.300 | 27.620 | 27.619 | 27.630 | 27.629 |
| 18 | 1601.1 | 1619.9 | 2.314 | 2.205 | | 34.528 | 34.5299 | 0.302 | 27.568 | 27.570 | 27.577 | 27.579 |
| 19 | 1400.1 | 1415.9 | 2.612 | 2.516 | | 34.475 | 34.4741 | 0.302 | 27.501 | 27.500 | 27.509 | 27.508 |
| 20 | 1200.4 | 1213.4 | 2.957 | 2.873 | | 34.415 | 34.4166 | 0.303 | 27.422 | 27.423 | 27.430 | 27.431 |
| 21 | 1000.6 | 1010.9 | 3.258 | 3.188 | | 34.323 | 34.3239 | 0.304 | 27.321 | 27.322 | 27.327 | 27.328 |

VENTS 1994 - LEG III
Station V94F13 Cast 13 23 SEP 1994
LAT: 41 29.99N LONG: 141 29.98W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.570 | | 180.8 | | |
| 2.579 | | 178.7 | | |
| 2.614 | | 176.0 | | |
| 2.666 | | 175.3 | | |
| 2.713 | | 176.1 | | |
| 2.762 | | 177.5 | | |
| 2.831 | 2.828 | 179.5 | 179.7 | 9.39 |
| 2.880 | 2.881 | 180.3 | 180.2 | 8.95 |
| 2.912 | 2.910 | 179.7 | 179.7 | 9.68 |
| 2.936 | 2.941 | 179.0 | 179.0 | 9.94 |
| 2.975 | 2.973 | 177.6 | 177.6 | 10.12 |
| 3.003 | | 176.1 | | |
| 3.069 | | 170.7 | | |
| 3.128 | | 162.3 | | |
| 3.157 | | 151.0 | | |
| 3.141 | | 138.7 | | |

VENTS 1994 - LEG III
Station V94F14 Cast 14 24 SEP 1994
LAT: 40 30.01N LONG: 142 59.79W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4583.9 | 4670.1 | 1.558 | 1.161 | | 34.686 | 34.6868 | 0.295 | 27.754 | 27.755 | 27.782 | 27.783 |
| 2 | 4199.3 | 4274.5 | 1.525 | 1.175 | | 34.684 | 34.6826 | 0.293 | 27.755 | 27.754 | 27.780 | 27.778 |
| 3 | 3798.9 | 3863.3 | 1.503 | 1.199 | | 34.681 | 34.6785 | 0.294 | 27.754 | 27.752 | 27.776 | 27.774 |
| 4 | 3400.2 | 3454.6 | 1.507 | 1.245 | | 34.674 | 34.6728 | 0.294 | 27.748 | 27.747 | 27.767 | 27.766 |
| 5 | 2997.8 | 3042.9 | 1.558 | 1.336 | | 34.662 | 34.6609 | 0.295 | 27.735 | 27.734 | 27.751 | 27.750 |
| 6 | 2603.2 | 2639.9 | 1.672 | 1.485 | | 34.644 | 34.6427 | 0.296 | 27.712 | 27.711 | 27.726 | 27.725 |
| 7 | 2399.8 | 2432.4 | 1.756 | 1.586 | | 34.632 | 34.6328 | 0.298 | 27.696 | 27.696 | 27.709 | 27.709 |
| 8 | 2400.9 | 2433.6 | 1.756 | 1.586 | | 34.632 | 34.6311 | 0.298 | 27.696 | 27.695 | 27.709 | 27.708 |
| 9 | 2198.3 | 2227.1 | 1.857 | 1.704 | | 34.618 | 34.6183 | 0.298 | 27.677 | 27.677 | 27.689 | 27.689 |
| 10 | 2197.4 | 2226.3 | 1.858 | 1.705 | | 34.618 | 34.6171 | 0.298 | 27.677 | 27.676 | 27.688 | 27.688 |
| 11 | 2098.9 | 2126.0 | 1.905 | 1.759 | | 34.610 | 34.6096 | 0.299 | 27.667 | 27.666 | 27.678 | 27.678 |
| 12 | 2098.9 | 2125.9 | 1.906 | 1.760 | | 34.610 | 34.6110 | 0.299 | 27.667 | 27.667 | 27.678 | 27.679 |
| 13 | 2000.3 | 2025.6 | 1.958 | 1.820 | | 34.600 | 34.5995 | 0.299 | 27.655 | 27.654 | 27.665 | 27.665 |
| 14 | 1999.7 | 2025.0 | 1.960 | 1.822 | | 34.600 | 34.6016 | 0.299 | 27.654 | 27.656 | 27.665 | 27.666 |
| 15 | 1899.3 | 1922.8 | 2.029 | 1.899 | | 34.586 | 34.5881 | 0.301 | 27.638 | 27.639 | 27.648 | 27.650 |
| 16 | 1897.7 | 1921.2 | 2.030 | 1.900 | | 34.586 | 34.5856 | 0.300 | 27.638 | 27.637 | 27.648 | 27.648 |
| 17 | 1797.6 | 1819.5 | 2.119 | 1.996 | | 34.569 | 34.5693 | 0.300 | 27.617 | 27.617 | 27.627 | 27.627 |
| 18 | 1599.8 | 1618.5 | 2.341 | 2.231 | | 34.527 | 34.5287 | 0.301 | 27.565 | 27.566 | 27.574 | 27.576 |
| 19 | 1400.1 | 1415.8 | 2.617 | 2.521 | | 34.479 | 34.4814 | 0.302 | 27.503 | 27.505 | 27.512 | 27.514 |
| 20 | 1199.1 | 1212.0 | 2.923 | 2.840 | | 34.416 | 34.4166 | 0.304 | 27.426 | 27.426 | 27.433 | 27.434 |
| 21 | 1000.0 | 1010.3 | 3.223 | 3.153 | | 34.322 | 34.3241 | 0.304 | 27.323 | 27.325 | 27.330 | 27.332 |

VENTS 1994 - LEG III
Station V94F14 Cast 14 24 SEP 1994
LAT: 40 30.01N LONG: 142 59.79W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.540 | | 178.5 | | |
| 2.551 | | 179.3 | | |
| 2.569 | | 177.8 | | |
| 2.606 | | 175.5 | | |
| 2.669 | | 174.7 | | |
| 2.770 | | 177.3 | | |
| 2.832 | 2.828 | 179.3 | 179.3 | 5.65 |
| 2.881 | 2.879 | 178.8 | 178.7 | 6.37 |
| 2.908 | 2.904 | 178.6 | 178.6 | 6.57 |
| 2.934 | 2.932 | 178.0 | 178.0 | 7.66 |
| 2.973 | 2.965 | 176.6 | 176.7 | 7.13 |
| 3.004 | | 175.0 | | |
| 3.075 | | 169.8 | | |
| 3.130 | | 161.9 | | |
| 3.154 | | 152.0 | | |
| 3.134 | | 139.2 | | |

VENTS 1994 - LEG III
Station V94F15 Cast 15 24 SEP 1994
LAT: 39 29.98N LONG: 144 29.98W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4004.4 | 4073.9 | 1.502 | 1.175 | | 34.682 | 34.6832 | 0.295 | 27.755 | 27.756 | 27.778 | 27.779 |
| 2 | 3699.8 | 3761.3 | 1.497 | 1.204 | | 34.678 | 34.6785 | 0.295 | 27.752 | 27.752 | 27.773 | 27.773 |
| 3 | 3301.6 | 3353.3 | 1.523 | 1.271 | | 34.669 | 34.6695 | 0.294 | 27.743 | 27.743 | 27.761 | 27.761 |
| 4 | 2999.2 | 3044.0 | 1.572 | 1.349 | | 34.660 | 34.6599 | 0.295 | 27.732 | 27.732 | 27.748 | 27.748 |
| 5 | 2799.1 | 2839.6 | 1.615 | 1.411 | | 34.653 | 34.6531 | 0.296 | 27.723 | 27.723 | 27.738 | 27.738 |
| 6 | 2598.9 | 2635.3 | 1.682 | 1.495 | | 34.644 | 34.6441 | 0.296 | 27.711 | 27.711 | 27.725 | 27.725 |
| 7 | 2399.0 | 2431.4 | 1.761 | 1.591 | | 34.633 | 34.6341 | 0.297 | 27.696 | 27.697 | 27.709 | 27.710 |
| 8 | 2399.7 | 2432.2 | 1.761 | 1.591 | | 34.633 | 34.6346 | 0.297 | 27.696 | 27.698 | 27.709 | 27.710 |
| 9 | 2201.4 | 2230.1 | 1.851 | 1.697 | | 34.622 | 34.6231 | 0.298 | 27.681 | 27.681 | 27.692 | 27.693 |
| 10 | 2201.0 | 2229.7 | 1.851 | 1.697 | | 34.622 | 34.6222 | 0.298 | 27.681 | 27.681 | 27.692 | 27.692 |
| 11 | 2096.8 | 2123.6 | 1.907 | 1.762 | | 34.614 | 34.6157 | 0.298 | 27.670 | 27.671 | 27.681 | 27.682 |
| 12 | 2096.6 | 2123.4 | 1.907 | 1.762 | | 34.614 | 34.6144 | 0.298 | 27.670 | 27.670 | 27.681 | 27.681 |
| 13 | 2002.0 | 2027.1 | 1.978 | 1.840 | | 34.605 | 34.6059 | 0.299 | 27.657 | 27.658 | 27.668 | 27.668 |
| 14 | 2004.0 | 2029.1 | 1.977 | 1.839 | | 34.605 | 34.6053 | 0.299 | 27.657 | 27.657 | 27.668 | 27.668 |
| 15 | 1900.1 | 1923.5 | 2.073 | 1.942 | | 34.591 | 34.5925 | 0.299 | 27.638 | 27.639 | 27.649 | 27.650 |
| 16 | 1900.4 | 1923.8 | 2.072 | 1.941 | | 34.591 | 34.5910 | 0.300 | 27.638 | 27.638 | 27.649 | 27.649 |
| 17 | 1798.9 | 1820.6 | 2.147 | 2.023 | | 34.579 | 34.5799 | 0.300 | 27.623 | 27.623 | 27.633 | 27.633 |
| 18 | 1599.6 | 1618.2 | 2.374 | 2.264 | | 34.541 | 34.5413 | 0.301 | 27.574 | 27.574 | 27.583 | 27.583 |
| 19 | 1399.4 | 1414.9 | 2.706 | 2.609 | | 34.491 | 34.4907 | 0.302 | 27.505 | 27.505 | 27.514 | 27.513 |
| 20 | 1198.1 | 1210.8 | 2.956 | 2.872 | | 34.409 | 34.4103 | 0.303 | 27.417 | 27.418 | 27.425 | 27.426 |
| 21 | 1001.2 | 1011.4 | 3.327 | 3.256 | | 34.313 | 34.3130 | 0.303 | 27.306 | 27.306 | 27.313 | 27.313 |

VENTS 1994 - LEG III
Station V94F15 Cast 15 24 SEP 1994
LAT: 39 29.98N LONG: 144 29.98W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.560 | | 175.5 | | |
| 2.584 | | 174.6 | | |
| 2.632 | | 171.8 | | |
| 2.687 | | 172.6 | | |
| 2.727 | | 174.0 | | |
| 2.783 | | 176.2 | | |
| 2.835 | 2.837 | 177.6 | 177.5 | 5.80 |
| 2.880 | 2.880 | 177.5 | 177.5 | 5.76 |
| 2.909 | 2.903 | 176.8 | 176.8 | 6.36 |
| 2.938 | 2.938 | 175.9 | 175.9 | 5.96 |
| 2.973 | 2.974 | 174.0 | 174.0 | 6.31 |
| 3.005 | | 172.4 | | |
| 3.083 | | 167.3 | | |
| 3.149 | | 158.0 | | |
| 3.164 | | 136.4 | | |

VENTS 1994 - LEG III
Station V94F16 Cast 16 24 SEP 1994
LAT: 38 30.01N LONG: 145 59.97W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4595.5 | 4681.2 | 1.539 | 1.142 | | 34.685 | 34.6838 | 0.294 | 27.755 | 27.754 | 27.783 | 27.782 |
| 2 | 4501.0 | 4583.9 | 1.532 | 1.146 | | 34.685 | 34.6836 | 0.294 | 27.755 | 27.754 | 27.782 | 27.781 |
| 3 | 3999.9 | 4068.9 | 1.506 | 1.179 | | 34.681 | 34.6791 | 0.294 | 27.754 | 27.752 | 27.777 | 27.775 |
| 4 | 3502.0 | 3558.3 | 1.513 | 1.241 | | 34.673 | 34.6708 | 0.295 | 27.747 | 27.745 | 27.766 | 27.764 |
| 5 | 3000.6 | 3045.3 | 1.567 | 1.344 | | 34.661 | 34.6587 | 0.296 | 27.733 | 27.731 | 27.749 | 27.747 |
| 6 | 2602.0 | 2638.2 | 1.673 | 1.486 | | 34.645 | 34.6431 | 0.296 | 27.713 | 27.711 | 27.726 | 27.725 |
| 7 | 2401.8 | 2434.1 | 1.760 | 1.590 | | 34.634 | 34.6319 | 0.297 | 27.697 | 27.695 | 27.710 | 27.708 |
| 8 | 2401.7 | 2433.9 | 1.760 | 1.590 | | 34.634 | 34.6313 | 0.298 | 27.697 | 27.695 | 27.710 | 27.708 |
| 9 | 2201.7 | 2230.2 | 1.874 | 1.720 | | 34.620 | 34.6175 | 0.298 | 27.677 | 27.675 | 27.689 | 27.687 |
| 10 | 2201.7 | 2230.2 | 1.875 | 1.721 | | 34.620 | 34.6170 | 0.298 | 27.677 | 27.675 | 27.689 | 27.686 |
| 11 | 2101.0 | 2127.7 | 1.945 | 1.799 | | 34.610 | 34.6081 | 0.299 | 27.664 | 27.662 | 27.675 | 27.673 |
| 12 | 2101.3 | 2128.0 | 1.945 | 1.799 | | 34.610 | 34.6065 | 0.299 | 27.664 | 27.661 | 27.675 | 27.672 |
| 13 | 2001.9 | 2026.9 | 2.017 | 1.878 | | 34.602 | 34.5992 | 0.299 | 27.651 | 27.649 | 27.662 | 27.660 |
| 14 | 2001.7 | 2026.7 | 2.017 | 1.878 | | 34.602 | 34.5984 | 0.299 | 27.651 | 27.649 | 27.662 | 27.660 |
| 15 | 1901.5 | 1924.7 | 2.088 | 1.957 | | 34.592 | 34.5882 | 0.299 | 27.638 | 27.635 | 27.648 | 27.645 |
| 16 | 1901.9 | 1925.2 | 2.088 | 1.957 | | 34.592 | 34.5908 | 0.299 | 27.638 | 27.637 | 27.648 | 27.647 |
| 17 | 1796.6 | 1818.1 | 2.168 | 2.044 | | 34.579 | 34.5749 | 0.300 | 27.621 | 27.618 | 27.631 | 27.628 |
| 18 | 1600.6 | 1619.0 | 2.370 | 2.260 | | 34.542 | 34.5365 | 0.301 | 27.575 | 27.570 | 27.584 | 27.579 |
| 19 | 1401.4 | 1416.9 | 2.633 | 2.536 | | 34.487 | 34.4822 | 0.303 | 27.508 | 27.504 | 27.517 | 27.513 |
| 20 | 1201.1 | 1213.7 | 2.929 | 2.845 | | 34.418 | 34.4124 | 0.303 | 27.427 | 27.423 | 27.434 | 27.430 |
| 21 | 1000.9 | 1010.9 | 3.292 | 3.221 | | 34.323 | 34.3174 | 0.304 | 27.318 | 27.313 | 27.324 | 27.320 |

VENTS 1994 - LEG III
Station V94F16 Cast 16 24 SEP 1994
LAT: 38 30.01N LONG: 145 59.97W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.517 | | 170.0 | | |
| 2.519 | | 170.7 | | |
| 2.551 | | 172.1 | | |
| 2.590 | | 170.7 | | |
| 2.668 | | 172.4 | | |
| 2.765 | | 176.4 | | |
| 2.819 | 2.821 | 177.9 | 177.8 | 8.18 |
| 2.880 | 2.877 | 177.8 | 177.8 | 7.77 |
| 2.906 | 2.909 | 176.7 | 177.0 | 7.26 |
| 2.932 | 2.931 | 175.2 | 175.2 | 13.09 |
| 2.960 | 2.961 | 173.5 | 173.8 | 9.06 |
| 2.992 | | 172.0 | | 10.53 |
| 3.069 | | 167.6 | | |
| 3.135 | | 161.2 | | |
| 3.169 | | 151.8 | | |
| 3.158 | | 138.2 | | |

VENTS 1994 - LEG III
Station V94F17 Cast 17 25 SEP 1994
LAT: 37 30.05N LONG: 147 30.03W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4005.7 | 4074.4 | 1.491 | 1.164 | | 34.683 | 34.6829 | 0.295 | 27.756 | 27.756 | 27.780 | 27.779 |
| 2 | 3699.8 | 3760.6 | 1.488 | 1.195 | | 34.679 | 34.6788 | 0.296 | 27.753 | 27.753 | 27.774 | 27.774 |
| 3 | 3299.5 | 3350.5 | 1.517 | 1.266 | | 34.670 | | 0.297 | 27.744 | | 27.762 | |
| 4 | 3000.8 | 3045.1 | 1.560 | 1.338 | | 34.662 | 34.6612 | 0.297 | 27.735 | 27.734 | 27.751 | 27.750 |
| 5 | 2798.4 | 2838.4 | 1.605 | 1.401 | | 34.655 | 34.6540 | 0.298 | 27.726 | 27.725 | 27.740 | 27.740 |
| 6 | 2600.8 | 2636.7 | 1.667 | 1.481 | | 34.646 | 34.6461 | 0.297 | 27.714 | 27.714 | 27.728 | 27.728 |
| 7 | 2399.5 | 2431.5 | 1.762 | 1.592 | | 34.634 | 34.6348 | 0.298 | 27.697 | 27.698 | 27.710 | 27.710 |
| 8 | 2399.0 | 2431.0 | 1.762 | 1.592 | | 34.635 | 34.6344 | 0.299 | 27.698 | 27.697 | 27.711 | 27.710 |
| 9 | 2201.6 | 2229.9 | 1.857 | 1.703 | | 34.623 | | 0.299 | 27.681 | | 27.693 | |
| 10 | 2201.4 | 2229.7 | 1.859 | 1.705 | | 34.623 | 34.6228 | 0.299 | 27.681 | 27.681 | 27.692 | 27.692 |
| 11 | 2101.3 | 2127.8 | 1.926 | 1.780 | | 34.615 | 34.6151 | 0.299 | 27.669 | 27.669 | 27.680 | 27.680 |
| 12 | 2101.1 | 2127.6 | 1.927 | 1.781 | | 34.614 | 34.6163 | 0.299 | 27.668 | 27.670 | 27.679 | 27.681 |
| 13 | 2001.6 | 2026.4 | 2.001 | 1.862 | | 34.605 | 34.6050 | 0.300 | 27.655 | 27.655 | 27.666 | 27.666 |
| 14 | 2001.8 | 2026.5 | 2.003 | 1.864 | | 34.605 | 34.6047 | 0.299 | 27.655 | 27.655 | 27.666 | 27.666 |
| 15 | 1901.6 | 1924.7 | 2.095 | 1.964 | | 34.593 | 34.5929 | 0.300 | 27.638 | 27.638 | 27.649 | 27.648 |
| 16 | 1901.1 | 1924.2 | 2.096 | 1.965 | | 34.593 | 34.5925 | 0.301 | 27.638 | 27.638 | 27.648 | 27.648 |
| 17 | 1801.1 | 1822.5 | 2.187 | 2.063 | | 34.578 | 34.5769 | 0.301 | 27.619 | 27.618 | 27.629 | 27.628 |
| 18 | 1600.2 | 1618.5 | 2.404 | 2.294 | | 34.538 | 34.5380 | 0.303 | 27.569 | 27.569 | 27.578 | 27.578 |
| 19 | 1401.3 | 1416.6 | 2.672 | 2.575 | | 34.481 | 34.4805 | 0.304 | 27.500 | 27.500 | 27.509 | 27.508 |
| 20 | 1199.3 | 1211.8 | 2.940 | 2.856 | | 34.408 | 34.4077 | 0.305 | 27.418 | 27.418 | 27.426 | 27.425 |
| 21 | 1001.1 | 1011.1 | 3.340 | 3.269 | | 34.308 | 34.3097 | 0.305 | 27.301 | 27.302 | 27.308 | 27.309 |

VENTS 1994 - LEG III
Station V94F17 Cast 17 25 SEP 1994
LAT: 37 30.05N LONG: 147 30.03W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.566 | | 169.6 | | |
| 2.672 | | 171.5 | | |
| 2.716 | | 173.9 | | |
| 2.770 | | 176.3 | | |
| 2.830 | 2.833 | 178.3 | 178.1 | 4.69 |
| 2.878 | 2.873 | 178.1 | 178.1 | 12.35 |
| 2.906 | 2.905 | 177.2 | 177.2 | 7.10 |
| 2.934 | 2.930 | 175.9 | 175.2 | 9.34 |
| 2.971 | 2.969 | 173.5 | 173.6 | 15.15 |
| 3.003 | | 171.7 | | |
| 3.083 | | 167.0 | | |
| 3.154 | | 160.4 | | |
| 3.179 | | 151.4 | | |
| 3.158 | | 136.5 | | |

VENTS 1994 - LEG III
Station V94F18 Cast 18 25 SEP 1994
LAT: 36 30.01N LONG: 149 00.03W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5001.4 | 5098.4 | 1.551 | 1.103 | | 34.689 | 34.6884 | 0.294 | 27.757 | 27.756 | 27.789 | 27.788 |
| 2 | 4499.4 | 4581.4 | 1.507 | 1.122 | | 34.687 | 34.6857 | 0.295 | 27.759 | 27.757 | 27.786 | 27.785 |
| 3 | 4000.4 | 4068.7 | 1.479 | 1.153 | | 34.684 | 34.6824 | 0.295 | 27.758 | 27.757 | 27.781 | 27.780 |
| 4 | 3500.2 | 3555.8 | 1.483 | 1.212 | | 34.676 | 34.6753 | 0.296 | 27.751 | 27.751 | 27.771 | 27.770 |
| 5 | 2997.5 | 3041.4 | 1.545 | 1.323 | | 34.663 | 34.6617 | 0.298 | 27.736 | 27.735 | 27.752 | 27.751 |
| 6 | 2601.5 | 2637.2 | 1.671 | 1.485 | | 34.644 | 34.6437 | 0.299 | 27.712 | 27.712 | 27.726 | 27.725 |
| 7 | 2399.5 | 2431.2 | 1.763 | 1.593 | | 34.633 | 34.6317 | 0.299 | 27.696 | 27.695 | 27.709 | 27.708 |
| 8 | 2398.3 | 2430.1 | 1.764 | 1.594 | | 34.633 | 34.6319 | 0.300 | 27.696 | 27.695 | 27.709 | 27.708 |
| 9 | 2198.2 | 2226.2 | 1.855 | 1.702 | | 34.620 | 34.6200 | 0.300 | 27.679 | 27.679 | 27.690 | 27.690 |
| 10 | 2198.7 | 2226.8 | 1.855 | 1.702 | | 34.620 | | 0.301 | 27.679 | | 27.690 | |
| 11 | 2101.3 | 2127.6 | 1.923 | 1.777 | | 34.612 | 34.6115 | 0.302 | 27.667 | 27.667 | 27.678 | 27.678 |
| 12 | 2101.7 | 2128.1 | 1.924 | 1.778 | | 34.612 | 34.6113 | 0.301 | 27.667 | 27.666 | 27.678 | 27.678 |
| 13 | 2000.5 | 2025.0 | 1.998 | 1.860 | | 34.602 | 34.6022 | 0.302 | 27.653 | 27.653 | 27.664 | 27.664 |
| 14 | 2000.5 | 2025.1 | 1.999 | 1.861 | | 34.603 | 34.6013 | 0.303 | 27.654 | 27.652 | 27.665 | 27.663 |
| 15 | 1899.3 | 1922.1 | 2.096 | 1.965 | | 34.590 | 34.5890 | 0.303 | 27.636 | 27.635 | 27.646 | 27.645 |
| 16 | 1899.1 | 1922.0 | 2.097 | 1.966 | | 34.590 | 34.5886 | 0.302 | 27.636 | 27.634 | 27.646 | 27.645 |
| 17 | 1800.9 | 1822.2 | 2.211 | 2.086 | | 34.575 | 34.5744 | 0.303 | 27.614 | 27.614 | 27.624 | 27.624 |
| 18 | 1600.5 | 1618.6 | 2.477 | 2.366 | | 34.547 | 34.5470 | 0.302 | 27.570 | 27.570 | 27.579 | 27.579 |
| 19 | 1400.8 | 1416.0 | 2.798 | 2.699 | | 34.497 | 34.4966 | 0.304 | 27.502 | 27.501 | 27.511 | 27.510 |
| 20 | 1199.5 | 1211.9 | 3.114 | 3.029 | | 34.427 | 34.4277 | 0.305 | 27.417 | 27.418 | 27.425 | 27.426 |
| 21 | 1001.8 | 1011.7 | 3.458 | 3.386 | | 34.323 | 34.3226 | 0.305 | 27.302 | 27.301 | 27.309 | 27.308 |

VENTS 1994 - LEG III
Station V94F18 Cast 18 25 SEP 1994
LAT: 36 30.01N LONG: 149 00.03W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.464 | | 156.6 | | |
| 2.496 | | 163.0 | | |
| 2.526 | | 165.8 | | |
| 2.575 | | 167.0 | | |
| 2.661 | | 170.7 | | |
| 2.775 | | 175.9 | | |
| 2.837 | 2.836 | 177.7 | 177.8 | 7.75 |
| 2.885 | 2.885 | 177.9 | 177.9 | 7.19 |
| 2.915 | 2.915 | 177.1 | 177.1 | 9.59 |
| 2.940 | 2.940 | 175.7 | 175.7 | 8.80 |
| 2.978 | 2.976 | 173.6 | 173.5 | 11.39 |
| 3.011 | | 170.7 | | |
| 3.065 | | 163.3 | | |
| 3.138 | | 154.8 | | |
| 3.185 | | 146.1 | | |
| 3.177 | | 133.6 | | |

VENTS 1994 - LEG III
Station V94F19 Cast 19 26 SEP 1994
LAT: 35 30.06N LONG: 150 29.82W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4003.7 | 4071.6 | 1.481 | 1.155 | | 34.684 | 34.6832 | 0.296 | 27.758 | 27.757 | 27.781 | 27.780 |
| 2 | 3702.7 | 3763.0 | 1.478 | 1.185 | | 34.681 | 34.6798 | 0.296 | 27.756 | 27.755 | 27.777 | 27.776 |
| 3 | 3300.8 | 3351.3 | 1.505 | 1.254 | | 34.672 | 34.6720 | 0.297 | 27.747 | 27.747 | 27.765 | 27.765 |
| 4 | 2999.8 | 3043.6 | 1.548 | 1.326 | | 34.664 | 34.6633 | 0.298 | 27.737 | 27.736 | 27.753 | 27.752 |
| 5 | 2801.4 | 2841.0 | 1.600 | 1.396 | | 34.656 | | 0.298 | 27.727 | | 27.742 | |
| 6 | 2600.0 | 2635.4 | 1.660 | 1.474 | | 34.648 | 34.6475 | 0.298 | 27.716 | 27.715 | 27.730 | 27.729 |
| 7 | 2400.2 | 2431.8 | 1.732 | 1.563 | | 34.638 | 34.6385 | 0.298 | 27.702 | 27.703 | 27.715 | 27.715 |
| 8 | 2399.9 | 2431.5 | 1.733 | 1.564 | | 34.638 | 34.6387 | 0.299 | 27.702 | 27.703 | 27.715 | 27.716 |
| 9 | 2198.0 | 2225.9 | 1.833 | 1.680 | | 34.626 | 34.6267 | 0.300 | 27.685 | 27.686 | 27.697 | 27.697 |
| 10 | 2198.3 | 2226.1 | 1.833 | 1.680 | | 34.626 | 34.6260 | 0.300 | 27.685 | 27.685 | 27.697 | 27.697 |
| 12 | 2099.5 | 2125.6 | 1.893 | 1.748 | | 34.618 | 34.6175 | 0.300 | 27.674 | 27.674 | 27.685 | 27.685 |
| 13 | 1999.0 | 2023.3 | 1.973 | 1.835 | | 34.609 | 34.6078 | 0.300 | 27.661 | 27.660 | 27.671 | 27.670 |
| 14 | 1999.2 | 2023.5 | 1.974 | 1.836 | | 34.609 | 34.6086 | 0.300 | 27.661 | 27.660 | 27.671 | 27.671 |
| 15 | 1897.7 | 1920.4 | 2.066 | 1.935 | | 34.598 | 34.5973 | 0.301 | 27.644 | 27.644 | 27.655 | 27.654 |
| 16 | 1897.3 | 1920.0 | 2.067 | 1.936 | | 34.598 | 34.5981 | 0.301 | 27.644 | 27.644 | 27.655 | 27.655 |
| 17 | 1897.2 | 1919.9 | 2.067 | 1.936 | | 34.598 | 34.5976 | 0.301 | 27.644 | 27.644 | 27.655 | 27.654 |
| 18 | 1800.5 | 1821.5 | 2.167 | 2.043 | | 34.585 | 34.6039 | 0.301 | 27.626 | 27.641 | 27.636 | 27.651 |
| 19 | 1600.3 | 1618.2 | 2.424 | 2.313 | | 34.552 | 34.5528 | 0.302 | 27.578 | 27.579 | 27.587 | 27.588 |
| 20 | 1401.1 | 1416.2 | 2.736 | 2.638 | | 34.506 | 34.5054 | 0.303 | 27.514 | 27.514 | 27.523 | 27.523 |
| 21 | 1202.5 | 1214.9 | 2.984 | 2.900 | | 34.433 | 34.4330 | 0.305 | 27.434 | 27.434 | 27.442 | 27.442 |
| 22 | 995.3 | 1005.0 | 3.410 | 3.339 | | 34.315 | 34.3148 | 0.305 | 27.300 | 27.300 | 27.307 | 27.307 |

VENTS 1994 - LEG III
Station V94F19 Cast 19 26 SEP 1994
LAT: 35 30.06N LONG: 150 29.82W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.519 | | 164.8 | | |
| 2.546 | | 166.7 | | |
| 2.601 | | 169.9 | | |
| 2.658 | | 172.0 | | |
| 2.707 | | 174.6 | | |
| 2.759 | | 177.0 | | |
| 2.815 | 2.811 | 177.9 | 177.8 | 4.92 |
| 2.865 | 2.865 | 178.3 | 178.3 | 5.35 |
| | | | | 4.89 |
| 2.921 | 2.921 | 176.1 | 176.0 | 4.89 |
| 2.952 | 2.947 | 173.9 | 174.0 | 5.15 |
| 2.984 | | 171.6 | | |
| 3.056 | | 164.9 | | |
| 3.128 | | 156.9 | | |
| 3.183 | | 150.3 | | |
| 3.168 | | 134.8 | | |

VENTS 1994 - LEG III
Station V94F20 Cast 20 26 SEP 1994
LAT: 34 29.96N LONG: 152 00.02W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4999.2 | 5095.4 | 1.545 | 1.097 | | 34.691 | 34.6888 | 0.294 | 27.759 | 27.757 | 27.791 | 27.789 |
| 2 | 4499.0 | 4580.2 | 1.503 | 1.119 | | 34.688 | 34.6865 | 0.295 | 27.760 | 27.758 | 27.787 | 27.785 |
| 3 | 4000.6 | 4068.1 | 1.475 | 1.149 | | 34.685 | 34.6830 | 0.295 | 27.759 | 27.758 | 27.782 | 27.781 |
| 4 | 3500.6 | 3555.6 | 1.477 | 1.206 | | 34.679 | 34.6768 | 0.297 | 27.754 | 27.753 | 27.773 | 27.772 |
| 5 | 3001.1 | 3044.6 | 1.547 | 1.325 | | 34.665 | 34.6625 | 0.298 | 27.738 | 27.736 | 27.754 | 27.752 |
| 6 | 2602.6 | 2637.9 | 1.649 | 1.463 | | 34.650 | 34.6483 | 0.298 | 27.718 | 27.717 | 27.732 | 27.731 |
| 7 | 2399.2 | 2430.5 | 1.738 | 1.569 | | 34.639 | 34.6378 | 0.299 | 27.703 | 27.702 | 27.715 | 27.714 |
| 8 | 2398.3 | 2429.6 | 1.740 | 1.571 | | 34.639 | 34.6373 | 0.300 | 27.703 | 27.701 | 27.715 | 27.714 |
| 9 | 2199.2 | 2226.8 | 1.841 | 1.688 | | 34.626 | 34.6246 | 0.300 | 27.684 | 27.683 | 27.696 | 27.695 |
| 10 | 2199.0 | 2226.6 | 1.841 | 1.688 | | 34.626 | 34.6239 | 0.299 | 27.684 | 27.683 | 27.696 | 27.694 |
| 11 | 2099.6 | 2125.5 | 1.901 | 1.756 | | 34.619 | 34.6166 | 0.301 | 27.674 | 27.672 | 27.685 | 27.684 |
| 12 | 2099.1 | 2125.0 | 1.902 | 1.757 | | 34.618 | 34.6164 | 0.301 | 27.673 | 27.672 | 27.685 | 27.683 |
| 13 | 2000.6 | 2024.8 | 1.972 | 1.834 | | 34.610 | 34.6091 | 0.301 | 27.661 | 27.661 | 27.672 | 27.671 |
| 14 | 2000.8 | 2025.0 | 1.973 | 1.835 | | 34.610 | 34.6080 | 0.301 | 27.661 | 27.660 | 27.672 | 27.671 |
| 15 | 1898.5 | 1921.0 | 2.054 | 1.923 | | 34.600 | 34.5982 | 0.302 | 27.647 | 27.646 | 27.657 | 27.656 |
| 16 | 1898.6 | 1921.2 | 2.055 | 1.924 | | 34.600 | 34.5975 | 0.302 | 27.647 | 27.645 | 27.657 | 27.655 |
| 17 | 1800.2 | 1821.1 | 2.166 | 2.042 | | 34.586 | 34.5844 | 0.302 | 27.627 | 27.625 | 27.637 | 27.635 |
| 18 | 1600.7 | 1618.5 | 2.431 | 2.320 | | 34.553 | 34.5508 | 0.303 | 27.578 | 27.577 | 27.588 | 27.586 |
| 19 | 1400.6 | 1415.5 | 2.718 | 2.620 | | 34.503 | 34.5019 | 0.305 | 27.514 | 27.513 | 27.522 | 27.521 |
| 20 | 1199.9 | 1212.1 | 3.004 | 2.920 | | 34.427 | 34.4259 | 0.306 | 27.427 | 27.426 | 27.435 | 27.434 |
| 21 | 998.6 | 1008.2 | 3.374 | 3.303 | | 34.318 | 34.3162 | 0.307 | 27.306 | 27.304 | 27.313 | 27.311 |

VENTS 1994 - LEG III
Station V94F20 Cast 20 26 SEP 1994
LAT: 34 29.96N LONG: 152 00.02W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.463 | | 155.3 | | |
| 2.494 | | 160.4 | | |
| 2.520 | | 163.2 | | |
| 2.568 | | 166.1 | | |
| 2.665 | | 171.8 | | |
| 2.759 | | 176.2 | | |
| 2.823 | 2.822 | 178.2 | 178.0 | 5.51 |
| 2.875 | 2.873 | 178.1 | 178.1 | 6.76 |
| 2.901 | 2.902 | 177.3 | 177.3 | 6.06 |
| 2.926 | 2.926 | 176.0 | 176.0 | 5.37 |
| 2.958 | 2.950 | 173.8 | 174.4 | 6.33 |
| 2.991 | | 171.5 | | |
| 3.062 | | 164.4 | | |
| 3.140 | | 157.3 | | |
| 3.187 | | 149.4 | | |
| 3.172 | | 135.8 | | |

VENTS 1994 - LEG III
Station V94F21 Cast 21 26 SEP 1994
LAT: 33 29.94N LONG: 153 30.10W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3998.8 | 4065.9 | 1.476 | 1.151 | | 34.685 | 34.6903 | 0.295 | 27.759 | 27.763 | 27.782 | 27.786 |
| 2 | 3701.8 | 3761.3 | 1.471 | 1.178 | | 34.682 | 34.6885 | 0.296 | 27.757 | 27.762 | 27.778 | 27.783 |
| 3 | 3301.4 | 3351.3 | 1.494 | 1.243 | | 34.675 | 34.6737 | 0.297 | 27.750 | 27.749 | 27.768 | 27.767 |
| 4 | 3002.5 | 3045.8 | 1.539 | 1.317 | | 34.667 | 34.6712 | 0.298 | 27.740 | 27.743 | 27.756 | 27.759 |
| 5 | 2801.3 | 2840.4 | 1.586 | 1.382 | | 34.660 | 34.6598 | 0.298 | 27.731 | 27.731 | 27.746 | 27.746 |
| 6 | 2601.9 | 2636.9 | 1.652 | 1.466 | | 34.652 | 34.6553 | 0.299 | 27.720 | 27.722 | 27.733 | 27.736 |
| 7 | 2400.7 | 2431.8 | 1.731 | 1.562 | | 34.642 | 34.6421 | 0.299 | 27.706 | 27.706 | 27.718 | 27.718 |
| 8 | 2400.0 | 2431.2 | 1.731 | 1.562 | | 34.641 | 34.6448 | 0.299 | 27.705 | 27.708 | 27.718 | 27.721 |
| 9 | 2200.8 | 2228.3 | 1.830 | 1.677 | | 34.629 | 34.6393 | 0.300 | 27.688 | 27.696 | 27.699 | 27.708 |
| 10 | 2201.0 | 2228.5 | 1.830 | 1.677 | | 34.629 | 34.6304 | 0.300 | 27.688 | 27.689 | 27.699 | 27.701 |
| 11 | 2099.9 | 2125.6 | 1.898 | 1.753 | | 34.620 | 34.6205 | 0.300 | 27.675 | 27.676 | 27.686 | 27.687 |
| 12 | 2100.1 | 2125.9 | 1.898 | 1.753 | | 34.621 | 34.6188 | 0.300 | 27.676 | 27.674 | 27.687 | 27.685 |
| 13 | 2002.5 | 2026.5 | 1.969 | 1.831 | | 34.612 | 34.6120 | 0.300 | 27.663 | 27.663 | 27.674 | 27.674 |
| 14 | 2003.0 | 2027.0 | 1.969 | 1.831 | | 34.612 | 34.6138 | 0.300 | 27.663 | 27.665 | 27.674 | 27.676 |
| 15 | 1901.2 | 1923.6 | 2.073 | 1.942 | | 34.600 | 34.6025 | 0.301 | 27.645 | 27.647 | 27.656 | 27.658 |
| 16 | 1900.9 | 1923.3 | 2.074 | 1.943 | | 34.600 | 34.5983 | 0.301 | 27.645 | 27.644 | 27.656 | 27.654 |
| 17 | 1795.6 | 1816.3 | 2.193 | 2.069 | | 34.587 | 34.5867 | 0.302 | 27.625 | 27.625 | 27.635 | 27.635 |
| 18 | 1602.0 | 1619.7 | 2.448 | 2.337 | | 34.558 | 34.5606 | 0.303 | 27.581 | 27.583 | 27.590 | 27.592 |
| 19 | 1400.7 | 1415.5 | 2.767 | 2.669 | | 34.515 | 34.5142 | 0.303 | 27.519 | 27.518 | 27.528 | 27.527 |
| 20 | 1199.6 | 1211.7 | 3.104 | 3.019 | | 34.444 | 34.4440 | 0.305 | 27.432 | 27.432 | 27.440 | 27.440 |
| 21 | 1002.1 | 1011.7 | 3.501 | 3.429 | | 34.335 | 34.4445 | 0.305 | 27.307 | 27.394 | 27.314 | 27.401 |

VENTS 1994 - LEG III
Station V94F21 Cast 21 26 SEP 1994
LAT: 33 29.94N LONG: 153 30.10W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.516 | | 163.6 | | |
| 2.547 | | 166.5 | | |
| 2.603 | | 170.0 | | |
| 2.660 | | 173.5 | | |
| 2.704 | | 175.5 | | |
| 2.754 | | 177.1 | | |
| 2.810 | 2.806 | 177.7 | 177.7 | 8.52 |
| 2.865 | 2.863 | 177.3 | 177.4 | 6.41 |
| 2.894 | 2.888 | 176.6 | 176.6 | 8.83 |
| 2.921 | 2.921 | 175.3 | 175.2 | 6.52 |
| 2.959 | 2.954 | 173.2 | 173.0 | 7.03 |
| 2.993 | | 170.1 | | |
| 3.055 | | 163.4 | | |
| 3.128 | | 154.9 | | |
| 3.184 | | 146.2 | | |
| 3.184 | | 146.3 | | |

VENTS 1994 - LEG III
Station V94F22 Cast 22 27 SEP 1994
LAT: 32 30.03N LONG: 155 00.07W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5001.1 | 5096.4 | 1.541 | 1.093 | | 34.691 | 34.6911 | 0.294 | 27.759 | 27.759 | 27.791 | 27.791 |
| 2 | 4500.7 | 4581.2 | 1.498 | 1.114 | | 34.689 | 34.6877 | 0.294 | 27.761 | 27.760 | 27.788 | 27.787 |
| 3 | 4001.4 | 4068.2 | 1.478 | 1.152 | | 34.685 | | 0.295 | 27.759 | | 27.782 | |
| 4 | 3497.0 | 3551.2 | 1.484 | 1.213 | | 34.679 | 34.6839 | 0.295 | 27.754 | 27.758 | 27.773 | 27.777 |
| 5 | 3001.9 | 3044.9 | 1.555 | 1.333 | | 34.665 | 34.6672 | 0.297 | 27.737 | 27.739 | 27.753 | 27.755 |
| 6 | 2601.9 | 2636.8 | 1.675 | 1.488 | | 34.651 | 34.6503 | 0.298 | 27.717 | 27.717 | 27.731 | 27.730 |
| 7 | 2398.5 | 2429.4 | 1.757 | 1.588 | | 34.641 | 34.6425 | 0.299 | 27.703 | 27.704 | 27.716 | 27.717 |
| 8 | 2397.3 | 2428.2 | 1.757 | 1.588 | | 34.641 | 34.6412 | 0.299 | 27.703 | 27.703 | 27.716 | 27.716 |
| 9 | 2201.4 | 2228.7 | 1.872 | 1.718 | | 34.628 | 34.6293 | 0.300 | 27.684 | 27.685 | 27.695 | 27.697 |
| 10 | 2202.7 | 2230.0 | 1.872 | 1.718 | | 34.628 | 34.6278 | 0.300 | 27.684 | 27.684 | 27.695 | 27.695 |
| 11 | 2098.1 | 2123.6 | 1.945 | 1.799 | | 34.619 | 34.6197 | 0.300 | 27.671 | 27.671 | 27.682 | 27.683 |
| 12 | 2098.3 | 2123.8 | 1.945 | 1.799 | | 34.619 | 34.6192 | 0.300 | 27.671 | 27.671 | 27.682 | 27.682 |
| 13 | 2000.1 | 2024.0 | 2.017 | 1.878 | | 34.611 | | 0.301 | 27.659 | | 27.670 | |
| 14 | 2000.3 | 2024.2 | 2.018 | 1.879 | | 34.611 | 34.6106 | 0.301 | 27.659 | 27.658 | 27.670 | 27.669 |
| 15 | 1900.8 | 1923.0 | 2.103 | 1.972 | | 34.600 | 34.6008 | 0.301 | 27.643 | 27.644 | 27.653 | 27.654 |
| 16 | 1900.7 | 1922.9 | 2.104 | 1.973 | | 34.600 | 34.6100 | 0.302 | 27.643 | 27.651 | 27.653 | 27.661 |
| 17 | 1801.1 | 1821.8 | 2.210 | 2.085 | | 34.588 | 34.5883 | 0.301 | 27.625 | 27.625 | 27.635 | 27.635 |
| 18 | 1601.0 | 1618.6 | 2.510 | 2.398 | | 34.555 | 34.5552 | 0.302 | 27.573 | 27.573 | 27.583 | 27.583 |
| 19 | 1401.2 | 1415.9 | 2.850 | 2.751 | | 34.514 | 34.5159 | 0.303 | 27.511 | 27.512 | 27.520 | 27.521 |
| 20 | 1200.8 | 1212.8 | 3.193 | 3.107 | | 34.448 | 34.4509 | 0.305 | 27.427 | 27.429 | 27.435 | 27.437 |
| 21 | 1002.9 | 1012.4 | 3.588 | 3.515 | | 34.336 | 34.3374 | 0.305 | 27.300 | 27.301 | 27.307 | 27.308 |

VENTS 1994 - LEG III
Station V94F22 Cast 22 27 SEP 1994
LAT: 32 30.03N LONG: 155 00.07W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.451 | | 154.3 | | |
| 2.475 | | 158.2 | | |
| 2.571 | | 167.7 | | |
| 2.667 | | 174.2 | | |
| 2.756 | | 176.9 | | |
| 2.796 | 2.796 | 176.0 | 176.1 | |
| 2.844 | 2.844 | 174.5 | 174.5 | |
| 2.877 | 2.877 | 173.9 | 173.9 | |
| 2.911 | 2.287 | 173.0 | | |
| 2.940 | 2.941 | 171.0 | 171.0 | |
| 2.979 | | 168.8 | | |
| 3.053 | | 160.9 | | |
| 3.126 | | 152.3 | | |
| 3.182 | | 143.6 | | |
| 3.190 | | 130.7 | | |

VENTS 1994 - LEG III
Station V94F23 Cast 23 27 SEP 1994
LAT: 30 50.10N LONG: 155 00.03W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4010.3 | 4076.8 | 1.487 | 1.160 | | 34.685 | 34.6836 | | 27.758 | 27.757 | 27.781 | 27.780 |
| 2 | 3700.5 | 3759.2 | 1.490 | 1.197 | | 34.681 | 34.6796 | | 27.755 | 27.754 | 27.776 | 27.775 |
| 3 | 3299.0 | 3348.2 | 1.517 | 1.266 | | 34.674 | 34.6726 | | 27.747 | 27.746 | 27.765 | 27.764 |
| 4 | 2992.8 | 3035.2 | 1.563 | 1.341 | | 34.666 | | | 27.738 | | 27.754 | |
| 5 | 2800.9 | 2839.3 | 1.605 | 1.401 | | 34.659 | 34.6580 | | 27.729 | 27.728 | 27.744 | 27.743 |
| 6 | 2600.7 | 2635.2 | 1.677 | 1.491 | | 34.651 | 34.6493 | | 27.717 | 27.716 | 27.731 | 27.729 |
| 7 | 2400.2 | 2430.8 | 1.759 | 1.589 | | 34.642 | 34.6406 | | 27.704 | 27.702 | 27.716 | 27.715 |
| 8 | 2400.5 | 2431.1 | 1.759 | 1.589 | | 34.642 | 34.6407 | | 27.704 | 27.703 | 27.716 | 27.715 |
| 9 | 2199.9 | 2226.9 | 1.873 | 1.719 | | 34.630 | 34.6293 | | 27.685 | 27.685 | 27.697 | 27.696 |
| 10 | 2200.1 | 2227.1 | 1.874 | 1.720 | | 34.630 | 34.6288 | | 27.685 | 27.684 | 27.697 | 27.696 |
| 11 | 2099.4 | 2124.7 | 1.944 | 1.798 | | 34.622 | 34.6218 | | 27.673 | 27.673 | 27.685 | 27.684 |
| 12 | 2100.1 | 2125.4 | 1.945 | 1.799 | | 34.622 | 34.6205 | | 27.673 | 27.672 | 27.685 | 27.683 |
| 13 | 1999.6 | 2023.1 | 2.012 | 1.873 | | 34.615 | 34.6140 | | 27.662 | 27.662 | 27.673 | 27.672 |
| 14 | 1999.7 | 2023.3 | 2.012 | 1.873 | | 34.615 | 34.6127 | | 27.662 | 27.660 | 27.673 | 27.671 |
| 15 | 1899.2 | 1921.2 | 2.109 | 1.978 | | 34.605 | 34.6039 | | 27.647 | 27.646 | 27.657 | 27.656 |
| 16 | 1897.6 | 1919.5 | 2.111 | 1.980 | | 34.605 | 34.6024 | | 27.646 | 27.644 | 27.657 | 27.655 |
| 17 | 1796.4 | 1816.6 | 2.225 | 2.101 | | 34.593 | 34.5912 | | 27.628 | 27.626 | 27.638 | 27.636 |
| 18 | 1601.5 | 1618.8 | 2.502 | 2.390 | | 34.565 | 34.5627 | | 27.582 | 27.580 | 27.591 | 27.590 |
| 19 | 1400.3 | 1414.8 | 2.866 | 2.767 | | 34.525 | 34.5232 | | 27.518 | 27.517 | 27.527 | 27.526 |
| 20 | 1201.5 | 1213.3 | 3.232 | 3.145 | | 34.463 | 34.4614 | | 27.435 | 27.434 | 27.443 | 27.442 |
| 21 | 1000.6 | 1010.0 | 3.640 | 3.567 | | 34.346 | 34.3450 | | 27.302 | 27.302 | 27.310 | 27.309 |

VENTS 1994 - LEG III
Station V94F23 Cast 23 27 SEP 1994
LAT: 30 50.10N LONG: 155 00.03W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.524 | | 162.3 | | |
| 2.550 | | 164.9 | | |
| 2.607 | | 168.5 | | |
| 2.704 | | 173.9 | | |
| 2.746 | | 174.6 | | |
| 2.784 | 2.785 | 173.1 | 173.1 | 6.05 |
| 2.822 | 2.818 | 169.9 | 170.0 | 6.78 |
| 2.840 | 2.841 | 167.8 | 167.7 | 6.51 |
| 2.870 | 2.865 | 167.4 | 167.5 | 6.79 |
| 2.897 | 2.889 | 165.2 | 165.1 | 7.80 |
| 2.922 | | 162.1 | | |
| 3.011 | | 157.4 | | |
| 3.084 | | 149.0 | | |
| 3.173 | | 141.3 | | |
| 3.200 | | 129.2 | | |

VENTS 1994 - LEG III
Station V94F24 Cast 24 28 SEP 1994
LAT: 29 09.88N LONG: 155 00.03W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5920.3 | 6044.1 | 1.630 | 1.057 | | 34.693 | 34.3313 | | 27.754 | 27.464 | 27.795 | 27.504 |
| 2 | 5003.0 | 5096.9 | 1.520 | 1.073 | | 34.692 | | | 27.762 | | 27.793 | |
| 3 | 3961.1 | 4025.8 | 1.487 | 1.166 | | 34.684 | 34.6699 | | 27.758 | 27.746 | 27.780 | 27.769 |
| 4 | 3578.4 | 3633.6 | 1.502 | 1.222 | | 34.679 | 34.6695 | | 27.752 | 27.745 | 27.772 | 27.765 |
| 5 | 2999.4 | 3041.6 | 1.562 | 1.340 | | 34.667 | | | 27.738 | | 27.754 | |
| 6 | 2600.1 | 2634.2 | 1.672 | 1.486 | | 34.653 | 34.6558 | | 27.719 | 27.721 | 27.733 | 27.735 |
| 7 | 2400.3 | 2430.6 | 1.753 | 1.584 | | 34.643 | 34.6442 | | 27.705 | 27.706 | 27.718 | 27.719 |
| 8 | 2400.5 | 2430.8 | 1.753 | 1.583 | | 34.643 | 34.6291 | | 27.705 | 27.694 | 27.718 | 27.706 |
| 9 | 2200.8 | 2227.5 | 1.867 | 1.713 | | 34.630 | 34.6206 | | 27.686 | 27.678 | 27.697 | 27.690 |
| 10 | 2200.8 | 2227.5 | 1.867 | 1.713 | | 34.630 | 34.6198 | | 27.686 | 27.678 | 27.697 | 27.689 |
| 11 | 2099.1 | 2124.1 | 1.934 | 1.788 | | 34.622 | 34.6070 | | 27.674 | 27.662 | 27.685 | 27.673 |
| 12 | 2099.0 | 2124.0 | 1.934 | 1.788 | | 34.622 | 34.6062 | | 27.674 | 27.661 | 27.685 | 27.673 |
| 13 | 2002.1 | 2025.4 | 2.008 | 1.869 | | 34.615 | 34.5999 | | 27.663 | 27.651 | 27.673 | 27.661 |
| 14 | 2002.4 | 2025.7 | 2.008 | 1.869 | | 34.615 | 34.5980 | | 27.663 | 27.649 | 27.673 | 27.660 |
| 15 | 1898.8 | 1920.5 | 2.121 | 1.989 | | 34.604 | 34.5922 | | 27.645 | 27.635 | 27.655 | 27.646 |
| 16 | 1898.9 | 1920.5 | 2.124 | 1.992 | | 34.604 | 34.5929 | | 27.645 | 27.636 | 27.655 | 27.646 |
| 17 | 1800.5 | 1820.6 | 2.236 | 2.111 | | 34.592 | 34.5824 | | 27.626 | 27.618 | 27.636 | 27.628 |
| 18 | 1601.8 | 1619.0 | 2.471 | 2.360 | | 34.569 | 34.5808 | | 27.588 | 27.597 | 27.597 | 27.607 |
| 19 | 1001.2 | 1010.4 | 3.648 | 3.574 | | 34.354 | 34.5700 | | 27.308 | 27.480 | 27.315 | 27.487 |
| 20 | 1001.0 | 1010.2 | 3.649 | 3.575 | | 34.354 | 34.5466 | | 27.308 | 27.461 | 27.315 | 27.469 |
| 21 | 1001.4 | 1010.7 | 3.648 | 3.574 | | 34.354 | 34.3327 | | 27.308 | 27.291 | 27.315 | 27.298 |

VENTS 1994 - LEG III
Station V94F24 Cast 24 28 SEP 1994
LAT: 29 09.88N LONG: 155 00.03W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.414 | | 149.5 | | |
| 2.427 | | 151.6 | | |
| 2.552 | | 166.3 | | |
| 2.625 | | 169.4 | | |
| 2.705 | | 171.7 | | |
| 2.741 | | 170.8 | | 7.60 |
| 2.785 | | 169.2 | | 7.02 |
| 2.786 | | 168.5 | | 6.10 |
| 2.807 | | 165.7 | | 6.33 |
| 2.832 | | 163.0 | | 7.42 |
| 2.870 | | 161.3 | | |
| 2.912 | | 155.4 | | |
| 3.167 | | 129.4 | | |

VENTS 1994 - LEG III
Station V94F25 Cast 25 28 SEP 1994
LAT: 27 29.91N LONG: 155 00.14W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4005.8 | 4071.1 | 1.486 | 1.160 | | 34.685 | 34.6613 | | 27.758 | 27.739 | 27.781 | 27.762 |
| 2 | 3700.5 | 3758.2 | 1.493 | 1.200 | | 34.682 | 34.6594 | | 27.756 | 27.737 | 27.776 | 27.758 |
| 3 | 3301.6 | 3349.9 | 1.526 | 1.274 | | 34.675 | 34.6531 | | 27.747 | 27.730 | 27.765 | 27.748 |
| 4 | 3000.0 | 3041.8 | 1.571 | 1.349 | | 34.667 | 34.6466 | | 27.738 | 27.721 | 27.754 | 27.737 |
| 5 | 2801.7 | 2839.3 | 1.626 | 1.422 | | 34.660 | 34.6405 | | 27.728 | 27.712 | 27.743 | 27.727 |
| 6 | 2601.2 | 2634.9 | 1.693 | 1.506 | | 34.652 | 34.6340 | | 27.717 | 27.702 | 27.730 | 27.716 |
| 7 | 2400.1 | 2430.0 | 1.790 | 1.620 | | 34.642 | | | 27.701 | | 27.714 | |
| 8 | 2399.5 | 2429.5 | 1.791 | 1.621 | | 34.642 | 34.6255 | | 27.701 | 27.688 | 27.714 | 27.701 |
| 9 | 2199.8 | 2226.2 | 1.925 | 1.770 | | 34.628 | 34.6138 | | 27.680 | 27.668 | 27.692 | 27.680 |
| 10 | 2199.9 | 2226.3 | 1.926 | 1.771 | | 34.628 | 34.6145 | | 27.680 | 27.669 | 27.691 | 27.681 |
| 11 | 2102.2 | 2126.9 | 2.000 | 1.853 | | 34.622 | 34.6098 | | 27.669 | 27.659 | 27.680 | 27.671 |
| 12 | 2102.0 | 2126.8 | 2.001 | 1.854 | | 34.622 | 34.6109 | | 27.669 | 27.660 | 27.680 | 27.671 |
| 13 | 2001.5 | 2024.6 | 2.081 | 1.941 | | 34.614 | 34.6045 | | 27.656 | 27.648 | 27.667 | 27.659 |
| 14 | 2001.6 | 2024.6 | 2.082 | 1.942 | | 34.614 | 34.6055 | | 27.656 | 27.649 | 27.667 | 27.660 |
| 15 | 1898.9 | 1920.3 | 2.190 | 2.057 | | 34.604 | 34.5972 | | 27.639 | 27.634 | 27.650 | 27.644 |
| 16 | 1894.1 | 1915.4 | 2.200 | 2.068 | | 34.604 | 34.5967 | | 27.638 | 27.633 | 27.649 | 27.643 |
| 17 | 1801.0 | 1820.9 | 2.321 | 2.195 | | 34.593 | 34.5872 | | 27.620 | 27.615 | 27.630 | 27.625 |
| 18 | 1599.6 | 1616.5 | 2.585 | 2.472 | | 34.571 | 34.5670 | | 27.580 | 27.576 | 27.589 | 27.586 |
| 19 | 1402.4 | 1416.5 | 2.916 | 2.816 | | 34.536 | 34.5335 | | 27.522 | 27.520 | 27.531 | 27.529 |
| 20 | 1198.7 | 1210.2 | 3.281 | 3.194 | | 34.481 | 34.4800 | | 27.445 | 27.444 | 27.453 | 27.452 |
| 21 | 997.5 | 1006.5 | 3.762 | 3.688 | | 34.391 | 34.3910 | | 27.326 | 27.326 | 27.333 | 27.333 |

VENTS 1994 - LEG III
Station V94F25 Cast 25 28 SEP 1994
LAT: 27 29.91N LONG: 155 00.14W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.522 | | 161.1 | | |
| 2.547 | | 163.6 | | |
| 2.598 | | 166.6 | | |
| 2.645 | | 168.8 | | |
| 2.684 | | 170.0 | | |
| 2.731 | | 170.3 | | |
| 2.776 | 2.773 | 170.3 | 170.3 | 6.57 |
| 2.822 | 2.820 | 167.7 | 167.7 | 5.57 |
| 2.844 | 2.843 | 165.6 | 165.6 | 5.03 |
| 2.864 | 2.860 | 163.4 | 163.9 | 6.71 |
| 2.886 | 2.883 | 160.3 | 160.9 | 6.81 |
| 2.905 | | 157.1 | | |
| 2.943 | | 150.2 | | |
| 3.002 | | 142.6 | | |
| 3.074 | | 135.0 | | |
| 3.120 | | 123.6 | | |

VENTS 1994 - LEG III
Station V94F26 Cast 26 28 SEP 1994
LAT: 25 50.03N LONG: 155 00.02W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2998.7 | 3040.0 | 1.557 | 1.335 | | 34.668 | 34.6483 | | 27.740 | 27.724 | 27.756 | 27.740 |
| 2 | 2701.1 | 2736.4 | 1.637 | 1.442 | | 34.658 | 34.6573 | | 27.726 | 27.725 | 27.740 | 27.739 |
| 3 | 2401.3 | 2431.0 | 1.788 | 1.618 | | 34.643 | 34.6409 | | 27.702 | 27.701 | 27.715 | 27.713 |
| 4 | 2202.4 | 2228.6 | 1.935 | 1.780 | | 34.630 | 34.6283 | | 27.680 | 27.679 | 27.692 | 27.691 |
| 5 | 2102.6 | 2127.1 | 2.024 | 1.876 | | 34.622 | 34.6208 | | 27.667 | 27.666 | 27.679 | 27.678 |
| 6 | 2001.0 | 2023.8 | 2.134 | 1.994 | | 34.613 | 34.6117 | | 27.651 | 27.650 | 27.662 | 27.661 |
| 7 | 2001.3 | 2024.1 | 2.135 | 1.995 | | 34.613 | 34.6110 | | 27.651 | 27.649 | 27.662 | 27.660 |
| 8 | 1899.8 | 1921.0 | 2.260 | 2.126 | | 34.603 | 34.6008 | | 27.633 | 27.631 | 27.644 | 27.642 |
| 9 | 1800.2 | 1819.9 | 2.398 | 2.271 | | 34.593 | 34.5902 | | 27.613 | 27.611 | 27.624 | 27.622 |
| 10 | 1599.8 | 1616.5 | 2.730 | 2.616 | | 34.568 | 34.5657 | | 27.565 | 27.563 | 27.575 | 27.573 |
| 11 | 1400.2 | 1414.1 | 3.037 | 2.936 | | 34.549 | 34.5463 | | 27.522 | 27.520 | 27.531 | 27.529 |
| 12 | 1196.2 | 1207.5 | 3.413 | 3.325 | | 34.513 | 34.5121 | | 27.458 | 27.457 | 27.466 | 27.465 |
| 13 | 1191.8 | 1203.1 | 3.417 | 3.330 | | 34.509 | 34.5075 | | 27.454 | 27.453 | 27.462 | 27.461 |
| 14 | 1105.4 | 1115.6 | 3.623 | 3.541 | | 34.481 | 34.4777 | | 27.412 | 27.409 | 27.420 | 27.417 |
| 15 | 1106.5 | 1116.7 | 3.622 | 3.540 | | 34.481 | 34.4777 | | 27.412 | 27.409 | 27.420 | 27.417 |
| 16 | 1000.4 | 1009.4 | 3.868 | 3.793 | | 34.444 | 34.4405 | | 27.358 | 27.355 | 27.365 | 27.362 |
| 17 | 1001.1 | 1010.1 | 3.868 | 3.793 | | 34.444 | 34.4404 | | 27.358 | 27.355 | 27.365 | 27.362 |
| 18 | 897.5 | 905.4 | 4.158 | 4.089 | | 34.379 | 34.5742 | | 27.276 | 27.431 | 27.283 | 27.438 |
| 19 | 896.9 | 904.7 | 4.157 | 4.088 | | 34.376 | 34.3729 | | 27.274 | 27.271 | 27.281 | 27.278 |
| 20 | 805.0 | 811.9 | 4.321 | 4.259 | | 34.267 | 34.2621 | | 27.169 | 27.166 | 27.176 | 27.172 |
| 21 | 808.9 | 815.7 | 4.313 | 4.251 | | 34.270 | 34.2661 | | 27.173 | 27.170 | 27.179 | 27.176 |

VENTS 1994 - LEG III
Station V94F26 Cast 26 28 SEP 1994
LAT: 25 50.03N LONG: 155 00.02W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.646 | | 167.7 | | |
| 2.705 | | 169.9 | | |
| 2.782 | | 169.9 | | |
| 2.823 | | 166.8 | | |
| 2.846 | | 164.3 | | |
| 2.864 | 2.865 | 160.8 | 160.8 | 5.03 |
| 2.886 | | 157.1 | | |
| 2.905 | | 153.1 | | |
| 2.946 | | 144.8 | | |
| 2.978 | | 137.1 | | |
| 3.012 | 3.006 | 128.6 | 128.5 | 8.06 |
| 3.034 | 3.029 | 124.3 | 124.3 | 9.04 |
| 3.061 | 3.061 | 119.0 | 119.1 | 7.01 |
| 3.097 | 3.093 | 112.9 | 112.9 | 9.29 |
| 3.134 | | 108.5 | | |

VENTS 1994 - LEG III
Station V94F27 Cast 27 29 SEP 1994
LAT: 24 10.00N LONG: 154 59.98W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3004.2 | 3045.3 | 1.521 | 1.299 | | 34.671 | 34.6680 | | 27.745 | 27.742 | 27.761 | 27.758 |
| 2 | 2700.1 | 2735.1 | 1.603 | 1.409 | | 34.661 | 34.6591 | | 27.731 | 27.729 | 27.745 | 27.743 |
| 3 | 2399.5 | 2428.9 | 1.741 | 1.572 | | 34.646 | 34.6444 | | 27.708 | 27.707 | 27.721 | 27.720 |
| 4 | 2200.4 | 2226.3 | 1.870 | 1.716 | | 34.634 | 34.6327 | | 27.689 | 27.688 | 27.700 | 27.699 |
| 5 | 2101.3 | 2125.5 | 1.951 | 1.805 | | 34.627 | 34.6267 | | 27.677 | 27.676 | 27.688 | 27.688 |
| 7 | 2000.4 | 2023.0 | 2.049 | 1.910 | | 34.620 | 34.6207 | | 27.663 | 27.664 | 27.674 | 27.675 |
| 8 | 1900.1 | 1921.1 | 2.169 | 2.037 | | 34.611 | 34.6096 | | 27.647 | 27.645 | 27.657 | 27.656 |
| 9 | 1797.5 | 1816.9 | 2.300 | 2.175 | | 34.601 | 34.5999 | | 27.628 | 27.627 | 27.638 | 27.637 |
| 10 | 1596.0 | 1612.4 | 2.634 | 2.521 | | 34.583 | 34.5804 | | 27.585 | 27.583 | 27.595 | 27.593 |
| 11 | 1401.2 | 1415.0 | 2.967 | 2.867 | | 34.555 | 34.5539 | | 27.533 | 27.532 | 27.542 | 27.541 |
| 12 | 1203.2 | 1214.5 | 3.462 | 3.373 | | 34.521 | 34.5208 | | 27.459 | 27.459 | 27.468 | 27.468 |
| 13 | 1203.7 | 1215.0 | 3.461 | 3.372 | | 34.521 | 34.5217 | | 27.459 | 27.460 | 27.468 | 27.468 |
| 14 | 1102.2 | 1112.2 | 3.640 | 3.558 | | 34.498 | 34.4964 | | 27.423 | 27.422 | 27.432 | 27.430 |
| 15 | 1102.6 | 1112.7 | 3.639 | 3.557 | | 34.498 | 34.4960 | | 27.424 | 27.422 | 27.432 | 27.430 |
| 16 | 1002.6 | 1011.5 | 3.792 | 3.717 | | 34.451 | 34.4463 | | 27.371 | 27.367 | 27.378 | 27.375 |
| 17 | 1002.2 | 1011.1 | 3.791 | 3.716 | | 34.451 | 34.4480 | | 27.371 | 27.369 | 27.378 | 27.376 |
| 18 | 901.6 | 909.4 | 4.004 | 3.936 | | 34.391 | 34.3849 | | 27.301 | 27.297 | 27.308 | 27.304 |
| 19 | 901.5 | 909.3 | 4.005 | 3.937 | | 34.391 | 34.3096 | | 27.301 | 27.237 | 27.308 | 27.244 |
| 20 | 800.3 | 807.0 | 4.450 | 4.388 | | 34.318 | 34.3084 | | 27.196 | 27.189 | 27.203 | 27.195 |
| 21 | 800.8 | 807.5 | 4.455 | 4.392 | | 34.319 | | | 27.196 | | 27.203 | |

VENTS 1994 - LEG III
Station V94F27 Cast 27 29 SEP 1994
LAT: 24 10.00N LONG: 154 59.98W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.614 | | 164.9 | | |
| 2.678 | | 167.8 | | |
| 2.742 | | 167.2 | | |
| 2.792 | | 165.6 | | |
| 2.809 | | 163.8 | | |
| 2.832 | 2.826 | 161.0 | 161.0 | 4.74 |
| 2.849 | | 157.9 | | |
| 2.866 | | 154.2 | | |
| 2.927 | | 146.3 | | |
| 2.956 | | 138.2 | | |
| 3.005 | 3.004 | 126.9 | 127.0 | 5.71 |
| 3.027 | 3.019 | 123.2 | 123.1 | 6.15 |
| 3.052 | 3.059 | 120.9 | 120.9 | 6.05 |
| 3.084 | 3.084 | 116.3 | 116.3 | 6.09 |
| 3.082 | | 105.8 | | |

VENTS 1994 - LEG III
Station V94F28 Cast 28 29 SEP 1994
LAT: 22 29.93N LONG: 154 59.95W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3000.1 | 3040.8 | 1.537 | 1.315 | | 34.670 | | | 27.743 | | 27.759 | |
| 2 | 2701.2 | 2735.9 | 1.638 | 1.443 | | 34.658 | | | 27.726 | | 27.740 | |
| 3 | 2399.3 | 2428.4 | 1.813 | 1.643 | | 34.642 | | | 27.699 | | 27.712 | |
| 4 | 2201.0 | 2226.6 | 1.958 | 1.803 | | 34.632 | | | 27.680 | | 27.692 | |
| 5 | 2100.7 | 2124.7 | 2.051 | 1.903 | | 34.625 | | | 27.667 | | 27.679 | |
| 6 | 1999.9 | 2022.2 | 2.161 | 2.020 | | 34.618 | | | 27.653 | | 27.664 | |
| 7 | 1999.5 | 2021.8 | 2.161 | 2.020 | | 34.618 | | | 27.653 | | 27.664 | |
| 8 | 1901.9 | 1922.7 | 2.264 | 2.130 | | 34.611 | | | 27.639 | | 27.650 | |
| 9 | 1800.4 | 1819.7 | 2.408 | 2.281 | | 34.601 | | | 27.619 | | 27.629 | |
| 10 | 1600.9 | 1617.2 | 2.757 | 2.642 | | 34.580 | | | 27.572 | | 27.582 | |
| 11 | 1401.3 | 1414.9 | 3.123 | 3.021 | | 34.556 | | | 27.519 | | 27.529 | |
| 12 | 1202.0 | 1213.1 | 3.637 | 3.547 | | 34.529 | | | 27.448 | | 27.457 | |
| 13 | 1201.8 | 1212.9 | 3.638 | 3.548 | | 34.529 | | | 27.448 | | 27.457 | |
| 14 | 1101.3 | 1111.2 | 3.917 | 3.833 | | 34.510 | | | 27.405 | | 27.414 | |
| 15 | 1101.1 | 1111.0 | 3.917 | 3.833 | | 34.510 | | | 27.405 | | 27.414 | |
| 16 | 1000.8 | 1009.6 | 4.153 | 4.075 | | 34.489 | | | 27.364 | | 27.372 | |
| 17 | 1000.5 | 1009.2 | 4.154 | 4.076 | | 34.489 | | | 27.364 | | 27.372 | |
| 18 | 902.0 | 909.7 | 4.487 | 4.415 | | 34.457 | | | 27.303 | | 27.310 | |
| 19 | 902.6 | 910.3 | 4.486 | 4.414 | | 34.457 | | | 27.303 | | 27.310 | |
| 20 | 799.3 | 805.9 | 4.898 | 4.833 | | 34.406 | | | 27.216 | | 27.224 | |
| 21 | 602.5 | 607.2 | 5.847 | 5.794 | | 34.197 | | | 26.937 | | 26.944 | |

VENTS 1994 - LEG III
Station V94F28 Cast 28 29 SEP 1994
LAT: 22 29.93N LONG: 154 59.95W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.627 | | 165.9 | | |
| 2.700 | | 168.3 | | |
| 2.770 | | 166.3 | | |
| 2.797 | | 161.7 | | |
| 2.815 | | 159.4 | | |
| 2.836 | 2.836 | 156.4 | 156.3 | |
| 2.854 | | 154.0 | | 6.36 |
| 2.941 | | 142.7 | | |
| 2.985 | | 134.3 | | |
| 3.037 | 3.037 | 122.3 | 122.3 | 7.19 |
| 3.051 | 3.047 | 116.2 | 116.2 | 9.51 |
| 3.054 | 3.058 | 111.6 | 111.2 | 6.88 |
| 3.070 | 3.070 | 104.8 | 104.4 | 9.04 |
| 3.069 | | 96.5 | | |
| 2.873 | | 76.1 | | |

VENTS 1994 - LEG III
Station V94F29 Cast 29 30 SEP 1994
LAT: 20 59.95N LONG: 155 00.08W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3003.5 | 3043.9 | 1.605 | 1.382 | | 34.670 | | | 27.738 | | 27.754 | |
| 2 | 2701.1 | 2735.5 | 1.700 | 1.504 | | 34.660 | | | 27.723 | | 27.737 | |
| 3 | 2398.9 | 2427.8 | 1.841 | 1.670 | | 34.647 | | | 27.701 | | 27.714 | |
| 4 | 2199.0 | 2224.4 | 1.961 | 1.806 | | 34.637 | | | 27.684 | | 27.696 | |
| 5 | 2101.4 | 2125.2 | 2.045 | 1.897 | | 34.633 | | | 27.674 | | 27.686 | |
| 6 | 1998.8 | 2021.0 | 2.146 | 2.006 | | 34.626 | | | 27.660 | | 27.672 | |
| 7 | 1999.1 | 2021.2 | 2.146 | 2.006 | | 34.626 | | | 27.660 | | 27.672 | |
| 8 | 1900.1 | 1920.7 | 2.250 | 2.117 | | 34.619 | | | 27.646 | | 27.657 | |
| 9 | 1799.1 | 1818.2 | 2.350 | 2.224 | | 34.612 | | | 27.632 | | 27.643 | |
| 10 | 1596.1 | 1612.3 | 2.653 | 2.540 | | 34.590 | | | 27.589 | | 27.599 | |
| 11 | 1399.2 | 1412.7 | 3.112 | 3.010 | | 34.568 | | | 27.530 | | 27.539 | |
| 12 | 1202.1 | 1213.1 | 3.595 | 3.505 | | 34.537 | | | 27.459 | | 27.468 | |
| 13 | 1203.9 | 1214.9 | 3.591 | 3.501 | | 34.537 | | | 27.459 | | 27.468 | |
| 14 | 1099.5 | 1109.3 | 3.870 | 3.786 | | 34.523 | | | 27.420 | | 27.429 | |
| 15 | 1100.0 | 1109.8 | 3.871 | 3.787 | | 34.523 | | | 27.420 | | 27.429 | |
| 16 | 998.7 | 1007.4 | 4.256 | 4.178 | | 34.500 | | | 27.362 | | 27.370 | |
| 17 | 998.9 | 1007.5 | 4.260 | 4.182 | | 34.500 | | | 27.361 | | 27.369 | |
| 18 | 900.3 | 907.8 | 4.570 | 4.498 | | 34.475 | | | 27.308 | | 27.316 | |
| 19 | 900.2 | 907.8 | 4.575 | 4.503 | | 34.475 | | | 27.307 | | 27.315 | |
| 20 | 798.8 | 805.3 | 4.865 | 4.800 | | 34.440 | | | 27.247 | | 27.254 | |
| 21 | 599.5 | 604.1 | 5.490 | 5.439 | | 34.233 | | | 27.010 | | 27.016 | |

VENTS 1994 - LEG III
Station V94F29 Cast 29 30 SEP 1994
LAT: 20 59.95N LONG: 155 00.08W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.644 | | 165.5 | | |
| 2.687 | | 164.7 | | |
| 2.742 | | 162.5 | | |
| 2.774 | | 159.6 | | |
| 2.798 | | 157.8 | | |
| 2.829 | 2.824 | 155.7 | 155.9 | 7.38 |
| 2.854 | | 154.3 | | |
| 2.944 | | 145.9 | | |
| 3.041 | | 136.0 | | |
| 3.064 | 3.064 | 123.9 | 124.0 | 6.53 |
| 3.094 | | 117.9 | | |
| 3.111 | 3.112 | 109.7 | 109.8 | 8.31 |
| 3.087 | 3.086 | 102.7 | 102.7 | 7.73 |
| 3.024 | | 90.4 | | |

VENTS 1994 - LEG III
Station V94F30 Cast 30 30 SEP 1994
LAT: 20 24.10N LONG: 155 00.10W

| Niskin # | Depth (m) | Depth (db) | Insitu Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2501.0 | 2531.6 | 1.763 | 1.584 | | 34.653 | | | 27.712 | | 27.726 | |
| 2 | 2399.5 | 2428.3 | 1.803 | 1.633 | | 34.649 | | | 27.706 | | 27.719 | |
| 3 | 2302.9 | 2330.0 | 1.854 | 1.692 | | 34.644 | | | 27.698 | | 27.710 | |
| 4 | 2200.9 | 2226.2 | 1.948 | 1.793 | | 34.637 | | | 27.685 | | 27.697 | |
| 5 | 2100.0 | 2123.7 | 2.038 | 1.890 | | 34.631 | | | 27.673 | | 27.685 | |
| 6 | 1999.6 | 2021.6 | 2.136 | 1.996 | | 34.624 | | | 27.660 | | 27.671 | |
| 7 | 1999.1 | 2021.1 | 2.137 | 1.997 | | 34.624 | | | 27.660 | | 27.671 | |
| 8 | 1907.0 | 1927.6 | 2.226 | 2.092 | | 34.618 | | | 27.647 | | 27.658 | |
| 9 | 1801.8 | 1820.8 | 2.357 | 2.230 | | 34.610 | | | 27.630 | | 27.641 | |
| 10 | 1599.3 | 1615.3 | 2.672 | 2.558 | | 34.589 | | | 27.586 | | 27.596 | |
| 11 | 1401.0 | 1414.4 | 3.031 | 2.930 | | 34.568 | | | 27.537 | | 27.547 | |
| 12 | 1201.2 | 1212.1 | 3.590 | 3.500 | | 34.537 | | | 27.459 | | 27.468 | |
| 13 | 1201.7 | 1212.7 | 3.589 | 3.499 | | 34.537 | | | 27.460 | | 27.468 | |
| 14 | 1099.5 | 1109.2 | 3.822 | 3.739 | | 34.520 | | | 27.423 | | 27.431 | |
| 15 | 1100.0 | 1109.8 | 3.822 | 3.739 | | 34.520 | | | 27.423 | | 27.431 | |
| 16 | 1002.4 | 1011.0 | 4.063 | 3.986 | | 34.505 | | | 27.386 | | 27.394 | |
| 17 | 1002.7 | 1011.3 | 4.063 | 3.986 | | 34.505 | | | 27.386 | | 27.394 | |
| 18 | 901.0 | 908.6 | 4.299 | 4.229 | | 34.477 | | | 27.339 | | 27.346 | |
| 19 | 901.2 | 908.8 | 4.299 | 4.229 | | 34.477 | | | 27.339 | | 27.346 | |
| 20 | 801.6 | 808.1 | 4.600 | 4.536 | | 34.439 | | | 27.276 | | 27.283 | |
| 21 | 600.4 | 605.0 | 5.601 | 5.550 | | 34.239 | | | 27.001 | | 27.007 | |

VENTS 1994 - LEG III
Station V94F30 Cast 30 30 SEP 1994
LAT: 20 24.10N LONG: 155 00.10W

| PO4-UNFIL (umol/L) | PO4-FIL (umol/L) | SiO4-UNFIL (umol/L) | SiO4-FIL (umol/L) | TSM (ug/l) |
|---|---|---|---|---|
| 2.709 | | 162.9 | | |
| 2.724 | | 162.7 | | |
| 2.746 | | 162.0 | | |
| 2.772 | | 160.5 | | |
| 2.789 | | 158.0 | | |
| 2.821 | 2.824 | 155.9 | 156.0 | 5.97 |
| 2.842 | | 154.3 | | |
| 2.932 | | 144.5 | | |
| 2.979 | | 136.0 | | |
| 3.035 | 3.034 | 123.3 | 123.4 | 8.08 |
| 3.035 | 3.033 | 118.1 | 118.1 | 7.96 |
| 3.043 | 3.042 | 112.8 | 112.7 | 9.43 |
| 3.056 | 3.057 | 108.2 | 108.2 | 8.76 |
| 3.067 | | 102.1 | | |
| 2.905 | | 81.0 | | |



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