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## **Physical and Chemical Data Collected in the Beaufort Sea and Canadian Archipelago August - September 1995**

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## **Canadian Data Report Of Hydrography and Ocean Sciences**

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

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Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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**by**

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## Abstract

E.C. Carmack, Macdonald, R.W., M. O'Brien, R. Pearson, L. Timmermans, D. Sieberg, B. Van Hardenberg, N. Sutherland, D. Tuele, F. Jackson and L. White 1996. Physical and Chemical Data Collected in the Beaufort Sea and Canadian Archipelago, August - September 1995. *Can. Data Rep. Hydrogr. Ocean. Sci.*: **147**, 281pp.

During an oceanographic expedition to the Canadian Archipelago and Beaufort Sea aboard the *CCGS Louis S. St. Laurent* in August to September 1995, water properties were measured as part of a program investigating climate change and contaminants in Canada's western Arctic Ocean. The oceanographic support measurements reported here include conductivity-temperature-depth (CTD) profiles and chemical measurements made on water collected by a rosette sampler (salinity, dissolved oxygen, orthophosphate, reactive silicate, nitrate and nitrite and chlorophyll a).

**Key words:** Arctic, Beaufort Sea, Canada Basin, Canadian Archipelago, chlorophyll a, CTD, nutrients, oceanography, oxygen, salinity, temperature.

## Résumé

E.C. Carmack, Macdonald, R.W., M. O'Brien, R. Pearson, L. Timmermans, D. Sieberg, B. Van Hardenberg, N. Sutherland, D. Tuele, F. Jackson and L. White 1996. Physical and Chemical Data Collected in the Beaufort Sea and Canadian Archipelago, August - September 1995. *Can. Data Rep. Hydrogr. Ocean. Sci.*: **147**, 281pp.

Au cours d'une expédition océanographique sur le CCGS Louis S. Saint-Laurent dans l'archipel canadien et dans la mer de Beaufort en août et septembre 1995, les propriétés des eaux ont été mesurées dans le cadre d'un programme de recherche sur le changement climatique et les contaminants dans la zone canadienne occidentale de l'océan Arctique. Les données océanographiques colligées ici incluent les profils de conductivité-température-profondeur ainsi que les résultats des mesures effectuées sur des échantillons d'eau prélevés au moyen d'une rosette (salinité, oxygène dissous, orthophosphate, silicate réactif, nitrate plus nitrite, et chlorophylle).

**Mots-clés :** Arctique, mer de Beaufort, bassin du Canada, archipel canadien, chlorophylle a, CTP, nutriments, océanographie, oxygène, salinité, température.

## Acknowledgments

We are very much indebted to the officers and men of the Canadian Coast Guard Ship *CCGS Louis S. St-Laurent* for their support in carrying out the sampling. We especially note the willingness of Captain P. Grandy to take advantage of the good ice conditions to extend the work to Banks Island and the continuing efforts of Captain David Johns and Ivan Côté (Coast Guard Northern, Ottawa) to plan and organize icebreaker support for our program. This work was jointly supported by the Arctic Environmental Strategy Green Plan Program and the PERD Climate Program. We thank S. Thomson for advice on style and text-editing.

## 1. INTRODUCTION

This project was carried out aboard the ice breaker *CCGS Louis S. St-Laurent* (IOS mission #9526) and was a cooperative mission involving Coast Guard Northern and scientists from Canada (Institute of Ocean Sciences and Bedford Institute of Oceanography) and the United States (University of Washington). The field work was divided into two legs: the first leg from August 1 to 17 transited the Northwest Passage from Halifax to Tuktoyaktuk and the second leg from August 18 to September 7 focused on the Beaufort Shelf, southern Canada Basin and area west of Banks Island.

The key scientific objectives of this mission were (1) to carry out an oceanographic CTD section through the Northwest Passage for comparison to oceanographic conditions prevailing one decade earlier; (2) to occupy the Arctic Ocean Climate Station (AOCS) and Beaufort and Arctic Storms (BASE) mooring sites in the Beaufort Sea and Canada Basin for the recovery and redeployment of moorings; (3) to obtain CTD/Rosette samples along a section in the southern Canada Basin and on two transects west of Banks Island and to describe circulation and water mass distributions, inputs from the Atlantic and Pacific and transport from the shelf to the ocean interior and (4) to survey contaminant burdens, including radionuclides and organochlorines in the water column and in biota.

The data assembled in the present report include the standard supporting oceanographic determinations: conductivity-temperature-depth profiles; % transmissivity and fluorescence profiles; and bottle measurements for salinity, nutrients, dissolved oxygen and Chl a. Additional measurements (not reported here) have been or will be made for water-column tracers (freons and carbon tetrachloride,  $\delta^{18}\text{O}$ , tritium and barium) and for both artificial and natural radioactive elements ( $^{137}\text{Cs}$ ,  $^{129}\text{I}$ ,  $^{239,240}\text{Pu}$ ,  $^{90}\text{Sr}$ ,  $^{241}\text{Am}$ ,  $^{210}\text{Pb}$ ,  $^{210}\text{Po}$ ,  $^{234}\text{Th}$ ,  $^{231}\text{Pa}$ ). Samples of zooplankton were collected for organochlorine determination and large volumes of water were filtered to collect suspended particles for organochlorine determination.

### 1.1 Overview of the Field Work

The sampling program for mission #9526 accomplished the following (data summarized in this report are outlined in **bold font**):

- Collection of **conductivity-temperature-depth (CTD) data.**
- Collection of **fluorometer and transmissometer measurements.**



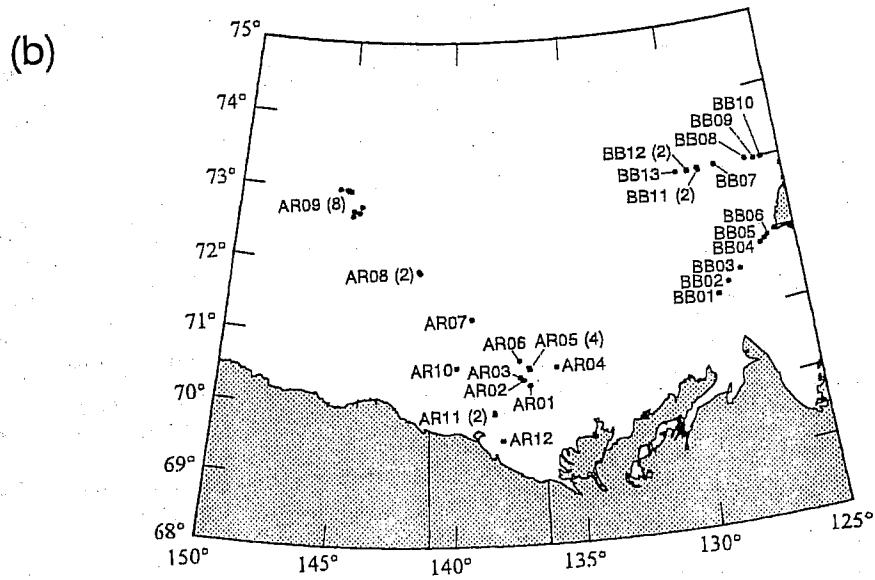
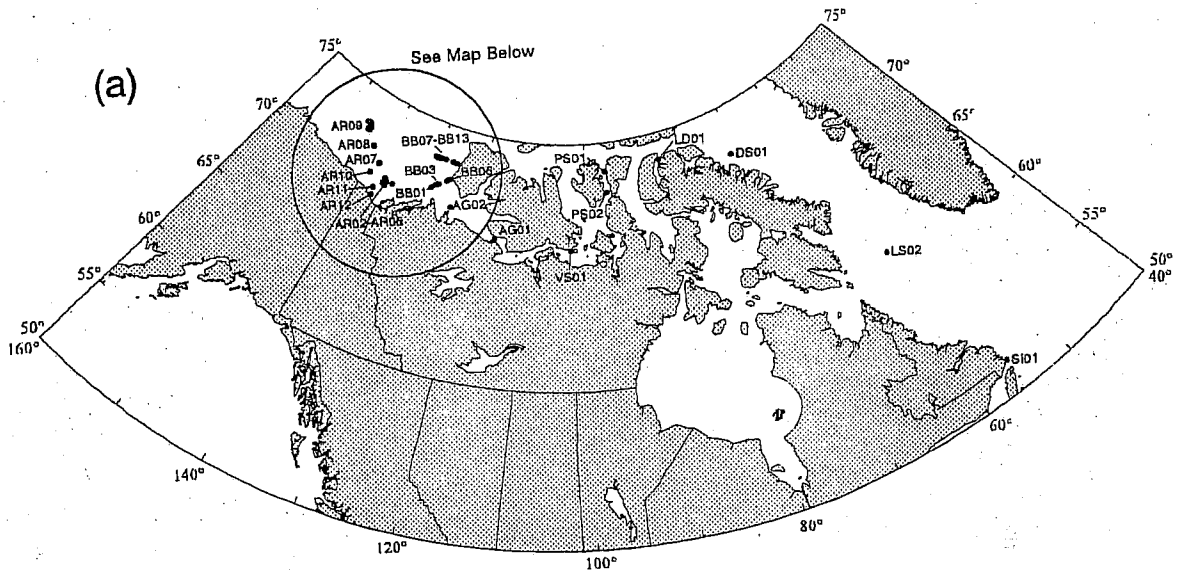


Figure 1 - Mission 9526 Station Locations

- Collection of water samples for the determination of **nitrate plus nitrite, silicate, orthophosphate, salinity, dissolved oxygen, chlorophyll a**, CFCs, total CO<sub>2</sub>, δ<sup>13</sup>C, alkalinity, calcium, δ<sup>18</sup>O, tritium, barium, trace metals and radionuclides (<sup>137</sup>Cs, <sup>129</sup>I, <sup>239,240</sup>Pu, <sup>90</sup>Sr, <sup>241</sup>Am, <sup>210</sup>Pb, <sup>210</sup>Po, <sup>234</sup>Th, <sup>231</sup>Pa).
- Collection of samples for organochlorine determination from particulate and dissolved phases of the water column by large volume filtration and in-situ pump sampling.
- Collection of zooplankton samples by vertical net hauls for organochlorine analysis, identification, carbon isotope analysis and food chain studies.
- Collection of polar cod samples at opportunity.
- Recovery of time series mooring at AOCS climate station A01-93 (72° 32.518' N and 143° 49.788' W) in the Canada Basin.
- Recovery and redeployment of mooring at AOCS climate station AM10-93 (70° 28.710' N and 136° 55.8' W) in the Mackenzie Canyon.
- Deployment of a new mooring at climate station AOCS west of Mackenzie Canyon (near 70° 30' N and 140° W, near previous station AM-1).
- Recovery of BASE current meter moorings at stations CM1-B (70° 15.173' N and 136° 57.87' W; 54m) and CM2-B (69° 29.95' N and 138° 05.806' W; 83m). Redeployment of CM2-B at the same location and deployment of a new mooring at station CM3-B (69° 51' N and 138° 22' W; 200m).
- Deployment of an IPS mooring at site IPS3 (70° 25.718' N and 133° 47.728' W).
- Deployment of a buoy for the International Arctic Buoy Program in the Beaufort Sea on behalf of E. Hudson (AES) and D. Benner (NOAA).
- Deployment of Challenger pumps to collect samples for radionuclide analysis and for POC and PON determination.

## 1.2 Station Locations and Information

Figure 1 shows the station locations in the Canadian Archipelago and Beaufort Sea during the 9526 mission. The locations for the CTD casts were determined

using a Trimble Transpak GPS located near the CTD acquisition system with an antenna mounted on the starboard side of the ship two decks up from the boat deck. The locations for Sea-Bird CTD casts were taken from the ship's navigation system on the bridge. The positions are expected to be within 100m of the true position. Table 1 provides a chronological list of the CTD profile locations at the start of the cast. Where more than one cast was done at a station separate coordinates are given for each cast.

## **2. METHODS**

### **2.1 Field Sampling - CTD/Rosette Casts**

The water sampling and CTD casts were carried out from the starboard boat deck using an A-frame and a hydraulic winch wrapped with a 4-conductor sea cable using a 24-bottle GO (General Oceanics) rosette sampler outfitted with 24 10 L BIO-design bottles. The rosette package was lowered over the side using the A-frame and winch and the rosette was placed on a flat trolley once on deck and pulled by means of a come-along into a heated container for the water sampling. To prevent freezing of the CTDs and rosette, they were stored in a specially designed "hanger" constructed from a pair of 8'x12' cargo containers. The rosette and CTDs were kept in the container at room temperature until just before the cast when they were rolled out on deck and deployed. The rosette had a 1016 (intelligent) pylon and was controlled by its own deck unit. Two internal conductors were used for the primary CTD (Falmouth ICTD) and the remaining internal conductor and shield were shared between the Guildline CTD and the rosette pylon. At the bottom of the cast, the Guildline was turned off and the rosette was turned on for tripping bottles on the upcast. The instrumental data were collected on an IBM PC located in the CTD/Rosette lab by means of a conducting cable. In addition to the CTD instrumentation, the system also included a Sea Tech transmissometer and a Sea Tech fluorometer.

### **2.2 CTD (Conductivity-Temperature-Depth) Systems**

Four CTD (Conductivity-Temperature-Depth) instruments were used during this mission:

The primary CTD was a **Falmouth ICTD** (S/N 1329), permanently attached to the 24-bottle General Oceanics rosette water sampling system with a GO 1016 pylon. Attached to the external sensor ports of this CTD were the following instruments: a Sea-Tech Transmissometer (S/N 254, 25cm path); a Sea-Tech Fluorometer (S/N 93) and a Sea-Bird Touchdown switch.

A **Guildline 8705 CTD** (S/N 43379) was attached at one of the bottle sampling positions on the GO rosette for use as backup to the ICTD and for intercomparative casts.

A portable **Sea-Bird SBE-19** (S/N 1031) was used for CTD casts before the rosette system was operational and for casts requiring a portable system. This CTD had the following external sensors attached to its data acquisition ports: a Sea-Bird Oxygen Sensor (S/N 230326) and a Sea-Tech Transmissometer (S/N 242, 5 cm path).

A **Falmouth MCTD** (S/N 1344), intended as primary portable CTD for helicopter work, showed high levels of noise on all data channels and was therefore not used extensively.

In several rosette casts, the SBE-19 and MCTD were also attached to the rosette system in order to obtain intercomparative data for all four CTD instruments.

A 4-conductor sea-cable was used on the winch. Two of the internal conductors were used for the ICTD. The remaining internal conductor and shield were alternately used for either the Guildline CTD or the GO rosette pylon. Typically, the rosette was lowered with both the FSI and Guildline acquiring data. At the bottom of the cast, the Guildline was turned off and the rosette was turned on in order to trip bottles during the upcast.

### 2.2.1 Processing and Validation of the CTD data

The steps outlined below were performed as required in processing data from each CTD cast. The protocols for processing the CTD data are documented in detail in an IOS internal document by *Pearson* [1995]. Table 1 indicates which instrumentation was used for each cast. Derived oceanographic quantities were calculated from the pressure, temperature and salinity data using the algorithms given by *Fofonoff and Mallard* [1983]. See Appendix 4.1 for data tables and plots of the CTD data.

Processing of the CTD data involved the following steps :

- verification of calibration coefficients for all sensors;
- verification against log sheets of data files produced by the acquisition programs;
- checking and editing the header information;

- conversion of the CTD data files from their acquired format into IOS HEADER format;
- application of sensor calibrations to the "raw" data;
- creation of profile plots throughout the processing;
- removal of data spikes and corrupted data;
- correction for differences in temperature and conductivity time responses (method used is dependent on CTD type);
- deletion of swells, upcast and unwanted surface records;
- removal of salinity spikes;
- manual editing of other data problems where required;
- reduction of the data to one metre averaged values (data set has only one record per decibar);
- production of final test plots to ensure all "glitches" have been properly dealt with;
- data validation by comparing pre and post cruise calibrations;
- creation of overlay plots and comparison of CTD data with bottle data, other reference data and historical data;
- adjustment of the processed CTD data to agree with reference data.

The processing details for data collected with each of the CTD instruments are described below:

#### **2.2.1.1 Falmouth ICTD Data**

There were 46 ICTD cast files of which 45 were processed. Cast #13 data were corrupted because the guards were left on the temperature sensors and conductivity cell. There was no header file created for cast #13 so one was created manually. There were two acquisition files for cast #36, the first one was renamed and only the second was processed. Data for cast #29 (station AG01) were lost during the cruise due to an operator error. All other files converted to IOS header format normally. The acquisition program marked the record numbers corresponding to the bottle trips and files were created containing sensor information at bottle trip depths.

All raw data files were converted to IOS header format, all headers were checked and edited to agree with the log book (times/positions/depths/etc.) and cruise plots were produced to verify cast locations. The station name associated with casts 13-16 was changed to DS01 from BB01 to resolve a conflict with station names used later in the cruise.

Temperature measurements are believed to be accurate throughout the cruise since temperature calibrations carried out before and after the cruise for both the

thermistor and platinum temperature sensors agreed to within 0.002 degrees. The post-cruise temperature calibrations were used in the calibration control file. The pre-cruise conductivity calibrations were used in processing since no post-cruise calibration was available. Transmissivity was calibrated using a calibration performed on Aug 8 aboard the ship. Fluorometer data were calibrated using nominal coefficients calculated from the instrument range 0 to 3 mg/m<sup>3</sup>. Test plots indicated that de-spiking was required for cast #44 (very spiky) and casts #50,53,59,63,65,67,73,91,103,120-122.

Salinities were recalculated for all casts after compensation for sensor response time by applying an exponential filter to the conductivity channel using a sampling interval of 0.04 and filter time response of 0.50. A text editing program was used to remove values obtained before immersion, unreliable data at the surface and those due to the effects of ship motion from surface swell. The data was then reduced to one metre averaged values.

A comparison of salinity values from the CTD at bottle trip depths with those from the bottle samples for all rosette casts indicated that the values from the ICTD were  $0.038 \pm .002$  PSU too high for bottles from depths exceeding 500 meters. The comparisons were inconclusive for depths shallower than 500 metres due to the relatively large salinity gradients. The ICTD data was corrected by subtracting .038 PSU from all salinity values in the depth-averaged files.

#### 2.2.1.2 Guildline CTD 8705 Data

There were 47 casts done with the Guildline CTD. Cast #43 contained no data because of an acquisition program problem during the cruise. For several casts, errors in the date entered in the cruise log were corrected, and discrepancies between information in the log sheets and that in the header files for positions and bottom depths were edited to agree with the log. As for the ICTD, the station name associated with casts 13-16 was changed to DS01 from BB01. (The log book indicates that cast #51 and 52 were not done with the Guildline CTD but with the Falmouth MCTD.) Data files from all Guildline casts were despiked.

Pressure values from the Guildline were corrected to agree with the ICTD after comparing the differences in maximum pressure recorded between the ICTD and Guildline CTD's for all rosette casts in which both CTD's were used. The correction is:

$$\text{Corrected Pressure} = \text{Calibrated Pressure} * 0.9982 - 2.5396$$

### 2.2.1.3 Sea-Bird SBE-19 CTD Data

There were 25 SBE-19 casts. For casts in the range 7 to 35, the SBE-19 was equipped with a 5cm transmissometer and an oxygen sensor. For all other casts, it was used without any external sensors. The raw data files generated by the acquisition program were converted to IOS header format and header data for each cast were entered manually from the CTD logs. The configuration file used for processing the data contained the calibration coefficients for the standard P, T, and C channels. The configuration file for casts # 7 through 35 also included the coefficients for the transmissometer and oxygen data channels. Profile test plots showed the erroneous surface readings from records taken before the CTD was lowered into the water, and also showed that despiking was not required for these CTD data. The differences in the time response of the temperature sensor and the conductivity cell were compensated by advancing the temperature data by 3 records and advancing the conductivity data by 1.5 records, based on past experience with this CTD. Cast files were edited to remove records from the start before the CTD begins its descent, records from swells and to delete the upcast. The data were then averaged into one metre depth increments.

For casts 7 through 35, dissolved oxygen concentrations (mL/l) were calculated from data from the oxygen current and temperature channels.

Based on a comparison of temperature and salinity data from pairs of ICTD and SBE-19 CTD casts, the following corrections were made to processed data:

$$\begin{aligned} \text{Corrected Temperature} &= \text{Calibrated Temperature} - 0.003 \text{ (degrees C)} \\ \text{Corrected Salinity} &= \text{Calibrated Salinity} + 0.017 \text{ (PSS-78)} \end{aligned}$$

### 2.3 Chemistry Sampling and Analyses

Samples were drawn from the 10 L BOT bottles on the 24 bottle GO rosette inside a heated container. The order of sampling was: CFC; dissolved oxygen; tritium (1L glass bottle); total CO<sub>2</sub>; carbon isotopes; alkalinity; nutrients; oxygen isotopes; barium; salinity; chlorophyll a (if sufficient water remaining). Additional bottles were tripped at a given depth when sampling for radionuclides due to the larger volumes of water required. Each sample bottle on the rosette was given a unique identifier number of six digits. CTD casts and water sampling were coordinated and the instrumental data at bottle trip depths is reported in

Appendix 4.2 together with water chemistry data. See Appendix 4.3 for chemistry profile plots and Appendix 4.4 for property-property plots.

### 2.3.1 Laboratory Methods

The precision of the methods used was estimated by analysing replicates and is expressed as the pooled standard deviation  $s_p$ , which is calculated as

$$s_p = \sqrt{\frac{\sum v_i s_i^2}{\sum v_i}}$$

and where  $v_i = n_i - 1$  degrees of freedom, and the  $n_i$  and  $s_i$  refer to the number of replicates and their standard deviation for the individual components used in the pooled standard deviation calculation.

#### 2.3.1.1 Temperature

Temperatures at the bottle depths were obtained from the CTD records from the same cast. In the chemistry data tables (Appendix 4.2), the CTD salinities and temperatures at the bottle depths are reported along with the chemistry data.

#### 2.3.1.2 Salinity

Salinity samples were drawn into 200 mL glass salinity bottles after 3 rinses, from 10 L BOT bottles. The samples were then tightly capped until analysis onboard ship using a Guildline Autosol (model 8400A, S/N 49463). Data are reported in practical salinity units (psu) [Lewis and Perkin, 1978]. The salinometer was standardized against Standard Sea Water of salinity 34.998 psu (K15 = 0.99994, batch P118, dated Nov. 12, 1991) which was obtained from Standard Sea Water Service, Institute of Oceanography, Wormley, Godalming, Surrey, England. For mission #9526, the overall precision of sampling and analysis was evaluated from a set of 34 duplicates (pairs collected from the same bottle). The pooled standard deviation ( $s_p$ ) was 0.0012 psu with 33 degrees of freedom. Two pairs were eliminated from the calculation (#123445 AR10 50m and #128939 BB02 50m). In Appendix 4.2, the CTD salinities at the bottle depths are included in the tables.



### 2.3.1.3 Dissolved Oxygen

Dissolved oxygen samples were "pickled" immediately in the field and taken to the laboratory on the ship for determination by the Micro-Winkler technique [Carpenter, 1965]. Analyses were carried out within 24 hours of collection. Calibration of the thio-sulphate solution was performed daily with each titration set by using a primary standard  $\text{KIO}_3$  which was prepared in the laboratory. Precision of the method was monitored during calibration and with blind replicates sampled from the same BOT bottles. The pooled standard deviation for 85 pairs was  $1.57 \mu\text{M}$  (one pair was not included - sample #129135 station A01-95 (AR09) 60m -  $362.2 \mu\text{M}$  and  $415.4 \mu\text{M}$ ). The data reported in Appendix 4.2 are for stations on leg 2 only as there were no samples taken on leg 1.

### 2.3.1.4 Nutrients

Water samples for nutrient determination were collected into glass and polystyrene test tubes (2 glass and 2 polystyrene tubes per sample) after three rinses. Nutrients (silicate, nitrate plus nitrite and orthophosphate) were determined in the laboratory using Technicon Autoanalyzer II components. The samples from the first leg in the Canadian Archipelago (stations DS01, LD01, PS01, PS02, VS01, AG01 and AG02) were frozen and brought back to IOS for analysis. All other samples were analyzed onboard the ship. Reactive silicate and nitrate plus nitrite were determined according to Technicon Industrial Methods No. 186-72 W and 158-71 W respectively, and soluble orthophosphate was determined using a modified Technicon method [Brynjolfson, 1973]. Sagami standards were used to calibrate secondary standards which were prepared daily in 30.5 g/L NaCl solutions. Most of the water samples were analyzed in duplicate and the average is reported in the tables of Appendix 4.2. The precision of the determinations, based on these duplicates, was found to be: silicate,  $s_p = 0.16 \mu\text{M}$ , degrees of freedom = 496; nitrate  $s_p = 0.15 \mu\text{M}$ , degrees of freedom = 493; phosphate  $s_p = 0.06 \mu\text{M}$ , degrees of freedom = 502.

In Appendix 4.2, the nitrate data is flagged and should be used with caution as there are offsets in the data in the profiles of stations where samples from different casts were run in different analytical runs. This is particularly noticeable for stations AR05, AR09 and BB12 where multiple casts were run. There was no credible way to correct for this problem and there is no way to determine how the different stations might be offset from each other. This caution applies only to the AR## and BB## stations which were analyzed on board the ship and not to the data from stations from leg 1.

For the silicate data from leg 2, for some of the analytical runs, it was necessary to do a careful examination of the peak shapes of the standard envelopes and

the samples and choose the calibration data with the peak shapes that best matches the peak shapes of the samples. There is a high degree of confidence that this treatment of the data was justified and comparison of this data with the data from mission 9324 shows a good correlation at station AR09.

### 2.3.1.5 Chlorophyll a and phaeo-pigments

Chlorophyll samples were taken down to a maximum depth of 325m and were subsampled directly from the 10 L BOT bottles into 1 L polybottles. Onboard ship, 1 to 2 L samples were filtered onto 24 mm GF/F filters using a low vacuum filtration. The filtration castles were rinsed down with 3.2% NaCl and about one mL of a 1% suspension of  $MgCO_3$  was squirted onto the filter just before the filtration was complete. The filters were then folded in half and wrapped in a Whatman filter, labeled, placed in a dark bottle containing dry silica gel and placed in a  $-20\text{ }^\circ\text{C}$  freezer until analysis. During the filtration and storage, the samples were kept dark as much as possible. At IOS, chlorophyll a and phaeo-pigment levels were determined fluorometrically with a Turner Design fluorometer (model 10-AU-005) which was standardized with pure Chlorophyll a [Strickland and Parsons, 1972]. Chlorophyll a and phaeo-pigment values were corrected for filter blanks which were treated in exactly the same way as samples and the average filter blank was subtracted from each sample as an equivalent weight ( $\mu\text{g}$ ) of chlorophyll or phaeo-pigment per filter.

#### Filter blanks:

$0.000224 \pm 0.000150\ \mu\text{g}$  Chla per filter,  $n=9$

$0.00131 \pm 0.00085\ \mu\text{g}$  Phaeo-pigment per filter,  $n=9$

There were no duplicate samples filtered and analyzed for chlorophyll on this cruise. The precision, based on duplicates from the 1992 data from this series [Pearson *et al*, 1994] was for chlorophyll a,  $s_p = 0.11\ \mu\text{g/L}$  and for phaeo-pigment,  $s_p = 0.0059\ \mu\text{g/L}$  for 3 duplicate pairs.

Table 1 - Mission 9526 CTD/Rosette Cast Locations

Cast #	Station	Date	Time UTC	Latitude deg. N	Longitude deg. W	Max Pres (dbar)	Water Depth (m)
1	BI01	3/8/95	18:30	52.128	55.353	?	161
5	LS02	5/8/95	17:19	62.020	58.427	600	2194
13	DS01	8/8/95	11:30	72.220	71.409	628	1094
14	DS01	8/8/95	11:29	72.220	71.409	628	1094
17	LD01	8/10/95	14:30	73.469	85.015	593	651
18	LD01	8/10/95	14:47	73.469	85.015	594	652
20	PS01	8/12/95	15:41	73.361	96.028	238	236
21	PS01	8/12/95	15:49	73.361	96.028	237	236
23	PS02	8/12/95	22:11	72.110	95.944	404	400
24	PS02	8/12/95	22:19	72.110	95.944	404	399
26	VS01	8/13/95	21:40	68.713	102.606	100	99
27	VS01	8/13/95	21:42	68.713	102.606	100	99
29	AG01	8/15/95	20:32	69.109	115.709	196	200
30	AG01	8/15/95	20:33	69.109	115.709	196	200
31	AG02	8/16/95	16:22	70.419	124.355	239	240
32	AG02	8/16/95	16:20	70.419	124.355	237	240
33	AR01	8/19/95	18:12	70.258	136.952	56	54
34	AR01	8/19/95	18:12	70.258	136.985	52	53
36	AR09	8/20/95	21:22	72.986	145.361	121	3370
37	AR09	8/20/95	21:45	72.986	145.361	122	3370
38	AR09	8/21/95	14:32	72.981	145.039	241	3370
39	AR09	8/21/95	14:32	72.981	145.039	244	3370
40	AR09	8/21/95	18:12	72.966	144.969	353	3370
41	AR09	8/21/95	18:12	72.966	144.969	354	3370
42	AR09	8/21/95	20:50	72.962	144.891	1200	3370
44	AR09	8/22/95	14:25	72.751	144.337	3499	3451
45	AR09	8/22/95	14:31	72.751	144.337	3514	3451
47	AR09	8/22/95	21:00	72.670	144.430	3473	3423
48	AR09	8/22/95	21:07	72.670	144.430	3471	3423
50	AR09	8/23/95	14:25	72.686	144.697	3529	3428
51	AR09	8/23/95	14:26	72.686	144.697	3527	3428
53	AR09	8/23/95	20:04	72.621	144.729	1701	3396
54	AR09	8/23/95	20:04	72.621	144.729	1700	3396
55	AR08	8/24/95	15:30	71.873	141.666	402	2791
56	AR08	8/24/95	15:33	71.873	141.666	399	2793

Cast #	Station	Date	Time UTC	Latitude deg. N	Longitude deg. W	Max Pres (dbar)	Water Depth (m)
57	AR08	8/24/95	18:40	71.848	141.605	2806	2763
58	AR08	8/24/95	18:40	71.848	141.605	2803	2763
59	AR07	8/24/95	1:25	71.206	139.339	2030	1997
60	AR07	8/25/95	1:32	71.206	139.339	2029	1997
61	AR06	8/25/95	14:45	70.608	137.368	1233	1235
62	AR06	8/25/95	14:52	70.608	137.368	1234	1235
63	AR05	8/25/95	21:30	70.480	136.917	303	664
64	AR05	8/25/95	21:31	70.480	136.917	303	664
65	AR05	8/26/95	14:30	70.484	136.978	245	770
66	AR05	8/26/95	14:33	70.484	136.978	239	770
67	AR05	8/26/95	17:10	70.481	136.967	769	766
68	AR05	8/26/95	17:09	70.481	136.967	766	766
69	AR05	8/26/95	23:54	70.515	136.988	778	771
70	AR05	8/26/95	23:53	70.515	136.988	777	771
71	AR04	8/27/95	2:05	70.500	135.848	518	525
72	AR04	8/27/95	2:08	70.500	135.848	516	525
73	AR03	8/29/95	14:20	70.376	137.346	287	322
74	AR03	8/29/95	14:31	70.376	137.346	285	322
75	AR02	8/29/95	23:59	70.336	137.196	90	100
76	AR02	8/30/95	0:05	70.336	137.196	88	100
77	AR10	8/30/95	19:00	70.538	139.980	720	718
78	AR10	8/30/95	19:00	70.538	139.980	717	718
79	AR11	8/31/95	0:30	69.886	138.431	207	208
80	AR11	8/31/95	0:30	69.886	138.431	203	208
81	AR11	8/31/95	2:05	69.895	138.434	212	211
82	AR11	8/31/95	2:11	69.895	138.434	210	211
83	AR12	8/31/95	20:02	69.496	138.093	81	73
84	AR12	8/31/95	20:17	69.496	138.093	80	76
85	BB01	9/1/95	19:20	71.235	128.775	49	46
86	BB01	9/1/95	19:18	71.235	128.775	48	46
88	BB02	9/1/95	22:10	71.380	128.272	117	113
89	BB02	9/1/95	22:12	71.380	128.272	115	113
91	BB03	9/2/95	0:20	71.530	127.693	305	304
92	BB03	9/2/95	0:17	71.530	127.693	304	304
94	BB04	9/2/91	14:25	71.828	126.587	296	290
95	BB04	9/2/95	14:24	71.828	126.587	295	290
97	BB05	9/2/91	16:00	71.878	126.379	191	185
98	BB05	9/2/95	16:04	71.878	126.379	189	185

Cast #	Station	Date	Time UTC	Latitude deg. N	Longitude deg. W	Max Pres (dbar)	Water Depth (m)
100	BB06	9/2/91	18:25	71.917	126.222	85	74
101	BB06	9/2/95	18:34	71.917	126.222	84	74
103	BB07	9/3/91	15:01	73.007	128.091	314	302
104	BB07	9/3/95	15:00	73.007	128.091	302	302
106	BB08	9/3/91	19:10	73.008	126.619	105	102
107	BB08	9/3/95	19:16	73.008	126.619	103	102
109	BB09	9/3/91	21:55	72.992	126.186	45	39
110	BB09	9/3/95	21:55	72.992	126.186	43	39
112	BB10	9/3/91	23:00	72.997	125.819	37	30
113	BB10	9/3/95	22:59	72.997	125.819	36	30
115	BB11	9/4/95	15:08	73.005	128.876	498	498
116	BB11	9/4/95	15:08	73.005	128.876	498	498
117	BB11	9/4/95	16:40	72.983	128.850	163	479
118	BB11	9/4/95	16:36	72.983	128.850	160	479
120	BB12	9/4/95	18:10	72.992	129.346	697	695
121	BB12	9/4/95	18:16	72.992	129.346	696	695
122	BB12	9/4/95	20:50	73.002	129.346	703	708
123	BB12	9/4/95	20:50	73.001	129.342	702	708
124	BB13	9/4/95	22:58	72.991	129.885	1244	1249
125	BB13	9/4/95	22:54	72.992	129.884	1245	1249

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## **4. APPENDICES**

### **4.1 CTD Data: Tables and Plots**

The following appendix contains data plots for each CTD cast taken on the 9526 cruise. Each page displays the data for one cast in four sections:

#### **Header**

The header appears in the upper left quadrant of the page. Each header has 6 lines that appear as follows:

Cruise 9526 - Louis S. St-Laurent  
NW Passage and Beaufort Sea  
STATION : AR09  
REFERENCE NO: 95-06-048  
DATE/TIME : 22/08/95 21:07 UTC UTC  
POSITION : 72-40.2N 144-25.8W

The first two lines are the title and sub-title and are the same for each page. The remaining four lines are defined as follows:

STATION - This is the 4 character station name. These names match the names given in Table 1 and in Figure 1.  
REFERENCE NO - This number appears as 95-06-### or 95-26-###, where ### is the consecutive cast number as referred to in the report text and listed in Table 1.  
DATE/TIME - This is the date and time (UTC) at the start of the cast  
POSITION - This is the position at the start of the cast.

**Profile Plot** In the lower left quadrant is the profile plot. Each profile plot shows Potential Temperature, Salinity, and when available Transmissivity and Fluorometer readings (Chlorophyll a), as a function of Pressure.

**TS Plot** In the lower right quadrant is the TS plot. This plot shows Potential Temperature as a function of Salinity. Also shown on each profile are three lines of constant potential density ( $\text{kg/m}^3$ ) and the freezing point line.

**Data Table** In the upper right quadrant is a data table showing various measured and derived properties at selected standard depths. Units and abbreviations used in the data table are summarized in the table on the next page.



Quantity	Abbreviation	Units	Notes
Pressure	Pres	DBAR	
Temperature	Temp	Deg C	
Potential Temperature	Theta	Deg C	
Salinity	Sal	PSS-78	
Depth	Dept	metre	
Potential Density	Gam-th	kg/m <sup>3</sup>	
Geopotential Anomaly	GPA	J/Kg	
% Transmissivity	% Tr	%/metre	
% Transmissivity	%/5cm	%/5cm	
Chlorophyll	Chl	mg/m <sup>3</sup>	Chlorophyll has been measured using a Fluorometer and calculated using nominal coefficients.

Units and Abbreviations used in APPENDIX Data Tables

Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : B101

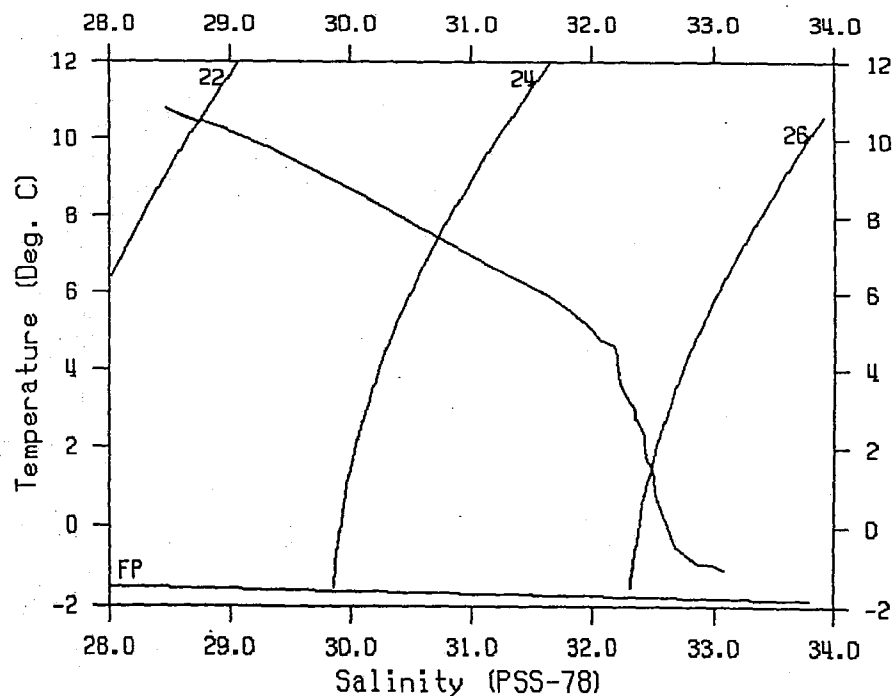
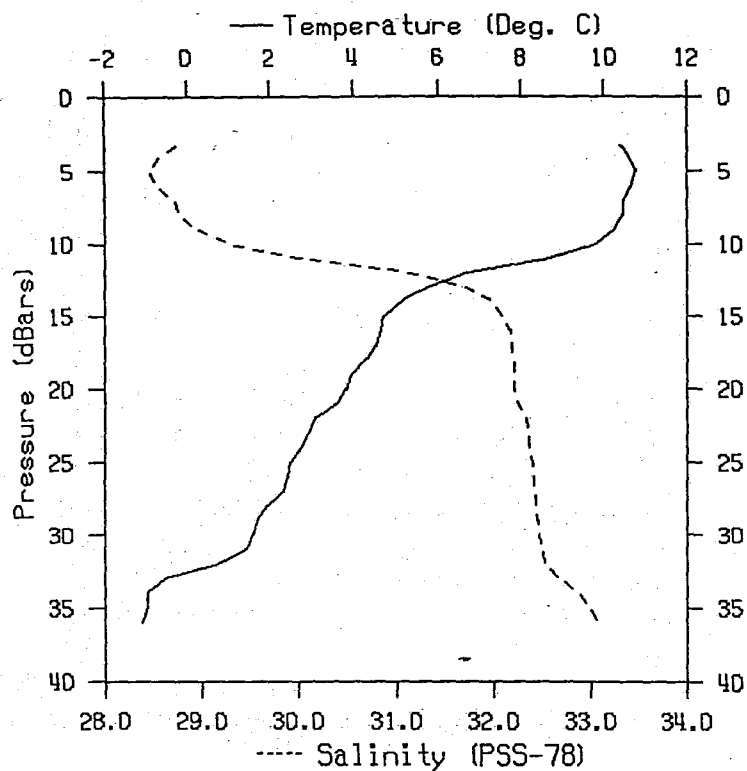
REFERENCE NO.: 95-26-001

DATE/TIME : 03/08/95 18:36 UTC

POSITION : 52- 7.7N 055-21.2W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	10.771	10.771	28.478	5	606.0			21.766	1464.8
7	10.481	10.481	28.718	7	583.7			22.000	1484.1
10	9.802	9.801	29.297	10	530.2			22.560	1482.3
15	4.751	4.750	32.090	15	257.3			25.421	1466.2
20	3.830	3.828	32.221	20	238.5			25.618	1462.7
25	2.522	2.521	32.411	25	213.2			25.884	1457.4
30	1.611	1.610	32.473	30	202.1			26.000	1453.5
36	-1.092	-1.092	33.082	36	142.3			26.628	1442.1

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

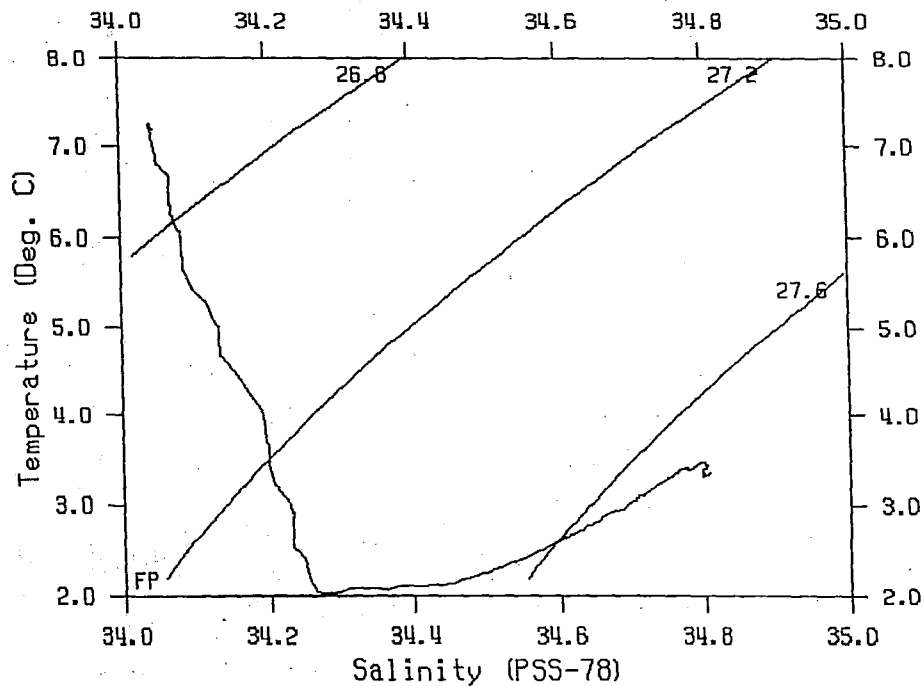
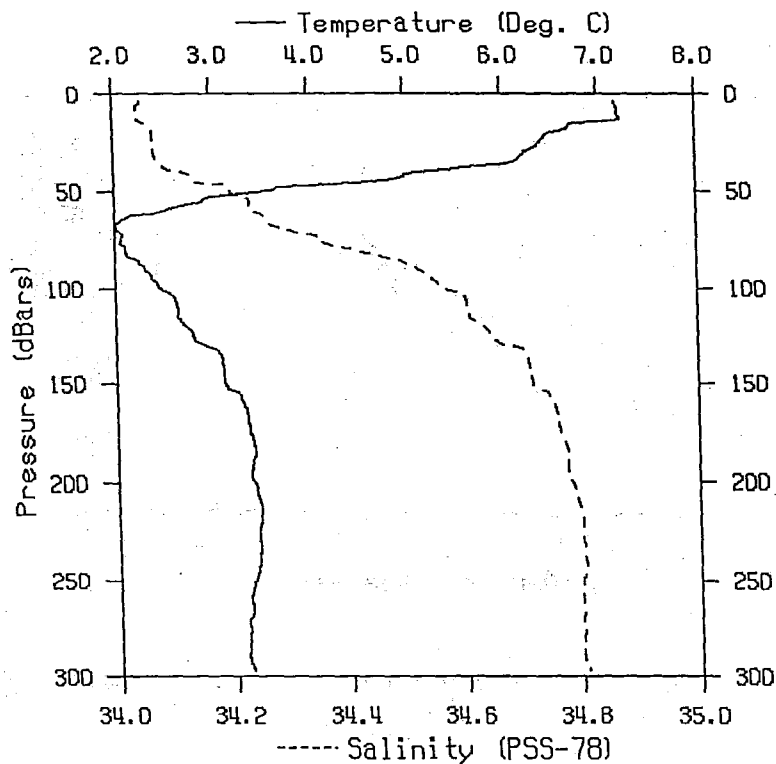
STATION : LS01

REFERENCE NO.: 95-26-003

DATE/TIME : 04/08/95 18:47 UTC

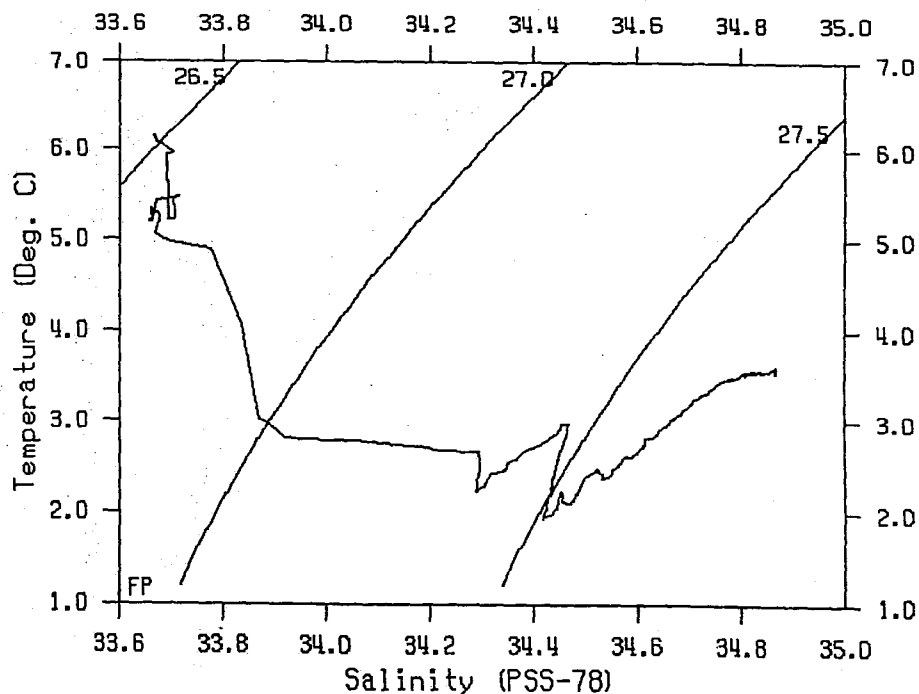
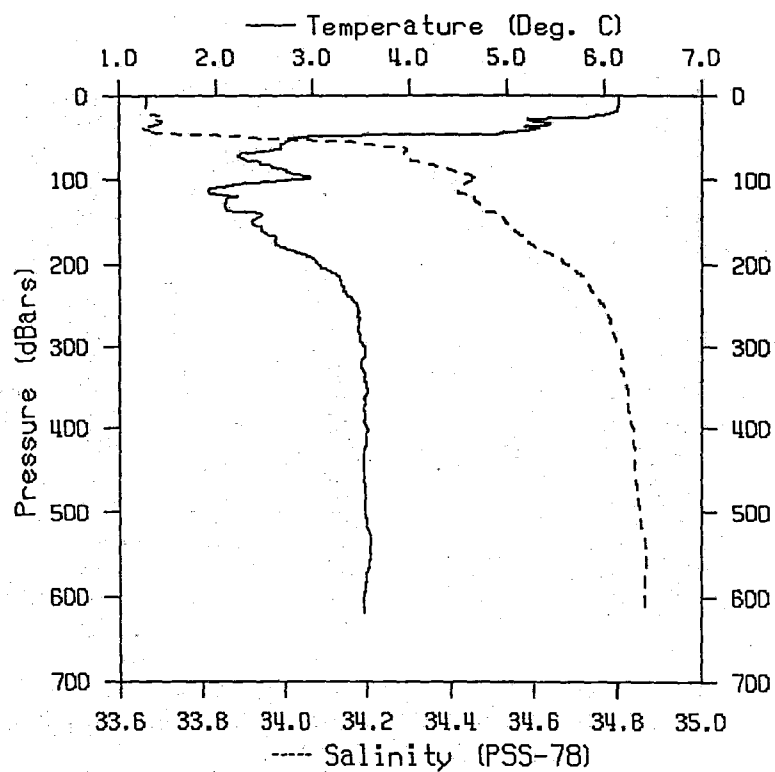
POSITION : 56-41.1N 056-27.5W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	7.194	7.194	34.046	5	138.9		26.667	1478.3
7	7.214	7.214	34.041	7	139.6		26.660	1476.4
10	7.218	7.217	34.042	10	139.7		26.660	1476.5
15	6.795	6.794	34.053	15	133.4		26.726	1476.9
20	6.537	6.536	34.067	20	129.1		26.772	1476.0
25	6.419	6.417	34.068	25	127.6		26.788	1475.6
30	6.255	6.253	34.070	30	125.6		26.811	1475.1
40	5.276	5.273	34.116	40	110.7		26.968	1471.4
50	3.595	3.591	34.201	50	87.0		27.217	1464.7
75	2.067	2.063	34.357	74	62.4		27.477	1458.8
100	2.470	2.464	34.565	99	49.9		27.611	1461.2
150	3.126	3.117	34.717	149	44.5		27.673	1465.0
200	3.412	3.399	34.784	198	42.6		27.699	1467.1
250	3.405	3.388	34.800	248	41.7		27.713	1468.0
297	3.369	3.350	34.809	294	41.1		27.723	1468.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : LS02  
 REFERENCE NO.: 95-26-005  
 DATE/TIME : 05/08/95 17:19 UTC  
 POSITION : 62- 1.0N 058-25.6W

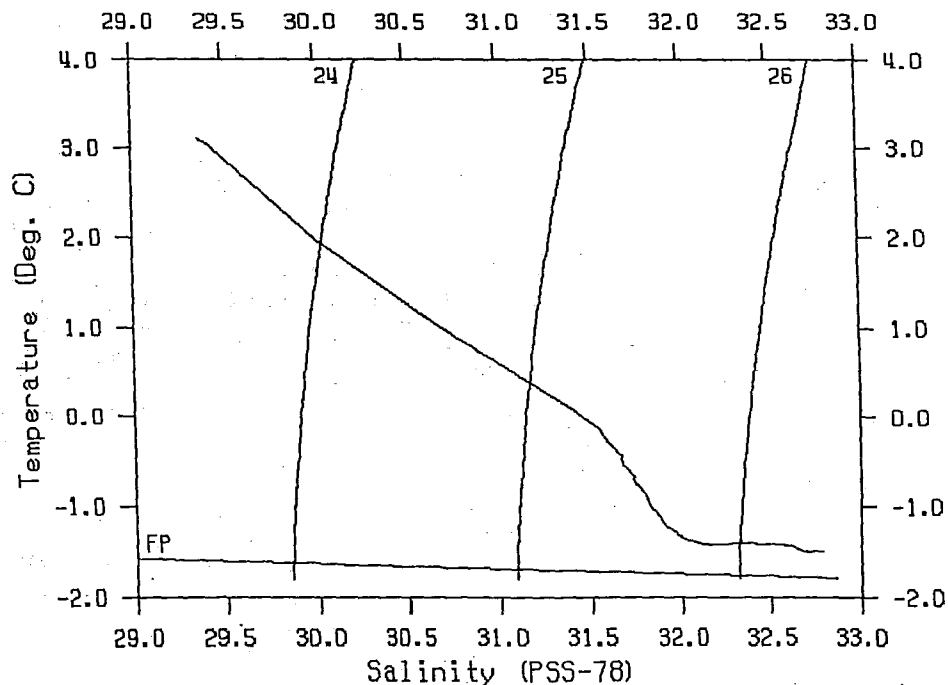
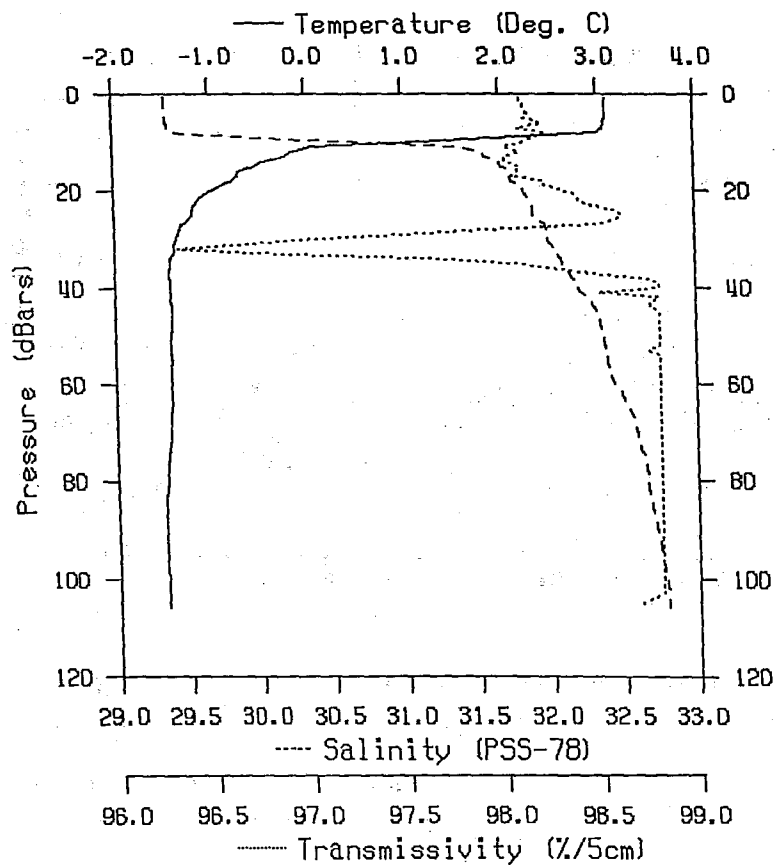
Pres	Temp	Theta	Sal	Dept	SVR	Z Tr Chlo	Sig-t	Sound
5	6.153	6.153	33.666	5	154.2		26.506	1473.7
7	6.153	6.153	33.666	7	154.3		26.505	1473.8
10	6.152	6.151	33.666	10	154.3		26.505	1473.8
15	6.147	6.145	33.667	15	154.2		26.507	1473.9
20	6.075	6.073	33.671	20	153.1		26.519	1473.7
25	5.888	5.886	33.691	25	149.5		26.558	1473.0
30	5.219	5.216	33.704	30	140.9		26.649	1470.5
40	5.293	5.290	33.666	40	144.7		26.610	1470.9
50	2.816	2.813	33.923	50	101.1		27.067	1461.0
75	2.264	2.280	34.304	74	68.1		27.417	1459.6
100	2.870	2.864	34.462	99	61.1		27.493	1462.8
150	2.378	2.370	34.533	149	51.9		27.592	1461.6
200	3.067	3.054	34.676	198	47.4		27.646	1465.5
250	3.461	3.445	34.767	248	44.7		27.681	1468.2
350	3.571	3.547	34.821	347	42.6		27.713	1470.3
500	3.553	3.519	34.852	495	41.4		27.740	1472.8
620	3.540	3.497	34.867	613	41.1		27.753	1474.7



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : IBO1  
 REFERENCE NO.: 95-26-007  
 DATE/TIME : 07/08/95 18:31 UTC  
 POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.095	3.094	29.380	5	447.9	98.1		23.420	1455.6
7	3.074	3.074	29.396	7	446.5	98.1		23.434	1455.6
10	1.046	1.046	30.666	10	336.7	98.1		24.585	1448.3
15	-.547	-.547	31.685	15	251.6	98.1		25.478	1442.4
20	-.979	-.979	31.833	20	238.9	98.3		25.612	1440.6
25	-1.183	-1.183	31.896	25	233.4	98.6		25.669	1439.8
30	-1.348	-1.348	31.994	30	225.4	97.0		25.753	1439.3
40	-1.425	-1.426	32.198	40	209.4	98.8		25.920	1439.3
50	-1.414	-1.415	32.367	50	196.3	98.8		26.057	1439.8
75	-1.463	-1.465	32.645	74	174.6	98.8		26.284	1440.3
100	-1.491	-1.493	32.784	99	163.6	98.8		26.397	1440.8
106	-1.489	-1.491	32.792	105	163.0	98.7		26.404	1440.9

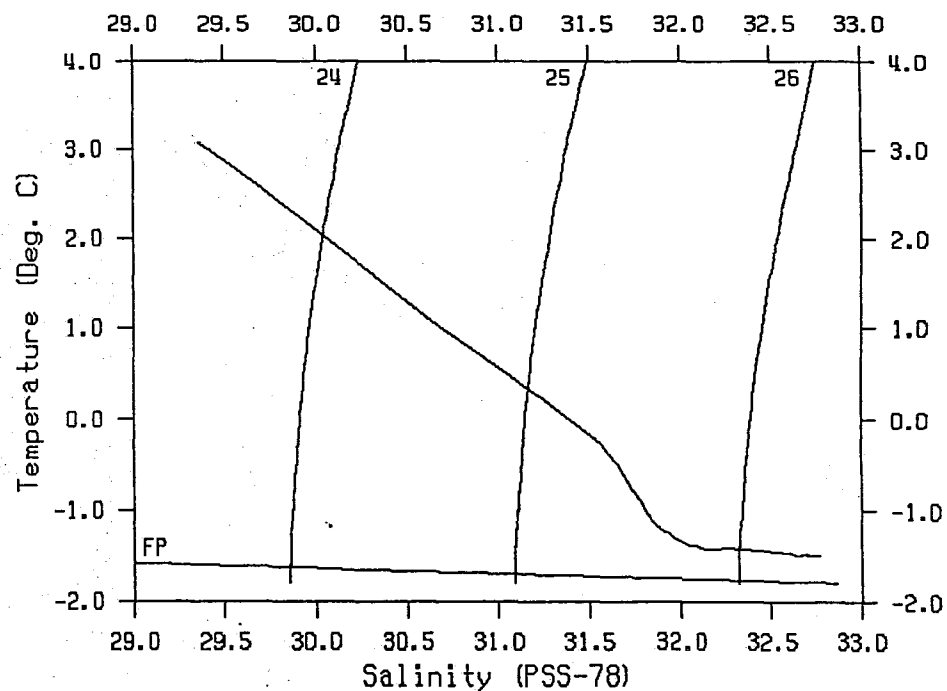
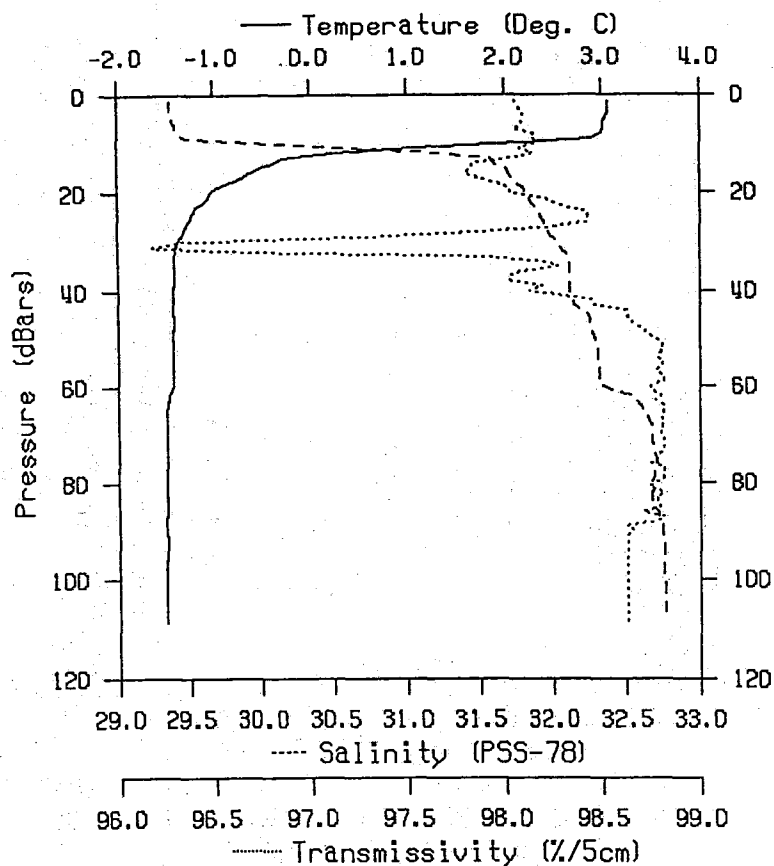
22



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : IB02  
 REFERENCE NO.: 95-26-008  
 DATE/TIME : 07/08/95 18:53 UTC  
 POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	3.050	3.050	29.383	5	447.2	98.1		23.426	1455.4
7	3.015	3.014	29.409	7	445.1	98.1		23.449	1455.3
10	2.052	2.051	30.030	10	391.1	98.2		24.014	1452.0
15	-.510	-.511	31.671	15	252.9	97.8		25.465	1442.6
20	-1.008	-1.009	31.818	20	239.9	98.0		25.601	1440.5
25	-1.234	-1.234	31.920	25	231.4	98.4		25.690	1439.6
30	-1.366	-1.367	32.037	30	222.0	96.3		25.788	1439.2
40	-1.415	-1.416	32.118	40	215.5	98.1		25.855	1439.3
50	-1.415	-1.416	32.293	50	202.0	98.8		25.997	1439.7
75	-1.488	-1.489	32.704	74	170.0	98.8		26.332	1440.3
100	-1.495	-1.497	32.762	99	165.3	98.6		26.380	1440.7
109	-1.495	-1.497	32.767	108	164.6	98.6		26.384	1440.9

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : IB03

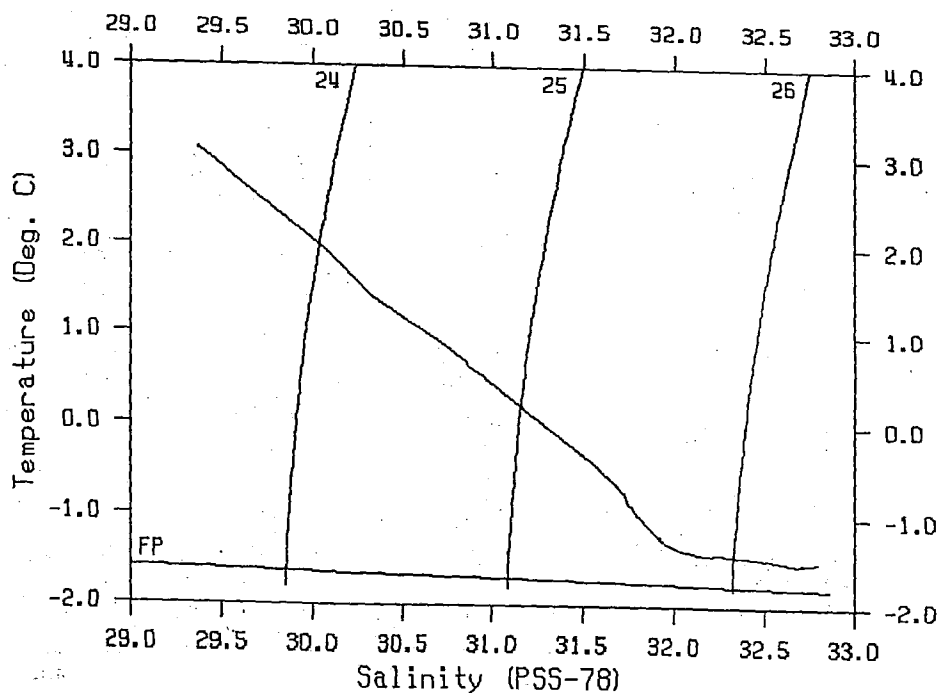
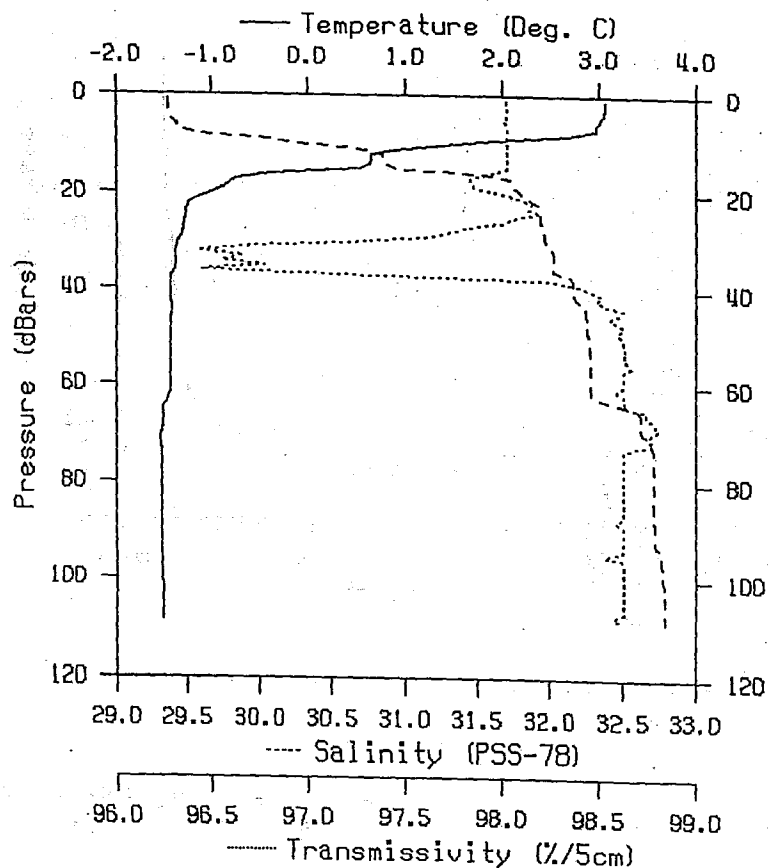
REFERENCE NO.: 95-26-009

DATE/TIME : 07/08/95 19:13 UTC

POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVR	Z Tr	Chlo	Sig-t	Sound
5	3.028	3.027	29.395	5	446.2	98.0		23.437	1455.3
7	2.964	2.964	29.439	7	442.4	98.0		23.477	1455.1
10	1.399	1.399	30.336	10	363.9	98.0		24.300	1449.5
15	.511	.511	30.951	15	312.3	98.0		24.841	1446.3
20	-.994	-.994	31.807	20	240.8	98.0		25.592	1440.5
25	-1.259	-1.259	31.936	25	230.1	98.1		25.704	1439.5
30	-1.324	-1.325	31.985	30	226.2	97.2		25.744	1439.4
40	-1.420	-1.421	32.172	40	211.4	98.5		25.899	1439.3
50	-1.416	-1.417	32.269	50	203.8	98.6		25.978	1439.6
75	-1.514	-1.515	32.712	74	169.3	98.6		26.340	1440.2
100	-1.507	-1.509	32.777	99	164.1	98.6		26.392	1440.7
109	-1.494	-1.496	32.795	108	162.7	98.6		26.406	1440.9

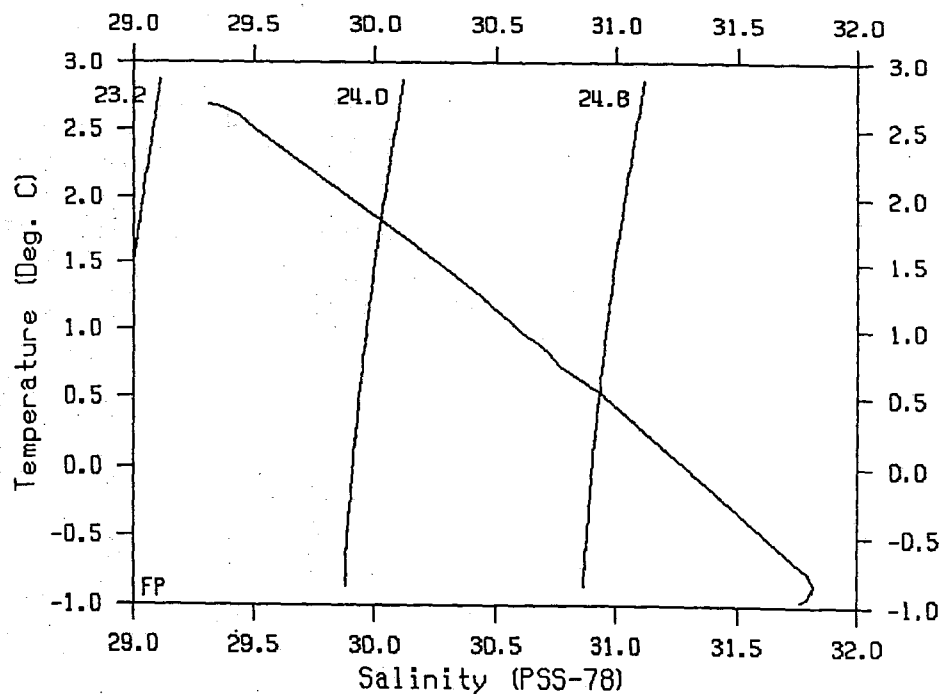
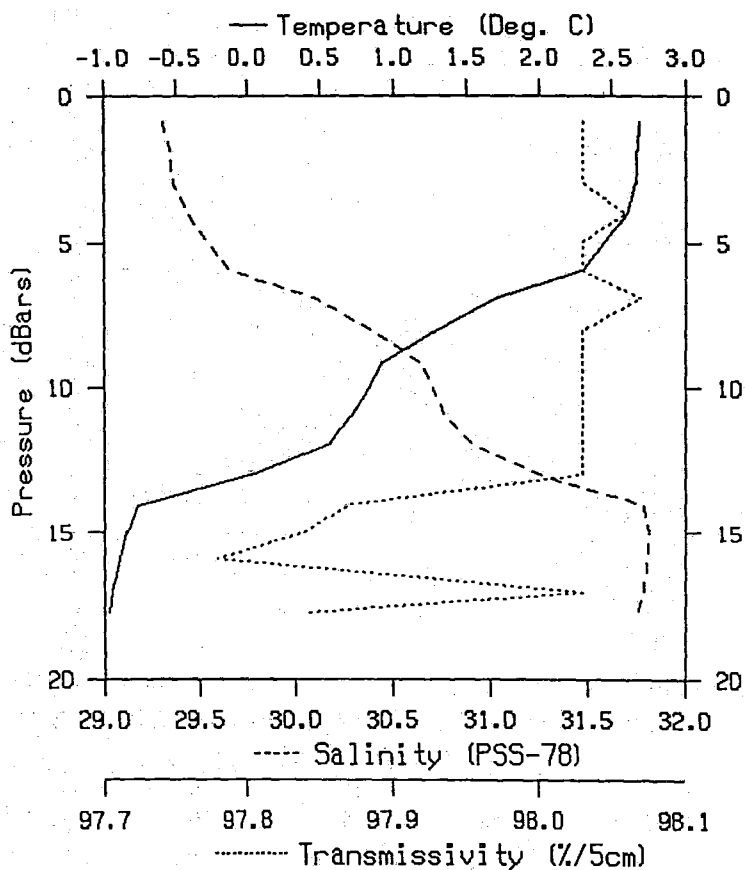
24



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : IBO4  
 REFERENCE NO.: 95-26-010  
 DATE/TIME : 07/08/95 19:33 UTC  
 POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.451	2.450	29.544	5	430.8	98.0		23.598	1453.0
7	1.689	1.689	30.122	7	381.9	98.1		24.111	1450.4
10	.840	.840	30.710	10	332.3	98.0		24.631	1447.4
15	-.835	-.836	31.816	15	240.6	97.8		25.594	1441.2
18	-.961	-.962	31.761	18	244.5	97.8		25.553	1440.6

25

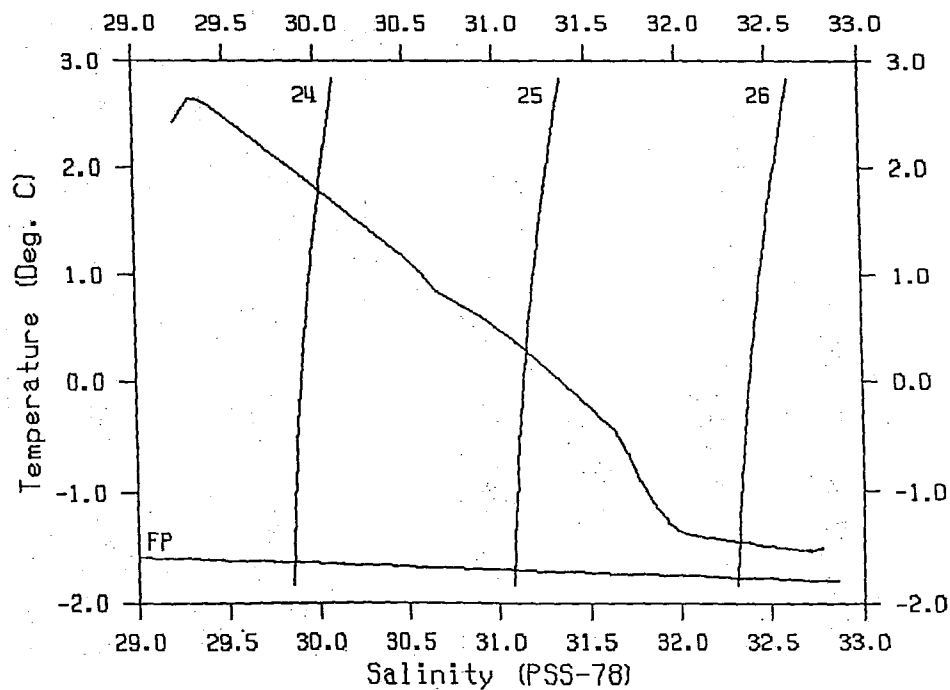
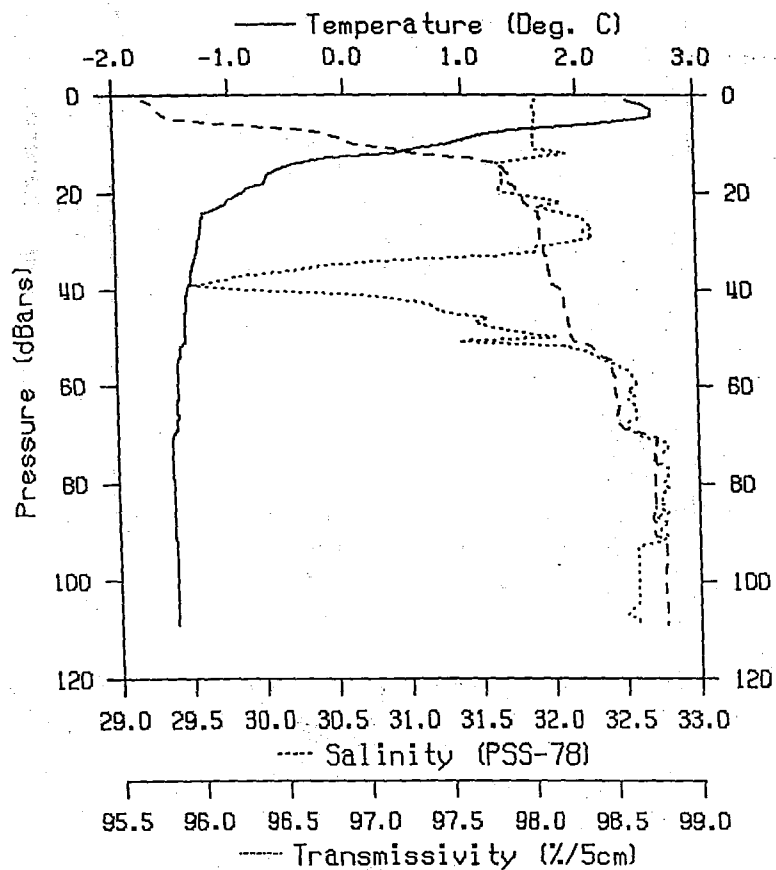




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : IB05  
 REFERENCE NO.: 95-26-011  
 DATE/TIME : 07/08/95 19:33 UTC  
 POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.527	2.526	29.462	5	437.5	98.1		23.528	1453.2
7	1.462	1.462	30.273	7	369.1	98.0		24.245	1449.6
10	.859	.859	30.662	10	336.1	98.0		24.591	1447.4
15	-.562	-.562	31.683	15	251.7	97.8		25.477	1442.3
20	-.897	-.898	31.778	20	243.3	97.8		25.565	1441.0
25	-1.242	-1.243	31.928	25	230.8	98.3		25.696	1439.6
30	-1.286	-1.287	31.950	30	228.9	98.3		25.716	1439.5
40	-1.385	-1.386	32.062	40	219.9	96.3		25.809	1439.3
50	-1.409	-1.410	32.139	50	213.9	98.2		25.872	1439.5
75	-1.531	-1.532	32.714	74	169.1	98.7		26.341	1440.1
100	-1.506	-1.508	32.762	99	165.3	98.6		26.380	1440.7
109	-1.501	-1.503	32.781	108	163.8	98.6		26.395	1440.9

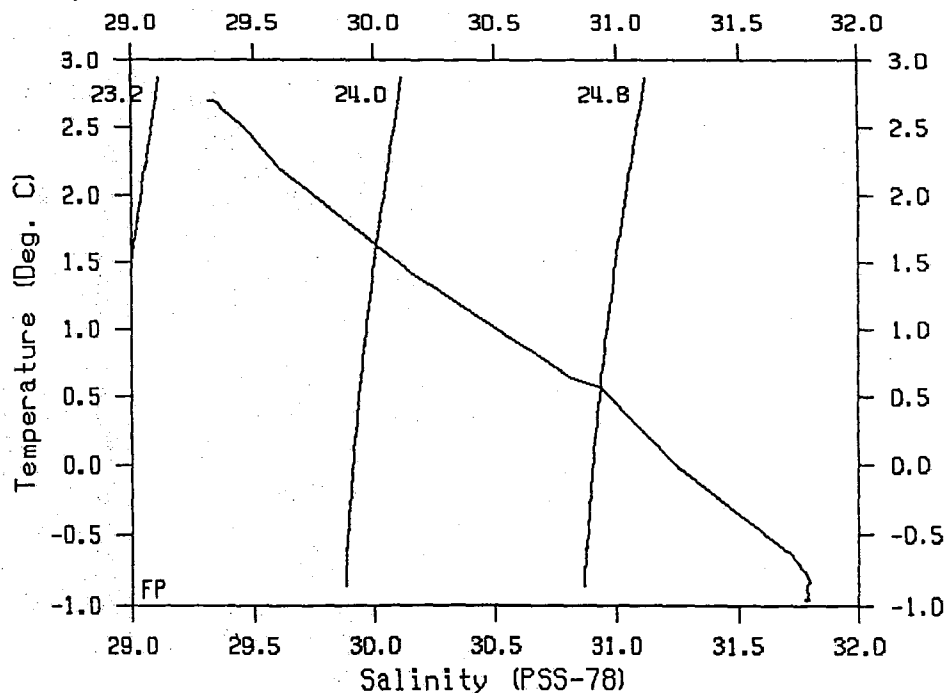
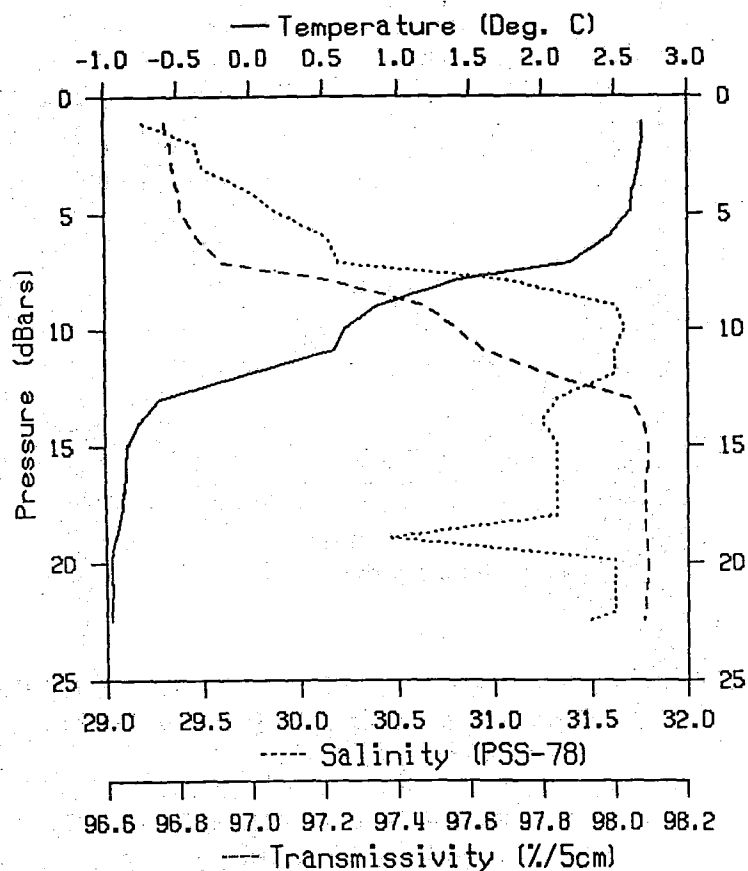
26



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : IB06  
 REFERENCE NO.: 95-26-012  
 DATE/TIME : 07/08/95 20:02 UTC  
 POSITION : 70-13.5N 066-29.0W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.596	2.596	29.400	5	442.8	97.1		23.473	1453.5
7	2.224	2.224	29.592	7	425.6	97.2		23.652	1452.1
10	.644	.644	30.811	10	323.6	98.0		24.722	1446.7
15	-.837	-.837	31.798	15	242.0	97.8		25.579	1441.2
20	-.959	-.960	31.800	20	241.4	98.0		25.585	1440.7
23	-.955	-.956	31.779	22	243.1	97.9		25.567	1440.7

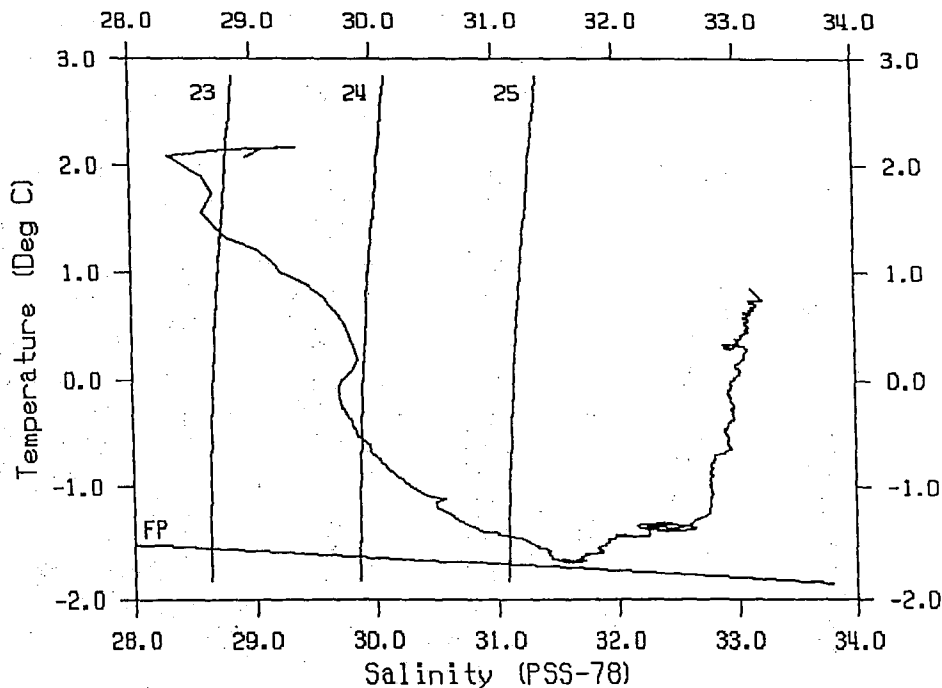
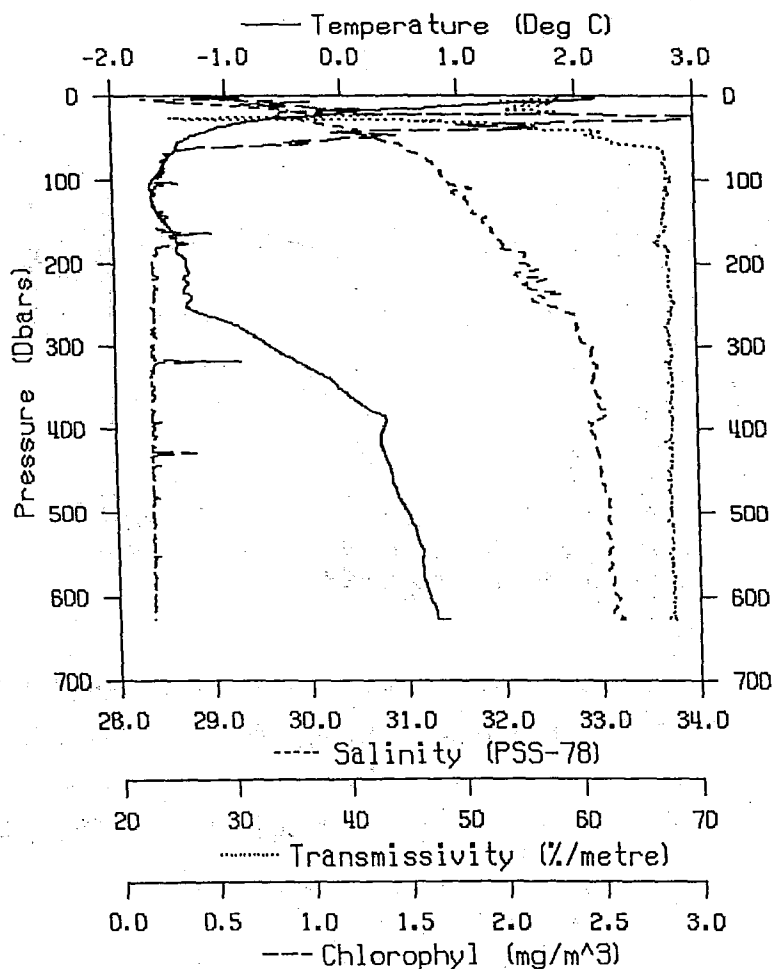
27



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : DS01  
 REFERENCE NO.: 95-26-013  
 DATE/TIME : 08/08/95 11:30 UTC  
 POSITION : 72-13.2N 071-24.5W

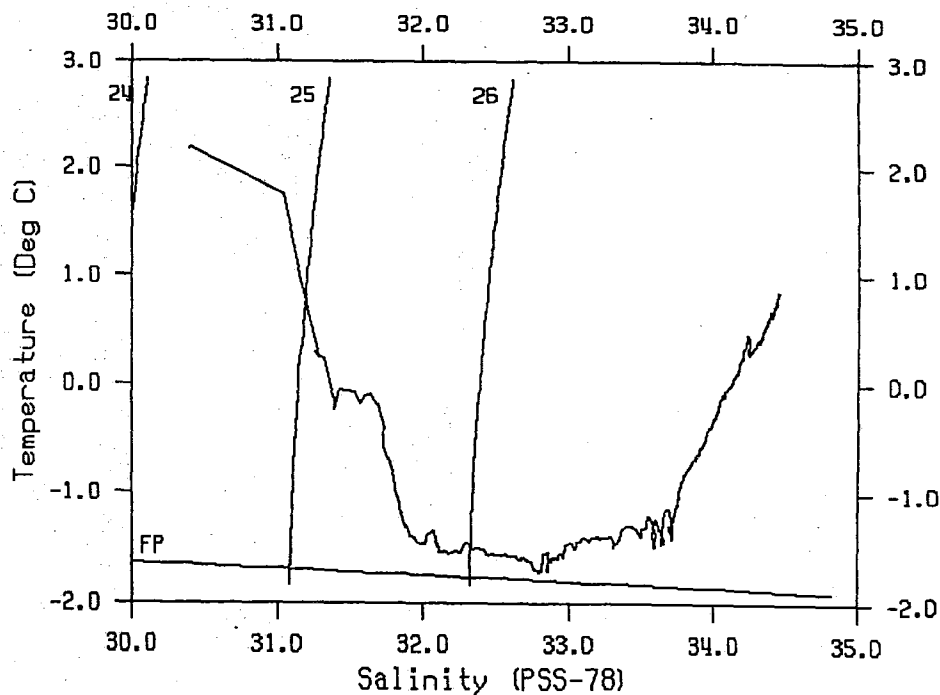
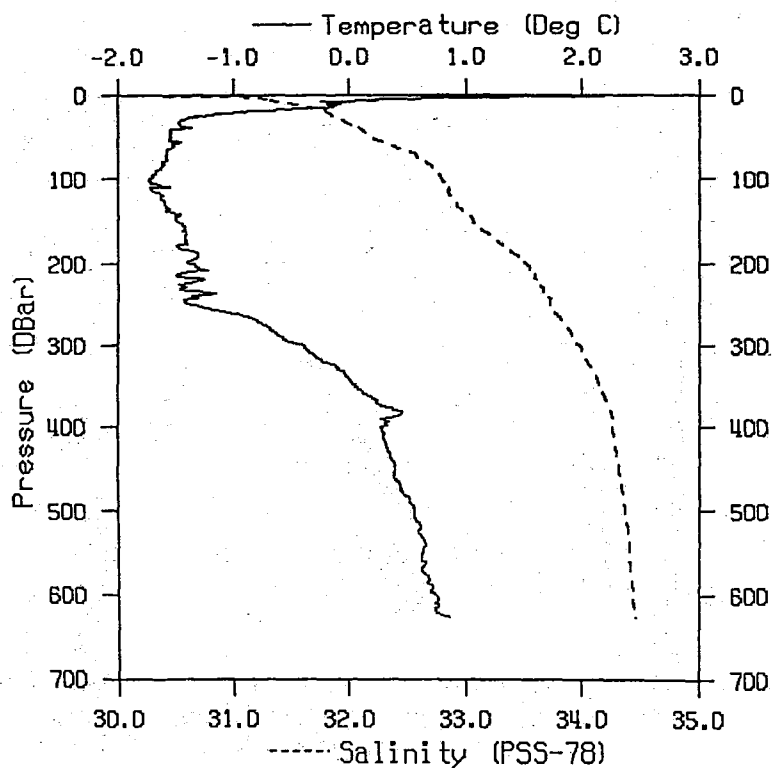
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.073	2.073	28.342	5	520.2	56.7	.52	22.663	1449.8
7	1.734	1.734	28.660	7	492.4	55.2	.81	22.954	1448.7
10	1.209	1.209	29.059	10	460.6	58.0	.68	23.286	1446.9
15	.659	.658	29.672	15	411.0	54.5	1.15	23.805	1445.3
20	.006	.005	29.733	20	403.6	58.5	1.01	23.882	1442.4
25	-.441	-.442	29.833	25	394.4	34.1	3.00	23.978	1440.6
30	-.777	-.777	30.066	30	375.5	46.3	2.42	24.175	1439.4
40	-1.125	-1.125	30.538	40	338.0	58.8	1.82	24.567	1438.5
50	-1.347	-1.348	30.759	50	320.4	62.4	1.27	24.750	1437.9
75	-1.516	-1.517	31.278	74	279.7	67.6	.28	25.176	1438.2
100	-1.641	-1.643	31.451	99	265.9	68.0	.24	25.318	1438.2
150	-1.543	-1.546	31.837	149	235.9	67.3	.26	25.630	1440.1
200	-1.372	-1.376	32.202	198	207.9	67.6	.20	25.922	1442.2
250	-1.368	-1.374	32.405	248	191.9	68.2	.19	26.087	1443.3
350	-.067	-.079	32.958	347	154.7	67.8	.20	26.487	1451.8
500	.514	.493	33.089	495	148.0	67.7	.19	26.562	1457.1
628	.854	.826	33.132	622	146.9	68.0	.18	26.577	1460.8

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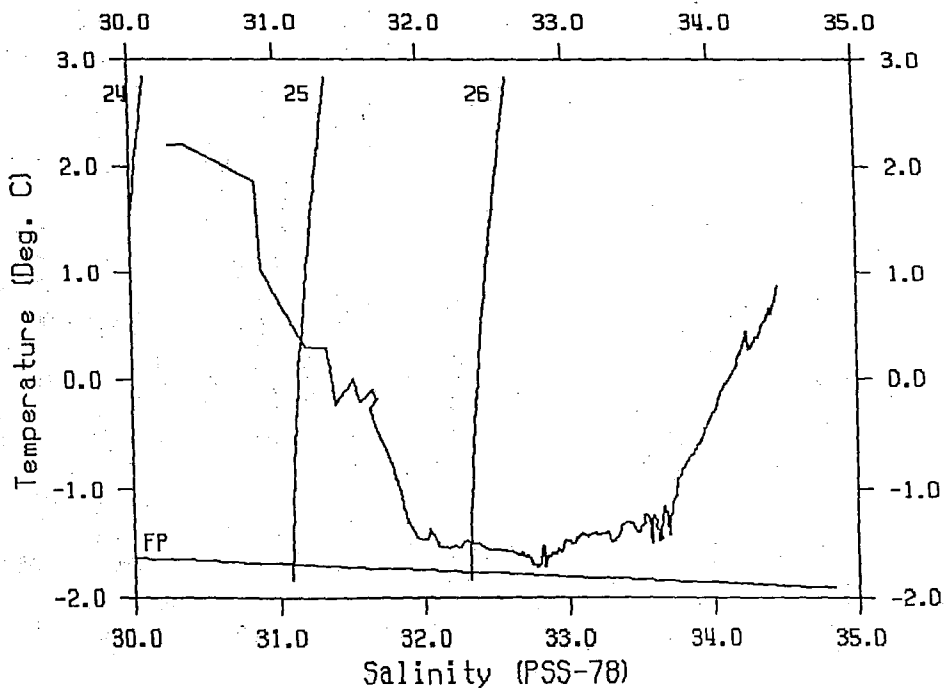
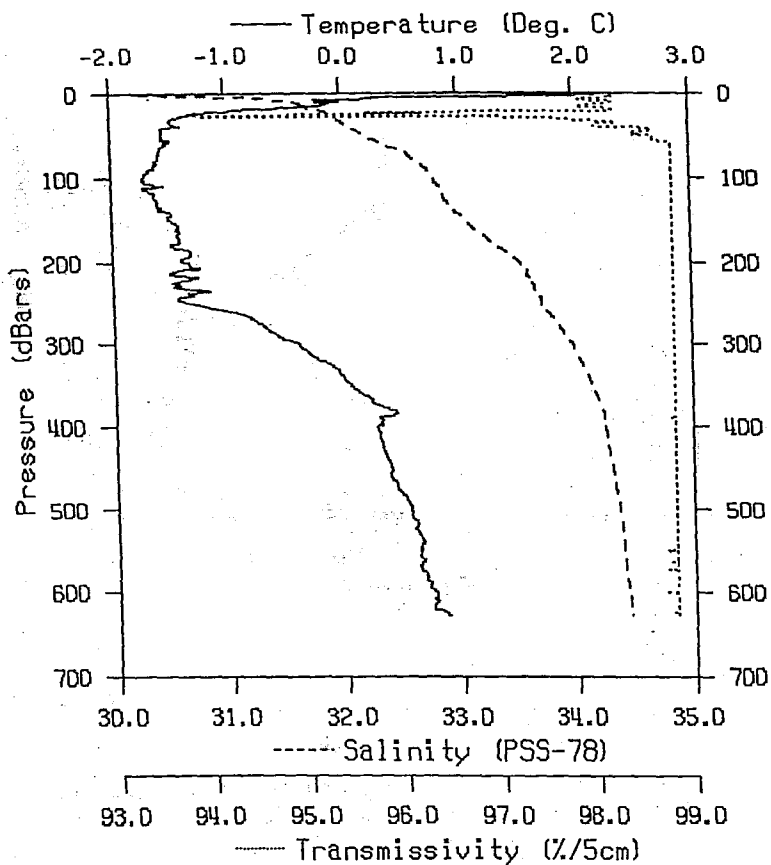
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : DSO1  
 REFERENCE NO.: 95-06-014  
 DATE/TIME : 08/08/95 11:29 UTC  
 POSITION : 72-13.2N 071-24.5W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	.291	.291	31.262	5	287.4			25.102	1445.6
7	-.107	-.107	31.391	7	275.9			25.223	1443.9
10	-.071	-.071	31.537	10	264.8			25.340	1444.3
15	-.189	-.190	31.693	15	252.3			25.471	1444.1
20	-.940	-.940	31.816	20	240.3			25.597	1440.8
25	-1.327	-1.328	31.884	25	233.9			25.663	1439.1
30	-1.446	-1.446	31.954	30	228.2			25.723	1438.7
40	-1.495	-1.496	32.104	40	216.4			25.846	1438.9
50	-1.543	-1.544	32.205	50	208.4			25.929	1438.9
75	-1.574	-1.576	32.600	74	177.8			26.250	1439.7
100	-1.724	-1.726	32.796	99	162.1			26.413	1439.7
150	-1.494	-1.497	33.062	149	141.9			26.623	1442.0
200	-1.380	-1.385	33.510	198	107.5			26.984	1443.9
250	-1.369	-1.375	33.718	248	91.3			27.153	1445.1
350	.054	.041	34.151	347	64.8			27.443	1453.9
500	.558	.536	34.376	495	50.9			27.597	1459.0
628	.859	.829	34.461	621	46.6			27.647	1462.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : DSO1  
 REFERENCE NO.: 95-26-015  
 DATE/TIME : 08/08/95 11:28 UTC  
 POSITION : 72-13.2N 071-24.5W

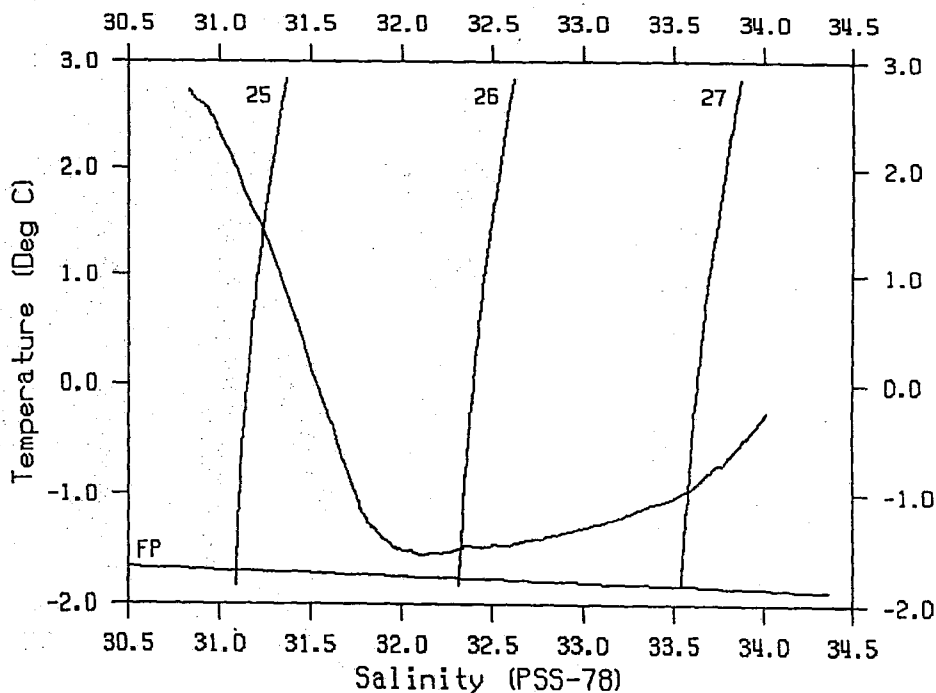
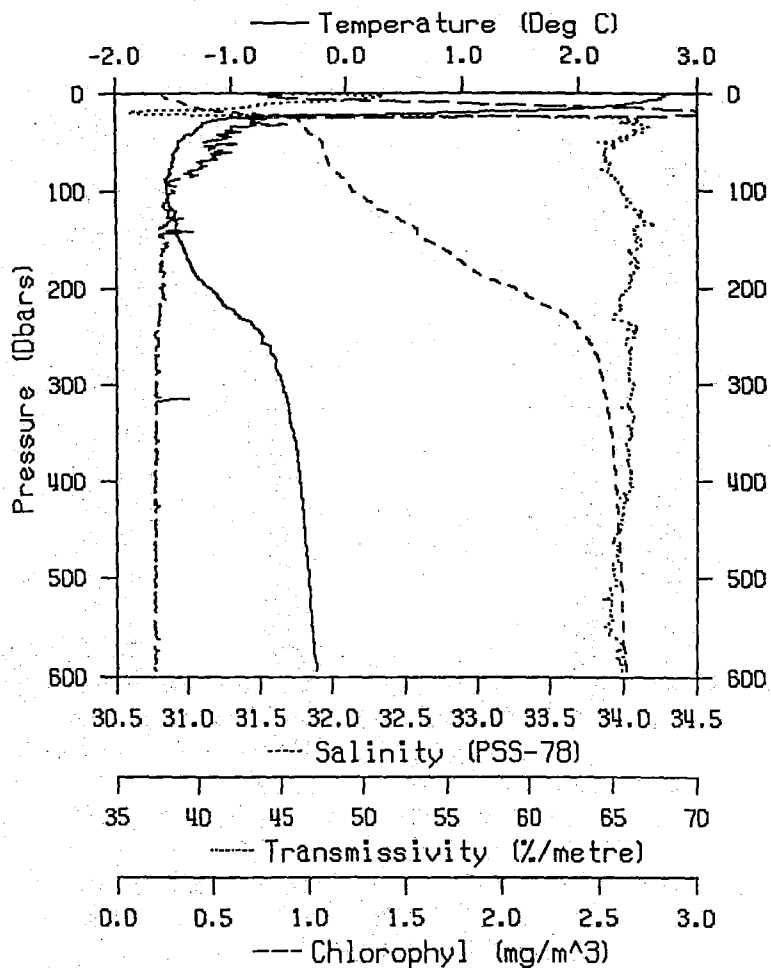
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	.316	.315	31.195	5	292.7	98.2		25.047	1445.6
7	.081	.081	31.368	7	278.4	97.9		25.197	1444.8
10	-.006	-.006	31.533	10	265.4	98.2		25.334	1444.6
15	-.179	-.179	31.692	15	252.5	97.9		25.469	1444.1
20	-.699	-.900	31.818	20	240.3	98.2		25.597	1441.0
25	-1.309	-1.310	31.900	25	232.8	95.7		25.675	1439.2
30	-1.441	-1.442	31.964	30	227.4	97.6		25.731	1438.8
40	-1.496	-1.497	32.094	40	217.2	98.1		25.837	1438.9
50	-1.544	-1.545	32.207	50	208.3	98.6		25.930	1438.9
75	-1.578	-1.579	32.592	74	178.3	98.8		26.244	1439.7
100	-1.727	-1.729	32.784	99	163.0	98.8		26.403	1439.6
150	-1.491	-1.494	33.051	149	142.8	98.8		26.614	1442.0
200	-1.354	-1.359	33.505	198	108.0	98.8		26.979	1444.0
250	-1.346	-1.352	33.707	248	92.3	98.8		27.143	1445.2
350	.054	.041	34.141	347	65.5	98.8		27.436	1453.9
500	.553	.531	34.366	495	51.7	98.8		27.589	1459.0
629	.878	.848	34.455	622	47.4	98.8		27.641	1462.7



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : L001  
 REFERENCE NO.: 95-26-017  
 DATE/TIME : 10/08/95 14:30 UTC  
 POSITION : 73-28.2N 085-.9W

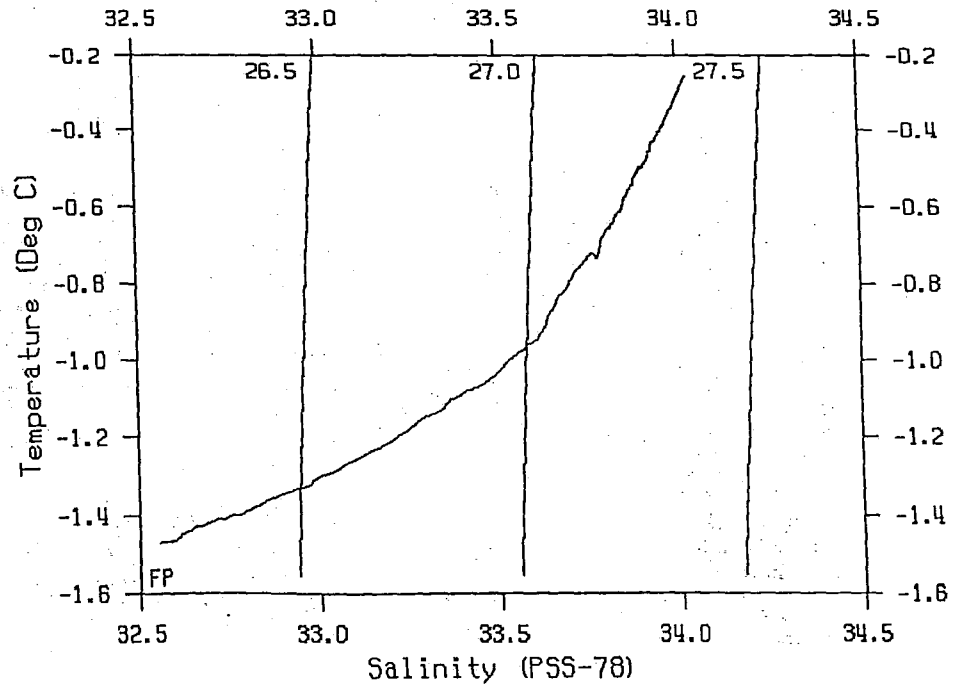
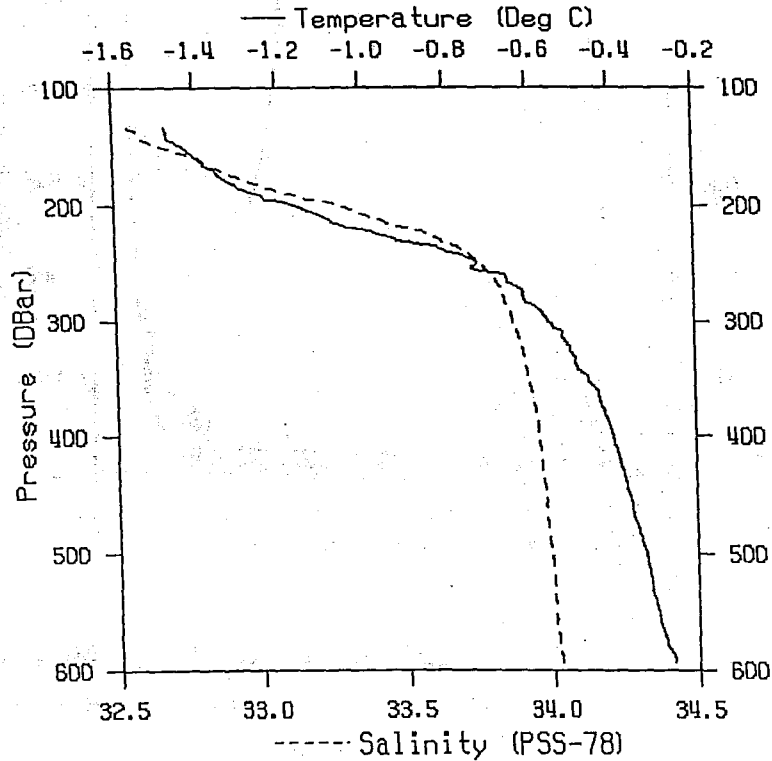
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.696	2.696	30.848	5	333.2	50.8	.85	24.622	1455.8
7	2.587	2.587	30.918	7	327.1	48.9	1.27	24.686	1455.4
10	2.431	2.431	30.979	10	321.3	44.9	1.76	24.747	1454.9
15	2.076	2.075	31.071	15	311.9	42.7	2.71	24.846	1453.5
20	.984	.983	31.338	20	285.0	36.0	3.00	25.128	1449.1
25	-.968	-.969	31.740	25	246.0	63.5	1.19	25.536	1440.6
30	-1.218	-1.219	31.803	30	240.4	65.4	.70	25.594	1439.6
40	-1.304	-1.305	31.841	40	237.2	66.8	.65	25.628	1439.4
50	-1.447	-1.448	31.935	50	229.5	64.7	.46	25.707	1439.0
75	-1.497	-1.499	31.988	74	225.1	64.6	.48	25.751	1439.3
100	-1.549	-1.551	32.142	99	212.9	65.6	.31	25.878	1439.6
150	-1.441	-1.444	32.645	149	174.1	66.6	.26	26.283	1441.6
200	-1.177	-1.181	33.260	198	127.4	65.8	.24	26.774	1444.5
250	-.728	-.736	33.749	248	91.6	66.9	.21	27.154	1448.1
350	-.462	-.473	33.914	347	80.0	66.1	.20	27.277	1451.2
500	-.325	-.343	33.984	495	75.0	65.1	.21	27.327	1454.4
593	-.260	-.282	34.014	587	72.9	65.6	.21	27.348	1456.3

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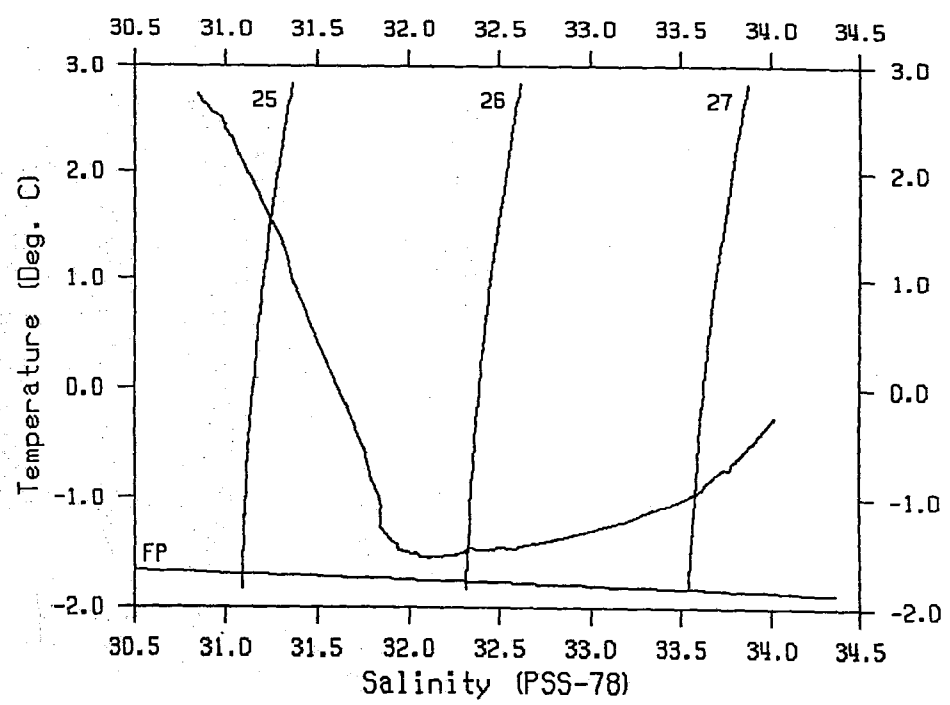
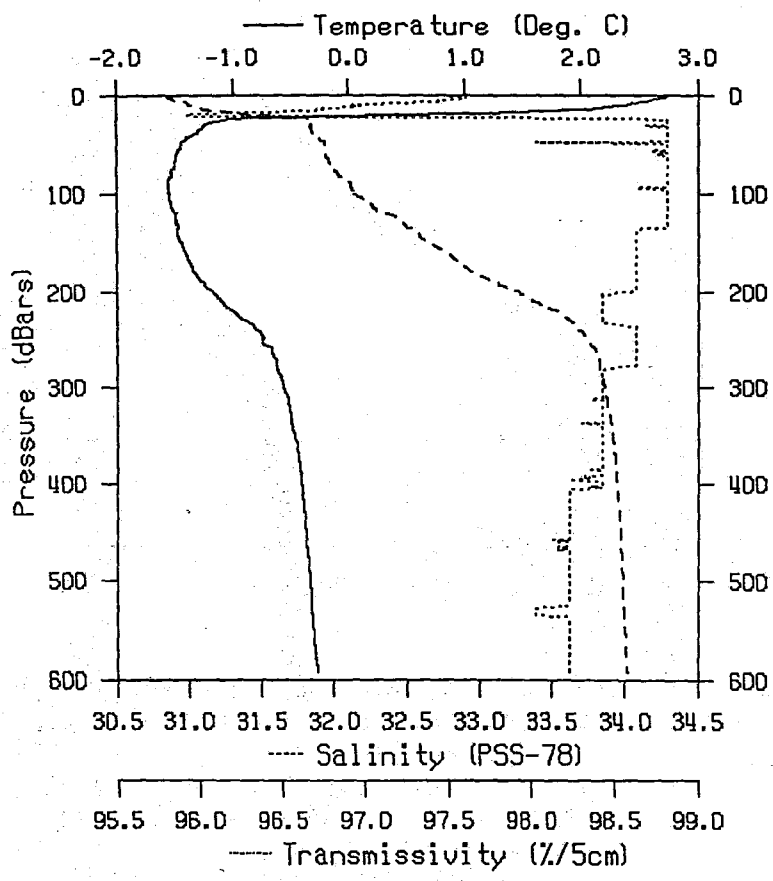
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : L001  
 REFERENCE NO.: 95-06-018  
 DATE/TIME : 10/08/95 14:47 UTC  
 POSITION : 73-28.2N 085- .9W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
150	-1.429	-1.432	32.663	148	172.7		26.298	1441.7
200	-1.158	-1.163	33.279	198	126.0		26.790	1444.7
250	-.721	-.728	33.761	247	90.7		27.164	1448.2
350	-.457	-.469	33.926	346	79.0		27.287	1451.3
500	-.321	-.339	33.997	495	74.0		27.338	1454.5
594	-.257	-.279	34.027	587	71.9		27.359	1456.3



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : LD01  
 REFERENCE NO.: 95-26-019  
 DATE/TIME : 10/08/95 14:34 UTC  
 POSITION : 73-28.2N 085- .9W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.591	2.590	30.916	5	327.3	97.5		24.684	1455.4
7	2.518	2.517	30.976	7	322.2	97.3		24.737	1455.2
10	2.398	2.397	31.004	10	319.3	96.9		24.768	1454.8
15	1.979	1.979	31.129	15	306.8	96.8		24.899	1453.2
20	.451	.450	31.498	20	270.0	95.9		25.285	1446.9
25	-1.081	-1.081	31.854	25	236.9	98.8		25.632	1440.3
30	-1.227	-1.227	31.847	30	237.0	98.8		25.630	1439.6
40	-1.332	-1.333	31.878	40	234.3	98.8		25.658	1439.3
50	-1.443	-1.444	31.938	50	229.3	98.8		25.710	1439.1
75	-1.509	-1.510	31.999	74	224.2	98.8		25.761	1439.2
100	-1.540	-1.542	32.143	99	212.8	98.8		25.878	1439.7
150	-1.432	-1.435	32.657	149	173.2	98.6		26.293	1441.7
200	-1.156	-1.161	33.281	198	125.9	98.5		26.791	1444.7
250	-.727	-.734	33.754	248	91.2	98.6		27.159	1448.2
350	-.462	-.473	33.917	347	79.7	98.4		27.280	1451.2
500	-.324	-.342	33.988	495	74.7	98.2		27.331	1454.4
593	-.261	-.283	34.020	587	72.4	98.2		27.354	1456.3



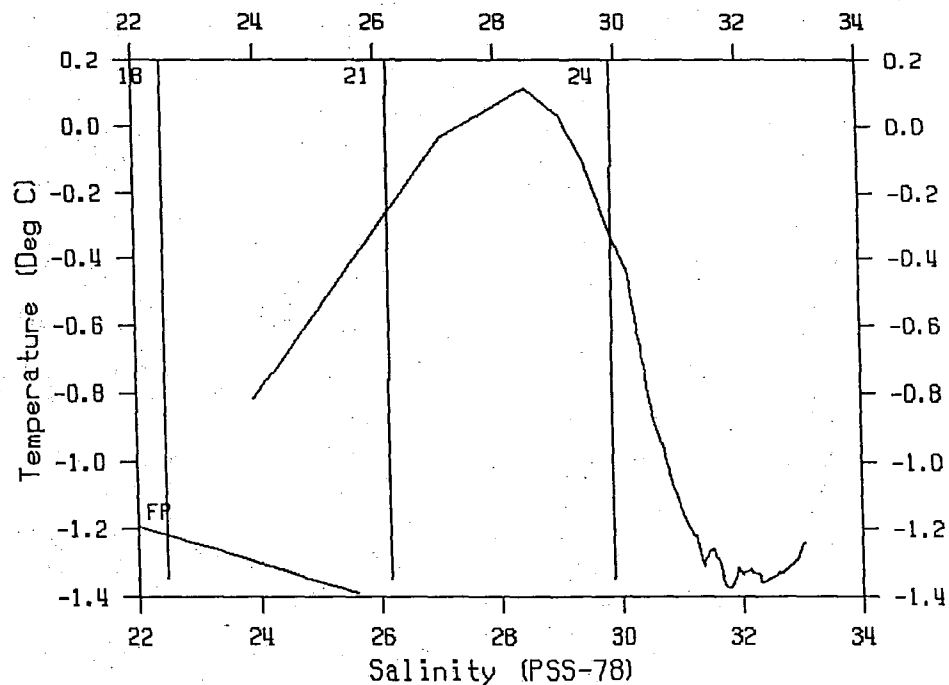
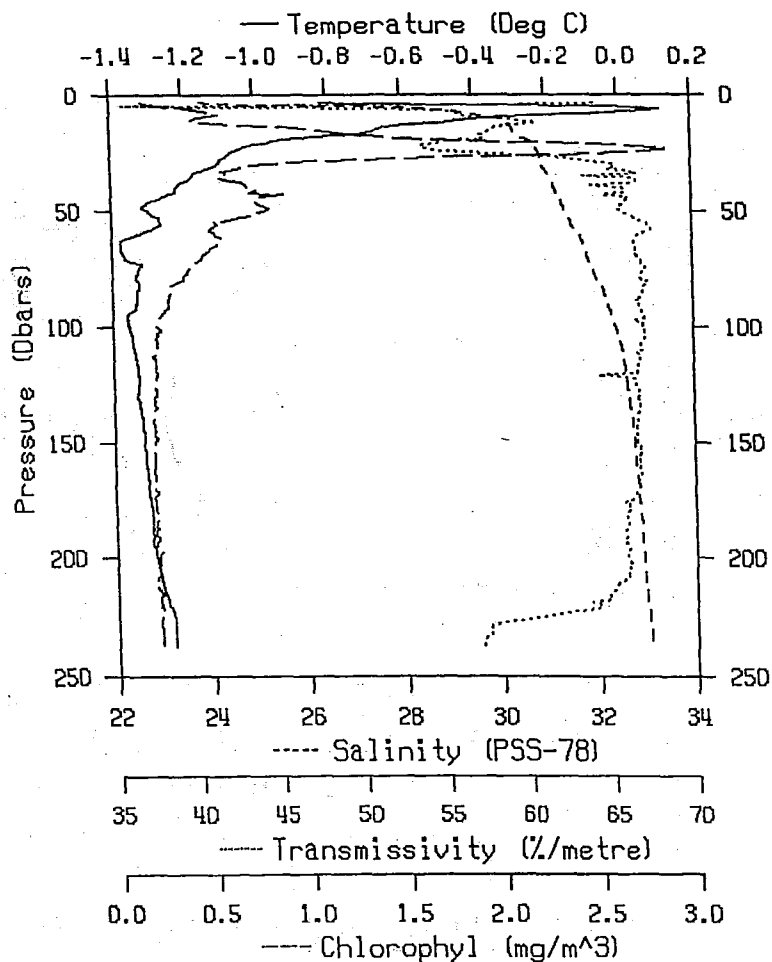
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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : PS01  
 REFERENCE NO.: 95-26-020  
 DATE/TIME : 12/08/95 15:41 UTC  
 POSITION : 73-21.7N 096- 1.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.041	-.041	27.044	5	610.8	36.1	.25	21.715	1438.4
7	.037	.037	29.010	7	459.5	55.8	.49	23.298	1441.4
10	-.363	-.363	29.976	10	383.7	58.3	.47	24.091	1440.9
15	-.658	-.658	30.357	15	353.5	58.1	1.01	24.408	1440.1
20	-.947	-.947	30.705	20	325.8	55.4	1.89	24.698	1439.3
25	-1.062	-1.063	30.858	25	313.6	56.6	2.59	24.825	1439.0
30	-1.097	-1.097	30.933	30	307.8	65.4	.82	24.886	1439.0
40	-1.216	-1.217	31.192	40	287.4	65.8	.71	25.099	1439.0
50	-1.296	-1.296	31.384	50	272.3	65.8	.80	25.257	1439.0
75	-1.323	-1.324	31.957	74	227.9	67.3	.41	25.722	1440.1
100	-1.352	-1.354	32.417	99	192.3	67.0	.23	26.096	1440.9
150	-1.316	-1.320	32.760	149	165.6	66.6	.21	26.374	1442.4
200	-1.289	-1.294	32.928	198	152.4	65.9	.22	26.509	1443.6
238	-1.240	-1.246	33.042	236	143.6	57.2	.23	26.600	1444.6

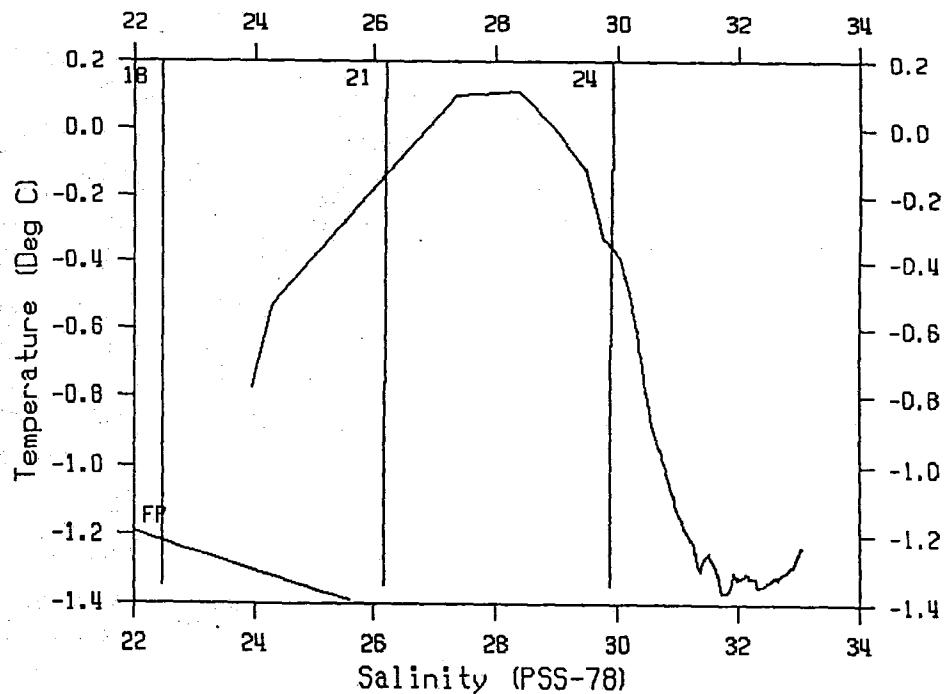
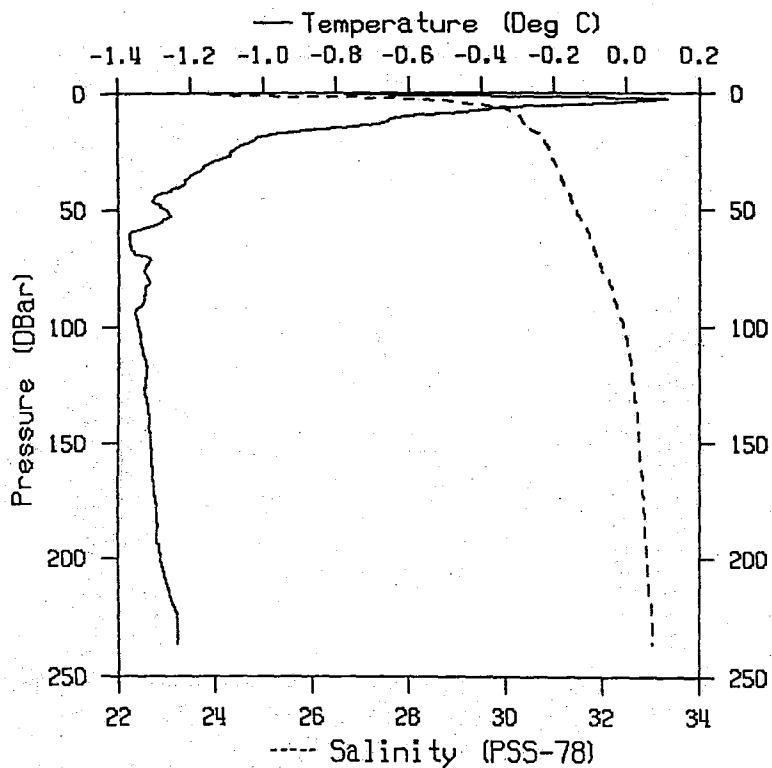
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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : PS01  
 REFERENCE NO.: 95-06-021  
 DATE/TIME : 12/08/95 15:49 UTC  
 POSITION : 73-21.7N 096- 1.7W

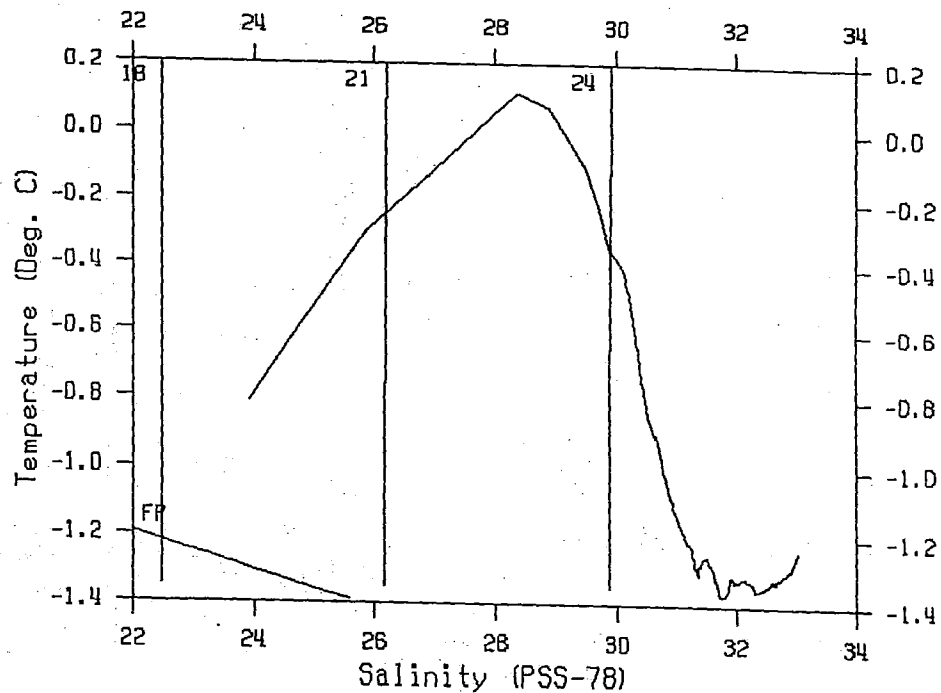
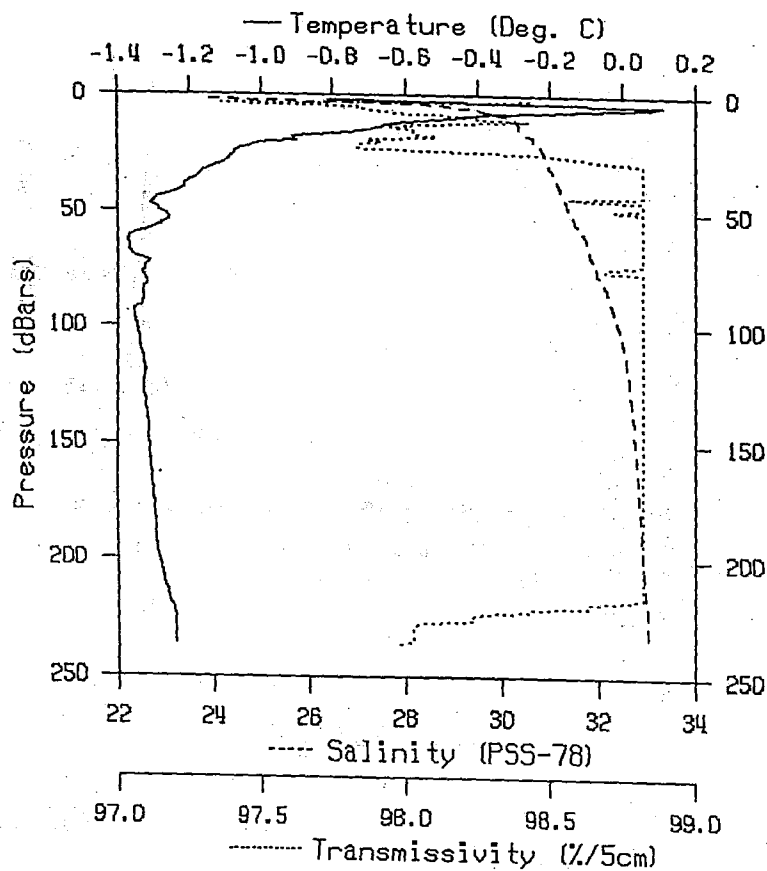
Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	-.132	-.132	29.482	5	422.6			23.664	1441.2
7	-.388	-.388	30.047	7	378.2			24.149	1440.8
10	-.610	-.610	30.315	10	356.9			24.372	1440.2
15	-.794	-.794	30.470	15	344.4			24.503	1439.6
20	-1.022	-1.022	30.811	20	317.5			24.785	1439.1
25	-1.083	-1.084	30.913	25	309.4			24.869	1439.0
30	-1.145	-1.145	31.029	30	300.2			24.965	1438.9
40	-1.224	-1.225	31.256	40	282.5			25.151	1439.0
50	-1.265	-1.266	31.446	50	267.6			25.306	1439.2
75	-1.322	-1.323	31.978	74	226.3			25.739	1440.1
100	-1.342	-1.344	32.446	99	190.0			26.119	1441.0
150	-1.309	-1.312	32.778	149	164.3			26.387	1442.5
200	-1.280	-1.284	32.940	198	151.5			26.518	1443.6
237	-1.235	-1.240	33.048	235	143.2			26.604	1444.6

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : PS01  
 REFERENCE NO.: 95-26-022  
 DATE/TIME : 12/08/95 15:41 UTC  
 POSITION : 73-21.7N 096- 1.7W

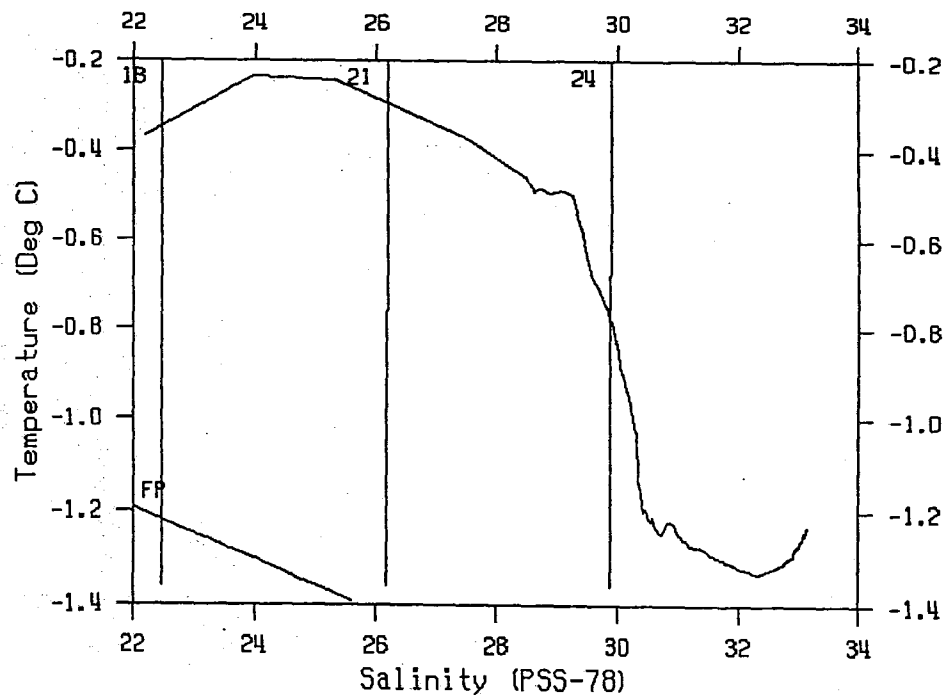
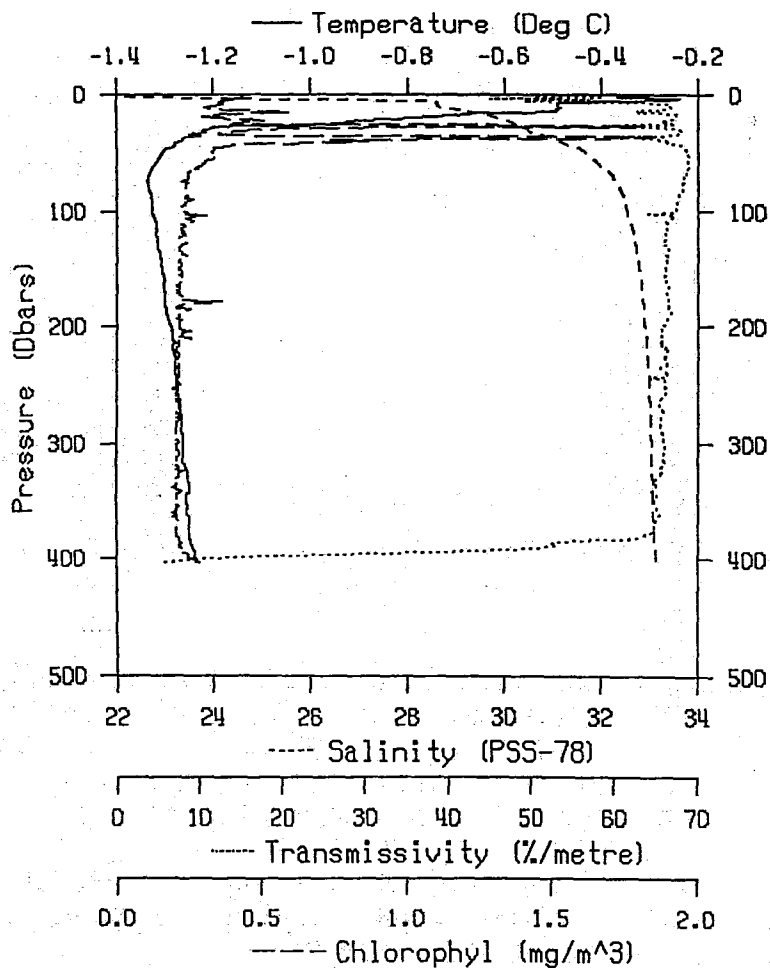
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	.060	.060	28.915	5	466.9	97.8		23.220	1441.4
7	-.215	-.215	29.681	7	406.9	97.9		23.848	1441.1
10	-.468	-.468	30.181	10	367.7	98.2		24.260	1440.7
15	-.700	-.701	30.393	15	350.5	98.0		24.438	1439.9
20	-.977	-.977	30.749	20	322.4	97.9		24.734	1439.2
25	-1.073	-1.074	30.895	25	310.8	98.4		24.855	1439.0
30	-1.122	-1.122	30.981	30	304.0	98.8		24.926	1439.0
40	-1.215	-1.215	31.223	40	285.0	98.8		25.124	1439.0
50	-1.280	-1.281	31.410	50	270.4	98.8		25.277	1439.1
75	-1.323	-1.324	31.965	74	227.3	98.7		25.729	1440.1
100	-1.346	-1.348	32.429	99	191.4	98.8		26.105	1441.0
150	-1.311	-1.314	32.760	149	165.6	98.8		26.373	1442.4
200	-1.282	-1.287	32.927	198	152.5	98.8		26.508	1443.6
237	-1.236	-1.242	33.035	235	144.2	98.0		26.594	1444.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : PS02  
 REFERENCE NO.: 95-26-023  
 DATE/TIME : 12/08/95 22:11 UTC  
 POSITION : 72- 6.6N 095-56.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.377	-.377	27.562	5	569.9	49.3	.37	22.142	1437.5
7	-.481	-.481	28.622	7	487.9	63.7	.39	23.000	1438.5
10	-.486	-.486	28.617	10	488.1	66.7	.33	22.997	1438.5
15	-.576	-.576	29.401	15	427.4	63.0	.59	23.633	1439.2
20	-.784	-.784	29.916	20	387.1	67.4	.36	24.054	1439.0
25	-.979	-.979	30.244	25	361.2	66.9	.41	24.325	1438.6
30	-1.214	-1.215	30.504	30	340.6	67.9	.54	24.541	1437.9
40	-1.266	-1.266	31.161	40	289.7	66.3	.87	25.075	1438.7
50	-1.301	-1.302	31.708	50	247.3	68.7	.34	25.520	1439.4
75	-1.334	-1.335	32.335	74	198.8	68.4	.25	26.029	1440.5
100	-1.323	-1.325	32.550	99	182.1	67.4	.24	26.203	1441.3
150	-1.303	-1.306	32.798	149	162.7	66.2	.22	26.404	1442.5
200	-1.284	-1.288	32.909	198	153.9	65.6	.22	26.493	1443.6
250	-1.272	-1.278	33.000	248	146.7	66.3	.23	26.567	1444.6
350	-1.252	-1.260	33.079	347	140.0	64.8	.22	26.631	1446.4
404	-1.234	-1.244	33.126	400	136.2	6.0	.29	26.668	1447.4

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

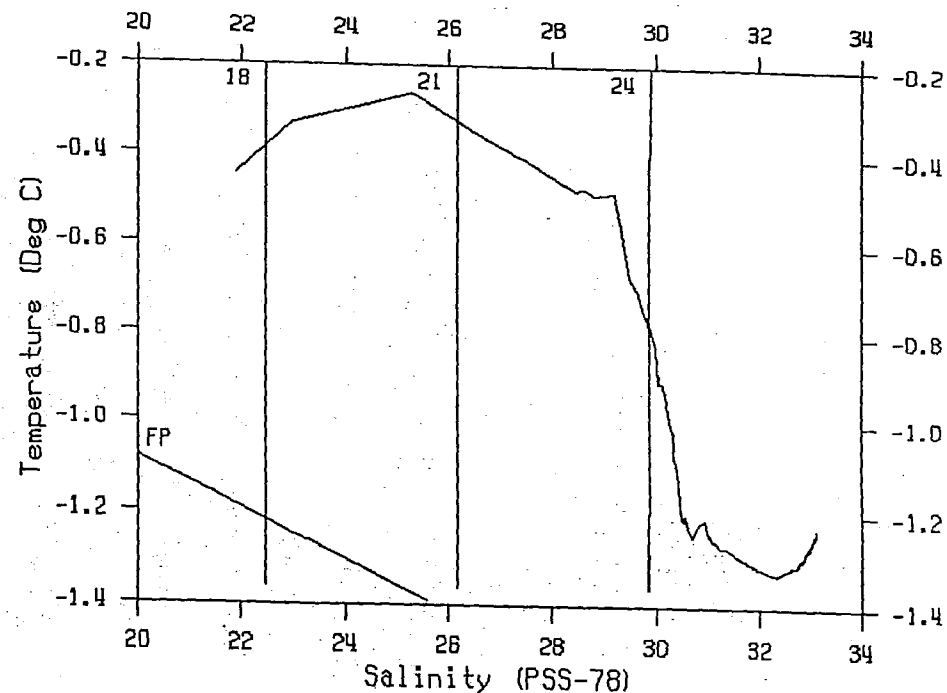
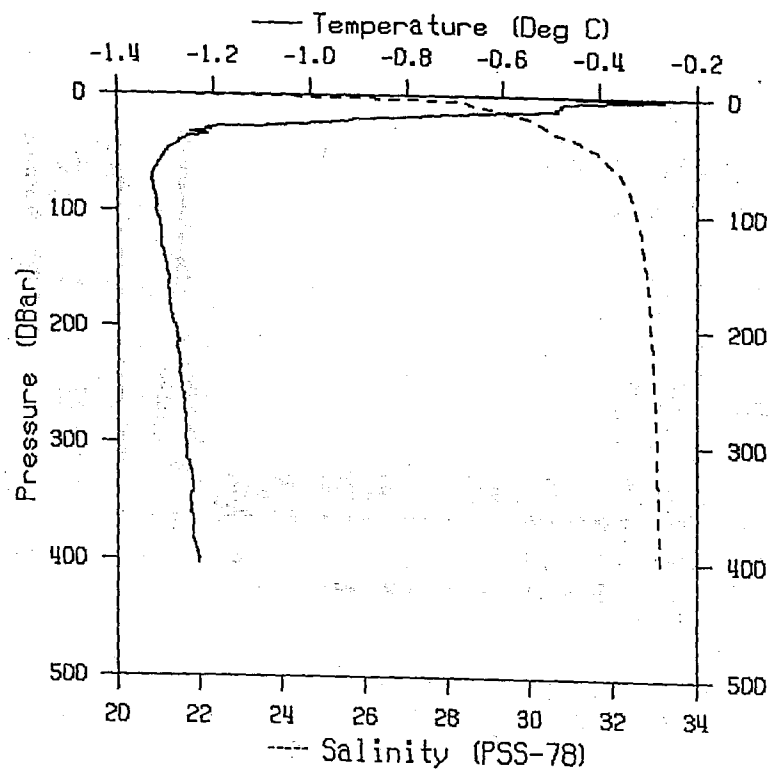
STATION : PS02

REFERENCE NO.: 95-06-024

DATE/TIME : 12/08/95 22:19 UTC

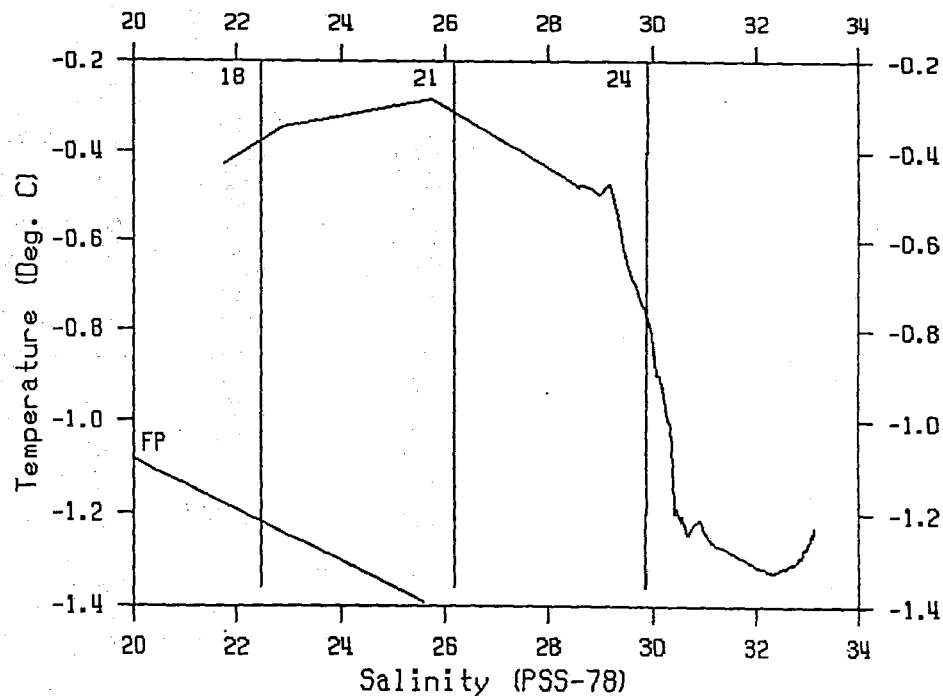
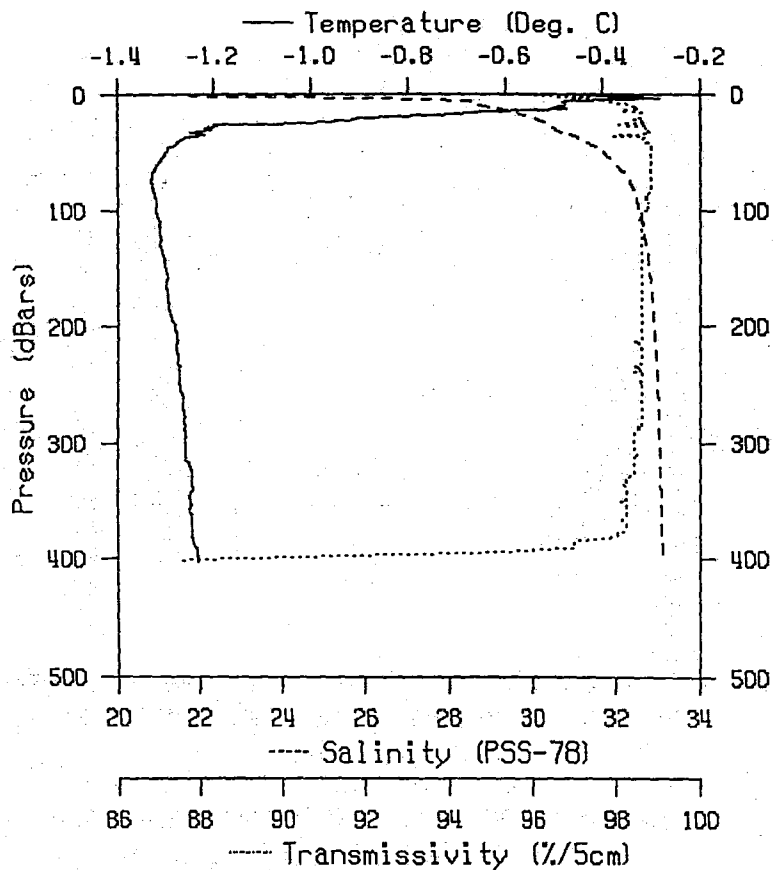
POSITION : 72- 6.6N 095-56.6W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.468	-.468	28.289	5	513.6			22.731	1438.1
7	-.475	-.475	28.549	7	493.5			22.941	1438.4
10	-.489	-.489	28.829	10	471.8			23.168	1438.8
15	-.681	-.681	29.567	15	414.3			23.770	1438.9
20	-.908	-.908	30.067	20	375.2			24.180	1438.6
25	-1.075	-1.076	30.343	25	353.4			24.407	1438.3
30	-1.202	-1.203	30.559	30	336.3			24.586	1438.0
40	-1.270	-1.271	31.255	40	262.5			25.151	1438.8
50	-1.299	-1.300	31.753	50	243.9			25.556	1439.5
75	-1.327	-1.329	32.342	74	198.3			26.034	1440.6
100	-1.317	-1.320	32.553	99	181.9			26.205	1441.3
150	-1.297	-1.301	32.797	149	162.8			26.403	1442.5
200	-1.260	-1.284	32.911	198	153.8			26.495	1443.6
250	-1.266	-1.272	32.999	248	146.8			26.566	1444.6
350	-1.247	-1.255	33.078	347	140.1			26.629	1446.4
404	-1.230	-1.240	33.127	400	136.1			26.669	1447.4



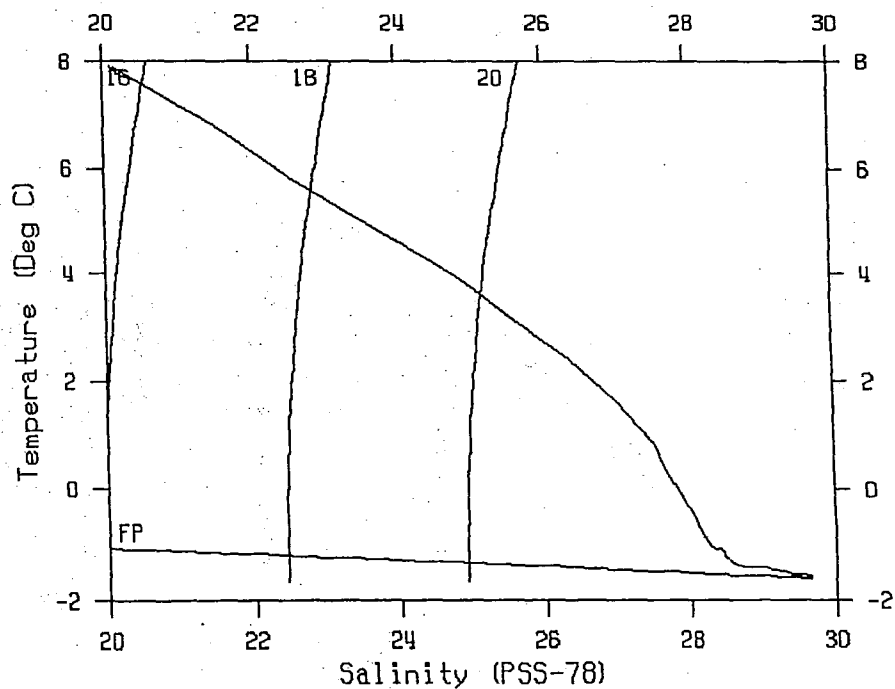
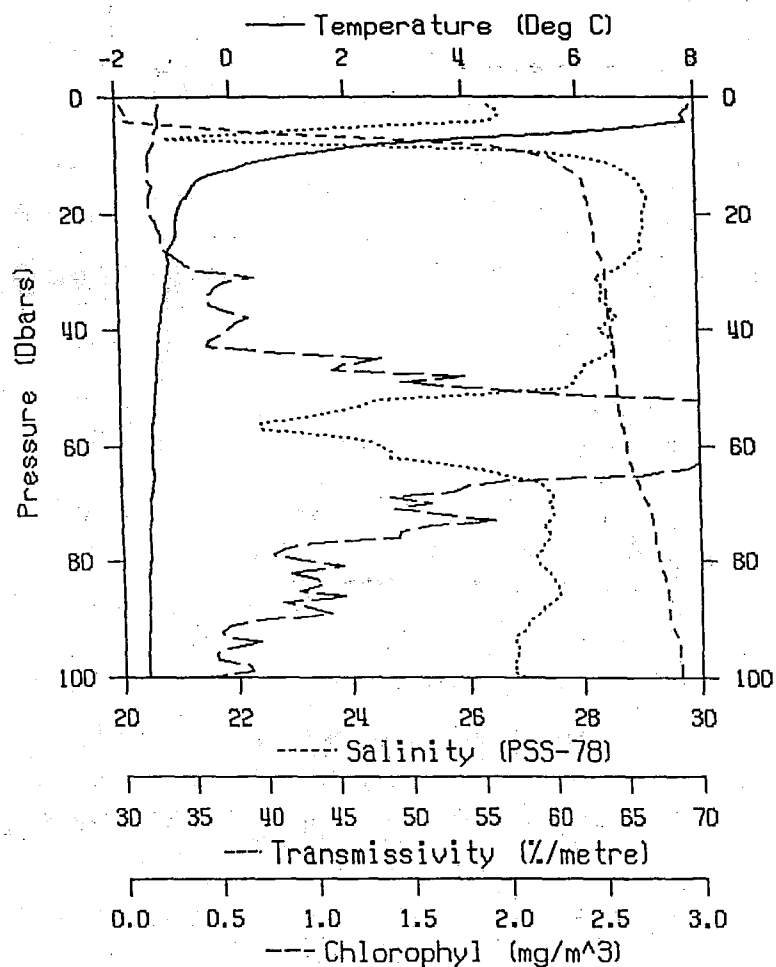
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : PS02  
 REFERENCE NO.: 95-26-025  
 DATE/TIME : 12/08/95 22:17 UTC  
 POSITION : 72- 6.6N 095-56.6W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	-.441	-.441	28.089	5	529.1	97.8		22.569	1437.9
7	-.461	-.461	28.616	7	468.3	97.9		22.995	1438.5
10	-.481	-.482	28.830	10	471.7	98.5		23.169	1438.8
15	-.674	-.674	29.556	15	415.2	98.5		23.760	1438.9
20	-.894	-.895	30.065	20	375.3	98.6		24.178	1438.7
25	-1.105	-1.105	30.381	25	350.4	98.1		24.439	1438.2
30	-1.206	-1.206	30.566	30	335.8	98.8		24.591	1438.0
40	-1.271	-1.271	31.255	40	282.5	98.7		25.151	1438.8
50	-1.299	-1.300	31.750	50	244.2	98.8		25.553	1439.5
75	-1.327	-1.329	32.338	74	198.6	98.8		26.031	1440.6
100	-1.318	-1.321	32.549	99	182.2	98.7		26.202	1441.3
150	-1.299	-1.302	32.793	149	163.1	98.6		26.400	1442.5
200	-1.279	-1.284	32.905	198	154.2	98.6		26.490	1443.6
250	-1.268	-1.274	32.997	248	146.9	98.6		26.564	1444.6
350	-1.247	-1.255	33.075	347	140.4	98.1		26.626	1446.4
403	-1.230	-1.240	33.125	399	136.3	87.5		26.667	1447.4



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : VS01  
 REFERENCE NO.: 95-26-026  
 DATE/TIME : 13/08/95 21:40 UTC  
 POSITION : 68-42.8N 102-36.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	6.902	6.902	21.430	5	1085.3	46.8	.23	16.787	1461.4
7	3.972	3.972	24.787	7	804.2	33.8	.21	19.701	1453.5
10	.895	.895	27.484	10	580.0	62.1	.17	22.036	1443.4
15	-.644	-.645	28.104	15	527.3	66.3	.19	22.586	1437.1
20	-.917	-.917	28.221	20	517.7	66.4	.18	22.686	1436.1
25	-1.003	-1.004	28.274	25	513.4	66.2	.23	22.730	1435.8
30	-1.118	-1.119	28.431	30	500.9	64.3	.42	22.860	1435.5
40	-1.277	-1.277	28.520	40	493.7	63.2	.57	22.934	1435.1
50	-1.359	-1.359	28.603	50	487.0	60.5	1.84	23.003	1434.9
75	-1.495	-1.495	29.221	75	438.6	59.6	1.45	23.506	1435.5
100	-1.577	-1.578	29.668	99	403.7	57.8	.46	23.869	1436.1



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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : VSO1

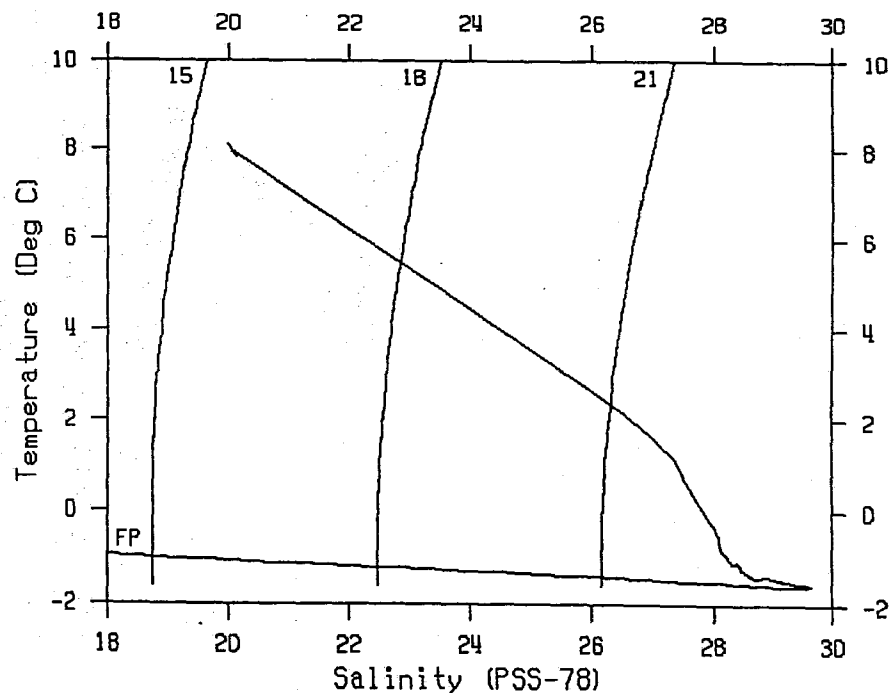
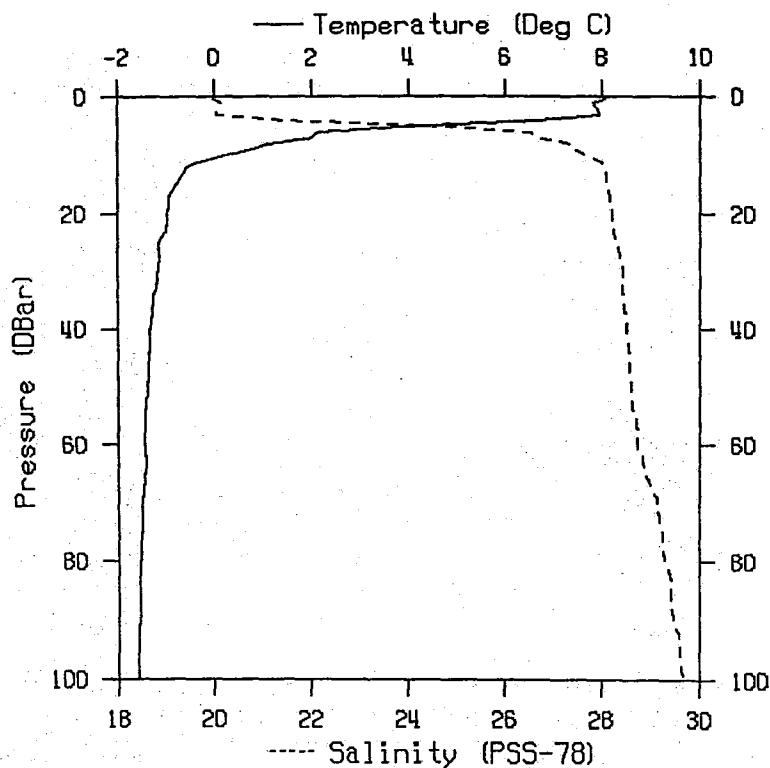
REFERENCE NO.: 95-06-027

DATE/TIME : 13/08/95 21:42 UTC

POSITION : 68-42.8N 102-36.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.894	3.894	24.600	5	818.0			19.558	1452.9
7	1.934	1.933	26.733	7	642.5			21.384	1447.1
10	.224	.224	27.732	10	558.5			22.261	1440.6
15	-.746	-.746	28.108	15	526.8			22.591	1436.7
20	-.950	-.951	28.227	20	517.2			22.692	1435.9
25	-1.122	-1.122	28.319	25	509.7			22.769	1435.3
30	-1.144	-1.145	28.436	30	500.5			22.864	1435.4
40	-1.301	-1.302	28.531	40	492.8			22.943	1435.0
50	-1.372	-1.372	28.608	50	486.6			23.007	1434.9
75	-1.493	-1.494	29.233	75	437.8			23.515	1435.6
100	-1.570	-1.571	29.660	99	404.3			23.863	1436.2

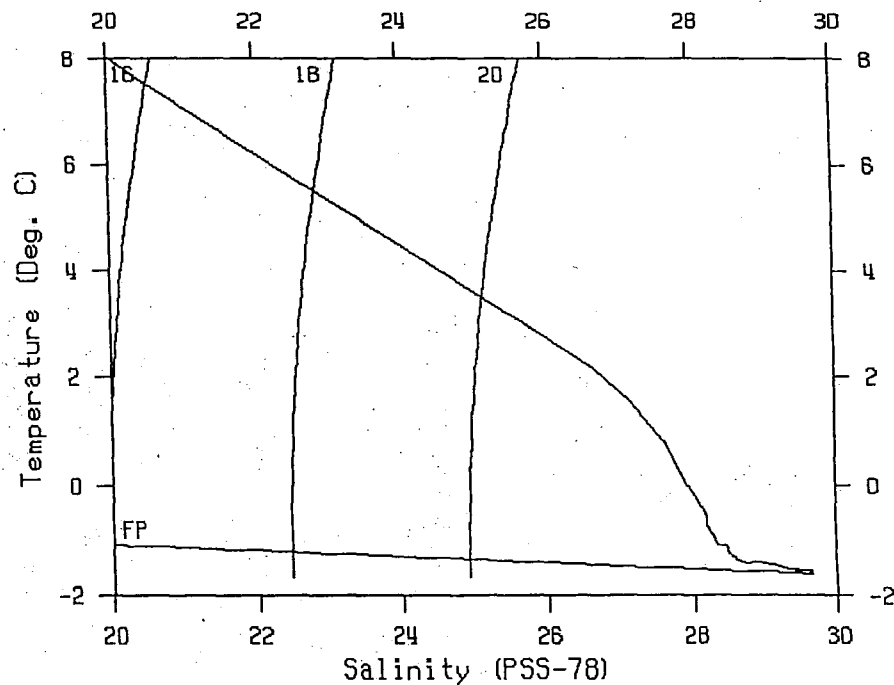
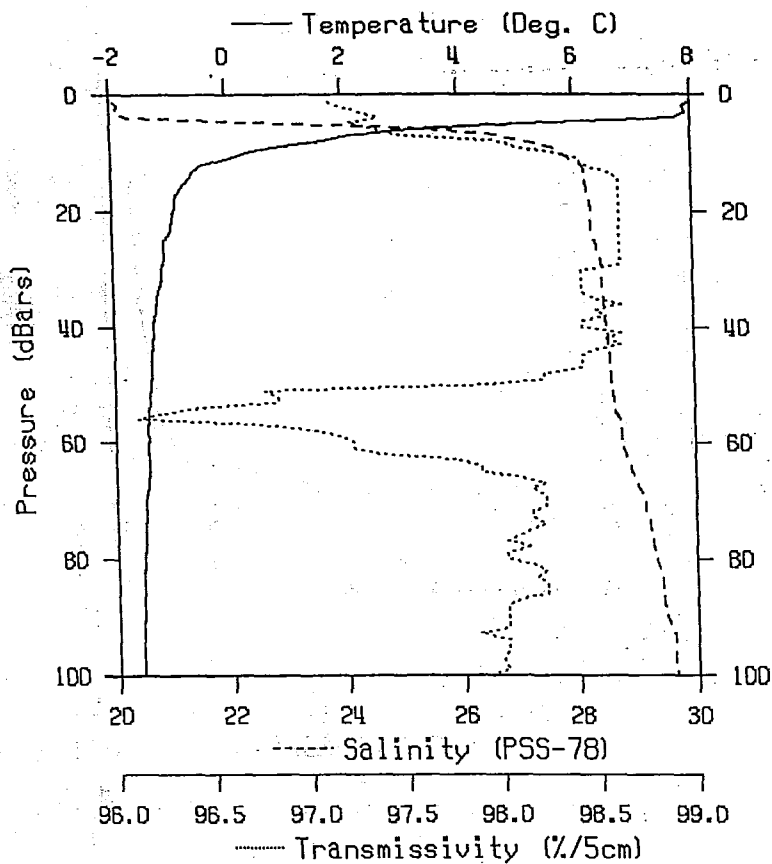
41





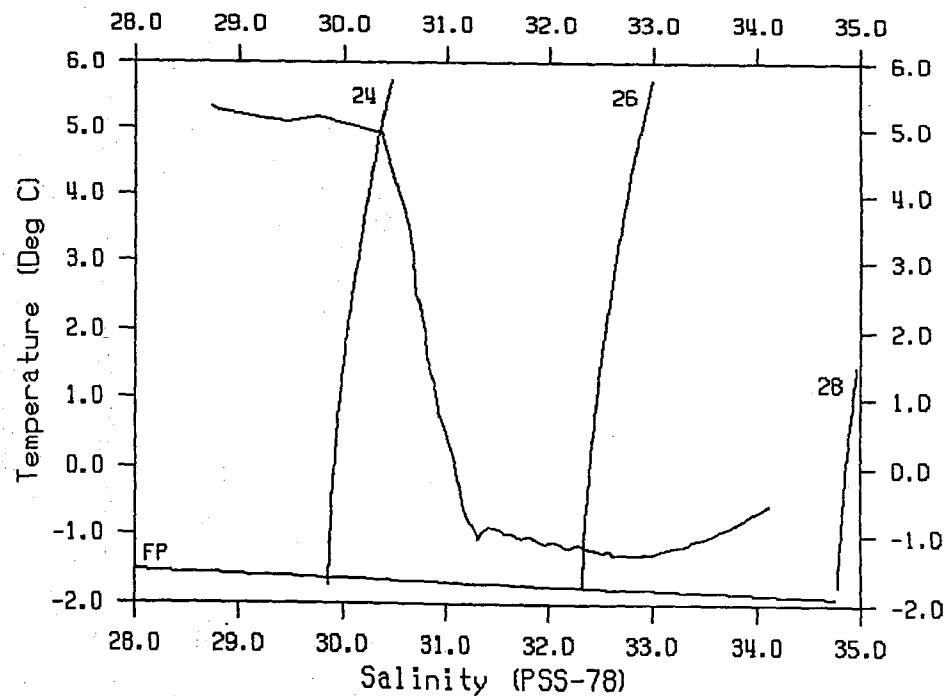
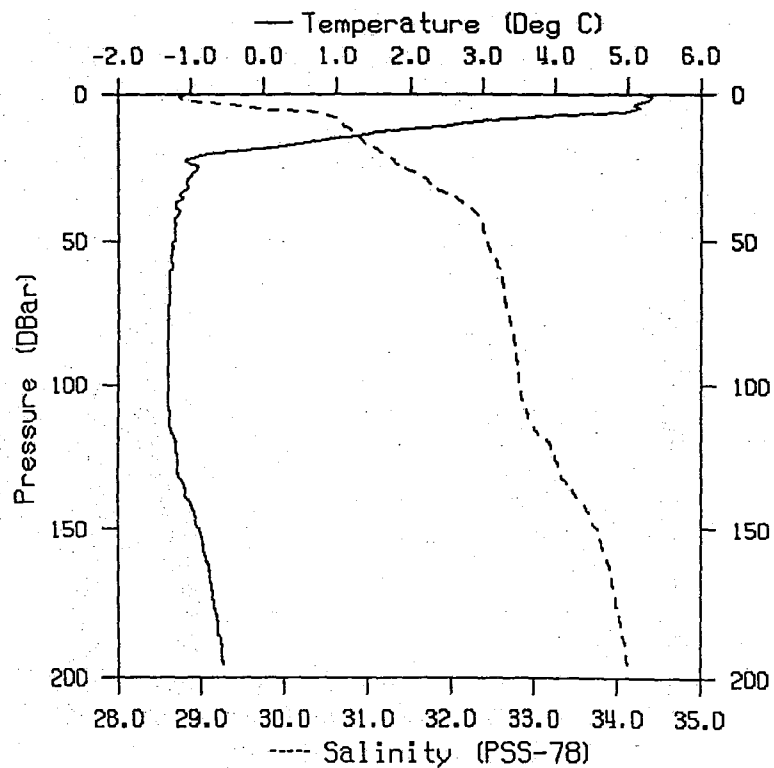
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : VS01  
 REFERENCE NO.: 95-26-028  
 DATE/TIME : 13/08/95 21:44 UTC  
 POSITION : 68-42.8N 102-36.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.540	5.540	22.797	5	968.5	97.2		17.996	1457.6
7	2.161	2.161	26.659	7	649.5	97.5		21.312	1446.0
10	.404	.403	27.763	10	556.7	98.3		22.280	1441.5
15	-.696	-.697	28.185	15	521.0	98.6		22.653	1437.0
20	-.929	-.930	28.279	20	513.1	98.6		22.794	1436.1
25	-1.082	-1.082	28.334	25	508.6	98.6		22.780	1435.5
30	-1.134	-1.134	28.455	30	499.1	98.5		22.879	1435.5
40	-1.294	-1.294	28.538	40	492.3	98.4		22.949	1435.0
50	-1.365	-1.366	28.607	50	486.6	97.9		23.006	1434.9
75	-1.490	-1.491	29.227	75	438.2	98.2		23.510	1435.6
100	-1.548	-1.549	29.635	99	406.3	98.0		23.842	1436.2



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AG01  
 REFERENCE NO.: 95-06-030  
 DATE/TIME : 15/08/95 20:33 UTC  
 POSITION : 69- 6.6N 115-42.5W

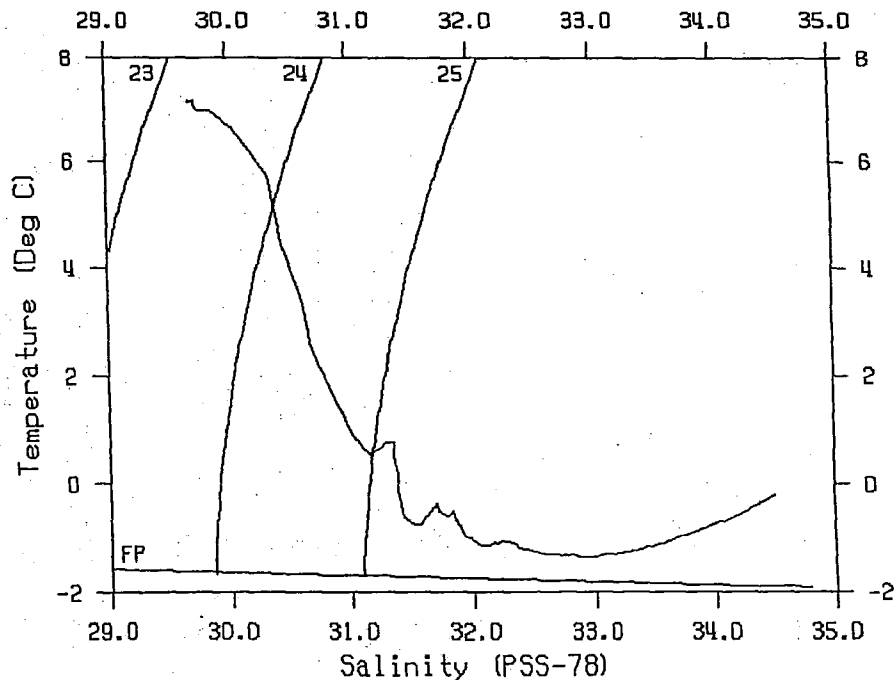
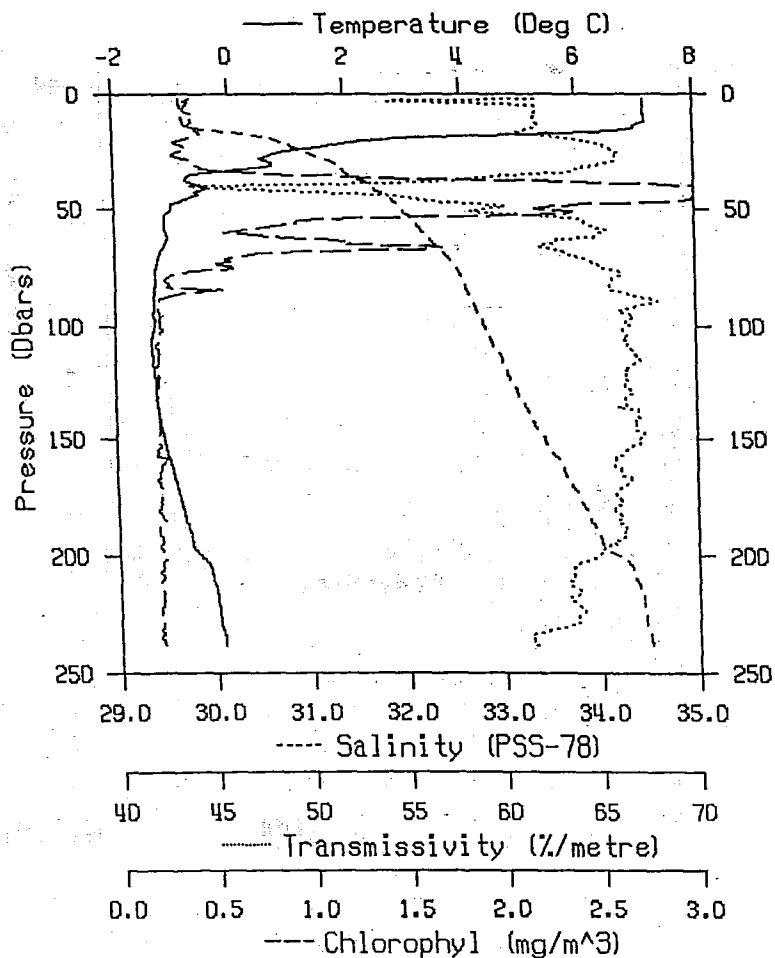
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	5.163	5.163	29.769	5	436.4			23.540	1464.8
7	4.125	4.124	30.509	7	370.6			24.229	1461.5
10	2.666	2.666	30.694	10	344.7			24.501	1455.5
15	.955	.955	30.900	15	318.3			24.778	1448.3
20	-.601	-.602	31.165	20	291.4			25.059	1441.5
25	-.883	-.884	31.413	25	271.4			25.269	1440.6
30	-1.047	-1.048	31.725	30	246.9			25.527	1440.3
40	-1.133	-1.134	32.273	40	204.4			25.973	1440.8
50	-1.217	-1.218	32.426	50	192.3			26.100	1440.8
75	-1.291	-1.293	32.690	74	171.6			26.316	1441.2
100	-1.295	-1.297	32.832	99	160.5			26.431	1441.8
150	-.868	-.872	33.757	149	90.8			27.167	1445.9
196	-.555	-.561	34.117	194	64.5			27.445	1448.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AG02  
 REFERENCE NO.: 95-26-031  
 DATE/TIME : 16/08/95 16:22 UTC  
 POSITION : 70-25.2N 124-21.3W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	7.164	7.163	29.709	5	463.3	61.8	.39	23.259	1472.8
7	7.165	7.164	29.710	7	463.2	62.0	.37	23.259	1472.8
10	7.186	7.185	29.729	10	462.1	61.9	.43	23.271	1473.0
15	6.995	6.994	29.863	15	449.8	61.8	.43	23.401	1472.5
20	2.622	2.621	30.669	20	346.4	64.0	.38	24.484	1455.5
25	1.009	1.008	30.987	25	311.9	65.9	.37	24.845	1448.8
30	.751	.750	31.284	30	287.9	65.6	.42	25.097	1448.1
40	-.438	-.439	31.680	40	252.3	44.0	3.00	25.470	1443.3
50	-.988	-.990	31.973	50	227.8	59.2	2.18	25.726	1441.3
75	-1.285	-1.286	32.546	74	182.7	65.3	.62	26.199	1441.0
100	-1.328	-1.330	32.828	99	160.7	66.5	.23	26.429	1441.6
150	-1.161	-1.165	33.436	149	114.2	67.1	.22	26.917	1444.1
200	-.573	-.580	34.189	198	58.8	64.9	.22	27.505	1448.6
239	-.180	-.189	34.512	237	36.2	61.7	.23	27.747	1451.5

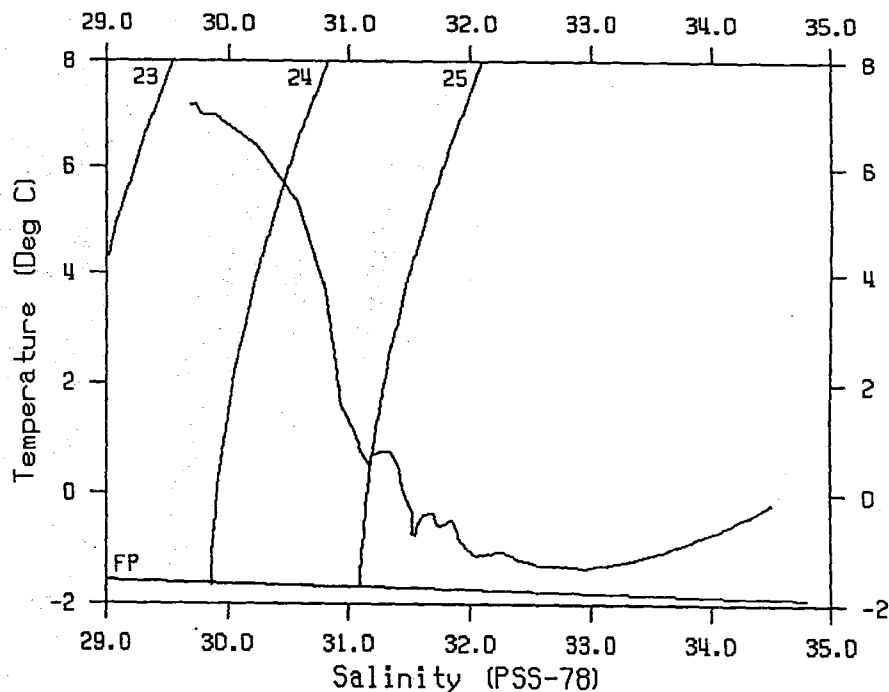
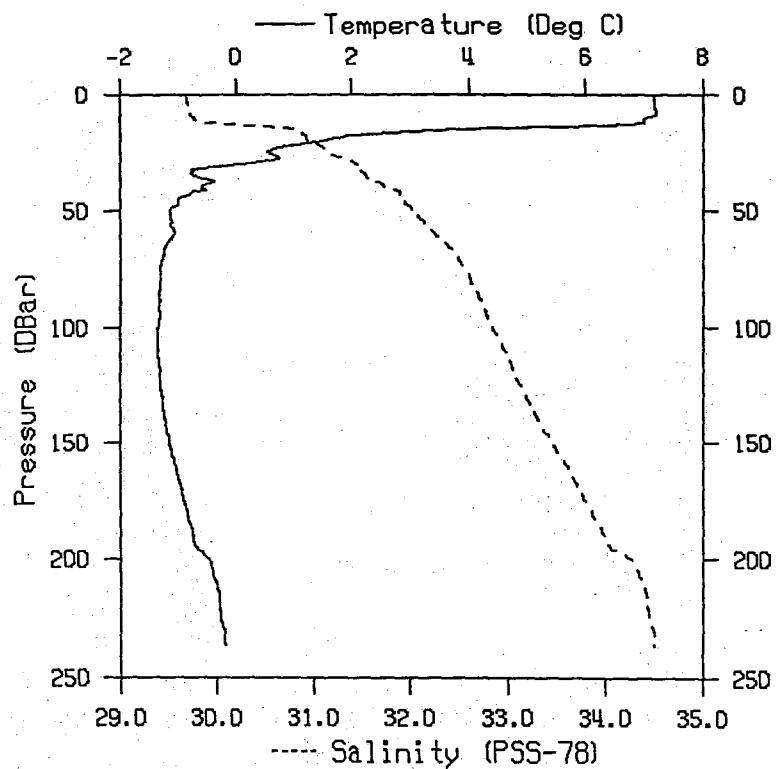
44



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AG02  
 REFERENCE NO.: 95-06-032  
 DATE/TIME : 16/08/95 16:20 UTC  
 POSITION : 70-25.2N 124-21.3W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	7.177	7.176	29.714	5	463.0			23.261	1472.8
7	7.188	7.187	29.727	7	462.3			23.270	1472.9
10	7.015	7.014	29.774	10	456.6			23.329	1472.3
15	3.824	3.823	30.785	15	347.1			24.476	1460.7
20	1.514	1.513	30.953	20	317.4			24.788	1450.9
25	.541	.540	31.163	25	296.1			25.010	1446.9
30	.089	.088	31.437	30	273.0			25.253	1445.3
40	-.592	-.593	31.753	40	246.1			25.534	1442.7
50	-1.133	-1.134	32.049	50	221.5			25.792	1440.7
75	-1.293	-1.295	32.578	74	180.2			26.225	1441.0
100	-1.330	-1.332	32.850	99	159.0			26.447	1441.6
150	-1.134	-1.138	33.458	149	112.6			26.934	1444.2
200	-.458	-.464	34.260	198	54.0			27.557	1449.3
237	-.169	-.178	34.496	234	37.4			27.734	1451.5

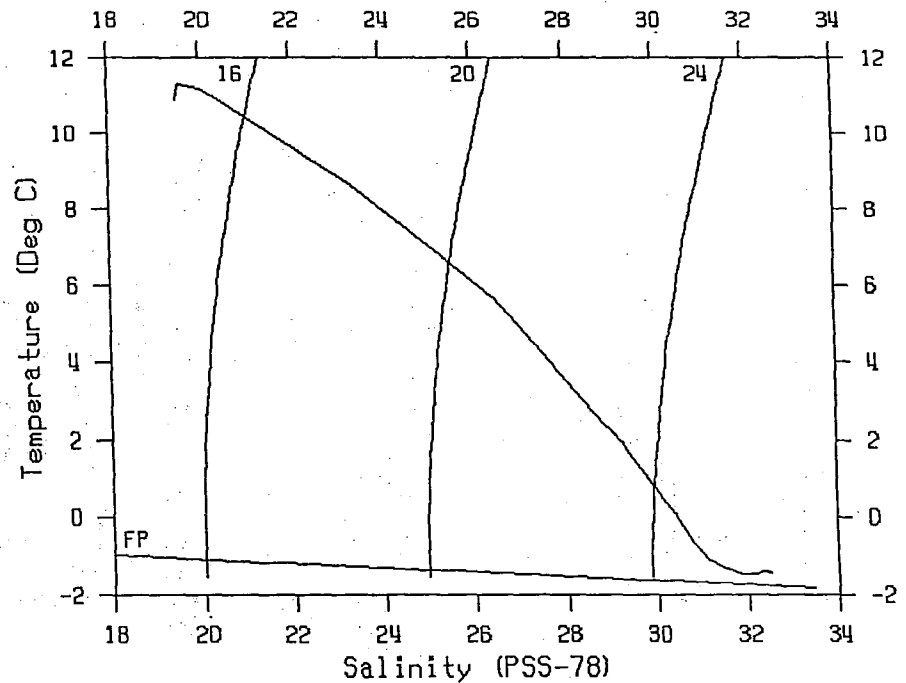
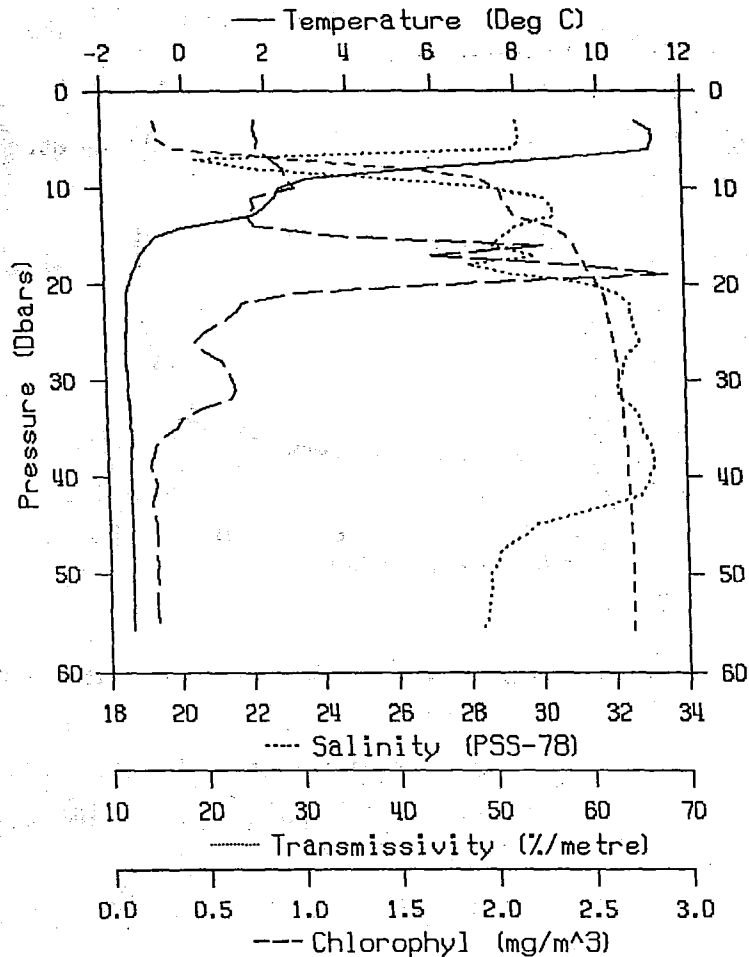
45



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO1  
 REFERENCE NO.: 95-26-033  
 DATE/TIME : 19/08/95 18:12 UTC  
 POSITION : 70-15.5N 136-57.1W

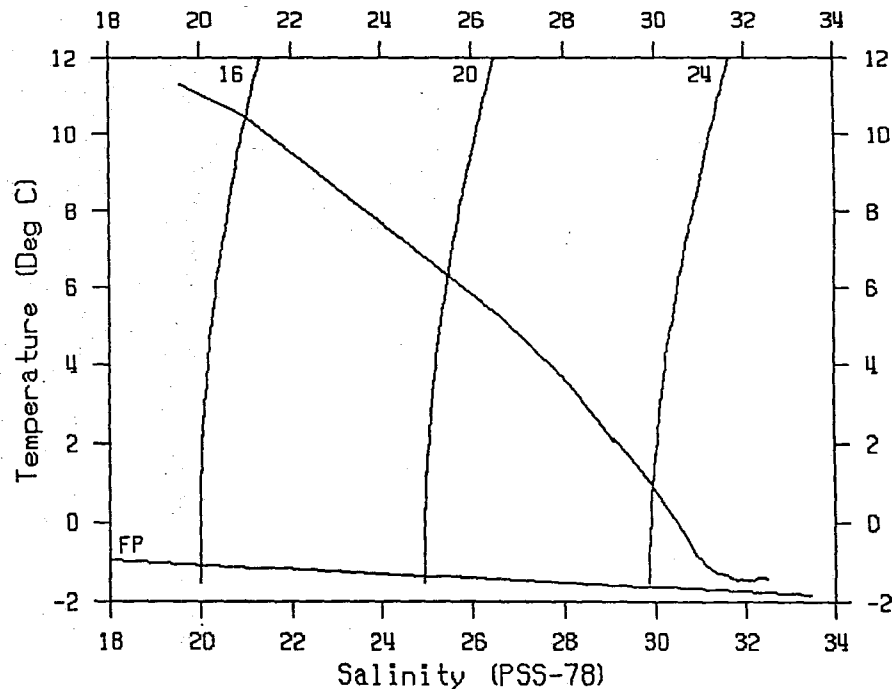
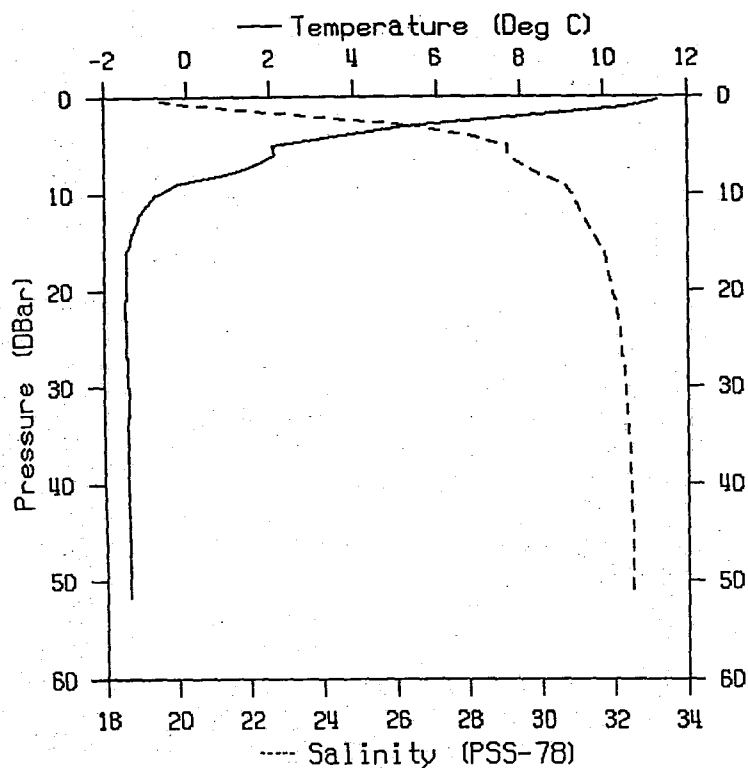
Pres	Temp	Theta	Sal	Dept	SVR	Z Tr	Chlo	Sig-t	Sound
5	11.295	11.295	19.587	5	1279.1	53.4	.82	14.787	1476.0
7	8.704	8.704	23.234	7	969.3	21.0	.88	17.987	1470.8
10	2.330	2.330	28.918	10	477.7	50.0	1.01	23.107	1451.7
15	-.684	-.684	30.804	15	319.0	51.5	1.26	24.770	1440.6
20	-1.364	-1.364	31.625	20	253.9	60.2	1.66	25.454	1438.5
25	-1.471	-1.472	31.986	25	225.7	65.0	.53	25.750	1438.6
30	-1.461	-1.462	32.206	30	208.7	63.2	.66	25.928	1439.0
40	-1.419	-1.419	32.405	40	193.4	66.2	.24	26.088	1439.6
50	-1.426	-1.427	32.476	50	187.9	49.7	.25	26.146	1439.9
56	-1.428	-1.429	32.476	55	187.8	48.8	.27	26.146	1440.0

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO1  
 REFERENCE NO.: 95-06-034  
 DATE/TIME : 19/08/95 18:12 UTC  
 POSITION : 70-15.5N 136-59.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.071	2.070	29.098	5	462.4			23.267	1450.7
7	1.674	1.674	29.445	7	433.6			23.569	1449.5
10	-.729	-.729	30.846	10	315.7			24.805	1440.3
15	-1.347	-1.347	31.569	15	258.2			25.408	1438.5
20	-1.466	-1.466	31.959	20	227.9			25.727	1438.5
25	-1.456	-1.456	32.186	25	210.4			25.911	1438.9
30	-1.405	-1.405	32.305	30	201.2			26.007	1439.4
40	-1.421	-1.422	32.465	40	188.8			26.137	1439.7
50	-1.423	-1.424	32.474	50	188.0			26.145	1439.9
52	-1.423	-1.424	32.474	51	188.0			26.144	1439.9



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : ARO1

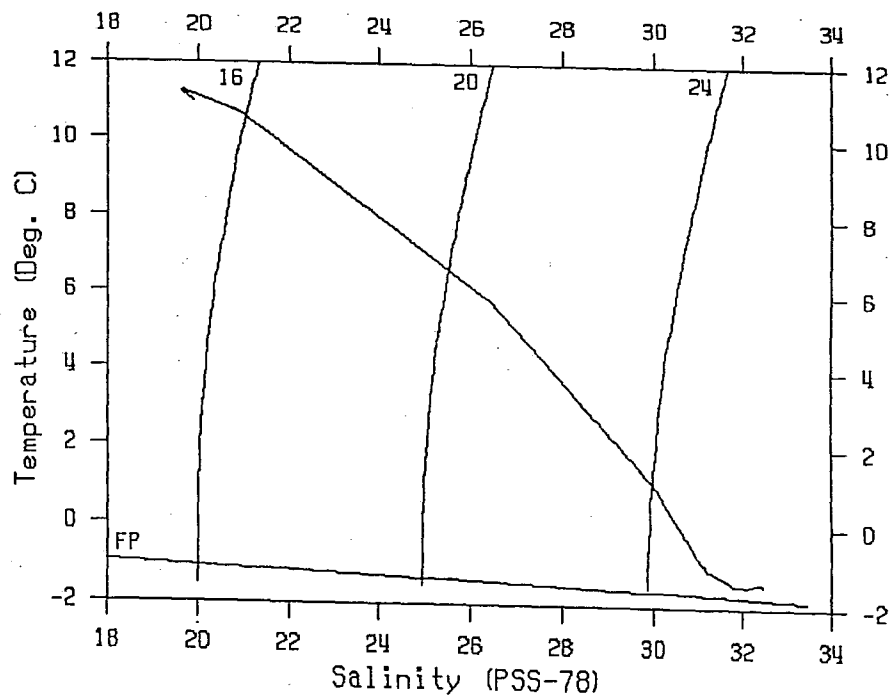
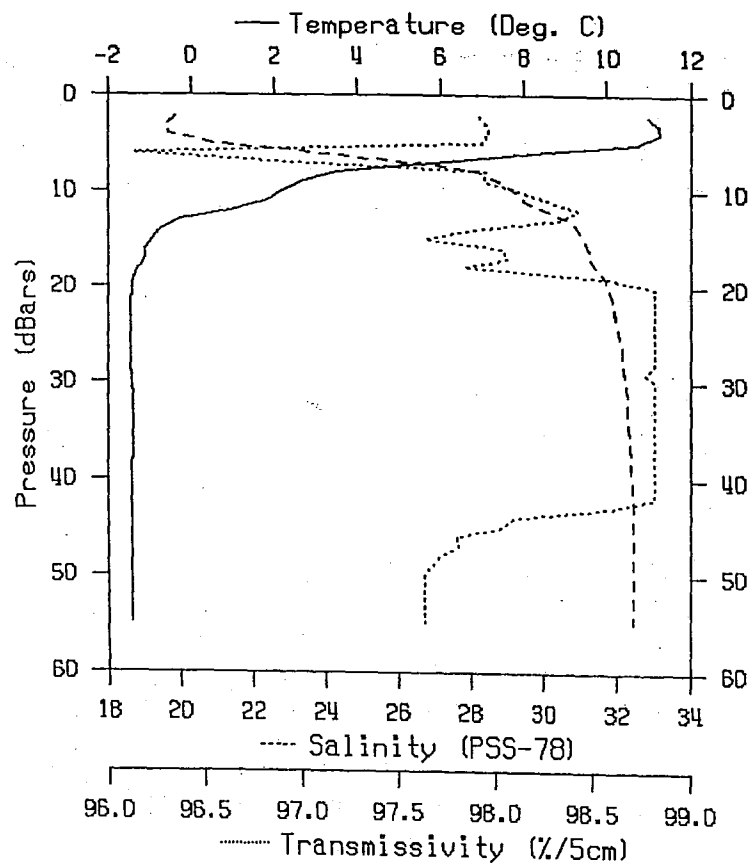
REFERENCE NO.: 95-26-035

DATE/TIME : 19/08/95 18:11 UTC

POSITION : 70-15.5N 136-59.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	10.702	10.701	20.906	5	1171.3	97.9		15.898	1475.4
7	5.977	5.976	26.220	7	712.9	96.9		20.651	1463.7
10	2.208	2.208	29.168	10	457.9	98.1		23.315	1451.5
15	-.928	-.928	31.118	15	294.1	97.7		25.031	1439.8
20	-1.421	-1.421	31.788	20	241.2	98.8		25.587	1438.5
25	-1.457	-1.457	32.056	25	220.3	98.8		25.806	1438.7
30	-1.424	-1.425	32.230	30	207.0	98.8		25.946	1439.2
40	-1.411	-1.411	32.401	40	193.8	98.8		26.084	1439.7
50	-1.421	-1.422	32.463	50	188.9	97.6		26.135	1439.9
55	-1.417	-1.418	32.459	55	189.1	97.6		26.132	1440.0

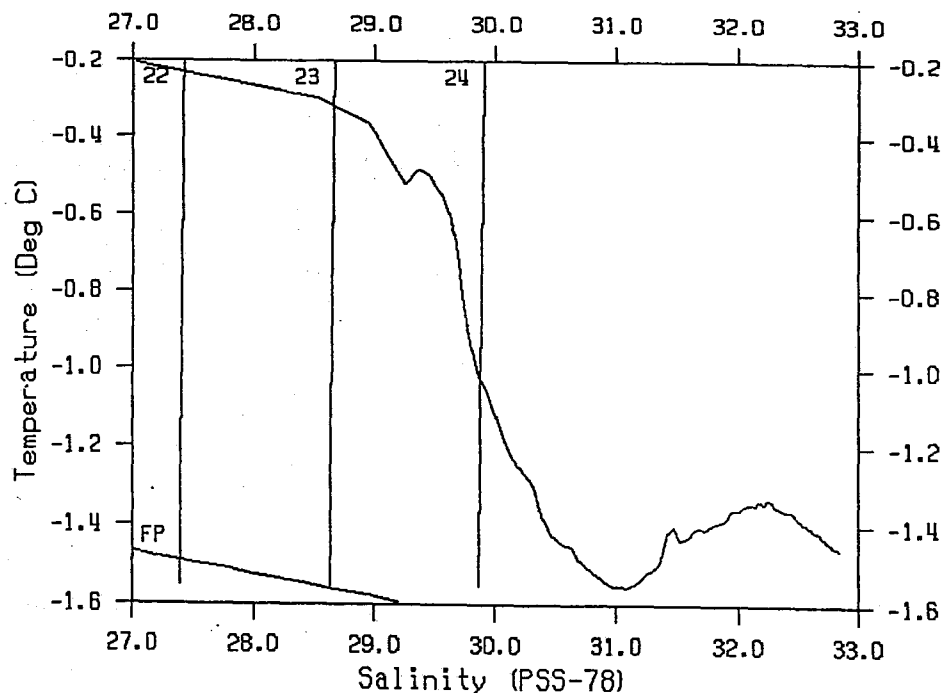
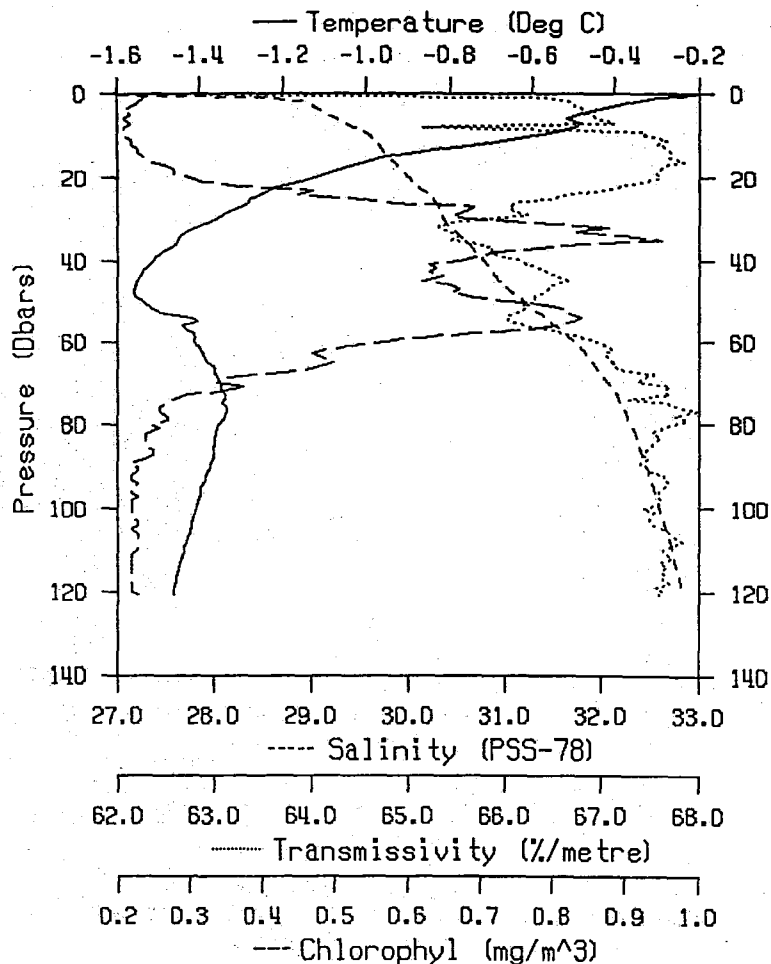
48



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO9  
 REFERENCE NO.: 95-26-036  
 DATE/TIME : 20/08/95 21:22 UTC  
 POSITION : 72-59.2N 145-21.7W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chl a	Sig-t	Sound
5	-.489	-.489	29.179	5	444.9	66.9	.22	23.451	1439.1
7	-.483	-.483	29.352	7	431.5	67.1	.22	23.590	1439.4
10	-.596	-.596	29.615	10	410.9	67.5	.21	23.806	1439.3
15	-.950	-.951	29.799	15	395.8	67.7	.24	23.964	1438.0
20	-1.124	-1.124	30.006	20	379.4	67.6	.30	24.135	1437.5
25	-1.273	-1.273	30.254	25	359.8	66.5	.52	24.340	1437.2
30	-1.361	-1.361	30.368	30	350.8	65.8	.68	24.434	1437.0
40	-1.510	-1.511	30.775	40	318.9	66.2	.67	24.767	1437.0
50	-1.535	-1.536	31.198	50	286.2	66.3	.73	25.111	1437.6
75	-1.342	-1.343	32.215	74	208.0	67.7	.27	25.931	1440.3
100	-1.405	-1.407	32.609	99	177.3	67.4	.22	26.253	1441.0
121	-1.461	-1.463	32.858	120	157.8	67.6	.23	26.457	1441.4

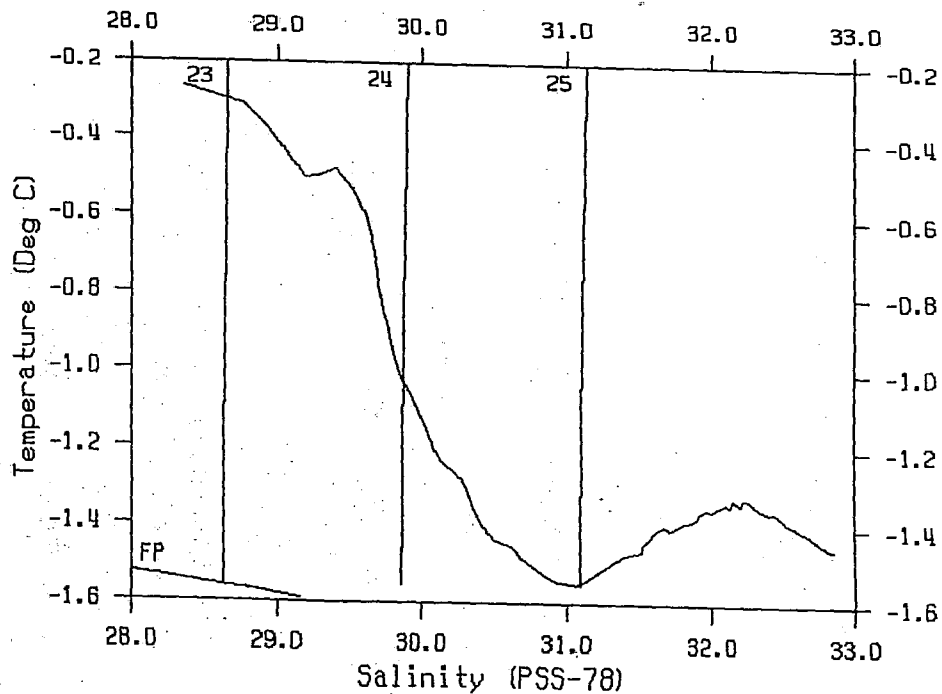
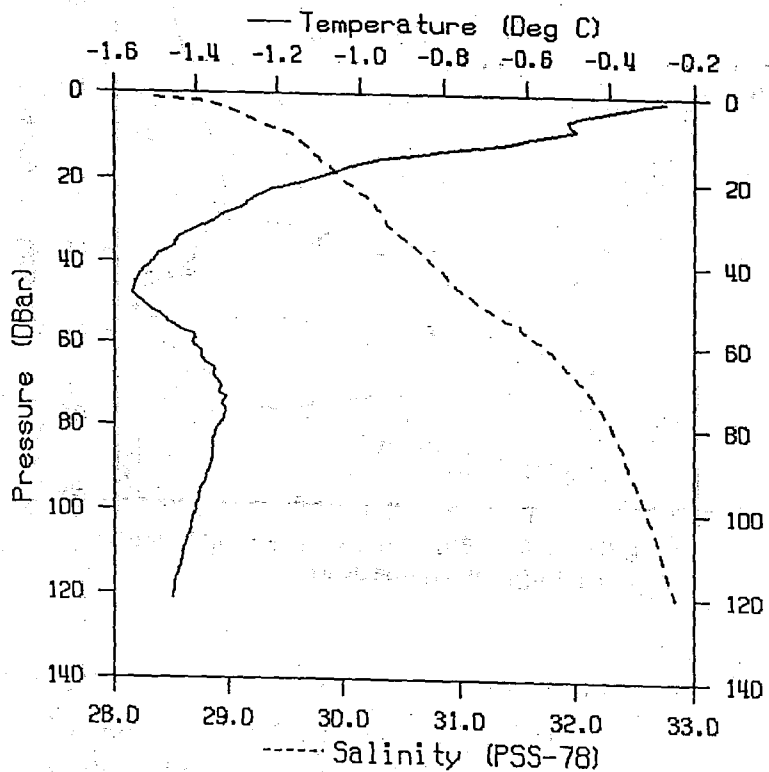
49





Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-06-037  
 DATE/TIME : 20/08/95 21:45 UTC  
 POSITION : 72-59.2N 145-21.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	-.475	-.475	29.138	5	448.1		23.417	1439.2
7	-.495	-.496	29.289	7	436.4		23.539	1439.3
10	-.587	-.587	29.598	10	412.2		23.792	1439.3
15	-.946	-.946	29.796	15	396.0		23.961	1438.0
20	-1.119	-1.120	29.997	20	380.0		24.128	1437.5
25	-1.270	-1.270	30.244	25	360.6		24.331	1437.2
30	-1.355	-1.356	30.364	30	351.1		24.431	1437.0
40	-1.505	-1.506	30.765	40	319.8		24.759	1437.0
50	-1.529	-1.530	31.177	50	287.8		25.093	1437.6
75	-1.338	-1.339	32.205	74	208.7		25.924	1440.3
100	-1.400	-1.402	32.605	99	177.6		26.250	1441.0
122	-1.457	-1.459	32.859	121	157.8		26.457	1441.4



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : ARO9

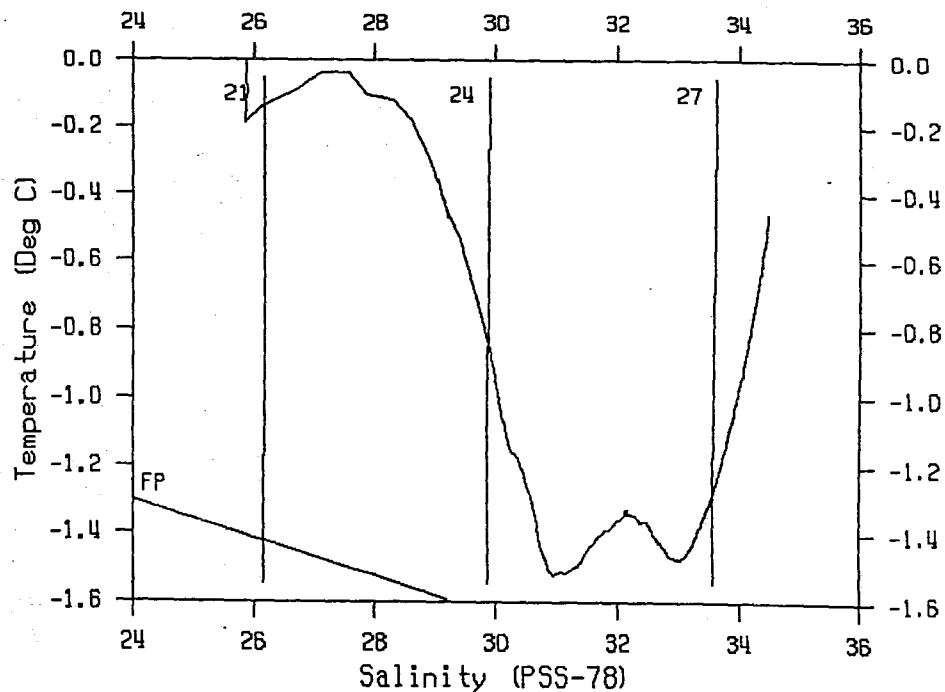
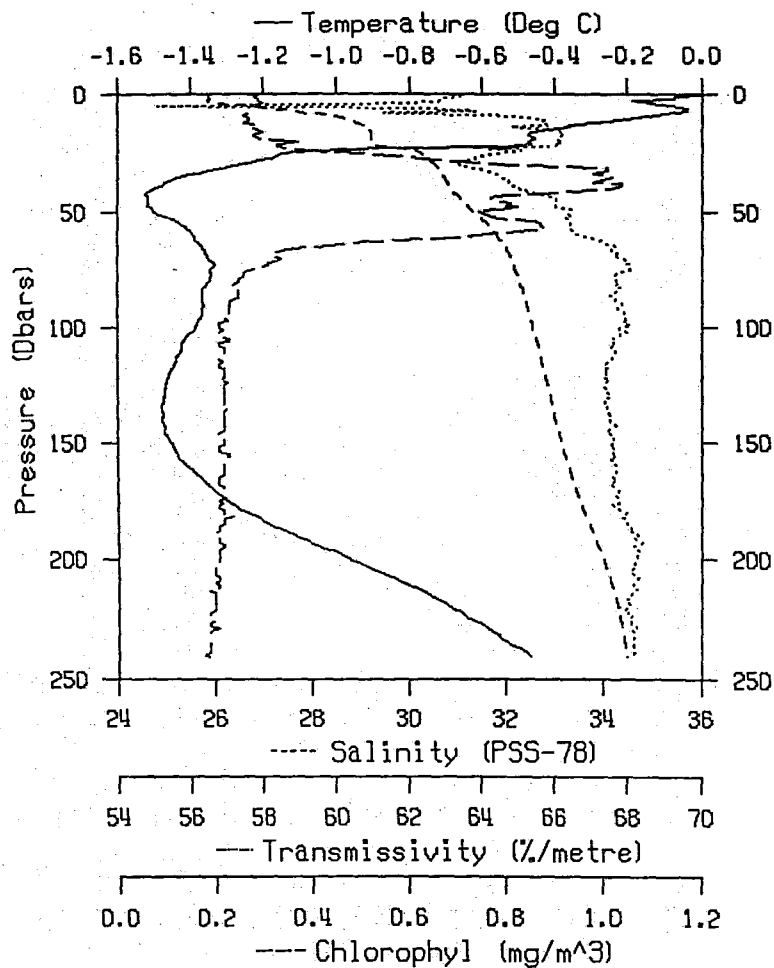
REFERENCE NO.: 95-26-038

DATE/TIME : 21/08/95 14:32 UTC

POSITION : 72-58.9N 145- 2.3W

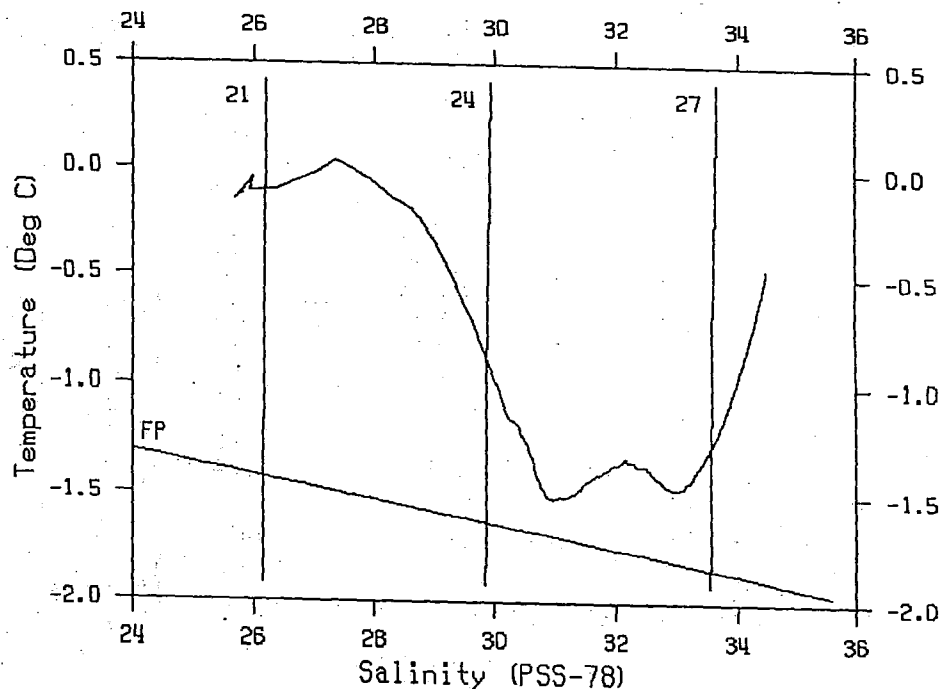
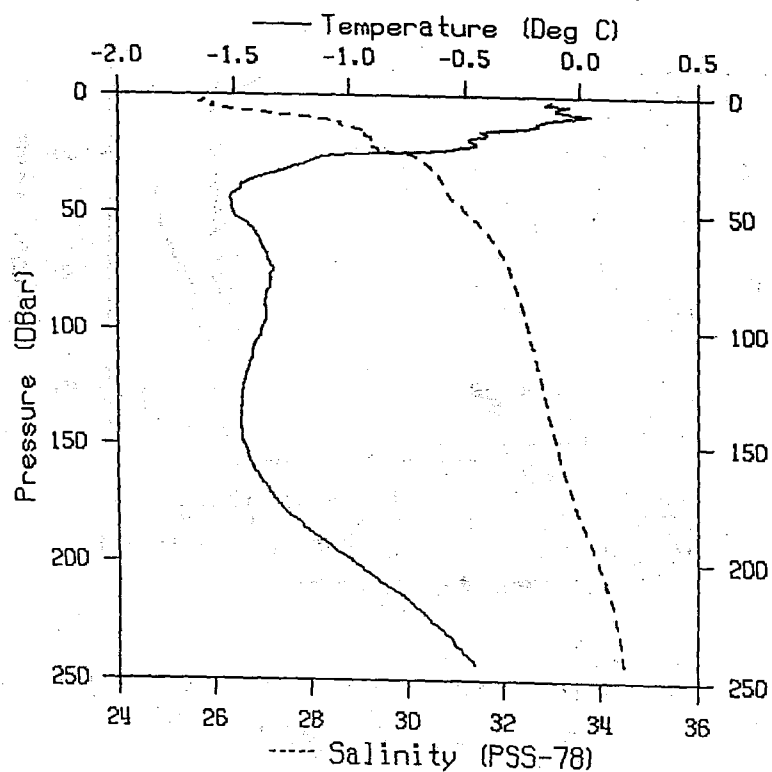
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.085	-.085	26.739	5	634.2	55.3	.28	21.471	1437.8
7	-.040	-.040	27.565	7	570.6	63.8	.27	22.135	1439.1
10	-.175	-.175	28.604	10	490.0	65.3	.27	22.978	1439.9
15	-.417	-.417	29.137	15	448.2	66.0	.29	23.415	1439.6
20	-.473	-.473	29.242	20	439.9	66.1	.38	23.501	1439.5
25	-1.147	-1.148	30.238	25	361.3	64.4	.51	24.324	1437.8
30	-1.276	-1.276	30.553	30	336.7	63.4	.84	24.582	1437.7
40	-1.501	-1.502	30.855	40	312.8	65.0	1.01	24.832	1437.1
50	-1.495	-1.496	31.334	50	275.7	66.4	.74	25.221	1438.0
75	-1.344	-1.346	32.200	74	209.1	68.1	.27	25.920	1440.3
100	-1.385	-1.387	32.558	99	181.3	67.8	.21	26.212	1441.0
150	-1.450	-1.454	33.157	149	134.7	67.7	.22	26.699	1442.3
200	-.960	-.965	34.024	198	69.8	68.3	.21	27.386	1446.6
241	-.459	-.467	34.488	239	36.5	68.2	.19	27.741	1450.2

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-06-039  
 DATE/TIME : 21/08/95 14:32 UTC  
 POSITION : 72-58.9N 145- 2.3W

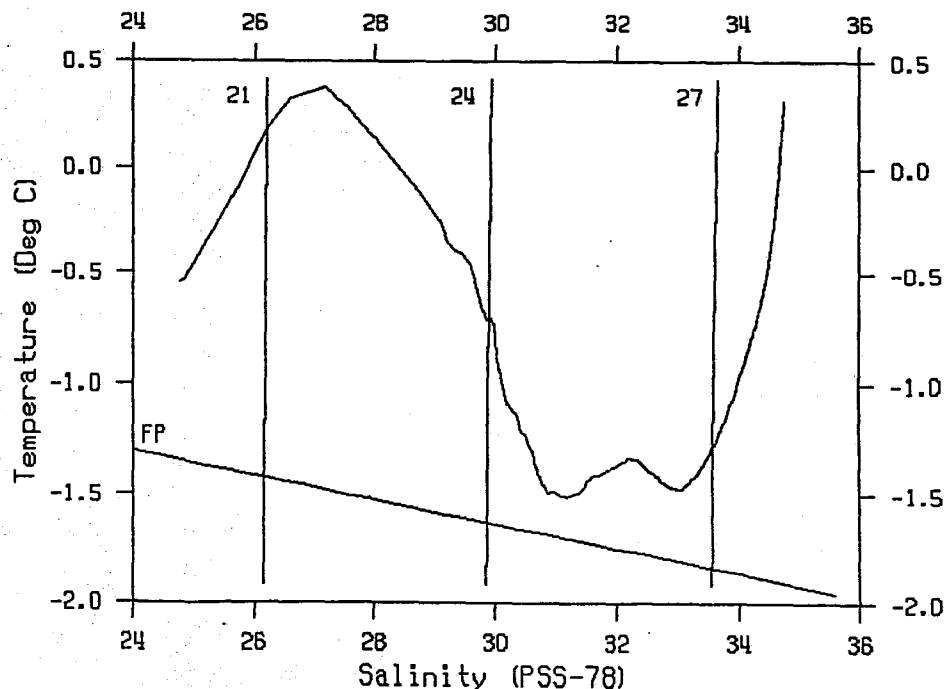
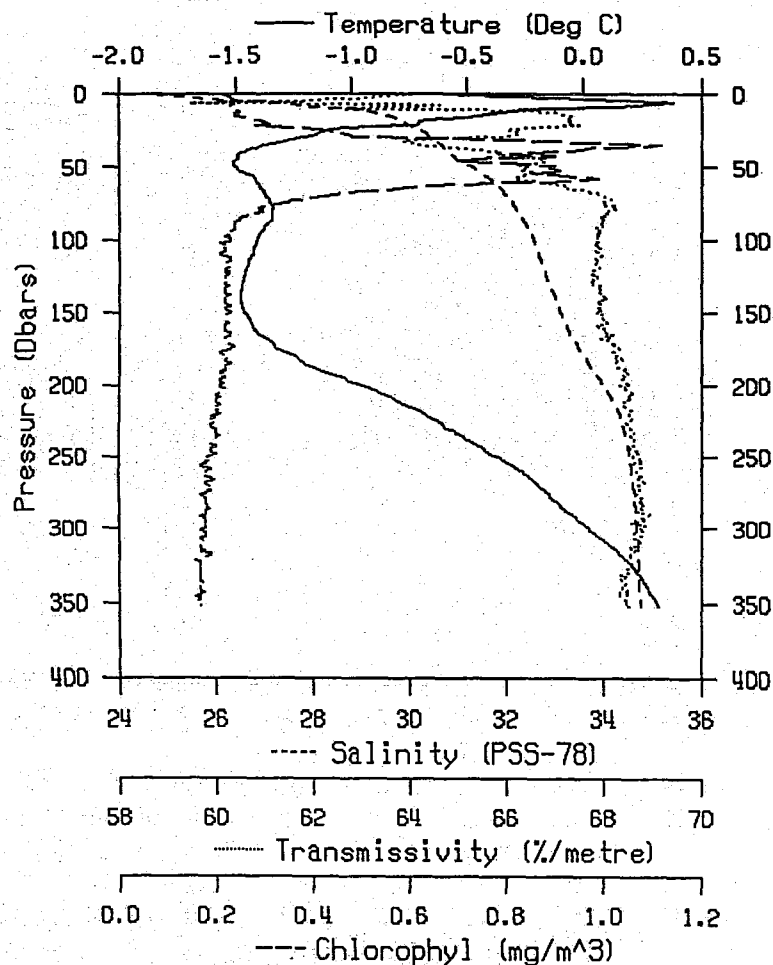
Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
5	-.101	-.101	25.931	5	696.7		20.819	1436.6
7	-.022	-.022	26.999	7	614.3		21.678	1438.5
10	-.131	-.131	28.279	10	515.2		22.713	1439.7
15	-.431	-.431	29.171	15	445.5		23.443	1439.6
20	-.450	-.450	29.197	20	443.4		23.464	1439.6
25	-.999	-1.000	30.042	25	376.8		24.162	1438.2
30	-1.225	-1.225	30.458	30	344.2		24.504	1437.8
40	-1.466	-1.466	30.807	40	316.6		24.792	1437.3
50	-1.498	-1.499	31.240	50	283.0		25.144	1437.8
75	-1.326	-1.327	32.167	74	211.7		25.893	1440.3
100	-1.375	-1.377	32.537	99	162.9		26.194	1441.0
150	-1.454	-1.457	33.123	149	137.3		26.672	1442.2
200	-.979	-.985	33.988	198	72.4		27.358	1446.5
244	-.453	-.461	34.486	241	36.7		27.799	1450.3



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO9  
 REFERENCE NO.: 95-26-040  
 DATE/TIME : 21/08/95 18:12 UTC  
 POSITION : 72-57.9N 144-58.1W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	.333	.333	26.643	5	642.8	61.7	.23	21.381	1439.6
7	.301	.301	27.514	7	575.5	63.7	.24	22.083	1440.7
10	-.138	-.138	28.797	10	475.3	62.3	.24	23.131	1440.4
15	-.448	-.448	29.562	15	415.3	67.3	.24	23.759	1440.0
20	-.707	-.707	29.933	20	385.9	67.3	.31	24.067	1439.4
25	-1.110	-1.111	30.259	25	359.8	66.1	.43	24.340	1438.0
30	-1.229	-1.229	30.475	30	342.8	65.0	.59	24.518	1437.8
40	-1.467	-1.468	30.836	40	314.4	65.9	.84	24.815	1437.3
50	-1.500	-1.501	31.303	50	278.1	66.5	.89	25.195	1437.9
75	-1.349	-1.350	32.159	74	212.3	68.0	.35	25.886	1440.2
100	-1.400	-1.402	32.576	99	179.9	67.8	.23	26.226	1440.9
150	-1.458	-1.461	33.132	149	136.6	67.9	.23	26.680	1442.2
200	-.954	-.959	34.038	198	68.7	68.3	.21	27.397	1446.7
250	-.373	-.381	34.537	248	33.2	68.6	.18	27.777	1450.9
350	.312	.297	34.757	347	20.4	68.5	.16	27.918	1455.9
353	.321	.306	34.760	349	20.2	68.6	.17	27.921	1456.0

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

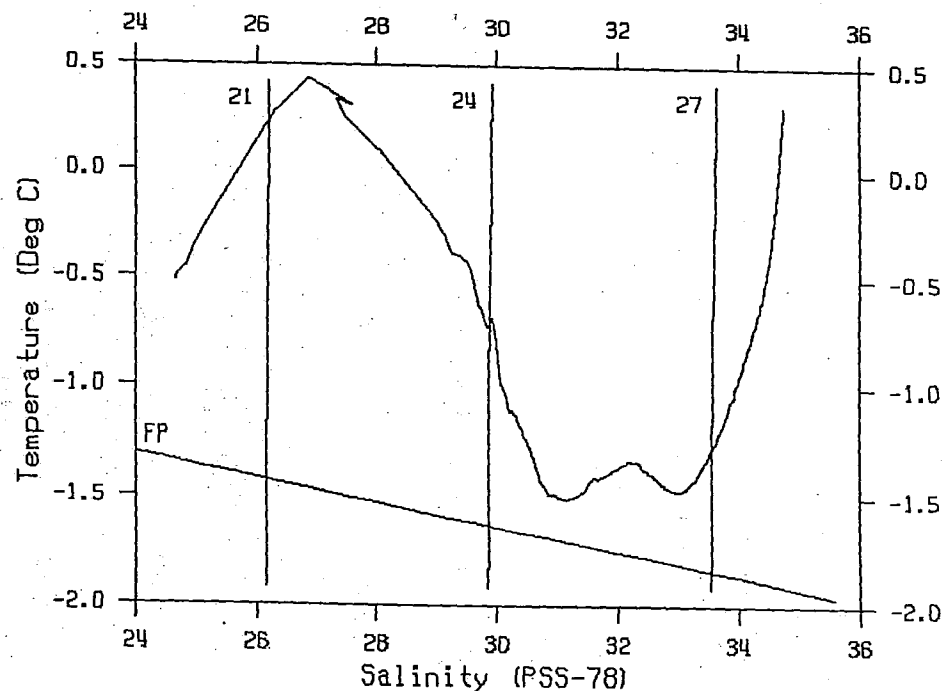
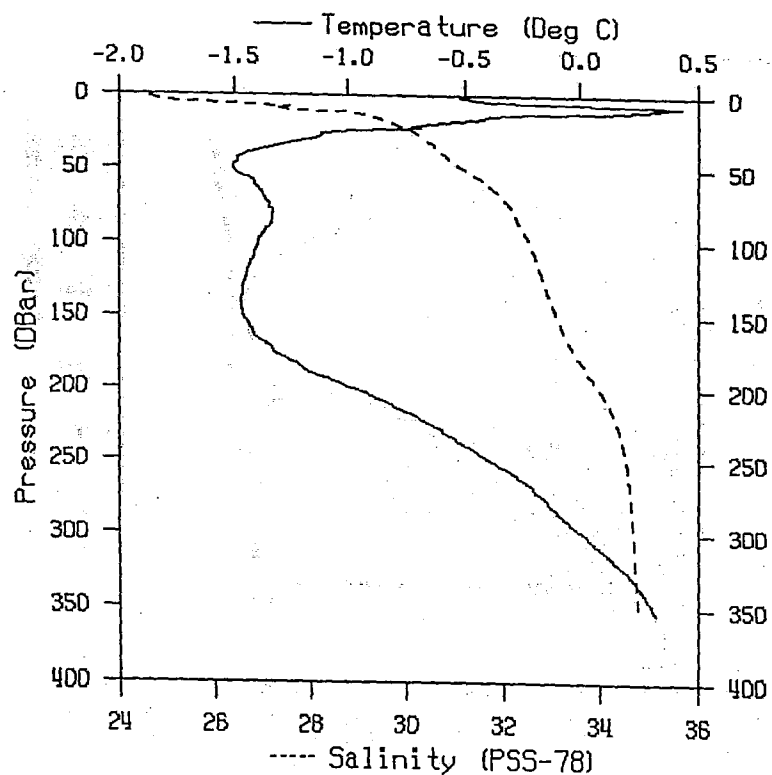
STATION : AR09

REFERENCE NO.: 95-06-041

DATE/TIME : 21/08/95 18:12 UTC

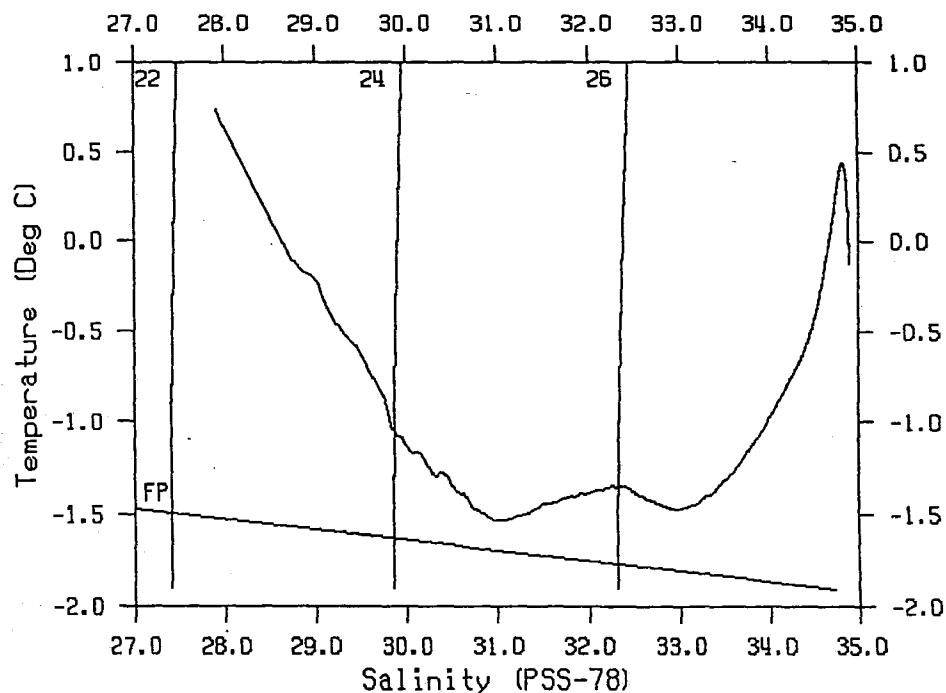
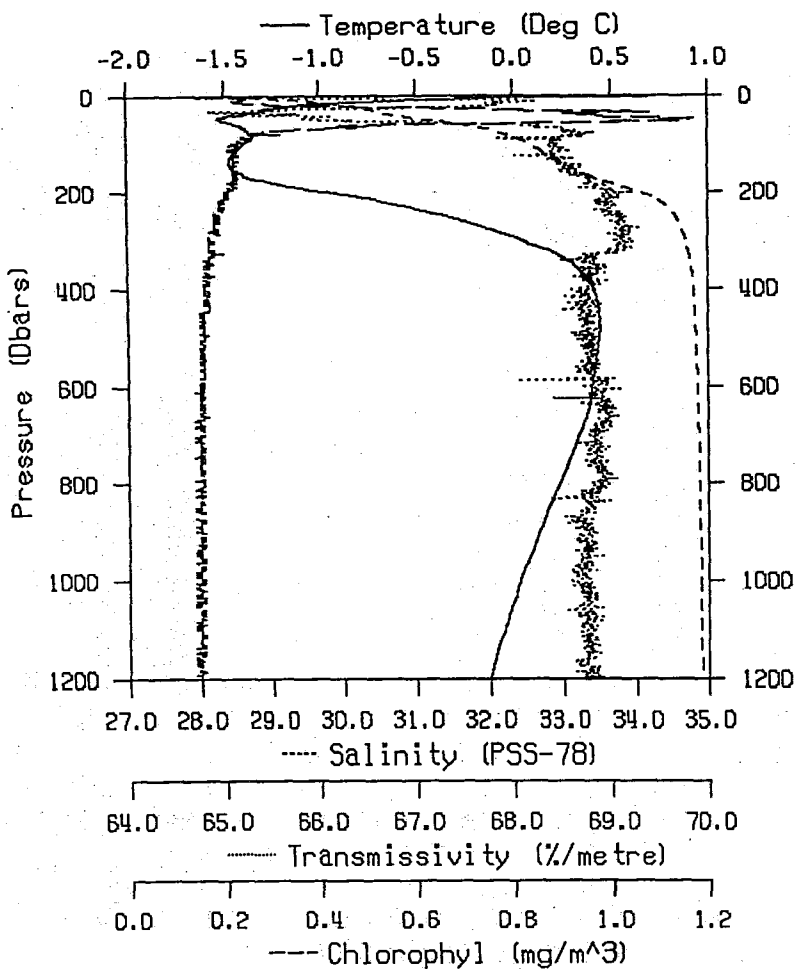
POSITION : 72-57.9N 144-58.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	-.187	-.187	25.306	5	744.9		20.318	1435.4
7	.431	.431	26.854	7	626.9		21.547	1440.4
10	.255	.255	27.480	10	578.0		22.058	1440.4
15	-.398	-.398	29.383	15	429.3		23.613	1440.0
20	-.688	-.688	29.809	20	395.6		23.965	1439.3
25	-1.025	-1.026	30.149	25	368.4		24.250	1438.2
30	-1.184	-1.184	30.392	30	349.3		24.450	1437.9
40	-1.446	-1.446	30.776	40	319.0		24.766	1437.3
50	-1.505	-1.505	31.180	50	287.6		25.095	1437.7
75	-1.346	-1.347	32.112	74	215.9		25.848	1440.2
100	-1.393	-1.395	32.551	99	181.8		26.206	1440.9
150	-1.461	-1.464	33.106	149	138.6		26.658	1442.2
200	-.982	-.987	33.987	198	72.5		27.358	1446.5
250	-.392	-.400	34.525	248	34.0		27.768	1450.6
350	.308	.293	34.757	347	20.3		27.919	1455.9
354	.321	.307	34.761	350	20.1		27.921	1456.1



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-26-042  
 DATE/TIME : 21/08/95 20:50 UTC  
 POSITION : 72-57.7N 144-53.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sigt	Sound
5	-.191	-.191	28.942	5	464.0	66.2	.25	23.250	1440.2
7	-.347	-.347	29.123	7	449.5	66.9	.24	23.401	1439.8
10	-.586	-.586	29.460	10	422.9	68.3	.22	23.681	1439.1
15	-.916	-.916	29.787	15	396.8	67.9	.25	23.953	1438.1
20	-1.128	-1.128	30.007	20	379.3	67.8	.34	24.136	1437.5
25	-1.221	-1.222	30.223	25	362.3	66.9	.60	24.314	1437.4
30	-1.276	-1.277	30.393	30	349.0	65.4	.76	24.452	1437.4
40	-1.452	-1.453	30.713	40	323.8	65.7	.95	24.716	1437.2
50	-1.519	-1.520	31.151	50	289.8	66.2	1.15	25.073	1437.6
75	-1.372	-1.373	32.121	74	215.2	68.5	.29	25.856	1440.1
100	-1.396	-1.398	32.553	99	181.6	68.5	.23	26.208	1440.9
150	-1.456	-1.459	33.117	149	137.8	68.7	.22	26.667	1442.2
200	-.973	-.979	34.009	198	70.8	69.1	.21	27.375	1446.5
250	-.350	-.359	34.546	248	32.8	68.9	.19	27.783	1451.0
350	.304	.290	34.757	347	20.4	68.8	.17	27.919	1455.9
500	.437	.415	34.826	495	16.0	68.7	.16	27.967	1459.1
1000	.028	-.017	34.882	988	9.1	68.7	.15	28.035	1465.5
1200	-.126	-.180	34.896	1185	6.8	68.7	.15	28.055	1468.1



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

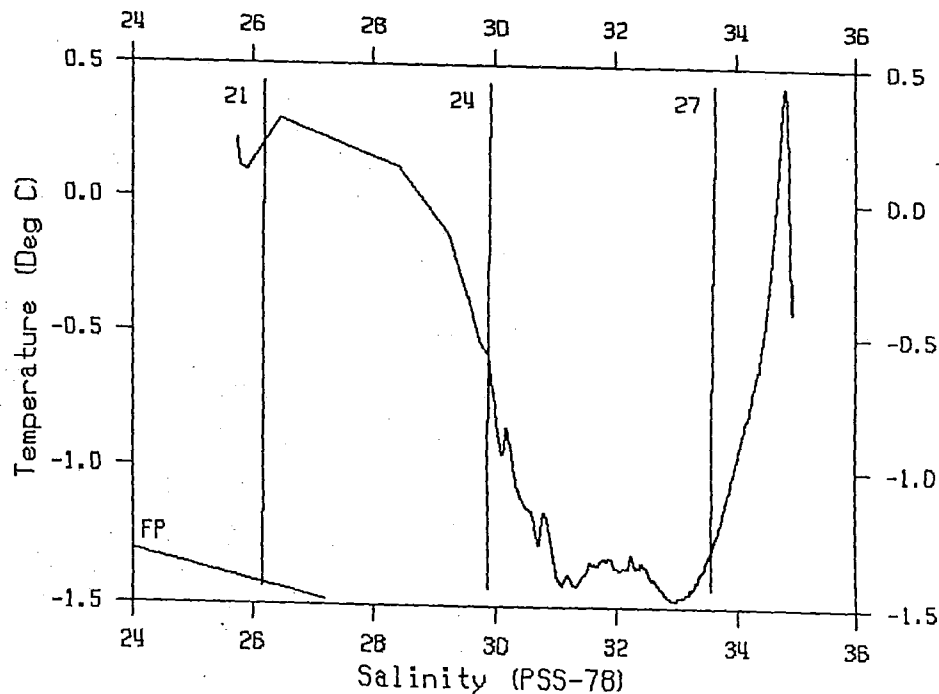
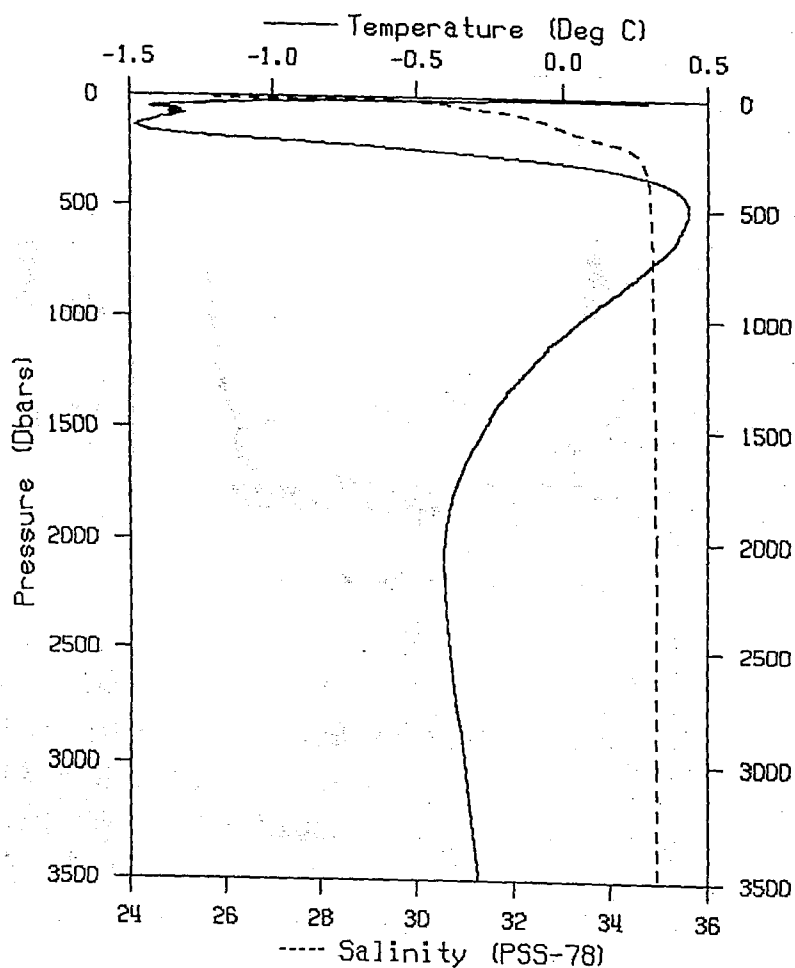
STATION : AR09

REFERENCE NO.: 95-26-044

DATE/TIME : 22/08/95 14:25 UTC

POSITION : 72-45.1N 144-20.2W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	.200	.200	25.747	5	711.7	.0	.00	20.663	1437.8
7	.191	.191	25.750	7	711.3	.0	.00	20.667	1437.8
10	.110	.110	25.938	10	696.6	.0	.00	20.820	1437.7
15	-.536	-.536	29.764	15	399.6	.0	.00	23.924	1439.9
20	-.950	-.951	30.118	20	371.1	.0	.00	24.222	1438.5
25	-1.053	-1.053	30.345	25	353.3	.0	.00	24.409	1438.4
30	-1.158	-1.158	30.586	30	334.4	.0	.00	24.607	1438.3
40	-1.280	-1.280	30.932	40	307.3	.0	.00	24.890	1438.3
50	-1.401	-1.401	31.140	50	290.9	.0	.00	25.061	1438.2
75	-1.361	-1.362	32.067	74	217.6	.0	.00	25.829	1440.1
100	-1.378	-1.380	32.540	99	182.7	.0	.00	26.196	1441.0
150	-1.457	-1.460	33.127	149	137.0	.0	.00	26.675	1442.2
200	-.984	-.989	33.986	198	72.6	.0	.00	27.356	1446.4
250	-.410	-.416	34.518	248	34.5	.0	.00	27.763	1450.7
350	.261	.246	34.747	347	20.8	.0	.00	27.913	1455.7
500	.433	.411	34.821	495	16.4	.0	.00	27.963	1459.0
1000	.064	.019	34.882	988	9.4	.0	.00	28.033	1465.7
1500	-.270	-.340	34.911	1480	4.2	.0	.00	28.074	1472.5
2000	-.405	-.505	34.936	1971	.7	.0	.00	28.101	1480.3
3000	-.336	-.514	34.953	2949	-.8	.0	.00	28.111	1497.7
3499	-.292	-.514	34.953	3435	-.6	.0	.00	28.109	1506.4



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

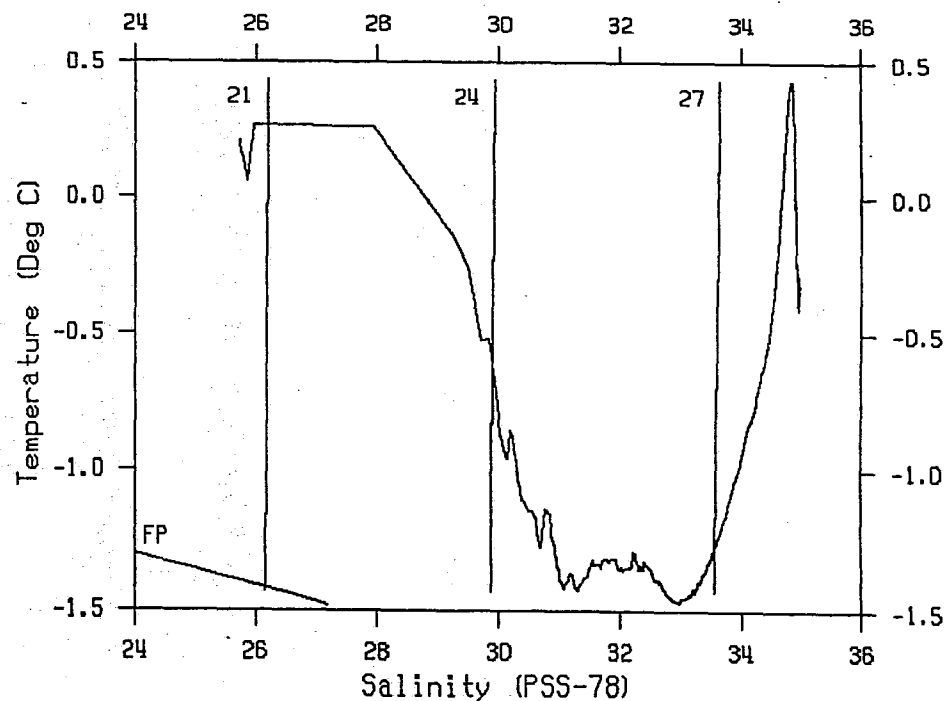
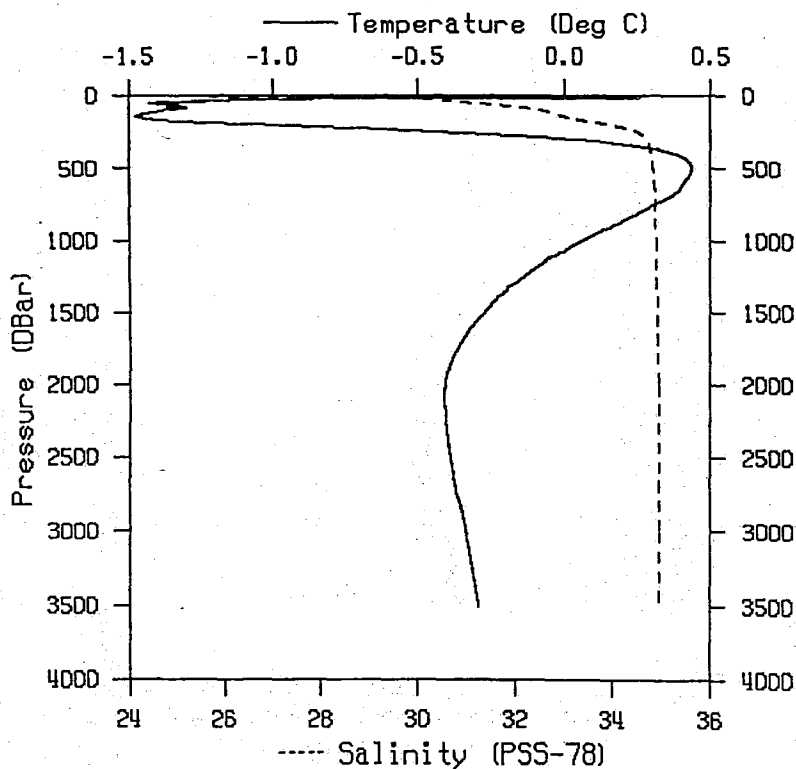
STATION : ARO9

REFERENCE NO.: 95-06-045

DATE/TIME : 22/08/95 14:31 UTC

POSITION : 72-45.1N 144-20.2W

Pres	Temp	Theta	Sal	Depth	SVR	% Tr	Chlo	Sig-t	Sound
5	.205	.205	25.730	5	713.0			20.650	1437.8
7	.201	.201	25.736	7	712.5			20.654	1437.8
10	.156	.156	25.761	10	710.3			20.676	1437.7
15	-.263	-.263	29.485	15	421.8			23.691	1440.8
20	-.876	-.877	30.045	20	376.9			24.161	1438.7
25	-.962	-.962	30.287	25	358.0			24.360	1438.7
30	-1.149	-1.149	30.503	30	340.9			24.539	1438.2
40	-1.255	-1.255	30.912	40	308.9			24.873	1438.4
50	-1.424	-1.425	31.090	50	294.7			25.021	1438.0
75	-1.362	-1.364	32.049	74	220.7			25.798	1440.0
100	-1.365	-1.367	32.519	99	184.4			26.179	1441.0
150	-1.455	-1.459	33.100	149	139.1			26.653	1442.2
200	-1.015	-1.020	33.936	198	76.3			27.317	1446.2
250	-.424	-.433	34.505	248	35.4			27.753	1450.6
350	.257	.243	34.745	347	20.9			27.912	1455.7
500	.435	.413	34.824	495	16.2			27.965	1459.1
1000	.066	.021	34.887	988	9.0			28.037	1465.7
1500	-.269	-.340	34.915	1480	4.0			28.077	1472.5
2000	-.405	-.505	34.939	1971	.4			28.104	1480.3
3000	-.337	-.515	34.954	2949	-.8			28.112	1497.7
3514	-.291	-.514	34.953	3450	-.6			28.109	1506.7

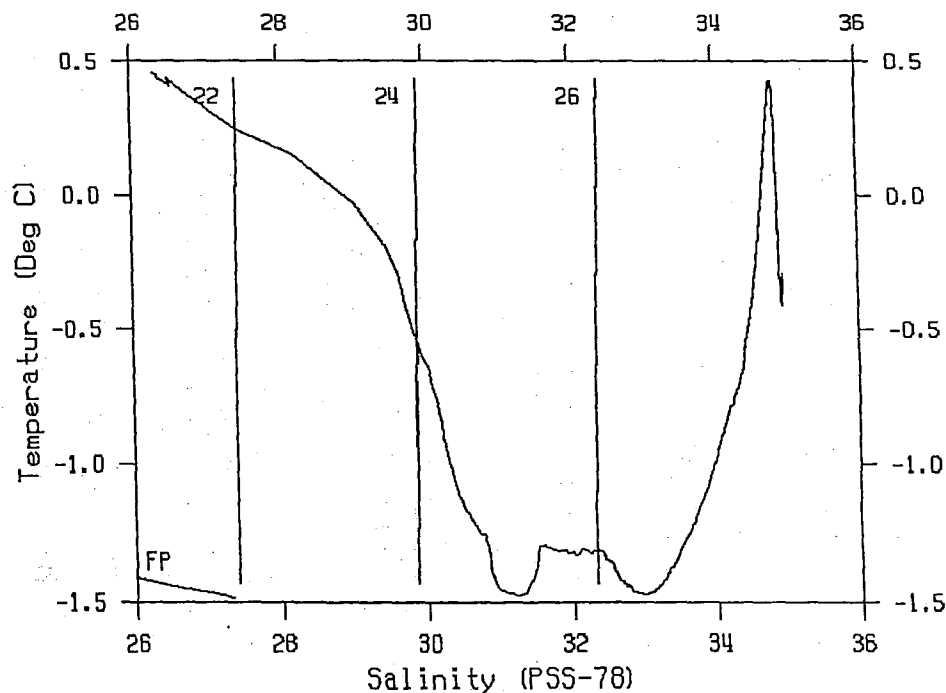
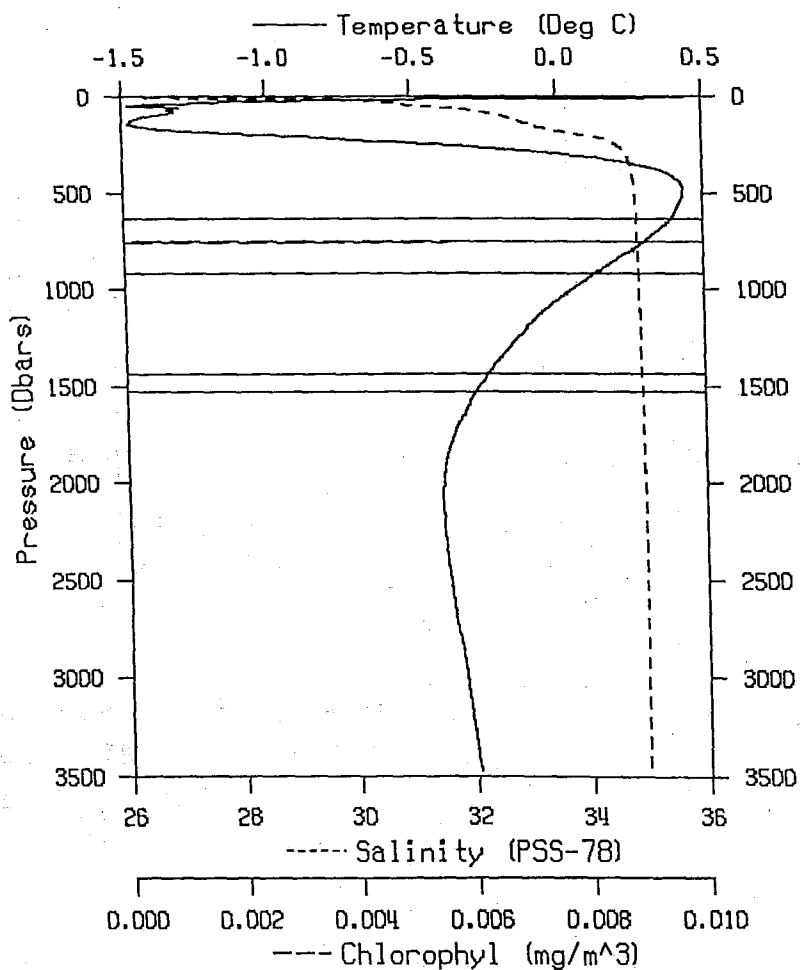




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-26-047  
 DATE/TIME : 22/08/95 21:00 UTC  
 POSITION : 72-40.2N 144-25.8W

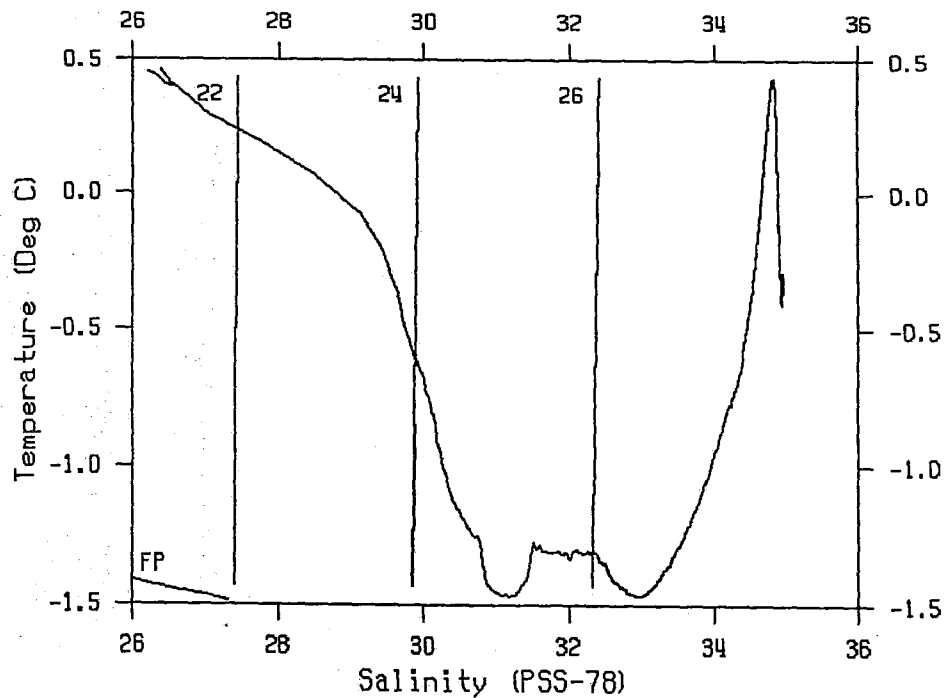
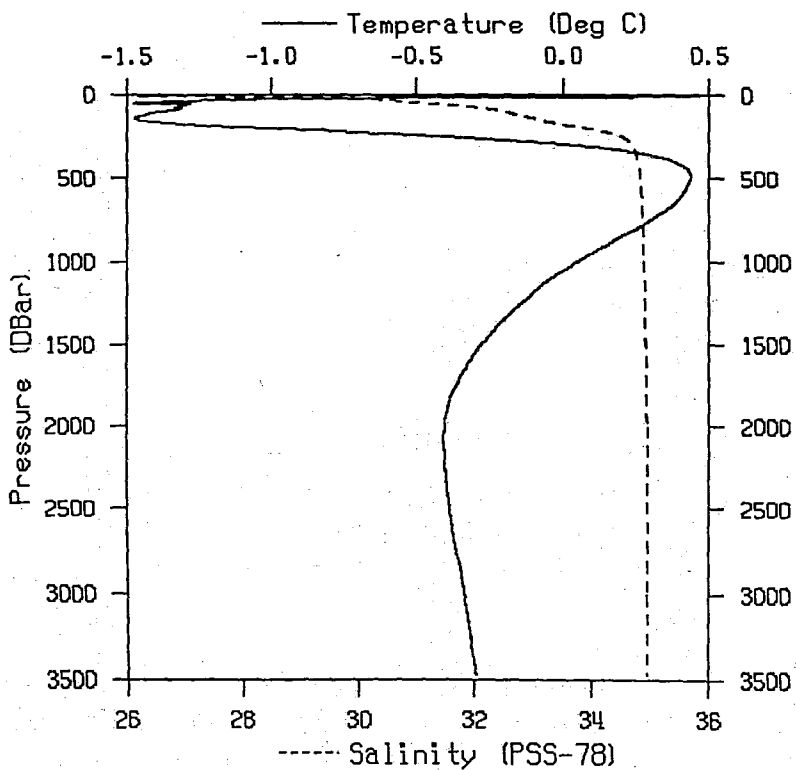
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	.411	.411	26.559	5	649.6	.0	.00	21.311	1439.9
7	.440	.440	26.510	7	653.4	.0	.00	21.270	1440.0
10	.244	.244	27.453	10	580.0	.0	.00	22.036	1440.4
15	-.433	-.434	29.770	15	399.3	.0	.00	23.927	1440.4
20	-.759	-.760	30.142	20	369.7	.0	.00	24.237	1439.4
25	-1.012	-1.012	30.330	25	354.5	.0	.00	24.396	1438.5
30	-1.166	-1.166	30.536	30	338.2	.0	.00	24.566	1438.2
40	-1.355	-1.356	30.858	40	312.8	.0	.00	24.831	1437.9
50	-1.476	-1.477	31.246	50	282.6	.0	.00	25.148	1438.0
75	-1.312	-1.314	32.135	74	214.3	.0	.00	25.866	1440.4
100	-1.386	-1.388	32.567	99	180.6	.0	.00	26.219	1441.0
150	-1.460	-1.463	33.118	149	137.7	.0	.00	26.667	1442.2
200	-.997	-1.003	33.976	198	73.2	.0	.00	27.349	1446.4
250	-.384	-.393	34.529	248	33.7	.0	.00	27.771	1450.8
350	.267	.253	34.750	347	20.6	.0	.00	27.916	1455.7
500	.432	.410	34.824	495	16.2	.0	.00	27.965	1459.0
1000	.048	.003	34.883	988	9.1	.0	.00	28.035	1465.6
1500	-.278	-.349	34.912	1480	4.1	.0	.00	28.075	1472.5
2000	-.406	-.506	34.936	1971	.7	.0	.00	28.101	1480.3
3000	-.336	-.514	34.954	2949	-.8	.0	.00	28.112	1497.7
3473	-.294	-.514	34.954	3410	-.6	.0	.00	28.110	1506.0

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-06-048  
 DATE/TIME : 22/08/95 21:07 UTC  
 POSITION : 72-40.2N 144-25.8W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	.410	.410	26.451	5	657.9			21.224	1439.7
7	.465	.465	26.388	7	662.9			21.171	1439.9
10	.288	.288	27.097	10	607.6			21.748	1440.1
15	-.357	-.357	29.621	15	411.1			23.804	1440.5
20	-.738	-.738	30.049	20	377.0			24.161	1439.4
25	-.980	-.981	30.255	25	360.4			24.334	1438.6
30	-1.156	-1.157	30.465	30	343.7			24.508	1438.1
40	-1.334	-1.335	30.821	40	315.7			24.801	1437.9
50	-1.474	-1.474	31.178	50	287.8			25.093	1437.9
75	-1.309	-1.311	32.086	74	218.0			25.827	1440.3
100	-1.376	-1.378	32.539	99	182.8			26.195	1441.0
150	-1.457	-1.461	33.088	149	140.0			26.643	1442.2
200	-1.016	-1.021	33.927	198	76.9			27.310	1446.2
250	-.395	-.403	34.508	248	35.3			27.754	1450.7
350	.267	.252	34.744	347	21.0			27.911	1455.7
500	.435	.413	34.822	495	16.4			27.964	1459.0
1000	.051	.006	34.883	988	9.1			28.035	1465.6
1500	-.277	-.347	34.913	1480	4.0			28.076	1472.5
2000	-.405	-.506	34.935	1971	.7			28.100	1480.3
3000	-.337	-.514	34.952	2949	-.7			28.111	1497.7
3471	-.294	-.514	34.951	3408	-.4			28.107	1505.9



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

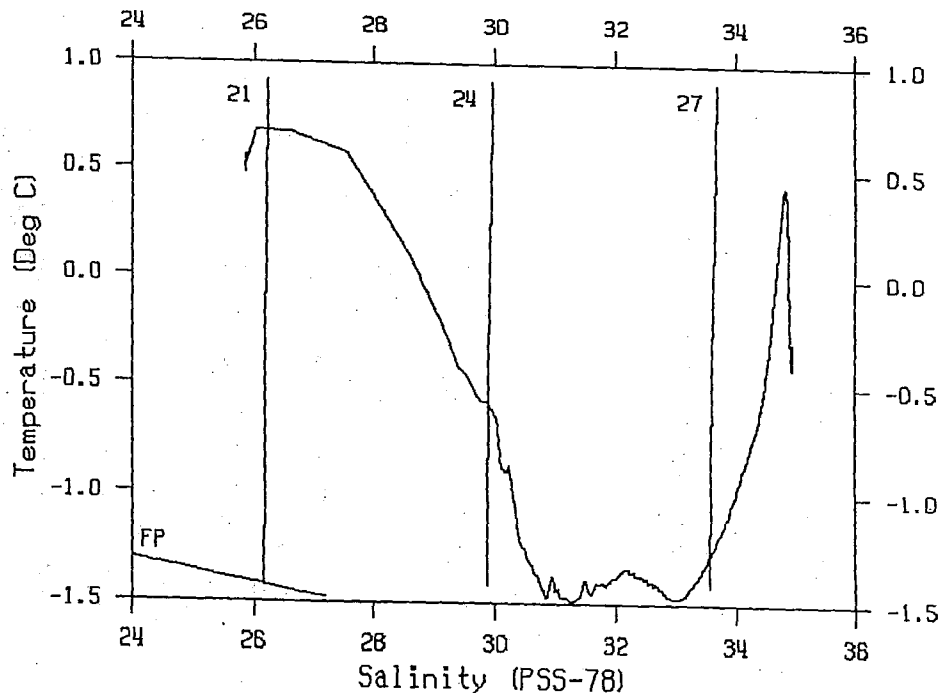
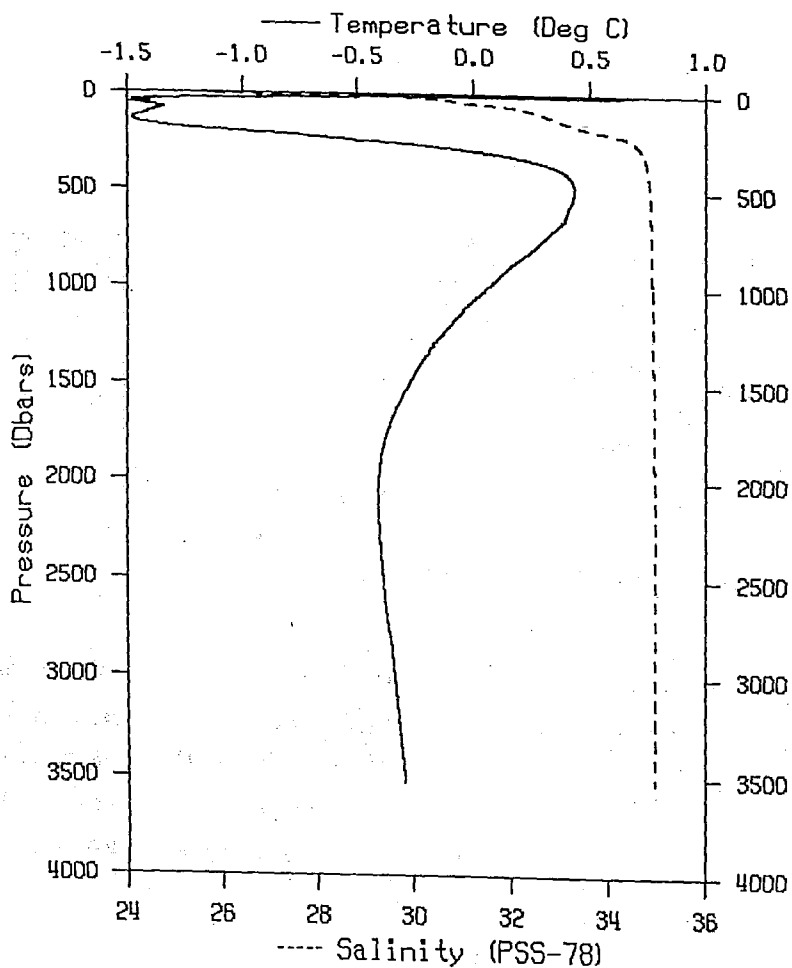
STATION : AR09

REFERENCE NO.: 95-26-050

DATE/TIME : 23/08/95 14:25 UTC

POSITION : 72-41.2N 144-41.8W

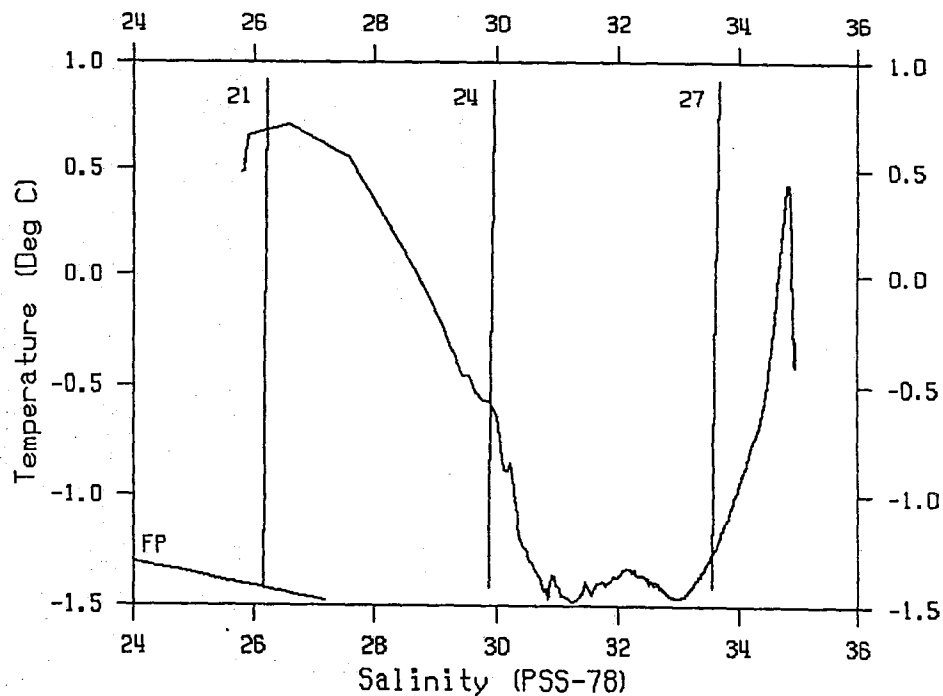
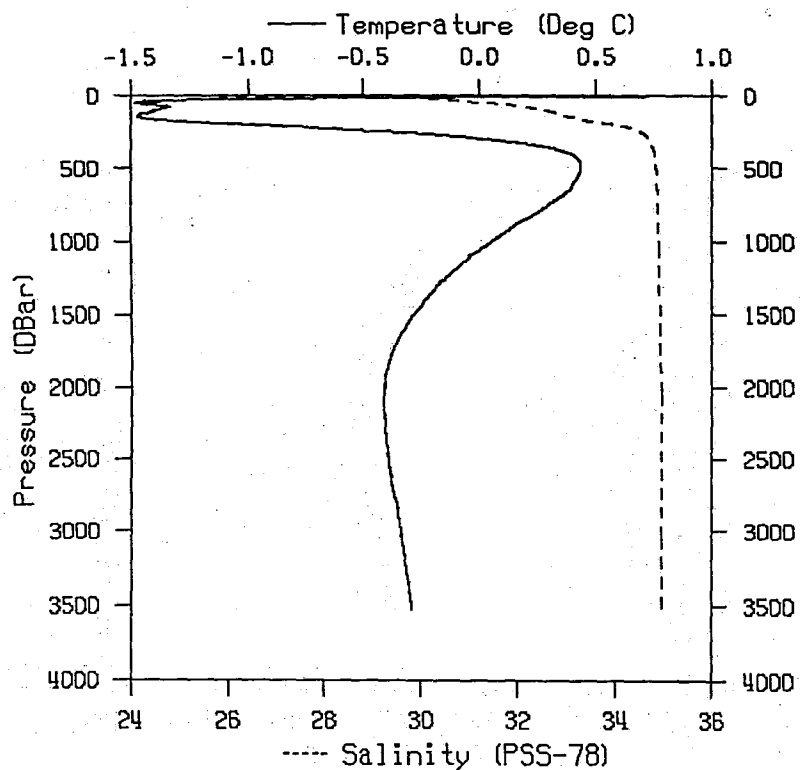
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	.566	.566	25.886	5	701.9	.0	.00	20.765	1439.7
7	.553	.553	25.899	7	700.9	.0	.00	20.776	1439.7
10	.559	.559	27.580	10	571.4	.0	.00	22.126	1442.0
15	-.456	-.456	29.538	15	417.2	.0	.00	23.739	1439.9
20	-.648	-.648	30.007	20	380.5	.0	.00	24.124	1439.7
25	-.929	-.929	30.270	25	359.4	.0	.00	24.344	1438.9
30	-1.285	-1.286	30.530	30	338.4	.0	.00	24.564	1437.6
40	-1.412	-1.413	30.907	40	309.0	.0	.00	24.872	1437.6
50	-1.488	-1.489	31.254	50	281.9	.0	.00	25.155	1437.9
75	-1.341	-1.342	32.166	74	211.7	.0	.00	25.892	1440.3
100	-1.397	-1.399	32.554	99	181.6	.0	.00	26.208	1440.9
150	-1.465	-1.468	33.098	149	139.2	.0	.00	26.652	1442.1
200	-1.016	-1.021	33.959	198	74.5	.0	.00	27.336	1446.3
250	-.397	-.406	34.527	248	33.8	.0	.00	27.770	1450.7
350	.270	.256	34.751	347	20.5	.0	.00	27.916	1455.7
500	.431	.409	34.825	495	16.1	.0	.00	27.966	1459.0
1000	.056	.011	34.881	988	9.3	.0	.00	28.033	1465.6
1500	-.277	-.347	34.911	1480	4.2	.0	.00	28.074	1472.5
2000	-.407	-.507	34.936	1971	.6	.0	.00	28.101	1480.3
3000	-.336	-.514	34.953	2949	-.7	.0	.00	28.111	1497.7
3529	-.289	-.514	34.950	3464	-.3	.0	.00	28.107	1507.0



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO9  
 REFERENCE NO.: 95-06-051  
 DATE/TIME : 23/08/95 14:26 UTC  
 POSITION : 72-41.2N 144-41.8W

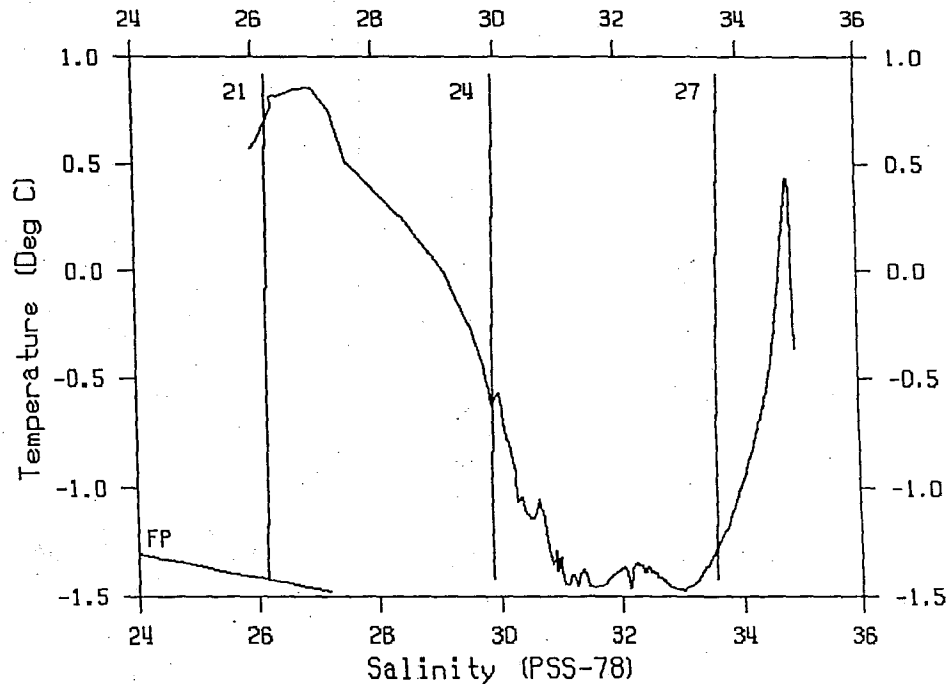
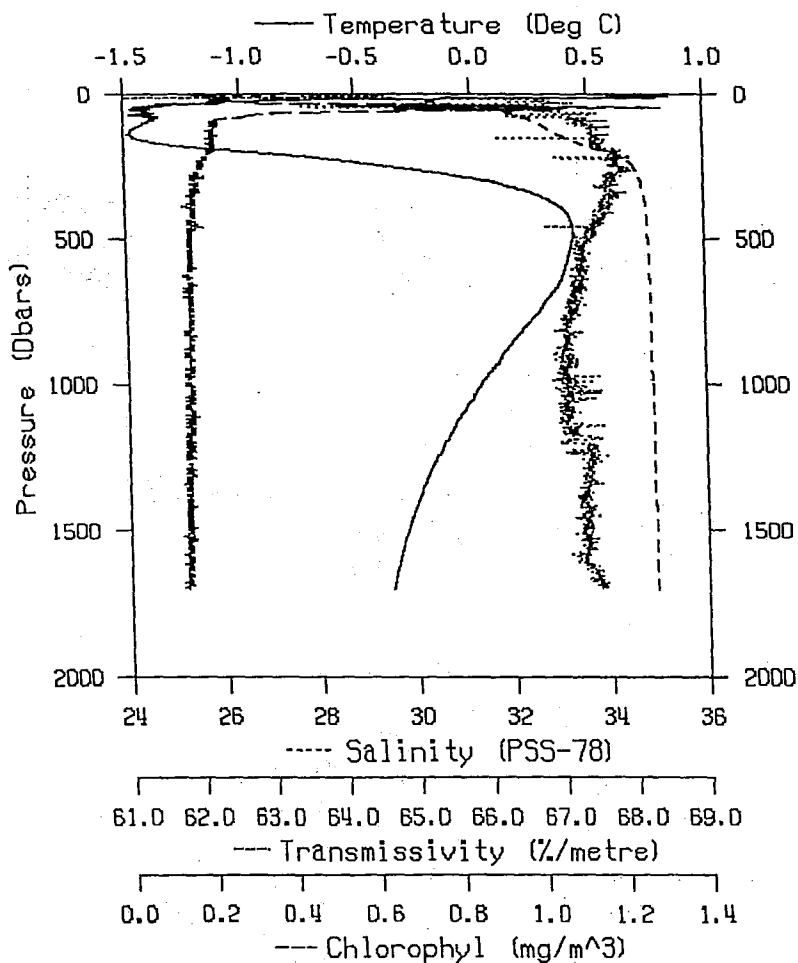
Pres	Temp	Theta	Sal	Dept	SVR	Z Tr Chlo	Sig-t	Sound
5	.544	.544	25.852	5	704.5		20.738	1439.5
7	.533	.533	25.854	7	704.3		20.740	1439.5
10	.709	.708	26.601	10	647.3		21.334	1441.4
15	-.450	-.451	29.428	15	425.7		23.650	1439.8
20	-.611	-.612	29.930	20	366.5		24.061	1439.8
25	-.855	-.856	30.216	25	363.7		24.299	1439.1
30	-1.239	-1.240	30.462	30	343.8		24.507	1437.7
40	-1.462	-1.462	30.853	40	313.0		24.830	1437.3
50	-1.467	-1.467	31.149	50	290.1		25.070	1437.9
75	-1.338	-1.339	32.110	74	216.1		25.847	1440.2
100	-1.395	-1.397	32.525	99	183.8		26.185	1440.9
150	-1.458	-1.461	33.078	149	140.7		26.635	1442.2
200	-1.020	-1.025	33.929	198	76.7		27.312	1446.2
250	-.415	-.423	34.509	248	35.1		27.757	1450.6
350	.272	.257	34.746	347	20.9		27.912	1455.7
1000	.058	.013	34.883	988	9.2		28.034	1465.7
1500	-.276	-.347	34.914	1480	4.0		28.076	1472.5
2000	-.405	-.506	34.936	1971	.7		28.101	1480.3
3000	-.337	-.514	34.952	2949	-.7		28.111	1497.7
3527	-.289	-.514	34.952	3462	-.5		28.108	1506.9

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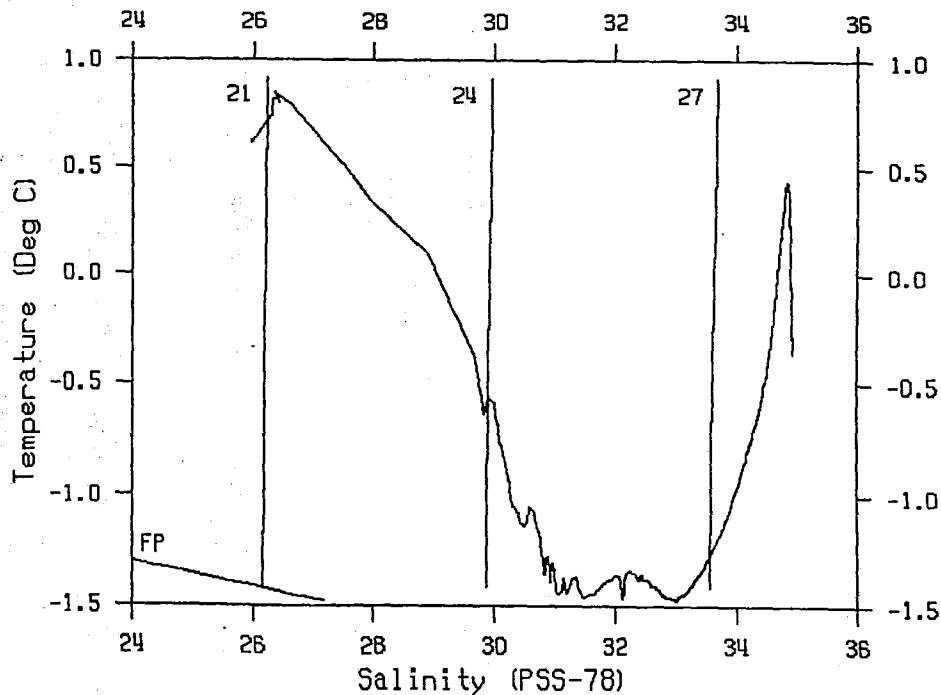
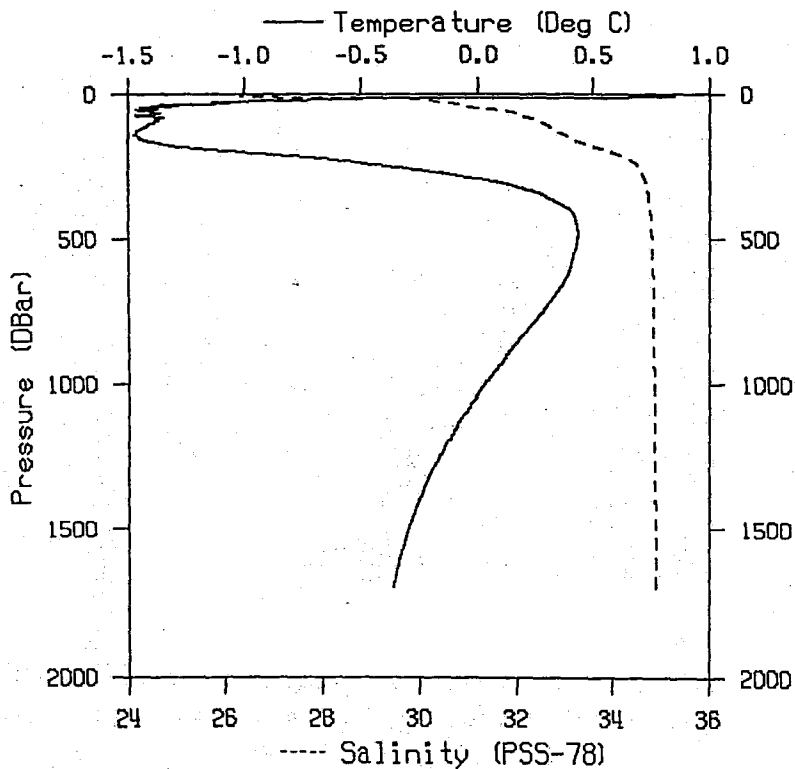
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-26-053  
 DATE/TIME : 23/08/95 20:04 UTC  
 POSITION : 72-37.2N 144-43.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	.818	.818	26.375	5	665.1	64.6	.19	21.149	1441.5
7	.821	.821	26.457	7	658.8	64.5	.21	21.214	1441.7
10	.854	.854	26.972	10	619.3	64.4	.23	21.626	1442.5
15	-.231	-.231	29.501	15	420.7	64.7	.22	23.703	1441.0
20	-.722	-.723	30.086	20	374.1	66.7	.22	24.191	1439.5
25	-1.056	-1.057	30.302	25	356.6	66.3	.31	24.374	1438.3
30	-1.136	-1.136	30.542	30	337.8	67.0	.32	24.570	1438.3
40	-1.288	-1.289	30.911	40	308.9	65.9	.98	24.873	1438.2
50	-1.449	-1.450	31.254	50	282.0	65.9	.86	25.155	1438.1
75	-1.454	-1.456	32.147	74	213.0	66.5	.31	25.879	1439.7
100	-1.392	-1.394	32.554	99	181.5	67.2	.21	26.208	1440.9
150	-1.453	-1.456	33.118	149	137.7	67.5	.21	26.667	1442.2
200	-1.011	-1.016	33.970	198	73.6	67.8	.22	27.345	1446.3
250	-.379	-.388	34.535	248	33.3	67.7	.19	27.776	1450.8
350	.277	.263	34.755	347	20.3	67.8	.16	27.919	1455.8
500	.431	.409	34.827	495	15.9	67.4	.16	27.968	1459.0
1000	.027	-.017	34.883	988	9.0	67.1	.15	28.036	1465.5
1500	-.295	-.365	34.912	1480	3.9	67.3	.14	28.076	1472.4
1701	-.362	-.444	34.923	1677	2.3	67.5	.14	28.089	1475.5



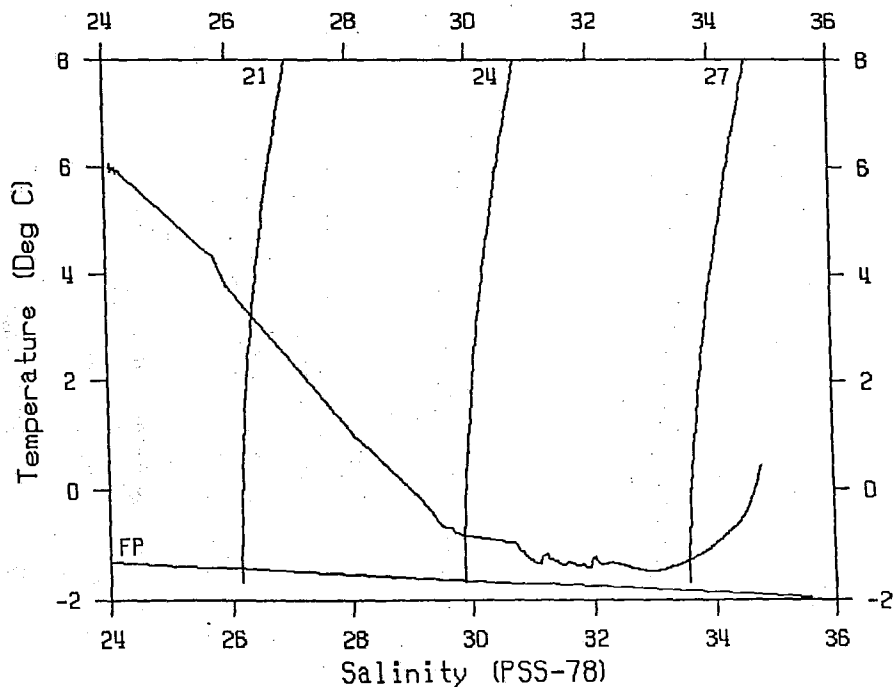
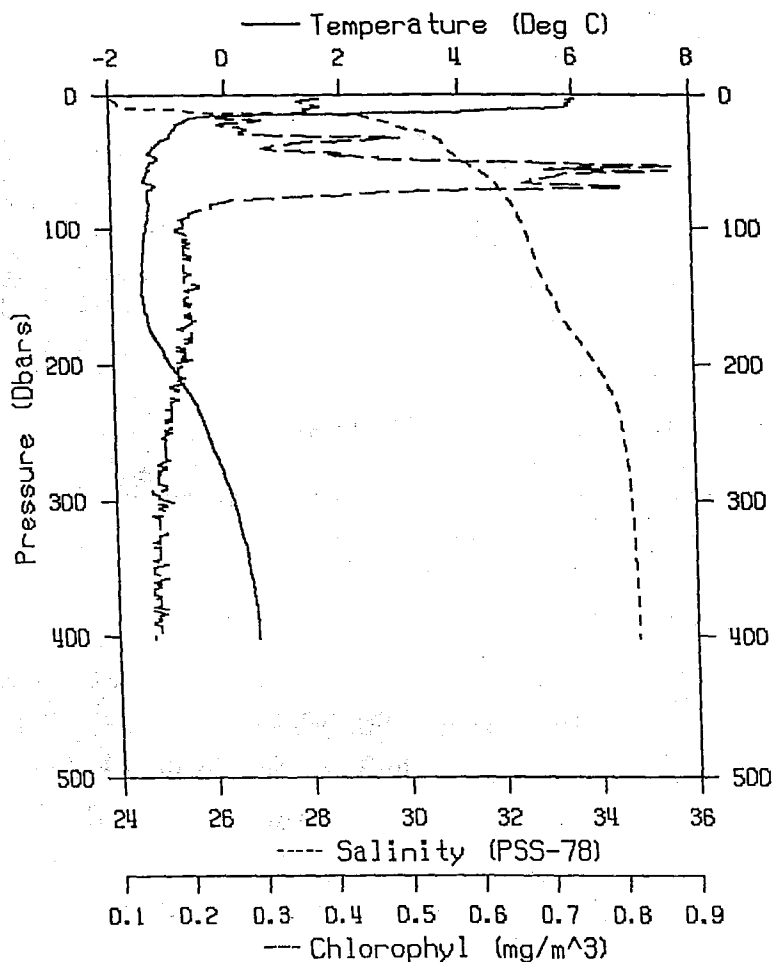
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR09  
 REFERENCE NO.: 95-06-054  
 DATE/TIME : 23/08/95 20:04 UTC  
 POSITION : 72-37.2N 144-43.7W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr Chlo	Sig-t	Sound
5	.818	.818	26.389	5	664.1		21.160	1441.5
7	.839	.839	26.371	7	665.5		21.145	1441.6
10	.792	.791	26.616	10	646.4		21.343	1441.8
15	-.370	-.370	29.653	15	408.6		23.630	1440.5
20	-.770	-.770	30.093	20	373.5		24.198	1439.3
25	-1.048	-1.049	30.316	25	355.5		24.385	1438.3
30	-1.122	-1.123	30.548	30	337.4		24.575	1438.4
40	-1.338	-1.339	30.926	40	307.7		24.886	1438.0
50	-1.414	-1.414	31.263	50	281.4		25.161	1438.3
75	-1.445	-1.446	32.139	74	213.6		25.873	1439.7
100	-1.389	-1.391	32.550	99	181.9		26.205	1441.0
150	-1.450	-1.453	33.114	149	138.0		26.664	1442.2
200	-1.001	-1.006	33.970	198	73.7		27.344	1446.3
250	-.372	-.381	34.533	248	33.5		27.773	1450.9
350	.282	.268	34.756	347	20.3		27.920	1455.8
500	.433	.411	34.829	495	15.8		27.969	1459.0
1000	.028	-.017	34.884	988	8.9		28.037	1465.5
1500	-.294	-.364	34.913	1480	3.9		28.077	1472.4
1700	-.360	-.442	34.924	1676	2.3		28.089	1475.4



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO8  
 REFERENCE NO.: 95-26-055  
 DATE/TIME : 24/08/95 15:30 UTC  
 POSITION : 71-52.4N 141-40.0W

Pres	Temp	Theta	Sal	Dept	SVR	Z Tr	Chlo	Sig-t	Sound
5	5.963	5.963	24.136	5	870.7	.0	.36	19.010	1461.0
7	5.881	5.881	24.196	7	865.3	.0	.37	19.066	1460.8
10	5.254	5.253	24.651	10	809.8	.0	.37	19.643	1459.0
15	-.040	-.040	29.027	15	457.9	.0	.28	23.313	1441.2
20	-.670	-.670	29.680	20	407.1	.0	.30	23.845	1439.2
25	-.847	-.847	30.060	25	375.7	.0	.28	24.173	1439.0
30	-.935	-.936	30.654	30	329.7	.0	.33	24.656	1439.4
40	-1.224	-1.224	30.935	40	307.2	.0	.31	24.891	1438.6
50	-1.254	-1.255	31.301	50	278.9	.0	.60	25.188	1439.1
75	-1.345	-1.347	32.147	74	213.2	.0	.44	25.877	1440.2
100	-1.389	-1.391	32.546	99	182.2	.0	.19	26.201	1440.9
150	-1.462	-1.465	33.089	149	139.9	.0	.21	26.644	1442.1
200	-1.000	-1.005	33.976	198	73.2	.0	.20	27.349	1446.4
250	-.408	-.417	34.512	248	34.9	.0	.17	27.758	1450.7
350	.282	.268	34.754	347	20.4	.0	.15	27.917	1455.8
402	.417	.400	34.794	398	18.3	.0	.15	27.942	1457.3



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

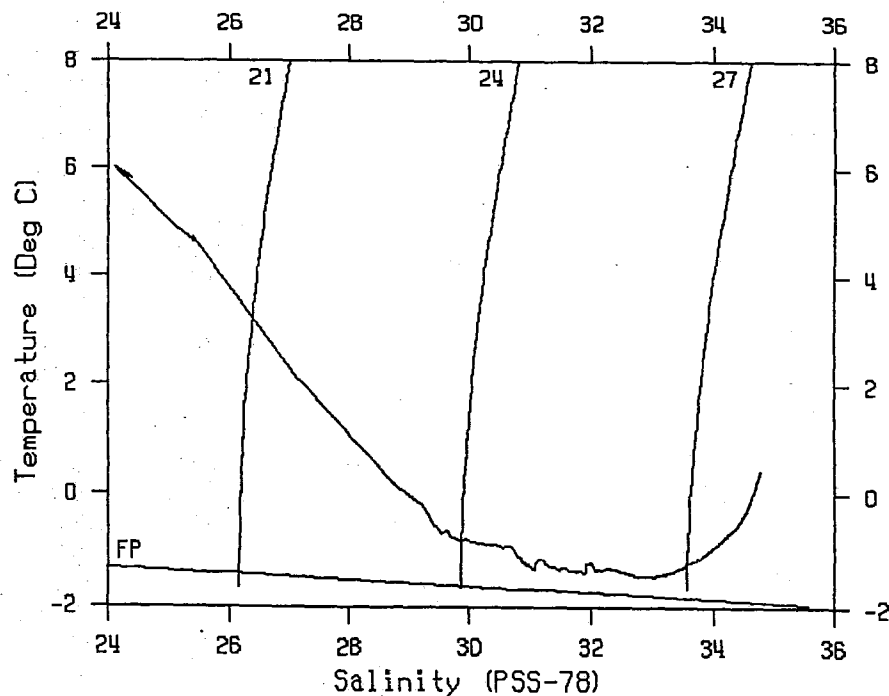
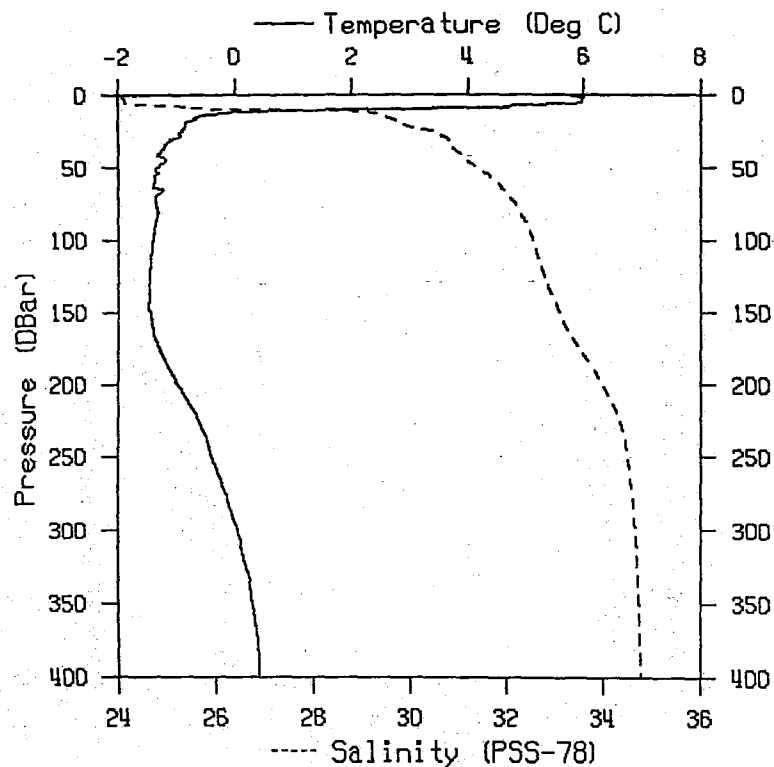
STATION : ARO8

REFERENCE NO.: 95-06-056

DATE/TIME : 24/08/95 15:33 UTC

POSITION : 71-52.4N 141-40.0W

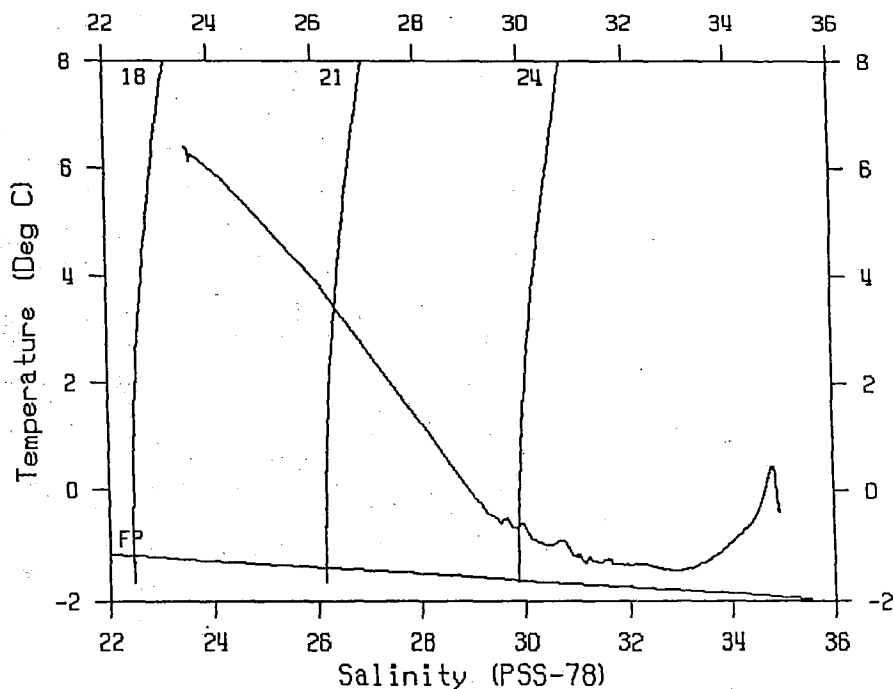
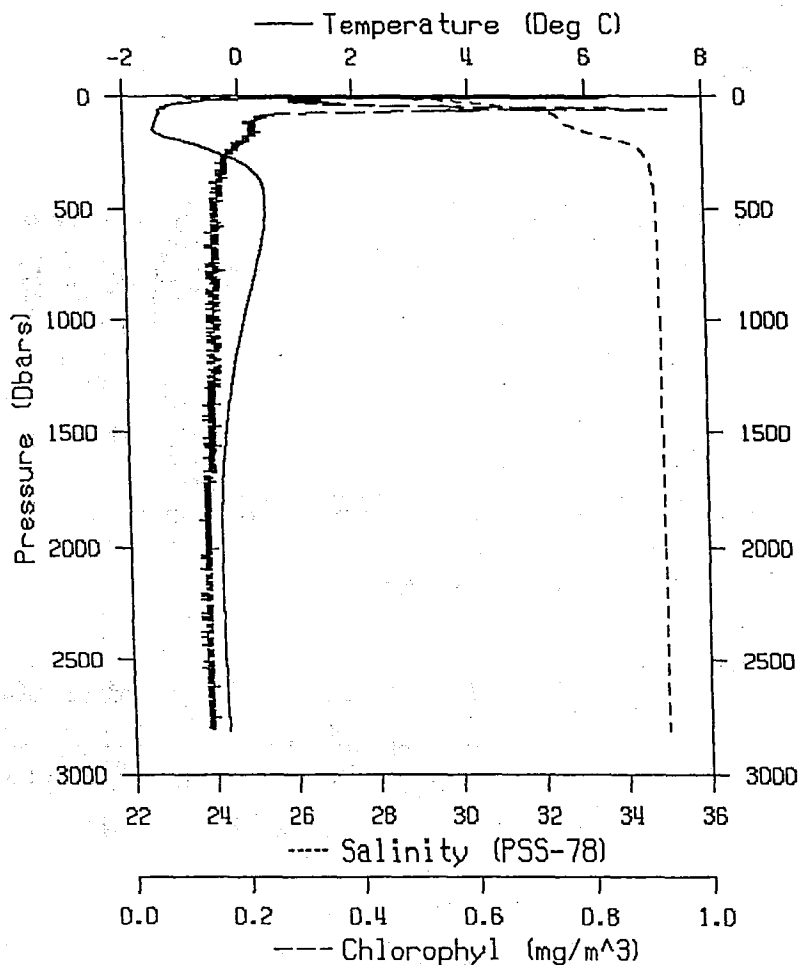
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.951	5.951	24.163	5	868.5			19.033	1461.0
7	4.912	4.911	25.108	7	787.3			19.877	1457.9
10	2.075	2.075	27.154	10	611.0			21.713	1448.3
15	-.640	-.640	29.499	15	419.7			23.713	1439.0
20	-.823	-.823	29.880	20	389.8			24.027	1438.7
25	-.886	-.886	30.434	25	346.8			24.476	1439.3
30	-1.088	-1.089	30.786	30	319.1			24.767	1438.9
40	-1.291	-1.292	31.018	40	300.6			24.960	1438.4
50	-1.306	-1.307	31.424	50	269.2			25.290	1439.0
75	-1.341	-1.343	32.187	74	210.2			25.909	1440.3
100	-1.393	-1.395	32.560	99	181.1			26.213	1440.9
150	-1.438	-1.441	33.103	149	138.9			26.655	1442.3
200	-.959	-.965	33.991	198	72.3			27.359	1446.6
250	-.381	-.389	34.507	248	35.4			27.753	1450.8
350	.295	.281	34.747	347	21.0			27.912	1455.9
399	.421	.404	34.786	395	18.9			27.936	1457.3





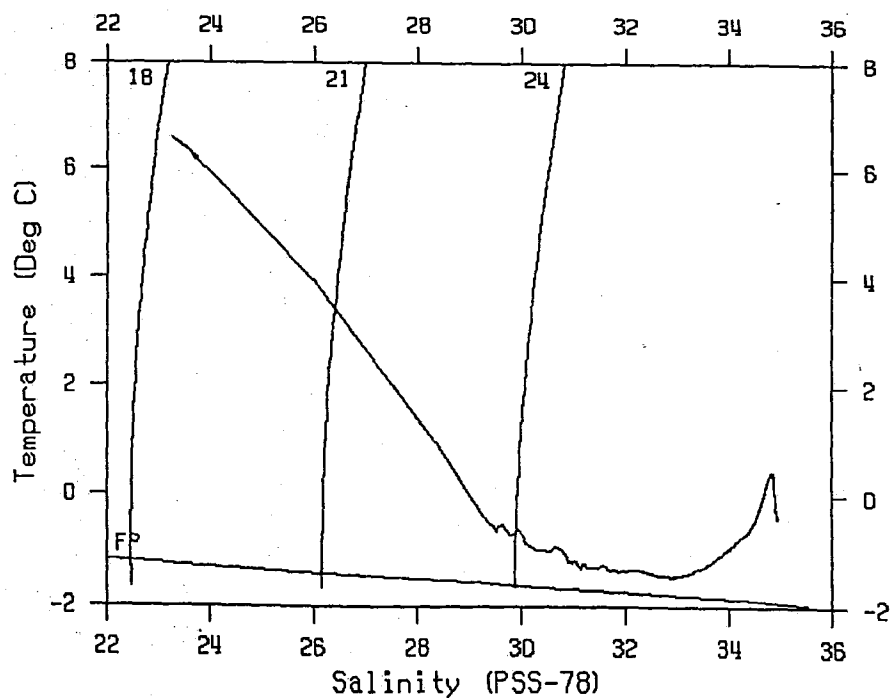
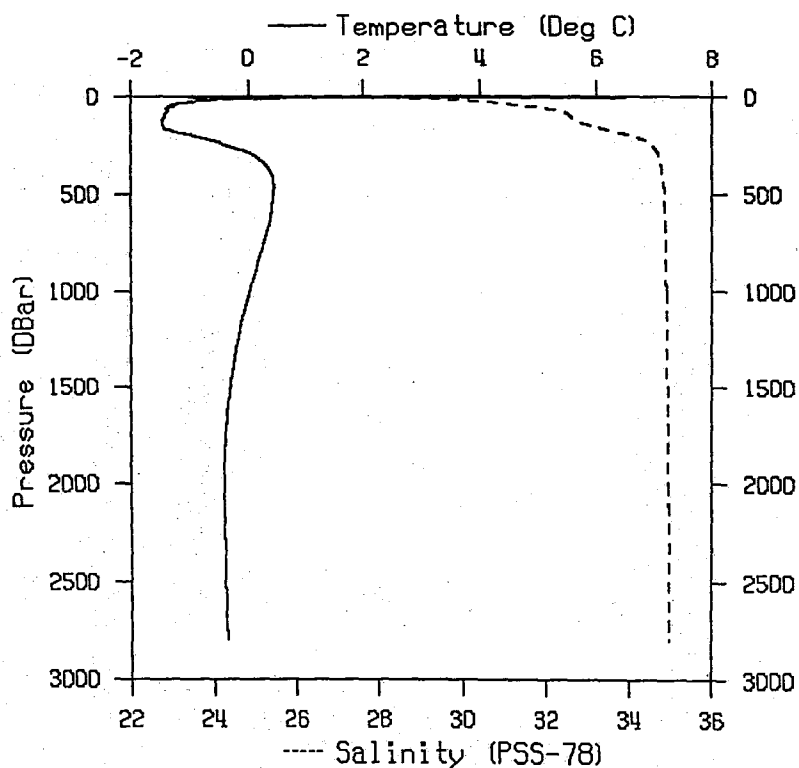
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO8  
 REFERENCE NO.: 95-26-057  
 DATE/TIME : 24/08/95 18:40 UTC  
 POSITION : 71-50.9N 141-36.3W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	6.366	6.366	23.561	5	918.2	.0	.42	18.517	1461.9
7	6.116	6.115	23.612	7	911.9	.0	.40	18.562	1461.0
10	5.798	5.797	24.222	10	862.5	.0	.40	19.095	1460.5
15	-.452	-.452	29.338	15	432.6	.0	.33	23.578	1439.7
20	-.608	-.608	29.721	20	402.6	.0	.31	23.892	1439.6
25	-.826	-.827	30.085	25	373.9	.0	.36	24.192	1439.1
30	-1.002	-1.003	30.385	30	350.3	.0	.31	24.440	1438.7
40	-1.223	-1.224	30.979	40	303.9	.0	.40	24.926	1438.6
50	-1.301	-1.302	31.299	50	278.9	.0	.71	25.187	1438.9
75	-1.358	-1.360	32.306	74	201.0	.0	.34	26.006	1440.4
100	-1.419	-1.421	32.558	99	181.2	.0	.24	26.212	1440.8
150	-1.449	-1.452	33.057	149	142.4	.0	.23	26.618	1442.2
200	-.948	-.954	34.033	198	69.1	.0	.20	27.393	1446.7
250	-.382	-.390	34.533	246	33.5	.0	.19	27.774	1450.8
350	.299	.284	34.750	347	20.8	.0	.16	27.914	1455.9
500	.436	.414	34.827	495	16.0	.0	.15	27.968	1459.1
1000	.024	-.021	34.881	988	9.1	.0	.16	28.035	1465.5
1500	-.309	-.379	34.913	1480	3.7	.0	.14	28.078	1472.3
2000	-.412	-.512	34.940	1971	.3	.0	.13	28.105	1480.3
2806	-.351	-.512	34.953	2759	-.8	.0	.14	28.113	1494.3



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO8  
 REFERENCE NO.: 95-06-058  
 DATE/TIME : 24/08/95 18:40 UTC  
 POSITION : 71-50.9N 141-36.3W

Pres	Temp	Theta	Sal	Dept	SWA	Z Tr	Chlo	Sig-t	Sound
5	6.287	6.287	23.633	5	912.0			18.582	1461.7
7	5.869	5.869	24.058	7	875.7			18.958	1460.5
10	.105	.104	28.920	10	466.6			23.222	1441.7
15	-.555	-.555	29.563	15	414.9			23.763	1439.5
20	-.615	-.615	29.917	20	387.5			24.050	1439.8
25	-.976	-.976	30.245	25	361.2			24.326	1438.6
30	-.964	-.964	30.727	30	324.0			24.715	1439.4
40	-1.189	-1.190	31.030	40	300.0			24.967	1438.9
50	-1.318	-1.319	31.455	50	266.8			25.314	1439.0
75	-1.368	-1.370	32.365	74	196.4			26.055	1440.4
100	-1.416	-1.418	32.561	99	180.9			26.215	1440.8
150	-1.443	-1.446	33.083	149	140.4			26.639	1442.2
200	-.900	-.905	34.072	198	66.3			27.423	1447.0
250	-.351	-.359	34.539	248	33.2			27.777	1451.0
350	.311	.296	34.751	347	20.8			27.914	1455.9
500	.438	.417	34.828	495	15.9			27.968	1459.1
1000	.022	-.023	34.882	988	9.0			28.036	1465.5
1500	-.309	-.379	34.914	1480	3.7			28.078	1472.3
2000	-.411	-.511	34.939	1971	.4			28.104	1480.3
2803	-.351	-.512	34.952	2756	-.7			28.111	1494.2



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

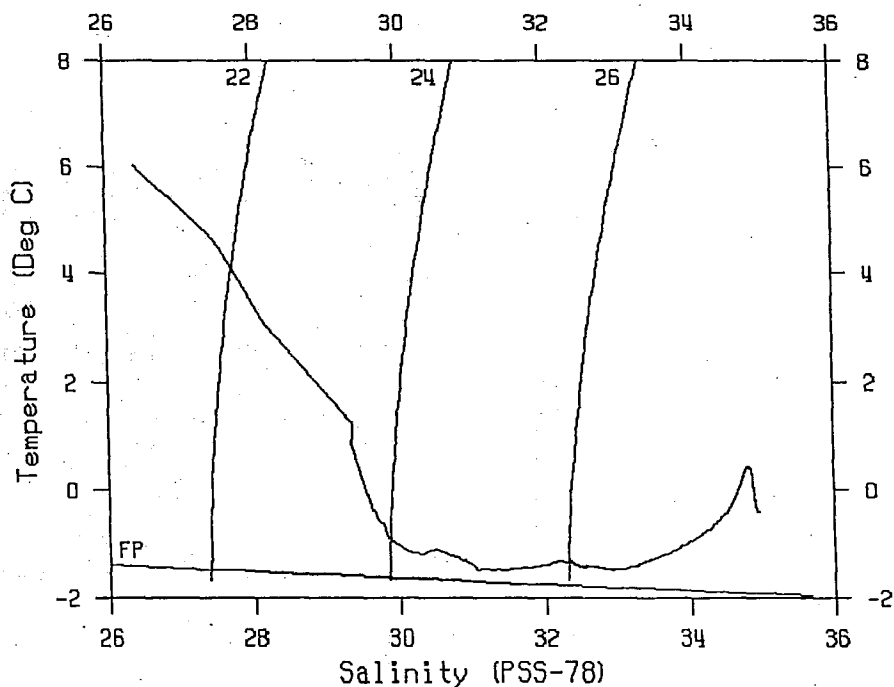
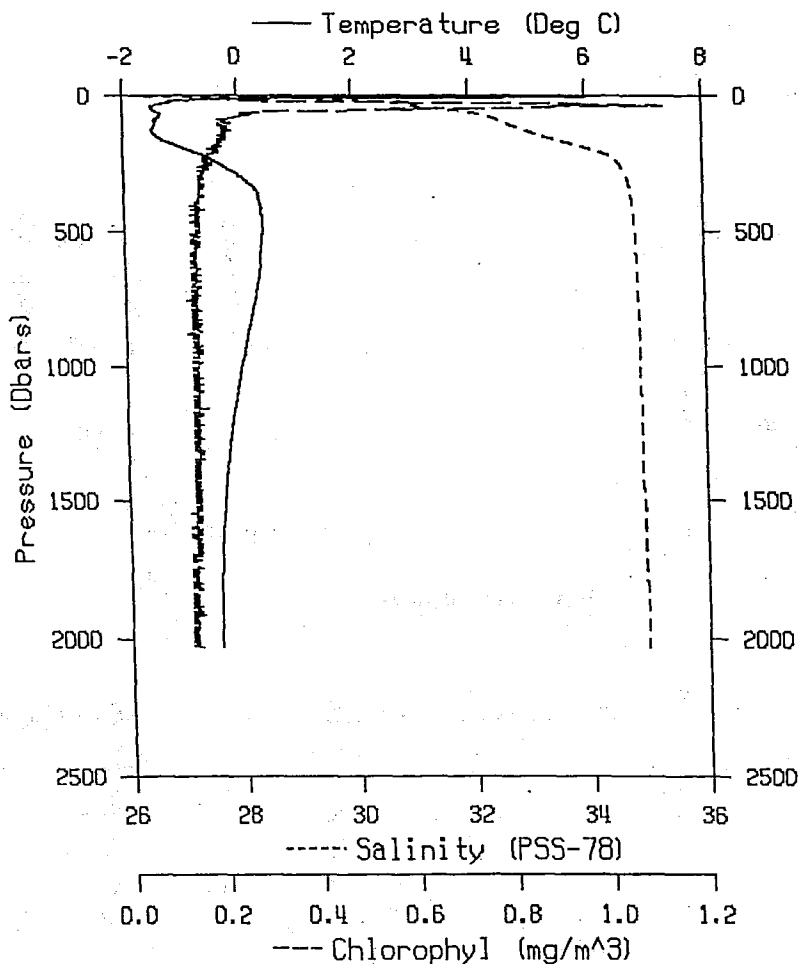
STATION : AR07

REFERENCE NO.: 95-26-059

DATE/TIME : 24/08/95 01:25 UTC

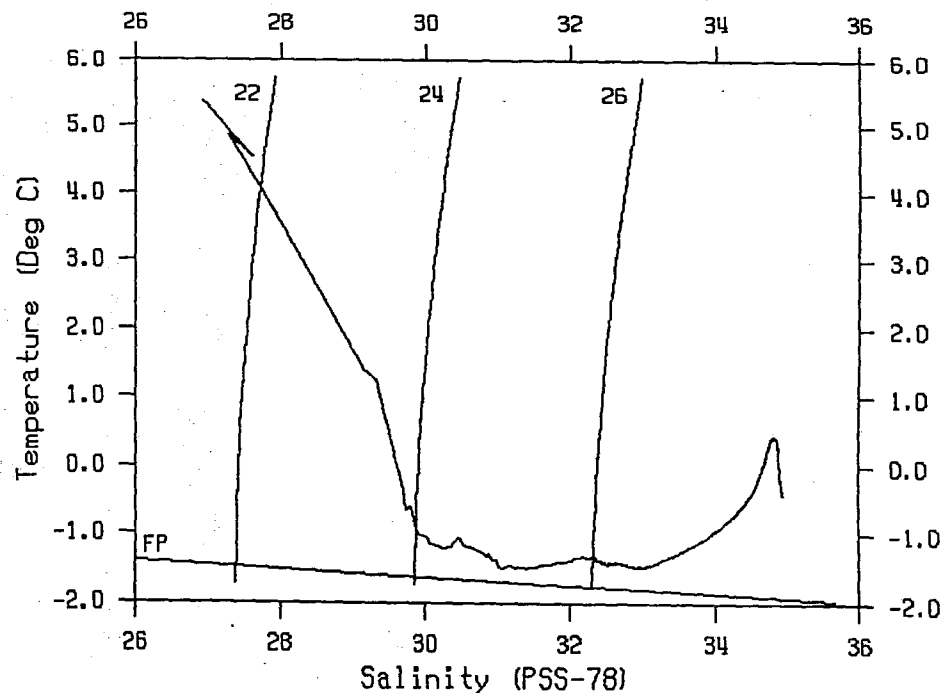
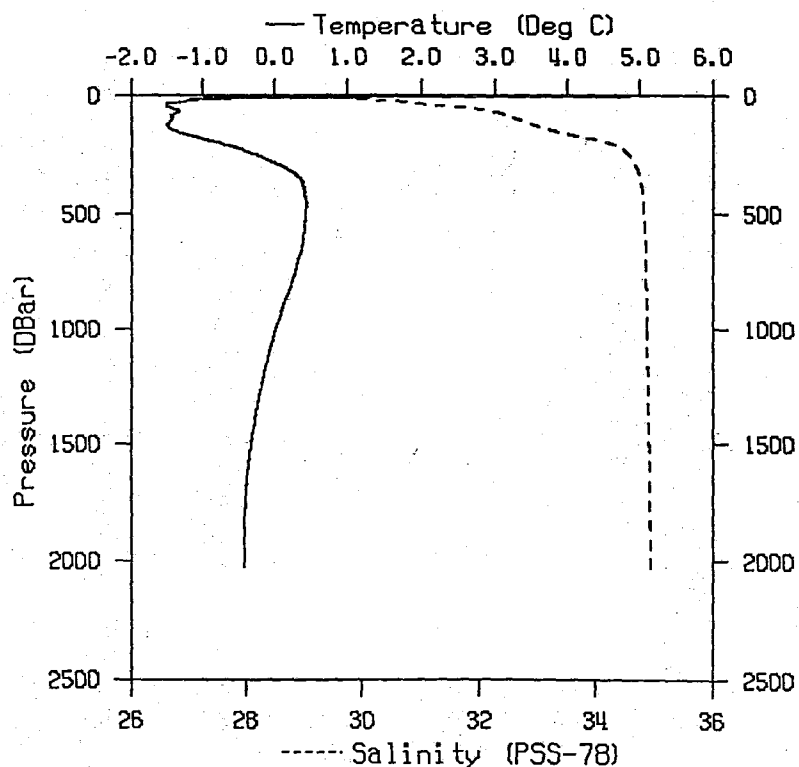
POSITION : 71-12.4N 139-20.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.398	5.398	26.889	5	656.5	.0	.38	21.239	1462.1
7	4.475	4.474	27.550	7	598.0	.0	.36	21.850	1459.2
10	1.001	1.001	29.365	10	436.1	.0	.32	23.542	1446.4
15	-.601	-.602	29.730	15	402.0	.0	.21	23.899	1439.5
20	-1.152	-1.152	30.111	20	371.1	.0	.28	24.222	1437.5
25	-1.166	-1.166	30.564	25	336.1	.0	.44	24.588	1438.1
30	-1.322	-1.323	30.875	30	311.7	.0	.95	24.845	1437.9
40	-1.475	-1.476	31.146	40	290.4	.0	.89	25.067	1437.7
50	-1.477	-1.478	31.579	50	256.9	.0	.53	25.419	1438.4
75	-1.335	-1.336	32.340	74	198.4	.0	.24	26.033	1440.5
100	-1.430	-1.432	32.636	99	175.2	.0	.22	26.275	1440.9
150	-1.393	-1.396	33.285	149	125.1	.0	.21	26.802	1442.7
200	-.806	-.812	34.199	198	57.0	.0	.19	27.523	1447.6
250	-.293	-.301	34.568	248	31.3	.0	.18	27.798	1451.3
350	.342	.327	34.761	347	20.3	.0	.16	27.920	1456.1
500	.426	.405	34.827	495	15.9	.0	.15	27.968	1459.0
1000	.019	-.025	34.882	988	9.0	.0	.15	28.035	1465.5
1500	-.316	-.386	34.914	1480	3.6	.0	.15	28.079	1472.3
2000	-.411	-.512	34.948	1971	-.3	.0	.14	28.111	1480.3
2030	-.410	-.512	34.951	2000	-.5	.0	.15	28.114	1480.8



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR07  
 REFERENCE NO.: 95-06-060  
 DATE/TIME : 25/08/95 01:32 UTC  
 POSITION : 71-12.4N 139-20.4W

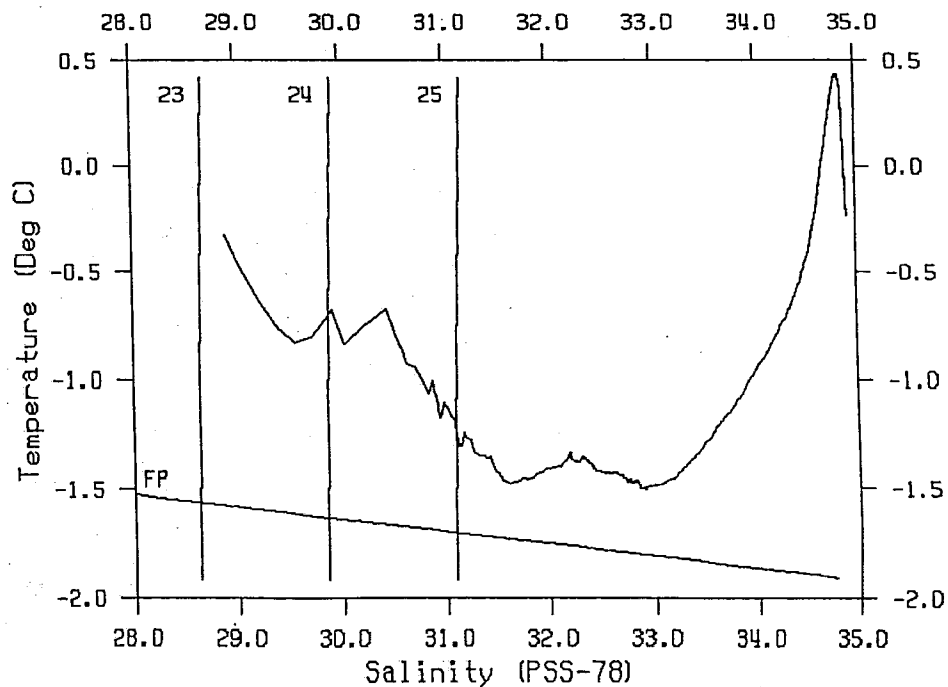
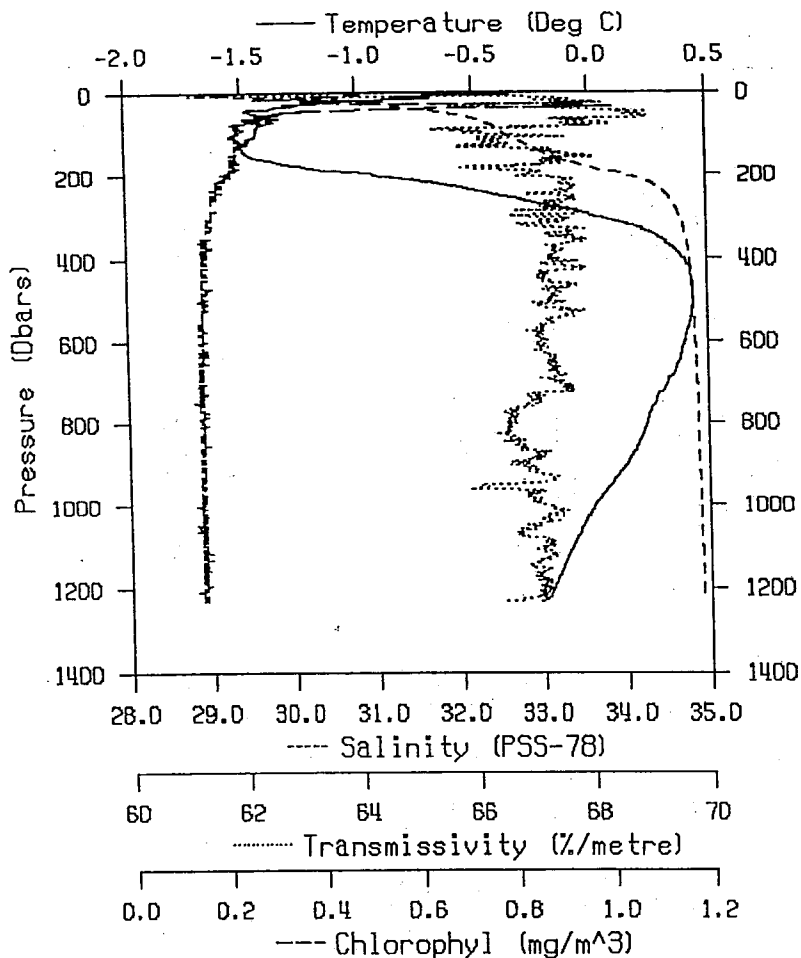
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	4.841	4.841	27.295	5	620.6			21.614	1460.3
7	1.410	1.410	29.162	7	453.8			23.357	1447.9
10	.408	.407	29.530	10	420.8			23.702	1443.9
15	-.938	-.938	29.882	15	389.4			24.031	1438.1
20	-1.211	-1.212	30.256	20	359.9			24.340	1437.4
25	-1.231	-1.232	30.671	25	327.7			24.677	1438.0
30	-1.339	-1.340	30.904	30	309.4			24.868	1437.8
40	-1.456	-1.457	31.178	40	288.0			25.093	1437.8
50	-1.446	-1.446	31.635	50	252.6			25.464	1438.6
75	-1.331	-1.332	32.335	74	198.8			26.029	1440.5
100	-1.420	-1.422	32.632	99	175.5			26.272	1440.9
150	-1.382	-1.385	33.279	149	125.5			26.797	1442.8
200	-.792	-.798	34.194	198	57.5			27.517	1447.6
250	-.276	-.285	34.560	248	31.9			27.791	1451.3
350	.346	.332	34.755	347	20.7			27.915	1456.1
500	.428	.407	34.822	495	16.3			27.964	1459.0
1000	.020	-.025	34.879	988	9.2			28.033	1465.5
1500	-.315	-.385	34.911	1480	3.8			28.076	1472.3
2000	-.411	-.511	34.943	1971	.1			28.107	1480.3
2029	-.409	-.512	34.946	1999	-.1			28.109	1480.8



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR06  
 REFERENCE NO.: 95-26-061  
 DATE/TIME : 25/08/95 14:45 UTC  
 POSITION : 70-36.5N 137-22.1W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
7	-.651	-.651	29.241	7	439.6	62.8	.47	23.505	1438.5
10	-.805	-.805	29.718	10	402.4	66.9	.36	23.895	1438.5
15	-.680	-.680	30.434	15	347.5	67.7	.27	24.471	1440.1
20	-1.059	-1.060	30.838	20	315.3	67.4	.54	24.809	1438.9
25	-1.123	-1.123	31.009	25	301.9	68.0	.43	24.948	1438.9
30	-1.306	-1.306	31.146	30	290.9	66.3	.88	25.063	1438.3
40	-1.428	-1.428	31.491	40	263.9	67.8	.54	25.346	1438.4
50	-1.428	-1.429	31.906	50	231.8	68.6	.33	25.683	1439.1
75	-1.392	-1.393	32.395	74	194.0	67.6	.24	26.079	1440.3
100	-1.431	-1.433	32.578	99	179.6	65.8	.23	26.228	1440.8
150	-1.469	-1.473	33.098	149	139.1	67.7	.23	26.652	1442.1
200	-.932	-.937	34.016	198	70.5	66.9	.20	27.379	1446.7
250	-.391	-.400	34.523	248	34.2	67.3	.18	27.766	1450.8
350	.294	.279	34.750	347	20.8	67.6	.16	27.914	1455.9
500	.436	.414	34.822	495	16.4	67.3	.16	27.963	1459.1
1000	.009	-.036	34.884	988	8.7	67.2	.15	28.038	1465.4
1233	-.232	-.287	34.906	1217	5.1	66.4	.15	28.068	1468.2

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : ARO6

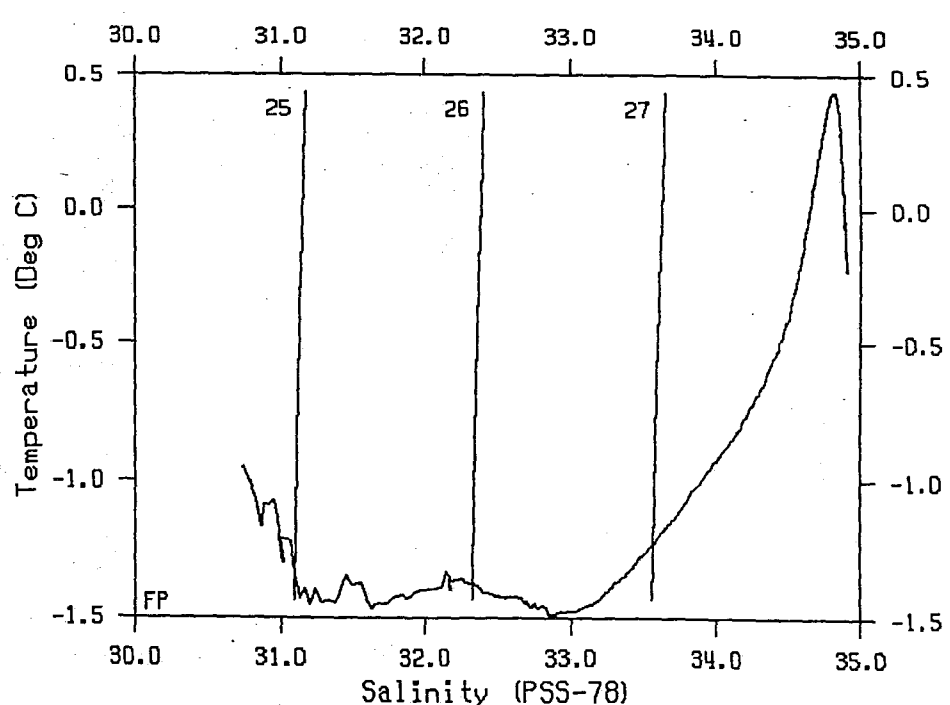
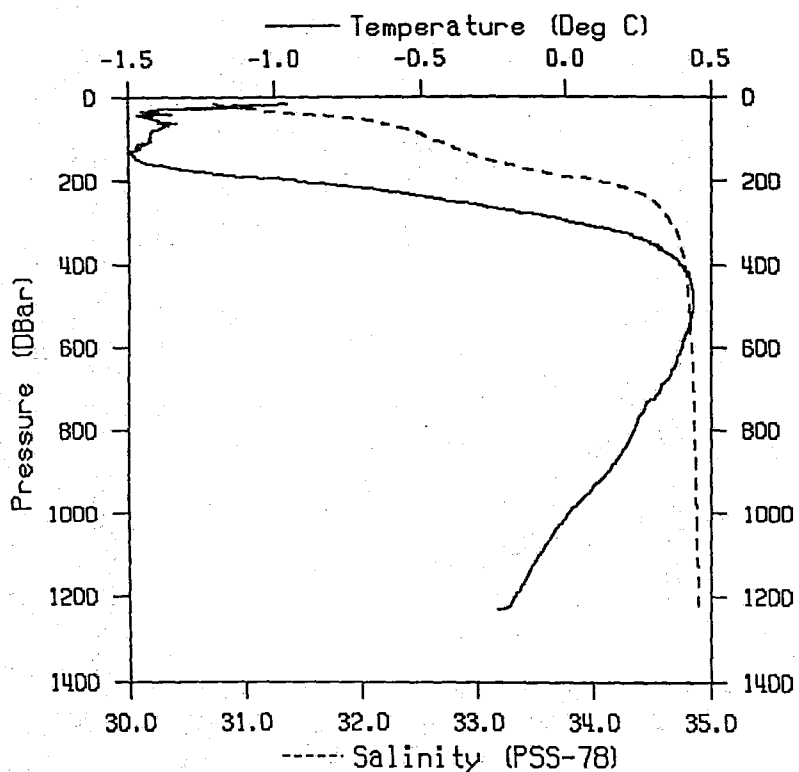
REFERENCE NO.: 95-06-062

DATE/TIME : 25/08/95 14:52 UTC

POSITION : 70-36.5N 137-22.1W

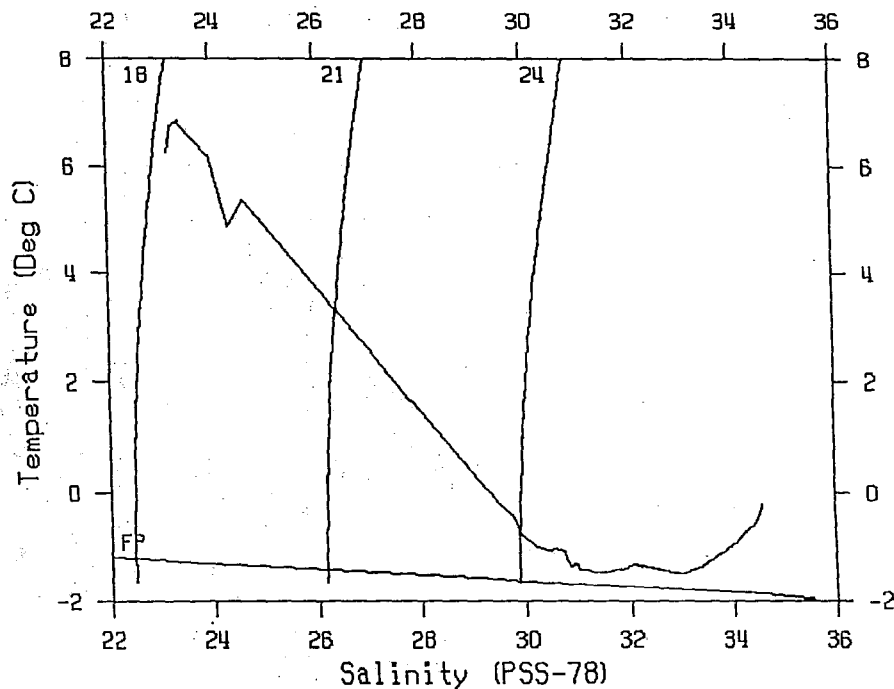
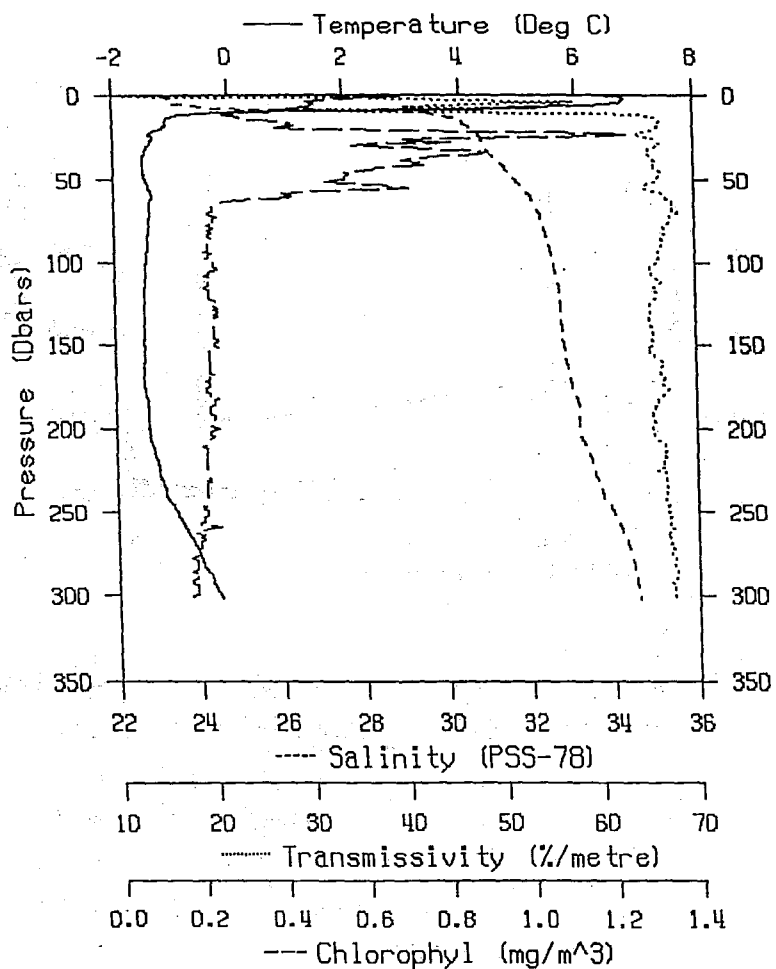
Pres	Temp	Thata	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
20	-1.165	-1.166	30.872	20	312.4		24.838	1438.5
25	-1.246	-1.247	30.999	25	302.4		24.943	1438.3
30	-1.424	-1.425	31.130	30	291.6		25.054	1437.7
40	-1.380	-1.381	31.505	40	262.9		25.357	1438.6
50	-1.428	-1.429	31.874	50	234.3		25.657	1439.0
75	-1.390	-1.392	32.380	74	195.2		26.067	1440.3
100	-1.426	-1.428	32.564	99	180.7		26.217	1440.8
150	-1.463	-1.466	33.086	149	140.1		26.642	1442.1
200	-.925	-.931	34.007	198	71.2		27.372	1446.8
250	-.383	-.391	34.511	248	35.1		27.756	1450.8
350	.299	.284	34.744	347	21.3		27.909	1455.9
500	.439	.417	34.818	495	16.7		27.960	1459.1
1000	.011	-.034	34.881	988	9.0		28.035	1465.4
1234	-.232	-.287	34.908	1218	4.9		28.070	1468.2

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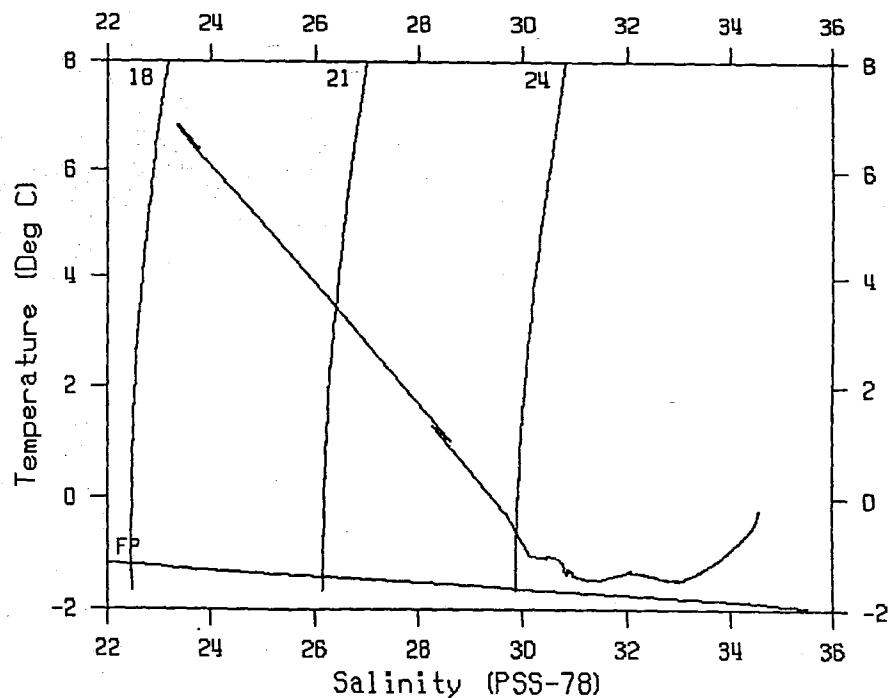
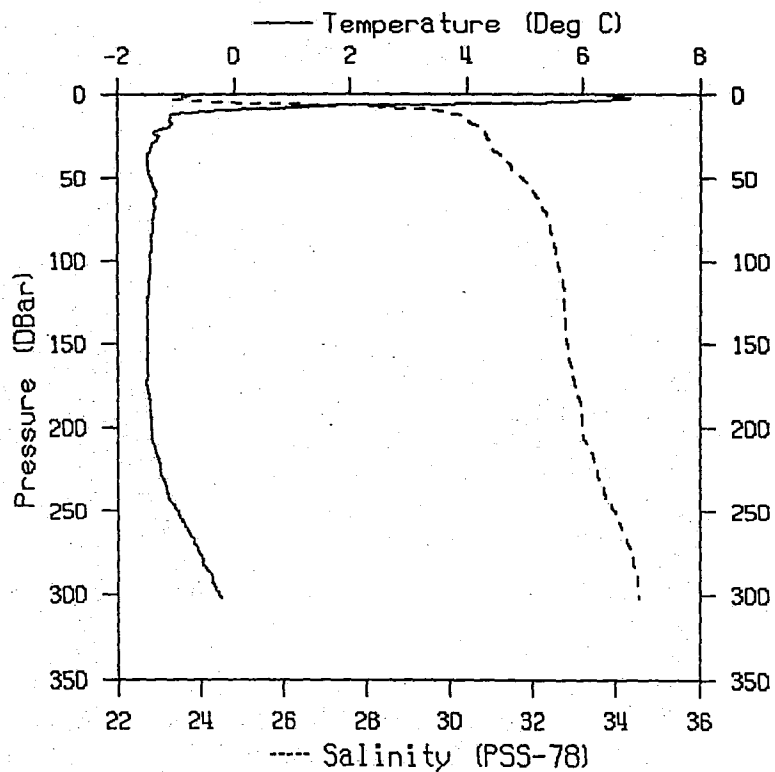
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO5  
 REFERENCE NO.: 95-26-063  
 DATE/TIME : 25/08/95 21:30 UTC  
 POSITION : 70-28.8N 136-55.0W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	6.732	6.731	23.454	5	930.0	50.1	.48	18.395	1463.3
7	4.934	4.934	24.301	7	848.9	40.5	.47	19.237	1457.0
10	-.143	-.144	29.460	10	424.2	41.3	.33	23.667	1441.2
15	-1.064	-1.064	30.438	15	346.1	66.6	.36	24.485	1438.3
20	-1.113	-1.114	30.723	20	324.0	66.9	.47	24.717	1436.5
25	-1.295	-1.296	30.914	25	308.8	65.4	.96	24.875	1438.0
30	-1.397	-1.398	30.992	30	302.5	66.7	.58	24.941	1437.7
40	-1.485	-1.486	31.361	40	273.8	65.8	.75	25.242	1437.9
50	-1.429	-1.430	31.762	50	242.9	66.1	.56	25.566	1438.9
75	-1.383	-1.384	32.369	74	196.1	67.5	.24	26.058	1440.3
100	-1.435	-1.437	32.603	99	177.7	66.3	.24	26.249	1440.8
150	-1.490	-1.493	32.850	149	158.2	65.7	.24	26.451	1441.7
200	-1.422	-1.426	33.201	198	131.1	65.5	.25	26.734	1443.3
250	-.954	-.961	34.003	248	71.2	67.2	.22	27.369	1447.4
303	-.207	-.218	34.585	300	30.3	67.3	.18	27.808	1452.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR05  
 REFERENCE NO.: 95-06-064  
 DATE/TIME : 25/08/95 21:31 UTC  
 POSITION : 70-28.8N 136-55.0W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr Chlo	Sig-t	Sound
5	5.101	5.101	24.911	5	803.9		19.705	1458.4
7	1.081	1.081	28.588	7	496.1		22.914	1445.7
10	-.391	-.391	29.752	10	400.9		23.911	1440.5
15	-1.097	-1.097	30.448	15	345.4		24.493	1438.1
20	-1.163	-1.163	30.750	20	321.8		24.739	1438.3
25	-1.281	-1.281	30.891	25	310.6		24.856	1438.0
30	-1.405	-1.405	30.987	30	302.9		24.937	1437.6
40	-1.483	-1.484	31.353	40	274.4		25.236	1437.9
50	-1.422	-1.423	31.740	50	244.6		25.548	1438.9
75	-1.376	-1.378	32.352	74	197.4		26.044	1440.3
100	-1.429	-1.431	32.586	99	179.0		26.235	1440.8
150	-1.485	-1.488	32.832	149	159.6		26.436	1441.7
200	-1.417	-1.421	33.187	198	132.2		26.723	1443.3
250	-.950	-.957	33.980	248	72.9		27.351	1447.4
303	-.203	-.214	34.571	300	31.5		27.796	1452.6

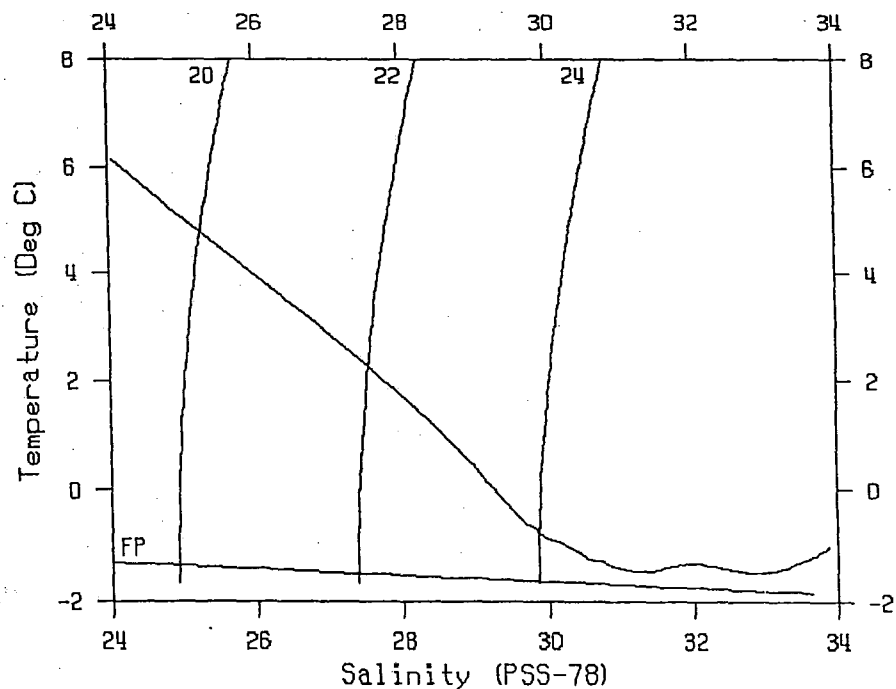
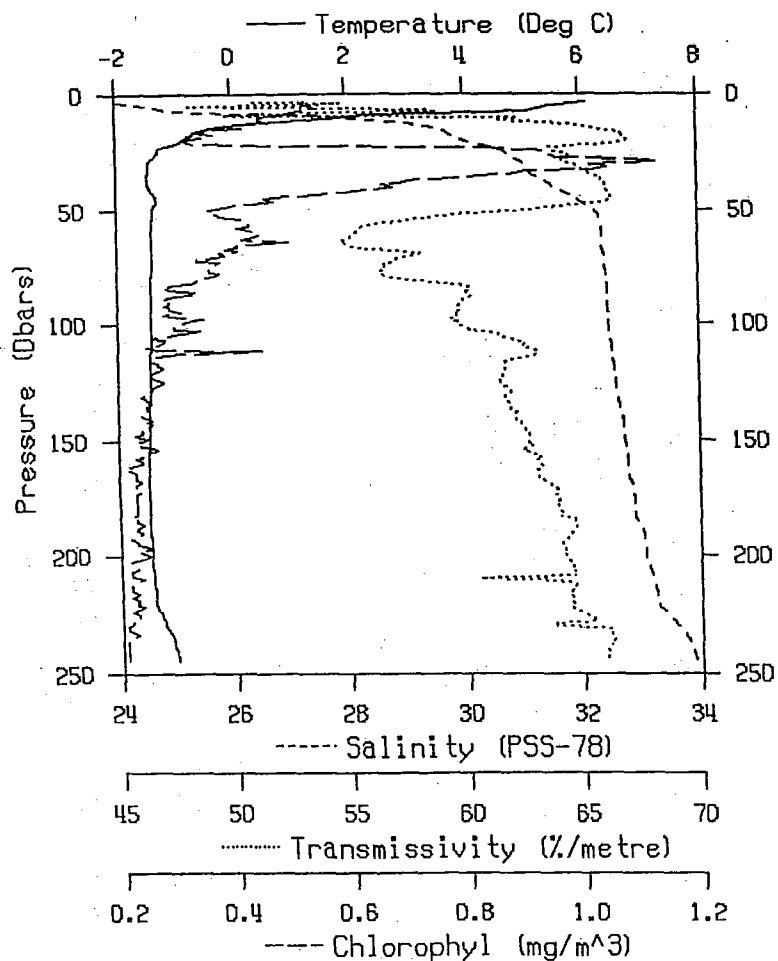




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR05  
 REFERENCE NO.: 95-26-065  
 DATE/TIME : 26/08/95 14:30 UTC  
 POSITION : 70-29.1N 136-58.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.523	5.523	24.606	5	830.9	48.2	.53	19.424	1459.8
7	5.073	5.073	25.000	7	796.9	58.8	.52	19.777	1458.4
10	1.984	1.983	27.794	10	561.5	62.3	.45	22.230	1448.7
15	-.453	-.453	29.591	15	413.1	66.0	.37	23.782	1440.0
20	-.867	-.867	30.024	20	378.5	67.0	.32	24.144	1438.7
25	-1.267	-1.267	30.731	25	323.0	64.4	.95	24.726	1437.9
30	-1.430	-1.431	31.073	30	295.2	64.8	1.02	25.007	1437.6
40	-1.419	-1.420	31.533	40	260.6	66.1	.68	25.380	1438.5
50	-1.358	-1.359	32.261	50	204.6	62.8	.36	25.970	1439.9
75	-1.395	-1.397	32.421	74	192.0	56.7	.36	26.100	1440.3
100	-1.409	-1.411	32.473	99	187.7	59.7	.31	26.143	1440.8
150	-1.466	-1.469	32.731	149	167.4	62.7	.24	26.354	1441.6
200	-1.463	-1.467	33.054	198	142.2	64.2	.25	26.616	1442.9
245	-1.019	-1.026	33.909	243	78.1	66.0	.21	27.295	1446.9

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

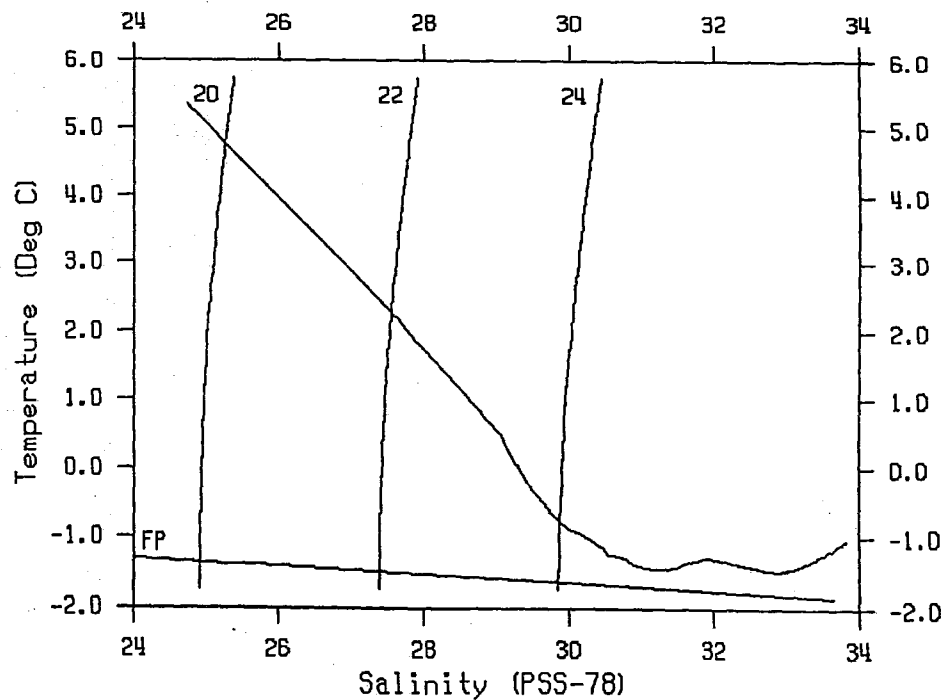
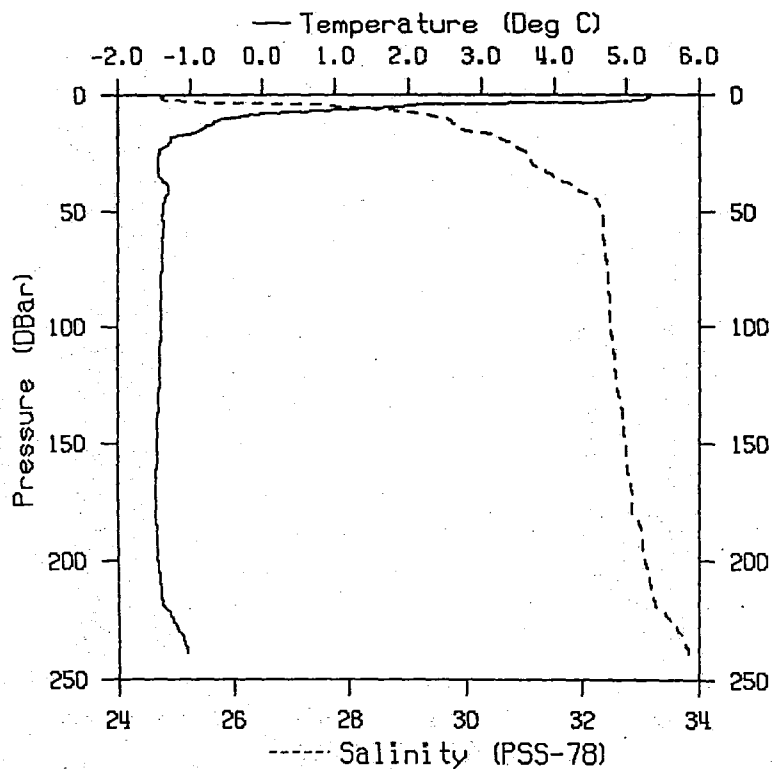
STATION : ARO5

REFERENCE NO.: 95-06-066

DATE/TIME : 26/08/95 14:33 UTC

POSITION : 70-29.1N 136-58.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	1.828	1.828	27.919	5	551.2		22.339	1448.1
7	.504	.504	29.049	7	458.2		23.311	1443.6
10	-.526	-.526	29.666	10	407.2		23.845	1439.7
15	-.873	-.874	29.999	15	380.5		24.124	1438.6
20	-1.264	-1.264	30.699	20	325.5		24.700	1437.8
25	-1.430	-1.430	31.054	25	297.7		24.992	1437.5
30	-1.442	-1.443	31.169	30	288.8		25.085	1437.7
40	-1.297	-1.298	31.902	40	232.5		25.676	1439.5
50	-1.373	-1.374	32.328	50	199.4		26.024	1439.9
75	-1.393	-1.394	32.419	74	192.1		26.099	1440.4
100	-1.407	-1.409	32.473	99	187.8		26.143	1440.8
150	-1.459	-1.462	32.726	149	167.8		26.350	1441.7
200	-1.445	-1.449	33.077	198	140.5		26.634	1443.0
239	-1.036	-1.042	33.840	237	83.3		27.240	1446.6



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : ARO5

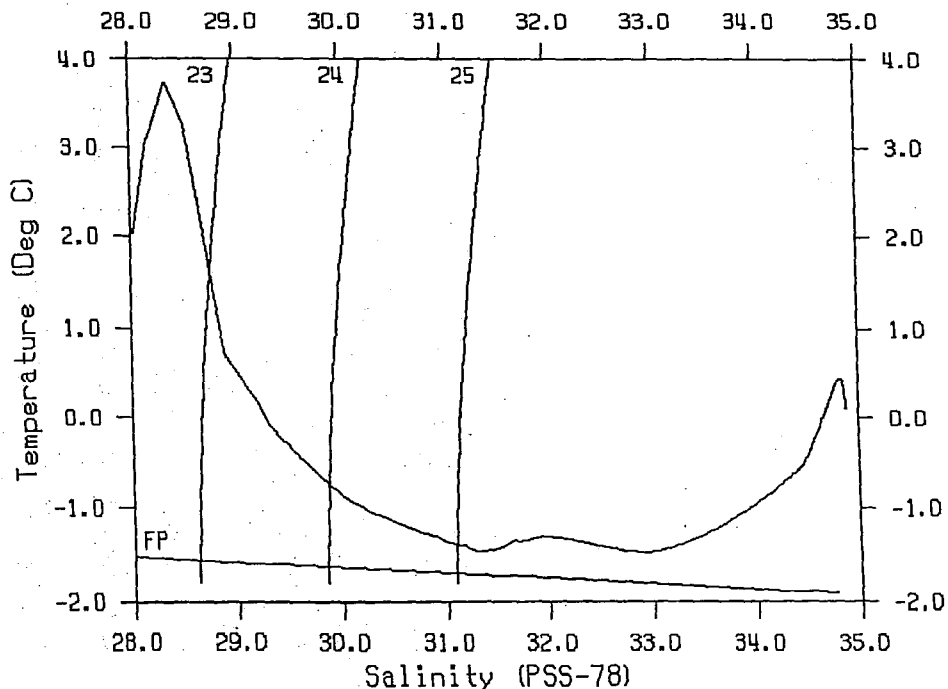
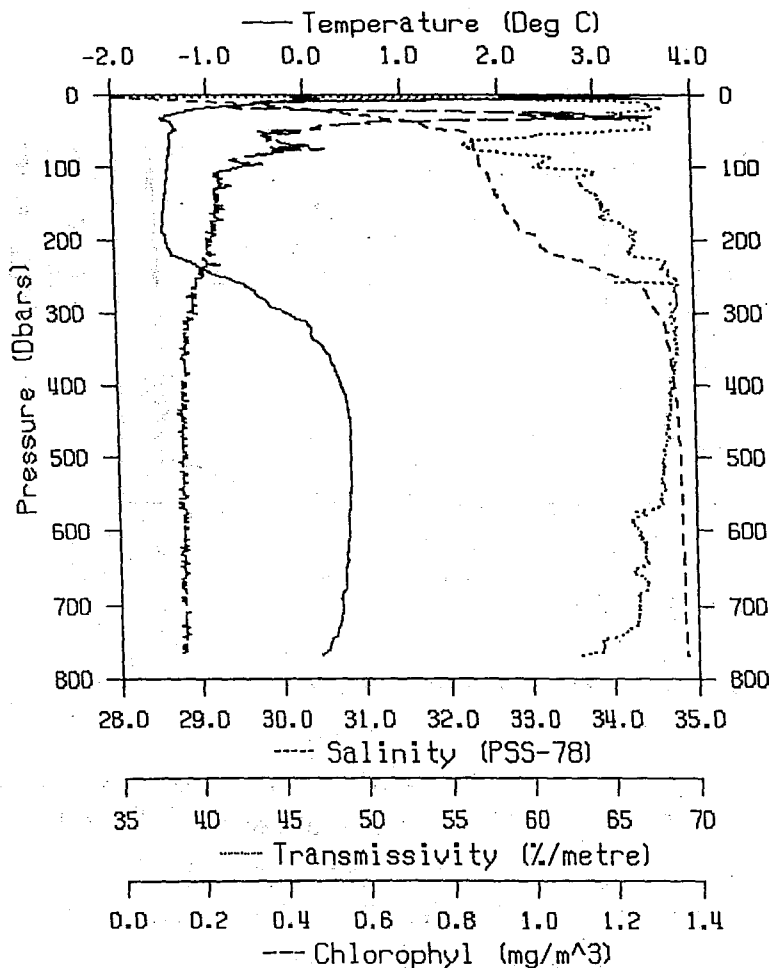
REFERENCE NO.: 95-26-067

DATE/TIME : 26/08/95 17:10 UTC

POSITION : 70-28.9N 136-58.0W

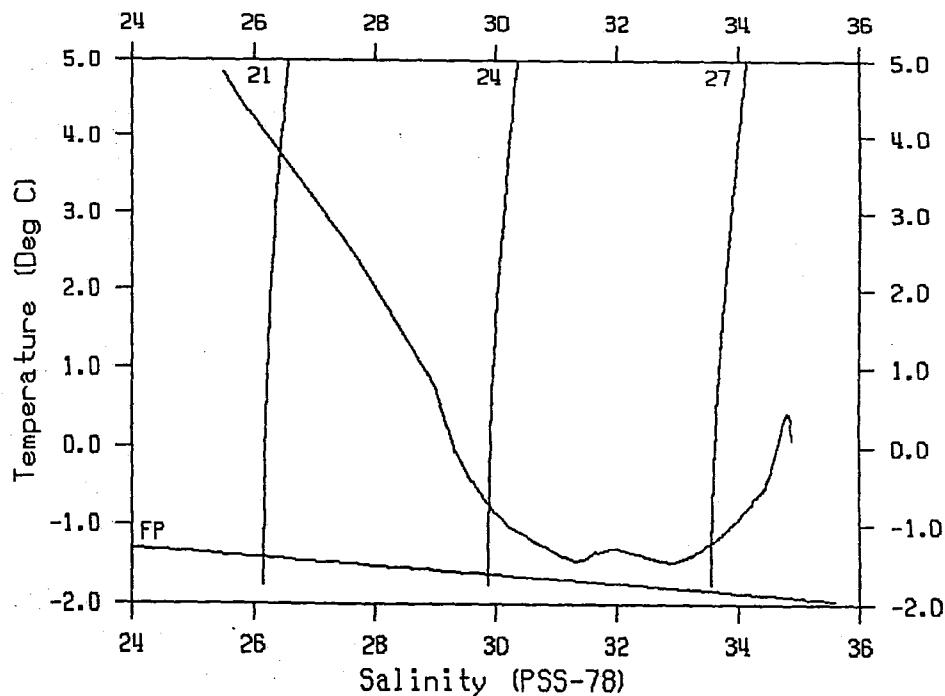
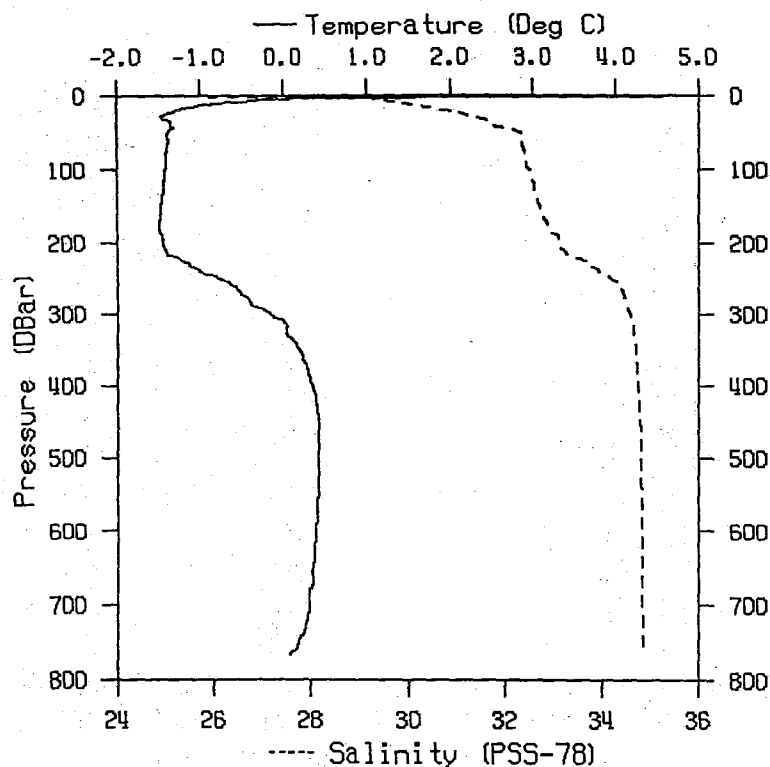
Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	3.724	3.724	28.356	5	530.6	59.6	.51	22.554	1457.0
7	1.899	1.899	28.722	7	490.1	49.2	.47	22.977	1449.5
10	-.097	-.097	29.325	10	434.7	66.4	.36	23.556	1441.3
15	-.801	-.801	29.944	15	384.9	67.7	.32	24.078	1438.9
20	-1.081	-1.081	30.341	20	353.5	68.0	.40	24.406	1438.1
25	-1.281	-1.281	30.798	25	317.8	65.1	1.05	24.781	1437.9
30	-1.415	-1.415	31.156	30	289.9	64.9	1.30	25.074	1437.8
40	-1.367	-1.368	31.701	40	247.8	67.3	.63	25.515	1438.9
50	-1.340	-1.341	32.187	50	210.4	65.6	.41	25.909	1439.9
75	-1.367	-1.389	32.388	74	194.6	56.6	.52	26.073	1440.3
100	-1.404	-1.406	32.453	99	189.3	60.6	.30	26.127	1440.8
150	-1.459	-1.462	32.709	149	169.1	64.4	.26	26.336	1441.6
200	-1.444	-1.448	33.121	198	137.1	66.6	.23	26.670	1443.1
250	-.873	-.880	34.101	248	64.0	68.7	.23	27.446	1447.9
350	.172	.158	34.706	347	23.4	69.0	.17	27.885	1455.2
500	.436	.414	34.821	495	16.5	68.2	.17	27.963	1459.1
769	.102	.069	34.878	760	9.9	63.2	.15	28.028	1462.0

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO5  
 REFERENCE NO.: 95-06-068  
 DATE/TIME : 26/08/95 17:09 UTC  
 POSITION : 70-28.9N 136-58.0W

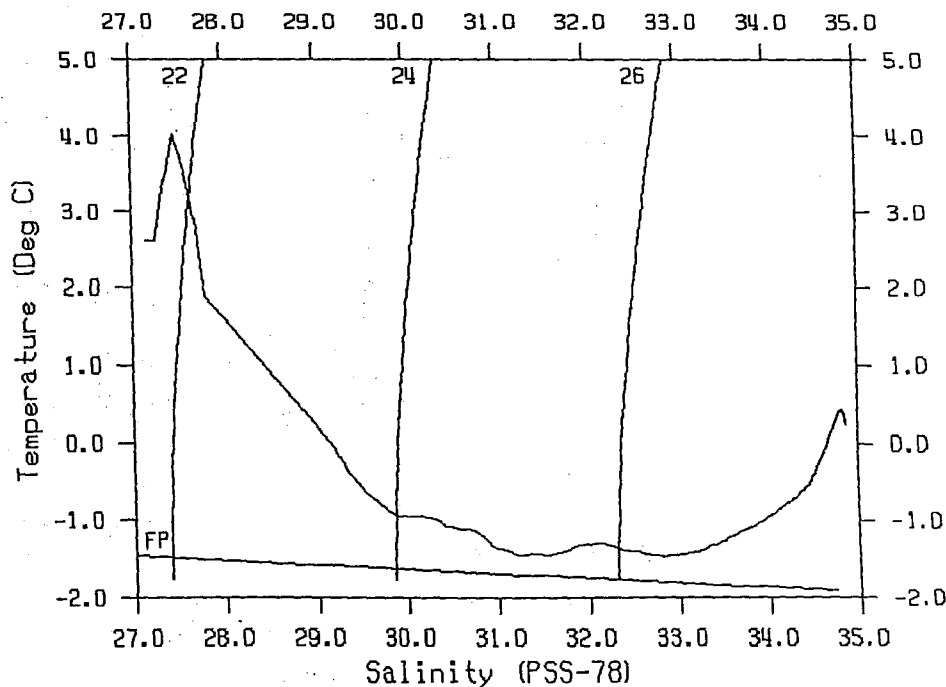
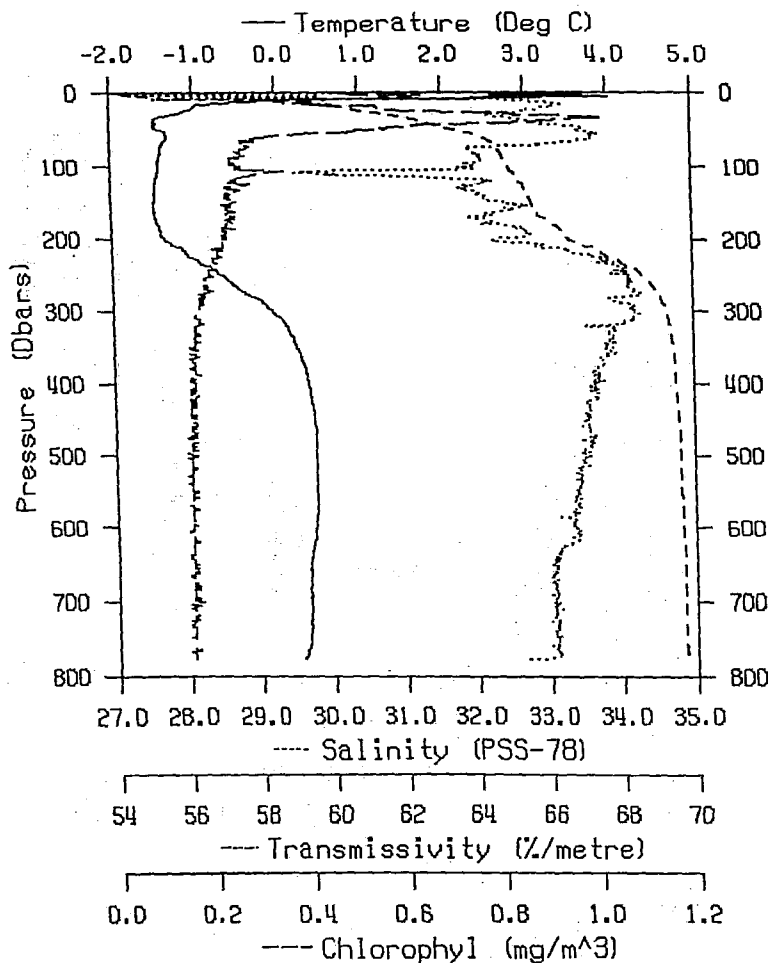
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr Chlo	Sig-t	Sound
5	-.086	-.086	29.334	5	434.1		23.563	1441.2
7	-.392	-.393	29.558	7	415.9		23.754	1440.1
10	-.823	-.823	29.959	10	383.8		24.090	1438.7
15	-1.076	-1.077	30.313	15	355.8		24.383	1438.0
20	-1.276	-1.276	30.775	20	319.6		24.763	1437.8
25	-1.408	-1.408	31.140	25	291.1		25.062	1437.7
30	-1.452	-1.452	31.407	30	270.4		25.279	1438.0
40	-1.341	-1.342	31.778	40	242.0		25.577	1439.2
50	-1.371	-1.372	32.321	50	200.0		26.018	1439.9
75	-1.392	-1.393	32.407	74	193.1		26.089	1440.3
100	-1.410	-1.412	32.495	99	186.1		26.161	1440.8
150	-1.460	-1.463	32.733	149	167.2		26.356	1441.7
200	-1.434	-1.438	33.136	198	136.0		26.682	1443.2
250	-.774	-.782	34.182	246	56.3		27.508	1448.5
350	.196	.182	34.707	347	23.4		27.885	1455.3
500	.438	.416	34.818	495	16.7		27.960	1459.1
766	.100	.066	34.876	757	10.0		28.027	1462.0



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AROS  
 REFERENCE NO.: 95-26-069  
 DATE/TIME : 26/08/95 23:54 UTC  
 POSITION : 70-30.9N 136-59.3W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	4.008	4.007	27.476	5	599.7	59.1	.61	21.832	1457.1
7	2.904	2.904	27.692	7	575.1	58.2	.58	22.089	1452.6
10	-.053	-.053	29.198	10	444.6	65.5	.44	23.453	1441.3
15	-.876	-.877	29.778	15	397.6	66.4	.41	23.945	1438.3
20	-.972	-.972	30.233	20	362.2	65.9	.55	24.316	1438.5
25	-1.095	-1.095	30.468	25	343.7	65.5	.66	24.509	1438.3
30	-1.290	-1.291	30.900	30	309.9	64.4	.87	24.864	1438.1
40	-1.439	-1.439	31.376	40	272.7	66.0	.82	25.253	1438.2
50	-1.381	-1.382	31.798	50	240.2	66.9	.52	25.594	1439.2
75	-1.387	-1.389	32.336	74	198.5	63.8	.26	26.032	1440.3
100	-1.416	-1.418	32.506	99	185.2	64.0	.27	26.170	1440.8
150	-1.471	-1.474	32.810	149	161.3	64.8	.26	26.418	1441.7
200	-1.354	-1.359	33.315	198	122.5	64.7	.24	26.825	1443.8
250	-.675	-.683	34.327	248	47.7	68.3	.20	27.620	1449.2
350	.220	.206	34.723	347	22.4	67.8	.17	27.896	1455.5
500	.437	.415	34.812	495	17.1	67.1	.17	27.955	1459.0
778	.244	.209	34.865	769	11.9	65.3	.16	28.009	1462.8

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

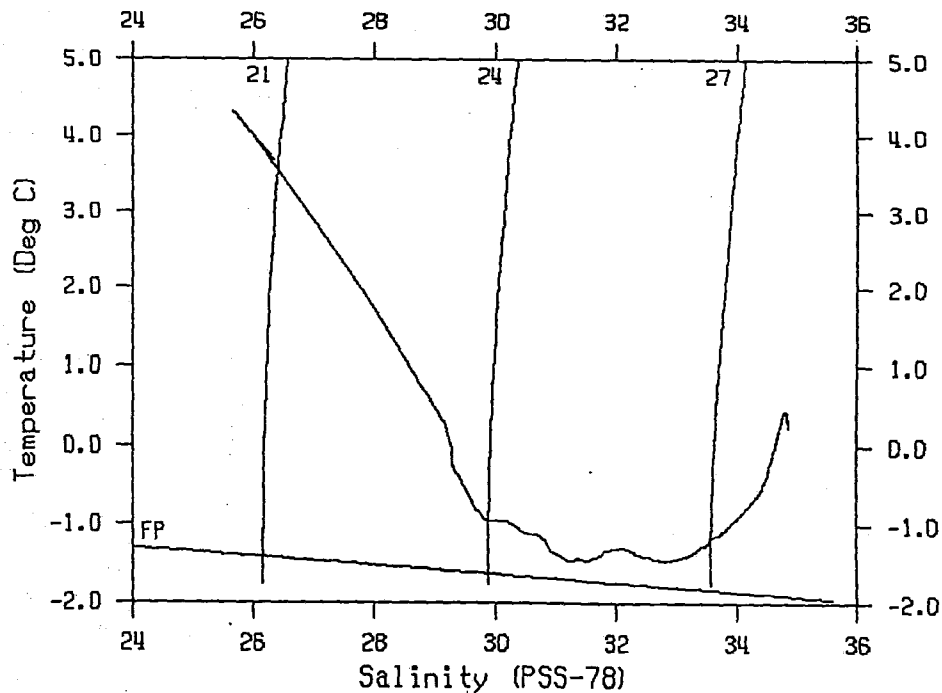
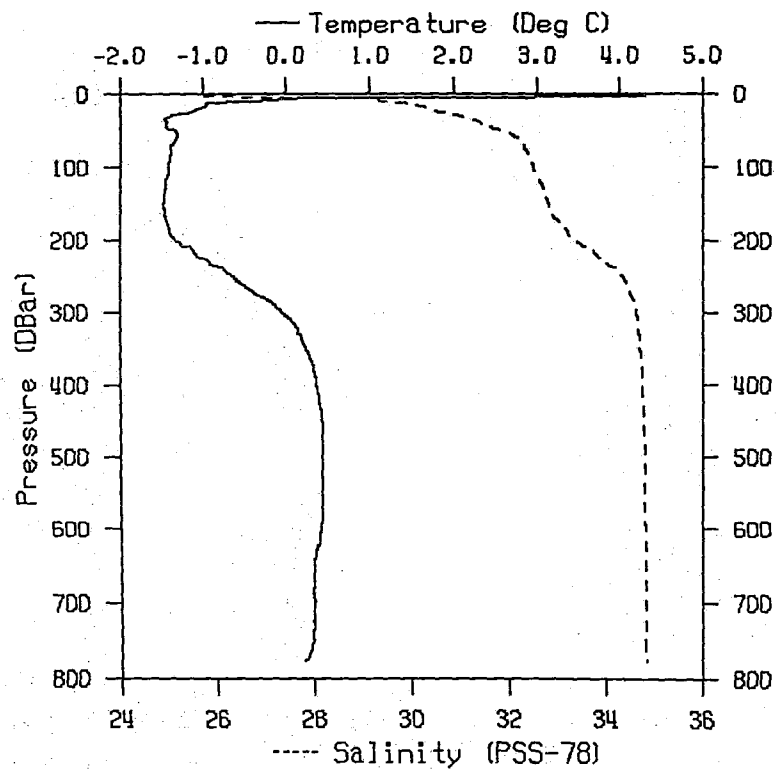
STATION : ARO5

REFERENCE NO.: 95-06-070

DATE/TIME : 26/08/95 23:53 UTC

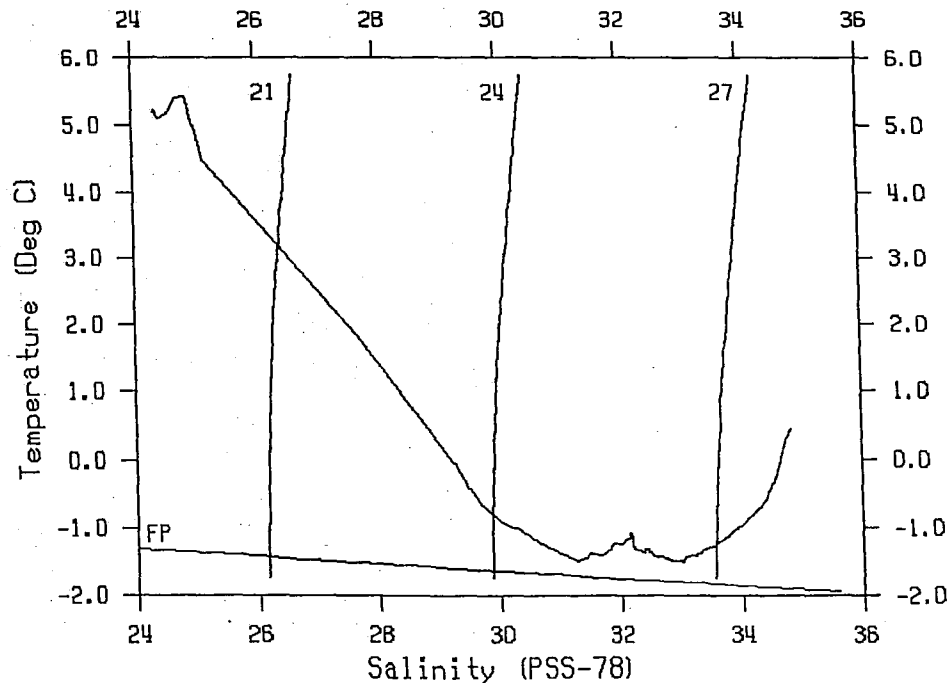
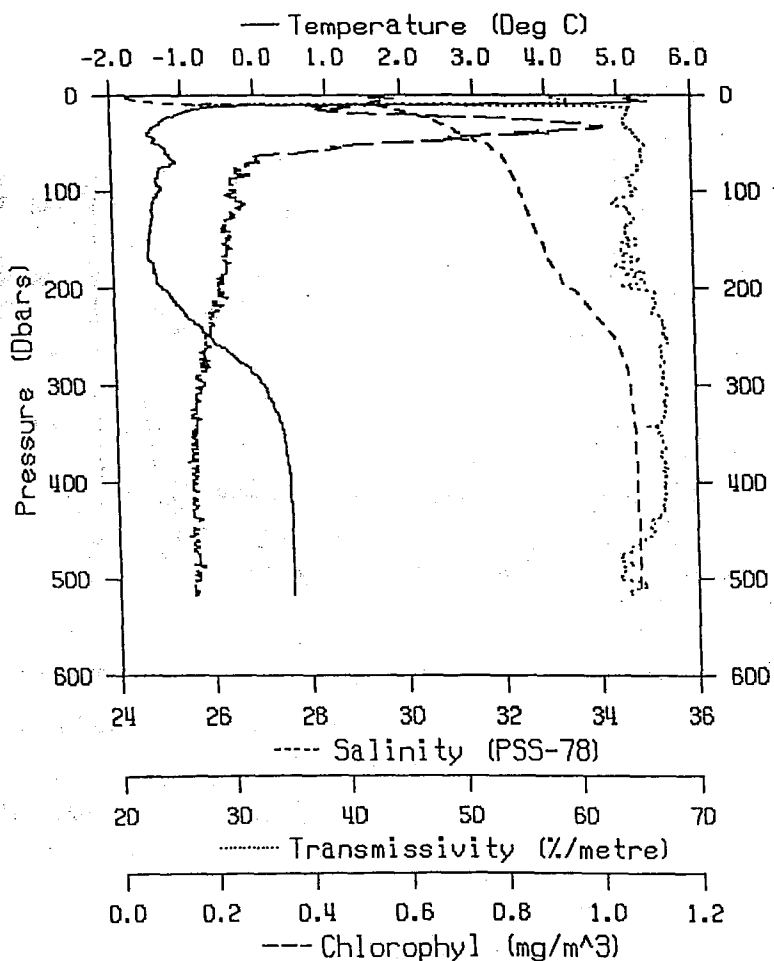
POSITION : 70-30.9N 136-59.3W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
5	1.817	1.817	27.934	5	549.9		22.352	1448.1
7	-.026	-.026	29.279	7	438.5		23.517	1441.5
10	-.330	-.331	29.346	10	432.4		23.581	1440.2
15	-.952	-.953	29.937	15	385.1		24.076	1438.1
20	-1.041	-1.041	30.369	20	351.5		24.428	1438.4
25	-1.131	-1.131	30.669	25	328.1		24.673	1438.4
30	-1.376	-1.377	30.999	30	302.0		24.946	1437.8
40	-1.447	-1.448	31.431	40	268.4		25.299	1438.2
50	-1.322	-1.323	31.870	50	234.8		25.652	1439.5
75	-1.383	-1.384	32.343	74	198.0		26.037	1440.3
100	-1.411	-1.413	32.496	99	186.0		26.161	1440.8
150	-1.469	-1.472	32.803	149	161.8		26.412	1441.7
200	-1.341	-1.346	33.313	198	122.8		26.823	1443.8
250	-.640	-.647	34.339	248	47.0		27.629	1449.4
350	.227	.213	34.716	347	22.9		27.890	1455.5
500	.441	.419	34.806	495	17.6		27.951	1459.1
777	.239	.205	34.865	768	11.9		28.010	1462.8



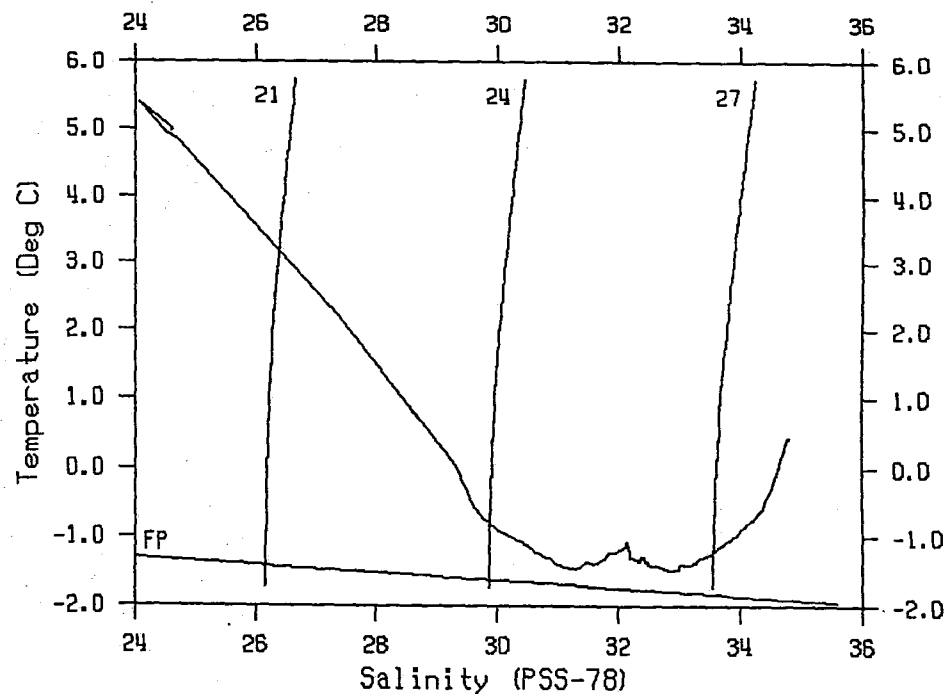
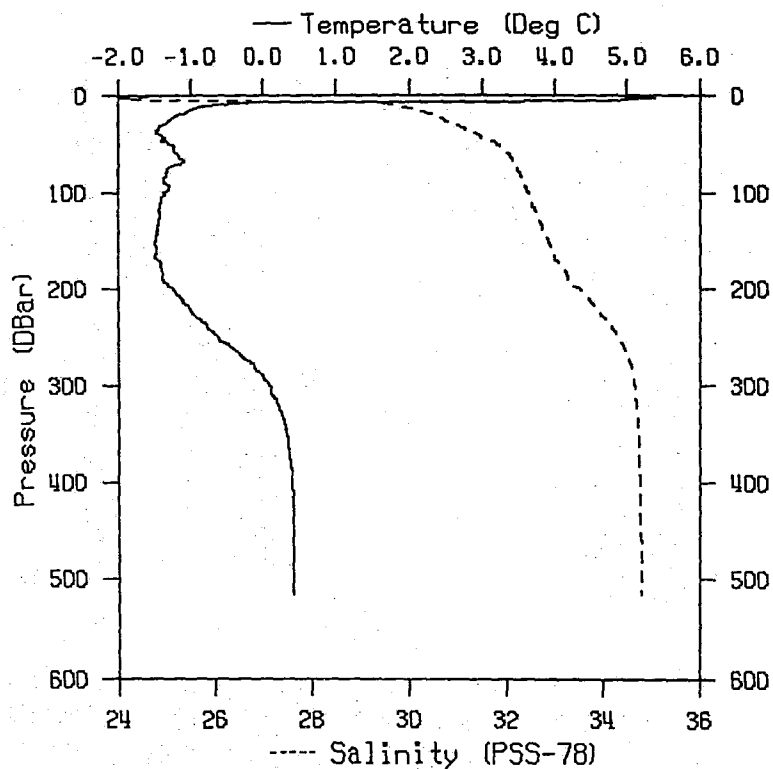
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO4  
 REFERENCE NO.: 95-26-071  
 DATE/TIME : 27/08/95 02:05 UTC  
 POSITION : 70-30.0N 135-50.9W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.189	5.189	24.597	5	828.5	59.2	.56	19.448	1458.4
7	5.413	5.413	24.678	7	809.2	59.4	.55	19.649	1459.7
10	1.821	1.821	27.671	10	570.1	27.0	.51	22.141	1447.9
15	-.812	-.813	29.890	15	389.1	64.8	.43	24.034	1438.7
20	-1.043	-1.044	30.346	20	353.3	64.6	.61	24.410	1438.3
25	-1.222	-1.222	30.665	25	328.2	64.3	.86	24.672	1438.0
30	-1.306	-1.306	30.853	30	313.4	64.3	.98	24.826	1437.9
40	-1.473	-1.474	31.262	40	281.4	65.2	.91	25.162	1437.8
50	-1.361	-1.362	31.749	50	244.1	65.9	.55	25.554	1439.2
75	-1.260	-1.261	32.209	74	208.7	65.6	.28	25.925	1440.7
100	-1.313	-1.315	32.445	99	190.2	65.1	.26	26.118	1441.2
150	-1.487	-1.490	32.864	149	157.1	64.9	.24	26.462	1441.7
200	-1.318	-1.322	33.407	198	115.6	64.5	.23	26.899	1444.1
250	-.677	-.685	34.330	248	47.5	67.5	.19	27.623	1449.2
350	.329	.314	34.754	347	20.7	66.9	.16	27.916	1456.0
500	.424	.402	34.818	495	16.6	63.3	.17	27.961	1459.0
518	.424	.401	34.826	512	16.0	64.3	.17	27.968	1459.3



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO4  
 REFERENCE NO.: 95-06-072  
 DATE/TIME : 27/08/95 02:08 UTC  
 POSITION : 70-30.0N 135-50.9W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	4.678	4.678	24.863	5	804.0		19.704	1456.6
7	.014	.014	29.321	7	435.4		23.549	1441.7
10	-.766	-.766	29.808	10	395.6		23.966	1438.8
15	-.994	-.995	30.204	15	364.4		24.293	1438.3
20	-1.172	-1.173	30.554	20	337.0		24.580	1438.0
25	-1.274	-1.275	30.742	25	322.2		24.735	1437.8
30	-1.387	-1.388	30.973	30	304.0		24.925	1437.7
40	-1.408	-1.409	31.425	40	269.0		25.292	1438.4
50	-1.265	-1.265	31.830	50	238.0		25.618	1439.8
75	-1.307	-1.309	32.231	74	206.8		25.944	1440.5
100	-1.368	-1.370	32.459	99	188.9		26.131	1440.9
150	-1.475	-1.478	32.868	149	156.8		26.465	1441.8
200	-1.242	-1.247	33.534	198	106.2		26.999	1444.6
250	-.616	-.623	34.355	248	45.9		27.640	1449.5
350	.342	.328	34.745	347	21.4		27.907	1456.1
500	.431	.410	34.807	495	17.5		27.952	1459.0
516	.426	.404	34.817	510	16.7		27.960	1459.3

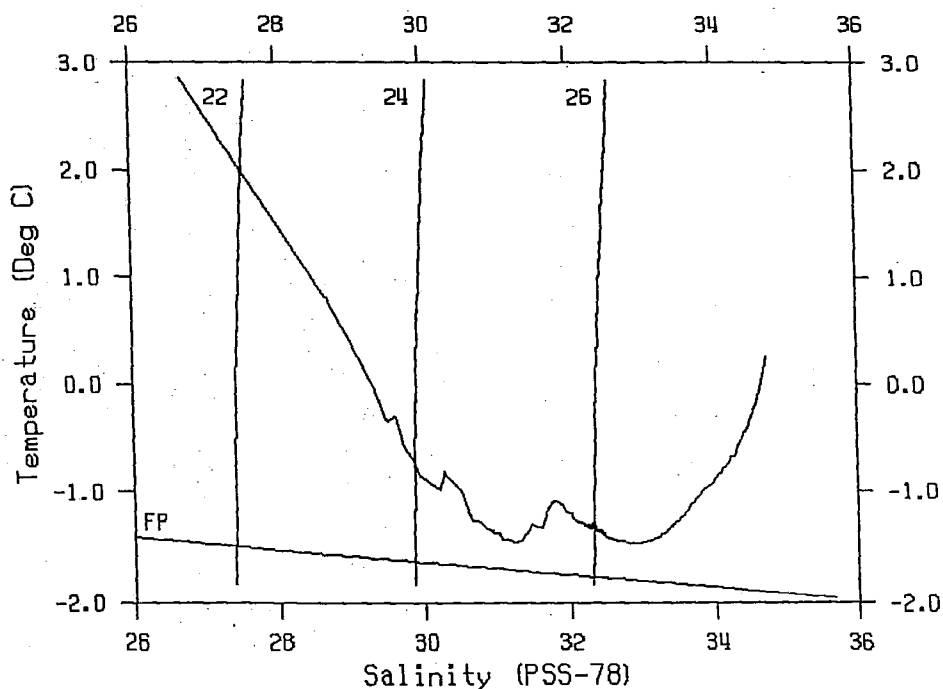
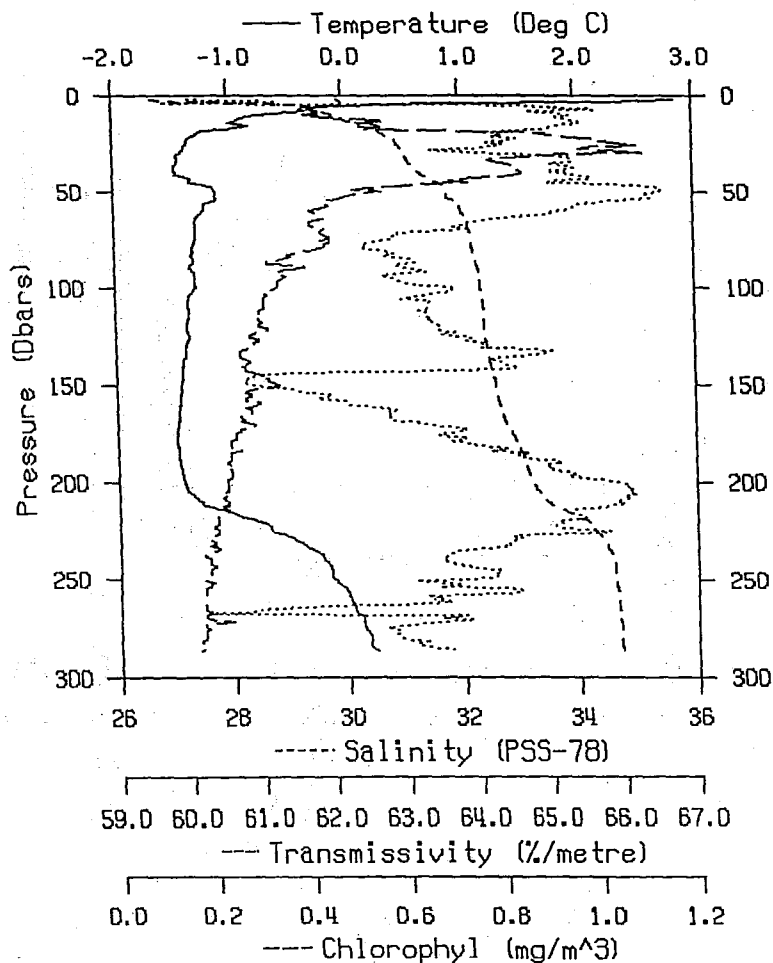




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO3  
 REFERENCE NO.: 95-26-073  
 DATE/TIME : 29/08/95 14:20 UTC  
 POSITION : 70-22.6N 137-20.8W

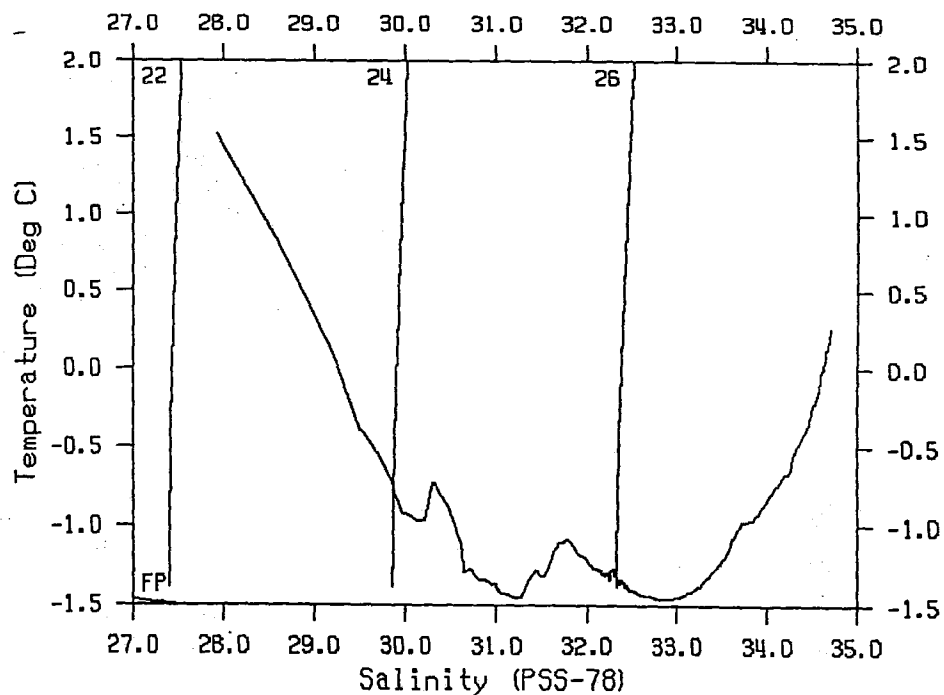
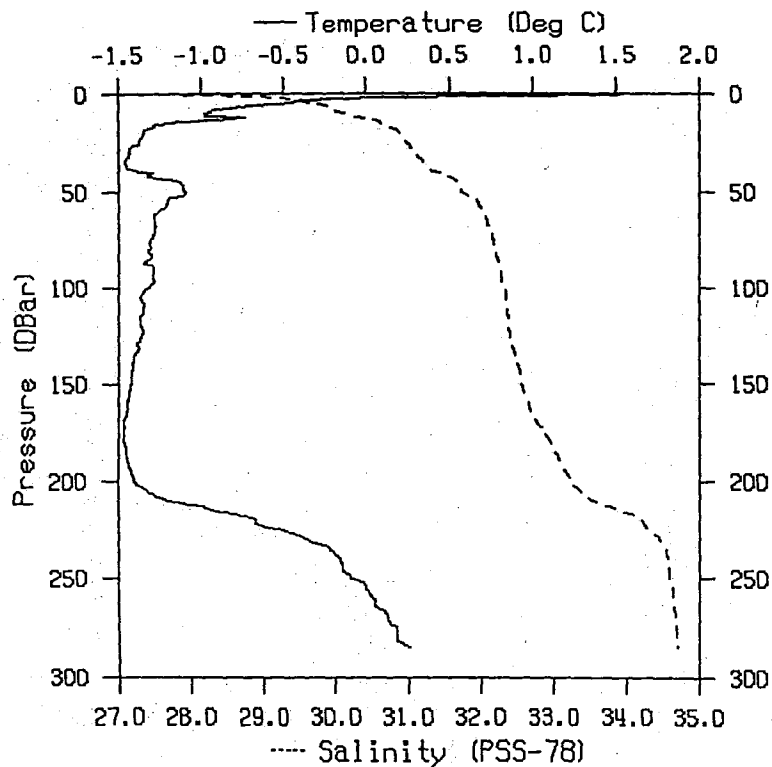
Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	-.034	-.034	29.325	5	435.0	64.5	.47	23.554	1441.5
7	-.360	-.360	29.525	7	418.5	65.7	.41	23.727	1440.3
10	-.742	-.743	29.678	10	390.3	65.3	.40	24.022	1439.0
15	-.821	-.822	30.283	15	358.8	65.2	.55	24.352	1439.2
20	-1.261	-1.261	30.721	20	323.9	64.4	.89	24.718	1437.8
25	-1.351	-1.352	30.942	25	306.5	64.4	1.09	24.899	1437.7
30	-1.420	-1.420	31.069	30	296.5	64.5	.96	25.004	1437.7
40	-1.451	-1.451	31.316	40	277.3	65.2	.85	25.205	1438.0
50	-1.111	-1.112	31.757	50	244.1	66.5	.56	25.554	1440.4
75	-1.288	-1.289	32.182	74	210.7	62.8	.45	25.904	1440.5
100	-1.287	-1.289	32.324	99	199.5	63.7	.34	26.019	1441.1
150	-1.424	-1.427	32.568	149	180.0	60.9	.34	26.220	1441.6
200	-1.415	-1.419	33.224	198	129.3	65.9	.23	26.753	1443.4
250	-.132	-.141	34.601	248	29.6	64.0	.19	27.817	1452.1
287	.249	.238	34.732	284	21.8	63.7	.17	27.902	1454.6

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO3  
 REFERENCE NO.: 95-06-074  
 DATE/TIME : 29/08/95 14:31 UTC  
 POSITION : 70-22.6N 137-20.8W

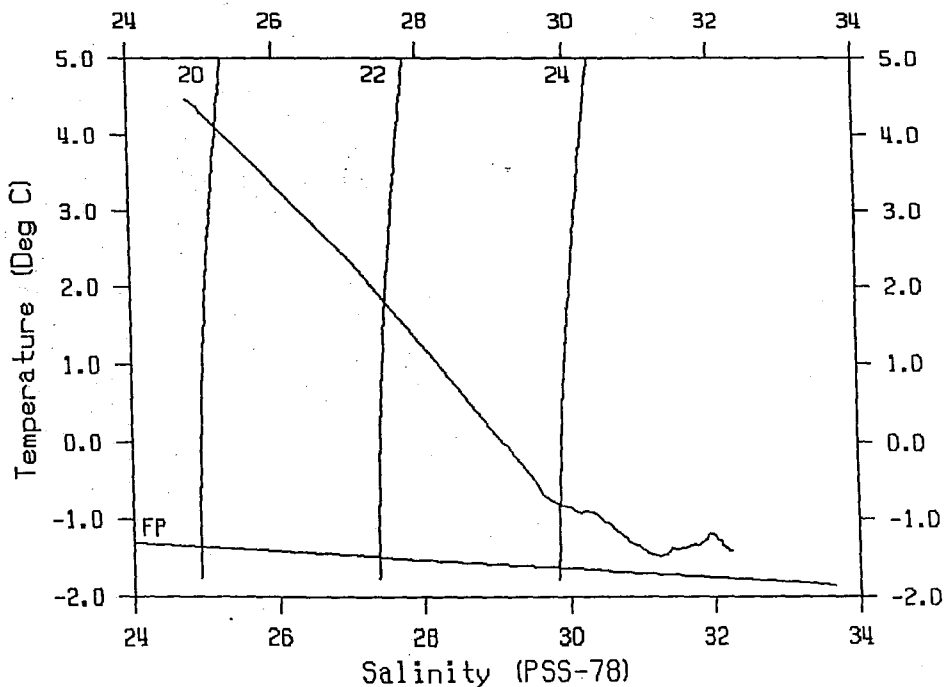
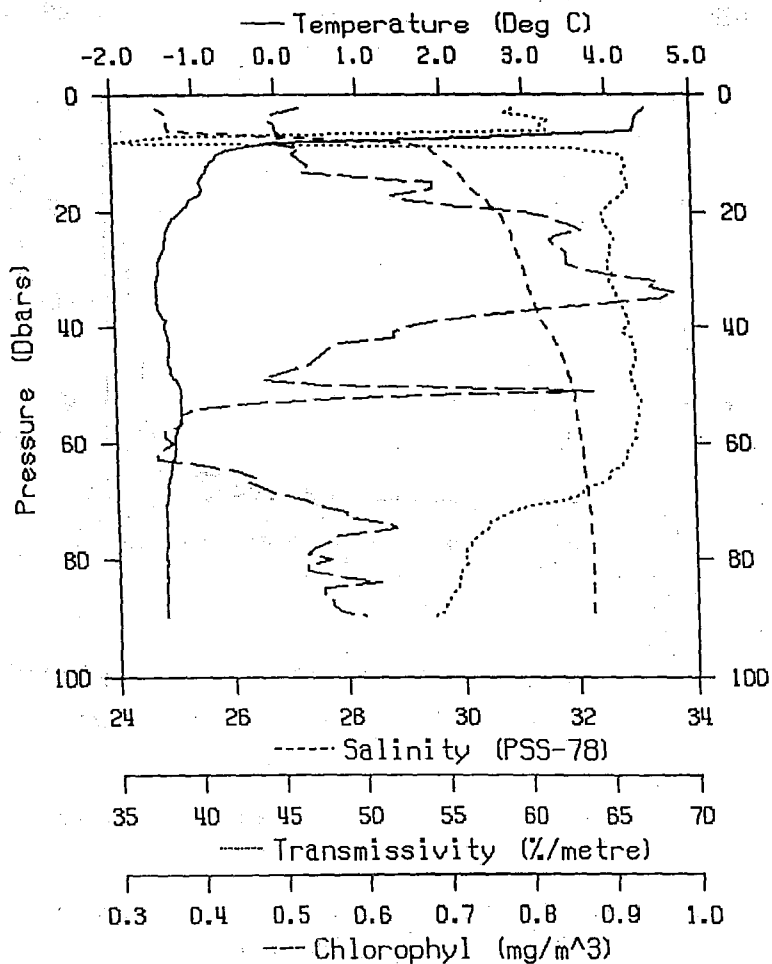
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr Chlo	Sig-t	Sound
5	-.541	-.541	29.705	5	404.1		23.878	1439.6
7	-.812	-.812	29.906	7	367.9		24.047	1438.6
10	-.971	-.972	30.132	10	370.1		24.234	1438.2
15	-1.258	-1.258	30.645	15	329.8		24.656	1437.6
20	-1.341	-1.341	30.889	20	310.7		24.856	1437.6
25	-1.370	-1.370	31.001	25	301.9		24.948	1437.7
30	-1.429	-1.430	31.091	30	294.8		25.022	1437.7
40	-1.285	-1.286	31.445	40	267.7		25.306	1439.0
50	-1.092	-1.093	31.756	50	244.2		25.553	1440.5
75	-1.300	-1.301	32.175	74	211.2		25.899	1440.5
100	-1.306	-1.308	32.327	99	199.3		26.022	1441.0
150	-1.422	-1.425	32.562	149	180.5		26.215	1441.6
200	-1.394	-1.399	33.228	198	129.1		26.756	1443.5
250	-.087	-.096	34.596	248	30.3		27.810	1452.3
285	.261	.250	34.716	282	23.2		27.888	1454.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO2  
 REFERENCE NO.: 95-26-075  
 DATE/TIME : 29/08/95 23:59 UTC  
 POSITION : 70-20.2N 137-11.8W

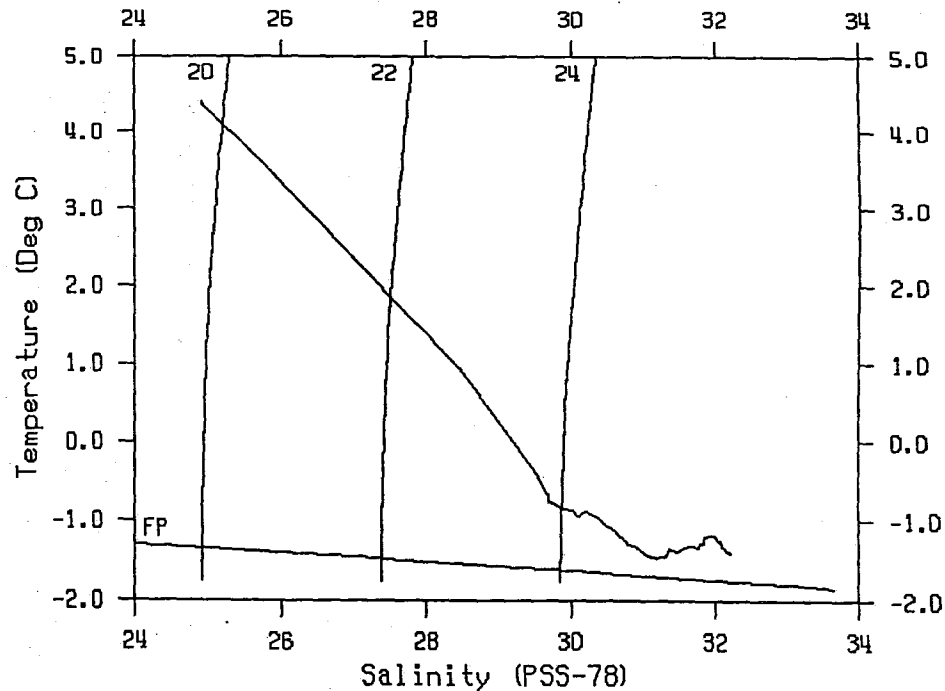
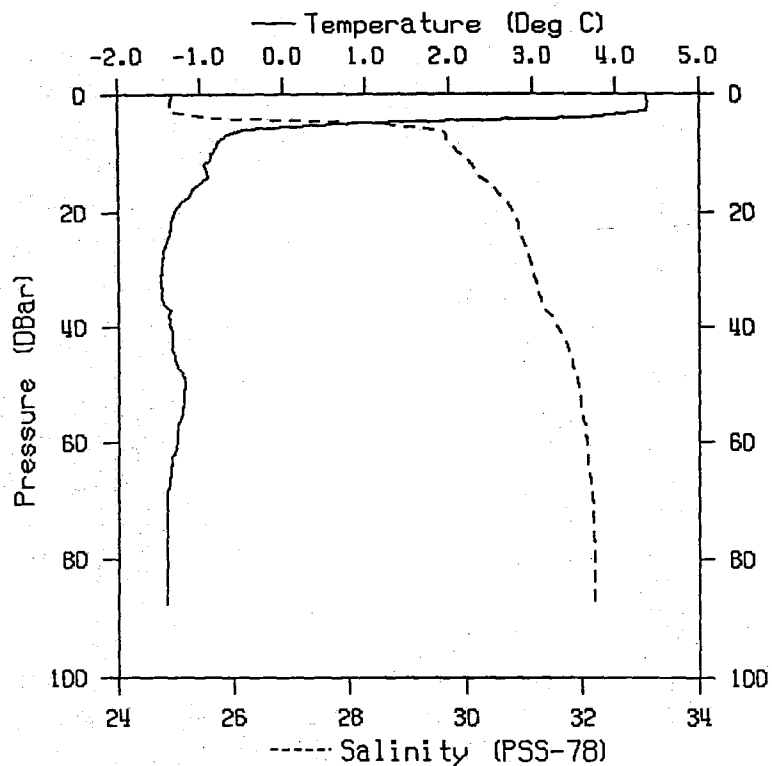
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	4.341	4.340	24.986	5	791.8	61.1	.50	19.830	1455.3
7	2.398	2.397	26.990	7	625.5	38.2	.51	21.563	1449.5
10	-.693	-.693	29.651	10	407.9	65.8	.52	23.837	1438.9
15	-.937	-.937	30.176	15	366.7	66.3	.69	24.269	1438.5
20	-1.171	-1.171	30.681	20	327.1	64.7	.80	24.684	1438.2
25	-1.352	-1.353	30.945	25	306.3	65.3	.83	24.902	1437.7
30	-1.452	-1.452	31.116	30	292.9	65.0	.87	25.042	1437.6
40	-1.392	-1.393	31.488	40	264.2	66.1	.66	25.343	1438.5
50	-1.213	-1.214	31.933	50	230.3	66.5	.57	25.699	1440.1
75	-1.408	-1.410	32.214	74	207.9	57.6	.63	25.933	1440.0
90	-1.414	-1.416	32.236	89	206.1	54.2	.60	25.951	1440.2

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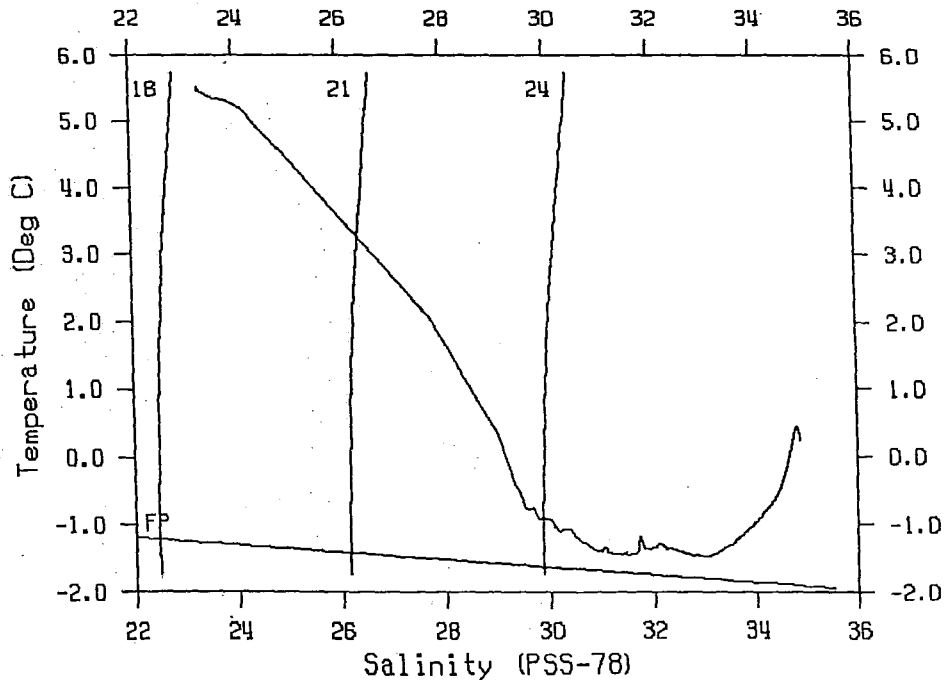
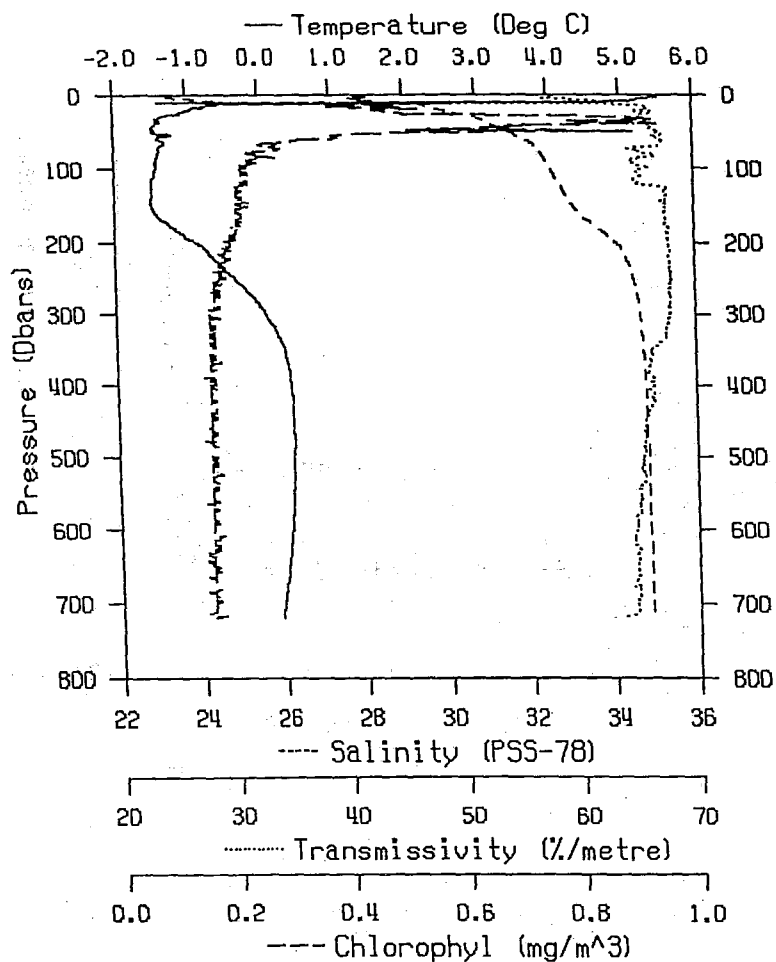
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : ARO2  
 REFERENCE NO.: 95-06-076  
 DATE/TIME : 30/08/95 00:05 UTC  
 POSITION : 70-20.2N 137-11.8W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	.879	.879	28.504	5	501.6		22.856	1444.6
7	-.664	-.664	29.688	7	405.1		23.867	1439.0
10	-.857	-.857	29.893	10	388.8		24.038	1438.4
15	-.979	-.979	30.389	15	350.1		24.443	1438.6
20	-1.303	-1.304	30.803	20	317.4		24.786	1437.7
25	-1.398	-1.399	30.991	25	302.6		24.940	1437.6
30	-1.465	-1.466	31.136	30	291.3		25.059	1437.5
40	-1.348	-1.349	31.586	40	256.7		25.421	1438.9
50	-1.188	-1.189	31.938	50	229.9		25.703	1440.3
75	-1.404	-1.405	32.197	74	209.2		25.919	1440.0
88	-1.408	-1.410	32.209	87	208.2		25.929	1440.2



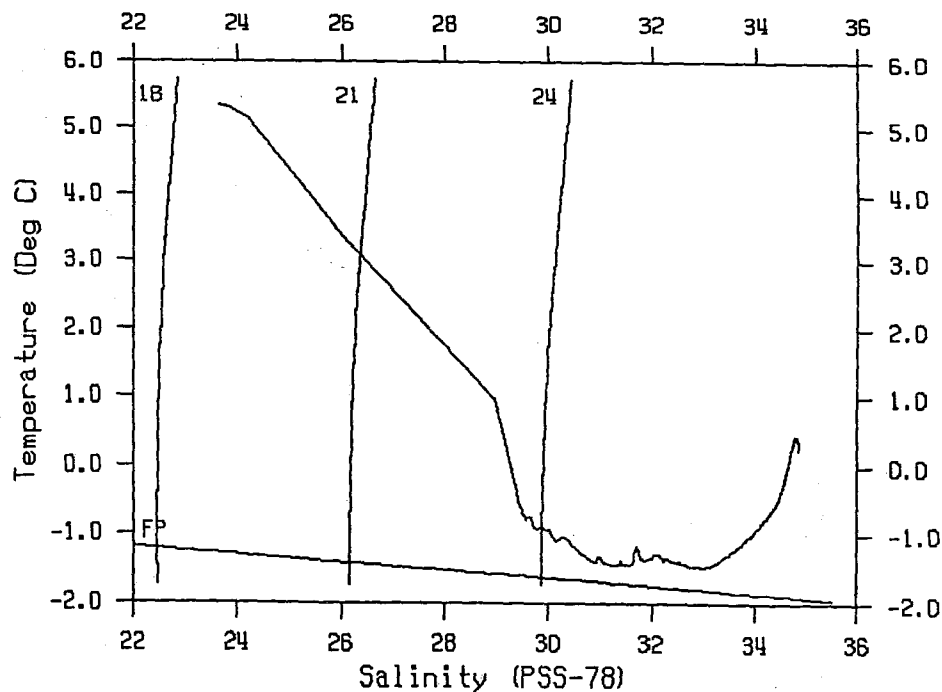
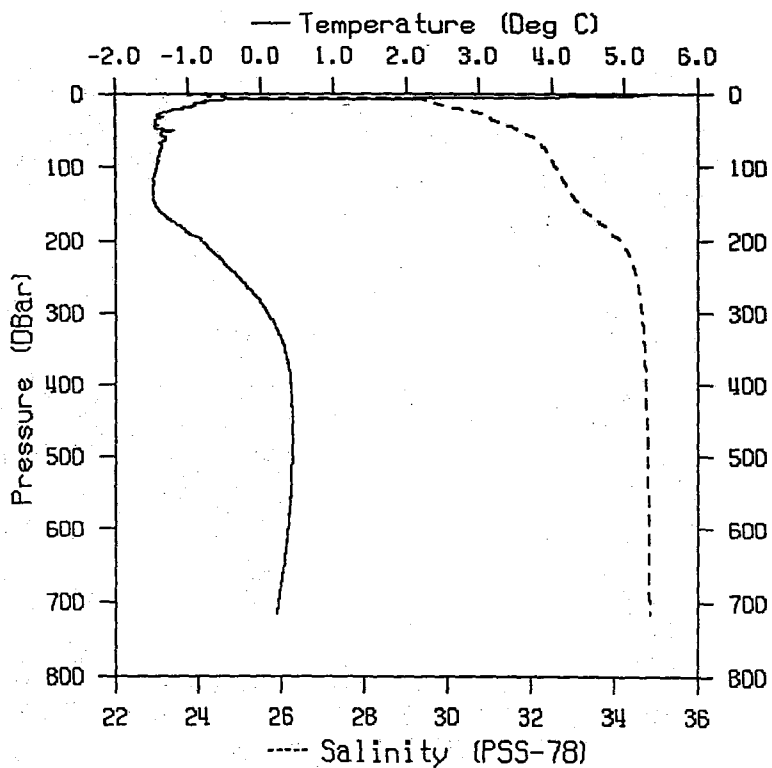
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR10  
 REFERENCE NO.: 95-26-077  
 DATE/TIME : 30/08/95 19:00 UTC  
 POSITION : 70-32.3N 139-58.8W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.369	5.369	23.537	5	910.7	57.2	.42	18.595	1457.8
7	5.222	5.222	24.122	7	864.9	60.2	.43	19.070	1457.9
10	4.577	4.576	24.872	10	802.4	61.3	.45	19.719	1456.2
15	-.764	-.765	29.558	15	414.8	65.7	.38	23.765	1438.5
20	-.904	-.904	29.869	20	390.4	66.3	.47	24.020	1438.4
25	-1.075	-1.076	30.262	25	359.6	66.5	.50	24.342	1438.1
30	-1.327	-1.327	30.748	30	321.5	65.3	.85	24.742	1437.7
40	-1.427	-1.428	31.129	40	291.8	66.0	.79	25.053	1437.9
50	-1.446	-1.447	31.559	50	258.5	67.3	.75	25.402	1438.5
75	-1.364	-1.365	32.283	74	202.7	65.4	.27	25.988	1440.3
100	-1.418	-1.419	32.566	99	180.6	65.9	.21	26.218	1440.8
150	-1.477	-1.480	33.114	149	137.9	67.6	.21	26.665	1442.1
200	-.874	-.880	34.118	198	62.9	67.8	.20	27.460	1447.1
250	-.356	-.365	34.540	248	33.0	68.0	.19	27.778	1450.9
350	.323	.308	34.750	347	20.9	66.1	.16	27.913	1456.0
500	.433	.412	34.822	495	16.4	65.4	.17	27.964	1459.0
720	.231	.199	34.867	712	11.6	63.5	.16	28.012	1461.8



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR10  
 REFERENCE NO.: 95-06-078  
 DATE/TIME : 30/08/95 19:00 UTC  
 POSITION : 70-32.3N 139-58.8W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
5	3.213	3.213	26.215	5	689.9		20.890	1452.0
7	-.360	-.380	29.397	7	428.3		23.624	1440.0
10	-.779	-.779	29.565	10	414.3		23.771	1438.4
15	-.890	-.891	29.866	15	390.7		24.017	1438.3
20	-1.046	-1.046	30.268	20	359.3		24.346	1438.2
25	-1.316	-1.316	30.709	25	324.6		24.710	1437.6
30	-1.414	-1.415	30.936	30	306.8		24.896	1437.5
40	-1.439	-1.439	31.297	40	278.8		25.189	1438.0
50	-1.174	-1.175	31.705	50	247.9		25.514	1440.0
75	-1.370	-1.371	32.338	74	198.5		26.032	1440.4
100	-1.429	-1.431	32.593	99	178.5		26.241	1440.8
150	-1.447	-1.450	33.158	149	134.7		26.700	1442.3
200	-.811	-.817	34.153	198	60.6		27.485	1447.5
250	-.313	-.322	34.530	248	34.0		27.768	1451.1
350	.341	.326	34.736	347	22.1		27.900	1456.0
500	.438	.416	34.805	495	17.6		27.950	1459.0
717	.235	.204	34.851	709	12.9		27.999	1461.7



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

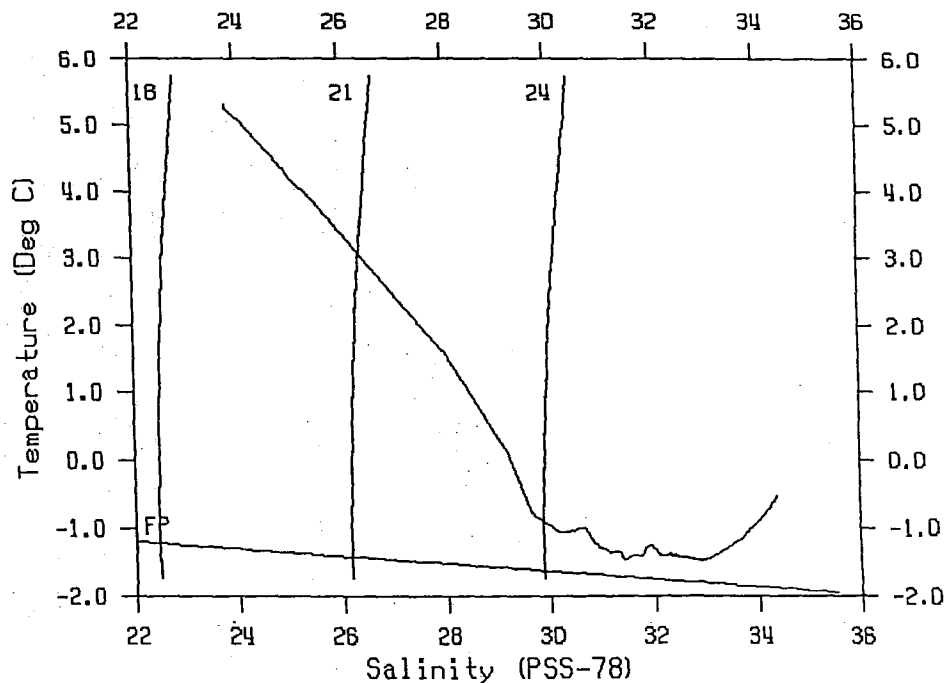
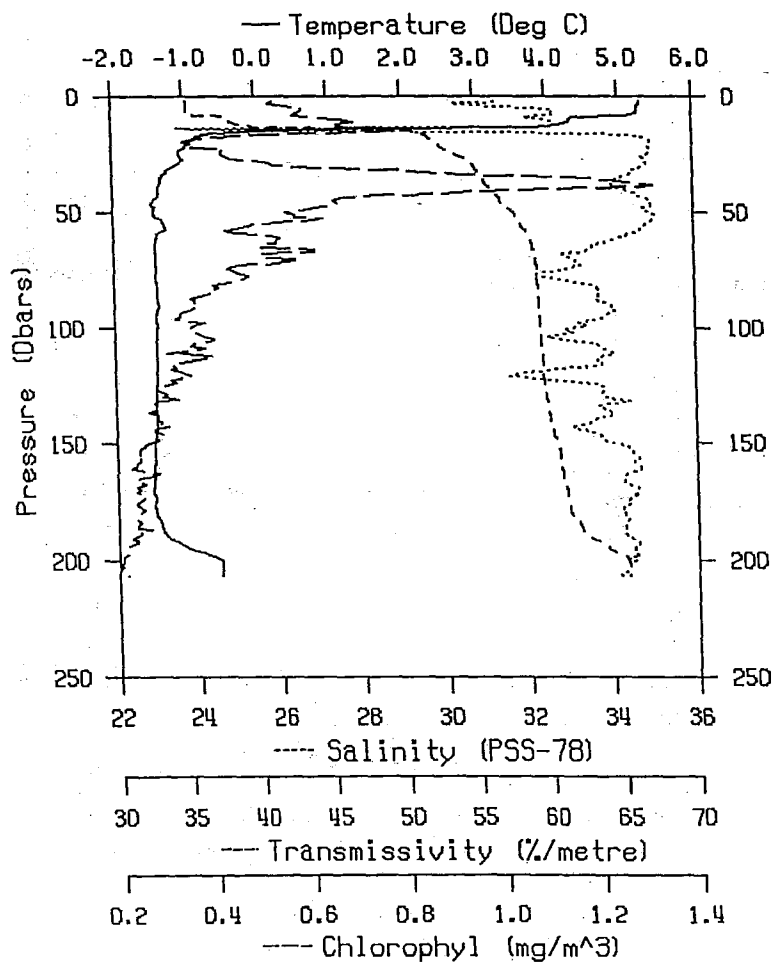
STATION : AR11

REFERENCE NO.: 95-26-079

DATE/TIME : 31/08/95 00:30 UTC

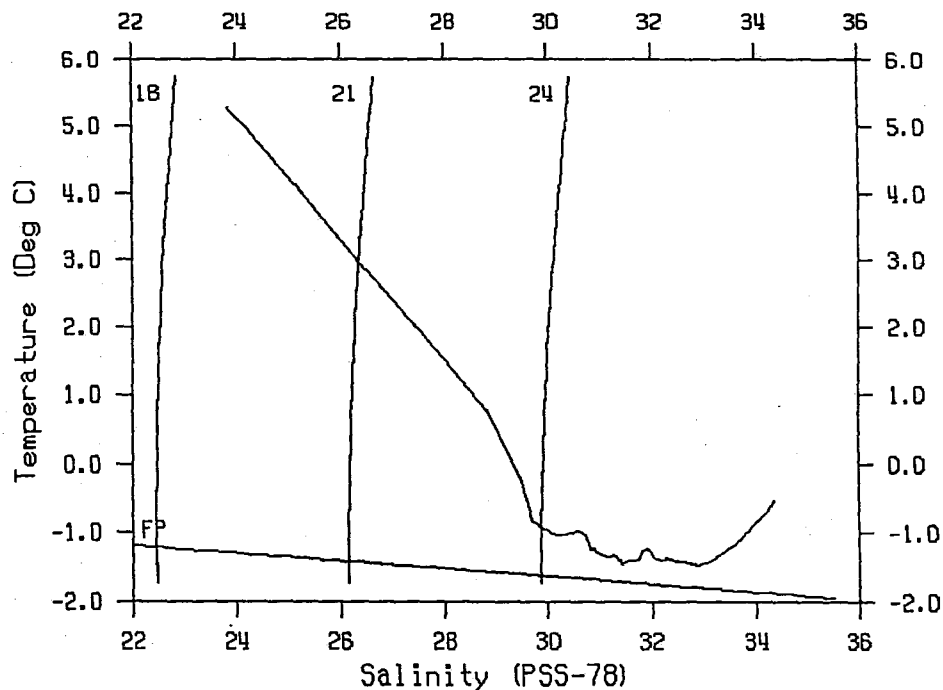
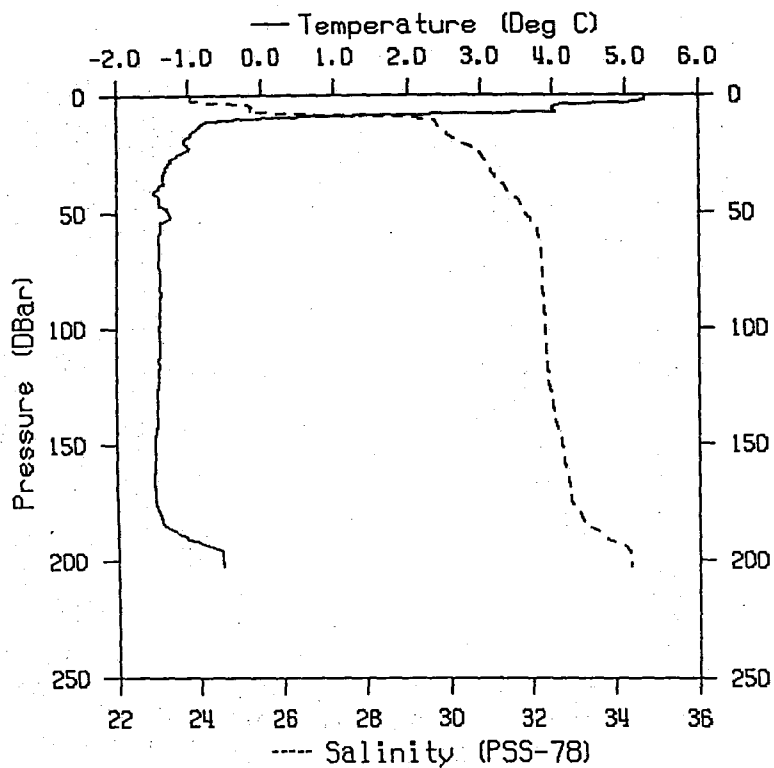
POSITION : 69-53.2N 138-25.9W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	5.268	5.268	23.844	5	886.5	59.4	.59	18.846	1457.7
7	5.256	5.255	23.858	7	885.3	60.6	.59	18.858	1457.7
10	4.356	4.355	24.893	10	799.0	59.9	.67	19.754	1455.3
15	.087	.086	29.211	15	444.1	47.6	.81	23.458	1442.0
20	-.906	-.907	29.872	20	390.2	67.1	.35	24.022	1438.3
25	-1.050	-1.050	30.313	25	355.8	66.9	.43	24.383	1438.3
30	-1.118	-1.119	30.769	30	320.3	66.6	.54	24.754	1438.7
40	-1.356	-1.357	31.165	40	289.2	65.3	1.12	25.080	1438.3
50	-1.414	-1.415	31.708	50	247.1	67.1	.56	25.522	1438.9
75	-1.411	-1.412	32.248	74	205.2	60.9	.45	25.961	1440.0
100	-1.392	-1.394	32.320	99	199.6	61.6	.36	26.018	1440.6
150	-1.451	-1.454	32.704	149	169.5	64.4	.27	26.331	1441.7
200	-.558	-.564	34.345	198	47.0	65.7	.21	27.630	1448.9
207	-.539	-.546	34.367	205	45.4	64.8	.22	27.647	1449.2



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR11  
 REFERENCE NO.: 95-06-080  
 DATE/TIME : 31/08/95 00:30 UTC  
 POSITION : 69-53.2N 138-25.9W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	3.997	3.996	25.279	5	766.9		20.089	1454.2
7	4.052	4.052	25.218	7	772.0		20.036	1454.4
10	-.257	-.258	29.486	10	421.9		23.691	1440.7
15	-.914	-.914	29.867	15	390.6		24.018	1436.2
20	-1.044	-1.045	30.277	20	358.6		24.353	1436.2
25	-1.127	-1.128	30.755	25	321.5		24.743	1436.6
30	-1.287	-1.287	30.947	30	306.2		24.902	1436.1
40	-1.410	-1.411	31.384	40	272.2		25.259	1436.3
50	-1.267	-1.268	31.839	50	237.3		25.625	1439.8
75	-1.383	-1.384	32.248	74	205.4		25.959	1440.2
100	-1.396	-1.398	32.323	99	199.3		26.021	1440.6
150	-1.458	-1.461	32.732	149	167.3		26.354	1441.7
200	-.544	-.550	34.351	198	46.6		27.635	1449.0
203	-.534	-.541	34.357	201	46.2		27.639	1449.1

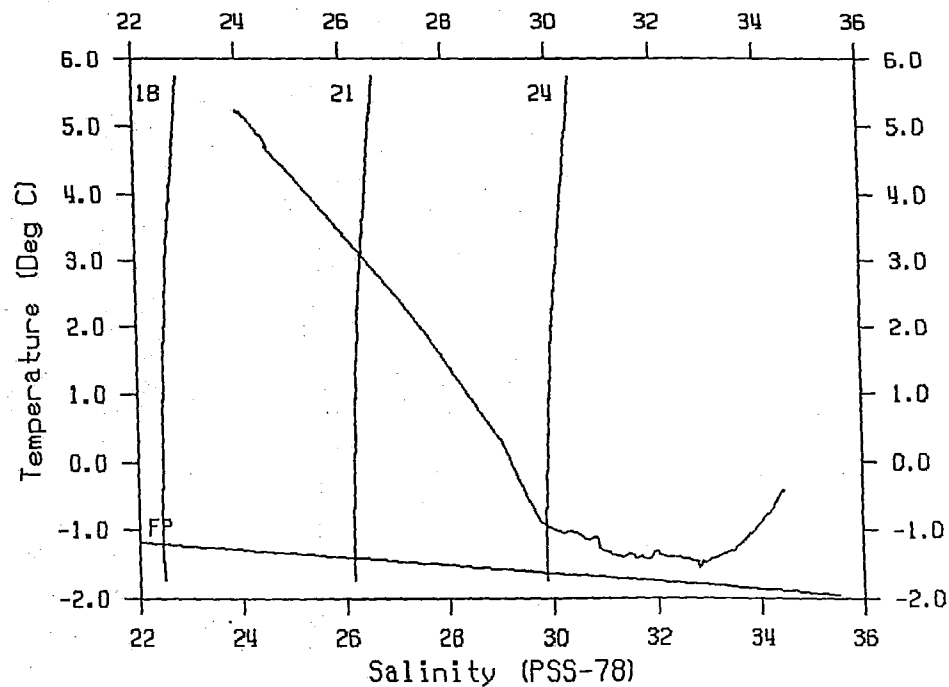
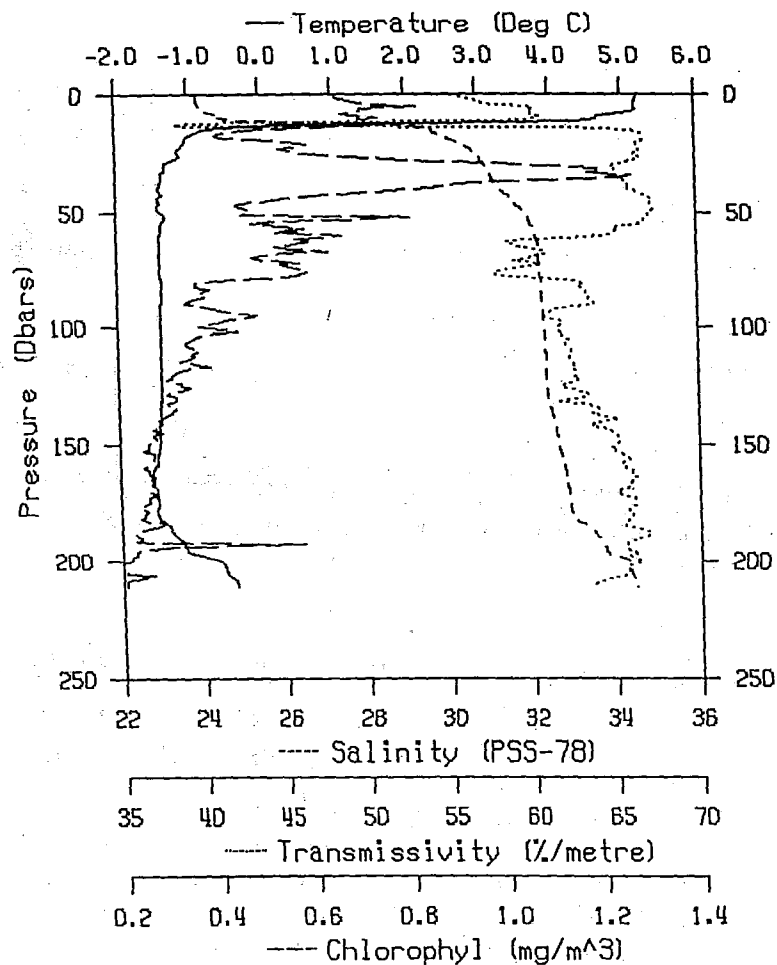




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR11  
 REFERENCE NO.: 95-26-081  
 DATE/TIME : 31/08/95 02:05 UTC  
 POSITION : 69-53.7N 138-26.0W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.194	5.194	24.083	5	867.6	60.0	.83	19.042	1457.7
7	5.126	5.126	24.170	7	860.4	60.1	.71	19.117	1457.6
10	4.692	4.692	24.543	10	828.4	60.7	.75	19.449	1456.3
15	-.803	-.803	29.711	15	402.9	66.3	.47	23.889	1438.5
20	-1.024	-1.024	30.313	20	355.9	66.6	.56	24.382	1438.4
25	-1.122	-1.123	30.769	25	320.4	66.3	.59	24.754	1438.6
30	-1.311	-1.311	30.978	30	303.8	65.0	1.11	24.927	1438.1
40	-1.398	-1.399	31.328	40	276.5	66.0	.80	25.214	1438.3
50	-1.378	-1.379	31.917	50	231.1	67.3	.48	25.691	1439.3
75	-1.409	-1.411	32.251	74	205.0	58.7	.58	25.963	1440.0
100	-1.399	-1.401	32.323	99	199.3	61.7	.37	26.021	1440.6
150	-1.439	-1.441	32.644	149	174.2	65.0	.26	26.282	1441.7
200	-.661	-.668	34.280	198	51.5	66.5	.22	27.582	1448.4
212	-.406	-.413	34.461	210	36.8	63.6	.21	27.717	1450.0

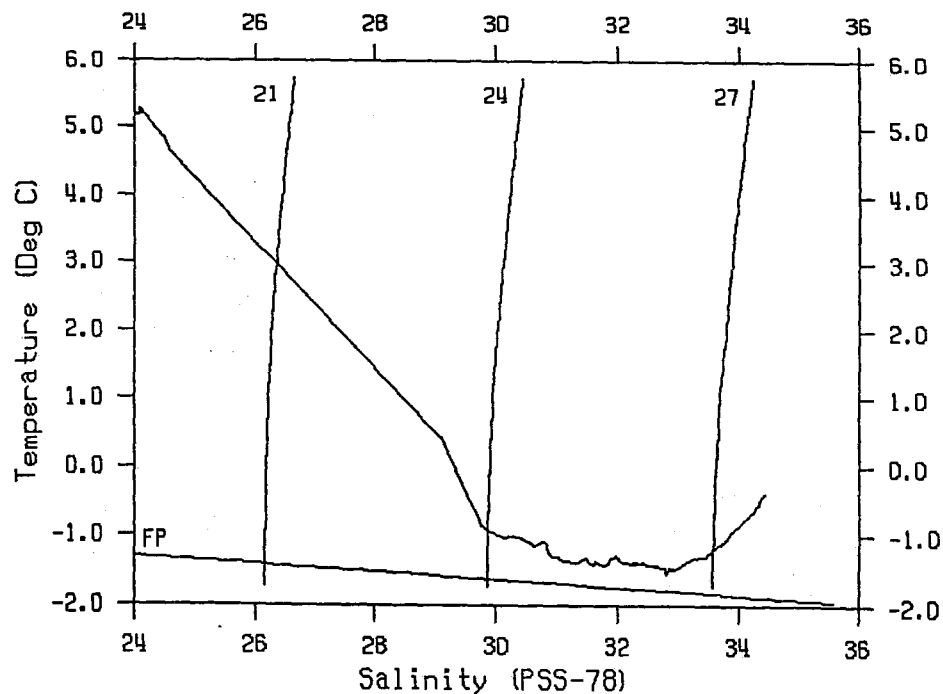
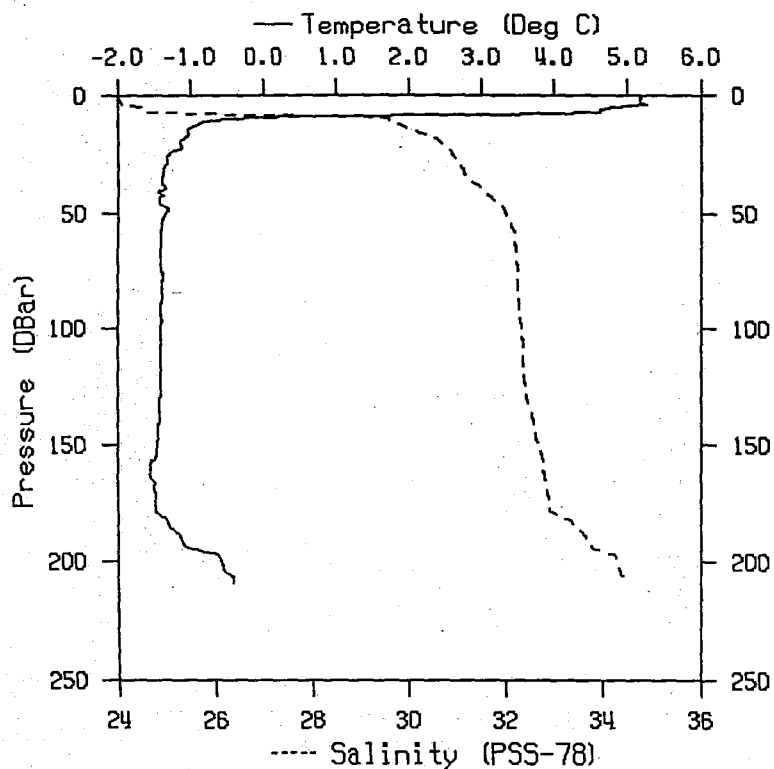
06



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR11  
 REFERENCE NO.: 95-06-082  
 DATE/TIME : 31/08/95 02:11 UTC  
 POSITION : 69-53.7N 138-26.0W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	4.831	4.831	24.485	5	834.0			19.391	1456.7
7	4.552	4.552	24.681	7	816.8			19.570	1455.8
10	-.530	-.530	29.592	10	412.9			23.785	1439.6
15	-1.033	-1.033	30.159	15	367.8			24.258	1438.0
20	-1.145	-1.145	30.654	20	329.3			24.661	1438.3
25	-1.289	-1.289	30.916	25	308.7			24.877	1438.0
30	-1.351	-1.351	31.085	30	295.5			25.015	1438.0
40	-1.410	-1.410	31.571	40	257.8			25.411	1438.6
50	-1.326	-1.327	32.011	50	223.9			25.766	1439.7
75	-1.393	-1.395	32.251	74	205.1			25.962	1440.1
100	-1.399	-1.401	32.333	99	198.6			26.029	1440.6
150	-1.456	-1.459	32.695	149	170.1			26.325	1441.6
200	-.571	-.577	34.326	198	48.3			27.617	1448.8
210	-.401	-.408	34.456	208	39.3			27.713	1450.0

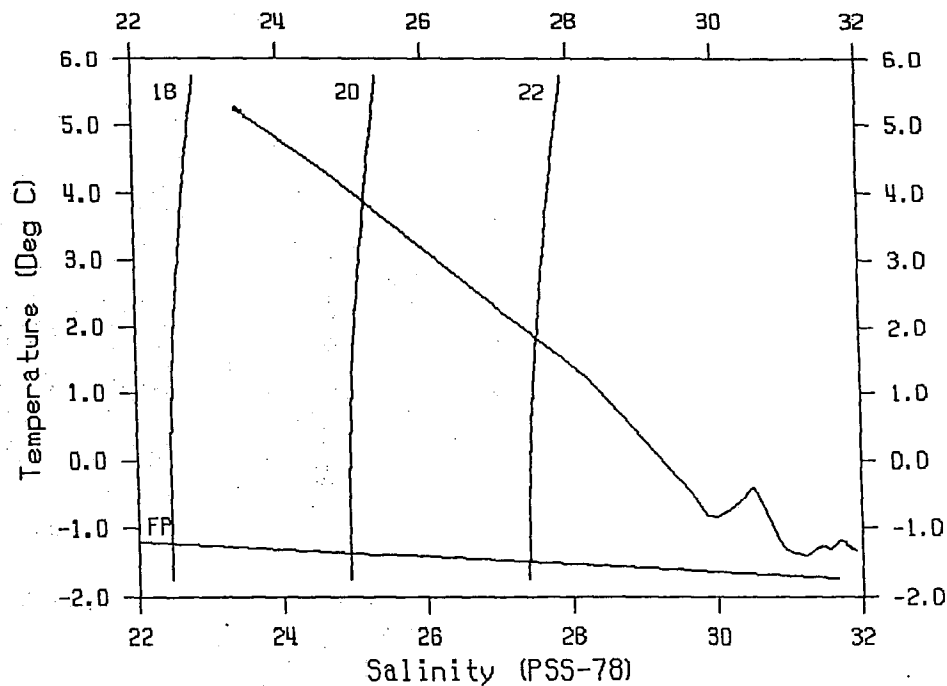
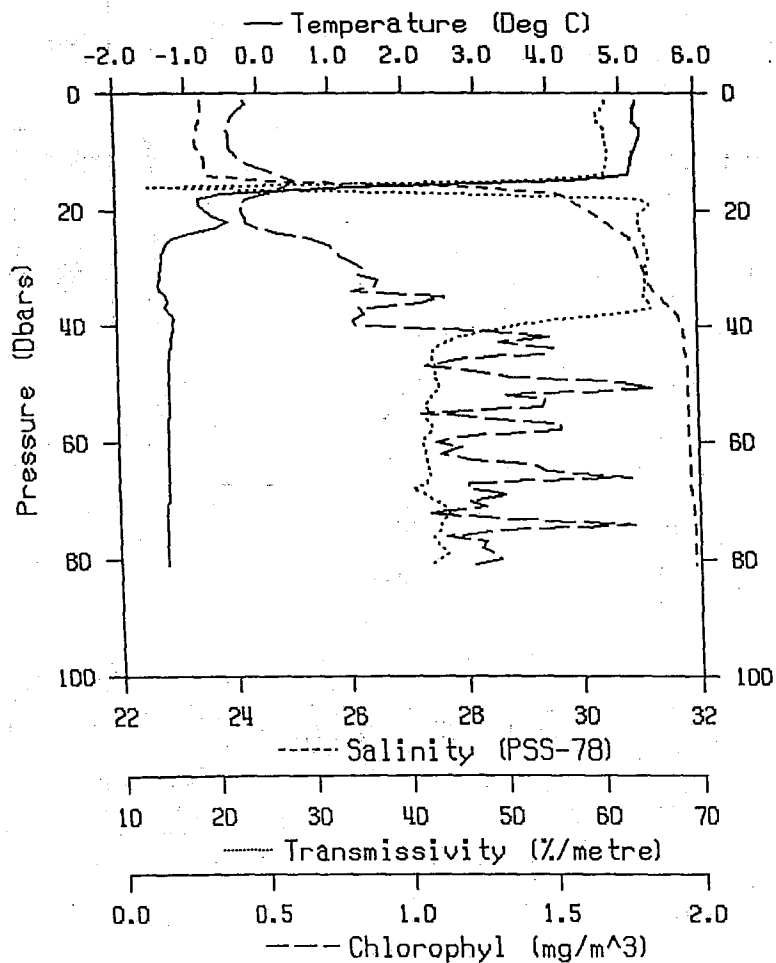
T6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : AR12  
 REFERENCE NO.: 95-26-083  
 DATE/TIME : 31/08/95 20:02 UTC  
 POSITION : 69-29.7N 138- 5.6W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	5.196	5.195	23.493	5	912.6	60.3	.40	18.575	1457.0
7	5.271	5.270	23.444	7	916.9	60.9	.40	18.530	1457.3
10	5.172	5.171	23.504	10	911.5	61.1	.41	18.586	1457.0
15	4.036	4.035	24.995	15	788.8	49.8	.62	19.861	1454.2
20	-.748	-.748	30.150	20	369.1	64.6	.44	24.249	1439.5
25	-1.207	-1.208	30.882	25	311.5	64.8	.68	24.847	1438.3
30	-1.369	-1.370	31.106	30	293.8	64.9	.86	25.033	1438.0
40	-1.204	-1.205	31.750	40	244.5	51.3	.83	25.551	1439.8
50	-1.282	-1.283	31.835	50	237.6	43.5	1.75	25.622	1439.7
75	-1.327	-1.328	31.914	74	231.2	43.3	1.32	25.687	1440.0
81	-1.326	-1.327	31.913	80	231.3	42.5	1.23	25.686	1440.1

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

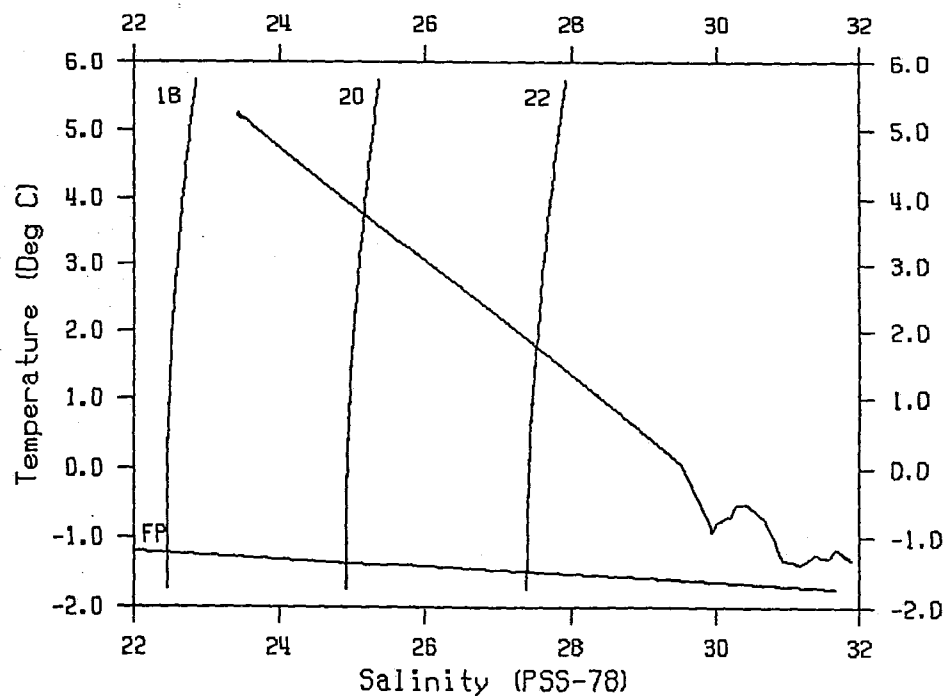
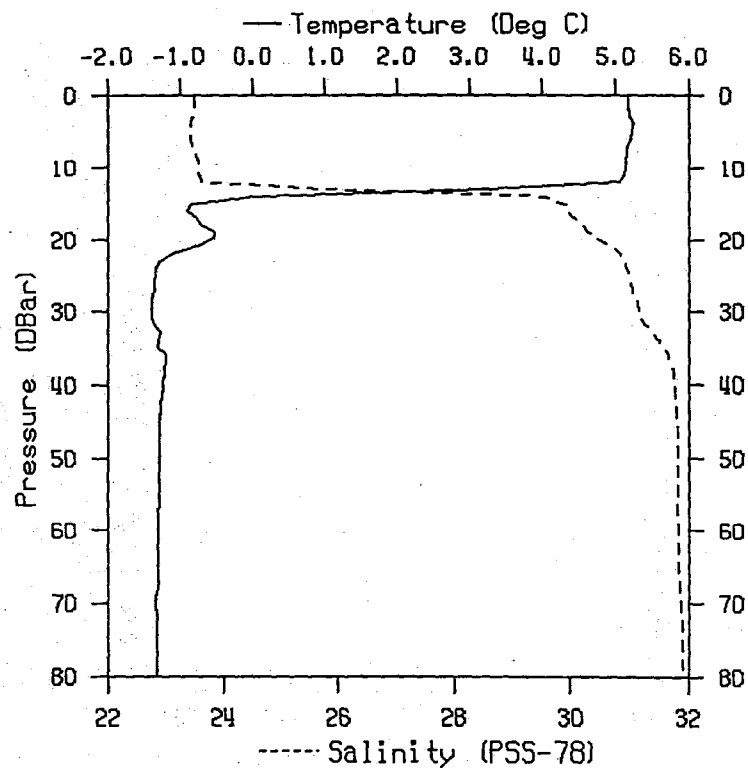
STATION : AR12

REFERENCE NO.: 95-06-084

DATE/TIME : 31/08/95 20:17 UTC

POSITION : 69-29.7N 138- 5.6W

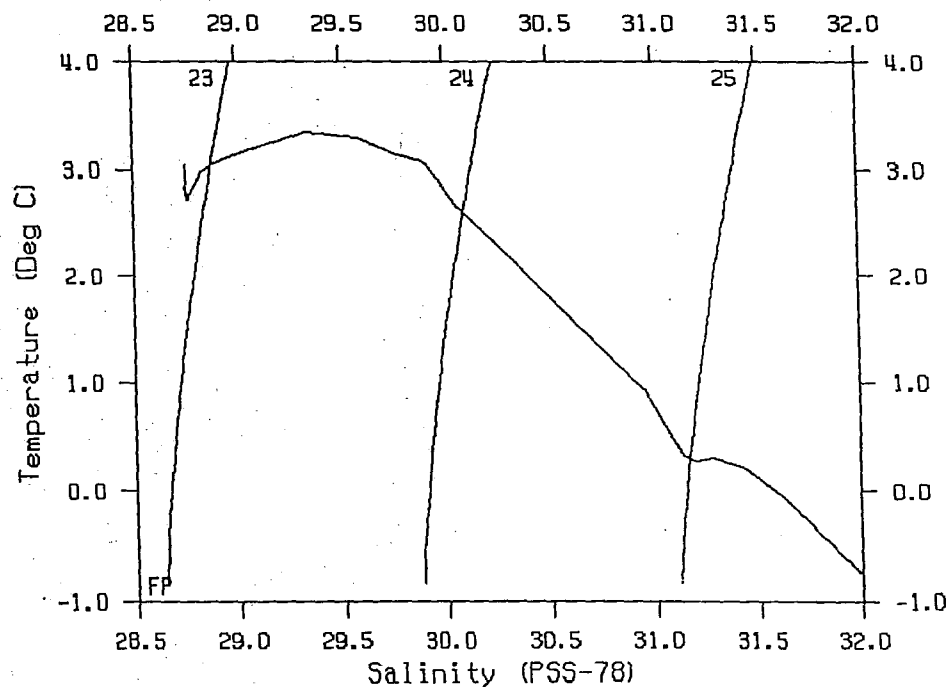
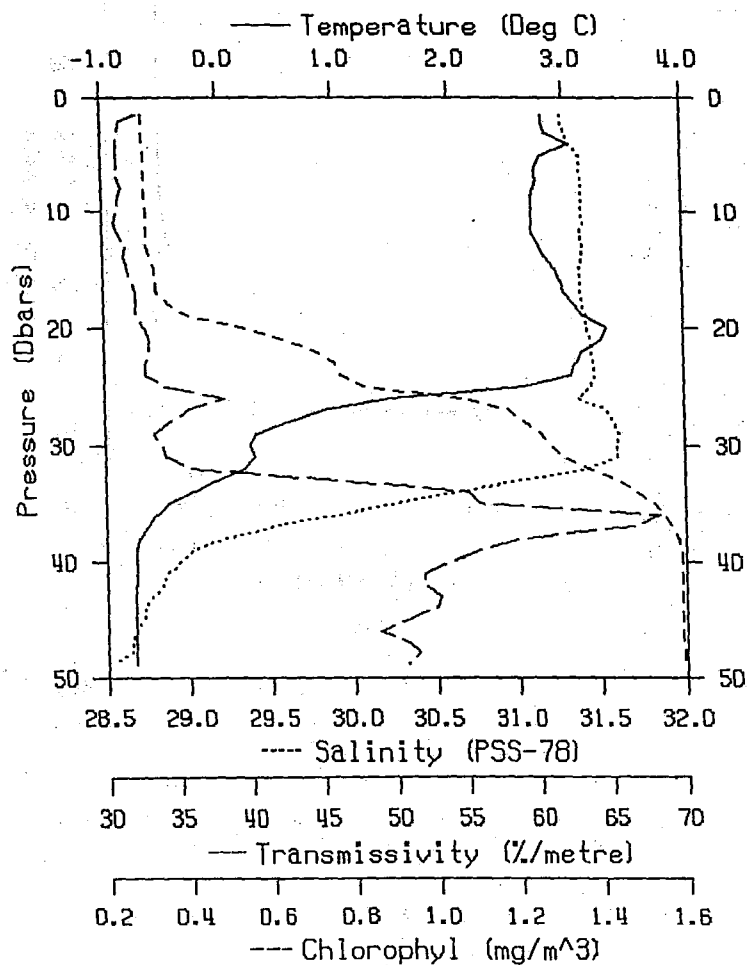
Pres	Temp	Theta	Sal	Dept	SVA	Z Tr Chlo	Sig-t	Sound
5	5.233	5.233	23.416	5	918.7		18.511	1457.1
7	5.172	5.171	23.475	7	913.7		18.564	1456.9
10	5.131	5.130	23.572	10	906.0		18.643	1456.9
15	-0.758	-0.759	29.893	15	389.0		24.035	1439.0
20	-0.545	-0.545	30.466	20	345.4		24.493	1440.9
25	-1.332	-1.332	30.980	25	303.6		24.930	1437.9
30	-1.392	-1.392	31.158	30	289.7		25.076	1437.9
40	-1.226	-1.227	31.760	40	243.6		25.560	1439.7
50	-1.276	-1.279	31.813	50	239.3		25.604	1439.7
75	-1.321	-1.322	31.891	74	233.0		25.668	1440.0
80	-1.319	-1.320	31.887	79	233.3		25.665	1440.1



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BBO1  
 REFERENCE NO.: 95-26-085  
 DATE/TIME : 01/09/95 19:20 UTC  
 POSITION : 71-14.1N 128-46.5W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.817	2.817	28.757	5	493.2	63.1	.24	22.944	1453.6
7	2.757	2.757	28.761	7	492.5	63.2	.24	22.952	1453.4
10	2.720	2.719	28.766	10	491.9	63.2	.24	22.959	1453.3
15	2.912	2.912	28.817	15	489.3	63.0	.26	22.985	1454.2
20	3.350	3.349	29.347	20	452.3	63.4	.30	23.373	1456.9
25	2.632	2.631	30.073	25	391.8	63.7	.35	24.008	1454.8
30	.267	.266	31.202	30	291.8	65.5	.34	25.055	1445.8
40	-.739	-.740	31.978	40	228.3	35.2	1.04	25.722	1442.3
49	-.752	-.753	31.989	49	227.4	30.4	.93	25.731	1442.4

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea

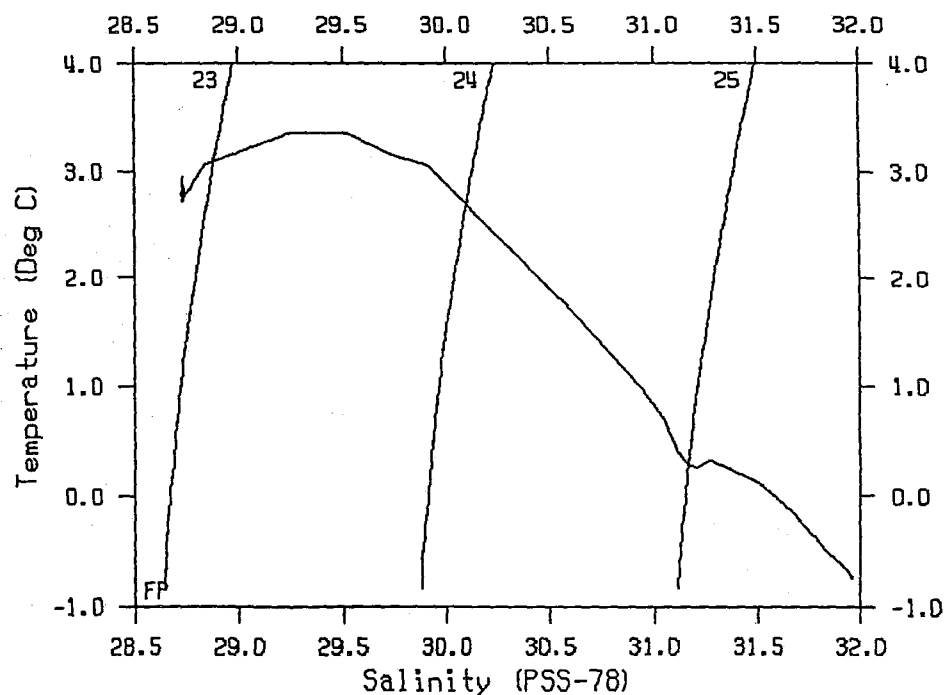
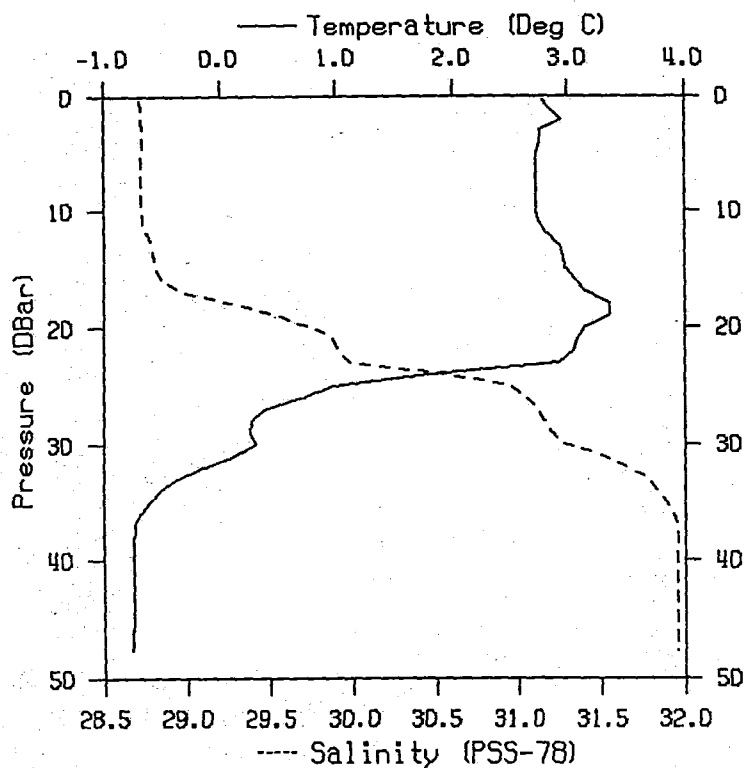
STATION : BB01

REFERENCE NO.: 95-06-086

DATE/TIME : 01/09/95 19:18 UTC

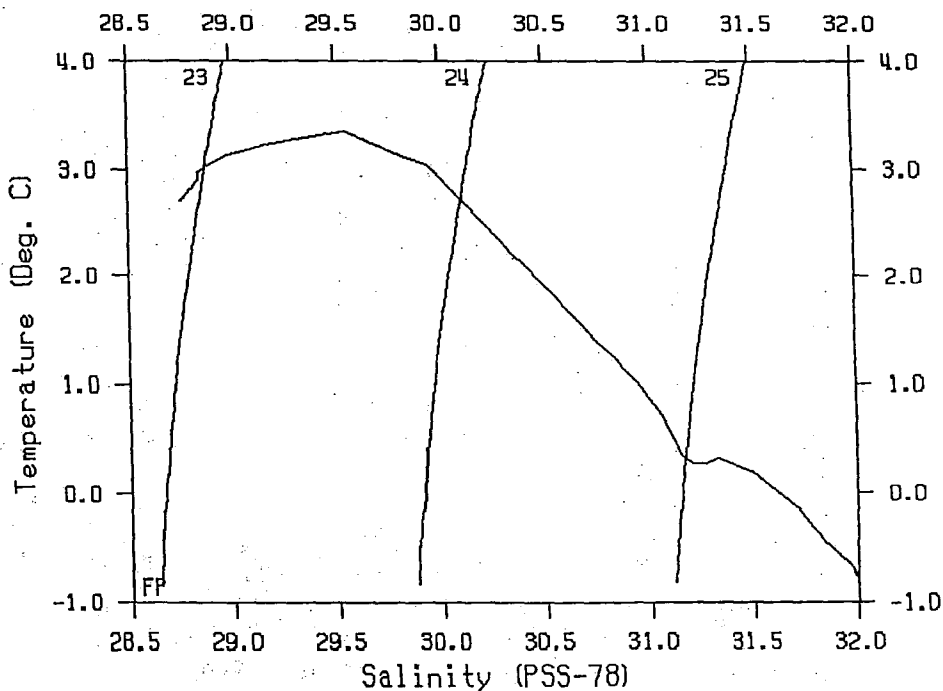
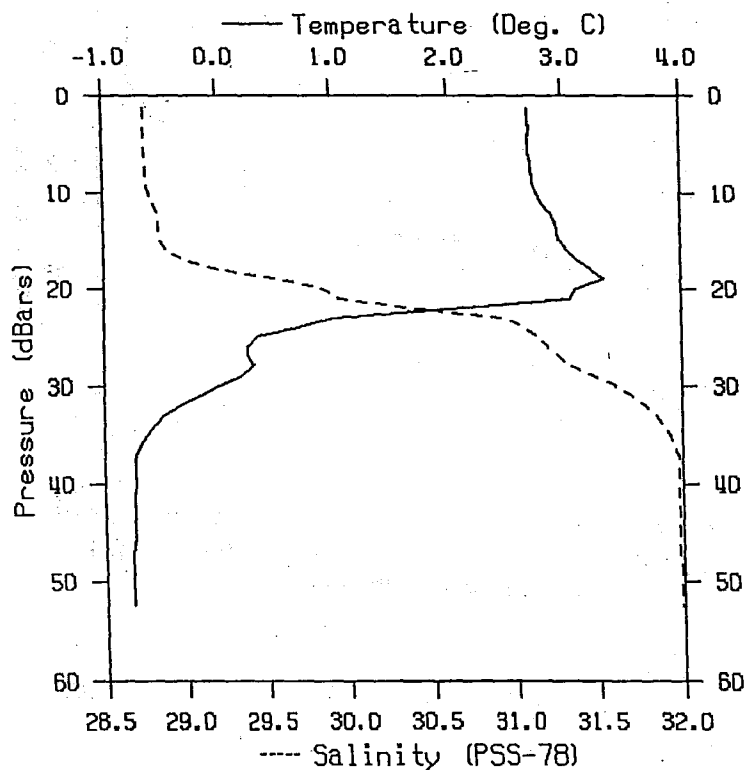
POSITION : 71-14.1N 128-46.5W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	2.729	2.729	28.736	5	494.3		22.934	1453.2
7	2.724	2.723	28.731	7	494.6		22.930	1453.2
10	2.727	2.726	28.732	10	494.6		22.931	1453.2
15	2.983	2.982	28.815	15	490.0		22.978	1454.5
20	3.157	3.155	29.753	20	419.9		23.713	1456.6
25	.973	.972	30.948	25	314.7		24.815	1448.6
30	.310	.309	31.269	30	286.9		25.107	1446.1
40	-.737	-.736	31.956	40	230.0		25.704	1442.3
48	-.749	-.750	31.961	47	229.5		25.708	1442.3



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BBO1  
 REFERENCE NO.: 95-26-087  
 DATE/TIME : 01/09/95 19:19 UTC  
 POSITION : 71-14.1N 128-46.5W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.711	2.711	28.759	5	492.4			22.954	1453.1
7	2.729	2.728	28.769	7	491.7			22.960	1453.3
10	2.778	2.777	28.794	10	490.2			22.976	1453.5
15	2.970	2.970	28.850	15	487.3			23.007	1454.5
20	3.113	3.112	29.845	20	412.6			23.789	1456.5
25	.350	.349	31.148	25	296.4			25.008	1446.0
30	.023	.022	31.601	30	260.2			25.387	1445.2
40	-.732	-.733	31.981	40	228.1			25.724	1442.3
50	-.762	-.763	31.988	50	227.4			25.730	1442.4
53	-.763	-.764	31.989	52	227.3			25.731	1442.4



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : B02

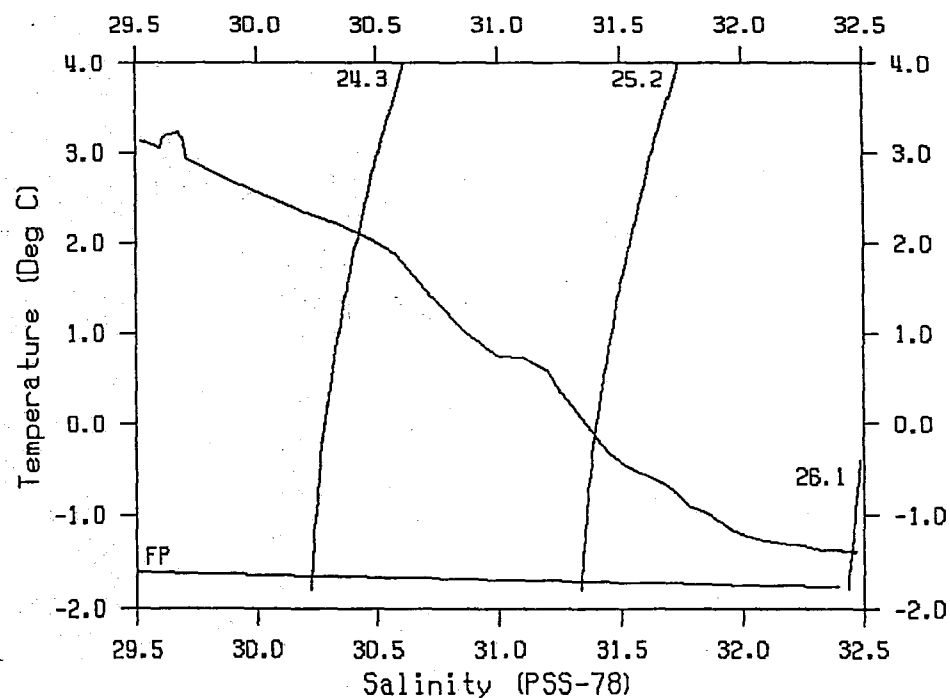
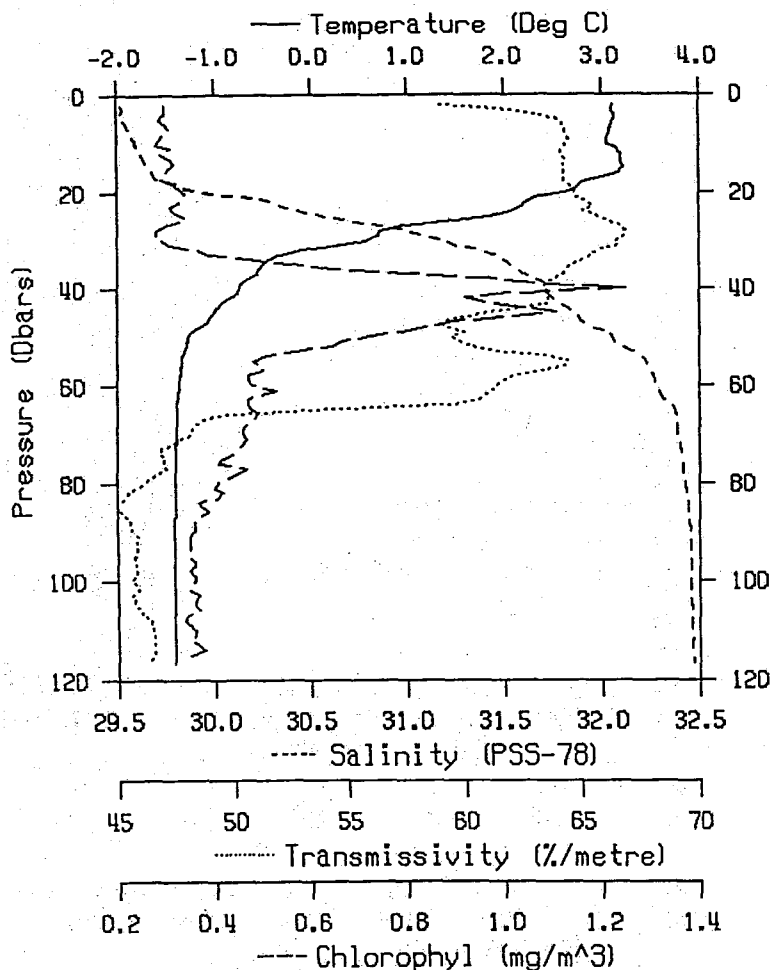
REFERENCE NO.: 95-26-088

DATE/TIME : 01/09/95 22:10 UTC

POSITION : 71-22.8N 128-16.3W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.139	3.138	29.526	5	437.1	64.0	.29	23.533	1456.0
7	3.095	3.095	29.566	7	433.7	64.3	.31	23.568	1455.9
10	3.064	3.063	29.600	10	430.9	64.4	.26	23.598	1455.8
15	3.234	3.233	29.676	15	426.4	64.2	.31	23.645	1456.7
20	2.628	2.627	29.940	20	401.6	64.8	.34	23.902	1454.5
25	1.866	1.865	30.579	25	348.0	65.8	.34	24.466	1452.1
30	.583	.582	31.194	30	293.9	66.4	.30	25.033	1447.2
40	-.738	-.739	31.719	40	248.2	63.5	1.24	25.512	1442.0
50	-1.258	-1.259	32.060	50	220.3	59.5	.73	25.804	1440.1
75	-1.391	-1.392	32.416	74	192.4	47.1	.42	26.096	1440.4
100	-1.401	-1.403	32.458	99	188.9	45.7	.36	26.130	1440.8
117	-1.399	-1.401	32.471	116	187.8	46.5	.36	26.141	1441.1

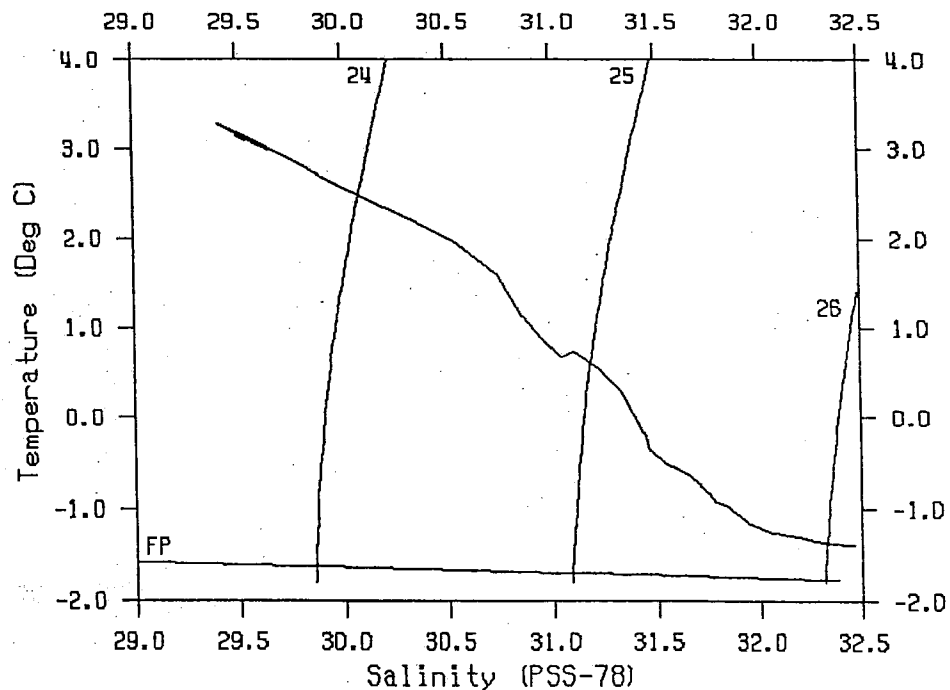
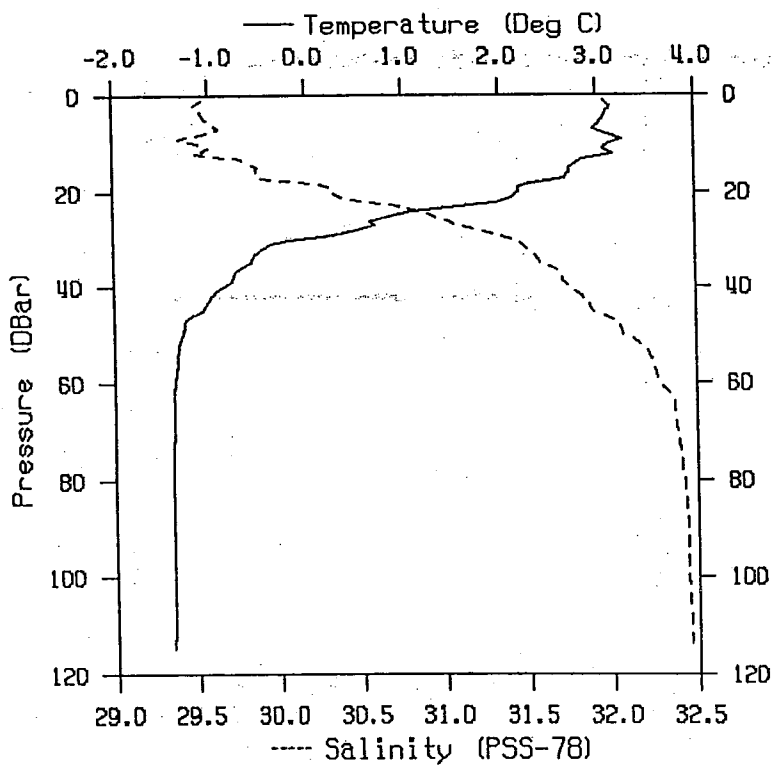
97





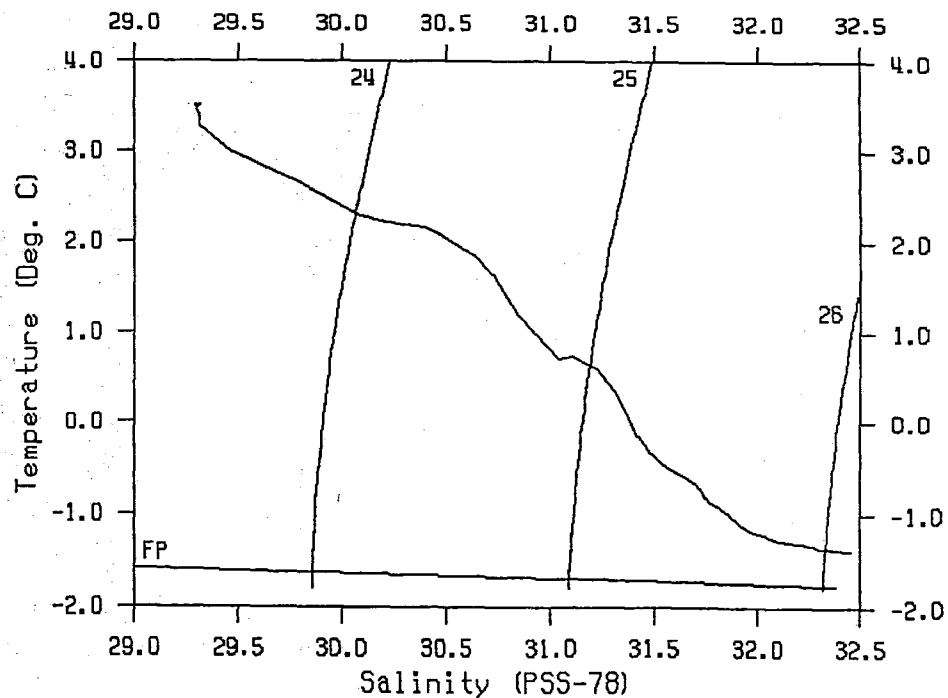
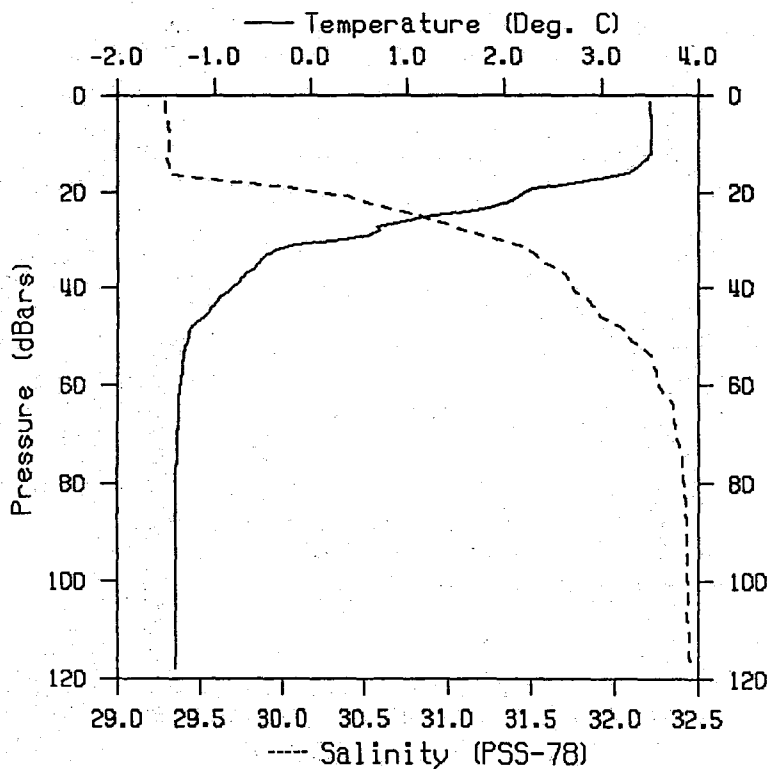
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BBO2  
 REFERENCE NO.: 95-06-089  
 DATE/TIME : 01/09/95 22:12 UTC  
 POSITION : 71-22.8N 128-16.3W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.066	3.066	29.579	5	432.5			23.581	1455.7
7	2.983	2.983	29.653	7	426.3			23.646	1455.5
10	3.152	3.151	29.528	10	437.0			23.533	1456.1
15	2.726	2.727	29.884	15	406.8			23.850	1454.8
20	2.206	2.205	30.331	20	369.1			24.245	1453.2
25	.888	.887	30.946	25	314.4			24.819	1448.2
30	-.157	-.158	31.438	30	272.0			25.264	1444.1
40	-.833	-.834	31.750	40	245.6			25.540	1441.5
50	-1.270	-1.270	32.073	50	219.3			25.815	1440.1
75	-1.388	-1.390	32.405	74	193.2			26.088	1440.4
100	-1.397	-1.399	32.446	99	189.9			26.120	1440.8
115	-1.400	-1.403	32.459	114	188.7			26.131	1441.0



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB02  
 REFERENCE NO.: 95-26-090  
 DATE/TIME : 01/09/95 22:19 UTC  
 POSITION : 71-22.8N 128-16.3W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	3.515	3.515	29.303	5	456.9			23.325	1457.3
7	3.512	3.512	29.313	7	456.1			23.333	1457.3
10	3.510	3.510	29.315	10	456.0			23.335	1457.4
15	3.356	3.355	29.314	15	454.9			23.347	1456.8
20	2.223	2.222	30.214	20	378.2			24.149	1453.1
25	1.170	1.169	30.844	25	323.7			24.721	1449.3
30	.337	.336	31.308	30	284.0			25.137	1446.2
40	-.804	-.805	31.748	40	245.8			25.538	1441.7
50	-1.260	-1.261	32.074	50	219.3			25.815	1440.1
75	-1.384	-1.386	32.401	74	193.6			26.084	1440.4
100	-1.395	-1.397	32.439	99	190.4			26.115	1440.8
118	-1.392	-1.395	32.453	117	189.2			26.126	1441.1



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : BB03

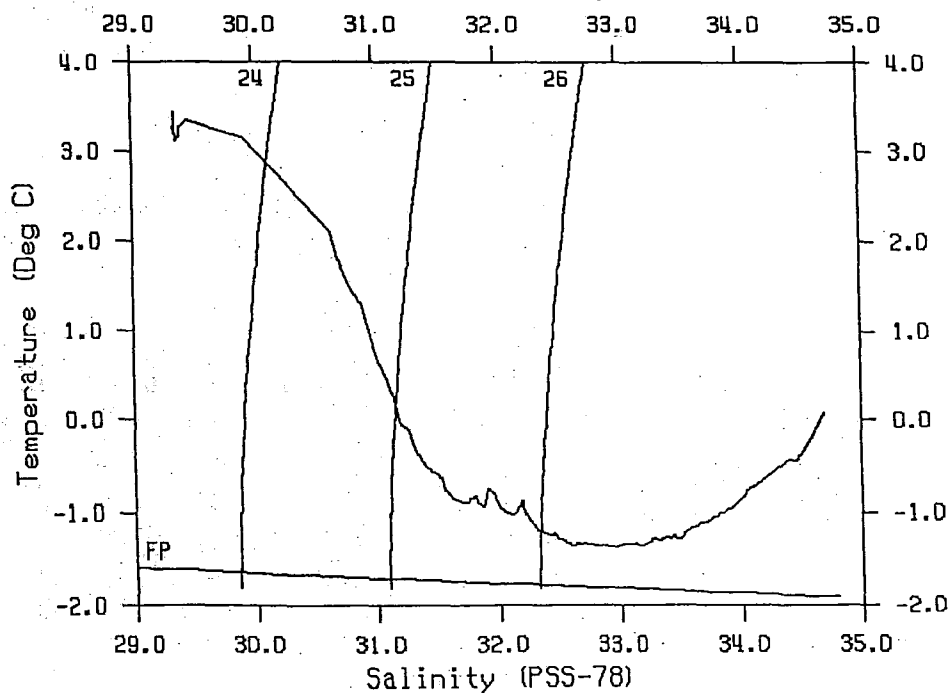
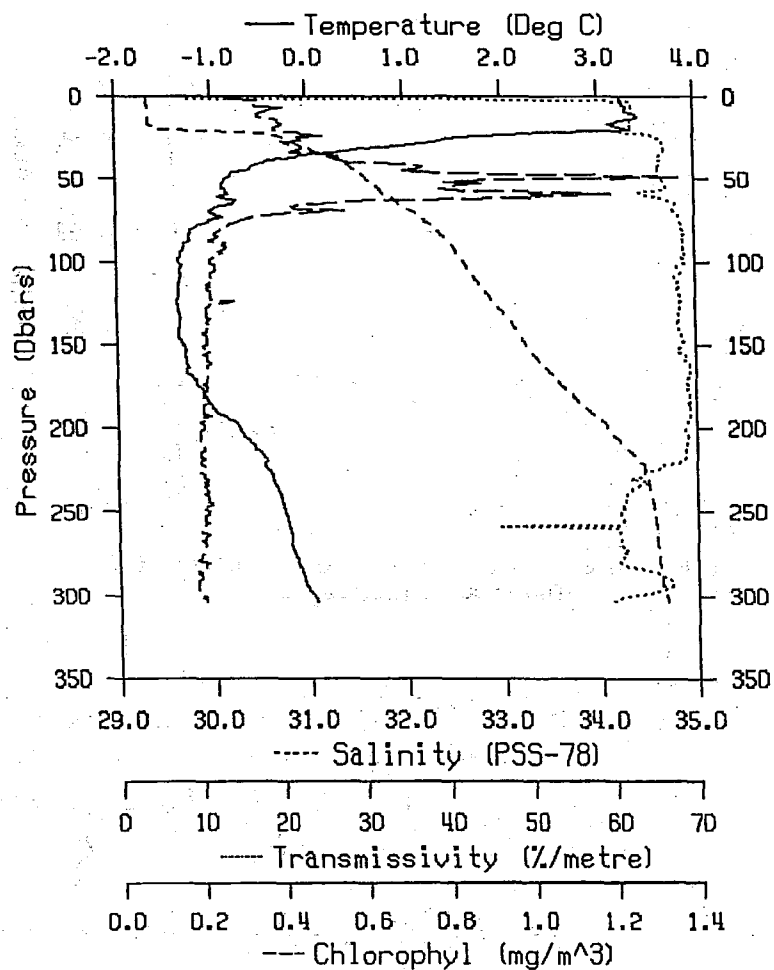
REFERENCE NO.: 95-26-091

DATE/TIME : 02/09/95 00:20 UTC

POSITION : 71-31.8N 127-41.6W

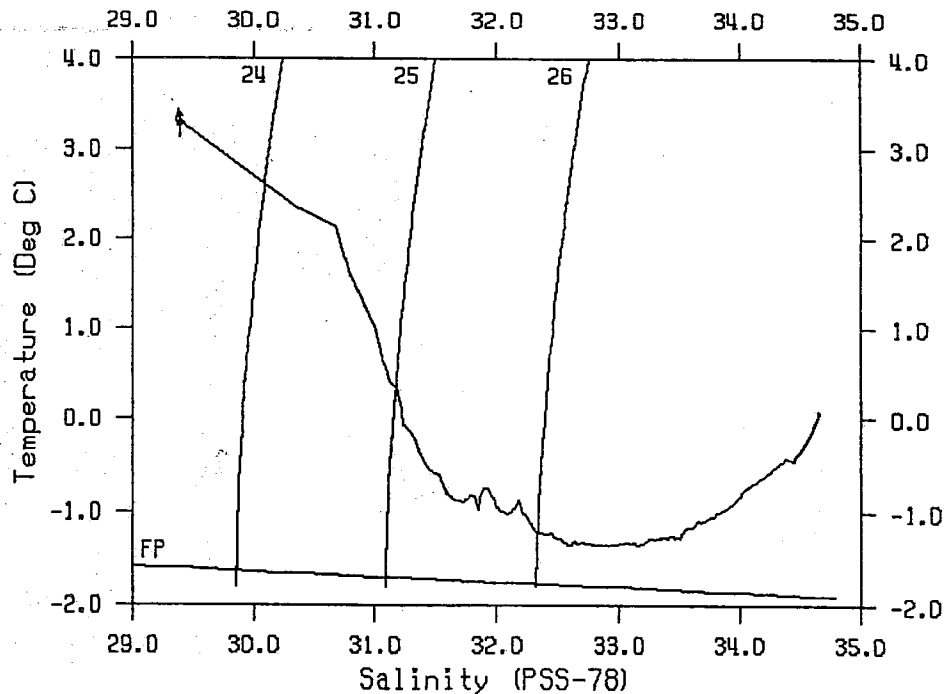
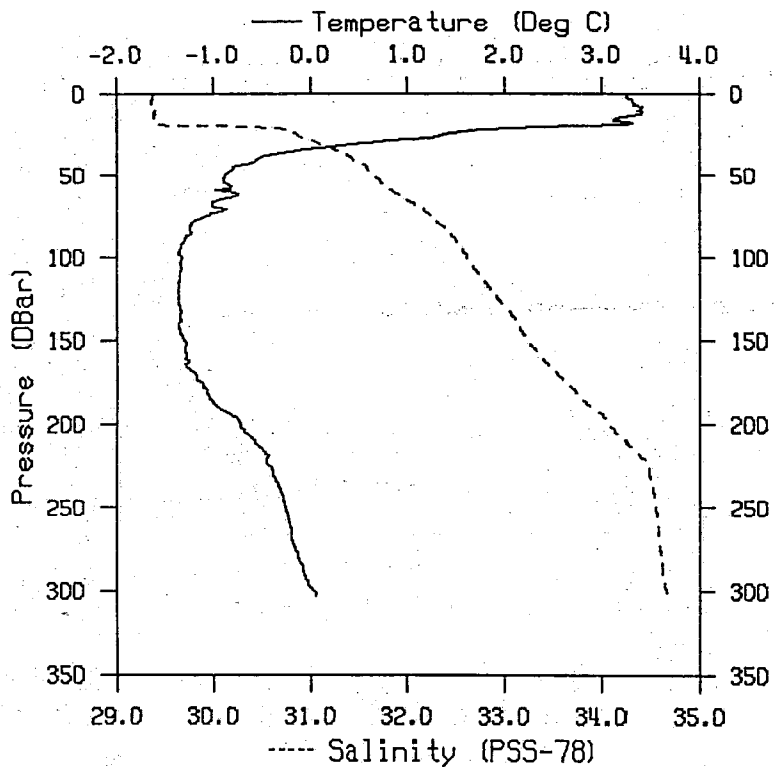
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.280	3.280	29.347	5	451.7	62.7	.34	23.379	1456.4
7	3.313	3.313	29.349	7	451.9	62.7	.42	23.378	1456.5
10	3.354	3.353	29.351	10	452.0	62.7	.36	23.376	1456.8
15	3.246	3.245	29.355	15	450.9	62.4	.40	23.388	1456.4
20	3.353	3.352	29.461	20	443.6	62.6	.39	23.464	1457.1
25	1.596	1.595	30.749	25	333.4	65.4	.45	24.619	1451.1
30	1.002	1.000	30.937	30	315.7	66.5	.44	24.805	1448.8
40	-.449	-.450	31.380	40	275.3	66.0	.58	25.228	1442.8
50	-.835	-.836	31.622	50	255.3	66.1	1.02	25.436	1441.5
75	-1.012	-1.013	32.222	74	208.4	68.3	.31	25.928	1441.9
100	-1.352	-1.354	32.615	99	177.0	69.0	.23	26.257	1441.2
150	-1.303	-1.306	33.251	149	127.9	68.5	.22	26.771	1443.1
200	-.722	-.728	34.069	198	65.8	68.8	.21	27.430	1447.8
250	-.256	-.265	34.556	248	32.3	60.8	.22	27.787	1451.4
305	.073	.062	34.685	302	24.4	59.3	.21	27.874	1454.0

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB03  
 REFERENCE NO.: 95-06-092  
 DATE/TIME : 02/09/95 00:17 UTC  
 POSITION : 71-31.8N 127-41.6W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	3.315	3.315	29.368	5	450.4			23.393	1456.5
7	3.331	3.331	29.360	7	451.1			23.386	1456.6
10	3.371	3.370	29.412	10	447.5			23.424	1456.9
15	3.157	3.156	29.393	15	447.3			23.425	1456.1
20	2.325	2.324	30.390	20	365.4			24.284	1453.8
25	1.396	1.395	30.867	25	323.2			24.726	1450.4
30	.593	.592	31.079	30	302.8			24.940	1447.1
40	-.542	-.543	31.451	40	269.5			25.289	1442.5
50	-.876	-.877	31.661	50	252.1			25.470	1441.4
75	-1.052	-1.054	32.250	74	206.1			25.952	1441.7
100	-1.317	-1.319	32.621	99	176.6			26.261	1441.4
150	-1.285	-1.288	33.254	149	127.8			26.773	1443.2
200	-.714	-.720	34.093	198	65.5			27.433	1447.9
250	-.251	-.260	34.554	248	32.5			27.785	1451.5
304	.076	.064	34.658	301	26.4			27.852	1454.0



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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

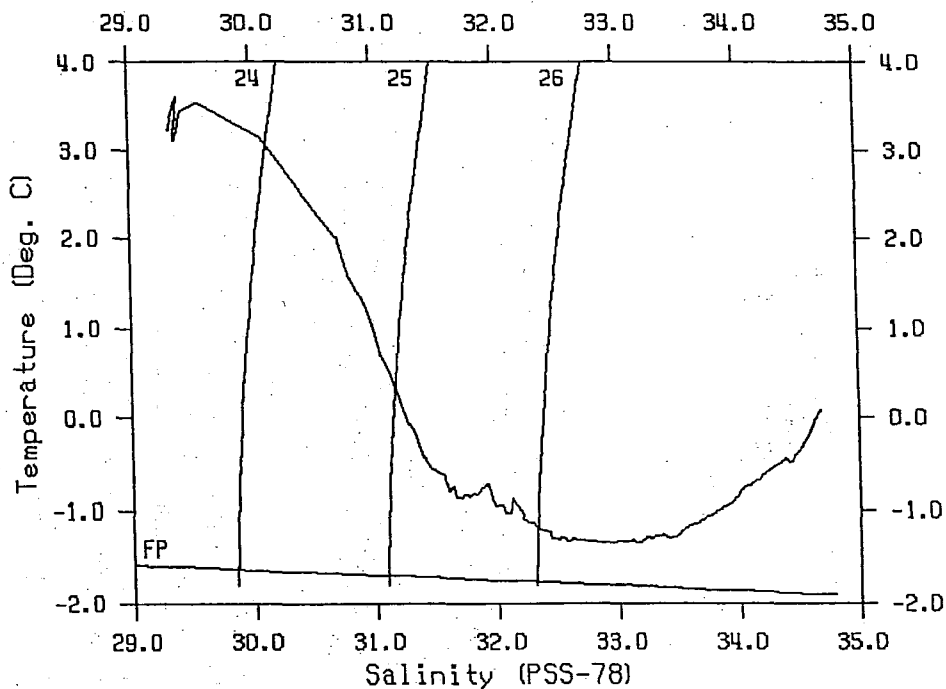
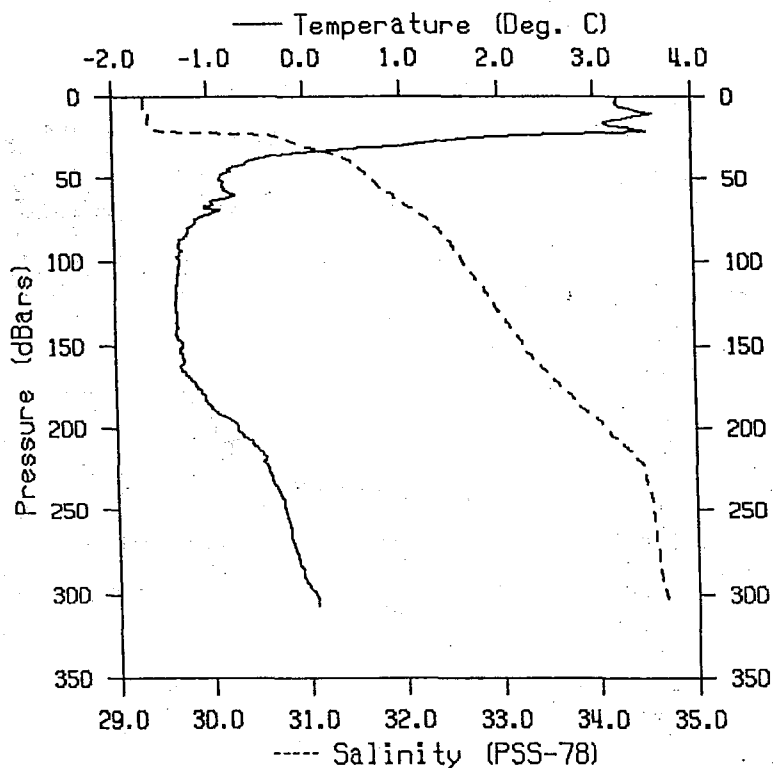
STATION : BB03

REFERENCE NO.: 95-26-093

DATE/TIME : 02/09/95 00:22 UTC

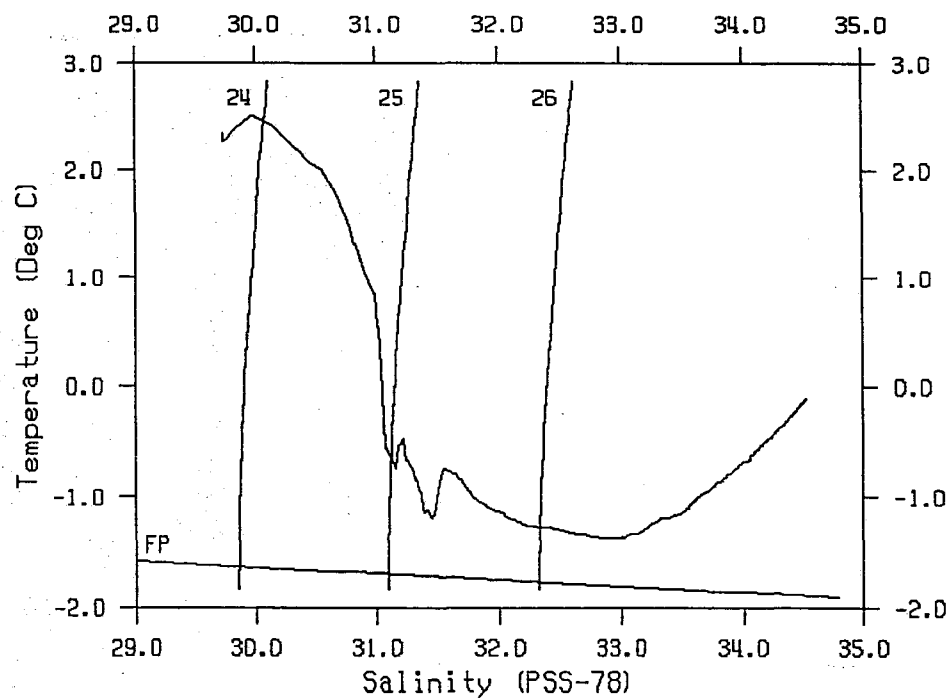
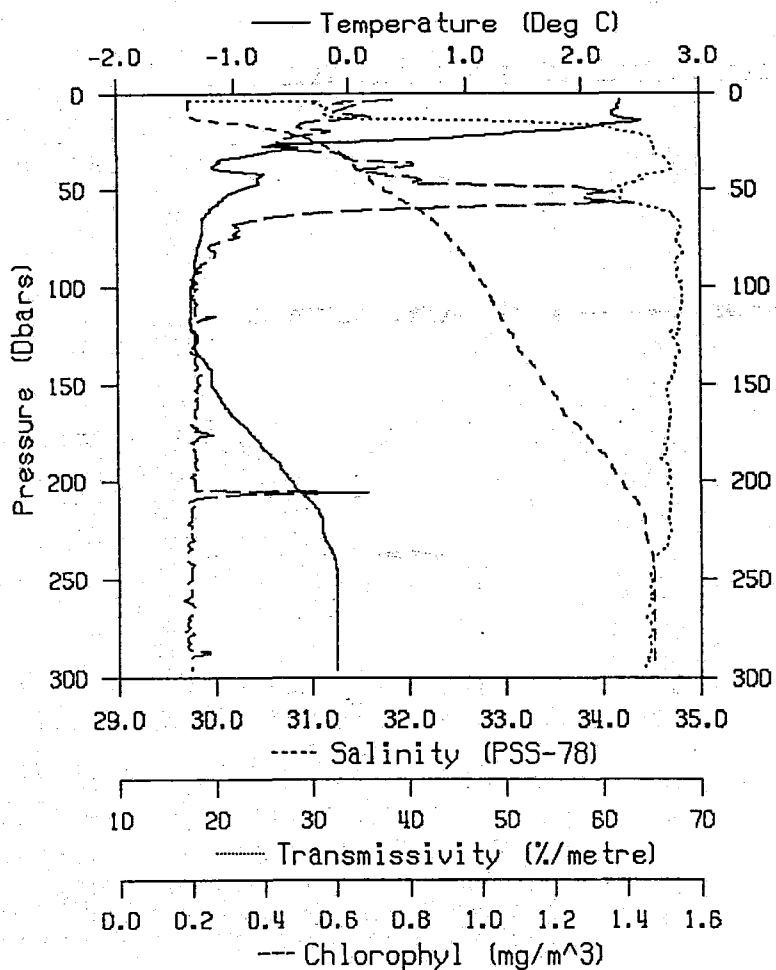
POSITION : 71-31.8N 127-41.6W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
5	3.246	3.245	29.342	5	451.9		23.378	1456.2
7	3.353	3.352	29.353	7	451.9		23.378	1456.7
10	3.605	3.604	29.407	10	449.7		23.400	1457.9
15	3.151	3.151	29.378	15	448.4		23.414	1456.0
20	3.460	3.458	29.439	20	446.2		23.437	1457.5
25	1.741	1.740	30.761	25	333.4		24.620	1451.8
30	1.004	1.003	30.992	30	311.5		24.849	1448.9
40	-.577	-.578	31.499	40	265.7		25.329	1442.4
50	-.867	-.868	31.701	50	249.1		25.502	1441.5
75	-1.130	-1.132	32.261	74	205.1		25.963	1441.4
100	-1.307	-1.309	32.616	99	177.1		26.256	1441.4
150	-1.287	-1.290	33.251	149	128.0		26.771	1443.2
200	-.719	-.725	34.088	198	65.9		27.429	1447.8
250	-.247	-.255	34.559	248	32.2		27.788	1451.5
308	.075	.063	34.686	305	24.3		27.874	1454.1



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BBO4  
 REFERENCE NO.: 95-26-094  
 DATE/TIME : 02/09/91 14:25 UTC  
 POSITION : 71-49.7N 126-35.2W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	2.327	2.327	29.739	5	415.1	30.3	.60	23.762	1452.7
7	2.320	2.320	29.743	7	414.8	31.8	.63	23.766	1452.7
10	2.266	2.266	29.731	10	415.3	31.4	.60	23.761	1452.5
15	2.411	2.410	30.156	15	383.9	53.5	.51	24.090	1453.8
20	1.449	1.448	30.787	20	329.7	62.8	.59	24.658	1450.4
25	-.011	-.012	31.050	25	302.4	65.0	.44	24.944	1444.2
30	-.663	-.664	31.250	30	284.6	65.5	.52	25.131	1441.5
40	-1.088	-1.089	31.488	40	265.0	67.1	.66	25.335	1440.0
50	-.944	-.945	31.759	50	244.4	61.8	1.30	25.551	1441.2
75	-1.281	-1.283	32.427	74	191.8	67.9	.33	26.102	1440.9
100	-1.367	-1.369	32.806	99	162.3	68.0	.20	26.412	1441.4
150	-1.192	-1.196	33.411	149	116.1	66.8	.23	26.897	1443.9
200	-.495	-.502	34.198	198	58.5	67.1	.21	27.508	1449.0
250	-.118	-.127	34.525	248	35.5	65.0	.20	27.755	1452.0
296	-.111	-.122	34.530	293	35.1	64.5	.20	27.758	1452.8



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

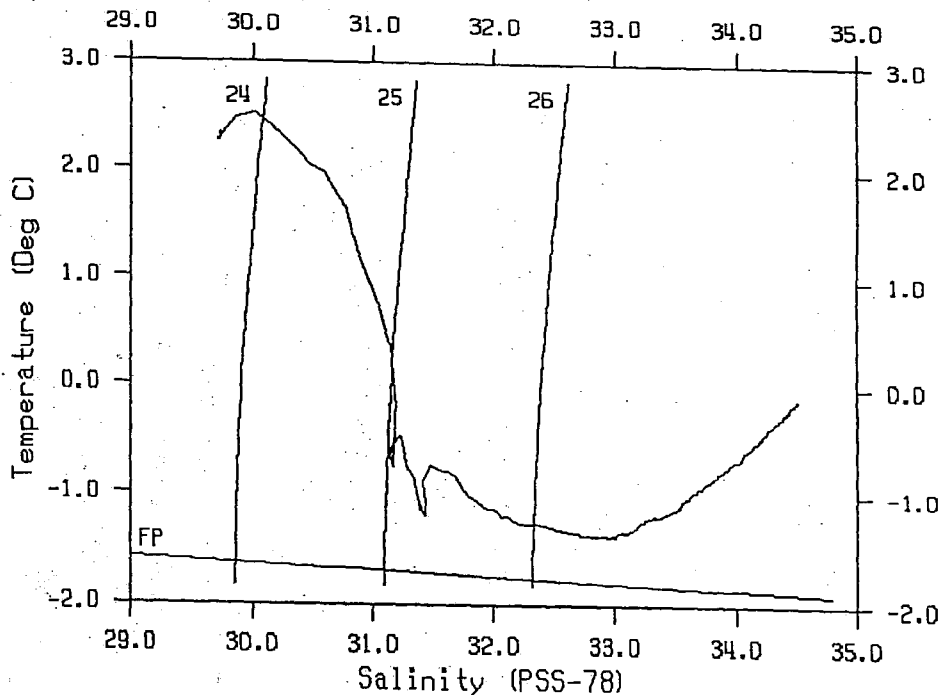
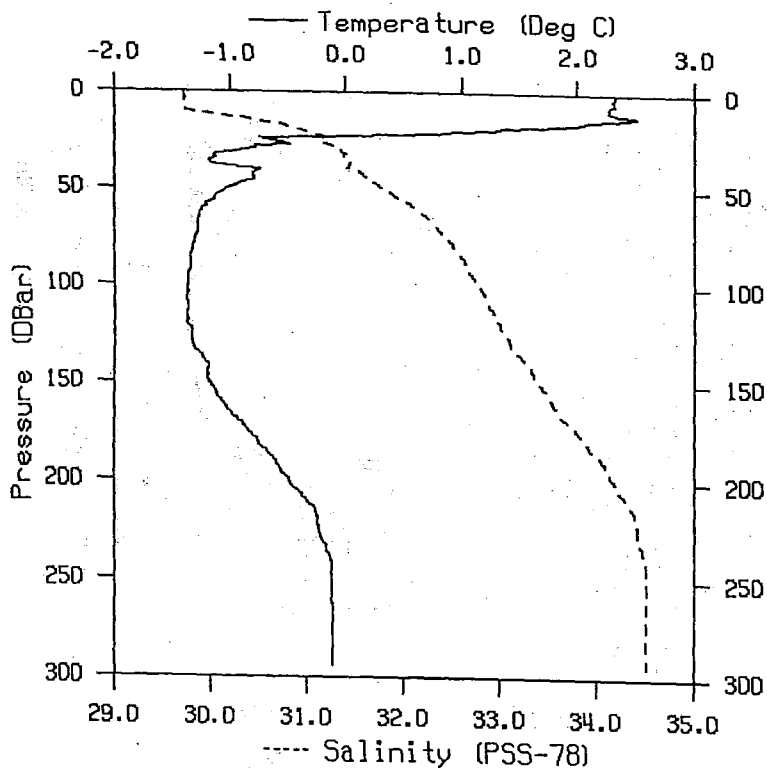
STATION : BBO4

REFERENCE NO.: 95-06-095

DATE/TIME : 02/09/95 14:24 UTC

POSITION : 71-49.7N 126-35.2W

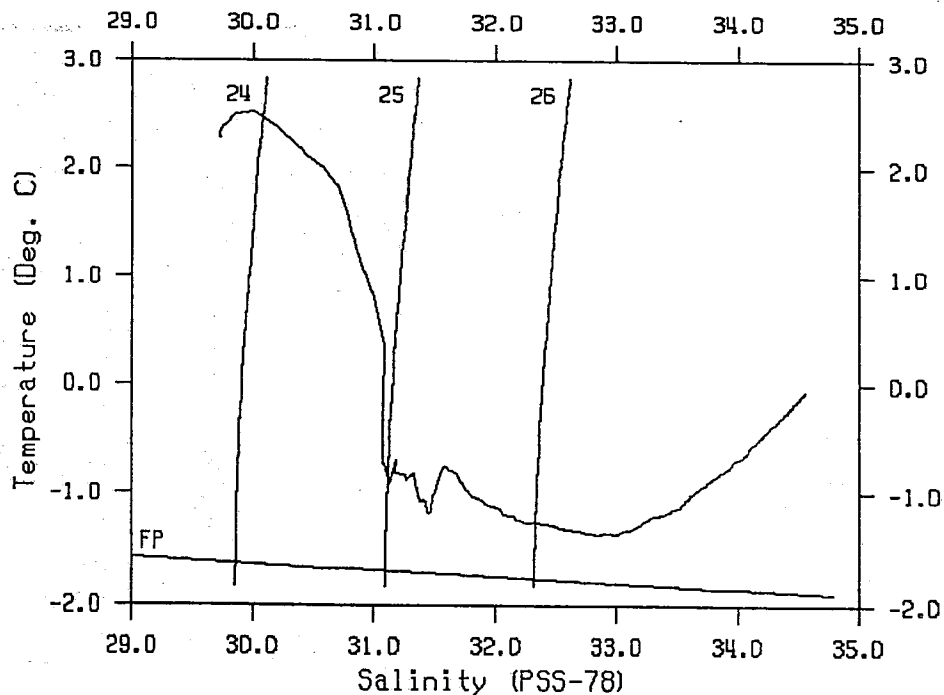
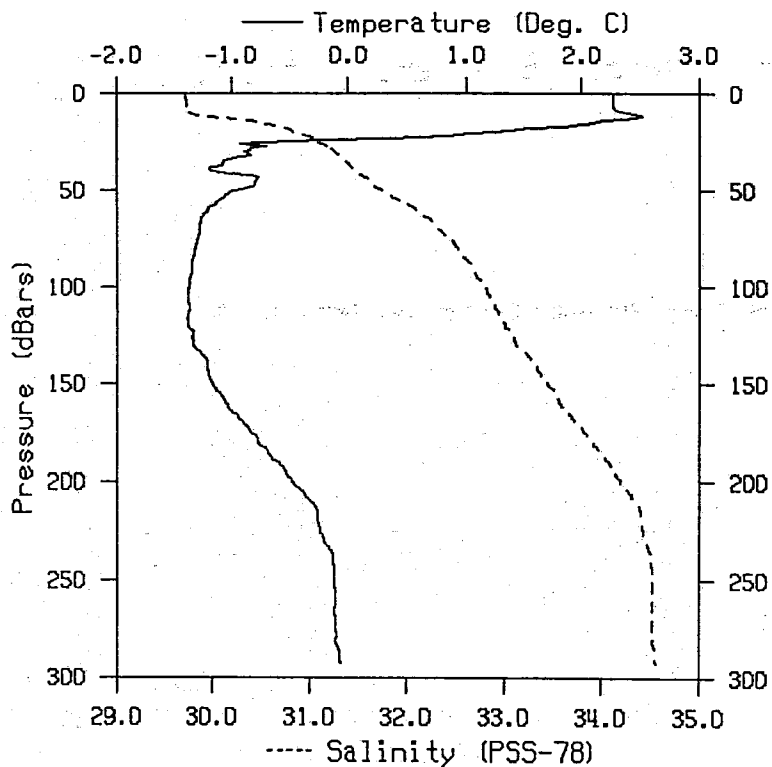
Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	2.333	2.333	29.731	5	415.7		23.756	1452.7
7	2.269	2.269	29.722	7	416.0		23.753	1452.5
10	2.316	2.316	29.753	10	414.0		23.774	1452.8
15	2.048	2.047	30.470	15	357.5		24.366	1452.6
20	.949	.949	30.972	20	312.7		24.636	1448.4
25	-.630	-.631	31.132	25	293.8		25.034	1441.4
30	-.876	-.876	31.348	30	276.4		25.216	1440.6
40	-.734	-.735	31.469	40	267.5		25.309	1441.6
50	-1.023	-1.024	31.802	50	240.9		25.588	1440.9
75	-1.287	-1.288	32.447	74	190.3		26.119	1440.9
100	-1.365	-1.367	32.806	99	162.2		26.412	1441.4
150	-1.171	-1.175	33.408	149	116.3		26.895	1444.0
200	-.478	-.484	34.189	198	59.3		27.500	1449.1
250	-.113	-.123	34.514	248	36.3		27.745	1452.0
295	-.107	-.118	34.517	292	36.1		27.748	1452.8



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BBO4  
 REFERENCE NO.: 95-26-096  
 DATE/TIME : 02/09/95 14:25 UTC  
 POSITION : 71-49.7N 126-35.2W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.276	2.275	29.734	5	415.1			23.763	1452.5
7	2.282	2.282	29.727	7	415.8			23.756	1452.5
10	2.387	2.386	29.763	10	413.7			23.778	1453.1
15	2.097	2.096	30.469	15	358.0			24.362	1452.8
20	1.230	1.229	30.862	20	322.7			24.732	1449.6
25	-.739	-.740	31.080	25	297.5			24.995	1440.8
30	-.882	-.883	31.266	30	282.7			25.150	1440.5
40	-1.166	-1.166	31.467	40	266.4			25.320	1439.6
50	-.966	-.967	31.760	50	244.3			25.552	1441.1
75	-1.284	-1.285	32.445	74	190.5			26.117	1440.9
100	-1.364	-1.366	32.801	99	162.6			26.408	1441.4
150	-1.157	-1.160	33.452	149	113.1			26.929	1444.1
200	-.474	-.480	34.208	198	57.9			27.515	1449.1
250	-.116	-.125	34.524	248	35.5			27.754	1452.0
293	-.063	-.074	34.561	290	33.0			27.781	1453.0

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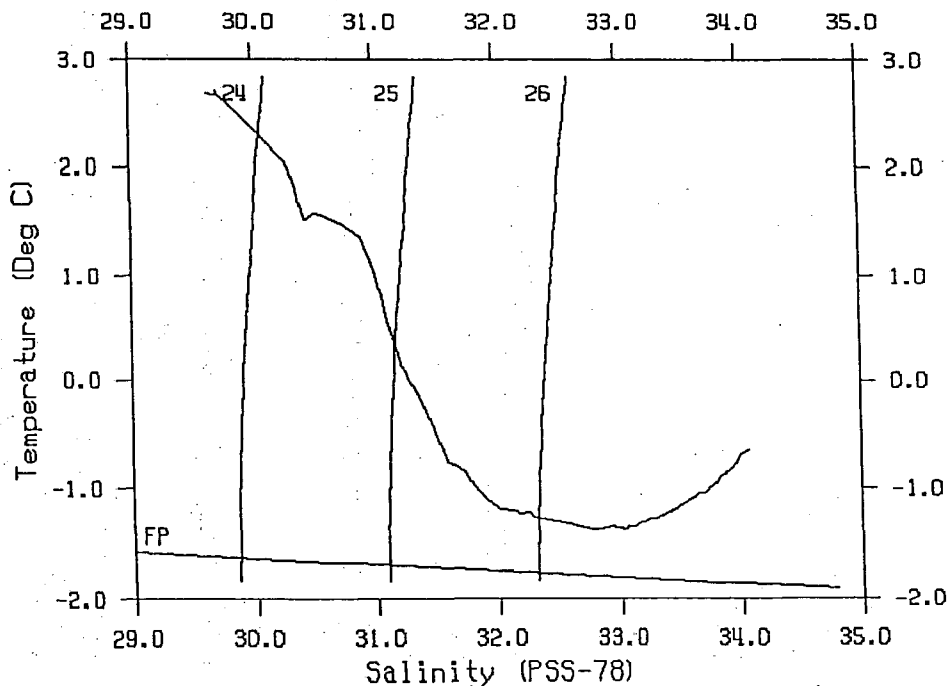
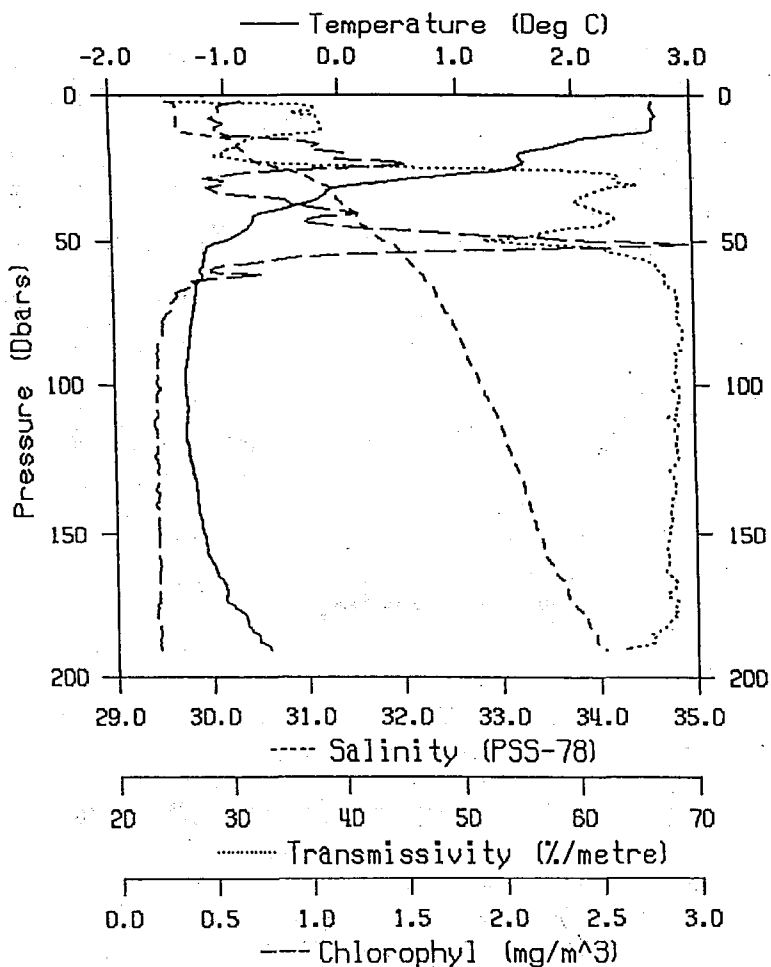




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB05  
 REFERENCE NO.: 95-26-097  
 DATE/TIME : 02/09/91 16:00 UTC  
 POSITION : 71-52.7N 126-22.7W

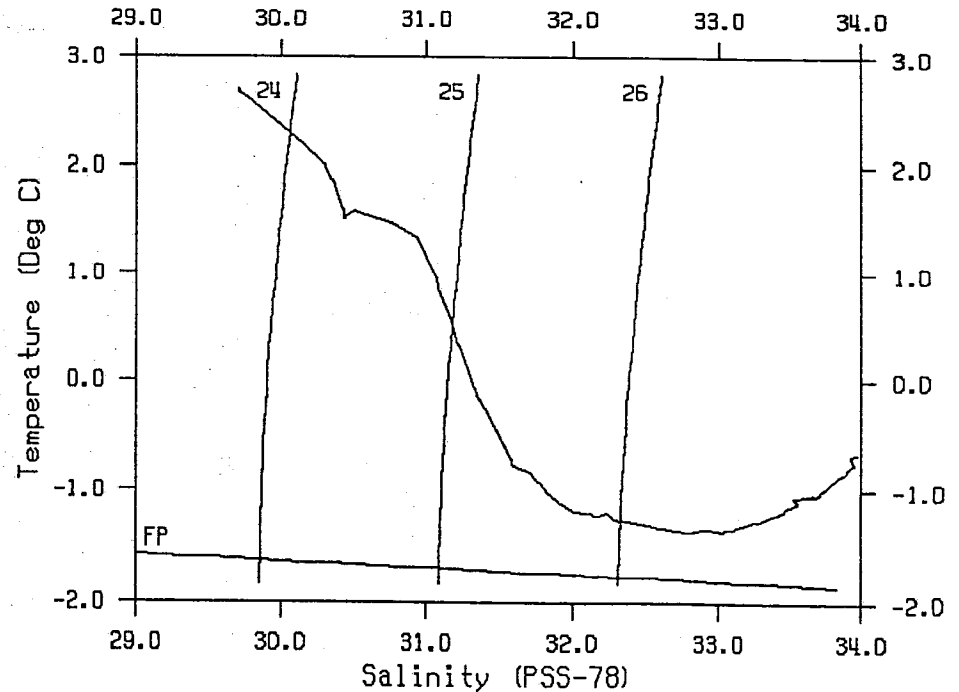
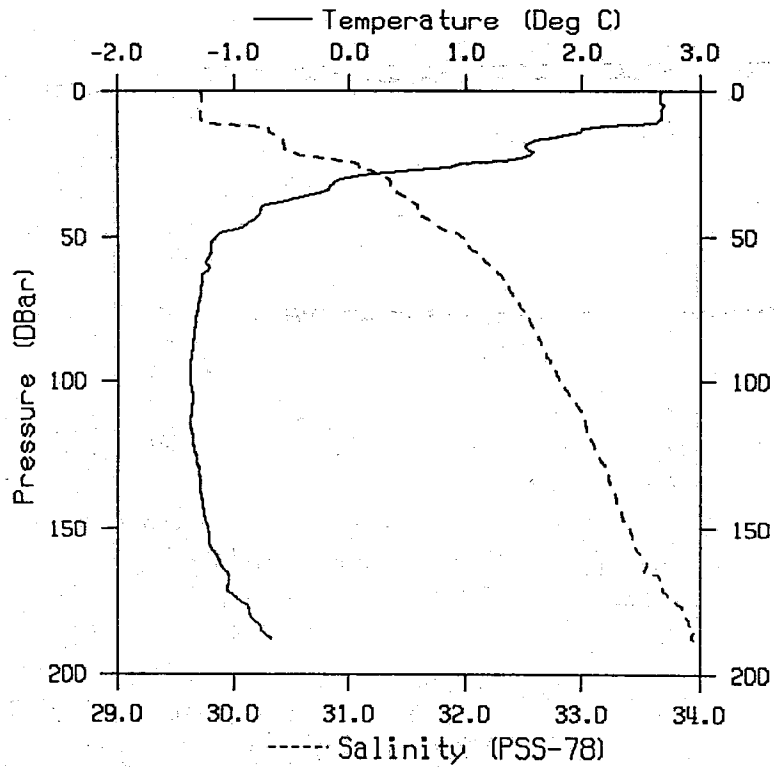
Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	2.668	2.667	29.715	5	419.2	37.8	.58	23.719	1454.2
7	2.706	2.705	29.714	7	419.6	38.1	.57	23.716	1454.4
10	2.673	2.672	29.720	10	418.9	38.4	.60	23.723	1454.3
15	2.049	2.048	30.280	15	372.0	32.3	.91	24.214	1452.4
20	1.557	1.556	30.420	20	358.3	30.0	1.22	24.358	1450.4
25	1.490	1.488	30.735	25	333.9	45.3	1.30	24.615	1450.6
30	.372	.371	31.157	30	295.7	63.7	.61	25.014	1446.2
40	-.600	-.601	31.526	40	263.5	62.0	1.19	25.351	1442.3
50	-1.033	-1.034	31.850	50	237.2	52.2	2.50	25.627	1440.9
75	-1.302	-1.303	32.470	74	188.5	68.9	.29	26.138	1440.9
100	-1.372	-1.375	32.813	99	161.7	68.7	.23	26.418	1441.4
150	-1.226	-1.230	33.396	149	117.1	67.7	.23	26.887	1443.7
191	-.654	-.659	34.066	189	67.9	64.3	.23	27.409	1448.0

106



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB05  
 REFERENCE NO.: 95-06-098  
 DATE/TIME : 02/09/95 16:04 UTC  
 POSITION : 71-52.7N 126-22.7W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	2.700	2.699	29.715	5	419.5			23.717	1454.3
7	2.674	2.673	29.719	7	419.0			23.722	1454.2
10	2.667	2.667	29.726	10	418.4			23.728	1454.3
15	1.862	1.861	30.360	15	364.8			24.291	1451.6
20	1.541	1.541	30.450	20	355.9			24.383	1450.4
25	.961	.960	31.070	25	305.3			24.914	1448.7
30	-.077	-.078	31.336	30	280.1			25.178	1444.4
40	-.757	-.757	31.589	40	258.1			25.407	1441.7
50	-1.152	-1.153	31.967	50	227.8			25.725	1440.5
75	-1.304	-1.306	32.486	74	187.2			26.151	1440.9
100	-1.369	-1.371	32.829	99	160.5			26.431	1441.4
150	-1.216	-1.220	33.404	149	116.5			26.693	1443.7
189	-.674	-.679	33.980	187	74.4			27.339	1447.7

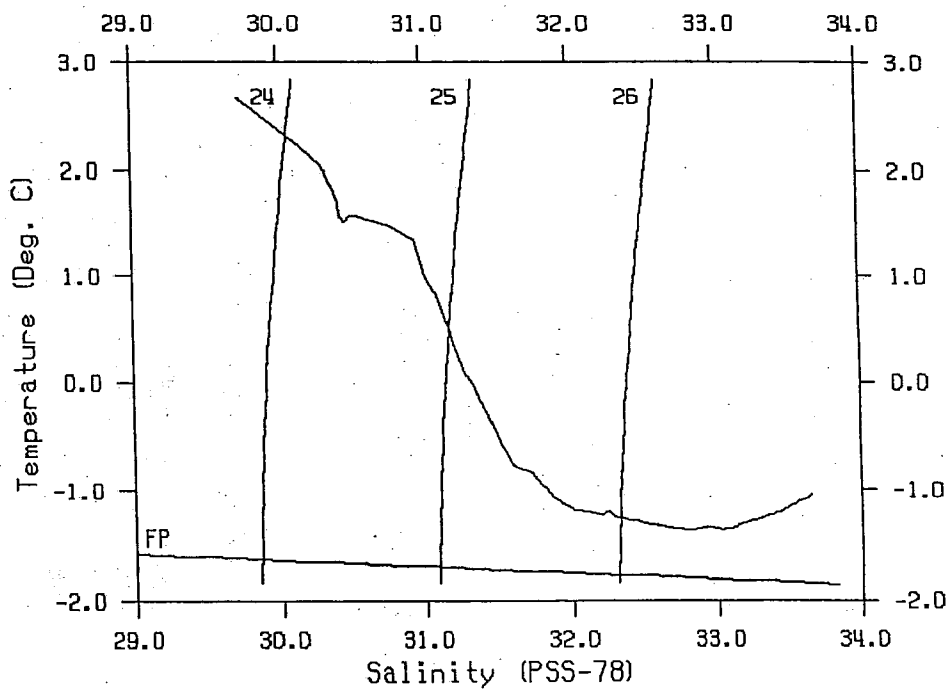
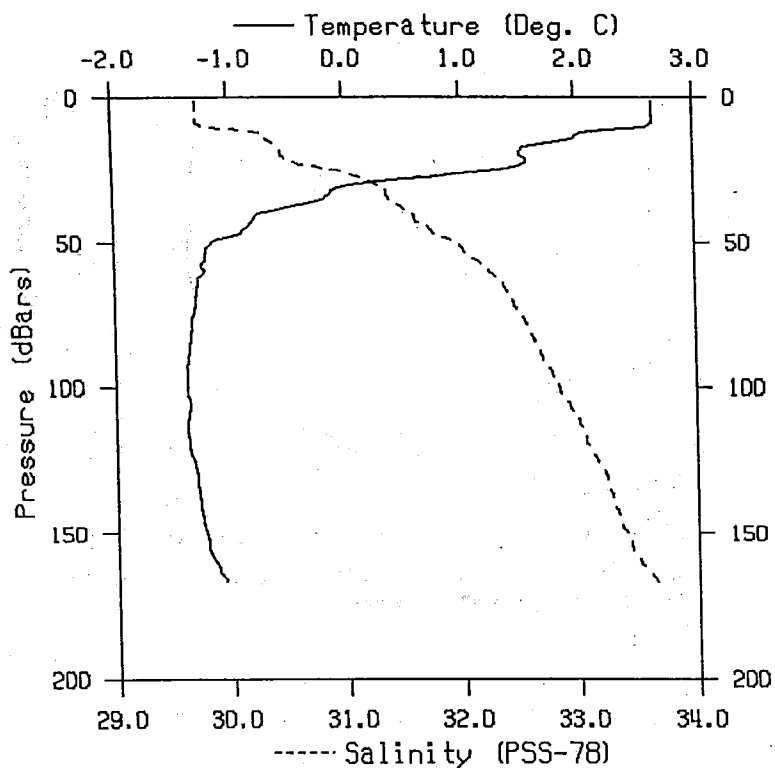


107

Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB05  
 REFERENCE NO.: 95-26-099  
 DATE/TIME : 02/09/95 16:03 UTC  
 POSITION : 71-52.7N 126-22.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.661	2.661	29.742	5	417.2			23.741	1454.2
7	2.661	2.661	29.743	7	417.0			23.743	1454.2
10	2.614	2.613	29.795	10	412.8			23.787	1454.1
15	1.859	1.858	30.373	15	363.8			24.301	1451.6
20	1.520	1.519	30.470	20	354.3			24.400	1450.3
25	1.326	1.325	30.946	25	316.8			24.794	1450.2
30	.066	.065	31.287	30	284.5			25.132	1445.0
40	-.733	-.734	31.589	40	258.3			25.406	1441.8
50	-1.140	-1.141	31.961	50	228.3			25.720	1440.5
75	-1.309	-1.311	32.501	74	186.1			26.163	1440.9
100	-1.372	-1.374	32.838	99	159.8			26.438	1441.4
150	-1.219	-1.223	33.410	149	116.0			26.898	1443.7
167	-1.049	-1.054	33.662	166	97.3			27.096	1445.2

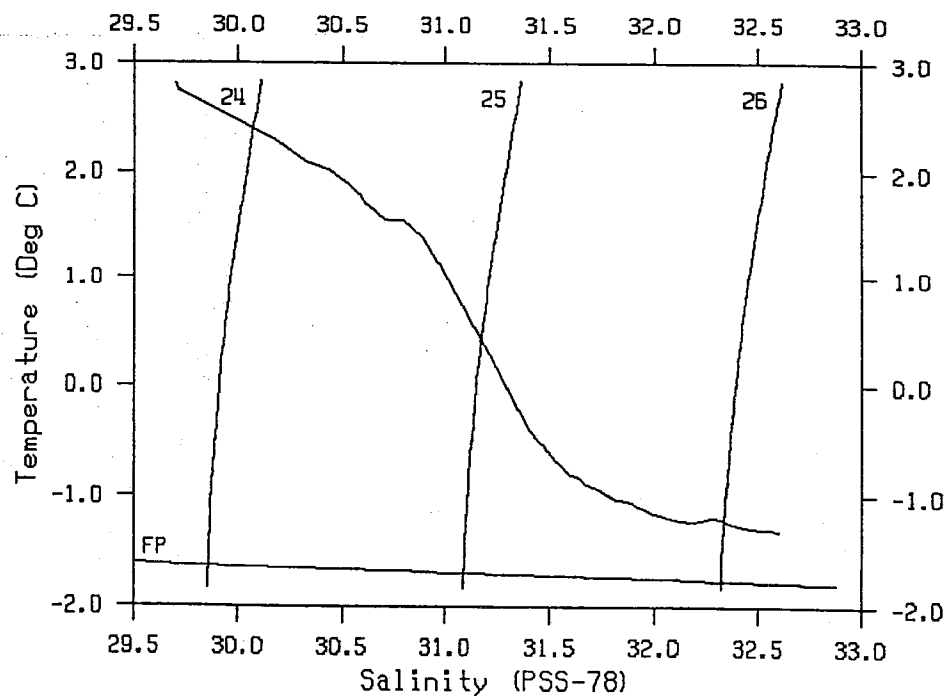
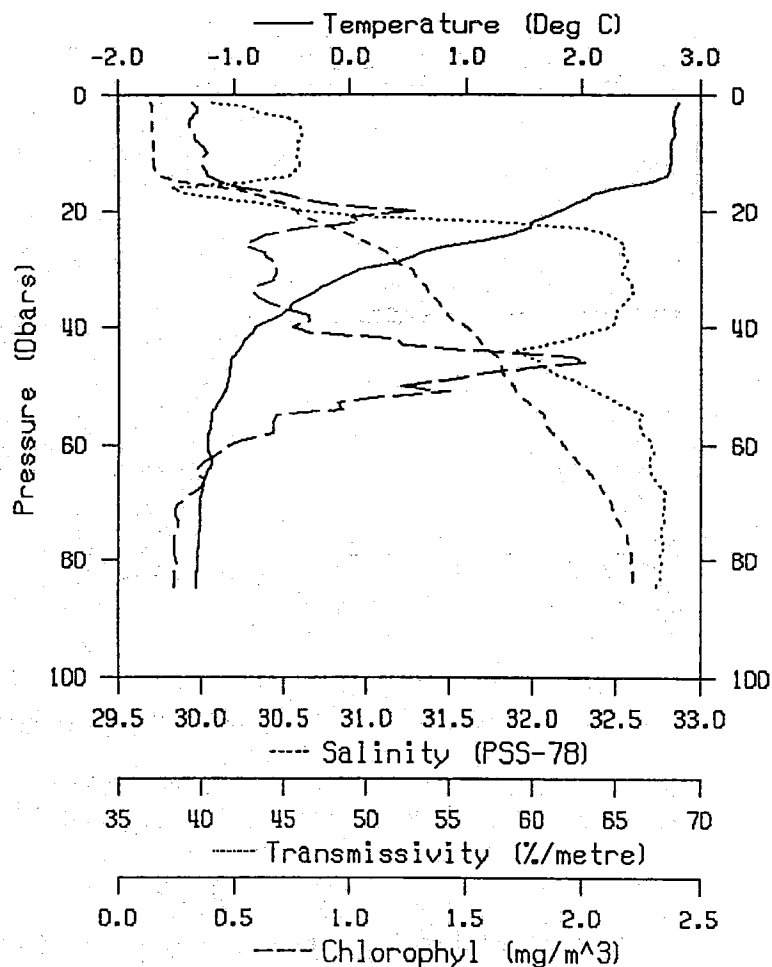
80T



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB06  
 REFERENCE NO.: 95-26-100  
 DATE/TIME : 02/09/91 18:25 UTC  
 POSITION : 71-55.0N 126-13.3W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.773	2.773	29.707	5	420.6	45.9	.31	23.706	1454.6
7	2.789	2.789	29.708	7	420.6	46.1	.33	23.705	1454.7
10	2.751	2.751	29.715	10	419.8	45.9	.39	23.713	1454.6
15	2.577	2.576	29.900	15	404.5	42.6	.44	23.874	1454.2
20	1.792	1.791	30.581	20	347.4	46.1	1.29	24.472	1451.7
25	1.142	1.141	30.965	25	314.4	65.2	.58	24.819	1449.4
30	.095	-.094	31.264	30	286.4	65.4	.68	25.112	1445.1
40	-.818	-.819	31.601	40	257.1	64.6	.75	25.419	1441.4
50	-1.063	-1.064	31.889	50	234.1	63.2	1.21	25.659	1440.8
75	-1.298	-1.299	32.557	74	181.8	67.7	.25	26.208	1441.0
85	-1.328	-1.330	32.597	84	178.6	67.4	.24	26.241	1441.1

60T



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : BB06

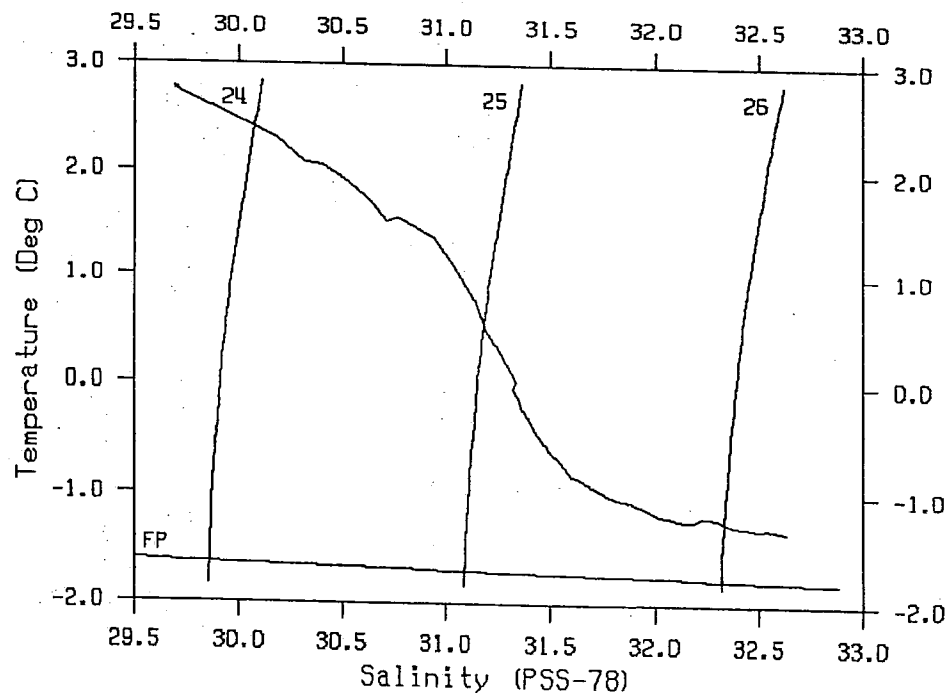
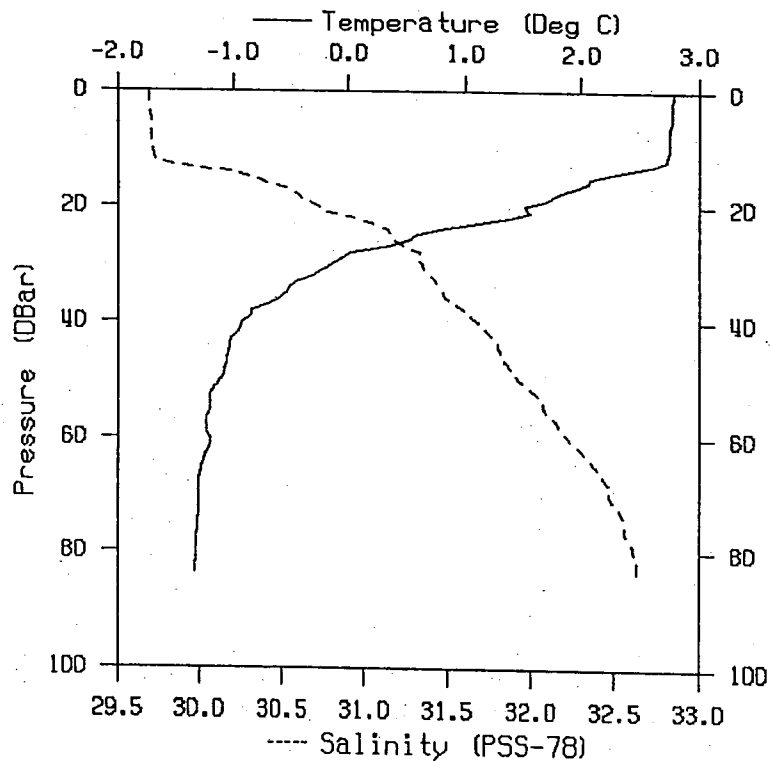
REFERENCE NO.: 95-06-101

DATE/TIME : 02/09/95 18:34 UTC

POSITION : 71-55.0N 126-13.3W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	2.773	2.772	29.708	5	420.5			23.706	1454.6
7	2.752	2.752	29.710	7	420.2			23.709	1454.6
10	2.753	2.753	29.709	10	420.3			23.708	1454.6
15	2.083	2.083	30.322	15	369.0			24.246	1452.6
20	1.524	1.523	30.718	20	335.4			24.598	1450.7
25	.601	.601	31.175	25	295.5			25.017	1447.2
30	-.131	-.132	31.350	30	278.9			25.191	1444.1
40	-.902	-.903	31.681	40	250.6			25.486	1441.1
50	-1.099	-1.100	31.926	50	231.1			25.691	1440.7
75	-1.301	-1.303	32.562	74	181.4			26.212	1441.0
84	-1.324	-1.325	32.634	83	175.7			26.271	1441.1

110



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : BB06

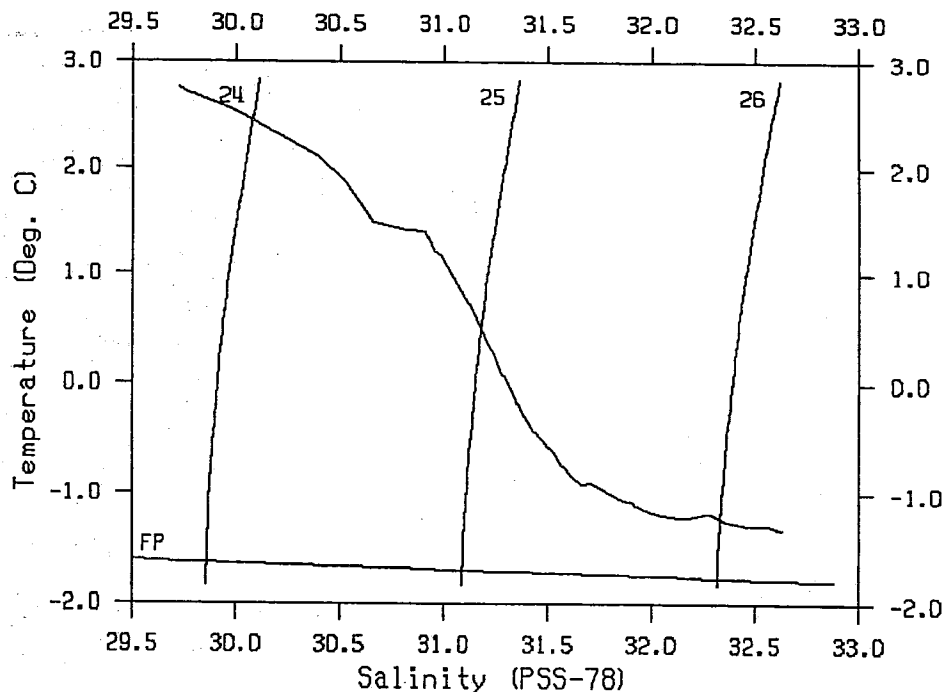
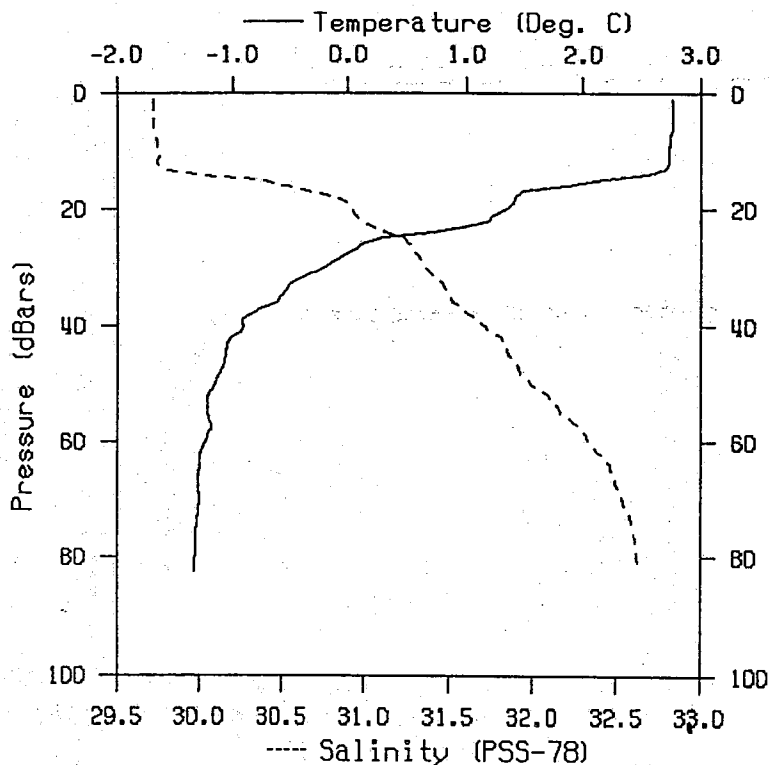
REFERENCE NO.: 95-26-102

DATE/TIME : 02/09/95 18:30 UTC

POSITION : 71-55.0N 126-13.3W

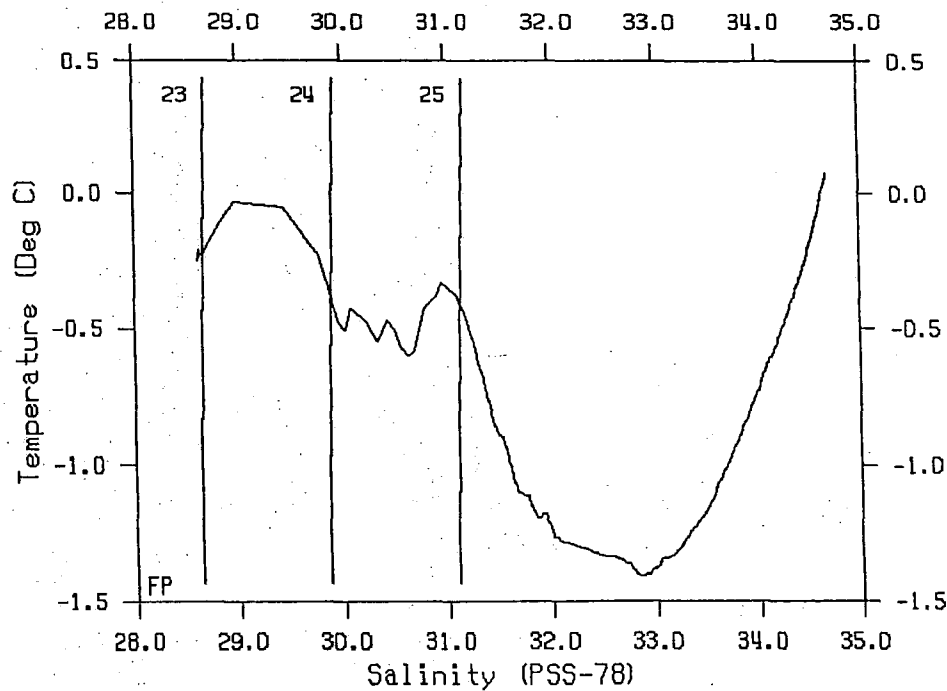
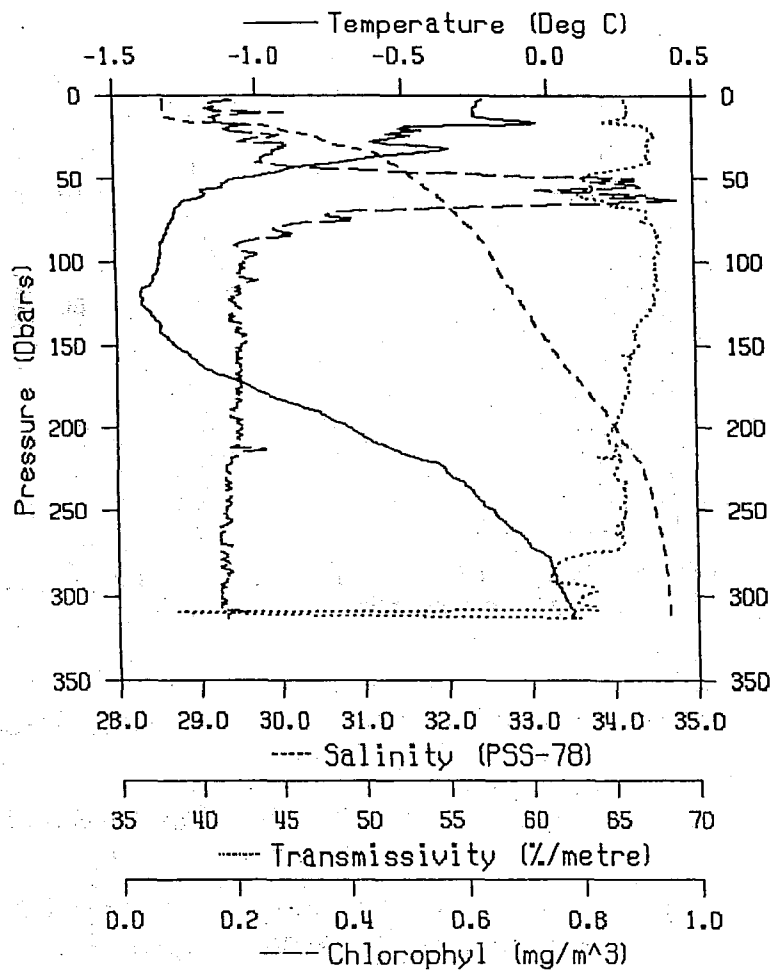
Pres	Temp	Theta	Sal	Dept	SVR	Z Tr Chlo	Sig-t	Sound
5	2.763	2.763	29.721	5	419.5		23.717	1454.6
7	2.747	2.746	29.734	7	418.4		23.729	1454.6
10	2.728	2.727	29.756	10	416.5		23.748	1454.6
15	2.140	2.139	30.371	15	365.7		24.281	1452.9
20	1.345	1.344	30.924	20	318.6		24.774	1450.2
25	.296	.296	31.230	25	289.8		25.076	1445.9
30	-.194	-.195	31.357	30	278.1		25.199	1443.8
40	-.903	-.904	31.712	40	248.3		25.511	1441.2
50	-1.151	-1.152	31.984	50	226.5		25.740	1440.5
75	-1.310	-1.311	32.595	74	178.9		26.239	1441.0
83	-1.324	-1.326	32.631	82	176.0		26.269	1441.1

TII



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB07  
 REFERENCE NO.: 95-26-103  
 DATE/TIME : 03/09/91 15:01 UTC  
 POSITION : 73- .4N 128- 5.4W

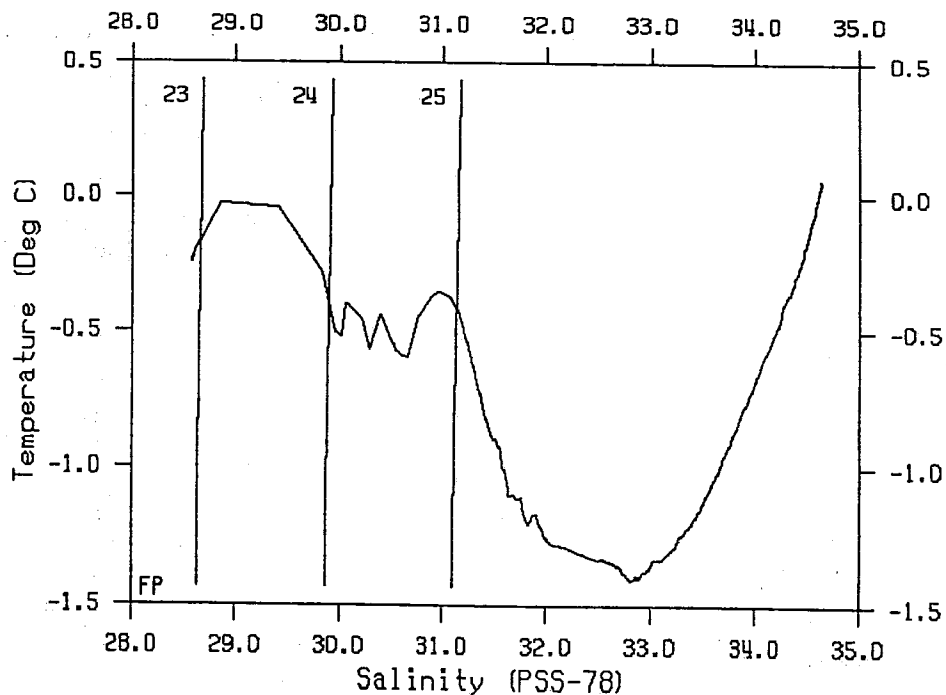
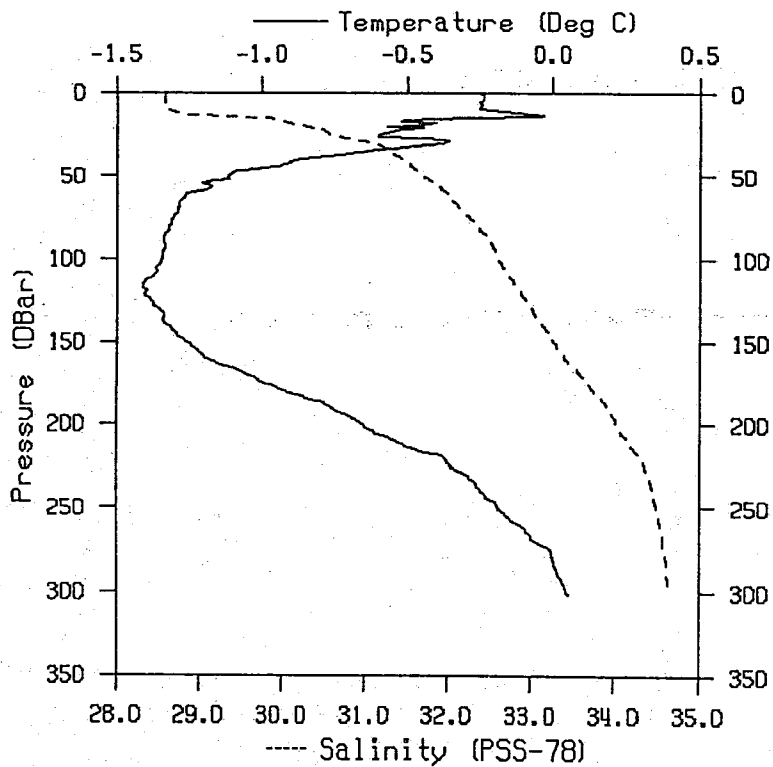
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.241	-.241	28.611	5	489.4	66.1	.17	22.984	1439.6
7	-.246	-.247	28.610	7	489.4	66.1	.18	22.984	1439.6
10	-.249	-.250	28.608	10	489.5	66.1	.30	22.983	1439.6
15	-.110	-.110	28.843	15	471.8	64.8	.18	23.168	1440.6
20	-.506	-.506	30.033	20	378.9	67.3	.19	24.141	1440.5
25	-.505	-.506	30.498	25	343.0	67.7	.28	24.517	1441.2
30	-.429	-.429	30.786	30	321.0	67.3	.31	24.747	1442.0
40	-.719	-.720	31.361	40	275.8	67.5	.25	25.222	1441.6
50	-1.070	-1.071	31.641	50	253.1	63.2	.90	25.459	1440.4
75	-1.297	-1.299	32.200	74	209.2	67.2	.42	25.919	1440.5
100	-1.347	-1.349	32.600	99	178.2	67.7	.22	26.244	1441.2
150	-1.294	-1.297	33.258	149	127.4	66.6	.22	26.777	1443.2
200	-.690	-.696	34.027	198	70.7	64.9	.21	27.378	1447.9
250	-.196	-.205	34.506	248	36.5	65.6	.19	27.743	1451.6
314	.075	.063	34.671	311	25.4	63.0	.19	27.863	1454.2



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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB07  
 REFERENCE NO.: 95-06-104  
 DATE/TIME : 03/09/95 15:00 UTC  
 POSITION : 73- .4N 128- 5.4W

Pres	Temp	Theta	Sal	Dept	SVR	Z Tr	Chlo	Sig-t	Sound
5	-.245	-.245	28.582	5	491.6			22.962	1439.5
7	-.239	-.239	28.581	7	491.7			22.960	1439.6
10	-.211	-.211	28.610	10	489.5			22.983	1439.8
15	-.290	-.290	29.833	15	395.0			23.972	1441.1
20	-.568	-.569	30.296	20	358.4			24.356	1440.5
25	-.595	-.596	30.607	25	334.4			24.608	1440.9
30	-.377	-.377	31.072	30	299.2			24.976	1442.6
40	-.862	-.863	31.452	40	268.4			25.300	1441.0
50	-1.113	-1.115	31.707	50	248.0			25.513	1440.3
75	-1.304	-1.305	32.258	74	204.8			25.965	1440.6
100	-1.342	-1.345	32.603	99	178.0			26.246	1441.2
150	-1.261	-1.265	33.270	149	126.6			26.766	1443.4
200	-.654	-.660	34.036	198	70.0			27.386	1448.1
250	-.181	-.190	34.496	248	37.3			27.735	1451.7
302	.060	.049	34.639	299	27.8			27.837	1453.8



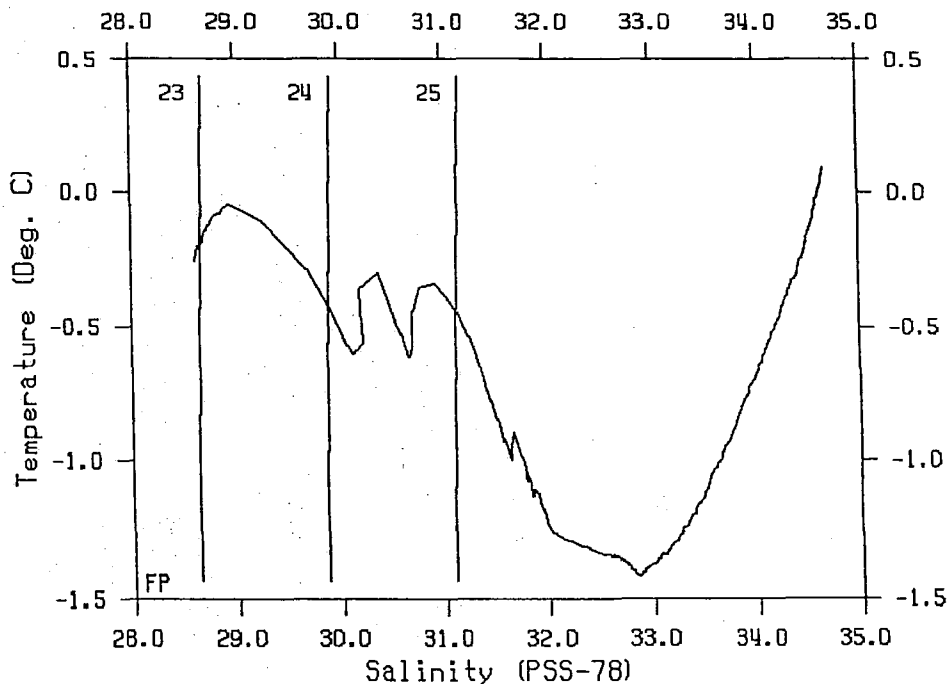
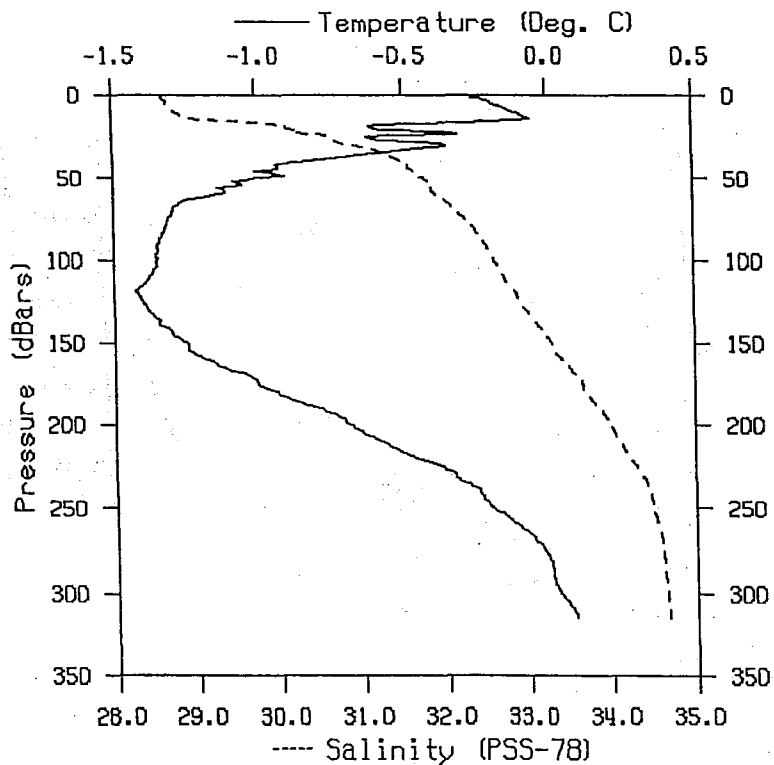
113



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB07  
 REFERENCE NO.: 95-26-105  
 DATE/TIME : 03/09/95 15:06 UTC  
 POSITION : 73- .4N 128- 5.4W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.181	-.181	28.682	5	484.0			23.041	1439.9
7	-.149	-.149	28.718	7	481.3			23.069	1440.2
10	-.102	-.102	28.778	10	476.9			23.115	1440.5
15	-.107	-.108	29.242	15	441.0			23.490	1441.2
20	-.591	-.591	30.167	20	368.3			24.252	1440.2
25	-.617	-.618	30.675	25	329.0			24.663	1440.9
30	-.345	-.345	30.916	30	311.4			24.849	1442.6
40	-.848	-.849	31.513	40	263.7			25.348	1441.2
50	-.996	-.997	31.756	50	244.5			25.550	1440.9
75	-1.304	-1.306	32.259	74	204.7			25.967	1440.6
100	-1.342	-1.344	32.604	99	177.8			26.248	1441.3
150	-1.247	-1.250	33.295	149	124.7			26.806	1443.5
200	-.686	-.692	33.999	198	72.8			27.356	1447.9
250	-.201	-.210	34.487	248	37.9			27.728	1451.6
315	.088	.076	34.668	312	25.8			27.859	1454.2

114



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : BB08

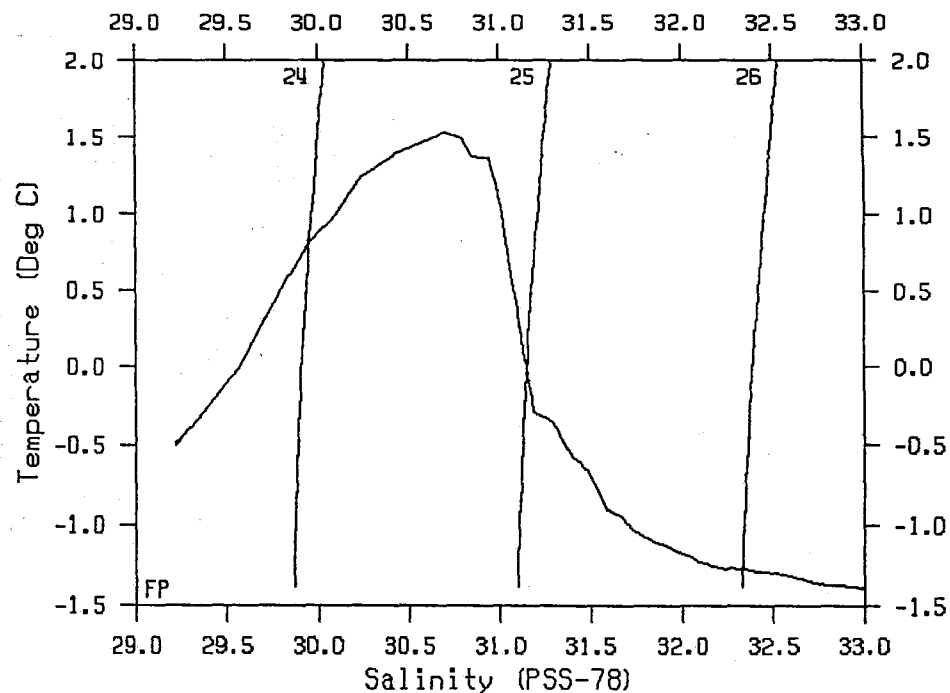
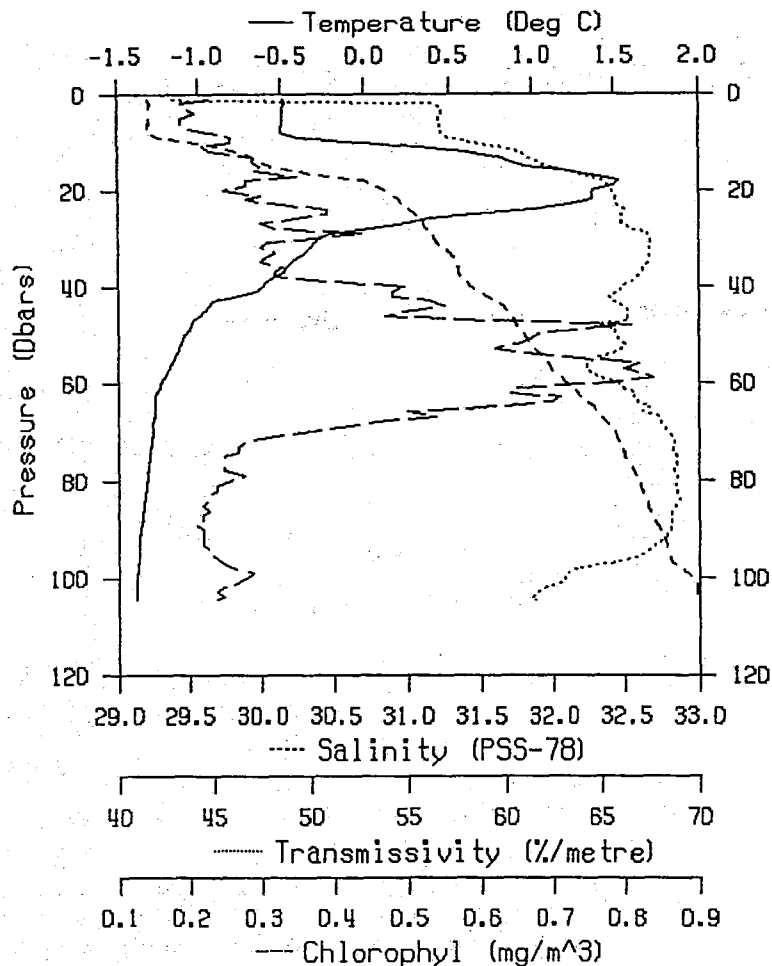
REFERENCE NO.: 95-26-106

DATE/TIME : 03/09/91 19:10 UTC

POSITION : 73- .5N 126-37.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.491	-.491	29.229	5	441.0	56.7	.19	23.491	1439.2
7	-.497	-.497	29.221	7	441.6	56.7	.20	23.485	1439.2
10	-.012	-.012	29.563	10	416.7	58.3	.26	23.746	1442.0
15	.961	.961	30.073	15	381.6	62.2	.30	24.113	1447.2
20	1.376	1.375	30.657	20	323.9	65.6	.25	24.719	1450.2
25	.654	.653	31.054	25	305.0	66.1	.39	24.917	1447.3
30	-.280	-.281	31.190	30	290.6	67.6	.38	25.068	1443.2
40	-.608	-.609	31.442	40	269.9	66.1	.50	25.284	1442.2
50	-1.080	-1.081	31.801	50	240.8	65.8	.68	25.589	1440.6
75	-1.299	-1.301	32.501	74	186.1	68.9	.25	26.163	1440.9
100	-1.386	-1.388	32.953	99	150.9	63.1	.28	26.532	1441.5
105	-1.388	-1.390	32.989	104	148.1	61.6	.24	26.562	1441.6

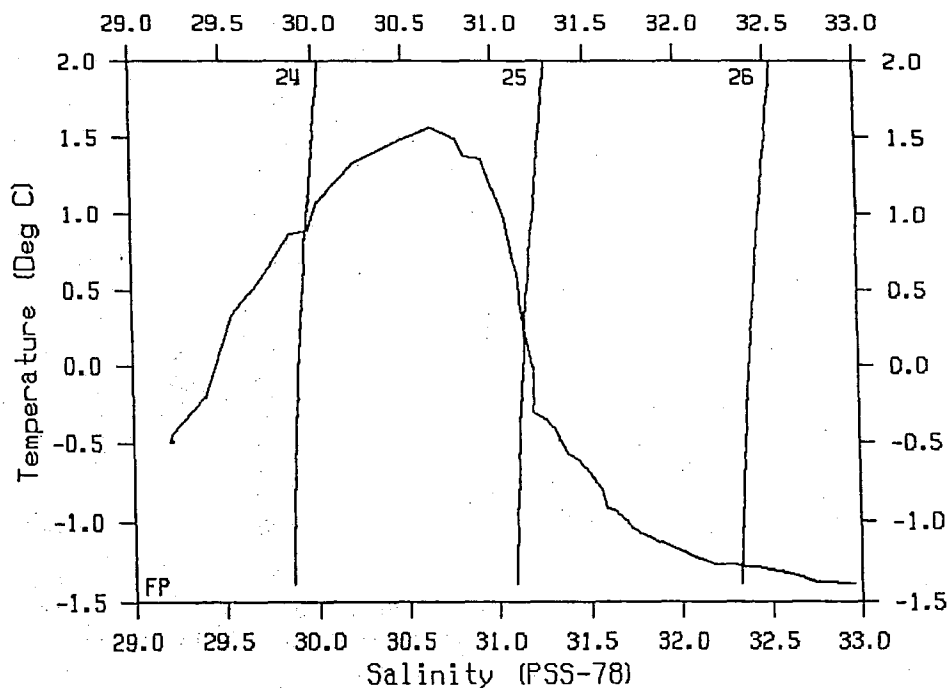
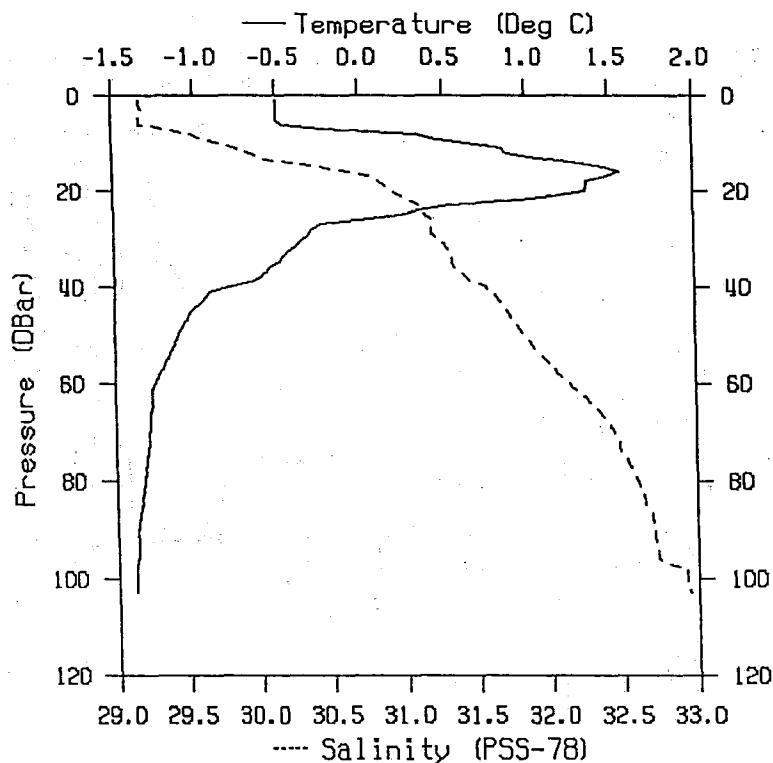
115



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB08  
 REFERENCE NO.: 95-06-107  
 DATE/TIME : 03/09/95 19:16 UTC  
 POSITION : 73- .5N 126-37.1W

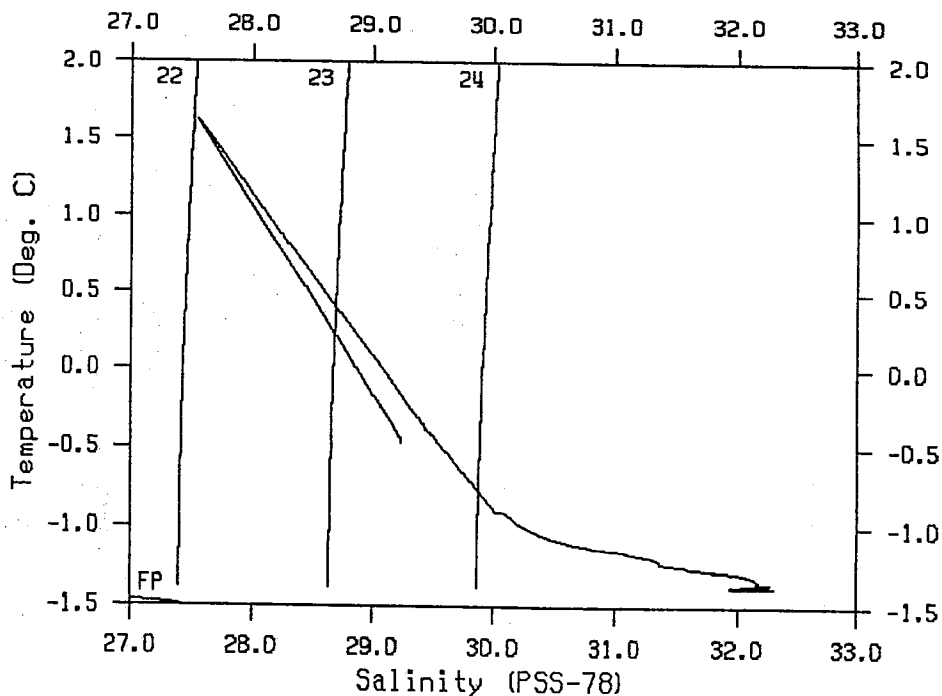
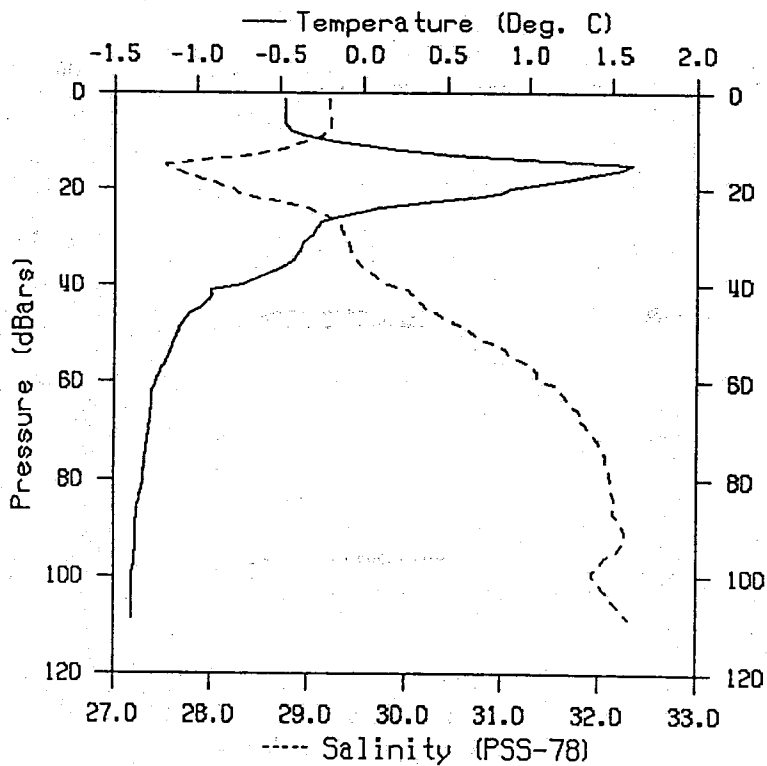
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sigt	Sound
5	-.496	-.496	29.199	5	443.3			23.467	1439.1
7	-.211	-.212	29.391	7	429.3			23.613	1440.6
10	.657	.657	29.759	10	404.3			23.875	1445.3
15	1.470	1.469	30.454	15	355.2			24.390	1450.0
20	1.359	1.358	30.934	20	318.0			24.782	1450.2
25	.240	.239	31.157	25	295.2			25.020	1445.5
30	-.333	-.334	31.247	30	286.0			25.116	1443.1
40	-.797	-.798	31.568	40	259.6			25.392	1441.5
50	-1.107	-1.108	31.839	50	237.8			25.621	1440.5
75	-1.304	-1.306	32.524	74	184.3			26.181	1440.9
100	-1.385	-1.387	32.925	99	153.1			26.509	1441.5
103	-1.384	-1.387	32.956	102	150.6			26.535	1441.6

9116



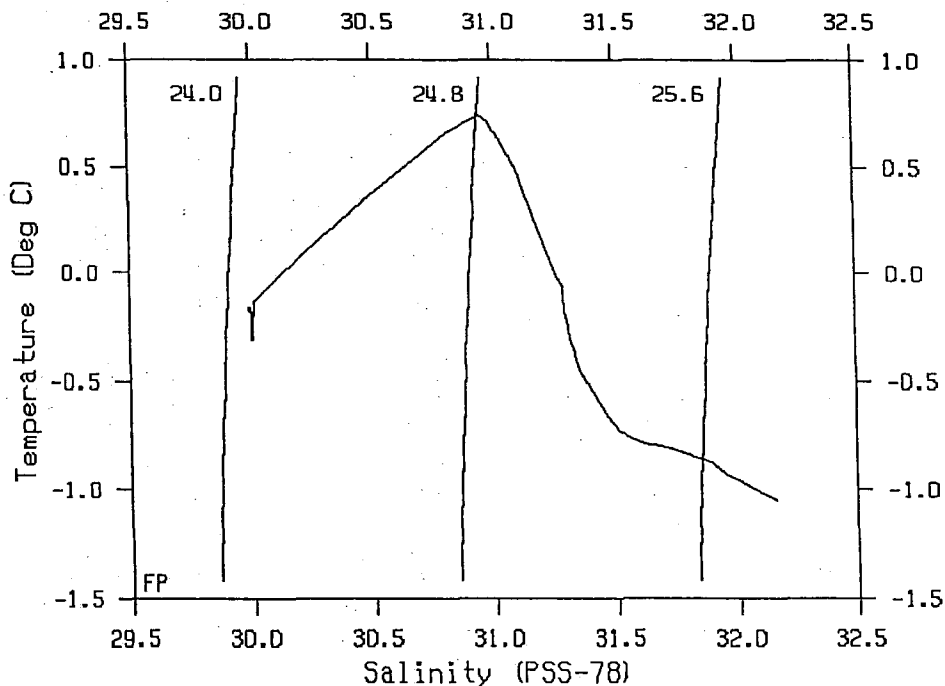
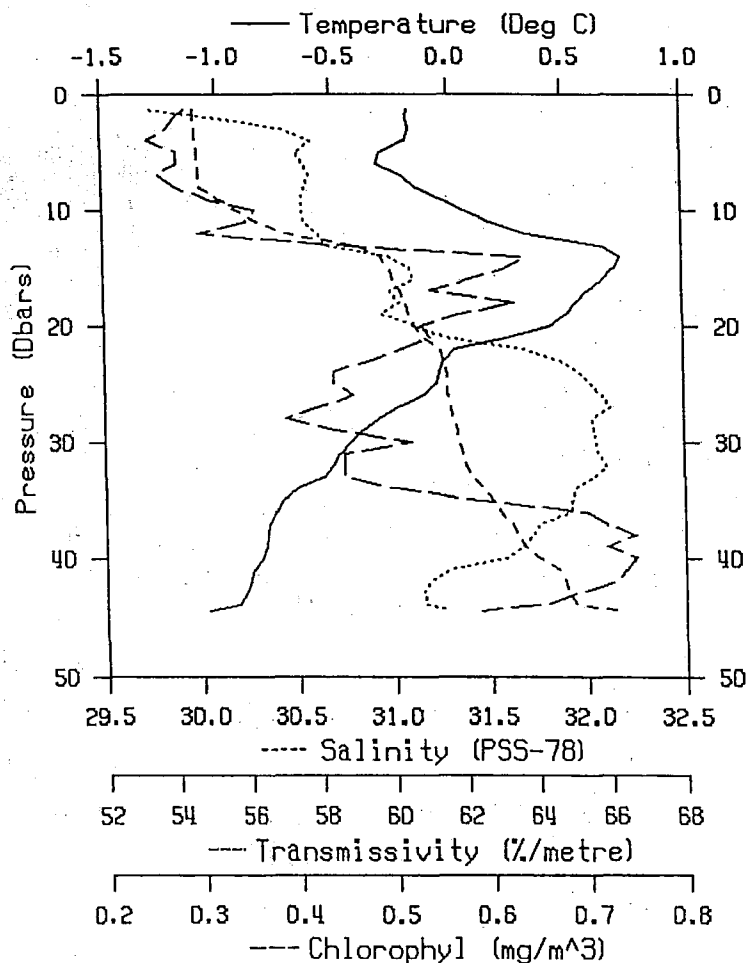
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB08  
 REFERENCE NO.: 95-26-108  
 DATE/TIME : 03/09/95 19:32 UTC  
 POSITION : 73- .5N 126-37.1W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr Chlo	Sig-t	Sound
5	-.470	-.470	29.229	5	441.1		23.490	1439.3
7	-.457	-.457	29.234	7	440.7		23.494	1439.4
10	-.169	-.169	28.999	10	459.6		23.296	1440.5
15	1.600	1.599	27.560	15	577.4		22.063	1446.8
20	.891	.891	28.228	20	522.8		22.634	1444.5
25	-.032	-.032	29.112	25	451.2		23.382	1441.5
30	-.310	-.310	29.384	30	429.3		23.611	1440.7
40	-.721	-.721	29.821	40	394.4		23.976	1439.5
50	-1.111	-1.112	30.682	50	326.9		24.683	1438.9
75	-1.300	-1.301	32.069	74	219.4		25.812	1440.3
100	-1.385	-1.386	31.945	99	228.4		25.714	1440.2
109	-1.383	-1.385	32.313	108	200.1		26.012	1440.8



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB09  
 REFERENCE NO.: 95-26-109  
 DATE/TIME : 03/09/91 21:55 UTC  
 POSITION : 72-59.5N 126-11.2W

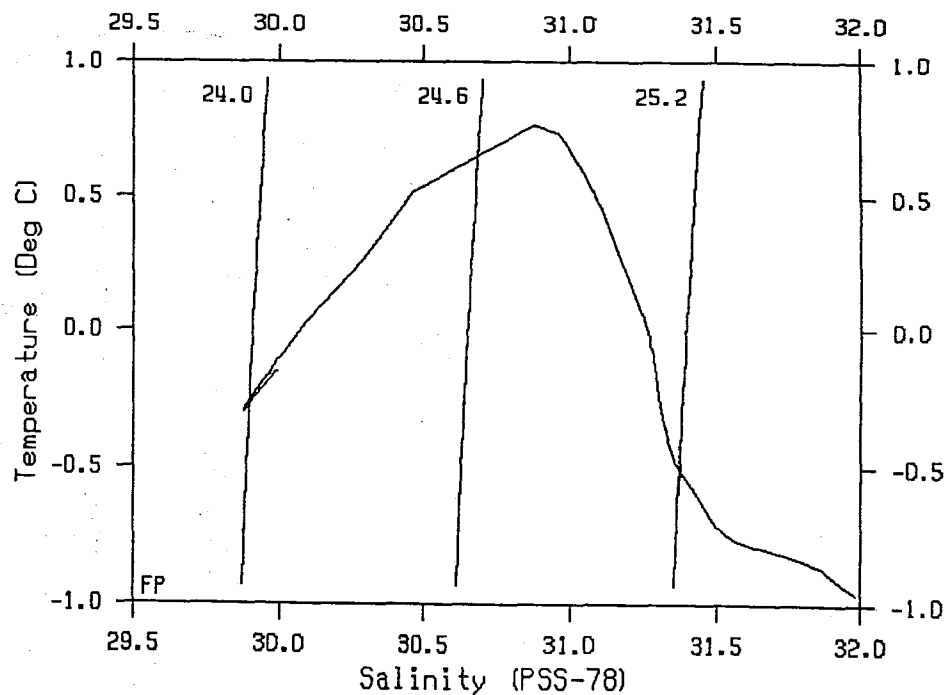
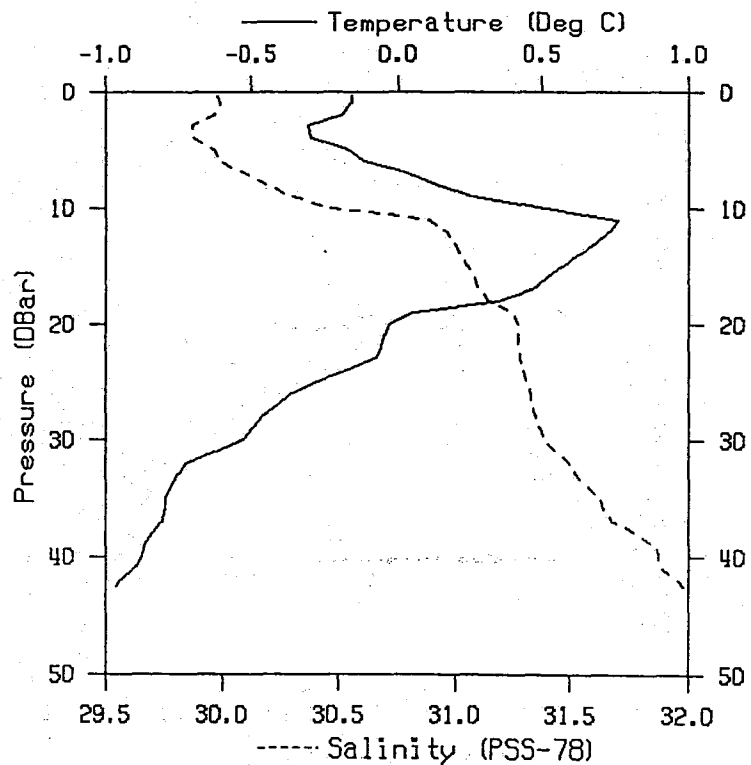
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.290	-.290	30.003	5	381.9	57.4	.28	24.110	1441.2
7	-.193	-.193	30.011	7	381.6	57.8	.26	24.113	1441.7
10	.066	.066	30.197	10	368.3	57.6	.36	24.253	1443.2
15	.713	.713	30.991	15	310.2	60.5	.62	24.863	1447.3
20	.434	.434	31.115	20	299.3	60.7	.53	24.977	1446.3
25	-.061	-.061	31.284	25	284.2	65.5	.44	25.135	1444.3
30	-.431	-.431	31.348	30	277.8	65.6	.52	25.201	1442.7
40	-.822	-.822	31.753	40	245.4	63.1	.75	25.542	1441.6
45	-1.056	-1.056	32.161	44	213.2	61.5	.59	25.880	1441.1



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB09  
 REFERENCE NO.: 95-06-110  
 DATE/TIME : 03/09/95 21:55 UTC  
 POSITION : 72-59.5N 126-11.2W

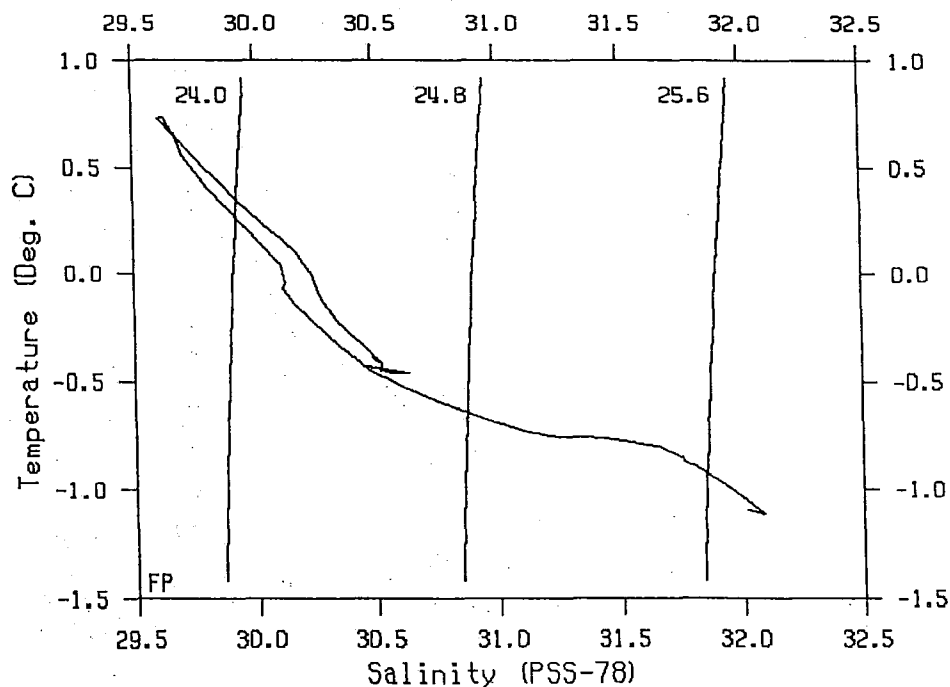
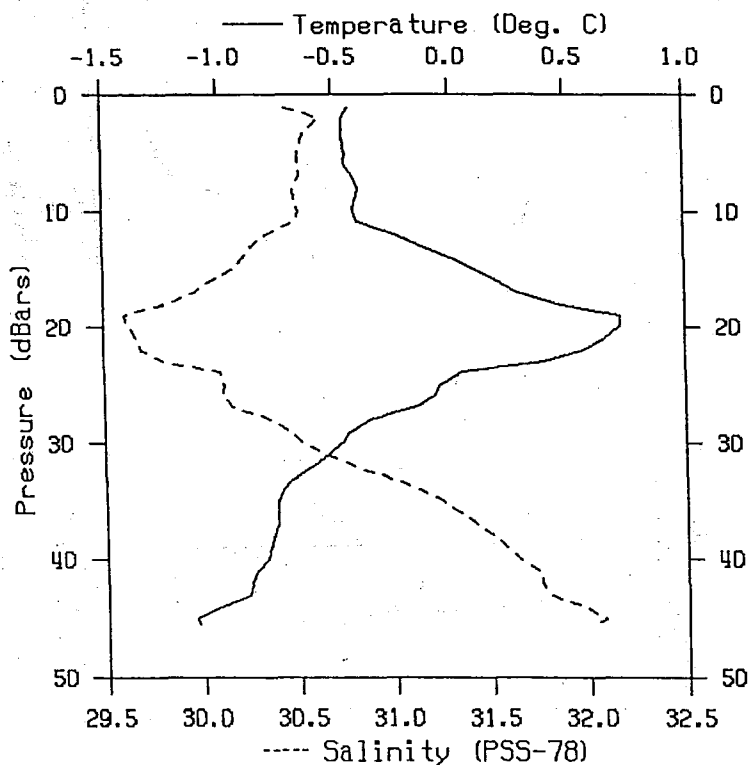
Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	-.171	-.171	29.961	5	385.6			24.072	1441.7
7	.023	.023	30.092	7	376.2			24.170	1442.8
10	.522	.522	30.480	10	348.4			24.462	1445.7
15	.576	.576	31.057	15	304.5			24.923	1446.8
20	-.028	-.029	31.273	20	285.2			25.125	1444.3
25	-.274	-.275	31.311	25	281.3			25.166	1443.3
30	-.525	-.525	31.384	30	274.8			25.234	1442.3
40	-.876	-.876	31.876	40	235.7			25.643	1441.5
43	-.961	-.962	31.984	42	227.1			25.734	1441.3

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB09  
 REFERENCE NO.: 95-26-111  
 DATE/TIME : 03/09/95 21:57 UTC  
 POSITION : 72-59.5N 126-11.2W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.449	-.449	30.525	5	341.3			24.537	1441.1
7	-.412	-.413	30.524	7	341.4			24.535	1441.3
10	-.412	-.412	30.520	10	341.8			24.531	1441.4
15	.104	.104	30.168	15	370.6			24.229	1443.4
20	.727	.727	29.631	20	414.4			23.769	1445.6
25	-.041	-.042	30.123	25	373.5			24.198	1442.8
30	-.476	-.477	30.528	30	340.8			24.540	1441.4
40	-.800	-.801	31.650	40	253.3			25.458	1441.6
46	-1.097	-1.098	32.016	46	224.2			25.764	1440.7



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

STATION : BB10

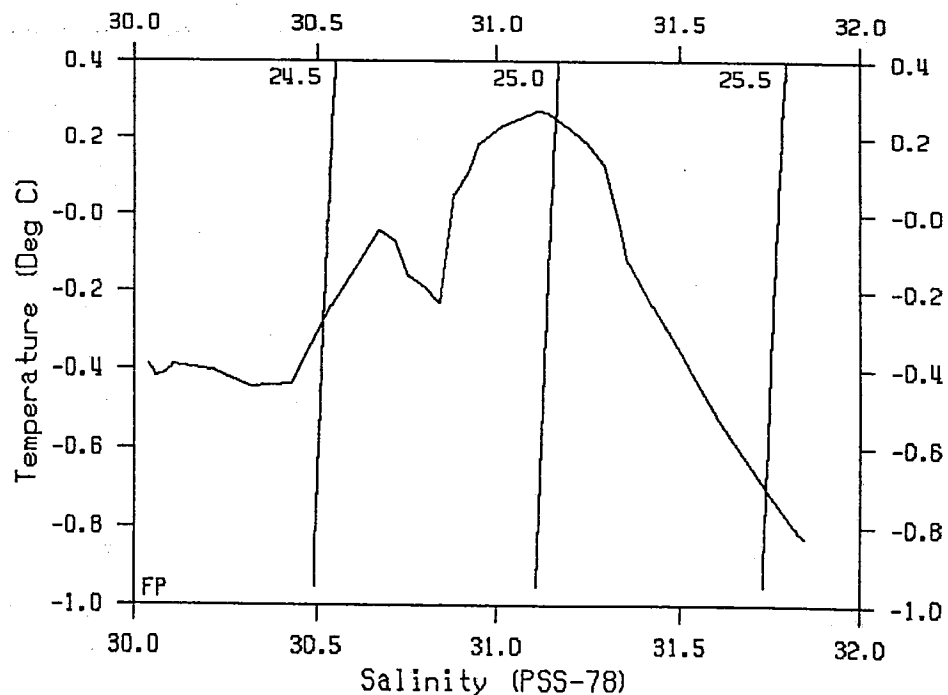
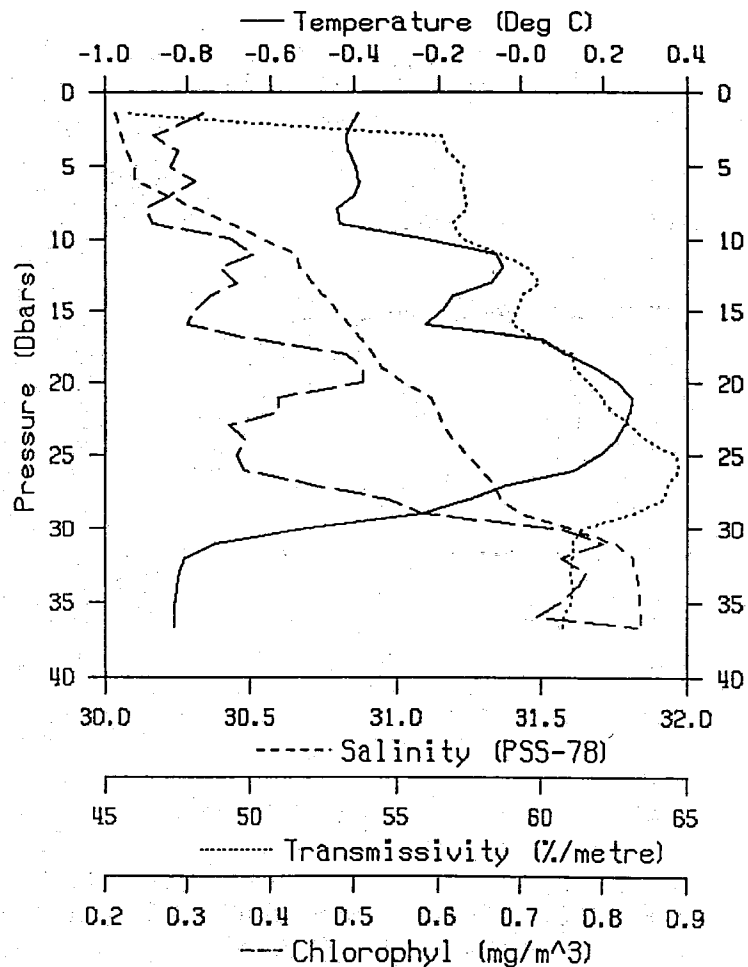
REFERENCE NO.: 95-26-112

DATE/TIME : 03/09/91 23:00 UTC

POSITION : 72-59.8N 125-49.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.399	-.399	30.103	5	373.9	57.3	.28	24.194	1440.8
7	-.403	-.403	30.215	7	365.3	57.3	.28	24.285	1441.0
10	-.237	-.237	30.543	10	340.5	57.3	.35	24.544	1442.2
15	-.189	-.190	30.797	15	321.1	59.2	.31	24.748	1442.9
20	.234	.233	31.023	20	305.5	61.6	.51	24.912	1445.2
25	.192	.191	31.243	25	288.4	64.6	.36	25.091	1445.4
30	-.520	-.521	31.600	30	258.1	61.5	.74	25.409	1442.7
37	-.828	-.829	31.841	36	238.6	60.8	.84	25.614	1441.6

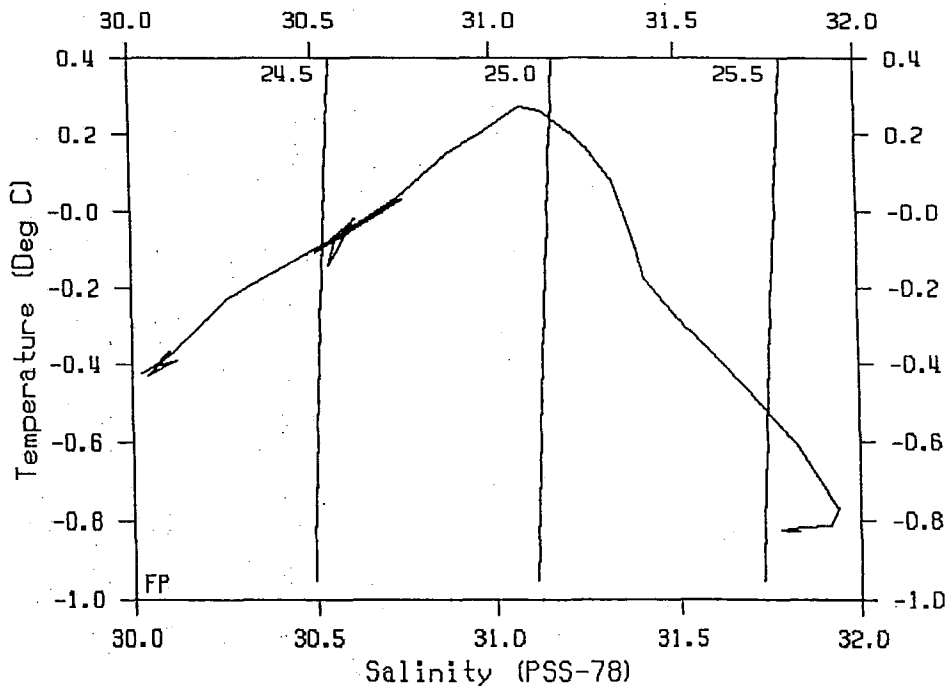
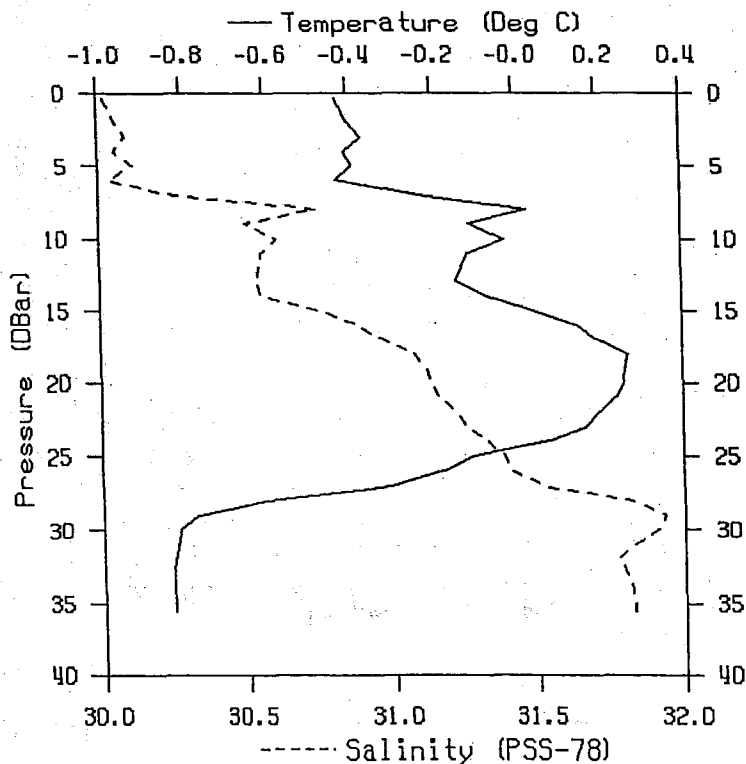
121





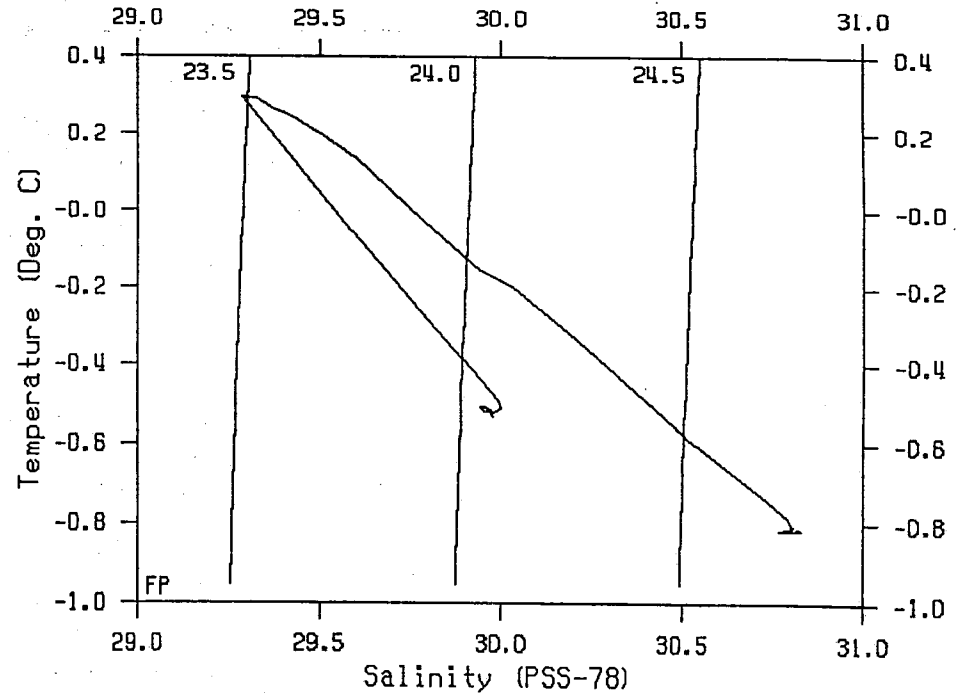
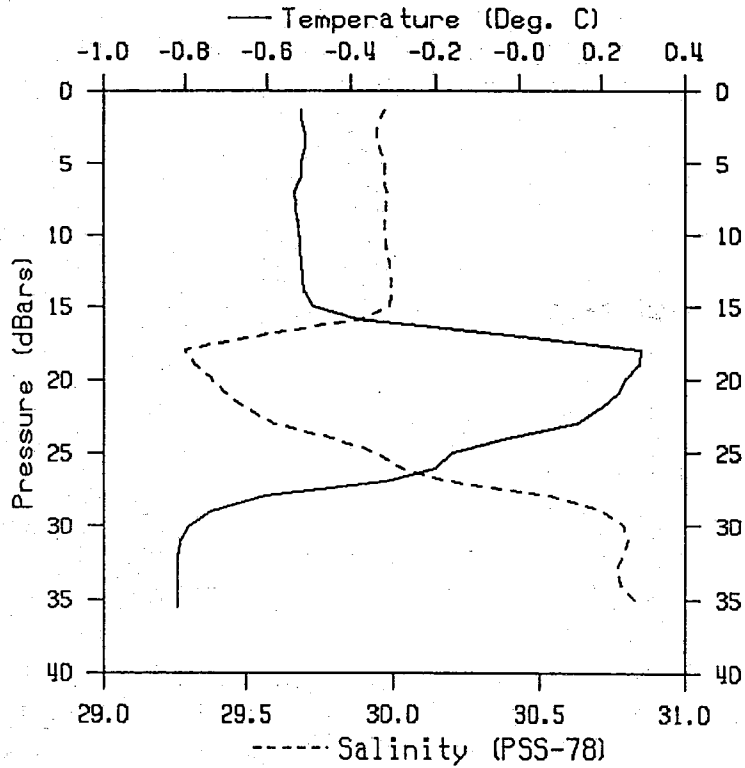
Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB10  
 REFERENCE NO.: 95-06-113  
 DATE/TIME : 03/09/95 22:59 UTC  
 POSITION : 72-59.8N 125-49.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.393	-.393	30.117	5	372.8			24.206	1440.9
7	-.233	-.233	30.255	7	362.7			24.312	1441.8
10	-.022	-.022	30.613	10	336.0			24.592	1443.3
15	.044	.044	30.746	15	326.0			24.697	1443.9
20	.262	.261	31.134	20	297.1			25.000	1445.5
25	-.097	-.098	31.389	25	276.0			25.222	1444.3
30	-.814	-.815	31.914	30	233.1			25.672	1441.7
36	-.830	-.830	31.827	35	239.6			25.603	1441.6



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB10  
 REFERENCE NO.: 95-26-114  
 DATE/TIME : 03/09/95 23:05 UTC  
 POSITION : 72-59.8N 125-49.1W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	-.518	-.518	29.973	5	383.5			24.093	1440.1
7	-.534	-.534	29.980	7	383.0			24.099	1440.0
10	-.524	-.524	29.974	10	383.4			24.094	1440.1
15	-.491	-.491	29.990	15	382.3			24.106	1440.4
20	.261	.261	29.381	20	431.6			23.588	1443.2
25	-.153	-.153	29.945	25	386.7			24.058	1442.1
30	-.787	-.788	30.792	30	319.5			24.763	1440.3
35	-.816	-.817	30.817	35	317.4			24.784	1440.3



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

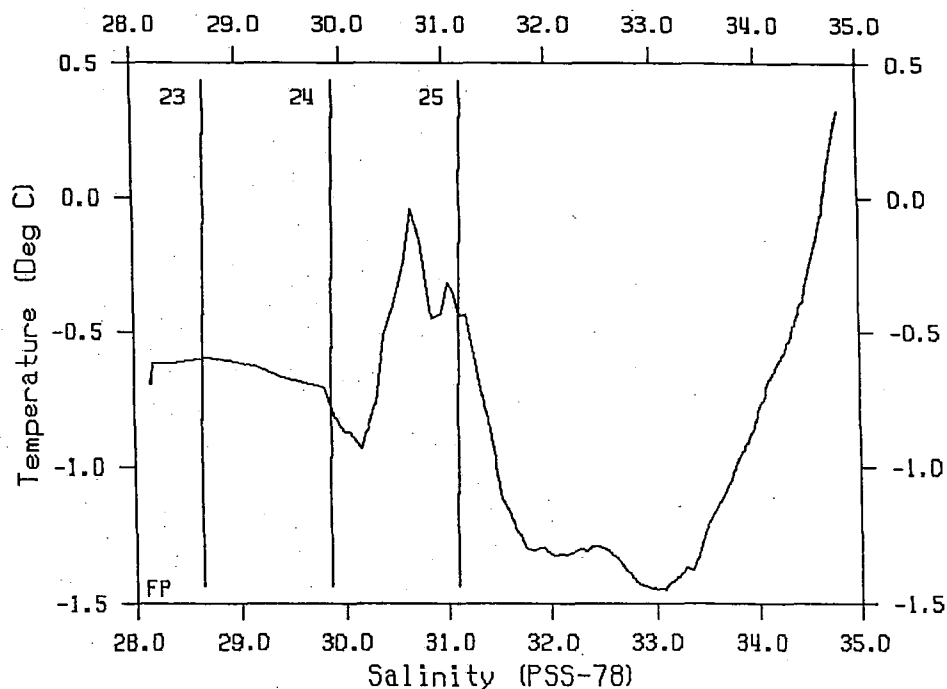
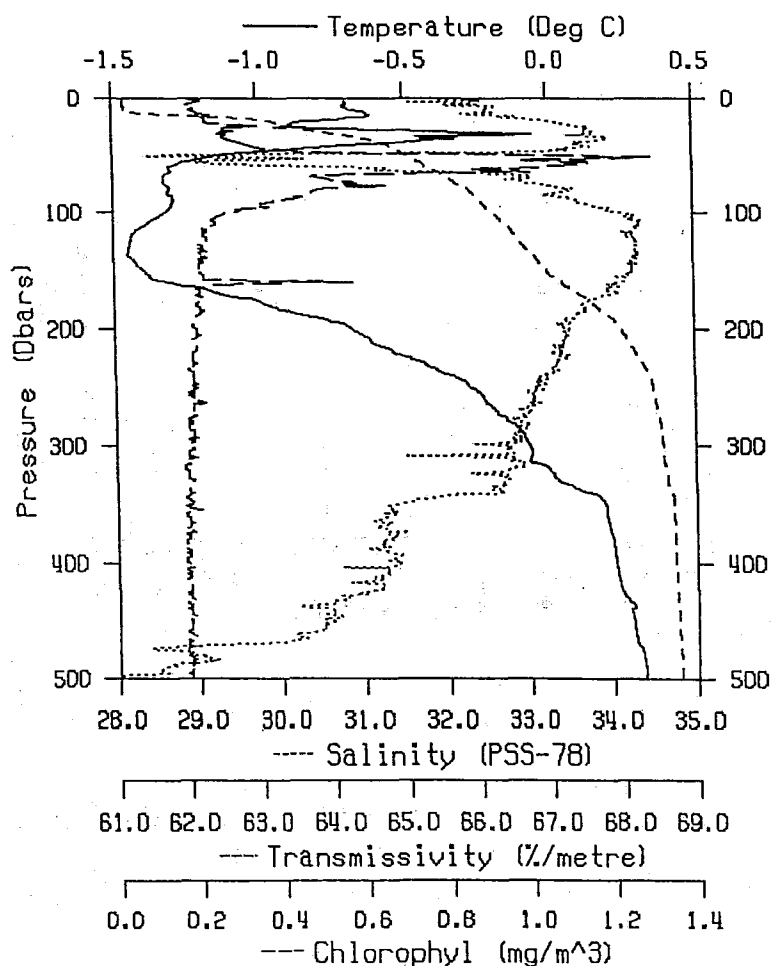
STATION : BB11

REFERENCE NO.: 95-26-115

DATE/TIME : 04/09/95 15:08 UTC

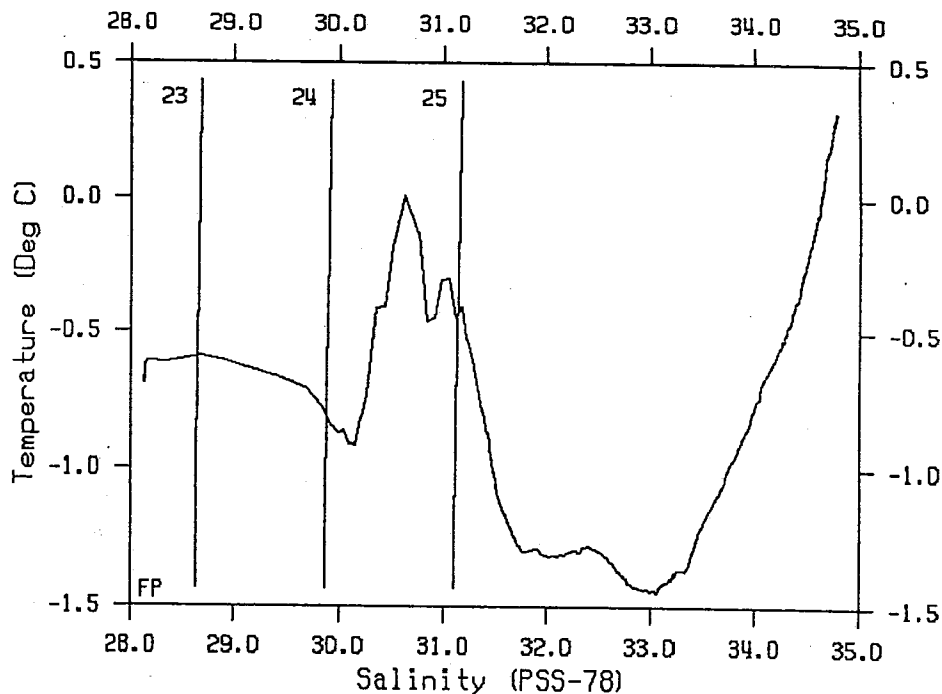
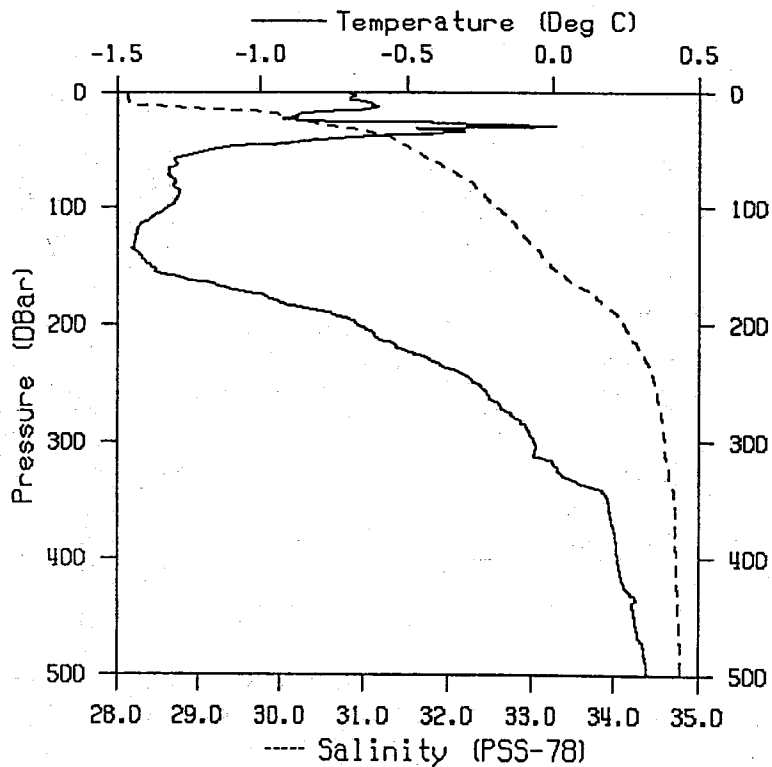
POSITION : 73- .3N 128-52.5W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.686	-.687	28.153	5	523.6	66.0	.19	22.626	1436.8
7	-.700	-.700	28.154	7	523.4	66.3	.19	22.628	1436.8
10	-.675	-.675	28.161	10	523.0	66.1	.19	22.632	1437.0
15	-.612	-.612	28.896	15	466.3	66.4	.25	23.225	1438.3
20	-.630	-.631	29.929	20	385.9	67.1	.23	24.066	1438.8
25	-.933	-.933	30.171	25	367.0	67.6	.30	24.265	1438.7
30	-.252	-.252	30.587	30	336.9	67.5	.27	24.580	1442.6
40	-.621	-.622	31.287	40	281.8	67.4	.32	25.159	1441.9
50	-1.126	-1.127	31.556	50	259.5	61.8	1.12	25.392	1440.1
75	-1.316	-1.317	32.163	74	212.0	66.9	.59	25.889	1440.4
100	-1.313	-1.315	32.564	99	181.0	68.0	.29	26.214	1441.3
150	-1.402	-1.405	33.228	149	129.4	68.2	.21	26.756	1442.6
200	-.679	-.685	34.120	198	63.6	67.3	.20	27.453	1448.1
250	-.278	-.287	34.497	248	36.8	66.8	.18	27.740	1451.2
350	.188	.174	34.733	347	21.4	64.8	.18	27.906	1455.3
498	.320	.299	34.804	493	17.0	61.0	.18	27.956	1458.5



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB11  
 REFERENCE NO.: 95-06-116  
 DATE/TIME : 04/09/95 15:08 UTC  
 POSITION : 73- .3N 128-52.5W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.695	-.695	28.133	5	525.1			22.610	1436.8
7	-.678	-.678	28.141	7	524.5			22.616	1436.9
10	-.615	-.615	28.170	10	522.4			22.638	1437.3
15	-.669	-.669	29.392	15	427.8			23.626	1436.7
20	-.877	-.877	29.997	20	380.6			24.122	1438.7
25	-.738	-.739	30.262	25	360.5			24.333	1439.7
30	-.124	-.125	30.751	30	324.9			24.707	1443.4
40	-.734	-.735	31.339	40	277.4			25.205	1441.5
50	-1.169	-1.170	31.600	50	256.0			25.428	1439.9
75	-1.303	-1.304	32.200	74	209.3			25.919	1440.5
100	-1.318	-1.320	32.576	99	180.1			26.224	1441.3
150	-1.382	-1.385	33.224	149	129.8			26.752	1442.7
200	-.665	-.671	34.116	198	64.0			27.449	1448.1
250	-.262	-.270	34.483	248	37.9			27.728	1451.3
350	.193	.179	34.719	347	22.5			27.895	1455.4
498	.324	.303	34.788	492	18.2			27.943	1458.5



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

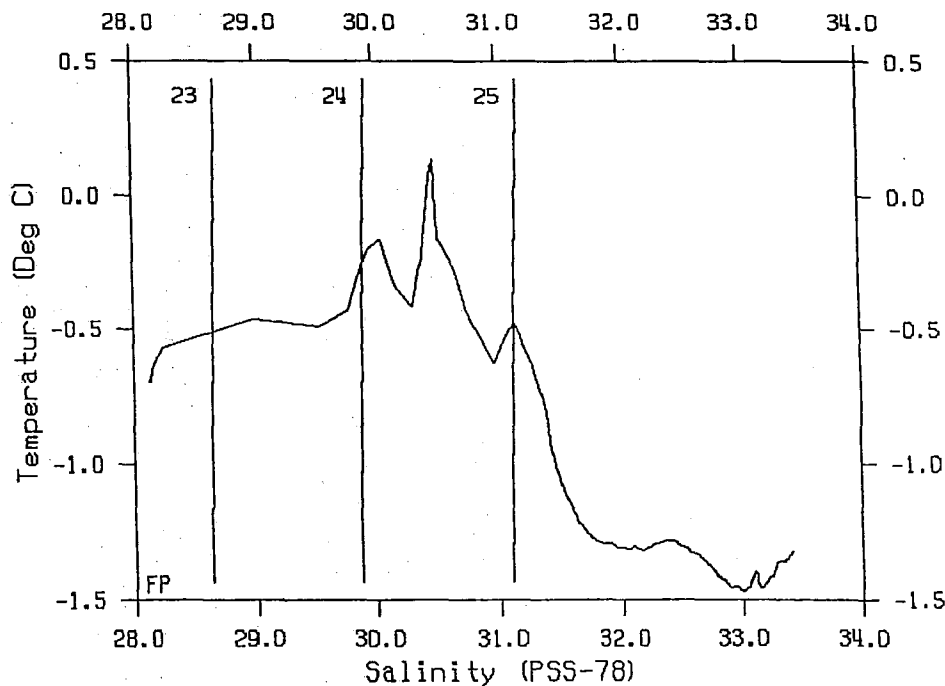
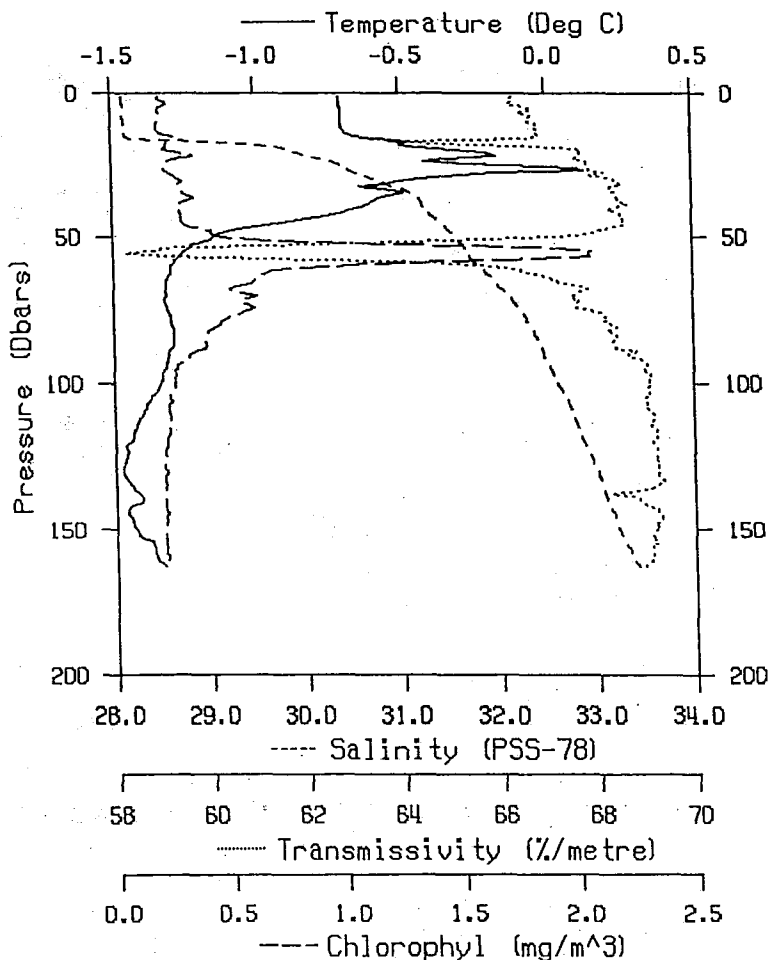
STATION : BB11

REFERENCE NO.: 95-26-117

DATE/TIME : 04/09/95 16:40 UTC

POSITION : 72-59.0N 128-51.0W

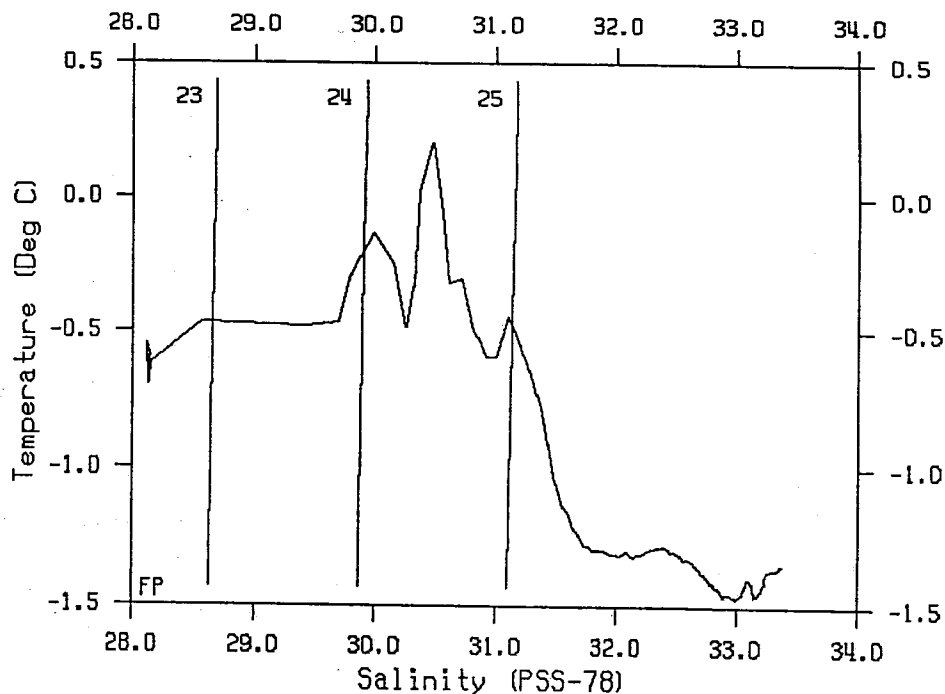
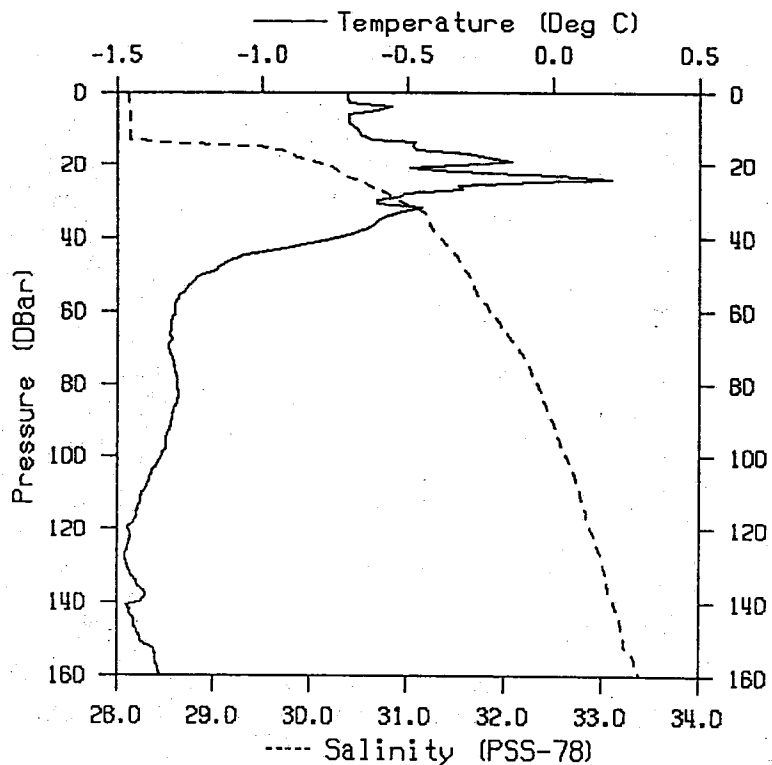
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-.700	-.700	28.134	5	525.1	66.7	.22	22.611	1436.7
7	-.699	-.699	28.132	7	525.2	66.5	.22	22.610	1436.8
10	-.698	-.698	28.137	10	524.8	66.7	.21	22.614	1436.8
15	-.650	-.650	28.155	15	523.4	66.9	.28	22.628	1437.2
20	-.305	-.306	29.658	20	393.0	67.6	.23	23.993	1441.2
25	-.262	-.263	30.378	25	353.1	67.9	.24	24.412	1442.1
30	-.425	-.425	30.732	30	325.2	68.4	.29	24.704	1441.9
40	-.630	-.631	31.259	40	283.9	68.5	.29	25.136	1441.8
50	-1.141	-1.142	31.564	50	258.9	67.4	.46	25.399	1440.0
75	-1.307	-1.309	32.238	74	206.4	67.9	.59	25.949	1440.5
100	-1.332	-1.334	32.606	99	177.8	69.1	.27	26.249	1441.3
150	-1.430	-1.433	33.218	149	130.1	69.2	.22	26.748	1442.5
163	-1.327	-1.331	33.417	161	115.1	69.0	.23	26.907	1443.4



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB11  
 REFERENCE NO.: 95-06-118  
 DATE/TIME : 04/09/95 16:36 UTC  
 POSITION : 72-59.0N 128-51.0W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr Chlo	Sig-t	Sound
5	-.601	-.601	28.145	5	524.4		22.618	1437.2
7	-.697	-.697	28.137	7	524.8		22.614	1436.8
10	-.673	-.673	28.141	10	524.5		22.617	1437.0
15	-.481	-.481	29.444	15	424.4		23.664	1439.7
20	-.246	-.247	30.143	20	371.2		24.221	1441.6
25	-.060	-.061	30.554	25	340.3		24.546	1443.3
30	-.600	-.600	30.912	30	310.8		24.855	1441.4
40	-.732	-.733	31.334	40	277.8		25.201	1441.5
50	-1.202	-1.203	31.631	50	253.5		25.455	1439.6
75	-1.298	-1.299	32.265	74	204.2		25.972	1440.6
100	-1.341	-1.343	32.642	99	174.9		26.278	1441.3
150	-1.416	-1.419	33.234	149	128.9		26.760	1442.6
160	-1.350	-1.354	33.379	159	117.9		26.877	1443.2

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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

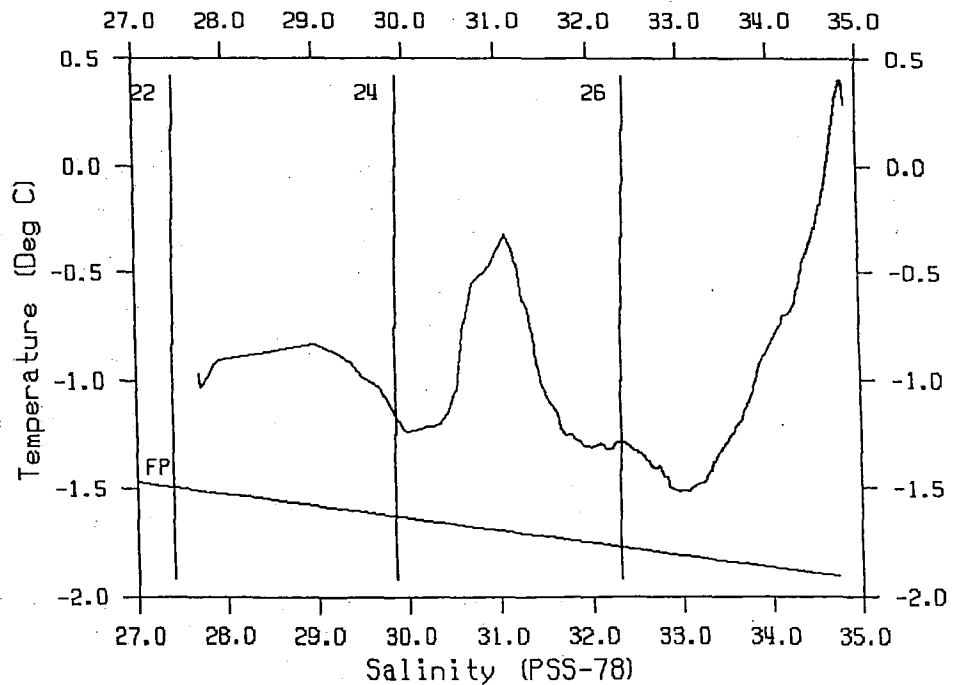
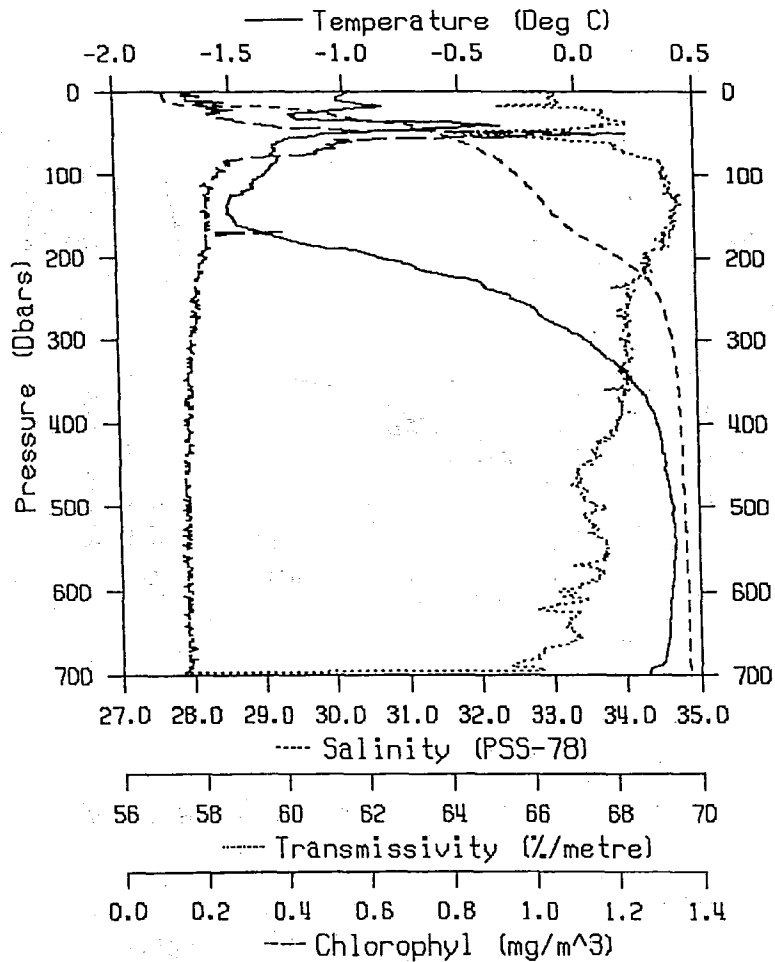
STATION : BB12

REFERENCE NO.: 95-26-120

DATE/TIME : 04/09/95 18:10 UTC

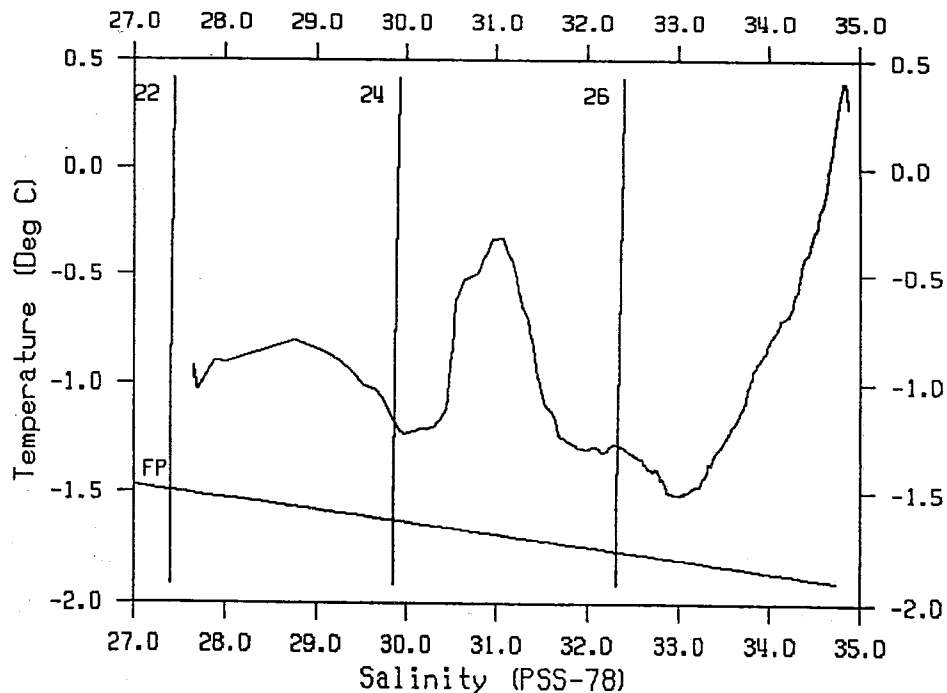
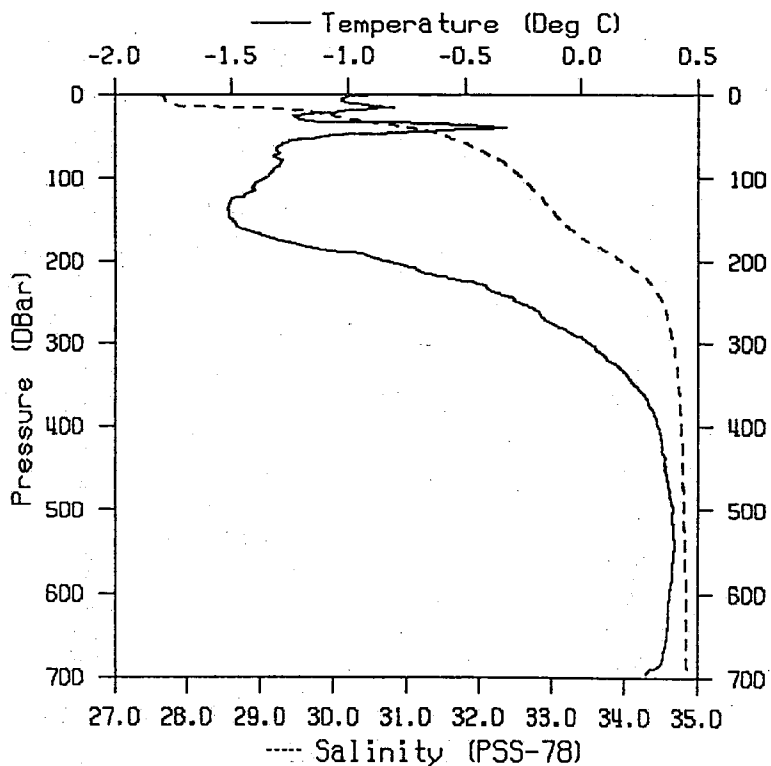
POSITION : 72-59.5N 129-20.7W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-1.011	-1.011	27.704	5	557.7	66.7	.21	22.270	1434.7
7	-1.030	-1.030	27.708	7	557.4	66.5	.20	22.273	1434.6
10	-1.021	-1.021	27.733	10	555.4	66.8	.18	22.293	1434.8
15	-.906	-.906	27.940	15	539.5	66.7	.19	22.458	1435.7
20	-.981	-.981	29.511	20	417.9	67.4	.22	23.732	1437.5
25	-1.187	-1.188	29.908	25	386.7	67.8	.26	24.057	1437.1
30	-1.216	-1.216	30.205	30	363.6	67.8	.25	24.299	1437.5
40	-.325	-.326	31.083	40	298.5	67.6	.38	24.983	1443.0
50	-1.090	-1.091	31.530	50	261.6	65.7	1.24	25.370	1440.2
75	-1.319	-1.321	32.203	74	208.9	68.6	.48	25.922	1440.4
100	-1.350	-1.352	32.597	99	178.4	69.2	.25	26.242	1441.2
150	-1.499	-1.502	33.119	149	137.4	69.5	.22	26.670	1442.0
200	-.860	-.865	33.974	198	74.0	68.9	.22	27.342	1447.0
250	-.290	-.298	34.520	248	34.9	68.5	.18	27.759	1451.2
350	.227	.213	34.742	347	21.0	68.4	.17	27.911	1455.5
500	.396	.374	34.814	495	16.7	67.8	.17	27.959	1458.9
697	.283	.252	34.865	689	12.2	57.6	.15	28.007	1461.7



Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB12  
 REFERENCE NO.: 95-06-121  
 DATE/TIME : 04/09/95 18:16 UTC  
 POSITION : 72-59.5N 129-20.7W

Pres	Temp	Theta	Sal	Dept	SVR	Z Tr	Chlo	Sig-t	Sound
5	-1.027	-1.027	27.706	5	557.6			22.271	1434.6
7	-1.030	-1.030	27.704	7	557.7			22.269	1434.8
10	-.991	-.991	27.754	10	553.8			22.310	1434.9
15	-.805	-.805	28.764	15	476.0			23.123	1437.3
20	-1.027	-1.028	29.645	20	407.4			23.841	1437.5
25	-1.238	-1.238	29.976	25	381.4			24.113	1437.0
30	-1.205	-1.206	30.298	30	356.5			24.374	1437.7
40	-.428	-.429	31.166	40	291.8			25.054	1442.7
50	-1.119	-1.120	31.578	50	257.8			25.409	1440.1
75	-1.312	-1.314	32.217	74	207.9			25.933	1440.5
100	-1.354	-1.356	32.597	99	178.4			26.242	1441.2
150	-1.492	-1.495	33.122	149	137.3			26.672	1442.0
200	-.850	-.856	33.964	198	74.8			27.394	1447.0
250	-.279	-.288	34.516	248	35.3			27.755	1451.3
350	.231	.217	34.742	347	21.0			27.911	1455.6
500	.397	.375	34.814	495	16.7			27.959	1458.9
696	.282	.252	34.866	688	12.1			28.008	1461.6

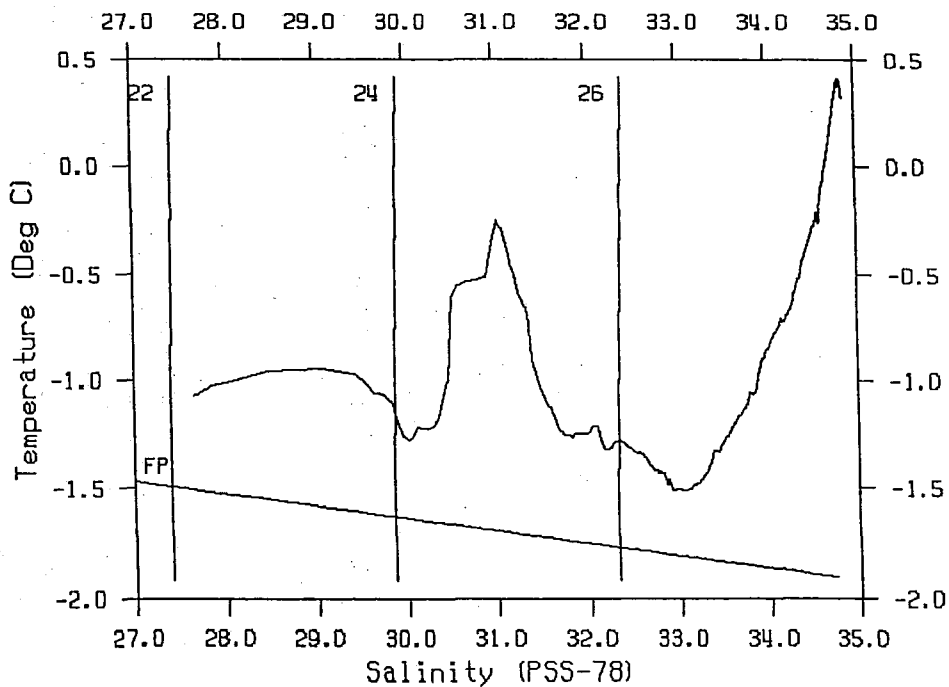
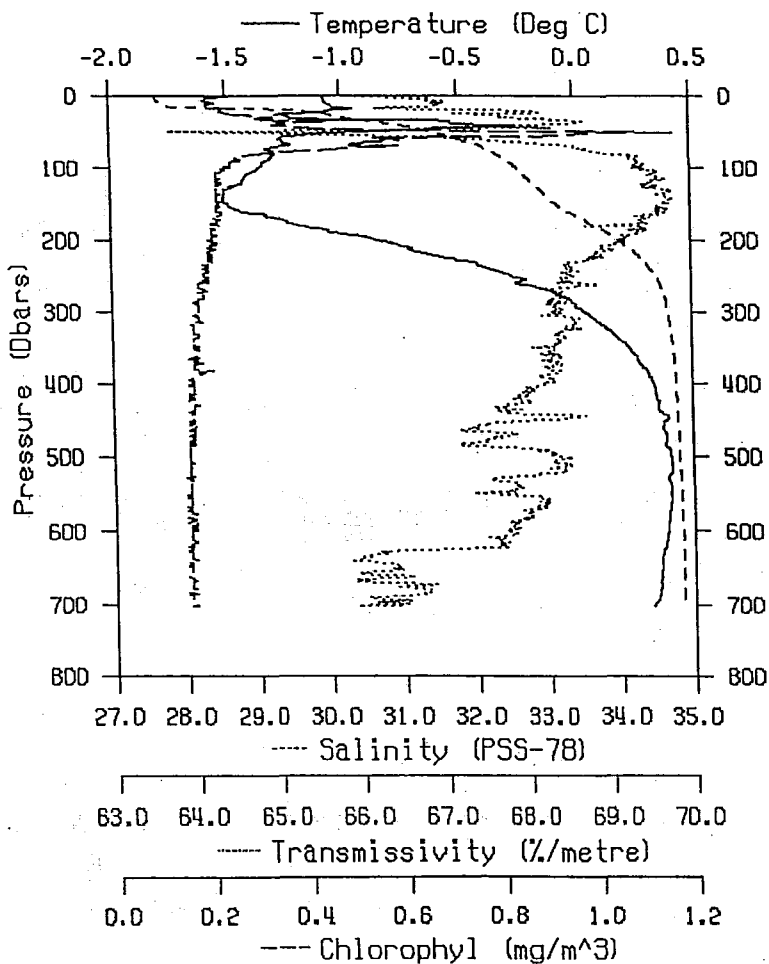




Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB12  
 REFERENCE NO.: 95-26-122  
 DATE/TIME : 04/09/95 20:50 UTC  
 POSITION : 73- .1N 129-20.8W

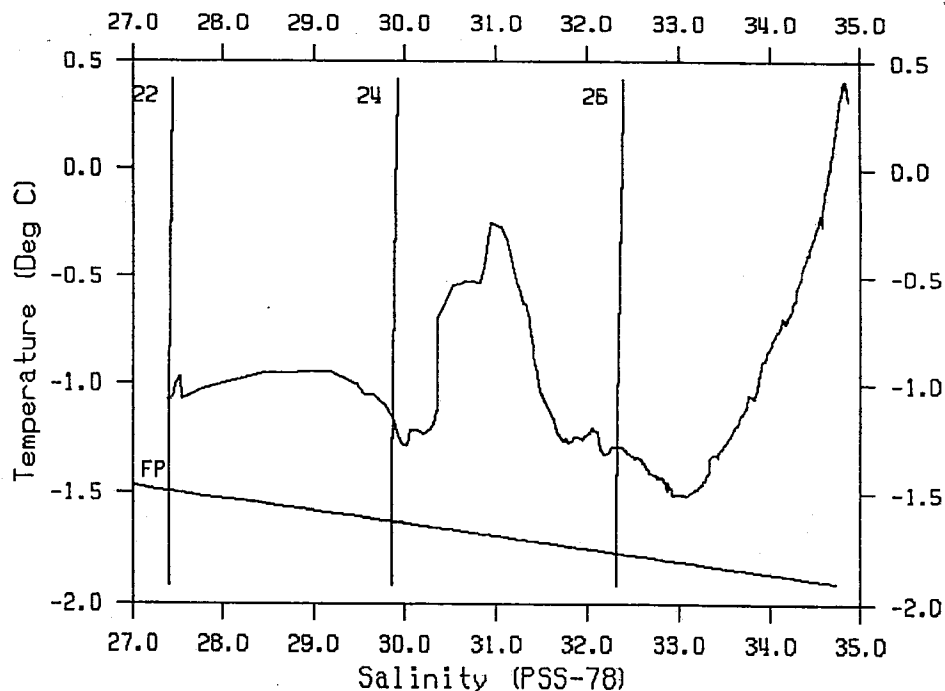
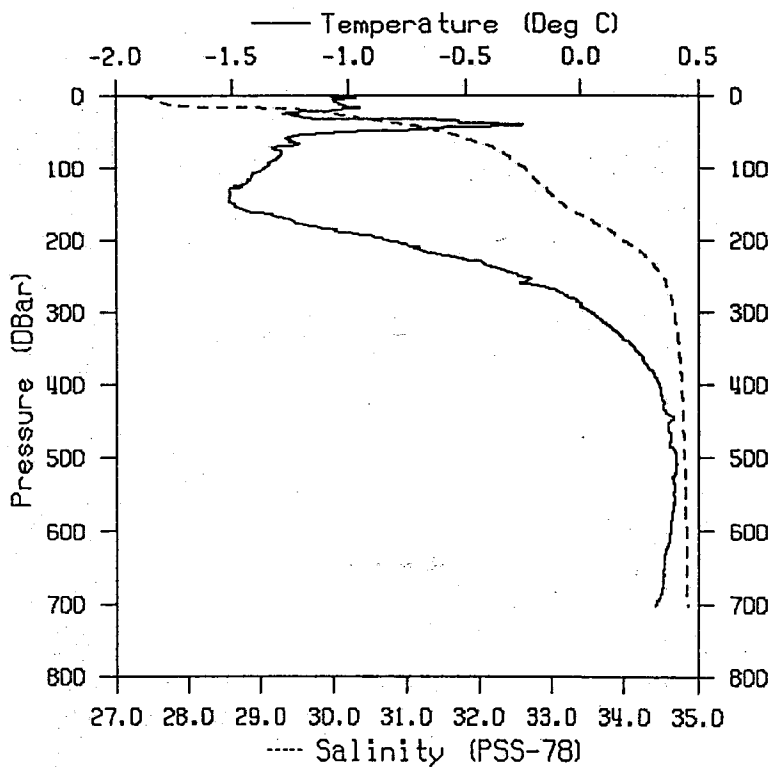
Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-1.070	-1.070	27.677	5	559.8	66.6	.20	22.248	1434.4
7	-1.067	-1.067	27.680	7	559.5	66.9	.19	22.251	1434.4
10	-1.058	-1.058	27.722	10	556.2	67.1	.22	22.284	1434.6
15	-1.027	-1.027	27.849	15	546.3	66.9	.21	22.387	1435.0
20	-1.025	-1.026	29.583	20	412.2	67.7	.23	23.791	1437.4
25	-1.260	-1.260	29.975	25	381.4	67.2	.24	24.114	1436.9
30	-1.223	-1.224	30.254	30	359.9	67.7	.34	24.339	1437.5
40	-.348	-.349	30.965	40	307.5	68.1	.34	24.889	1442.8
50	-.943	-.944	31.418	50	270.7	63.7	1.02	25.274	1440.7
75	-1.317	-1.318	32.242	74	206.0	68.7	.45	25.953	1440.5
100	-1.354	-1.356	32.609	99	177.5	69.4	.24	26.252	1441.2
150	-1.495	-1.498	33.149	149	135.2	69.7	.22	26.694	1442.1
200	-.853	-.859	33.980	198	73.6	69.1	.21	27.347	1447.1
250	-.274	-.283	34.513	248	35.5	68.5	.19	27.753	1451.3
350	.228	.214	34.744	347	20.8	68.1	.18	27.913	1455.5
500	.407	.386	34.817	495	16.6	68.4	.16	27.961	1458.9
703	.322	.290	34.859	695	12.9	66.4	.16	28.001	1461.9

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Cruise 9526 - Louis S. St-Laurent  
 NW Passage and Beaufort Sea  
 STATION : BB12  
 REFERENCE NO.: 95-06-123  
 DATE/TIME : 04/09/95 20:50 UTC  
 POSITION : 73- .0N 129-20.5W

Pres	Temp	Theta	Sal	Dept	SVA	Z Tr	Chlo	Sig-t	Sound
5	-1.071	-1.071	27.545	5	570.0			22.142	1434.2
7	-1.061	-1.061	27.594	7	566.2			22.181	1434.3
10	-1.047	-1.047	27.661	10	560.9			22.235	1434.5
15	-.993	-.994	28.067	15	529.5			22.563	1435.4
20	-1.053	-1.054	29.666	20	405.8			23.858	1437.4
25	-1.278	-1.279	30.036	25	376.6			24.163	1436.9
30	-1.192	-1.192	30.315	30	355.2			24.388	1437.7
40	-.265	-.266	31.049	40	301.4			24.953	1443.3
50	-1.052	-1.053	31.511	50	263.2			25.353	1440.3
75	-1.292	-1.293	32.262	74	204.5			25.969	1440.6
100	-1.358	-1.360	32.620	99	176.6			26.261	1441.2
150	-1.467	-1.491	33.160	149	134.3			26.703	1442.1
200	-.845	-.850	33.980	198	73.6			27.346	1447.1
250	-.274	-.283	34.515	248	35.3			27.755	1451.3
350	.231	.217	34.743	347	20.9			27.912	1455.6
500	.408	.387	34.818	495	16.5			27.962	1458.9
702	.322	.291	34.860	694	12.8			28.001	1461.9



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Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

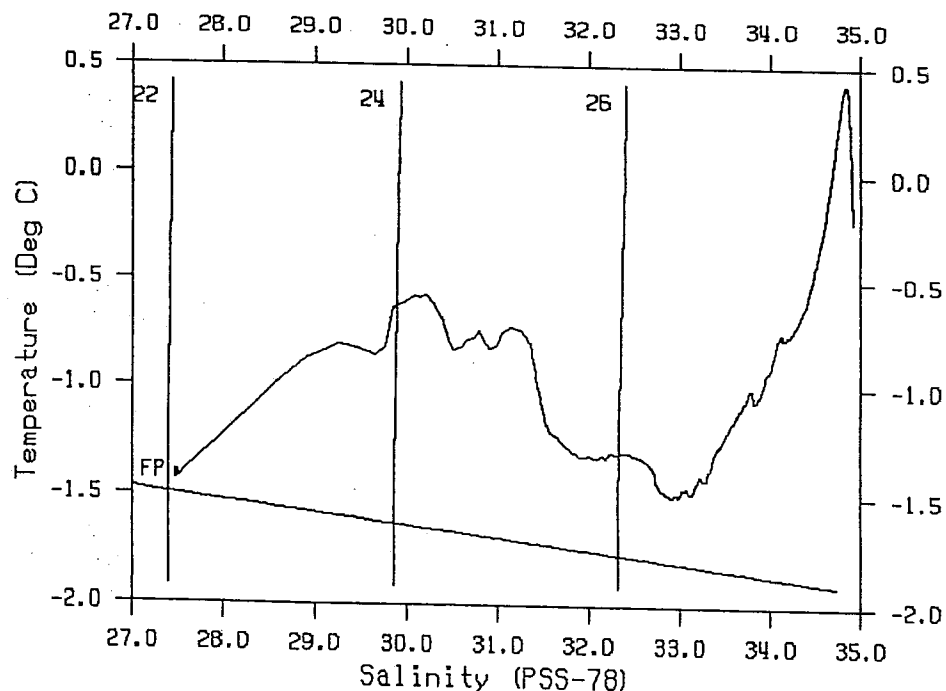
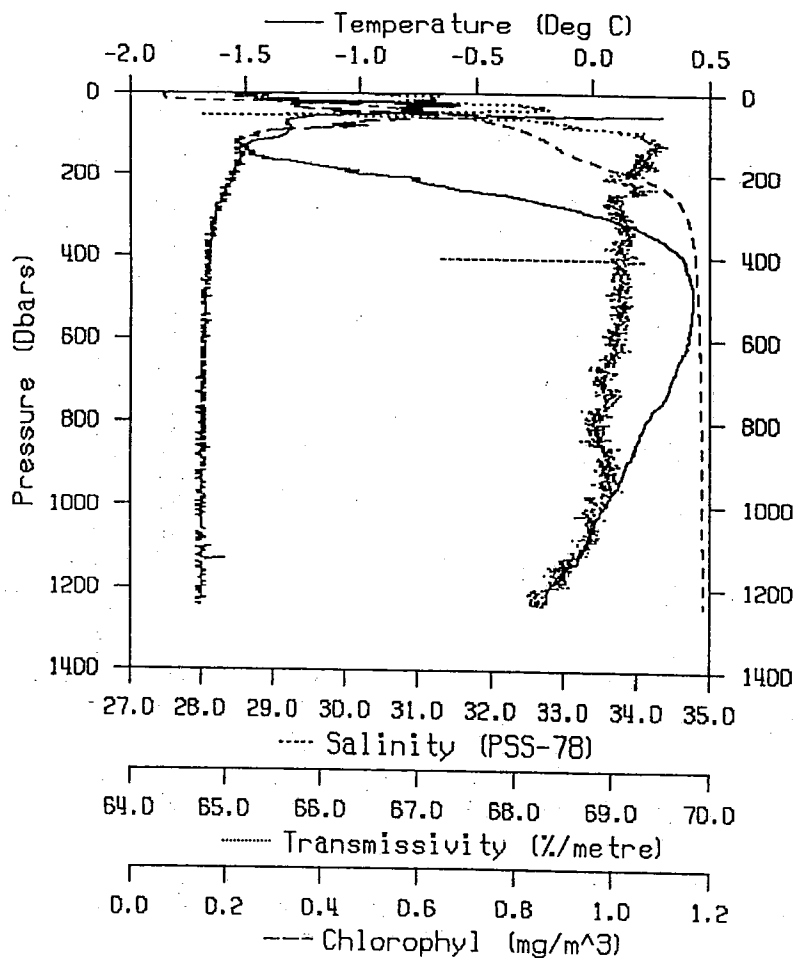
STATION : BB13

REFERENCE NO.: 95-26-124

DATE/TIME : 04/09/95 22:58 UTC

POSITION : 72-59.5N 129-53.1W

Pres	Temp	Theta	Sal	Dept	SVA	% Tr	Chlo	Sig-t	Sound
5	-1.403	-1.403	27.486	5	574.2	67.0	.23	22.097	1432.5
7	-1.398	-1.398	27.476	7	574.9	67.2	.22	22.090	1432.5
10	-1.426	-1.426	27.498	10	573.2	67.1	.22	22.107	1432.5
15	-1.421	-1.421	27.522	15	571.2	67.0	.26	22.127	1432.6
20	-.835	-.836	29.111	20	449.1	67.3	.35	23.405	1437.7
25	-.633	-.633	29.854	25	392.2	68.1	.46	24.001	1439.7
30	-.613	-.614	30.288	30	358.8	68.2	.33	24.351	1440.5
40	-.803	-.804	30.985	40	304.5	68.0	.41	24.920	1440.7
50	-1.051	-1.053	31.470	50	266.4	66.1	.67	25.320	1440.3
75	-1.315	-1.316	32.159	74	212.4	66.5	.44	25.886	1440.4
100	-1.320	-1.322	32.575	99	180.2	69.2	.27	26.223	1441.3
150	-1.480	-1.484	33.127	149	136.9	69.3	.23	26.676	1442.1
200	-.933	-.939	33.956	198	75.1	69.2	.22	27.330	1446.6
250	-.380	-.388	34.519	248	34.5	69.1	.20	27.763	1450.8
350	.263	.248	34.755	347	20.2	69.2	.17	27.919	1455.7
500	.426	.404	34.831	495	15.6	69.0	.16	27.972	1459.0
1000	.052	.007	34.868	988	8.8	68.9	.15	28.039	1465.6
1244	-.213	-.269	34.908	1228	5.1	68.2	.15	28.069	1468.5



Cruise 9526 - Louis S. St-Laurent

NW Passage and Beaufort Sea

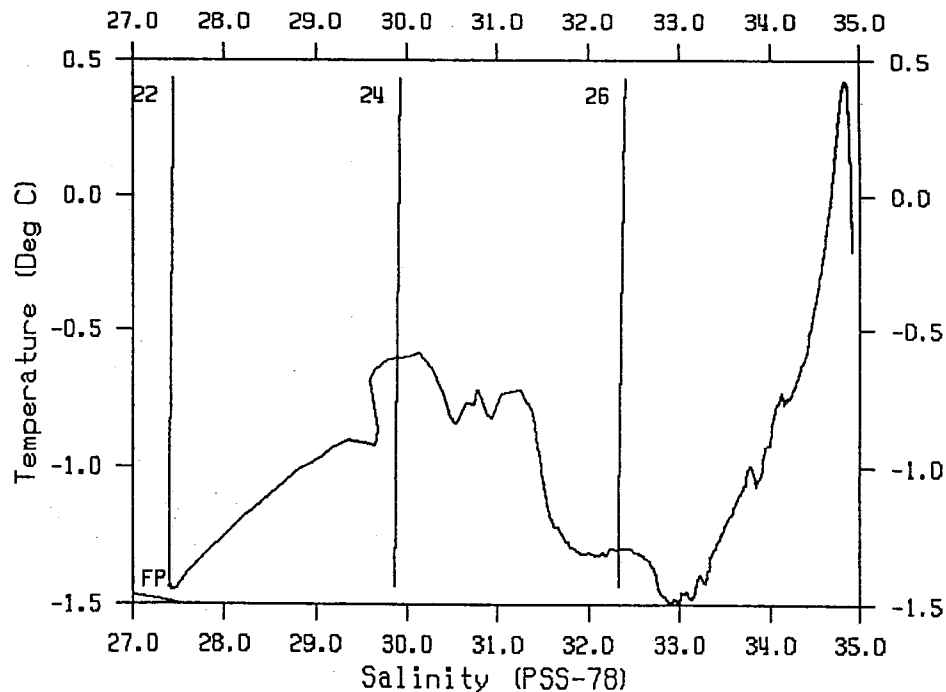
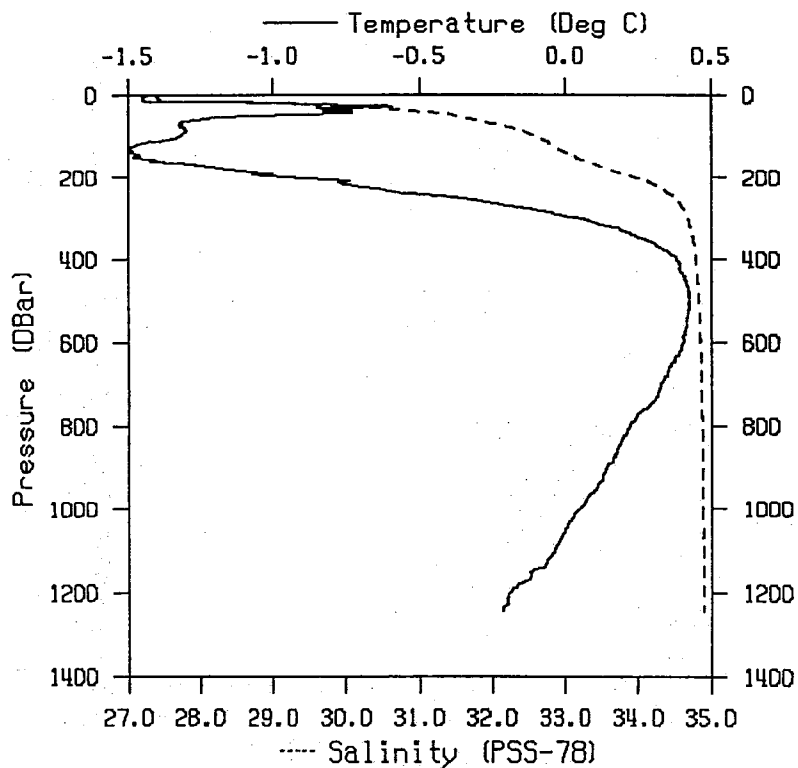
STATION : BB13

REFERENCE NO.: 95-06-125

DATE/TIME : 04/09/95 22:54 UTC

POSITION : 72-59.5N 129-53.1W

Pres	Temp	Theta	Sal	Dept	SVR	% Tr	Chlo	Sig-t	Sound
5	-1.442	-1.442	27.419	5	579.3			22.044	1432.2
7	-1.448	-1.449	27.423	7	579.0			22.046	1432.2
10	-1.445	-1.445	27.445	10	577.3			22.064	1432.3
15	-1.381	-1.382	27.617	15	563.9			22.203	1432.9
20	-.907	-.907	29.353	20	430.3			23.602	1437.6
25	-.654	-.655	29.648	25	408.1			23.834	1439.3
30	-.735	-.735	30.391	30	350.5			24.437	1440.0
40	-.742	-.743	31.051	40	299.5			24.972	1441.0
50	-1.105	-1.106	31.532	50	261.4			25.372	1440.1
75	-1.322	-1.324	32.187	74	210.2			25.908	1440.4
100	-1.321	-1.323	32.592	99	178.8			26.237	1441.3
150	-1.482	-1.485	33.139	149	135.9			26.686	1442.1
200	-.924	-.929	33.966	198	74.3			27.338	1446.7
250	-.371	-.380	34.522	248	34.3			27.765	1450.9
350	.266	.252	34.757	347	20.1			27.921	1455.7
500	.426	.404	34.835	495	15.3			27.975	1459.0
1000	.050	.005	34.891	988	8.5			28.042	1465.6
1245	-.212	-.268	34.908	1229	5.1			28.069	1468.5



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## 4.2 Chemistry Data Tables

The following appendix contains chemical data from water samples (salinity, dissolved oxygen, orthophosphate, nitrate plus nitrite, silicate, extracted chlorophyll a and extracted phaeo-pigment) collected on the 9526 cruise. The tables include the station name, cast number, date and time of cast, the latitude (LAT) and longitude (LONG) (positions, dates and times recorded at the beginning of the cast), the cast depth in decibars and the bottom depth in metres. Also included in the tables are the CTD data (salinity and temperature), Transmissometer data and Fluorometer data that coincide with the time of bottle trip.

**Following are the notes referred to in the tables :**

1. Station BB03 (150m) - bottle appears to have tripped at wrong depth as salinity, nutrients and oxygen data are out of place. Data has been removed from the table and was as follows : Salinity - 32.148 psu; Oxygen - 330.7  $\mu\text{M}$ ; Phosphate - 1.46  $\mu\text{M}$ ; Silicate - 12.4  $\mu\text{M}$ ; Nitrate - 5.2  $\mu\text{M}$ .
2. Station BB09 (40m) - oxygen data was deleted due error in titration - value removed was 340.5  $\mu\text{M}$ .
3. Station BB11 (350m) - bottle appears to have tripped at wrong depth as salinity, nutrients and oxygen data are out of place. Data has been removed from the table and was as follows : Salinity - 34.452 psu; Oxygen - 259.2  $\mu\text{M}$ ; Phosphate - 1.35  $\mu\text{M}$ ; Silicate - 20.4  $\mu\text{M}$ ; Nitrate - 15.4  $\mu\text{M}$ .
4. Station BB13(700m) - Salinity appears a little on the low side suggesting that the bottle may have leaked or tripped at a shallower depth. Nutrient and oxygen data look OK but may have the same problem as salinity but these parameters are not changing much in this part of the water column.
5. Station BB05(50m) - Salinity appears on the high side suggesting that the bottle may have leaked or tripped deeper, nutrient and oxygen data look OK.
6. CTD data is from Guildline downcast 1 metre averaged data from cast 14. The CTD pressure of 626 is the deepest that CTD recorded. The bottle depth of 634 is correct.
7. CTD data is from Guildline downcast 1ma data from cast 30. The CTD pressure of 195 is the deepest that CTD recorded. The bottle depth of 200 is correct.

8. We have made the assumption that the bottles were numbered incorrectly and that 123235 was placed on the bottle in position 2 instead of the bottle in position 1. All other bottles followed in sequence. We also assume that the salinity labeled 123256 was taken from 123255 because the 123255 BOT bottle was empty (no trip).
9. Station AR05 - salinity variations at same depth possibly due to bottom currents along the shelf break???
10. Station AR10 (50m) - the salinity of 32.765 is an average of 31.791 and 33.738 which are the two values for the duplicates taken from the same bottle. The value of 31.791 has been entered into the table and is assumed to be the correct value in that it fits nicely in with the profile and the TS plot, assuming that station AR10 has similarities to stations AR11 and AR12.
11. Salinity is average of 31.451 and 32.093
12. Salinity of 34.554 is too high and was eliminated
13. Stn BB07 (30m) - NO<sub>3</sub> value of 0.9 is possibly not correct as stations BB08 and BB11 show that NO<sub>3</sub> concentration stays at zero till 50m.
14. Station AR09 (100m) bottle salinity (32.969 psu) is too high and has been removed from the table.
15. Station AR09 (3250m) oxygen value of 303.3 uM removed from the table as it was too high.
16. The nitrate data from leg 2 should be used with caution as there are offsets in the data in the profiles where samples from different casts are run in different analytical runs. This especially noticeable for stations AR05, AR09 and BB12 where multiple casts were run. There was no credible way to correct for this problem.
17. Station AR11 (150m) - the bottle salinity for this depth was too low (32.179 psu) and has been removed from the table and is not included in any plots.

Cruise : 9526  
 Station : B101

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Dep'th
1	52.128	55.353	3/8/95	18:30	?	161

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
1	1	0		30.753		0.41	1.40	0.00							
2	1	BOT.		33.161											



Cruise : 9526  
 Station : LS02

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
5	62.020	58.427	5/8/95	17:19	600	2194

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	Notes
3	5	0		33.668											
4	5	600		34.861											

Cruise : 9526  
 Station : DS01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
13	72.220	71.409	8/8/95	11:30	628	1094

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
5	13	634	626.0								34.456	0.8387	68.09	0.21	
6	13	634	626.0	34.448		1.24	26.07	16.87			34.456	0.8387	68.11	0.19	
7	13	634	626.0								34.456	0.8387	68.13	0.18	
8	13	634	626.0								34.456	0.8387	68.10	0.18	
9	13	634	626.0								34.456	0.8387	68.09	0.18	
10	13	634	626.0	34.450							34.456	0.8387	68.21	0.18	
11	13	634	626.0								34.456	0.8387	68.16	0.18	
12	13	634	626.0								34.456	0.8387	68.18	0.18	
13	13	634	626.0								34.456	0.8387	68.13	0.19	
14	13	634	626.0								34.456	0.8387	68.20	0.18	
15	13	634	626.0								34.456	0.8387	68.24	0.18	
16	13	634	626.0	34.451							34.456	0.8387	68.33	0.18	
17	13	634	626.0								34.456	0.8387	68.21	0.19	
18	13	634	626.0								34.456	0.8387	68.28	0.19	
	13	634	626.0								34.456	0.8387	68.28	0.18	
19	13	634	626.0	34.452							34.456	0.8387	68.19	0.18	
20	13	634	626.0								34.456	0.8387	68.18	0.18	
	13	634	626.0								34.456	0.8387	68.22	0.19	
	13	634	626.0								34.456	0.8387	68.23	0.18	
22	13	5	5.0	31.273		1.00	8.92	0.00			31.294	0.2527	55.13	0.79	
	13	5	5.0								31.294	0.2527	56.79	0.54	

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Cruise : 9526  
 Station : LD01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
17	73.469	85.015	8/10/95	14:30	593	651

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
23	17	600	591.5	34.017							34.013	-0.2602	65.62	0.21	
	17	600	591.2								34.013	-0.2597	65.64	0.20	
	17	600	590.7								34.013	-0.2619	65.65	0.21	
24	17	600	590.3	34.015							34.012	-0.2622	65.64	0.20	
	17	600	590.0								34.012	-0.2626	65.62	0.20	
25	17	600	589.5	34.014							34.012	-0.2642	65.64	0.20	
26	17	600	588.0								34.011	-0.2661	65.70	0.20	
27	17	600	587.6	34.015		1.36	28.66	15.50			34.010	-0.2670	65.71	0.20	
28	17	600	587.2								34.011	-0.2664	65.66	0.20	
29	17	600	586.5								34.010	-0.2677	65.69	0.20	
30	17	600	585.9	34.015							34.010	-0.2679	65.71	0.20	
31	17	600	585.5								34.009	-0.2693	65.52	0.20	
32	17	600	585.5	34.015							34.009	-0.2693	65.80	0.20	
33	17	600	586.0								34.009	-0.2686	65.72	0.20	
34	17	600	586.9	34.015							34.010	-0.2679	65.65	0.20	
35	17	600	587.8								34.010	-0.2669	65.80	0.21	
36	17	600	588.9	34.015							34.011	-0.2653	65.76	0.21	
37	17	600	589.8								34.012	-0.2641	65.76	0.21	
38	17	5	4.2	30.912	0.77		4.12	0.00			30.880	2.5911	48.44	1.24	
39	17	5	4.3	30.975							30.957	2.3883	45.94	2.18	
	17	5	4.3	30.971							30.931	2.4598	46.59	1.81	

Cruise : 9526  
 Station : PS01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
20	73.361	96.028	8/12/95	15:41	238	236

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123161	20	237	237.1	33.047		1.72	33.65	15.18			33.042	-1.2402	56.53	0.24	
123162	20	237	237.1	33.045		1.73	32.79	14.80			33.041	-1.2379	56.50	0.24	
123163	20	200	200.2	32.943		1.47	31.35	14.11			32.935	-1.2854	65.55	0.22	
	20	200	200.2								32.935	-1.2854	65.60	0.22	
123164	20	120	120.7	32.621		1.59	28.79	13.37			32.625	-1.3260	65.90	0.23	
123165	20	120	120.7	32.623		1.49	29.23	13.25			32.624	-1.3263	65.91	0.22	
123166	20	80	80.2	32.157		1.49	22.87	10.29			32.151	-1.3215	66.37	0.31	
123167	20	40	40.1	31.236		1.18	14.93	4.74			31.232	-1.2273	65.33	0.76	
	20	40	40.2								31.234	-1.2277	64.46	0.71	
123169	20	2	1.8	27.152		0.66	6.44	0.02			24.398	-0.4193	62.25	0.20	
	20	2	1.7								24.376	-0.7402	62.53	0.22	
123168	20	2	1.7	24.582		0.59	6.00	0.05			24.432	-0.7031	63.02	0.21	

Cruise : 9526  
 Station : PS02

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
23	72.110	95.944	8/12/95	22:11	404	400

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123170	23	390	390.5	33.128		1.92	35.37	16.55			33.123	-1.2362	45.71	0.23	
123171	23	390	390.6	33.124							33.123	-1.2357	45.46	0.23	
123172	23	300	300.0	33.047		1.84	33.66	15.87			33.045	-1.2607	64.42	0.21	
123173	23	300	300.1	33.042							33.045	-1.2604	64.60	0.21	
123174	23	200	200.8	32.930		1.87	31.25	15.02			32.926	-1.2814	64.11	0.31	
123175	23	200	201.0	32.927							32.925	-1.2812	64.35	0.23	
123176	23	150	150.2	32.828		1.83	29.97	14.36			32.827	-1.2979	64.68	0.23	
123177	23	150	150.5	32.826							32.825	-1.2980	64.62	0.23	
123178	23	100	100.2	32.608		1.74	27.28	12.93			32.606	-1.3183	65.19	0.24	
123179	23	100	100.3	32.609							32.606	-1.3185	65.42	0.25	
123180	23	75	74.7	32.400		1.67	24.15	11.40			32.398	-1.3292	66.09	0.27	
123181	23	75	74.8	32.400							32.394	-1.3287	66.54	0.26	
123182	23	50	50.1								31.863	-1.3059	66.99	0.33	
123183	23	50	50.1	31.870		1.45	17.43	7.54			31.860	-1.3066	67.16	0.34	
123184	23	50	50.1	31.848							31.853	-1.3060	66.93	0.35	
123185	23	25	24.9	30.331		0.94	6.33	0.53			30.321	-1.1724	66.33	0.38	
123186	23	25	24.9	30.299							30.302	-1.1696	66.37	0.33	
123187	23	10	10.0	28.671		0.83	4.37	0.04			28.456	-0.4512	65.10	0.44	
123188	23	10	10.0	28.202							27.833	-0.3608	66.46	0.25	
123189	23	2	1.6	24.405		0.68	4.23	0.00			25.082	0.0537	59.78	0.43	

Cruise : 9526  
 Station : VS01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
26	68.713	102.606	8/13/95	21:40	100	99

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123191	26	98	97.7	29.629		1.29	14.55	4.12			29.634	-1.5622	57.12	0.42	
123192	26	98	97.8	29.620							29.642	-1.5690	56.92	0.75	
123193	26	98	97.8	29.624							29.639	-1.5653	56.36	0.49	
123194	26	75	73.9	29.220		1.40	11.53	2.83			29.249	-1.5017	58.50	1.01	
123195	26	75	73.9	29.221							29.235	-1.4967	57.98	1.26	
123196	26	75	73.9	29.212							29.210	-1.4899	58.72	1.34	
123197	26	75	73.9	29.208							29.204	-1.4894	58.59	0.94	
123198	26	50	49.8	28.645		1.00	4.80	0.49			28.684	-1.4073	53.33	3.00	
123199	26	50	49.8	28.638							28.687	-1.4043	46.30	3.00	
123200	26	50	49.8	28.662							28.662	-1.3962	46.18	3.00	
123201	26	25	24.7	28.313		0.96	7.71	0.00			28.304	-1.0570	63.83	0.35	
123202	26	25	24.7	28.351							28.359	-1.1071	63.13	0.39	
123203	26	25	24.6	28.323							28.329	-1.0681	63.19	0.35	
123204	26	25	24.6	28.308							28.331	-1.0728	63.87	0.35	
123205	26	10	9.8	27.788		0.89	6.57	0.00			27.952	-0.0016	63.65	0.20	
123206	26	10	9.8	27.706							27.633	0.5450	63.06	0.19	
123207	26	10	9.8	27.608							27.567	0.7998	62.94	0.21	
123208	26	2	1.6	23.746		0.72	5.80	0.00			20.848	7.2082	51.63	0.23	
123209	26	2	1.6	21.933							19.889	8.3437	55.08	0.23	
123210	26	2	1.5	21.116							19.909	8.1555	55.38	0.26	
123211	26	2	1.5	20.932							19.900	8.1711	55.39	0.23	

Cruise : 9526  
 Station : AG01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
29	69.109	115.709	8/15/95	20:32	196	200

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123212	29	200	195.8	34.107		1.62	33.77	16.83			34.117	-0.5548			7
123213	29	200	195.8	34.111							34.117	-0.5548			7
123214	29	175	175.5	33.937		1.66	33.19	16.69			33.991	-0.6699			7
123215	29	175	175.5	33.936							33.991	-0.6699			7
123216	29	150	150.0	33.643		1.80	34.27	16.58			33.749	-0.8772			7
123217	29	150	150.0	33.628							33.749	-0.8772			7
123218	29	125	124.5	33.114		1.90	34.36	15.58			33.245	-1.1795			7
123219	29	125	124.5	33.122							33.245	-1.1795			7
123220	29	100	100.0	32.811		1.82	31.46	14.45			32.831	-1.2949			7
123221	29	100	100.0	32.811							32.831	-1.2949			7
123222	29	75	74.5	32.653		1.81	28.87	13.56			32.684	-1.2905			7
123223	29	75	74.5	32.656							32.684	-1.2905			7
123224	29	50	50.0	32.298		1.57	21.36	10.57			32.428	-1.2200			7
123225	29	50	50.0	32.279							32.428	-1.2200			7
123226	29	50	50.0	32.305							32.428	-1.2200			7
123227	29	25	25.0	31.085		0.81	4.57	0.01			31.428	-0.9623			7
123228	29	25	25.0	31.050							31.428	-0.9623			7
123229	29	10	10.5	30.089		0.68	4.18	0.00			30.723	2.5372			
123230	29	10	10.5	30.122							30.723	2.5372			
123231	29	10	10.5	29.882							30.723	2.5372			
123232	29	2	2.1	28.563		0.69	4.12	0.00			28.996	5.2214			
123233	29	2	2.1								28.996	5.2214			
123234	29	2	2.1	28.672							28.996	5.2214			

Cruise : 9526  
 Station : AG02

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
31	70.419	124.355	8/16/95	16:22	239	240

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
123235	31	236	235.8								34.506	-0.1900	61.02	0.21	8,16
123236	31	200	200.1	34.223		1.32	23.90	15.44			34.506	-0.1899	61.34	0.22	8
123237	31	175	174.5	33.785		1.73	32.81	16.57			34.287	-0.4985	63.10	0.23	8
123238	31	150	149.3	33.450		1.85	34.38	16.41			33.809	-0.8771	64.87	0.23	8
123239	31	150	149.4	33.447		1.85	34.38	16.41			33.471	-1.1440	65.50	0.22	8
123240	31	125	124.4	33.112		1.83	34.03	16.48			33.458	-1.1406	65.53	0.22	8
123241	31	125	124.4	33.107		1.85	32.91	15.92			33.153	-1.2995	65.18	0.23	8
123242	31	100	99.6	32.834		1.85	32.91	15.92			33.130	-1.3020	65.18	0.23	8
123243	31	100	99.6	32.833		1.80	31.50	14.53			32.848	-1.3387	64.81	0.23	8
123244	31	75	75.0	32.529		1.80	31.50	14.53			32.837	-1.3365	64.98	0.24	8
123245	31	75	75.0	32.510		1.71	24.61	12.01			32.540	-1.2787	64.45	0.40	8
123246	31	50	49.3	32.032		1.71	24.61	12.01			32.535	-1.2734	64.41	0.44	8
123247	31	50	49.2	32.018		1.33	11.60	5.54			32.050	-1.0928	59.43	1.43	8
123248	31	50	49.2	32.012		1.33	11.60	5.54			31.992	-1.0460	56.68	2.75	8
123249	31	25	24.0	31.331		1.33	11.60	5.54			31.999	-1.0683	57.42	2.45	8
123250	31	25	24.0	31.319		0.69	3.79	0.00			31.333	0.6424	63.52	0.42	8
123251	31	10	10.2	30.703		0.69	3.79	0.00			31.316	0.6657	63.81	0.58	8
123252	31	10	10.2	30.701		0.70	4.34	0.01			30.780	2.1649	63.59	0.41	8
123253	31	10	10.1	30.698		0.70	4.34	0.01			30.786	2.4702	63.29	0.39	8
123254	31	2	1.9	29.812		0.66	3.83	0.01			30.818	2.7621	62.79	0.41	8
123255	31	2	1.9	29.803		0.66	3.83	0.01			29.804	6.9400	60.79	0.44	8
123256	31	2				0.66	3.83	0.01			29.806	6.9682	60.73	0.44	8



Cruise : 9526  
 Station : AR01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
33	70.258	136.952	8/19/95	18:12	56	54

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
129105	33	50	49.2	32.477	313.3										
129106	33	50	49.6	32.464	314.2						32.478	-1.4209	49.37	0.27	
129107	33	50	49.6	32.479	312.1	1.69	28.5	11.7	0.023	0.024	32.476	-1.4233	49.44	0.27	
129108	33	50	49.7	32.476	314.7						32.478	-1.4242	49.52	0.25	16
129109	33	40	40.4	32.454	315.6	1.67	28.0	11.4	0.023	0.024	32.476	-1.4240	49.38	0.27	
129110	33	40	40.4	32.446	316.6						32.449	-1.4247	44.72	0.25	16
129111	33	30	29.5	32.328	328.1	1.59	25.4	10.4	0.058	0.021	32.432	-1.4206	55.91	0.25	
129112	33	30	29.6	32.282	330.7						32.328	-1.4184	61.70	0.29	16
129113	33	20	19.2	31.210	354.2	1.09	14.6	3.6	0.399	0.111	32.309	-1.4327	60.00	0.55	
129114	33	20	19.2	31.650	352.2						31.018	-0.6958	52.43	1.67	16
129115	33	10	9.0	26.786	372.0	0.58	10.5	0.8	0.475	0.177	31.857	-1.4630	62.75	0.68	
129116	33	10	9.0	25.551	346.1						29.812	0.5351	47.12	1.73	16
129117	33	2	2.3	21.073	311.0	0.23	15.1	0.3	0.237	0.124	26.795	3.7370	41.88	1.61	
129118	33	2	2.2	20.167	309.5						20.658	10.0839	47.14	1.08	16
											19.979	10.8010	50.07	0.82	

Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
36	72.986	145.361	8/20/95	21:22	121	3370

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129119	36	120	120.6	32.831	297.3	1.90	32.9		0.008	0.015	32.858	-1.4612	67.60	0.23	
129120	36	110	109.5	32.728		1.86	31.2	12.8			32.735	-1.4359	67.71	0.22	16
129121	36	110	109.6	32.734							32.726	-1.4343	67.69	0.23	
129122	36	110	109.6	32.722	302.2	1.86	31.1	12.8	0.007	0.015	32.724	-1.4330	67.75	0.22	16
129123	36	110	109.7			1.86	30.9	12.8			32.727	-1.4335	67.72	0.22	16
129124	36	110	109.7	32.717							32.729	-1.4342	67.66	0.22	
129125	36	110	109.7	32.723							32.730	-1.4345	67.73	0.22	
129126	36	110	109.8	32.723							32.730	-1.4344	67.69	0.22	
129127	36	110	109.8	32.723		1.86	31.0	12.8			32.731	-1.4350	67.80	0.22	16
129128	36	110	109.7	32.723							32.731	-1.4351	67.80	0.21	
129129	36	110	109.8	32.710							32.729	-1.4346	67.78	0.22	
129130	36	110	109.7	32.724							32.729	-1.4344	67.73	0.23	
129131	36	80	79.8	32.345		1.64	24.9	9.7			32.347	-1.3561	67.69	0.25	16
129132	36	80	79.8	32.342							32.348	-1.3565	67.65	0.24	
129133	36	80	79.8	32.344	325.1	1.66	25.0	9.9			32.349	-1.3568	67.68	0.25	16
129134	36	70	69.3	32.167	337.5	1.53	21.2	8.1	0.051	0.032	32.169	-1.3408	67.79	0.29	16
129135	36	60	59.1	31.901	388.8	1.34	15.2	5.5			31.972	-1.3660	67.44	0.42	16
129136	36	50	49.5	31.368	395.1	1.09	8.6	2.5	0.240	0.253	31.452	-1.4586	66.08	0.82	16
129137	36	40	39.0	30.819	409.1	0.95	7.3	1.2	0.171	0.248	30.842	-1.5250	66.55	0.64	16
129138	36	30	28.9	30.368	421.2	0.84	6.9	0.2	0.233	0.164	30.361	-1.3519	65.76	0.90	16
129139	36	20	18.9	29.966	426.2	0.81	5.7	0.0	0.054	0.077	29.946	-1.0882	67.63	0.33	16
129140	36	10	9.7	29.548	429.5	0.78	5.3	0.0	0.025	0.027	29.459	-0.5050	67.67	0.23	16
129141	36	0	-0.4	24.974	347.2	0.65	4.2	0.1	0.047	0.050	25.074	-0.7053	64.22	0.22	16

Cruise : 9526  
Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
38	72.981	145.039	8/21/95	14:32	241	3370

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129142	38	240	241.2	34.486	282.9	1.19	18.6	13.6			34.491	-0.4559	68.28	0.19	
129143	38	230	230.1	34.488	275.4	1.28	21.2	13.8			34.417	-0.5684	68.11	0.19	16
129144	38	220	219.6	34.337	278.0	1.37	23.6	14.0			34.331	-0.6773	67.96	0.20	16
129145	38	210	209.6	34.184	274.7	1.49	27.9	14.4			34.259	-0.7751	68.01	0.20	16
129146	38	200	199.8	34.055	275.4	1.59	27.0	14.7	0.003	0.015	34.067	-0.9178	68.15	0.21	16
129147	38	190	189.4	33.853	277.2	1.72	30.6	15.0			33.899	-1.0831	68.15	0.22	16
129148	38	180	179.4	33.714	277.5	1.78	32.2	14.9			33.677	-1.2179	68.01	0.22	16
129154	38	180	179.4	33.719		1.78	32.2	14.7			33.670	-1.2289	68.00	0.22	16
129155	38	180	179.5	33.635							33.643	-1.2356	67.86	0.22	
129156	38	180	179.5	33.633							33.638	-1.2373	67.93	0.22	
129157	38	180	179.5	33.626							33.638	-1.2389	67.93	0.22	
129158	38	180	179.5	33.626							33.637	-1.2394	67.97	0.22	
129149	38	170	169.3	33.463	284.4	1.85	33.6	14.4			33.481	-1.3163	67.75	0.22	16
129150	38	160	158.9	33.298	288.0	1.87	34.4	14.3			33.316	-1.3886	67.72	0.22	16
129151	38	150	149.2	33.156	292.6	1.91	34.6	13.9	0.003	0.012	33.176	-1.4446	67.62	0.22	16
129152	38	150	149.3	33.178		1.90	34.7	13.8			33.152	-1.4538	67.40	0.22	16
129153	38	150	149.3	33.174							33.148	-1.4528	67.64	0.22	
129159	38	140	139.8	33.023	293.6	1.91	34.6	13.4			33.016	-1.4708	67.58	0.22	16
129160	38	120	120.1	32.783		1.86	31.9	12.3			32.786	-1.4526	67.42	0.23	16
129161	38	120	120.1	32.786							32.793	-1.4532	67.49	0.25	
129162	38	120	120.2								32.800	-1.4550	67.40	0.23	
129163	38	120	120.1	32.801							32.804	-1.4552	67.45	0.23	
129164	38	100	100.0		308.7	1.82	28.9	11.9	0.009	0.013	32.590	-1.3942	67.68	0.22	14, 16

Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
40	72.966	144.969	8/21/95	18:12	353	3370

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129165	40	350	352.3	34.759	299.6	0.97	8.2	13.2			34.760	0.3212	68.41	0.17	16
129166	40	325	324.8	34.727	294.0	0.99	9.1	12.9			34.732	0.2203	68.61	0.17	16
129167	40	300	299.8	34.682	290.5	1.03	10.5	12.9	0.001	0.012	34.680	0.0396	68.89	0.18	16
129168	40	300	299.8	34.680		1.02	10.6	13.2			34.681	0.0383	68.85	0.17	16
129169	40	300	299.9	34.682							34.681	0.0370	68.77	0.17	
129170	40	290	289.6	34.665	293.7	1.04	11.1	13.2			34.656	-0.0479	68.94	0.18	16
129171	40	280	279.7	34.643	289.8	1.06	11.9	13.2			34.638	-0.1182	69.01	0.17	16
129172	40	270	269.3	34.620	285.1	1.07	12.3	13.2			34.614	-0.1639	69.09	0.18	16
129173	40	260	259.0	34.590	284.0	1.09	13.1	13.4			34.595	-0.2216	68.97	0.19	16
129174	40	250	249.5	34.547	286.2	1.13	14.0	13.6	0.002	0.017	34.551	-0.3468	68.97	0.19	16
129175	40	250	249.5	34.549		1.13	14.0	13.2			34.540	-0.3649	68.89	0.19	16
129176	40	250	249.5	34.539							34.545	-0.3640	68.97	0.19	
129177	40	250	249.9	34.531							34.545	-0.3723	68.90	0.18	
129178	40	250	249.9	34.538							34.537	-0.3728	68.95	0.19	
129179	40	250	249.9	34.538		1.15	14.4	13.3			34.534	-0.3720	68.95	0.19	16
129180	40	250	249.9	34.538							34.536	-0.3736	68.93	0.19	
129181	40	250	249.9	34.538							34.536	-0.3756	68.96	0.19	
129182	40	250	249.9	34.538							34.535	-0.3748	68.94	0.19	
129183	40	210	209.5	34.265		1.42	22.2	14.1			34.218	-0.7855	68.71	0.21	16
129184	40	210	209.5	34.243							34.224	-0.7855	68.71	0.21	
129185	40	210	209.5	34.257							34.221	-0.7855	68.67	0.20	
129186	40	210	209.5	34.236							34.218	-0.7900	68.64	0.21	
129187	40	120	120.3	32.794		1.88	31.7	12.8			32.796	-1.4511	68.24	0.24	16

Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
42	72.962	144.891	8/21/95	20:50	1200	3370

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129189	42	1000	1000.4	34.884	310.4	0.99	7.7	12.8			34.884	0.0232	68.59	0.15	16
129190	42	900	897.9	34.877	307.9	0.98	7.6	12.8			34.876	0.1265	68.68	0.15	16
129191	42	800	799.7	34.870	307.1	0.98	7.6	12.7			34.869	0.2302	67.39	0.18	16
129192	42	700	700.2	34.861	306.9	0.97	7.6	12.7			34.860	0.3291	68.86	0.16	16
129193	42	600	599.9	34.849	306.3	1.00	7.6	12.7			34.848	0.3996	68.94	0.16	16
129194	42	500	549.7	34.839	307.1	0.96	7.5	12.5			34.838	0.4206	68.83	0.15	16
129195	42	500	499.3	34.826	304.3	0.95	7.5	12.5			34.827	0.4374	68.69	0.16	16
129196	42	500	500.5	34.831		0.97	7.5	12.4			34.827	0.4375	68.77	0.16	16
129197	42	500	500.9	34.828							34.828	0.4377	68.64	0.16	
129198	42	500	501.2	34.829							34.828	0.4376	68.73	0.16	
129199	42	500	501.4	34.828		0.96	7.5	12.3			34.827	0.4373	68.73	0.16	16
129200	42	500	499.6	34.828							34.827	0.4370	68.72	0.16	
129201	42	500	499.7	34.829		0.96	7.6	12.4			34.827	0.4371	68.70	0.16	16
129202	42	500	499.9	34.828							34.827	0.4372	68.72	0.16	
129203	42	500	500.1	34.828		0.96	7.6	12.4			34.828	0.4376	68.76	0.16	16
129204	42	500	500.2	34.829							34.828	0.4374	68.67	0.16	
129205	42	500	500.3	34.828		0.97	7.6	12.4			34.827	0.4373	68.75	0.16	16
129206	42	500	500.4	34.829							34.827	0.4377	68.72	0.16	
129207	42	500	500.4	34.829		0.97	7.6	12.3			34.827	0.4373	68.76	0.16	16
129208	42	500	500.5	34.828							34.827	0.4369	68.77	0.16	
129209	42	450	448.8	34.813	304.0	0.99	7.8	12.4			34.812	0.4308	68.92	0.16	16
129210	42	400	400.5	34.794	303.4	1.00	8.0	12.3			34.794	0.4062	68.76	0.16	16

Cruise : 9526  
Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
44	72.751	144.337	8/22/95	14:25	3499	3451

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129212	44	3400	3465.4	34.954	290.5	1.15	14.3	14.9			34.954	-0.2951			16
129213	44	3350	3406.3	34.956	290.3	1.15	14.3	14.9			34.954	-0.3005			16
129214	44	3300	3355.0	34.956	290.6	1.13	14.1	15.3			34.954	-0.3049			16
129215	44	3250	3304.7	34.951		1.14	14.4	15.0			34.954	-0.3093			15, 16
129216	44	3200	3254.0	34.954	290.6	1.14	14.6	14.9			34.953	-0.3141			16
129217	44	3150	3202.4	34.946	290.4	1.14	14.4	15.0			34.954	-0.3188			16
129218	44	3100	3152.1	34.953	289.9	1.13	14.4	14.8			34.953	-0.3232			16
129219	44	3000	3048.9	34.953	291.1	1.14	14.3	15.1			34.954	-0.3323			16
129220	44	2900	2947.3	34.953	290.7	1.13	14.2	15.3			34.954	-0.3407			16
129221	44	2800	2843.1	34.952	290.1	1.15	14.3	15.2			34.954	-0.3500			16
129222	44	2700	2743.0	34.951	293.1	1.13	13.5	15.0			34.952	-0.3643			16
129223	44	2600	2641.6	34.948	293.8	1.13	13.0	15.1			34.951	-0.3761			16
129224	44	2500	2496.8	34.941	294.5	1.13	12.9	14.7			34.949	-0.3877			16
129225	44	2500	2496.9	34.947		1.13	12.8	14.9			34.949	-0.3875			16
129226	44	2500	2496.8	34.947		1.12	13.1	14.6			34.949	-0.3877			16
129227	44	2400	2398.9	34.946	295.3	1.12	12.8	14.6			34.947	-0.3947			16
129228	44	2300	2297.7	34.943	296.8	1.11	12.5	14.5			34.946	-0.4012			16
129229	44	2200	2196.4	34.939	297.6	1.11	12.1	14.5			34.943	-0.4058			16
129230	44	2100	2097.3	34.938	299.1	1.11	11.8	14.5			34.940	-0.4075			16
129231	44	2000	1997.7	34.936	300.7	1.10	11.4	14.2			34.937	-0.4050			16
129232	44	1900	1897.6	34.930	302.2	1.10	10.8	13.9			34.933	-0.3948			16
129233	44	1800	1797.6	34.926	303.9						34.928	-0.3776			16

Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
47	72.670	144.430	8/22/95	21:00	3473	3423

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129234	47	3469	3467.0												
129235	47	3469	3467.0								34.954	-0.2937			
129236	47	3469	3467.1	34.953		1.13	14.5	14.3			34.953	-0.2938			
129237	47	3469	3467.1								34.954	-0.2940			16
129238	47	3469	3467.2	34.952							34.954	-0.2942			
129239	47	3470	3467.2	34.954		1.11	14.6	14.2			34.954	-0.2943			
129240	47	3470	3467.2								34.954	-0.2945			16
129241	47	3470	3467.3	34.953		1.11	14.4	14.2			34.954	-0.2945			
129242	47	3470	3467.3	34.953							34.954	-0.2946			16
129243	47	3000	2997.0	34.952		1.12	14.6	14.2			34.954	-0.2946			
129244	47	3000	2997.0	34.957							34.953	-0.3361			16
129245	47	3000	2997.0	34.954		1.11	14.7	14.3			34.953	-0.3364			
129246	47	3000	2997.1	34.953							34.954	-0.3365			16
129247	47	3000	2997.1	34.955		1.12	14.6	14.3			34.954	-0.3364			
129248	47	3000	2997.0	34.954							34.954	-0.3365			16
129249	47	3000	2997.1								34.953	-0.3365			
129250	47	3000	2997.2	34.951							34.954	-0.3365			
129251	47	2500	2497.6	34.948		1.12	13.1	14.2			34.954	-0.3364			
129252	47	2500	2497.7	34.948							34.948	-0.3876			16
129253	47	2500	2497.7	34.950		1.11	13.1	14.0			34.948	-0.3873			
129254	47	2500	2497.7	34.949							34.948	-0.3872			16
129255	47	2500	2497.8	34.936							34.949	-0.3877			
129256	47	2000	1997.3								34.937	-0.4069			

Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
50	72.686	144.697	8/23/95	14:25	3529	3428

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129257	50	3400	3393.1	34.954		1.10	14.4	14.3			34.952	-0.3007			16
129258	50	3400	3392.6								34.953	-0.3015			
129259	50	3400	3392.0								34.953	-0.3012			
129260	50	3400	3391.5								34.953	-0.3014			
129261	50	3400	3391.0								34.953	-0.3016			
129262	50	3400	3390.4								34.953	-0.3019			
129263	50	3400	3389.6								34.952	-0.3013			
129264	50	3400	3389.1								34.953	-0.3019			
129265	50	3400	3388.7								34.953	-0.3018			
129266	50	3400	3388.3	34.955		1.11	14.3	14.3			34.953	-0.3015			16
129267	50	3400	3388.0	34.953							34.953	-0.3017			
129268	50	3400	3387.6	34.954							34.953	-0.3015			
129269	50	3000	2996.1	34.954		1.10	14.5	14.3			34.953	-0.3369			16
129270	50	3000	2995.9								34.954	-0.3369			
129271	50	3000	2995.4	34.954							34.953	-0.3369			
129272	50	2000	1997.7	34.937		1.06	11.5	13.8			34.937	-0.4076			16
129273	50	2000	1997.9	34.937							34.937	-0.4076			
129274	50	1500	1497.8	34.912		1.01	9.3	13.0			34.912	-0.2843			16
129275	50	1500	1498.3	34.914							34.912	-0.2845			
129276	50	1500	1498.8	34.913							34.912	-0.2844			
129277	50	1500	1499.1	34.913		1.01	9.3	12.9			34.912	-0.2846			16
129278	50	1500	1499.3	34.913							34.913	-0.2851			
129279	50	1500	1499.5	34.910							34.912	-0.2849			



Cruise : 9526  
 Station : AR09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
53	72.621	144.729	8/23/95	20:04	1701	3396

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129280	53	1700	1700.9	34.923	303.6	1.04	10.2	13.4			34.923	-0.3621	67.52	0.14	16
129281	53	1700	1701.0		306.6						34.924	-0.3623	67.61	0.14	16
129282	53	1600	1597.7	34.921	306.6	1.02	9.7	13.2			34.918	-0.3329	67.33	0.15	16
129283	53	1600	1598.1		307.3						34.917	-0.3325	67.39	0.15	16
129284	53	1500	1498.6	34.912	308.1	1.01	9.3	13.0			34.912	-0.2954	67.37	0.15	16
129285	53	1500	1499.1								34.912	-0.2951	67.44	0.15	16
129286	53	1500	1499.4	34.912		1.01	9.6	13.2			34.912	-0.2956	67.43	0.14	16
129287	53	1500	1499.7	34.913							34.912	-0.2954	67.40	0.15	16
129288	53	1500	1500.0	34.912		1.02	9.3	13.0			34.912	-0.2954	67.39	0.14	16
129289	53	1500	1500.3	34.913							34.912	-0.2952	67.33	0.15	16
129290	53	1500	1500.6	34.914		1.01	9.2	13.0			34.912	-0.2955	67.38	0.14	16
129291	53	1500	1500.8	34.912							34.912	-0.2956	67.37	0.14	16
129292	53	1500	1501.2	34.913		1.02	9.4	13.1			34.912	-0.2961	67.45	0.14	16
129293	53	1500	1501.5	34.914							34.912	-0.2958	67.43	0.14	16
129294	53	1400	1398.8	34.907	307.3	1.00	8.9	12.9			34.906	-0.2509	67.43	0.15	16
129295	53	1400	1399.2	34.908							34.906	-0.2509	67.46	0.15	16
129296	53	1200	1199.1	34.896	307.7	0.97	8.3	12.7			34.894	-0.1345	67.57	0.15	16
129297	53	1200	1199.7	34.896							34.895	-0.1348	67.58	0.15	16
129298	53	900	899.5	34.879		0.96	7.7	12.4			34.877	0.1203	67.84	0.15	16
129299	53	900	900.0	34.878							34.877	0.1206	67.90	0.15	
129300	53	900	900.4								34.876	0.1214	67.91	0.15	
129301	53	900	900.8								34.877	0.1222	67.86	0.15	
129302	53	900	901.2	34.880							34.877	0.1227	67.89	0.15	

Cruise : 9526  
Station : AR08

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
55	71.873	141.666	8/24/95	15:30	402	2791

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129303	55	400	402.1	34.793	298.1	0.98	7.9	12.5			34.794	0.4183		0.16	16
129304	55	350	350.0	34.757	296.3	1.01	8.9	12.6			34.757	0.2881		0.16	16
129305	55	300	299.9	34.689	288.8	1.05	10.8	13.0			34.683	0.0406		0.17	16
129306	55	260	258.9	34.469	279.0	1.16	14.1	13.2			34.595	-0.3056		0.17	16
129307	55	250	248.9	34.526	276.7	1.19	15.4	13.4			34.512	-0.4035		0.18	16
129308	55	240	238.6	34.468	275.0	1.25	16.8	13.6			34.480	-0.4844		0.18	16
129309	55	220	219.1	34.322	272.1	1.41	20.6	14.4			34.309	-0.6723		0.19	16
129310	55	200	198.5	34.028	273.1	1.62	26.2	15.2	0.003	0.012	34.007	-0.9708		0.21	16
129311	55	180	178.6	33.598	280.8	1.83	31.3	15.5			33.601	-1.2558		0.21	16
129312	55	160	159.6	33.268	284.8	1.94	33.1	15.3			33.285	-1.4083		0.21	16
129313	55	150	149.5	33.121	291.0	1.95	33.3	14.9	0.006	0.011	33.125	-1.4457		0.22	16
129314	55	140	138.4	32.961	291.7	1.97	32.5	14.6			32.945	-1.4617		0.22	16
129315	55	125	125.3	32.778	298.7	1.91	30.0	13.5			32.782	-1.4558		0.22	16
129316	55	100	99.7	32.570	305.3	1.86	26.9	12.5	0.022	0.013	32.568	-1.3993		0.23	16
129317	55	80	80.6	32.310	322.8	1.70	21.6	10.1			32.311	-1.3169		0.26	16
129318	55	70	70.1	32.124	343.2	1.53	17.3	7.9	0.280	0.210	32.096	-1.2984		0.43	16
129319	55	60	59.5	31.823	375.1	1.28	10.4	4.0			31.874	-1.3604		0.74	16
129320	55	50	50.3	31.420	405.1	1.00	4.6	0.3	0.127	0.074	31.477	-1.3098		0.91	16
129321	55	40	40.4	31.051	411.5	0.89	3.9	-0.1	0.107	0.088	31.086	-1.2376		0.57	16
129322	55	30	29.8	30.771	416.8	0.88	4.3	-0.1	0.113	0.073	30.832	-1.0959		0.46	16
129323	55	20	20.2	29.880	402.6	0.85	3.8	0.0	0.043	0.024	29.988	-0.8338		0.30	16
129324	55	10	10.6								27.433	1.7824		0.33	
129325	55	0	0.5	23.876	340.0	0.48	8.0	-0.1	0.081	0.028	23.646	6.3618		0.40	16

Cruise : 9526  
Station : AR08

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
57	71.848	141.605	8/24/95	18:40	2806	2763

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129326	57	2800	2803.3	34.950	289.6	1.15	14.8	16.3			34.954	-0.3511		0.13	16
129327	57	2800	2803.2								34.954	-0.3509		0.14	
129328	57	2600	2597.8	34.953	290.7	1.14	14.7	15.7			34.953	-0.3705		0.14	16
129329	57	2600	2598.1								34.953	-0.3703		0.14	
129330	57	2500	2497.4	34.953	293.4	1.14	13.6	15.7			34.952	-0.3827		0.14	16
129331	57	2400	2398.2	34.948	294.4	1.13	13.0	15.3			34.949	-0.3904		0.13	16
129332	57	2200	2197.3								34.946	-0.4049		0.13	
129333	57	2200	2197.8	34.945	296.9	1.13	12.5	14.8			34.946	-0.4051		0.14	16
129334	57	2000	1997.8	34.938	299.4	1.12	11.8	14.4			34.940	-0.4112		0.14	16
129335	57	2000	1998.4								34.940	-0.4114		0.14	
129336	57	1800	1798.6	34.929	302.2	1.12	11.0	13.9			34.932	-0.3969		0.14	16
129337	57	1800	1799.0								34.931	-0.3971		0.14	
129338	57	1600	1599.2	34.914	305.1	1.09	9.6	13.7			34.919	-0.3460		0.15	16
129339	57	1500	1498.8	34.910	306.8	1.08	9.2	13.3			34.914	-0.3113		0.15	16
129340	57	1400	1399.1	34.906	308.0	1.06	8.6	13.2			34.908	-0.2667		0.14	16
129341	57	1200	1198.3	34.894	308.4	1.04	8.0	12.8			34.895	-0.1439		0.15	16
129342	57	1000	998.6	34.882	308.5	1.02	7.5	12.6			34.883	0.0158		0.15	16
129343	57	800	799.4	34.864	307.2	1.01	7.5	12.7			34.870	0.2177		0.15	16
129344	57	600	599.8	34.845	303.9	1.00	7.5	12.7			34.849	0.3944		0.15	16
129345	57	550	549.2	34.845	304.0	1.00	7.6	12.4			34.839	0.4159		0.15	16
129346	57	500	499.6	34.828	302.8	1.00	7.6	12.3			34.830	0.4411		0.16	16
129347	57	450	449.7	34.809	302.0	1.00	7.8	12.0			34.815	0.4473		0.16	16
129348	57	10	10.2	29.200	393.1	0.83	3.4	0.0			29.164	-0.3326		0.26	16

Cruise : 9526  
 Station : AR07

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
59	71.206	139.339	8/24/95	1:25	2030	1997

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129349	59	2031	2029.3	34.946	289.7	1.15	14.5	14.6			34.950	-0.4095		0.14	16
129350	59	1750	1747.9	34.931	301.1	1.10	11.2	14.0			34.932	-0.3971		0.14	16
129351	59	1500	1498.0	34.917	309.6	1.05	9.2	13.3			34.915	-0.3153		0.14	16
129352	59	1250	1248.6	34.897	308.4	1.01	8.3	12.9			34.899	-0.1764		0.15	16
129353	59	1000	998.9	34.881	305.9	0.99	7.7	12.7			34.884	0.0282		0.15	16
129354	59	750	749.5	34.863	304.7	0.98	7.6	12.6			34.866	0.2775		0.15	16
129355	59	500	499.4	34.828	301.8	0.97	7.5	12.5			34.829	0.4240		0.15	16
129356	59	400	399.4	34.793	301.7	0.97	7.7	12.2			34.797	0.4205		0.16	16
129357	59	350	348.1	34.765	298.2	0.97	8.5	12.4			34.768	0.3515		0.16	16
129358	59	300	299.9	34.699	290.0	1.01	10.2	12.4			34.707	0.1329		0.17	16
129359	59	250	250.1	34.586	281.6	1.11	13.3	12.8			34.587	-0.2538		0.17	16
129360	59	220	220.3	34.448	273.2	1.29	17.4	14.1			34.449	-0.4986		0.18	16
129361	59	200	200.4	34.299	272.4	1.41	20.8	14.5	0.002	0.016	34.286	-0.7173		0.20	16
129362	59	180	180.8	33.968	276.4	1.66	26.9	15.4			33.975	-0.9540		0.20	16
129363	59	160	160.4	33.544	274.2	1.91	33.0	16.4			33.593	-1.2419		0.21	16
129364	59	150	150.8	33.357	280.9	1.94	33.0	15.9	0.002	0.008	33.358	-1.3571		0.22	16
129365	59	100	100.8	32.678	302.9	1.87	29.8	13.1	0.003	0.008	32.704	-1.4329		0.23	16
129366	59	70	70.8	32.313	323.7	1.68	24.1	10.3	0.019	0.019	32.322	-1.3421		0.26	16
129367	59	50	51.0	31.848	357.8	1.39	16.7	6.6	0.045	0.022	31.955	-1.4117		0.30	16
129368	59	30	30.8	30.971	418.8	0.94	8.1	0.8	0.202	0.172	31.020	-1.4452		1.28	16
129369	59	20	21.0	30.573	421.8	0.85	6.7	0.0	0.093	0.122	30.667	-1.2918		1.01	16
129370	59	10	10.7	29.673	432.5	0.80	7.2	-0.1	0.040	0.030	29.683	-0.9704		0.30	16
129371	59	0	-0.4	28.047	377.9	0.70	4.5	-0.1	0.052	0.030	28.665	1.9284		0.36	16

Cruise : 9526  
Station : AR06

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
61	70.608	137.368	8/25/95	14:45	1233	1235

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129372	61	1200	1232.3	34.904	304.8	1.06	9.8	12.4			34.905	-0.2349	66.33	0.16	16
129373	61	1000	997.8	34.884	305.9	1.02	7.9	12.2			34.884	0.0095	67.12	0.15	16
129374	61	750	749.5	34.865	304.7	1.00	7.7	12.4			34.865	0.2579	66.93	0.16	16
129375	61	500	498.9	34.823	303.4	0.99	7.5	12.9			34.824	0.4370	67.86	0.16	16
129376	61	400	399.8	34.786	299.6	0.99	7.9	12.9			34.786	0.3975	68.00	0.16	16
129377	61	350	349.7	34.747	296.1	1.02	9.0	13.0			34.749	0.2950	68.17	0.18	16
129378	61	300	299.8	34.676	289.8	1.07	11.1	12.9			34.676	0.0664	68.51	0.17	16
129379	61	260	259.1	34.572	282.0	1.13	13.4	13.1			34.576	-0.2534	68.96	0.19	16
129380	61	240	239.1	34.490	278.0	1.21	15.3	13.3			34.500	-0.4255	68.86	0.19	16
129381	61	220	219.6	34.361	274.2	1.33	18.7	14.0			34.374	-0.6258	68.85	0.19	16
129382	61	200	199.8	34.124	272.9	1.55	23.7	14.7	0.002	0.006	34.125	-0.8579	68.45	0.21	16
129383	61	180	179.4	33.666	277.7	1.80	30.0	15.5			33.688	-1.1731	68.30	0.23	16
129384	61	160	160.3	33.260	288.5	1.90	33.6	15.0			33.270	-1.4123	68.97	0.23	16
129385	61	140	139.5	33.025	294.2	1.93	33.4	14.4			33.040	-1.4812	68.26	0.24	16
129386	61	120	120.6	32.847	300.6	1.90	31.7	13.6			32.856	-1.4774	68.62	0.24	16
129387	61	100	100.5	32.631	306.7	1.84	30.1	11.4			32.637	-1.4312	68.52	0.22	16
129388	61	75	75.5	32.404	320.5	1.71	26.1	9.8	0.004	0.006	32.441	-1.4134	68.90	0.23	16
129389	61	50	50.0	31.831	362.7	1.33	11.9	4.1	0.044	0.025	31.957	-1.4146	68.03	0.35	16
129390	61	40	40.4	31.403	396.2	0.99	5.5	0.5	0.211	0.139	31.573	-1.4468	67.02	0.53	16
129391	61	30	30.3	31.050	407.9	0.87	5.0	0.0	0.158	0.122	31.128	-1.3739	63.86	1.17	16
129392	61	20	25.7	30.803	409.8	0.86	4.5	0.0	0.059	0.034	30.996	-1.2125	65.85	1.08	16
129393	61	10	15.3	29.779	401.3	0.80	4.2	-0.1	0.039	0.041	30.342	-0.7249	66.57	0.40	16
129394	61	0	7.5	29.171	416.7	0.74	4.9	-0.1	0.045	0.050	29.656	-0.8934	65.48	0.37	16

Cruise : 9526  
Station : AR05

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
63	70.480	136.917	8/25/95	21:30	303	664

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123257	63	300	302.3	34.587		1.15	14.8	12.6			34.587	-0.1920	66.84	0.18	16
123258	63	300	302.2	34.588							34.586	-0.1922	66.99	0.19	
123259	63	300	302.4	34.585							34.587	-0.1920	66.76	0.18	
123260	63	300	302.5	34.586							34.586	-0.1922	66.80	0.18	
123261	63	300	302.3	34.586							34.586	-0.1932	66.90	0.19	
123262	63	150	151.0	32.859		1.92	32.8	13.0			32.863	-1.4825	64.01	0.25	16
123263	63	150	151.1								32.857	-1.4833	64.11	0.25	
123264	63	150	150.7	32.855		1.92	32.8	13.2			32.854	-1.4841	64.06	0.25	16
123265	63	150	151.1	32.849							32.853	-1.4860	64.20	0.24	
123266	63	150	150.6	32.860							32.852	-1.4871	64.34	0.26	
123267	63	150	150.9	32.851							32.852	-1.4883	64.44	0.24	
123268	63	100	101.1	32.632		1.87	30.8	11.7			32.623	-1.4391	64.51	0.24	16
123269	63	100	101.5								32.617	-1.4384	64.55	0.24	12
123270	63	100	101.5	32.613		1.85	30.0	12.1			32.615	-1.4363	64.45	0.24	16
123271	63	100	102.0	32.622		1.83	30.5	11.7			32.617	-1.4397	64.17	0.24	16
123272	63	100	101.9	32.612							32.619	-1.4416	64.11	0.25	
123273	63	100	102.0	32.611							32.618	-1.4415	64.03	0.24	
123274	63	100	102.0	32.613							32.618	-1.4428	64.03	0.25	
123275	63	100	102.1	32.613							32.618	-1.4423	63.95	0.24	
123276	63	100	102.0	32.613							32.618	-1.4418	64.05	0.24	
123277	63	100	102.3	32.616							32.620	-1.4423	63.97	0.25	
123278	63	80	81.9	32.484							32.517	-1.4148	65.18	0.24	
123279	63	80	81.7	32.448							32.481	-1.4039	65.21	0.25	

Cruise : 9526  
 Station : AR05

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
65	70.484	136.978	8/26/95	14:30	245	770

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123280	65	240	241.9	33.866	276.3	1.65	29.4	14.2			33.866	-1.0521	65.74	0.21	16
123281	65	230	230.1	33.675	280.6	1.74	31.4	14.3			33.665	-1.1822	65.46	0.21	16
123282	65	220	219.7	33.273	288.2	1.86	34.4	13.9			33.273	-1.4000	63.65	0.23	16
123283	65	210	210.7	33.191	291.7	1.88	34.6	13.7			33.195	-1.4214	63.29	0.24	16
123284	65	200	200.1	33.083	293.8	1.88	34.3	13.5	0.011	0.013	33.092	-1.4557	63.15	0.23	16
123285	65	190	190.5	33.036	294.8	1.90	34.5	13.3			33.040	-1.4659	63.20	0.24	16
123286	65	180	179.7	32.884	300.0	1.88	34.0	12.8			32.895	-1.4832	62.83	0.24	16
123287	65	170	170.0	32.837	299.9	1.88	33.3	12.6			32.850	-1.4787	62.19	0.26	16
123288	65	160	159.9	32.779	301.8	1.86	32.8	12.3			32.788	-1.4759	61.64	0.25	16
123289	65	150	149.4	32.726		1.85	31.9	12.0	0.016	0.018	32.741	-1.4657	61.10	0.26	16
123290	65	150	149.6	32.730		1.85	32.0	12.1			32.733	-1.4638	61.03	0.27	16
123291	65	140	139.4	32.666	305.8	1.84	31.0	11.7			32.698	-1.4541	60.51	0.27	16
123292	65	130	127.4	32.597	308.1	1.81	30.4	11.3			32.610	-1.4364	59.71	0.27	16
123293	65	120	119.8	32.564	310.1	1.81	29.8	11.1			32.570	-1.4290	59.99	0.27	16
123294	65	110	110.4	32.527	318.8	1.78					32.532	-1.4211	61.13	0.28	16
123295	65	100	101.3	32.470	314.7	1.74	28.3	10.4	0.064	0.049	32.471	-1.4084	57.82	0.33	16
123296	65	90	90.5	32.461	319.8	1.73	28.3	10.4			32.463	-1.4067	57.66	0.33	16
123297	65	70	69.8	32.401	316.7	1.66	26.1	9.5	0.158	0.067	32.405	-1.3924	54.13	0.43	16
123298	65	50	50.7	32.340	320.2	1.63	25.3	9.0	0.161	0.064	32.352	-1.3811	56.00	0.45	16
123299	65	30	30.5	31.187	397.8	1.03	10.6	2.1	0.300	0.160	31.196	-1.4610	63.75	0.90	16
123300	65	20	20.4	30.487	425.7	0.82	6.4	0.1	0.163	0.129	30.682	-1.2499	63.14	1.01	16
123314	65	10	10.4								29.608	-0.5774	64.63	0.34	16
123315	65	0	1.5	24.590	347.3	0.42	7.2	0.0	0.133	0.055	24.869	5.5410	58.32	0.56	16

U.S.L

Cruise : 9526  
Station : AR05

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
67	70.481	136.967	8/26/95	17:10	769	766

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123316	67	769	768.3	34.874	304.2	1.00	7.9	13.9			34.876	0.1042	63.24	0.16	16
123317	67	600	600.0	34.840	301.7	0.97	7.8	13.7			34.841	0.4059	67.03	0.17	16
123318	67	500	499.1	34.824	302.5	0.96	7.5	13.5			34.824	0.4331	68.31	0.16	16
123319	67	500	499.4	34.823		0.96	7.4	13.8			34.824	0.4335	68.36	0.17	16
123320	67	500	499.7	34.823							34.824	0.4337	68.43	0.16	
123321	67	500	500.0	34.819							34.824	0.4337	68.45	0.16	
123322	67	500	500.2	34.823							34.823	0.4339	68.40	0.16	
123323	67	450	449.6	34.802	301.4	0.96	7.5	13.8			34.804	0.4294	68.59	0.16	16
123324	67	400	399.4	34.764	298.3	0.98	8.3	13.8			34.773	0.3635	68.74	0.16	16
123325	67	350	346.6	34.711	291.9	1.00	9.7	13.9			34.720	0.2045	68.81	0.17	16
123326	67	300	299.1	34.592	277.9	1.11	13.5	14.1			34.605	-0.1308	68.42	0.18	16
123327	67	275	274.7	34.460	273.8	1.21	16.6	14.4			34.459	-0.4983	68.61	0.19	16
123328	67	260	258.2	34.302	272.6	1.35	20.1	14.9			34.355	-0.6277	68.37	0.20	16
123329	67	250	247.6	34.030	272.7	1.57	25.6	15.6			34.071	-0.9079	68.16	0.21	16
123330	67	250	247.5	34.039		1.58	25.6	15.4			34.055	-0.9116	68.12	0.21	16
123331	67	250	248.0	34.052							34.050	-0.9110	68.14	0.21	
123332	67	250	248.5	34.056							34.066	-0.9015	68.23	0.22	
123333	67	250	248.9	34.070							34.080	-0.8791	68.27	0.21	
123334	67	250	249.4	34.075		1.55	25.0	15.1			34.102	-0.8674	68.33	0.21	16
123335	67	250	249.9	34.088							34.112	-0.8551	68.36	0.21	
123336	67	250	250.3	34.091							34.125	-0.8535	68.27	0.22	
123337	67	250	250.9	34.111							34.140	-0.8364	68.37	0.22	
123338	67	10	9.9	29.860		0.82	4.1	0.0			30.006	-0.8551	67.33	0.30	16



Cruise : 9526  
 Station : AR05

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
69	70.515	136.988	8/26/95	23:54	778	771

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
123339	69	771	770.8	34.860		0.96	8.3	12.7			34.857	0.3111	66.05	0.16	9.16
123340	69	771	771.5	34.860							34.857	0.3170	66.21	0.16	9
123341	69	771	772.0	34.856							34.858	0.3134	66.22	0.16	9
123342	69	771	772.3	34.855							34.857	0.3042	66.15	0.16	9
123343	69	771	772.5	34.858		0.96	8.2	12.4			34.859	0.3059	66.17	0.16	9.16
123344	69	771	772.8	34.857							34.858	0.3092	66.22	0.16	9
123345	69	771	773.1	34.857							34.866	0.2894	66.31	0.16	9
123346	69	771	773.3	34.858							34.868	0.2800	66.29	0.16	9
123347	69	771	773.5	34.860							34.865	0.2534	66.34	0.16	9
123348	69	771	773.7	34.865							34.858	0.2487	66.22	0.16	9
123349	69	771	773.8	34.866							34.868	0.2423	65.79	0.16	9
123350	69	771	773.9	34.865							34.865	0.2491	66.09	0.17	9
123351	69	771	774.0	34.862							34.866	0.2465	66.28	0.16	9
123352	69	500	499.4	34.815		0.96	7.9	12.2			34.816	0.4379	67.52	0.16	16
123353	69	500	499.8	34.813							34.815	0.4380	67.52	0.16	
123354	69	500	499.7	34.814							34.815	0.4380	67.54	0.16	
123355	69	500	500.0	34.815							34.816	0.4379	67.57	0.16	
123356	69	500	500.0	34.813							34.816	0.4379	67.58	0.16	
123357	69	500	499.8	34.814							34.815	0.4379	67.46	0.16	
123358	69	500	499.7	34.817							34.815	0.4380	67.53	0.16	
123359	69	500	499.9	34.816							34.815	0.4379	67.59	0.16	
123360	69	250	249.5	34.349		1.31	20.8	13.3			34.363	-0.6294	68.45	0.21	16
123361	69	250	248.7	34.329							34.351	-0.6454	68.31	0.20	

691

Cruise : 9526  
 Station : AR04

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
71	70.500	135.848	8/27/95	2:05	518	525

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123362	71	500	517.0	34.826	300.0	0.99	8.6	12.5			34.828	0.4197	63.91	0.18	16
123363	71	500	517.5	34.829							34.827	0.4190	63.84	0.17	
123364	71	450	450.0	34.807	298.8	0.98	8.5	12.4			34.807	0.4250	65.39	0.17	16
123365	71	400	399.6	34.788	296.3	0.99	9.1	12.4			34.789	0.4001	64.30	0.17	16
123366	71	350	349.7	34.763	291.3	1.02	10.4	12.5			34.764	0.3466	63.36	0.17	16
123367	71	300	299.6	34.667	283.4	1.07	12.6	12.5			34.665	0.0448	66.89	0.18	16
123368	71	300	300.0								34.665	0.0429	66.98	0.18	
123369	71	250	248.6	34.357	269.7	1.33	20.6	13.3			34.365	-0.6185	67.16	0.20	16
123370	71	200	199.5	33.454	283.2	1.81	32.5	14.5	0.007	0.013	33.452	-1.2849	64.64	0.24	16
123371	71	200	199.7								33.437	-1.3073	64.84	0.23	
123372	71	150	149.1	32.857	305.4	1.89	34.0	13.1	0.011	0.026	32.867	-1.4807	63.90	0.25	16
123373	71	100	100.2		333.5	1.74	31.2	10.2	0.014	0.025	32.470	-1.2795	64.95	0.27	16
123374	71	100	101.1								32.472	-1.2805	64.92	0.27	
123375	71	75	75.1	32.222	333.3	1.63	25.0	9.3	0.046	0.045	32.258	-1.3179	64.55	0.29	16
123376	71	50	51.0	31.894	347.7	1.42	19.4	6.8	0.140	0.103	31.946	-1.2160	64.50	0.41	16
123377	71	50	50.8								31.881	-1.2464	64.89	0.47	
123378	71	40	40.6	31.515	377.4	1.19	12.5	3.8	0.197	0.169	31.542	-1.3546	64.50	0.64	16
123379	71	30	30.7	30.928	409.5	0.87	5.3	0.1	0.364	0.203	31.070	-1.3903	63.89	0.89	16
123380	71	20	21.2	30.631	436.2	0.84	7.2	0.1	0.258	0.198	30.799	-1.2682	63.38	0.98	16
123381	71	10	11.8	29.683	427.2	0.76	6.0	0.0	0.074	0.054	30.113	-0.9249	63.87	0.67	16
123382	71	10	10.5								29.749	-0.7818	64.58	0.43	
123383	71	0	1.0	25.202	360.5	0.47	7.2	0.1	0.075	0.041	25.432	3.9737	59.00	0.61	16
123384	71	0	1.0								25.432	3.9737	59.68	0.58	

Cruise : 9526  
 Station : AR03

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
73	70.376	137.346	8/29/95	14:20	287	322

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
123385	73	322	286.6	34.735	288.9	1.03	11.8	12.5			34.590	0.4076	63.55	0.17	16
123386	73	300	276.4	34.699		1.05	12.4	12.4			34.707	0.1608	62.49	0.18	16
123387	73	300	276.6	34.699							34.702	0.1548	62.59	0.18	
123388	73	300	276.5	34.691		1.05	12.5	12.6			34.699	0.1491	62.53	0.18	16
123389	73	300	276.9	34.691							34.693	0.1314	62.53	0.19	
123390	73	300	276.8	34.692							34.694	0.1347	62.45	0.19	
123391	73	300	276.8	34.694							34.683	0.1867	62.96	0.18	
123392	73	250	249.7	34.638	279.0	1.10	13.5	12.5			34.649	-0.0258	62.03	0.19	16
123393	73	200	199.6		287.7	1.93	32.2	13.9	0.009	0.017	33.298	-1.3840	65.23	0.24	16
123394	73	200	199.5	33.289		1.85	32.5	13.9			33.300	-1.3793	65.29	0.23	16
123395	73	200	199.8	33.289							33.292	-1.3841	65.16	0.25	
123396	73	150	149.6	32.610	312.0	1.80	29.4	11.5	0.044	0.037	32.627	-1.4356	60.69	0.29	16
123397	73	100	99.5	32.345	328.7	1.67	27.2	9.9	0.063	0.063	32.357	-1.3451	61.96	0.34	16
123398	73	100	99.5	32.342		1.67	27.0	9.8			32.348	-1.3434	62.00	0.33	16
123399	73	100	99.7	32.343							32.345	-1.3413	62.06	0.33	
123400	73	75	74.9	32.205	333.0	1.59	24.3	9.0	0.108	0.081	32.198	-1.2900	62.63	0.39	16
123401	73	50	49.7	31.819	359.9	1.35	16.9	5.6	0.151	0.128	31.796	-1.1141	65.22	0.63	16
123402	73	50	49.8	31.800		1.34	17.1	5.7			31.797	-1.1105	65.29	0.50	16
123403	73	50	49.9	31.795							31.798	-1.1071	65.24	0.49	
123404	73	30	30.1	31.083	410.6	1.01	9.3	1.4	0.258	0.286	31.104	-1.4413	64.21	0.79	16
123405	73	20	20.6	30.684	425.1	0.86	7.8	0.2	0.275	0.188	30.704	-1.3145	62.86	1.07	16
123406	73	10	8.6	29.521	428.6	0.72	5.2	0.0	0.119	0.065	29.609	-0.5063	64.73	0.50	16
123407	73	0	1.8	24.472	351.6	0.41	6.5	0.0	0.110	0.052	25.679	3.8223	60.33	0.53	16

Cruise : 9526  
Station : AR02

Cast #	Lat deg N	Long deg W	Date dd/mmm/yy	Time UTC	Cast Depth	Bottom Depth
75	70.336	137.196	8/29/95	23:59	90	100

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123408	75	88	89.5			1.53	20.3	7.2			32.237	-1.4133	54.11	0.60	16
123409	75	88	89.2								32.236	-1.4139	54.14	0.61	
123410	75	88	89.6								32.235	-1.4146	53.99	0.57	
123411	75	88	89.0	32.235	327.4	1.53	20.4	7.2	0.225	0.172	32.235	-1.4141	53.98	0.59	16
123412	75	88	89.2								32.236	-1.4148	54.04	0.58	
123413	75	80	78.4	32.229	328.0	1.52	20.6	7.3	0.239	0.155	32.231	-1.4141	54.45	0.58	16
123414	75	80	78.4								32.230	-1.4130	54.65	0.60	
123415	75	70	68.5	32.214	328.8	1.52	21.0	7.3	0.197	0.124	32.220	-1.4100	56.19	0.63	16
123416	75	70	68.6								32.218	-1.4092	56.13	0.59	
123417	75	60	58.9	32.110	339.6	1.50	21.4	7.7	0.152	0.084	32.106	-1.3245	64.50	0.54	16
123418	75	60	59.2								32.100	-1.3176	64.64	0.43	
123419	75	50	48.6	31.920	351.2	1.42	19.6	6.8	0.142	0.096	31.929	-1.2528	65.28	0.46	16
123420	75	50	49.1								31.889	-1.2969	65.17	0.51	
123421	75	40	39.3	31.568	380.1	1.19	13.0	3.8	0.171	0.143	31.621	-1.3833	65.03	0.59	16
123422	75	40	39.2								31.513	-1.4092	65.00	0.67	
123423	75	30	29.0	31.241	400.7	1.04	10.4	2.0			31.147	-1.4646	63.80	1.02	16
123424	75	30	29.2								31.131	-1.4615	63.70	0.99	
123425	75	20	19.6	30.743	432.7	0.86	8.3	0.1	0.294	0.308	30.862	-1.3298	63.41	0.93	16
123426	75	20	19.7								30.771	-1.2625	63.16	0.92	
123427	75	10	10.1	29.569	416.3	0.77	5.5	0.0	0.200	0.193	29.674	-0.6131	64.73	0.57	16
123428	75	10	10.2								29.601	-0.5337	64.63	0.54	

Cruise : 9526  
 Station : AR10

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
77	70.538	139.980	8/30/95	19:00	720	718

19T

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m^3	notes
123431	77	700	718.7	34.866	304.1	0.99	8.3	12.1			34.867	0.2332	63.99	0.16	16
123432	77	650	649.2	34.858	303.5	0.98	7.9	11.9			34.858	0.3279	65.10	0.16	16
123433	77	600	599.0	34.846	302.7	0.99	8.0	12.0			34.847	0.3754	65.12	0.17	16
123434	77	500	499.0	34.821	300.6	0.98	7.9	11.8			34.824	0.4317	65.87	0.17	16
123435	77	500	499.0								34.822	0.4344	65.91	0.17	
123436	77	400	398.7	34.788	301.9	0.98	8.2	11.7			34.788	0.4136	66.65	0.17	16
123437	77	350	349.0	34.750	300.1	1.00	9.2	11.7			34.756	0.3244	66.72	0.17	16
123438	77	300	299.1	34.682	296.3	1.05	11.0	12.0			34.700	0.0814	67.96	0.18	16
123439	77	250	250.0	34.559	280.1	1.14	14.5	12.3			34.561	-0.2949	68.15	0.18	16
123440	77	200	198.9	34.147	270.7	1.52	24.8	13.5	0.002	0.003	34.142	-0.8331	68.10	0.21	16
123441	77	150	148.9	33.175	291.5	1.92	34.7	13.1	0.004	0.006	33.184	-1.4494	67.80	0.23	16
123442	77	100	99.3	32.629	307.3	1.85	30.8	11.2	0.012	0.020	32.592	-1.4302	64.90	0.25	16
123443	77	100	99.3								32.585	-1.4263	64.95	0.25	
123444	77	70	69.7	32.313	324.7	1.68	26.5	9.2	0.036	0.040	32.359	-1.3739	64.87	0.27	16
123445	77	50	49.5	31.791	363.3	1.30	14.0	4.6	0.094	0.071	31.781	-1.2752	65.98	0.42	10, 16
123446	77	50	49.5				11.6				31.771	-1.3702	66.21	0.41	
123447	77	40	39.8	31.377	383.6	1.14	11.6	2.6	0.143	0.112	31.524	-1.4356	66.17	0.53	16
123448	77	30	30.1	31.003	411.7	0.94	8.1	0.7	0.122	0.131	30.911	-1.3919	65.00	0.86	16
123449	77	20	19.9	30.247	418.0	0.85	6.0	0.0	0.228	0.249	30.205	-1.1208	65.33	0.61	16
123450	77	10	10.3	29.552	428.5	0.77	5.5	-0.1	0.121	0.092	29.484	-0.6235	64.53	0.45	16
123451	77	10	10.2								29.335	-0.1704	63.85	0.53	
123452	77	0	0.4	24.165	337.4	0.46	8.0	0.0	0.076	0.038	24.603	4.6933	60.46	0.42	16
123453	77	0	0.5								24.412	4.8791	61.21	0.40	

Cruise : 9526  
Station : AR11

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
79	69.886	138.431	8/31/95	0:30	207	208

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123454	79	200	207.2	34.368		1.33	20.8	12.7			34.370	-0.5360	64.91	0.21	16
123455	79	200	207.2								34.369	-0.5338	64.57	0.21	
123456	79	200	207.2	34.367		1.33	20.8	12.7			34.374	-0.5308	64.81	0.21	16
123457	79	200	207.2	34.364	270.2	1.34	20.7	12.7	0.009	0.015	34.372	-0.5293	64.80	0.22	16
123458	79	200	207.2								34.372	-0.5297	64.57	0.21	
123459	79	175	175.1	32.945	293.2	1.91	34.0	12.9			33.161	-1.4225	65.36	0.26	16
123460	79	150	149.4		301.9	1.87	31.6	12.1			32.746	-1.4613	64.51	0.28	16,17
123461	79	125	125.8	32.473	314.0	1.71	26.8	9.9			32.443	-1.4158	62.41	0.31	16
123462	79	100	99.9	32.336	320.8	1.66	25.3	9.1	0.109	0.081	32.336	-1.3983	60.42	0.38	16
123463	79	100	99.9	32.327		1.67	25.6	9.2			32.322	-1.3903	60.57	0.37	16
123464	79	100	99.9								32.321	-1.3904	60.23	0.40	
123465	79	80	80.0	32.269	324.1	1.61	23.9	8.3			32.274	-1.3902	60.73	0.41	16
123466	79	70	70.4	32.241	325.4	1.58	22.7	7.7	0.179	0.123	32.249	-1.4114	57.84	0.52	16
123467	79	60	59.6	32.164	333.8	1.53	21.7	7.3			32.172	-1.4059	60.78	0.54	16
123468	79	50	50.3	31.876	352.6	1.41	18.3	6.2	0.137	0.111	31.892	-1.2818	64.74	0.49	16
123469	79	40	40.4	31.279	391.1	1.02	9.2	1.5			31.354	-1.3712	65.00	0.67	16
123470	79	30	30.6	30.874	416.4	0.83	5.8	-0.1	0.258	0.371	30.898	-1.2541	63.76	1.20	16
123471	79	25	25.4	30.622		0.76	5.0	-0.1			30.674	-1.0886	65.17	0.59	16
123472	79	25	25.5	30.610		0.76	4.9	-0.1			30.595	-1.0066	65.31	0.55	16
123473	79	20	20.3	30.196	413.4	0.77	4.3	0.0	0.066	0.067	30.271	-1.0380	65.23	0.49	16
123474	79	10	10.1	26.138		0.54	7.3	-0.1			27.801	1.3720	55.02	0.65	16
123475	79	10	10.2	24.799	361.3	0.45	7.9	-0.1	0.148	0.106	24.876	4.2478	57.22	0.66	16
123476	79	0	1.3	23.874	337.5	0.40	8.6	0.0	0.114	0.074	23.876	5.2653	58.76	0.63	16

Cruise : 9526  
 Station : AR11

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
81	69.895	138.434	8/31/95	2:05	212	211

89T

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
123477	81	200	202.3	34.345		1.35	21.2	12.8			34.341	-0.5695	64.90	0.22	16
123478	81	200	202.3								34.341	-0.5710	64.86	0.20	
123479	81	200	202.3	34.345		1.35	21.2	12.9			34.340	-0.5708	64.86	0.21	16
123480	81	200	202.3								34.340	-0.5707	64.96	0.22	
123481	81	200	202.3								34.340	-0.5709	64.72	0.21	
123482	81	200	202.2								34.339	-0.5705	64.83	0.22	
123483	81	200	202.2								34.339	-0.5708	64.85	0.21	
123484	81	200	202.3								34.339	-0.5708	64.87	0.21	
123485	81	200	202.2								34.339	-0.5702	64.93	0.22	
123486	81	200	202.2								34.339	-0.5706	64.83	0.23	
123487	81	200	202.2								34.338	-0.5687	64.81	0.22	
123488	81	200	202.2	34.350		1.34	21.1	12.8			34.338	-0.5687	64.81	0.21	16
123489	81	100	100.1	32.338		1.65	25.3	8.8			32.341	-1.4061	61.52	0.39	16
123490	81	100	100.1								32.336	-1.4052	61.34	0.42	
123491	81	100	100.2	32.337		1.66	25.2	8.9			32.336	-1.4041	61.21	0.40	16
123492	81	100	100.2								32.338	-1.4044	61.29	0.38	
123493	81	100	100.2								32.338	-1.4046	61.14	0.42	
123494	81	100	100.2								32.337	-1.4040	61.30	0.38	
123495	81	100	100.2								32.336	-1.4038	61.23	0.39	
123496	81	100	100.2								32.336	-1.4044	61.20	0.41	
123497	81	100	100.2								32.337	-1.4044	61.09	0.39	
123498	81	100	100.2								32.336	-1.4029	61.30	0.40	
123499	81	100	100.1	32.334		1.64	25.3	8.6			32.337	-1.4032	61.13	0.38	16

Cruise : 9526  
 Station : AR12

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
83	69.496	138.093	8/31/95	20:02	81	73

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128901	83	74	75.1	31.897	363.7	1.26	10.4	2.7	0.738	0.364	31.906	-1.3224	42.44	1.44	16
128902	83	74	74.9								31.907	-1.2823	42.00	1.45	
128903	83	70	68.5	31.876	368.2	1.25	9.2	2.2	0.651	0.353	31.873	-1.3014	13.27	1.49	16
128904	83	70	68.6								31.880	-1.3019	19.26	1.58	
128905	83	60	59.1	31.845	373.6	1.18	7.7	1.6			31.845	-1.2949	33.10	1.52	16
128906	83	60	59.0								31.845	-1.2959	30.73	1.46	
128907	83	50	49.5	31.840	374.8	1.15	7.4	1.5	0.600	0.300	31.836	-1.2848	37.63	2.05	16
128908	83	50	49.4								31.836	-1.2838	37.90	1.40	
128909	83	40	40.5	31.782	384.5	1.09	6.5	1.0			31.811	-1.2623	36.76	1.35	16
128910	83	40	40.2								31.815	-1.2663	39.04	1.17	
128911	83	30	30.0	31.488	395.0	1.04	8.3	1.5	0.392	0.194	31.491	-1.2925	53.77	0.89	16
128912	83	30	30.0								31.455	-1.3153	54.93	0.87	
128913	83	20	20.0	30.585	416.6	0.80	5.1	0.1	0.170	0.107	30.795	-0.8208	59.92	0.72	16
128914	83	20	19.9								30.835	-0.9607	60.86	0.73	
128915	83	10	10.4	24.333	350.5	0.42	8.3	0.0	0.172	0.104	24.221	4.5558	52.14	0.64	16
128916	83	10	10.4								24.508	4.2740	56.56	0.69	
128917	83	0	1.3	23.417	337.8	0.38	8.9	0.0	0.132	0.067	23.405	5.2749	59.90	0.44	16
128918	83	0	1.2								23.405	5.2749	59.90	0.43	
	83	0	1.2								23.405	5.2817	59.98	0.42	
	83	0	1.2								23.401	5.2814	60.01	0.44	
	83	0	1.2								23.405	5.2801	59.98	0.42	
	83	0	1.2								23.400	5.2970	59.98	0.41	
	83	0	1.1								23.413	5.2679	59.98	0.43	

69T



Cruise : 9526  
Station : BB01

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
85	71.235	128.775	9/1/95	19:20	49	46

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128919	85	50	48.9	31.983	365.5	1.18	7.6	1.0	0.325	0.237	31.984	-0.7469	29.91	0.86	
128920	85	50	48.9								31.985	-0.7504	30.15	0.86	16
128921	85	50	48.9								31.983	-0.7496	30.14	0.87	
128922	85	40	39.4	31.974	367.8	1.16	7.2	0.9	0.427	0.291	31.977	-0.7406	32.14	1.06	16
128923	85	40	39.4								31.971	-0.7334	35.20	0.97	
128924	85	40	39.5								31.972	-0.7336	34.73	1.00	
128925	85	30	28.9	31.589	398.1	0.92	4.4	0.3	0.225	0.115	31.636	-0.1147	56.79	1.01	16
128926	85	30	28.9								31.366	0.0799	56.99	0.91	
128927	85	30	28.9								31.324	0.1097	61.95	0.56	
128928	85	20	20.2	30.241	371.7	0.81	3.9	0.0	0.084	0.034	29.863	3.0865	63.38	0.32	16
128929	85	20	20.2								29.900	2.9847	63.45	0.32	
128930	85	20	20.2								29.862	3.0604	63.42	0.32	
128931	85	20	20.2								29.871	3.0804	63.40	0.34	
128932	85	10	10.5	28.816	343.2	0.76	3.7	0.0	0.077	0.021	28.751	2.8797	62.78	0.27	16
128933	85	10	10.5								28.764	2.7847	62.71	0.30	
128934	85	0	0.8	28.757	345.7	0.77	3.8	0.0	0.062	0.024	28.757	2.7466	62.64	0.30	16
128935	85	0	0.8								28.754	2.7441	62.62	0.25	
128936	85	0	0.8								28.754	2.7402	62.48	0.23	

Cruise : 9526  
Station : BB02

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
88	71.380	128.272	9/1/95	22:10	117	113

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128937	88	116	116.3	32.469	291.3	1.80	27.7	9.3			32.469	-1.3988	46.52	0.35	16
	88	100	99.9								32.460	-1.4016	45.02	0.36	
	88	100	100.0								32.458	-1.4006	45.62	0.36	
128938	88	70	69.0	32.402	288.5	1.77	26.6	8.6	0.089	0.073	32.410	-1.3903	46.90	0.43	16
	88	70	69.6								32.400	-1.3874	47.30	0.45	
	88	70	69.7								32.399	-1.3873	47.43	0.45	
128939	88	50	49.8	31.772	329.7	1.46	14.6	4.4	0.126	0.107	32.083	-1.2764	58.40	0.61	11, 16
	88	50	49.9								32.077	-1.2719	57.72	0.68	
	88	50	49.9								32.084	-1.2753	57.77	0.67	
128940	88	30	30.3	31.426	407.1	0.89	3.9	0.1	0.062	0.036	31.244	0.3001	65.71	0.45	16
	88	30	30.3								31.212	0.3425	65.89	0.40	
	88	30	30.3								31.312	0.2408	65.76	0.44	
	88	20	20.1								30.952	0.8830	65.39	0.31	
128941	88	20	20.1	30.617	381.6	0.78	3.1	0.0	0.114	0.086	30.488	2.0019	65.10	0.35	16
	88	20	20.1								30.447	1.9528	65.06	0.32	
128942	88	10	10.5	29.372	339.7	0.76	3.7	0.0	0.074	0.035	29.632	3.0525	63.46	0.34	16
	88	10	10.5								29.305	3.4971	63.61	0.32	
	88	10	10.5								29.315	3.4753	63.47	0.31	
128943	88	0	0.4	29.295	337.3	0.78	3.8	0.0	0.065	0.027	29.288	3.5088	63.47	0.27	16
	88	0	0.4								29.288	3.5075	63.24	0.28	
	88	0	0.3								29.287	3.5073	63.15	0.31	

Cruise : 9526  
 Station : BB03

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
91	71.530	127.693	9/2/95	0:20	305	304

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128944	91	300	304.5	34.696	271.8	1.14	17.0	13.1			34.686	0.0718	59.38	0.21	16
128945	91	300	304.5	34.686		1.14	16.9	13.1			34.685	0.0734	59.26	0.20	16
128946	91	300	304.5								34.685	0.0741	59.21	0.19	
128947	91	300	304.5								34.686	0.0756	59.21	0.20	
128948	91	300	304.5								34.686	0.0751	59.26	0.20	
128949	91	250	250.2	34.566	272.4	1.18	17.1	13.1			34.567	-0.2237	60.50	0.21	16
128950	91	200	200.0	34.158	244.3	1.58	26.7	14.7			34.165	-0.6395	68.34	0.21	16
128951	91	200	200.1	34.137		1.60	26.6	14.6			34.106	-0.7102	68.22	0.22	16
128952	91	200	200.2								34.102	-0.7099	68.30	0.21	
128953	91	200	200.3								34.104	-0.7121	68.14	0.22	
128954	91	200	200.3								34.100	-0.7125	68.24	0.22	
128955	91	150	149.9								33.309	-1.2870	67.89	0.22	16
128956	91	130	128.8	33.034		1.95	31.2	13.2			33.028	-1.3434	67.13	0.22	16
128957	91	130	130.3								33.014	-1.3420	67.62	0.22	
128958	91	130	130.3								33.015	-1.3418	67.56	0.23	
128959	91	130	130.3								33.013	-1.3417	67.55	0.23	
128960	91	100	99.9	32.690	285.2	1.87	26.7	11.7			32.722	-1.3326	66.95	0.24	16
128961	91	70	69.8	32.294	315.1	1.62	17.7	7.6	0.043	0.112	32.267	-1.0957	67.75	0.29	16
128962	91	50	50.3	31.847	381.3	1.11	5.6	1.7	0.165	0.171	31.848	-0.8414	63.92	0.85	16
128963	91	30	29.9	31.147	401.2	0.83	4.0	0.0	0.113	0.106	31.260	-0.0748	65.02	0.55	16
128964	91	20	19.5	30.040	358.3	0.78	4.0	0.0	0.110	0.072	29.992	2.9819	62.33	0.43	16
128965	91	10	9.5	29.416	334.0	0.74	3.9	0.0	0.105	0.048	29.397	3.6705	61.72	0.43	16
128966	91	0	0.0	29.360	334.3	0.76	3.8	0.0	0.088	0.046	29.352	3.4350	61.60	0.40	16

Cruise : 9526  
Station : BB04

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
94	71.828	126.587	9/2/91	14:25	296	290

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128967	94	300	294.6	34.567	231.6	1.50	28.9	16.7			34.565	-0.0614	0.09	0.21	16
128968	94	300	294.8	34.568		1.49	29.1	16.8			34.570	-0.0534	51.92	0.22	16
128969	94	300	294.9								34.573	-0.0498	58.04	0.21	
128970	94	250	249.7	34.525	231.7	1.49	29.0	16.8			34.527	-0.1151	64.19	0.20	16
128971	94	200	200.2	34.217	230.8	1.68	32.8	17.2			34.218	-0.4671	66.06	0.21	16
128972	94	160	159.2	33.577		1.93	35.8	16.7			33.570	-1.0417	65.88	0.22	16
128973	94	160	159.7								33.572	-1.0570	65.86	0.22	
128974	94	150	149.8	33.452	256.1	1.96	35.5	16.5			33.465	-1.1585	65.67	0.23	16
128975	94	110	110.0	32.931		1.98	32.8	15.2			32.928	-1.3635	66.59	0.22	16
128976	94	110	110.6								32.912	-1.3638	66.65	0.22	
128977	94	100	101.3	32.827	281.2	1.95	31.6	14.4			32.824	-1.3719	66.13	0.23	16
128978	94	70	71.2	32.367	315.1	1.72	22.4	10.5			32.371	-1.2768	66.98	0.34	16
128979	94	50	50.9	31.804	405.8	1.06	7.5	1.1			31.809	-1.0278	60.88	1.46	16
128980	94	40	41.1			1.02	7.4	1.2			31.569	-0.8982	65.73	0.87	16
128981	94	40	41.3								31.566	-0.8962	65.78	0.71	
128982	94	30	30.1	31.279	400.6	0.92	5.4	0.1			31.268	-0.5902	63.77	0.76	16
128983	94	25	25.8	31.103		0.88	4.6	0.0			31.112	-0.7439	64.22	0.53	16
128984	94	25	25.9								31.114	-0.6699	64.30	0.46	
128985	94	20	20.4	30.956	393.4	0.86	4.2	0.0			30.826	1.1704	63.14	0.53	16
128986	94	10	10.5	29.980	354.5	0.86	4.3	0.0			29.721	2.3461	32.64	1.00	16
128987	94	10	10.7	29.670		0.86	3.9	0.0			29.642	2.3845	30.59	0.69	16
128988	94	10	10.8								29.634	2.3865	30.34	0.67	
128989	94	0	0.9	29.708	348.0	0.87	3.9	0.0			29.634	2.4114	30.03	0.61	16

Cruise : 9526  
Station : BB05

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
97	71.878	126.379	9/2/91	16:00	191	185

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
128990	97	200	189.5	34.038	237.5	1.75	34.1	16.8			34.059	-0.6636	55.08	0.70	16
128991	97	200	188.8	34.030		1.76	34.1	16.8			34.042	-0.6804	1.44	0.47	16
128992	97	200	188.4								34.038	-0.6676	0.00	0.39	
128993	97	200	188.4								34.034	-0.6788	1.09	0.46	
128994	97	200	188.2								34.045	-0.6778	5.27	0.35	
128995	97	200	188.0								34.047	-0.6625	2.65	0.44	
128996	97	200	188.5								34.067	-0.6483	55.58	0.25	
128997	97	150	150.7	33.432	260.9	1.94	35.1	16.0			33.440	-1.2055	66.54	0.23	16
128998	97	100	100.3	32.810	283.4	1.96	31.7	14.1			32.825	-1.3741	67.44	0.24	16
128999	97	100	101.2	32.819		1.96	31.8	14.0			32.822	-1.3744	67.52	0.23	16
129000	97	100	102.1								32.832	-1.3750	67.42	0.23	
129001	97	100	102.7								32.835	-1.3740	67.53	0.23	
129002	97	100	103.3								32.838	-1.3717	67.50	0.22	
129003	97	100	103.7								32.846	-1.3686	67.66	0.23	
129004	97	100	104.1								32.860	-1.3630	67.51	0.23	
129005	97	70	70.2	32.404	309.6	1.74	23.0	10.5	0.029	0.045	32.445	-1.2925	67.48	0.29	16
129006	97	50	50.1	32.743	382.8	1.25	14.3	1.3	1.970	0.630	31.964	-1.1650	55.49	1.86	5, 16
129007	97	30	29.9	31.185	404.9	0.89	4.5	0.0	0.109	0.067	31.217	0.1256	63.43	0.57	16
129008	97	20	19.1	30.542	371.7	0.89	4.6	0.0	0.317	0.160	30.505	1.6185	31.31	1.09	16
129009	97	10	9.7	30.115	359.0	0.87	4.3	0.0	0.199	0.151	29.882	2.4630	37.66	0.84	16
129010	97	10	10.0								29.844	2.5271	38.47	0.61	
129011	97	0	0.3	29.738	347.4	0.85	4.0	0.0	0.132	0.124	29.735	2.6633	39.14	0.48	16
129012	97	0	0.3								29.733	2.6608	35.83	0.51	

Cruise : 9526  
 Station : BB06

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
100	71.917	126.222	9/2/91	18:25	85	74

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129013	100	80	81.0	32.648	288.8	1.90	28.4	12.9			32.651	-1.3284	67.14	0.24	16
	100	80	81.2								32.651	-1.3289	67.15	0.25	
129014	100	70	69.5	32.550	296.6	1.84	26.3	12.1	0.027	0.053	32.554	-1.3169	67.05	0.27	16
	100	70	69.8								32.526	-1.3109	67.60	0.26	
129015	100	50	48.3	31.859	393.9	1.11	7.8	1.7	0.589	0.310	31.887	-1.0507	62.42	1.10	16
	100	50	48.8								31.871	-1.0374	62.09	1.13	
129016	100	40	40.0	31.677	411.5	0.98	5.9	0.5			31.706	-0.9263	60.82	1.54	16
	100	40	40.6								31.690	-0.9140	61.32	1.52	
129017	100	30	30.0	31.298	408.7	0.89	5.0	0.0	0.228	0.097	31.358	-0.2605	64.87	0.66	16
	100	30	30.4								31.302	-0.1272	64.76	0.67	
129018	100	20	19.5	30.723	382.7	0.86	4.2	0.0	0.371	0.189	30.909	1.1745	60.02	0.60	16
129019	100	10	10.0	29.773	346.8	0.82	4.0	0.0	0.137	0.089	29.762	2.6873	43.22	0.43	16
	100	10	10.5								29.760	2.6927	43.37	0.38	
129020	100	0	0.9	29.761	346.7	0.83	4.0	0.0	0.133	0.080	29.757	2.7017	43.39	0.38	16
	100	0	1.0								29.758	2.7005	43.57	0.36	
	100	0	1.0								29.762	2.6959	43.46	0.34	

Cruise : 9526  
Station : BB07

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
103	73.007	128.091	9/3/91	15:01	314	302

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129021	103	300	312.5	34.664	252.0	1.28	21.8	15.6			34.665	0.0607	56.60	0.19	16
129022	103	300	313.0								34.670	0.0654	60.55	0.19	16
129023	103	250	249.7	34.500	242.8	1.41	24.8	16.7			34.503	-0.2024	65.34	0.19	16
129024	103	250	251.0								34.505	-0.2014	65.39	0.20	16
129025	103	200	199.8	34.013	237.4	1.73	33.3	17.1			34.028	-0.6869	64.51	0.22	16
129026	103	200	201.3	34.015		1.74	33.6	17.0			34.021	-0.6944	64.63	0.22	16
129027	103	200	202.3								34.034	-0.6794	64.59	0.21	16
129028	103	150	150.0	33.312	263.5	1.94	34.7	15.9			33.334	-1.2451	65.65	0.22	16
129029	103	150	150.8	33.319		1.94	35.2	15.9			33.324	-1.2508	65.69	0.22	16
129030	103	150	151.4								33.329	-1.2475	65.74	0.22	16
129031	103	110	110.2	32.737		1.95	30.9	14.2			32.747	-1.3778	66.97	0.25	16
129032	103	110	110.9								32.751	-1.3793	66.99	0.24	16
129033	103	100	101.0	32.632	293.1	1.87	28.2	13.3			32.642	-1.3630	67.01	0.23	16
129034	103	80	79.9	32.372		1.71	22.2	10.8			32.391	-1.3233	66.95	0.28	16
129035	103	80	80.4								32.392	-1.3238	67.13	0.28	16
129036	103	70	70.2	32.203	327.9	1.57	17.1	8.9	0.074	0.061	32.219	-1.2921	66.77	0.34	16
129037	103	50	50.5	31.802	401.4	1.02	4.9	0.9	0.399	0.222	31.805	-1.0041	63.87	1.01	16
129038	103	30	30.9	31.125	406.1	1.02	4.8	0.9	0.055	0.045	31.190	-0.4589	66.46	0.28	13,16
129039	103	20	20.4		406.5	0.86	3.4	-0.3	0.036	0.024	30.325	-0.4561	66.61	0.24	16
129040	103	10	10.6	28.789	370.1	0.78	3.0	-0.3	0.053	0.017	28.785	-0.1189	63.14	0.22	16
129041	103	10	10.9	28.789		0.78	2.9	-0.3			28.787	-0.1221	63.24	0.24	16
129042	103	10	10.9								28.784	-0.1197	63.19	0.22	16
129043	103	0	0.3	28.591	372.9	0.80	3.0	-0.3	0.040	0.021	28.590	-0.2438	65.08	0.19	16

Cruise : 9526  
 Station : BB08

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
106	73.008	126.619	9/3/91	19:10	105	102

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129044	106	100	104.1	32.990	271.6	2.06	35.7	15.7			32.993	-1.3880	61.34	0.26	16
129045	106	100	104.2	32.990		2.05		15.6			32.993	-1.3882	61.25	0.25	16
129046	106	100	104.2								32.991	-1.3871	61.13	0.25	
129047	106	100	104.3								32.993	-1.3882	60.87	0.25	
129048	106	100	104.3								32.993	-1.3881	60.64	0.24	
129049	106	100	104.3								32.993	-1.3884	60.82	0.24	
129050	106	70	69.5	32.438	307.6	1.76	24.3	11.3	0.068	0.055	32.425	-1.2847	67.86	0.30	16
	106	70	69.7								32.427	-1.2853	67.88	0.28	
129051	106	50	49.6	31.944	419.1	1.05	9.0	0.6	0.203	0.242	31.948	-1.1545	64.76	0.73	16
	106	50	49.8								31.870	-1.1180	65.13	0.85	
129052	106	30	30.0	31.189	399.2	0.87	3.9	-0.2	0.096	0.038	31.171	-0.2676	66.72	0.29	16
	106	30	30.1								31.166	-0.2617	66.77	0.29	
129053	106	20	20.6	31.032	394.3	0.86	3.6	-0.2	0.130	0.037	31.146	0.2485	65.77	0.35	16
129053b	106	20	20.7		393.7						30.956	0.8136	65.31	0.40	
129054	106	10	10.3	30.402	376.7	0.84	3.2	-0.2	0.104	0.031	30.256	1.4679	62.79	0.30	16
129054b	106	10	10.3		376.4						30.241	1.4813	62.82	0.27	
129055	106	0	0.6	29.232	375.0	0.81	2.9	-0.2	0.063	0.015	29.253	-0.4528	56.71	0.21	16
	106	0	0.6								29.253	-0.4528	56.61	0.23	



Cruise : 9526  
 Station : BB09

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
109	72.992	126.186	9/3/91	21:55	45	39

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129056	109	50	41.9	31.892	445.6	1.18	11.9	3.1	0.239	0.185	31.898	-0.8811	60.79	0.66	16
	109	50	42.0								31.899	-0.8814	60.70	0.69	
129057	109	40	39.4	31.863		1.15	11.3	2.7	0.234	0.175	31.888	-0.8713	60.79	0.75	2, 16
	109	40	39.4								31.845	-0.8535	61.28	0.72	
129058	109	30	30.8	31.557	412.0	0.93	5.6	0.2	0.217	0.105	31.575	-0.7498	63.95	0.66	16
	109	30	30.8								31.392	-0.5510	64.22	0.52	
129059	109	20	20.2	31.234	405.9	0.86	3.9	0.2	0.123	0.056	31.271	0.0715	63.47	0.53	16
	109	20	20.2								31.072	0.4314	60.79	0.73	
129060	109	10	10.5	30.246	384.0	0.81	3.1	0.2	0.109	0.025	30.355	0.2276	57.22	0.39	16
	109	10	10.4								30.079	-0.1215	57.23	0.34	
	109	0	1.2								29.745	-0.4297	57.06	0.22	
129061	109	0	1.1	29.715	378.1	0.79	2.7	0.2	0.060	0.033	29.732	-0.4276	56.95	0.27	16
	109	0	1.1								29.724	-0.4469	57.08	0.30	

Cruise : 9526  
 Station : BB10

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
112	72.997	125.819	9/3/91	23:00	37	30

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129062	112	30	35.7	31.842	390.7	1.15	10.8	2.5	0.199	0.170	31.843	-0.8302	5.05	1.60	16
	112	30	36.0					-0.8294				22.20			0.97
129063	112	20	19.6	31.123	403.2	0.87	3.6	-0.2	0.109	0.034	31.090	0.2786	61.28	0.46	16
	112	20	20.1					0.3115				60.54			0.50
129064	112	10	10.4	29.971	380.3	0.82	2.8	-0.2	0.065	0.019	29.999	-0.4443	56.70	0.30	16
	112	10	10.4					-0.5214				56.70			0.30
129065	112	0	0.7	29.970	380.3	0.81	3.0	-0.3	0.069	0.014	29.969	-0.4695	53.93	0.30	16
	112	0	0.7					-0.4765				56.50			0.26

Cruise : 9526  
Station : BB11

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
115	73.005	128.876	9/4/95	15:08	498	498

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129066	115	500	497.9	34.805	283.1	1.07	13.4	14.3			34.803	0.3211	60.87	0.18	16
129067	115	500	498.0	34.804		1.08	13.5	14.3			34.804	0.3212	60.76	0.18	16
129068	115	500	498.0								34.804	0.3209	60.93	0.18	
129069	115	450	449.2	34.781	279.9	1.10	13.8	14.4			34.781	0.2818	64.22	0.17	16
129070	115	400	399.1	34.751	271.1	1.15	15.3	14.8			34.751	0.2260	64.83	0.17	
129071	115	350	348.4								34.730	0.1849	65.34	0.18	3
129072	115	300	299.0	34.617	268.0	1.21	16.9	14.8			34.618	-0.0604	66.84	0.18	16
129073	115	300	299.3			1.21	17.1	14.8			34.617	-0.0606	66.94	0.19	16
129074	115	300	299.6								34.617	-0.0612	66.86	0.19	
129075	115	250	248.3	34.498	263.2	1.31	19.3	15.1			34.508	-0.2837	67.22	0.19	16
129076	115	250	248.6								34.502	-0.2916	67.29	0.19	
129077	115	200	199.3	34.116	251.7	1.64	27.6	16.5			34.144	-0.6998	67.62	0.21	16
129078	115	160	159.0								33.412	-1.3357	68.26	0.23	
129079	115	150	149.8	33.249	272.6	2.04	34.3	16.6			33.266	-1.3782	68.24	0.21	16
129080	115	110	109.6	32.772		2.00	31.0	14.9			32.793	-1.4055	68.20	0.24	16
129081	115	110	109.8								32.776	-1.3954	68.16	0.24	
129082	115	100	98.8	32.642	294.4	1.92	28.1	13.8			32.661	-1.3507	68.12	0.26	16
129083	115	70	69.8	32.136	348.5	1.48	15.7	7.4	0.129	0.157	32.098	-1.3149	66.60	0.58	16
129084	115	50	50.5	31.588	422.6	0.96	5.7	0.1	0.366	0.184	31.620	-1.1887	63.35	0.97	16
129085	115	30	29.1	30.665	408.0	0.88	3.7	0.0	0.054	0.035	30.776	-0.3298	67.47	0.31	16
129086	115	20	19.5	29.877	410.9	0.84	3.1	0.0	0.038	0.021	29.841	-0.8178	66.89	0.24	16
129087	115	10	10.4	28.144	377.5	0.78	3.0	0.0	0.034	0.018	28.173	-0.7181	65.82	0.23	16
129088	115	0	0.2		377.3	0.78	3.1	0.0	0.036	0.017	28.145	-0.6984	65.90	0.21	16

08T

Cruise : 9526  
 Station : BB11

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
117	72.983	128.850	9/4/95	16:40	163	479

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
130235	117	160	162.8	33.413	270.9	2.00	34.8	15.8			33.420	-1.3262	68.99	0.23	16
130236	117	160	162.9	33.407		2.00	34.8	15.6			33.417	-1.3260	68.92	0.23	16
130237	117	160	160.1								33.382	-1.3499	68.91	0.22	
	117	160	160.3								33.376	-1.3545	68.93	0.23	
	117	160	160.3								33.374	-1.3543	68.45	0.23	
130238	117	50	50.6	31.613	424.0	0.97	5.9	0.0	0.393	0.167	31.631	-1.2032	62.72	1.34	16
	117	50	51.2								31.636	-1.2056	62.35	1.43	
130239	117	0	0.2	28.142	376.2	0.78	3.1	0.0			28.140	-0.7092	66.35	0.22	16
	117	0	-0.1								28.141	-0.7155	66.34	0.21	

T8T

Cruise : 9526  
 Station : BB12

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
120	72.992	129.346	9/4/95	18:10	697	695

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
129089	120	687	687.6	34.859	301.7	0.98	8.6	14.4			34.863	0.2923	65.58	0.16	16
129090	120	670	667.0	34.850		0.97	8.9	14.2			34.851	0.3600	66.35	0.16	16
129091	120	650	649.5	34.849	301.3	0.98	8.5	14.1			34.849	0.3691	67.28	0.16	16
129092	120	600	598.4	34.842	300.4	0.98	8.5	14.0			34.842	0.3830	67.24	0.16	16
129093	120	550	547.8	34.830	299.6	0.97	8.4	14.1			34.831	0.3971	67.65	0.16	16
129094	120	500	499.2	34.812	297.1	0.99	9.5	14.3			34.812	0.3760	66.85	0.17	16
129095	120	450	449.5	34.799	296.9	0.98	9.2	14.1			34.801	0.3682	67.58	0.16	16
129096	120	400	399.8	34.777	297.2	0.98	9.0	13.9			34.780	0.3375	68.28	0.17	16
129097	120	350	349.4	34.739	289.0	1.04	11.3	14.3			34.741	0.2160	68.22	0.17	16
129098	120	300	301.4	34.680	285.2	1.07	12.5	14.3			34.682	0.0397	68.40	0.18	16
129099	120	250	251.3	34.530	259.9	1.30	20.8	16.0			34.532	-0.2321	68.27	0.19	16
129100	120	200	199.9	33.989	254.1	1.72	31.1	17.9			34.005	-0.8182	68.74	0.21	16
130201	120	150	150.7	33.160	286.5	2.04	36.3	17.5			33.159	-1.4976	69.20	0.22	16
130202	120	130	129.6	32.937	292.0	2.03	34.8	17.0			32.928	-1.5089	69.17	0.22	16
130203	120	100	100.8	32.637	297.1	1.92	29.9	14.8			32.644	-1.3750	68.91	0.24	16
130204	120	80	80.1	32.330	320.1	1.70	22.6	11.5	0.035	0.048	32.361	-1.2875	68.62	0.27	16
130205	120	60	60.4	31.901	380.5	1.28	11.9	4.8			31.903	-1.3089	67.65	0.56	16
130206	120	50	46.6	31.389	412.8	0.92	4.7	0.0	0.136	0.081	31.413	-0.8596	67.23	0.60	16
130207	120	40	39.7	31.068	406.8	0.88	4.6	0.0			31.096	-0.3865	67.57	0.37	16
130208	120	30	30.0	30.321	420.8	0.84	3.3	0.0	0.046	0.044	30.364	-1.1811	67.02	0.33	16
130209	120	20	19.8	29.619	416.2	0.79	3.2	0.0	0.039	0.043	29.686	-1.0986	67.30	0.25	16
130210	120	10	10.0	27.898	382.8	0.75	3.3	0.0	0.038	0.015	27.895	-0.9219	66.30	0.18	16
130211	120	0	-0.5	27.875	382.0	0.76	3.3	0.0	0.031	0.014	27.876	-0.9325	65.84	0.23	16

Cruise : 9526  
 Station : BB12

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
122	73.002	129.346	9/4/95	20:50	703	708

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
130240	122	700	693.5	34.858		1.00	7.9	13.2			34.856	0.3290	66.10	0.16	16
130241	122		691.2								34.856	0.3334	66.31	0.16	
130242	122		689.6								34.856	0.3362	66.12	0.16	
130243	122		688.3								34.856	0.3389	65.91	0.16	
130244	122		686.8								34.855	0.3400	65.84	0.16	
130245	122	500	499.5	34.818		1.01	8.4	13.0			34.817	0.3887	67.46	0.17	16
130246	122		499.9								34.818	0.3894	67.47	0.16	
130247	122		500.5								34.818	0.3903	66.15	0.16	
130248	122		500.6								34.818	0.3905	67.61	0.17	
130249	122		500.7								34.818	0.3910	67.64	0.16	
	122	300	300.6	34.685		1.11	12.8	13.3			34.684	0.0472	68.42	0.18	16
130251	122		302.8								34.686	0.0527	68.43	0.19	
130252	122		304.6								34.688	0.0553	68.33	0.18	
130253	122		305.9								34.688	0.0562	68.44	0.18	
130254	122		307.2								34.690	0.0652	68.42	0.18	
130255	122		206.9								34.105	-0.7602	68.63	0.21	
130256	122		208.3								34.151	-0.7188	68.61	0.21	
130257	122		210.1								34.159	-0.7121	68.67	0.20	
130258	122		131.1								32.976	-1.5104	69.31	0.23	
130259	122	130	133.0	32.974		2.10	33.9	15.6			32.989	-1.5109	69.19	0.23	16
130260	122		134.9								32.997	-1.5118	69.31	0.22	
130261	122		136.5								33.025	-1.5149	69.30	0.22	
130262	122		0.0								0.000	0.0000			

183

Cruise : 9526  
Station : BB13

Cast #	Lat deg N	Long deg W	Date dd/mm/yy	Time UTC	Cast Depth	Bottom Depth
124	72.991	129.885	9/4/95	22:58	1244	1249

Sample #	Cast #	Nominal depth (m)	CTD pressure at bottle trip (dbar)	Salinity (psu)	Oxygen (uM)	Phosphate (uM)	Silicate (uM)	Nitrate (uM)	Extracted Chlorophyll a (ug/l)	Extracted Phaeo-pigment (ug/l)	CTD Salinity (psu)	CTD Temperature (deg C)	Transmission (%)	Chlorophyll a (Fluorometer) mg/m <sup>3</sup>	notes
130212	124	1200	1243.7	34.909	307.1	1.03	9.2	14.5			34.908	-0.2123	68.23	0.15	16
130213	124	1100	1097.3	34.897	308.9	0.99	8.2	14.1			34.894	-0.0428	68.50	0.15	16
130214	124	1000	999.1	34.889	306.8	0.99	8.0	13.9			34.890	0.0449	68.71	0.14	16
130215	124	900	899.5	34.884	313.8	1.00	7.9	14.0			34.884	0.1429	68.74	0.15	16
130216	124	800	799.5	34.875	307.2	0.98	8.0	14.0			34.874	0.2302	68.54	0.15	16
130217	124	700	699.7	34.827	300.7	0.98	8.1	13.9			34.866	0.3262	68.72	0.16	16
130218	124	600	599.3	34.856	303.2	0.98	8.0	14.1			34.855	0.4032	68.94	0.16	16
130219	124	500	503.2	34.833	301.9	0.98	8.1	14.0			34.834	0.4227	69.06	0.16	16
130220	124	400	399.2	34.795	299.3	0.98	8.4	13.8			34.795	0.3760	68.97	0.16	16
130221	124	350	349.5	34.759	295.8	1.00	9.3	13.9			34.757	0.2707	69.08	0.17	16
130222	124	300	299.1	34.687	288.8	1.04	11.2	14.1			34.687	0.0283	68.93	0.18	16
130223	124	250	249.0	34.512	276.9	1.19	16.0	14.5			34.530	-0.3702	68.78	0.19	16
130224	124	200	200.0	34.014	258.2	1.70	29.2	17.2			34.004	-0.8638	68.76	0.22	16
130225	124	140	139.9	33.073	280.9	2.05	34.6	16.7			33.067	-1.4560	68.94	0.23	16
130226	124	100	100.2	32.615	297.9	1.91	27.8	13.6			32.635	-1.3430	68.92	0.23	16
130227	124	80	79.8	32.351	321.0	1.70	21.6	10.6	0.052	0.047	32.369	-1.3008	68.52	0.33	16
130228	124	60	60.1	31.863	388.8	1.22	10.0	3.4			32.018	-1.3222	67.88	0.46	16
130229	124	50	50.0	31.577	420.6	0.97	5.6	0.3	0.223	0.177	31.659	-1.2485	66.98	0.66	16
130230	124	40	39.9	31.262	412.2	0.91	4.7	0.0			31.278	-0.6858	66.79	0.71	16
130231	124	30	30.2		412.5	0.88	4.0	0.0	0.068	0.059	30.610	-0.7114	67.52	0.39	16
130232	124	20	19.8	29.562	405.8	0.83	3.3	0.0	0.071	0.053	29.638	-0.7475	67.45	0.31	16
130233	124	10	10.1	27.685	395.9	0.77	3.4	0.0	0.053	0.029	27.836	-1.2976	65.56	0.33	16
130234	124	0	-0.7	27.472	390.3	0.82	3.2	0.0	0.050	0.029	27.467	-1.4036	61.52	0.26	16

### 4.3 Chemistry Profile Plots

The following Appendix contains profile plots for the following parameters :

- Bottle salinity
- Dissolved oxygen
- Silicate
- Orthophosphate
- Nitrate
- Extracted chlorophyll a
- Extracted Phaeo-pigments

The profiles are plotted in groups of stations as follows :

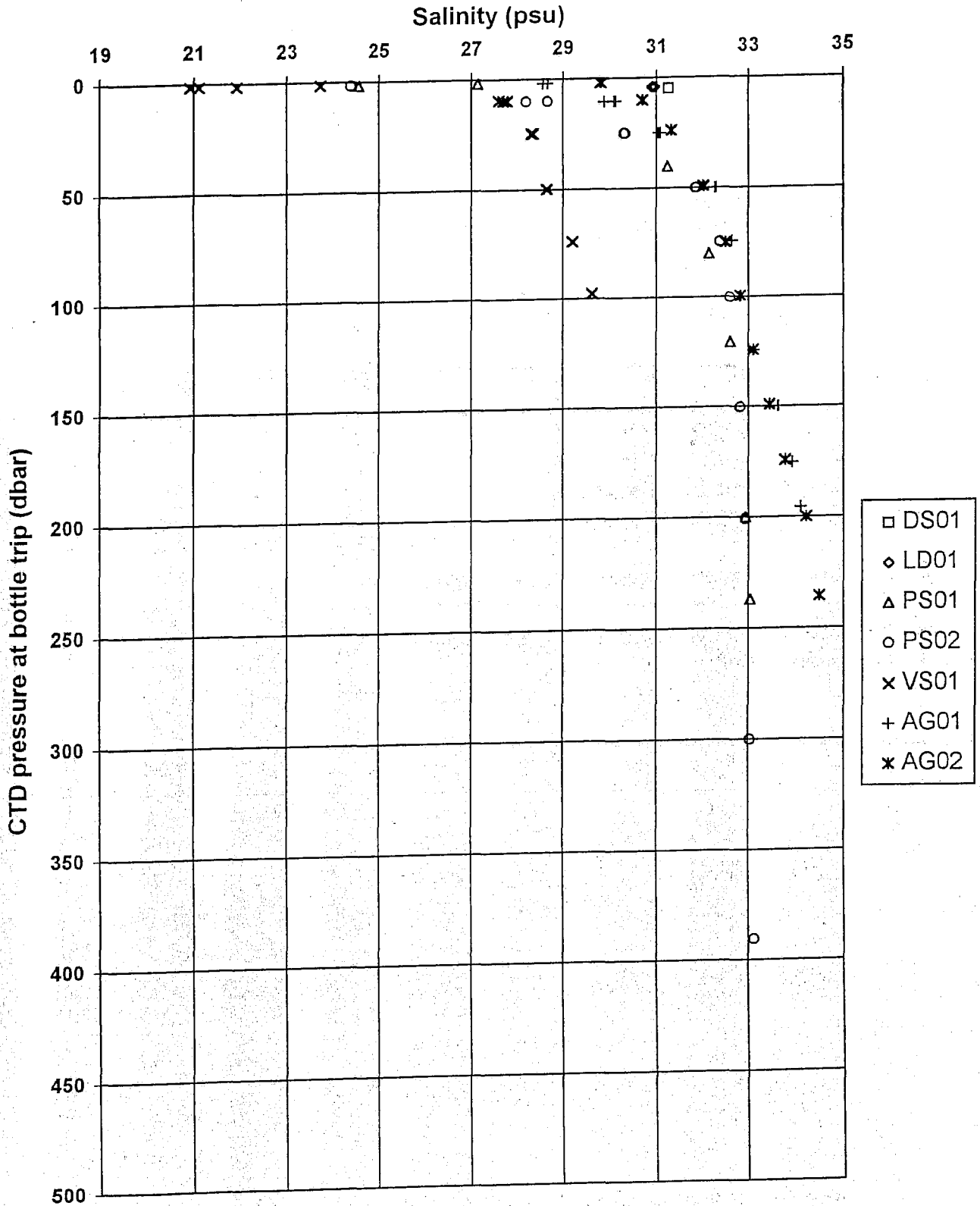
- Leg 1 - Stations : DS01, LD01, PS01, PS02, VS01, AG01, AG02
- Leg 2 - Stations AR01 to AR05
- Leg 2 - Stations AR06 to AR09
- Leg 2 - Stations AR10 to AR12
- Leg 2 - Stations BB01 to BB06
- Leg 2 - Stations BB07 to BB13

Each group of stations is plotted twice as follows :

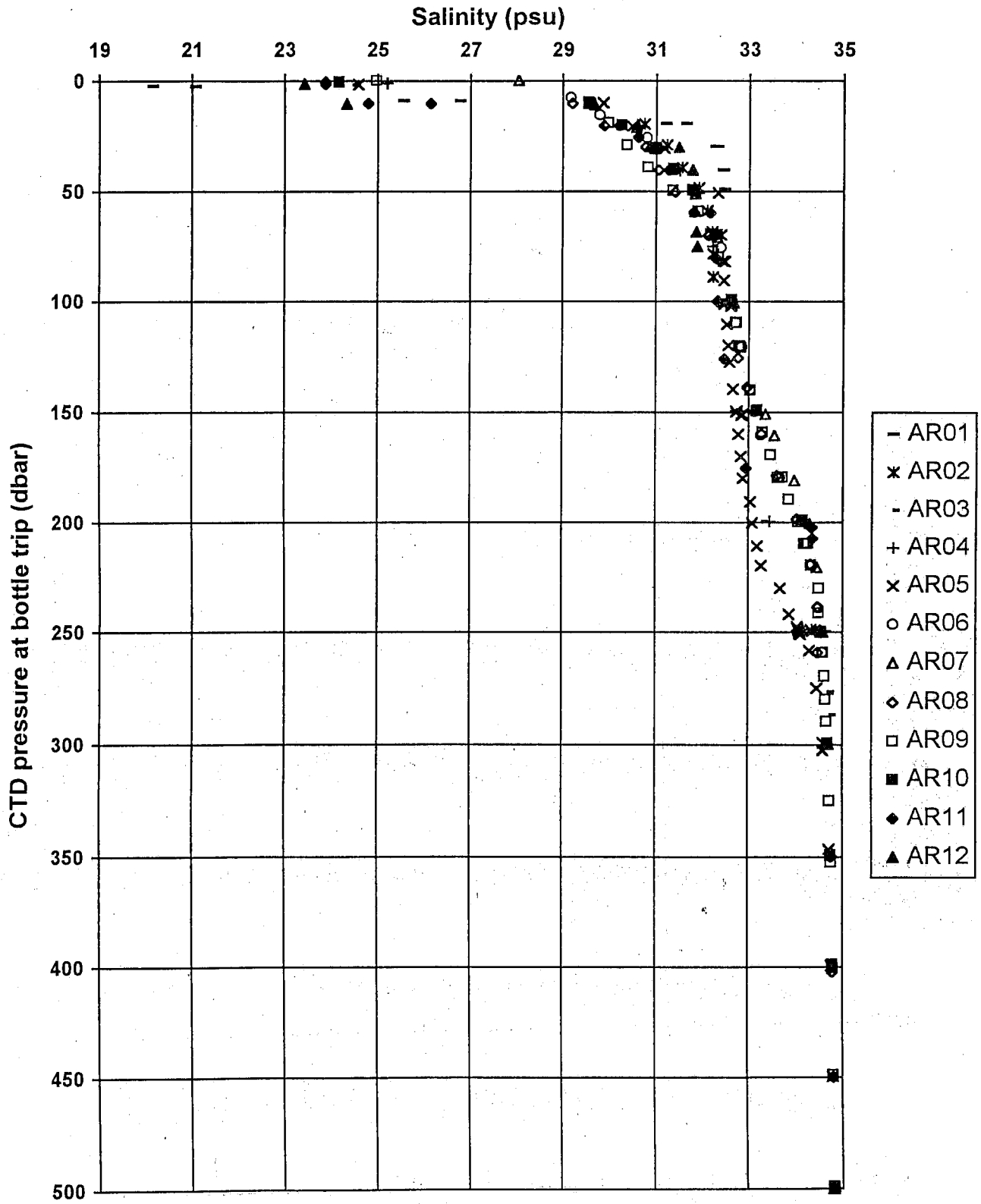
- Surface to 500 metres to show surface detail
- Complete profile



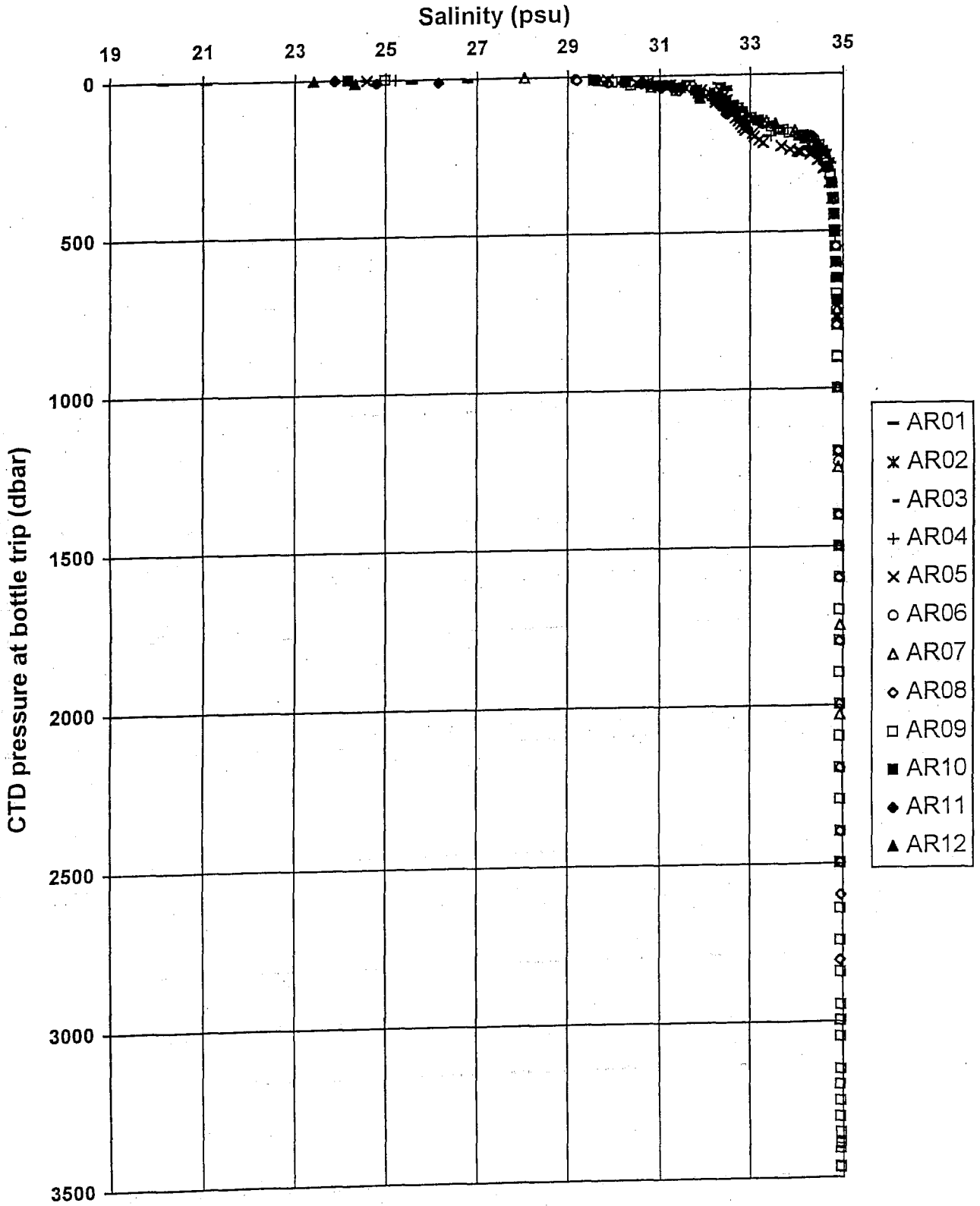
# CRUISE 9526 - SALINITY PROFILES



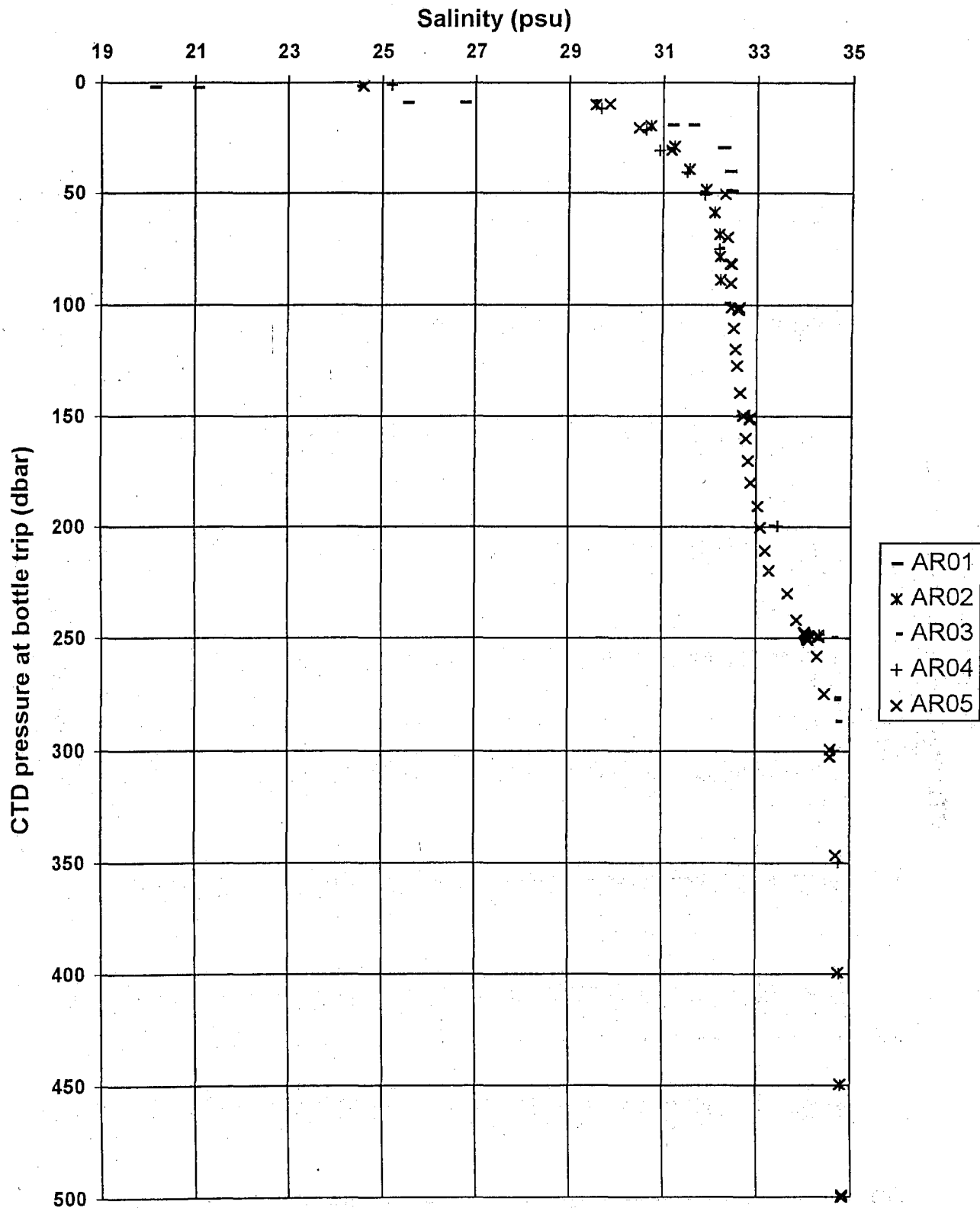
# CRUISE 9526 - SALINITY PROFILES



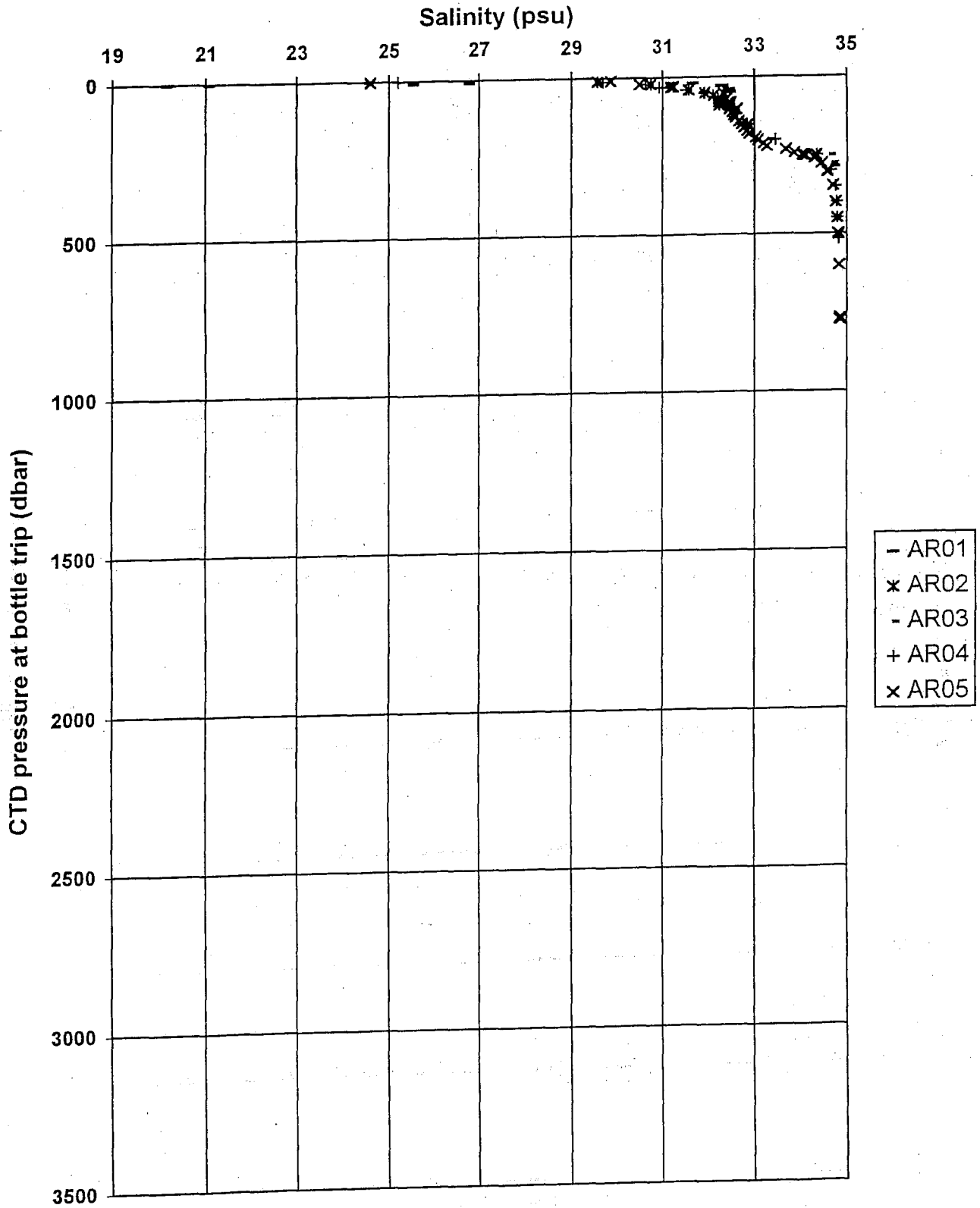
# CRUISE 9526 - SALINITY PROFILES



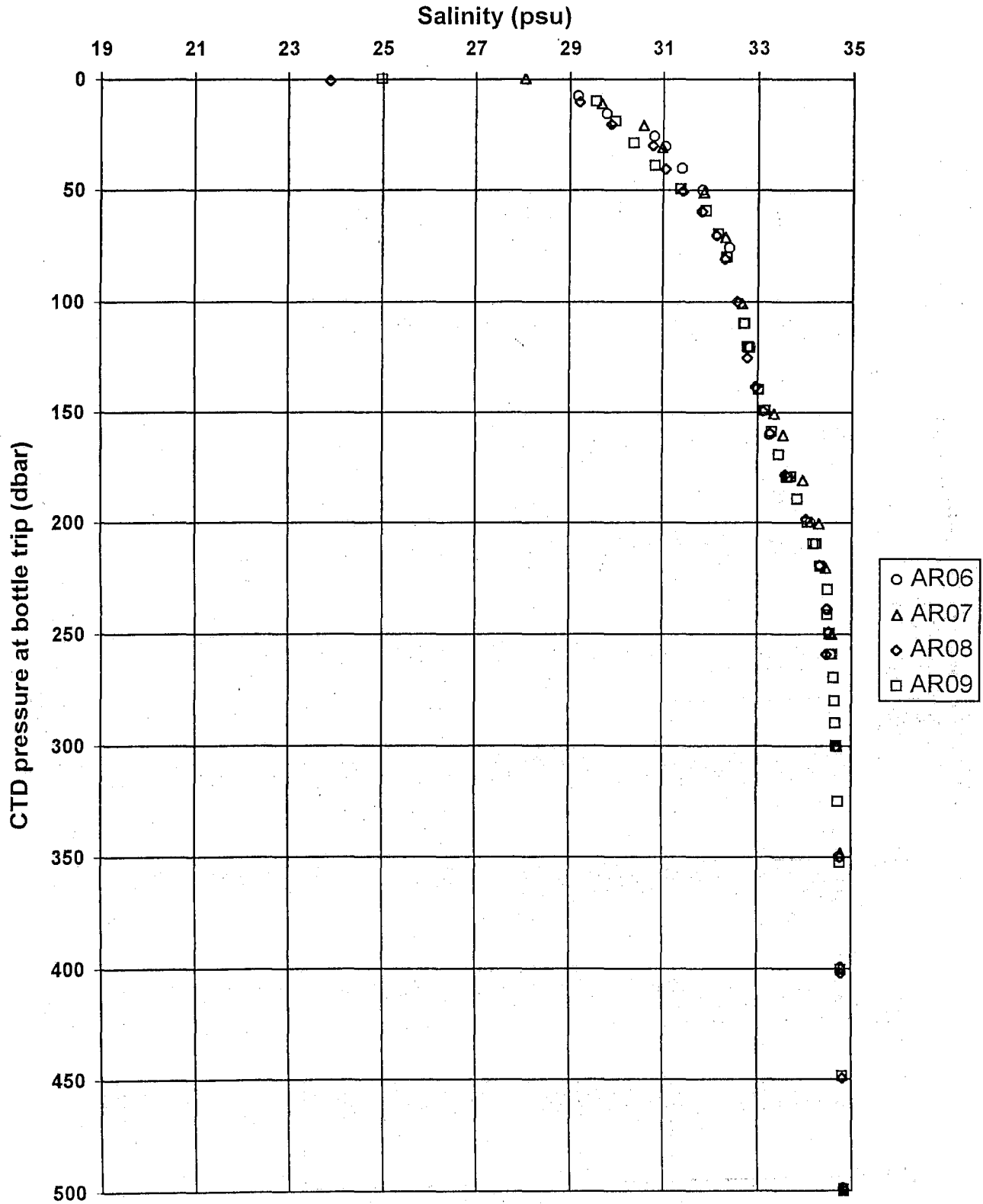
# CRUISE 9526 - SALINITY PROFILES



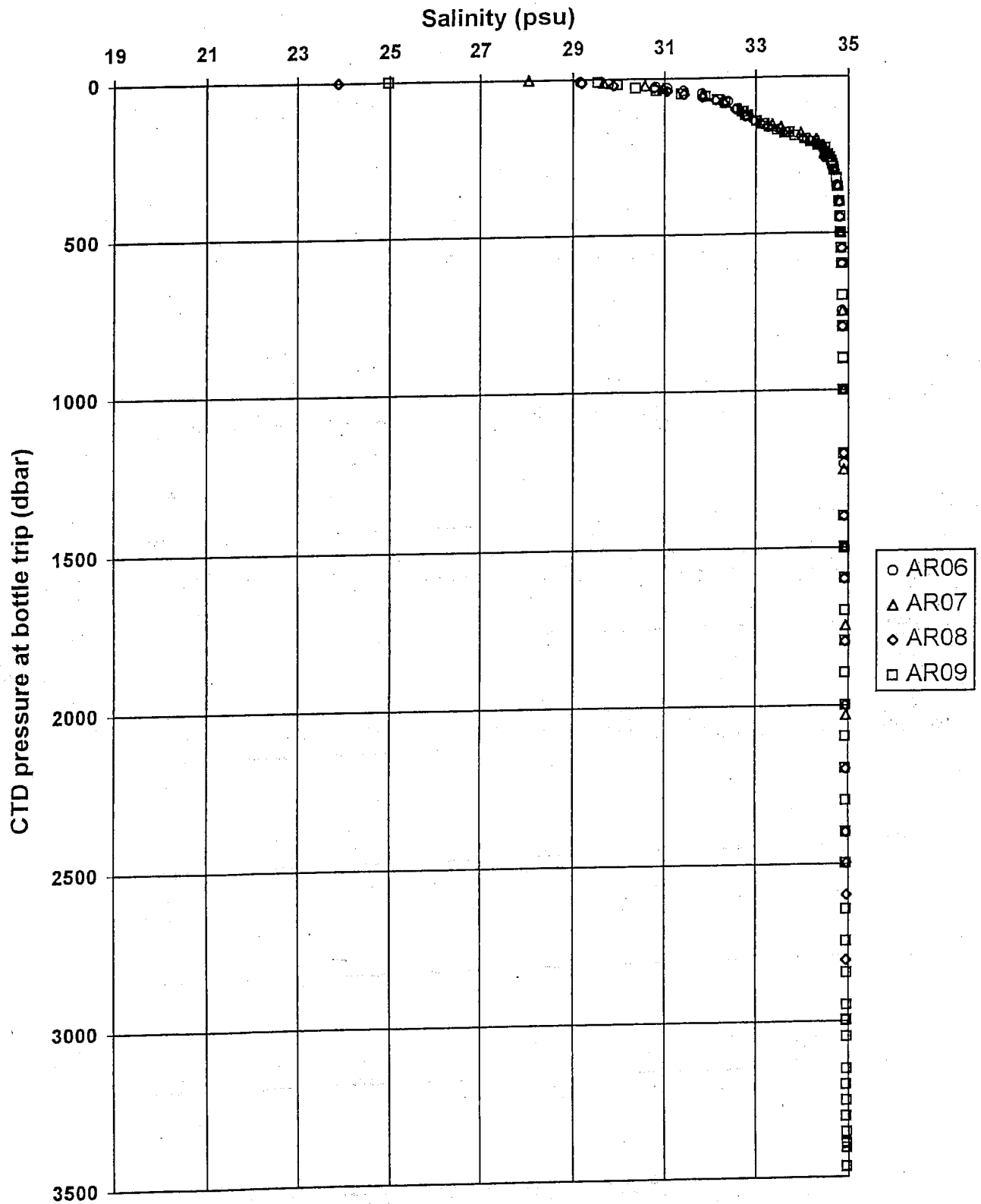
# CRUISE 9526 - SALINITY PROFILES



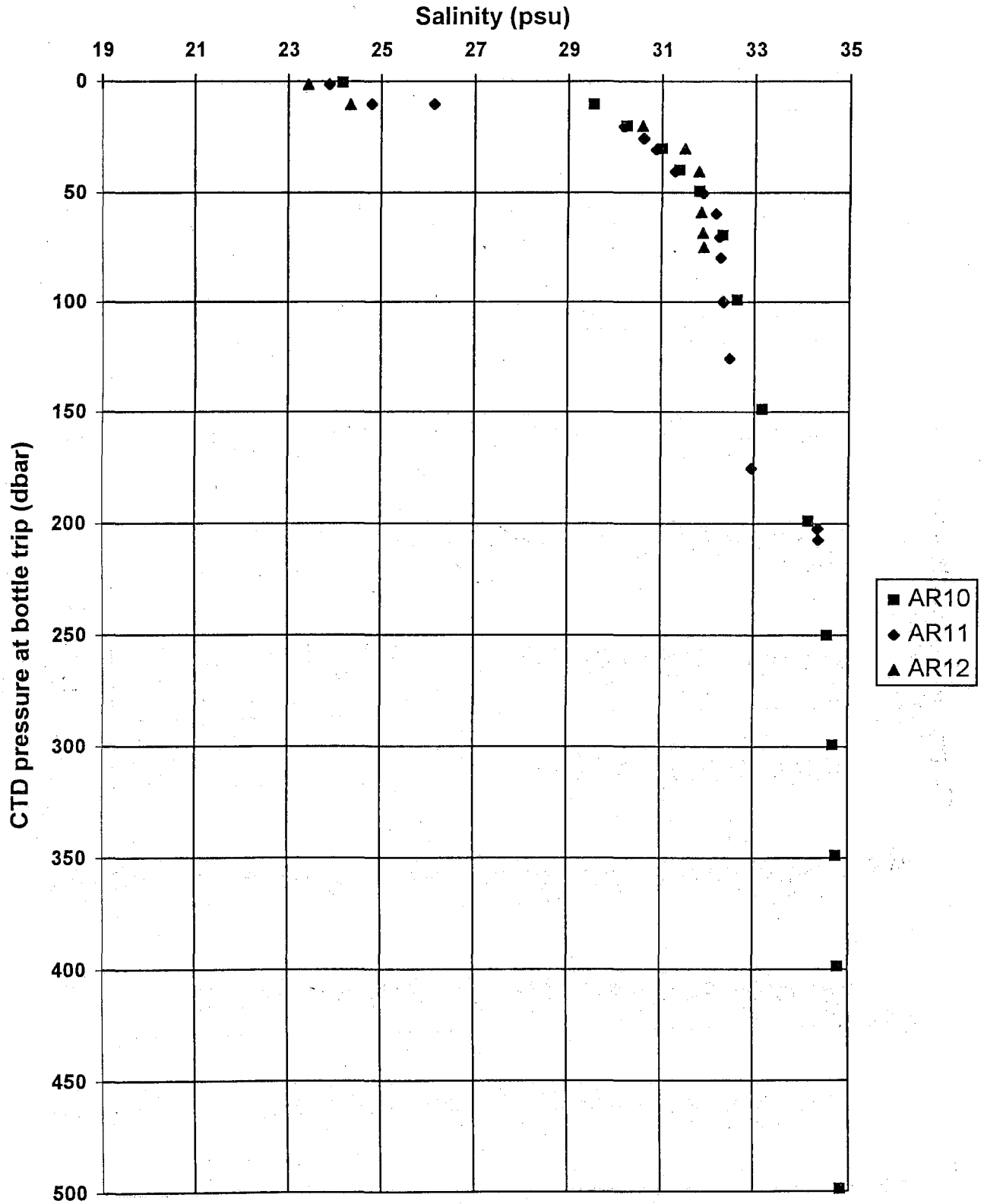
# CRUISE 9526 - SALINITY PROFILES



# CRUISE 9526 - SALINITY PROFILES

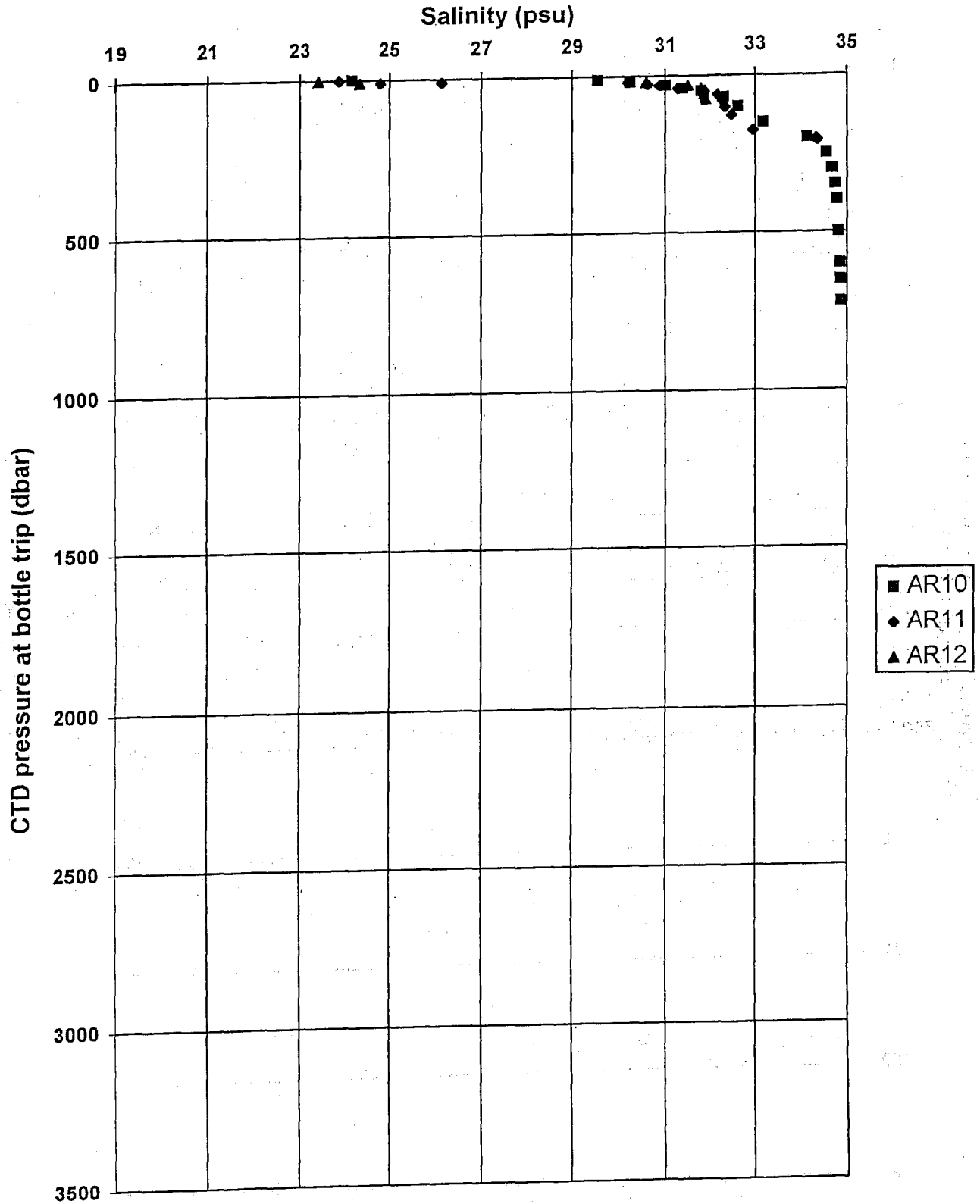


# CRUISE 9526 - SALINITY PROFILES

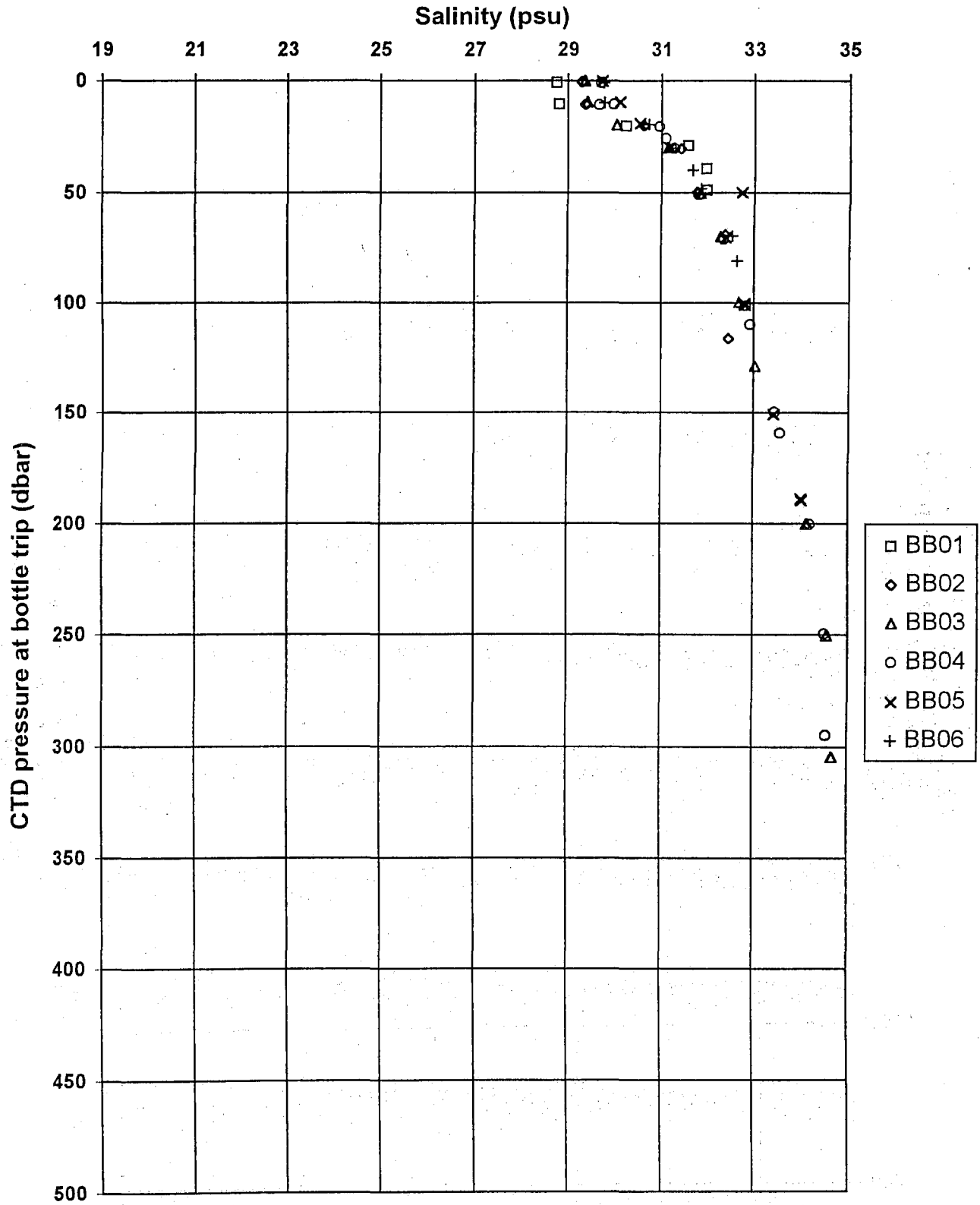




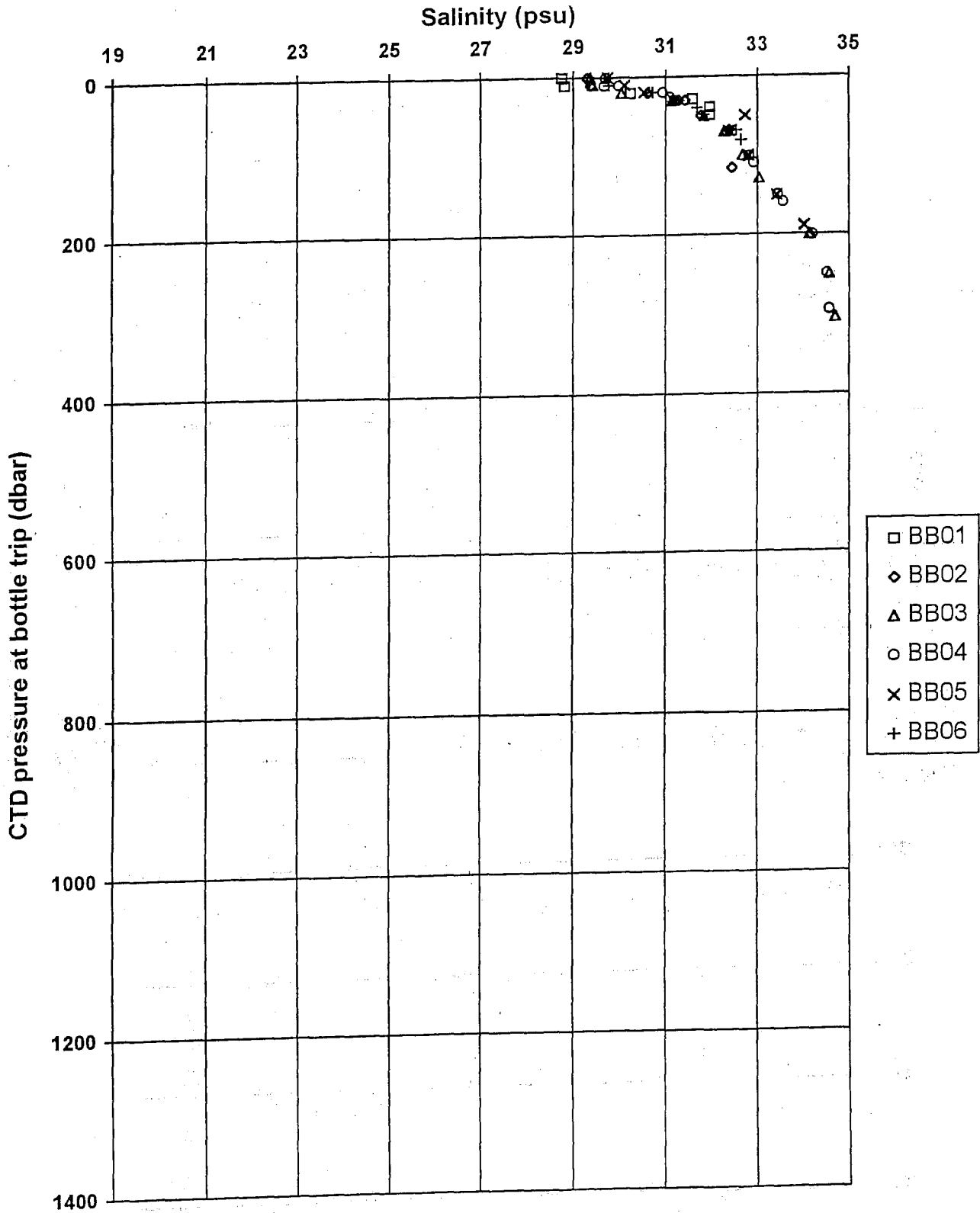
# CRUISE 9526 - SALINITY PROFILES



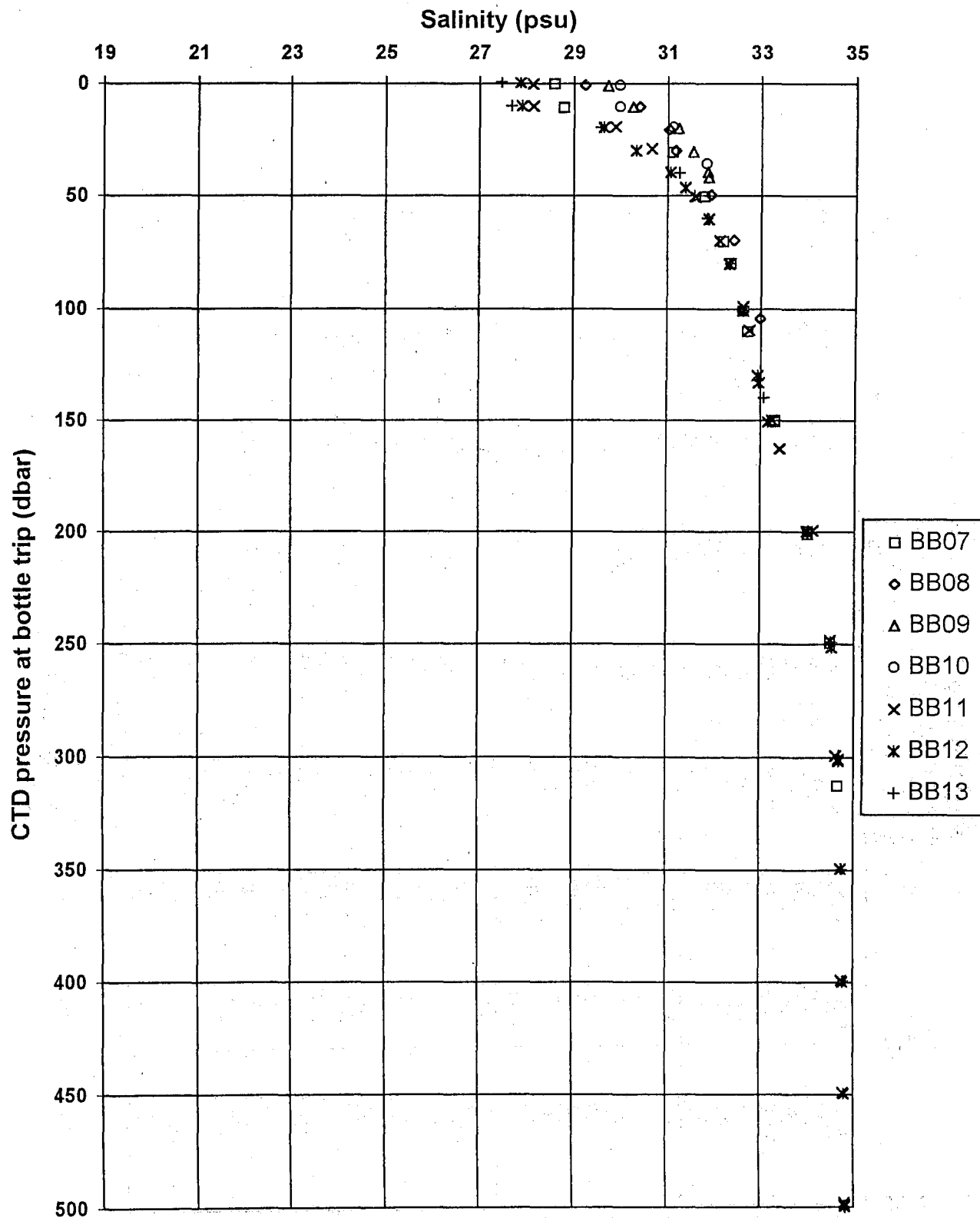
# CRUISE 9526 - SALINITY PROFILES



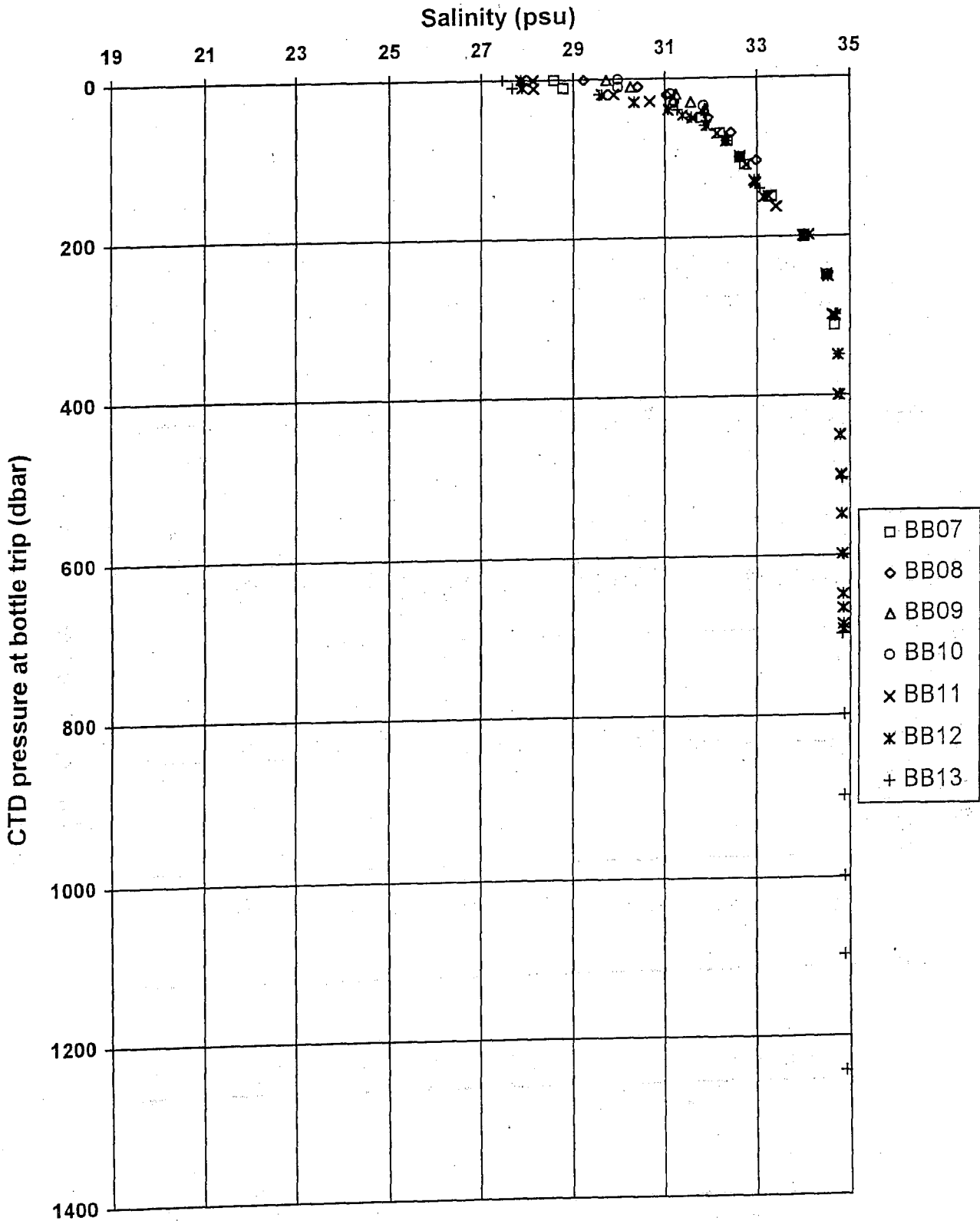
# CRUISE 9526 - SALINITY PROFILES



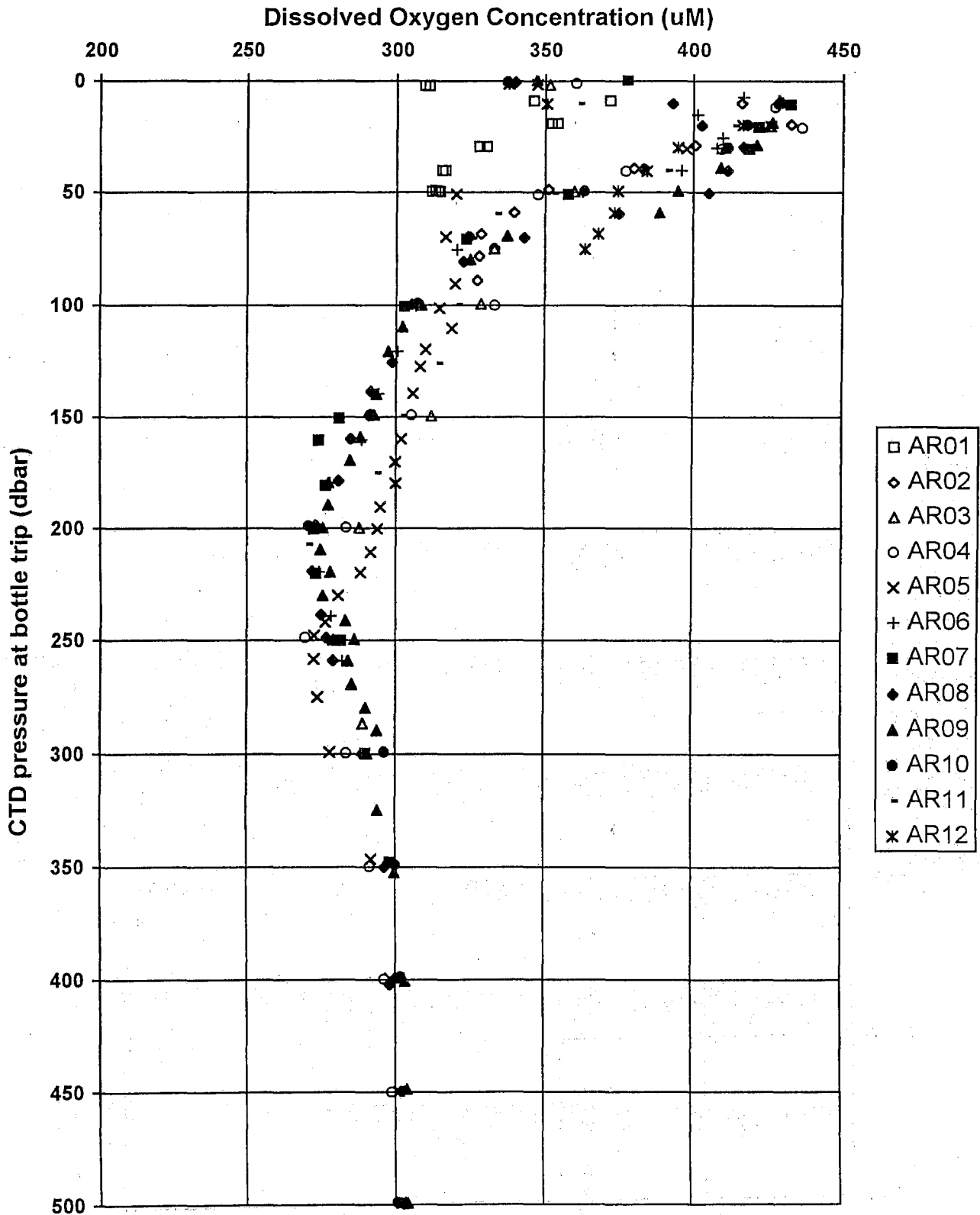
# CRUISE 9526 - SALINITY PROFILES



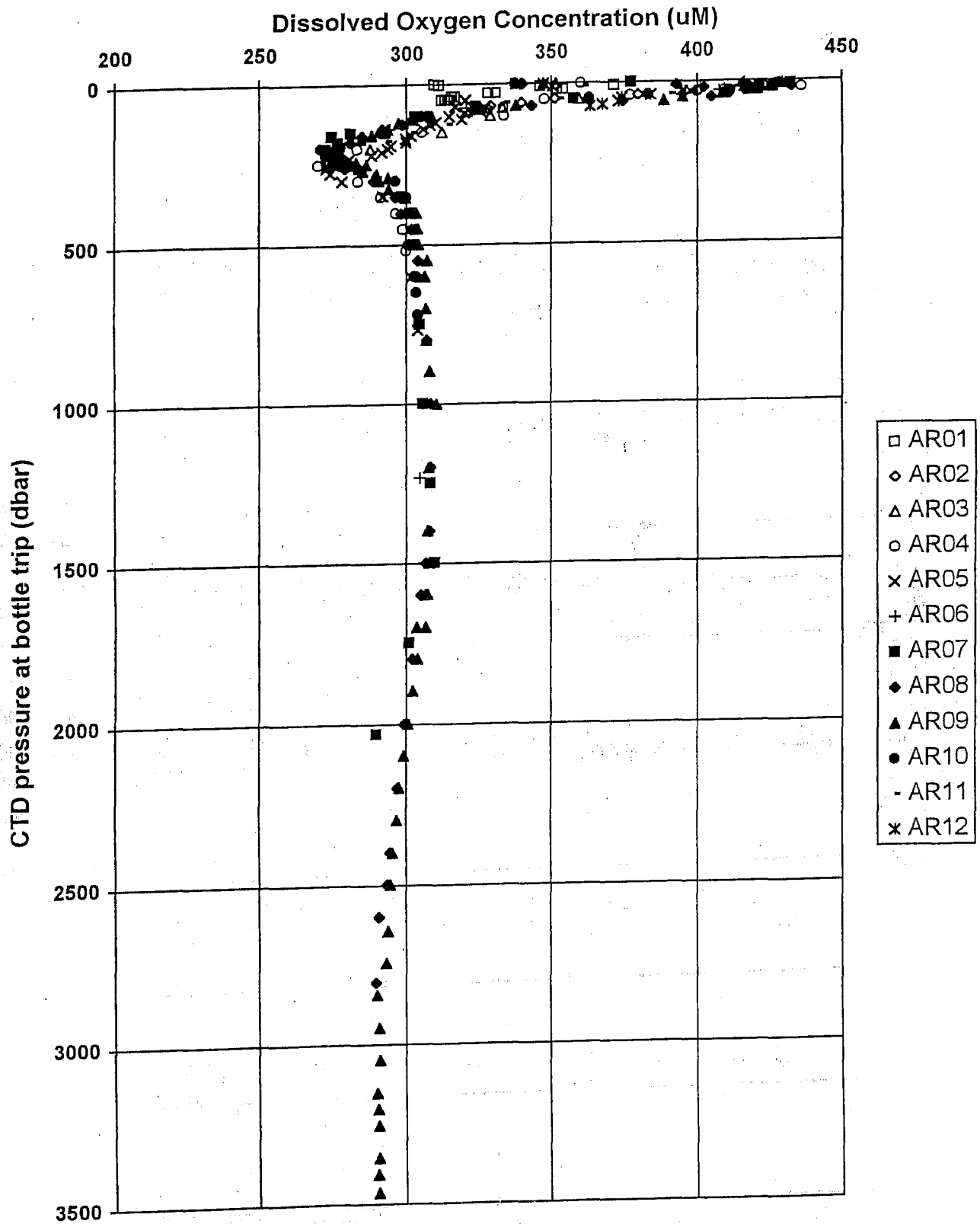
# CRUISE 9526 - SALINITY PROFILES



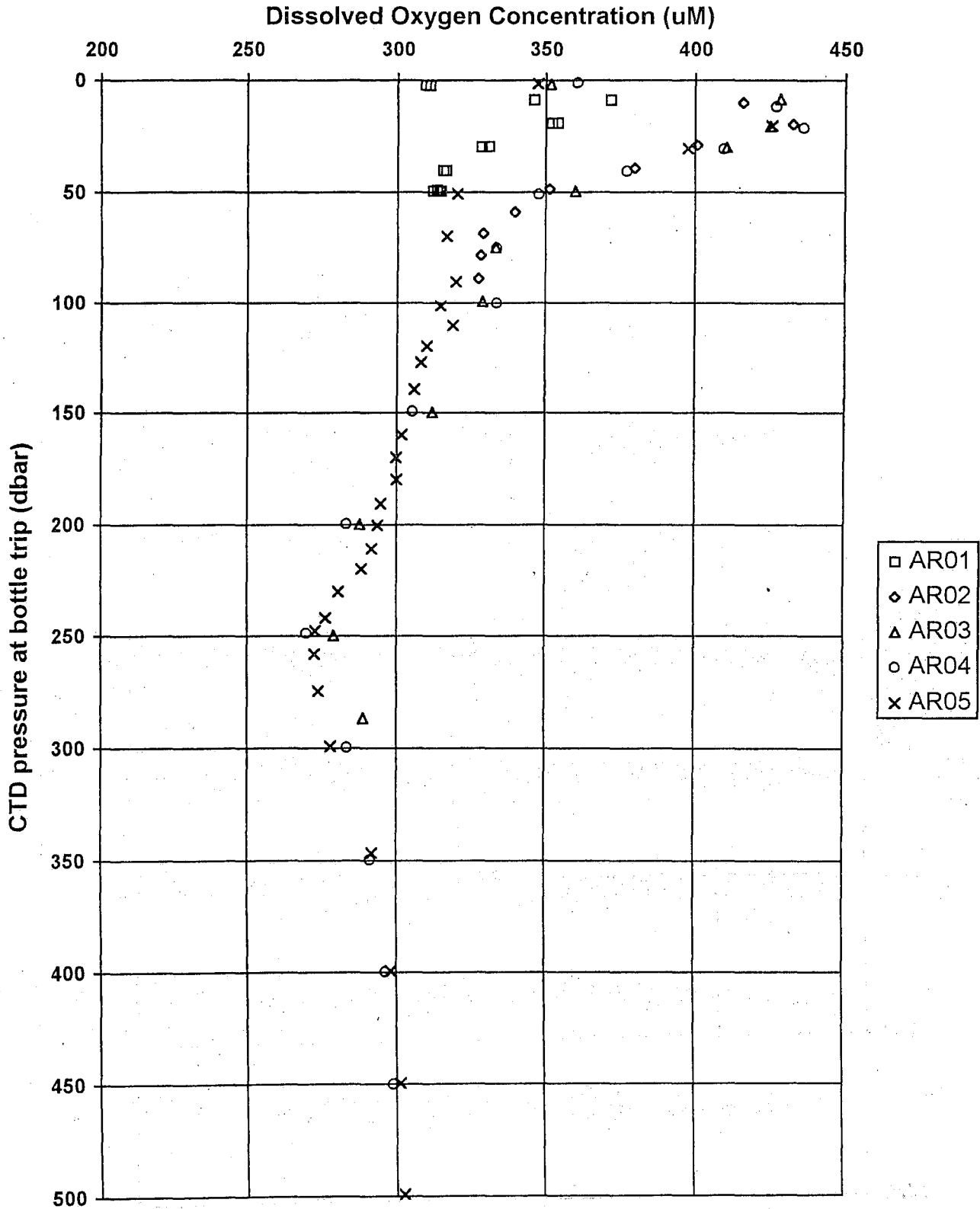
# Cruise 9526 - Oxygen Profiles



# Cruise 9526 - Oxygen Profiles

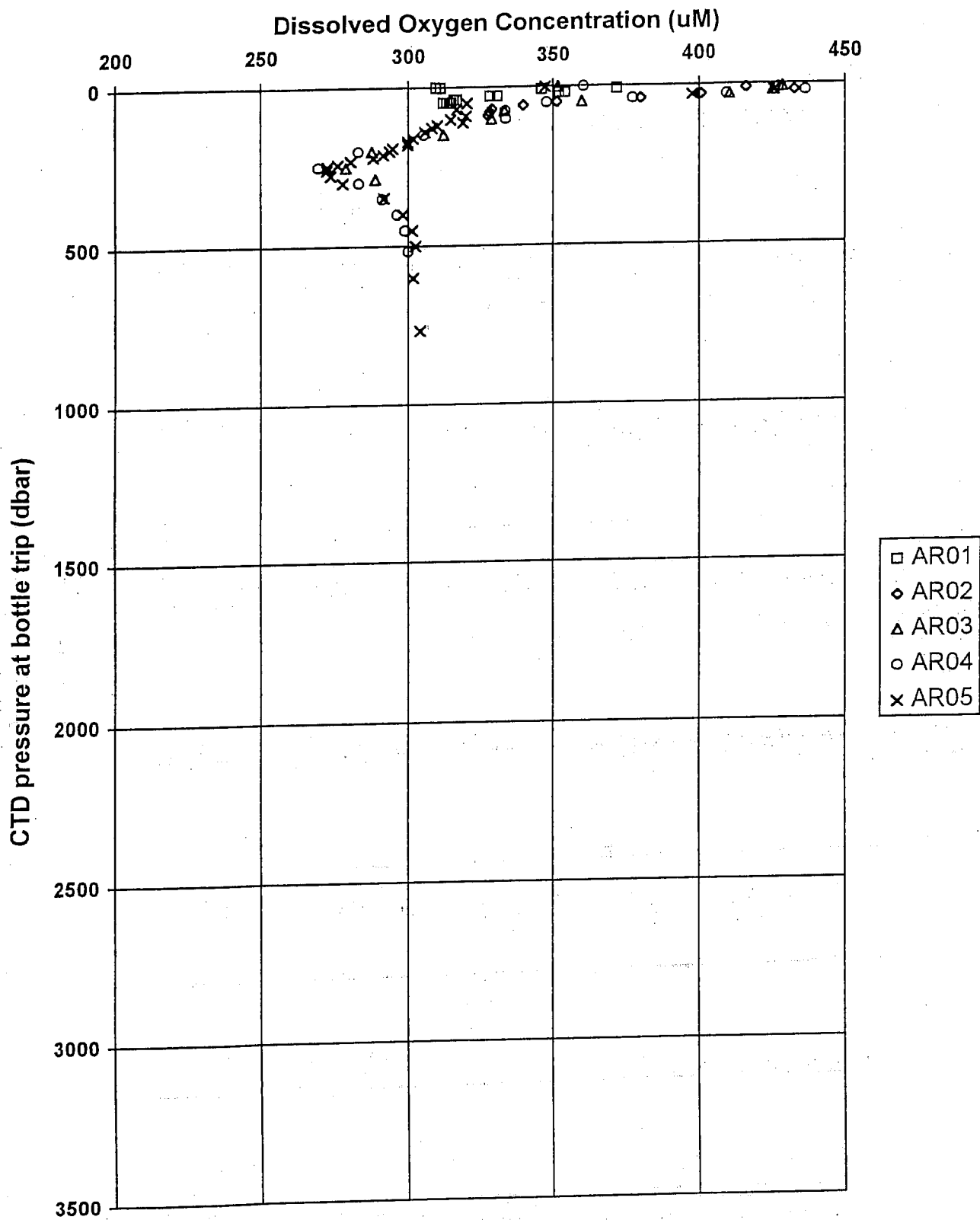


# Cruise 9526 - Oxygen Profiles

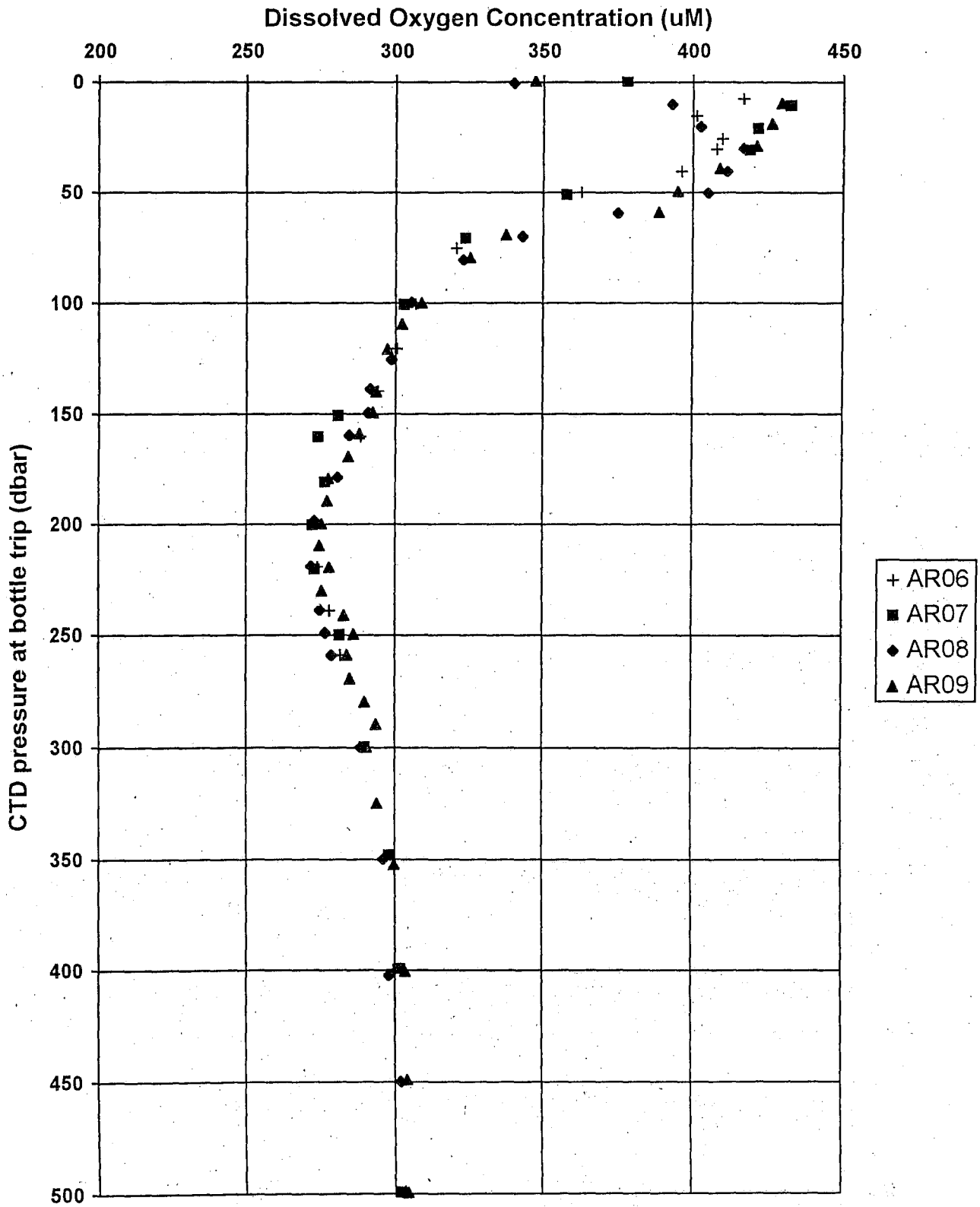




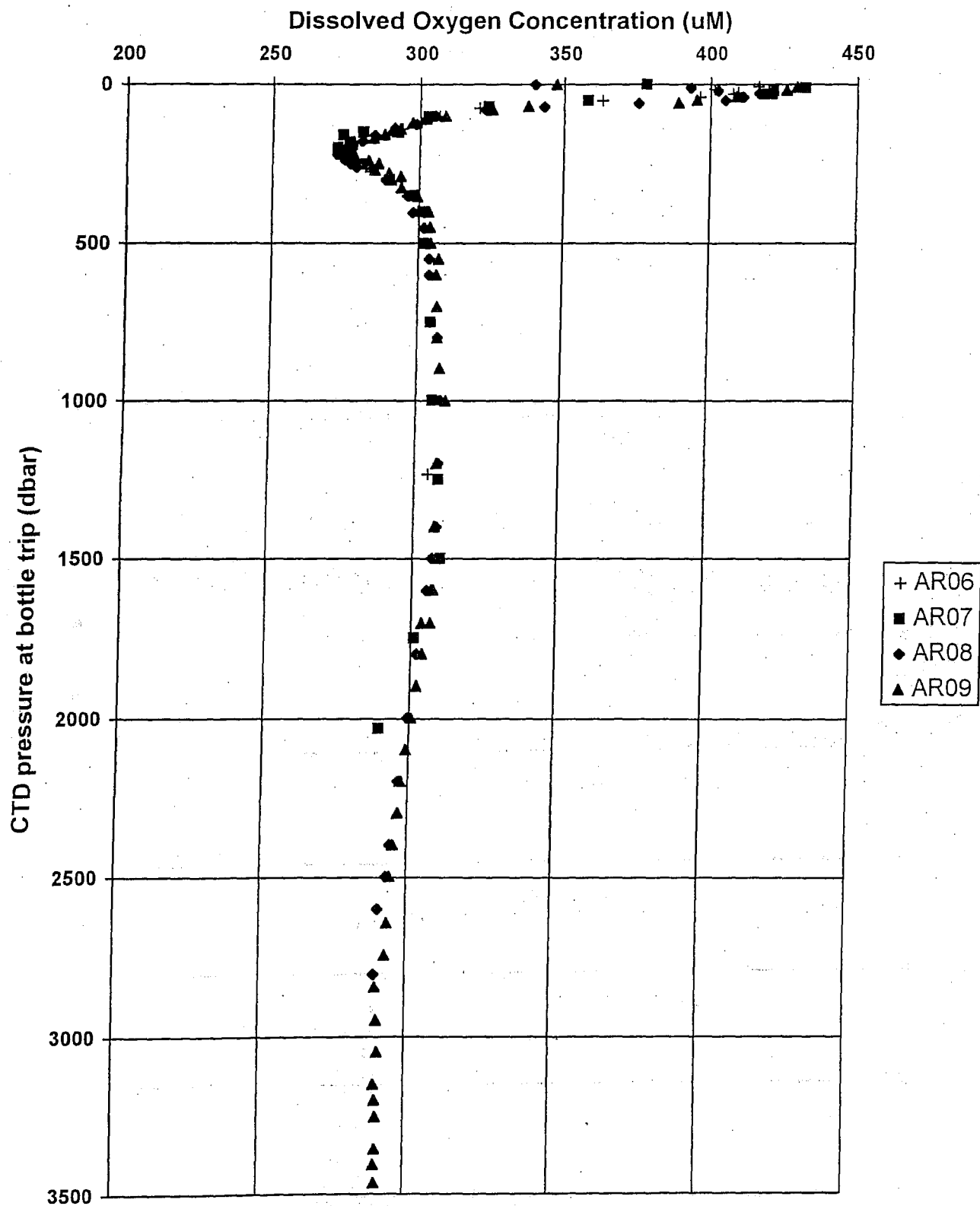
# Cruise 9526 - Oxygen Profiles



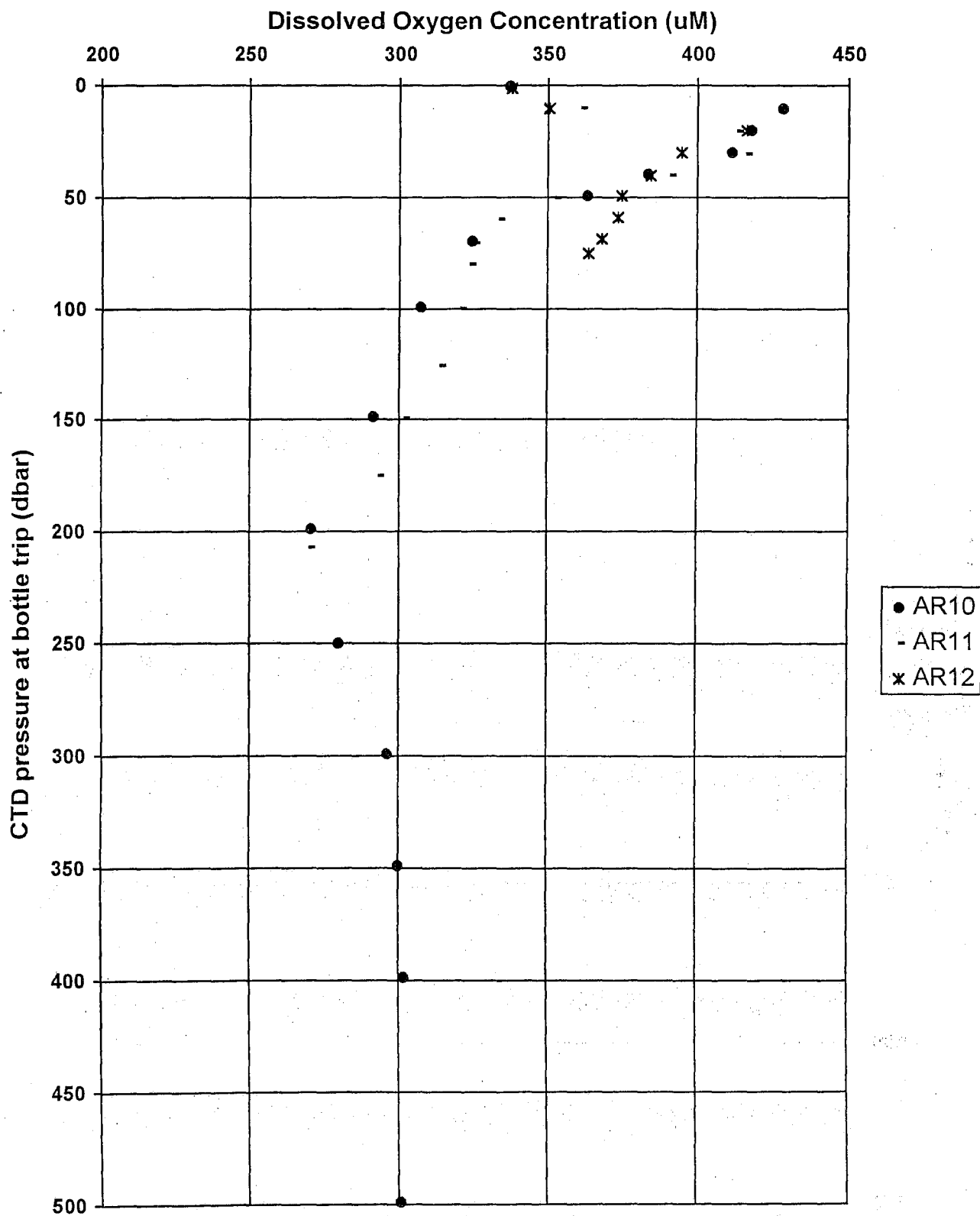
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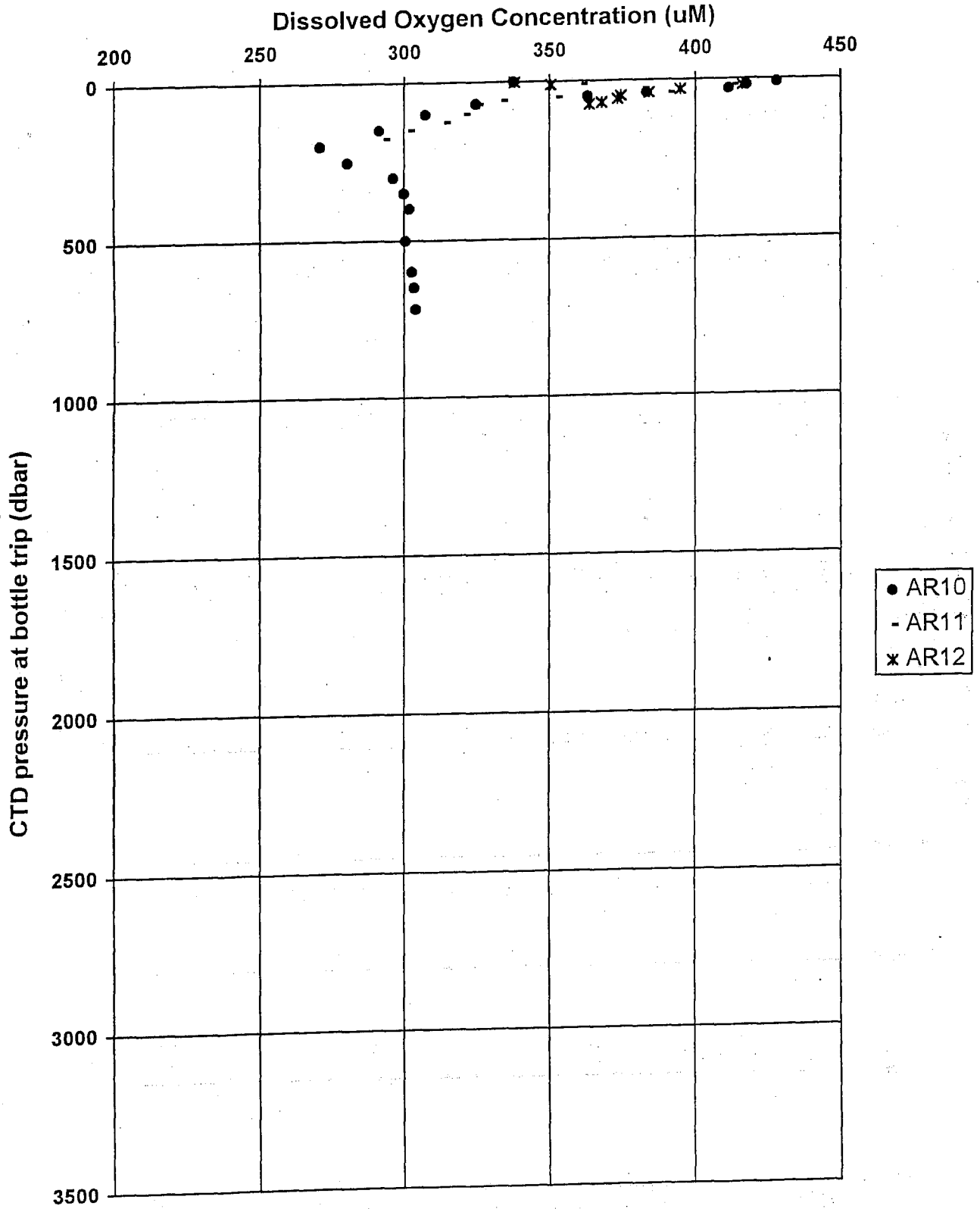
# Cruise 9525 - Oxygen Profiles



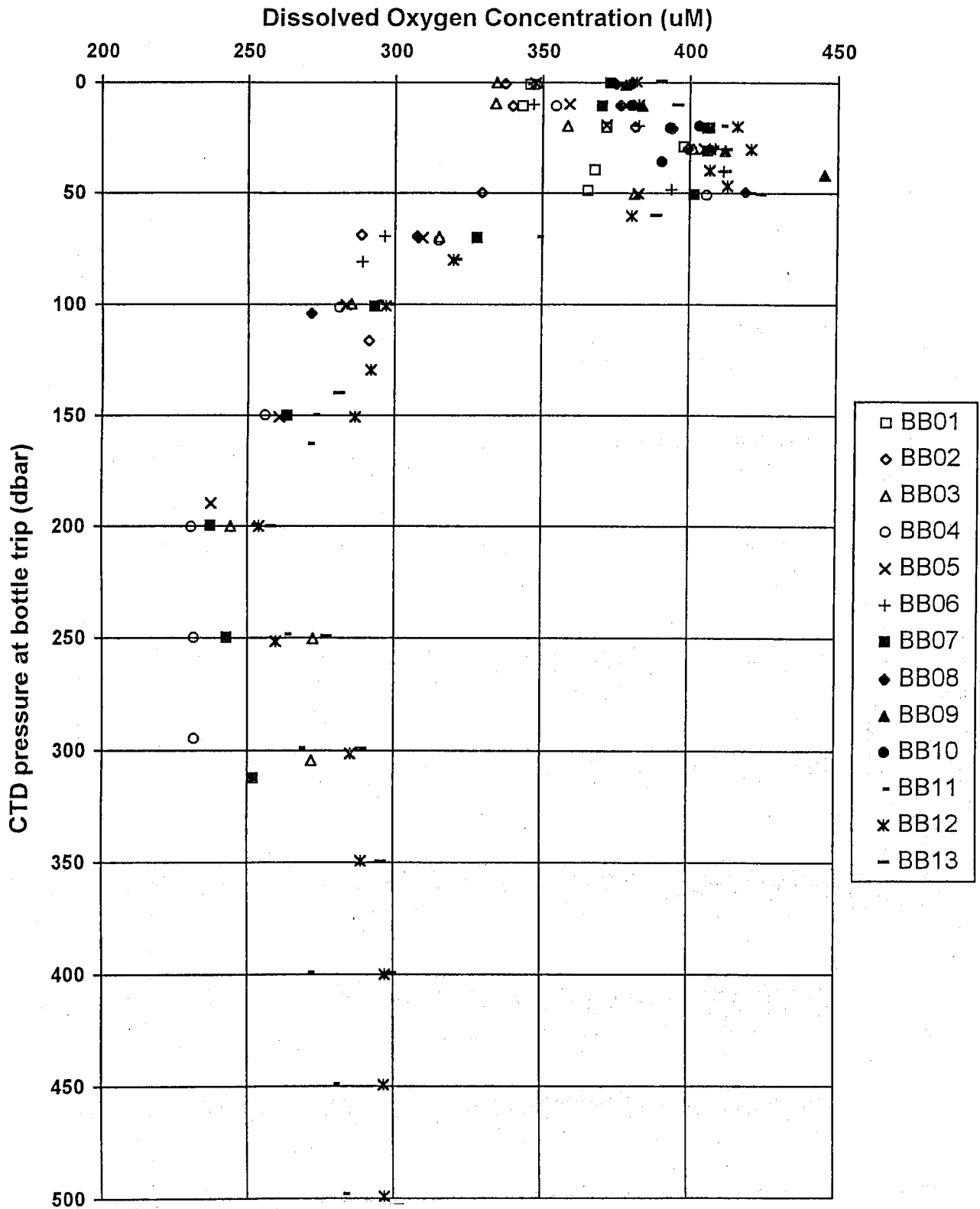
# Cruise 9526 - Oxygen Profiles



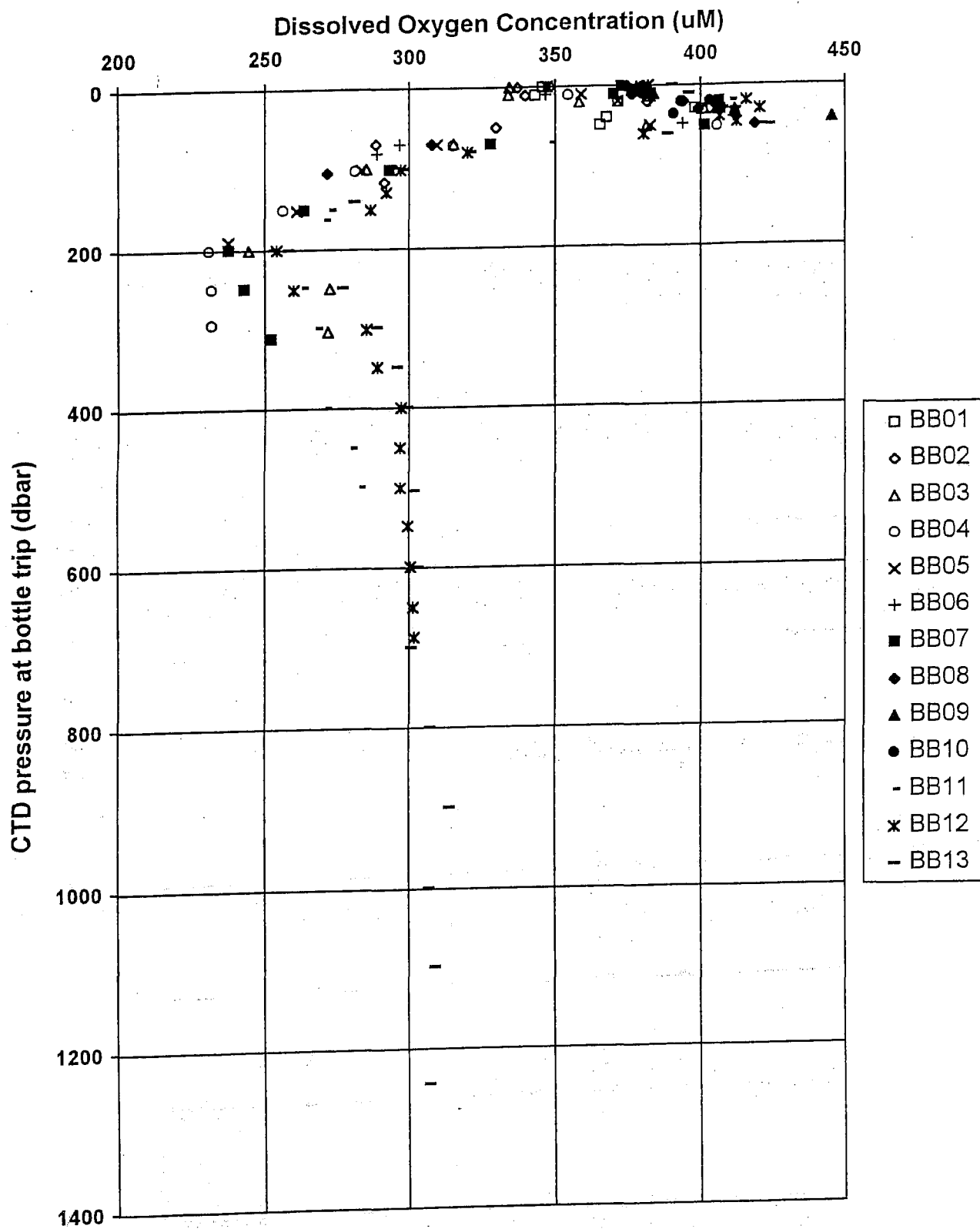
# Cruise 9526 - Oxygen Profiles



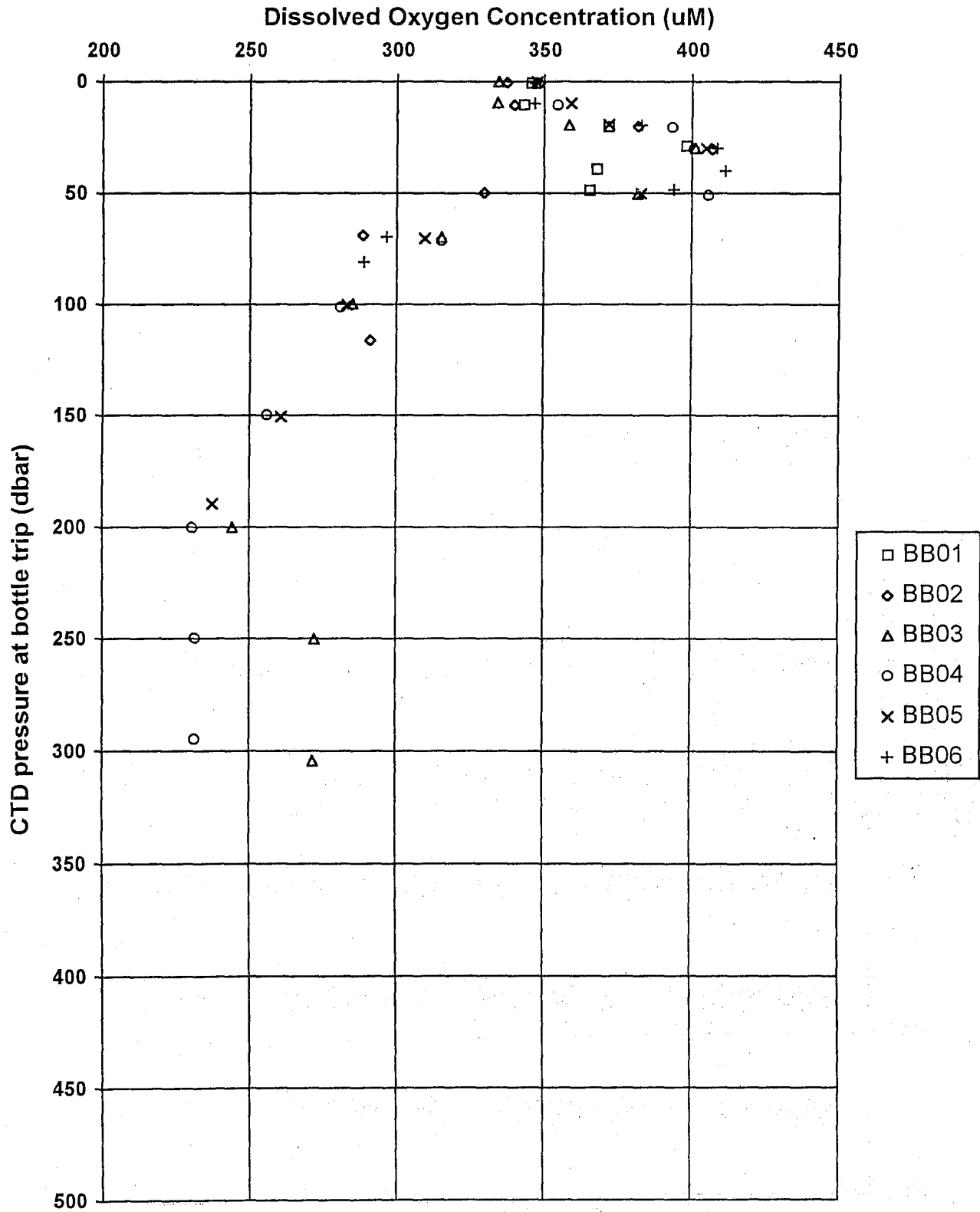
# Cruise 9526 - Oxygen Profiles



# Cruise 9526 - Oxygen Profiles

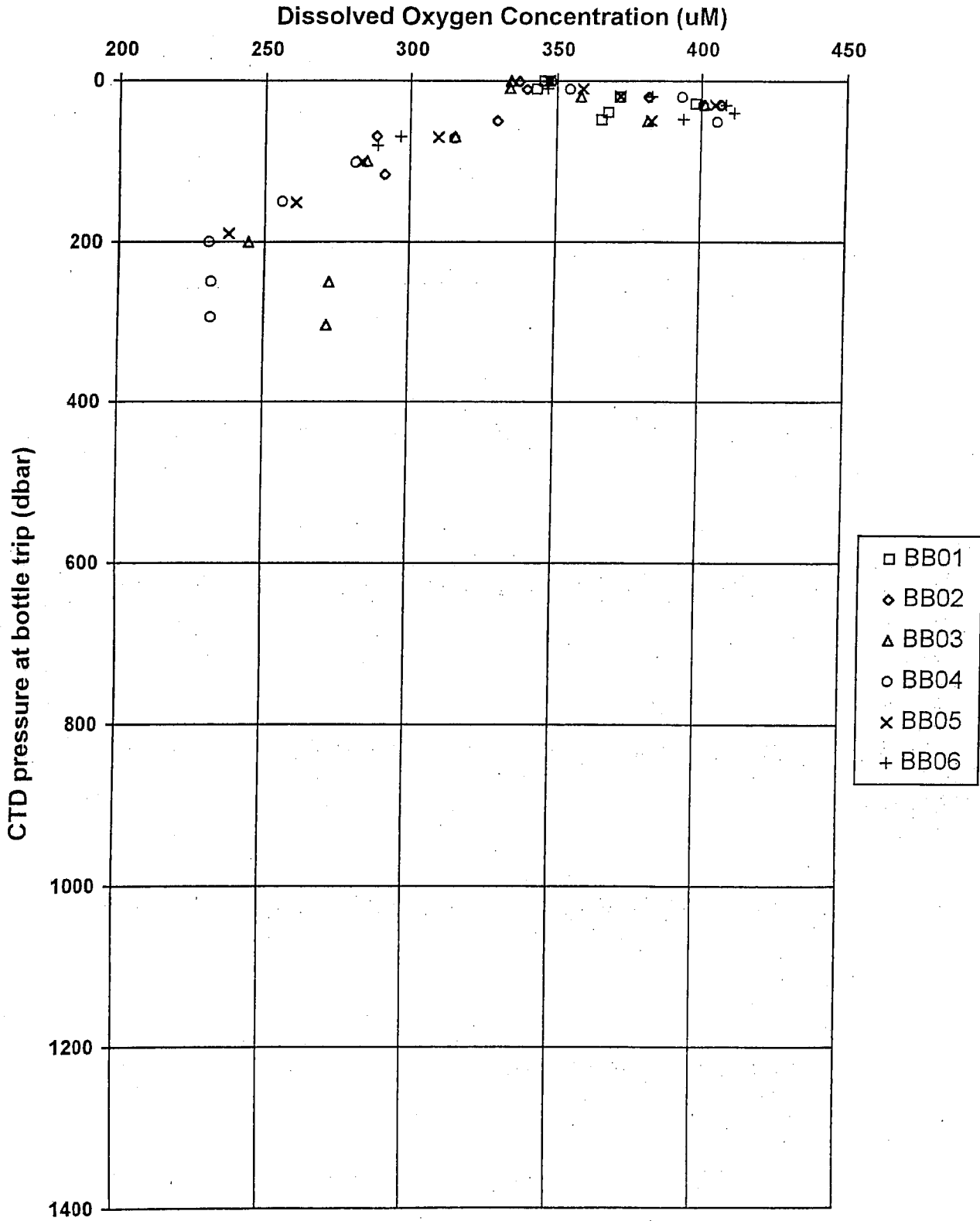


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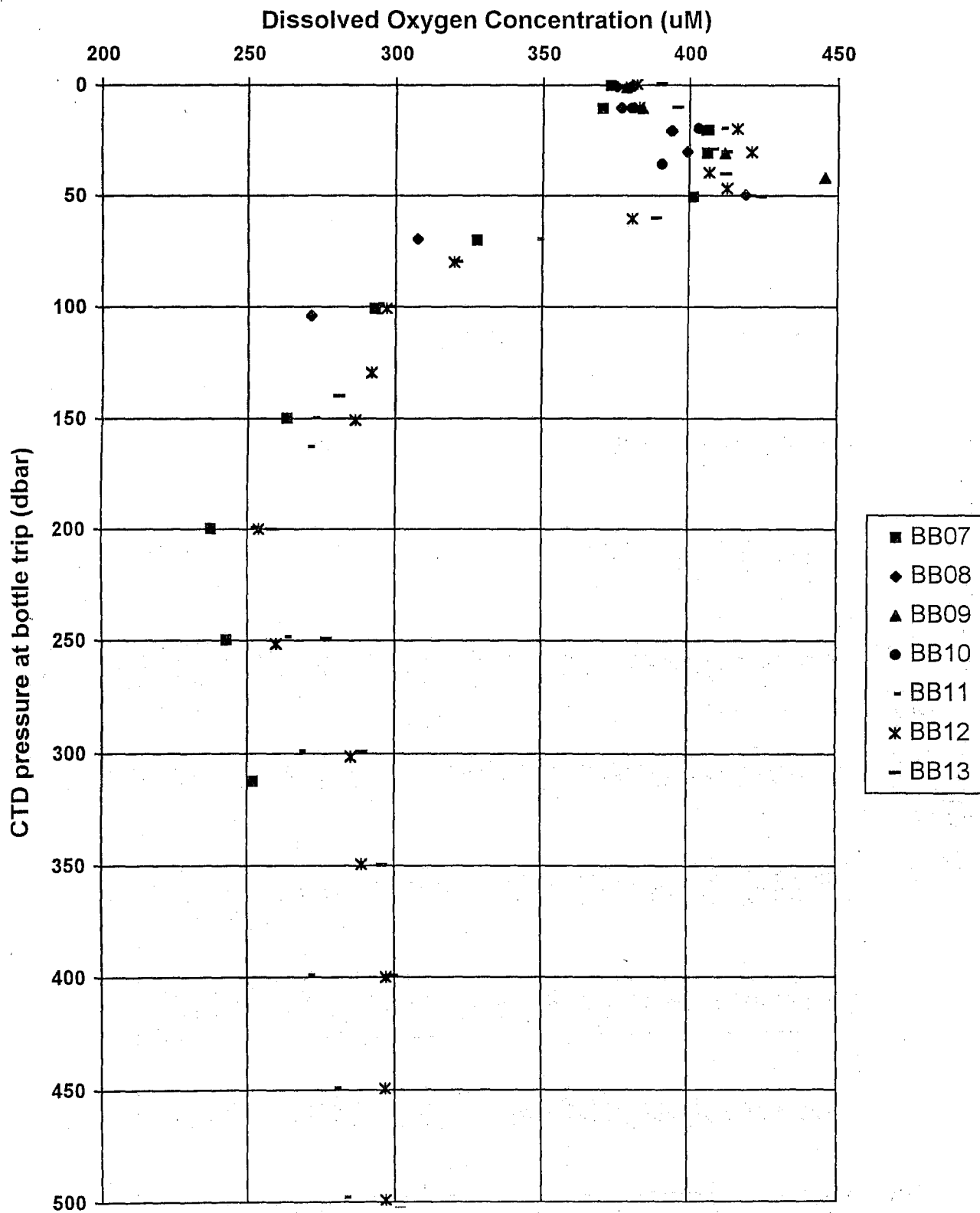




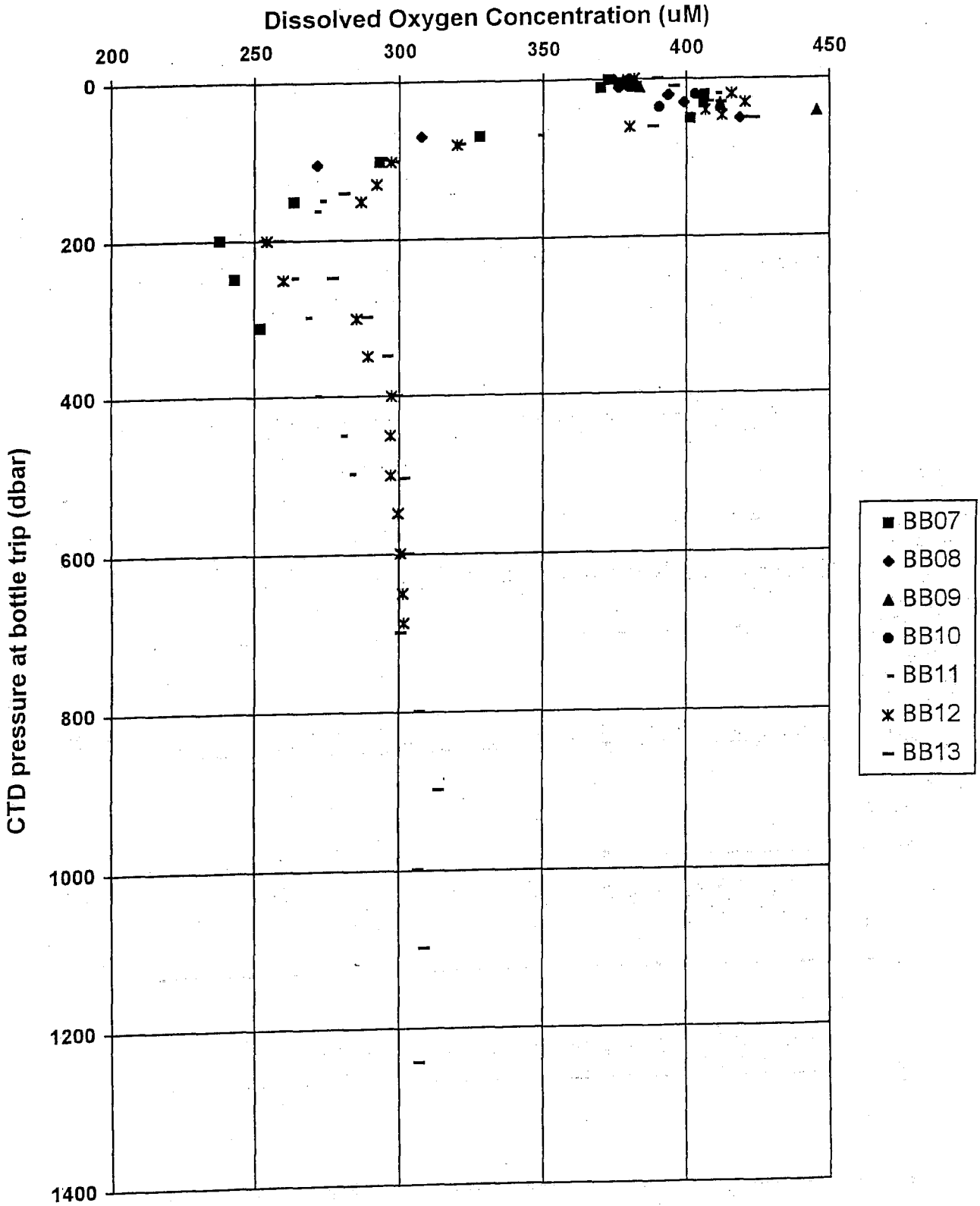
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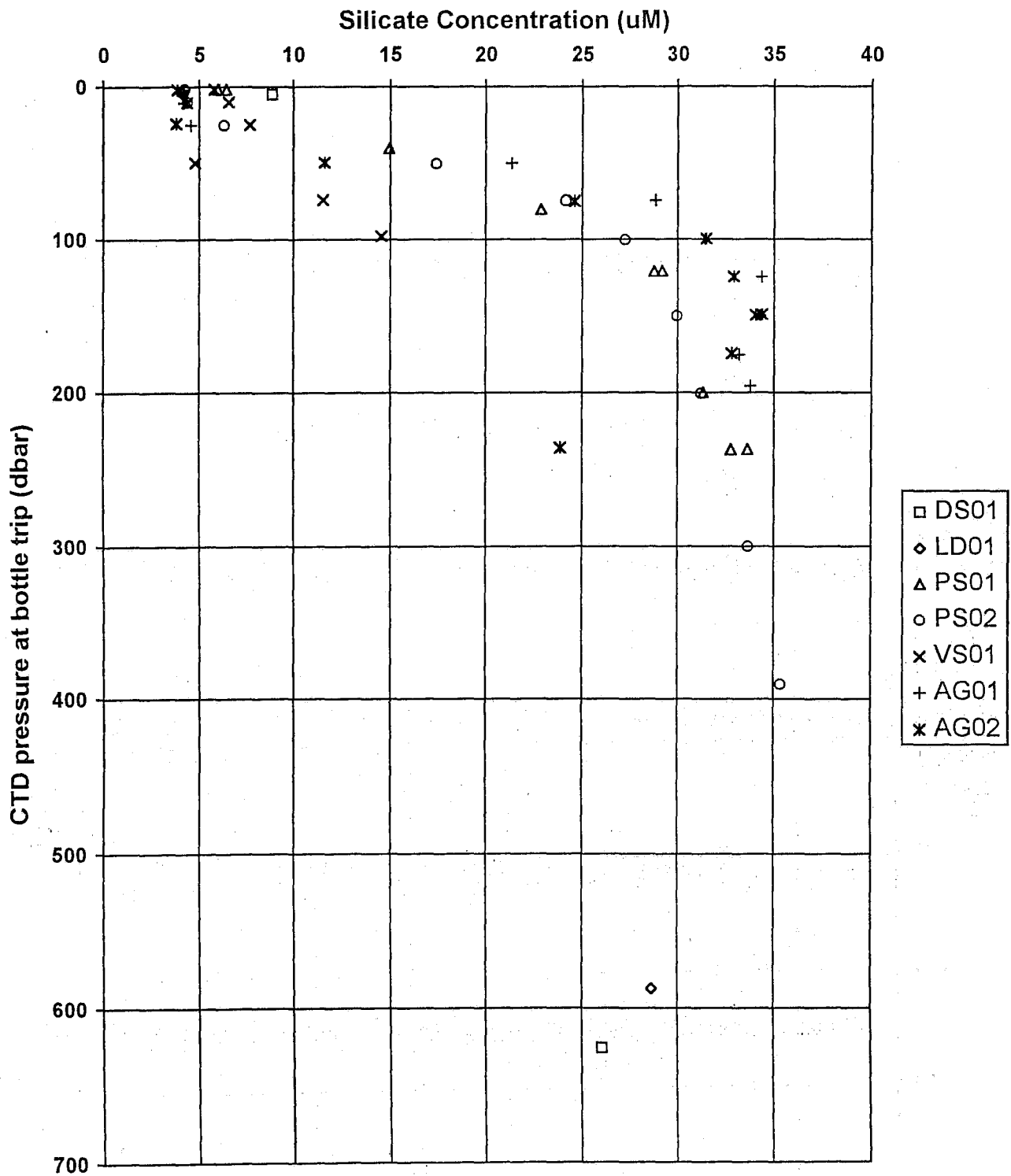
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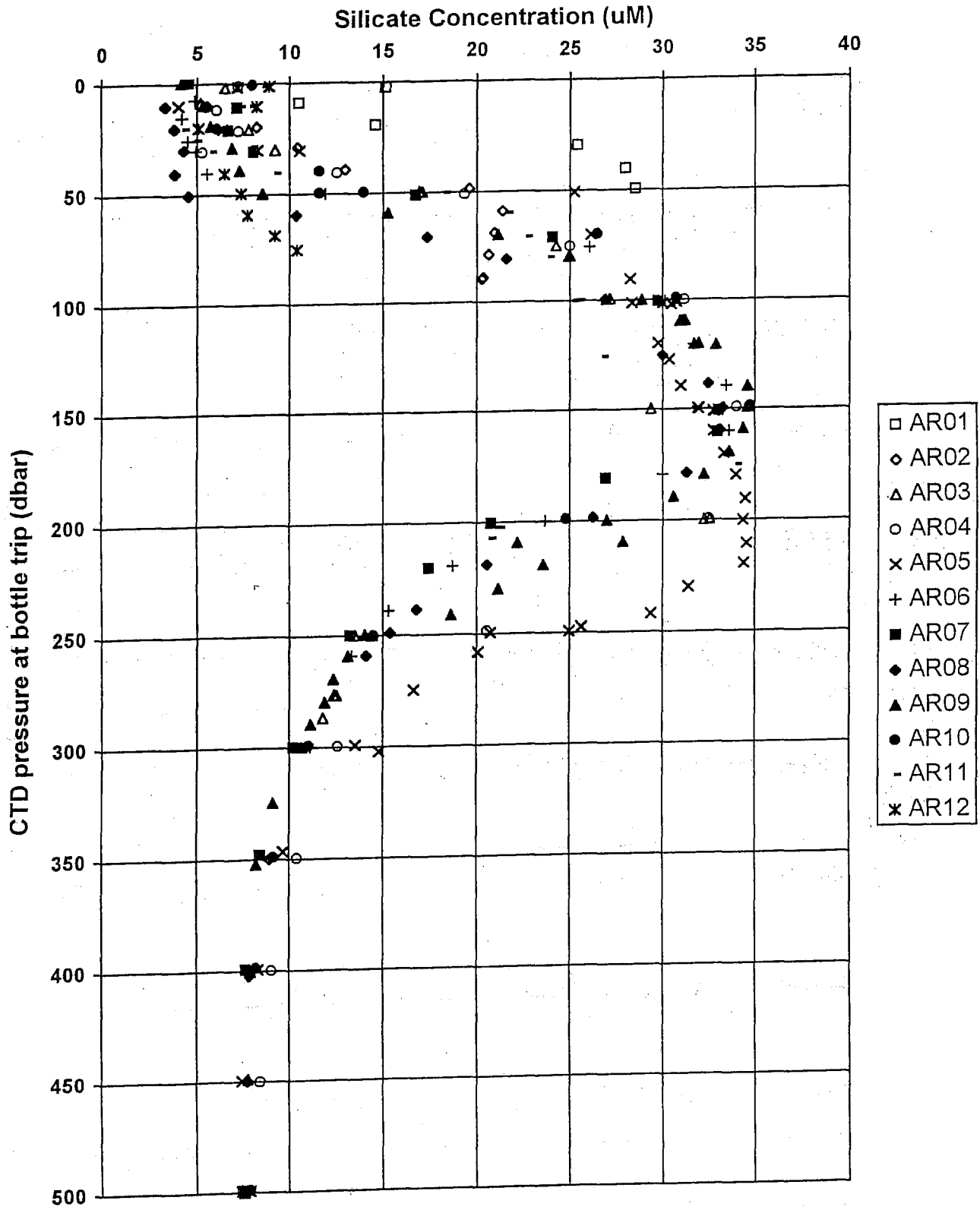
# Cruise 9526 - Oxygen Profiles



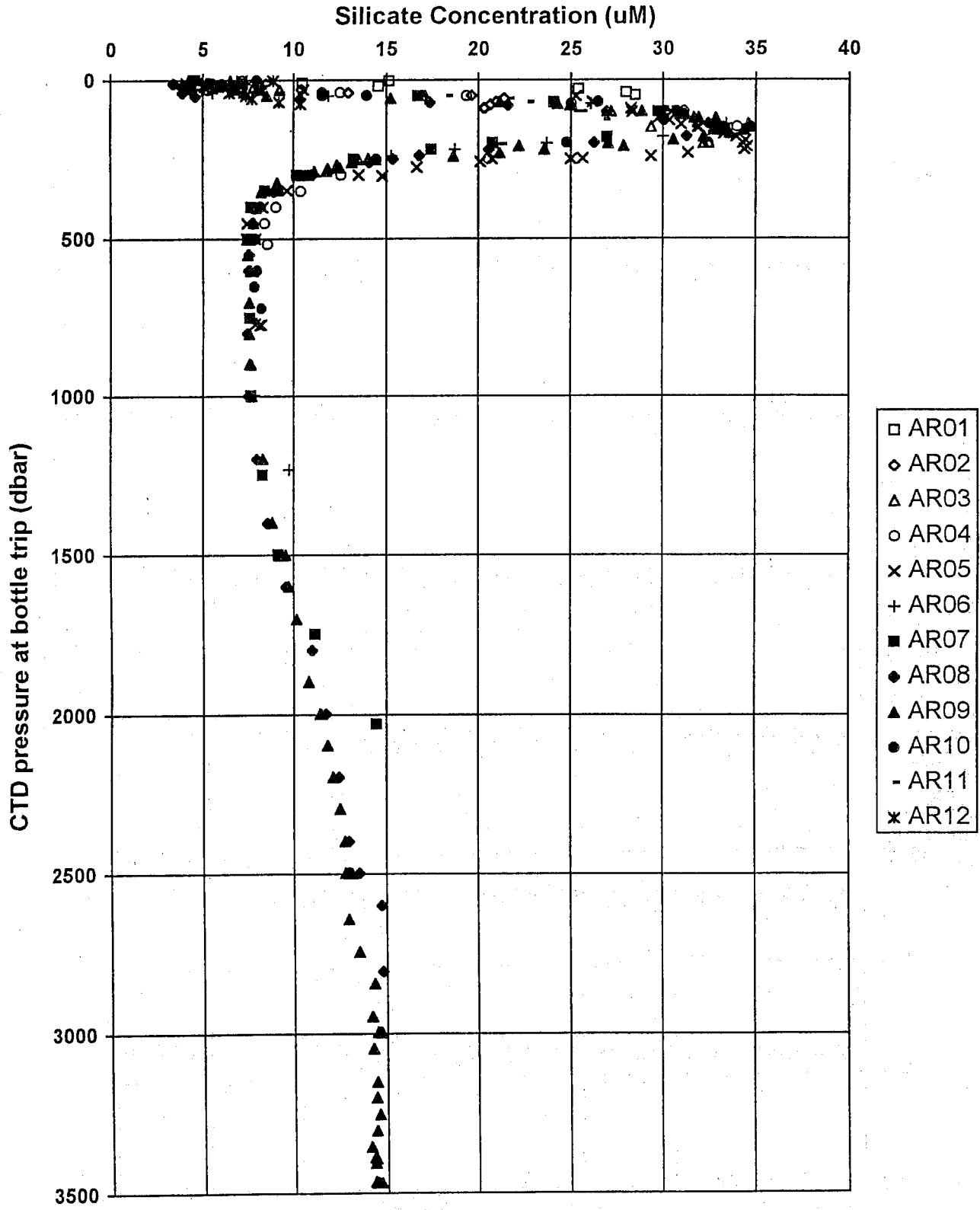
# Cruise 9526 - Silicate Profiles



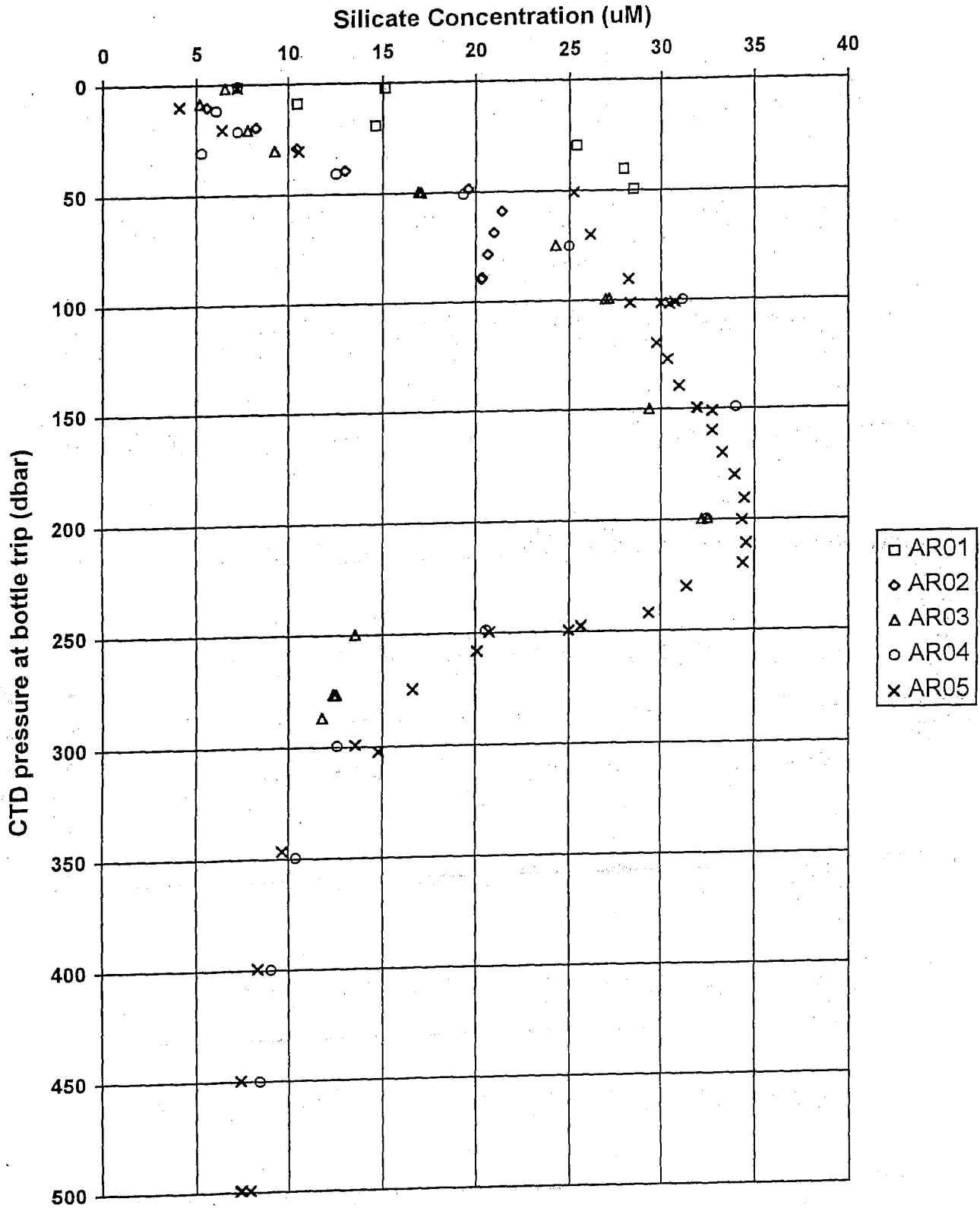
# Cruise 9526 - Silicate Profiles



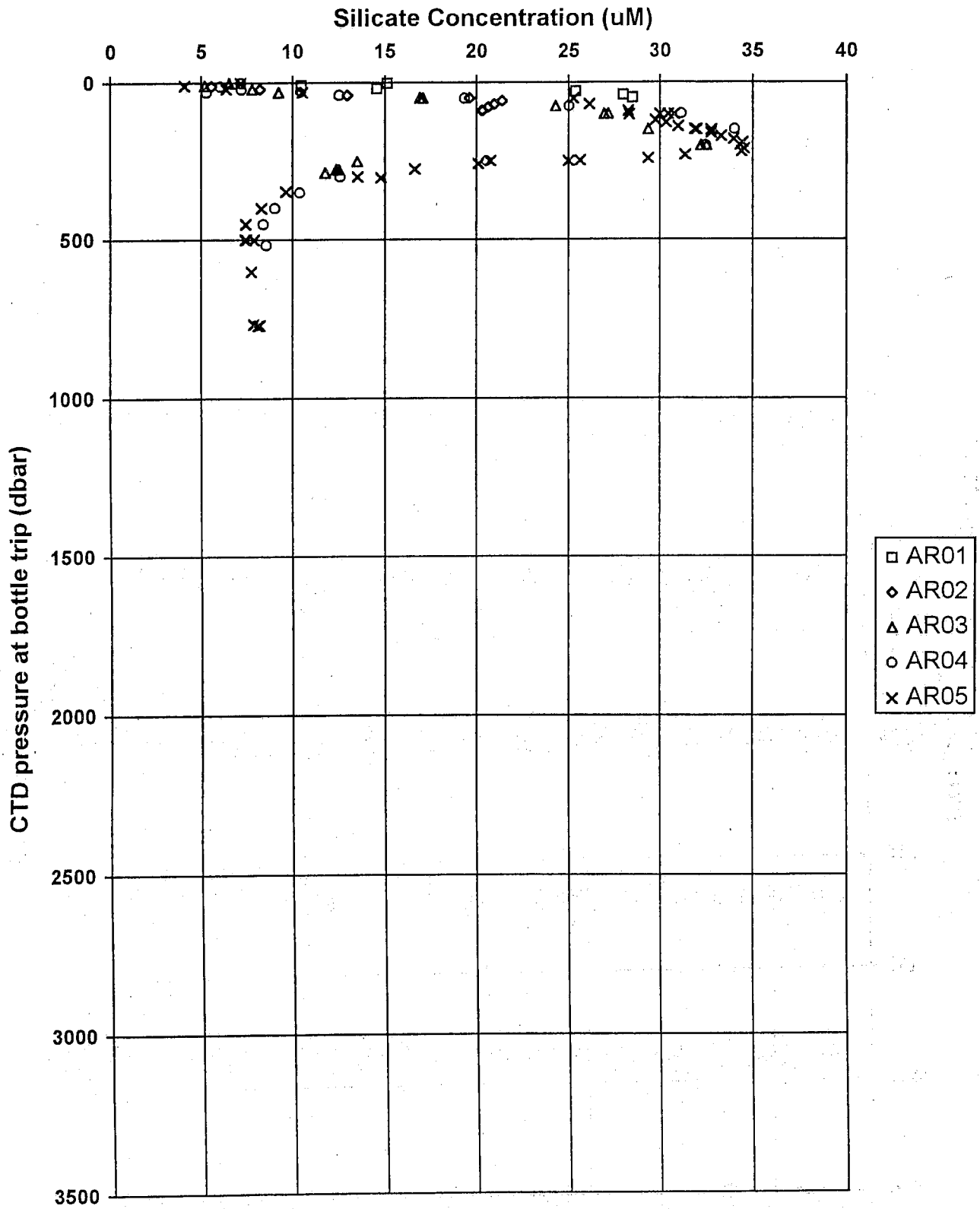
# Cruise 9526 - Silicate Profiles



# Cruise 9526 - Silicate Profiles

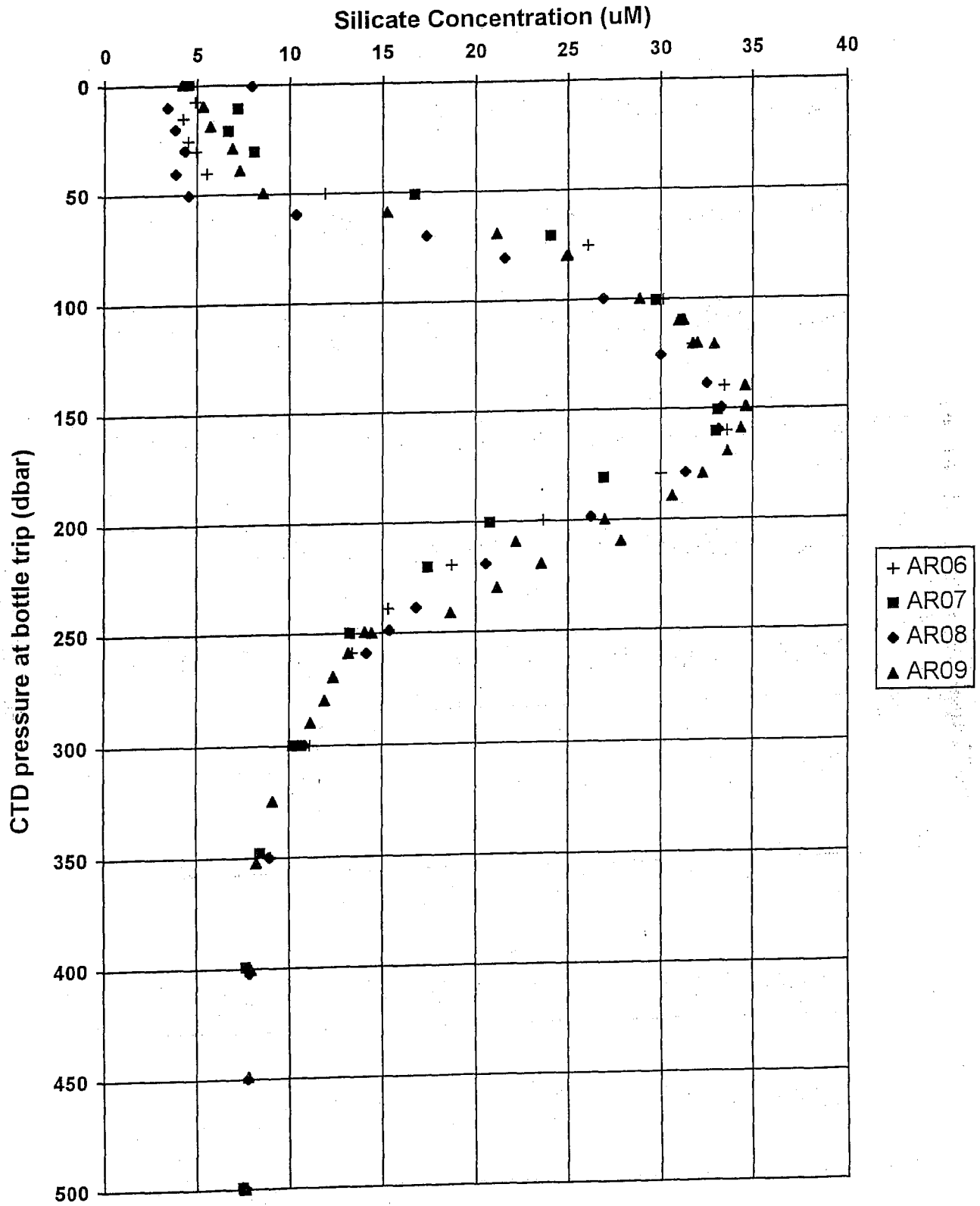


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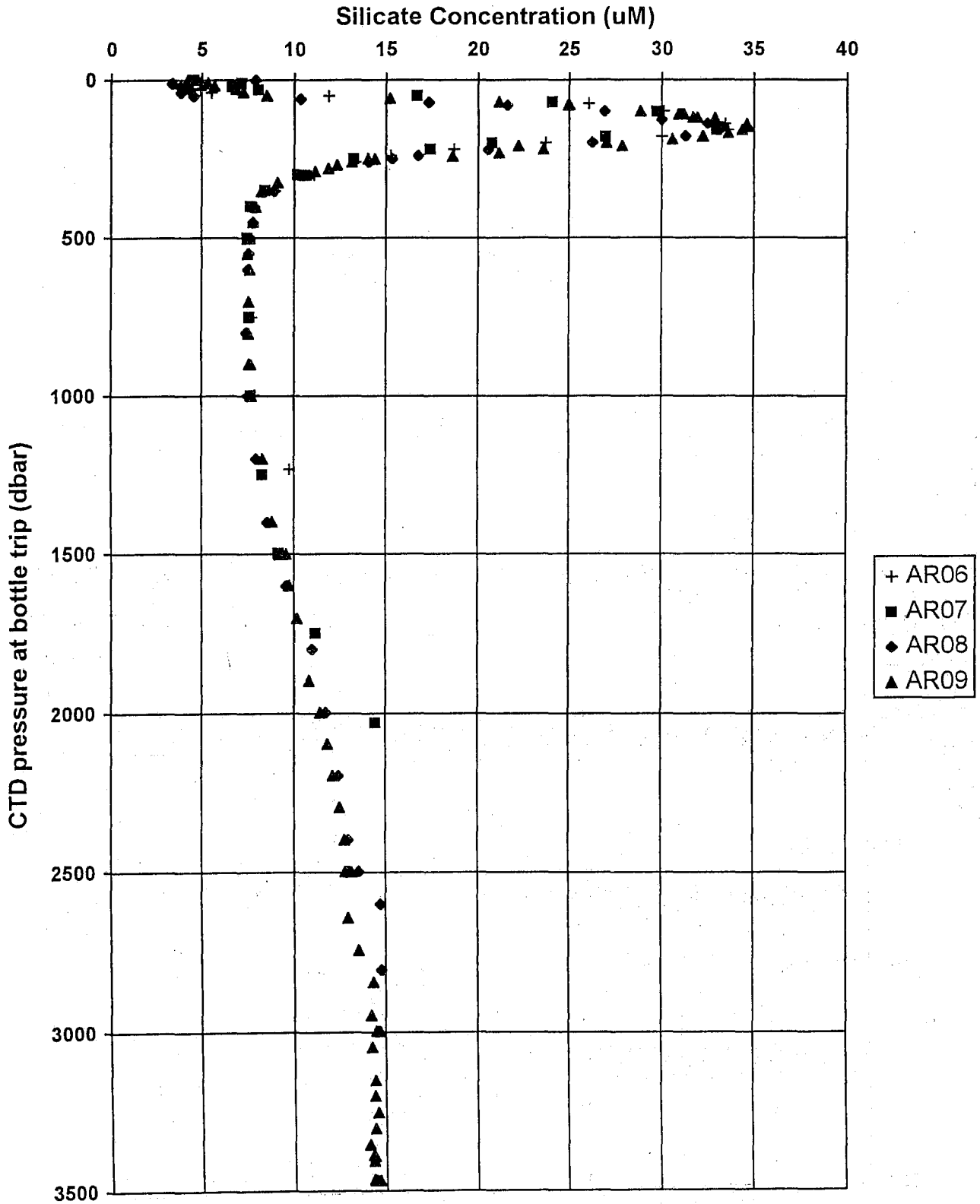




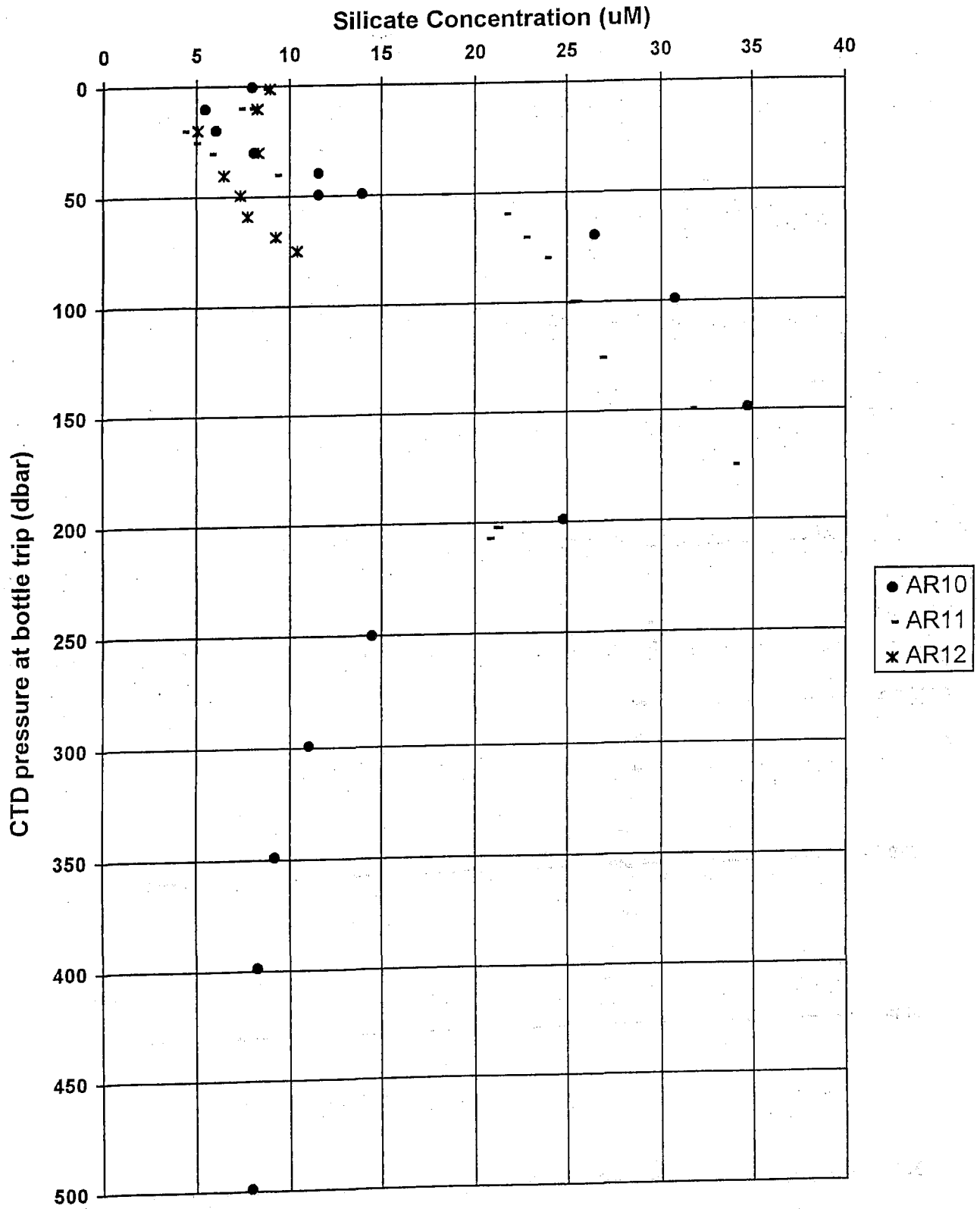
# Cruise 9526 - Silicate Profiles



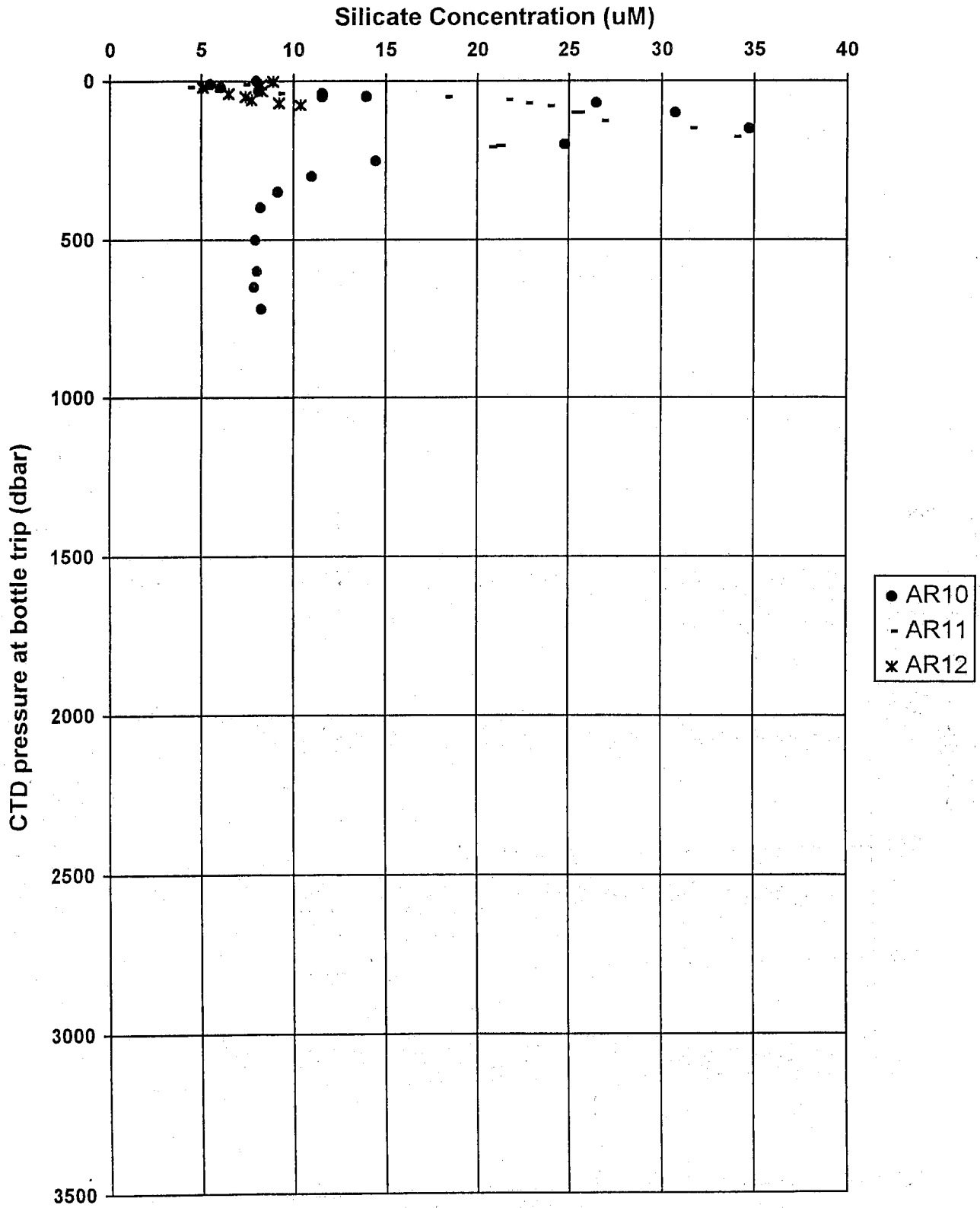
# Cruise 9526 - Silicate Profiles



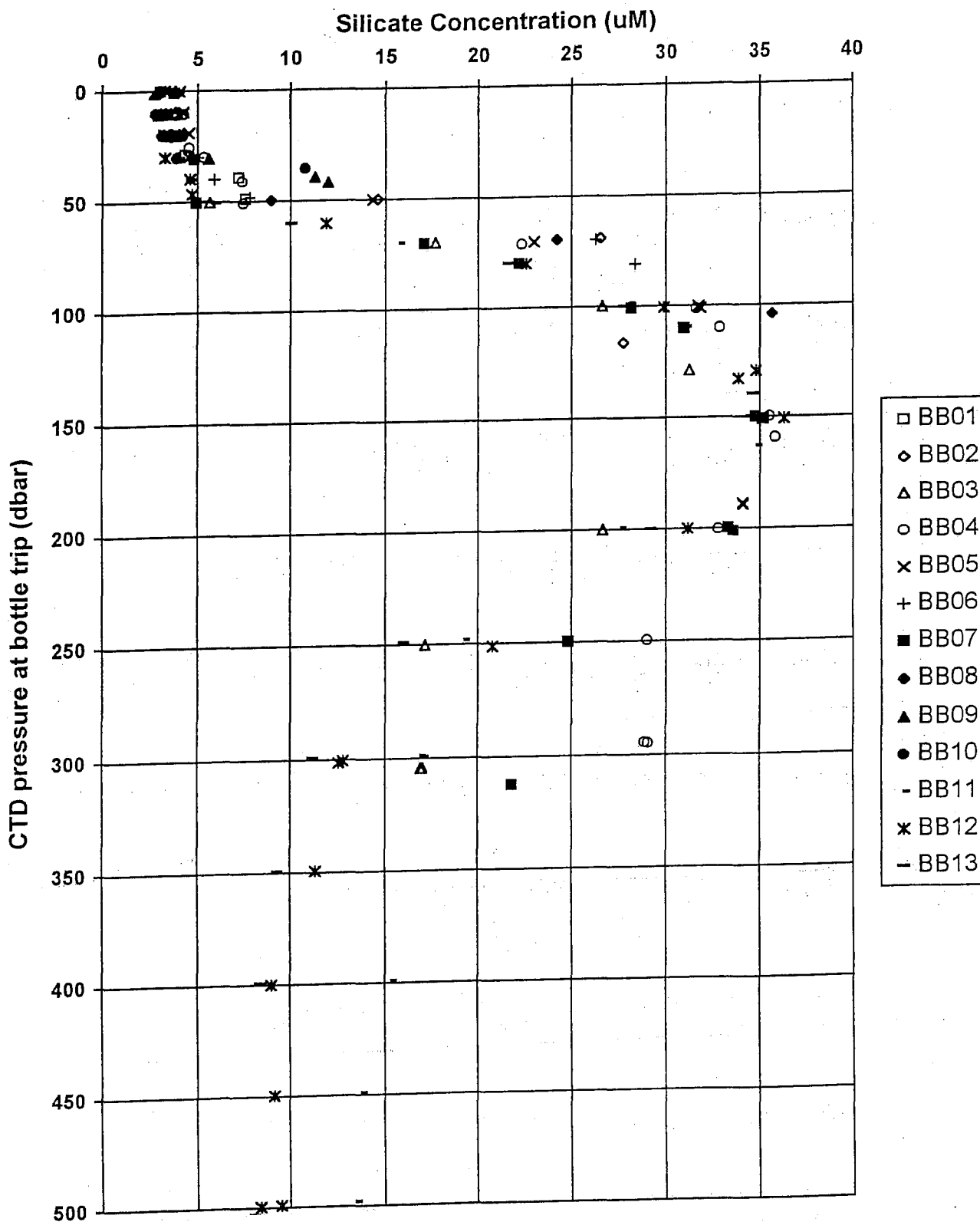
# Cruise 9526 - Silicate Profiles



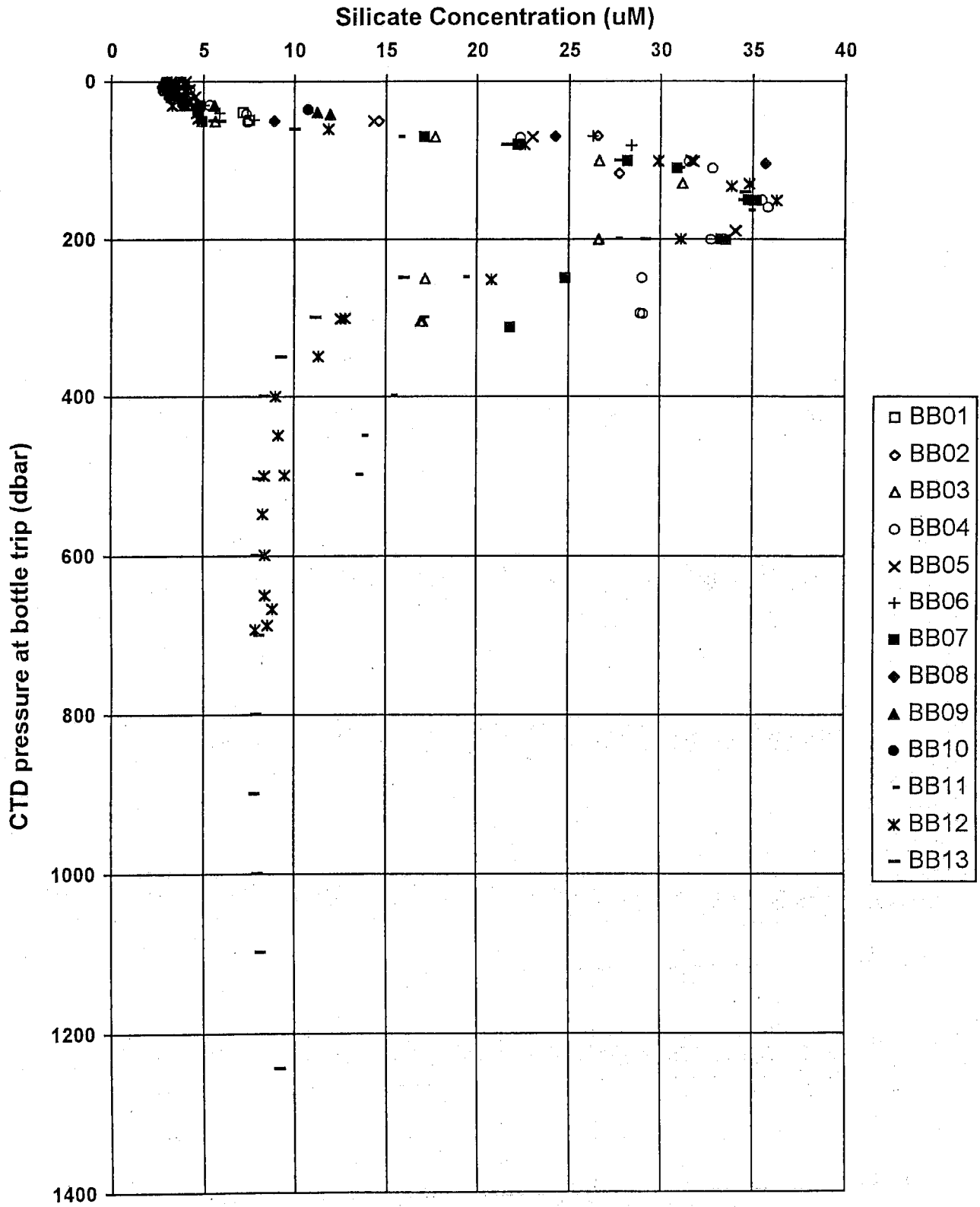
# Cruise 9526 - Silicate Profiles



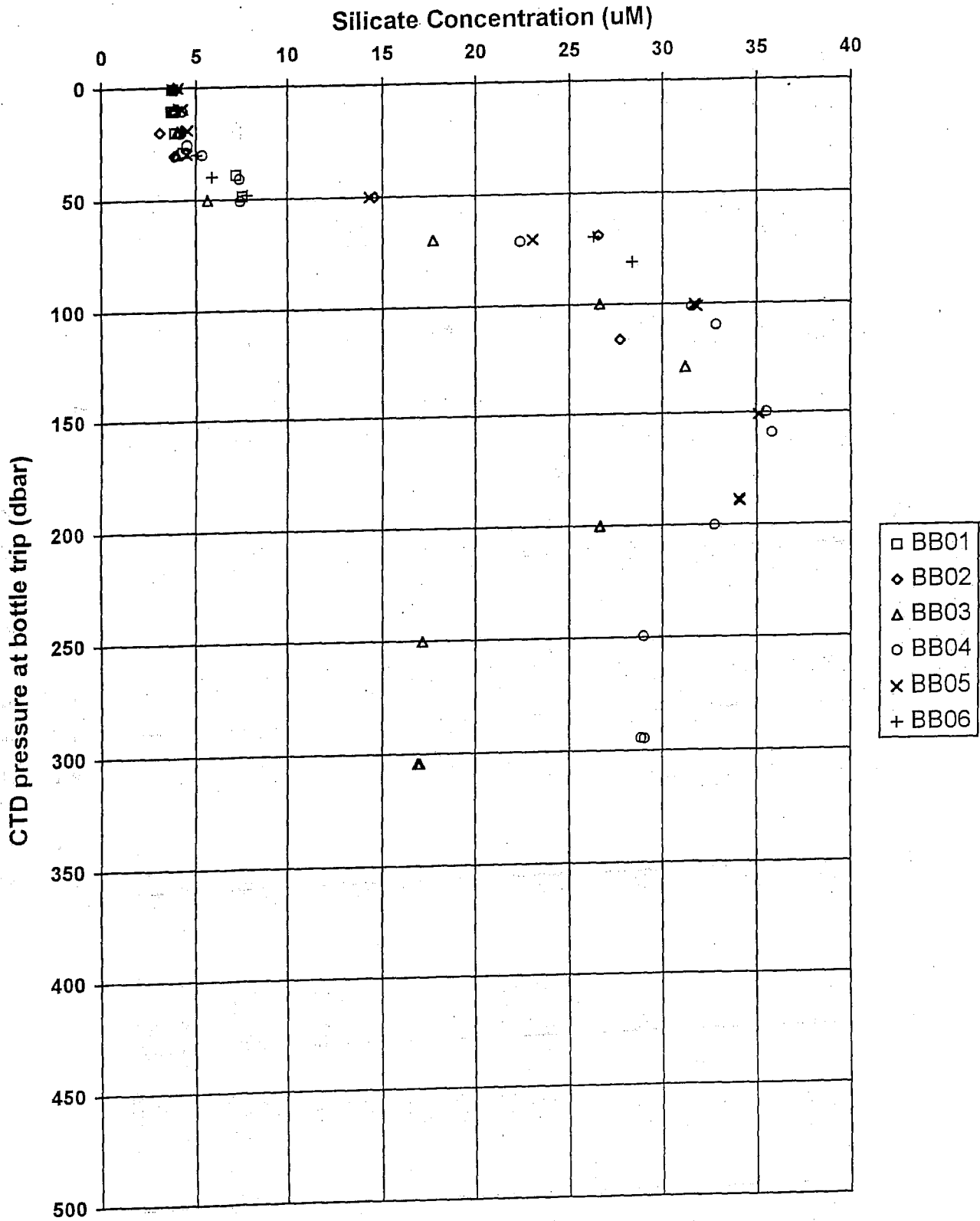
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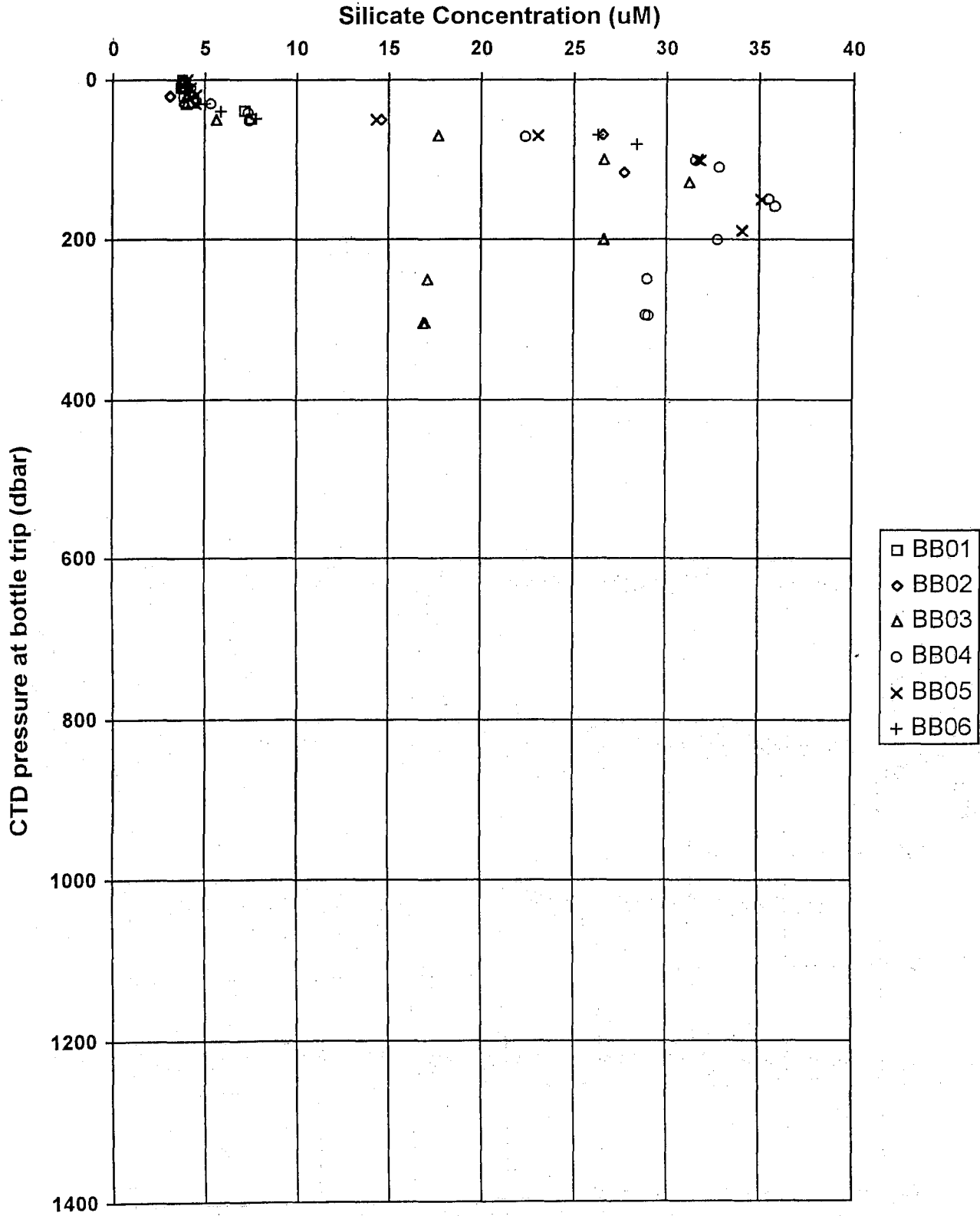
# Cruise 9526 - Silicate Profiles



# Cruise 9526 - Silicate Profiles

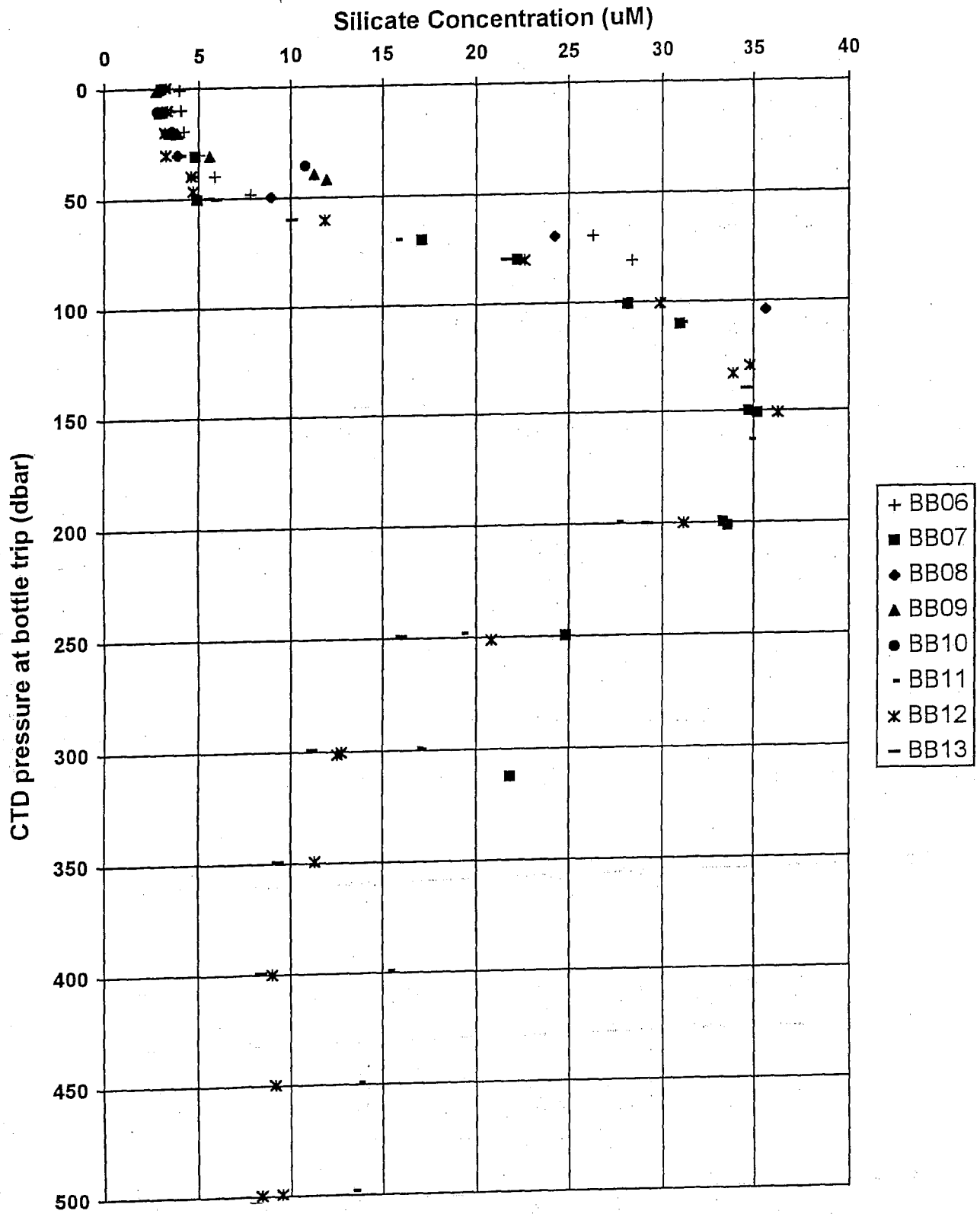


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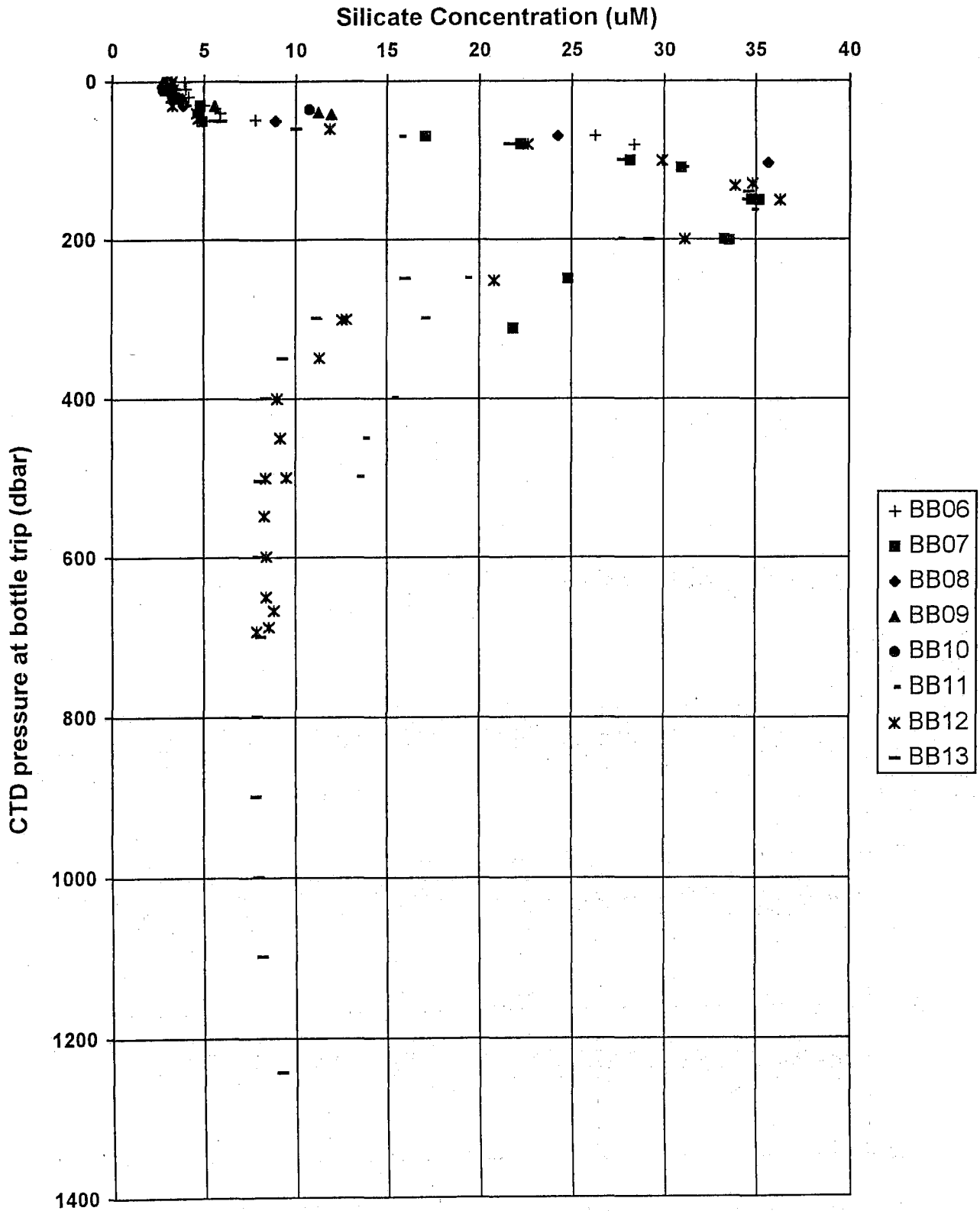




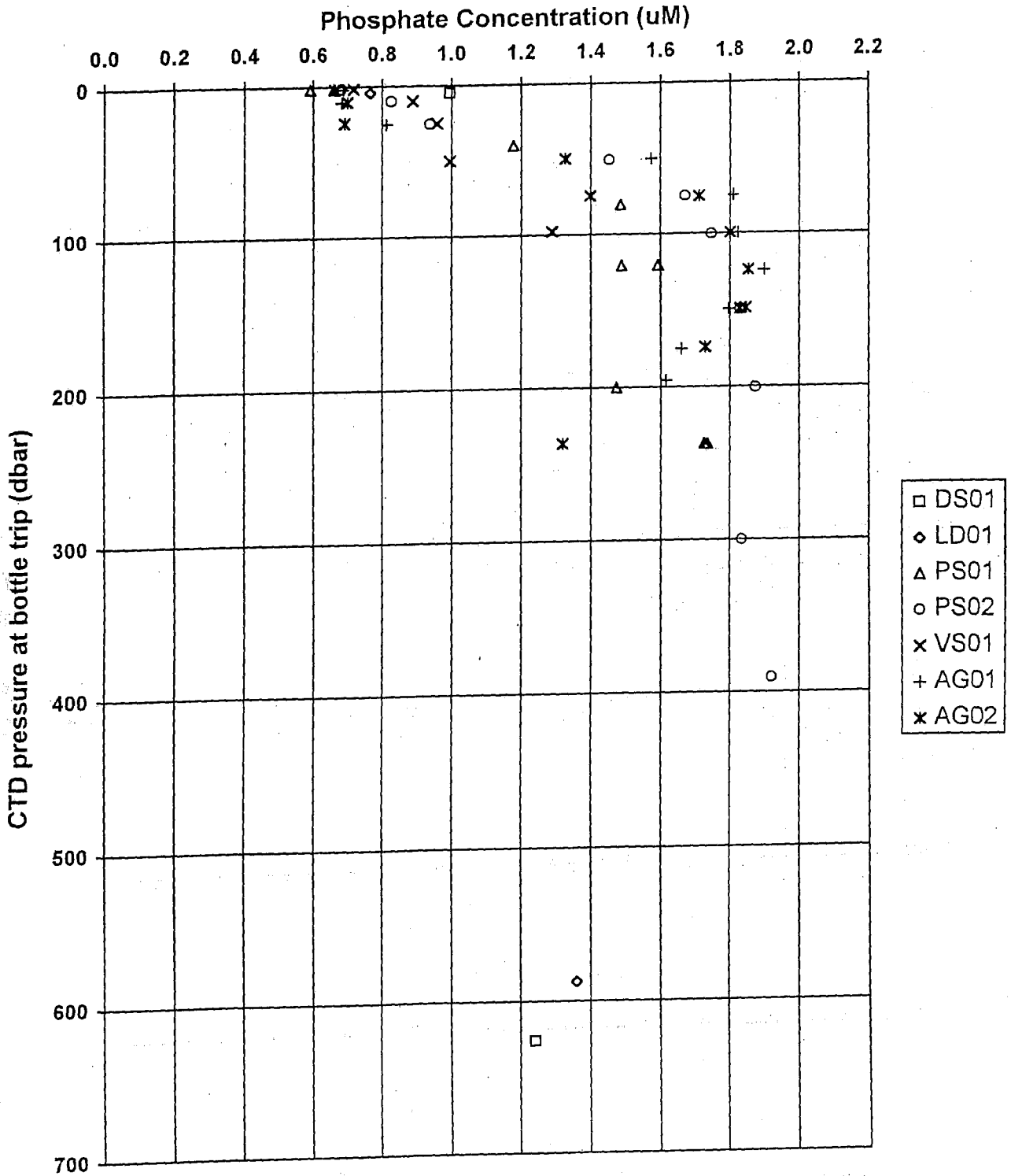
# Cruise 9526 - Silicate Profiles



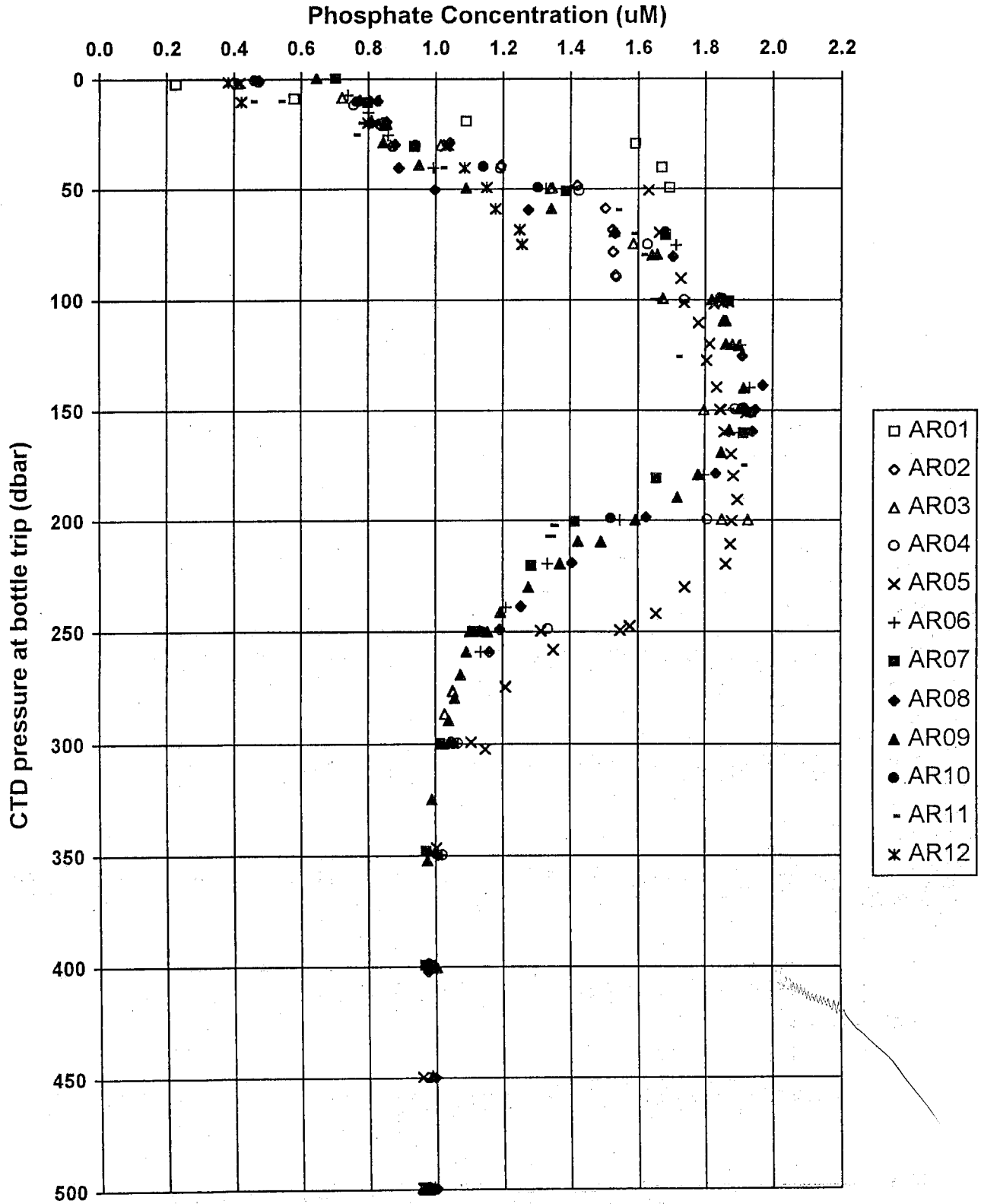
# Cruise 9526 - Silicate Profiles



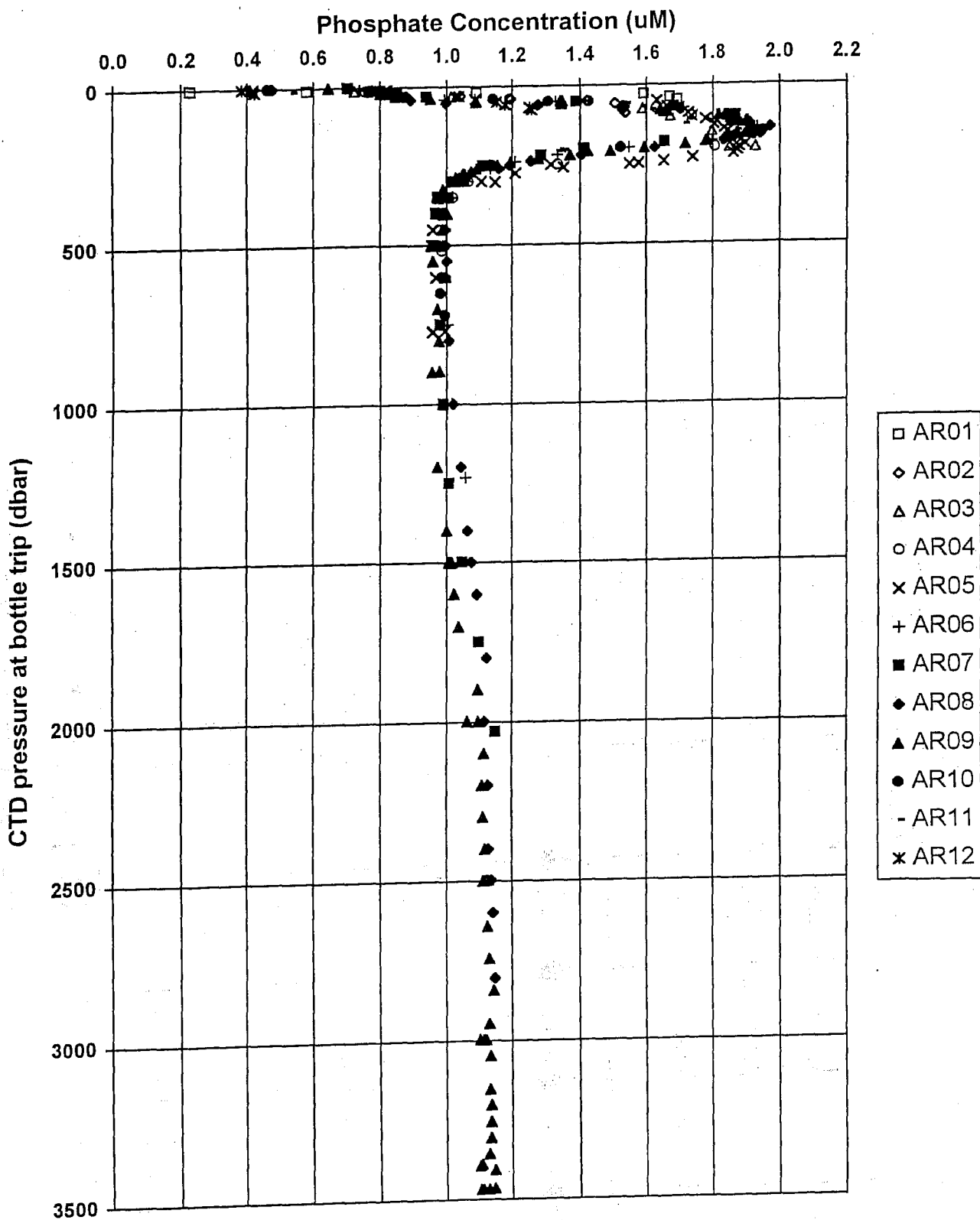
# Cruise 9526 - Phosphate Profiles



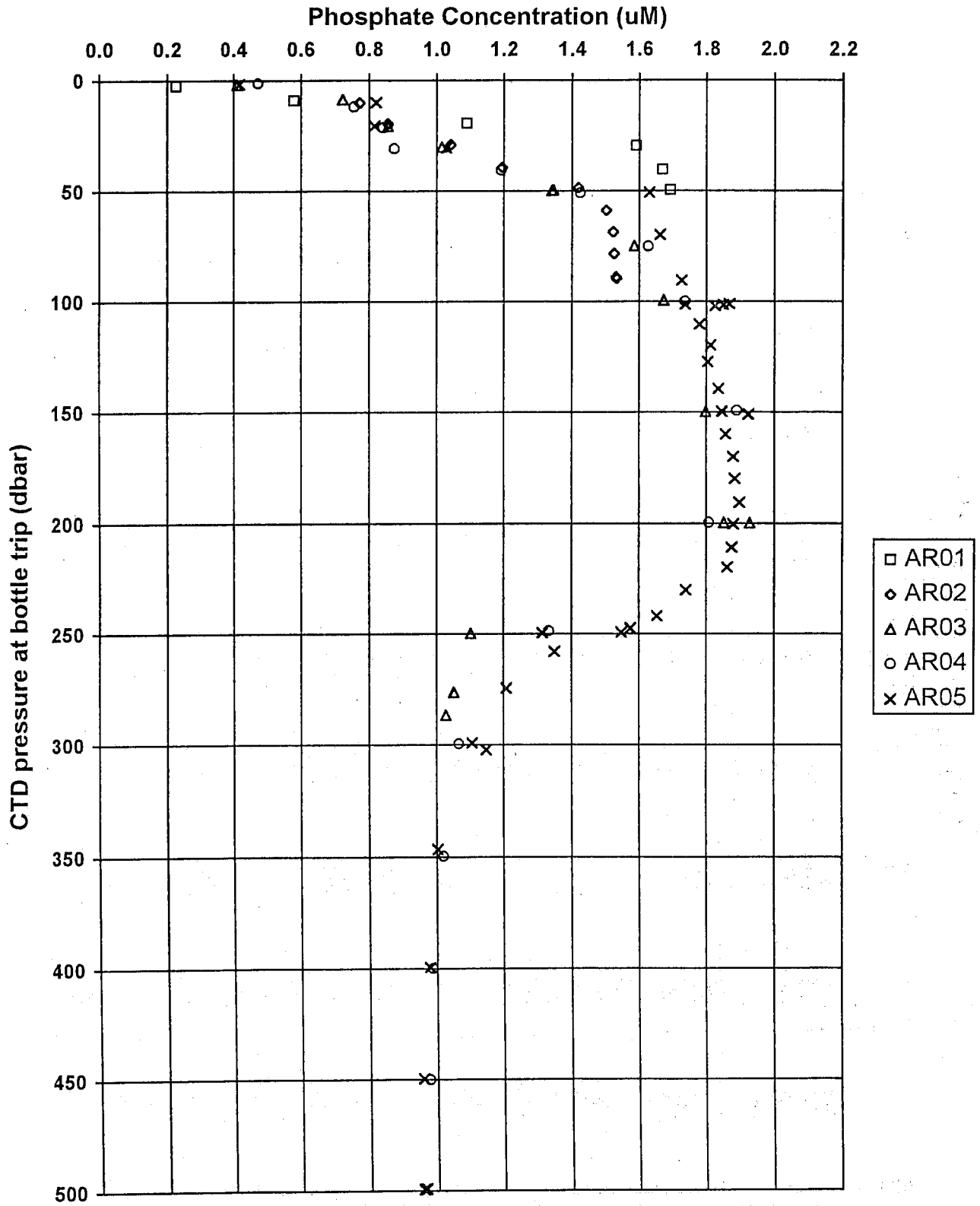
# Cruise 9526 - Phosphate Profiles



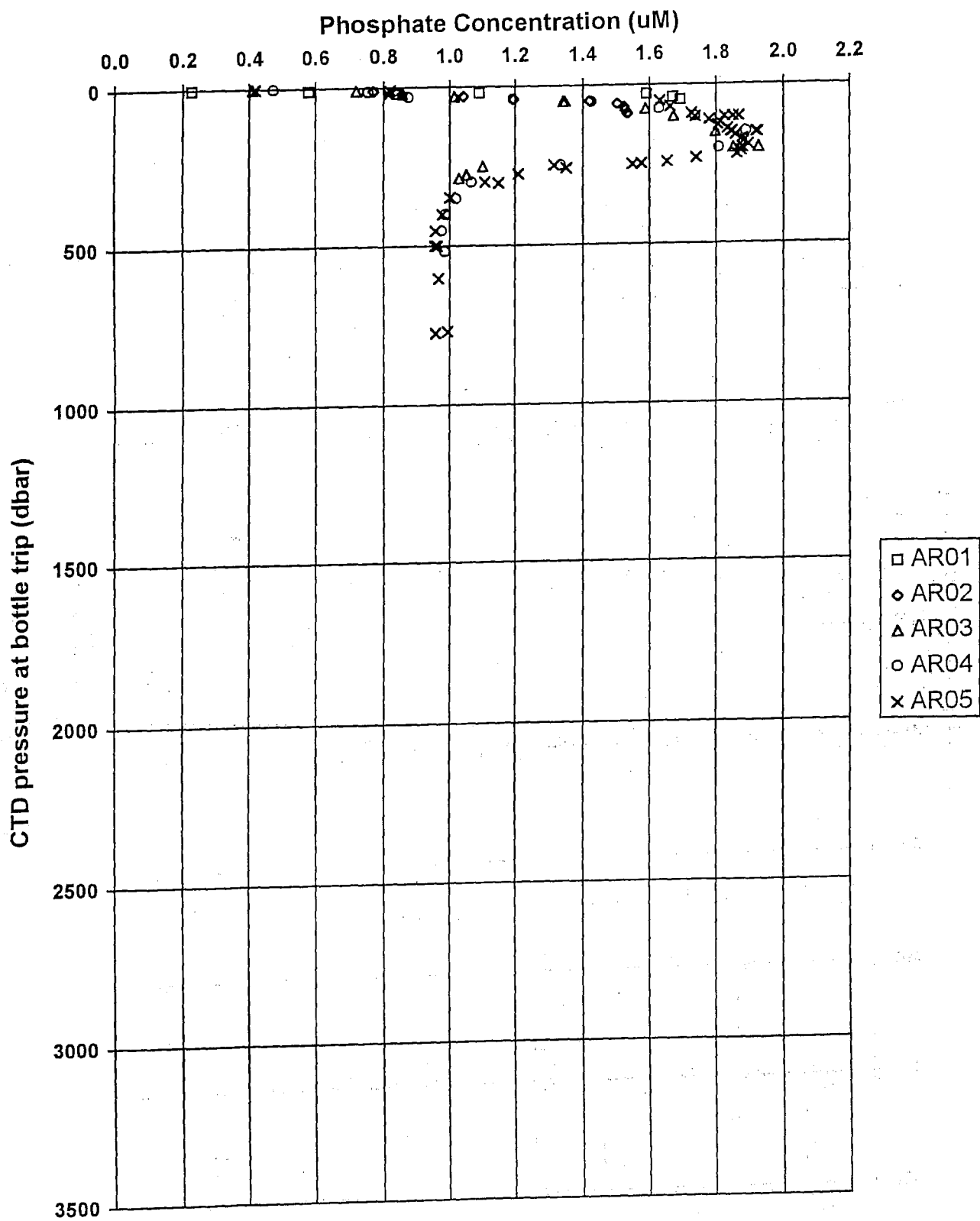
# Cruise 9526 - Phosphate Profiles



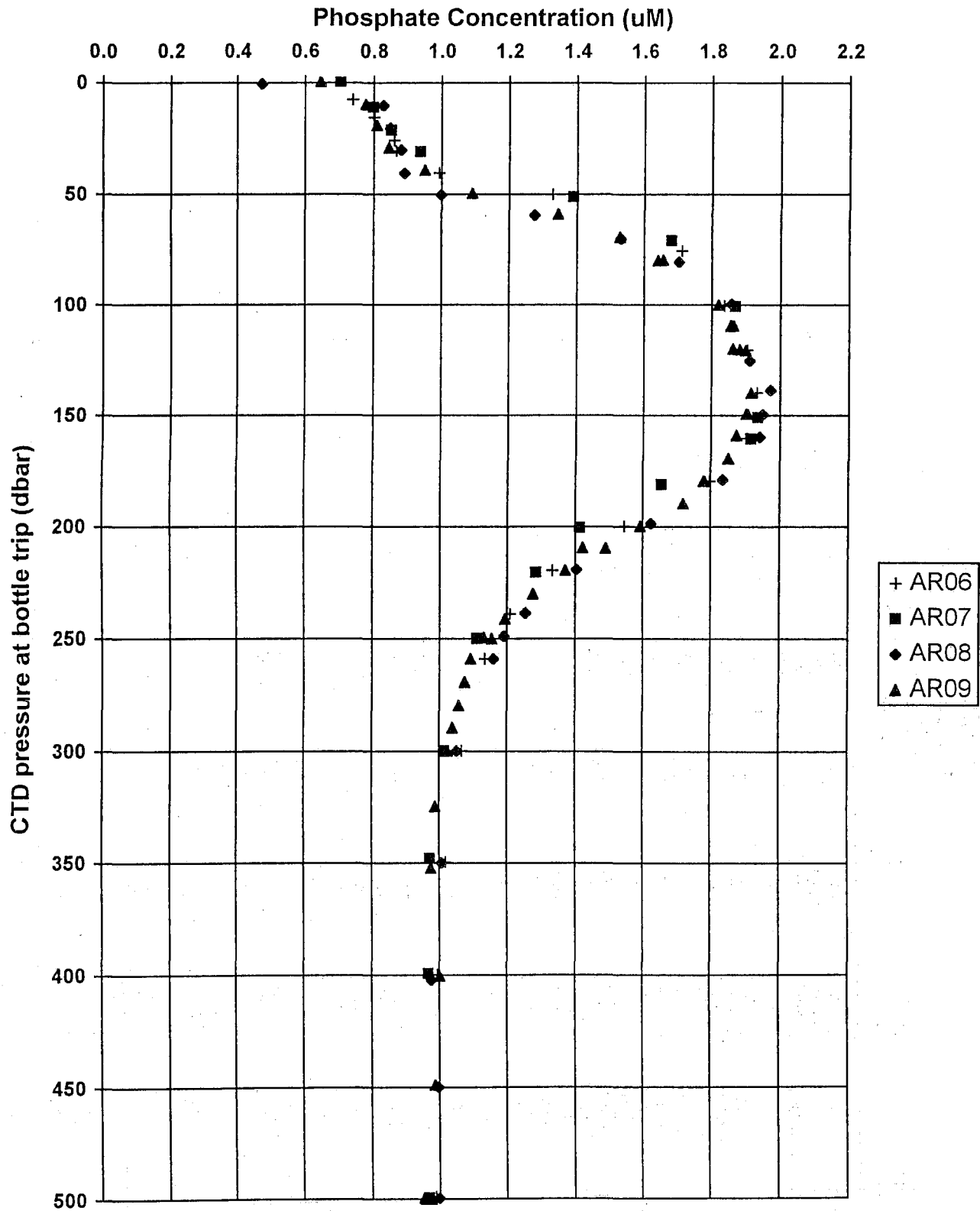
# Cruise 9526 - Phosphate Profiles



# Cruise 9526 - Phosphate Profiles

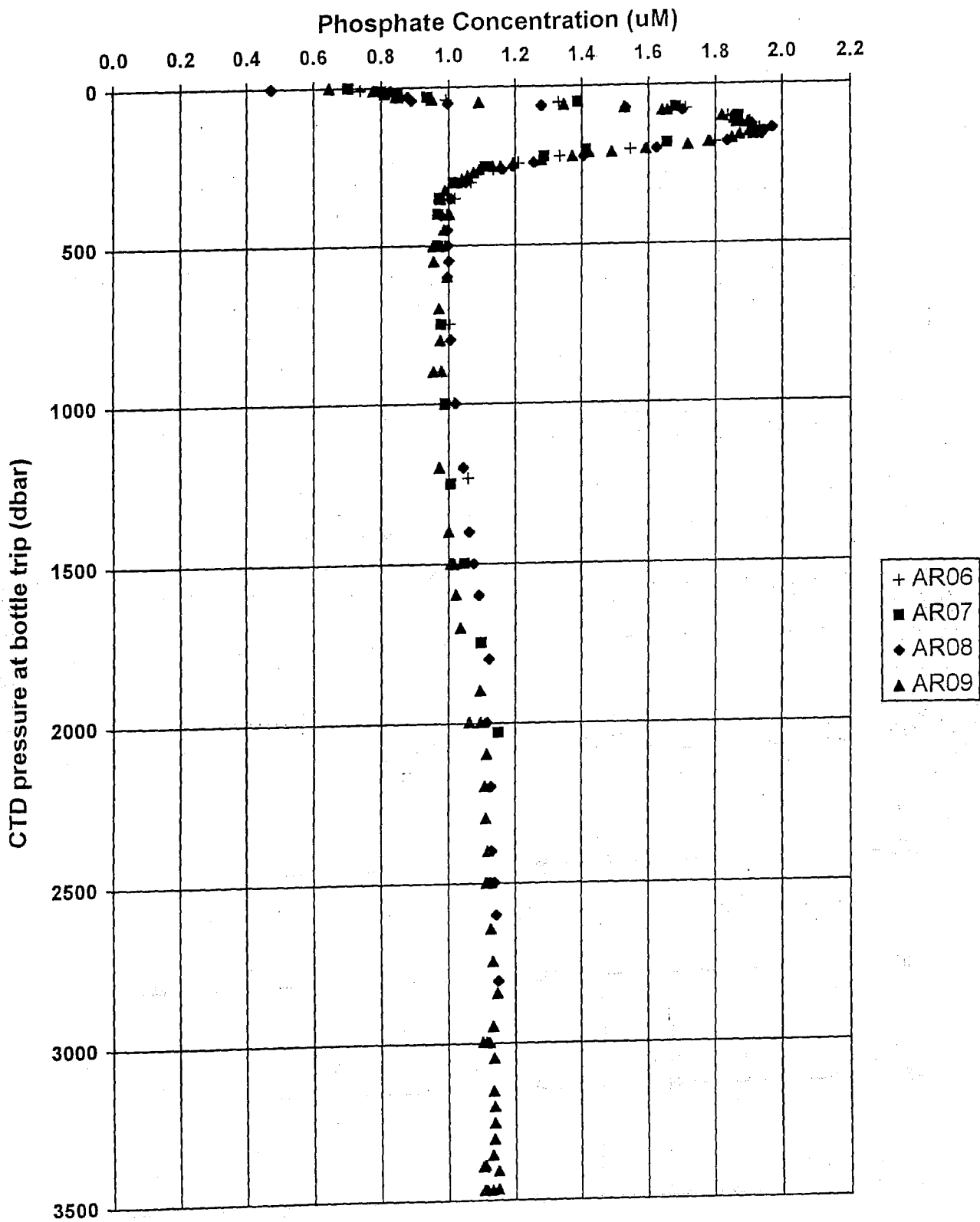


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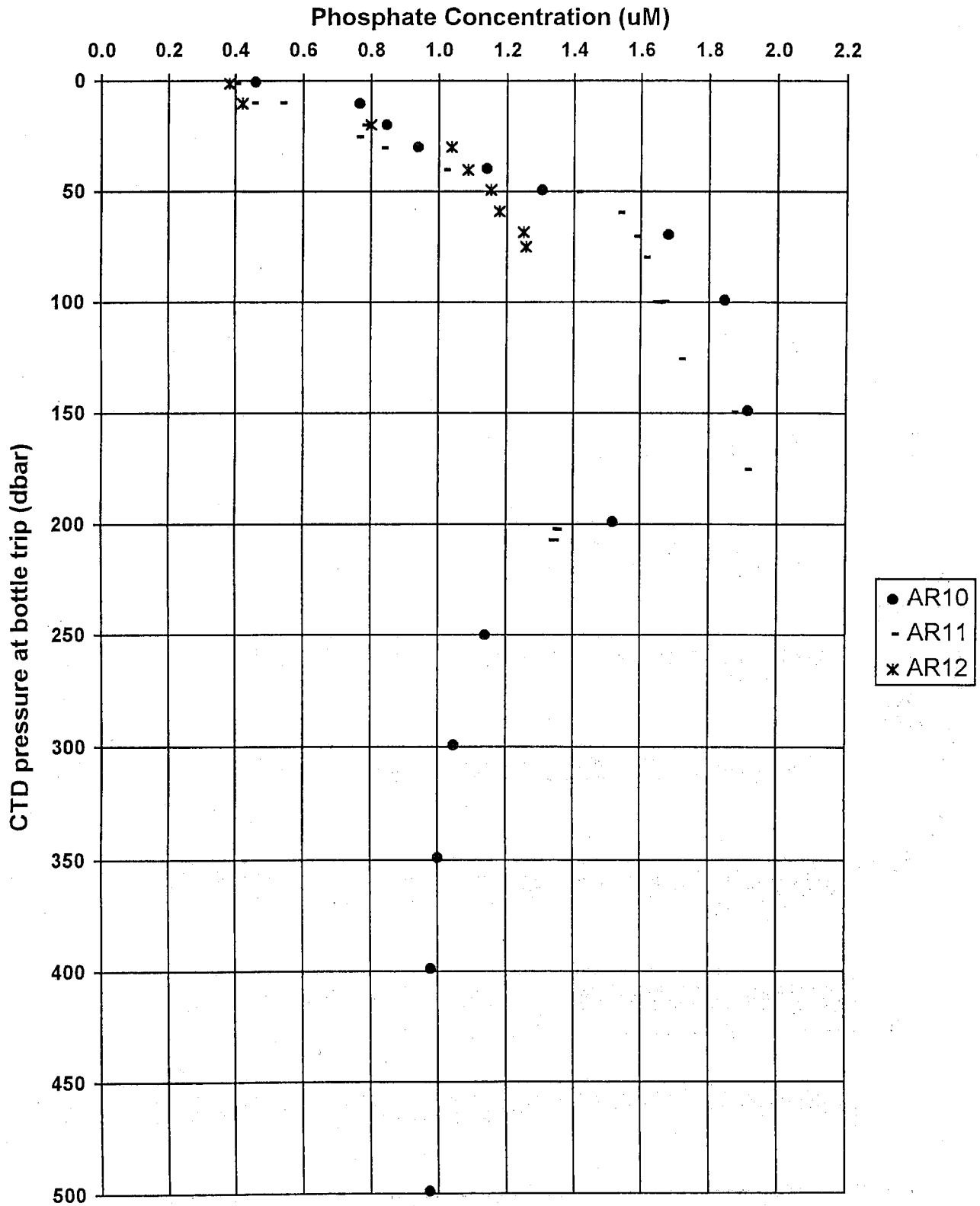




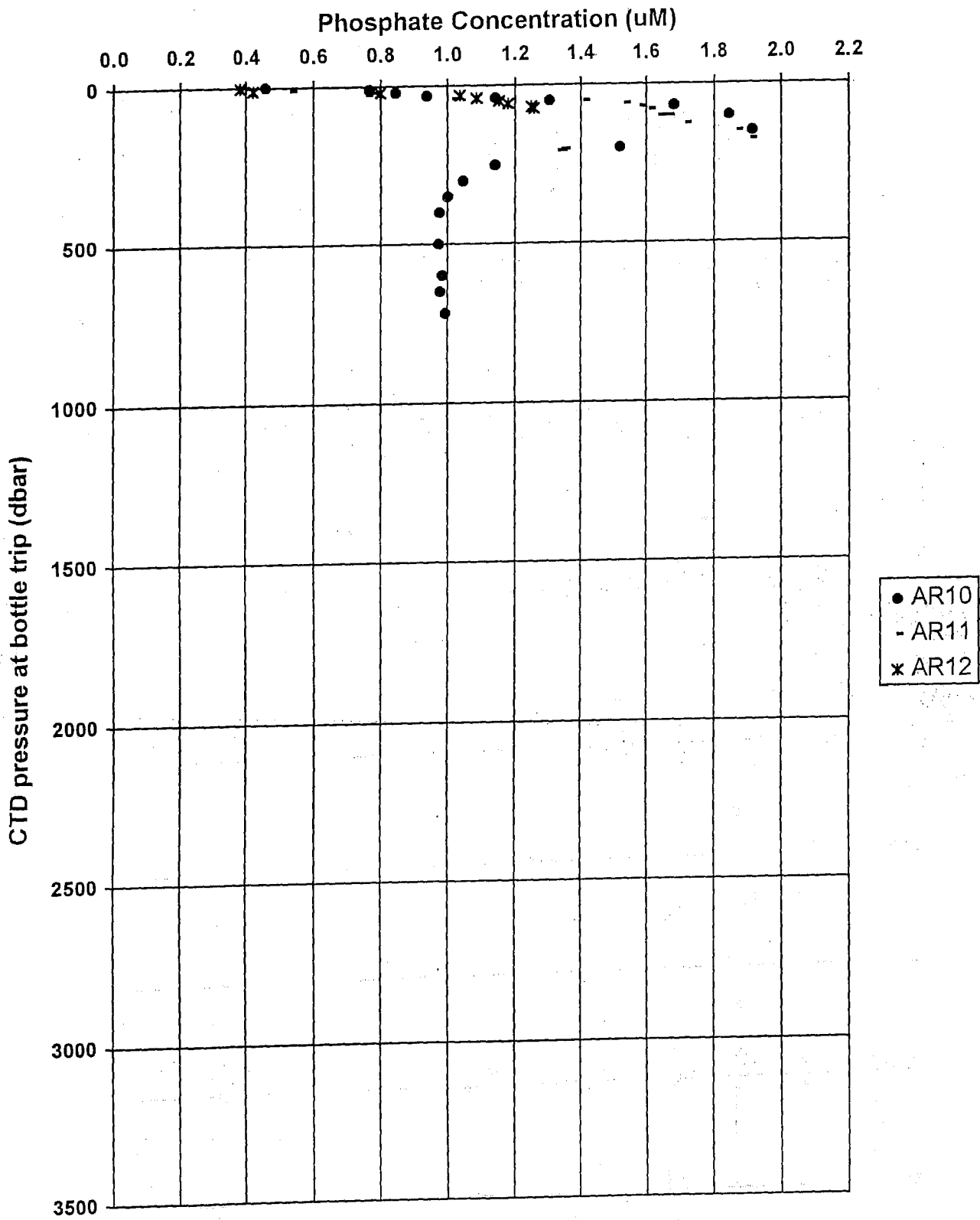
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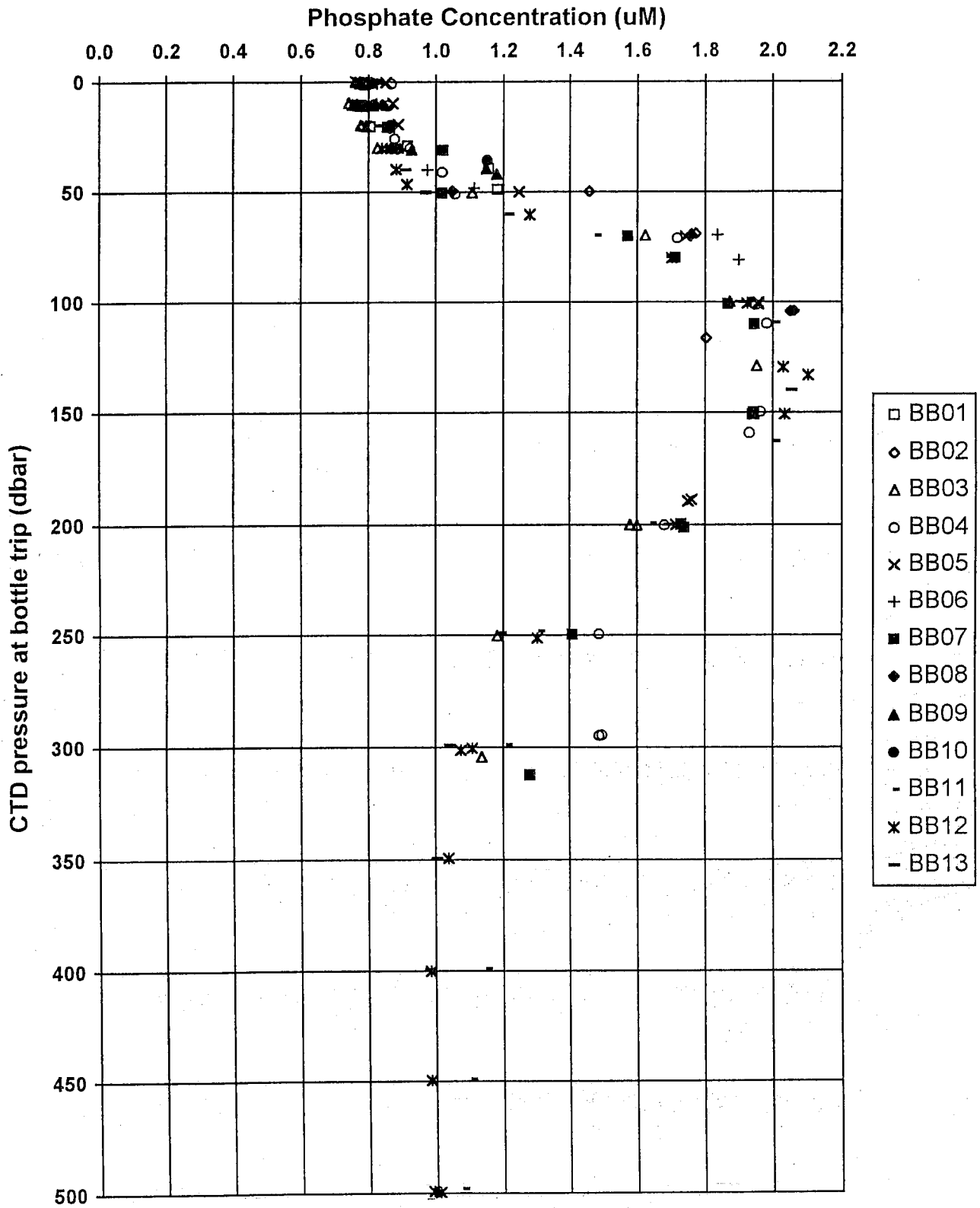
# Cruise 9526 - Phosphate Profiles



# Cruise 9526 - Phosphate Profiles

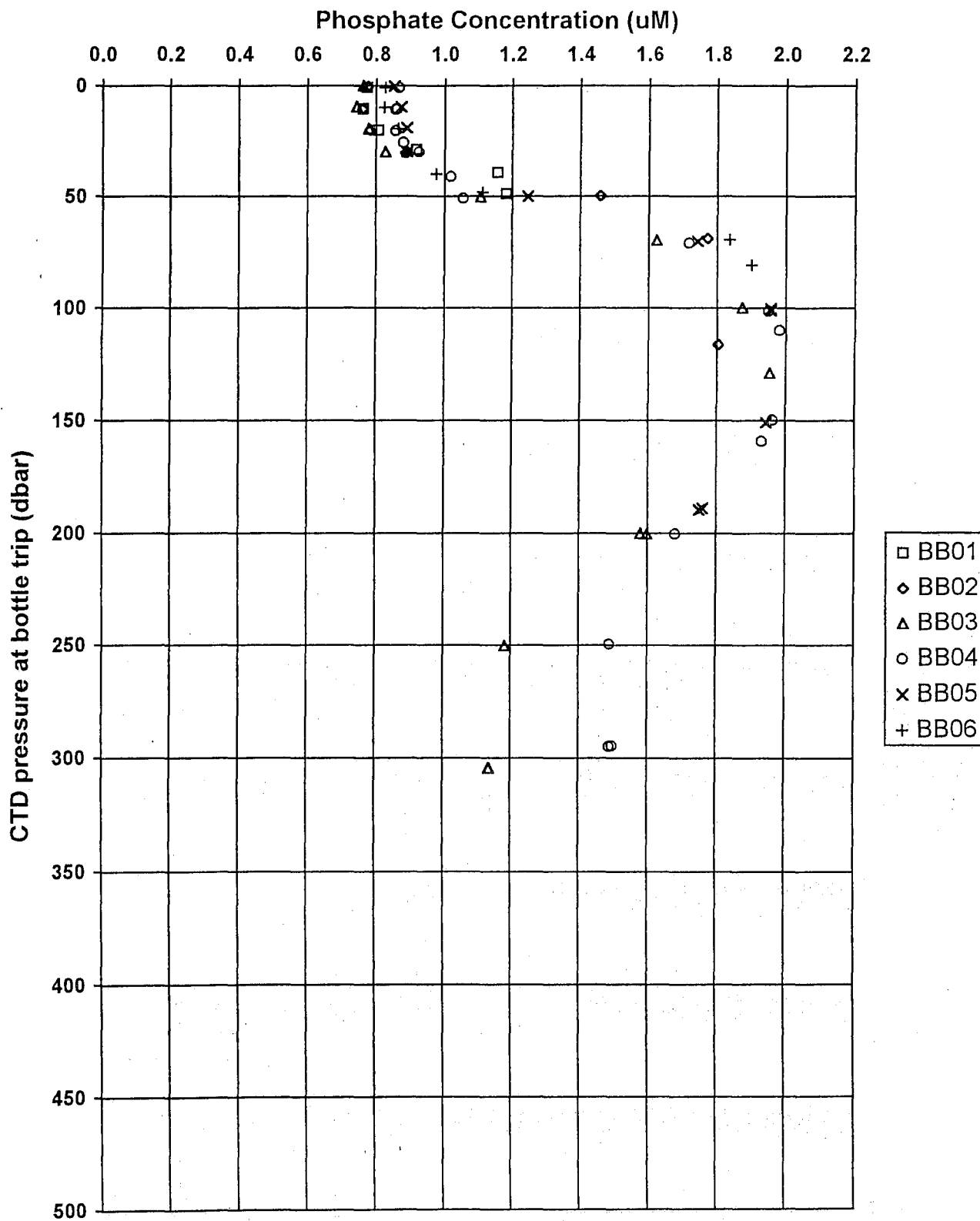


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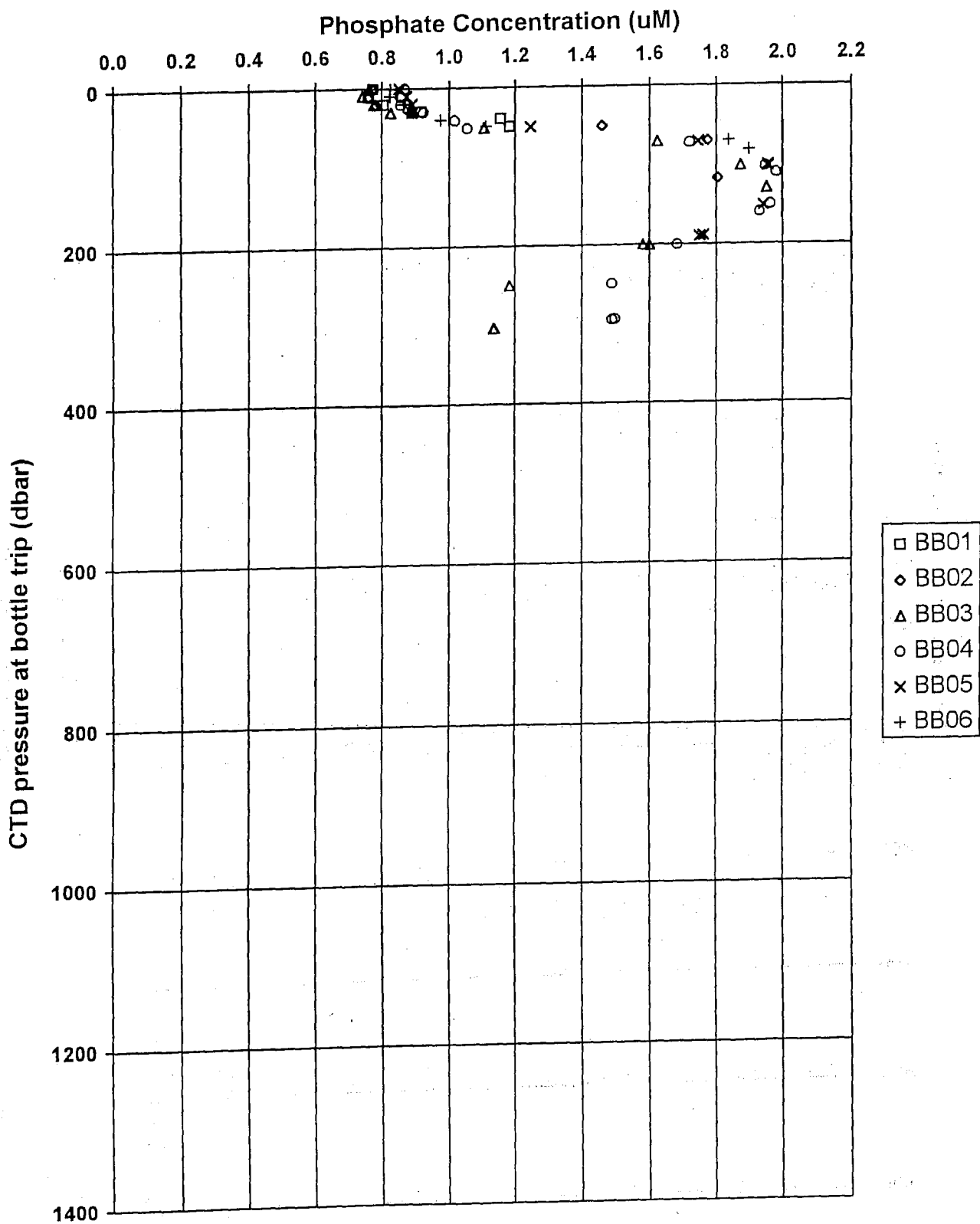




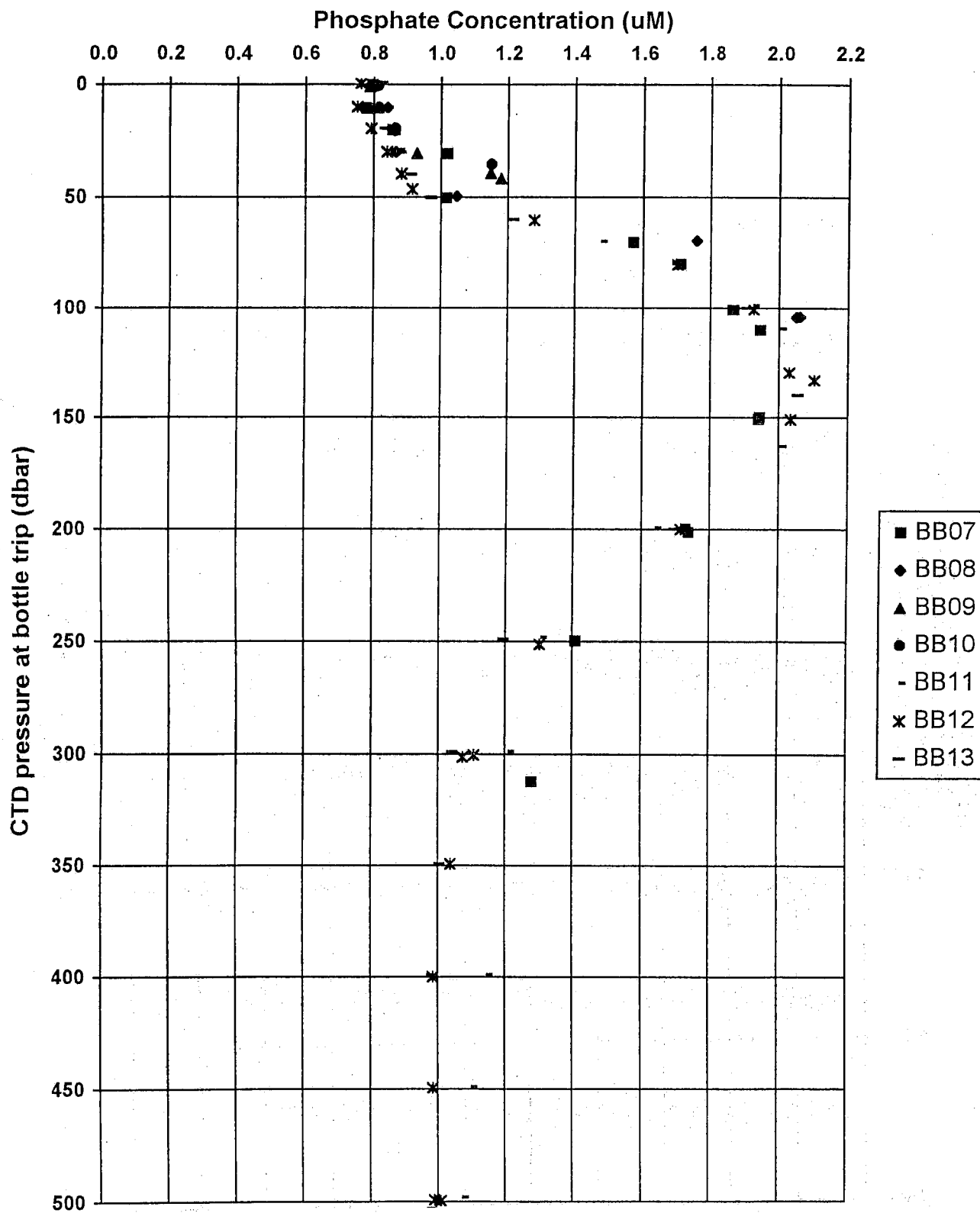
# Cruise 9526 - Phosphate Profiles



# Cruise 9526 - Phosphate Profiles

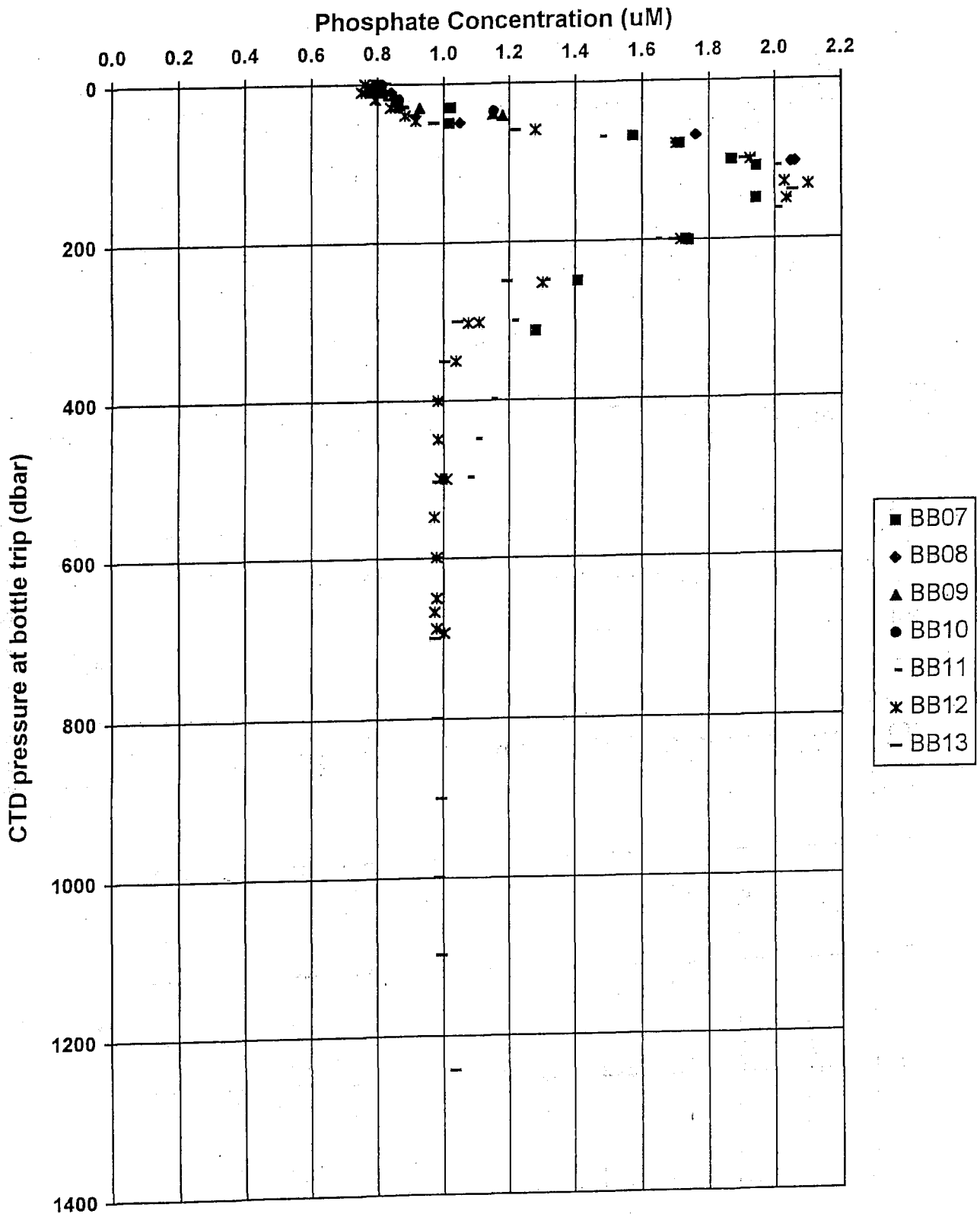


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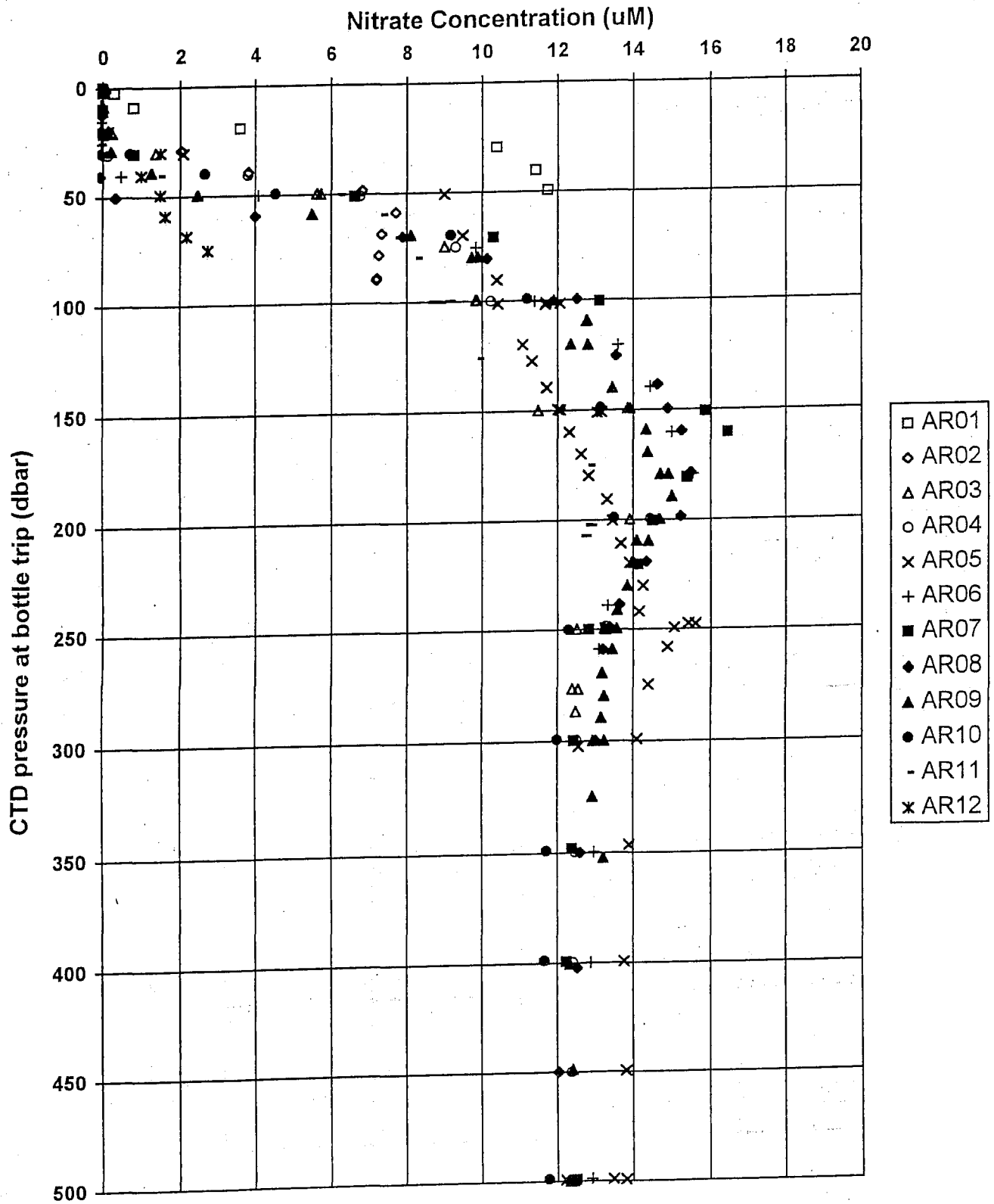


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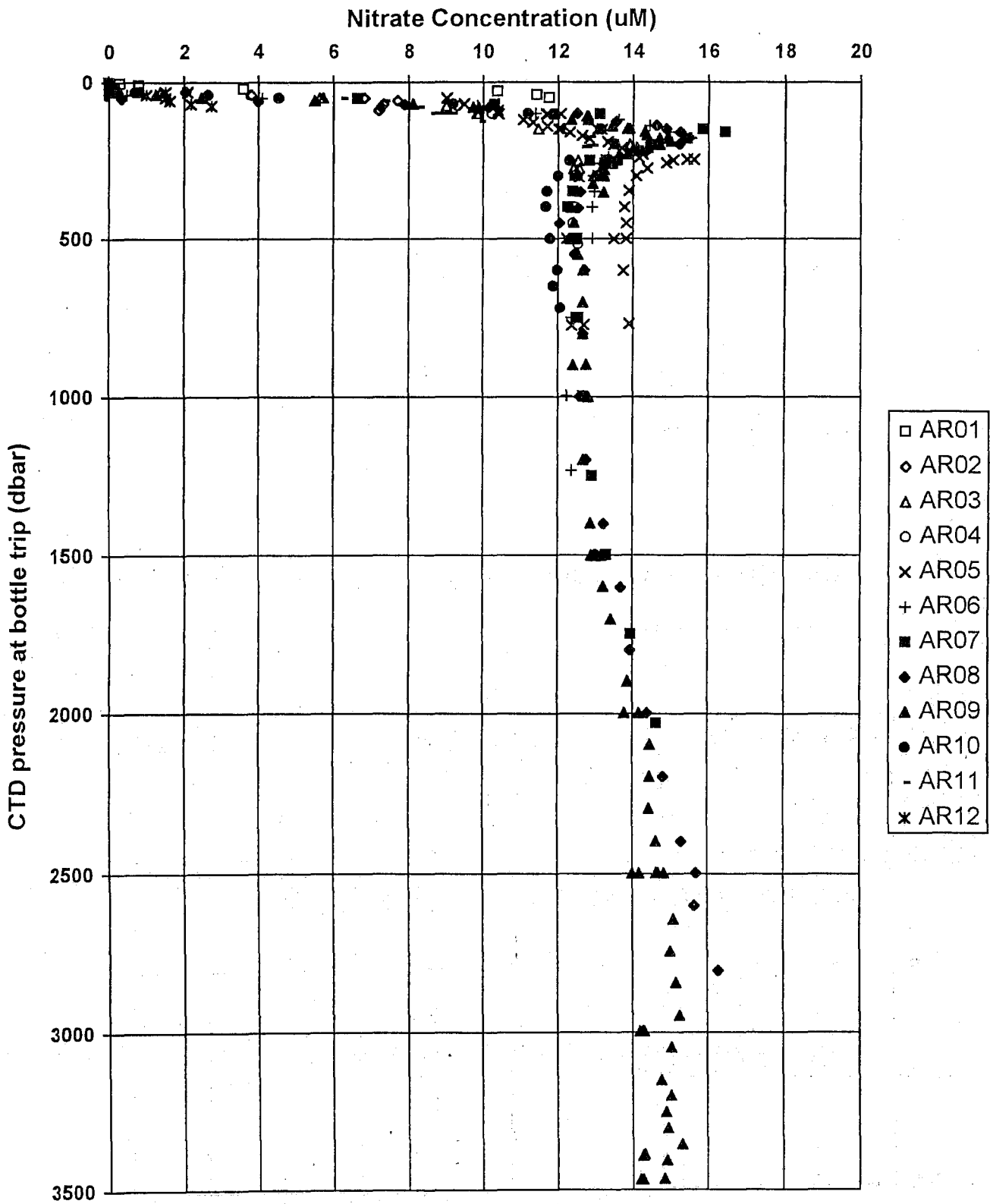




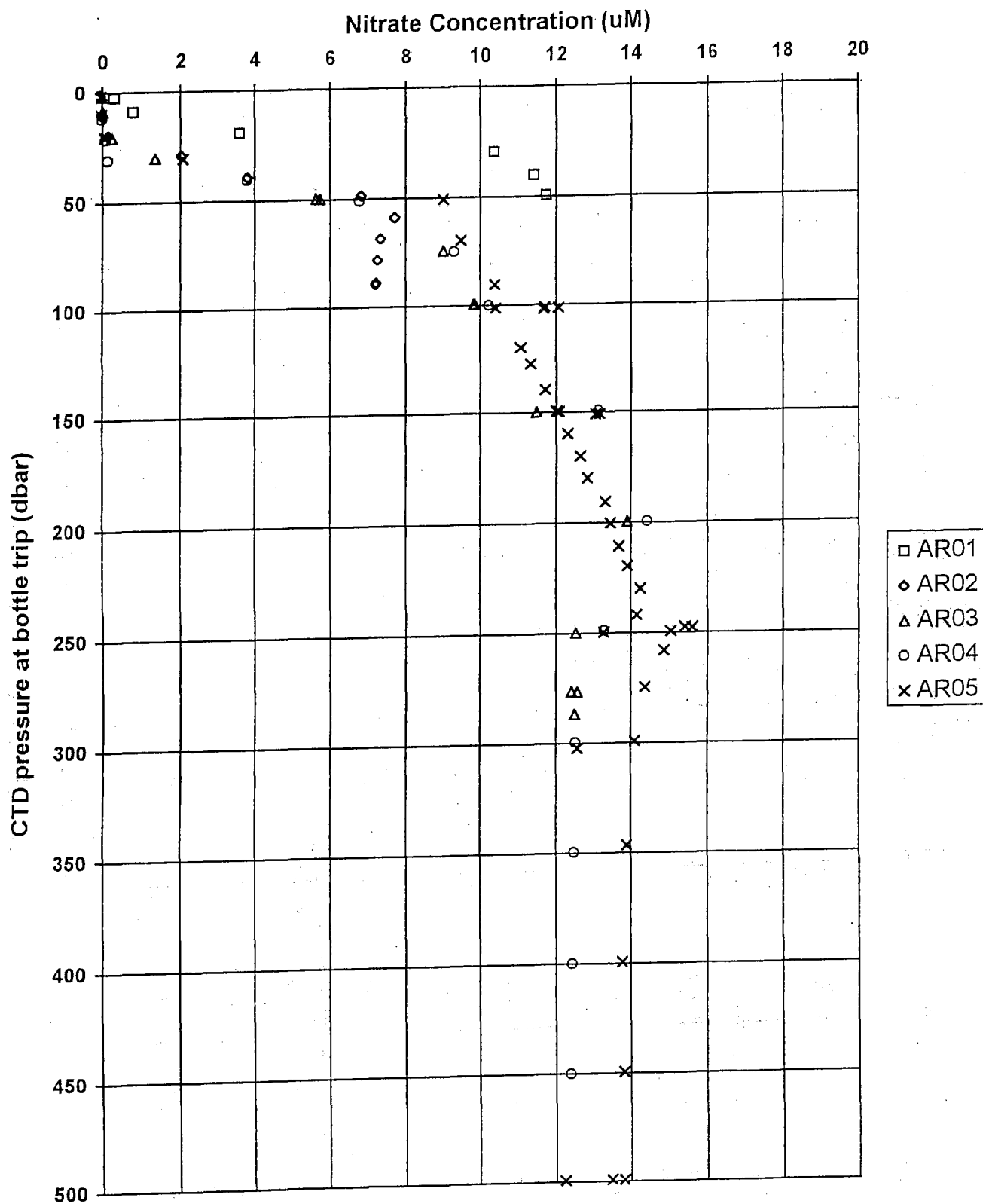
# Cruise 9526 - Nitrate Profiles



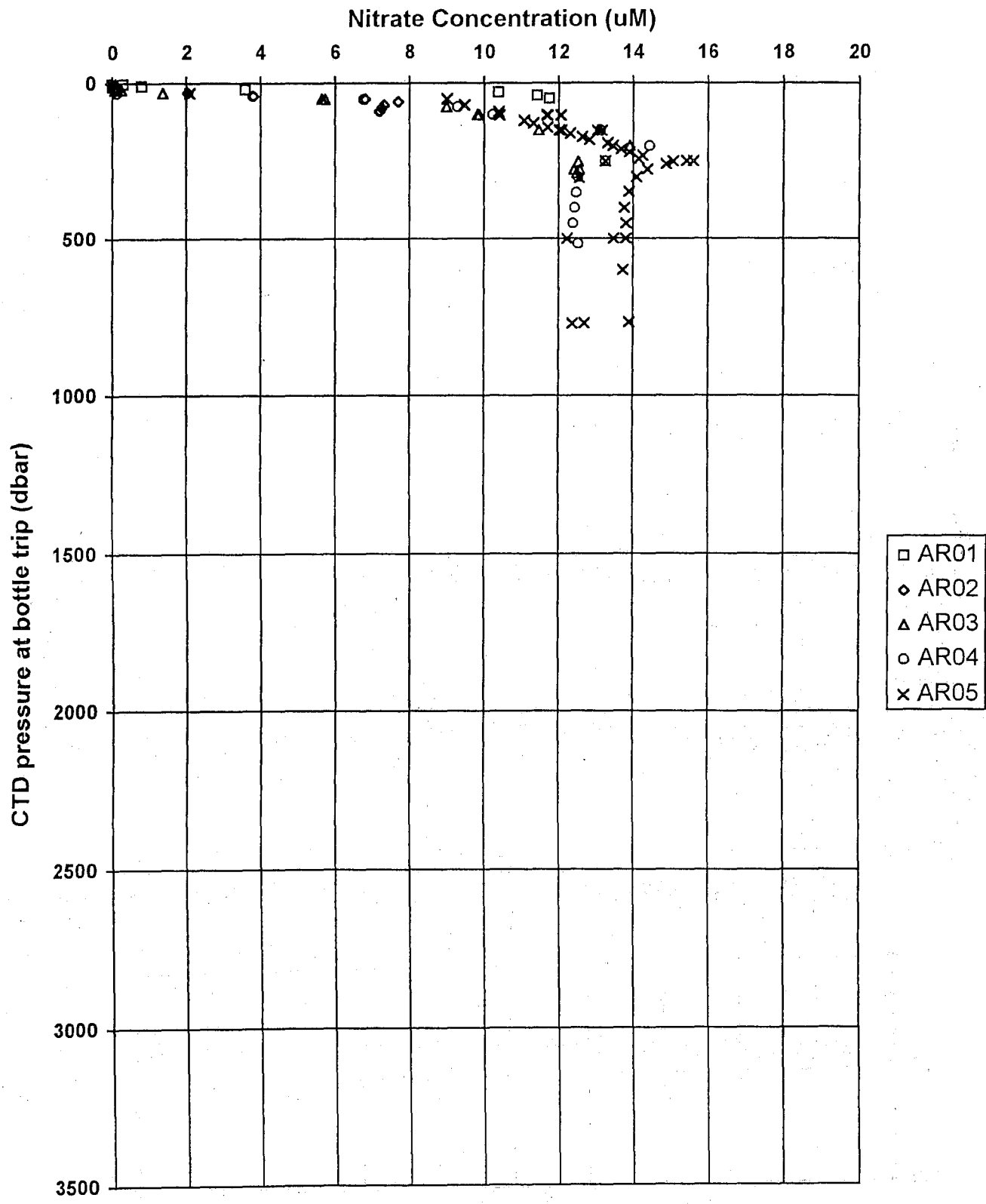
# Cruise 9526 - Nitrate Profiles



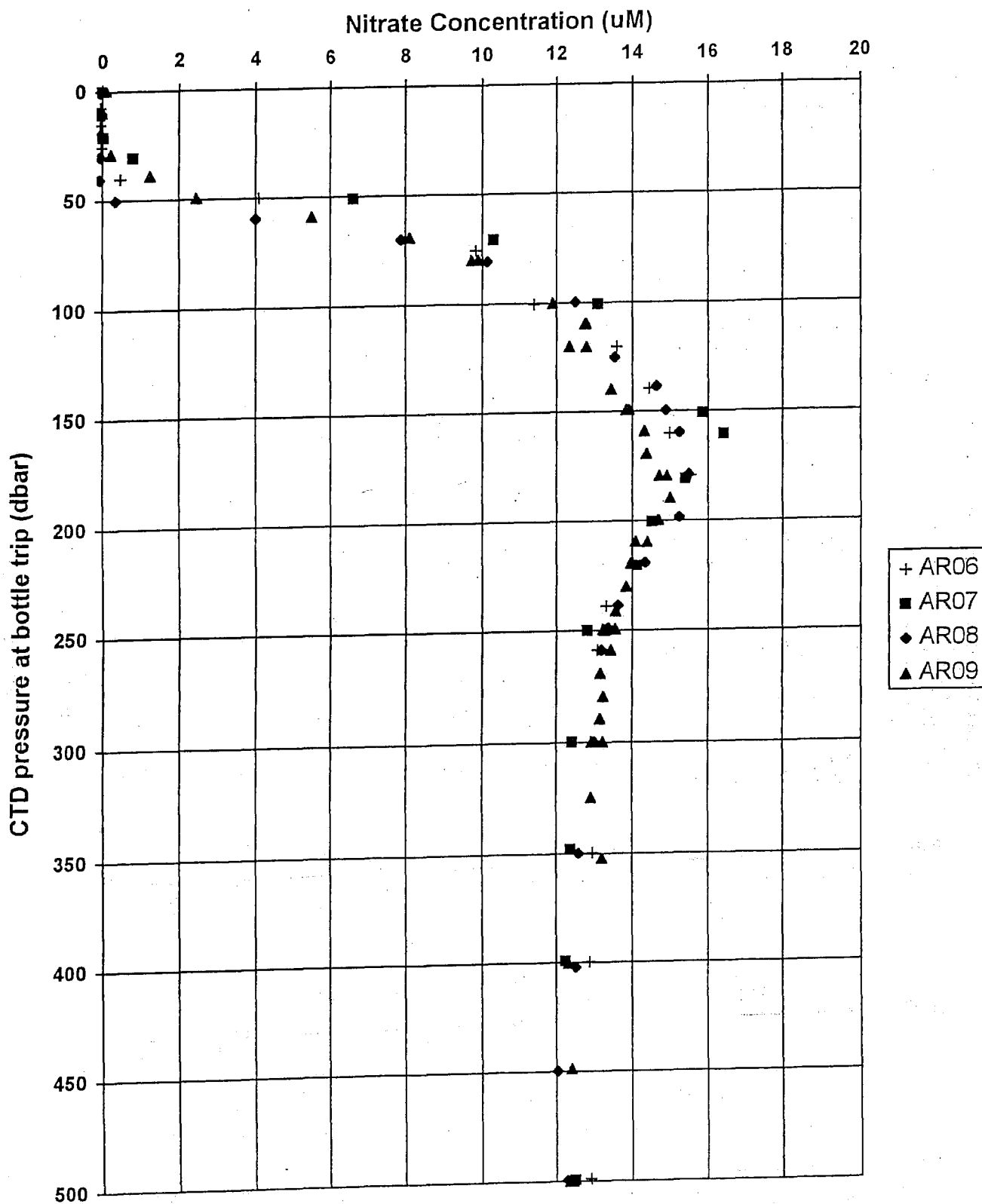
# Cruise 9526 - Nitrate Profiles



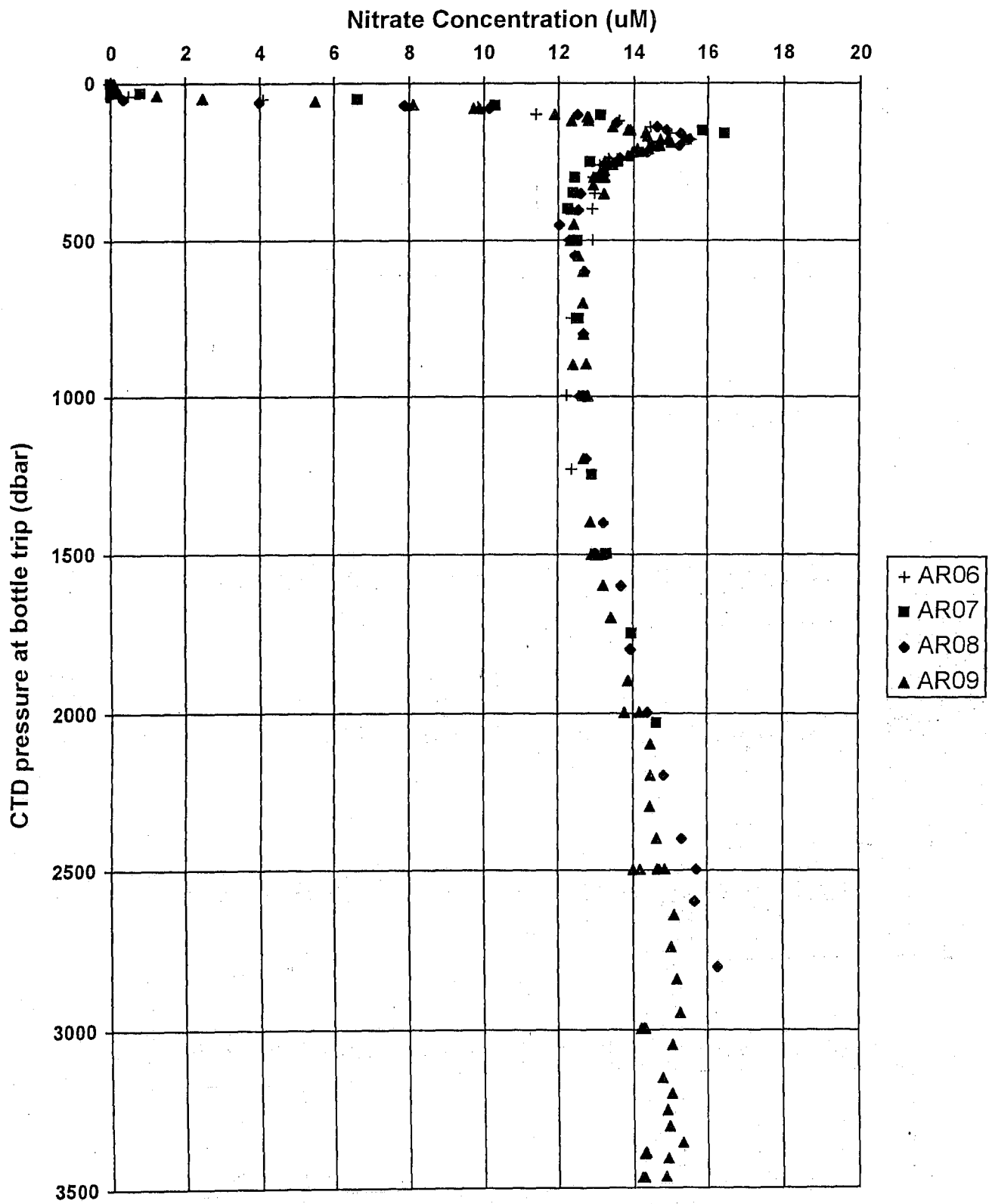
# Cruise 9526 - Nitrate Profiles



# Cruise 9526 - Nitrate Profiles

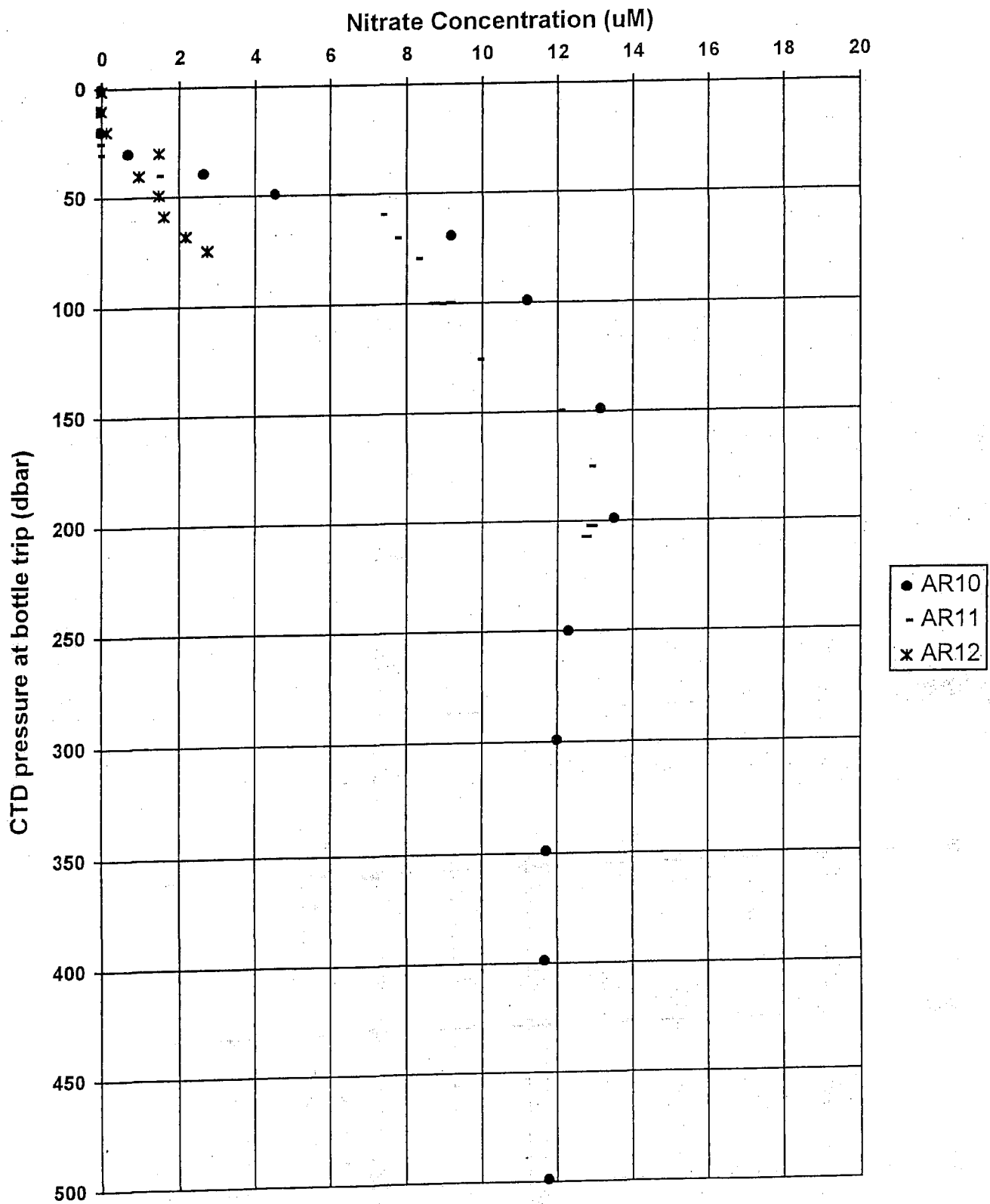


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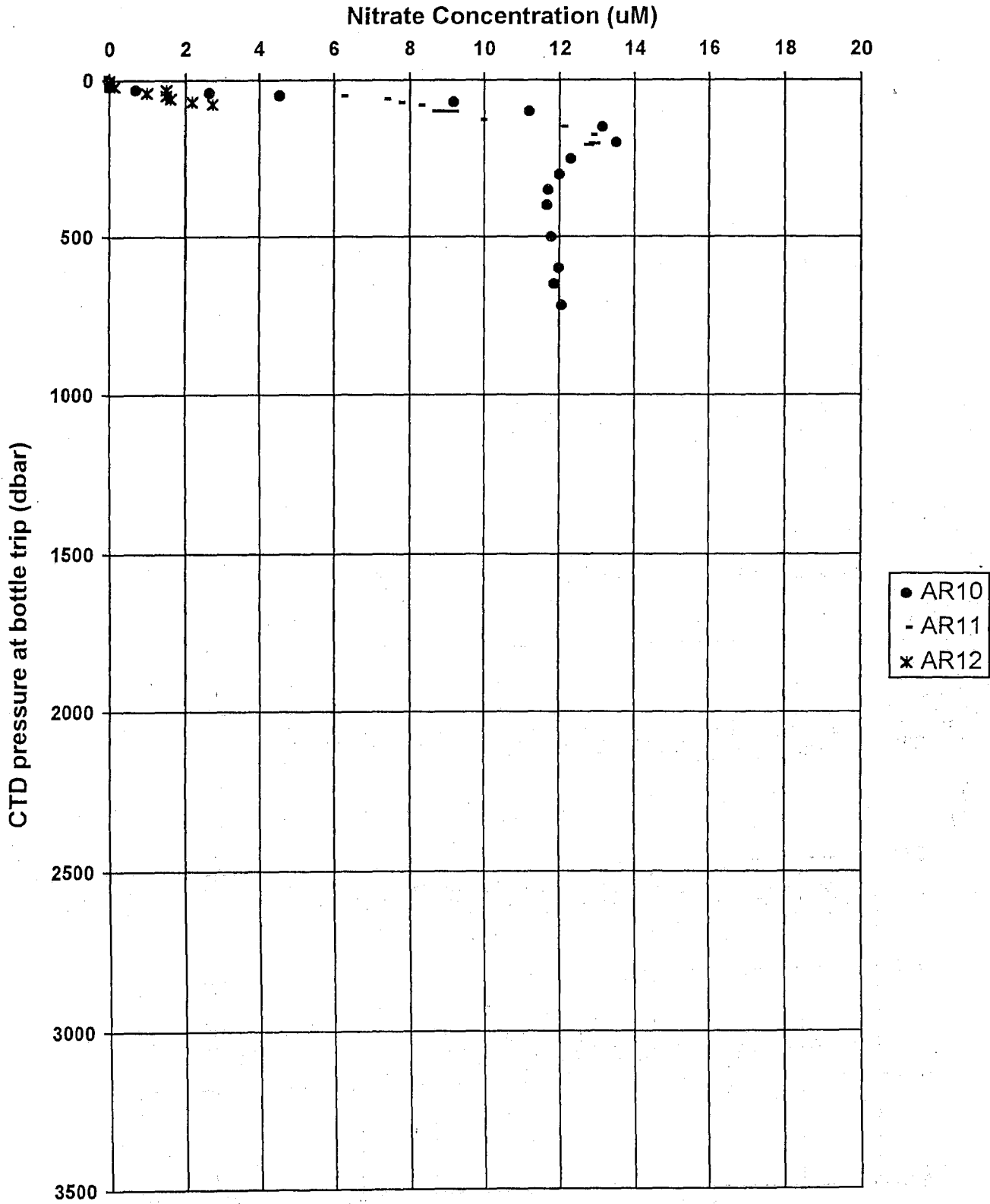




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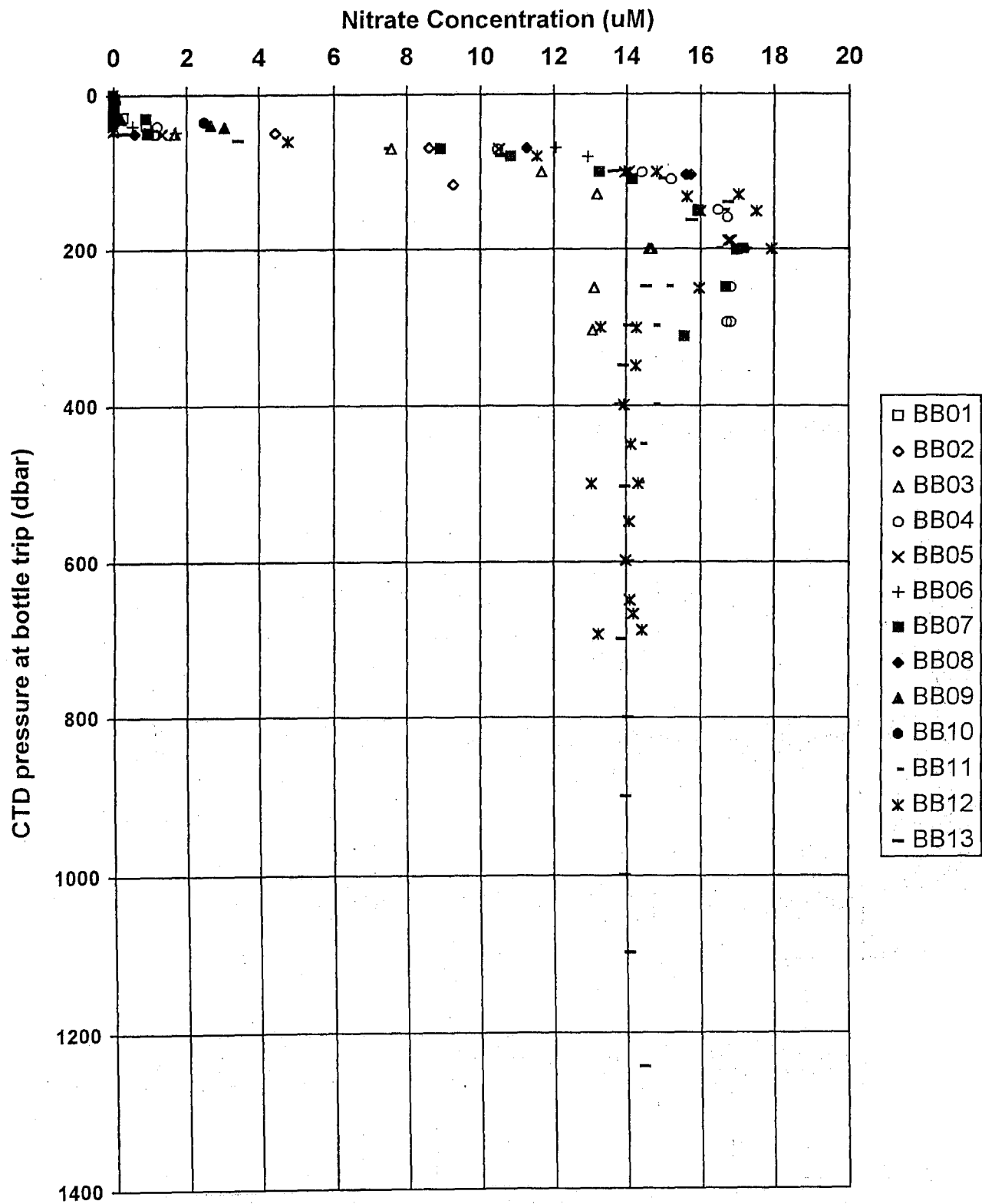


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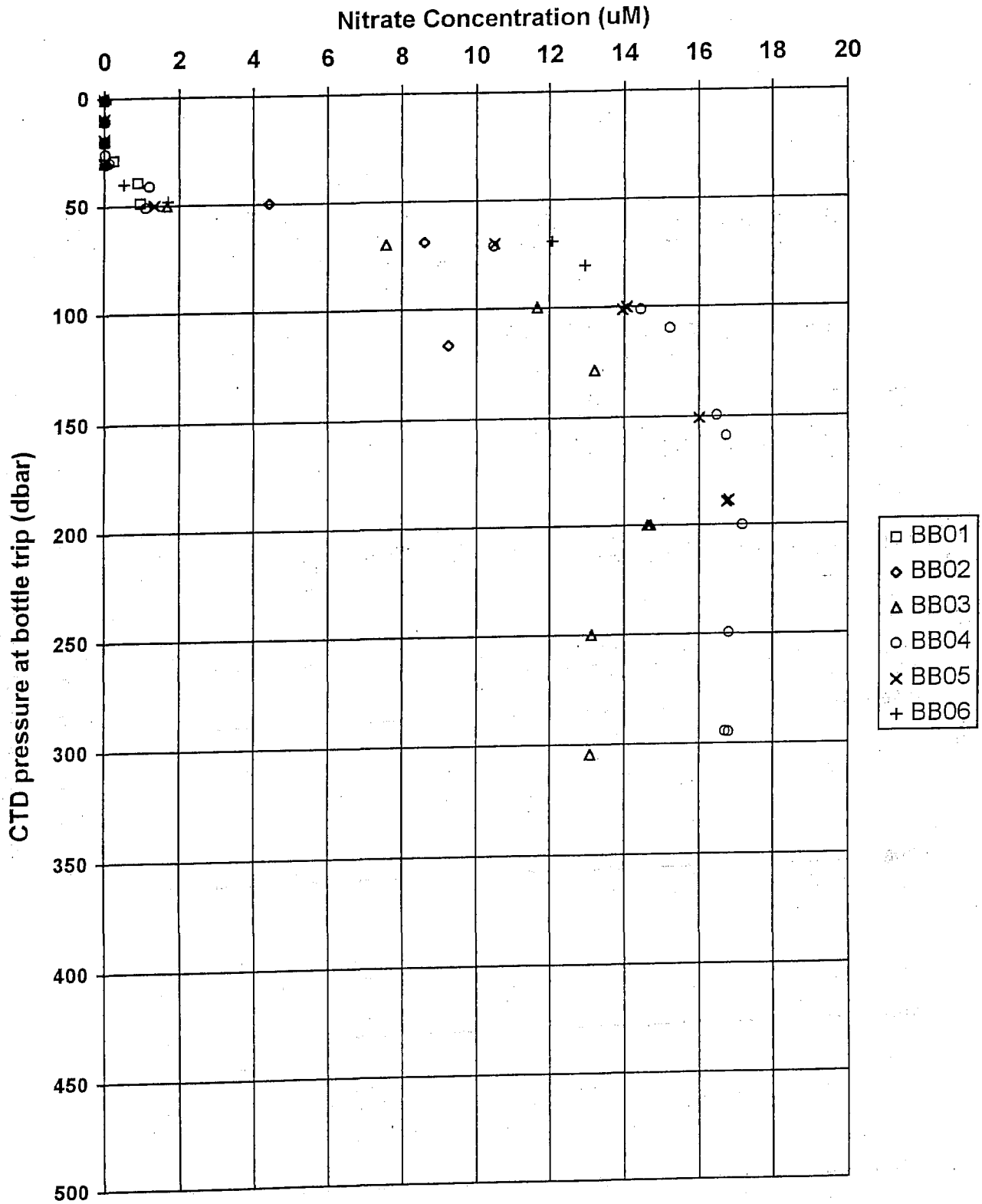




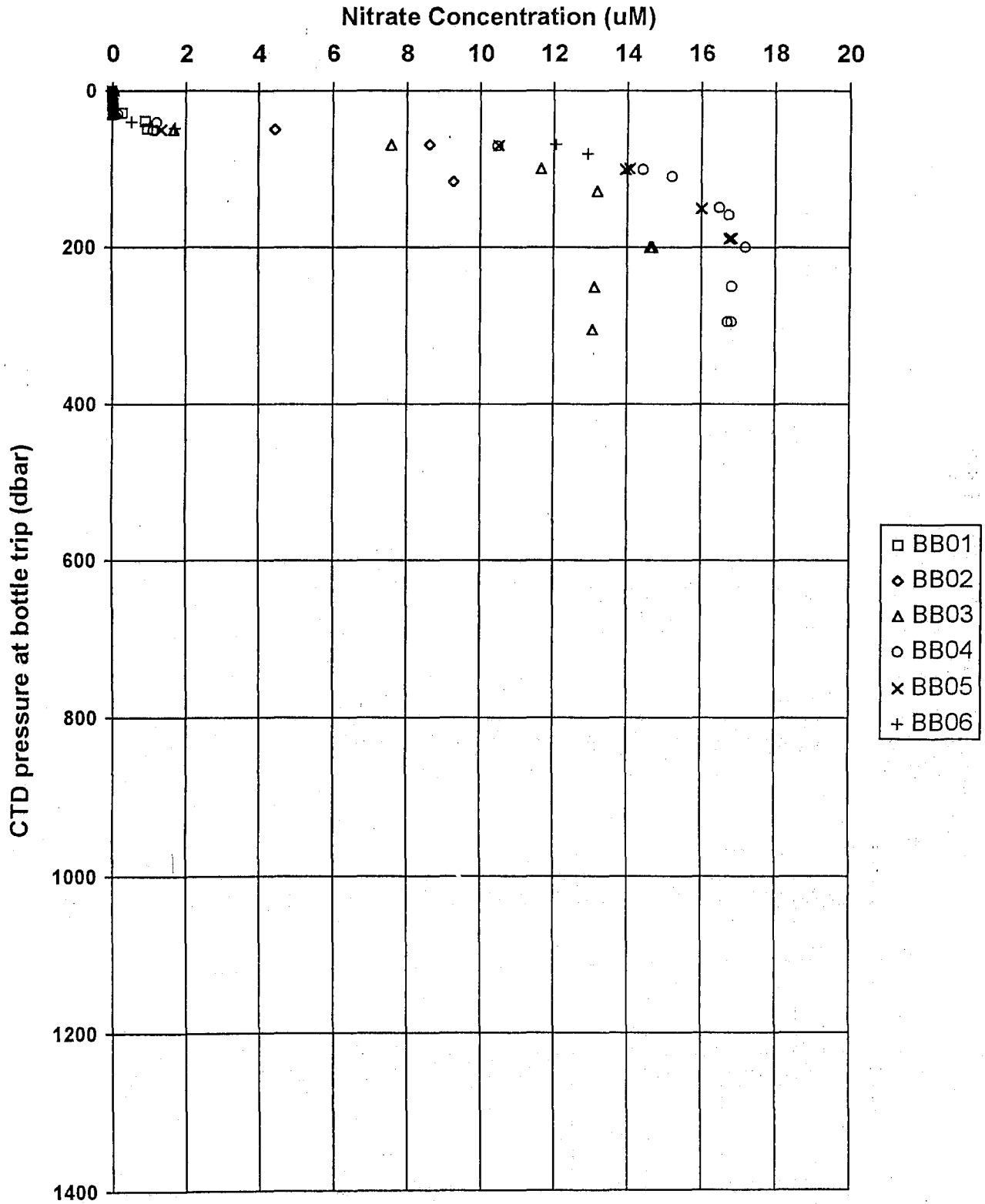
# Cruise 9526 - Nitrate Profiles



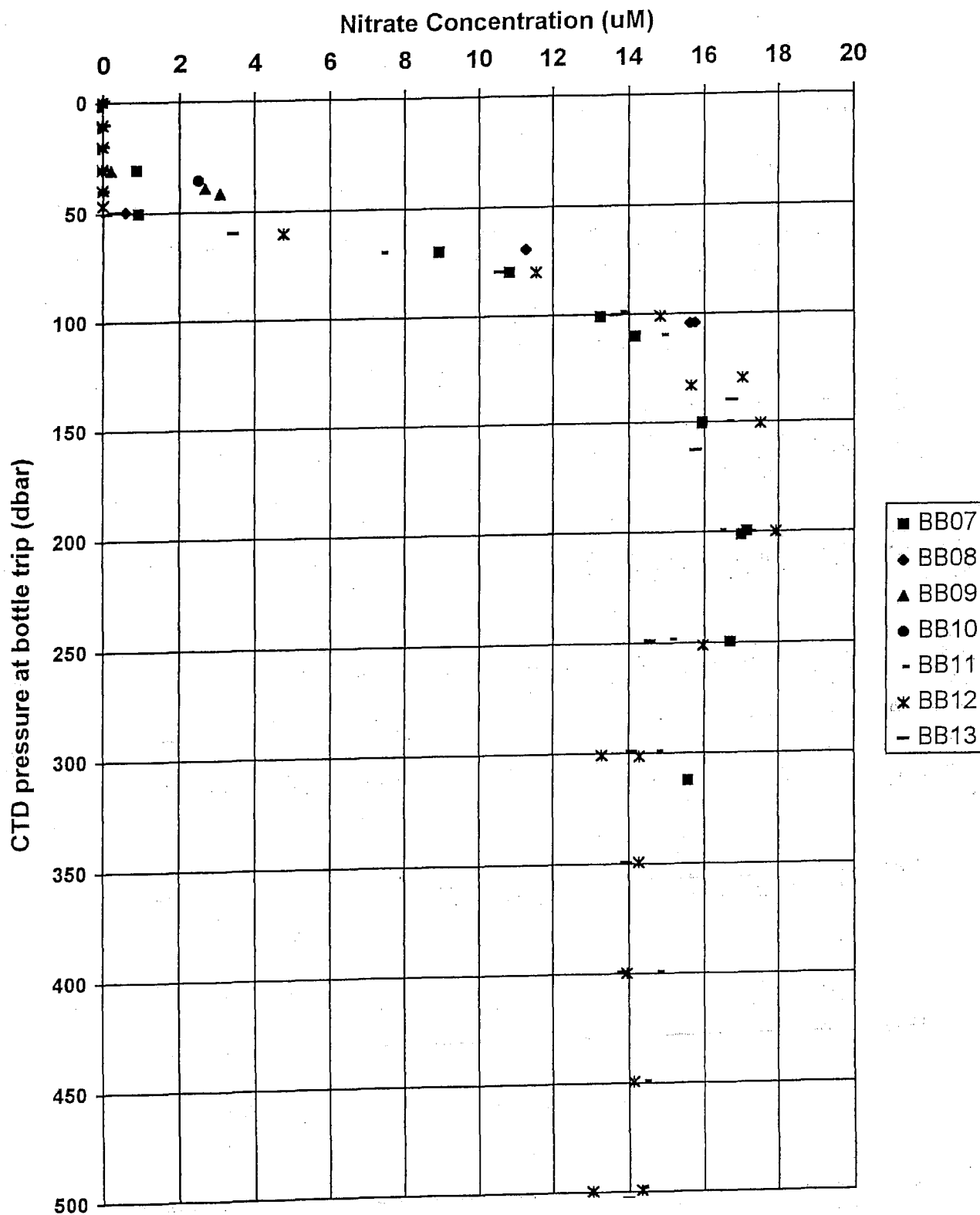
# Cruise 9526 - Nitrate Profiles



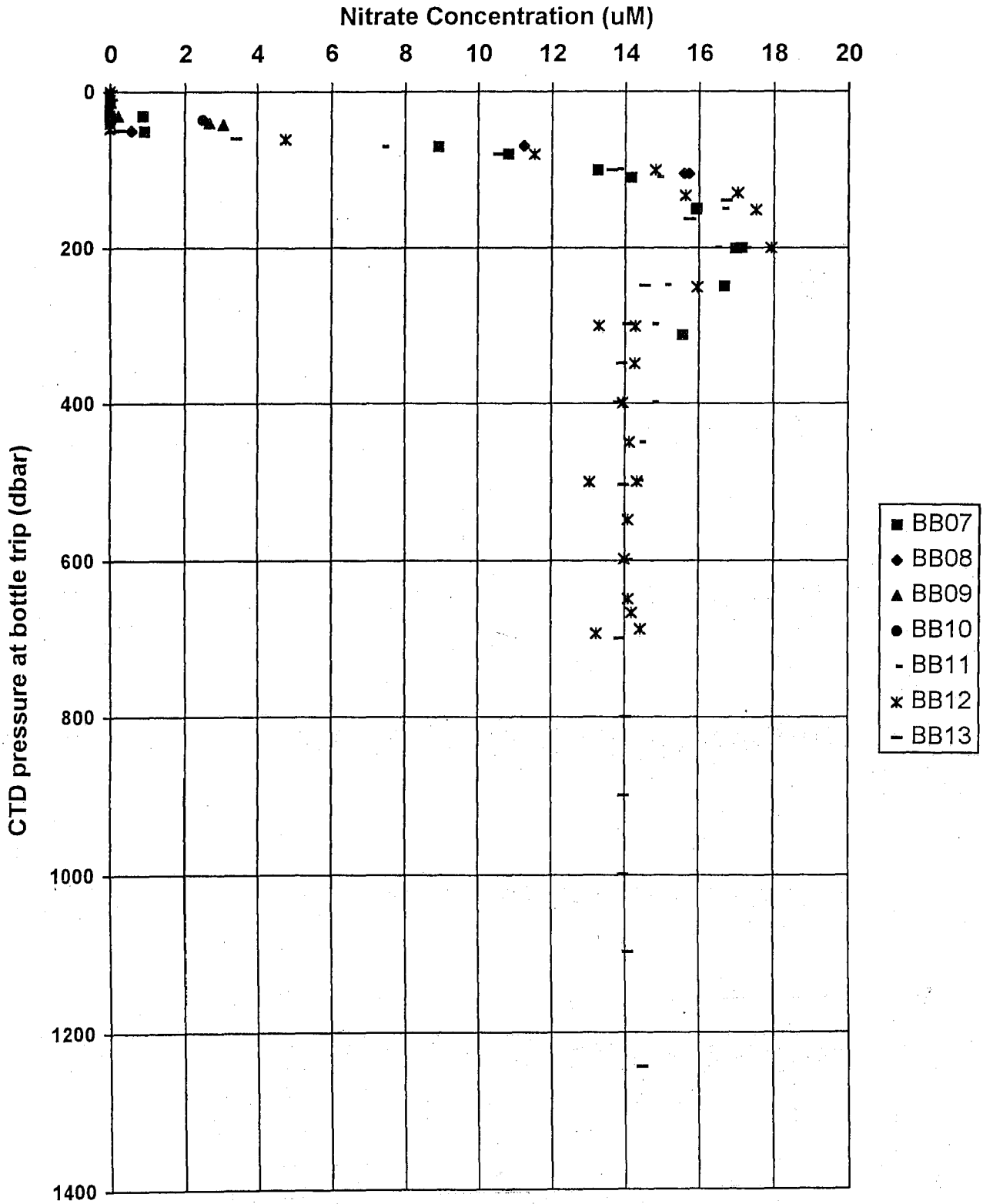
# Cruise 9526 - Nitrate Profiles



# Cruise 9526 - Nitrate Profiles

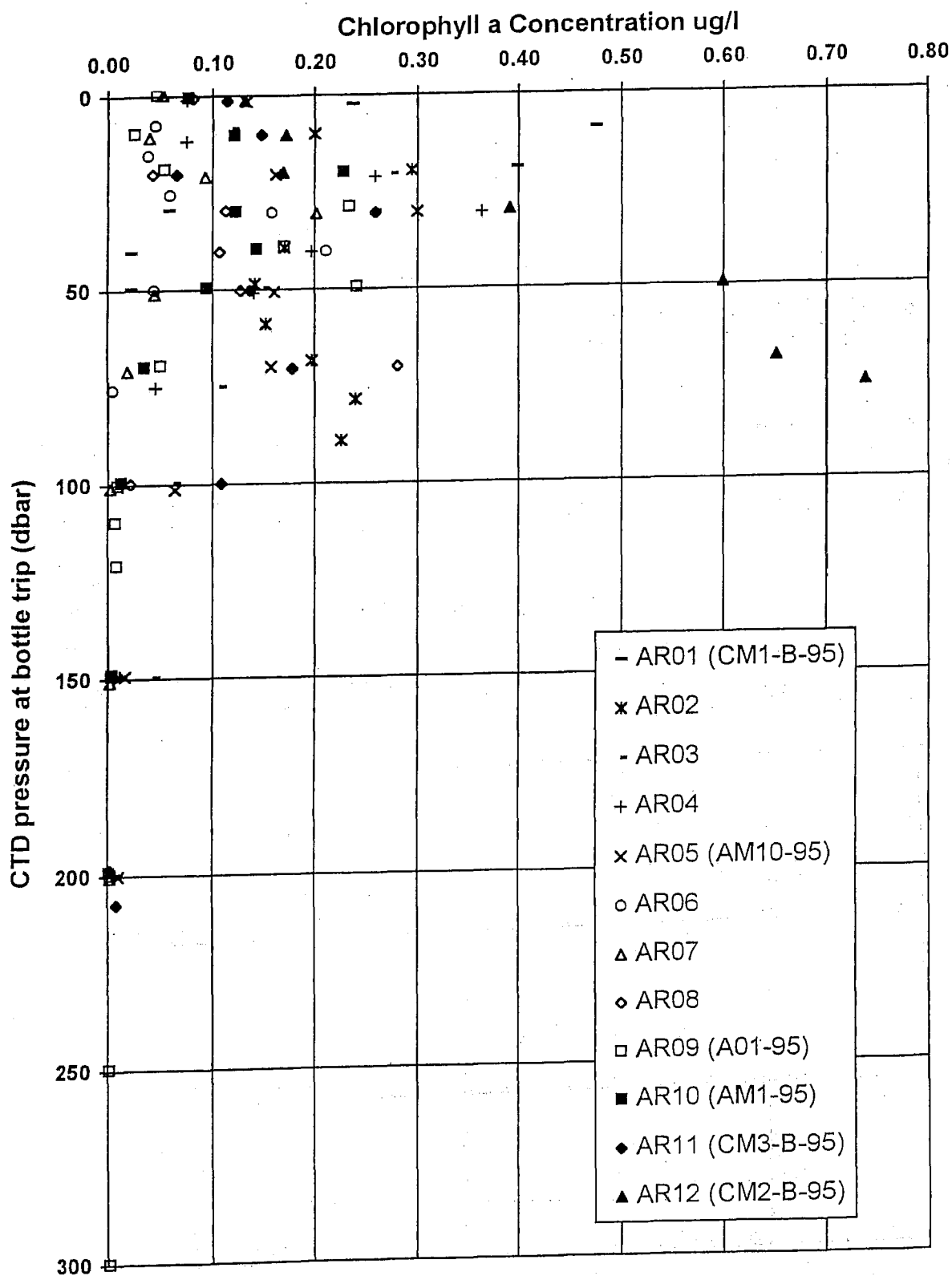


# Cruise 9526 - Nitrate Profiles

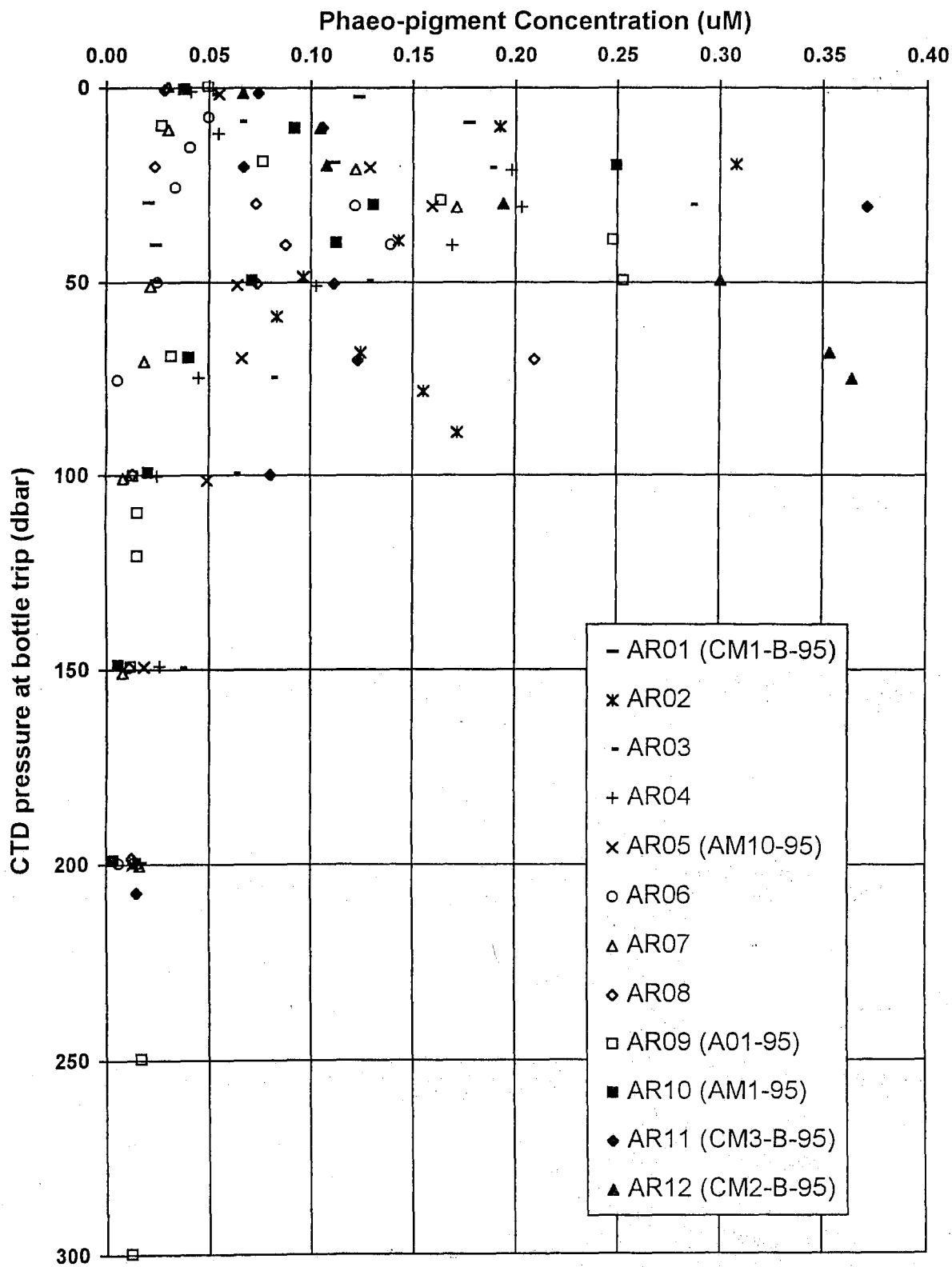




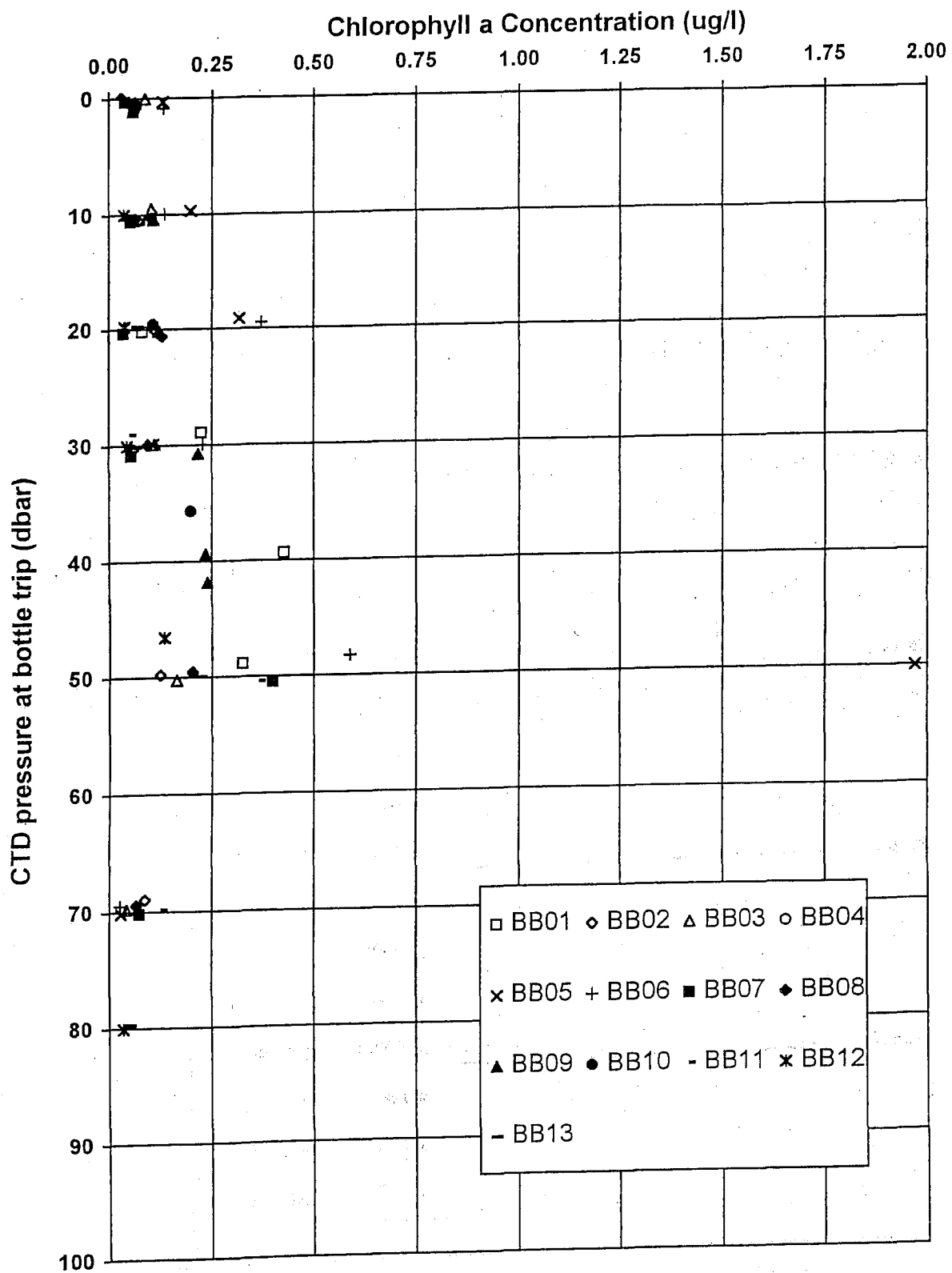
# CRUISE 9526 - Chlorophyll a profiles



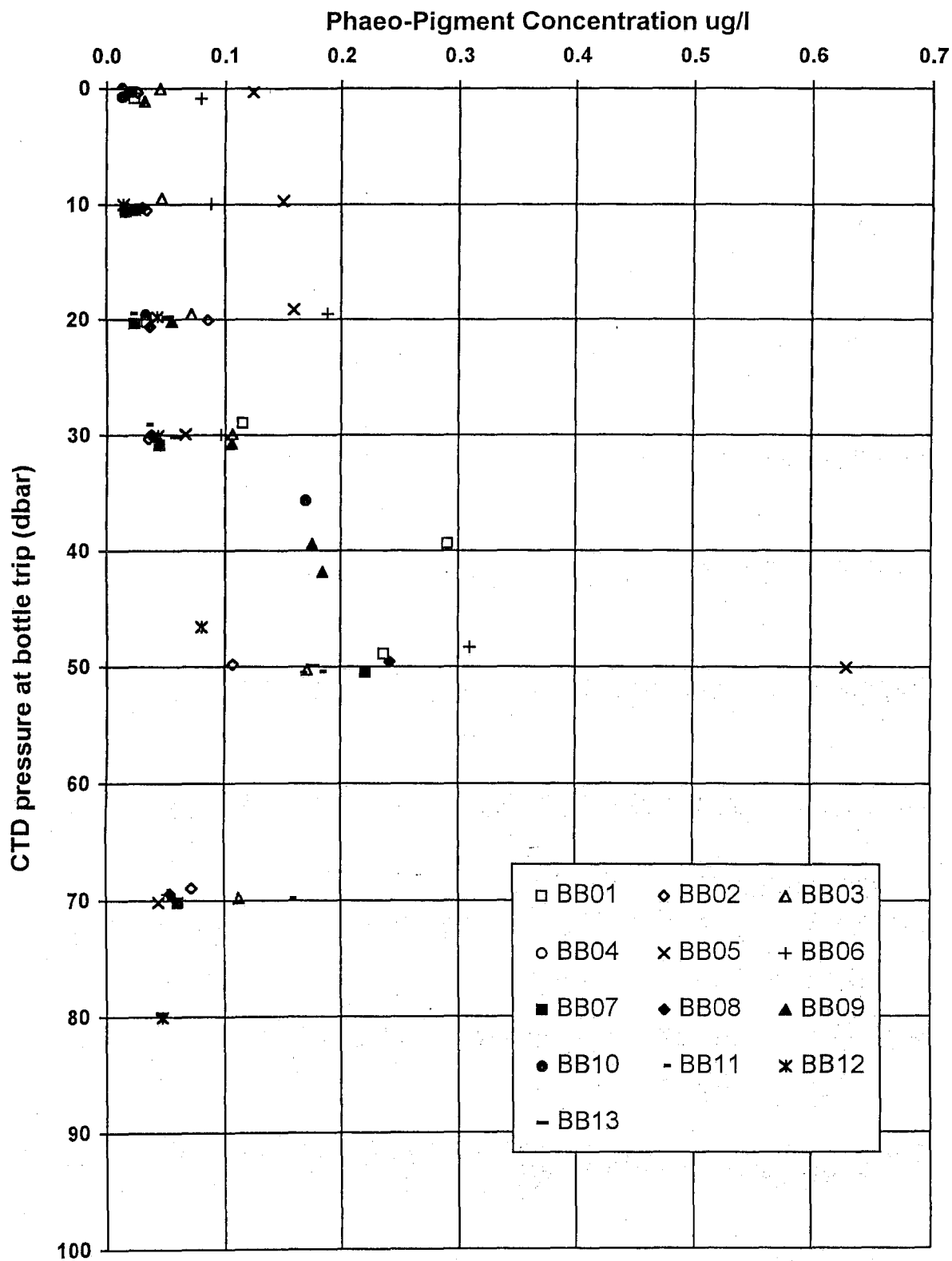
### CRUISE 9526 - Phaeo-Pigment Profiles



# CRUISE 9526 - Chlorophyll a profiles



### CRUISE 9526 - Phaeo-Pigment Profiles



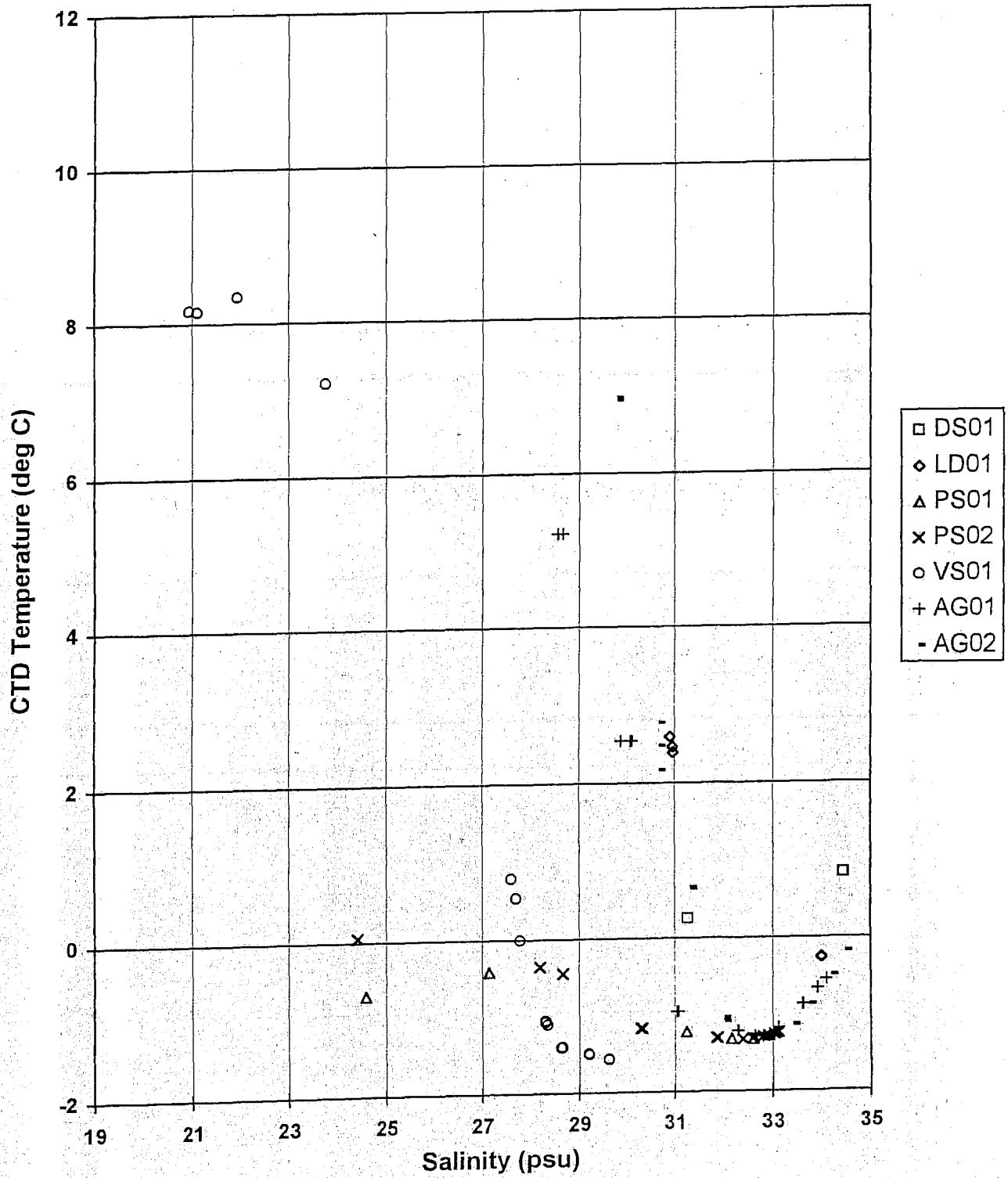
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#### **4.4 Chemistry Property / Property Plots**

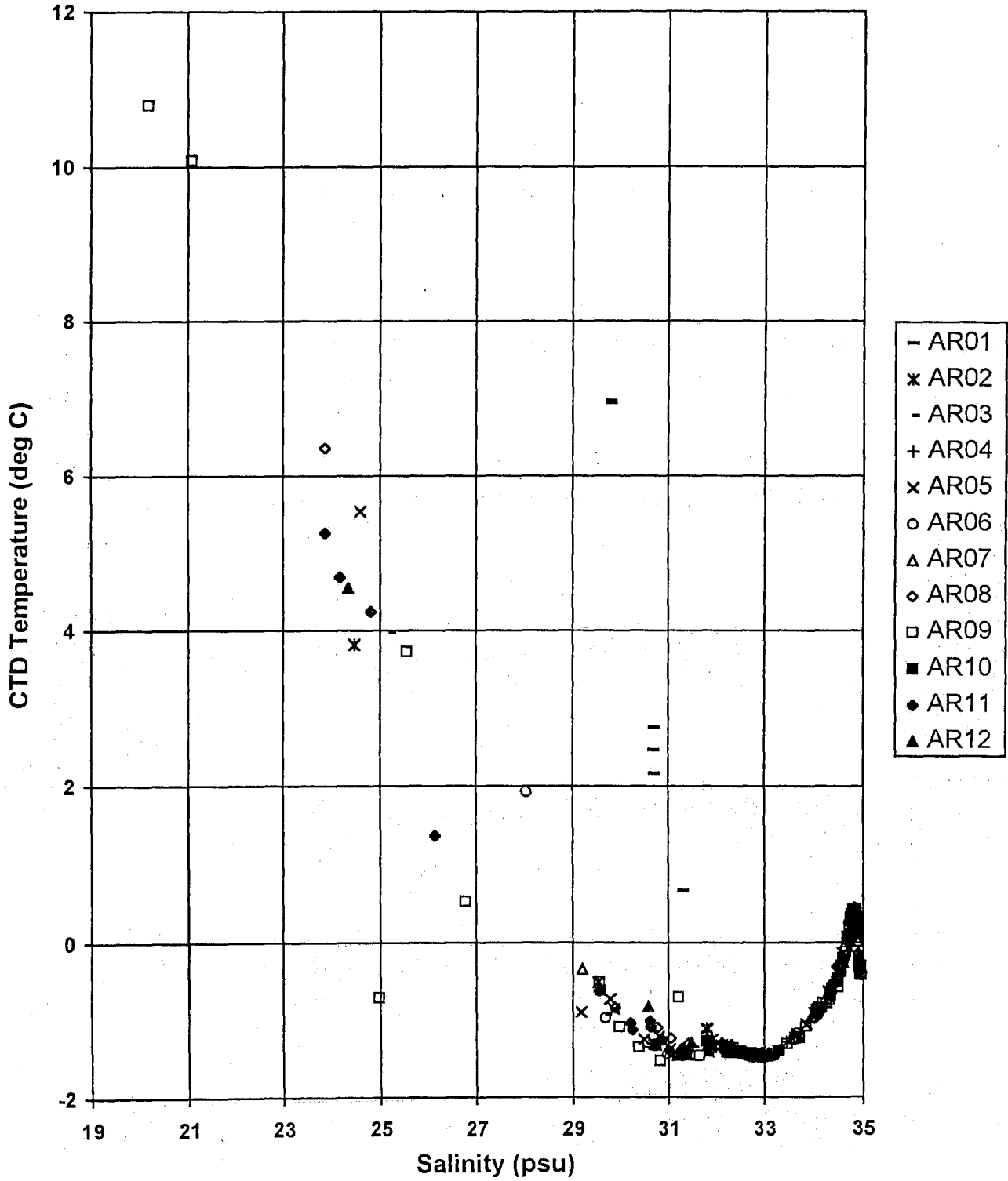
The following Appendix contains property / property plots as follows :

- Temperature - Salinity (TS plots)
- Oxygen - Salinity
- Silicate - Salinity
- Nitrate - Salinity
- Phosphate - Salinity
- Temperature - Oxygen

CRUISE 9526

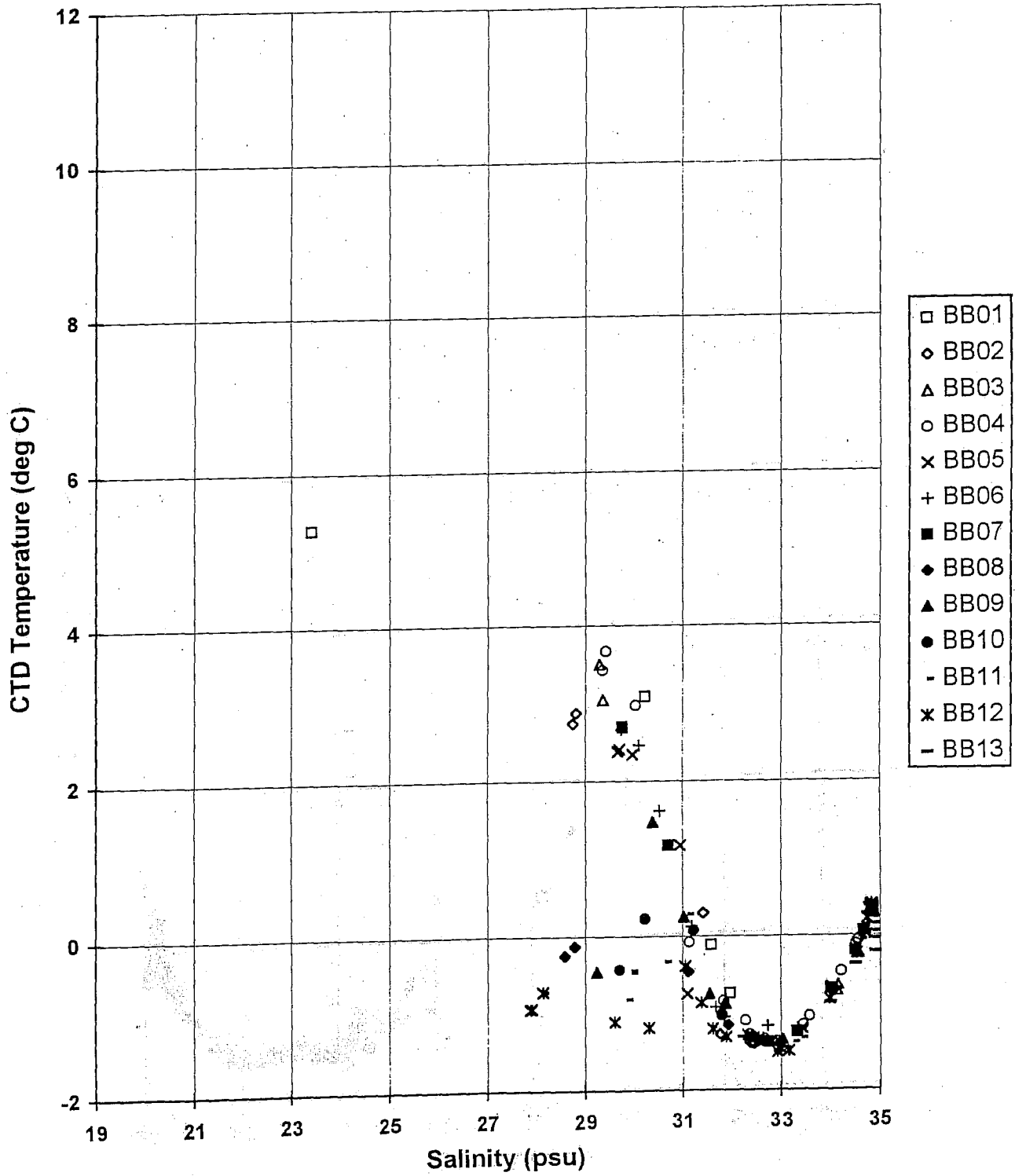


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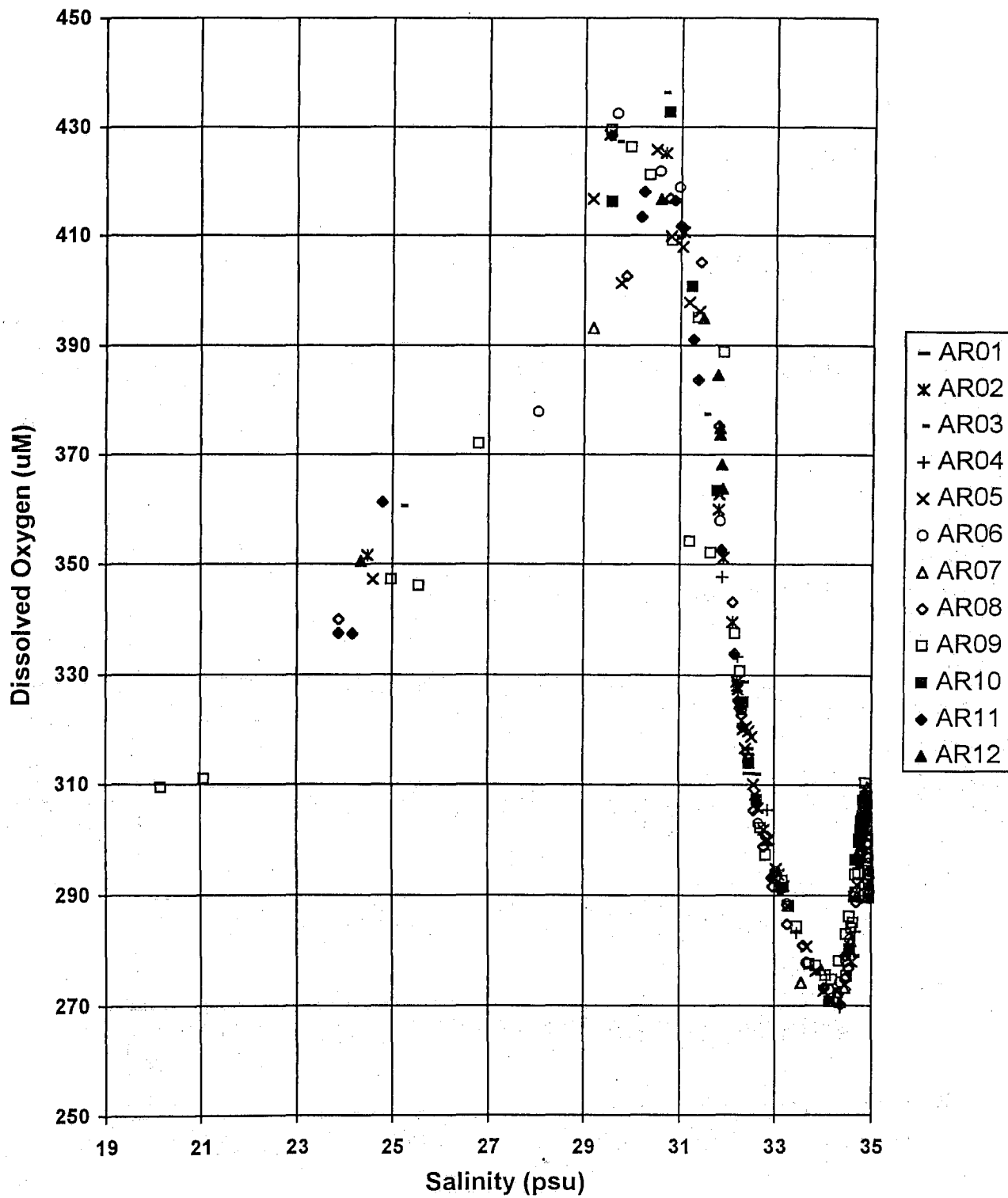




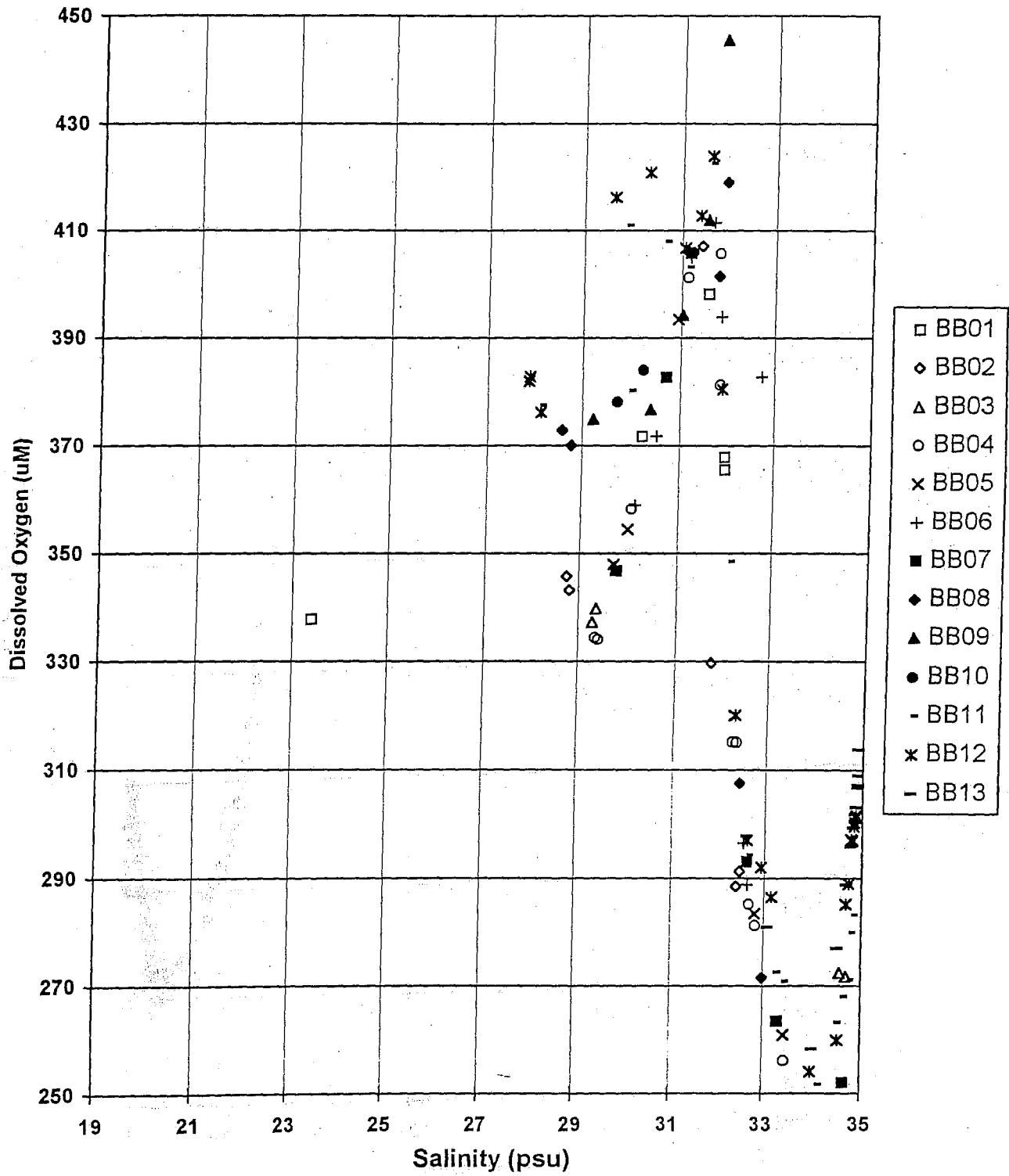
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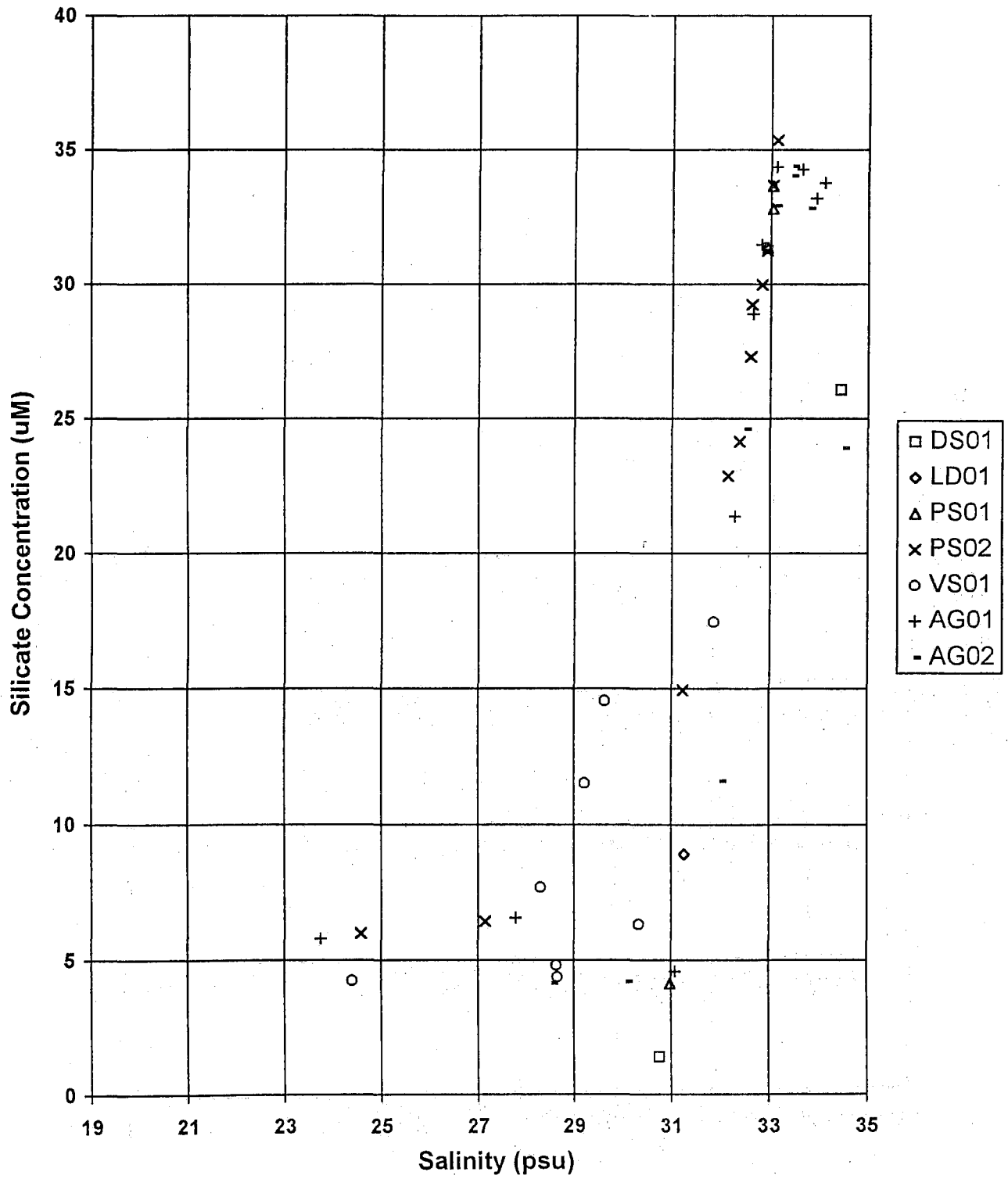
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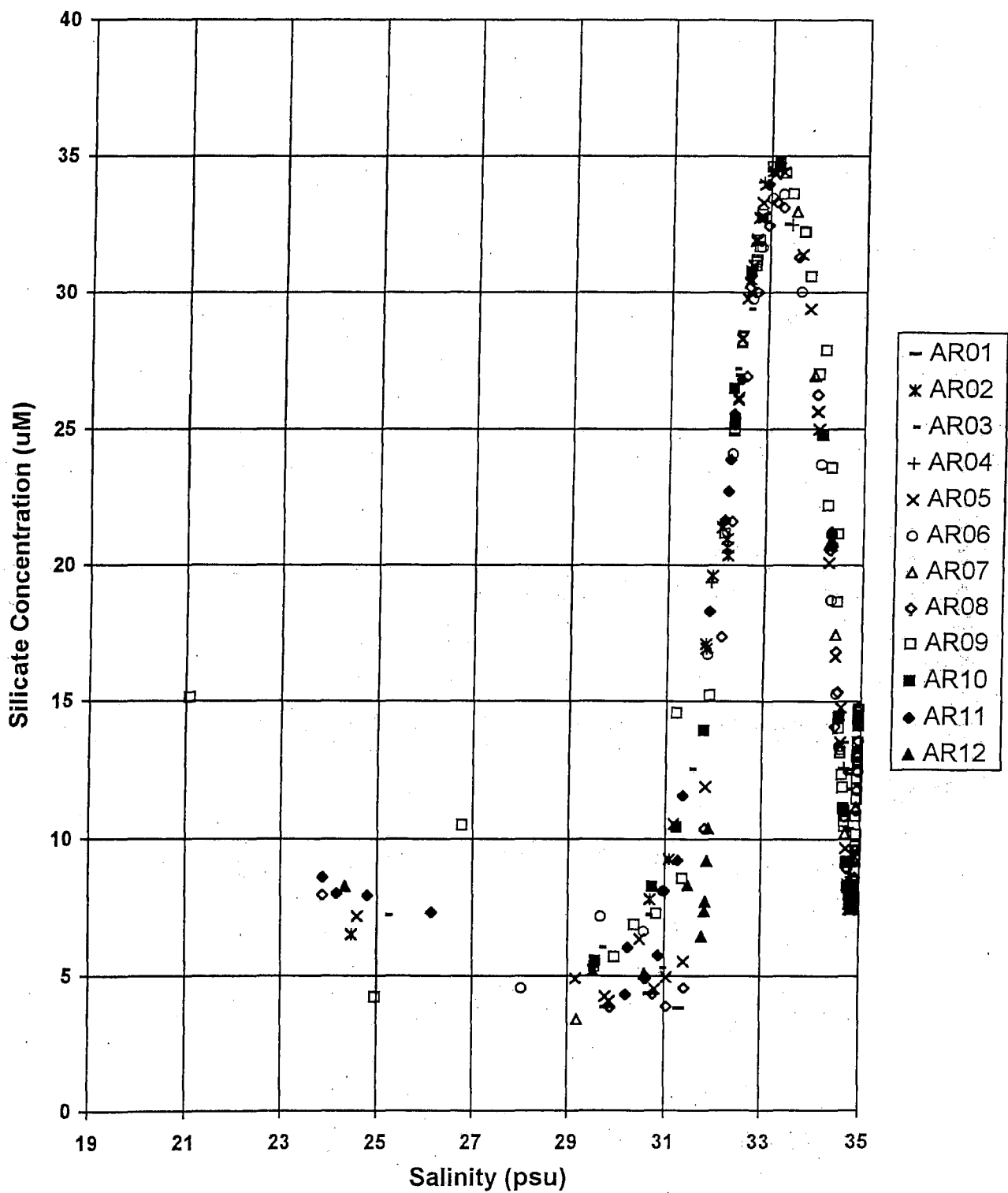
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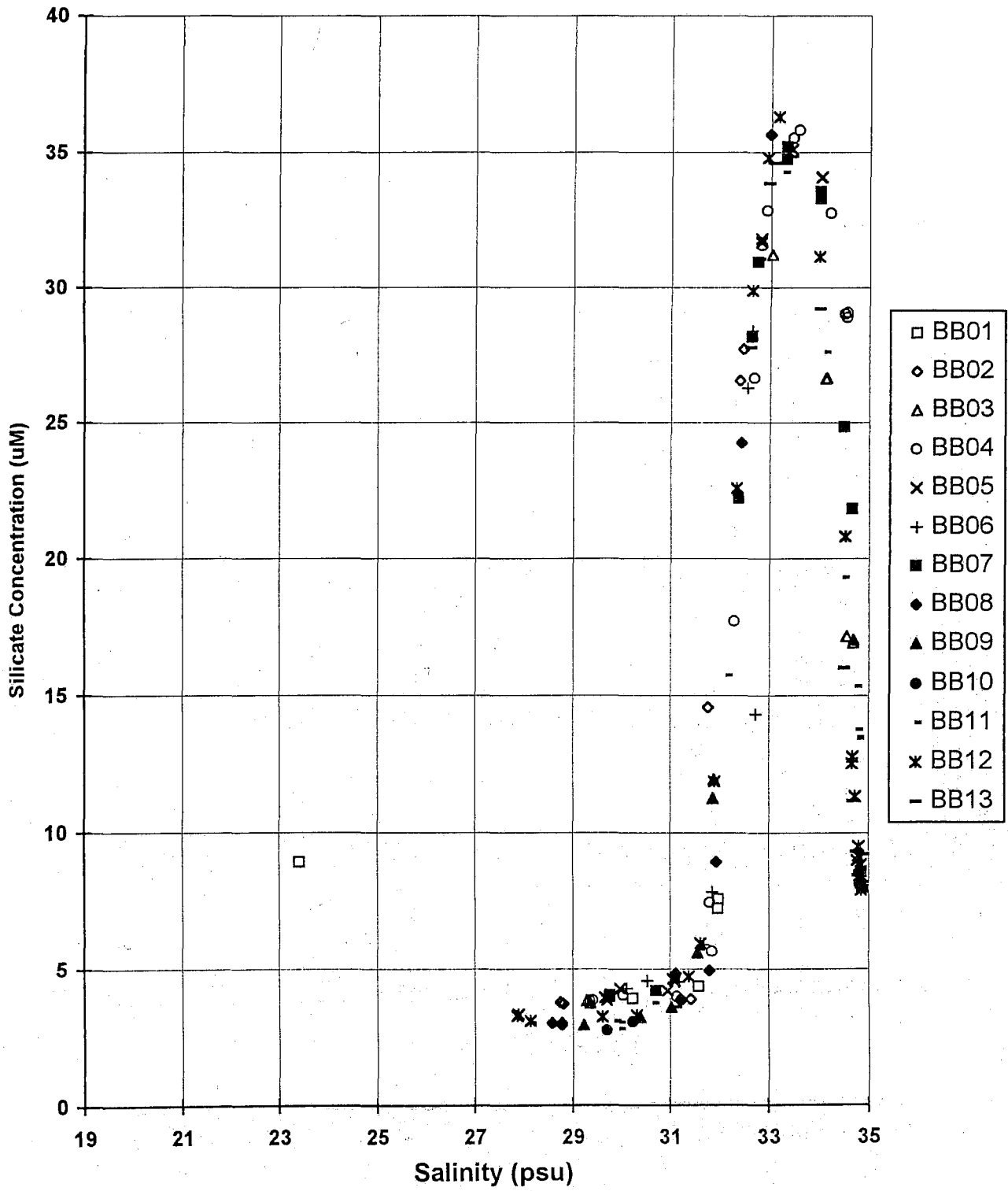
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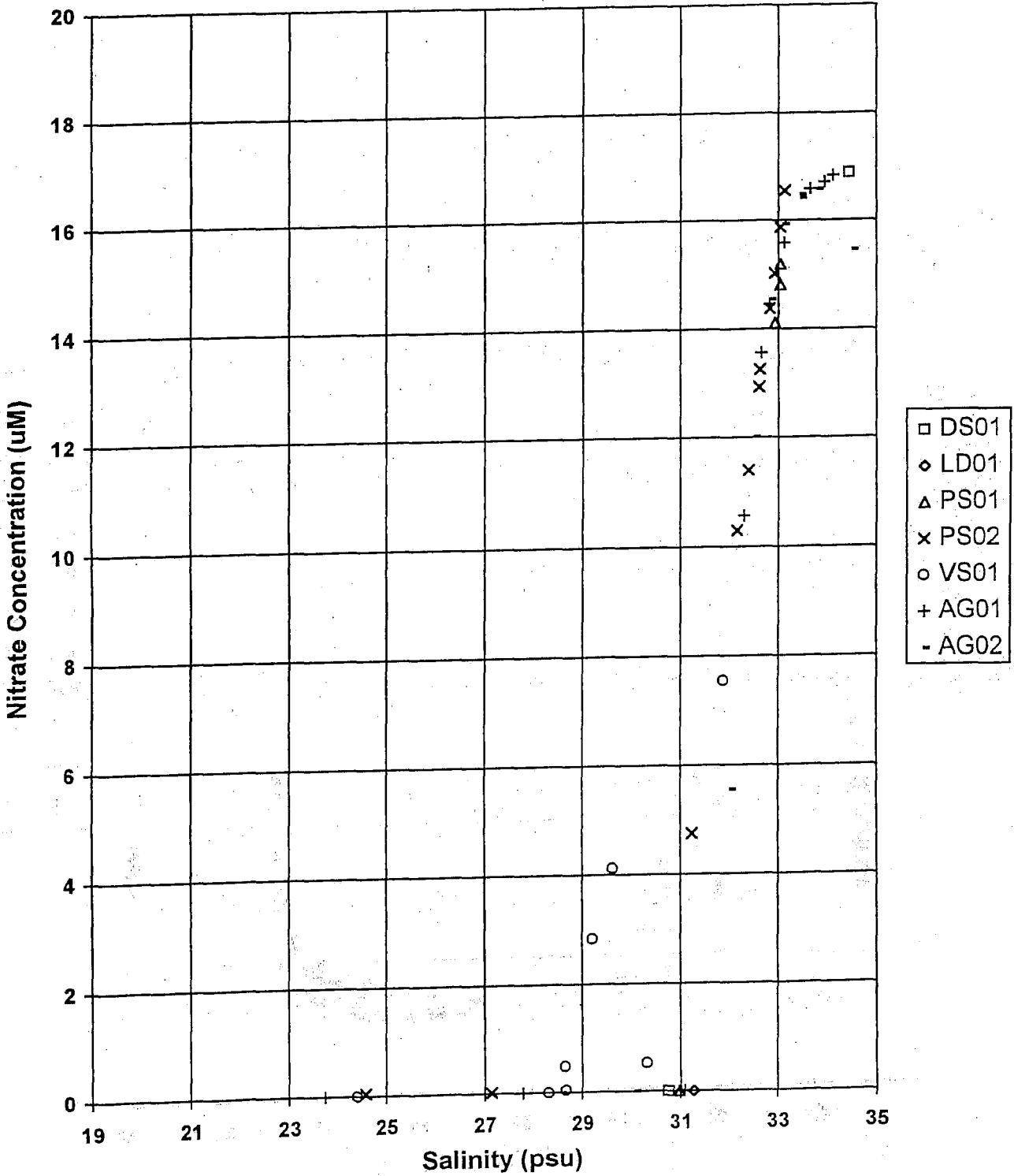
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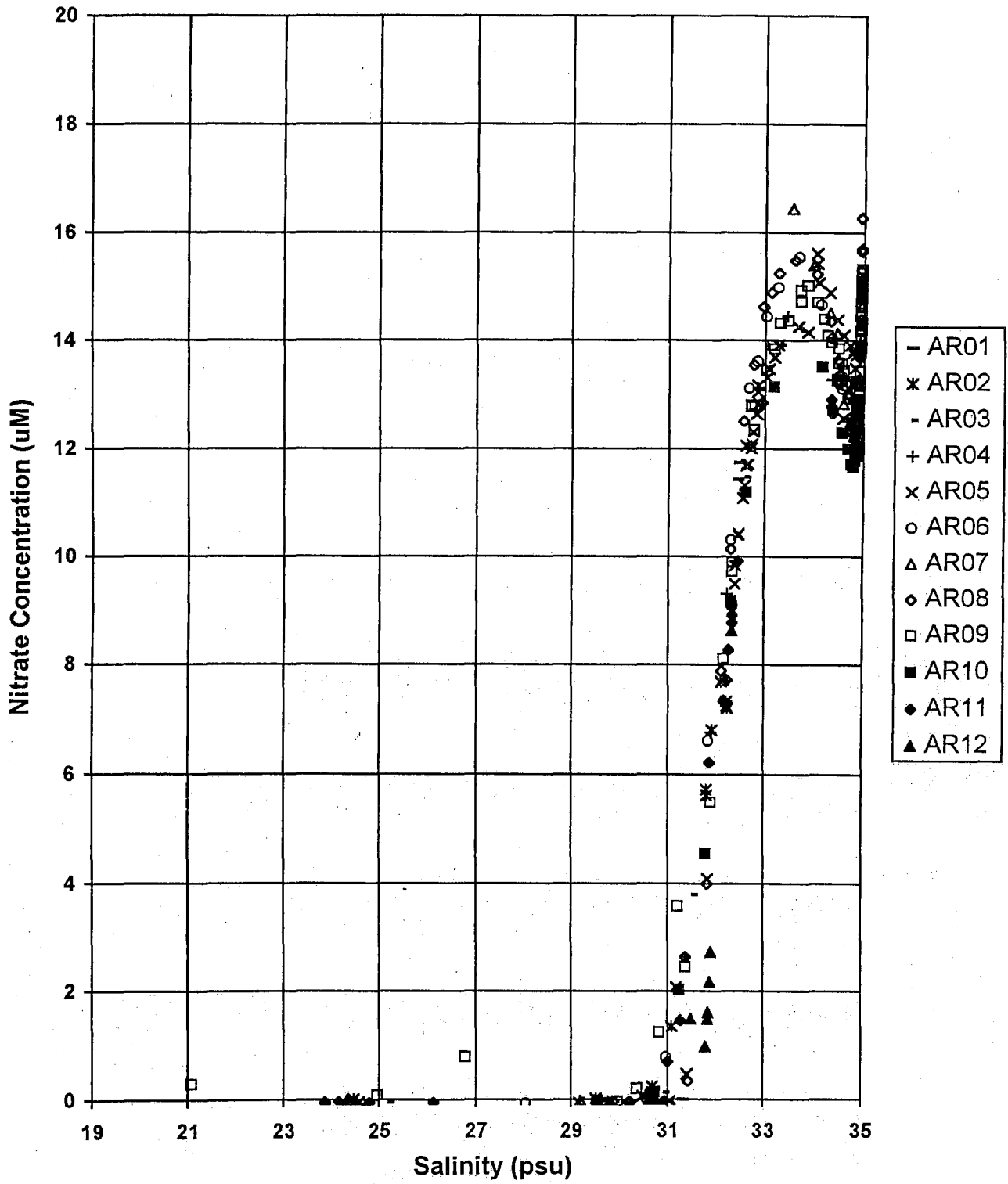
# CRUISE 9526



CRUISE 9526

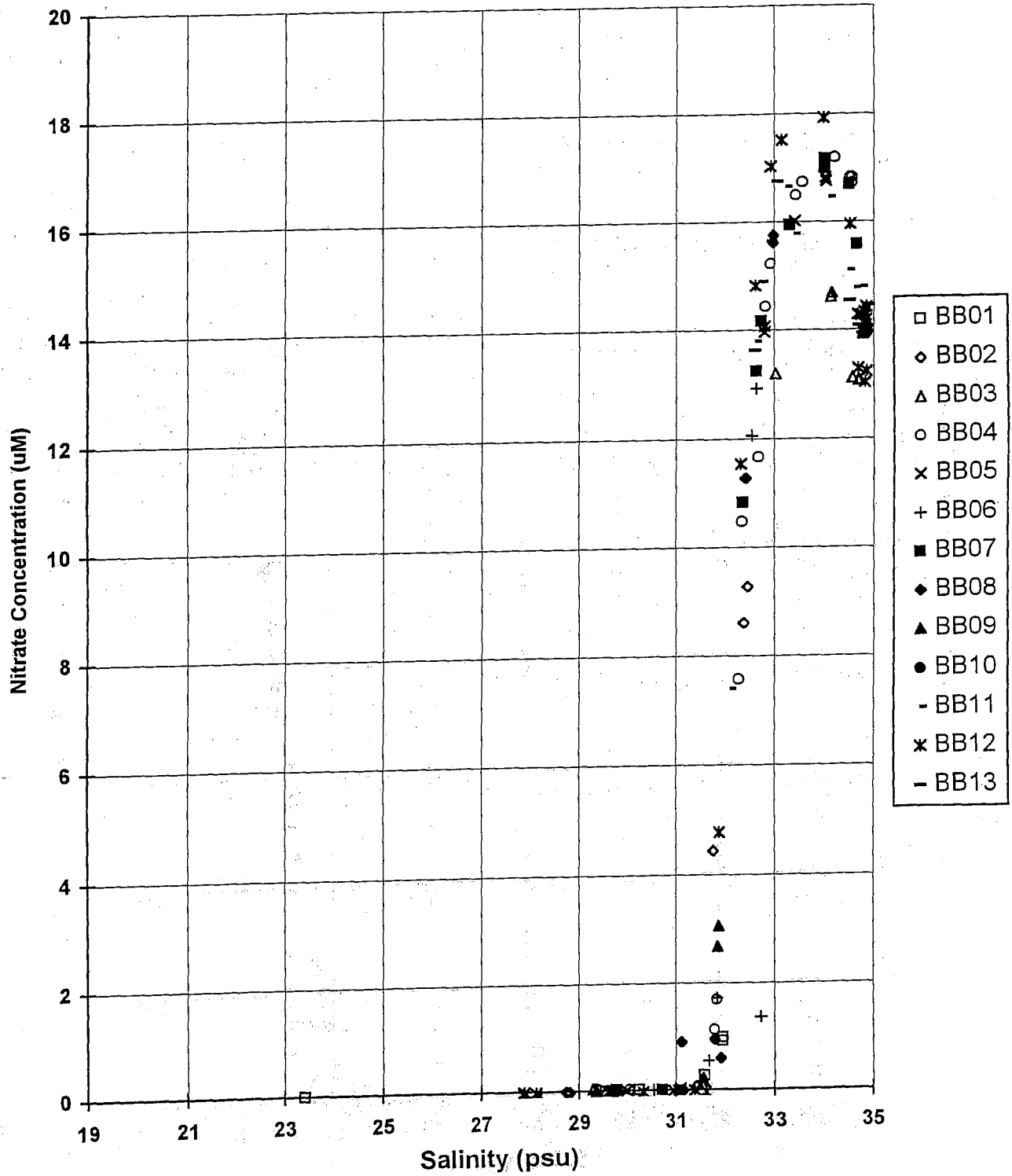


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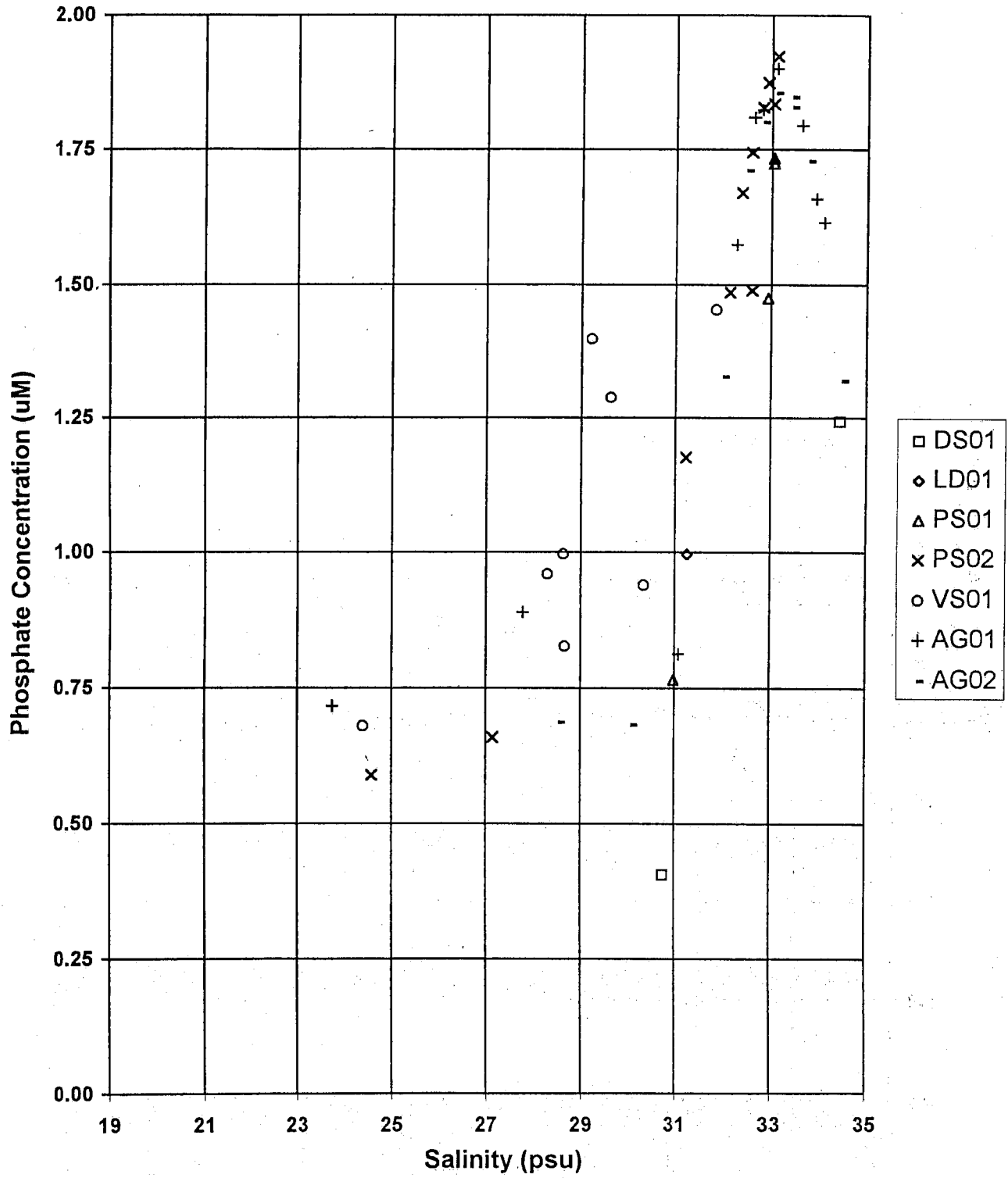




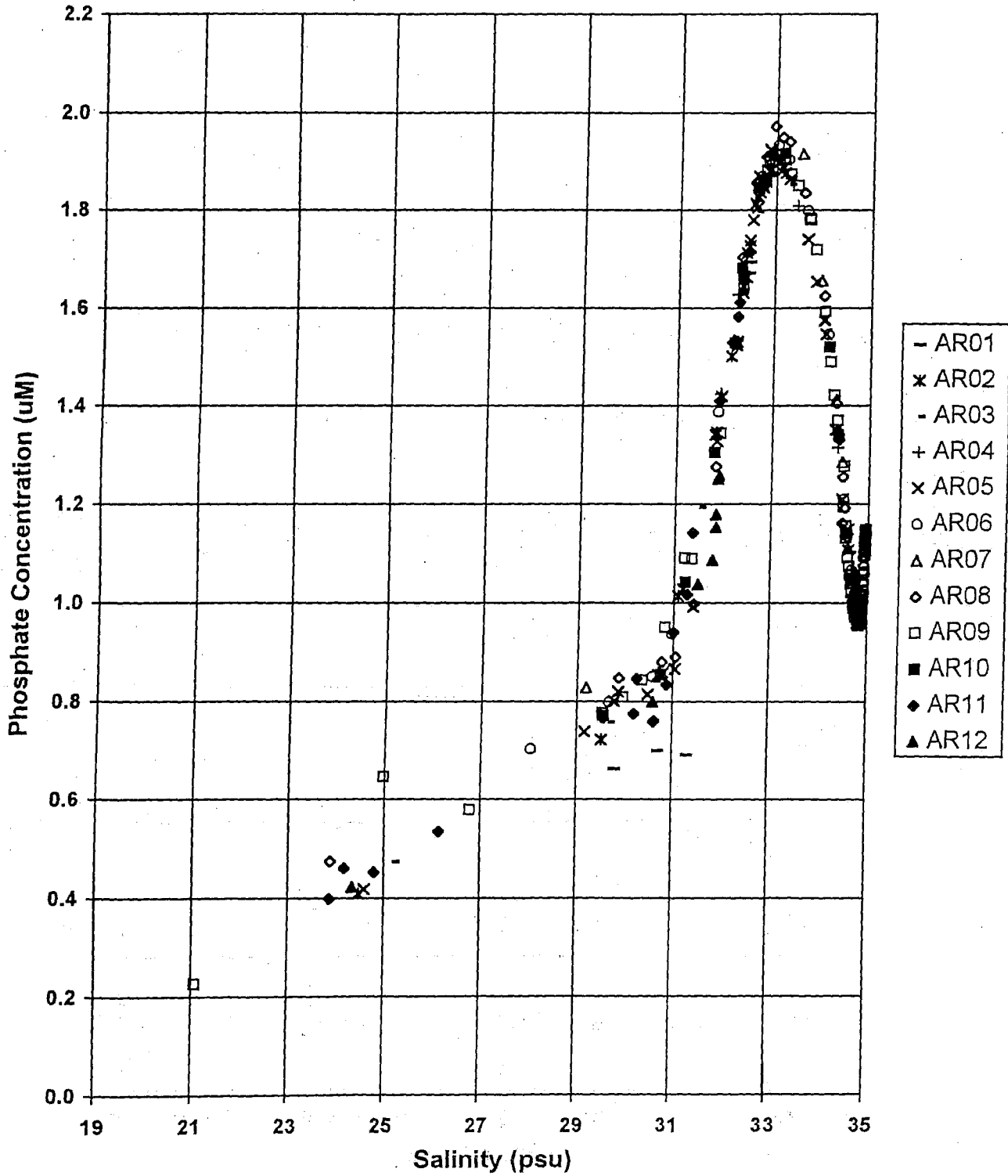
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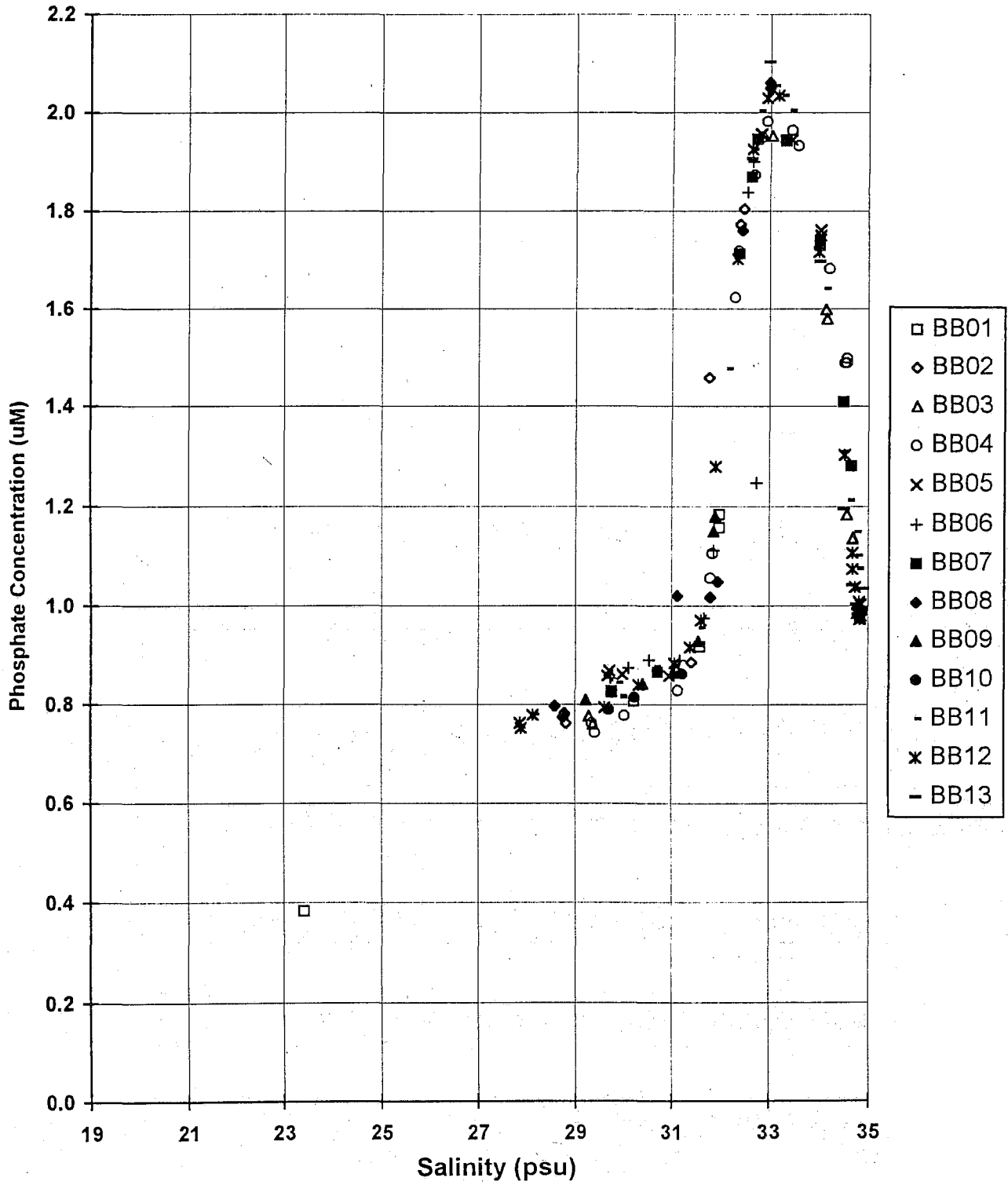
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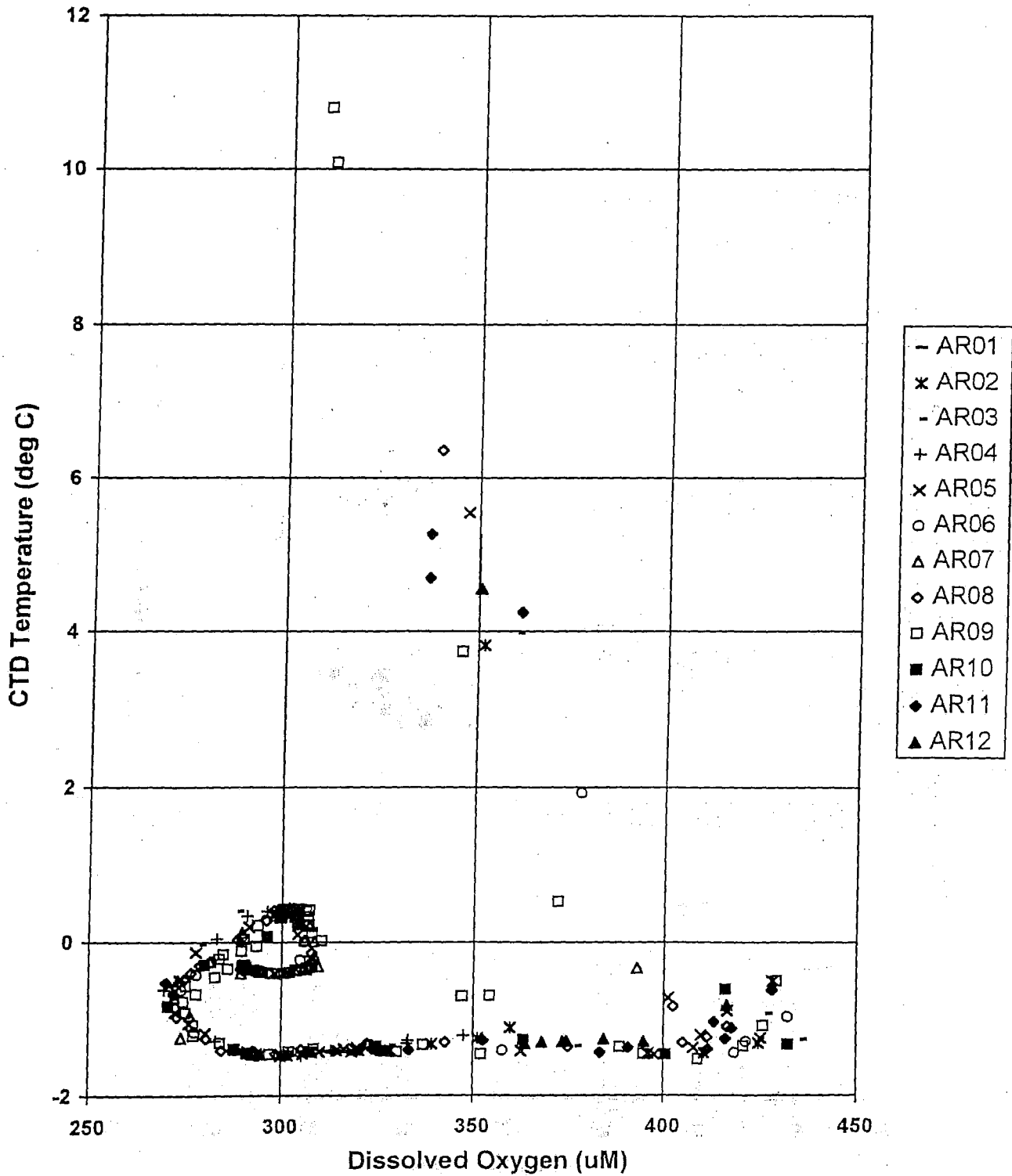
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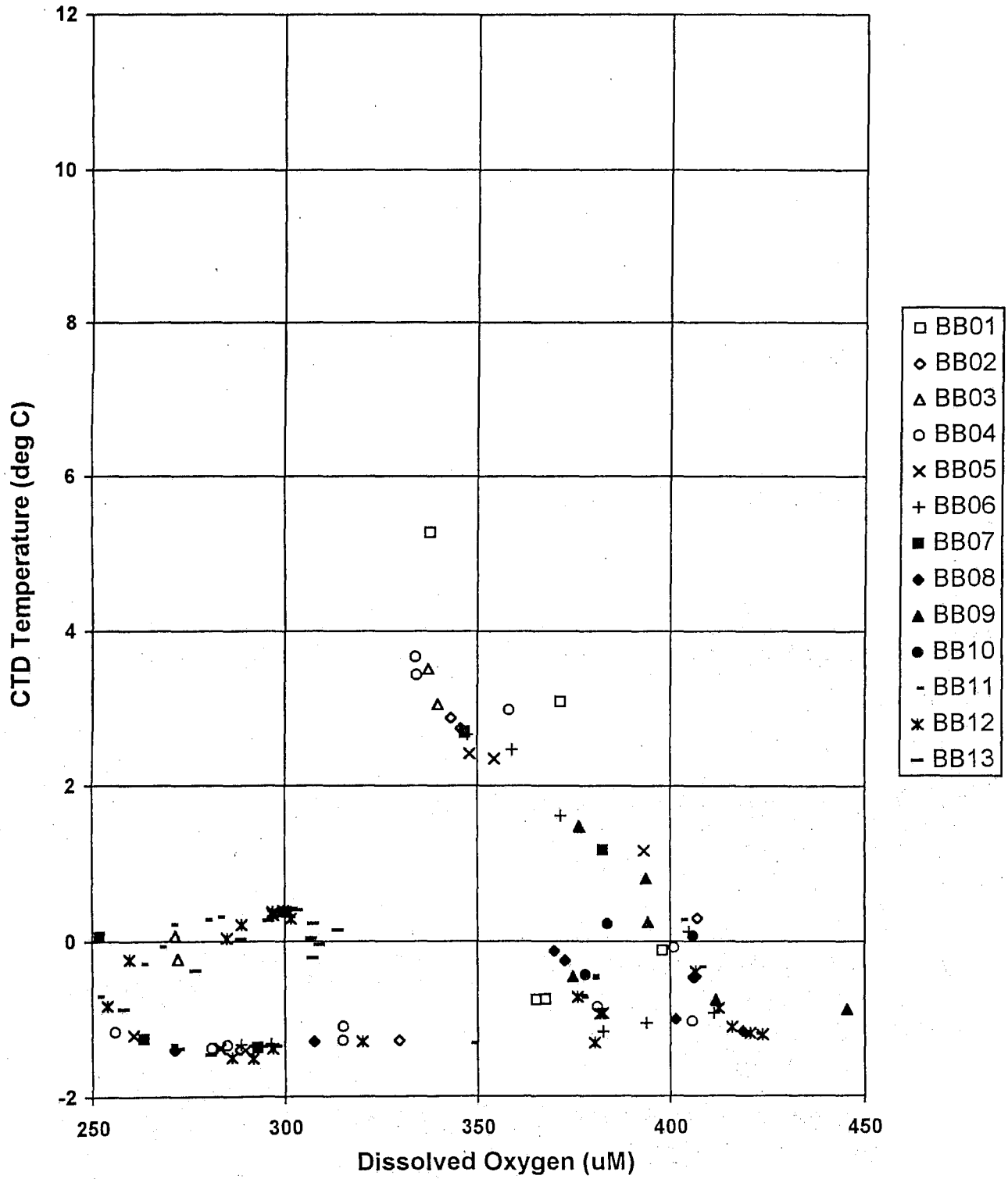
# CRUISE 9526



CRUISE 9526



CRUISE 9526



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Macdonald, R.W., K. Iseki, E.C. Carmack, D.M. Macdonald, M.C. O'Brien, and F.A. McLaughlin, 1988. Data Report: NOGAP B.6; Beaufort Sea Oceanography, September, 1986. *Can. Data Rep. Hydrogr. Ocean Sci.* **58**, 68pp.

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Pearson R., M. O'Brien, D. Sieberg, F.A. McLaughlin, D.W. Paton, D. Tuele, J. Barwell-Clarke, E.C. Carmack, R.W. Macdonald and M. Galbraith 1994., NOGAP B.6, Physical and chemical data collected in the Beaufort Sea and Mackenzie River delta, April-May and September, 1992, and ice core data collected in 1991-1992. *Can. Data Rep. Hydrogr. Ocean Sci.*: **129**, 199pp