

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**

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**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**

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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.

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NE Pacific Spreading Centers

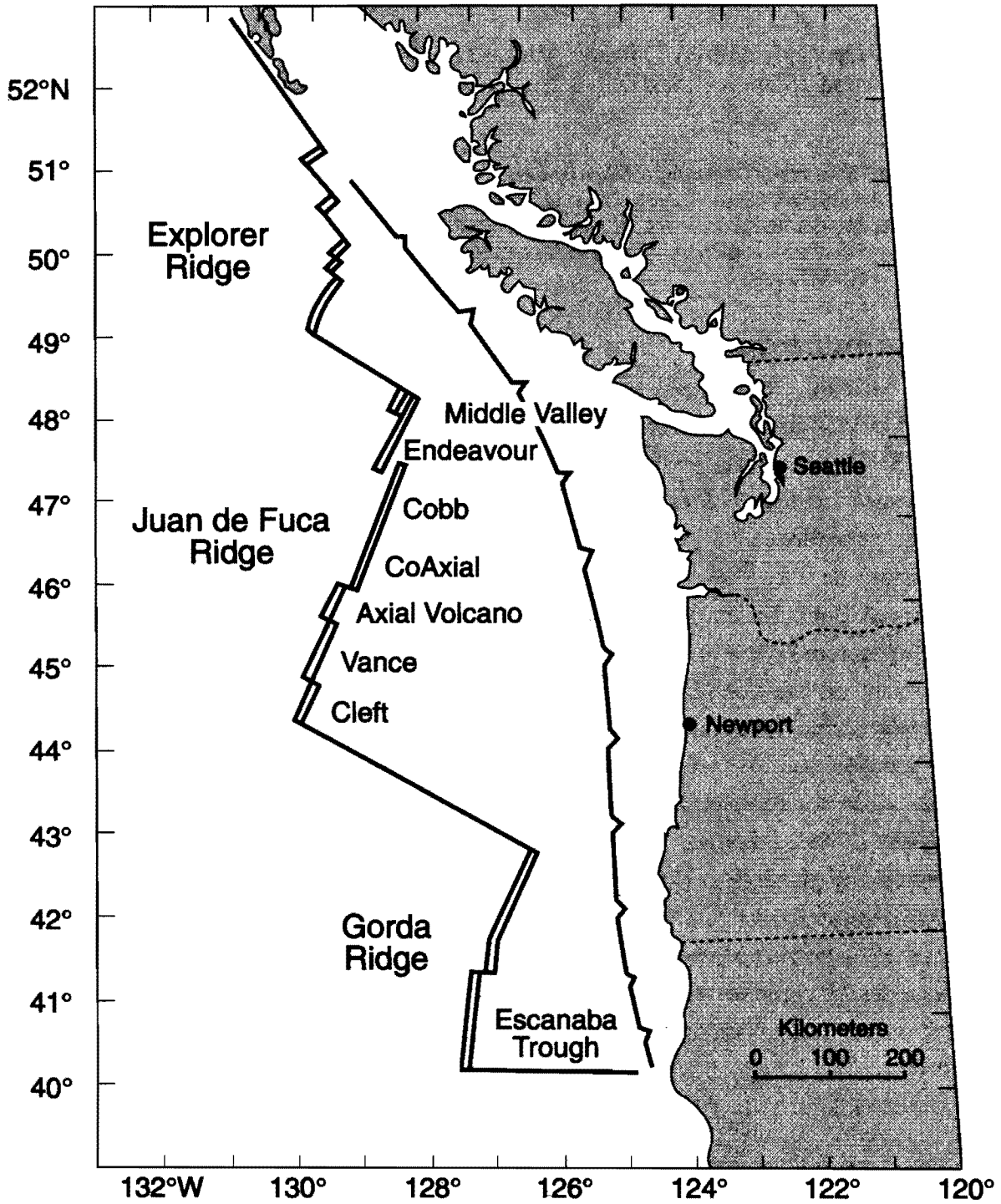


Fig. 1. Location map for the 1994 field season.

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 Autosol™. 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 Kroglund of the University of Washington, employing a Technicon Autoanalyzer and the techniques described by Whitlege (1981). In the analysis of silicic acid, the average precision of the replicate analyses was ± 0.5 $\mu\text{mol/l}$. 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 $\mu\text{mol/l}$ (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 $\pm 0.005\%$ 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 θ and σ_{θ} are the potential temperature and potential density, respectively, of the linear equation of the θ versus σ_{θ} 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 PO₄
Column 15: Filtered PO₄
Column 16: Unfiltered SiO₄
Column 17: Filtered SiO₄
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 |
| 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-t (CTD) | Sigma-Theta (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 | 27.660 | 27.660 | 27.672 | 27.672 | 27.672 | 27.673 |
| 2 | 1984.4 | 2010.5 | 1.955 | 1.818 | | 34.597 | 34.607 | 0.308 | 27.652 | 27.652 | 27.652 | 27.663 | 27.663 | 27.663 | 27.671 |
| 3 | 1498.5 | 1516.5 | 2.393 | 2.291 | | 34.520 | 34.604 | 0.308 | 27.555 | 27.555 | 27.555 | 27.564 | 27.564 | 27.564 | 27.631 |
| 4 | 1001.9 | 1012.7 | 3.242 | 3.171 | | 34.373 | 34.566 | 0.311 | 27.362 | 27.362 | 27.362 | 27.369 | 27.369 | 27.369 | 27.523 |
| 5 | 509.1 | 514.0 | 4.381 | 4.343 | | 34.078 | 34.612 | 0.311 | 27.013 | 27.013 | 27.013 | 27.017 | 27.017 | 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) | In situ 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) | Attenu. (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) | Salinity 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) | In situ 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) | Salinity (1/m) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (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 | 0.314 | 27.679 | 27.668 | 27.679 | 27.691 | 27.691 | 27.680 | |
| 4 | 1502.0 | 1519.8 | 2.350 | 2.248 | | 34.534 | 34.525 | 0.308 | 0.308 | 27.570 | 27.563 | 27.570 | 27.578 | 27.578 | 27.571 | |
| 7 | 1001.3 | 1012.0 | 3.275 | 3.204 | | 34.387 | 34.580 | 0.309 | 0.309 | 27.370 | 27.524 | 27.370 | 27.377 | 27.377 | 27.531 | |
| 10 | 515.1 | 519.9 | 4.588 | 4.549 | | 34.091 | 34.385 | 0.309 | 0.309 | 27.001 | 27.234 | 27.001 | 27.005 | 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-t (CTD) | Sigma-Theta (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 | | 27.698 | |
| 4 | 2001.2 | 2027.3 | 1.911 | 1.774 | | 34.605 | 34.461 | 0.309 | 27.662 | 27.547 | 27.673 | 27.557 | | 27.673 | |
| 7 | 1505.6 | 1523.5 | 2.419 | 2.316 | | 34.531 | 34.434 | 0.309 | 27.562 | 27.484 | 27.570 | 27.493 | | 27.570 | |
| 10 | 1022.2 | 1033.2 | 3.229 | 3.157 | | 34.393 | 34.384 | 0.311 | 27.379 | 27.372 | 27.386 | 27.379 | | 27.386 | |
| 13 | 502.0 | 506.8 | 4.613 | 4.574 | | 34.082 | 34.115 | 0.312 | 26.991 | 27.017 | 26.995 | 27.021 | | 26.995 | |

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

| Niskin # | Depth (m) | Depth (db) | In situ 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) | In situ 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (Bottle) | TSM (ug/l) |
|----------|-----------|------------|---------------|-----------------|------------|----------------|-------------------|-------------------|--------------|---------------|------------------|------------------|-------------------|----------------------|----------------------|------------|
| 1 | 2233.4 | 2263.9 | 1.891 | 1.734 | | 34.617 | 34.587 | 34.587 | 0.323 | 27.673 | 27.649 | 27.649 | 27.685 | 27.685 | 27.661 | |
| 2 | 1988.0 | 2013.9 | 1.904 | 1.768 | | 34.607 | 34.581 | 34.581 | 0.316 | 27.664 | 27.644 | 27.644 | 27.675 | 27.675 | 27.654 | |
| 3 | 1500.6 | 1518.4 | 2.404 | 2.302 | | 34.534 | 34.511 | 34.511 | 0.311 | 27.565 | 27.547 | 27.547 | 27.574 | 27.574 | 27.556 | |
| 4 | 989.8 | 1000.3 | 3.311 | 3.241 | | 34.377 | 34.341 | 34.341 | 0.312 | 27.359 | 27.330 | 27.330 | 27.366 | 27.366 | 27.337 | |
| 5 | 498.9 | 503.6 | 5.014 | 4.974 | | 34.141 | 34.139 | 34.139 | 0.314 | 26.993 | 26.991 | 26.991 | 26.997 | 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) | Attenu. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-Theta (Bottle) | Sigma-Theta (CTD) | TSM (ug/l) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|---------------|---------------|------------------|---------------|------------------|----------------------|-------------------|------------|
| 1 | 2267.5 | 2298.5 | 1.871 | 1.711 | | 34.620 | 34.586 | 0.315 | 27.677 | 27.650 | 27.677 | 27.650 | 27.690 | 27.677 | 27.662 |
| 2 | 2001.1 | 2027.3 | 1.900 | 1.763 | | 34.609 | 34.556 | 0.316 | 27.666 | 27.624 | 27.666 | 27.624 | 27.677 | 27.677 | 27.634 |
| 3 | 1502.8 | 1520.6* | 2.418 | 2.315 | | 34.533 | 34.519 | 0.310 | 27.563 | 27.552 | 27.563 | 27.552 | 27.572 | 27.572 | 27.561 |
| 4 | 1005.4 | 1016.1 | 3.226 | 3.155 | | 34.388 | 34.340 | 0.312 | 27.376 | 27.337 | 27.376 | 27.337 | 27.382 | 27.382 | 27.344 |
| 5 | 502.6 | 507.3 | 4.998 | 4.958 | | 34.149 | 34.146 | 0.313 | 27.001 | 26.999 | 27.001 | 26.999 | 27.006 | 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) | In situ 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | 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 | 27.708 | 27.705 | |
| 2 | 1998.1 | 2024.2 | 1.902 | 1.765 | | 34.603 | 34.571 | 0.307 | 27.661 | 27.636 | 27.672 | 27.672 | 27.646 | |
| 3 | 1495.7 | 1513.4 | 2.413 | 2.311 | | 34.529 | 34.490 | 0.309 | 27.561 | 27.529 | 27.569 | 27.569 | 27.538 | |
| 4 | 984.9 | 995.3 | 3.264 | 3.195 | | 34.385 | 34.370 | 0.311 | 27.370 | 27.358 | 27.376 | 27.376 | 27.364 | |
| 5 | 498.7 | 503.4 | 4.760 | 4.721 | | 34.097 | 34.095 | 0.312 | 26.987 | 26.985 | 26.991 | 26.991 | 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) | In situ 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 | 27.680 | 27.696 | 27.692 |
| 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 | 27.691 |
| 7 | 2196.1 | 2225.9 | 1.863 | 1.710 | | 34.622 | | 0.344 | 27.680 | | 27.691 | 27.690 |
| 6 | 2174.2 | 2203.5 | 1.862 | 1.711 | | 34.621 | | 0.342 | 27.679 | | 27.688 | 27.687 |
| 5 | 2149.6 | 2178.5 | 1.860 | 1.711 | | 34.618 | 34.617 | 0.339 | 27.677 | 27.676 | 27.688 | 27.685 |
| 4 | 2104.7 | 2132.8 | 1.861 | 1.716 | | 34.615 | | 0.337 | 27.674 | | 27.678 | 27.664 |
| 3 | 2051.4 | 2078.5 | 1.884 | 1.743 | | 34.608 | | 0.340 | 27.667 | | 27.654 | 27.650 |
| 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-DNF (umol/L) | SI04-DNF (umol/L) | NO3-DNF (umol/L) | TSM (ug/l) |
|------------------|-------------------|------------------|------------|
| 2.897659 | 189.0846 | 0 | 0 |
| 3.038118 | 188.9202 | 0 | 0 |
| 3.037057 | 189.1538 | 0 | 0 |
| 3.001837 | 186.9994 | 0 | 0 |
| 2.293176 | 175.4920 | 0 | 0 |
| 2.941155 | 187.6657 | 0 | 0 |
| 3.062094 | 184.5163 | 0 | 0 |
| 3.148873 | 181.3669 | 0 | 0 |
| 3.152692 | 181.6005 | 0 | 0 |
| 3.024751 | 180.4411 | 0 | 0 |

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

| Niskin # | Depth (m) | Depth (db) | In situ 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) | SI04-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) | In situ 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) | Attenu. (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 | 34.622 | 0.341 | 27.680 | 27.680 | 27.692 | 27.692 |
| 8 | 2227.1 | 2257.4 | 1.849 | 1.693 | | 34.622 | 34.622 | 0.341 | 27.681 | 27.681 | 27.693 | 27.693 |
| 7 | 2174.0 | 2203.3 | 1.853 | 1.702 | | 34.622 | 34.622 | 0.341 | 27.680 | 27.680 | 27.692 | 27.692 |
| 6 | 2150.3 | 2179.2 | 1.851 | 1.702 | | 34.622 | 34.622 | 0.341 | 27.681 | 27.681 | 27.692 | 27.692 |
| 5 | 2129.6 | 2158.1 | 1.849 | 1.702 | | 34.622 | 34.622 | 0.341 | 27.681 | 27.681 | 27.692 | 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 | 34.611 | 0.336 | 27.670 | 27.670 | 27.681 | 27.681 |
| 2 | 1943.6 | 1968.8 | 1.951 | 1.818 | | 34.595 | 34.595 | 0.336 | 27.651 | 27.651 | 27.661 | 27.661 |
| 1 | 1848.1 | 1871.5 | 2.030 | 1.904 | | 34.581 | 34.581 | 0.336 | 27.634 | 27.634 | 27.644 | 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 |
| 0.000000 | 186.7000 | 0 | 0 |
| 2.941923 | 182.2818 | 0 | 0 |
| 2.976795 | 186.8788 | 0 | 0 |
| 2.976667 | 185.1822 | 0 | 0 |
| 2.981538 | 186.7175 | 0 | 0 |
| 3.141410 | 186.0414 | 0 | 0 |
| 2.986282 | 184.6850 | 0 | 0 |
| 2.991154 | 180.2667 | 0 | 0 |

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

| Niskin # | Depth (m) | Depth (db) | In situ 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) |
|------------------|-------------------|------------------|------------|
| 0.00000 | 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 - All
 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-t (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 | | 34.615 | | 0.354 | 27.672 | | 27.683 | |
| 6 | 2074.8 | 2102.3 | 1.885 | 1.742 | | 34.615 | | 0.352 | 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 | | 27.681 | |
| 2 | 2027.9 | 2054.4 | 1.892 | 1.753 | | 34.613 | | 0.348 | 27.669 | | 27.680 | |
| 1 | 2001.0 | 2027.0 | 1.891 | 1.754 | | 34.612 | | 0.338 | 27.659 | | 27.670 | |
| 12 | 1950.6 | 1975.8 | 1.917 | 1.784 | | 34.602 | | 0.336 | 27.643 | | 27.653 | |
| 11 | 1871.8 | 1895.6 | 1.982 | 1.855 | | 34.588 | 34.616 | 0.336 | 27.643 | 27.665 | 27.675 | |

| PO4-UNF (umol/L) | SI04-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 | |
| 5.148974 | 178.4698 | 0 | 24.02 |
| 3.078846 | 188.3400 | 0 | 36.51 |
| 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. 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-UNE (umol/L) | SI04-UNE (umol/L) | NO3-UNE (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 |

VENTIS 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-T (CTD) | Sigma-T (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 | 34.617 | 0.340 | 27.674 | 27.674 | 27.686 | 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 | 34.615 | 0.341 | 27.672 | 27.672 | 27.684 | 27.684 |
| 6 | 2147.8 | 2176.6 | 1.888 | 1.738 | | 34.616 | 34.616 | 0.344 | 27.673 | 27.673 | 27.684 | 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 | 34.616 | 0.345 | 27.673 | 27.673 | 27.684 | 27.684 |
| 3 | 2151.4 | 2180.3 | 1.887 | 1.737 | | 34.617 | 34.617 | 0.347 | 27.674 | 27.674 | 27.685 | 27.685 |
| 2 | 2166.5 | 2195.6 | 1.891 | 1.740 | | 34.617 | 34.617 | 0.348 | 27.673 | 27.673 | 27.685 | 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 | 34.617 | 0.347 | 27.673 | 27.673 | 27.685 | 27.685 |
| 12 | 2137.1 | 2165.7 | 1.904 | 1.755 | | 34.616 | 34.616 | 0.352 | 27.672 | 27.672 | 27.683 | 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 | 34.615 | 0.351 | 27.671 | 27.683 | 27.683 | 27.679 |
| 5 | 2075.5 | 2103.0 | 1.895 | 1.752 | | 34.615 | 34.611 | 0.352 | 27.671 | 27.668 | 27.683 | 27.693 |
| 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 - All
 Station T94B05 Cast 14 01 JUL 1994
 LAT: 46 21.54N LONG: 129 40.89W

| Niskin # | Depth (m) | Depth (db) | In situ 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) | SI04-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 |
| 3.19320 | 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 | 34.520 | 0.343 | 27.554 | 27.554 | 27.562 | 27.562 |
| 8 | 1443.4 | 1460.5 | 2.417 | 2.319 | | 34.521 | 34.521 | 0.381 | 27.554 | 27.554 | 27.562 | 27.562 |
| 7 | 1120.3 | 1132.6 | 3.096 | 3.017 | | 34.415 | 34.415 | 0.337 | 27.409 | 27.409 | 27.417 | 27.417 |

| PO4-UNE (umol/L) | SI04-UNE (umol/L) | NO3-UNE (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) | In situ 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) | SI04-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) | In situ 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 | 27.657 | 27.669 |
| 9 | 2077.2 | 2104.9 | 1.951 | 1.807 | | 34.602 | | 0.339 | 27.657 | | 27.657 | 27.668 |
| 8 | 2054.9 | 2082.2 | 1.950 | 1.807 | | 34.602 | | 0.338 | 27.657 | | 27.657 | 27.668 |
| 7 | 2027.2 | 2054.1 | 1.946 | 1.806 | | 34.601 | | 0.338 | 27.656 | | 27.656 | 27.667 |
| 6 | 2000.4 | 2026.7 | 1.948 | 1.810 | | 34.600 | | 0.337 | 27.655 | | 27.655 | 27.666 |
| 5 | 1973.5 | 1999.4 | 1.954 | 1.818 | | 34.597 | | 0.337 | 27.652 | | 27.652 | 27.663 |
| 4 | 1947.8 | 1973.2 | 1.956 | 1.823 | | 34.596 | | 0.337 | 27.652 | | 27.652 | 27.662 |
| 3 | 1901.2 | 1925.8 | 1.971 | 1.841 | | 34.593 | | 0.336 | 27.648 | | 27.648 | 27.658 |
| 2 | 1852.5 | 1876.2 | 1.993 | 1.867 | | 34.589 | | 0.338 | 27.643 | | 27.643 | 27.653 |
| 1 | 1757.5 | 1779.6 | 2.078 | 1.959 | | 34.573 | | 0.337 | 27.623 | | 27.623 | 27.633 |
| 11 | 1748.8 | 1770.8 | 2.079 | 1.960 | | 34.573 | | 0.333 | 27.623 | | 27.623 | 27.633 |
| 12 | 2014.8 | 2041.4 | 1.948 | 1.809 | | 34.599 | | 0.337 | 27.655 | | 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) | In situ Temp. | Potential 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 |
| 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 | 0 | 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) | In situ 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) | In situ 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 | 0 |
| 1.283369 | 184.5286 | 0 | 0 |
| 2.762368 | 188.4956 | 0 | 0 |
| 2.797758 | 187.0966 | 0 | 0 |
| 2.385478 | 185.1928 | 0 | 0 |
| 2.440987 | 185.4704 | 0 | 0 |
| 1.837567 | 183.3961 | 0 | 0 |
| 2.154636 | 183.5049 | 0 | 0 |
| 2.034096 | 181.7641 | 0 | 0 |
| 2.481946 | 181.8723 | 0 | 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 | | 0.360 | 27.678 | | 27.690 | |
| 14 | 2140.3 | 2168.8 | 1.883 | 1.734 | 0.046789 | 34.619 | | 0.364 | 27.676 | 27.674 | 27.687 | 27.686 |
| 15 | 2194.2 | 2223.8 | 1.841 | 1.688 | 0.021299 | 34.620 | 34.6148 | 0.357 | 27.680 | 27.672 | 27.691 | 27.684 |
| 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) | In situ 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 | 2178.2 | 2207.6 | 1.865 | 1.713 | 0.018589 | 34.618 | 34.5994 | 0.366 | 27.676 | 27.661 | 27.688 | 27.673 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 10 | 2182.9 | 2212.4 | 1.875 | 1.723 | 0.020946 | 34.617 | | 0.363 | 27.675 | | 27.686 | |

TSM
 (ug/l)

 9.50
 9.81
 9.80
 37.79
 32.89
 26.51

 36.77
 15.69

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) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|--------------|---------------|------------------|-------------------|----------------------|
| 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 | |

TSM
 (ug/l)

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

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

TSM
 (ug/l)

 17.45
 23.50
 24.23
 10.46
 8.79

8.99
 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-t (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 | 34.6075 | 0.358 | 27.662 | 27.662 | 27.674 | 27.671 |
| 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/l)

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 | 27.682 | 27.695 |
| 2 | 2343.3 | 2376.2 | 1.835 | 1.669 | 0.017602 | 34.622 | 34.6185 | 0.356 | 27.682 | 27.679 | 27.682 | 27.694 |
| 3 | 2295.9 | 2327.9 | 1.841 | 1.679 | 0.023829 | 34.622 | 34.6174 | 0.357 | 27.681 | 27.678 | 27.681 | 27.690 |
| 4 | 2303.1 | 2335.2 | 1.843 | 1.680 | 0.028770 | 34.623 | 34.6187 | 0.356 | 27.682 | 27.678 | 27.682 | 27.691 |
| 5 | 2311.4 | 2343.7 | 1.839 | 1.676 | 0.009438 | 34.619 | 34.6175 | 0.356 | 27.679 | 27.678 | 27.679 | 27.690 |
| 6 | 2327.4 | 2360.0 | 1.834 | 1.669 | 0.013748 | 34.621 | 34.6163 | 0.357 | 27.681 | 27.677 | 27.681 | 27.690 |

TSM
 (ug/l)

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

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

9

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) | In situ 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 | 34.643 | 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) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|--------------|---------------|------------------|-------------------|----------------------|
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |

TSM
 (ug/l)

21.06
 16.00
 12.52
 9.22

23.18
 47.01
 20.00
 10.24

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. | Temp. | Anom | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta |
|----------|-----------|------------|--------------|-----------------|----------|-------|----------|------------|----------------|-------------------|--------------|---------------|------------------|---------------|----------------------|-------------|
| 1 | 2541 | 2578.2 | 1.773 | 1.590 | 0.036580 | 1.590 | 0.036580 | 34.644 | 34.644 | 34.6411 | 0.369 | 27.704 | 27.704 | 27.702 | 27.718 | 27.716 |
| 2 | 2621 | 2659.8 | 1.779 | 1.588 | 0.029489 | 1.588 | 0.029489 | 34.642 | 34.642 | 34.6400 | 0.364 | 27.702 | 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 | 34.645 | 0.373 | 27.705 | 27.705 | 27.720 | 27.720 |
| 2 | 2629.0 | 2668.0 | 1.770 | 1.579 | 0.029245 | 34.645 | 34.645 | 0.371 | 27.705 | 27.705 | 27.720 | 27.720 |
| 3 | 2607.8 | 2646.4 | 1.772 | 1.583 | 0.029252 | 34.644 | 34.644 | 0.368 | 27.704 | 27.704 | 27.718 | 27.718 |
| 4 | 2600.1 | 2638.5 | 1.775 | 1.586 | 0.031938 | 34.644 | 34.644 | 0.369 | 27.704 | 27.704 | 27.718 | 27.718 |
| 5 | 2589.9 | 2628.1 | 1.776 | 1.588 | 0.033354 | 34.644 | 34.644 | 0.371 | 27.704 | 27.704 | 27.717 | 27.717 |
| 6 | 2579.4 | 2617.4 | 1.775 | 1.588 | 0.030439 | 34.643 | 34.643 | 0.368 | 27.703 | 27.703 | 27.716 | 27.716 |
| 7 | 2559.2 | 2596.8 | 1.772 | 1.587 | 0.026738 | 34.642 | 34.642 | 0.362 | 27.703 | 27.703 | 27.715 | 27.715 |
| 8 | 2529.6 | 2566.5 | 1.768 | 1.586 | 0.019994 | 34.640 | 34.640 | 0.359 | 27.701 | 27.701 | 27.712 | 27.712 |
| 9 | 2478.7 | 2514.6 | 1.768 | 1.591 | 0.014444 | 34.637 | 34.637 | 0.357 | 27.699 | 27.699 | 28.612 | 28.612 |
| 10 | 2401.3 | 2435.7 | 1.770 | 1.595 | -5.237228 | 35.758 | 35.758 | 0.356 | 28.598 | 28.598 | 27.703 | 27.703 |
| 11 | 2300.1 | 2332.4 | 1.782 | 1.621 | 0.008025 | 34.628 | 34.628 | 0.357 | 27.691 | 27.691 | | |

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

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) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|--------------|---------------|------------------|-------------------|----------------------|
| 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 |

TSM
(ug/l)

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) | In situ 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 | 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 |

TSM
 (ug/l)

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) | In situ Temp. | Potential Temp. | Temp. Anom | Temp. (CTD) | Salinity (Bottle) | Salinity (CTD) | Atten. (l/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 | 27.694 | 27.698 | |
| 6 | 2102.1 | 2130.0 | 1.860 | 1.715 | | 34.607 | 34.6103 | 0.292 | 27.668 | 27.670 | 27.679 | 27.679 | 27.682 | |
| 8 | 1997.1 | 2023.1 | 1.901 | 1.764 | | 34.597 | 34.6029 | 0.289 | 27.657 | 27.661 | 27.667 | 27.667 | 27.672 | |
| 10 | 1801.7 | 1824.3 | 2.021 | 1.899 | | 34.574 | 34.5794 | 0.289 | 27.629 | 27.633 | 27.638 | 27.638 | 27.643 | |
| 14 | 1497.3 | 1515.0 | 2.402 | 2.300 | | 34.527 | 34.5323 | 0.291 | 27.560 | 27.564 | 27.569 | 27.569 | 27.573 | |
| 16 | 1000.0 | 1010.6 | 3.302 | 3.231 | | 34.374 | 34.3800 | 0.294 | 27.357 | 27.362 | 27.364 | 27.364 | 27.369 | |
| 18 | 497.5 | 502.2 | 4.442 | 4.405 | | 34.042 | 34.0484 | 0.291 | 26.978 | 26.983 | 26.982 | 26.982 | 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-t (CTD) | Sigma-t (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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (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 | 27.694 | 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 | 27.677 | 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 | 27.669 | 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 | 27.642 | 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 | 27.570 | 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 | 27.382 | 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 | 26.986 | 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) | In situ 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | 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 | 27.705 | 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 | 27.691 | 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 | 27.678 | 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 | 27.657 | 27.657 | 27.668 | 27.668 | |
| 14 | 1499.6 | 1517.6 | 2.514 | 2.410 | | 34.526 | 34.5249 | 0.298 | 27.550 | 27.550 | 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 | 27.357 | 27.357 | 27.364 | 27.364 | |
| 18 | 499.1 | 503.8 | 4.633 | 4.595 | | 34.058 | 34.0539 | 0.295 | 26.970 | 26.970 | 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-Theta (Bottle) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|--------------|---------------|------------------|-------------------|----------------------|
| 4 | 2675.4 | 2715.1 | 1.764 | 1.569 | | 34.643 | 34.6435 | 0.305 | 27.704 | 27.704 | 27.719 | 27.719 |
| 6 | 2400.6 | 2434.6 | 1.785 | 1.615 | | 34.626 | 34.6221 | 0.293 | 27.689 | 27.686 | 27.702 | 27.702 |
| 8 | 2197.4 | 2227.5 | 1.837 | 1.684 | | 34.612 | 34.6127 | 0.293 | 27.674 | 27.674 | 27.685 | 27.685 |
| 10 | 1999.0 | 2025.4 | 1.926 | 1.789 | | 34.593 | 34.5934 | 0.293 | 27.651 | 27.652 | 27.662 | 27.662 |
| 14 | 1498.1 | 1516.0 | 2.440 | 2.337 | | 34.511 | 34.5111 | 0.297 | 27.544 | 27.544 | 27.553 | 27.553 |
| 16 | 998.6 | 1009.4 | 3.466 | 3.394 | | 34.377 | 34.3763 | 0.300 | 27.344 | 27.344 | 27.351 | 27.351 |
| 18 | 498.8 | 503.6 | 5.012 | 4.972 | | 34.075 | 34.0763 | 0.297 | 26.941 | 26.942 | 26.945 | 26.945 |

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

| Niskin # | Depth (m) | Depth (db) | In situ 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 | 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 | 27.708 |
| 8 | 2196.6 | 2226.6 | 1.805 | 1.652 | | 34.620 | 34.6208 | 0.295 | 27.682 | 27.683 | 27.694 | 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 | 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 | 27.561 |
| 16 | 1003.4 | 1014.2 | 3.323 | 3.252 | | 34.379 | 34.3817 | 0.298 | 27.359 | 27.362 | 27.366 | 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 | 26.980 | 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) | In situ 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 | 0.295 | 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 |
| 2.866 | 182.700 | 182.7 | 2.866 | 16.23 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) | SI04-UNFIL (umol/L) | SI04-FIL (umol/L) | TSM (ug/l) |
|--------------------|------------------|---------------------|-------------------|------------|
| 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 | | |
| | | | | 34.54 |

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 | 27.683 |
| 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 | 0.294 | 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) | In situ 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 | 27.717 |
| 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 | 27.689 | |
| 10 | 2198.7 | 2228.4 | 1.835 | 1.682 | | 34.616 | | 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 | 27.745 | 27.765 | 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 | 27.678 |
| 12 | 2100.8 | 2128.7 | 1.884 | 1.739 | | 34.609 | 34.6083 | 0.295 | 27.668 | 27.667 | 27.678 | 27.678 |
| 13 | 1999.3 | 2025.4 | 1.930 | 1.793 | | 34.599 | | 0.294 | 27.656 | 27.667 | 27.667 | 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 | 27.354 | 27.361 | 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

| Miskin # | Depth (m) | Depth (db) | In situ 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 | 34.675 | 0.294 | 27.746 | 27.748 | 27.768 | 27.768 |
| 2 | 3499.8 | 3558.0 | 1.547 | 1.274 | | 34.669 | 34.669 | 0.292 | 27.741 | 27.748 | 27.761 | 27.761 |
| 3 | 3199.5 | 3250.4 | 1.560 | 1.318 | | 34.662 | 34.662 | 0.292 | 27.735 | 27.738 | 27.752 | 27.752 |
| 4 | 2999.2 | 3045.4 | 1.592 | 1.369 | | 34.656 | 34.656 | 0.293 | 27.727 | 27.732 | 27.744 | 27.744 |
| 5 | 2800.6 | 2842.5 | 1.630 | 1.425 | | 34.649 | 34.649 | 0.293 | 27.719 | 27.725 | 27.734 | 27.734 |
| 6 | 2598.6 | 2636.2 | 1.713 | 1.526 | | 34.638 | 34.638 | 0.293 | 27.704 | 27.711 | 27.718 | 27.718 |
| 7 | 2400.2 | 2433.7 | 1.784 | 1.614 | | 34.626 | 34.626 | 0.294 | 27.689 | 27.698 | 27.702 | 27.702 |
| 8 | 2399.2 | 2432.7 | 1.784 | 1.614 | | 34.626 | 34.626 | 0.294 | 27.689 | 27.698 | 27.702 | 27.702 |
| 9 | 2200.2 | 2230.0 | 1.851 | 1.697 | | 34.614 | 34.614 | 0.296 | 27.674 | 27.685 | 27.686 | 27.686 |
| 10 | 2202.3 | 2232.1 | 1.851 | 1.697 | | 34.614 | 34.614 | 0.295 | 27.674 | 27.687 | 27.686 | 27.686 |
| 11 | 2101.4 | 2129.3 | 1.890 | 1.744 | | 34.607 | 34.607 | 0.295 | 27.665 | 27.677 | 27.677 | 27.677 |
| 12 | 2103.1 | 2131.1 | 1.890 | 1.744 | | 34.607 | 34.607 | 0.295 | 27.665 | 27.673 | 27.677 | 27.677 |
| 13 | 1999.6 | 2025.6 | 1.938 | 1.800 | | 34.598 | 34.598 | 0.296 | 27.655 | 27.653 | 27.665 | 27.665 |
| 14 | 1999.9 | 2025.9 | 1.938 | 1.800 | | 34.598 | 34.598 | 0.296 | 27.655 | 27.655 | 27.665 | 27.665 |
| 15 | 1899.3 | 1923.6 | 2.007 | 1.877 | | 34.585 | 34.585 | 0.296 | 27.639 | 27.640 | 27.649 | 27.649 |
| 16 | 1898.4 | 1922.6 | 2.009 | 1.879 | | 34.585 | 34.585 | 0.296 | 27.639 | 27.640 | 27.649 | 27.649 |
| 17 | 1799.2 | 1821.7 | 2.084 | 1.961 | | 34.572 | 34.572 | 0.296 | 27.622 | 27.624 | 27.632 | 27.632 |
| 18 | 1598.5 | 1617.7 | 2.290 | 2.181 | | 34.501 | 34.501 | 0.297 | 27.582 | 27.585 | 27.591 | 27.591 |
| 19 | 1399.0 | 1415.2 | 2.597 | 2.501 | | 34.501 | 34.501 | 0.298 | 27.523 | 27.526 | 27.531 | 27.531 |
| 20 | 1199.6 | 1212.9 | 2.952 | 2.868 | | 34.443 | 34.443 | 0.300 | 27.445 | 27.490 | 27.452 | 27.452 |
| 21 | 1001.8 | 1012.4 | 3.425 | 3.353 | | 34.378 | 34.378 | 0.301 | 27.349 | 27.352 | 27.356 | 27.356 |

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) | Salinity (1/m) | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 0.295 | 27.692 | 27.695 | 27.705 | 27.708 |
| 8 | 2399.5 | 2433.0 | 1.775 | 1.605 | | 34.629 | 34.6330 | 0.295 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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) | Salinity (Bottle) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|----------|-----------|------------|--------------|-----------------|-------------|----------------|-------------------|-------------------|--------------|---------------|------------------|------------------|-------------------|----------------------|
| 1 | 4001.5 | 4072.5 | 1.532 | 1.204 | | 34.680 | 34.6809 | 34.6809 | 0.295 | 27.751 | 27.752 | 27.774 | 27.774 | 27.775 |
| 2 | 3698.8 | 3761.7 | 1.522 | 1.228 | | 34.676 | 34.6760 | 34.6760 | 0.292 | 27.749 | 27.749 | 27.770 | 27.770 | 27.770 |
| 3 | 3299.6 | 3352.7 | 1.534 | 1.282 | | 34.668 | 34.6679 | 34.6679 | 0.293 | 27.741 | 27.741 | 27.759 | 27.759 | 27.759 |
| 4 | 2999.6 | 3045.6 | 1.578 | 1.355 | | 34.658 | 34.6589 | 34.6589 | 0.294 | 27.730 | 27.731 | 27.746 | 27.746 | 27.747 |
| 5 | 2800.2 | 2841.8 | 1.624 | 1.420 | | 34.651 | 34.6511 | 34.6511 | 0.294 | 27.721 | 27.721 | 27.736 | 27.736 | 27.736 |
| 6 | 2599.5 | 2636.9 | 1.698 | 1.511 | | 34.640 | 34.6408 | 34.6408 | 0.294 | 27.707 | 27.707 | 27.720 | 27.720 | 27.721 |
| 7 | 2400.0 | 2433.4 | 1.770 | 1.600 | | 34.630 | 34.6307 | 34.6307 | 0.295 | 27.693 | 27.694 | 27.706 | 27.706 | 27.706 |
| 8 | 2399.9 | 2433.3 | 1.772 | 1.602 | | 34.629 | 34.6299 | 34.6299 | 0.295 | 27.692 | 27.693 | 27.705 | 27.705 | 27.705 |
| 9 | 2201.7 | 2231.3 | 1.847 | 1.693 | | 34.616 | 34.6170 | 34.6170 | 0.296 | 27.676 | 27.677 | 27.688 | 27.688 | 27.689 |
| 10 | 2201.4 | 2230.9 | 1.848 | 1.694 | | 34.616 | 34.6175 | 34.6175 | 0.297 | 27.676 | 27.677 | 27.688 | 27.688 | 27.689 |
| 11 | 2100.3 | 2128.0 | 1.896 | 1.750 | | 34.608 | 34.6086 | 34.6086 | 0.296 | 27.666 | 27.666 | 27.677 | 27.677 | 27.677 |
| 12 | 2100.4 | 2128.1 | 1.897 | 1.751 | | 34.608 | 34.6080 | 34.6080 | 0.297 | 27.666 | 27.666 | 27.677 | 27.677 | 27.677 |
| 13 | 1999.1 | 2025.0 | 1.941 | 1.803 | | 34.598 | 34.5983 | 34.5983 | 0.298 | 27.654 | 27.655 | 27.665 | 27.665 | 27.665 |
| 14 | 1999.0 | 2024.8 | 1.941 | 1.803 | | 34.598 | 34.5982 | 34.5982 | 0.297 | 27.654 | 27.654 | 27.665 | 27.665 | 27.665 |
| 15 | 1900.2 | 1924.3 | 2.005 | 1.875 | | 34.588 | 34.5884 | 34.5884 | 0.298 | 27.641 | 27.642 | 27.651 | 27.651 | 27.652 |
| 16 | 1900.5 | 1924.7 | 2.005 | 1.875 | | 34.588 | 34.5874 | 34.5874 | 0.298 | 27.641 | 27.641 | 27.651 | 27.651 | 27.651 |
| 17 | 1801.6 | 1824.1 | 2.095 | 1.972 | | 34.573 | 34.5732 | 34.5732 | 0.298 | 27.622 | 27.622 | 27.632 | 27.632 | 27.632 |
| 18 | 1604.4 | 1623.6 | 2.331 | 2.221 | | 34.538 | 34.5380 | 34.5380 | 0.300 | 27.575 | 27.575 | 27.584 | 27.584 | 27.584 |
| 19 | 1399.9 | 1416.0 | 2.659 | 2.562 | | 34.497 | 34.4977 | 34.4977 | 0.300 | 27.514 | 27.515 | 27.522 | 27.522 | 27.523 |
| 20 | 1201.4 | 1214.6 | 2.997 | 2.913 | | 34.442 | 34.4424 | 34.4424 | 0.301 | 27.440 | 27.440 | 27.448 | 27.448 | 27.448 |
| 21 | 999.8 | 1010.3 | 3.342 | 3.271 | | 34.362 | 34.3626 | 34.3626 | 0.302 | 27.344 | 27.344 | 27.351 | 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Attenu. (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 | 27.665 |
| 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 | 27.593 | 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 V94Fil 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 | | 178.5 | | |
| 2.975 | 2.944 | 176.6 | 178.8 | 11.59 |
| 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

| Nisk in # | Depth (m) | Depth (db) | In situ 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 | | |

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

| Niskin # | Depth (m) | Depth (db) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Salinity (1/m) | Atten. (CTD) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (CTD) |
|----------|-----------|------------|---------------|-----------------|------------|----------------|-------------------|----------------|--------------|---------------|------------------|---------------|----------------------|-------------------|
| 1 | 4003.2 | 4073.3 | 1.520 | 1.192 | | 34.682 | 34.6793 | 0.294 | | 27.754 | 27.751 | 27.777 | 27.775 | 27.777 |
| 2 | 3696.6 | 3758.7 | 1.499 | 1.206 | | 34.680 | 34.6771 | 0.294 | | 27.753 | 27.751 | 27.774 | 27.772 | 27.774 |
| 3 | 3300.7 | 3353.1 | 1.507 | 1.256 | | 34.672 | 34.6696 | 0.295 | | 27.746 | 27.745 | 27.764 | 27.762 | 27.764 |
| 4 | 2999.8 | 3045.3 | 1.548 | 1.326 | | 34.663 | 34.6598 | 0.295 | | 27.736 | 27.734 | 27.752 | 27.750 | 27.752 |
| 5 | 2800.1 | 2841.2 | 1.598 | 1.394 | | 34.655 | 34.6601 | 0.295 | | 27.726 | 27.730 | 27.741 | 27.745 | 27.741 |
| 6 | 2599.8 | 2636.7 | 1.657 | 1.471 | | 34.646 | 34.6453 | 0.296 | | 27.715 | 27.714 | 27.728 | 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 | 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 | 27.709 |
| 9 | 2200.6 | 2229.7 | 1.842 | 1.689 | | 34.618 | 34.6190 | 0.298 | | 27.678 | 27.679 | 27.690 | 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 | 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 | 27.678 |
| 12 | 2096.6 | 2123.8 | 1.897 | 1.752 | | 34.609 | 34.6074 | 0.298 | | 27.667 | 27.665 | 27.678 | 27.676 | 27.678 |
| 13 | 2001.4 | 2026.9 | 1.950 | 1.812 | | 34.598 | 34.5972 | 0.299 | | 27.654 | 27.653 | 27.664 | 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 | 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 | 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 | 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 | 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 | 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 | 27.509 |
| 20 | 1200.4 | 1213.4 | 2.957 | 2.873 | | 34.415 | 34.4166 | 0.303 | | 27.422 | 27.423 | 27.430 | 27.431 | 27.430 |
| 21 | 1000.6 | 1010.9 | 3.258 | 3.188 | | 34.323 | 34.3239 | 0.304 | | 27.321 | 27.322 | 27.327 | 27.328 | 27.327 |

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 | 27.679 | 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 | 27.503 | 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) | In situ 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 | 27.650 | 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 ($\mu\text{mol/L}$) | PO4-FIL ($\mu\text{mol/L}$) | SiO4-UNFIL ($\mu\text{mol/L}$) | SiO4-FIL ($\mu\text{mol/L}$) | TSM ($\mu\text{g/l}$) |
|------------------------------------|----------------------------------|-------------------------------------|-----------------------------------|----------------------------|
| 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Salinity (l/m) | Atten. (l/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (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-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (Bottle) |
|----------|-----------|------------|--------------|-----------------|------------|----------------|-------------------|--------------|---------------|------------------|---------------|----------------------|----------------------|
| 1 | 4005.7 | 4074.4 | 1.491 | 1.164 | | 34.683 | 34.6829 | 0.295 | 27.756 | 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 | 27.753 | 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 | 27.619 | | 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) | In situ 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 | 34.6200 | 0.301 | 27.679 | 27.679 | 27.690 | 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 | 27.417 | 27.425 | 27.425 |
| 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Salinity (1/m) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (CTD) |
|----------|-----------|------------|---------------|-----------------|------------|----------------|-------------------|----------------|--------------|---------------|------------------|---------------|----------------------|-------------------|
| 1 | 4003.7 | 4071.6 | 1.481 | 1.155 | | 34.684 | 34.6832 | 0.296 | | 27.758 | 27.757 | 27.781 | 27.780 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | | 173.9 | | |
| 2.984 | 2.947 | 171.6 | 174.0 | 5.15 |
| 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Attenu. (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) | SI04-UNFIL (umol/L) | SI04-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) | Attenu. (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) | 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 | 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 | 34.6877 | 0.294 | 27.761 | 27.761 | 27.788 | 27.788 |
| 3 | 4001.4 | 4068.2 | 1.478 | 1.152 | | 34.685 | | | 0.295 | 27.759 | 27.759 | 27.782 | 27.782 |
| 4 | 3497.0 | 3551.2 | 1.484 | 1.213 | | 34.679 | 34.6839 | 34.6839 | 0.295 | 27.754 | 27.754 | 27.773 | 27.773 |
| 5 | 3001.9 | 3044.9 | 1.555 | 1.333 | | 34.665 | 34.6672 | 34.6672 | 0.297 | 27.737 | 27.737 | 27.753 | 27.753 |
| 6 | 2601.9 | 2636.8 | 1.675 | 1.488 | | 34.651 | 34.6503 | 34.6503 | 0.298 | 27.717 | 27.717 | 27.731 | 27.731 |
| 7 | 2398.5 | 2429.4 | 1.757 | 1.588 | | 34.641 | 34.6425 | 34.6425 | 0.299 | 27.703 | 27.703 | 27.716 | 27.716 |
| 8 | 2397.3 | 2428.2 | 1.757 | 1.588 | | 34.641 | 34.6412 | 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 | 34.6293 | 0.300 | 27.684 | 27.684 | 27.695 | 27.695 |
| 10 | 2202.7 | 2230.0 | 1.872 | 1.718 | | 34.628 | 34.6278 | 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 | 34.6197 | 0.300 | 27.671 | 27.671 | 27.682 | 27.682 |
| 12 | 2098.3 | 2123.8 | 1.945 | 1.799 | | 34.619 | 34.6192 | 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 | 27.659 | 27.670 | 27.670 |
| 14 | 2000.3 | 2024.2 | 2.018 | 1.879 | | 34.611 | 34.6106 | 34.6106 | 0.301 | 27.659 | 27.659 | 27.670 | 27.670 |
| 15 | 1900.8 | 1923.0 | 2.103 | 1.972 | | 34.600 | 34.6008 | 34.6008 | 0.301 | 27.643 | 27.643 | 27.653 | 27.653 |
| 16 | 1900.7 | 1922.9 | 2.104 | 1.973 | | 34.600 | 34.6100 | 34.6100 | 0.302 | 27.643 | 27.643 | 27.653 | 27.653 |
| 17 | 1801.1 | 1821.8 | 2.210 | 2.085 | | 34.588 | 34.5883 | 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 | 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 | 34.5159 | 0.303 | 27.511 | 27.511 | 27.520 | 27.520 |
| 20 | 1200.8 | 1212.8 | 3.193 | 3.107 | | 34.448 | 34.4509 | 34.4509 | 0.305 | 27.427 | 27.427 | 27.435 | 27.435 |
| 21 | 1002.9 | 1012.4 | 3.588 | 3.515 | | 34.336 | 34.3374 | 34.3374 | 0.305 | 27.300 | 27.300 | 27.307 | 27.307 |

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) | In situ 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

| Miskin # | Depth (m) | Depth (db) | In situ 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 | 27.754 | 27.464 | 27.795 | 27.504 | |
| 2 | 5003.0 | 5096.9 | 1.520 | 1.073 | 34.692 | 34.692 | 27.762 | 27.762 | 27.793 | 27.793 | 27.793 | |
| 3 | 3961.1 | 4025.8 | 1.487 | 1.166 | 34.684 | 34.6699 | 27.758 | 27.758 | 27.746 | 27.780 | 27.769 | |
| 4 | 3578.4 | 3633.6 | 1.502 | 1.222 | 34.679 | 34.6695 | 27.752 | 27.752 | 27.745 | 27.772 | 27.765 | |
| 5 | 2999.4 | 3041.6 | 1.562 | 1.340 | 34.667 | 34.667 | 27.738 | 27.738 | 27.754 | 27.754 | 27.754 | |
| 6 | 2600.1 | 2634.2 | 1.672 | 1.486 | 34.653 | 34.6558 | 27.719 | 27.719 | 27.721 | 27.733 | 27.735 | |
| 7 | 2400.3 | 2430.6 | 1.753 | 1.584 | 34.643 | 34.6442 | 27.705 | 27.705 | 27.706 | 27.718 | 27.719 | |
| 8 | 2400.5 | 2430.8 | 1.753 | 1.583 | 34.643 | 34.6291 | 27.705 | 27.705 | 27.694 | 27.718 | 27.706 | |
| 9 | 2200.8 | 2227.5 | 1.867 | 1.713 | 34.630 | 34.6206 | 27.686 | 27.686 | 27.678 | 27.697 | 27.690 | |
| 10 | 2200.8 | 2227.5 | 1.867 | 1.713 | 34.630 | 34.6198 | 27.686 | 27.686 | 27.678 | 27.697 | 27.689 | |
| 11 | 2099.1 | 2124.1 | 1.934 | 1.788 | 34.622 | 34.6070 | 27.674 | 27.674 | 27.662 | 27.685 | 27.673 | |
| 12 | 2099.0 | 2124.0 | 1.934 | 1.788 | 34.622 | 34.6062 | 27.674 | 27.674 | 27.661 | 27.685 | 27.673 | |
| 13 | 2002.1 | 2025.4 | 2.008 | 1.869 | 34.615 | 34.5999 | 27.663 | 27.663 | 27.651 | 27.673 | 27.661 | |
| 14 | 2002.4 | 2025.7 | 2.008 | 1.869 | 34.615 | 34.5980 | 27.663 | 27.663 | 27.649 | 27.673 | 27.660 | |
| 15 | 1898.8 | 1920.5 | 2.121 | 1.989 | 34.604 | 34.5922 | 27.645 | 27.645 | 27.635 | 27.655 | 27.646 | |
| 16 | 1898.9 | 1920.5 | 2.124 | 1.992 | 34.604 | 34.5922 | 27.645 | 27.645 | 27.636 | 27.655 | 27.646 | |
| 17 | 1800.5 | 1820.6 | 2.236 | 2.111 | 34.592 | 34.5824 | 27.626 | 27.626 | 27.618 | 27.636 | 27.628 | |
| 18 | 1601.8 | 1619.0 | 2.471 | 2.360 | 34.569 | 34.5808 | 27.588 | 27.588 | 27.597 | 27.597 | 27.607 | |
| 19 | 1001.2 | 1010.4 | 3.648 | 3.574 | 34.354 | 34.5700 | 27.308 | 27.308 | 27.480 | 27.315 | 27.487 | |
| 20 | 1001.0 | 1010.2 | 3.649 | 3.575 | 34.354 | 34.5466 | 27.308 | 27.308 | 27.461 | 27.315 | 27.469 | |
| 21 | 1001.4 | 1010.7 | 3.648 | 3.574 | 34.354 | 34.3327 | 27.308 | 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 | | 7.60 |
| 2.741 | | 170.8 | | |
| 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) | In situ Temp. | Potential Temp. | Temp. Anom | Salinity (CTD) | Salinity (Bottle) | Attenu. (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. | Potential Anom | Temp. (CTD) | Salinity (Bottle) | Salinity (CTD) | Salinity (1/m) | Atten. (1/m) | Sigma-t (CTD) | Sigma-t (Bottle) | Sigma-t (CTD) | Sigma-Theta (Bottle) | Sigma-Theta (CTD) | Sigma-Theta (Bottle) |
|----------|-----------|------------|--------------|-----------------|----------------|-------------|-------------------|----------------|----------------|--------------|---------------|------------------|---------------|----------------------|-------------------|----------------------|
| 1 | 2998.7 | 3040.0 | 1.557 | 1.335 | 1.335 | 34.668 | 34.6483 | | | | 27.740 | 27.724 | 27.756 | 27.740 | 27.756 | 27.740 |
| 2 | 2701.1 | 2736.4 | 1.637 | 1.442 | 1.442 | 34.658 | 34.6573 | | | | 27.726 | 27.725 | 27.740 | 27.740 | 27.740 | 27.739 |
| 3 | 2401.3 | 2431.0 | 1.788 | 1.618 | 1.618 | 34.643 | 34.6409 | | | | 27.702 | 27.701 | 27.715 | 27.715 | 27.715 | 27.713 |
| 4 | 2202.4 | 2228.6 | 1.935 | 1.780 | 1.780 | 34.630 | 34.6283 | | | | 27.680 | 27.679 | 27.692 | 27.692 | 27.692 | 27.691 |
| 5 | 2102.6 | 2127.1 | 2.024 | 1.876 | 1.876 | 34.622 | 34.6208 | | | | 27.667 | 27.666 | 27.679 | 27.679 | 27.679 | 27.678 |
| 6 | 2001.0 | 2023.8 | 2.134 | 1.994 | 1.994 | 34.613 | 34.6117 | | | | 27.651 | 27.650 | 27.662 | 27.662 | 27.662 | 27.661 |
| 7 | 2001.3 | 2024.1 | 2.135 | 1.995 | 1.995 | 34.613 | 34.6110 | | | | 27.651 | 27.649 | 27.662 | 27.662 | 27.662 | 27.660 |
| 8 | 1899.8 | 1921.0 | 2.260 | 2.126 | 2.126 | 34.603 | 34.6008 | | | | 27.633 | 27.631 | 27.644 | 27.644 | 27.644 | 27.642 |
| 9 | 1800.2 | 1819.9 | 2.398 | 2.271 | 2.271 | 34.593 | 34.5902 | | | | 27.613 | 27.611 | 27.624 | 27.624 | 27.624 | 27.622 |
| 10 | 1599.8 | 1616.5 | 2.730 | 2.616 | 2.616 | 34.568 | 34.5657 | | | | 27.565 | 27.563 | 27.575 | 27.575 | 27.575 | 27.573 |
| 11 | 1400.2 | 1414.1 | 3.037 | 2.936 | 2.936 | 34.549 | 34.5463 | | | | 27.522 | 27.520 | 27.531 | 27.531 | 27.531 | 27.529 |
| 12 | 1196.2 | 1207.5 | 3.413 | 3.325 | 3.325 | 34.513 | 34.5121 | | | | 27.458 | 27.457 | 27.466 | 27.466 | 27.466 | 27.465 |
| 13 | 1191.8 | 1203.1 | 3.417 | 3.330 | 3.330 | 34.509 | 34.5075 | | | | 27.454 | 27.453 | 27.462 | 27.462 | 27.462 | 27.461 |
| 14 | 1105.4 | 1115.6 | 3.623 | 3.541 | 3.541 | 34.481 | 34.4777 | | | | 27.412 | 27.409 | 27.420 | 27.420 | 27.420 | 27.417 |
| 15 | 1106.5 | 1116.7 | 3.622 | 3.540 | 3.540 | 34.481 | 34.4777 | | | | 27.412 | 27.409 | 27.420 | 27.420 | 27.420 | 27.417 |
| 16 | 1000.4 | 1009.4 | 3.868 | 3.793 | 3.793 | 34.444 | 34.4405 | | | | 27.358 | 27.355 | 27.365 | 27.365 | 27.365 | 27.362 |
| 17 | 1001.1 | 1010.1 | 3.868 | 3.793 | 3.793 | 34.444 | 34.4404 | | | | 27.358 | 27.355 | 27.365 | 27.365 | 27.365 | 27.362 |
| 18 | 897.5 | 905.4 | 4.158 | 4.089 | 4.089 | 34.379 | 34.5742 | | | | 27.276 | 27.431 | 27.283 | 27.283 | 27.283 | 27.438 |
| 19 | 896.9 | 904.7 | 4.157 | 4.088 | 4.088 | 34.376 | 34.3729 | | | | 27.274 | 27.271 | 27.281 | 27.281 | 27.281 | 27.278 |
| 20 | 805.0 | 811.9 | 4.321 | 4.259 | 4.259 | 34.267 | 34.2621 | | | | 27.169 | 27.166 | 27.176 | 27.176 | 27.176 | 27.172 |
| 21 | 808.9 | 815.7 | 4.313 | 4.251 | 4.251 | 34.270 | 34.2661 | | | | 27.173 | 27.170 | 27.179 | 27.179 | 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) | SI04-UNFIL (umol/L) | SI04-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 | 1901.9 | 1922.7 | 2.264 | 2.161 | | 34.611 | | | 27.639 | | | 27.650 |
| 8 | 1800.4 | 1819.7 | 2.408 | 2.281 | | 34.601 | | | 27.619 | | | 27.629 |
| 9 | 1600.9 | 1617.2 | 2.757 | 2.642 | | 34.580 | | | 27.572 | | | 27.582 |
| 10 | 1401.3 | 1414.9 | 3.123 | 3.021 | | 34.556 | | | 27.519 | | | 27.529 |
| 11 | 1202.0 | 1213.1 | 3.637 | 3.547 | | 34.529 | | | 27.448 | | | 27.457 |
| 12 | 1201.8 | 1212.9 | 3.638 | 3.548 | | 34.529 | | | 27.448 | | | 27.457 |
| 13 | 1101.3 | 1111.2 | 3.917 | 3.833 | | 34.510 | | | 27.405 | | | 27.414 |
| 14 | 1101.1 | 1111.0 | 3.917 | 3.833 | | 34.510 | | | 27.405 | | | 27.414 |
| 15 | 1000.8 | 1009.6 | 4.153 | 4.075 | | 34.489 | | | 27.364 | | | 27.372 |
| 16 | 1000.5 | 1009.2 | 4.154 | 4.076 | | 34.489 | | | 27.364 | | | 27.372 |
| 17 | 902.0 | 909.7 | 4.487 | 4.415 | | 34.457 | | | 27.303 | | | 27.310 |
| 18 | 902.0 | 909.7 | 4.487 | 4.415 | | 34.457 | | | 27.303 | | | 27.310 |
| 19 | 799.3 | 805.9 | 4.898 | 4.833 | | 34.406 | | | 27.216 | | | 27.224 |
| 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 | | 27.738 | 27.754 |
| 2 | 2701.1 | 2735.5 | 1.700 | 1.504 | | 34.660 | | | 27.723 | | 27.723 | 27.737 |
| 3 | 2398.9 | 2427.8 | 1.841 | 1.670 | | 34.647 | | | 27.701 | | 27.701 | 27.714 |
| 4 | 2199.0 | 2224.4 | 1.961 | 1.806 | | 34.637 | | | 27.684 | | 27.684 | 27.696 |
| 5 | 2101.4 | 2125.2 | 2.045 | 1.897 | | 34.633 | | | 27.674 | | 27.674 | 27.686 |
| 6 | 1998.8 | 2021.0 | 2.146 | 2.006 | | 34.626 | | | 27.660 | | 27.660 | 27.672 |
| 7 | 1999.1 | 2021.2 | 2.146 | 2.006 | | 34.626 | | | 27.660 | | 27.660 | 27.672 |
| 8 | 1900.1 | 1920.7 | 2.250 | 2.117 | | 34.619 | | | 27.646 | | 27.646 | 27.657 |
| 9 | 1799.1 | 1818.2 | 2.350 | 2.224 | | 34.612 | | | 27.632 | | 27.632 | 27.643 |
| 10 | 1596.1 | 1612.3 | 2.653 | 2.540 | | 34.590 | | | 27.589 | | 27.589 | 27.599 |
| 11 | 1399.2 | 1412.7 | 3.112 | 3.010 | | 34.568 | | | 27.530 | | 27.530 | 27.539 |
| 12 | 1202.1 | 1213.1 | 3.595 | 3.505 | | 34.537 | | | 27.459 | | 27.459 | 27.468 |
| 13 | 1203.9 | 1214.9 | 3.591 | 3.501 | | 34.537 | | | 27.459 | | 27.459 | 27.468 |
| 14 | 1099.5 | 1109.3 | 3.870 | 3.786 | | 34.523 | | | 27.420 | | 27.420 | 27.429 |
| 15 | 1100.0 | 1109.8 | 3.871 | 3.787 | | 34.523 | | | 27.420 | | 27.420 | 27.429 |
| 16 | 998.7 | 1007.4 | 4.256 | 4.178 | | 34.500 | | | 27.362 | | 27.362 | 27.370 |
| 17 | 998.9 | 1007.5 | 4.260 | 4.182 | | 34.500 | | | 27.361 | | 27.361 | 27.369 |
| 18 | 900.3 | 907.8 | 4.570 | 4.498 | | 34.475 | | | 27.308 | | 27.308 | 27.316 |
| 19 | 900.2 | 907.8 | 4.575 | 4.503 | | 34.475 | | | 27.307 | | 27.307 | 27.315 |
| 20 | 798.8 | 805.3 | 4.865 | 4.800 | | 34.440 | | | 27.247 | | 27.247 | 27.254 |
| 21 | 599.5 | 604.1 | 5.490 | 5.439 | | 34.233 | | | 27.010 | | 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 | | |