

WOCE RADIOCARBON IV: PACIFIC OCEAN RESULTS; P10, P13N, P14C, P18, P19 & S4P

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ABSTRACT. The World Ocean Circulation Experiment, carried out between 1990 and 1997, provided the most comprehensive oceanic survey of radiocarbon to date. Approximately 10,000 samples were collected in the Pacific Ocean by U.S. investigators for both conventional large volume β counting and small volume accelerator mass spectrometry analysis techniques. Results from six cruises are presented. The data quality is as good or better than previous large-scale surveys. The ^{14}C distribution for the entire WOCE Pacific data set is graphically described using mean vertical profiles and sections, and property-property plots.

INTRODUCTION

This is the fourth in a series of papers that have described the collection and analysis of Pacific Ocean radiocarbon samples resulting from the U.S. portion of the World Ocean Circulation Experiment (WOCE). Key (1996) gave a general overview of the Pacific ^{14}C program including a summary of all U.S. WOCE ^{14}C cruises. Key et al. (1996) presented accelerator mass spectrometry (AMS) results, and Stuiver et al. (1996) presented large volume results from sections P6, P16, P17, and P19 (LV only). Results using both techniques are listed here for sections P10, P13N, P14C, P18, P19 (AMS only), and S4P. Figure 1 shows the station locations (remaining figures are in Appendix 1). All of the sections are essentially meridional except for S4P, which is zonal, in the Southern Ocean, and part of a complete circumpolar section. Additional cruise details are available in Table 1 of Key (1996) and in Appendix 2. In addition to presenting data, we summarize some of the major features of the Pacific Ocean ^{14}C distribution using the entire WOCE dataset.

METHODS AND PRECISION

The sampling strategy and analytical precision for the ^{14}C program described in Key (1996), Key et al. (1996), and Stuiver et al. (1996) and are not repeated here. Since then, Elder et al. (1998) published a more detailed analysis of the uncertainties associated with the WOCE AMS technique. Their analysis was based on replicate results and included uncertainty due to sample processing as well as the various counting components. Summary results from that work are reproduced in Table 1. They found the total error was slightly larger than the expected error based only on counting statistics. The additional uncertainty was ascribed to sample processing. They also found a slight difference in the total error between samples that were stripped and counted at NOSAMS and those that were stripped elsewhere, then shipped to NOSAMS as gas aliquots for final processing and counting. Errors given in the Appendix 2 tables are the same as given in Key et al. (1996) and Stuiver et al. (1996). For AMS samples, the uncertainty for individual analyses is the counting precision reported by NOSAMS. For replicates, the uncertainty is the larger of the standard deviation of the individual runs, and the error weighted standard deviation of the mean of the individual runs. Retaining these error estimates can occasionally give relative information for problematic samples. Individual counting errors are given

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for the large volume samples. It is much more difficult to estimate total uncertainty for large-volume samples because the number of replicates is far too small to give statistically significant results. The total large volume error can be as small as the counting error (~2‰ for analysis in Stuiver's laboratory). There are, however, additional potential error sources in collection, extraction, and storage. Neither Elder et al. (1998) nor Key (1996) found any significant difference between the large volume and AMS techniques when comparing results on individual station profiles. For the combined WOCE Pacific Ocean data set, an uniform uncertainty of 4.5‰ is recommended.

Table 1 Summary results of replicate AMS analyses at NOSAMS (from Elder et al. 1998)

| Sample Type | Number of analyses | Number of replicate sets | Degrees of freedom | Mean reported precision | Pooled error estimate | Sample processing error |
|---------------------------------------|--------------------|--------------------------|--------------------|-------------------------|-----------------------|-------------------------|
| Seawater DIC ^a | 162 | 73 | 89 | 4.3 | 4.9 | 2.4 |
| Seawater CO ₂ ^b | 46 | 21 | 25 | 3.4 | 5.8 | 4.8 |

^aWater samples stripped at NOSAMS

^bGas samples supplied to NOSAMS by P Quay (University of Washington)

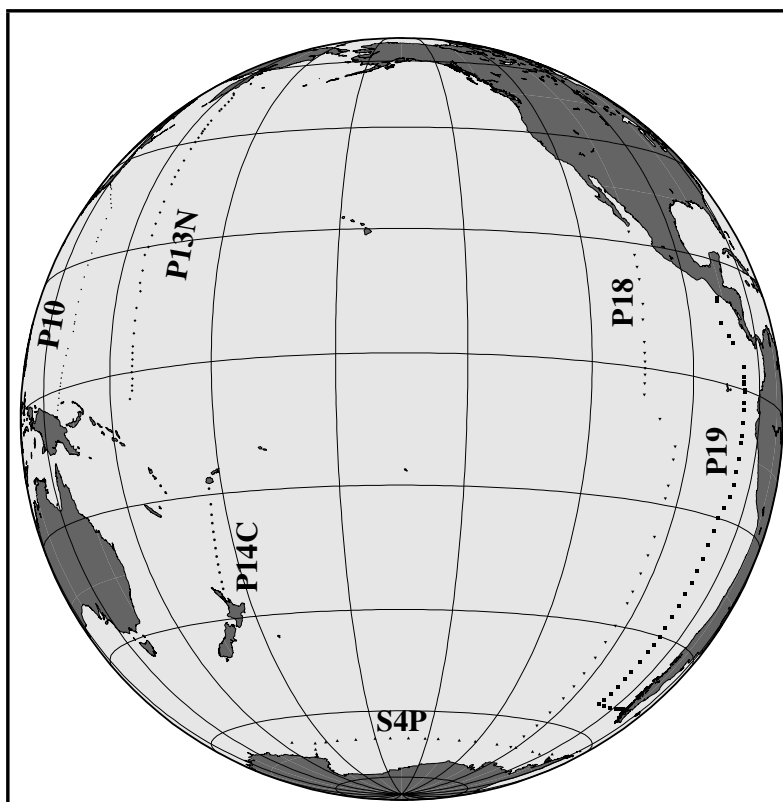


Figure 1 Station locations for the 6 WOCE radiocarbon sections reported. P10 aboard *R/V Thomas G. Thompson*, P14C and P19 aboard *R/V Knorr* were NSF cruises; P13N and P18 were NOAA cruises aboard the *R/V John Vickers* and *R/V Discoverer*, respectively; and S4P was a joint Russian/U.S. cruise aboard *R/V Akademik Ioffe*.

DISCUSSION

A complete description of the properties and distribution of ^{14}C in the Pacific Ocean is well beyond the scope of this paper and will be discussed elsewhere. Here we discuss *average* properties. The discussion is organized first by plot type rather than ocean regime. Inherent to the discussion is the assumption that the available data set is approximately uniformly distributed both spatially and with respect to property gradients. In other words, we assume that the averaging methods used result in an unbiased estimate of whatever quantity is estimated. Strictly speaking, this may not be true: features such as boundary currents are probably under represented; in the upper water column a seasonal bias may exist because most of the sampling was carried out other than in winter; and the eastern Pacific was more heavily sampled than the western Pacific. For most estimates the resulting bias is believed to be relatively unimportant, however, care should be exercised when comparing WOCE results to previous sampling programs (see Keller et al. 2001 for one example). Throughout the text, the term “standard error” (sometimes referred to as “standard deviation of the mean”) signifies the uncertainty associated with an estimated mean quantity, is calculated by dividing the standard deviation by the square root of the number of results, and is symbolized with σ_m .

Throughout the text depth and pressure are used synonymously. For WOCE data sets depth was calculated from measured pressure. For any given sample level, pressure is numerically larger than depth by approximately 2%. Blind substitution of the two parameters could lead to a small systematic bias, however, this difference is comparable to or less than the accuracy of the value, especially for the large volume samples.

PROFILES

The simplest and most traditional way to describe the Pacific Ocean ^{14}C distribution is with vertical profiles. Figure 2 shows three profiles representing the latitudinal zones:

- Southern Ocean (SO=green, span=0.2, n=2062) = Antarctic coast north to 45°S
- South Pacific basin (SB=red, span=0.1, n=3122) = 45°S to the Equator
- North Pacific basin (NB=black, span=0.1, n=3509) = Equator to ~55°N specifically excluding the area north of the Aleutian Islands.

For each profile, the continuous smooth line was derived using a one-dimensional loess fit (Cleveland and Devlin 1988; Cleveland and Grosse 1991; Chambers and Hastie 1991) to all of the data in the region. Loess is a local-regression technique. The span is the fraction of data used for each local regression. Span was increased for the Southern Ocean to derive a fit with smoothness comparable to the main basin fits. A Gaussian error distribution was assumed for each fit.

The small points and horizontal hash marks are the average and standard error derived by segregating the results into 100-m-depth bins. The standard errors for the deepest bins are substantially larger than for the rest of the water column due to the small number of results. The two techniques (loess and binning) produce identical results except for a very few points in the deepest waters. Since the error bars are $\pm 1 \sigma_m$ this level of difference is expected. The fact that the differences always occur in the deepest waters also reflects the bias that might be expected given what is known about the thermohaline circulation in the Pacific (for a recent discussion see Toggweiler and Key 2001). For all three profiles $\Delta^{14}\text{C}$ (Stuiver and Polach 1977; Stuiver 1980) is maximum at the surface and decreases with depth to a minimum at 2300–2800 m. In both the North and South Pacific basins, $\Delta^{14}\text{C}$ gradually increases with depth below the minimum zone. In the Southern Ocean (SO),

the minimum is reached around 2300 m, and from there to the bottom $\Delta^{14}\text{C}$ is extremely constant having an average of $-164.7 \pm 0.6\text{‰}$ ($n=360$; $z \geq 2300$ m).

The SO surface $\Delta^{14}\text{C}$ is significantly lower than either of the main basins. This reflects the strong vertical mixing and advection in that region. The average South Pacific basin (SB) surface value is slightly *higher* than for the North Pacific basin (NB). This result was unexpected since most atmospheric nuclear weapons testing was in the northern hemisphere. During the 1960s and 1970s, the northern hemisphere surface ocean and atmosphere were significantly higher than the southern hemisphere (see Key 2001 for a recent review and Östlund and Stuiver 1980 for GEOSECS data). The difference here is actually a bias caused by the choice of the southern boundary of the SB at 45°S . This conclusion is based on Figure 3, which shows the actual surface data plotted against the absolute value of the latitude using the same color scheme as Figure 2. If the SB surface water $\Delta^{14}\text{C}$ were 20‰ higher than the NB (Table 2), it would be easily visible, and that is not the case. The data included in Figure 3 were restricted to the surface 100 meters to be exactly comparable to the top bin in Figure 2. Limiting the data to the upper 25 m would not change the conclusion, but would reduce the number or “fliers” that fall below the general trend in Figure 3 and are clearly from below the mixed layer. If the $\Delta^{14}\text{C}$ is normalized to a constant salinity to minimize evaporation/precipitation differences, then the NB and SB data aggregate even closer than shown in Figure 3. Similar plots of salinity normalized TCO_2 are also symmetric about the equator for latitudes less than 45° , so the ^{14}C symmetry would be maintained if the values had been expressed in molar units rather than permil.

In Figure 2, $\Delta^{14}\text{C}$ decreases from south to north near the seafloor and in the minimum zone. This summary is correct, however, as with the surface water, the near bottom average is influenced by the selection of the SB southern boundary. Figure 4 shows the $\Delta^{14}\text{C}$ trends with latitude for the minimum (A) and near bottom (B) zones. For this figure the definition of “near bottom” was expanded to depths >4500 m to improve the statistics, however, the trend is essentially unchanged. For near bottom waters, there is a fair amount of scatter in the data, however, the trend with latitude shows no strong deviation from linearity ($R^2=0.79$; residual standard error of fit = 10.9‰). The least-squares fit indicates a gradient of 0.59‰ degree^{-1} , implying an average northward velocity for the bottom water of $4.8 \times 10^{-4}\text{m sec}^{-1}$. This calculation is greatly simplified, however, the linearity in Figure 4B implies that the complicating factors (principally particulate input) do not significantly change the result.

For the minimum zone waters (Figure 4A), $\Delta^{14}\text{C}$ decreases monotonically from south to north, but the gradient is not uniform. Based on other evidence we believe that the general long-term mean flow in the minimum zone (North Pacific Deep Water) is from north to south. In the absence of mixing, based on the data in Figure 4A, one would conclude the opposite. $\Delta^{14}\text{C}$ in Pacific deep waters must be significantly influenced by upwelling, downwelling, and mixing with younger (higher $\Delta^{14}\text{C}$) southern waters. In Figure 4, the minimum zone was defined in terms of a depth range. Had the definition been a potential or neutral density zone, the gradient with latitude south of $\sim 40^\circ\text{S}$ would change, however, the general picture would not. Although the signal is rather weak in this figure, it is noted that the very lowest $\Delta^{14}\text{C}$ values in the minimum zone occur at $30^\circ\text{--}40^\circ\text{N}$ rather than at the northern boundary (i.e. adjacent to the Aleutian Islands). Very close examination of the $\Delta^{14}\text{C}$ data in maps and sections shows that the extreme NB deep and abyssal waters are ventilated from the west adjacent to the island arc. This is contrary to what one might have expected from GEOSECS sections, however it supports results from detailed hydrographic studies (Warren and Owens 1988). The southward displacement of the minimum was first noted by Stuiver et al. (1983). The averages for the depth and latitude zones discussed are summarized in Table 2.

Table 2 $\Delta^{14}\text{C}$ statistics for Pacific zones: WOCE data

| | Surface 0–100 m | | | Minimum 2300–2500 m | | | Bottom >5000 m | | |
|----------------|--------------------|------------|-----|------------------------|------------|----|-------------------|------------|----|
| | Ave. | σ_m | n | Ave. | σ_m | n | Ave. | σ_m | n |
| SO (75°S–45°S) | –34 | 4 | 222 | –167 | 2 | 41 | –161 | 3 | 6 |
| SB (45°S–Eq.) | 96 | 1 | 341 | –213 | 2 | 72 | –169 | 2 | 52 |
| NB (Eq.–55°N) | 75 | 2 | 464 | –239 | 1 | 45 | –206 | 2 | 59 |

Table 3 shows the same summary statistics, for the GEOSECS data (Östlund and Stuiver 1980) which were collected in 1973–1974. Comparison shows identical results for bottom waters. If any bomb-produced $\Delta^{14}\text{C}$ has been transported into Pacific bottom waters (as it must have been based on chlorofluorocarbon data) then the signal is totally washed out in this summary. In the minimum zone, significant change appears to have occurred, however, this is thought unlikely and we attribute the apparent change to bias in the GEOSECS data resulting from the limited sample size. The changes seen in surface waters between GEOSECS and WOCE is, however, real and reflects both incorporation of atmospheric bomb $\Delta^{14}\text{C}$ into the surface ocean over time as well as transport of the bomb signal down into the thermocline. The change for the three latitude zones is (WOCE-GEOSECS): NB = -47 ± 7 ; SB = -15 ± 8 ; SO = -41 ± 24 . ^{14}C decay over the 20 years separating the expeditions is negligible. The fact that surface ocean values significantly decreased for each of the zones demonstrates that, for this time period, processes which incorporate surface ^{14}C into the ocean interior dominated transfer of atmospheric bomb-produced $\Delta^{14}\text{C}$ into the surface ocean. The fact that the NB decrease is significantly larger than the SB decrease could imply more active mixing processes, more stripping of surface ocean $\Delta^{14}\text{C}$ into sinking particulate matter, or several other possible interpretations that are not addressed here.

 Table 3 $\Delta^{14}\text{C}$ statistics for Pacific zones: GEOSECS data

| | Surface 0–100 m | | | Minimum 2300–2500 m | | | Bottom >5000 m | | |
|----------------|--------------------|------------|----|------------------------|------------|---|-------------------|------------|----|
| | Ave. | σ_m | n | Ave. | σ_m | n | Ave. | σ_m | n |
| SO (75°S–45°S) | 7 | 24 | 7 | –158 | 2 | 4 | –165 | 2 | 3 |
| SB (45°S–Eq.) | 111 | 8 | 24 | –218 | 4 | 6 | –168 | 2 | 15 |
| NB (Eq.–55°N) | 122 | 7 | 52 | –246 | 2 | 9 | –204 | 2 | 35 |

MEAN SECTIONS

Presentation and description of individual WOCE ^{14}C sections is not done here. Figure 5 shows an average south-to-north section broken into upper (A) and lower (B) depth regions. The upper region is plotted against potential density (σ_θ) and covers the top 1500 decibars (dB) while the lower region is plotted against potential density relative to 3000 dB pressure (σ_3) and covers from 1500 dB to the bottom. The sections were prepared by first binning the data into the two depth zones, then gridding as if all the samples had been taken at the same longitude. A two dimensional loess function (A, $n=5753$, $\text{span} = 0.02$; B, $n=2149$, $\text{span}=0.025$) was used to grid the data. The loess gridding technique is not as common as the objective methods described by Roemmich (1983) or LeTraon (1990), but avoids numerical difficulties and produces a reliable smoothed estimate of the field. In each region of Figure 5, the colors and contour lines are redundant.

Most of the upper water column (Figure 5A) has been contaminated by the input of ^{14}C from atmospheric nuclear weapons testing in the 1960s (Broecker et al. 1985, 1995; Rubin and Key 2002). At the time of the GEOSECS measurements (1973–1974), this contamination resulted in near-surface waters always having the highest $\Delta^{14}\text{C}$ values (Östlund and Stuiver 1980). Twenty years later, a significant fraction of the bomb component has been transported below the surface by mixing and advection.

The $\Delta^{14}\text{C} = -100\text{‰}$ contour can be taken as the approximate penetration depth of the bomb component (Key 1998, 2001). Using this guideline, the bomb component has penetrated to somewhat greater density levels in the South Pacific than in the North Pacific. This “enhanced” penetration is due to the fact that deeper isopycnals outcrop in the south thus providing a direct ventilation pathway. The fact that the South Pacific is directly connected to the Southern Ocean circulation system is one of the important reasons for the asymmetry about the Equator. Close examination (plus a bit of mental averaging) shows that for $\sigma_\theta \leq 25.6$ $\Delta^{14}\text{C}$ values along isopycnals are approximately the same for the northern and southern subtropical gyres (latitudes 15 to 35). Below that, $\Delta^{14}\text{C}$ is lower in the northern basin for all isopycnals down to at least $\sigma_\theta=27.2$.

Very prominent in the meridional section (Figure 5A) is the fact that $\Delta^{14}\text{C}$ levels are significantly lower near the Equator than at mid latitudes. The difference is due to upwelling of deeper waters with lower bomb contamination near the Equator. This process was described in detail by Toggweiler et al. (1991) based on GEOSECS data and has not yet been reinvestigated in detail with the WOCE data, however, a cursory investigation has not revealed any major discrepancies.

The average west to east (zonal) ^{14}C distribution in the thermocline is more uniform than the latitudinal variation. Figure 6 shows average thermocline sections for the subtropical northern (A, $n=541$; span=0.15) and southern (B, $n=850$; span=0.15) basins. Since U.S. WOCE included only one zonal section in the Pacific (P6) these figures were prepared in a slightly different manner than those in Figure 5. The data for each section was limited to latitudes between 15 and 35, depths between 50 and 1000 m and potential density greater than $\sigma_\theta=25.0$. These cuts were made to reduce the impacts of the sample distribution and seasonal effects on local near surface density. A significantly larger span value was used for the loess function during gridding to help bridge the data gap between sections. These sections are useful to demonstrate the zonal uniformity of $\Delta^{14}\text{C}$ relative to the meridional distribution and to show that the average zonal distribution for the upper thermocline is bowl shaped. Otherwise, extreme care must be taken in any further interpretation. For example, the $\sigma_\theta=26.0$ surface outcrops in the northwest Pacific and across the South Pacific; $\Delta^{14}\text{C}$ values on the $\sigma_\theta=26.0$ surface range from approximately 100‰ to 150‰ in the NB and from approximately 110‰ to 170‰ in the SB. Additionally, on many density surfaces in the NB thermocline $\Delta^{14}\text{C}$ isopleths trend from northeast to southwest. In this case, the averaging process totally hides some features and distorts others.

In the deep meridional density section (Figure 5B) the most prominent feature is the south to north $\Delta^{14}\text{C}$ decrease discussed with respect to Figure 4. The zonal uniformity of $\Delta^{14}\text{C}$ in the SO and the southward displacement of the absolute minimum ($\sim 40^\circ\text{N}$; $\sigma_3=41.35$) from the northern boundary are also very evident. The northward flow of Circumpolar Deep Water is implied by the shape of the contours which are deeper than $\sigma_3=41.45$ and north of $\sim 40^\circ\text{S}$. The origin of the partially pinched “blob” of relatively low activity water between latitudes 40°S and 30°S and $41.25 < \sigma_3 < 41.47$ has not yet been investigated, but the northern boundary is approximately co-located with major topographic features (Sala Y Gomez Ridge, Easter Fracture Zone), which span most of the basin at that latitude.

PROPERTY-PROPERTY VARIATIONS

Property-property plots are one of the oldest and most common visual methods to investigate the distribution of a parameter relative to another. Generally when the data, or part of the data in a property-property plot forms a straight line, the linear region is interpreted as mixing line between two end members. The size of the WOCE Pacific $\Delta^{14}\text{C}$ data set is sufficiently large that a single plot for each parameter pair using all the data would mask significant features, particularly in deep and bottom waters. To avoid this a variation of the standard property-property plot was developed. The data set is segregated into the three previously defined basins (Southern Ocean = SO = south of 45°S ; Southern Basin = SB = 45°S to Equator; Northern Basin = NB = north of Equator) and further divided into 4 depth zones (Surface = 0–500 m; Intermediate = 500–1500 m; Deep = 1500–2600 m; Bottom = >2600 m). The depth zone division was arbitrary except that the deep limit of the Deep zone was chosen to include the $\Delta^{14}\text{C}$ minimum.

In each of Figures 7–14 the data plots are grouped into 3 rows and 2 columns. The top-left subplot is the standard property-property plot and includes all of the data with the four depth zones indicated by color: Surface = black, Intermediate = blue, Deep = red, and Bottom = green. Moving down the first column, the data shown in the second and third rows is segregated by depth zone. Moving from the first to the second column along any of the rows, the data is segregated by basin. The first two rows are scaled the same, but in the third row—deep and bottom waters—both the x and y scales are significantly expanded in order to demonstrate whatever variability exists in the two plotted properties. In each of the subdivisions the basin is identified by labels in the light tan title bar and depth zone by the label in the light blue-green title bar. In each of the subplots in the second column, south is always to the left and north to the right. As in the top-left subplot, data point color always indicates depth zone. ^{14}C is always plotted on the y axis, and the same two y scales are used in all of the property-property figures (except for Figure 12, where ^{14}C age in kilo years is substituted for $\Delta^{14}\text{C}$).

At first, these figures can be a bit difficult to absorb, however, they can contain a lot of information. When examining the figures, look up and/or left to get a summary picture and right and/or down to see the detail. Change in any depth zone from south to north is obtained by scanning the small subplots in any row of the second column from left to right. For example, if one examines the upper half of the bottom row from Figure 7 ($\Delta^{14}\text{C}$ vs. potential temperature for the Deep water zone), the subplot in the left column shows the distribution to have a shape similar to the number “7”. Moving right to the second column, one sees that the top of the “7” is made up solely of water from the SO, while the lower part of the “7” is composed of waters from both the SB and NB. Scanning from left to right across the subplots in the second column, the mass of points moves from the upper and left portions of the plot region to the lower right. That is, NB Deep water is warmer and older (lower $\Delta^{14}\text{C}$) than SB Deep water, which is in turn warmer and older than SO Deep water. The SO Deep water subplot indicates a relatively large range in potential temperature compared to a rather narrow range of $\Delta^{14}\text{C}$. The same is true for the SO Bottom water. These two subplots echo information that was also evident for these waters as shown earlier in Figure 2 (green depth profile) and Figure 5B (southern end of section). Comparing the Deep water to the Bottom water (upper and lower portion of the bottom row), one can see from the first column that the property relationship is similar for the two depth zones, but there is significantly more scatter (range) in Deep water than in Bottom water. Details of the similarities and differences are magnified in the second column subplots. The scale increase for Deep and Bottom water was necessary to see any of the property details in those depth zones. Unfortunately, the scale change precludes easy vertical comparison through the water column. To accomplish this, visual reference back to the first row of summary plots is necessary.

Figures are shown for potential temperature (Figure 7), salinity (Figure 8), nitrate (Figure 9), total inorganic carbon (Figure 10), CFC-11 partial pressure (Figure 11), ^{14}C age vs. apparent oxygen utilization (Figure 12), silicate (Figure 13), and potential alkalinity (Figure 14). The first three were included for completeness and historical reasons and are not discussed further. Each of the remaining plots has significance to a specific research question and is briefly discussed below.

$\Delta^{14}\text{C}$ vs. Total Inorganic Carbon (Figure 10)

Most oceanic ^{14}C exists as part of the dissolved inorganic carbon pool. It is not surprising, therefore, that these two parameters show significant correlation. The very large depth range over which a near-linear correlation exists is unusual. This is one case a linear relationship cannot be interpreted as mixing between two end members. This fact is best demonstrated by the subplots for combined intermediate water (B1-lower) and SB Intermediate water (B2-lower center). Both show different slopes for data above and below the property extreme (TCO_2 maximum ~ 2400 ; $\Delta^{14}\text{C}$ minimum ~ -230) point. Moving from south to north in Deep and Bottom waters (C2, left to right) the TCO_2 increase and $\Delta^{14}\text{C}$ decrease are evident. Toggweiler and Samuels (1993) have discussed in detail the implications of the North Pacific–Antarctic $\Delta^{14}\text{C}$ difference relative to the study of global thermohaline circulation and upwelling. Examination of the deep and bottom water subplots (C1 and C2) shows a distinct curvature in the relationship. This downward curvature is what would be expected from two end member mixing combined with ^{14}C decay. The degree of curvature is decreased by the dissolution of carbonate particulate matter. For years, numerous authors have attempted to use this relationship to study deep and abyssal water movement in the deep Indian and Pacific or to study carbonate dissolution (Bien et al. 1965; Craig 1969, 1971; Suess and Goldberg 1971, etc.) and in various modeling studies (e.g. Fiadeiro 1982; Toggweiler et al. 1989). These studies were always hampered by a severe lack of data. Data scarcity is no longer the limiting factor and these investigations will be resumed.

$\Delta^{14}\text{C}$ vs. pCFC-11 (Figure 11)

Over the past decade, chlorofluorocarbons have become the most widely used transient tracer for the investigation of thermocline ventilation processes (e.g. Fine 1993; Warner et al. 1996). Other important applications include separation of natural and anthropogenic CO_2 (Gruber et al. 1996; Sabine et al. 1999), separation of natural and bomb-produced $\Delta^{14}\text{C}$ (Leboucher et al. 1999) and formation rates and flow paths for newly formed bottom waters (Schlosser et al. 1991; Orsi et al. 1999; Smetthie and Fine 2001). ^{14}C , and estimates of bomb-produced ^{14}C have been used for similar purposes. Tsunogai et al. (1995), Sonnerup et al. (1999), and Ortiz et al. (2000) used $\Delta^{14}\text{C}$ either directly or indirectly to investigate North Pacific thermocline ventilation. Revelle and Suess (1957), Nydal (1968), Nydal and Gislefoss (1996), Broecker and Peng (1974), Broecker et al. (1980) and many others have used ^{14}C or bomb-produced ^{14}C to investigate air-sea exchange and as a proxy for anthropogenic CO_2 . Östlund and Rooth (1990), Schlosser et al. (1994) and others have used ^{14}C as a tracer to study bottom-water formation and spreading. Given the common applications and that the atmosphere is the source for both, it is not surprising that $\Delta^{14}\text{C}$ and CFC-11 show significant correlation in spite of the fact that the atmospheric time histories for the two tracers are very different (Stuiver et al. 1998; Walker et al. 2000) and the air-sea equilibration times are very different. In the ocean the correlation is dominated by bomb-produced $\Delta^{14}\text{C}$.

In Figure 11, the partial pressure of CFC-11 is plotted rather than concentration to minimize the influence of temperature (chlorofluorocarbon solubility is highly temperature dependent; Warner et al. 1988). One of the more interesting features is the segregation into two distinct data groupings seen in the SO upper-water column (A2 left and B2 left-upper and lower). The data in the upper grouping

(A2 left) have a reasonable linear correlation with a slope of $\sim 40\text{‰}/\text{pmol}$. (note unit change here) and are all from waters between 56°S and 45°S . The lower grouping (south of 56°S) is less linear, has more scatter, and has a slope of $\sim 10\text{‰}/\text{pmol}$. The separation latitude (56°S) is the approximate location of the Antarctic Convergence. Shallow water south of the convergence is generally called Antarctic Surface Water and is additionally distinguishable by having elevated silicate concentration. Between $\sim 56^\circ\text{S}$ and $\sim 45^\circ\text{S}$ is the Subantarctic Zone, which is bounded on the north by the Subtropical Convergence. The Subantarctic Zone is the region in which Antarctic Intermediate Water is formed. The fact that the $\Delta^{14}\text{C}$ -CFC-11 slope is significantly higher in the Subantarctic Zone than in the Antarctic Zone implies a much longer residence time for waters in the former. The distinct separation between the two water masses remains clearly evident if estimated bomb-produced ^{14}C is substituted for measured $\Delta^{14}\text{C}$ or if CFC-11 concentration is substituted for pCFC-11. To our knowledge, this is the first time that this feature has been noted. If these data can be used to derive reasonably precise residence times for circumpolar surface waters, the results should prove valuable constraints on numerical ocean models and could significantly influence methods recently used to estimate oceanic anthropogenic CO_2 (e.g. Gruber et al. 1998; Sabine et al. 1999). It is worth noting that, if total inorganic carbon is plotted against CFC-11 for these same waters, the Antarctic Zone data fall above the Subantarctic Zone data—that is, the relative position of the two data groups is reversed. For this property pair, upwelling of deep water having elevated total CO_2 in the Antarctic Zone easily dominates atmospheric input of the anthropogenic signal.

In subplot C2 in the SO, both deep and bottom water have a few samples with non-zero pCFC-11 values. These samples have increasing $\Delta^{14}\text{C}$ with increasing pCFC-11 although the signal is rather weak due to the small number of results. Almost all of these samples were collected on section S4P when the ship approached the Antarctic slope and are indicative of bottom water formation in the Ross Sea vicinity. The penetration of bomb-produced $\Delta^{14}\text{C}$ has been described for the deep and abyssal waters of the North Atlantic (Östlund and Rooth 1990) and for bottom waters in the Weddell Sea (Schlosser et al. 1991, 1994), but this is the first reasonably conclusive evidence for deep penetration anywhere in the Pacific. Orsi et al. (1999) recently reviewed Antarctic Bottom Water production using chlorofluorocarbons as one of the primary tracers.

^{14}C Age vs. Apparent Oxygen Utilization (Figure 12)

Apparent oxygen utilization (AOU) is the difference between measured oxygen concentration of a sample and the saturation concentration that sample would have had at the ocean surface assuming no temperature change or mixing. It is an estimate of the oxygen used in various biological processes. For this figure $\Delta^{14}\text{C}$ values have been converted to approximate ^{14}C age using Eq. 1. These transformations help eliminate the temperature dependence of oxygen solubility and allow a crude, but direct, estimate of the oxygen utilization rate (OUR) from the plots. Negative ^{14}C age indicates bomb ^{14}C contamination and $\text{AOU} < 0$ indicates supersaturation at the ocean surface. Neither are of particular interest here. The general trend of all data (A1) shows the expected increase in AOU with increasing age. The upper ocean processes are too complex for this discussion. Here we note only that for any given ^{14}C age, northern upper water column samples tend to have significantly higher AOU than southern and that the SO source water data are consistent with previous comments regarding CFC-11 and residence times for different surface waters.

$$^{14}\text{C age} = -8033 \log\left(1 + \frac{\Delta^{14}\text{C}}{1000}\right) \quad (1)$$

Broecker et al. (1991) demonstrated the application of ^{14}C decay to AOU for the deep Atlantic Ocean where the circulation is more complicated than in the deep and abyssal Pacific. Here we make only the most simple interpretation. If for the deep and abyssal Pacific one assumes a single water source (Circumpolar Deep Water), that ^{14}C changes only by decay and that OUR is constant then ^{14}C age should plot as a linear function of AOU. Subplots C1 and C2 show that these approximations are at least reasonably met for the entire deep Pacific except for N.B. Deep Water (C2 right-upper). The regression line shown in each plot (Eq. 2; $n=1187$; $r^2=0.78$; residual standard error = 119) was calculated using all data deeper than 1500 m and having $\text{AOU} < 200 \mu\text{M kg}^{-1}$ (i.e. excluding NB deep water). The regression slope corresponds to an OUR of $0.093 \mu\text{M kg}^{-1} \text{ yr}^{-1}$, which agrees with previous estimates. Clearly, the NB Deep Water data do not fit the trend found elsewhere. Rather, AOU continues to increase while the ^{14}C age remains relatively constant. One can imagine various scenarios for such a relationship, however the most likely is that ^{14}C decay is approximately balanced by input via dissolution of sinking particulate carbonate.

$$^{14}\text{C age (years)} = -68 \pm 27 + 10.72 \pm 0.16 \cdot \text{AOU}(\text{micromole/kg}) \quad (2)$$

$\Delta^{14}\text{C}$ vs. Silicate (Figure 13)

Broecker et al. (1995) reported a method using GEOSECS data to separate natural and bomb-produced $\Delta^{14}\text{C}$ in the ocean based on the strong linear correlation they found between natural $\Delta^{14}\text{C}$ and silicate concentration for the global ocean excluding high latitude (particularly high southern latitude) waters. The silicate method was a significant improvement on an earlier technique (Broecker et al. 1985) because it gave an estimate of the shape of the natural $\Delta^{14}\text{C}$ profile with depth, in waters contaminated by bomb-produced $\Delta^{14}\text{C}$. They based natural surface water values on pre-bomb measurements. They also noted that in high southern latitude waters that the correlation held only for waters with silicate concentrations less than $\sim 90 \mu\text{mol kg}^{-1}$. They used measured tritium concentration to determine the depth of bomb $\Delta^{14}\text{C}$ penetration. The regression they derived is given in Eq. 3 and reproduced in each Figure 13 subplot. With this method, for measurements in the SB and NB Surface and Intermediate Waters, the vertical distance above the regression line is assumed to be the bomb-produced $\Delta^{14}\text{C}$ component. For SO waters, the same would hold for samples in which the silicate was less than $90 \mu\text{mol kg}^{-1}$. They estimated the uncertainty in the estimated natural $\Delta^{14}\text{C}$ and bomb-produced $\Delta^{14}\text{C}$ to be approximately 10%.

$$\text{Natural } \Delta^{14}\text{C} = -70 - 1 \cdot \text{Silicate} \quad (3)$$

In general, this relationship was very robust for the GEOSECS data. Close examination does show, however, that in the Pacific for waters having only natural $\Delta^{14}\text{C}$, the GEOSECS data actually have the shape of a backward check mark. That is, waters above the $\Delta^{14}\text{C}$ minimum–silicate maximum have a different slope than waters below (Rubin and Key 2002). As the new WOCE data set became available discrepancies in the silicate relationship have been more clearly identified. A potential solution is briefly mentioned in the next section. Subplot A1 demonstrates that the silicate regression does pass through the mass of data from lower intermediate and deeper depths. The lack of fit is amplified in the subplots C1 and C2 particularly for SB Deep Water (recall that the regression was already known to not fit SO waters for silicate > 90 ; e.g. C2 left upper and lower).

The other really interesting feature in Figure 13 is that the NB Surface Water data falls into two distinct groupings (B2 right upper). For the samples which have silicate concentration greater than $20 \mu\text{mol/kg}$ all of the points in the lower group are from latitudes south of $\sim 20^\circ\text{N}$ while the upper group are from north of that latitude. The northern data grouping form a remarkably straight line

(latitude 20°N – 50°N ; depth $\leq 500\text{m}$; silicate $\geq 20 \mu\text{mol/kg}$; $n=642$; $r^2=0.92$) reminiscent of two end-member mixing. Further investigation shows the data to be consistent with isopycnal mixing between intermediate (and/or mode) waters forming in the Sea of Okhotsk and perhaps to a lesser extent in the Gulf of Alaska (high $\Delta^{14}\text{C}$ low silicate) with equatorial water masses (low $\Delta^{14}\text{C}$ high silicate). Clearly, the data are recording the invasion of bomb-produced $\Delta^{14}\text{C}$ into the thermocline of the main North Pacific gyre. Detailed comparison of estimated bomb-produced $\Delta^{14}\text{C}$ with CFC-11 on density surfaces in the thermocline supports this interpretation.

$\Delta^{14}\text{C}$ vs. Potential Alkalinity (Figure 14)

Potential alkalinity (Palk) was first defined by Brewer et al. (1975) in an attempt to account for changes in titration alkalinity of a water parcel with time due to proton transfer from redox reactions. Their definition included fluxes due to both nitrate and phosphate reactions. Effectively, potential alkalinity is titration alkalinity which has been corrected for the influence of biologically induced changes. Since the phosphate chemistry is not completely understood and is a small effect, the definition used here is simplified to Eq. 4 where TA is the measured titration alkalinity and NO_3^- is the measured nitrate concentration.

$$\text{Palk}_{35} = (\text{TA} + \text{NO}_3^-) \cdot 35 / \text{Salinity} \quad (4)$$

Rubin and Key (2002) suggest that potential alkalinity is a better covariable than silicate to separate bomb-produced and natural $\Delta^{14}\text{C}$. Like the silicate method, the potential alkalinity method was derived using the global GEOSECS data. The regression they derived is given in Eq. 5 and reproduced in each Figure 14 subplot. The benefits of this method were that it could be used at all latitudes, the data from all depths more closely approximated a single straight line, and the function generated reasonable estimates of pre-bomb surface water concentrations. The primary weak point was that alkalinity is measured with ^{14}C much less frequently than silicate. One additional benefit for WOCE era measurements was the existence of a certified reference material for alkalinity measurements (Dickson et al. 2001a, 2001b) while none exists for nutrient measurements. Both the Palk and the silicate separation methods are essentially empirical. In each case the strong correlation probably exists because the oceanic distribution of the input parameters is primarily controlled by large scale thermocline circulation with a secondary influence of vertical particulate flux and dissolution.

$$\text{Natural } \Delta^{14}\text{C} = -59.0 - 0.962(\text{Palk} - 2320) \quad (5)$$

With respect to bomb-produced $\Delta^{14}\text{C}$, interpretation of data in Figure 14 is exactly analogous to Figure 13. That is, the vertical separation of a datum above the regression line is the bomb contribution. Comparison of the C1 subplots from the two figures clearly demonstrates the improvement in fit by using Palk rather than silicate. The latitudinal separation of the bomb component by latitude into two distinct groupings for NB Surface Water discussed above is replicated (although somewhat less distinctly) in this figure (B2 upper right). The fact that SO waters for all depth ranges are fit by the regression is evident in subplot C2 (left upper and lower). Work is currently underway to complete this analysis for the WOCE data including calculation of bomb $\Delta^{14}\text{C}$ inventories.

CONCLUSIONS

The recently completed WOCE Pacific Ocean ^{14}C data set provides the first three-dimensional description for this important tracer of ocean processes. Here we have provided not only a listing of

the data, but an initial, very general picture of ^{14}C properties in the Pacific. Numerous new discoveries are briefly mentioned and will be addressed fully in future publications. All of the ^{14}C data from the U.S. portion of the Pacific WOCE survey are currently available on the internet at http://whpo.ucsd.edu/data/tables/onetime/1tim_pac.htm. In the future all data will be transferred for permanent archiving at the National Ocean Data Center. Gridded versions of this data set are available through the Global Ocean Data Analysis Program web site (<http://cdiac.esd.ornl.gov/oceans/glodap/index.html> under "Data Products"). In the near future a merged ascii version of the Pacific data will be available from this site as well.

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**APPENDIX 1:
Figures 2–14**

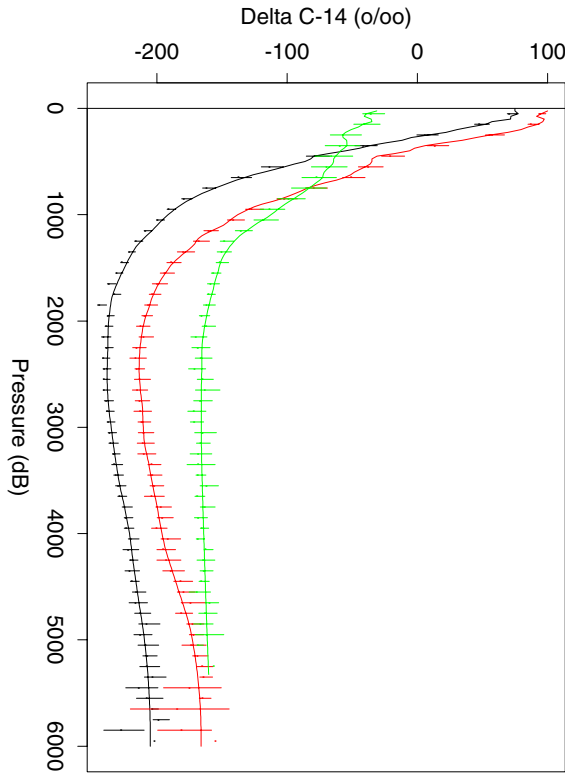


Figure 2 Mean $\Delta^{14}\text{C}$ profiles for the main Pacific zones (green = Southern Ocean; red = South Pacific Basin; black = North Pacific Basin) based on U.S. WOCE data set. See text for derivation of curves and error bars.

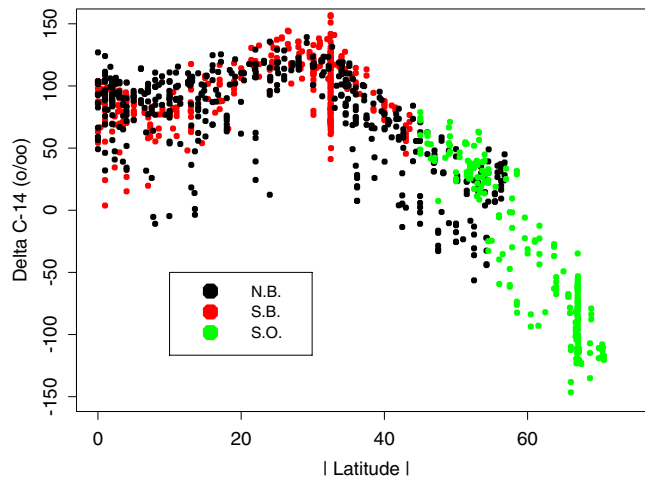


Figure 3 Surface (0–100 m) Pacific $\Delta^{14}\text{C}$ as a function of the absolute value of latitude. The color code and division of data is the same as in Figure 2 and Table 2. There appears to be no statistically significant difference between the NB and the SB over the latitude range common to both. The points that fall below the main trend simply indicate that the zone defined here as *surface* (0–100 m) sometimes extends into the upper edge of the thermocline.

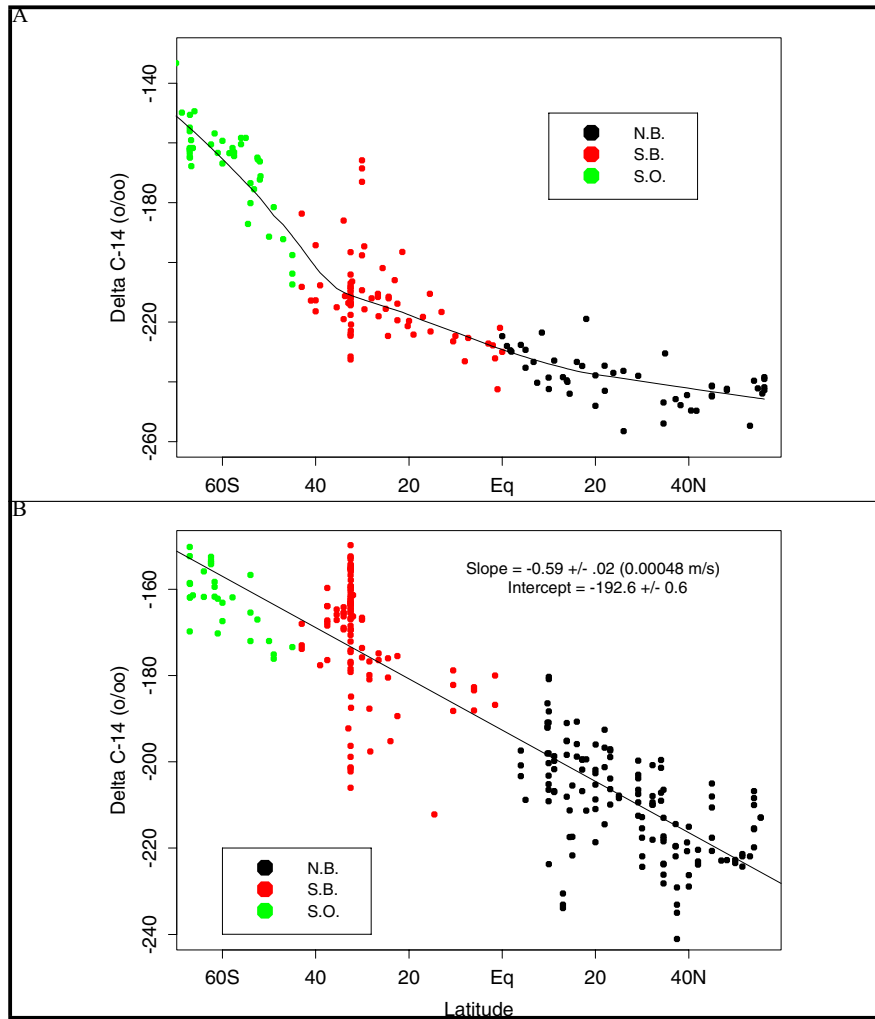


Figure 4 Distribution of radiocarbon with latitude for the minimum (A) zone in the Pacific here defined to be 2300–2500 m and (B) for the near bottom zone (depth >4500 m).

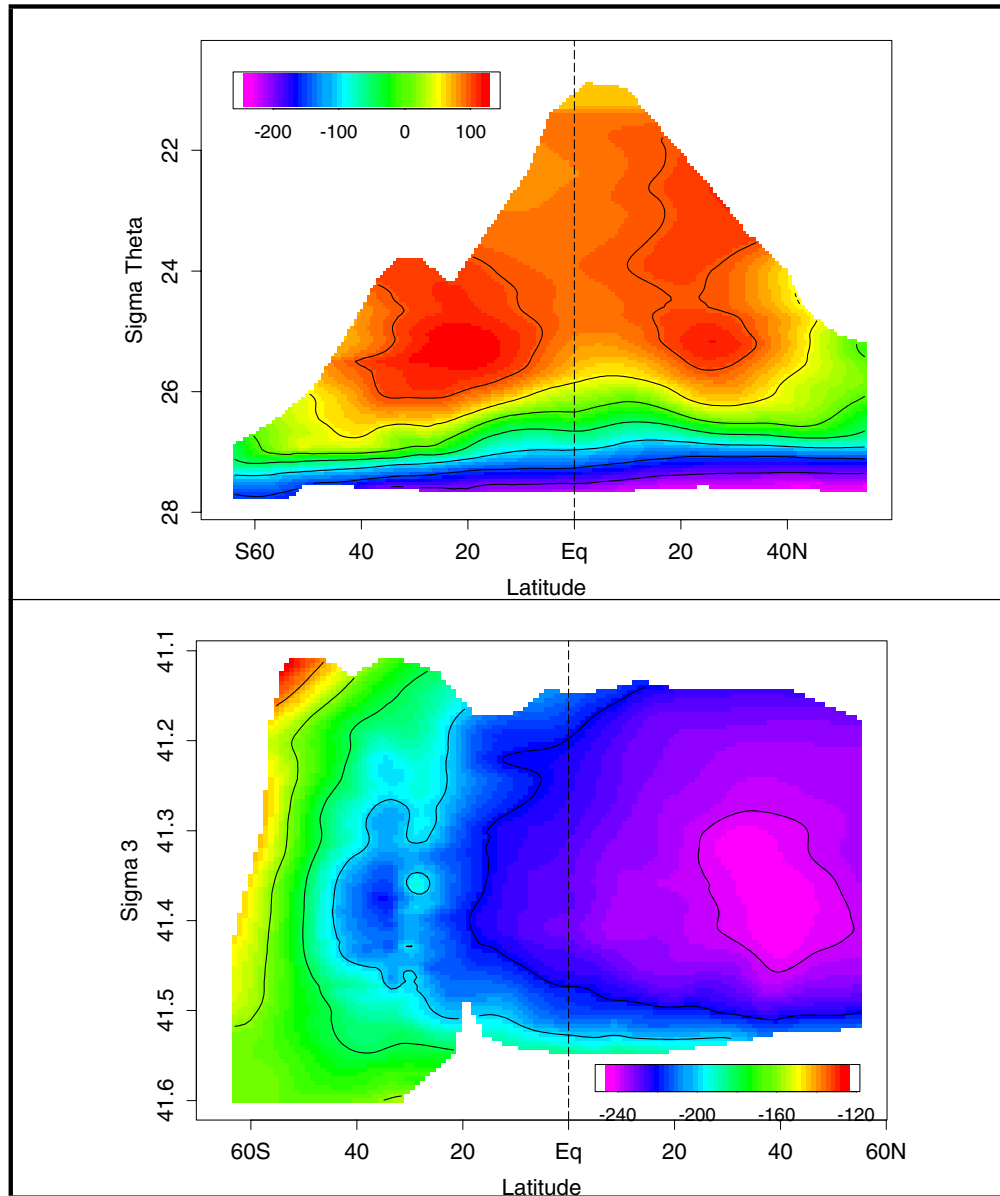


Figure 5 Mean zonal $\Delta^{14}\text{C}$ section for the Pacific. (A) includes the upper 1550 m and (B) from 1500 m to the sea floor. The contour interval is 50‰ in (A) and 20‰ in (B). Colors and contour lines carry redundant information.

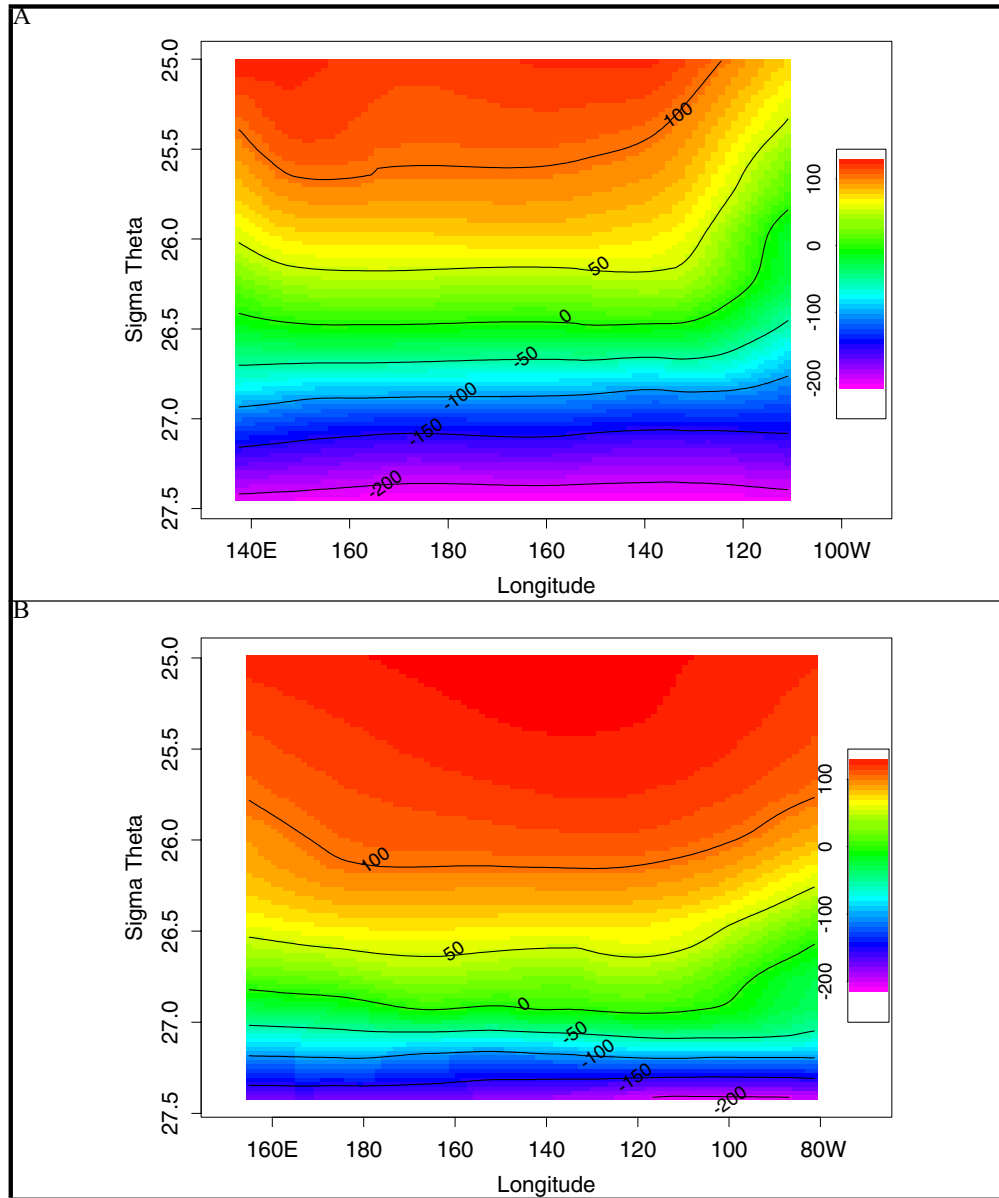


Figure 6 Mean west-to-east sections of radiocarbon in the northern (A) and southern (B) subtropical gyre (latitudes 15–35). Data were restricted to depths between 50 and 1000 m and potential density greater than 25.0. The color scale and contour lines are the same for both sections.

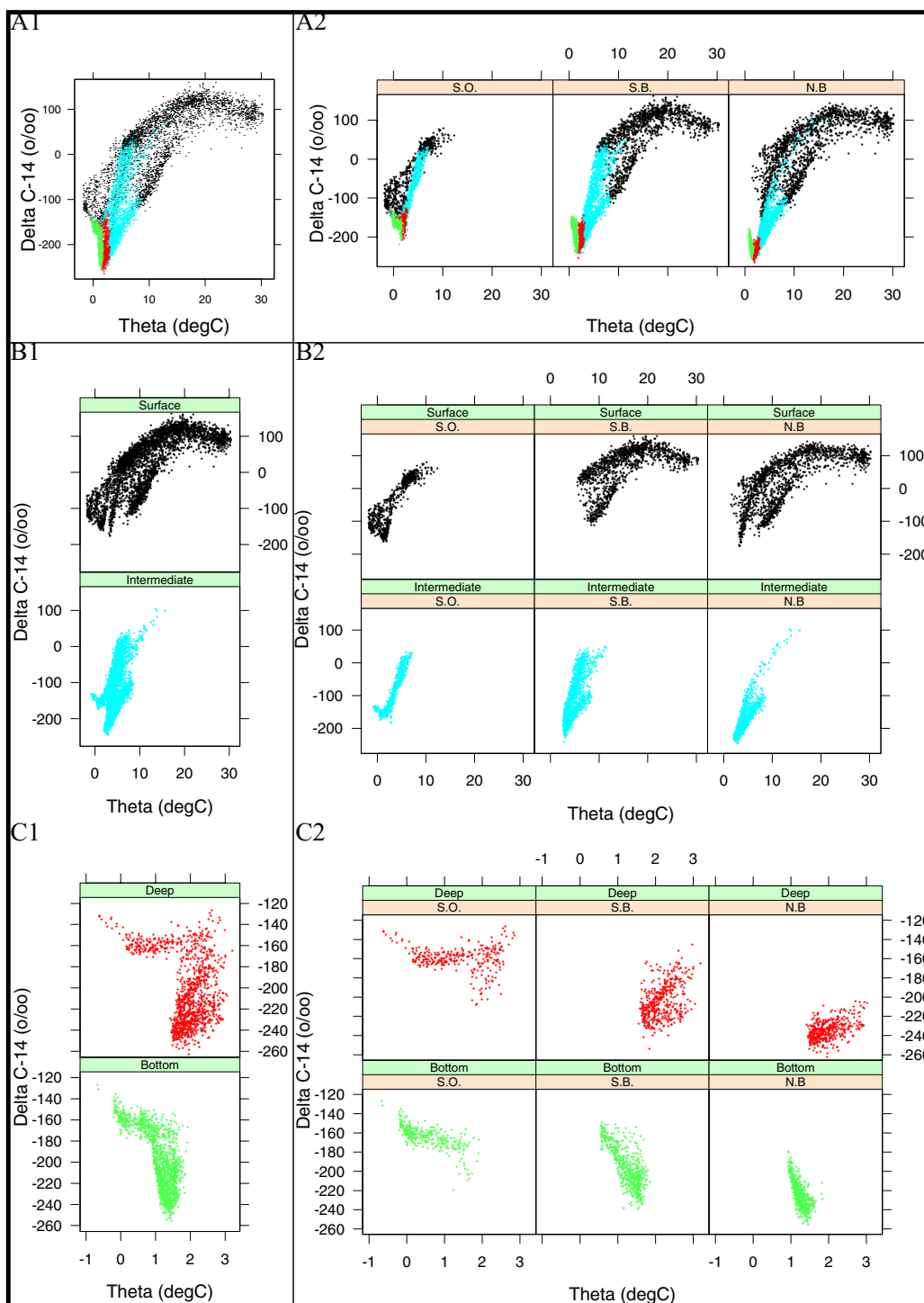


Figure 7 $\Delta^{14}\text{C}$ vs. potential temperature. Color indicates depth zone: Surface (0–500, black), intermediate (500–1500, blue), deep (1500–2600, red), and bottom (>2600, green). Region division is from Table 2.

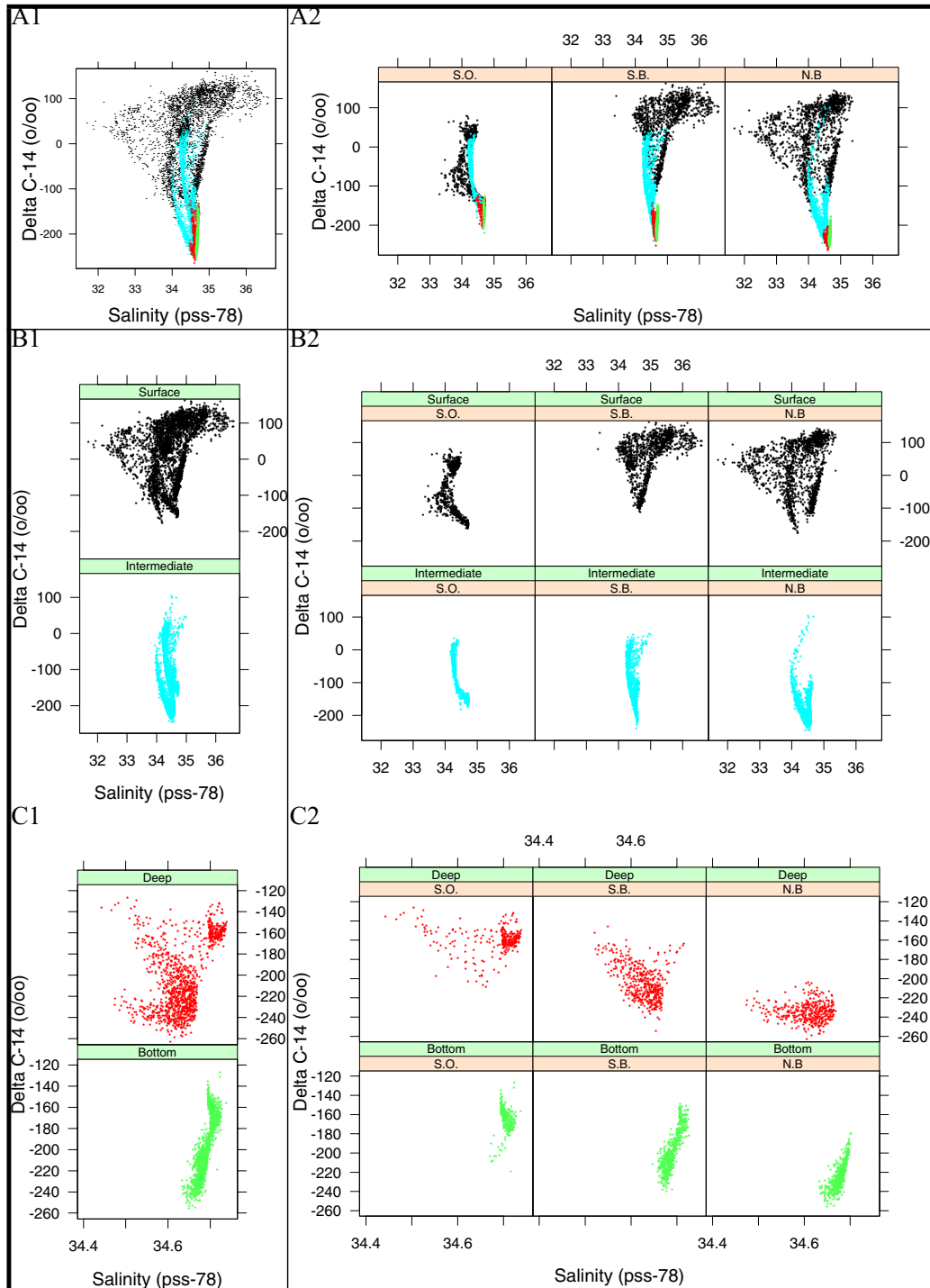


Figure 8 $\Delta^{14}\text{C}$ vs. salinity (relative to the practical salinity scale of 1978). See Figure 7 caption.

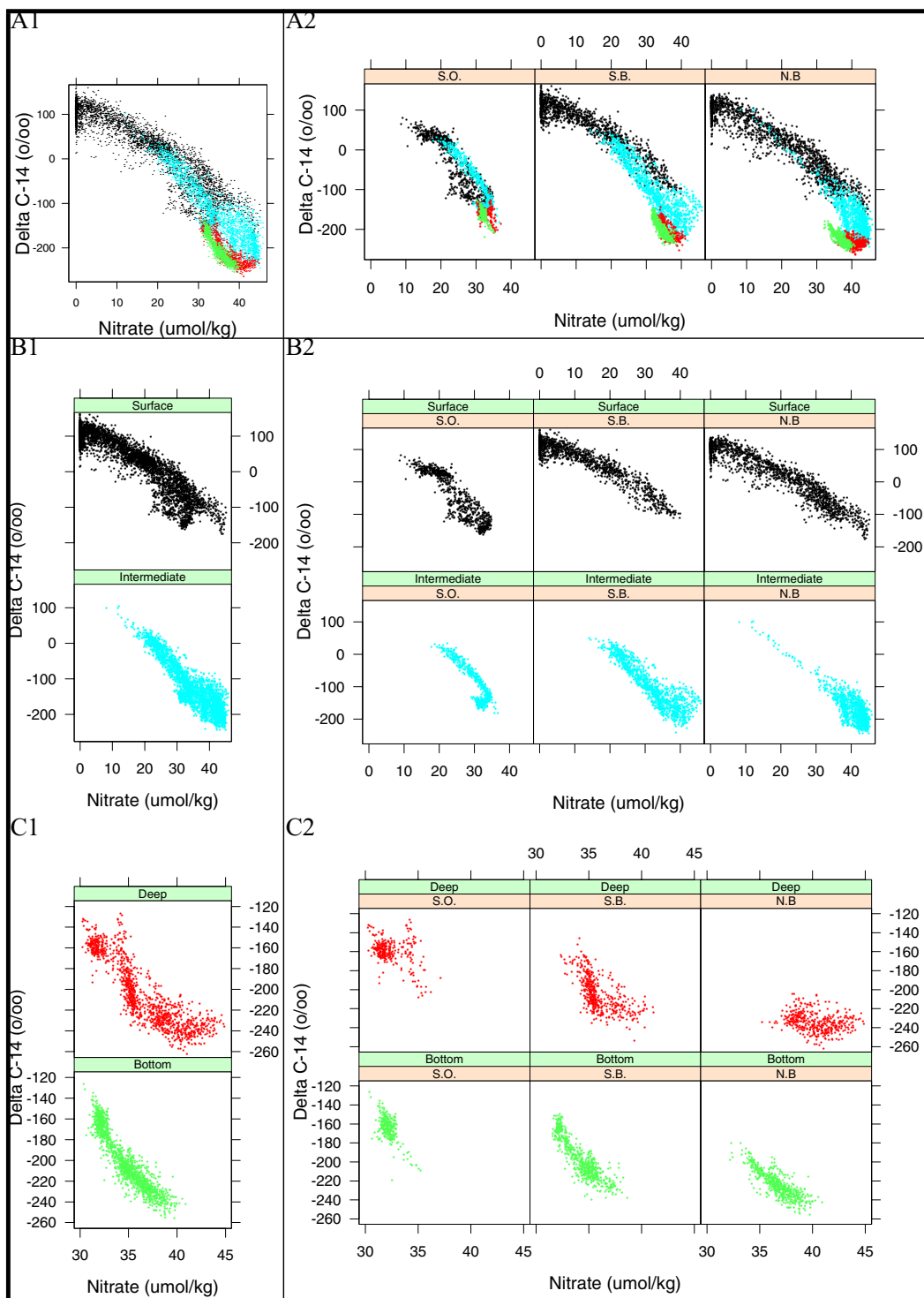


Figure 9 $\Delta^{14}\text{C}$ vs. nitrate. See Figure 7 caption.

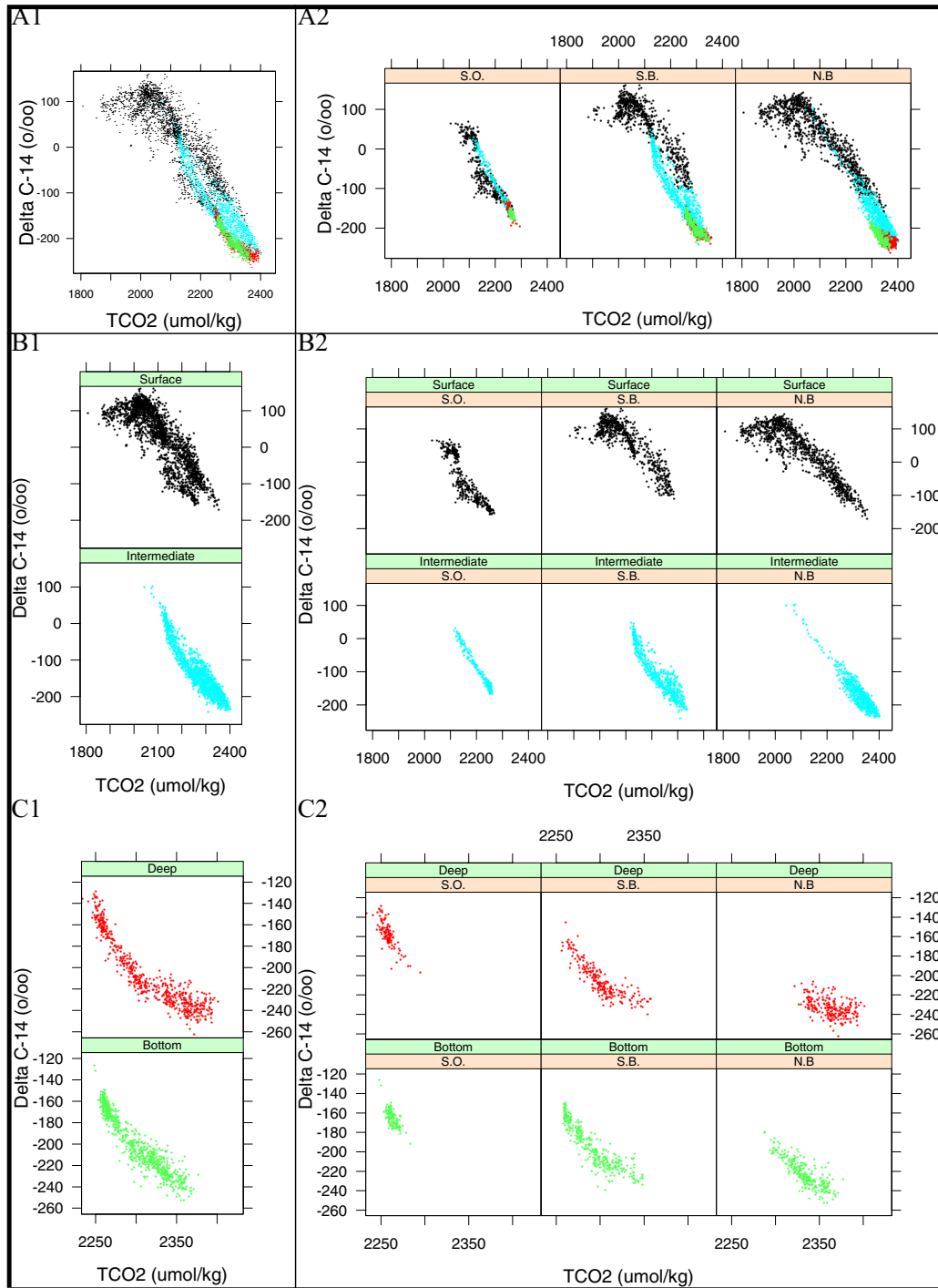


Figure 10 $\Delta^{14}\text{C}$ vs. total inorganic carbon. See Figure 7 caption.

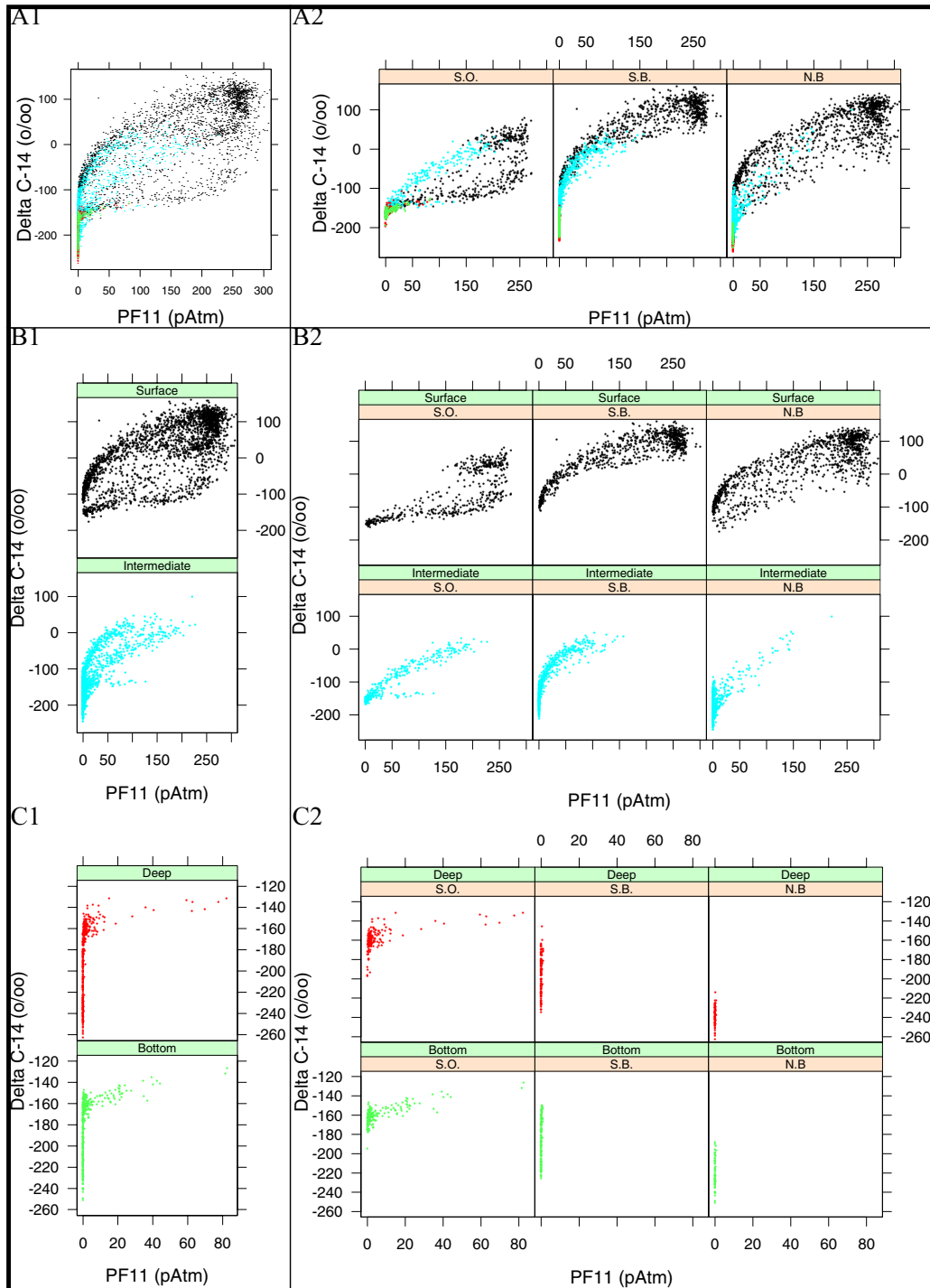


Figure 11 $\Delta^{14}\text{C}$ vs. pFCF-11. See Figure 7 caption.

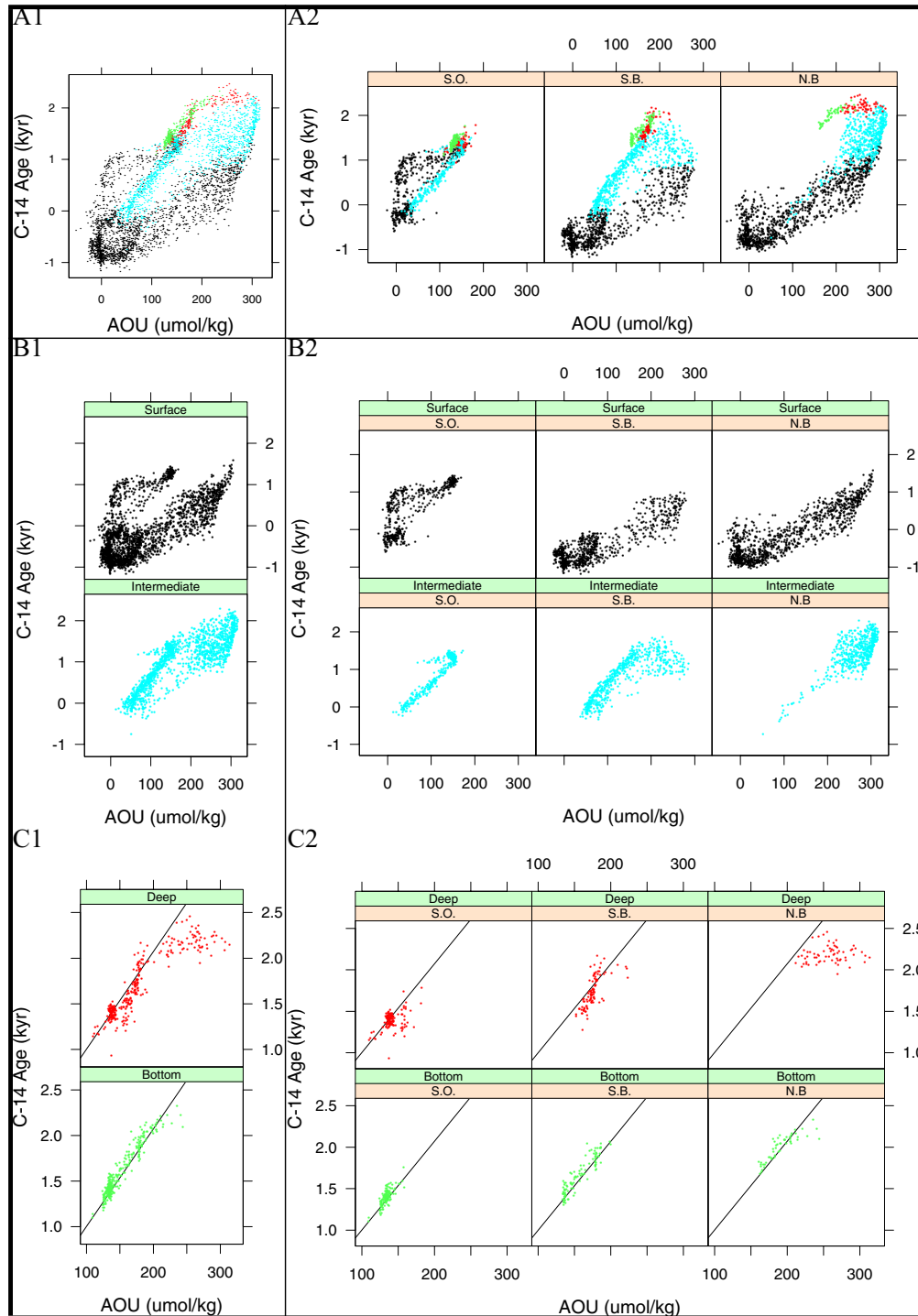


Figure 12 $\Delta^{14}\text{C}$ vs. Apparent Oxygen Utilization. See Figure 7 caption.

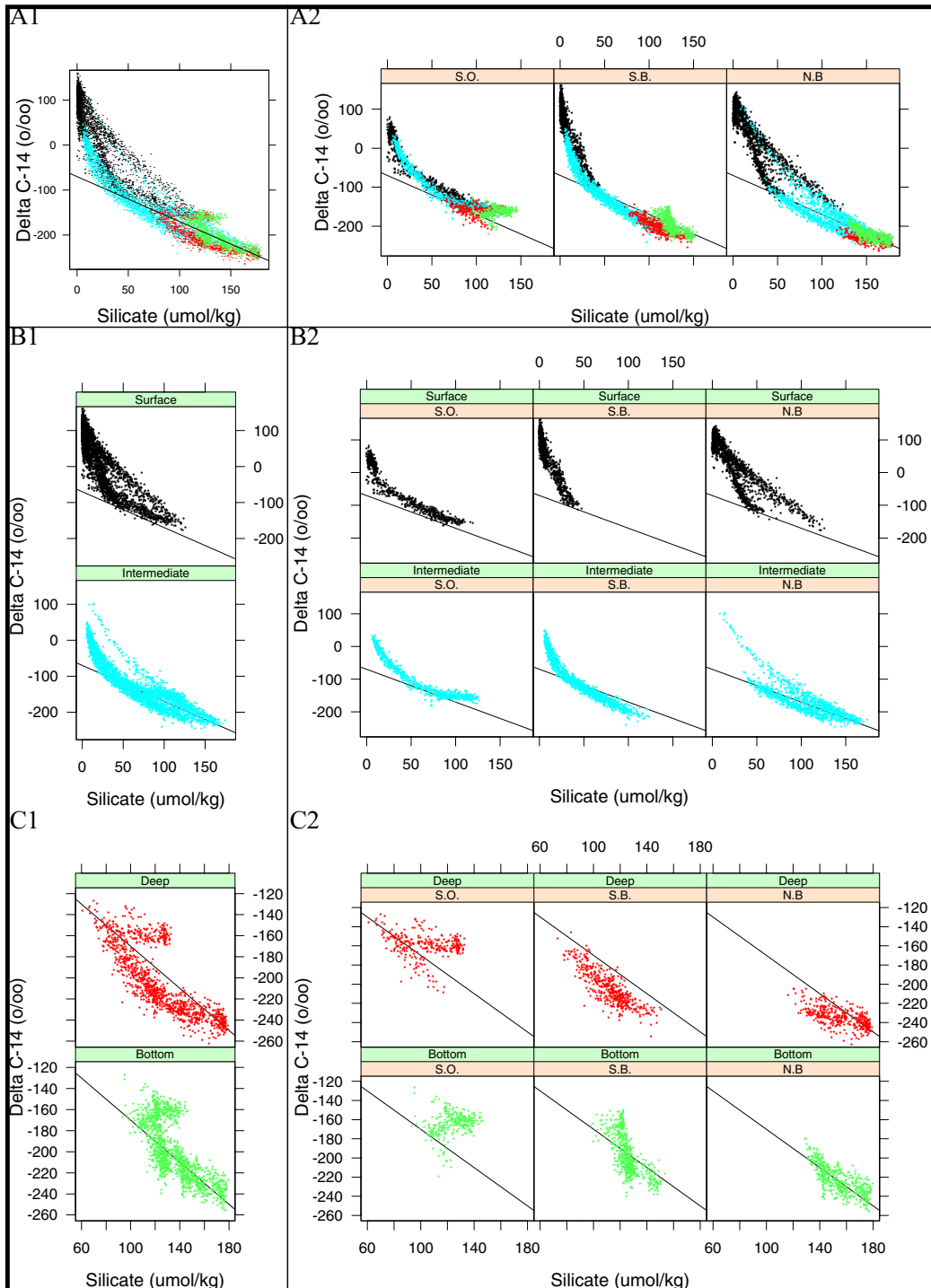


Figure 13 $\Delta^{14}\text{C}$ vs. silicate. See Figure 7 caption for data division and the text for a discussion of the regression used to distinguish bomb-produced from naturally occurring radiocarbon (Broecker et al. 1995).

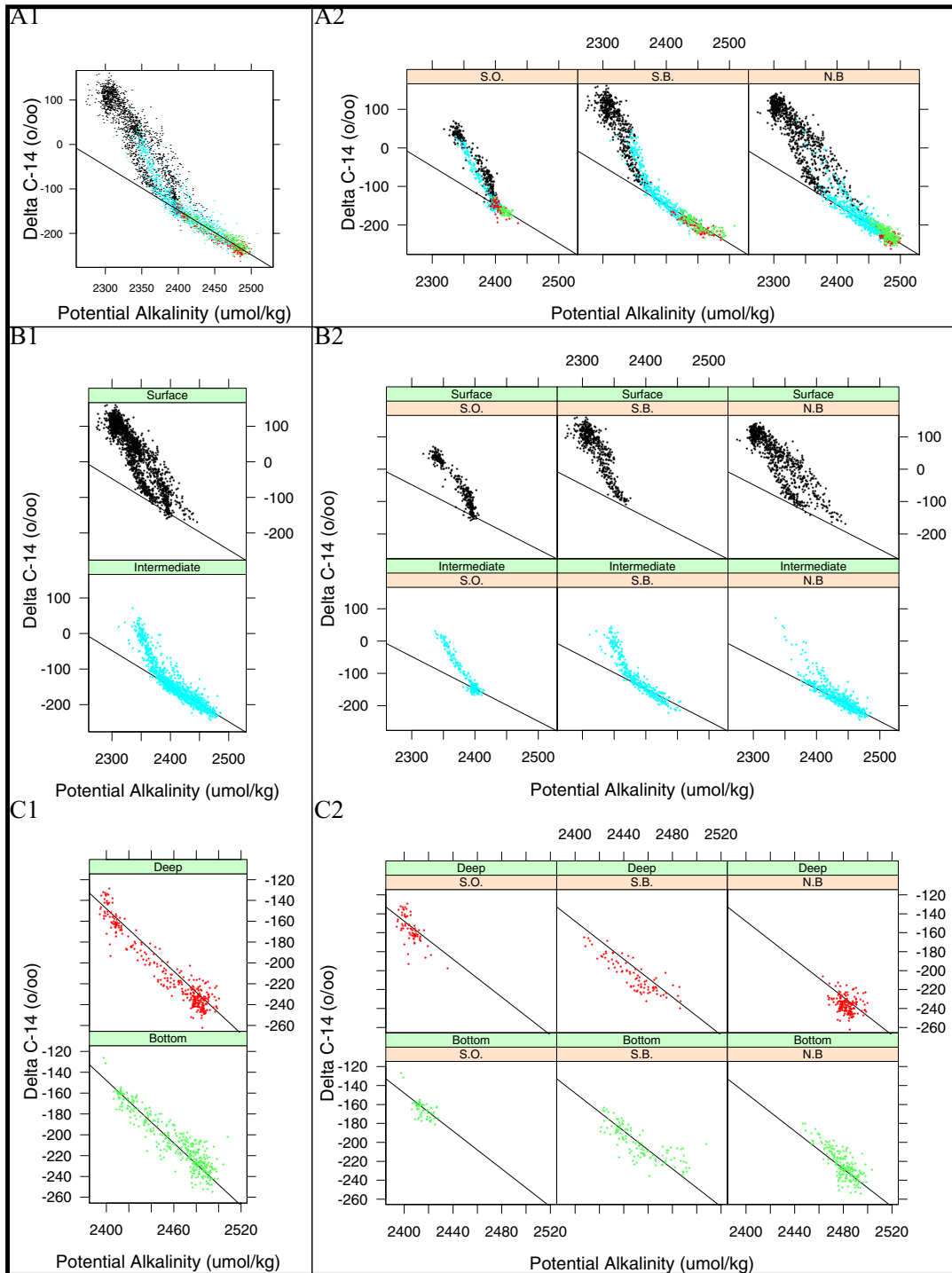


Figure 14 $\Delta^{14}\text{C}$ vs. potential alkalinity. The straight line shown in each subplot is the regression derived by Rubin and Key (2002) based on global GEOSECS data to separate bomb-produced and naturally occurring radiocarbon.

APPENDIX 2: Data Tables

Key to WOCE Cruises

| Cruise number | Starting page |
|---------------|---------------|
| P10 | 266 |
| P13 | 290 |
| P14C | 312 |
| P18 | 321 |
| P19C | 346 |
| S4P | 372 |

WOCE Cruise P10
EXPOCODE: 3250TN026/1
 10/5/93 - 11/10/93
 Chief Scientist: M. Hall
 Principal Investigator for $\Delta^{14}\text{C}$: R.M. Key
 NOSAMS Report 98-027
 Large Volume Analysis: M. Stuiver

Station 1

| | | Latitude | 4.015°S | | | Date | 10/12.93 | | | | |
|------|------|-------------|------------|--------|---|--------------------------|----------|----------------------------|----------|---|-------|
| | | Longitude | 144.811°E | | | Bottom Depth | 212 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 9 | 8 | 28.173 | 34.518 | 2 | 1.20 | 2 | 102.6 | 3.1 | 2 | 11364 |
| 1 | 5 | 103 | 25.112 | 34.942 | 2 | 1.70 | 2 | 107.1 | 3.5 | 2 | 11362 |
| 1 | 3 | 152 | 21.948 | 35.363 | 2 | 2.80 | 2 | 101.7 | 3.1 | 2 | 11361 |
| 1 | 1 | 200 | 16.380 | 35.302 | 2 | 6.20 | 2 | 72.1 | 3.1 | 2 | 11359 |

Station 3

| | | Latitude | 3.892°S | | | Date | 10/12.93 | | | | |
|------|------|-------------|------------|--------|---|--------------------------|----------|----------------------------|----------|---|-------|
| | | Longitude | 144.892°E | | | Bottom Depth | 1399 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 16 | 5 | 28.435 | 34.406 | 2 | 1.00 | 2 | 94.9 | 3.1 | 2 | 11363 |
| 1 | 13 | 151 | 21.027 | 35.459 | 2 | 3.00 | 2 | 105.1 | 3.1 | 2 | 11360 |
| 1 | 12 | 201 | 17.584 | 35.388 | 2 | 5.10 | 2 | 83.1 | 3.9 | 2 | 11358 |
| 1 | 8 | 504 | 8.406 | 34.620 | 2 | 20.50 | 2 | -49.9 | 3.4 | 2 | 11264 |
| 1 | 7 | 605 | 7.065 | 34.557 | 2 | 34.70 | 2 | -96.5 | 2.9 | 2 | 11263 |
| 1 | 6 | 706 | 6.022 | 34.511 | 2 | 42.00 | 2 | -108.6 | 3.0 | 2 | 11262 |
| 1 | 3 | 1008 | 4.427 | 34.538 | 2 | 75.90 | 2 | -158.7 | 2.9 | 2 | 11261 |
| 1 | 1 | 1382 | 3.390 | 34.583 | 2 | 106.20 | 2 | -190.1 | 2.8 | 2 | 11260 |

Station 6

| | | Latitude | 3.000°S | | | Date | 10/13.93 | | | | |
|------|------|-------------|------------|--------|---|--------------------------|----------|----------------------------|----------|---|-------|
| | | Longitude | 144.296°E | | | Bottom Depth | 2080 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 22 | 18 | 28.562 | 34.216 | 2 | 1.40 | 2 | 93.9 | 4.0 | 2 | 11453 |
| 1 | 21 | 57 | 28.342 | 34.332 | 2 | 1.40 | 2 | 96.4 | 3.7 | 2 | 11452 |
| 1 | 20 | 107 | 23.282 | 35.388 | 2 | 2.50 | 2 | 107.2 | 3.0 | 2 | 11357 |
| 1 | 19 | 157 | 20.070 | 35.438 | 2 | 4.10 | 2 | 100.6 | 3.0 | 2 | 11356 |
| 1 | 18 | 207 | 17.876 | 35.366 | 2 | 5.60 | 2 | 77.2 | 3.0 | 2 | 11355 |
| 1 | 16 | 296 | 13.428 | 35.053 | 2 | 10.10 | 2 | 33.8 | 2.8 | 2 | 11354 |
| 1 | 15 | 396 | 9.626 | 34.718 | 2 | 19.10 | 2 | -34.4 | 3.0 | 2 | 11353 |
| 1 | 13 | 598 | 6.790 | 34.544 | 2 | 36.50 | 2 | -101.5 | 3.8 | 2 | 11352 |

Station 6 (Continued)

| | | Latitude | | 3.000°S | | Date | | 10/13.93 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 144.296°E | | Bottom Depth | | 2080 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 11 | 688 | 5.953 | 34.511 | 2 | 42.90 | 2 | -113.4 | 2.7 | 2 | 11351 |
| 1 | 9 | 799 | 5.399 | 34.533 | 2 | 60.50 | 2 | -143.3 | 2.8 | 2 | 11350 |
| 1 | 7 | 1020 | 4.449 | 34.552 | 2 | 81.70 | 2 | -161.1 | 3.5 | 2 | 11266 |
| 1 | 6 | 1182 | 3.922 | 34.564 | 2 | 92.20 | 2 | -175.3 | 2.9 | 2 | 11265 |
| 1 | 5 | 1399 | 3.445 | 34.585 | 2 | 106.00 | 2 | -189.2 | 4.4 | 6 | 11257 |
| 1 | 4 | 1597 | 2.972 | 34.606 | 2 | 117.90 | 2 | -203.1 | 2.8 | 2 | 11565 |
| 1 | 3 | 1798 | 2.597 | 34.613 | 3 | 126.80 | 2 | -211.0 | 2.2 | 6 | 11255 |
| | | | | | | | | | | | 11480 |
| 1 | 1 | 2077 | 2.247 | 34.638 | 2 | 134.90 | 2 | -217.6 | 2.8 | 2 | 11254 |

Station 9

| | | Latitude | | 2.250°S | | Date | | 10/13.93 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 145.500°E | | Bottom Depth | | 1005 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 16 | 6 | 28.515 | 34.207 | 2 | 1.40 | 2 | 100.5 | 3.2 | 2 | 11052 |
| 1 | 15 | 54 | 28.208 | 34.333 | 2 | 1.20 | 2 | 94.9 | 4.6 | 2 | 11048 |
| 1 | 14 | 99 | 24.088 | 35.201 | 2 | 2.40 | 2 | 96.4 | 4.1 | 2 | 11047 |
| 1 | 12 | 199 | 17.873 | 35.363 | 2 | 5.90 | 2 | 60.4 | 4.8 | 2 | 11046 |
| 1 | 10 | 298 | 12.764 | 34.971 | 2 | 12.80 | 2 | -7.6 | 6.3 | 2 | 11045 |
| 1 | 8 | 499 | 8.275 | 34.623 | 2 | 26.00 | 2 | -78.3 | 4.4 | 2 | 11044 |
| 1 | 4 | 695 | 5.969 | 34.537 | 2 | 50.60 | 2 | -130.8 | 4.5 | 2 | 11043 |
| 1 | 1 | 998 | 4.802 | 34.542 | 2 | 73.00 | 2 | -163.4 | 3.8 | 2 | 11042 |

Station 13

| | | Latitude | | 1.250°S | | Date | | 10/14/93 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 145.786°E | | Bottom Depth | | 2299 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 22 | 17 | 28.535 | 34.296 | 2 | 1.30 | 2 | 97.3 | 4.2 | 2 | 11478 |
| 1 | 21 | 57 | 26.894 | 34.597 | 2 | 1.40 | 2 | 98.8 | 3.7 | 2 | 11477 |
| 1 | 20 | 106 | 24.910 | 34.889 | 2 | 3.10 | 2 | 94.9 | 3.4 | 2 | 11476 |
| 1 | 19 | 156 | 20.594 | 35.497 | 2 | 3.90 | 2 | 96.3 | 3.4 | 2 | 11475 |
| 1 | 18 | 206 | 17.391 | 35.307 | 2 | 6.50 | 2 | 73.5 | 3.3 | 2 | 11474 |
| 1 | 17 | 255 | 12.977 | 34.996 | 2 | 11.80 | 2 | 28.2 | 3.3 | 2 | 11473 |
| 1 | 16 | 305 | 10.943 | 34.794 | 2 | 20.60 | 2 | -17.8 | 3.2 | 2 | 11472 |
| 1 | 15 | 405 | 9.724 | 34.709 | 2 | 24.60 | 2 | -52.9 | 3.1 | 2 | 11471 |
| 1 | 14 | 465 | 9.094 | 34.678 | 2 | 24.20 | 2 | -48.6 | 3.1 | 2 | 11470 |
| 1 | 13 | 506 | 8.154 | 34.614 | 2 | 27.40 | 2 | -74.5 | 3.5 | 2 | 11469 |

Station 13 (Continued)

| | | Latitude | | 1.250°S | | Date | | 10/14/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 145.786°E | | Bottom Depth | | 2299 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 606 | 6.735 | 34.552 | 2 | 40.30 | 2 | -112.9 | 4.1 | 2 | 11459 |
| 1 | 11 | 700 | 5.932 | 34.534 | 2 | 51.70 | 2 | -124.7 | 3.0 | 2 | 11458 |
| 1 | 10 | 798 | 5.338 | 34.539 | 2 | 63.80 | 2 | -150.3 | 3.0 | 2 | 11457 |
| 1 | 9 | 899 | 4.793 | 34.541 | 2 | 72.50 | 2 | -167.2 | 3.5 | 2 | 11456 |
| 1 | 8 | 1030 | 4.430 | 34.564 | 3 | 85.00 | 2 | -179.6 | 3.0 | 2 | 11455 |
| 1 | 7 | 1201 | 3.774 | 34.572 | 2 | 97.90 | 2 | -191.7 | 3.0 | 2 | 11454 |

Station 16

| | | Latitude | | 0.475°S | | Date | | 10/15/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.008°E | | Bottom Depth | | 3523 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 28 | 8 | 28.472 | 34.354 | 2 | 1.10 | 2 | 97.6 | 3.1 | 2 | 11743 |
| 3 | 27 | 47 | 27.325 | 34.554 | 2 | 1.10 | 2 | 103.2 | 4.1 | 2 | 11742 |
| 3 | 26 | 97 | 25.018 | 34.806 | 2 | 2.20 | 2 | 87.3 | 4.5 | 2 | 11741 |
| 3 | 25 | 146 | 21.553 | 35.238 | 2 | 4.80 | 2 | 94.4 | 3.5 | 2 | 13904 |
| 3 | 24 | 196 | 18.331 | 35.348 | 2 | 5.50 | 2 | 84.0 | 2.9 | 2 | 13905 |
| 3 | 23 | 266 | 12.411 | 34.917 | 2 | 15.00 | 2 | 15.2 | 3.1 | 2 | 11839 |
| 3 | 22 | 322 | 11.096 | 34.807 | 2 | 19.20 | 2 | -18.9 | 4.2 | 2 | 11838 |
| 3 | 21 | 376 | 9.709 | 34.706 | 2 | 24.80 | 2 | -49.2 | 4.1 | 2 | 11837 |
| 3 | 20 | 496 | 7.906 | 34.589 | 2 | 29.30 | 2 | -72.8 | 6.8 | 2 | 11836 |
| 3 | 19 | 597 | 6.629 | 34.534 | 2 | 38.00 | 2 | -103.3 | 2.8 | 2 | 13898 |
| 3 | 18 | 695 | 6.132 | 34.537 | 2 | 49.00 | 2 | -126.3 | 2.4 | 2 | 11730 |
| 3 | 17 | 796 | 5.346 | 34.542 | 2 | 65.40 | 2 | -151.2 | 3.4 | 2 | 11729 |
| 3 | 16 | 871 | 4.896 | 34.543 | 2 | 73.10 | 2 | -165.2 | 2.4 | 2 | 11728 |
| 3 | 15 | 998 | 4.521 | 34.554 | 2 | 83.30 | 2 | -180.0 | 2.5 | 2 | 11727 |
| 3 | 14 | 1197 | 3.749 | 34.572 | 2 | 97.90 | 2 | -194.5 | 5.5 | 2 | 11726 |
| 3 | 81 | 1257 | 3.587 | 34.578 | 2 | 101.09 | 2 | -201.0 | 2.1 | 2 | |
| 3 | 13 | 1296 | 3.517 | 34.584 | 2 | 105.80 | 2 | -205.5 | 3.7 | 2 | 11725 |
| 3 | 82 | 1377 | 3.404 | 34.586 | 2 | 105.83 | 2 | -207.8 | 2.2 | 2 | |
| 3 | 83 | 1507 | 3.036 | 34.600 | 2 | 112.19 | 2 | -205.2 | 2.3 | 2 | |
| 3 | 84 | 1631 | 2.791 | 34.613 | 2 | 119.02 | 2 | -217.8 | 2.6 | 2 | |
| 3 | 85 | 1755 | 2.545 | 34.622 | 2 | 124.23 | 2 | -225.0 | 2.5 | 2 | |
| 3 | 87 | 1878 | 2.429 | 34.628 | 2 | 127.36 | 2 | -216.8 | 2.0 | 2 | |
| 3 | 89 | 2009 | 2.374 | 34.631 | 2 | 129.52 | 2 | -222.6 | 1.9 | 2 | |
| 3 | 90 | 2130 | 2.221 | 34.639 | 2 | 132.96 | 2 | -225.8 | 2.6 | 2 | |
| 3 | 93 | 2264 | 2.075 | 34.646 | 0 | 135.92 | 2 | -232.3 | 2.5 | 2 | |
| 1 | 81 | 2391 | 2.011 | 34.650 | 2 | 137.50 | 2 | -221.9 | 2.1 | 2 | |
| 1 | 82 | 2520 | 1.898 | 34.654 | 2 | 139.11 | 2 | -230.5 | 2.2 | 2 | |
| 1 | 83 | 2644 | 1.799 | 34.652 | 3 | 140.41 | 2 | -230.0 | 2.2 | 2 | |

Station 16

| | | Latitude | | 0.475°S | | Date | | 10/15/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-----|
| | | Longitude | | 146.008°E | | Bottom Depth | | 3523 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 84 | 2779 | 1.679 | 34.668 | 2 | 141.54 | 2 | -223.5 | 2.1 | 2 | |
| 1 | 85 | 2896 | 1.629 | 34.670 | 2 | 141.72 | 2 | -220.5 | 2.2 | 2 | |
| 1 | 87 | 3019 | 1.613 | 34.672 | 2 | 141.88 | 2 | -226.8 | 1.6 | 2 | |
| 1 | 89 | 3149 | 1.600 | 34.674 | 2 | 141.89 | 2 | -222.9 | 2.2 | 2 | |
| 1 | 90 | 3271 | 1.585 | 34.675 | 2 | 141.90 | 2 | -217.2 | 2.1 | 2 | |
| 1 | 93 | 3408 | 1.570 | 34.678 | 2 | 141.59 | 2 | -221.2 | 2.2 | 2 | |

Station 18

| | | Latitude | | 0.000°S | | Date | | 10/15/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.142°E | | Bottom Depth | | 3477 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 27 | 15 | 28.101 | 34.587 | 3 | 1.10 | 2 | 103.8 | 2.9 | 2 | 13900 |
| 1 | 26 | 60 | 26.604 | 34.817 | 3 | 1.20 | 2 | 101.6 | 2.8 | 2 | 13899 |
| 1 | 25 | 109 | 24.506 | 44.245 | 4 | 2.70 | 2 | 112.7 | 3.5 | 2 | 10970 |
| 1 | 24 | 158 | 19.808 | 35.398 | 2 | 4.50 | 2 | 104.2 | 3.5 | 2 | 10969 |
| 1 | 23 | 206 | 16.659 | 35.280 | 2 | 6.40 | 2 | 59.4 | 4.4 | 2 | 10968 |
| 1 | 22 | 256 | 13.746 | 35.061 | 2 | 9.80 | 2 | 48.3 | 4.1 | 2 | 10967 |
| 1 | 21 | 306 | 11.392 | 34.840 | 2 | 17.10 | 2 | -1.5 | 3.7 | 2 | 10966 |
| 1 | 20 | 406 | 9.408 | 34.703 | 2 | 26.00 | 2 | -55.3 | 3.1 | 2 | 10965 |
| 1 | 19 | 506 | 7.604 | 34.575 | 2 | 29.30 | 2 | -72.6 | 3.9 | 2 | 10964 |
| 1 | 18 | 556 | 6.910 | 34.550 | 2 | 41.20 | 2 | -104.8 | 3.7 | 2 | 10963 |
| 1 | 17 | 606 | 6.540 | 34.525 | 3 | 39.90 | 2 | -104.2 | 3.3 | 2 | 10962 |
| 1 | 16 | 706 | 6.084 | 34.542 | 2 | 53.20 | 2 | -128.4 | 3.1 | 2 | 10961 |
| 1 | 15 | 807 | 5.377 | 34.541 | 2 | 64.60 | 2 | -145.2 | 2.8 | 2 | 10843 |
| 1 | 14 | 907 | 5.140 | 34.542 | 2 | 68.50 | 2 | -154.7 | 3.0 | 2 | 10842 |
| 1 | 12 | 1208 | 3.872 | 34.577 | 3 | 95.10 | 2 | -194.0 | 2.9 | 2 | 10841 |
| 1 | 10 | 1609 | 2.837 | 34.608 | 2 | 118.90 | 2 | -221.5 | 2.7 | 2 | 10839 |

Station 20

| | | Latitude | | 0.500°N | | Date | | 10/16/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.283°E | | Bottom Depth | | 4134 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 30 | 20 | 28.583 | 34.343 | 2 | 0.90 | 2 | 94.0 | 4.2 | 2 | 11416 |
| 1 | 28 | 109 | 23.722 | 34.935 | 2 | 3.20 | 2 | 100.0 | 3.7 | 2 | 11415 |
| 1 | 27 | 158 | 19.917 | 35.272 | 2 | 5.80 | 2 | 90.8 | 4.0 | 2 | 11414 |
| 1 | 26 | 207 | 16.794 | 35.124 | 2 | 9.90 | 2 | 72.1 | 4.3 | 2 | 11413 |
| 1 | 25 | 256 | 13.030 | 34.791 | 2 | 19.50 | 2 | 8.6 | 3.1 | 2 | 11412 |

Station 20 (Continued)

| | | Latitude | | 0.500°N | | Date | | 10/16/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.283°E | | Bottom Depth | | 4134 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 306 | 11.726 | 34.871 | 2 | 16.20 | 2 | 3.6 | 2.9 | 2 | 11411 |
| 1 | 23 | 405 | 9.991 | 34.720 | 2 | 25.80 | 2 | -39.3 | 2.8 | 2 | 11410 |
| 1 | 21 | 554 | 7.616 | 34.576 | 2 | 37.20 | 2 | -82.2 | 3.5 | 2 | 11409 |
| 1 | 20 | 605 | 6.664 | 34.530 | 2 | 39.50 | 2 | -98.9 | 3.4 | 2 | 11408 |
| 1 | 19 | 706 | 6.192 | 34.542 | 2 | 51.30 | 2 | -122.8 | 2.6 | 2 | 11407 |
| 1 | 18 | 806 | 5.603 | 34.540 | 2 | 61.40 | 2 | -147.0 | 2.7 | 2 | 11406 |
| 1 | 17 | 886 | 5.200 | 34.545 | 2 | 66.90 | 2 | -149.8 | 2.8 | 2 | 11405 |
| 1 | 16 | 1007 | 4.553 | 34.561 | 3 | 81.70 | 2 | -168.5 | 4.6 | 2 | 11404 |
| 1 | 15 | 1198 | 3.951 | 34.569 | 2 | 96.60 | 2 | -190.6 | 3.4 | 2 | 11403 |
| 1 | 14 | 1394 | 3.283 | 34.590 | 3 | 110.10 | 2 | -199.7 | 3.0 | 2 | 11402 |
| 1 | 13 | 1595 | 2.828 | 34.609 | 2 | 120.80 | 2 | -204.8 | 3.1 | 2 | 11401 |

Station 22

| | | Latitude | | 1.000°N | | Date | | 10/16/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.428°E | | Bottom Depth | | 4521 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 30 | 20 | 28.661 | 34.205 | 2 | 6.80 | 2 | 105.0 | 3.7 | 2 | 11434 |
| 1 | 29 | 59 | 27.692 | 34.343 | 2 | 5.00 | 2 | 103.4 | 3.5 | 2 | 11433 |
| 1 | 28 | 108 | 23.670 | 34.963 | 2 | 9.20 | 2 | 79.6 | 5.6 | 2 | 11432 |
| 1 | 27 | 158 | 19.881 | 35.177 | 2 | 7.00 | 2 | 65.4 | 7.7 | 2 | 11431 |
| 1 | 26 | 207 | 16.380 | 35.062 | 2 | 11.20 | 2 | 35.9 | 5.0 | 2 | 11430 |
| 1 | 24 | 306 | 10.819 | 34.759 | 2 | 23.10 | 2 | -28.7 | 3.7 | 2 | 11429 |
| 1 | 23 | 386 | 9.997 | 34.715 | 2 | 26.50 | 2 | -43.2 | 4.1 | 2 | 11428 |
| 1 | 22 | 506 | 7.913 | 34.590 | 2 | 35.60 | 2 | -78.7 | 3.1 | 2 | 11427 |
| 1 | 21 | 599 | 6.558 | 34.538 | 2 | 43.60 | 2 | -111.0 | 4.1 | 2 | 11400 |
| 1 | 20 | 698 | 6.077 | 34.539 | 2 | 52.00 | 2 | -123.0 | 3.7 | 2 | 11399 |
| 1 | 19 | 822 | 5.341 | 34.541 | 2 | 64.40 | 2 | -153.9 | 3.4 | 2 | 11398 |
| 1 | 18 | 922 | 4.858 | 34.546 | 2 | 75.20 | 2 | -158.5 | 3.0 | 2 | 11397 |
| 1 | 17 | 994 | 4.554 | 34.552 | 2 | 82.10 | 2 | -167.2 | 5.9 | 2 | 11396 |
| 1 | 16 | 1195 | 4.053 | 34.571 | 2 | 95.90 | 2 | -189.8 | 4.8 | 2 | 11395 |
| 1 | 15 | 1397 | 3.447 | 34.585 | 2 | 108.60 | 2 | -205.7 | 3.5 | 2 | 11479 |

Station 25

| | | Latitude | | 1.750°N | | Date | | 10/17/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.642°E | | Bottom Depth | | 4446 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 35 | 11 | 28.962 | 34.055 | 2 | 2.10 | 2 | 99.3 | 5.3 | 2 | 10946 |
| 3 | 34 | 50 | 28.201 | 34.241 | 2 | 2.10 | 2 | 106.1 | 3.7 | 2 | 10945 |
| 3 | 33 | 99 | 24.692 | 34.866 | 2 | 3.20 | 2 | 115.5 | 5.2 | 2 | 10944 |
| 3 | 32 | 147 | 21.382 | 35.143 | 2 | 6.30 | 2 | 93.5 | 4.2 | 2 | 10943 |
| 3 | 31 | 197 | 15.190 | 34.805 | 2 | 15.70 | 2 | 58.7 | 4.0 | 2 | 10942 |
| 3 | 30 | 249 | 11.489 | 34.624 | 2 | 27.80 | 2 | 4.9 | 4.2 | 2 | 10941 |
| 3 | 28 | 351 | 9.893 | 34.704 | 2 | 27.70 | 2 | -41.0 | 4.3 | 2 | 10940 |
| 3 | 27 | 425 | 9.430 | 34.678 | 2 | 29.20 | 2 | -48.8 | 4.3 | 2 | 10939 |
| 3 | 26 | 499 | 8.657 | 34.633 | 2 | 31.90 | 2 | -71.6 | 4.2 | 2 | 10938 |
| 3 | 25 | 599 | 6.957 | 34.560 | 2 | 44.30 | 2 | -106.2 | 4.2 | 2 | 10937 |
| 3 | 23 | 721 | 5.808 | 34.538 | 2 | 57.40 | 2 | -137.5 | 4.7 | 2 | 10824 |
| 3 | 22 | 823 | 5.527 | 34.532 | 3 | 58.90 | 2 | -137.3 | 3.2 | 2 | 10772 |
| 3 | 20 | 991 | 4.734 | 34.543 | 2 | 78.60 | 2 | -164.6 | 2.8 | 2 | 10770 |
| 3 | 19 | 1094 | 4.324 | 34.561 | 2 | 90.40 | 2 | -182.3 | 2.6 | 2 | 10769 |
| 3 | 18 | 1196 | 3.961 | 34.577 | 3 | 97.60 | 2 | -183.5 | 2.7 | 2 | 10768 |
| 3 | 81 | 1418 | 3.345 | 34.591 | 2 | 110.36 | 2 | -203.2 | 2.1 | 2 | |
| 3 | 82 | 1622 | 2.789 | 34.613 | 2 | 121.58 | 2 | -221.5 | 2.1 | 2 | |
| 3 | 16 | 1624 | 2.782 | 34.604 | 3 | 122.00 | 2 | -210.2 | 4.3 | 2 | 10771 |
| 3 | 83 | 1802 | 2.541 | 34.622 | 2 | 127.68 | 2 | -213.4 | 2.2 | 2 | |
| 3 | 84 | 1983 | 2.289 | 34.626 | 2 | 133.45 | 2 | -232.2 | 2.1 | 2 | |
| 3 | 85 | 2150 | 2.117 | 34.643 | 2 | 136.58 | 2 | -231.8 | 2.1 | 2 | |
| 3 | 87 | 2322 | 1.991 | 34.644 | 2 | 139.37 | 2 | -229.4 | 1.5 | 2 | |
| 3 | 89 | 2512 | 1.803 | 34.660 | 2 | 141.84 | 2 | -228.8 | 2.2 | 2 | |
| 3 | 90 | 2683 | 1.685 | 34.666 | 2 | 142.30 | 2 | -228.7 | 1.7 | 2 | |
| 3 | 93 | 2868 | 1.648 | 34.662 | 2 | 141.95 | 2 | -225.5 | 2.1 | 2 | |
| 1 | 81 | 3052 | 1.634 | 34.673 | 2 | 143.40 | 2 | -231.1 | 2.1 | 2 | |
| 1 | 82 | 3230 | 1.604 | 34.674 | 2 | 143.21 | 2 | -222.8 | 2.1 | 2 | |
| 1 | 83 | 3406 | 1.567 | 34.678 | 2 | 143.36 | 2 | -220.2 | 2.2 | 2 | |
| 1 | 84 | 3596 | 1.542 | 34.680 | 2 | 143.39 | 2 | -216.5 | 2.2 | 2 | |
| 1 | 85 | 3767 | 1.542 | 34.683 | 2 | 142.82 | 2 | -219.9 | 2.1 | 2 | |
| 1 | 87 | 3936 | 1.537 | 34.685 | 2 | 142.47 | 2 | -214.0 | 2.2 | 2 | |
| 1 | 89 | 4117 | 1.516 | 34.687 | 2 | 141.93 | 2 | -214.1 | 2.4 | 2 | |
| 1 | 90 | 4292 | 1.522 | 34.688 | 2 | 141.26 | 2 | -211.7 | 2.1 | 2 | |
| 1 | 93 | 4479 | 1.535 | 34.688 | 2 | 141.07 | 2 | -213.6 | 2.1 | 2 | |

Station 28

| | | Latitude | | 2.500°N | | Date | | 10/18/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 146.858°E | | Bottom Depth | | 4437 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 29.070 | 34.048 | 2 | 0.80 | 2 | 104.6 | 6.6 | 2 | 11861 |
| 1 | 31 | 20 | 29.021 | 34.046 | 2 | 0.60 | 2 | 94.3 | 5.4 | 2 | 11860 |
| 1 | 30 | 47 | 28.301 | 34.234 | 2 | 1.00 | 2 | 101.7 | 4.3 | 2 | 11859 |
| 1 | 29 | 73 | 28.124 | 34.323 | 2 | 0.70 | 2 | 93.6 | 4.6 | 2 | 11858 |
| 1 | 28 | 97 | 25.532 | 34.645 | 2 | 1.50 | 2 | 106.6 | 6.3 | 2 | 11849 |
| 1 | 27 | 146 | 21.557 | 35.126 | 2 | 3.80 | 2 | 93.6 | 5.0 | 2 | 11848 |
| 1 | 26 | 196 | 14.852 | 34.648 | 2 | 15.80 | 2 | 64.5 | 3.8 | 2 | 11847 |
| 1 | 25 | 226 | 11.413 | 34.507 | 2 | 27.90 | 2 | -4.4 | 6.5 | 2 | 11846 |
| 1 | 24 | 296 | 10.061 | 34.734 | 2 | 21.50 | 2 | -27.4 | 3.6 | 2 | 11845 |
| 1 | 23 | 396 | 9.493 | 34.678 | 2 | 25.20 | 2 | -49.6 | 3.8 | 2 | 11844 |
| 1 | 22 | 496 | 8.579 | 34.615 | 2 | 31.10 | 2 | -69.8 | 5.5 | 2 | 11843 |
| 1 | 20 | 696 | 6.541 | 34.539 | 2 | 50.90 | 2 | -125.2 | 6.0 | 2 | 11842 |
| 1 | 18 | 896 | 5.114 | 34.538 | 2 | 73.80 | 2 | -162.1 | 3.1 | 2 | 11841 |
| 1 | 17 | 996 | 4.666 | 34.552 | 2 | 83.00 | 2 | -169.4 | 3.9 | 2 | 11840 |
| 1 | 16 | 1196 | 3.863 | 34.573 | 2 | 99.00 | 2 | -179.7 | 4.2 | 2 | 11738 |
| 1 | 14 | 1594 | 2.936 | 34.604 | 2 | 120.30 | 2 | -205.5 | 5.0 | 2 | 11737 |

Station 31

| | | Latitude | | 3.503°N | | Date | | 10/19/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 147.214°E | | Bottom Depth | | 4586 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 15 | 28.858 | -9 | 9 | -9 | 9 | 84.8 | 5.2 | 2 | 11801 |
| 1 | 30 | 58 | 28.596 | 34.208 | 2 | 1.80 | 2 | 89.9 | 5.3 | 2 | 11800 |
| 1 | 29 | 106 | 25.507 | 34.502 | 2 | 3.20 | 2 | 89.4 | 3.5 | 6 | 11799 |
| 1 | 28 | 156 | 16.817 | 34.672 | 2 | 12.60 | 2 | 79.6 | 4.8 | 2 | 11888 |
| 1 | 27 | 206 | 11.333 | 34.473 | 2 | 28.70 | 2 | -7.5 | 3.6 | 2 | 11877 |
| 1 | 26 | 255 | 9.648 | 34.505 | 2 | 37.40 | 2 | -43.8 | 4.8 | 2 | 11876 |
| 1 | 25 | 305 | 8.855 | 34.583 | 2 | 38.40 | 2 | -67.3 | 3.8 | 2 | 11875 |
| 1 | 24 | 406 | 8.419 | 34.610 | 2 | 34.60 | 2 | -83.4 | 3.9 | 2 | 11874 |
| 1 | 23 | 505 | 7.858 | 34.587 | 2 | 40.20 | 2 | -98.9 | 3.5 | 2 | 11873 |
| 1 | 22 | 606 | 7.155 | 34.568 | 4 | 46.90 | 2 | -112.2 | 4.7 | 2 | 11872 |
| 1 | 21 | 706 | 6.468 | 34.548 | 2 | 54.30 | 2 | -136.2 | 3.5 | 2 | 11871 |
| 1 | 20 | 806 | 5.640 | 34.551 | 4 | 66.60 | 2 | -158.8 | 4.0 | 2 | 11870 |
| 1 | 19 | 906 | 5.177 | 34.548 | 2 | 74.00 | 2 | -157.2 | 5.9 | 2 | 11869 |
| 1 | 18 | 1006 | 4.868 | 34.552 | 2 | 79.80 | 2 | -167.7 | 4.1 | 2 | 11868 |
| 1 | 16 | 1408 | 3.245 | 34.594 | 2 | 115.80 | 2 | -207.6 | 5.0 | 2 | 11865 |
| 1 | 15 | 1609 | 2.799 | 34.611 | 2 | 126.00 | 2 | -227.9 | 4.8 | 2 | 11864 |

Station 34

| | | Latitude | | 5.000°N | | | Date | | | 10/20/93 | | |
|------|------|-------------|------------|-----------|---|---------------|--------------|------------------------|----------|----------|-------|--|
| | | Longitude | | 147.850°E | | | Bottom Depth | | | 4193 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 2 | 36 | 16 | 29.010 | 33.525 | 2 | 1.50 | 2 | 91.3 | 5.6 | 2 | 11798 | |
| 2 | 28 | 107 | 24.477 | 34.578 | 2 | 3.30 | 2 | 105.4 | 5.8 | 2 | 11797 | |
| 2 | 27 | 157 | 15.578 | 34.660 | 2 | 14.40 | 2 | 71.5 | 3.5 | 6 | 11796 | |
| | | | | | | | | | | | 11934 | |
| 2 | 26 | 207 | 9.970 | 34.494 | 2 | 34.00 | 2 | -37.2 | 4.4 | 2 | 11795 | |
| 2 | 25 | 256 | 9.481 | 34.589 | 2 | 36.70 | 2 | -55.3 | 2.6 | 6 | 11794 | |
| | | | | | | | | | | | 12041 | |
| 2 | 24 | 307 | 8.911 | 34.586 | 2 | 37.70 | 2 | -68.3 | 4.2 | 2 | 11793 | |
| 2 | 23 | 406 | 8.076 | 34.589 | 2 | 38.40 | 2 | -80.9 | 4.1 | 2 | 11792 | |
| 2 | 22 | 481 | 7.629 | 34.575 | 2 | 40.30 | 2 | -83.0 | 4.9 | 2 | 11791 | |
| 2 | 21 | 556 | 7.261 | 34.561 | 2 | 47.70 | 2 | -125.1 | 4.4 | 2 | 11878 | |
| 2 | 20 | 631 | 6.874 | 34.550 | 2 | 50.60 | 2 | -122.7 | 4.7 | 2 | 11857 | |
| 2 | 19 | 706 | 6.378 | 34.542 | 2 | 59.20 | 2 | -135.1 | 6.9 | 2 | 11856 | |
| 2 | 18 | 806 | 5.530 | 34.536 | 2 | 71.10 | 2 | -155.2 | 5.1 | 6 | 11855 | |
| | | | | | | | | | | | 11867 | |
| 2 | 17 | 906 | 5.052 | 34.541 | 2 | 78.80 | 2 | -173.7 | 5.5 | 2 | 11854 | |
| 2 | 16 | 1006 | 4.596 | 34.569 | 4 | 88.40 | 2 | -182.0 | 3.7 | 2 | 11866 | |
| 2 | 15 | 1206 | 3.756 | 34.574 | 2 | 105.60 | 2 | -191.8 | 3.8 | 2 | 11852 | |
| 2 | 14 | 1406 | 3.129 | 34.594 | 2 | 119.10 | 2 | -212.4 | 5.5 | 2 | 11851 | |
| 3 | 81 | 1498 | 2.872 | 34.606 | 2 | 125.60 | 2 | -220.9 | 2.1 | 2 | | |
| 3 | 82 | 1625 | 2.685 | 34.614 | 2 | 129.32 | 2 | -227.2 | 2.1 | 2 | | |
| 3 | 83 | 1750 | 2.502 | 34.622 | 2 | 133.38 | 2 | -229.4 | 2.2 | 2 | | |
| 3 | 84 | 1879 | 2.342 | 34.629 | 2 | 137.11 | 2 | -229.0 | 2.1 | 2 | | |
| 3 | 85 | 1999 | 2.163 | 34.639 | 2 | 141.00 | 2 | -234.8 | 2.1 | 2 | | |
| 3 | 87 | 2122 | 2.057 | 34.645 | 2 | 141.30 | 2 | -227.8 | 2.2 | 2 | | |
| 3 | 89 | 2251 | 1.979 | 34.649 | 2 | 142.76 | 2 | -234.5 | 2.1 | 2 | | |
| 3 | 90 | 2375 | 1.900 | 34.654 | 2 | 143.55 | 2 | -229.3 | 2.2 | 2 | | |
| 3 | 93 | 2510 | 1.808 | 34.659 | 2 | 144.67 | 2 | -232.5 | 2.1 | 2 | | |
| 1 | 81 | 2819 | 1.661 | 34.668 | 2 | 142.39 | 2 | -224.3 | 1.5 | 2 | | |
| 1 | 82 | 2996 | 1.586 | 34.673 | 2 | 142.16 | 2 | -216.8 | 2.1 | 2 | | |
| 1 | 83 | 3174 | 1.572 | 34.675 | 2 | 142.08 | 2 | -219.9 | 2.1 | 2 | | |
| 1 | 84 | 3362 | 1.538 | 34.677 | 2 | 142.17 | 2 | -219.8 | 2.1 | 2 | | |
| 1 | 85 | 3527 | 1.541 | 34.680 | 2 | 141.93 | 2 | -214.5 | 2.1 | 2 | | |
| 1 | 87 | 3699 | 1.531 | 34.683 | 2 | 141.85 | 2 | -219.4 | 2.1 | 2 | | |
| 1 | 89 | 3876 | 1.538 | 34.684 | 2 | 141.93 | 2 | -215.2 | 2.1 | 2 | | |
| 1 | 90 | 4055 | 1.541 | 34.684 | 2 | 142.02 | 2 | -218.1 | 2.1 | 2 | | |
| 1 | 93 | 4240 | 1.552 | 34.684 | 2 | 141.78 | 2 | -218.7 | 2.2 | 2 | | |

Station 36

| | | Latitude | | 6.000°N | | Date | | 10/20/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 148.272°E | | Bottom Depth | | 4095 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 28.852 | 33.715 | 2 | 1.10 | 2 | 114.2 | 5.7 | 2 | 11259 |
| 1 | 29 | 97 | 22.337 | 34.695 | 2 | 4.90 | 2 | 113.7 | 3.5 | 2 | 11229 |
| 1 | 28 | 146 | 14.846 | 34.630 | 2 | 16.70 | 2 | 63.4 | 3.1 | 2 | 11258 |
| 1 | 27 | 196 | 12.081 | 34.541 | 2 | 25.30 | 2 | 3.4 | 3.2 | 2 | 11250 |
| 1 | 26 | 246 | 10.329 | 34.616 | 4 | 33.00 | 2 | -40.8 | 2.8 | 2 | 11393 |
| 1 | 25 | 297 | 9.616 | 34.580 | 2 | 36.40 | 2 | -59.3 | 3.0 | 2 | 11248 |
| 1 | 24 | 347 | 9.114 | 34.610 | 2 | 36.70 | 2 | -79.8 | 2.8 | 6 | 11247 |
| | | | | | | | | | | | 11437 |
| 1 | 23 | 387 | 9.037 | 34.607 | 2 | 37.00 | 2 | -80.5 | 3.0 | 2 | 11246 |
| 1 | 22 | 495 | 8.087 | 34.599 | 2 | 43.00 | 2 | -105.0 | 2.9 | 2 | 11245 |
| 1 | 20 | 597 | 6.806 | 34.602 | 4 | 56.30 | 2 | -129.8 | 4.3 | 2 | 11244 |
| 1 | 19 | 699 | 6.101 | 34.538 | 2 | 65.60 | 2 | -141.8 | 3.8 | 2 | 11243 |
| 1 | 18 | 798 | 5.177 | 34.545 | 2 | 79.20 | 2 | -167.2 | 2.8 | 2 | 11242 |
| 1 | 17 | 955 | 4.537 | 34.552 | 2 | 90.60 | 2 | -174.0 | 2.7 | 2 | 11241 |
| 1 | 16 | 1104 | 3.810 | 34.571 | 2 | 104.90 | 2 | -191.4 | 3.3 | 2 | 11226 |
| 1 | 15 | 1220 | 3.505 | 34.583 | 2 | 110.90 | 2 | -195.0 | 2.8 | 2 | 11225 |
| 1 | 13 | 1578 | 2.790 | 34.633 | 4 | 126.30 | 2 | -218.0 | 3.7 | 2 | 11224 |

Station 41

| | | Latitude | | 8.500°N | | Date | | 10/21/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 3617 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 14 | 29.032 | 33.813 | 2 | 1.10 | 2 | 91.5 | 3.9 | 2 | 11444 |
| 1 | 25 | 97 | 22.815 | 34.775 | 2 | 3.40 | 2 | 100.9 | 4.1 | 2 | 11443 |
| 1 | 22 | 245 | 9.847 | 34.554 | 2 | 34.60 | 2 | -58.2 | 3.3 | 2 | 11442 |
| 1 | 21 | 282 | 9.222 | 34.537 | 4 | 5.50 | 4 | 93.8 | 3.8 | 4 | 11441 |
| 1 | 20 | 334 | 8.648 | 34.608 | 3 | 39.80 | 2 | -95.6 | 3.3 | 2 | 11440 |
| 1 | 19 | 496 | 7.340 | 34.559 | 2 | 50.60 | 2 | -124.6 | 4.0 | 2 | 11439 |
| 1 | 18 | 595 | 6.646 | 34.535 | 2 | 58.40 | 2 | -128.8 | 3.0 | 2 | 11438 |
| 1 | 17 | 697 | 5.975 | 34.532 | 2 | 67.30 | 2 | -146.0 | 3.8 | 2 | 11564 |
| 1 | 16 | 797 | 5.587 | 34.537 | 2 | 73.10 | 2 | -152.1 | 3.4 | 2 | 11563 |
| 1 | 15 | 898 | 5.025 | 34.542 | 2 | 82.50 | 2 | -163.2 | 5.1 | 2 | 11562 |
| 1 | 14 | 1004 | 4.576 | 34.552 | 2 | 90.90 | 2 | -175.0 | 3.7 | 2 | 11561 |
| 1 | 13 | 1215 | 3.704 | 34.576 | 2 | 107.70 | 2 | -194.6 | 3.0 | 2 | 11560 |
| 1 | 12 | 1374 | 3.176 | 34.591 | 2 | 118.70 | 2 | -207.0 | 3.3 | 2 | 11559 |
| 1 | 10 | 1785 | 2.439 | 34.625 | 2 | 133.70 | 2 | -216.9 | 5.1 | 2 | 11558 |
| 1 | 9 | 1992 | 2.208 | 34.635 | 2 | 138.40 | 2 | -223.1 | 3.2 | 2 | 11557 |
| 1 | 7 | 2391 | 1.895 | 34.653 | 2 | 143.20 | 2 | -223.5 | 3.0 | 2 | 11556 |

Station 44

| | | Latitude | | 9.697°N | | Date | | 10/22/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5333 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | |
| 1 | 9 | 4003 | 1.462 | 34.690 | 2 | 139.40 | 2 | -209.9 | 2.8 | 2 | 11041 |
| 1 | 8 | 4204 | 1.445 | 34.693 | 2 | 137.40 | 2 | -205.0 | 3.8 | 2 | 11040 |
| 1 | 7 | 4396 | 1.444 | 34.693 | 2 | 135.90 | 2 | -203.5 | 2.9 | 2 | 11039 |
| 1 | 6 | 4592 | 1.442 | 34.696 | 2 | 134.30 | 2 | -198.1 | 3.5 | 2 | 11038 |
| 1 | 4 | 4794 | 1.448 | 34.696 | 2 | 133.00 | 2 | -192.1 | 4.1 | 2 | 11037 |
| 1 | 3 | 4996 | 1.454 | 34.700 | 2 | 132.10 | 2 | -190.9 | 3.5 | 2 | 11036 |
| 1 | 2 | 5194 | 1.464 | 34.700 | 2 | 130.70 | 2 | -191.9 | 3.3 | 2 | 11050 |
| 1 | 1 | 5428 | 1.492 | 34.699 | 2 | 130.40 | 2 | -186.5 | 3.4 | 2 | 11032 |

Station 45

| | | Latitude | | 10.000°N | | Date | | 10/22/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5548 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 29.004 | 34.077 | 2 | 1.40 | 2 | 103.4 | 3.3 | 2 | 11380 |
| 1 | 33 | 96 | 22.480 | 34.844 | 2 | 2.50 | 2 | 110.9 | 3.4 | 2 | 11379 |
| 1 | 31 | 200 | 12.213 | 34.410 | 2 | 18.20 | 2 | 49.8 | 3.2 | 2 | 11378 |
| 1 | 30 | 298 | 9.658 | 34.596 | 2 | 35.70 | 2 | -70.5 | 3.1 | 2 | 11377 |
| 1 | 29 | 390 | 8.536 | 34.593 | 2 | 41.00 | 2 | -102.3 | 2.9 | 2 | 11376 |
| 1 | 28 | 498 | 7.684 | 34.565 | 2 | 47.90 | 2 | -115.8 | 3.0 | 2 | 11374 |
| 1 | 27 | 594 | 7.029 | 34.542 | 2 | 55.30 | 2 | -126.6 | 2.8 | 2 | 11373 |
| 1 | 26 | 700 | 6.287 | 34.533 | 2 | 64.40 | 2 | -142.5 | 2.7 | 2 | 11372 |
| 1 | 25 | 801 | 5.596 | 34.530 | 2 | 74.00 | 2 | -161.1 | 2.8 | 2 | 11371 |
| 1 | 24 | 999 | 4.530 | 34.547 | 2 | 93.10 | 2 | -184.4 | 2.7 | 2 | 11370 |
| 1 | 22 | 1398 | 3.116 | 34.596 | 2 | 121.70 | 2 | -209.6 | 2.5 | 2 | 11369 |
| 1 | 19 | 1804 | 2.475 | 34.624 | 2 | 134.90 | 2 | -229.3 | 2.6 | 2 | 11368 |
| 1 | 18 | 2013 | 2.202 | 34.650 | 4 | 139.80 | 2 | -231.9 | 2.7 | 2 | 11367 |
| 1 | 17 | 2262 | 1.983 | 34.648 | 2 | 144.00 | 2 | -230.8 | 2.5 | 2 | 11366 |

Station 47

| | | Latitude | | 11.158°N | | Date | | 10/23/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.331°E | | Bottom Depth | | 5809 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 17 | 29.123 | 34.146 | 2 | 1.10 | 2 | 100.1 | 3.9 | 2 | 11216 |
| 2 | 35 | 62 | 26.984 | 34.713 | 2 | 0.90 | 2 | 115.6 | 6.1 | 2 | 11215 |
| 2 | 34 | 110 | 23.484 | 35.079 | 2 | 1.50 | 2 | 124.8 | 5.4 | 2 | 11214 |
| 2 | 33 | 159 | 18.176 | 34.848 | 2 | 4.80 | 2 | 118.9 | 3.6 | 2 | 11213 |
| 2 | 32 | 209 | 13.387 | 34.513 | 2 | 15.20 | 2 | 61.8 | 4.8 | 2 | 11212 |

Station 47 (Continued)

| | | Latitude | | 11.158°N | | Date | | 10/23/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.331°E | | Bottom Depth | | 5809 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 31 | 309 | 9.170 | 34.332 | 2 | 36.00 | 2 | -43.8 | 3.5 | 2 | 11210 |
| 2 | 30 | 410 | 7.765 | 34.458 | 2 | 49.20 | 2 | -105.7 | 4.0 | 2 | 11209 |
| 2 | 29 | 508 | 6.849 | 34.474 | 2 | 56.90 | 2 | -134.8 | 7.3 | 2 | 11208 |
| 2 | 28 | 610 | 6.153 | 34.498 | 2 | 64.10 | 2 | -138.3 | 3.2 | 2 | 11207 |
| 2 | 27 | 709 | 5.663 | 34.519 | 2 | 71.30 | 2 | -154.4 | 3.6 | 2 | 11206 |
| 2 | 26 | 808 | 5.218 | 34.528 | 2 | 79.30 | 2 | -178.3 | 5.9 | 2 | 11205 |
| 2 | 24 | 1010 | 4.358 | 34.548 | 2 | 95.40 | 2 | -189.3 | 3.0 | 2 | 11204 |
| 2 | 23 | 1210 | 3.680 | 34.572 | 2 | 108.90 | 2 | -204.4 | 3.3 | 2 | 11203 |
| 2 | 22 | 1411 | 3.089 | 34.588 | 2 | 120.70 | 2 | -216.6 | 3.8 | 2 | 11202 |
| 3 | 81 | 1473 | 2.973 | 34.595 | 2 | 125.56 | 2 | -220.6 | 2.1 | 2 | |
| 2 | 20 | 1613 | 2.641 | 34.609 | 2 | 129.60 | 2 | -225.5 | 3.1 | 2 | 11201 |
| 3 | 82 | 1721 | 2.468 | 34.618 | 2 | 135.45 | 2 | -228.6 | 2.3 | 2 | |
| 2 | 19 | 1814 | 2.339 | 34.626 | 2 | 134.80 | 2 | -227.0 | 2.7 | 2 | 11163 |
| 3 | 83 | 1975 | 2.216 | 34.635 | 2 | 140.24 | 2 | -232.1 | 1.8 | 2 | |
| 3 | 84 | 2233 | 2.010 | 34.645 | 2 | 142.90 | 2 | -235.2 | 1.5 | 2 | |
| 3 | 85 | 2484 | 1.833 | 34.656 | 2 | 145.57 | 2 | -232.9 | 2.5 | 2 | |
| 3 | 87 | 2725 | 1.737 | 34.663 | 2 | 146.76 | 2 | -233.8 | 2.5 | 2 | |
| 3 | 89 | 2986 | 1.638 | 34.669 | 2 | 146.89 | 2 | -226.7 | 2.2 | 2 | |
| 3 | 90 | 3233 | 1.588 | 34.675 | 2 | 147.44 | 2 | -225.7 | 2.4 | 2 | |
| 3 | 93 | 3499 | 1.533 | 34.678 | 2 | 145.25 | 2 | -223.0 | 1.3 | 2 | |
| 1 | 81 | 3834 | 1.516 | 34.682 | 2 | 142.70 | 2 | -222.3 | 2.0 | 2 | |
| 1 | 82 | 4088 | 1.490 | 34.685 | 2 | 140.62 | 2 | -212.4 | 2.5 | 2 | |
| 1 | 83 | 4343 | 1.446 | 34.690 | 2 | 138.83 | 2 | -212.8 | 2.3 | 2 | |
| 1 | 84 | 4598 | 1.437 | 34.693 | 2 | 136.59 | 2 | -207.0 | 2.5 | 2 | |
| 1 | 85 | 4856 | 1.449 | 34.695 | 2 | 135.12 | 2 | -206.8 | 2.5 | 2 | |
| 1 | 89 | 5366 | 1.480 | 34.697 | 2 | 133.69 | 2 | -199.8 | 2.3 | 2 | |
| 1 | 90 | 5621 | 1.510 | 34.698 | 2 | 133.28 | 2 | -198.7 | 2.5 | 2 | |
| 1 | 93 | 5879 | 1.540 | 34.698 | 2 | 131.80 | 2 | -201.7 | 2.6 | 2 | |

Station 50

| | | Latitude | | 13.167°N | | Date | | 10/25/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5959 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 18 | 29.452 | 34.541 | 2 | 1.10 | 2 | 103.9 | 3.2 | 2 | 11967 |
| 1 | 35 | 48 | 29.259 | 34.576 | 2 | 1.10 | 2 | 106.6 | 6.6 | 2 | 11942 |
| 1 | 34 | 96 | 26.446 | 34.833 | 2 | 0.90 | 2 | 107.5 | 5.7 | 2 | 11941 |
| 1 | 33 | 146 | 23.979 | 35.010 | 2 | 1.10 | 2 | 117.5 | 5.8 | 2 | 11940 |
| 1 | 32 | 197 | 19.290 | 34.924 | 2 | 3.70 | 2 | 127.1 | 5.9 | 2 | 11939 |
| 1 | 31 | 246 | 13.652 | 34.499 | 2 | 11.80 | 2 | 103.7 | 5.9 | 2 | 11938 |

Station 50 (Continued)

| | | Latitude | | 13.167°N | | Date | | 10/25/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5959 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 30 | 298 | 11.386 | 34.332 | 2 | 21.00 | 2 | 44.9 | 6.8 | 2 | 12508 |
| 1 | 29 | 348 | 9.766 | 34.316 | 2 | 32.00 | 2 | -8.9 | 4.4 | 2 | 11936 |
| 1 | 28 | 398 | 8.541 | 34.340 | 2 | 42.50 | 2 | -62.4 | 3.8 | 2 | 11935 |
| 1 | 27 | 496 | 7.086 | 34.424 | 2 | 58.00 | 2 | -120.8 | 3.8 | 2 | 11933 |
| 1 | 26 | 597 | 6.245 | 34.469 | 2 | 67.60 | 2 | -145.8 | 3.4 | 2 | 11932 |
| 1 | 25 | 693 | 5.656 | 34.493 | 2 | 75.80 | 2 | -157.7 | 4.6 | 2 | 11809 |
| 1 | 24 | 795 | 5.152 | 34.510 | 2 | 84.00 | 2 | -170.0 | 3.6 | 2 | 11808 |
| 1 | 23 | 896 | 4.666 | 34.526 | 2 | 93.00 | 2 | -184.1 | 3.4 | 2 | 11807 |
| 1 | 22 | 994 | 4.269 | 34.542 | 2 | 101.00 | 2 | -193.9 | 4.0 | 2 | 11804 |
| 1 | 21 | 1197 | 3.587 | 34.561 | 2 | 114.20 | 2 | -199.6 | 3.7 | 2 | 11803 |

Station 53

| | | Latitude | | 15.167°N | | Date | | 10/26/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5677 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 10 | 28.985 | 34.292 | 2 | 1.10 | 2 | 108.4 | 4.1 | 2 | 11581 |
| 1 | 35 | 53 | 29.007 | 34.397 | 2 | 1.10 | 2 | 107.9 | 4.3 | 2 | 11580 |
| 1 | 34 | 102 | 26.928 | 34.862 | 2 | 0.90 | 2 | 111.7 | 3.7 | 2 | 11579 |
| 1 | 33 | 152 | 24.800 | 35.111 | 2 | 1.10 | 2 | 121.1 | 3.3 | 2 | 11578 |
| 1 | 32 | 200 | 21.623 | 35.130 | 2 | 1.90 | 2 | 124.1 | 3.3 | 2 | 11577 |
| 1 | 31 | 249 | 17.333 | 34.815 | 2 | 4.90 | 2 | 118.3 | 3.1 | 2 | 11576 |
| 1 | 30 | 299 | 13.340 | 34.459 | 2 | 13.30 | 2 | 80.8 | 3.6 | 2 | 11426 |
| 1 | 29 | 348 | 10.440 | 34.309 | 2 | 26.70 | 2 | 15.8 | 3.3 | 2 | 11425 |
| 1 | 28 | 398 | 9.177 | 34.283 | 2 | 35.80 | 2 | -34.4 | 4.7 | 2 | 11424 |
| 1 | 27 | 458 | 7.601 | 34.292 | 2 | 51.40 | 2 | -83.4 | 4.3 | 2 | 11423 |
| 1 | 26 | 498 | 7.284 | 34.362 | 2 | 55.90 | 2 | -110.6 | 3.7 | 2 | 11422 |
| 1 | 25 | 550 | 6.729 | 34.420 | 2 | 62.60 | 2 | -122.8 | 3.2 | 2 | 11421 |
| 1 | 24 | 599 | 6.373 | 34.438 | 2 | 66.80 | 2 | -131.8 | 3.1 | 2 | 11420 |
| 1 | 22 | 805 | 5.253 | 34.499 | 2 | 82.20 | 2 | -162.4 | 3.6 | 2 | 11419 |
| 1 | 20 | 998 | 4.361 | 34.533 | 2 | 98.60 | 2 | -186.7 | 2.9 | 2 | 11418 |
| 1 | 18 | 1492 | 2.886 | 34.588 | 2 | 128.10 | 2 | -221.7 | 2.9 | 2 | 11417 |

Station 56

| | | Latitude | | 17.167°N | | Date | | 10/27/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5391 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 11 | 28.884 | 34.939 | 2 | 0.50 | 2 | 119.5 | 4.2 | 2 | 11707 |
| 2 | 34 | 97 | 24.963 | 35.121 | 2 | 1.00 | 2 | 125.5 | 4.2 | 2 | 11706 |
| 2 | 33 | 146 | 22.176 | 35.107 | 2 | 1.40 | 2 | 113.1 | 3.2 | 2 | 11705 |
| 2 | 32 | 197 | 19.012 | 34.953 | 2 | 2.60 | 2 | 105.5 | 6.1 | 2 | 11704 |
| 2 | 31 | 246 | 17.629 | 34.843 | 2 | 3.60 | 2 | 114.7 | 4.2 | 2 | 11593 |
| 2 | 30 | 298 | 15.100 | 34.624 | 2 | 7.90 | 2 | 104.4 | 3.3 | 2 | 11592 |
| 2 | 29 | 401 | 10.565 | 34.264 | 2 | 22.00 | 2 | 38.3 | 3.2 | 2 | 11591 |
| 2 | 28 | 500 | 7.932 | 34.205 | 2 | 44.80 | 2 | -59.6 | 2.9 | 2 | 11590 |
| 2 | 27 | 595 | 6.382 | 34.282 | 2 | 66.40 | 2 | -135.6 | 5.4 | 2 | 11863 |
| 2 | 26 | 693 | 5.646 | 34.387 | 3 | 78.30 | 2 | -159.8 | 3.2 | 2 | 11588 |
| 2 | 25 | 795 | 5.172 | 34.463 | 3 | 85.80 | 2 | -170.2 | 2.7 | 2 | 11587 |
| 2 | 24 | 897 | 4.679 | 34.497 | 2 | 94.20 | 2 | -189.1 | 2.8 | 2 | 11586 |
| 2 | 23 | 998 | 4.241 | 34.518 | 2 | 102.20 | 2 | -193.8 | 3.0 | 2 | 11585 |
| 2 | 22 | 1095 | 3.987 | 34.536 | 2 | 107.00 | 2 | -192.4 | 3.4 | 2 | 11584 |
| 2 | 21 | 1199 | 3.685 | 34.544 | 2 | 113.30 | 2 | -205.1 | 2.9 | 2 | 11583 |
| 2 | 20 | 1394 | 3.118 | 34.568 | 2 | 124.50 | 2 | -218.2 | 2.8 | 2 | 11582 |
| 3 | 81 | 1604 | 2.689 | 34.589 | 2 | 133.29 | 2 | -230.5 | 2.1 | 2 | |
| 3 | 82 | 1805 | 2.360 | 34.603 | 2 | 139.36 | 2 | -231.6 | 2.0 | 2 | |
| 3 | 83 | 2001 | 2.133 | 34.618 | 2 | 143.17 | 2 | -233.5 | 2.2 | 2 | |
| 3 | 84 | 2205 | 1.947 | 34.633 | 2 | 146.64 | 2 | -233.5 | 2.1 | 2 | |
| 3 | 85 | 2412 | 1.804 | 34.648 | 2 | 148.55 | 2 | -234.7 | 1.5 | 2 | |
| 3 | 87 | 2615 | 1.731 | 34.655 | 2 | 149.08 | 2 | -235.3 | 1.4 | 2 | |
| 3 | 89 | 2810 | 1.669 | 34.662 | 2 | 149.43 | 2 | -229.3 | 2.1 | 2 | |
| 3 | 90 | 3016 | 1.605 | 34.667 | 2 | 149.26 | 2 | -233.9 | 2.0 | 2 | |
| 3 | 93 | 3227 | 1.579 | 34.671 | 2 | 148.93 | 2 | -229.6 | 2.0 | 2 | |
| 1 | 81 | 3408 | 1.564 | 34.675 | 2 | 147.82 | 2 | -228.6 | 2.7 | 2 | |
| 1 | 82 | 3660 | 1.519 | 34.679 | 2 | 146.09 | 2 | -224.6 | 2.3 | 2 | |
| 1 | 83 | 3904 | 1.483 | 34.685 | 2 | 144.02 | 2 | -216.6 | 2.5 | 2 | |
| 1 | 84 | 4158 | 1.465 | 34.687 | 2 | 141.78 | 2 | -213.9 | 2.3 | 2 | |
| 1 | 85 | 4452 | 1.446 | 34.691 | 2 | 139.20 | 2 | -212.8 | 2.5 | 2 | |
| 1 | 87 | 4681 | 1.432 | 34.693 | 2 | 136.28 | 2 | -206.8 | 2.2 | 2 | |
| 1 | 89 | 4967 | 1.445 | 34.695 | 2 | 134.90 | 2 | -201.8 | 2.1 | 2 | |
| 1 | 90 | 5224 | 1.456 | 34.696 | 2 | 133.36 | 2 | -199.4 | 2.1 | 2 | |
| 1 | 93 | 5451 | 1.489 | 34.698 | 2 | 131.47 | 2 | -199.5 | 2.1 | 2 | |

Station 59

| | | Latitude | | 19.167°N | | Date | | 10/28/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5550 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 28.752 | 34.728 | 2 | 0.70 | 2 | 107.5 | 3.8 | 2 | 11162 |
| 1 | 34 | 51 | 28.758 | 34.728 | 2 | 0.80 | 2 | 102.1 | 4.0 | 2 | 11161 |
| 1 | 33 | 100 | 25.913 | 35.059 | 2 | 0.80 | 2 | 121.6 | 3.9 | 2 | 11160 |
| 1 | 32 | 150 | 23.509 | 35.127 | 2 | 1.00 | 2 | 122.9 | 3.9 | 2 | 11159 |
| 1 | 31 | 200 | 19.400 | 34.984 | 2 | 2.60 | 2 | 119.1 | 3.4 | 2 | 11158 |
| 1 | 30 | 249 | 17.482 | 34.825 | 2 | 3.80 | 2 | 117.7 | 3.4 | 2 | 11157 |
| 1 | 29 | 298 | 15.830 | 34.681 | 2 | 6.20 | 2 | 113.1 | 3.6 | 2 | 11143 |
| 1 | 28 | 347 | 14.242 | 34.517 | 2 | 9.80 | 2 | 96.4 | 3.3 | 2 | 11142 |
| 1 | 27 | 397 | 12.027 | 34.353 | 2 | 15.70 | 2 | 76.2 | 3.1 | 2 | 11141 |
| 1 | 26 | 496 | 8.759 | 34.167 | 2 | 35.10 | 2 | -4.6 | 3.2 | 2 | 11140 |
| 1 | 25 | 596 | 6.757 | 34.156 | 2 | 57.80 | 2 | -81.5 | 2.8 | 2 | 11139 |
| 1 | 24 | 695 | 5.585 | 34.264 | 2 | 78.00 | 2 | -140.5 | 2.4 | 2 | 11138 |
| 1 | 23 | 796 | 4.903 | 34.363 | 2 | 91.50 | 2 | -166.8 | 2.4 | 2 | 11137 |
| 1 | 22 | 900 | 4.481 | 34.431 | 2 | 99.50 | 2 | -183.2 | 2.4 | 2 | 11136 |
| 1 | 21 | 1000 | 4.025 | 34.491 | 2 | 107.70 | 2 | -194.7 | 3.5 | 2 | 11089 |
| 1 | 20 | 1203 | 3.368 | 34.540 | 2 | 120.30 | 2 | -210.8 | 2.7 | 2 | 11088 |

Station 62

| | | Latitude | | 21.167°N | | Date | | 10/29/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5389 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 22 | 28.433 | 34.859 | 2 | 0.70 | 2 | 117.7 | 5.2 | 2 | 11555 |
| 1 | 35 | 47 | 28.445 | 34.868 | 2 | 0.70 | 2 | 117.9 | 4.3 | 2 | 11554 |
| 1 | 34 | 96 | 24.880 | 35.051 | 2 | 1.00 | 2 | 117.7 | 4.7 | 2 | 11553 |
| 1 | 33 | 142 | 21.060 | 35.008 | 2 | 1.70 | 2 | 119.6 | 3.7 | 2 | 11552 |
| 1 | 32 | 200 | 18.481 | 34.875 | 2 | 3.10 | 2 | 137.7 | 5.3 | 2 | 11551 |
| 1 | 31 | 249 | 17.250 | 34.793 | 2 | 4.10 | 2 | 141.9 | 3.9 | 2 | 11550 |
| 1 | 30 | 299 | 15.975 | 34.693 | 2 | 6.30 | 2 | 127.9 | 9.0 | 2 | 11549 |
| 1 | 29 | 397 | 12.766 | 34.416 | 2 | 13.90 | 2 | 100.1 | 5.4 | 2 | 11548 |
| 1 | 28 | 497 | 9.720 | 34.212 | 2 | 27.50 | 2 | 48.4 | 3.7 | 2 | 11547 |
| 1 | 27 | 598 | 7.038 | 34.172 | 4 | 72.20 | 4 | -72.2 | 3.3 | 2 | 11546 |
| 1 | 26 | 702 | 5.804 | 34.142 | 2 | 70.60 | 2 | -108.7 | 2.5 | 2 | 13901 |
| 1 | 25 | 796 | 4.782 | 34.248 | 2 | 92.30 | 2 | -161.1 | 2.4 | 2 | 13902 |
| 1 | 24 | 897 | 4.349 | 34.349 | 2 | 103.00 | 2 | -154.6 | 3.1 | 2 | 11543 |
| 1 | 23 | 992 | 4.018 | 34.422 | 2 | 109.80 | 2 | -171.1 | 4.1 | 2 | 11542 |
| 1 | 22 | 1095 | 3.578 | 34.476 | 2 | 118.80 | 2 | -195.2 | 3.6 | 2 | 11541 |
| 1 | 20 | 1407 | 2.718 | 34.556 | 2 | 134.30 | 2 | -211.1 | 3.1 | 2 | 11540 |

Station 65

| | | Latitude | | 23.181°N | | Date | | 10/30/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.339°E | | Bottom Depth | | 5797 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 36 | 16 | 27.303 | 35.011 | 2 | 0.90 | 2 | 120.2 | 3.4 | 2 | 11253 |
| 3 | 35 | 60 | 26.793 | 35.012 | 2 | 1.10 | 2 | 118.6 | 2.6 | 6 | 11252 |
| | | | | | | | | | | | 11394 |
| 3 | 34 | 109 | 20.281 | 34.946 | 2 | 1.60 | 2 | 130.4 | 3.4 | 2 | 11251 |
| 3 | 33 | 156 | 18.676 | 34.886 | 2 | 2.50 | 2 | 134.6 | 2.5 | 6 | 11240 |
| | | | | | | | | | | | 11607 |
| 3 | 32 | 208 | 17.462 | 34.808 | 2 | 3.10 | 2 | 127.6 | 3.3 | 2 | 11239 |
| 3 | 30 | 310 | 16.021 | 34.700 | 2 | 6.40 | 2 | 114.9 | 3.3 | 2 | 11238 |
| 3 | 28 | 406 | 12.966 | 34.440 | 2 | 13.70 | 2 | 86.3 | 3.3 | 2 | 11237 |
| 3 | 27 | 508 | 10.281 | 34.252 | 2 | 25.00 | 2 | 39.5 | 3.3 | 2 | 11236 |
| 3 | 26 | 609 | 7.666 | 34.113 | 2 | 45.10 | 2 | -28.8 | 5.3 | 2 | 11235 |
| 3 | 25 | 705 | 5.518 | 34.106 | 2 | 73.90 | 2 | -95.9 | 3.0 | 2 | 11234 |
| 3 | 24 | 800 | 4.766 | 34.185 | 2 | 91.60 | 2 | -142.0 | 2.8 | 2 | 11233 |
| 3 | 23 | 904 | 4.157 | 34.265 | 2 | 106.90 | 2 | -159.3 | 3.1 | 2 | 11228 |
| 3 | 22 | 1006 | 3.669 | 34.353 | 2 | 119.90 | 2 | -182.3 | 3.0 | 2 | 11227 |
| 3 | 21 | 1160 | 3.224 | 34.450 | 2 | 129.30 | 2 | -204.3 | 3.7 | 2 | 11219 |
| 3 | 20 | 1261 | 2.871 | 34.476 | 2 | 140.00 | 2 | -212.9 | 3.4 | 2 | 11218 |
| 3 | 19 | 1411 | 2.593 | 34.526 | 2 | 143.50 | 2 | -221.0 | 3.1 | 2 | 11217 |
| 3 | 81 | 1569 | 2.356 | 34.560 | 2 | 146.04 | 2 | -226.7 | 2.1 | 2 | |
| 3 | 82 | 1821 | 2.052 | 34.603 | 2 | 147.50 | 2 | -239.4 | 2.0 | 2 | |
| 1 | 81 | 3841 | 1.476 | 34.682 | 2 | 145.21 | 2 | -222.0 | 2.0 | 2 | |
| 1 | 82 | 4090 | 1.462 | 34.684 | 2 | 143.78 | 2 | -215.0 | 2.1 | 2 | |
| 1 | 83 | 4337 | 1.465 | 34.688 | 2 | 142.01 | 2 | -215.0 | 2.2 | 2 | |
| 1 | 84 | 4593 | 1.459 | 34.691 | 2 | 140.59 | 2 | -206.3 | 2.1 | 2 | |
| 1 | 85 | 4853 | 1.469 | 34.693 | 2 | 138.47 | 2 | -209.9 | 2.1 | 2 | |
| 1 | 87 | 5115 | 1.473 | 34.694 | 2 | 136.89 | 2 | -203.9 | 2.5 | 2 | |
| 1 | 89 | 5375 | 1.499 | 34.696 | 2 | 135.12 | 2 | -198.9 | 2.4 | 2 | |
| 1 | 90 | 5636 | 1.516 | 34.697 | 2 | 132.83 | 2 | -197.1 | 1.7 | 2 | |
| 1 | 93 | 5892 | 1.530 | 34.699 | 2 | 131.24 | 2 | -197.4 | 1.7 | 2 | |

Station 66

| | | Latitude | | 23.833°N | | Date | | 10/31/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5835 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 894 | 4.015 | 34.258 | 2 | 109.60 | 2 | -176.5 | 3.5 | 2 | 11723 |
| 1 | 23 | 996 | 3.681 | 34.359 | 2 | 118.90 | 2 | -199.9 | 3.0 | 2 | 11722 |
| 1 | 22 | 1197 | 3.080 | 34.451 | 2 | 133.90 | 2 | -211.6 | 3.3 | 2 | 11721 |
| 1 | 21 | 1393 | 2.614 | 34.523 | 2 | 142.60 | 2 | -215.8 | 4.5 | 2 | 11720 |
| 1 | 20 | 1594 | 2.263 | 34.566 | 2 | 147.60 | 2 | -229.4 | 2.6 | 2 | 11719 |

Station 66 (Continued)

| | | Latitude | | 23.833°N | | Date | | 10/31/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5835 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 19 | 1796 | 2.054 | 34.595 | 2 | 149.50 | 2 | -225.6 | 2.2 | 2 | 11718 |
| 1 | 18 | 1998 | 1.901 | 34.621 | 2 | 148.60 | 2 | -226.1 | 6.2 | 2 | 11717 |
| 1 | 17 | 2196 | 1.785 | 34.633 | 2 | 150.50 | 2 | -219.5 | 3.0 | 2 | 12008 |
| 1 | 16 | 2396 | 1.710 | 34.645 | 2 | 149.50 | 2 | -237.0 | 4.7 | 2 | 11715 |
| 1 | 15 | 2599 | 1.647 | 34.652 | 2 | 149.80 | 2 | -243.3 | 4.8 | 2 | 11714 |
| 1 | 14 | 2800 | 1.598 | 34.659 | 2 | 149.50 | 2 | -238.8 | 3.3 | 2 | 11713 |
| 1 | 13 | 2986 | 1.562 | 34.665 | 2 | 148.60 | 2 | -230.4 | 2.0 | 2 | 11712 |
| 1 | 12 | 3249 | 1.531 | 34.670 | 2 | 148.10 | 2 | -226.3 | 3.6 | 2 | 11711 |
| 1 | 11 | 3476 | 1.507 | 34.677 | 2 | 146.60 | 2 | -211.8 | 3.0 | 2 | 11710 |
| 1 | 10 | 3741 | 1.487 | 34.680 | 2 | 146.10 | 2 | -215.7 | 3.4 | 2 | 11709 |

Station 68

| | | Latitude | | 25.167°N | | Date | | 11/1/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5903 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 26.937 | 35.134 | 2 | 1.60 | 2 | 110.3 | 3.2 | 2 | 11468 |
| 1 | 35 | 50 | 26.890 | 35.133 | 2 | 1.60 | 2 | 119.0 | 4.4 | 2 | 11467 |
| 1 | 34 | 100 | 20.383 | 34.959 | 2 | 2.10 | 2 | 115.5 | 4.3 | 2 | 11466 |
| 1 | 33 | 149 | 18.512 | 34.877 | 2 | 2.80 | 2 | 119.8 | 4.5 | 2 | 11465 |
| 1 | 32 | 199 | 17.448 | 34.809 | 2 | 3.70 | 2 | 115.1 | 3.4 | 2 | 11464 |
| 1 | 31 | 249 | 16.758 | 34.762 | 2 | 4.90 | 2 | 113.0 | 4.0 | 2 | 11463 |
| 1 | 30 | 299 | 15.630 | 34.672 | 2 | 7.50 | 2 | 117.0 | 3.1 | 6 | 11462 |
| 1 | 29 | 353 | 14.465 | 34.564 | 2 | 10.60 | 2 | 97.0 | 3.3 | 2 | 11745 |
| 1 | 28 | 399 | 13.222 | 34.454 | 2 | 13.70 | 2 | 83.9 | 3.8 | 2 | 11461 |
| 1 | 27 | 498 | 10.716 | 34.273 | 2 | 22.60 | 2 | 44.8 | 3.6 | 2 | 11460 |
| 1 | 26 | 597 | 7.556 | 34.089 | 2 | 45.10 | 2 | -27.0 | 3.2 | 2 | 11451 |
| 1 | 25 | 697 | 5.597 | 34.065 | 2 | 70.00 | 2 | -93.3 | 3.2 | 2 | 11450 |
| 1 | 24 | 797 | 4.698 | 34.140 | 2 | 90.60 | 2 | -136.5 | 3.1 | 2 | 11449 |
| 1 | 23 | 896 | 4.250 | 34.211 | 2 | 101.90 | 2 | -163.5 | 4.8 | 2 | 11448 |
| 1 | 22 | 997 | 3.628 | 34.340 | 3 | 122.00 | 2 | -196.2 | 3.0 | 2 | 11447 |
| 1 | 20 | 1398 | 2.614 | 34.512 | 2 | 146.00 | 2 | -229.7 | 2.9 | 2 | 11446 |

Station 71

| | | Latitude | | 25.167°N | | Date | | 11/1/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 149.333°E | | Bottom Depth | | 5903 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 26.024 | 35.115 | 2 | 2.00 | 2 | 116.5 | 3.3 | 2 | 10837 |
| 1 | 35 | 49 | 25.889 | 35.102 | 2 | 2.40 | 2 | 118.4 | 3.4 | 2 | 10836 |
| 1 | 34 | 99 | 19.812 | 34.913 | 2 | 2.90 | 2 | 117.0 | 4.1 | 2 | 10835 |
| 1 | 33 | 148 | 17.932 | 34.840 | 2 | 3.60 | 2 | 130.3 | 3.4 | 2 | 10834 |
| 1 | 32 | 199 | 17.301 | 34.800 | 2 | 4.30 | 2 | 124.4 | 3.6 | 2 | 10833 |
| 1 | 31 | 249 | 16.776 | 34.766 | 2 | 5.30 | 2 | 109.8 | 3.4 | 2 | 10832 |
| 1 | 30 | 299 | 16.277 | 34.724 | 2 | 6.40 | 2 | 107.4 | 3.6 | 6 | 10831 |
| | | | | | | | | | | | 11033 |
| 1 | 29 | 398 | 14.077 | 34.539 | 2 | 13.20 | 2 | 88.5 | 3.3 | 2 | 10830 |
| 1 | 28 | 497 | 11.193 | 34.327 | 2 | 22.90 | 2 | 42.4 | 3.2 | 2 | 10829 |
| 1 | 27 | 596 | 8.528 | 34.140 | 2 | 38.50 | 2 | -6.5 | 3.5 | 2 | 10828 |
| 1 | 26 | 698 | 5.860 | 34.050 | 2 | 66.00 | 2 | -83.9 | 3.0 | 2 | 10827 |
| 1 | 25 | 797 | 4.782 | 34.127 | 2 | 88.70 | 2 | -129.1 | 4.1 | 6 | 10826 |
| | | | | | | | | | | | 11051 |
| 1 | 24 | 897 | 4.258 | 34.230 | 2 | 104.30 | 2 | -158.8 | 3.8 | 2 | 10825 |
| 1 | 23 | 992 | 3.868 | 34.294 | 2 | 115.30 | 2 | -177.1 | 2.4 | 2 | 10752 |
| 1 | 22 | 1196 | 3.255 | 34.410 | 2 | 131.60 | 2 | -207.3 | 2.5 | 2 | 10751 |
| 1 | 21 | 1396 | 2.748 | 34.498 | 2 | 142.70 | 2 | -224.6 | 2.4 | 2 | 10750 |

Station 74

| | | Latitude | | 29.158°N | | Date | | 11/3/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|-------------------------------------|----------|---|-------|
| | | Longitude | | 149.286°E | | Bottom Depth | | 5972 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ^a ‰ | Err ‰ | F | OS# |
| 3 | 36 | 16 | 25.536 | 35.014 | 2 | 1.80 | 2 | 134.7 | 4.5 | 2 | 11539 |
| 3 | 34 | 95 | 19.857 | 34.855 | 2 | 3.30 | 2 | 139.4 | 7.2 | 2 | 11538 |
| 3 | 32 | 195 | 17.770 | 34.824 | 2 | 3.30 | 2 | 131.9 | 5.1 | 2 | 11537 |
| 3 | 30 | 295 | 17.100 | 34.794 | 2 | 4.10 | 2 | 113.4 | 6.5 | 2 | 12509 |
| 3 | 29 | 396 | 15.424 | 34.483 | 4 | 40.70 | 4 | 19.7 | 3.1 | 4 | 11392 |
| 3 | 28 | 495 | 12.692 | 34.441 | 2 | 17.90 | 2 | 58.0 | 3.9 | 2 | 11391 |
| 3 | 27 | 596 | 9.812 | 34.231 | 2 | 29.20 | 2 | 12.0 | 3.0 | 2 | 11390 |
| 3 | 26 | 696 | 7.116 | 34.068 | 2 | 49.30 | 2 | -43.6 | 4.5 | 2 | 11389 |
| 3 | 25 | 794 | 5.145 | 34.026 | 2 | 73.70 | 2 | -97.7 | 2.9 | 2 | 11388 |
| 3 | 24 | 898 | 4.427 | 34.151 | 2 | 96.40 | 2 | -142.6 | 3.2 | 2 | 11387 |
| 3 | 23 | 1000 | 3.950 | 34.244 | 2 | 111.80 | 2 | -163.9 | 3.0 | 2 | 11386 |
| 3 | 22 | 1187 | 3.254 | 34.367 | 2 | 132.60 | 2 | -193.9 | 3.6 | 2 | 11223 |
| 3 | 21 | 1399 | 2.732 | 34.458 | 2 | 147.50 | 2 | -219.5 | 2.9 | 2 | 11222 |
| 3 | 20 | 1602 | 2.361 | 34.524 | 2 | 156.40 | 2 | -223.7 | 2.9 | 2 | 11221 |
| 3 | 19 | 1806 | 2.123 | 34.571 | 2 | 159.00 | 2 | -233.0 | 3.0 | 2 | 11220 |
| 3 | 18 | 2007 | 1.950 | 34.599 | 2 | 160.20 | 2 | -235.1 | 4.0 | 2 | 11200 |

Station 74 (Continued)

| | | Latitude | | 29.158°N | | Date | | 11/3/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|-------------------------------------|----------|---|----------------|
| | | Longitude | | 149.286°E | | Bottom Depth | | 5972 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ^a ‰ | Err ‰ | F | OS# |
| 3 | 17 | 2199 | 1.835 | 34.624 | 2 | 154.00 | 2 | -225.3 | 3.8 | 2 | 11199 |
| 3 | 16 | 2400 | 1.747 | 34.638 | 2 | 152.90 | 2 | -237.9 | 3.2 | 2 | 11179 |
| 3 | 15 | 2599 | 1.683 | 34.648 | 2 | 152.70 | 2 | -234.1 | 3.6 | 6 | 11178 11267 |
| 3 | 14 | 2802 | 1.624 | 34.659 | 3 | 151.40 | 2 | -229.7 | 2.7 | 2 | 11177 |
| 3 | 12 | 3253 | 1.550 | 34.670 | 2 | 150.00 | 2 | -227.2 | 2.7 | 2 | 11176 |
| 3 | 11 | 3508 | 1.524 | 34.673 | 2 | 149.80 | 2 | -222.8 | 2.8 | 2 | 11175 |
| 3 | 10 | 3751 | 1.505 | 34.678 | 2 | 148.30 | 2 | -226.3 | 2.7 | 2 | 11174 |
| 3 | 9 | 4005 | 1.489 | 34.682 | 2 | 147.00 | 2 | -222.8 | 3.1 | 2 | 11173 |
| 1 | 81 | 4351 | 1.492 | 34.686 | 2 | 146.31 | 2 | -217.6 | 2.0 | 2 | |
| | | | | | | | | -217.3 | 4.3 | 2 | 11385 |
| 1 | 82 | 4661 | 1.478 | 34.689 | 2 | 144.45 | 2 | -212.5 | 2.1 | 2 | |
| | | | | | | | | -207.5 | 2.8 | 2 | 11384 |
| 1 | 88 | 4967 | 1.497 | 34.690 | 2 | 142.03 | 2 | -209.4 | 2.3 | 2 | |
| | | | | | | | | -207.6 | 2.6 | 2 | 11383 |
| 3 | 5 | 4996 | 1.506 | 34.690 | 2 | 142.20 | 2 | -207.5 | 2.9 | 2 | 11172 |
| 1 | 92 | 5273 | 1.523 | 34.692 | 2 | 139.99 | 2 | -203.0 | 2.2 | 2 | |
| | | | | | | | | -199.5 | 2.6 | 2 | 11382 |
| 1 | 94 | 5580 | 1.516 | 34.693 | 2 | 138.31 | 2 | -206.5 | 2.2 | 2 | |
| | | | | | | | | -198.0 | 2.8 | 2 | 11381 |
| 3 | 2 | 5753 | 1.569 | 34.694 | 2 | 137.80 | 2 | -203.8 | 3.8 | 2 | 11171 |
| 3 | 1 | 6087 | 1.601 | 34.695 | 2 | 136.30 | 2 | -199.7 | 2.7 | 2 | 11170 |

a. The second number any sample with two values listed was run by AMS

Station 76

| | | Latitude | | 30.189°N | | Date | | 11/4/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 148.047°E | | Bottom Depth | | 6181 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 24.651 | 34.779 | 2 | 1.40 | 2 | 118.2 | 3.6 | 2 | 11087 |
| 1 | 34 | 100 | 20.547 | 34.966 | 2 | 1.80 | 2 | 116.0 | 4.0 | 2 | 11086 |
| 1 | 33 | 149 | 18.463 | 34.875 | 2 | 2.30 | 2 | 112.2 | 4.2 | 2 | 11085 |
| 1 | 32 | 199 | 17.805 | 34.833 | 2 | 2.90 | 2 | 109.3 | 3.9 | 2 | 11084 |
| 1 | 31 | 295 | 17.066 | 34.787 | 2 | 4.00 | 2 | 114.1 | 4.9 | 2 | 11083 |
| 1 | 30 | 397 | 15.850 | 34.688 | 2 | 6.70 | 2 | 114.9 | 5.2 | 2 | 11082 |
| 1 | 29 | 499 | 13.537 | 34.495 | 2 | 13.40 | 2 | 84.4 | 3.6 | 2 | 11073 |
| 1 | 28 | 598 | 11.179 | 34.332 | 2 | 23.50 | 2 | 50.3 | 5.0 | 6 | 11072 11349 |
| 1 | 27 | 693 | 8.479 | 34.151 | 2 | 39.10 | 2 | -7.0 | 3.1 | 2 | 11071 |
| 1 | 26 | 798 | 5.824 | 34.023 | 2 | 63.10 | 2 | -52.4 | 4.8 | 2 | 11070 |

Station 76 (Continued)

| | | Latitude | | 30.189°N | | Date | | 11/4/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 148.047°E | | Bottom Depth | | 6181 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 25 | 899 | 4.762 | 34.079 | 2 | 84.60 | 2 | -108.0 | 3.6 | 2 | 11069 |
| 1 | 24 | 989 | 4.289 | 34.179 | 2 | 101.00 | 2 | -142.0 | 2.9 | 2 | 11068 |
| 1 | 23 | 1192 | 3.476 | 34.327 | 2 | 125.80 | 2 | -188.8 | 5.4 | 2 | 11067 |
| 1 | 22 | 1394 | 2.906 | 34.427 | 2 | 142.00 | 2 | -206.0 | 3.5 | 2 | 11066 |
| 1 | 21 | 1596 | 2.523 | 34.497 | 2 | 152.40 | 2 | -225.0 | 2.7 | 2 | 11065 |

Station 78

| | | Latitude | | 31.208°N | | Date | | 11/5/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 146.761°E | | Bottom Depth | | 6059 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 17 | 23.934 | 34.569 | 2 | 1.30 | 2 | 119.8 | 7.2 | 2 | 11600 |
| 1 | 35 | 62 | 24.024 | 34.687 | 2 | 1.50 | 2 | 120.9 | 5.5 | 2 | 11599 |
| 1 | 34 | 111 | 20.190 | 34.914 | 2 | 1.90 | 2 | 131.0 | 4.2 | 2 | 11598 |
| 1 | 33 | 161 | 18.589 | 34.849 | 2 | 2.60 | 2 | 120.0 | 3.9 | 2 | 11597 |
| 1 | 32 | 210 | 17.823 | 34.816 | 2 | 3.70 | 2 | 126.9 | 3.1 | 2 | 11596 |
| 1 | 31 | 260 | 17.323 | 34.789 | 2 | 4.20 | 2 | 123.0 | 6.8 | 6 | 11595 11686 |
| 1 | 30 | 310 | 16.904 | 34.761 | 2 | 5.30 | 2 | 118.2 | 3.4 | 2 | 11594 |
| 1 | 29 | 360 | 16.210 | 34.708 | 2 | 7.70 | 2 | 109.0 | 5.1 | 2 | 11575 |
| 1 | 28 | 409 | 15.097 | 34.626 | 2 | 11.20 | 2 | 100.6 | 3.9 | 2 | 11574 |
| 1 | 27 | 508 | 12.571 | 34.453 | 2 | 20.20 | 2 | 64.6 | 4.5 | 2 | 11573 |
| 1 | 26 | 608 | 10.286 | 34.303 | 2 | 32.20 | 2 | 27.8 | 3.2 | 2 | 11572 |
| 1 | 25 | 708 | 6.364 | 33.952 | 2 | 49.90 | 2 | -35.1 | 3.1 | 2 | 11571 |
| 1 | 24 | 808 | 5.160 | 34.031 | 2 | 73.80 | 2 | -85.3 | 3.6 | 2 | 11570 |
| 1 | 23 | 908 | 4.553 | 34.114 | 2 | 90.90 | 2 | -101.2 | 3.9 | 2 | 11569 |
| 1 | 22 | 1008 | 4.045 | 34.223 | 2 | 108.30 | 2 | -151.7 | 3.0 | 2 | 11436 |
| 1 | 20 | 1404 | 2.823 | 34.443 | 2 | 143.30 | 2 | -210.2 | 3.0 | 2 | 11435 |

Station 80

| | | Latitude | | 32.230°N | | Date | | 11/6/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 145.475°E | | Bottom Depth | | 5875 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 24.125 | 34.695 | 2 | 1.60 | 2 | 113.8 | 3.1 | 2 | 11005 |
| 1 | 34 | 94 | 22.013 | 34.770 | 2 | 2.40 | 2 | 116.2 | 2.8 | 2 | 11013 |
| 1 | 32 | 195 | 17.675 | 34.821 | 2 | 2.90 | 2 | 116.0 | 2.8 | 2 | 11012 |
| 1 | 30 | 299 | 17.320 | 34.802 | 2 | 3.30 | 2 | 126.8 | 4.0 | 2 | 11011 |
| 1 | 29 | 396 | 16.491 | 34.738 | 2 | 6.00 | 2 | 111.6 | 3.5 | 2 | 11156 |

Station 80 (Continued)

| | | Latitude | | 32.230°N | | | | Date | | 11/6/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 145.475°E | | | | Bottom Depth | | 5875 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 28 | 492 | 14.720 | 34.596 | 2 | 11.80 | 2 | 91.8 | 2.8 | 2 | 11010 |
| 1 | 27 | 596 | 11.634 | 34.378 | 2 | 23.90 | 2 | 43.2 | 2.7 | 2 | 11009 |
| 1 | 26 | 698 | 8.239 | 34.107 | 2 | 38.70 | 2 | -5.8 | 3.0 | 2 | 11008 |
| 1 | 23 | 994 | 4.281 | 34.185 | 2 | 101.40 | 2 | -145.3 | 3.7 | 2 | 11007 |
| 1 | 22 | 1194 | 3.548 | 34.324 | 2 | 124.10 | 2 | -188.8 | 2.3 | 2 | 11006 |
| 1 | 21 | 1392 | 2.998 | 34.414 | 2 | 139.40 | 2 | -211.8 | 2.9 | 2 | 11004 |
| 1 | 20 | 1591 | 2.623 | 34.475 | 2 | 150.10 | 2 | -222.8 | 2.6 | 2 | 11003 |
| 1 | 19 | 1795 | 2.356 | 34.522 | 2 | 156.50 | 2 | -235.2 | 2.7 | 2 | 11002 |
| 1 | 18 | 1996 | 2.139 | 34.565 | 2 | 159.90 | 2 | -234.6 | 2.4 | 2 | 11001 |
| 1 | 17 | 2194 | 1.998 | 34.596 | 2 | 157.40 | 3 | -233.4 | 2.2 | 2 | 11000 |
| 1 | 16 | 2397 | 1.863 | 34.617 | 2 | 157.80 | 3 | -258.9 | 2.1 | 4 | 10999 |
| 1 | 15 | 2604 | 1.738 | 34.633 | 2 | 159.20 | 2 | -230.0 | 2.2 | 2 | 10998 |
| 1 | 14 | 2806 | 1.665 | 34.646 | 2 | 157.50 | 2 | -234.3 | 2.6 | 2 | 10997 |
| 1 | 13 | 3004 | 1.618 | 34.655 | 2 | 156.30 | 2 | -230.8 | 2.1 | 2 | 10996 |
| 1 | 12 | 3252 | 1.564 | 34.663 | 2 | 154.10 | 2 | -228.8 | 2.1 | 2 | 10995 |
| 1 | 11 | 3506 | 1.526 | 34.670 | 2 | 152.70 | 2 | -227.4 | 2.1 | 2 | 10994 |
| 1 | 10 | 3750 | 1.496 | 34.676 | 2 | 151.30 | 2 | -224.3 | 2.2 | 2 | 10993 |
| 1 | 9 | 4004 | 1.482 | 34.681 | 2 | 149.70 | 2 | -222.5 | 2.6 | 2 | 10992 |
| 1 | 8 | 4258 | 1.478 | 34.684 | 2 | 148.50 | 2 | -215.6 | 2.2 | 2 | 10991 |
| 1 | 7 | 4504 | 1.480 | 34.686 | 2 | 147.30 | 2 | -218.0 | 2.9 | 2 | 10990 |
| 1 | 6 | 4760 | 1.490 | 34.688 | 2 | 145.90 | 2 | -209.9 | 2.2 | 2 | 10989 |
| 1 | 5 | 5003 | 1.504 | 34.690 | 2 | 144.10 | 2 | -209.9 | 2.2 | 2 | 10988 |
| 1 | 4 | 5257 | 1.526 | 34.690 | 2 | 143.10 | 2 | -209.4 | 2.2 | 2 | 10987 |
| 1 | 3 | 5501 | 1.552 | 34.691 | 2 | 142.20 | 2 | -207.9 | 2.2 | 2 | 10986 |
| 1 | 2 | 5747 | 1.579 | 34.692 | 2 | 141.50 | 2 | -200.7 | 2.2 | 2 | 10985 |

Station 83

| | | Latitude | | 33.667°N | | | | Date | | 11/6/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 143.667°E | | | | Bottom Depth | | 5608 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 15 | 23.107 | 34.629 | 2 | 1.50 | 2 | 107.9 | 3.4 | 2 | 11169 |
| 1 | 35 | 59 | 22.874 | 34.616 | 2 | 1.50 | 2 | 119.0 | 3.5 | 2 | 11168 |
| 1 | 34 | 109 | 21.147 | 34.762 | 2 | 2.20 | 2 | 120.2 | 2.7 | 6 | 11167 |
| | | | | | | | | | | | 11523 |
| 1 | 33 | 149 | 18.823 | 34.849 | 2 | 2.40 | 2 | 111.8 | 3.5 | 2 | 11166 |
| 1 | 32 | 199 | 17.785 | 34.828 | 2 | 2.90 | 2 | 123.0 | 3.5 | 2 | 11165 |
| 1 | 31 | 249 | 17.489 | 34.812 | 2 | 3.10 | 2 | 119.3 | 3.5 | 2 | 11164 |
| 1 | 30 | 304 | 17.319 | 34.803 | 2 | 3.40 | 2 | 109.3 | 4.6 | 2 | 11153 |
| 1 | 29 | 403 | 17.086 | 34.793 | 2 | 4.00 | 2 | 108.3 | 3.4 | 2 | 11152 |

Station 83 (Continued)

| | | Latitude | | 33.667°N | | | | Date | | 11/6/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 143.667°E | | | | Bottom Depth | | 5608 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 28 | 501 | 15.698 | 34.674 | 2 | 8.60 | 2 | 98.1 | 4.0 | 2 | 11151 |
| 1 | 27 | 600 | 13.134 | 34.478 | 2 | 16.20 | 2 | 70.2 | 3.4 | 2 | 11150 |
| 1 | 26 | 700 | 10.534 | 34.297 | 2 | 28.00 | 2 | 22.6 | 3.3 | 2 | 11149 |
| 1 | 25 | 800 | 8.337 | 34.211 | 2 | 47.20 | 2 | -37.9 | 3.1 | 2 | 11148 |
| 1 | 24 | 901 | 5.839 | 34.151 | 2 | 74.00 | 2 | -103.8 | 3.0 | 2 | 11147 |
| 1 | 23 | 1002 | 5.057 | 34.237 | 2 | 91.90 | 2 | -139.8 | 2.9 | 2 | 11146 |
| 1 | 22 | 1101 | 4.470 | 34.311 | 2 | 104.80 | 2 | -163.1 | 2.8 | 2 | 11145 |
| 1 | 21 | 1197 | 3.672 | 34.319 | 2 | 120.70 | 2 | -185.8 | 3.2 | 2 | 11144 |

Station 85

| | | Latitude | | 34.169°N | | | | Date | | 11/7/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 142.692°E | | | | Bottom Depth | | 5595 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 22 | 24.114 | 34.717 | 2 | 1.70 | 2 | 110.4 | 2.9 | 2 | 11966 |
| 1 | 35 | 47 | 24.105 | 34.717 | 2 | 1.80 | 2 | 119.2 | 4.1 | 2 | 11965 |
| 1 | 34 | 97 | 23.054 | 34.743 | 2 | 3.30 | 2 | 111.1 | 3.2 | 2 | 11964 |
| 1 | 33 | 147 | 19.395 | 34.857 | 2 | 2.50 | 2 | 117.8 | 3.7 | 2 | 11963 |
| 1 | 32 | 196 | 18.063 | 34.834 | 2 | 3.00 | 2 | 117.6 | 3.2 | 2 | 11962 |
| 1 | 31 | 246 | 17.536 | 34.813 | 2 | 3.20 | 2 | 114.3 | 3.2 | 2 | 11961 |
| 1 | 30 | 300 | 17.189 | 34.791 | 2 | 3.90 | 2 | 114.3 | 4.0 | 2 | 11960 |
| 1 | 29 | 400 | 15.385 | 34.648 | 2 | 9.50 | 2 | 108.1 | 4.2 | 2 | 11924 |
| 1 | 28 | 500 | 13.112 | 34.494 | 2 | 19.90 | 2 | 58.9 | 4.6 | 2 | 11931 |
| 1 | 27 | 607 | 10.660 | 34.320 | 2 | 28.90 | 2 | 30.6 | 4.9 | 6 | 11930 |
| | | | | | | | | | | | 12199 |
| 1 | 26 | 706 | 7.764 | 34.143 | 2 | 47.60 | 2 | -23.3 | 5.2 | 2 | 11929 |
| 1 | 25 | 806 | 5.723 | 34.031 | 2 | 65.20 | 2 | -63.0 | 3.6 | 2 | 11928 |
| 1 | 24 | 902 | 4.702 | 34.092 | 2 | 86.60 | 2 | -115.2 | 5.8 | 6 | 11927 |
| | | | | | | | | | | | 12277 |
| 1 | 23 | 997 | 4.154 | 34.221 | 2 | 105.90 | 2 | -165.2 | 3.3 | 2 | 12064 |
| 1 | 22 | 1090 | 3.817 | 34.276 | 2 | 116.00 | 2 | -163.2 | 4.0 | 2 | 11925 |
| 1 | 20 | 1405 | 3.079 | 34.450 | 2 | 133.70 | 2 | -205.2 | 4.1 | 2 | 11853 |

Station 88

| | | Latitude | | 34.725°N | | Date | | 11/8/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 141.611°E | | Bottom Depth | | 5285 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 16 | 23.224 | 34.745 | 2 | 2.10 | 2 | 110.2 | 2.8 | 2 | 13903 |
| 1 | 32 | 61 | 21.174 | 34.563 | 2 | 3.90 | 2 | 103.6 | 4.7 | 2 | 12003 |
| 1 | 31 | 110 | 18.882 | 34.615 | 2 | 8.80 | 2 | 99.9 | 4.7 | 2 | 12002 |
| 1 | 30 | 160 | 15.855 | 34.604 | 2 | 14.90 | 2 | 82.8 | 4.6 | 2 | 12001 |
| 1 | 29 | 208 | 13.846 | 34.523 | 2 | 21.90 | 2 | 62.0 | 4.7 | 2 | 12000 |
| 1 | 28 | 256 | 11.993 | 34.442 | 2 | 30.20 | 2 | 35.4 | 5.4 | 2 | 11999 |
| 1 | 27 | 301 | 11.131 | 34.401 | 2 | 34.80 | 2 | 15.2 | 5.3 | 2 | 11998 |
| 1 | 26 | 391 | 8.790 | 34.303 | 2 | 50.40 | 2 | -25.9 | 4.5 | 2 | 11997 |
| 1 | 25 | 503 | 6.045 | 34.271 | 2 | 80.90 | 2 | -105.9 | 4.2 | 2 | 11996 |
| 1 | 24 | 608 | 4.416 | 34.282 | 2 | 104.40 | 2 | -156.8 | 4.1 | 2 | 11995 |
| 1 | 23 | 715 | 3.689 | 34.315 | 2 | 119.70 | 2 | -180.4 | 4.1 | 2 | 11974 |
| 1 | 22 | 828 | 3.296 | 34.361 | 2 | 130.20 | 2 | -172.9 | 7.4 | 2 | 11973 |
| 1 | 20 | 1036 | 2.894 | 34.434 | 2 | 141.10 | 2 | -191.7 | 5.0 | 2 | 11972 |
| 1 | 19 | 1180 | 2.630 | 34.481 | 2 | 147.40 | 2 | -199.2 | 5.8 | 2 | 11971 |
| 1 | 18 | 1374 | 2.334 | 34.522 | 2 | 155.90 | 2 | -218.8 | 5.2 | 2 | 11970 |
| 1 | 17 | 1562 | 2.149 | 34.557 | 2 | 159.30 | 2 | -230.7 | 3.2 | 2 | 11969 |

Station 90

| | | Latitude | | 34.928°N | | Date | | 11/8/93 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 140.989°E | | Bottom Depth | | 3304 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 20.842 | 34.492 | 2 | 3.30 | 2 | 101.3 | 2.7 | 2 | 10975 |
| 1 | 24 | 49 | 20.331 | 34.509 | 2 | 4.90 | 2 | 100.9 | 2.6 | 2 | 10974 |
| 1 | 23 | 97 | 17.470 | 34.641 | 2 | 11.30 | 2 | 89.6 | 3.6 | 2 | 10973 |
| 1 | 22 | 147 | 14.334 | 34.569 | 2 | 18.90 | 2 | 68.9 | 4.2 | 2 | 10960 |
| 1 | 21 | 197 | 12.732 | 34.474 | 2 | 26.70 | 2 | 41.9 | 3.5 | 2 | 10959 |
| 1 | 20 | 246 | 10.897 | 34.390 | 2 | 36.40 | 2 | 1.6 | 4.3 | 6 | 10958 |
| | | | | | | | | | | | 11129 |
| 1 | 18 | 345 | 8.832 | 34.303 | 2 | 50.20 | 2 | -37.9 | 3.3 | 2 | 10957 |
| 1 | 17 | 396 | 7.650 | 34.270 | 2 | 60.50 | 2 | -71.9 | 6.5 | 6 | 10956 |
| | | | | | | | | | | | 11155 |
| 1 | 16 | 496 | 5.458 | 34.245 | 2 | 85.40 | 2 | -166.3 | 2.7 | 3 | 11081 |
| 1 | 15 | 596 | 4.410 | 34.319 | 2 | 105.00 | 2 | -161.9 | 3.1 | 2 | 11080 |
| 1 | 14 | 696 | 3.683 | 34.327 | 2 | 119.70 | 2 | -178.9 | 2.7 | 2 | 11079 |
| 1 | 13 | 796 | 3.433 | 34.365 | 2 | 125.70 | 2 | -186.8 | 2.8 | 2 | 11078 |
| 1 | 12 | 897 | 3.111 | 34.394 | 2 | 134.70 | 2 | -212.0 | 6.1 | 2 | 11077 |
| 1 | 11 | 996 | 2.852 | 34.425 | 2 | 142.10 | 2 | -209.0 | 2.7 | 2 | 11076 |
| 1 | 10 | 1198 | 2.589 | 34.469 | 2 | 149.80 | 2 | -212.4 | 2.7 | 2 | 11075 |
| 1 | 9 | 1399 | 2.338 | 34.519 | 2 | 156.00 | 2 | -222.1 | 3.4 | 2 | 11074 |

Station 90 (Continued)

| | | Latitude | | 34.928°N | | | | Date | | 11/8/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|----------------|
| | | Longitude | | 140.989°E | | | | Bottom Depth | | 3304 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 8 | 1597 | 2.194 | 34.547 | 2 | 159.00 | 2 | -231.9 | 2.6 | 2 | 11064 |
| 1 | 7 | 1798 | 2.040 | 34.577 | 2 | 160.20 | 2 | -236.5 | 2.7 | 2 | 11063 |
| 1 | 6 | 1998 | 1.896 | 34.603 | 2 | 160.00 | 2 | -235.3 | 3.1 | 2 | 11062 |
| 1 | 5 | 2189 | 1.794 | 34.622 | 2 | 158.90 | 2 | -236.3 | 2.7 | 2 | 11061 |
| 1 | 4 | 2395 | 1.711 | 34.635 | 2 | 158.20 | 2 | -230.4 | 3.6 | 6 | 11060 11805 |
| 1 | 3 | 2598 | 1.641 | 34.648 | 2 | 157.50 | 2 | -231.4 | 2.8 | 2 | 11059 |
| 1 | 2 | 2883 | 1.549 | 34.662 | 2 | 154.80 | 2 | -230.6 | 2.8 | 2 | 11058 |
| 1 | 1 | 3344 | 1.491 | 34.672 | 2 | 151.90 | 2 | -223.9 | 2.6 | 2 | 11057 |

Station 92

| | | Latitude | | 35.092°N | | | | Date | | 11/9/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 140.892°E | | | | Bottom Depth | | 1174 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 12 | 22.802 | 34.718 | 2 | 2.30 | 2 | 118.2 | 6.3 | 2 | 11736 |
| 1 | 15 | 56 | 21.892 | 34.766 | 2 | 3.50 | 2 | 116.1 | 3.7 | 2 | 11735 |
| 1 | 14 | 105 | 17.285 | 34.636 | 2 | 11.90 | 2 | 84.0 | 8.5 | 2 | 11734 |
| 1 | 13 | 155 | 13.649 | 34.510 | 2 | 20.30 | 2 | 60.1 | 4.1 | 2 | 11733 |
| 1 | 12 | 204 | 11.481 | 34.410 | 2 | 30.90 | 2 | 21.2 | 5.0 | 2 | 11732 |
| 1 | 11 | 253 | 9.944 | 34.321 | 2 | 38.40 | 2 | -4.8 | 4.5 | 2 | 11731 |
| 1 | 10 | 304 | 7.801 | 34.209 | 2 | 54.60 | 2 | -67.0 | 5.8 | 2 | 11703 |
| 1 | 9 | 353 | 6.106 | 34.097 | 2 | 66.00 | 2 | -70.1 | 3.4 | 2 | 11702 |
| 1 | 8 | 402 | 5.220 | 34.071 | 2 | 77.00 | 2 | -96.2 | 5.0 | 2 | 11701 |
| 1 | 7 | 504 | 4.715 | 34.085 | 2 | 85.60 | 2 | -104.7 | 7.1 | 2 | 11568 |
| 1 | 6 | 604 | 4.285 | 34.114 | 2 | 95.70 | 2 | -129.8 | 2.7 | 2 | 11606 |
| 1 | 5 | 705 | 4.256 | 34.201 | 2 | 102.80 | 2 | -143.3 | 2.7 | 2 | 11605 |
| 1 | 4 | 802 | 3.849 | 34.242 | 2 | 113.30 | 2 | -165.2 | 2.7 | 2 | 11604 |
| 1 | 3 | 903 | 3.506 | 34.330 | 2 | 124.30 | 2 | -184.0 | 2.7 | 2 | 11603 |
| 1 | 2 | 1056 | 3.132 | 34.389 | 2 | 134.60 | 2 | -203.0 | 4.0 | 2 | 11602 |
| 1 | 1 | 1156 | 3.003 | 34.407 | 2 | 138.30 | 2 | -205.9 | 4.4 | 2 | 11601 |

Station 93

| | | Latitude | | 35.125°N | | | | Date | | 11/9/93 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 140.831°E | | | | Bottom Depth | | 481 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 10 | 16 | 22.930 | 34.738 | 2 | 2.10 | 2 | 110.1 | 2.6 | 2 | 10981 |
| 1 | 8 | 105 | 18.441 | 34.565 | 2 | 9.70 | 2 | 87.6 | 2.7 | 2 | 10980 |

Station 93 (Continued)

| | | Latitude | | | | 35.125°N | | | | Date | | 11/9/93 | |
|------|------|-------------|------------|--------|---|---------------|---|----------------------------|----------|--------------|-------|---------|--|
| | | Longitude | | | | 140.831°E | | | | Bottom Depth | | 481 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# | | |
| 1 | 6 | 204 | 12.965 | 34.483 | 2 | 24.60 | 2 | 42.2 | 2.6 | 2 | 10979 | | |
| 1 | 4 | 304 | 8.261 | 34.220 | 2 | 53.60 | 2 | -54.2 | 2.5 | 2 | 10978 | | |
| 1 | 2 | 399 | 5.723 | 34.076 | 2 | 70.10 | 2 | -85.5 | 2.4 | 2 | 10977 | | |
| 1 | 1 | 472 | 5.465 | 34.088 | 2 | 75.00 | 2 | -85.4 | 3.2 | 2 | 10976 | | |

Station 94

| | | Latitude | | | | 35.167°N | | | | Date | | 11/9/93 | |
|------|------|-------------|------------|--------|---|---------------|---|----------------------------|----------|--------------|-------|---------|--|
| | | Longitude | | | | 140.781°E | | | | Bottom Depth | | 216 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# | | |
| 1 | 14 | 118 | 18.388 | 34.445 | 2 | 9.30 | 2 | 78.6 | 2.6 | 2 | 10984 | | |
| 1 | 12 | 176 | 14.928 | 34.520 | 2 | 18.50 | 2 | 67.5 | 2.7 | 2 | 10982 | | |

WOCE Cruise P13 Leg 1&2
NOAA Designation CGC-92/1 & CGC-92/2

8/4/92 - 9/15/92

Chief Scientists: J.L. Bullister and B. Taft

Principal Investigator for $\Delta^{14}\text{C}$: P. Quay

NOSAMS Report 95-085 and 96-057

Stations with Surface Data Only

| Station | Latitude | Longitude | Cast | Bottle | Pres. (dB) | Temp (°C) | Salt | F | Silicate ($\mu\text{mol/kg}$) | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
|---------|----------|-----------|------|--------|------------|-----------|--------|---|---------------------------------|---|-------------------------|-------|---|------|
| 15 | 52.016°E | 164.289°E | 1 | 36 | 7 | 10.305 | 32.843 | 2 | 25.77 | 2 | -8.4 | 3.5 | 2 | 4609 |
| 17 | 50.985°E | 164.961°E | 1 | 36 | 8 | 9.827 | 32.843 | 2 | 25.22 | 2 | -23.3 | 3.4 | 2 | 4610 |
| 21 | 48.994°E | 164.972°E | 1 | 35 | 7 | 10.367 | 32.876 | 2 | 29.60 | 2 | -10.5 | 3.7 | 2 | 4611 |
| 23 | 47.989°E | 165.001°E | 1 | 36 | 6 | 10.905 | 32.885 | 2 | 28.83 | 2 | -1.4 | 3.7 | 2 | 4614 |
| 31 | 44.003°E | 164.963°E | 1 | 36 | 6 | 14.319 | 32.899 | 2 | 24.91 | 2 | 39.5 | 3.3 | 2 | 4606 |
| 33 | 43.008°E | 165.000°E | 1 | 36 | 7 | 15.478 | 32.801 | 2 | 11.64 | 2 | 2.1 | 3.3 | 2 | 4607 |
| 35 | 42.011°E | 165.031°E | 1 | 36 | 6 | 17.112 | 32.937 | 2 | 15.97 | 2 | 4.0 | 4.5 | 2 | 4612 |
| 37 | 41.022°E | 164.990°E | 1 | 36 | 7 | 19.175 | 33.711 | 2 | 3.29 | 2 | 58.7 | 3.4 | 2 | 4613 |
| 42 | 38.480°E | 165.040°E | 1 | 36 | 7 | 22.171 | 34.387 | 2 | 1.82 | 2 | 85.9 | 5.9 | 2 | 4468 |
| 52 | 32.698°E | 165.025°E | 1 | 36 | 7 | 26.812 | 34.380 | 2 | 1.33 | 2 | 131.6 | 5.0 | 2 | 4608 |
| 62 | 18.665°E | 164.598°E | 1 | 33 | 20 | 28.820 | 35.036 | 2 | 0.35 | 2 | 110.2 | 3.6 | 2 | 4615 |

Station 5

| Latitude | | 54.245°N | | Date | | 8/17/92 | | | | | |
|-----------|------|-----------|---------|--------------|---|-----------------------|---|-------------------------|-------|---|------|
| Longitude | | 171.744°W | | Bottom Depth | | 3269 | | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 35 | 6 | 8.469 | 32.937 | 2 | 23.87 | 2 | -22.1 | 6.8 | 2 | 2922 |
| 1 | 34 | 21 | 8.462 | 32.940 | 2 | 24.20 | 2 | -22.3 | 4.3 | 2 | 2923 |
| 1 | 33 | 47 | 4.615 | 33.146 | 2 | 45.87 | 2 | -32.5 | 4.1 | 2 | 2924 |
| 1 | 32 | 72 | 3.425 | 33.212 | 2 | 52.35 | 2 | -44.1 | 4.3 | 2 | 2925 |
| 1 | 31 | 96 | 3.129 | 33.256 | 2 | 54.96 | 2 | -43.5 | 4.2 | 2 | 2926 |
| 1 | 30 | 145 | 2.516 | 33.293 | 2 | 56.77 | 2 | -46.4 | 6.0 | 2 | 2927 |
| 1 | 29 | 195 | 3.038 | 33.341 | 2 | 60.38 | 2 | -52.9 | 3.7 | 2 | 2928 |
| 1 | 28 | 244 | 3.695 | 33.556 | 2 | 75.17 | 2 | -79.5 | 4.3 | 2 | 3091 |
| 1 | 27 | 298 | 3.723 | 33.735 | 2 | 86.03 | 2 | -100.5 | 3.5 | 2 | 3092 |
| 1 | 24 | 485 | 3.570 | 34.046 | 2 | 109.66 | 2 | -164.1 | 4.2 | 2 | 3315 |
| 1 | 23 | 593 | 3.392 | 34.149 | 2 | 120.54 | 2 | -165.9 | 3.1 | 2 | 3093 |
| 1 | 22 | 693 | 3.262 | 34.212 | 2 | 127.26 | 2 | -173.2 | 3.0 | 2 | 3094 |
| 1 | 20 | 893 | 2.958 | 34.313 | 2 | 141.65 | 2 | -205.9 | 2.8 | 2 | 3095 |
| 1 | 19 | 995 | 2.838 | 34.351 | 2 | 147.49 | 2 | -217.5 | 3.0 | 2 | 3096 |
| 1 | 18 | 1095 | 2.706 | 34.386 | 2 | 152.09 | 2 | -227.4 | 4.3 | 2 | 3097 |
| 1 | 16 | 1291 | 2.473 | 34.441 | 2 | 160.93 | 2 | -233.2 | 5.9 | 2 | 3098 |
| 1 | 14 | 1494 | 2.251 | 34.505 | 2 | 173.99 | 2 | -223.9 | 4.2 | 2 | 3101 |

Station 5

| | | Latitude | | 54.245°N | | Date | | 8/17/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 171.744°W | | Bottom Depth | | 3269 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 1693 | 2.066 | 34.543 | 2 | 180.75 | 2 | -247.4 | 7.8 | 2 | 3099 |
| 1 | 11 | 1795 | 1.980 | 34.558 | 2 | 186.72 | 2 | -228.7 | 2.5 | 2 | 3100 |
| 1 | 10 | 1992 | 1.877 | 34.587 | 2 | 193.42 | 2 | -233.5 | 3.8 | 2 | 3102 |
| 1 | 9 | 2192 | 1.785 | 34.602 | 2 | 198.27 | 2 | -230.8 | 3.0 | 2 | 3104 |
| 1 | 3 | 3099 | 1.582 | 34.657 | 2 | 214.91 | 2 | -229.1 | 4.1 | 2 | 3103 |

Station 14

| | | Latitude | | 54.245°N | | Date | | 8/23/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 163.587°E | | Bottom Depth | | 5153 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 10.374 | 32.925 | 2 | 27.86 | 2 | -30.6 | 3.2 | 2 | 7007 |
| 1 | 35 | 21 | 10.361 | 32.926 | 2 | 38.71 | 2 | -13.2 | 3.3 | 2 | 6998 |
| 1 | 34 | 46 | 4.392 | 33.121 | 2 | 49.98 | 2 | -36.2 | 3.2 | 2 | 6992 |
| 1 | 33 | 72 | 1.764 | 33.226 | 2 | 52.55 | 2 | -56.4 | 3.1 | 2 | 7000 |
| 1 | 32 | 96 | 1.650 | 33.267 | 2 | 72.47 | 2 | -19.6 | 3.6 | 2 | 6996 |
| 1 | 31 | 120 | 2.655 | 33.554 | 2 | 87.69 | 2 | -84.9 | 3.3 | 2 | 6987 |
| 1 | 30 | 146 | 3.487 | 33.791 | 2 | 92.37 | 2 | -86.4 | 3.3 | 2 | 6990 |
| 1 | 29 | 170 | 3.651 | 33.867 | 2 | 95.28 | 2 | -96.5 | 3.1 | 2 | 6995 |
| 1 | 28 | 196 | 3.674 | 33.907 | 2 | 101.27 | 2 | -121.2 | 4.9 | 2 | 6999 |
| 1 | 27 | 245 | 3.668 | 33.976 | 2 | 105.83 | 2 | -131.3 | 3.9 | 2 | 6993 |
| 1 | 26 | 295 | 3.617 | 34.028 | 2 | 113.92 | 2 | -136.5 | 2.7 | 2 | 6997 |
| 1 | 25 | 344 | 3.563 | 34.075 | 2 | 110.12 | 2 | -145.9 | 5.0 | 2 | 6988 |
| 1 | 24 | 394 | 3.493 | 34.117 | 2 | 113.84 | 2 | -166.7 | 3.2 | 2 | 6989 |
| 1 | 23 | 494 | 3.354 | 34.189 | 2 | 122.42 | 2 | -177.7 | 2.8 | 2 | 7001 |
| 1 | 22 | 593 | 3.200 | 34.247 | 2 | 129.85 | 2 | -186.6 | 3.2 | 2 | 6994 |
| 1 | 21 | 694 | 3.057 | 34.297 | 2 | 135.76 | 2 | -197.0 | 2.9 | 2 | 6782 |
| 1 | 20 | 792 | 2.920 | 34.333 | 2 | 141.41 | 2 | -201.2 | 2.8 | 2 | 6783 |
| 1 | 19 | 892 | 2.781 | 34.373 | 2 | 146.61 | 2 | -198.6 | 3.9 | 2 | 6986 |
| 1 | 18 | 993 | 2.655 | 34.407 | 2 | 152.89 | 2 | -214.3 | 2.9 | 2 | 6781 |
| 1 | 17 | 1196 | 2.401 | 34.465 | 2 | 160.20 | 2 | -235.8 | 3.0 | 2 | 6985 |
| 1 | 13 | 1992 | 1.839 | 34.595 | 2 | 169.88 | 2 | -238.4 | 3.1 | 2 | 6991 |

Station 19

| | | Latitude | | 49.985°N | | Date | | 8/25/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.002°E | | Bottom Depth | | 5472 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 7 | 9.874 | 32.875 | 2 | 28.12 | 2 | -10.7 | 3.4 | 2 | 3507 |
| 1 | 34 | 21 | 9.869 | 32.882 | 2 | 28.33 | 2 | -17.7 | 5.1 | 2 | 3565 |
| 1 | 33 | 46 | 5.118 | 33.011 | 2 | 33.12 | 2 | -12.1 | 4.8 | 2 | 3508 |
| 1 | 32 | 71 | 3.351 | 33.120 | 2 | 38.46 | 2 | -25.6 | 5.8 | 2 | 3509 |
| 1 | 31 | 96 | 2.301 | 33.203 | 2 | 45.62 | 2 | -25.2 | 3.4 | 2 | 3510 |
| 1 | 30 | 121 | 2.237 | 33.347 | 2 | 56.83 | 2 | -50.1 | 4.7 | 2 | 3566 |
| 1 | 29 | 146 | 2.577 | 33.637 | 2 | 77.90 | 2 | -78.7 | 5.1 | 2 | 3390 |
| 1 | 27 | 195 | 3.303 | 33.835 | 2 | 92.86 | 2 | -99.5 | 3.6 | 2 | 3391 |
| 1 | 26 | 245 | 3.403 | 33.923 | 2 | 98.10 | 2 | -125.5 | 3.6 | 2 | 3511 |
| 1 | 25 | 294 | 3.476 | 33.999 | 2 | 104.05 | 2 | -141.4 | 3.0 | 2 | 3512 |
| 1 | 23 | 394 | 3.494 | 34.117 | 2 | 113.59 | 2 | -156.6 | 5.8 | 2 | 3392 |
| 1 | 22 | 495 | 3.365 | 34.185 | 2 | 120.88 | 2 | -176.9 | 2.9 | 2 | 3513 |
| 1 | 21 | 594 | 3.206 | 34.258 | 2 | 127.28 | 2 | -192.6 | 2.7 | 2 | 3514 |
| 1 | 20 | 694 | 3.056 | 34.306 | 2 | 133.20 | 2 | -195.3 | 2.7 | 2 | 3515 |
| 1 | 19 | 795 | 2.909 | 34.349 | 2 | 138.59 | 2 | -210.2 | 3.6 | 2 | 3516 |
| 1 | 18 | 893 | 2.786 | 34.381 | 2 | 142.77 | 2 | -202.4 | 2.9 | 2 | 3517 |
| 1 | 17 | 992 | 2.654 | 34.415 | 2 | 146.58 | 2 | -206.3 | 3.5 | 2 | 3518 |
| 1 | 16 | 1193 | 2.389 | 34.476 | 2 | 154.31 | 2 | -219.1 | 2.8 | 2 | 3519 |
| 1 | 15 | 1393 | 2.189 | 34.523 | 2 | 159.22 | 2 | -221.4 | 2.8 | 2 | 3520 |
| 1 | 13 | 1794 | 1.901 | 34.583 | 2 | 163.79 | 2 | -225.8 | 3.0 | 2 | 3567 |
| 1 | 12 | 1994 | 1.800 | 34.605 | 2 | 164.26 | 2 | -227.5 | 2.8 | 2 | 3521 |
| 1 | 11 | 2293 | 1.684 | 34.629 | 2 | 160.76 | 2 | -230.3 | 2.9 | 2 | 3522 |
| 1 | 10 | 2595 | 1.601 | 34.645 | 2 | 157.39 | 2 | -229.2 | 2.9 | 2 | 3523 |
| 1 | 9 | 2895 | 1.541 | 34.657 | 2 | 153.76 | 2 | -230.1 | 3.1 | 2 | 3393 |
| 1 | 8 | 3197 | 1.499 | 34.665 | 2 | 150.89 | 2 | -223.6 | 2.9 | 2 | 3524 |
| 1 | 7 | 3496 | 1.478 | 34.672 | 2 | 148.60 | 2 | -183.9 | 4.8 | 4 | 3525 |
| 1 | 6 | 3796 | 1.467 | 34.677 | 2 | 146.79 | 2 | -221.7 | 5.4 | 2 | 3394 |
| 1 | 5 | 4098 | 1.469 | 34.679 | 2 | 146.12 | 2 | -205.6 | 3.0 | 3 | 3526 |
| 1 | 3 | 4699 | 1.496 | 34.684 | 2 | 144.67 | 2 | -223.4 | 3.9 | 2 | 3395 |
| 1 | 1 | 5581 | 1.581 | 34.687 | 2 | 146.17 | 2 | -222.7 | 5.7 | 2 | 3396 |

Station 24

| | | Latitude | | 49.985°N | | Date | | 8/25/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.002°E | | Bottom Depth | | 5472 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 7 | 11.121 | 32.895 | 2 | 30.00 | 2 | -18.2 | 2.7 | 2 | 5954 |
| 1 | 34 | 21 | 9.991 | 32.915 | 2 | 30.36 | 2 | -16.5 | 4.1 | 2 | 5959 |
| 1 | 33 | 45 | 4.729 | 33.062 | 2 | 37.60 | 2 | -28.5 | 2.8 | 2 | 5828 |
| 1 | 32 | 72 | 2.684 | 33.091 | 2 | 41.42 | 2 | -31.6 | 2.9 | 2 | 5963 |

Station 24 (Continued)

| | | Latitude | | 49.985°N | | | | Date | | 8/25/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 165.002°E | | | | Bottom Depth | | 5472 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 31 | 97 | 2.079 | 33.133 | 2 | 45.61 | 2 | -32.9 | 2.6 | 2 | 5955 |
| 1 | 30 | 122 | 1.511 | 33.310 | 2 | 56.86 | 2 | -49.5 | 2.5 | 2 | 5957 |
| 1 | 29 | 146 | 2.143 | 33.598 | 2 | 79.18 | 2 | -77.1 | 2.2 | 2 | 5826 |
| 1 | 27 | 196 | 2.833 | 33.765 | 2 | 100.43 | 2 | -104.2 | 3.3 | 2 | 5956 |
| 1 | 25 | 296 | 3.172 | 33.954 | 2 | 106.94 | 2 | -135.0 | 2.3 | 2 | 5825 |
| 1 | 24 | 345 | 3.239 | 34.032 | 2 | 112.65 | 2 | -141.4 | 2.8 | 2 | 5964 |
| 1 | 23 | 396 | 3.258 | 34.109 | 2 | 117.48 | 2 | -149.3 | 6.1 | 2 | 5961 |
| 1 | 22 | 495 | 3.172 | 34.177 | 2 | 126.05 | 2 | -172.3 | 7.8 | 6 | 5960 |
| | | | | | | | | | | | 5827 |
| 1 | 21 | 595 | 3.060 | 34.234 | 2 | 133.34 | 2 | -184.7 | 2.3 | 2 | 5953 |
| 1 | 20 | 695 | 2.961 | 34.294 | 2 | 141.57 | 2 | -190.4 | 2.6 | 2 | 5958 |
| 1 | 19 | 795 | 2.851 | 34.340 | 2 | 146.91 | 2 | -193.8 | 4.2 | 2 | 5962 |
| 1 | 18 | 894 | 2.716 | 34.382 | 2 | 152.14 | 2 | -210.1 | 2.4 | 2 | 5830 |
| 1 | 17 | 994 | 2.604 | 34.413 | 2 | 156.05 | 2 | -212.6 | 2.4 | 2 | 5829 |
| 1 | 16 | 1294 | 2.284 | 34.496 | 2 | 164.84 | 2 | -233.4 | 2.5 | 2 | 5832 |
| 1 | 14 | 1893 | 1.889 | 34.591 | 2 | 170.03 | 2 | -238.4 | 2.3 | 2 | 5831 |

Station 29

| | | Latitude | | 44.991°N | | | | Date | | 8/30/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 164.981°E | | | | Bottom Depth | | 5830 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 13.474 | 33.208 | 2 | 18.98 | 2 | 11.4 | 4.8 | 2 | 3862 |
| 1 | 35 | 16 | 13.476 | 33.214 | 2 | 19.29 | 2 | -1.7 | 6.4 | 2 | 3583 |
| 1 | 34 | 46 | 5.654 | 33.416 | 2 | 29.39 | 2 | 5.8 | 6.2 | 2 | 3863 |
| 1 | 33 | 70 | 4.671 | 33.504 | 2 | 30.30 | 2 | 2.5 | 5.2 | 2 | 3569 |
| 1 | 32 | 95 | 4.489 | 33.523 | 2 | 29.50 | 2 | -11.0 | 5.8 | 2 | 3573 |
| 1 | 31 | 120 | 4.517 | 33.597 | 2 | 31.37 | 2 | 7.7 | 3.3 | 2 | 3861 |
| 1 | 30 | 145 | 4.953 | 33.643 | 2 | 34.61 | 2 | 4.2 | 3.4 | 2 | 3864 |
| 1 | 27 | 244 | 3.989 | 33.747 | 2 | 66.31 | 2 | -56.3 | 4.4 | 2 | 3865 |
| 1 | 24 | 394 | 3.820 | 33.938 | 2 | 90.86 | 2 | -114.0 | 4.0 | 2 | 3859 |
| 1 | 23 | 494 | 3.594 | 34.042 | 2 | 105.24 | 2 | -138.3 | 4.1 | 2 | 3866 |
| 1 | 21 | 693 | 3.286 | 34.218 | 2 | 125.96 | 2 | -171.5 | 3.2 | 2 | 3571 |
| 1 | 20 | 793 | 3.119 | 34.275 | 2 | 132.98 | 2 | -178.8 | 5.4 | 2 | 3860 |
| 1 | 19 | 894 | 2.957 | 34.327 | 2 | 138.81 | 2 | -204.0 | 3.9 | 2 | 3867 |
| 1 | 18 | 994 | 2.792 | 34.362 | 2 | 143.92 | 2 | -202.4 | 3.7 | 2 | 3570 |
| 1 | 17 | 1191 | 2.522 | 34.424 | 2 | 156.61 | 2 | -214.1 | 3.1 | 2 | 3575 |
| 1 | 16 | 1491 | 2.244 | 34.507 | 2 | 164.84 | 2 | -229.2 | 4.5 | 2 | 3582 |
| 1 | 15 | 1794 | 2.055 | 34.561 | 2 | 166.53 | 2 | -243.3 | 3.2 | 2 | 3581 |
| 1 | 14 | 2090 | 1.887 | 34.598 | 2 | 168.00 | 2 | -240.3 | 3.2 | 2 | 3572 |
| 1 | 13 | 2394 | 1.741 | 34.627 | 2 | 166.15 | 2 | -241.5 | 2.5 | 2 | 3868 |

Station 29 (Continued)

| | | Latitude | | 44.991°N | | Date | | 8/30/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.981°E | | Bottom Depth | | 5830 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 2698 | 1.639 | 34.645 | 2 | 162.79 | 2 | -241.4 | 2.8 | 2 | 3578 |
| 1 | 11 | 2996 | 1.574 | 34.657 | 2 | 160.06 | 2 | -232.2 | 4.5 | 2 | 3576 |
| 1 | 10 | 3297 | 1.527 | 34.667 | 2 | 158.14 | 2 | -231.8 | 3.4 | 2 | 3574 |
| 1 | 9 | 3597 | 1.499 | 34.672 | 2 | 156.08 | 2 | -226.1 | 3.1 | 2 | 3584 |
| 1 | 8 | 3900 | 1.485 | 34.677 | 2 | 154.53 | 2 | -216.6 | 2.4 | 2 | 3869 |
| 1 | 6 | 4594 | 1.492 | 34.684 | 2 | 151.48 | 2 | -220.7 | 3.3 | 2 | 3580 |
| 1 | 5 | 5000 | 1.520 | 34.688 | 2 | 151.46 | 2 | -210.6 | 3.9 | 2 | 3876 |
| 1 | 4 | 5398 | 1.561 | 34.688 | 2 | 152.75 | 2 | -208.0 | 3.4 | 2 | 3577 |
| 1 | 3 | 5592 | 1.585 | 34.691 | 2 | 153.42 | 2 | -205.0 | 3.1 | 2 | 3568 |
| 1 | 2 | 5949 | 1.631 | 34.690 | 6 | 153.19 | 2 | -217.6 | 3.8 | 2 | 3579 |

Station 34

| | | Latitude | | 42.499°N | | Date | | 9/1/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.99°E | | Bottom Depth | | 4987 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 15.464 | 32.792 | 2 | 16.97 | 2 | 4.6 | 2.4 | 2 | 6614 |
| 1 | 34 | 26 | 7.519 | 33.138 | 2 | 24.82 | 2 | 5.3 | 3.7 | 2 | 6620 |
| 1 | 33 | 46 | 5.430 | 33.239 | 2 | 27.91 | 2 | 29.8 | 8.1 | 2 | 6628 |
| 1 | 32 | 72 | 4.005 | 33.288 | 2 | 31.00 | 2 | -13.5 | 2.8 | 2 | 6623 |
| 1 | 31 | 97 | 3.994 | 33.346 | 2 | 31.66 | 2 | 12.0 | 2.7 | 2 | 6625 |
| 1 | 30 | 121 | 4.028 | 33.442 | 2 | 36.84 | 2 | -1.7 | 3.7 | 2 | 6635 |
| 1 | 29 | 146 | 4.091 | 33.547 | 2 | 44.18 | 2 | -3.9 | 3.4 | 2 | 6626 |
| 1 | 26 | 196 | 3.589 | 33.715 | 2 | 66.16 | 2 | -35.3 | 4.2 | 2 | 6630 |
| 1 | 25 | 246 | 3.432 | 33.785 | 2 | 76.30 | 2 | -72.4 | 2.4 | 2 | 6616 |
| 1 | 24 | 294 | 3.624 | 33.855 | 2 | 86.60 | 2 | -94.5 | 2.3 | 2 | 6615 |
| 1 | 23 | 345 | 3.570 | 33.923 | 2 | 94.42 | 2 | -101.7 | 3.9 | 2 | 6631 |
| 1 | 22 | 395 | 3.471 | 33.983 | 2 | 103.04 | 2 | -140.0 | 2.8 | 2 | 6636 |
| 1 | 21 | 494 | 3.463 | 34.099 | 2 | 114.41 | 2 | -148.4 | 5.8 | 6 | 6621 |
| | | | | | | | | | | | 6624 |
| 1 | 20 | 595 | 3.415 | 34.191 | 6 | 122.36 | 2 | -150.0 | 3.9 | 2 | 6627 |
| 1 | 19 | 693 | 3.204 | 34.255 | 2 | 130.81 | 2 | -177.8 | 2.8 | 2 | 6618 |
| 1 | 18 | 793 | 3.025 | 34.304 | 2 | 137.17 | 2 | -186.0 | 2.5 | 2 | 6634 |
| 1 | 17 | 894 | 2.864 | 34.353 | 2 | 143.06 | 2 | -203.5 | 3.6 | 2 | 6619 |
| 1 | 16 | 993 | 2.742 | 34.391 | 2 | 147.55 | 2 | -207.1 | 2.5 | 2 | 6622 |
| 1 | 15 | 1194 | 2.469 | 34.446 | 2 | 155.43 | 2 | -217.1 | 2.8 | 2 | 6617 |
| 1 | 11 | 1991 | 1.893 | 34.589 | 2 | 166.84 | 2 | -218.2 | 4.2 | 3 | 6629 |

Station 39

| | | Latitude | | 40.015°N | | Date | | 9/2/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.003°E | | Bottom Depth | | 5470 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 19.573 | 33.767 | 2 | 3.47 | 2 | 65.1 | 3.7 | 2 | 3886 |
| 1 | 35 | 23 | 19.241 | 33.791 | 2 | 3.84 | 2 | 66.2 | 5.1 | 2 | 3887 |
| 1 | 34 | 47 | 12.102 | 34.034 | 2 | 14.12 | 2 | 39.0 | 4.1 | 2 | 4464 |
| 1 | 31 | 120 | 8.646 | -9 | 5 | 23.67 | 2 | 24.5 | 5.1 | 2 | 4470 |
| 1 | 30 | 146 | 7.956 | 33.977 | 2 | 26.31 | 2 | 28.3 | 3.7 | 2 | 3893 |
| 1 | 27 | 194 | 6.850 | 33.847 | 2 | 28.63 | 2 | -11.0 | 3.6 | 2 | 4465 |
| 1 | 26 | 244 | 6.146 | 33.845 | 2 | 36.52 | 2 | 1.1 | 6.9 | 3 | 4461 |
| 1 | 25 | 295 | 5.436 | 33.906 | 2 | 57.08 | 2 | -57.6 | 3.5 | 2 | 3898 |
| 1 | 24 | 344 | 4.947 | 33.909 | 2 | 66.27 | 2 | -72.8 | 4.2 | 2 | 3888 |
| 1 | 23 | 394 | 4.643 | 33.936 | 2 | 75.22 | 2 | -87.1 | 3.1 | 2 | 3889 |
| 1 | 22 | 495 | 4.297 | 34.067 | 2 | 91.28 | 2 | -119.9 | 3.8 | 2 | 3890 |
| 1 | 21 | 594 | 3.963 | 34.156 | 2 | 105.83 | 2 | -143.1 | 3.7 | 2 | 3891 |
| 1 | 19 | 794 | 3.529 | 34.305 | 2 | 125.91 | 2 | -181.0 | 3.4 | 2 | 3892 |
| 1 | 18 | 895 | 3.183 | 34.358 | 6 | 134.53 | 2 | -213.7 | 2.9 | 2 | 4466 |
| 1 | 17 | 994 | 2.867 | 34.388 | 2 | 144.32 | 2 | -225.4 | 4.2 | 2 | 4467 |
| 1 | 16 | 1192 | 2.419 | 34.442 | 2 | 157.25 | 2 | -225.5 | 3.0 | 2 | 3897 |
| 1 | 15 | 1393 | 2.329 | 34.474 | 2 | 160.02 | 2 | -215.2 | 3.1 | 2 | 3894 |
| 1 | 12 | 2095 | 1.996 | 34.575 | 2 | 164.57 | 2 | -236.0 | 3.2 | 2 | 3900 |
| 1 | 10 | 2697 | 1.657 | 34.646 | 2 | 163.92 | 2 | -239.8 | 2.9 | 2 | 4469 |
| 1 | 9 | 2995 | 1.575 | 34.656 | 2 | 160.83 | 2 | -228.7 | 5.1 | 3 | 4460 |
| 1 | 8 | 3295 | 1.518 | 34.666 | 2 | 157.85 | 2 | -239.6 | 4.3 | 2 | 3896 |
| 1 | 7 | 3598 | 1.485 | 34.672 | 2 | 155.98 | 2 | -231.1 | 3.3 | 2 | 3895 |
| 1 | 5 | 4197 | 1.470 | 34.682 | 2 | 153.14 | 2 | -228.8 | 4.0 | 2 | 4473 |
| 1 | 4 | 4497 | 1.479 | 34.685 | 2 | 152.37 | 2 | -221.4 | 3.3 | 2 | 4462 |
| 1 | 3 | 4797 | 1.498 | 34.685 | 2 | 152.51 | 2 | -226.3 | 3.0 | 2 | 4471 |
| 1 | 2 | 5098 | 1.526 | 34.687 | 2 | 152.70 | 2 | -215.1 | 2.8 | 2 | 3899 |
| 1 | 1 | 5574 | 1.582 | 34.688 | 6 | 153.73 | 2 | -228.9 | 3.0 | 2 | 4463 |

Station 47

| | | Latitude | | 36.013°N | | Date | | 9/5/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.008°E | | Bottom Depth | | 5490 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 7 | 23.185 | 34.278 | 2 | 2.01 | 2 | 98.8 | 3.3 | 2 | 4588 |
| 1 | 34 | 20 | 20.966 | 34.137 | 2 | 2.33 | 2 | 83.5 | 3.2 | 2 | 4589 |
| 1 | 33 | 45 | 14.711 | 34.499 | 2 | 3.70 | 2 | 93.1 | 3.6 | 2 | 4590 |
| 1 | 32 | 71 | 13.787 | 34.514 | 2 | 9.40 | 2 | 80.6 | 3.5 | 2 | 4591 |
| 1 | 31 | 97 | 13.063 | 34.462 | 2 | 11.23 | 2 | 75.1 | 3.3 | 2 | 4592 |
| 1 | 29 | 145 | 12.257 | 34.414 | 2 | 12.72 | 2 | 55.2 | 3.4 | 2 | 4593 |
| 1 | 26 | 195 | 11.752 | 34.374 | 2 | 14.08 | 2 | 57.0 | 3.6 | 2 | 4594 |

Station 47 (Continued)

| | | Latitude | | 36.013°N | | | | Date | | 9/5/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|--------|------|
| | | Longitude | | 165.008°E | | | | Bottom Depth | | 5490 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 25 | 245 | 10.993 | 34.306 | 2 | 17.16 | 2 | 44.6 | 4.2 | 2 | 4595 |
| 1 | 24 | 295 | 9.941 | 34.223 | 2 | 23.31 | 2 | 22.3 | 4.9 | 2 | 4596 |
| 1 | 23 | 340 | 8.948 | 34.146 | 2 | 27.68 | 2 | 7.2 | 3.5 | 2 | 4597 |
| 1 | 22 | 394 | 7.824 | 34.066 | 2 | 36.24 | 2 | -15.0 | 5.7 | 2 | 4598 |
| 1 | 21 | 493 | 5.863 | 34.003 | 2 | 58.48 | 2 | -61.0 | 4.3 | 2 | 4599 |
| 1 | 20 | 595 | 4.557 | 34.015 | 2 | 79.52 | 2 | -101.2 | 3.8 | 2 | 4600 |
| 1 | 19 | 695 | 4.341 | 34.126 | 2 | 96.00 | 2 | -136.6 | 2.8 | 2 | 4601 |
| 1 | 18 | 793 | 3.930 | 34.214 | 6 | 111.00 | 2 | -167.9 | 2.9 | 2 | 4602 |
| 1 | 17 | 894 | 3.657 | 34.284 | 2 | 121.04 | 2 | -183.6 | 2.8 | 2 | 4603 |
| 1 | 16 | 993 | 3.363 | 34.338 | 2 | 130.37 | 2 | -194.5 | 4.0 | 2 | 4604 |
| 1 | 12 | 1993 | 1.984 | 34.588 | 2 | 165.21 | 2 | -250.7 | 2.8 | 2 | 4605 |

Station 50

| | | Latitude | | 34.042°N | | | | Date | | 9/7/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|--------|------|
| | | Longitude | | 165.053°E | | | | Bottom Depth | | 6070 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 7 | 26.563 | 34.301 | 2 | 1.33 | 2 | 109.8 | 3.2 | 2 | 5975 |
| 1 | 34 | 21 | 26.526 | 34.298 | 2 | 1.35 | 2 | 115.6 | 4.1 | 2 | 6092 |
| 1 | 32 | 72 | 20.449 | 34.729 | 2 | 4.43 | 2 | 109.6 | 4.1 | 2 | 5974 |
| 1 | 31 | 99 | 19.066 | -9 | 1 | 5.95 | 2 | 118.0 | 4.0 | 2 | 5976 |
| 1 | 30 | 122 | 17.670 | 34.759 | 2 | 6.73 | 2 | 109.9 | 3.3 | 2 | 5969 |
| 1 | 29 | 146 | 17.145 | 34.710 | 2 | 9.09 | 2 | 100.7 | 3.4 | 2 | 5981 |
| 1 | 28 | 171 | 16.147 | 34.649 | 2 | 10.84 | 2 | 92.6 | 3.3 | 2 | 6090 |
| 1 | 27 | 195 | 15.520 | 34.647 | 2 | 11.50 | 2 | 81.3 | 4.0 | 2 | 6094 |
| 1 | 26 | 248 | 13.422 | 34.486 | 2 | 11.02 | 2 | 79.0 | 3.1 | 2 | 5979 |
| 1 | 25 | 295 | 12.637 | 34.419 | 2 | 14.63 | 2 | 75.6 | 3.4 | 2 | 5965 |
| 1 | 24 | 345 | 11.461 | 34.339 | 2 | 18.19 | 2 | 60.0 | 3.2 | 2 | 5988 |
| 1 | 23 | 395 | 10.139 | 34.280 | 2 | 26.86 | 2 | 27.2 | 3.8 | 2 | 6091 |
| 1 | 22 | 492 | 6.925 | 34.004 | 2 | 42.72 | 2 | -19.6 | 3.1 | 2 | 5983 |
| 1 | 21 | 596 | 5.401 | 34.002 | 2 | 67.19 | 2 | -112.1 | 2.8 | 2 | 5972 |
| 1 | 20 | 697 | 4.615 | 34.069 | 2 | 87.96 | 2 | -130.1 | 2.9 | 2 | 5971 |
| 1 | 19 | 792 | 4.237 | 34.181 | 2 | 103.49 | 2 | -147.0 | 2.6 | 2 | 5978 |
| 1 | 18 | 896 | 3.825 | 34.266 | 2 | 118.53 | 2 | -177.1 | 2.7 | 2 | 5984 |
| 1 | 16 | 1193 | 2.883 | 34.413 | 2 | 143.58 | 2 | -208.1 | 2.7 | 2 | 5967 |
| 1 | 15 | 1389 | 2.573 | 34.474 | 2 | 154.54 | 2 | -228.5 | 2.9 | 2 | 5970 |
| 1 | 14 | 1694 | 2.201 | 34.552 | 2 | 161.88 | 2 | -240.3 | 2.5 | 2 | 5973 |
| 1 | 13 | 1995 | 1.958 | 34.595 | 2 | 165.71 | 2 | -243.1 | 3.6 | 2 | 5966 |
| 1 | 12 | 2296 | 1.753 | 34.623 | 2 | 165.74 | 2 | -235.7 | 2.6 | 2 | 5987 |
| 1 | 9 | 3196 | 1.503 | 34.667 | 2 | 157.94 | 2 | -235.9 | 2.6 | 2 | 5982 |

Station 50 (Continued)

| | | Latitude | | 34.042°N | | | | Date | | 9/7/92 | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|--------|------|
| | | Longitude | | 165.053°E | | | | Bottom Depth | | 6070 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 8 | 3597 | 1.476 | 34.681 | 2 | 154.19 | 2 | -254.3 | 2.3 | 2 | 5977 |
| 1 | 7 | 4003 | 1.464 | 34.681 | 2 | 151.73 | 2 | -215.7 | 2.6 | 2 | 6089 |
| 1 | 6 | 4400 | 1.468 | 34.686 | 2 | 149.60 | 2 | -222.4 | 2.6 | 2 | 5968 |
| 1 | 5 | 4800 | 1.475 | 34.689 | 2 | 145.80 | 2 | -207.1 | 3.3 | 2 | 6093 |
| 1 | 4 | 5100 | 1.487 | 34.691 | 2 | 142.52 | 2 | -209.0 | 2.4 | 2 | 5986 |
| 1 | 3 | 5396 | 1.502 | 34.694 | 2 | 139.79 | 2 | -201.4 | 3.6 | 2 | 5980 |
| 1 | 1 | 5751 | 1.527 | 34.696 | 6 | 137.69 | 2 | -199.6 | 2.5 | 2 | 5985 |

Station 54

| | | Latitude | | 31.326°N | | | | Date | | 9/9/92 | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|--------|------|
| | | Longitude | | 164.984°E | | | | Bottom Depth | | 5847 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 7 | 27.302 | 34.869 | 2 | 1.46 | 2 | 119.9 | 5.8 | 2 | 4480 |
| 1 | 34 | 21 | 27.303 | 34.869 | 2 | 1.44 | 2 | 108.5 | 5.7 | 2 | 4481 |
| 1 | 32 | 71 | 19.789 | 34.869 | 2 | 1.92 | 2 | 108.8 | 4.1 | 2 | 4483 |
| 1 | 31 | 97 | 18.229 | 34.840 | 2 | 2.27 | 2 | 91.7 | 4.0 | 2 | 4482 |
| 1 | 30 | 121 | 17.610 | 34.809 | 2 | 2.92 | 2 | 103.9 | 3.8 | 2 | 4484 |
| 1 | 28 | 171 | 17.008 | 34.780 | 2 | 3.82 | 2 | 105.1 | 4.3 | 2 | 4487 |
| 1 | 27 | 199 | 16.694 | -9 | 5 | 4.09 | 2 | 116.5 | 3.9 | 2 | 4485 |
| 1 | 26 | 245 | 16.361 | -9 | 5 | 4.99 | 2 | 97.6 | 5.5 | 2 | 4475 |
| 1 | 24 | 344 | 15.055 | 34.628 | 2 | 8.60 | 2 | 97.0 | 5.0 | 2 | 4488 |
| 1 | 23 | 394 | 14.065 | 34.539 | 2 | 11.44 | 2 | 72.6 | 4.7 | 2 | 4477 |
| 1 | 22 | 496 | 11.791 | 34.373 | 2 | 19.58 | 2 | 48.3 | 5.3 | 2 | 4474 |
| 1 | 21 | 593 | 9.399 | 34.167 | 2 | 32.78 | 2 | -2.2 | 3.6 | 2 | 4486 |
| 1 | 20 | 789 | 5.199 | 34.040 | 2 | 77.54 | 2 | -122.2 | 3.1 | 2 | 4478 |
| 1 | 19 | 990 | 3.995 | 34.232 | 2 | 113.26 | 2 | -180.7 | 3.2 | 2 | 4476 |
| 1 | 18 | 1195 | 3.269 | 34.358 | 6 | 134.37 | 2 | -204.3 | 3.5 | 2 | 4472 |
| 1 | 17 | 1393 | 2.765 | 34.444 | 2 | 149.36 | 2 | -227.9 | 3.0 | 2 | 4489 |
| 1 | 16 | 1694 | 2.329 | 34.538 | 2 | 161.41 | 2 | -257.4 | 3.9 | 3 | 4479 |

Station 56

| | | Latitude | | 21.967°N | | | | Date | | 9/30/92 | |
|------|------|-----------|---------|----------|---|------------|---|---------------------|-------|---------|------|
| | | Longitude | | 165.01°E | | | | Bottom Depth | | 5264 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 27.629 | 35.183 | 2 | 0.34 | 2 | 117.8 | 3.6 | 2 | 6125 |
| 1 | 34 | 47 | 24.572 | 35.152 | 2 | 1.16 | 2 | 129.3 | 3.9 | 2 | 6110 |
| 1 | 33 | 71 | 21.089 | 35.128 | 2 | 1.64 | 2 | 113.2 | 3.8 | 2 | 6126 |

Station 56 (Continued)

| | | Latitude | | 21.967°N | | | | Date | | 9/30/92 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 165.01°E | | | | Bottom Depth | | 5264 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 31 | 122 | 18.828 | 34.880 | 2 | 2.82 | 2 | 111.5 | 3.6 | 2 | 6097 |
| 1 | 30 | 146 | 17.597 | 34.816 | 2 | 3.38 | 2 | 107.9 | 3.8 | 2 | 6098 |
| 1 | 29 | 173 | 17.093 | 34.771 | 2 | 4.67 | 2 | 117.4 | 3.4 | 2 | 6114 |
| 1 | 28 | 196 | 16.650 | -9 | 5 | 152.40 | 4 | -228.2 | 2.8 | 4 | 6108 |
| 1 | 26 | 296 | 14.707 | 34.528 | 2 | 10.41 | 2 | 92.5 | 3.2 | 2 | 6116 |
| 1 | 25 | 348 | 12.823 | 34.410 | 2 | 14.66 | 2 | 81.3 | 3.9 | 2 | 6103 |
| 1 | 24 | 396 | 11.246 | 34.314 | 2 | 17.58 | 2 | 63.5 | 3.1 | 2 | 6104 |
| 1 | 23 | 496 | 8.597 | 34.135 | 2 | 34.09 | 2 | 0.6 | 5.4 | 6 | 6106 |
| | | | | | | | | | | | 6111 |
| 1 | 22 | 596 | 6.582 | 34.121 | 2 | 64.15 | 2 | -95.2 | 2.8 | 2 | 6107 |
| 1 | 21 | 692 | 5.555 | 34.217 | 2 | 82.91 | 2 | -141.5 | 2.8 | 2 | 6121 |
| 1 | 20 | 794 | 4.916 | 34.327 | 2 | 97.19 | 2 | -165.6 | 2.8 | 2 | 6101 |
| 1 | 19 | 890 | 4.398 | 34.404 | 2 | 105.61 | 2 | -180.7 | 2.7 | 2 | 6102 |
| 1 | 18 | 993 | 4.087 | 34.462 | 6 | 112.03 | 2 | -192.6 | 2.7 | 2 | 6120 |
| 1 | 17 | 1193 | 3.492 | 34.517 | 2 | 122.06 | 2 | -221.8 | 2.9 | 2 | 6096 |
| 1 | 16 | 1391 | 2.986 | 34.547 | 2 | 134.11 | 2 | -218.5 | 2.5 | 2 | 6119 |
| 1 | 15 | 1595 | 2.537 | 34.576 | 2 | 143.22 | 2 | -229.2 | 2.6 | 2 | 6117 |
| 1 | 14 | 1792 | 2.252 | 34.599 | 2 | 149.17 | 2 | -227.9 | 2.9 | 2 | 6109 |
| 1 | 13 | 2094 | 1.960 | 34.624 | 2 | 153.56 | 2 | -240.3 | 2.6 | 2 | 6115 |
| 1 | 12 | 2396 | 1.781 | 34.647 | 2 | 157.11 | 2 | -234.6 | 3.4 | 2 | 6099 |
| 1 | 11 | 2692 | 1.693 | 34.655 | 2 | 155.54 | 2 | -235.7 | 2.5 | 2 | 6113 |
| 1 | 10 | 2993 | 1.619 | 34.664 | 2 | 154.99 | 2 | -233.1 | 2.5 | 2 | 6105 |
| 1 | 8 | 3595 | 1.508 | 34.677 | 2 | 154.98 | 2 | -232.5 | 3.5 | 2 | 6095 |
| 1 | 7 | 3899 | 1.478 | 34.685 | 2 | 152.24 | 2 | -214.4 | 2.6 | 2 | 6122 |
| 1 | 6 | 4199 | 1.458 | 34.689 | 2 | 147.45 | 2 | -210.2 | 2.9 | 2 | 6123 |
| 1 | 5 | 4501 | 1.442 | 34.691 | 2 | 143.68 | 2 | -214.5 | 2.5 | 2 | 6118 |
| 1 | 3 | 5099 | 1.430 | 34.693 | 2 | 138.47 | 2 | -192.6 | 2.8 | 2 | 6100 |
| 1 | 2 | 5300 | 1.445 | 34.693 | 2 | 138.06 | 2 | -201.2 | 2.7 | 2 | 6112 |
| 1 | 1 | 5353 | 1.448 | 34.697 | 6 | 136.61 | 2 | -196.7 | 2.6 | 2 | 6124 |

Station 59

| | | Latitude | | 19.988°N | | | | Date | | 10/1/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 165.005°E | | | | Bottom Depth | | 5325 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 32 | 96 | 23.501 | 35.228 | 2 | 1.24 | 2 | 110.5 | 3.6 | 2 | 4628 |
| 1 | 30 | 146 | 20.471 | 35.071 | 2 | 2.29 | 2 | 127.7 | 4.1 | 2 | 4673 |
| 1 | 29 | 166 | 19.361 | 34.964 | 2 | 2.88 | 2 | 119.5 | 3.7 | 2 | 4674 |
| 1 | 28 | 195 | 17.860 | 34.842 | 2 | 3.78 | 2 | 118.2 | 5.0 | 2 | 4675 |
| 1 | 27 | 246 | 16.059 | 34.693 | 2 | 6.05 | 2 | 111.3 | 3.4 | 2 | 4676 |

Station 59 (Continued)

| | | Latitude | | 19.988°N | | | | Date | | 10/1/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 165.005°E | | | | Bottom Depth | | 5325 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 26 | 296 | 14.319 | 34.517 | 2 | 9.81 | 2 | 78.3 | 4.0 | 2 | 4677 |
| 1 | 24 | 393 | 11.312 | 34.245 | 2 | 20.65 | 2 | 37.2 | 3.3 | 2 | 4678 |
| 1 | 23 | 493 | 8.047 | 34.116 | 2 | 40.80 | 2 | -45.4 | 6.5 | 2 | 4682 |
| 1 | 21 | 693 | 5.296 | 34.242 | 2 | 84.36 | 2 | -153.6 | 2.9 | 2 | 4680 |
| 1 | 19 | 891 | 4.442 | 34.438 | 2 | 103.16 | 2 | -194.9 | 3.2 | 2 | 4683 |
| 1 | 12 | 2190 | 1.909 | 34.633 | 2 | 152.83 | 2 | -235.6 | 3.1 | 2 | 4966 |
| 1 | 11 | 2496 | 1.733 | 34.649 | 2 | 154.40 | 2 | -237.8 | 2.9 | 2 | 4967 |
| 1 | 10 | 2795 | 1.640 | 34.659 | 2 | 154.58 | 2 | -238.6 | 3.7 | 2 | 4968 |
| 1 | 9 | 3092 | 1.571 | 34.666 | 2 | 154.12 | 2 | -231.8 | 3.7 | 2 | 4685 |
| 1 | 8 | 3398 | 1.515 | 34.670 | 2 | 152.44 | 2 | -237.8 | 2.7 | 2 | 4687 |
| 1 | 7 | 3700 | 1.479 | 34.679 | 2 | 150.38 | 2 | -233.7 | 2.7 | 2 | 4681 |
| 1 | 6 | 3997 | 1.455 | 34.689 | 2 | 148.25 | 2 | -216.4 | 2.8 | 2 | 4686 |
| 1 | 5 | 4300 | 1.432 | 34.690 | 2 | 143.80 | 2 | -217.9 | 3.4 | 2 | 4679 |
| 1 | 4 | 4599 | 1.415 | 34.692 | 2 | 139.59 | 2 | -218.6 | 3.4 | 2 | 4688 |
| 1 | 2 | 5101 | 1.415 | 34.696 | 2 | 134.60 | 2 | -201.9 | 2.9 | 2 | 4684 |
| 1 | 1 | 5415 | 1.439 | 34.697 | 6 | 133.25 | 2 | -202.6 | 4.5 | 2 | 4689 |

Station 63

| | | Latitude | | 24.042°N | | | | Date | | 10/4/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 164.985°E | | | | Bottom Depth | | 5403 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 8 | 27.233 | 35.154 | 2 | 1.07 | 2 | 106.1 | 3.7 | 2 | 4490 |
| 1 | 34 | 21 | 27.134 | 35.155 | 2 | 1.16 | 2 | 104.3 | 3.7 | 2 | 4491 |
| 1 | 32 | 60 | 25.853 | -9 | 5 | 1.30 | 2 | 107.5 | 6.5 | 2 | 4585 |
| 1 | 30 | 122 | 19.811 | 35.151 | 2 | 2.46 | 2 | 108.1 | 3.8 | 2 | 4492 |
| 1 | 29 | 147 | 19.051 | 35.019 | 2 | 2.77 | 2 | 95.7 | 5.1 | 2 | 4493 |
| 1 | 28 | 171 | 17.867 | 34.981 | 2 | 3.19 | 2 | 115.6 | 3.7 | 2 | 4494 |
| 1 | 27 | 197 | 17.056 | 34.878 | 2 | 3.70 | 2 | 116.0 | 3.7 | 2 | 4495 |
| 1 | 26 | 221 | 16.768 | 34.811 | 2 | 4.40 | 2 | 116.3 | 7.1 | 2 | 4496 |
| 1 | 25 | 246 | 16.370 | 34.755 | 2 | 5.07 | 2 | 133.0 | 4.0 | 2 | 4497 |
| 1 | 24 | 297 | 15.555 | 34.678 | 2 | 6.84 | 2 | 117.4 | 3.7 | 2 | 4498 |
| 1 | 23 | 347 | 14.216 | 34.552 | 2 | 10.37 | 2 | 99.4 | 4.0 | 2 | 4499 |
| 1 | 22 | 386 | 12.820 | 34.423 | 2 | 13.77 | 2 | 86.1 | 4.1 | 2 | 4501 |
| 1 | 21 | 495 | 9.540 | 34.187 | 2 | 25.92 | 2 | 28.5 | 4.8 | 2 | 4502 |
| 1 | 20 | 595 | 7.534 | 34.095 | 2 | 39.86 | 2 | -13.5 | 3.8 | 2 | 4503 |
| 1 | 19 | 698 | 5.724 | 34.079 | 2 | 65.07 | 2 | -87.0 | 4.1 | 2 | 4586 |
| 1 | 18 | 796 | 4.917 | 34.153 | 2 | 89.92 | 2 | -141.1 | 3.4 | 2 | 4587 |

Station 64

| | | Latitude | | | | 26.018°N | | | | Date | | 10/5/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|------|---------|--|
| | | Longitude | | | | 165.064°E | | | | Bottom Depth | | 4237 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 1 | -9 | 159.500 | 34.688 | 6 | -9 | 5 | -218.3 | 2.8 | 2 | | | |
| 1 | 36 | 7 | 26.395 | 35.275 | 2 | 0.59 | 2 | 128.6 | 3.1 | 2 | 6341 | | |
| 1 | 34 | 22 | 26.348 | 35.281 | 2 | 0.61 | 2 | 108.0 | 3.0 | 2 | 6352 | | |
| 1 | 32 | 71 | 23.058 | 35.332 | 2 | 0.70 | 2 | 114.0 | 4.0 | 2 | 6338 | | |
| 1 | 31 | 95 | 22.095 | 35.301 | 2 | 1.24 | 2 | 105.2 | 6.0 | 2 | 6346 | | |
| 1 | 30 | 119 | 20.819 | 35.263 | 2 | 1.43 | 2 | 123.2 | 3.1 | 2 | 6356 | | |
| 1 | 29 | 144 | 19.244 | 35.097 | 2 | 2.05 | 2 | 113.2 | 3.3 | 2 | 6342 | | |
| 1 | 28 | 171 | 18.527 | 34.991 | 2 | 2.45 | 2 | 129.2 | 3.6 | 2 | 6129 | | |
| 1 | 27 | 195 | 17.858 | 34.903 | 2 | 2.95 | 2 | 129.4 | 3.1 | 2 | 6340 | | |
| 1 | 25 | 294 | 15.563 | 34.673 | 2 | 6.38 | 2 | 107.6 | 3.5 | 2 | 6349 | | |
| 1 | 22 | 494 | 10.403 | 34.285 | 2 | 20.25 | 2 | 45.8 | 2.7 | 6 | 6337 | | |
| | | | | | | | | | | | 6354 | | |
| | | | | | | | | | | | 6343 | | |
| 1 | 21 | 589 | 7.908 | 34.123 | 2 | 33.64 | 2 | 1.3 | 3.7 | 2 | 6344 | | |
| 1 | 20 | 686 | 6.117 | 34.038 | 2 | 57.08 | 2 | -58.7 | 3.1 | 2 | 6130 | | |
| 1 | 19 | 790 | 5.022 | -9 | 5 | 80.71 | 2 | -118.6 | 2.9 | 2 | 6336 | | |
| 1 | 18 | 885 | 4.314 | 34.177 | 2 | 100.03 | 2 | -152.6 | 3.0 | 2 | 6131 | | |
| 1 | 17 | 991 | 3.850 | 34.267 | 2 | 114.53 | 2 | -183.8 | 2.8 | 2 | 6335 | | |
| 1 | 16 | 1091 | 3.468 | 34.341 | 2 | 125.61 | 2 | -186.5 | 2.6 | 2 | 6357 | | |
| 1 | 15 | 1194 | 3.159 | 34.412 | 2 | 135.88 | 2 | -219.9 | 2.7 | 2 | 6333 | | |
| 1 | 14 | 1292 | 2.960 | 34.452 | 2 | 141.86 | 2 | -222.1 | 3.0 | 2 | 6332 | | |
| 1 | 13 | 1393 | 2.716 | 34.497 | 2 | 147.30 | 2 | -221.7 | 2.8 | 2 | 6351 | | |
| 1 | 12 | 1593 | 2.379 | 34.544 | 2 | 153.17 | 2 | -232.7 | 3.1 | 2 | 6334 | | |
| 1 | 11 | 1792 | 2.120 | 34.580 | 2 | 158.79 | 2 | -235.2 | 2.8 | 2 | 6353 | | |
| 1 | 10 | 1995 | 1.954 | 34.612 | 2 | 159.20 | 2 | -236.9 | 2.7 | 2 | 6355 | | |
| 1 | 8 | 2495 | 1.689 | 34.646 | 2 | 156.68 | 2 | -236.3 | 2.5 | 2 | 6339 | | |
| 1 | 7 | 2793 | 1.605 | 34.657 | 2 | 156.36 | 2 | -240.2 | 2.6 | 2 | 6345 | | |
| 1 | 6 | 3095 | 1.544 | 34.667 | 2 | 155.64 | 2 | -229.5 | 2.8 | 2 | 6132 | | |
| 1 | 5 | 3397 | 1.507 | 34.673 | 2 | 154.12 | 2 | -227.9 | 2.8 | 2 | 6128 | | |
| 1 | 4 | 3700 | 1.480 | 34.680 | 2 | 152.08 | 2 | -223.7 | 2.5 | 2 | 6350 | | |
| 1 | 3 | 3999 | 1.463 | 34.686 | 2 | 146.45 | 2 | -223.2 | 2.6 | 2 | 6127 | | |
| 1 | 2 | 4298 | 1.448 | 34.686 | 2 | 150.63 | 2 | -214.6 | 3.6 | 2 | 6347 | | |

Station 65

| | | Latitude | | | | 28.034°N | | | | Date | | 10/5/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|------|---------|--|
| | | Longitude | | | | 164.999°E | | | | Bottom Depth | | 5732 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 36 | 7 | 26.094 | 35.089 | 2 | 1.43 | 2 | 113.5 | 4.0 | 2 | 3877 | | |
| 1 | 35 | 22 | 26.099 | 35.088 | 2 | 1.44 | 2 | 115.8 | 4.4 | 2 | 3870 | | |

Station 65 (Continued)

| | | Latitude | | 28.034°N | | | | Date | | 10/5/92 | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|---------|------|
| | | Longitude | | 164.999°E | | | | Bottom Depth | | 5732 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 34 | 44 | 26.099 | 35.092 | 2 | 1.55 | 2 | 117.4 | 4.3 | 2 | 3878 |
| 1 | 33 | 71 | 21.590 | 34.794 | 2 | 1.97 | 2 | 119.1 | 8.2 | 2 | 3879 |
| 1 | 32 | 93 | 17.332 | 34.739 | 2 | 2.99 | 2 | 113.2 | 3.4 | 2 | 3871 |
| 1 | 31 | 121 | 16.149 | 34.723 | 2 | 4.79 | 2 | 97.0 | 4.8 | 2 | 3872 |
| 1 | 30 | 145 | 15.897 | 34.715 | 2 | 5.23 | 2 | 105.2 | 3.1 | 2 | 3974 |
| 1 | 29 | 169 | 15.681 | 34.701 | 2 | 5.77 | 2 | 118.6 | 3.1 | 2 | 3873 |
| 1 | 28 | 196 | 15.401 | 34.674 | 2 | 6.59 | 2 | 107.4 | 3.4 | 2 | 3975 |
| 1 | 27 | 243 | 14.930 | 34.638 | 2 | 7.76 | 2 | 110.8 | 4.0 | 2 | 3880 |
| 1 | 26 | 296 | 14.053 | 34.546 | 2 | 10.59 | 2 | 95.0 | 4.0 | 2 | 3881 |
| 1 | 25 | 345 | 13.592 | 34.487 | 2 | 12.58 | 2 | 89.0 | 3.5 | 2 | 3874 |
| 1 | 23 | 494 | 10.539 | 34.234 | 2 | 26.07 | 2 | 37.0 | 5.6 | 2 | 3882 |
| 1 | 22 | 594 | 7.556 | 34.071 | 2 | 42.93 | 2 | -12.6 | 3.3 | 2 | 3875 |
| 1 | 19 | 894 | 4.146 | 34.194 | 2 | 106.85 | 2 | -154.4 | 3.3 | 2 | 3883 |
| 1 | 18 | 994 | 3.678 | 34.265 | 6 | 119.82 | 2 | -179.4 | 5.6 | 2 | 3884 |
| 1 | 17 | 1192 | 3.104 | 34.395 | 2 | 140.75 | 2 | -207.9 | 4.5 | 2 | 3885 |

Station 66

| | | Latitude | | 16.009°N | | | | Date | | 10/8/92 | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|---------|------|
| | | Longitude | | 164.992°E | | | | Bottom Depth | | 5224 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 21 | 28.603 | 34.706 | 2 | 0.59 | 2 | 112.5 | 3.9 | 2 | 3284 |
| 1 | 34 | 47 | 28.608 | 34.704 | 2 | 0.57 | 2 | 104.7 | 3.9 | 2 | 3272 |
| 1 | 33 | 70 | 27.066 | 34.710 | 2 | 0.61 | 2 | 124.8 | 5.0 | 2 | 3293 |
| 1 | 32 | 95 | 25.595 | 35.104 | 2 | 0.88 | 2 | 116.6 | 5.0 | 2 | 3294 |
| 1 | 30 | 147 | 22.563 | 35.238 | 2 | 1.28 | 2 | 129.2 | 3.8 | 2 | 3277 |
| 1 | 29 | 172 | 19.277 | 34.927 | 2 | 2.91 | 2 | 118.5 | 4.0 | 2 | 3285 |
| 1 | 28 | 196 | 17.170 | 34.847 | 2 | 4.49 | 2 | 97.3 | 3.7 | 2 | 4616 |
| 1 | 27 | 246 | 13.740 | 34.496 | 2 | 11.25 | 2 | 81.8 | 3.7 | 2 | 3289 |
| 1 | 26 | 295 | 11.577 | 34.300 | 2 | 22.95 | 2 | 36.0 | 3.3 | 2 | 3270 |
| 1 | 24 | 396 | 8.660 | 34.322 | 2 | 42.54 | 2 | -55.4 | 4.7 | 2 | 3292 |
| 1 | 23 | 496 | 7.529 | -9 | 5 | 54.61 | 2 | -115.1 | 3.2 | 2 | 3276 |
| 1 | 22 | 594 | 6.732 | 34.478 | 2 | 64.12 | 2 | -137.9 | 3.6 | 2 | 3275 |
| 1 | 21 | 695 | 5.995 | 34.493 | 2 | 73.05 | 2 | -159.8 | 3.3 | 2 | 3271 |
| 1 | 20 | 792 | 5.527 | 34.501 | 2 | 81.18 | 2 | -165.3 | 4.0 | 2 | 3296 |
| 1 | 19 | 895 | 5.051 | 34.514 | 2 | 88.67 | 2 | -163.8 | 4.2 | 3 | 3291 |
| 1 | 18 | 993 | 4.623 | 34.527 | 6 | 95.54 | 2 | -169.7 | 3.2 | 3 | 3279 |
| 1 | 17 | 1095 | 4.228 | 34.538 | 2 | 102.74 | 2 | -204.8 | 5.6 | 2 | 3274 |
| 1 | 16 | 1192 | 3.840 | 34.547 | 2 | 111.12 | 2 | -208.1 | 2.8 | 2 | 3280 |
| 1 | 14 | 1493 | 3.034 | 34.581 | 2 | 118.46 | 4 | -217.5 | 3.3 | 4 | 3282 |

Station 66 (Continued)

| | | Latitude | | 16.009°N | | Date | | 10/8/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.992°E | | Bottom Depth | | 5224 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 13 | 1695 | 2.664 | 34.595 | 2 | 138.36 | 2 | -233.9 | 3.0 | 2 | 3281 |
| 1 | 11 | 2292 | 1.966 | 34.642 | 2 | 149.96 | 2 | -220.8 | 4.8 | 3 | 3290 |
| 1 | 10 | 2595 | 1.804 | 34.656 | 2 | 153.15 | 2 | -235.0 | 3.1 | 2 | 3286 |
| 1 | 8 | 3196 | 1.589 | 34.671 | 2 | 155.97 | 2 | -234.5 | 3.1 | 2 | 3269 |
| 1 | 7 | 3498 | 1.533 | 34.676 | 2 | 153.63 | 2 | -227.8 | 3.8 | 2 | 3283 |
| 1 | 6 | 3797 | 1.500 | 34.681 | 2 | 151.11 | 2 | -223.6 | 4.0 | 2 | 3295 |
| 1 | 5 | 4099 | 1.468 | 34.684 | 2 | 148.20 | 2 | -219.0 | 3.3 | 2 | 3273 |
| 1 | 4 | 4400 | 1.438 | 34.690 | 2 | 144.01 | 2 | -226.4 | 3.5 | 3 | 3397 |
| 1 | 3 | 4699 | 1.416 | 34.695 | 2 | 138.36 | 2 | -195.9 | 2.9 | 2 | 3288 |
| 1 | 2 | 4900 | 1.414 | 34.697 | 2 | 135.56 | 2 | -190.7 | 2.9 | 2 | 3278 |
| 1 | 1 | 5112 | 1.416 | 34.698 | 6 | 134.66 | 2 | -198.8 | 3.8 | 2 | 3287 |

Station 67

| | | Latitude | | 14.008°N | | Date | | 10/9/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|--------------|
| | | Longitude | | 164.990°E | | Bottom Depth | | 5308 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 34 | 46 | 28.673 | 34.669 | 2 | 0.66 | 2 | 110.2 | 3.3 | 2 | 7011 |
| 1 | 33 | 71 | 28.007 | 34.719 | 2 | 0.72 | 2 | 85.8 | 3.4 | 2 | 7017 |
| 1 | 32 | 96 | 26.354 | 34.688 | 2 | 1.06 | 2 | 89.9 | 3.9 | 2 | 7010 |
| 1 | 31 | 121 | 25.250 | 35.045 | 2 | 1.05 | 2 | 104.7 | 3.3 | 2 | 7013 |
| 1 | 30 | 145 | 23.084 | 35.094 | 2 | 1.38 | 2 | 110.5 | 3.4 | 2 | 7009 |
| 1 | 29 | 169 | 21.232 | 34.982 | 2 | 2.79 | 2 | 99.3 | 4.7 | 2 | 7004 |
| 1 | 27 | 244 | 13.967 | 34.581 | 2 | 8.47 | 2 | 88.2 | 5.0 | 2 | 7002 |
| 1 | 26 | 295 | 10.472 | 34.298 | 2 | 21.64 | 2 | 10.5 | 3.2 | 2 | 7005 |
| 1 | 24 | 400 | 8.322 | 34.358 | 2 | 42.35 | 2 | -91.5 | 2.7 | 2 | 7019 |
| 1 | 23 | 495 | 7.389 | 34.479 | 2 | 52.15 | 2 | -135.5 | 14.6 | 6 | 7006 7012 |
| 1 | 22 | 593 | 6.664 | 34.480 | 2 | 63.33 | 2 | -142.8 | 4.1 | 2 | 7014 |
| 1 | 21 | 693 | 6.085 | 34.496 | 2 | 72.07 | 2 | -172.1 | 2.8 | 2 | 7008 |
| 1 | 20 | 793 | 5.519 | 34.504 | 2 | 79.08 | 2 | -172.2 | 3.9 | 2 | 7016 |
| 1 | 19 | 893 | 5.005 | 34.517 | 2 | 87.26 | 2 | -188.8 | 2.6 | 2 | 7003 |
| 1 | 18 | 993 | 4.672 | 34.533 | 6 | 95.65 | 2 | -198.1 | 2.6 | 2 | 7020 |
| 1 | 17 | 1121 | 4.226 | 34.544 | 2 | 104.85 | 2 | -214.9 | 2.9 | 2 | 7018 |
| 1 | 16 | 1291 | 3.644 | 34.562 | 2 | 116.07 | 2 | -208.8 | 3.0 | 2 | 7015 |

Station 68

| | | Latitude | | 12.590°N | | Date | | 10/9/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.367°E | | Bottom Depth | | 4879 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 28.936 | 34.382 | 2 | 0.57 | 2 | 110.3 | 4.2 | 2 | 3300 |
| 1 | 35 | 6 | 28.936 | 34.381 | 2 | 0.54 | 2 | 101.8 | 4.1 | 2 | 3297 |
| 1 | 34 | 22 | 28.972 | 34.500 | 2 | 0.71 | 2 | 103.3 | 3.9 | 2 | 3302 |
| 1 | 32 | 71 | 27.732 | 34.709 | 2 | 0.88 | 2 | 80.5 | 3.8 | 3 | 3304 |
| 1 | 30 | 120 | 23.069 | 34.764 | 2 | 1.08 | 2 | 106.1 | 4.5 | 2 | 3313 |
| 1 | 27 | 233 | 11.779 | -9 | 1 | 19.78 | 2 | 41.1 | 3.5 | 2 | 3310 |
| 1 | 26 | 294 | 9.302 | 34.403 | 2 | 32.70 | 2 | -40.6 | 3.6 | 2 | 3314 |
| 1 | 25 | 342 | 8.383 | 34.405 | 2 | 42.11 | 2 | -85.0 | 3.5 | 2 | 3307 |
| 1 | 24 | 393 | 8.214 | 34.451 | 2 | 48.28 | 2 | -101.7 | 3.2 | 2 | 3311 |
| 1 | 23 | 493 | 7.143 | 34.489 | 2 | 56.38 | 2 | -124.1 | 3.3 | 2 | 3298 |
| 1 | 20 | 794 | 5.488 | 34.519 | 2 | 78.09 | 2 | -159.0 | 3.1 | 2 | 3309 |
| 1 | 19 | 892 | 5.064 | 34.527 | 2 | 86.20 | 2 | -176.7 | 3.0 | 2 | 3308 |
| 1 | 18 | 992 | 4.604 | 34.539 | 6 | 94.43 | 2 | -205.7 | 3.3 | 3 | 3305 |
| 1 | 17 | 1094 | 4.242 | 34.553 | 2 | 101.93 | 2 | -197.9 | 3.0 | 2 | 3306 |
| 1 | 16 | 1193 | 3.831 | 34.565 | 2 | 111.07 | 2 | -209.9 | 3.0 | 2 | 3312 |
| 1 | 15 | 1290 | 3.453 | 34.575 | 2 | 117.82 | 2 | -208.7 | 3.8 | 2 | 3299 |
| 1 | 14 | 1394 | 3.126 | 34.584 | 2 | 125.03 | 2 | -215.0 | 3.0 | 2 | 3303 |

Station 69

| | | Latitude | | 10.008°N | | Date | | 10/10/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.002°E | | Bottom Depth | | 5059 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 29.162 | 34.353 | 2 | 0.71 | 2 | 104.0 | 3.4 | 2 | 6745 |
| 1 | 31 | 121 | 19.645 | 34.874 | 2 | 3.73 | 2 | 100.1 | 3.2 | 2 | 6752 |
| 1 | 30 | 145 | 16.397 | 34.638 | 2 | 10.11 | 2 | 76.0 | 3.5 | 2 | 6777 |
| 1 | 29 | 171 | 13.905 | 34.471 | 2 | 18.29 | 2 | 28.4 | 3.0 | 2 | 6768 |
| 1 | 28 | 196 | 12.005 | 34.483 | 2 | 23.67 | 2 | 1.3 | 3.1 | 2 | 6769 |
| 1 | 27 | 245 | 10.527 | 34.579 | 2 | 31.45 | 2 | -49.6 | 2.9 | 2 | 6750 |
| 1 | 26 | 294 | 9.772 | 34.612 | 2 | 36.01 | 2 | -81.9 | 2.7 | 2 | 6767 |
| 1 | 25 | 345 | 9.384 | 34.632 | 2 | 36.76 | 2 | -95.9 | 2.8 | 2 | 6751 |
| 1 | 24 | 395 | 9.063 | 34.623 | 2 | 40.14 | 2 | -93.2 | 3.1 | 2 | 6759 |
| 1 | 23 | 496 | 8.213 | 34.595 | 2 | 44.07 | 2 | -101.8 | 2.8 | 2 | 6758 |
| 1 | 22 | 594 | 7.436 | 34.557 | 2 | 52.07 | 2 | -124.4 | 2.8 | 2 | 6778 |
| 1 | 21 | 692 | 6.780 | 34.542 | 2 | 59.96 | 2 | -134.0 | 2.8 | 2 | 6757 |
| 1 | 20 | 794 | 6.083 | 34.539 | 2 | 67.79 | 2 | -146.3 | 4.3 | 2 | 6772 |
| 1 | 19 | 894 | 5.543 | 34.537 | 2 | 76.62 | 2 | -159.0 | 3.1 | 2 | 6780 |
| 1 | 18 | 994 | 5.008 | 34.541 | 2 | 87.05 | 2 | -177.9 | 3.3 | 2 | 6753 |
| 1 | 17 | 1092 | 4.502 | 34.547 | 2 | 96.96 | 2 | -187.3 | 2.6 | 2 | 6760 |
| 1 | 16 | 1189 | 4.041 | 34.560 | 2 | 104.28 | 2 | -202.3 | 3.3 | 2 | 6773 |

Station 69 (Continued)

| | | Latitude | | 10.008°N | | | | Date | | 10/10/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|----------|------|
| | | Longitude | | 165.002°E | | | | Bottom Depth | | 5059 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 15 | 1294 | 3.731 | 34.569 | 2 | 110.90 | 2 | -205.2 | 2.8 | 2 | 6766 |
| 1 | 14 | 1492 | 3.108 | 34.592 | 2 | 122.98 | 2 | -214.1 | 3.0 | 2 | 6779 |
| 1 | 13 | 1694 | 2.685 | 34.610 | 2 | 134.87 | 2 | -231.0 | 2.5 | 2 | 6754 |
| 1 | 12 | 1995 | 2.244 | 34.633 | 2 | 144.28 | 2 | -235.5 | 2.5 | 2 | 6771 |
| 1 | 11 | 2293 | 2.026 | 34.649 | 2 | 150.21 | 2 | -238.9 | 2.7 | 2 | 6776 |
| 1 | 10 | 2596 | 1.856 | 34.659 | 2 | 153.27 | 2 | -235.9 | 2.5 | 2 | 6770 |
| 1 | 9 | 2895 | 1.729 | 34.667 | 2 | 153.71 | 2 | -231.3 | 2.5 | 2 | 6762 |
| 1 | 8 | 3195 | 1.616 | 34.673 | 2 | 151.86 | 2 | -227.2 | 2.6 | 2 | 6775 |
| 1 | 7 | 3497 | 1.527 | 34.682 | 2 | 150.37 | 2 | -218.2 | 2.6 | 2 | 6774 |
| 1 | 6 | 3797 | 1.451 | 34.685 | 2 | 146.11 | 2 | -210.4 | 2.8 | 2 | 6756 |
| 1 | 5 | 4099 | 1.422 | 34.690 | 2 | 141.75 | 2 | -199.3 | 3.0 | 2 | 6755 |
| 1 | 4 | 4375 | 1.417 | 34.692 | 2 | 138.84 | 2 | -333.5 | 3.4 | 4 | 6761 |
| 1 | 3 | 4701 | 1.379 | 34.698 | 2 | 132.66 | 2 | -188.3 | 3.3 | 2 | 6765 |
| 1 | 2 | 4899 | 1.358 | 34.702 | 2 | 129.56 | 2 | -180.8 | 2.6 | 2 | 6763 |
| 1 | 1 | 5139 | 1.379 | 34.702 | 6 | 128.95 | 2 | -180.3 | 4.5 | 2 | 6764 |

Station 70

| | | Latitude | | 8.014°N | | | | Date | | 10/11/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|----------|------|
| | | Longitude | | 165.021°E | | | | Bottom Depth | | 5179 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 21 | 29.500 | 34.115 | 2 | 0.53 | 2 | 99.1 | 3.5 | 2 | 4617 |
| 1 | 34 | 47 | 29.512 | 34.130 | 2 | 0.56 | 2 | 84.9 | 3.4 | 2 | 4618 |
| 1 | 33 | 71 | 28.764 | 34.830 | 2 | 0.74 | 2 | 99.7 | 4.5 | 2 | 4619 |
| 1 | 32 | 96 | 26.433 | 34.777 | 2 | 1.69 | 2 | 89.0 | 6.5 | 2 | 4620 |
| 1 | 30 | 146 | 16.459 | 34.587 | 2 | 12.47 | 2 | 48.7 | 3.2 | 2 | 4621 |
| 1 | 28 | 196 | 11.065 | 34.549 | 2 | 29.66 | 2 | -59.9 | 3.0 | 2 | 4623 |
| 1 | 27 | 220 | 10.498 | 34.581 | 2 | 32.69 | 2 | -87.7 | 4.0 | 3 | 4622 |
| 1 | 26 | 245 | 10.079 | 34.629 | 2 | 34.36 | 2 | -72.6 | 4.0 | 2 | 4624 |
| 1 | 22 | 495 | 8.302 | 34.595 | 2 | 44.47 | 2 | -110.6 | 3.1 | 2 | 4625 |
| 1 | 21 | 595 | 7.445 | 34.550 | 2 | 55.09 | 2 | -133.2 | 3.3 | 2 | 4626 |
| 1 | 20 | 693 | 6.653 | 34.547 | 2 | 63.52 | 2 | -157.1 | 3.9 | 2 | 4627 |

Station 71

| | | Latitude | | 6.003°N | | Date | | 10/12/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 165.018°E | | Bottom Depth | | 4864 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 6 | 29.532 | 34.039 | 2 | 0.38 | 2 | 88.6 | 3.8 | 2 | 5437 |
| 1 | 35 | 20 | 29.533 | 34.037 | 2 | 0.45 | 2 | 86.2 | 3.2 | 2 | 5443 |
| 1 | 33 | 70 | 28.921 | 34.781 | 2 | 0.56 | 2 | 93.1 | 3.0 | 3 | 5442 |
| 1 | 32 | 95 | 26.530 | 34.760 | 2 | 1.61 | 2 | 95.9 | 3.0 | 2 | 5433 |
| 1 | 31 | 120 | 22.016 | 34.756 | 2 | 4.42 | 2 | 95.0 | 3.2 | 2 | 5446 |
| 1 | 30 | 145 | 19.024 | 34.767 | 2 | 7.31 | 2 | 95.2 | 3.1 | 2 | 5438 |
| 1 | 29 | 170 | 14.947 | 34.570 | 2 | 14.85 | 2 | 55.5 | 2.9 | 2 | 5445 |
| 1 | 28 | 196 | 12.014 | 34.515 | 2 | 24.20 | 2 | -4.3 | 3.8 | 2 | 5435 |
| 1 | 26 | 244 | 10.402 | 34.636 | 2 | 32.24 | 2 | -59.5 | 2.7 | 2 | 5441 |
| 1 | 24 | 295 | 9.450 | 34.633 | 2 | 34.88 | 2 | -76.9 | 2.9 | 2 | 5439 |
| 1 | 22 | 394 | 8.519 | 34.624 | 2 | 38.55 | 2 | -105.2 | 4.5 | 2 | 5434 |
| 1 | 20 | 492 | 7.757 | 34.592 | 2 | 45.28 | 2 | -120.2 | 1.8 | 6 | 5436 |
| | | | | | | | | | | | 5447 |
| 1 | 19 | 591 | 6.984 | 34.567 | 2 | 53.06 | 2 | -137.2 | 2.6 | 2 | 5444 |
| 1 | 17 | 793 | 5.575 | 34.538 | 2 | 74.92 | 2 | -159.1 | 2.9 | 2 | 5440 |

Station 72

| | | Latitude | | 4.001°N | | Date | | 10/12/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 165.005°E | | Bottom Depth | | 4425 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 29.596 | 33.959 | 2 | 0.61 | 2 | 76.7 | 4.2 | 2 | 4692 |
| 1 | 35 | 22 | 29.570 | 33.962 | 2 | 0.65 | 2 | 83.2 | 4.2 | 2 | 4693 |
| 1 | 33 | 72 | 27.276 | 34.765 | 2 | 1.21 | 2 | 102.7 | 3.3 | 2 | 4694 |
| 1 | 32 | 97 | 23.798 | 34.748 | 2 | 2.61 | 2 | 90.2 | 3.7 | 2 | 4695 |
| 1 | 29 | 171 | 17.022 | 34.760 | 2 | 9.57 | 2 | 90.7 | 5.1 | 2 | 4696 |
| 1 | 28 | 195 | 15.438 | 34.707 | 2 | 14.62 | 2 | 40.3 | 4.1 | 2 | 4691 |
| 1 | 26 | 246 | 11.997 | 34.538 | 2 | 24.44 | 2 | 13.2 | 3.9 | 2 | 4697 |
| 1 | 25 | 294 | 10.104 | 34.615 | 2 | 34.19 | 2 | -88.9 | 3.0 | 2 | 4698 |
| 1 | 22 | 445 | 8.068 | 34.602 | 2 | 43.55 | 2 | -111.2 | 4.9 | 2 | 4699 |
| 1 | 21 | 495 | 7.687 | 34.586 | 2 | 43.93 | 2 | -112.6 | 6.3 | 6 | 4700 |
| | | | | | | | | | | | 4701 |
| 1 | 20 | 595 | 6.871 | 34.561 | 2 | 54.57 | 2 | -141.6 | 4.8 | 2 | 4702 |
| 1 | 19 | 695 | 6.046 | 34.548 | 2 | 63.45 | 2 | -144.6 | 3.0 | 2 | 4969 |
| 1 | 18 | 794 | 5.578 | 34.543 | 6 | 70.15 | 2 | -156.1 | 5.9 | 2 | 4703 |
| 1 | 17 | 894 | 5.088 | 34.544 | 2 | 77.97 | 2 | -191.8 | 3.3 | 4 | 4704 |
| 1 | 16 | 992 | 4.715 | 34.551 | 2 | 85.56 | 2 | -173.5 | 2.6 | 2 | 4705 |
| 1 | 14 | 1193 | 3.927 | 34.570 | 2 | 101.58 | 2 | -193.6 | 2.6 | 2 | 4706 |
| 1 | 12 | 1393 | 3.434 | 34.585 | 2 | 114.79 | 2 | -206.1 | 2.7 | 2 | 4707 |
| 1 | 10 | 1692 | 2.686 | 34.615 | 2 | 132.03 | 2 | -231.6 | 2.6 | 2 | 4708 |

Station 72 (Continued)

| | | Latitude | | 4.001°N | | Date | | 10/12/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 165.005°E | | Bottom Depth | | 4425 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 9 | 1992 | 2.196 | 34.638 | 2 | 143.48 | 2 | -242.6 | 2.6 | 2 | 4709 |
| 1 | 8 | 2292 | 1.899 | 34.654 | 2 | 148.59 | 2 | -241.1 | 2.8 | 2 | 4710 |
| 1 | 7 | 2594 | 1.757 | 34.662 | 2 | 150.76 | 2 | -235.5 | 3.1 | 2 | 4711 |
| 1 | 6 | 2894 | 1.676 | 34.667 | 2 | 149.41 | 2 | -228.7 | 2.6 | 2 | 4712 |
| 1 | 5 | 3195 | 1.596 | 34.673 | 2 | 148.25 | 2 | -225.5 | 3.7 | 2 | 4970 |
| 1 | 4 | 3497 | 1.518 | 34.680 | 2 | 146.70 | 2 | -220.3 | 2.9 | 2 | 4971 |
| 1 | 2 | 4099 | 1.476 | 34.686 | 2 | 142.59 | 2 | -211.2 | 3.7 | 2 | 4972 |
| 1 | 1 | 4486 | 1.413 | 34.693 | 2 | 136.50 | 2 | -204.9 | 3.4 | 2 | 4690 |

Station 73

| | | Latitude | | 3.002°N | | Date | | 10/12/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.993°E | | Bottom Depth | | 4222 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 33 | 6 | 29.613 | 33.908 | 2 | 2.00 | 2 | 103.4 | 3.4 | 2 | 7021 |
| 1 | 31 | 45 | 29.462 | 33.999 | 2 | 4.63 | 2 | 92.4 | 3.1 | 2 | 7022 |
| 1 | 30 | 70 | 27.247 | 34.684 | 2 | 6.57 | 2 | 102.1 | 3.9 | 2 | 7023 |
| 1 | 29 | 96 | 24.665 | 34.947 | 2 | 10.28 | 2 | 67.1 | 3.6 | 2 | 7024 |
| 1 | 28 | 119 | 23.392 | 35.056 | 2 | 12.72 | 2 | 98.5 | 6.5 | 2 | 7025 |
| 1 | 27 | 144 | 21.404 | 34.978 | 2 | 20.16 | 2 | 91.5 | 7.6 | 2 | 7026 |
| 1 | 26 | 169 | 18.550 | 34.822 | 2 | 25.31 | 2 | 65.2 | 3.4 | 2 | 7027 |
| 1 | 25 | 197 | 17.354 | 34.713 | 2 | 29.56 | 2 | 58.1 | 2.9 | 2 | 7282 |
| 1 | 23 | 244 | 12.230 | 34.605 | 2 | 38.45 | 2 | -3.8 | 2.6 | 2 | 7283 |
| 1 | 22 | 294 | 10.881 | 34.642 | 2 | 41.65 | 2 | -30.6 | 2.6 | 2 | 7284 |
| 1 | 18 | 491 | 8.034 | 34.566 | 2 | -9 | 5 | -99.0 | 6.6 | 6 | 7285 |
| | | | | | | | | | | | 7286 |
| 1 | 17 | 590 | 7.261 | 34.562 | 2 | 79.03 | 2 | -171.7 | 4.9 | 3 | 7641 |
| 1 | 12 | 1190 | 3.915 | 34.570 | 2 | -9 | 5 | -200.5 | 2.4 | 2 | 7287 |

Station 74

| | | Latitude | | 1.996°N | | Date | | 10/13/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.990°E | | Bottom Depth | | 4170 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 30.041 | 34.227 | 2 | 0.55 | 2 | 90.6 | 5.2 | 2 | 6359 |
| 1 | 35 | 20 | 29.931 | 34.224 | 2 | 0.62 | 2 | 102.2 | 6.7 | 2 | 6365 |
| 1 | 34 | 46 | 29.901 | 34.244 | 2 | 0.74 | 2 | 88.7 | 3.0 | 2 | 6536 |
| 1 | 32 | 96 | 24.233 | 34.951 | 2 | 5.17 | 2 | 101.6 | 3.5 | 2 | 6361 |
| 1 | 31 | 120 | 22.601 | 34.915 | 2 | 6.82 | 2 | 82.5 | 4.2 | 2 | 6538 |

Station 74 (Continued)

| | | Latitude | | 1.996°N | | Date | | 10/13/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.990°E | | Bottom Depth | | 4170 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 30 | 146 | 20.900 | 34.889 | 2 | 7.97 | 2 | 86.8 | 5.1 | 2 | 6364 |
| 1 | 28 | 196 | 15.877 | 34.686 | 2 | 14.34 | 2 | -16.5 | 6.4 | 3 | 6544 |
| 1 | 27 | 245 | 12.682 | 34.890 | 2 | 16.74 | 2 | 9.8 | 2.6 | 2 | 6545 |
| 1 | 26 | 295 | 11.716 | 34.841 | 2 | 19.96 | 2 | -12.9 | 3.0 | 2 | 6371 |
| 1 | 25 | 344 | 10.702 | 34.767 | 2 | 24.45 | 2 | -37.6 | 2.9 | 2 | 6532 |
| 1 | 24 | 396 | 9.870 | 34.708 | 2 | 27.98 | 2 | -57.0 | 3.0 | 2 | 6740 |
| 1 | 23 | 444 | 9.121 | 34.655 | 2 | 30.53 | 2 | -54.8 | 3.2 | 2 | 6358 |
| 1 | 22 | 495 | 8.208 | 34.586 | 2 | 37.85 | 2 | -90.5 | 2.0 | 6 | 6368 |
| | | | | | | | | | | | 6372 |
| 1 | 20 | 694 | 5.974 | 34.546 | 2 | 59.49 | 2 | -144.9 | 2.5 | 2 | 6540 |
| 1 | 19 | 792 | 5.438 | 34.539 | 2 | 66.37 | 2 | -144.6 | 2.6 | 2 | 6362 |
| 1 | 18 | 892 | 4.899 | 34.544 | 6 | 76.63 | 2 | -164.8 | 3.3 | 2 | 6367 |
| 1 | 17 | 992 | 4.602 | 34.548 | 2 | 83.69 | 2 | -166.9 | 2.8 | 2 | 6539 |
| 1 | 16 | 1092 | 4.273 | 34.558 | 2 | 92.37 | 2 | -180.9 | 2.9 | 2 | 6363 |
| 1 | 14 | 1294 | 3.618 | 34.578 | 2 | 107.66 | 2 | -195.3 | 4.5 | 2 | 6366 |
| 1 | 12 | 1490 | 3.138 | 34.595 | 2 | 118.65 | 2 | -211.6 | 4.7 | 2 | 6369 |
| 1 | 10 | 1790 | 2.536 | 34.621 | 2 | 132.67 | 2 | -221.2 | 2.1 | 2 | 6541 |
| 1 | 9 | 1993 | 2.268 | 34.637 | 2 | 139.15 | 2 | -230.8 | 2.5 | 2 | 6533 |
| 1 | 7 | 2394 | 1.899 | 34.653 | 2 | 145.41 | 2 | -229.9 | 2.4 | 2 | 6537 |
| 1 | 6 | 2695 | 1.782 | 34.663 | 2 | 148.59 | 2 | -234.9 | 2.6 | 2 | 6534 |
| 1 | 5 | 2994 | 1.669 | 34.669 | 2 | 148.39 | 2 | -230.4 | 2.3 | 2 | 6543 |
| 1 | 4 | 3297 | 1.583 | 34.675 | 2 | 147.12 | 2 | -224.3 | 2.8 | 2 | 6370 |
| 1 | 3 | 3595 | 1.524 | 34.680 | 2 | 145.85 | 2 | -206.4 | 2.8 | 2 | 6360 |
| 1 | 2 | 3898 | 1.461 | 34.687 | 2 | 142.33 | 2 | -216.3 | 2.4 | 2 | 6535 |
| 1 | 1 | 4225 | 1.324 | 34.698 | 6 | 132.31 | 2 | -189.8 | 2.5 | 2 | 6542 |

Station 76

| | | Latitude | | 1.000°N | | Date | | 10/13/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.987°E | | Bottom Depth | | 4316 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 30.183 | 34.521 | 2 | 0.80 | 2 | 88.9 | 2.9 | 2 | 6550 |
| 1 | 35 | 22 | 30.193 | 34.522 | 2 | 0.82 | 2 | 108.9 | 4.5 | 2 | 6556 |
| 1 | 34 | 46 | 30.207 | 34.592 | 2 | 0.95 | 2 | 111.5 | 2.9 | 2 | 6555 |
| 1 | 33 | 72 | 27.624 | -9 | 5 | 2.16 | 2 | 124.1 | 5.1 | 2 | 6554 |
| 1 | 32 | 97 | 24.205 | 35.020 | 2 | 5.10 | 2 | 98.5 | 2.8 | 3 | 6565 |
| 1 | 31 | 120 | 22.304 | 35.035 | 2 | 6.68 | 2 | 113.5 | 5.1 | 2 | 6553 |
| 1 | 30 | 146 | 20.987 | -9 | 5 | 7.24 | 2 | 89.9 | 2.7 | 2 | 6547 |
| 1 | 29 | 173 | 17.402 | 34.756 | 2 | 12.13 | 2 | 74.0 | 3.4 | 2 | 6549 |
| 1 | 28 | 195 | 15.368 | 34.820 | 2 | 14.04 | 2 | 72.7 | 2.8 | 2 | 6561 |

Station 76 (Continued)

| | | Latitude | | 1.000°N | | Date | | 10/13/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.987°E | | Bottom Depth | | 4316 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 26 | 247 | 12.976 | 34.835 | 2 | 17.93 | 2 | 16.4 | 2.9 | 2 | 6563 |
| 1 | 25 | 295 | 12.291 | 34.881 | 2 | 16.95 | 2 | 10.5 | 3.2 | 2 | 6551 |
| 1 | 24 | 344 | 10.781 | 34.776 | 2 | 23.73 | 2 | -34.1 | 2.5 | 2 | 6548 |
| 1 | 23 | 396 | 9.781 | 34.718 | 2 | 27.05 | 2 | -46.0 | 2.5 | 2 | 6558 |
| 1 | 21 | 496 | 8.217 | 34.625 | 2 | 32.56 | 2 | -74.4 | 5.6 | 6 | 6552 |
| | | | | | | | | | | | 6562 |
| 1 | 20 | 594 | 7.009 | 34.577 | 2 | 41.10 | 2 | -104.3 | 2.4 | 2 | 6546 |
| 1 | 18 | 794 | 5.662 | 34.539 | 6 | 59.40 | 2 | -141.4 | 2.4 | 2 | 6566 |

Station 78

| | | Latitude | | 0.024°N | | Date | | 10/14/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.908°E | | Bottom Depth | | 4369 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 32 | 95 | 23.826 | 35.087 | 2 | 4.75 | 2 | 101.6 | 5.3 | 2 | 3244 |
| 1 | 29 | 170 | 17.522 | 35.032 | 2 | 9.52 | 2 | 72.9 | 3.8 | 2 | 3238 |
| 1 | 26 | 294 | 12.822 | 34.899 | 2 | 16.48 | 2 | 17.6 | 3.6 | 2 | 3235 |
| 1 | 22 | 494 | 8.823 | 34.645 | 2 | 31.92 | 2 | -82.5 | 4.5 | 6 | 3237 |
| | | | | | | | | | | | 3246 |
| 1 | 21 | 592 | 7.340 | 34.574 | 2 | 42.09 | 2 | -113.2 | 5.4 | 2 | 3239 |
| 1 | 19 | 793 | 5.656 | 34.540 | 2 | 62.96 | 2 | -147.1 | 3.2 | 2 | 3240 |
| 1 | 18 | 891 | 5.069 | 34.540 | 6 | 71.36 | 2 | -171.4 | 6.8 | 2 | 3316 |
| 1 | 16 | 1092 | 4.263 | 34.559 | 2 | 88.98 | 2 | -185.1 | 2.9 | 2 | 3234 |
| 1 | 14 | 1293 | 3.594 | 34.579 | 2 | 106.39 | 2 | -197.0 | 3.9 | 2 | 3233 |
| 1 | 9 | 2093 | 2.119 | 34.645 | 2 | 140.59 | 2 | -226.2 | 2.8 | 2 | 3243 |
| 1 | 8 | 2291 | 2.000 | 34.653 | 2 | 142.82 | 2 | -227.2 | 2.9 | 2 | 3241 |
| 1 | 7 | 2594 | 1.797 | 34.661 | 2 | 146.88 | 2 | -223.1 | 4.9 | 2 | 3245 |
| 1 | 5 | 3196 | 1.556 | 34.675 | 2 | 146.92 | 2 | -219.7 | 2.8 | 2 | 3236 |
| 1 | 2 | 4099 | 1.380 | 34.695 | 2 | 136.71 | 2 | -206.1 | 2.9 | 2 | 3247 |
| 1 | 1 | 4429 | 1.333 | 34.700 | 6 | 131.31 | 2 | -181.1 | 3.0 | 3 | 3242 |

Station 80

| | | Latitude | | 0.991°S | | Date | | 10/15/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.994°E | | Bottom Depth | | 4422 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 30.218 | 34.578 | 2 | 0.99 | 2 | 72.5 | 3.6 | 2 | 6557 |
| 1 | 34 | 43 | 30.202 | 34.783 | 2 | 1.00 | 2 | 80.0 | 3.3 | 2 | 6568 |
| 1 | 32 | 96 | 24.217 | 35.078 | 2 | 4.21 | 2 | 95.5 | 2.9 | 2 | 6567 |

Station 80 (Continued)

| | | Latitude | | 0.991°S | | Date | | 10/15/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.994°E | | Bottom Depth | | 4422 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 31 | 121 | 23.537 | 35.161 | 2 | 4.93 | 2 | 98.9 | 3.8 | 2 | 6564 |
| 1 | 30 | 146 | 22.359 | 35.211 | 2 | 5.90 | 2 | 99.8 | 3.0 | 2 | 6560 |
| 1 | 29 | 170 | 20.167 | 35.174 | 2 | 7.15 | 2 | 74.3 | 3.4 | 2 | 6574 |
| 1 | 28 | 195 | 18.271 | 35.212 | 2 | 7.83 | 2 | 61.1 | 5.5 | 2 | 8160 |
| 1 | 27 | 244 | 13.230 | 34.927 | 2 | 15.36 | 2 | -1.9 | 5.8 | 2 | 8163 |
| 1 | 26 | 294 | 12.235 | 34.866 | 2 | 18.95 | 2 | -5.8 | 3.0 | 2 | 6572 |
| 1 | 25 | 343 | 11.368 | 34.797 | 2 | 19.86 | 2 | -27.3 | 3.2 | 2 | 6570 |
| 1 | 24 | 393 | 10.160 | 34.727 | 2 | 22.92 | 2 | -65.9 | 5.5 | 2 | 8162 |
| 1 | 22 | 493 | 9.026 | 34.638 | 2 | 31.03 | 2 | -80.8 | 2.0 | 6 | 6569 |
| | | | | | | | | | | | 6573 |
| 1 | 21 | 592 | 7.125 | 34.562 | 2 | 45.71 | 2 | -114.7 | 3.4 | 2 | 6559 |
| 1 | 19 | 793 | 5.586 | 34.539 | 2 | 64.10 | 2 | -148.1 | 2.7 | 2 | 6571 |

Station 82

| | | Latitude | | 1.997°S | | Date | | 10/15/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.925°E | | Bottom Depth | | 4457 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 7 | 30.354 | 34.735 | 2 | 0.87 | 2 | 84.8 | 4.5 | 2 | 6649 |
| 1 | 35 | 22 | 30.354 | 34.741 | 2 | 0.91 | 2 | 87.6 | 5.5 | 2 | 6648 |
| 1 | 34 | 46 | 30.364 | 34.907 | 2 | 1.14 | 2 | 89.7 | 4.7 | 2 | 6651 |
| 1 | 33 | 72 | 29.685 | 35.172 | 2 | 1.23 | 2 | 92.8 | 3.5 | 2 | 6746 |
| 1 | 32 | 97 | 24.960 | 35.207 | 2 | 2.32 | 2 | 86.0 | 3.6 | 2 | 6656 |
| 1 | 31 | 121 | 23.562 | 35.197 | 2 | 3.55 | 2 | 105.0 | 3.4 | 2 | 6748 |
| 1 | 30 | 146 | 22.623 | 35.296 | 2 | 4.17 | 2 | 111.0 | 6.2 | 2 | 6647 |
| 1 | 29 | 171 | 21.262 | -9 | 1 | 4.06 | 2 | 112.0 | 3.4 | 2 | 6747 |
| 1 | 28 | 197 | 16.209 | 35.269 | 2 | 7.08 | 2 | 71.2 | 3.5 | 2 | 6741 |
| 1 | 27 | 246 | 12.792 | 34.931 | 2 | 15.24 | 2 | 26.1 | 3.4 | 2 | 6655 |
| 1 | 26 | 296 | 11.729 | 34.841 | 2 | 20.13 | 2 | -12.3 | 4.4 | 2 | 6743 |
| 1 | 25 | 345 | 10.826 | 34.783 | 2 | 23.67 | 2 | -39.2 | 3.4 | 2 | 6641 |
| 1 | 24 | 395 | 10.069 | 34.741 | 2 | 23.85 | 2 | -49.7 | 5.5 | 2 | 6645 |
| 1 | 22 | 494 | 8.309 | 34.642 | 2 | 27.00 | 2 | -84.1 | 3.8 | 6 | 6652 |
| | | | | | | | | | | | 6653 |
| 1 | 21 | 595 | 7.126 | 34.563 | 2 | 38.71 | 2 | -104.0 | 2.4 | 2 | 6633 |
| 1 | 20 | 693 | 6.375 | 34.539 | 2 | 47.59 | 2 | -127.4 | 2.9 | 2 | 6749 |
| 1 | 19 | 793 | 5.613 | 34.532 | 2 | 58.58 | 2 | -144.3 | 4.4 | 2 | 6654 |
| 1 | 18 | 896 | 5.014 | 34.537 | 6 | 69.35 | 2 | -154.9 | 3.5 | 2 | 6644 |
| 1 | 17 | 991 | 4.581 | 34.543 | 2 | 78.13 | 2 | -178.2 | 7.1 | 2 | 6646 |
| 1 | 16 | 1093 | 4.188 | 34.552 | 2 | 87.07 | 2 | -184.6 | 3.3 | 2 | 6642 |
| 1 | 14 | 1293 | 3.604 | 34.578 | 2 | 103.49 | 2 | -196.8 | 2.9 | 2 | 6657 |

Station 82 (Continued)

| | | Latitude | | 1.997°S | | Date | | 10/15/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.925°E | | Bottom Depth | | 4457 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 1492 | 2.993 | 34.598 | 2 | 116.04 | 2 | -205.1 | 2.8 | 2 | 6744 |
| 1 | 9 | 2094 | 2.112 | 34.644 | 2 | 137.30 | 2 | -225.7 | 2.6 | 2 | 6742 |
| 1 | 8 | 2395 | 1.889 | 34.654 | 2 | 144.23 | 2 | -227.8 | 3.5 | 2 | 6643 |
| 1 | 7 | 2696 | 1.754 | 34.662 | 2 | 146.50 | 2 | -224.7 | 2.5 | 2 | 6632 |
| 1 | 6 | 2994 | 1.640 | 34.670 | 2 | 147.46 | 2 | -226.6 | 2.8 | 2 | 6640 |
| 1 | 5 | 3297 | 1.563 | 34.676 | 2 | 146.51 | 2 | -234.6 | 3.2 | 2 | 6637 |
| 1 | 4 | 3599 | 1.515 | 34.681 | 2 | 145.35 | 2 | -214.0 | 3.7 | 2 | 6650 |
| 1 | 3 | 3899 | 1.444 | 34.688 | 2 | 140.78 | 2 | -212.3 | 3.4 | 2 | 6639 |
| 1 | 2 | 4200 | 1.410 | 34.692 | 2 | 137.68 | 2 | -207.4 | 2.6 | 2 | 6638 |

Station 83

| | | Latitude | | 2.797°S | | Date | | 10/16/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.913°E | | Bottom Depth | | 4457 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 21 | 30.099 | -9 | 5 | 0.83 | 2 | 84.7 | 5.8 | 2 | 5795 |
| 1 | 32 | 96 | 28.531 | 35.273 | 2 | 1.57 | 2 | 79.5 | 4.3 | 2 | 5800 |
| 1 | 31 | 119 | 24.762 | 35.084 | 2 | 3.27 | 2 | 90.5 | 4.4 | 2 | 5790 |
| 1 | 30 | 144 | 24.350 | 35.260 | 2 | 2.96 | 2 | 94.0 | 3.9 | 2 | 5799 |
| 1 | 29 | 170 | 22.537 | 35.541 | 2 | 2.98 | 2 | 86.2 | 3.4 | 2 | 5796 |
| 1 | 28 | 193 | 17.335 | -9 | 5 | 7.00 | 2 | 63.2 | 3.6 | 2 | 5798 |
| 1 | 27 | 235 | 12.294 | 34.921 | 2 | 14.71 | 2 | -1.3 | 3.7 | 2 | 5792 |
| 1 | 26 | 293 | 11.105 | 34.803 | 2 | 22.23 | 2 | -28.8 | 2.6 | 2 | 5803 |
| 1 | 24 | 392 | 10.020 | 34.724 | 2 | 26.20 | 2 | -60.4 | 3.5 | 2 | 5793 |
| 1 | 22 | 492 | 8.296 | 34.624 | 2 | 30.55 | 2 | -91.8 | 5.2 | 6 | 5791 |
| | | | | | | | | | | | 5794 |
| | | | | | | | | | | | 5801 |
| | | | | | | | | | | | 5802 |
| | | | | | | | | | | | 5804 |
| 1 | 21 | 590 | 6.919 | 34.572 | 2 | 37.34 | 2 | -113.1 | 2.5 | 2 | 5550 |
| 1 | 19 | 791 | 5.450 | 34.535 | 2 | 62.80 | 2 | -145.9 | 4.0 | 2 | 5797 |

Station 86

| | | Latitude | | 3.975°S | | Date | | 10/16/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.358°E | | Bottom Depth | | 2027 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 32 | 7 | 30.153 | 34.774 | 2 | 0.95 | 2 | 92.2 | 3.4 | 2 | 3260 |
| 1 | 31 | 22 | 30.156 | 34.779 | 2 | 0.97 | 2 | 86.6 | 3.5 | 2 | 3256 |
| 1 | 30 | 47 | 30.165 | 34.803 | 2 | 1.02 | 2 | 83.5 | 3.5 | 2 | 3266 |

Station 86 (Continued)

| | | Latitude | | 3.975°S | | Date | | 10/1692 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 164.358°E | | Bottom Depth | | 2027 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 29 | 68 | 29.313 | 35.212 | 2 | 1.39 | 2 | 88.7 | 4.1 | 2 | 3253 |
| 1 | 28 | 97 | 27.439 | 35.144 | 2 | 2.03 | 2 | 88.8 | 3.5 | 2 | 3265 |
| 1 | 27 | 122 | 25.369 | 35.333 | 2 | 2.73 | 2 | 97.3 | 3.6 | 2 | 3251 |
| 1 | 25 | 172 | 21.295 | 35.615 | 2 | 4.15 | 2 | 91.5 | 3.5 | 2 | 3250 |
| 1 | 24 | 196 | 18.146 | 35.488 | 2 | 6.64 | 2 | 76.3 | 4.0 | 2 | 3264 |
| 1 | 23 | 221 | 14.910 | 35.195 | 2 | 11.72 | 2 | 37.3 | 5.3 | 2 | 3263 |
| 1 | 22 | 247 | 12.624 | 35.010 | 2 | 13.72 | 2 | 5.7 | 3.4 | 2 | 3267 |
| 1 | 21 | 295 | 10.325 | 34.771 | 2 | 21.06 | 2 | -34.7 | 3.5 | 2 | 3262 |
| 1 | 20 | 345 | 9.803 | 34.725 | 2 | 23.70 | 2 | -51.3 | 3.2 | 2 | 3258 |
| 1 | 18 | 444 | 8.370 | 34.626 | 2 | 29.35 | 2 | -85.3 | 3.2 | 2 | 3252 |
| 1 | 17 | 496 | 7.884 | 34.604 | 2 | 32.60 | 2 | -91.9 | 3.7 | 2 | 3254 |
| 1 | 12 | 793 | 5.585 | 34.537 | 2 | 59.63 | 2 | -140.8 | 3.0 | 2 | 3255 |
| 1 | 9 | 992 | 4.518 | 34.544 | 2 | 79.84 | 2 | -168.0 | 2.8 | 2 | 3257 |
| 1 | 8 | 1093 | 4.212 | 34.554 | 2 | 87.75 | 2 | -180.3 | 2.9 | 2 | 3268 |
| 1 | 5 | 1593 | 2.909 | 34.596 | 2 | 112.97 | 2 | -212.8 | 2.9 | 2 | 3249 |
| 1 | 3 | 1996 | 2.184 | 34.638 | 2 | 133.50 | 2 | -224.5 | 2.8 | 2 | 3259 |
| 1 | 2 | 2086 | 2.075 | 34.645 | 2 | 136.12 | 2 | -224.7 | 3.0 | 2 | 3261 |

WOCE Cruise P14C
EXPOCODE: 316N138/7

9/1/92 - 9/15/92

Chief Scientist: D. Roemmich

Principal Investigator for $\Delta^{14}\text{C}$: R.M. Key

NOSAMS Report 97-082

Station 5

| | | Latitude | | 34.825°S | | | | Date | | 9/1/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|--------|-------|
| | | Longitude | | 175.187°E | | | | Bottom Depth | | 1430 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 17 | 2 | 15.273 | 35.455 | 2 | 2.98 | 2 | 104.5 | 2.9 | 2 | 10065 |
| 1 | 19 | 54 | 15.237 | 35.451 | 2 | 2.90 | 2 | 97.6 | 2.4 | 2 | 10064 |
| 1 | 20 | 104 | 15.195 | 35.444 | 2 | 3.07 | 2 | 91.7 | 3.3 | 2 | 10063 |
| 1 | 22 | 203 | 14.877 | 35.403 | 2 | 3.20 | 2 | 81.9 | 2.9 | 2 | 10061 |
| 1 | 24 | 301 | 13.346 | 35.191 | 2 | 5.21 | 2 | 65.8 | 3.1 | 2 | 10060 |
| 1 | 26 | 404 | 11.942 | 35.029 | 2 | 7.21 | 2 | 45.0 | 2.7 | 2 | 10059 |
| 1 | 27 | 506 | 10.505 | 34.871 | 2 | 9.45 | 2 | 14.9 | 2.3 | 2 | 10048 |
| 1 | 28 | 605 | 9.353 | 34.746 | 2 | 12.73 | 2 | -2.6 | 4.6 | 2 | 10047 |
| 1 | 29 | 705 | 8.250 | 34.634 | 2 | 16.21 | 2 | -35.0 | 2.1 | 2 | 10046 |
| 1 | 30 | 801 | 7.309 | 34.543 | 2 | 19.48 | 2 | -50.1 | 2.4 | 2 | 10045 |
| 1 | 31 | 902 | 6.465 | 34.498 | 2 | 26.29 | 2 | -164.6 | 2.5 | 4 | 10044 |
| 1 | 32 | 1005 | 5.997 | 34.491 | 2 | 32.48 | 2 | -92.6 | 2.5 | 2 | 10043 |
| 1 | 33 | 1108 | 5.336 | 34.485 | 2 | 42.18 | 2 | -119.8 | 4.3 | 2 | 10042 |
| 1 | 34 | 1207 | 4.525 | 34.501 | 2 | 55.82 | 2 | -139.3 | 4.1 | 2 | 10041 |
| 1 | 35 | 1310 | 3.930 | 34.538 | 2 | 70.51 | 2 | -148.0 | 2.4 | 2 | 10040 |
| 1 | 36 | 1436 | 3.376 | 34.572 | 2 | 83.99 | 2 | -167.6 | 2.5 | 2 | 10038 |

Station 8

| | | Latitude | | 33.702°S | | | | Date | | 9/2/92 | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|--------|-------|
| | | Longitude | | 175.382°E | | | | Bottom Depth | | 2363 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 13 | 2 | 15.509 | 35.473 | 2 | 2.40 | 2 | 118.2 | 4.8 | 2 | 9903 |
| 1 | 14 | 14 | 15.516 | 35.479 | 2 | 2.57 | 2 | 117.9 | 5.2 | 2 | 9902 |
| 1 | 15 | 54 | 15.466 | 35.494 | 2 | 2.34 | 2 | 115.5 | 4.9 | 2 | 9901 |
| 1 | 16 | 105 | 15.470 | 35.495 | 2 | 2.31 | 2 | 111.1 | 3.5 | 2 | 9900 |
| 1 | 17 | 154 | 15.443 | 35.499 | 2 | 2.28 | 2 | 114.7 | 5.6 | 2 | 9899 |
| 1 | 18 | 203 | 14.746 | 35.407 | 2 | 2.65 | 2 | 108.2 | 5.2 | 2 | 9898 |
| 1 | 19 | 254 | 14.523 | 35.410 | 4 | 2.62 | 4 | 115.7 | 6.3 | 2 | 9897 |
| 1 | 20 | 304 | 14.111 | 35.318 | 2 | 3.20 | 2 | 109.8 | 5.0 | 2 | 9896 |
| 1 | 21 | 404 | 12.237 | 35.064 | 2 | 7.23 | 2 | 47.2 | 5.0 | 2 | 10152 |
| 1 | 22 | 504 | 10.539 | 34.869 | 2 | 9.63 | 2 | 21.3 | 3.6 | 2 | 10151 |
| 1 | 23 | 604 | 8.798 | 34.672 | 2 | 13.05 | 2 | -29.8 | 4.4 | 2 | 10150 |
| 1 | 24 | 702 | 7.668 | 34.565 | 2 | 16.87 | 2 | -27.1 | 2.8 | 2 | 10149 |

Station 8 (Continued)

| | | Latitude | | | | 33.702°S | | Date | | 9/2/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------|-------|
| | | Longitude | | | | 175.382°E | | Bottom Depth | | 2363 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 25 | 802 | 6.545 | 34.480 | 2 | 22.93 | 2 | -52.5 | 5.8 | 2 | 10148 |
| 1 | 26 | 903 | 5.683 | 34.422 | 2 | 28.57 | 2 | -83.6 | 4.4 | 2 | 10147 |
| 1 | 27 | 1004 | 5.163 | 34.426 | 2 | 36.86 | 2 | -99.5 | 3.8 | 2 | 10146 |
| 1 | 28 | 1104 | 4.862 | 34.432 | 2 | 42.24 | 2 | -106.7 | 1.9 | 6 | 10145 |
| | | | | | | | | | | | 10246 |
| 1 | 29 | 1203 | 4.613 | 34.504 | 2 | 55.61 | 2 | -96.1 | 2.8 | 3 | 10144 |
| 1 | 30 | 1303 | 4.153 | 34.522 | 2 | 65.54 | 2 | -147.1 | 6.1 | 2 | 10111 |
| 1 | 31 | 1405 | 3.683 | 34.541 | 2 | 76.10 | 2 | -161.8 | 4.7 | 2 | 10110 |
| 1 | 32 | 1606 | 3.070 | 34.580 | 2 | 91.29 | 2 | -181.6 | 4.2 | 2 | 10109 |
| 1 | 33 | 1799 | 2.657 | 34.607 | 2 | 103.01 | 2 | -200.4 | 3.5 | 2 | 10108 |
| 1 | 34 | 2000 | 2.374 | 34.632 | 2 | 111.30 | 2 | -206.4 | 2.9 | 2 | 10107 |
| 1 | 35 | 2203 | 2.173 | 34.650 | 2 | 116.29 | 2 | -213.3 | 3.0 | 2 | 10106 |
| 1 | 36 | 2384 | 1.961 | 34.665 | 2 | 121.31 | 2 | -211.3 | 3.0 | 2 | 10105 |

Station 12

| | | Latitude | | | | 32.180°S | | Date | | 9/2/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------|-------|
| | | Longitude | | | | 175.638°E | | Bottom Depth | | 2363 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 2 | 2 | 16.622 | 35.565 | 2 | 1.86 | 2 | 105.5 | 3.0 | 2 | 10031 |
| 1 | 4 | 57 | 16.177 | 35.526 | 2 | 2.05 | 2 | 106.1 | 3.0 | 2 | 10030 |
| 1 | 5 | 107 | 16.010 | 35.512 | 2 | 2.25 | 2 | 103.2 | 2.8 | 2 | 10029 |
| 1 | 7 | 207 | 14.226 | 35.287 | 2 | 4.20 | 2 | 85.0 | 2.7 | 2 | 10028 |
| 1 | 9 | 307 | 12.197 | 35.051 | 2 | 6.25 | 2 | 52.9 | 2.7 | 2 | 10027 |
| 1 | 13 | 509 | 9.136 | 34.694 | 2 | 11.44 | 2 | 1.2 | 3.7 | 2 | 10026 |
| 1 | 15 | 709 | 7.183 | 34.518 | 2 | 18.28 | 2 | -47.0 | 2.6 | 2 | 10025 |
| 1 | 17 | 911 | 5.619 | 34.440 | 2 | 32.07 | 2 | -91.2 | 2.5 | 2 | 10024 |
| 1 | 20 | 1213 | 4.106 | 34.526 | 2 | 67.06 | 2 | -147.2 | 2.5 | 2 | 10004 |
| 1 | 23 | 1516 | 3.114 | 34.578 | 2 | 89.64 | 2 | -171.3 | 3.9 | 2 | 10003 |
| 1 | 25 | 1822 | 2.568 | 34.617 | 2 | 104.78 | 2 | -188.5 | 3.0 | 2 | 10002 |
| 1 | 28 | 2431 | 2.030 | 34.663 | 2 | 120.62 | 2 | -206.4 | 2.4 | 2 | 10001 |
| 1 | 30 | 2837 | 1.865 | 34.678 | 2 | 124.82 | 2 | -201.4 | 2.4 | 2 | 10000 |
| 1 | 33 | 3447 | 1.847 | 34.683 | 2 | 126.58 | 2 | -206.4 | 2.2 | 2 | 9999 |
| 1 | 34 | 3651 | 1.859 | 34.685 | 2 | 127.36 | 2 | -201.7 | 2.2 | 2 | 9998 |
| 1 | 36 | 3970 | 1.889 | -9 | 5 | 127.46 | 2 | -203.7 | 2.2 | 2 | 9997 |

Station 15

| | | Latitude | | 30.882°S | | Date | | 9/3/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 175.858°E | | Bottom Depth | | 4139 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 1 | 1 | 17.179 | 35.590 | 2 | 2.11 | 2 | 138.4 | 9.2 | 2 | 9894 |
| 1 | 3 | 56 | 17.025 | 35.578 | 2 | 1.88 | 2 | 131.3 | 4.7 | 2 | 9893 |
| 1 | 4 | 106 | 16.848 | 35.560 | 2 | 2.07 | 2 | 129.2 | 3.5 | 2 | 9892 |
| 1 | 6 | 205 | 16.077 | 35.384 | 4 | 2.25 | 2 | 112.4 | 3.6 | 2 | 9891 |
| 1 | 8 | 306 | 13.840 | 35.113 | 4 | 4.63 | 2 | 84.4 | 3.5 | 2 | 9890 |
| 1 | 10 | 407 | 11.787 | 34.980 | 2 | 6.41 | 2 | 54.2 | 4.8 | 2 | 9889 |
| 1 | 11 | 507 | 10.074 | 34.778 | 2 | 8.20 | 2 | 39.4 | 3.3 | 2 | 9888 |
| 1 | 12 | 608 | 8.485 | 34.604 | 2 | 10.80 | 2 | -6.1 | 4.8 | 2 | 9811 |
| 1 | 13 | 707 | 7.295 | 34.496 | 2 | 14.19 | 2 | -28.4 | 4.8 | 2 | 9810 |
| 1 | 14 | 806 | 6.614 | 34.455 | 2 | 19.59 | 2 | -54.8 | 3.2 | 2 | 9809 |
| 1 | 15 | 905 | 5.990 | 34.447 | 2 | 27.80 | 2 | -78.4 | 3.0 | 2 | 9808 |
| 1 | 16 | 1007 | 5.434 | 34.458 | 2 | 37.21 | 2 | -97.5 | 3.0 | 2 | 9807 |
| 1 | 19 | 1210 | 4.320 | 34.470 | 2 | 55.41 | 2 | -123.1 | 3.2 | 2 | 9806 |
| 1 | 21 | 1400 | 3.434 | 34.527 | 2 | 77.50 | 2 | -166.0 | 4.5 | 2 | 9805 |
| 1 | 23 | 1608 | 2.910 | 34.590 | 2 | 95.50 | 2 | -176.1 | 5.4 | 2 | 9804 |
| 1 | 24 | 1812 | 2.533 | 34.617 | 2 | 106.31 | 2 | -184.9 | 2.7 | 2 | 9803 |
| 1 | 25 | 2016 | 2.293 | 34.637 | 2 | 113.71 | 2 | -192.9 | 3.7 | 2 | 9785 |
| 1 | 26 | 2219 | 2.120 | 34.652 | 2 | 118.26 | 2 | -213.4 | 3.6 | 2 | 9784 |
| 1 | 28 | 2631 | 1.923 | 34.669 | 2 | 123.63 | 2 | -203.7 | 3.7 | 2 | 9894 |
| 1 | 30 | 3040 | 1.855 | 34.680 | 2 | 126.10 | 2 | -200.0 | 3.6 | 2 | 9783 |
| 1 | 31 | 3244 | 1.851 | 34.682 | 2 | 126.49 | 2 | -199.3 | 4.2 | 2 | 9782 |
| 1 | 33 | 3652 | 1.862 | 34.684 | 2 | 126.86 | 2 | -191.9 | 3.6 | 2 | 9781 |
| 1 | 34 | 3857 | 1.875 | 34.683 | 2 | 127.67 | 2 | -204.5 | 7.2 | 2 | 9780 |
| 1 | 37 | 4199 | 1.905 | 34.684 | 2 | 128.04 | 2 | -213.4 | 3.5 | 2 | 9779 |

Station 18

| | | Latitude | | 29.572°S | | Date | | 9/4/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 176.082°E | | Bottom Depth | | 4277 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 1 | 2 | 18.154 | 35.657 | 2 | 1.63 | 2 | 123.1 | 3.5 | 2 | 9927 |
| 1 | 3 | 57 | 18.026 | 35.377 | 4 | 5.79 | 4 | 82.8 | 3.5 | 4 | 9926 |
| 1 | 4 | 107 | 17.796 | 35.638 | 2 | 2.17 | 2 | 103.1 | 3.5 | 2 | 9925 |
| 1 | 5 | 156 | 17.047 | 35.559 | 2 | 2.15 | 2 | 114.1 | 4.2 | 2 | 9924 |
| 1 | 6 | 204 | 16.795 | 35.541 | 2 | 2.13 | 2 | 109.9 | 3.4 | 2 | 9923 |
| 1 | 8 | 298 | 14.996 | 35.352 | 2 | 3.68 | 2 | 90.7 | 3.4 | 2 | 9938 |
| 1 | 10 | 379 | 13.490 | 35.174 | 2 | 5.04 | 2 | 67.5 | 4.0 | 2 | 9937 |
| 1 | 39 | 464 | 11.951 | 35.017 | 2 | 7.02 | 2 | 49.5 | 3.0 | 2 | 9936 |
| 1 | 12 | 545 | 10.414 | 34.846 | 2 | 9.59 | 2 | 25.9 | 3.0 | 2 | 9935 |
| 1 | 13 | 631 | 8.447 | 34.571 | 2 | 8.97 | 2 | 3.4 | 3.4 | 2 | 9934 |

Station 18 (Continued)

| | | Latitude | | 29.572°S | | Date | | 9/4/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|---------------|
| | | Longitude | | 176.082°E | | Bottom Depth | | 4277 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 14 | 722 | 7.743 | 34.504 | 2 | 10.75 | 2 | -4.2 | 3.1 | 2 | 9933 |
| 1 | 15 | 812 | 6.664 | 34.433 | 2 | 17.11 | 2 | -58.2 | 3.2 | 2 | 9932 |
| 1 | 16 | 903 | 5.962 | 34.394 | 2 | 22.68 | 2 | -77.1 | 3.7 | 6 | 10205 9931 |
| 1 | 18 | 1091 | 4.732 | 34.398 | 2 | 40.59 | 2 | -105.0 | 2.8 | 2 | 9930 |
| 1 | 19 | 1185 | 4.141 | 34.426 | 2 | 52.54 | 2 | -121.4 | 3.0 | 2 | 9904 |
| 1 | 20 | 1281 | 3.694 | 34.466 | 2 | 64.70 | 2 | -151.9 | 4.4 | 2 | 9881 |
| 1 | 21 | 1377 | 3.351 | 34.512 | 2 | 76.90 | 2 | -167.8 | 6.5 | 2 | 9880 |
| 1 | 38 | 1470 | 3.047 | 34.554 | 2 | 88.74 | 2 | -170.3 | 4.3 | 2 | 9871 |
| 1 | 23 | 1657 | 2.649 | 34.602 | 2 | 102.90 | 2 | -179.0 | 3.6 | 2 | 9870 |
| 1 | 24 | 1854 | 2.418 | 34.623 | 2 | 109.61 | 2 | -194.7 | 3.5 | 2 | 9869 |
| 1 | 25 | 2052 | 2.224 | 34.641 | 2 | 115.12 | 2 | -195.4 | 3.7 | 2 | 9868 |
| 1 | 26 | 2254 | 2.094 | 34.652 | 2 | 118.59 | 2 | -192.0 | 3.7 | 2 | 9867 |
| 1 | 27 | 2457 | 2.004 | 34.661 | 2 | 121.24 | 2 | -194.6 | 3.6 | 2 | 9866 |
| 1 | 28 | 2658 | 1.935 | 34.668 | 2 | 123.07 | 2 | -195.9 | 3.6 | 2 | 9865 |
| 1 | 29 | 2858 | 1.885 | 34.673 | 2 | 124.48 | 2 | -196.6 | 5.0 | 2 | 9864 |
| 1 | 30 | 3060 | 1.856 | 34.677 | 2 | 125.48 | 2 | -203.4 | 3.6 | 2 | 9863 |
| 1 | 31 | 3260 | 1.848 | 34.680 | 2 | 125.85 | 2 | -208.1 | 2.4 | 2 | 9776 |
| 1 | 33 | 3669 | 1.861 | 34.679 | 2 | 127.27 | 2 | -215.4 | 4.5 | 6 | 9768 9948 |
| 1 | 34 | 3875 | 1.872 | 34.682 | 2 | 127.22 | 2 | -211.5 | 2.6 | 2 | 9767 |
| 1 | 35 | 4079 | 1.891 | 34.682 | 2 | 127.17 | 2 | -212.7 | 2.7 | 2 | 9766 |
| 1 | 37 | 4333 | 1.911 | 34.684 | 2 | 127.54 | 2 | -209.5 | 2.7 | 2 | 9765 |

Station 21

| | | Latitude | | 28.277°S | | Date | | 9/5/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|---------------|
| | | Longitude | | 176.300°E | | Bottom Depth | | 4473 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 1 | 1 | 19.085 | 35.691 | 2 | 1.68 | 2 | 113.8 | 2.4 | 6 | 10039 9764 |
| 1 | 4 | 107 | 17.684 | 35.656 | 2 | 23.44 | 4 | 112.6 | 3.5 | 2 | 9763 |
| 1 | 6 | 206 | 16.414 | 35.492 | 2 | 23.97 | 4 | 106.2 | 4.3 | 2 | 9862 |
| 1 | 8 | 307 | 13.930 | 35.243 | 2 | 25.50 | 4 | 87.1 | 4.2 | 2 | 9812 |
| 1 | 10 | 406 | 11.962 | 35.019 | 2 | 27.43 | 4 | 48.8 | 3.6 | 2 | 9802 |
| 1 | 11 | 506 | 10.055 | 34.792 | 2 | 29.61 | 4 | 20.5 | 4.4 | 2 | 9801 |
| 1 | 12 | 605 | 8.573 | 34.620 | 2 | 31.58 | 4 | -5.0 | 3.4 | 2 | 9800 |
| 1 | 14 | 803 | 6.508 | 34.418 | 2 | 36.54 | 4 | -51.3 | 3.4 | 2 | 9799 |
| 1 | 16 | 1008 | 5.153 | 34.399 | 2 | 51.15 | 4 | -103.5 | 4.2 | 2 | 9798 |
| 1 | 20 | 1415 | 3.187 | 34.538 | 2 | 93.09 | 4 | -163.4 | 3.5 | 2 | 9797 |
| 1 | 23 | 1820 | 2.475 | 34.617 | 2 | 112.93 | 4 | -190.4 | 2.9 | 2 | 9796 |

Station 21 (Continued)

| | | Latitude | | 28.277°S | | Date | | 9/5/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 176.300°E | | Bottom Depth | | 4473 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 25 | 2217 | 2.144 | 34.650 | 2 | 120.58 | 4 | -201.0 | 3.1 | 2 | 9795 |
| 1 | 28 | 2823 | 1.883 | 34.674 | 2 | 124.67 | 2 | -198.3 | 3.5 | 2 | 9794 |
| 1 | 31 | 3440 | 1.847 | 34.681 | 2 | 127.09 | 2 | -207.2 | 4.6 | 2 | 9793 |
| 1 | 33 | 3853 | 1.865 | 34.683 | 2 | 128.29 | 2 | -205.7 | 4.6 | 2 | 9792 |
| 1 | 37 | 4529 | 1.928 | 34.684 | 2 | 128.39 | 2 | -197.6 | 3.3 | 2 | 9791 |

Station 24

| | | Latitude | | 26.973°S | | Date | | 9/6/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|---------------|
| | | Longitude | | 176.522°E | | Bottom Depth | | 4401 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 1 | 3 | 18.680 | 35.661 | 2 | 1.62 | 2 | 118.2 | 3.0 | 2 | 9996 |
| 1 | 4 | 106 | 17.396 | 35.608 | 2 | 1.76 | 2 | 120.7 | 5.3 | 2 | 9945 |
| 1 | 6 | 205 | 15.836 | 35.437 | 2 | 2.91 | 2 | 91.0 | 3.6 | 2 | 9995 |
| 1 | 8 | 305 | 14.050 | 35.231 | 2 | 4.26 | 2 | 79.9 | 4.8 | 2 | 9944 |
| 1 | 10 | 406 | 11.628 | 34.972 | 2 | 6.81 | 2 | 41.3 | 4.0 | 2 | 9943 |
| 1 | 11 | 507 | 9.323 | 34.756 | 2 | 7.78 | 2 | 11.4 | 3.3 | 6 | 10163 9942 |
| 1 | 12 | 607 | 7.988 | 34.540 | 2 | 10.55 | 2 | -13.2 | 3.2 | 2 | 9941 |
| 1 | 14 | 804 | 6.157 | 34.402 | 2 | 19.85 | 2 | -69.3 | 3.0 | 2 | 9940 |
| 1 | 16 | 1005 | 4.933 | 34.400 | 2 | 37.71 | 2 | -111.2 | 6.4 | 6 | 10323 9939 |
| 1 | 20 | 1408 | 3.061 | 34.558 | 2 | 89.17 | 2 | -161.3 | 3.8 | 6 | 10284 9922 |
| 1 | 23 | 1807 | 2.415 | 34.622 | 2 | 110.25 | 2 | -185.4 | 2.7 | 2 | 9921 |
| 1 | 25 | 2211 | 2.111 | 34.652 | 2 | 118.05 | 2 | -183.1 | 3.0 | 2 | 9920 |
| 1 | 28 | 2815 | 1.883 | 34.674 | 2 | 124.03 | 2 | -189.2 | 2.9 | 2 | 9919 |
| 1 | 31 | 3422 | 1.835 | 34.682 | 2 | 126.50 | 2 | -190.9 | 2.8 | 2 | 9918 |
| 1 | 33 | 3828 | 1.853 | 34.683 | 2 | 127.52 | 2 | -189.8 | 4.1 | 2 | 9917 |
| 1 | 37 | 4440 | 1.911 | 34.689 | 4 | 127.89 | 2 | -196.4 | 2.9 | 2 | 9916 |

Station 27

| | | Latitude | | 25.670°S | | Date | | 9/6/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 176.740°E | | Bottom Depth | | 4448 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 1 | 2 | 20.761 | 35.643 | 2 | 1.61 | 2 | 138.3 | 3.6 | 2 | 9915 |
| 1 | 3 | 60 | 20.121 | 35.667 | 2 | 1.56 | 2 | 139.2 | 8.7 | 2 | 9914 |
| 1 | 4 | 112 | 19.784 | 35.696 | 2 | 1.53 | 2 | 135.3 | 3.8 | 2 | 9913 |
| 1 | 41 | 211 | 17.934 | 35.597 | 2 | 1.88 | 2 | 121.6 | 3.7 | 2 | 9912 |

Station 27 (Continued)

| | | Latitude | | 25.670°S | | Date | | 9/6/92 | | | |
|------|------|-------------|------------|-----------|---|--------------------------|---|----------------------------|----------|---|---------------|
| | | Longitude | | 176.740°E | | Bottom Depth | | 4448 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 8 | 311 | 15.374 | 35.374 | 2 | 3.24 | 2 | 101.4 ^a | 4.0 | 2 | 99111 4316 |
| 1 | 10 | 412 | 12.431 | 35.031 | 2 | 5.39 | 2 | 72.3 | 3.5 | 2 | 9910 |
| 1 | 11 | 512 | 9.921 | 34.734 | 2 | 7.57 | 2 | 28.8 | 5.2 | 2 | 9909 |
| 1 | 12 | 612 | 8.242 | 34.552 | 2 | 9.35 | 2 | 13.1 | 5.6 | 2 | 9908 |
| 1 | 13 | 712 | 6.988 | 34.438 | 2 | 13.53 | 2 | -30.6 | 3.4 | 2 | 9907 |
| 1 | 15 | 914 | 5.087 | 34.381 | 2 | 32.90 | 2 | -98.6 | 4.3 | 2 | 9906 |
| 1 | 16 | 1016 | 4.407 | 34.414 | 2 | 47.70 | 2 | -120.7 | 3.1 | 2 | 9887 |
| 1 | 17 | 1116 | 3.875 | 34.458 | 2 | 61.72 | 2 | -129.8 | 5.3 | 2 | 9886 |
| 1 | 18 | 1217 | 3.472 | 34.505 | 2 | 75.37 | 2 | -154.4 | 3.1 | 2 | 9885 |
| 1 | 19 | 1318 | 3.170 | 34.543 | 2 | 86.65 | 2 | -154.3 | 5.2 | 2 | 9884 |
| 1 | 20 | 1418 | 2.947 | 34.569 | 2 | 94.34 | 2 | -182.0 | 3.1 | 2 | 9882 |
| 1 | 21 | 1517 | 2.786 | 34.585 | 2 | 99.61 | 2 | -181.5 | 4.9 | 2 | 10250 |
| 1 | 22 | 1619 | 2.646 | 34.599 | 2 | 104.28 | 2 | -181.1 | 7.3 | 2 | 10249 |
| 1 | 23 | 1826 | 2.427 | 34.620 | 2 | 111.04 | 2 | -193.9 | 1.9 | 2 | 10058 |
| 1 | 24 | 2027 | 2.271 | 34.636 | 2 | 115.56 | 2 | -200.4 | 2.0 | 2 | 10057 |
| 1 | 25 | 2225 | 2.147 | 34.648 | 2 | 119.27 | 2 | -202.7 | 1.8 | 2 | 10056 |
| 1 | 26 | 2433 | 2.017 | 34.662 | 2 | 121.96 | 2 | -201.9 | 1.8 | 2 | 10055 |
| 1 | 27 | 2639 | 1.940 | 34.668 | 2 | 123.81 | 2 | -209.3 | 1.8 | 2 | 10054 |
| 1 | 28 | 2842 | 1.881 | 34.676 | 2 | 125.46 | 2 | -208.0 | 2.5 | 2 | 10037 |
| 1 | 29 | 3046 | 1.843 | 34.679 | 2 | 126.90 | 2 | -209.0 | 2.3 | 2 | 10036 |
| 1 | 30 | 3250 | 1.836 | 34.680 | 2 | 127.29 | 2 | -206.6 | 2.8 | 2 | 10035 |
| 1 | 31 | 3454 | 1.835 | 34.682 | 2 | 128.10 | 2 | -208.8 | 2.6 | 2 | 10034 |
| 1 | 32 | 3659 | 1.844 | 34.683 | 2 | 128.28 | 2 | -202.9 | 3.1 | 2 | 10033 |
| 1 | 33 | 3862 | 1.856 | 34.683 | 2 | 128.67 | 2 | -205.4 | 2.3 | 2 | 10023 |
| 1 | 34 | 4067 | 1.871 | 34.685 | 2 | 128.85 | 2 | -209.5 | 2.1 | 2 | 10022 |
| 1 | 35 | 4271 | 1.889 | 34.685 | 2 | 129.24 | 2 | -207.3 | 2.3 | 2 | 10021 |
| 1 | 37 | 4491 | 1.909 | 34.684 | 2 | 129.21 | 2 | -202.4 | 2.8 | 2 | 10020 |

a. Replicate analysis. Only one result kept

Station 30

| | | Latitude | | 24.365°S | | Date | | 9/7/92 | | | |
|------|------|-------------|------------|-----------|---|--------------------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 176.955°E | | Bottom Depth | | 4447 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 1 | 3 | 21.372 | 35.637 | 2 | 1.66 | 2 | 117.3 | 5.0 | 2 | 10104 |
| 1 | 4 | 107 | 20.625 | 35.640 | 2 | 1.41 | 2 | 120.5 | 3.6 | 2 | 10103 |
| 1 | 6 | 223 | 18.137 | 35.570 | 2 | 1.78 | 2 | 106.2 | 3.4 | 2 | 10102 |
| 1 | 8 | 325 | 15.482 | 35.336 | 2 | 3.15 | 2 | 85.6 | 4.9 | 2 | 10101 |
| 1 | 10 | 426 | 12.960 | 35.095 | 2 | 5.31 | 2 | 50.7 | 4.4 | 2 | 10100 |

Station 30 (Continued)

| | | Latitude | | 24.365°S | | Date | | 9/7/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 176.955°E | | Bottom Depth | | 4447 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 11 | 514 | 10.771 | 34.838 | 2 | 6.90 | 2 | 17.4 | 3.4 | 2 | 10099 |
| 1 | 12 | 606 | 8.832 | 34.613 | 2 | 8.48 | 2 | -6.1 | 3.8 | 2 | 10098 |
| 1 | 14 | 780 | 6.628 | 34.411 | 2 | 14.66 | 2 | -57.6 | 6.0 | 2 | 10097 |
| 1 | 15 | 876 | 5.824 | 34.376 | 2 | 21.44 | 2 | -82.6 | 5.6 | 2 | 10096 |
| 1 | 18 | 1156 | 3.933 | 34.459 | 2 | 61.21 | 2 | -149.4 | 4.3 | 2 | 10095 |
| 1 | 21 | 1427 | 3.051 | 34.558 | 2 | 91.17 | 2 | -163.4 | 2.4 | 2 | 10053 |
| 1 | 24 | 2009 | 2.304 | 34.624 | 2 | 113.83 | 2 | -203.4 | 4.8 | 2 | 10934 |
| 1 | 27 | 2600 | 1.967 | 34.666 | 2 | 122.30 | 2 | -205.5 | 2.0 | 2 | 10070 |
| 1 | 30 | 3185 | 1.850 | 34.679 | 2 | 125.39 | 2 | -206.9 | 2.4 | 2 | 10069 |
| 1 | 33 | 3790 | 1.848 | 34.683 | 2 | 128.29 | 2 | -202.2 | 3.8 | 2 | 10935 |
| 1 | 37 | 4474 | 1.906 | 34.683 | 2 | 128.65 | 2 | -218.2 | 3.9 | 2 | 10936 |

Station 33

| | | Latitude | | 23.065°S | | Date | | 9/8/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 177.183°E | | Bottom Depth | | 4334 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 2 | 2 | 22.954 | 31.754 | 2 | 1.13 | 2 | 120.8 | 19.8 | 2 | 9878 |
| 1 | 5 | 106 | 22.045 | 35.667 | 3 | 0.90 | 2 | 127.4 | 17.3 | 2 | 9877 |
| 1 | 6 | 155 | 21.865 | 35.639 | 2 | 0.90 | 2 | 127.6 | 12.6 | 2 | 9876 |
| 1 | 7 | 206 | 19.935 | 35.626 | 2 | 0.89 | 2 | 139.9 | 12.7 | 3 | 9875 |
| 1 | 9 | 307 | 17.678 | 35.557 | 2 | 1.67 | 2 | 87.7 | 11.9 | 2 | 9874 |
| 1 | 10 | 356 | 15.867 | 35.387 | 2 | 2.26 | 2 | 38.4 | 14.0 | 3 | 9873 |
| 1 | 11 | 407 | 14.186 | 35.201 | 2 | 3.84 | 2 | 80.8 | 14.9 | 2 | 9872 |
| 1 | 12 | 507 | 11.236 | 35.641 | 4 | 6.42 | 4 | 66.5 | 8.7 | 4 | 10077 |
| 1 | 13 | 608 | 8.444 | 34.556 | 2 | 8.61 | 2 | -1.7 | 9.6 | 2 | 9775 |
| 1 | 14 | 708 | 6.907 | 34.425 | 2 | 13.38 | 2 | -43.3 | 10.4 | 2 | 9774 |
| 1 | 15 | 809 | 5.962 | 34.372 | 2 | 20.14 | 2 | -63.3 | 13.4 | 2 | 9946 |
| 1 | 16 | 910 | 5.440 | 34.368 | 2 | 27.50 | 2 | -103.4 | 10.8 | 2 | 9773 |
| 1 | 17 | 1010 | 4.928 | 34.384 | 2 | 35.86 | 2 | -108.9 | 8.2 | 2 | 9772 |
| 1 | 18 | 1110 | 4.427 | 34.417 | 2 | 48.00 | 2 | -120.5 | 8.6 | 2 | 9771 |
| 1 | 19 | 1212 | 4.013 | 34.452 | 2 | 59.95 | 2 | -176.4 | 9.7 | 3 | 9770 |
| 1 | 20 | 1313 | 3.566 | 34.499 | 2 | 73.93 | 2 | -160.6 | 8.3 | 2 | 9769 |
| 1 | 22 | 1515 | 3.002 | 34.559 | 2 | 93.41 | 2 | -172.1 | 11.9 | 2 | 10114 |
| 1 | 23 | 1617 | 2.859 | 34.578 | 2 | 98.05 | 2 | -183.9 | 12.9 | 2 | 10113 |
| 1 | 24 | 1819 | 2.550 | 34.608 | 2 | 107.81 | 2 | -186.5 | 11.2 | 2 | 10112 |
| 1 | 25 | 2022 | 2.379 | 34.626 | 2 | 112.30 | 2 | -232.4 | 5.3 | 3 | 10052 |
| 1 | 26 | 2224 | 2.218 | 34.641 | 2 | 116.61 | 2 | -234.9 | 5.6 | 3 | 10051 |
| 1 | 27 | 2427 | 2.078 | 34.654 | 2 | 120.52 | 2 | -205.9 | 6.5 | 2 | 10050 |
| 1 | 28 | 2632 | 1.964 | 34.665 | 2 | 123.41 | 2 | -200.9 | 5.6 | 2 | 10049 |

Station 33 (Continued)

| | | Latitude | | 23.065°S | | Date | | 9/8/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 177.183°E | | Bottom Depth | | 4334 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 29 | 2836 | 1.911 | 34.673 | 2 | 124.64 | 2 | -202.5 | 7.5 | 2 | 10076 |
| 1 | 30 | 3040 | 1.869 | 34.677 | 2 | 125.67 | 2 | -194.8 | 7.5 | 3 | 10075 |
| 1 | 31 | 3244 | 1.847 | 34.680 | 2 | 126.69 | 2 | -195.6 | 8.2 | 3 | 10074 |
| 1 | 32 | 3447 | 1.837 | 34.681 | 2 | 127.30 | 2 | -201.2 | 7.9 | 2 | 10073 |
| 1 | 33 | 3651 | 1.840 | 34.682 | 2 | 127.90 | 2 | -196.8 | 6.0 | 2 | 10072 |
| 1 | 34 | 3854 | 1.849 | 34.684 | 2 | 128.51 | 2 | -197.4 | 5.8 | 6 | 10071 |
| 1 | 35 | 4059 | 1.863 | 34.684 | 2 | 128.70 | 2 | -197.4 | 17.4 | 2 | 10366 |
| 1 | 37 | 4397 | 1.897 | 34.685 | 2 | 128.68 | 2 | -197.5 | 6.2 | 2 | 10067 |

Station 37

| | | Latitude | | 21.422°S | | Date | | 9/9/92 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 177.463°E | | Bottom Depth | | 3793 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 4 | 3 | 22.735 | 35.700 | 2 | 1.69 | 2 | 120.9 | 9.7 | 2 | 10162 |
| 1 | 6 | 56 | 22.297 | 35.680 | 2 | 1.66 | 2 | 130.7 | 9.4 | 2 | 10161 |
| 1 | 7 | 105 | 21.558 | 35.644 | 2 | 1.65 | 2 | 115.6 | 11.5 | 2 | 10143 |
| 1 | 8 | 153 | 20.712 | 35.636 | 2 | 1.64 | 2 | 116.4 | 13.3 | 2 | 10142 |
| 1 | 9 | 201 | 19.573 | 35.617 | 2 | 2.02 | 2 | 118.9 | 10.8 | 2 | 10141 |
| 1 | 10 | 249 | 18.300 | 35.581 | 2 | 2.21 | 2 | 108.9 | 11.8 | 2 | 10140 |
| 1 | 11 | 298 | 17.078 | 35.530 | 2 | 2.40 | 2 | 116.9 | 14.9 | 3 | 10139 |
| 1 | 12 | 347 | 15.499 | 35.373 | 2 | 3.38 | 2 | 68.3 | 9.9 | 2 | 10138 |
| 1 | 13 | 395 | 14.246 | 35.225 | 2 | 3.97 | 2 | 4.5 | 19.6 | 3 | 10137 |
| 1 | 14 | 496 | 11.104 | 34.852 | 2 | 6.15 | 2 | -21.2 | 26.8 | 3 | 10136 |
| 1 | 15 | 600 | 8.397 | 34.553 | 2 | 9.73 | 2 | -32.5 | 14.7 | 2 | 10135 |
| 1 | 16 | 703 | 6.914 | 34.423 | 2 | 13.51 | 2 | -35.9 | 11.0 | 2 | 10134 |
| 1 | 17 | 805 | 5.921 | 34.377 | 2 | 21.88 | 2 | -130.7 | 11.7 | 3 | 10118 |
| 1 | 18 | 902 | 5.031 | 34.385 | 2 | 35.43 | 2 | -143.2 | 12.9 | 3 | 10117 |
| 1 | 19 | 1004 | 4.380 | 34.418 | 2 | 50.00 | 2 | -215.3 | 14.8 | 3 | 10116 |
| 1 | 20 | 1108 | 3.950 | 34.463 | 2 | 64.18 | 2 | -126.7 | 15.7 | 2 | 10115 |
| 1 | 21 | 1204 | 3.588 | 34.500 | 2 | 75.60 | 2 | -151.8 | 7.2 | 2 | 10019 |
| 1 | 22 | 1299 | 3.289 | 34.532 | 2 | 85.65 | 2 | -157.7 | 7.1 | 2 | 10018 |
| 1 | 23 | 1399 | 3.033 | 34.559 | 2 | 94.13 | 2 | -201.2 | 7.8 | 3 | 10016 |
| 1 | 24 | 1501 | 2.816 | 34.582 | 2 | 101.03 | 2 | -188.2 | 7.0 | 2 | 10015 |
| 1 | 25 | 1598 | 2.670 | 34.595 | 2 | 105.92 | 2 | -180.7 | 6.9 | 2 | 10014 |
| 1 | 26 | 1803 | 2.443 | 34.618 | 2 | 112.28 | 2 | -184.7 | 8.5 | 2 | 10013 |
| 1 | 27 | 2006 | 2.262 | 34.636 | 2 | 117.85 | 2 | -208.0 | 6.5 | 3 | 10012 |
| 1 | 28 | 2211 | 2.137 | 34.648 | 2 | 120.74 | 2 | -193.4 | 6.6 | 2 | 10011 |
| 1 | 29 | 2415 | 2.017 | 34.660 | 2 | 123.23 | 2 | -196.5 | 6.8 | 2 | 10010 |
| 1 | 30 | 2618 | 1.934 | 34.669 | 2 | 125.31 | 2 | -211.2 | 9.8 | 2 | 10009 |

Station 37 (Continued)

| | | Latitude | | 21.422°S | | Date | | 9/9/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 177.463°E | | Bottom Depth | | 3793 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 31 | 2824 | 1.879 | 34.675 | 2 | 126.77 | 2 | -220.3 | 9.5 | 3 | 10008 |
| 1 | 32 | 3029 | 1.841 | 34.678 | 2 | 128.23 | 2 | -207.9 | 7.4 | 2 | 10007 |
| 1 | 33 | 3233 | 1.829 | 34.681 | 2 | 128.85 | 2 | -207.1 | 7.5 | 2 | 10006 |
| 1 | 34 | 3439 | 1.832 | 34.681 | 2 | 129.25 | 2 | -214.7 | 8.8 | 3 | 10005 |
| 1 | 35 | 3643 | 1.837 | 34.683 | 2 | 129.66 | 2 | -201.9 | 8.9 | 2 | 10947 |
| 1 | 37 | 3828 | 1.837 | 34.683 | 2 | 130.49 | 2 | -223.1 | 8.2 | 3 | 10119 |

Station 47

| | | Latitude | | 19.050°S | | Date | | 9/11/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 177.643°E | | Bottom Depth | | 2570 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 4 | 2 | 25.044 | 35.663 | 2 | 1.84 | 2 | 101.0 | 4.8 | 2 | 9790 |
| 1 | 13 | 105 | 23.823 | 35.659 | 2 | 1.80 | 2 | 114.1 | 9.4 | 2 | 9789 |
| 1 | 15 | 204 | 20.833 | 35.700 | 2 | 1.96 | 2 | 120.4 | 5.0 | 2 | 9788 |
| 1 | 17 | 305 | 17.097 | 35.447 | 2 | 3.11 | 2 | 100.8 | 5.0 | 2 | 9787 |
| 1 | 19 | 405 | 12.887 | 34.987 | 2 | 6.60 | 2 | 66.2 | 5.5 | 2 | 9786 |
| 1 | 20 | 505 | 9.559 | 34.653 | 2 | 11.09 | 2 | -25.6 | 4.5 | 2 | 9644 |
| 1 | 21 | 606 | 7.695 | 34.496 | 2 | 15.58 | 2 | -40.2 | 4.3 | 6 | 10079 |
| 1 | 22 | 706 | 6.017 | 34.401 | 2 | 24.96 | 2 | -91.3 | 3.4 | 2 | 9643 |
| 1 | 23 | 806 | 5.038 | 34.405 | 2 | 39.04 | 2 | -134.3 | 2.6 | 3 | 9642 |
| 1 | 24 | 906 | 4.329 | 34.447 | 2 | 54.89 | 2 | -134.8 | 2.7 | 2 | 9641 |
| 1 | 25 | 1005 | 4.022 | 34.471 | 2 | 63.90 | 2 | -151.2 | 2.7 | 2 | 9640 |
| 1 | 27 | 1206 | 3.434 | 34.523 | 2 | 81.59 | 2 | -177.9 | 3.3 | 2 | 9639 |
| 1 | 29 | 1409 | 2.929 | 34.571 | 2 | 97.63 | 2 | -206.8 | 3.2 | 3 | 9638 |
| 1 | 32 | 1817 | 2.436 | 34.617 | 2 | 111.04 | 2 | -207.5 | 3.5 | 2 | 9637 |
| 1 | 34 | 2217 | 2.126 | 34.648 | 2 | 119.74 | 2 | -207.0 | 2.5 | 2 | 9636 |
| 1 | 37 | 2592 | 1.999 | 34.661 | 2 | 123.81 | 2 | -235.7 | 2.8 | 3 | 9635 |

WOCE Cruise P18
EXPOCODE: 31DSCG94/2,3

2/2/94 - 4/3/94

Chief Scientists: B. Taft and G. Johnson
 Principal Investigator for $\Delta^{14}\text{C}$: P.D. Quay
 NOSAMS Report: 98-064

Station 10

| | | Latitude | 66.995°S | | | | | Date | 2/27/94 | | |
|------|------|-------------|------------|--------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | 103.007°W | | | | | Bottom Depth | 3691 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 3 | 36 | 10 | 2.226 | 33.475 | 2 | 8.31 | 2 | -34.8 | 5.5 | 2 | 8848 |
| 3 | 35 | 25 | 2.079 | 33.699 | 2 | 11.84 | 2 | -64.4 | 2.8 | 2 | 9280 |
| 3 | 34 | 48 | 0.490 | 33.790 | 2 | 14.48 | 2 | -67.9 | 3.0 | 2 | 9281 |
| 3 | 33 | 78 | -0.407 | 33.873 | 2 | 20.12 | 2 | -58.5 | 2.6 | 2 | 9282 |
| 3 | 30 | 199 | 1.088 | 34.126 | 2 | 37.45 | 2 | -84.0 | 3.4 | 2 | 9283 |
| 3 | 29 | 249 | 2.044 | 34.284 | 2 | 50.94 | 2 | -98.6 | 2.7 | 2 | 9284 |
| 3 | 28 | 291 | 2.117 | 34.346 | 2 | 57.03 | 2 | -110.0 | 2.6 | 2 | 9285 |
| 3 | 27 | 400 | 2.135 | 34.456 | 2 | 67.00 | 2 | -138.3 | 2.5 | 2 | 9286 |
| 3 | 26 | 498 | 2.168 | 34.532 | 2 | 72.82 | 2 | -190.2 | 5.9 | 3 | 9287 |
| 3 | 25 | 599 | 2.174 | 34.588 | 2 | 75.44 | 2 | -151.6 | 2.7 | 2 | 9288 |
| 3 | 21 | 706 | 2.144 | 34.634 | 2 | 78.55 | 2 | -153.6 | 2.5 | 2 | 9289 |
| 3 | 23 | 709 | 2.142 | 34.636 | 2 | 78.20 | 2 | -150.9 | 2.6 | 2 | 9290 |
| 3 | 19 | 893 | 2.047 | 34.685 | 2 | 81.38 | 2 | -166.5 | 2.7 | 2 | 9291 |
| 3 | 18 | 998 | 1.981 | 34.701 | 2 | 84.05 | 2 | -158.6 | 2.8 | 2 | 9292 |
| 3 | 17 | 1194 | 1.844 | 34.724 | 2 | 88.54 | 2 | -155.1 | 3.3 | 2 | 9293 |
| 3 | 16 | 1399 | 1.665 | 34.730 | 2 | 94.80 | 2 | -155.7 | 4.0 | 2 | 9294 |
| 3 | 15 | 1599 | 1.498 | 34.730 | 2 | 99.06 | 2 | -156.9 | 2.5 | 2 | 9295 |
| 3 | 14 | 1800 | 1.357 | 34.728 | 2 | 100.85 | 2 | -156.0 | 2.8 | 2 | 9296 |
| 3 | 13 | 1994 | 1.239 | 34.725 | 2 | 105.39 | 2 | -166.4 | 2.7 | 2 | 9297 |
| 3 | 12 | 2249 | 1.084 | 34.719 | 2 | -9 | 1 | -167.3 | 2.7 | 2 | 9298 |
| 3 | 10 | 2748 | 0.847 | 34.710 | 2 | 120.89 | 2 | -161.1 | 2.7 | 2 | 9299 |
| 3 | 9 | 2997 | 0.758 | 34.707 | 2 | 125.07 | 2 | -170.6 | 4.6 | 2 | 9300 |
| 3 | 8 | 3289 | 0.628 | 34.705 | 2 | 126.89 | 2 | -158.4 | 2.4 | 2 | 9301 |
| 3 | 7 | 3597 | 0.500 | 34.703 | 2 | 127.43 | 2 | -155.0 | 3.5 | 2 | 9302 |
| 3 | 6 | 3892 | 0.422 | 34.702 | 2 | 130.37 | 2 | -166.4 | 3.7 | 2 | 9303 |
| 3 | 5 | 4199 | 0.366 | 34.702 | 2 | 132.12 | 2 | -159.5 | 3.6 | 2 | 9304 |
| 3 | 3 | 4497 | 0.349 | 34.704 | 2 | 138.26 | 2 | -173.9 | 3.6 | 2 | 9305 |
| 3 | 4 | 4497 | 0.349 | 34.701 | 2 | 137.85 | 2 | -172.7 | 2.6 | 2 | 9306 |
| 3 | 2 | 4810 | 0.357 | 34.702 | 2 | -9 | 1 | -169.8 | 2.4 | 2 | 9307 |

Station 16

| | | Latitude | | | | 63.989°S | | | | Date | | 3/1/94 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|------|--------|--|
| | | Longitude | | | | 102.987°W | | | | Bottom Depth | | 5018 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 36 | 9 | 2.794 | 33.890 | 2 | 8.18 | 2 | -63.9 | 3.1 | 2 | 9309 | | |
| 1 | 35 | 26 | 2.795 | 33.890 | 2 | 7.98 | 2 | -53.9 | 3.0 | 2 | 9310 | | |
| 1 | 34 | 49 | 2.793 | 33.891 | 2 | 8.39 | 2 | -61.6 | 2.6 | 2 | 9311 | | |
| 1 | 33 | 75 | 2.066 | 33.962 | 2 | 12.00 | 2 | -57.9 | 2.5 | 2 | 9312 | | |
| 1 | 32 | 98 | 1.206 | 34.005 | 2 | 17.79 | 2 | -67.6 | 2.6 | 2 | 9313 | | |
| 1 | 31 | 148 | 1.100 | 34.011 | 2 | 18.83 | 2 | -59.8 | 3.5 | 2 | 9314 | | |
| 1 | 30 | 207 | 1.003 | 34.018 | 2 | 22.11 | 2 | -71.9 | 2.6 | 2 | 9315 | | |
| 1 | 29 | 297 | 2.359 | 34.251 | 2 | 43.37 | 2 | -100.8 | 6.1 | 6 | 9316 | | |
| 1 | 28 | 399 | 2.354 | 34.345 | 2 | 53.87 | 2 | -118.4 | 3.1 | 2 | 9317 | | |
| 1 | 26 | 596 | 2.299 | 34.502 | 2 | 68.26 | 2 | -149.4 | 2.9 | 2 | 9318 | | |
| 1 | 25 | 701 | 2.226 | 34.561 | 2 | 73.57 | 2 | -151.0 | 2.7 | 2 | 9319 | | |
| 1 | 21 | 902 | 2.155 | 34.636 | 2 | 80.33 | 2 | -153.1 | 3.7 | 2 | 9320 | | |
| 1 | 18 | 1201 | 2.005 | 34.700 | 2 | 84.53 | 2 | -159.4 | 3.2 | 2 | 9359 | | |
| 1 | 16 | 1601 | 1.717 | 34.728 | 2 | 92.89 | 2 | -159.5 | 2.9 | 2 | 9360 | | |
| 1 | 14 | 2001 | 1.406 | 34.727 | 2 | 104.16 | 2 | -163.5 | 3.5 | 2 | 9362 | | |
| 1 | 12 | 2502 | 1.097 | 34.718 | 2 | 112.07 | 2 | -165.2 | 2.6 | 2 | 9363 | | |
| 1 | 10 | 2998 | 0.874 | 34.709 | 2 | 120.85 | 2 | -168.3 | 2.7 | 2 | 9743 | | |
| 1 | 8 | 3501 | 0.669 | 34.698 | 3 | 127.42 | 2 | -163.8 | 2.8 | 2 | 9744 | | |
| 1 | 6 | 4001 | 0.468 | 34.702 | 2 | 128.72 | 2 | -170.3 | 2.8 | 2 | 9745 | | |
| 1 | 4 | 4499 | 0.393 | 34.701 | 2 | 133.85 | 2 | -164.9 | 2.7 | 2 | 9746 | | |
| 1 | 2 | 4999 | 0.381 | 34.701 | 2 | 138.95 | 2 | -161.8 | 3.8 | 2 | 9747 | | |
| 1 | 1 | 5093 | 0.387 | 34.701 | 2 | 140.70 | 2 | -155.8 | 2.5 | 2 | 9748 | | |

Station 22

| | | Latitude | | | | 63.989°S | | | | Date | | 3/1/94 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|------|--------|--|
| | | Longitude | | | | 102.987°W | | | | Bottom Depth | | 5018 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 35 | 26 | 4.438 | 33.924 | 2 | 0.36 | 2 | -25.4 | 4.2 | 2 | 9750 | | |
| 1 | 34 | 47 | 4.428 | 33.925 | 2 | 0.11 | 2 | -24.3 | 2.9 | 2 | 9751 | | |
| 1 | 32 | 101 | 3.254 | 34.021 | 2 | 7.49 | 2 | -22.5 | 3.5 | 2 | 9752 | | |
| 1 | 31 | 148 | 2.956 | 34.013 | 2 | 9.40 | 2 | -21.7 | 3.3 | 2 | 9753 | | |
| 1 | 30 | 199 | 2.614 | 34.008 | 2 | 12.41 | 2 | -33.9 | 2.7 | 2 | 9754 | | |
| 1 | 29 | 303 | 2.835 | 34.092 | 2 | 18.66 | 2 | -39.1 | 2.9 | 2 | 9755 | | |
| 1 | 28 | 402 | 3.031 | 34.199 | 2 | 29.37 | 2 | -63.2 | 3.5 | 2 | 9756 | | |
| 1 | 27 | 498 | 2.985 | 34.265 | 2 | 37.39 | 2 | -79.2 | 2.8 | 2 | 9757 | | |
| 1 | 25 | 701 | 2.683 | 34.383 | 2 | 53.82 | 2 | -110.7 | 2.8 | 2 | 9758 | | |
| 1 | 23 | 802 | 2.551 | 34.446 | 2 | 61.79 | 2 | -121.9 | 3.2 | 2 | 9759 | | |
| 1 | 21 | 900 | 2.510 | 34.506 | 2 | 67.66 | 2 | -134.8 | 2.6 | 2 | 9760 | | |
| 1 | 19 | 1001 | 2.375 | 34.543 | 2 | 71.95 | 2 | -135.7 | 2.7 | 2 | 9761 | | |

Station 22

| | | Latitude | | 63.989°S | | Date | | 3/1/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.987°W | | Bottom Depth | | 5018 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 18 | 1201 | 2.296 | 34.619 | 2 | 79.30 | 2 | -145.6 | 2.7 | 2 | 9762 |
| 1 | 17 | 1397 | 2.185 | 34.666 | 2 | 82.71 | 2 | -158.2 | 3.7 | 2 | 10087 |
| 1 | 16 | 1600 | 2.073 | 34.698 | 2 | 85.94 | 2 | -146.9 | 3.4 | 2 | 10088 |
| 1 | 15 | 1804 | 1.933 | 34.718 | 2 | 89.51 | 2 | -151.7 | 2.8 | 2 | 10090 |
| 1 | 14 | 2005 | 1.785 | 34.727 | 2 | 93.90 | 2 | -141.4 | 3.2 | 2 | 10086 |
| 1 | 13 | 2247 | 1.609 | 34.729 | 2 | 98.86 | 2 | -138.6 | 3.1 | 2 | 10085 |
| 1 | 12 | 2499 | 1.422 | 34.726 | 2 | 104.78 | 2 | -163.3 | 3.5 | 2 | 10193 |
| 1 | 11 | 2740 | 1.294 | 34.722 | 2 | 109.66 | 2 | -169.8 | 5.3 | 2 | 10082 |
| 1 | 10 | 3003 | 1.156 | 34.718 | 2 | 113.81 | 2 | -164.6 | 3.4 | 2 | 10194 |
| 1 | 9 | 3243 | 1.022 | 34.714 | 2 | 118.38 | 2 | -160.5 | 3.3 | 2 | 10195 |
| 1 | 8 | 3501 | 0.887 | 34.710 | 2 | 123.14 | 2 | -159.6 | 5.6 | 2 | 10196 |
| 1 | 7 | 3750 | 0.733 | 34.707 | 2 | 127.43 | 2 | -166.1 | 6.7 | 2 | 10081 |
| 1 | 6 | 3997 | 0.607 | 34.704 | 2 | 130.79 | 2 | -161.2 | 3.9 | 2 | 10083 |
| 1 | 5 | 4250 | 0.510 | 34.702 | 2 | 133.30 | 2 | -161.8 | 5.6 | 2 | 10197 |
| 1 | 4 | 4499 | 0.447 | 34.701 | 2 | 135.73 | 2 | -160.0 | 3.0 | 2 | 10089 |
| 1 | 2 | 4946 | 0.424 | 34.701 | 2 | 134.20 | 2 | -162.2 | 6.4 | 2 | 10080 |
| 1 | 1 | 5073 | 0.427 | 34.702 | 2 | 136.37 | 2 | -170.2 | 2.8 | 2 | 10084 |

Station 28

| | | Latitude | | 57.818°S | | Date | | 3/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 4591 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 5.427 | 33.963 | 2 | 2.29 | 2 | -29.7 | 3.7 | 2 | 10201 |
| 1 | 35 | 26 | 5.426 | 33.963 | 2 | 2.12 | 2 | -14.2 | 4.7 | 2 | 10122 |
| 1 | 33 | 77 | 5.410 | 33.966 | 2 | 2.31 | 2 | 9.5 | 5.3 | 2 | 10126 |
| 1 | 32 | 94 | 5.358 | 34.140 | 2 | 4.67 | 2 | -1.8 | 3.6 | 2 | 10200 |
| 1 | 31 | 149 | 4.998 | 34.157 | 2 | 8.13 | 2 | -0.0 | 3.5 | 2 | 10208 |
| 1 | 30 | 203 | 5.062 | 34.192 | 2 | 8.42 | 2 | -54.9 | 2.9 | 6 | 10131 14753 |
| 1 | 29 | 303 | 4.557 | 34.155 | 2 | 16.32 | 2 | 1.9 | 3.9 | 2 | 10207 |
| 1 | 28 | 400 | 4.269 | 34.167 | 2 | 22.12 | 2 | -22.7 | 5.2 | 2 | 10198 |
| 1 | 27 | 496 | 3.894 | 34.194 | 2 | 32.15 | 2 | -158.7 | 2.6 | 4 | 10130 |
| 1 | 26 | 605 | 3.833 | 34.286 | 2 | 38.32 | 2 | -70.5 | 3.5 | 2 | 10199 |
| 1 | 25 | 700 | 3.490 | 34.314 | 2 | 38.24 | 2 | -81.5 | 3.0 | 2 | 10124 |
| 1 | 23 | 793 | 3.266 | 34.359 | 2 | 46.17 | 2 | -97.0 | 2.8 | 2 | 10127 |
| 1 | 21 | 902 | 2.994 | 34.401 | 2 | 53.94 | 2 | -101.4 | 5.0 | 2 | 10123 |
| 1 | 18 | 1200 | 2.522 | 34.528 | 2 | 69.60 | 2 | -147.6 | 2.8 | 2 | 10133 |
| 1 | 16 | 1598 | 2.232 | 34.660 | 2 | 81.28 | 2 | -149.0 | 4.2 | 2 | 10125 |
| 1 | 14 | 2000 | 2.043 | 34.710 | 2 | 87.88 | 2 | -143.1 | 3.2 | 2 | 10206 |

Station 28

| | | Latitude | | 57.818°S | | Date | | 3/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 4591 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 2499 | 1.624 | 34.727 | 2 | 100.28 | 2 | -161.7 | 3.2 | 2 | 10203 |
| 1 | 10 | 2996 | 1.280 | 34.722 | 2 | 107.77 | 2 | -176.4 | 4.7 | 2 | 10202 |
| 1 | 8 | 3500 | 0.979 | 34.713 | 2 | 120.02 | 2 | -158.1 | 6.1 | 2 | 10204 |
| 1 | 6 | 3998 | 0.694 | 34.707 | 2 | 129.40 | 2 | -159.9 | 2.6 | 2 | 10128 |
| 1 | 2 | 4500 | 0.532 | 34.704 | 2 | 137.28 | 2 | -5.5 | 3.3 | 4 | 10132 |
| 1 | 1 | 4734 | 0.523 | 34.704 | 2 | 135.73 | 2 | -161.8 | 3.1 | 2 | 10129 |

Station 33

| | | Latitude | | 54.501°S | | Date | | 3/8/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 4086 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 14 | 7.911 | 34.255 | 2 | 5.42 | 2 | 24.3 | 7.7 | 2 | 13520 |
| 2 | 35 | 25 | 7.910 | 34.256 | 2 | 5.56 | 6 | 33.1 | 4.1 | 2 | 13967 |
| 2 | 34 | 49 | 7.908 | 34.257 | 2 | 5.83 | 2 | 30.1 | 5.2 | 2 | 14123 |
| 2 | 33 | 70 | 7.895 | 34.256 | 2 | 5.94 | 2 | 31.9 | 7.4 | 6 | 13974 13977 |
| 2 | 31 | 125 | 6.738 | 34.289 | 2 | 9.05 | 2 | 23.5 | 4.5 | 2 | 13522 |
| 2 | 30 | 148 | 6.353 | 34.298 | 2 | 10.26 | 2 | 25.2 | 6.2 | 2 | 13955 |
| 2 | 29 | 198 | 6.271 | 34.315 | 2 | 10.14 | 2 | 31.5 | 7.5 | 2 | 13528 |
| 2 | 28 | 249 | 6.125 | 34.311 | 2 | 10.94 | 2 | 22.1 | 4.7 | 2 | 13938 |
| 2 | 27 | 301 | 6.003 | 34.304 | 2 | 11.43 | 2 | -0.2 | 4.2 | 2 | 13513 |
| 2 | 26 | 351 | 5.931 | 34.302 | 2 | 11.82 | 2 | 11.0 | 4.1 | 2 | 13975 |
| 2 | 25 | 401 | 5.842 | 34.295 | 2 | 12.02 | 2 | 7.2 | 5.5 | 2 | 13512 |
| 2 | 23 | 501 | 5.532 | 34.266 | 2 | 13.10 | 2 | -9.5 | 4.5 | 2 | 13526 |
| 2 | 21 | 601 | 5.200 | 34.239 | 2 | 15.23 | 6 | -4.5 | 3.3 | 6 | 13957 14119 |
| 2 | 19 | 700 | 4.846 | 34.236 | 2 | 20.33 | 2 | -52.8 | 5.5 | 2 | 13518 |
| 2 | 18 | 797 | 4.553 | 34.270 | 2 | 26.15 | 2 | -59.0 | 5.6 | 2 | 13516 |
| 2 | 17 | 904 | 4.131 | 34.290 | 2 | 32.83 | 2 | -75.5 | 3.4 | 2 | 13521 |
| 2 | 16 | 1003 | 3.705 | 34.315 | 2 | 40.10 | 2 | -82.0 | 9.4 | 2 | 13976 |
| 2 | 15 | 1201 | 3.081 | 34.380 | 2 | 53.69 | 2 | -104.1 | 3.3 | 2 | 13965 |
| 2 | 14 | 1401 | 2.728 | 34.462 | 2 | 66.46 | 6 | -145.3 | 2.9 | 2 | 13524 |
| 2 | 13 | 1598 | 2.517 | 34.543 | 2 | 75.58 | 2 | -154.1 | 5.6 | 2 | 13511 |
| 2 | 12 | 1799 | 2.378 | 34.610 | 2 | 83.86 | 2 | -153.6 | 4.3 | 2 | 14118 |
| 2 | 11 | 2002 | 2.250 | 34.658 | 2 | 88.12 | 2 | -183.3 | 7.8 | 2 | 13517 |
| 2 | 10 | 2250 | 2.107 | 34.690 | 2 | 92.98 | 2 | -194.1 | 5.4 | 2 | 13527 |
| 2 | 9 | 2499 | 1.886 | 34.706 | 2 | 102.09 | 2 | -187.2 | 6.3 | 2 | 13519 |
| 2 | 8 | 2748 | 1.715 | 34.711 | 2 | 109.19 | 2 | -178.8 | 4.0 | 2 | 13514 |
| 2 | 7 | 2999 | 1.601 | 34.715 | 2 | 111.80 | 2 | -175.9 | 3.3 | 2 | 13964 |

Station 33

| | | Latitude | | 54.501°S | | Date | | 3/8/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 4086 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 6 | 3247 | 1.501 | 34.720 | 2 | 109.72 | 2 | -176.1 | 4.1 | 2 | 13966 |
| 2 | 5 | 3497 | 1.316 | 34.716 | 2 | 115.79 | 2 | -169.5 | 4.3 | 2 | 13525 |
| 2 | 4 | 3750 | 1.064 | 34.712 | 2 | 124.15 | 2 | -174.1 | 3.8 | 2 | 13515 |
| 2 | 3 | 3999 | 0.860 | 34.708 | 2 | 131.29 | 2 | -176.6 | 6.7 | 2 | 13956 |
| 2 | 1 | 4150 | 0.812 | 34.707 | 2 | 133.38 | 2 | -170.5 | 6.0 | 2 | 13529 |

Station 37

| | | Latitude | | 54.501°S | | Date | | 3/8/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 4086 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 11 | 8.551 | 34.255 | 2 | 1.53 | 2 | 25.5 | 2.9 | 2 | 10218 |
| 2 | 35 | 25 | 8.520 | 34.255 | 2 | 1.39 | 2 | 31.9 | 3.0 | 2 | 10215 |
| 2 | 33 | 74 | 8.455 | 34.254 | 2 | 1.25 | 2 | 38.6 | 4.1 | 2 | 10408 |
| 2 | 32 | 99 | 7.348 | 34.296 | 2 | 2.41 | 2 | 29.6 | 2.7 | 2 | 10220 |
| 2 | 30 | 148 | 6.445 | 34.303 | 2 | 5.60 | 2 | 20.9 | 3.8 | 2 | 10224 |
| 2 | 29 | 198 | 6.349 | 34.312 | 2 | 6.24 | 2 | 29.8 | 2.9 | 2 | 10212 |
| 2 | 27 | 299 | 6.184 | 34.310 | 2 | 7.18 | 2 | 20.9 | 4.6 | 2 | 10213 |
| 2 | 25 | 401 | 6.040 | 34.309 | 2 | 7.61 | 2 | 10.1 | 3.5 | 2 | 10222 |
| 2 | 23 | 499 | 5.942 | 34.306 | 2 | 7.56 | 2 | 28.3 | 3.9 | 2 | 10407 |
| 2 | 21 | 600 | 5.516 | 34.261 | 2 | 9.46 | 2 | -2.9 | 5.1 | 2 | 10216 |
| 2 | 19 | 701 | 5.080 | 34.238 | 2 | 14.08 | 2 | -19.8 | 2.9 | 2 | 10219 |
| 2 | 18 | 798 | 4.842 | 34.271 | 2 | 20.12 | 2 | -46.4 | 3.4 | 2 | 10217 |
| 2 | 17 | 900 | 4.427 | 34.295 | 2 | 27.05 | 2 | -57.2 | 3.8 | 2 | 10412 |
| 2 | 16 | 1001 | 3.925 | 34.309 | 2 | 33.84 | 2 | -85.1 | 2.5 | 2 | 10214 |
| 2 | 15 | 1200 | 3.252 | 34.361 | 2 | 46.81 | 2 | -104.7 | 4.1 | 2 | 10223 |
| 2 | 13 | 1596 | 2.589 | 34.524 | 2 | 71.41 | 2 | -144.4 | 3.4 | 2 | 10211 |
| 2 | 11 | 1998 | 2.281 | 34.652 | 2 | 81.74 | 2 | -158.4 | 3.3 | 2 | 10409 |
| 2 | 9 | 2498 | 1.968 | 34.706 | 2 | 95.70 | 2 | -171.2 | 3.8 | 2 | 10411 |
| 2 | 7 | 2999 | 1.616 | 34.712 | 2 | 105.25 | 2 | -176.0 | 2.8 | 2 | 10221 |
| 2 | 5 | 3500 | 1.322 | 34.718 | 2 | 113.30 | 2 | -175.8 | 3.5 | 2 | 10410 |
| 2 | 2 | 3999 | 0.847 | 34.708 | 2 | 126.15 | 2 | -164.1 | 2.9 | 2 | 10209 |
| 2 | 1 | 4054 | 0.817 | 34.707 | 2 | 129.57 | 2 | -163.2 | 2.5 | 2 | 10210 |

Station 41

| | | Latitude | | 49.163°S | | Date | | 3/11/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.000°W | | Bottom Depth | | 4203 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 12 | 10.281 | 34.156 | 2 | 0.00 | 2 | 52.3 | 4.5 | 2 | 10433 |
| 1 | 35 | 25 | 10.251 | 34.157 | 2 | 0.00 | 2 | 46.6 | 4.4 | 2 | 10429 |
| 1 | 34 | 49 | 10.006 | 34.160 | 2 | 0.00 | 2 | 59.6 | 6.1 | 2 | 10419 |
| 1 | 33 | 74 | 9.354 | 34.210 | 2 | 0.05 | 2 | 71.1 | 4.3 | 2 | 10434 |
| 1 | 32 | 100 | 7.473 | 34.253 | 2 | 1.52 | 2 | 47.3 | 3.4 | 2 | 10422 |
| 1 | 31 | 124 | 6.991 | 34.272 | 2 | 2.49 | 2 | 39.8 | 5.4 | 2 | 10425 |
| 1 | 30 | 150 | 6.821 | 34.291 | 2 | 3.03 | 2 | 50.8 | 7.4 | 2 | 10418 |
| 1 | 29 | 201 | 6.659 | 34.321 | 2 | 4.21 | 2 | 51.5 | 4.4 | 2 | 10414 |
| 1 | 28 | 249 | 6.588 | 34.325 | 2 | 3.60 | 2 | 36.6 | 6.0 | 2 | 10437 |
| 1 | 27 | 301 | 6.569 | 34.325 | 2 | 3.65 | 2 | 31.1 | 4.0 | 2 | 10420 |
| 1 | 26 | 349 | 6.538 | 34.326 | 2 | 3.88 | 2 | 40.3 | 5.0 | 2 | 10417 |
| 1 | 25 | 399 | 6.447 | 34.325 | 2 | 4.44 | 2 | 33.0 | 3.2 | 2 | 10421 |
| 1 | 23 | 499 | 6.139 | 34.302 | 2 | 6.71 | 2 | 32.6 | 5.6 | 2 | 10413 |
| 1 | 21 | 600 | 5.721 | 34.280 | 2 | 8.74 | 2 | 8.1 | 4.3 | 2 | 10440 |
| 1 | 19 | 698 | 5.320 | 34.261 | 2 | 11.50 | 2 | -9.2 | 5.0 | 2 | 10431 |
| 1 | 17 | 900 | 4.492 | 34.275 | 2 | 22.81 | 2 | -36.0 | 4.0 | 2 | 10416 |
| 1 | 16 | 999 | 3.996 | 34.297 | 2 | 29.98 | 2 | -78.4 | 4.6 | 2 | 10438 |
| 1 | 15 | 1201 | 3.305 | 34.368 | 2 | 46.47 | 2 | -109.8 | 3.9 | 2 | 10443 |
| 1 | 14 | 1400 | 2.879 | 34.455 | 2 | 61.65 | 2 | -129.6 | 4.2 | 2 | 10435 |
| 1 | 13 | 1598 | 2.616 | 34.528 | 2 | 72.39 | 2 | -151.7 | 3.0 | 2 | 10426 |
| 1 | 12 | 1799 | 2.447 | 34.594 | 2 | 82.77 | 2 | -161.4 | 4.4 | 2 | 10441 |
| 1 | 11 | 1999 | 2.291 | 34.643 | 2 | 89.44 | 2 | -155.8 | 3.7 | 2 | 10415 |
| 1 | 10 | 2249 | 2.128 | 34.680 | 2 | 94.88 | 2 | -168.4 | 4.2 | 2 | 10423 |
| 1 | 9 | 2500 | 1.938 | 34.698 | 2 | 99.86 | 2 | -174.9 | 3.0 | 2 | 10428 |
| 1 | 8 | 2751 | 1.758 | 34.704 | 2 | 106.69 | 2 | -173.1 | 3.7 | 2 | 10439 |
| 1 | 7 | 2984 | 1.655 | 34.708 | 2 | 110.72 | 2 | 36.9 | 6.7 | 4 | 10432 |
| | | | | | | | | | | | 14752 |
| 1 | 6 | 3249 | 1.530 | 34.713 | 2 | 113.38 | 2 | -178.1 | 5.0 | 2 | 10442 |
| 1 | 5 | 3500 | 1.326 | 34.711 | 2 | 117.19 | 2 | -182.1 | 3.5 | 2 | 10427 |
| 1 | 4 | 3752 | 1.062 | 34.709 | 2 | 123.79 | 2 | -175.4 | 2.9 | 2 | 10424 |
| 1 | 2 | 3999 | 0.839 | 34.708 | 2 | 131.58 | 2 | -168.4 | 3.8 | 2 | 10436 |
| 1 | 1 | 4287 | 0.767 | 34.706 | 2 | 133.30 | 2 | -175.2 | 3.5 | 2 | 10430 |

Station 47

| | | Latitude | | 45.993°S | | Date | | 3/12/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.999°W | | Bottom Depth | | 3907 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 12 | 11.246 | 34.124 | 2 | 4.51 | 2 | 53.6 | 4.2 | 2 | 10446 |
| 1 | 35 | 24 | 11.236 | 34.124 | 2 | 4.16 | 2 | 59.8 | 6.6 | 2 | 10631 |

Station 47

| | | Latitude | | 45.993°S | | Date | | 3/12/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.999°W | | Bottom Depth | | 3907 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 34 | 51 | 11.114 | 34.127 | 2 | 4.13 | 2 | 62.6 | 4.3 | 2 | 10444 |
| 1 | 33 | 76 | 8.868 | 34.153 | 2 | 4.82 | 2 | 61.8 | 6.6 | 2 | 10630 |
| 1 | 32 | 101 | 7.833 | 34.163 | 2 | 5.89 | 2 | 55.3 | 3.2 | 2 | 10447 |
| 1 | 27 | 302 | 6.456 | 34.304 | 2 | 9.88 | 2 | 43.2 | 5.3 | 2 | 10632 |
| 1 | 25 | 399 | 6.231 | 34.302 | 2 | 10.38 | 2 | 30.6 | 3.2 | 2 | 10604 |
| 1 | 23 | 499 | 6.003 | 34.295 | 2 | 11.45 | 2 | 26.2 | 4.0 | 2 | 10448 |
| 1 | 21 | 603 | 5.699 | 34.278 | 2 | 12.68 | 2 | 16.5 | 4.7 | 2 | 10629 |
| 1 | 19 | 699 | 5.339 | 34.266 | 2 | 15.21 | 2 | 17.2 | 5.1 | 2 | 10626 |
| 1 | 18 | 806 | 4.901 | 34.265 | 2 | 21.03 | 2 | -35.4 | 4.3 | 6 | 10445 |
| | | | | | | | | | | | 10605 |
| 1 | 17 | 900 | 4.521 | 34.279 | 2 | 27.10 | 2 | -62.4 | 4.1 | 2 | 10607 |
| 1 | 16 | 1002 | 4.052 | 34.300 | 2 | 34.23 | 2 | -63.6 | 3.0 | 2 | 10449 |
| 1 | 15 | 1099 | 3.648 | 34.326 | 2 | 40.93 | 2 | -93.6 | 4.8 | 2 | 10628 |
| 1 | 14 | 1198 | 3.372 | 34.363 | 2 | 48.21 | 2 | -66.5 | 5.1 | 3 | 10608 |
| 1 | 12 | 1599 | 2.703 | 34.534 | 2 | 78.96 | 2 | -104.5 | 4.7 | 3 | 10609 |
| 1 | 10 | 2001 | 2.293 | 34.640 | 2 | 89.46 | 2 | -162.2 | 3.3 | 2 | 10450 |
| 1 | 8 | 2501 | 1.913 | 34.694 | 2 | 103.24 | 2 | -180.1 | 3.6 | 2 | 10606 |
| 1 | 6 | 2993 | 1.651 | 34.705 | 2 | 113.02 | 2 | -171.5 | 4.2 | 2 | 10627 |
| 1 | 2 | 3752 | 1.145 | 34.707 | 2 | 123.61 | 2 | -160.0 | 5.2 | 2 | 10625 |
| 1 | 1 | 3972 | 0.950 | 34.707 | 2 | 128.89 | 2 | -163.6 | 2.8 | 2 | 10603 |

Station 53

| | | Latitude | | 43.003°S | | Date | | 3/14/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.998°W | | Bottom Depth | | 3827 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 13.601 | 34.056 | 2 | 0.86 | 2 | -156.8 | 4.2 | 4 | 10613 |
| 1 | 35 | 26 | 13.429 | 34.058 | 2 | 0.84 | 2 | 61.4 | 3.4 | 2 | 10899 |
| 1 | 33 | 75 | 10.161 | 34.053 | 2 | 0.78 | 2 | 58.7 | 3.7 | 2 | 10900 |
| 1 | 32 | 101 | 8.829 | 34.099 | 2 | 1.11 | 6 | 60.2 | 4.8 | 2 | 10622 |
| 1 | 31 | 123 | 8.238 | 34.147 | 2 | 1.64 | 2 | 61.1 | 5.4 | 2 | 10618 |
| 1 | 30 | 149 | 7.846 | 34.178 | 2 | 2.02 | 2 | 39.4 | 4.8 | 2 | 10895 |
| 1 | 29 | 198 | 6.988 | 34.254 | 2 | 3.66 | 2 | 39.2 | 6.8 | 2 | 10614 |
| 1 | 28 | 250 | 6.692 | 34.298 | 2 | 5.23 | 2 | 52.6 | 9.0 | 2 | 10616 |
| 1 | 27 | 300 | 6.556 | 34.313 | 2 | 6.21 | 2 | 43.1 | 5.1 | 2 | 10623 |
| 1 | 26 | 349 | 6.439 | 34.313 | 2 | 6.59 | 2 | -156.9 | 4.6 | 4 | 10610 |
| 1 | 25 | 402 | 6.338 | 34.316 | 2 | 7.05 | 2 | 32.9 | 5.3 | 2 | 10617 |
| 1 | 23 | 501 | 6.076 | 34.305 | 2 | 7.91 | 2 | 35.7 | 5.0 | 2 | 10624 |
| 1 | 21 | 595 | 5.777 | 34.286 | 2 | 9.29 | 2 | 10.1 | 3.2 | 2 | 14751 |
| 1 | 19 | 699 | 5.391 | 34.270 | 2 | 12.50 | 2 | -10.1 | 3.1 | 2 | 10901 |

Station 53

| | | Latitude | | 43.003°S | | | | Date | | 3/14/94 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 102.998°W | | | | Bottom Depth | | 3827 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 18 | 799 | 4.958 | 34.267 | 2 | 17.53 | 2 | -35.2 | 4.7 | 2 | 10619 |
| 1 | 17 | 901 | 4.542 | 34.280 | 2 | 23.76 | 2 | -60.9 | 3.9 | 2 | 10904 |
| 1 | 16 | 999 | 4.133 | 34.300 | 2 | 30.41 | 2 | -78.0 | 3.0 | 2 | 10897 |
| 1 | 15 | 1201 | 3.424 | 34.380 | 2 | 49.45 | 2 | -130.4 | 4.3 | 2 | 10903 |
| 1 | 14 | 1399 | 3.034 | 34.470 | 2 | 67.58 | 6 | 15.1 | 5.0 | 4 | 10612 |
| 1 | 12 | 1801 | 2.452 | 34.595 | 2 | 86.21 | 2 | -172.7 | 2.9 | 2 | 10894 |
| 1 | 11 | 2000 | 2.274 | 34.642 | 2 | 90.58 | 2 | -169.2 | 4.4 | 2 | 10621 |
| 1 | 10 | 2249 | 2.077 | 34.683 | 2 | 96.03 | 2 | -185.0 | 3.9 | 2 | 10906 |
| 1 | 9 | 2500 | 1.882 | 34.695 | 2 | 105.22 | 6 | -183.7 | 7.1 | 2 | 10615 |
| 1 | 7 | 2997 | 1.655 | 34.704 | 2 | 113.46 | 2 | -185.4 | 2.9 | 2 | 10898 |
| 1 | 6 | 3246 | 1.527 | 34.707 | 2 | 116.00 | 2 | -183.5 | 3.2 | 2 | 10902 |
| 1 | 5 | 3499 | 1.299 | 34.707 | 2 | 120.52 | 2 | -184.2 | 2.9 | 2 | 10896 |
| 1 | 2 | 3751 | 1.174 | 34.708 | 2 | 124.72 | 6 | -169.7 | 4.2 | 2 | 10620 |
| 1 | 1 | 3863 | 1.086 | 34.709 | 2 | 127.17 | 2 | -182.0 | 2.9 | 2 | 10905 |

Station 59

| | | Latitude | | 40.003°S | | | | Date | | 3/15/94 | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 102.980°W | | | | Bottom Depth | | 4053 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 11 | 15.733 | 33.998 | 2 | 2.15 | 2 | 72.6 | 4.0 | 2 | 10914 |
| 1 | 35 | 24 | 15.603 | 34.003 | 2 | 2.30 | 2 | 73.6 | 3.4 | 2 | 10907 |
| 1 | 34 | 48 | 13.021 | 34.001 | 2 | 2.37 | 2 | 85.7 | 3.6 | 2 | 10911 |
| 1 | 33 | 69 | 11.729 | 33.999 | 2 | 2.70 | 2 | 79.0 | 3.4 | 2 | 10908 |
| 1 | 32 | 97 | 10.967 | 34.115 | 3 | 2.80 | 2 | 88.0 | 3.5 | 2 | 10924 |
| 1 | 30 | 148 | 9.526 | 34.233 | 2 | 3.63 | 2 | 67.5 | 3.4 | 2 | 10912 |
| 1 | 29 | 198 | 8.107 | 34.279 | 2 | 5.35 | 2 | 47.3 | 4.3 | 2 | 11101 |
| 1 | 27 | 297 | 6.832 | 34.317 | 2 | 8.07 | 2 | 36.8 | 3.4 | 2 | 10922 |
| 1 | 25 | 398 | 6.453 | 34.330 | 2 | 9.80 | 2 | 17.0 | 3.3 | 2 | 10913 |
| 1 | 23 | 494 | 6.159 | 34.315 | 2 | 10.81 | 2 | 20.2 | 4.4 | 2 | 10920 |
| 1 | 21 | 598 | 5.825 | 34.295 | 2 | 12.63 | 2 | 3.6 | 3.4 | 2 | 10919 |
| 1 | 19 | 698 | 5.421 | 34.274 | 2 | 15.74 | 2 | -8.4 | 3.2 | 2 | 10916 |
| 1 | 18 | 796 | 5.063 | 34.272 | 2 | 20.36 | 2 | -38.3 | 3.2 | 2 | 10917 |
| 1 | 17 | 896 | 4.621 | 34.280 | 2 | 27.19 | 2 | -69.9 | 4.1 | 2 | 11102 |
| 1 | 16 | 997 | 4.139 | 34.308 | 2 | 37.75 | 2 | -84.4 | 3.3 | 2 | 10925 |
| 1 | 14 | 1201 | 3.465 | 34.404 | 2 | 58.75 | 2 | -142.8 | 3.5 | 2 | 10923 |
| 1 | 11 | 1596 | 2.764 | 34.552 | 2 | 90.32 | 2 | -185.4 | 3.0 | 2 | 10915 |
| 1 | 10 | 1998 | 2.262 | 34.627 | 2 | 101.04 | 2 | -187.6 | 3.5 | 2 | 11100 |
| 1 | 8 | 2498 | 1.894 | 34.683 | 2 | 111.74 | 2 | -194.2 | 4.6 | 2 | 10909 |
| 1 | 6 | 3002 | 1.748 | 34.697 | 2 | 117.11 | 2 | -187.7 | 4.2 | 2 | 10910 |

Station 59

| | | Latitude | | 40.003°S | | Date | | 3/15/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 102.980°W | | Bottom Depth | | 4053 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 4 | 3501 | 1.417 | 34.706 | 2 | 121.31 | 2 | -184.4 | 5.7 | 2 | 10918 |
| 1 | 2 | 3727 | 1.198 | 34.706 | 2 | 128.37 | 2 | -180.8 | 3.5 | 2 | 10921 |

Station 67

| | | Latitude | | 35.994°S | | Date | | 3/17/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 102.992°W | | Bottom Depth | | 3700 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 22 | 50 | 16.316 | -9 | 5 | -9 | 1 | 114.6 | 3.7 | 2 | 11112 |
| 1 | 20 | 99 | 13.151 | 34.049 | 2 | 1.05 | 2 | 94.4 | 4.0 | 2 | 11115 |
| 1 | 19 | 200 | 10.117 | 34.319 | 2 | 2.10 | 2 | 87.0 | 8.1 | 2 | 11107 |
| 1 | 18 | 300 | 7.742 | 34.320 | 2 | 4.77 | 2 | 41.6 | 3.2 | 2 | 11116 |
| 1 | 17 | 402 | 6.658 | 34.333 | 2 | 7.08 | 2 | 34.4 | 3.7 | 2 | 11108 |
| 1 | 16 | 494 | 6.231 | 34.322 | 3 | 7.94 | 2 | 12.3 | 6.0 | 2 | 14718 |
| 1 | 14 | 697 | 5.444 | 34.274 | 2 | 11.46 | 2 | -10.2 | 3.6 | 2 | 11105 |
| 1 | 13 | 798 | 5.076 | 34.267 | 2 | 15.21 | 2 | -49.0 | 3.1 | 2 | 11117 |
| 1 | 12 | 887 | 4.648 | 34.272 | 2 | 21.53 | 2 | -65.5 | 4.7 | 2 | 11111 |
| 1 | 11 | 991 | 4.203 | 34.301 | 2 | 30.82 | 2 | -99.5 | 3.4 | 2 | 11104 |
| 1 | 10 | 1200 | 3.484 | 34.405 | 2 | 55.15 | 2 | -145.9 | 4.9 | 2 | 11109 |
| 1 | 8 | 1697 | 2.575 | 34.580 | 2 | 89.77 | 2 | -193.8 | 3.9 | 2 | 11113 |
| 1 | 7 | 2000 | 2.220 | 34.631 | 2 | 97.82 | 2 | -205.2 | 5.0 | 2 | 11114 |
| 1 | 6 | 2295 | 1.942 | 34.669 | 2 | 109.16 | 2 | -201.5 | 6.3 | 2 | 11103 |
| 1 | 5 | 2599 | 1.805 | 34.679 | 2 | 114.88 | 2 | -205.5 | 3.4 | 2 | 11106 |
| 1 | 4 | 2897 | 1.744 | 34.685 | 2 | 115.30 | 2 | -207.4 | 2.4 | 2 | 11118 |
| 1 | 2 | 3396 | 1.629 | 34.694 | 2 | 115.44 | 2 | -185.6 | 6.1 | 2 | 14755 |
| 1 | 1 | 3648 | 1.541 | 34.698 | 2 | 118.15 | 2 | -193.6 | 3.0 | 2 | 11110 |

Station 71

| | | Latitude | | 34.007°S | | Date | | 3/18/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 3667 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 10 | 20.943 | 34.303 | 2 | 3.26 | 2 | 116.1 | 3.7 | 2 | 11320 |
| 1 | 35 | 23 | 20.880 | 34.283 | 2 | 3.13 | 2 | 115.2 | 3.4 | 2 | 14719 |
| 1 | 34 | 49 | 18.438 | 34.270 | 2 | 2.95 | 2 | 122.9 | 4.4 | 2 | 11128 |
| 1 | 33 | 73 | 15.149 | 34.178 | 2 | 2.64 | 2 | 120.7 | 2.9 | 2 | 11125 |
| 1 | 32 | 103 | 14.297 | 34.227 | 2 | 2.47 | 2 | 100.2 | 3.8 | 2 | 11319 |
| 1 | 30 | 147 | 12.910 | 34.162 | 2 | 2.51 | 2 | 94.3 | 4.6 | 2 | 11322 |
| 1 | 29 | 198 | 12.379 | 34.511 | 2 | 3.06 | 2 | 108.8 | 4.5 | 2 | 11127 |

Station 71

| | | Latitude | | 34.007°S | | Date | | 3/18/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.002°W | | Bottom Depth | | 3667 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 27 | 298 | 9.059 | 34.364 | 2 | 4.93 | 2 | 69.1 | 3.7 | 2 | 11130 |
| 1 | 25 | 402 | 6.957 | 34.335 | 2 | 7.54 | 2 | 28.1 | 4.0 | 2 | 11126 |
| 1 | 23 | 502 | 6.318 | 34.326 | 2 | 9.21 | 2 | 1.5 | 4.4 | 2 | 11122 |
| 1 | 21 | 599 | 5.889 | 34.297 | 2 | 10.48 | 2 | -1.7 | 3.9 | 2 | 11120 |
| 1 | 19 | 699 | 5.522 | 34.277 | 2 | 12.23 | 2 | -20.5 | 4.0 | 2 | 11123 |
| | | | | | | | | | | | 11133 |
| 1 | 18 | 800 | 5.040 | 34.265 | 2 | 16.71 | 2 | -51.8 | 3.4 | 2 | 11124 |
| 1 | 17 | 897 | 4.584 | 34.272 | 2 | 23.77 | 2 | -80.0 | 4.3 | 2 | 11321 |
| 1 | 16 | 995 | 4.115 | 34.306 | 2 | 34.21 | 2 | -108.6 | 3.1 | 2 | 11317 |
| 1 | 15 | 1100 | 3.727 | 34.357 | 2 | 47.52 | 2 | -121.7 | 4.0 | 2 | 11121 |
| 1 | 14 | 1197 | 3.486 | 34.419 | 2 | 60.93 | 2 | -153.9 | 4.1 | 2 | 11318 |
| 1 | 12 | 1600 | 2.743 | 34.564 | 2 | 94.98 | 2 | -182.4 | 6.0 | 2 | 11134 |
| 1 | 10 | 1998 | 2.172 | 34.634 | 2 | 106.69 | 2 | -196.9 | 2.8 | 2 | 11324 |
| 1 | 8 | 2498 | 1.814 | 34.679 | 2 | 116.99 | 2 | -186.0 | 5.6 | 2 | 11131 |
| 1 | 6 | 2995 | 1.743 | 34.686 | 2 | 121.93 | 2 | -181.6 | 4.3 | 2 | 11132 |
| 1 | 2 | 3495 | 1.774 | 34.688 | 2 | 118.36 | 2 | -203.5 | 3.4 | 2 | 11323 |

Station 77

| | | Latitude | | 31.000°S | | Date | | 3/20/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.350°W | | Bottom Depth | | 3504 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 11 | 23.136 | 35.479 | 2 | 1.58 | 2 | 133.5 | 5.6 | 2 | 13958 |
| 1 | 35 | 26 | 23.141 | 35.486 | 2 | 1.61 | 2 | 135.6 | 6.0 | 2 | 13948 |
| 1 | 33 | 75 | 19.757 | 35.354 | 2 | 1.60 | 2 | 116.0 | 4.8 | 2 | 13978 |
| 1 | 32 | 96 | 19.101 | 35.300 | 2 | 1.55 | 2 | 133.3 | 5.4 | 2 | 13950 |
| 1 | 31 | 128 | 17.977 | 35.098 | 2 | 1.46 | 2 | 136.7 | 3.6 | 2 | 13943 |
| 1 | 30 | 152 | 17.246 | 34.982 | 2 | 1.41 | 2 | 127.5 | 3.8 | 2 | 13960 |
| 1 | 29 | 202 | 16.192 | 34.932 | 2 | 1.64 | 2 | 122.1 | 6.4 | 2 | 13945 |
| 1 | 28 | 252 | 14.230 | 34.751 | 2 | 1.96 | 2 | 107.8 | 5.0 | 2 | 14121 |
| 1 | 27 | 300 | 12.197 | 34.575 | 2 | 2.68 | 2 | 108.2 | 3.9 | 2 | 13971 |
| 1 | 26 | 350 | 10.303 | 34.446 | 2 | 3.75 | 2 | 75.6 | 4.6 | 2 | 13981 |
| 1 | 25 | 401 | 8.429 | 34.356 | 2 | 6.43 | 2 | 15.3 | 5.6 | 2 | 13951 |
| 1 | 23 | 501 | 6.684 | 34.327 | 2 | 9.64 | 2 | -2.5 | 4.0 | 2 | 14120 |
| 1 | 21 | 600 | 5.944 | 34.299 | 2 | 10.58 | 2 | -7.3 | 4.4 | 2 | 13940 |
| 1 | 19 | 701 | 5.495 | 34.276 | 2 | 12.90 | 2 | -21.7 | 3.4 | 2 | 13970 |
| 1 | 18 | 802 | 4.999 | 34.265 | 2 | 18.29 | 2 | -48.7 | 3.6 | 2 | 13968 |
| 1 | 17 | 904 | 4.557 | 34.285 | 2 | 27.20 | 2 | -91.1 | 4.0 | 2 | 14122 |
| 1 | 16 | 999 | 4.120 | 34.329 | 2 | 37.61 | 2 | -112.2 | 4.2 | 2 | 13959 |
| 1 | 14 | 1198 | 3.603 | 34.456 | 2 | 68.09 | 2 | -158.8 | 3.9 | 2 | 13979 |

Station 77

| | | Latitude | | 31.000°S | | | | Date | | 3/20/94 | | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|---------|-------|--|
| | | Longitude | | 103.350°W | | | | Bottom Depth | | 3504 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 13 | 1298 | 3.418 | 34.497 | 2 | 77.13 | 2 | -177.5 | 6.6 | 2 | 13961 | |
| 1 | 12 | 1399 | 3.136 | 34.526 | 2 | 83.82 | 2 | -189.8 | 4.0 | 2 | 13941 | |
| 1 | 11 | 1502 | 2.891 | 34.545 | 2 | 87.54 | 2 | -185.9 | 4.4 | 2 | 13969 | |
| 1 | 10 | 1602 | 2.670 | 34.567 | 2 | 93.07 | 2 | -180.1 | 4.5 | 2 | 13947 | |
| 1 | 9 | 1799 | 2.346 | 34.607 | 2 | 101.59 | 2 | -192.2 | 4.7 | 2 | 13949 | |
| 1 | 7 | 2254 | 1.898 | 34.663 | 2 | 115.38 | 2 | -192.6 | 3.1 | 2 | 13944 | |
| 1 | 6 | 2502 | 1.817 | 34.675 | 2 | 116.95 | 2 | -201.9 | 3.2 | 2 | 13973 | |
| 1 | 5 | 2750 | 1.779 | 34.681 | 2 | 118.99 | 2 | -200.2 | 4.4 | 2 | 13962 | |
| 1 | 4 | 2999 | 1.777 | -9 | 9 | -9 | 1 | -208.0 | 4.3 | 2 | 13972 | |
| 1 | 2 | 3246 | 1.787 | 34.687 | 2 | 121.02 | 2 | -200.3 | 3.2 | 2 | 13939 | |
| 1 | 1 | 3478 | 1.798 | 34.688 | 2 | 121.34 | 2 | -215.4 | 4.3 | 2 | 13952 | |

Station 83

| | | Latitude | | 28.000°S | | | | Date | | 3/22/94 | | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|---------|-------|--|
| | | Longitude | | 103.000°W | | | | Bottom Depth | | 3089 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 36 | 10 | 23.713 | 35.788 | 2 | 1.36 | 2 | 135.4 | 4.9 | 2 | 11347 | |
| 1 | 35 | 25 | 23.732 | 35.788 | 2 | 1.23 | 2 | 131.3 | 3.8 | 2 | 11328 | |
| 1 | 34 | 51 | 23.253 | 35.794 | 2 | 1.16 | 2 | 123.0 | 3.6 | 2 | 11325 | |
| 1 | 33 | 75 | 20.569 | 35.520 | 2 | 1.54 | 2 | 135.8 | 4.3 | 2 | 11331 | |
| 1 | 30 | 151 | 19.248 | 35.448 | 2 | 1.12 | 2 | 135.8 | 4.5 | 2 | 11339 | |
| 1 | 28 | 203 | 18.007 | 35.221 | 2 | 1.11 | 2 | 128.8 | 4.4 | 6 | 11341 | |
| | | | | | | | | | | | 11344 | |
| 1 | 25 | 299 | 14.003 | -9 | 5 | 1.93 | 2 | 114.6 | 4.5 | 2 | 11337 | |
| 1 | 23 | 398 | 9.335 | 34.382 | 2 | 5.62 | 2 | 50.4 | 4.3 | 2 | 11343 | |
| 1 | 22 | 502 | 6.887 | 34.342 | 2 | 12.14 | 2 | 2.5 | 3.5 | 2 | 11342 | |
| 1 | 21 | 603 | 6.053 | 34.316 | 2 | 13.38 | 2 | -25.0 | 3.4 | 2 | 11329 | |
| 1 | 20 | 703 | 5.403 | 34.278 | 2 | 14.27 | 2 | -39.2 | 3.3 | 2 | 11346 | |
| 1 | 19 | 802 | 5.052 | 34.293 | 2 | 21.01 | 2 | -66.2 | 3.3 | 2 | 11336 | |
| 1 | 18 | 902 | 4.637 | 34.322 | 2 | 30.91 | 2 | -103.1 | 3.0 | 2 | 11345 | |
| 1 | 17 | 996 | 4.221 | 34.380 | 3 | 45.24 | 2 | -125.2 | 2.9 | 2 | 11334 | |
| 1 | 16 | 1100 | 3.831 | 34.432 | 2 | 60.27 | 2 | -156.7 | 3.0 | 2 | 11330 | |
| 1 | 15 | 1201 | 3.549 | 34.488 | 2 | 73.79 | 2 | -182.6 | 3.3 | 2 | 11338 | |
| 1 | 11 | 1601 | 2.510 | 34.579 | 2 | 92.50 | 2 | -192.6 | 3.1 | 2 | 11335 | |
| 1 | 8 | 2002 | 2.038 | 34.639 | 2 | 112.29 | 2 | -194.9 | 7.4 | 2 | 11327 | |
| 1 | 6 | 2498 | 1.859 | 34.663 | 2 | 120.61 | 2 | -212.0 | 2.9 | 2 | 11326 | |
| 1 | 4 | 3000 | 1.847 | 34.674 | 2 | 118.01 | 2 | -207.3 | 4.5 | 2 | 11333 | |
| 1 | 2 | 3245 | 1.845 | 34.679 | 2 | 116.29 | 2 | -204.0 | 4.0 | 2 | 11332 | |
| 1 | 1 | 3382 | 1.854 | 34.680 | 2 | 115.84 | 2 | -201.0 | 3.1 | 2 | 11340 | |

Station 89

| | | Latitude | | 24.988°S | | Date | | 3/29/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.001°W | | Bottom Depth | | 3833 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 10 | 24.461 | 36.018 | 2 | 1.35 | 2 | 117.9 | 5.8 | 2 | 14114 |
| 1 | 35 | 24 | 24.472 | 36.018 | 2 | 1.44 | 2 | 137.3 | 3.3 | 2 | 14708 |
| 1 | 34 | 50 | 24.319 | 36.006 | 2 | 1.38 | 2 | 130.3 | 3.5 | 2 | 14704 |
| 1 | 33 | 75 | 21.437 | 35.671 | 2 | 1.38 | 2 | 122.5 | 4.4 | 2 | 14124 |
| 1 | 32 | 101 | 20.654 | 35.671 | 2 | 1.29 | 2 | 143.5 | 6.5 | 2 | 14714 |
| 1 | 31 | 125 | 20.323 | 35.675 | 2 | 1.44 | 2 | 136.0 | 4.2 | 2 | 14749 |
| 1 | 30 | 150 | 19.825 | 35.589 | 2 | 1.37 | 2 | 134.6 | 5.7 | 2 | 14712 |
| 1 | 26 | 350 | 11.217 | 34.481 | 2 | 4.38 | 2 | 88.8 | 3.4 | 2 | 14715 |
| 1 | 25 | 398 | 9.314 | 34.385 | 2 | 7.86 | 2 | 45.2 | 3.5 | 2 | 14747 |
| 1 | 23 | 502 | 6.833 | 34.346 | 2 | 13.14 | 2 | -11.2 | 3.1 | 2 | 14702 |
| 1 | 21 | 698 | 5.256 | 34.292 | 2 | 19.42 | 2 | -55.2 | 4.9 | 2 | 14116 |
| 1 | 20 | 799 | 4.847 | 34.337 | 2 | 32.87 | 2 | -101.1 | 3.0 | 2 | 14703 |
| 1 | 19 | 901 | 4.443 | 34.385 | 2 | 45.79 | 2 | -144.7 | 8.8 | 2 | 13953 |
| 1 | 18 | 1001 | 4.068 | 34.438 | 2 | 59.81 | 2 | -156.0 | 3.7 | 2 | 14705 |
| 1 | 17 | 1101 | 3.783 | 34.474 | 2 | 68.96 | 2 | -162.0 | 2.9 | 2 | 14707 |
| 1 | 16 | 1202 | 3.487 | 34.512 | 2 | 77.91 | 2 | -182.3 | 3.0 | 2 | 14713 |
| 1 | 15 | 1298 | 3.246 | 34.532 | 2 | 83.74 | 2 | -200.5 | 3.3 | 2 | 14113 |
| 1 | 14 | 1400 | 2.975 | 34.553 | 2 | 89.89 | 2 | -189.3 | 2.7 | 2 | 14709 |
| 1 | 13 | 1500 | 2.757 | 34.569 | 2 | 95.20 | 2 | -191.2 | 3.3 | 2 | 14700 |
| 1 | 12 | 1600 | 2.590 | 34.585 | 2 | 100.05 | 2 | -201.0 | 2.6 | 2 | 14699 |
| 1 | 11 | 1800 | 2.265 | 34.616 | 2 | 108.70 | 2 | -202.1 | 6.0 | 2 | 15332 |
| 1 | 10 | 2002 | 2.082 | 34.636 | 2 | 114.83 | 2 | -206.0 | 2.8 | 2 | 14717 |
| 1 | 9 | 2248 | 1.936 | 34.655 | 2 | 118.90 | 2 | -218.3 | 3.9 | 2 | 14115 |
| 1 | 8 | 2500 | 1.872 | 34.665 | 2 | 120.28 | 2 | -215.6 | 2.9 | 2 | 14117 |
| 1 | 7 | 2746 | 1.838 | 34.671 | 2 | 122.33 | 2 | -210.0 | 2.7 | 2 | 14706 |
| 1 | 6 | 2999 | 1.813 | 34.678 | 2 | 125.69 | 2 | -216.8 | 2.8 | 2 | 14711 |
| 1 | 5 | 3252 | 1.808 | 34.682 | 2 | 127.80 | 2 | -224.8 | 3.8 | 2 | 14710 |
| 1 | 4 | 3498 | 1.827 | 34.683 | 2 | 129.16 | 2 | -209.3 | 3.0 | 2 | 14701 |
| 1 | 2 | 3751 | 1.848 | 34.684 | 2 | 131.61 | 2 | -219.9 | 2.8 | 2 | 14748 |
| 1 | 1 | 3860 | 1.858 | 34.685 | 2 | 131.31 | 2 | -212.2 | 3.1 | 2 | 14716 |

Station 101

| | | Latitude | | 19.000°S | | Date | | 4/1/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.992°W | | Bottom Depth | | 4085 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 35 | 24 | 24.253 | 36.335 | 2 | 1.01 | 2 | 118.4 | 3.0 | 2 | 11675 |
| 3 | 34 | 50 | 24.133 | 36.393 | 2 | 1.02 | 2 | 94.0 | 3.2 | 2 | 11519 |
| 3 | 33 | 75 | 23.724 | 36.425 | 3 | 1.06 | 2 | 97.5 | 3.7 | 2 | 11502 |
| 3 | 32 | 100 | 22.409 | 36.233 | 2 | 0.96 | 2 | 103.7 | 4.0 | 2 | 11510 |

Station 101

| | | Latitude | | 19.000°S | | Date | | 4/1/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.992°W | | Bottom Depth | | 4085 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 31 | 124 | 21.457 | 36.042 | 2 | 0.91 | 2 | 111.9 | 4.0 | 2 | 11509 |
| 3 | 30 | 150 | 20.573 | 35.829 | 2 | 0.68 | 2 | 127.2 | 3.2 | 2 | 11676 |
| 3 | 29 | 201 | 19.318 | 35.575 | 2 | 0.92 | 2 | 97.7 | 5.6 | 2 | 11503 |
| 3 | 28 | 246 | 16.087 | 35.020 | 2 | 1.65 | 2 | 100.4 | 5.7 | 2 | 11504 |
| 3 | 27 | 299 | 12.632 | 34.602 | 2 | 5.22 | 2 | 80.6 | 3.6 | 2 | 11513 |
| 3 | 25 | 348 | 10.485 | 34.497 | 2 | 12.57 | 2 | 25.8 | 3.2 | 2 | 11520 |
| 3 | 23 | 500 | 6.743 | 34.395 | 2 | 20.53 | 2 | -78.5 | 5.0 | 2 | 11500 |
| 3 | 22 | 599 | 5.973 | 34.408 | 2 | 29.75 | 2 | -110.1 | 3.4 | 2 | 11508 |
| 3 | 21 | 698 | 5.470 | 34.443 | 2 | 42.61 | 2 | -128.0 | 3.9 | 2 | 11516 |
| 3 | 20 | 800 | 4.987 | 34.476 | 2 | 54.94 | 2 | -142.1 | 3.9 | 2 | 11671 |
| 3 | 19 | 898 | 4.623 | 34.496 | 2 | 64.94 | 2 | -165.9 | 3.1 | 2 | 11514 |
| 3 | 17 | 1099 | 3.995 | 34.533 | 2 | 82.31 | 2 | -196.2 | 4.1 | 2 | 11512 |
| 3 | 16 | 1201 | 3.661 | 34.545 | 2 | 88.49 | 2 | -191.7 | 2.9 | 2 | 11522 |
| 3 | 15 | 1300 | 3.375 | 34.558 | 2 | 94.09 | 2 | -206.1 | 2.9 | 2 | 11515 |
| 3 | 14 | 1400 | 3.137 | 34.559 | 4 | 99.63 | 2 | -218.7 | 3.5 | 2 | 11506 |
| 3 | 13 | 1600 | 2.786 | 34.596 | 2 | 108.83 | 2 | -221.3 | 3.2 | 2 | 11348 |
| 3 | 12 | 1800 | 2.474 | 34.617 | 2 | 115.01 | 2 | -220.9 | 2.8 | 2 | 11517 |
| 3 | 11 | 2001 | 2.231 | 34.635 | 2 | 118.47 | 2 | -223.7 | 2.6 | 2 | 11674 |
| 3 | 10 | 2248 | 2.008 | 34.652 | 2 | 120.40 | 2 | -232.7 | 3.0 | 2 | 11501 |
| 3 | 9 | 2498 | 1.880 | 34.665 | 2 | 121.83 | 2 | -224.1 | 2.9 | 2 | 11521 |
| 3 | 8 | 2742 | 1.818 | 34.674 | 2 | 125.11 | 2 | -225.0 | 3.9 | 2 | 11511 |
| 3 | 7 | 2999 | 1.786 | 34.678 | 2 | 128.42 | 2 | -218.4 | 3.0 | 2 | 11670 |
| 3 | 6 | 3244 | 1.773 | 34.682 | 2 | 129.09 | 2 | -214.9 | 2.4 | 2 | 11673 |
| 3 | 5 | 3500 | 1.774 | 34.684 | 2 | 128.47 | 2 | -209.0 | 2.8 | 2 | 11672 |
| 3 | 4 | 3747 | 1.789 | 34.686 | 2 | 127.85 | 2 | -223.5 | 4.4 | 2 | 11507 |
| 3 | 2 | 4000 | 1.813 | 34.687 | 2 | 128.37 | 2 | -218.2 | 2.9 | 2 | 11518 |
| 3 | 1 | 4142 | 1.829 | 34.686 | 2 | 129.52 | 2 | -222.4 | 3.0 | 2 | 11505 |

Station 105

| | | Latitude | | 16.998°S | | Date | | 4/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.995°W | | Bottom Depth | | 3928 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 10 | 24.470 | 36.283 | 2 | -9 | 1 | 81.3 | 2.9 | 2 | 11679 |
| 1 | 35 | 24 | 24.227 | 36.277 | 2 | 1.73 | 2 | 101.1 | 5.5 | 2 | 11690 |
| 1 | 34 | 51 | 24.128 | 36.303 | 2 | 1.88 | 2 | 88.2 | 4.4 | 2 | 11692 |
| 1 | 33 | 74 | 23.637 | 36.275 | 2 | 2.09 | 2 | 87.6 | 3.4 | 2 | 11682 |
| 1 | 32 | 100 | 22.424 | 36.178 | 2 | 2.04 | 2 | 94.8 | 4.8 | 2 | 11694 |
| 1 | 30 | 148 | 21.155 | 35.981 | 2 | 1.78 | 2 | 115.1 | 3.6 | 2 | 11761 |
| 1 | 29 | 199 | 18.494 | 35.460 | 3 | 1.86 | 2 | 119.2 | 4.2 | 2 | 11689 |

Station 105

| | | Latitude | | 16.998°S | | Date | | 4/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 102.995°W | | Bottom Depth | | 3928 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 27 | 294 | 11.973 | -9 | 5 | -9 | 1 | 65.5 | 4.2 | 2 | 11688 |
| 1 | 25 | 400 | 8.750 | 34.512 | 2 | 22.84 | 2 | -57.6 | 2.8 | 2 | 11680 |
| 1 | 23 | 499 | 7.086 | 34.472 | 2 | 28.12 | 2 | -95.2 | 4.1 | 2 | 11693 |
| 1 | 21 | 699 | 5.548 | 34.476 | 2 | 48.80 | 2 | -134.6 | 4.6 | 2 | 11691 |
| 1 | 19 | 900 | 4.626 | 34.503 | 2 | 69.15 | 2 | -164.6 | 2.6 | 2 | 11681 |
| 1 | 18 | 1001 | 4.216 | 34.521 | 2 | 80.83 | 2 | -177.6 | 3.1 | 2 | 11678 |
| 1 | 16 | 1201 | 3.601 | 34.551 | 2 | 93.87 | 2 | -196.8 | 3.2 | 2 | 11684 |
| 1 | 14 | 1392 | 3.110 | 34.581 | 2 | 104.35 | 2 | -212.8 | 3.0 | 2 | 11685 |
| 1 | 12 | 1598 | 2.721 | 34.605 | 2 | 113.01 | 2 | -222.8 | 3.0 | 2 | 11695 |
| 1 | 11 | 1798 | 2.425 | 34.624 | 2 | 118.02 | 2 | -223.5 | 3.2 | 2 | 11696 |
| 1 | 8 | 2499 | 1.837 | 34.669 | 2 | 120.82 | 2 | -218.2 | 3.1 | 2 | 11687 |
| 1 | 6 | 3000 | 1.793 | 34.679 | 2 | 135.02 | 2 | -226.8 | 2.6 | 2 | 11677 |
| 1 | 4 | 3498 | 1.807 | 34.682 | 2 | 133.52 | 2 | -220.0 | 3.2 | 2 | 11683 |
| 1 | 2 | 3750 | 1.821 | 34.684 | 2 | 128.08 | 2 | -219.9 | 2.7 | 2 | 11760 |

Station 113

| | | Latitude | | 13.001°S | | Date | | 4/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 103.008°W | | Bottom Depth | | 4252 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 10 | 25.591 | 35.992 | 2 | 6.40 | 2 | 97.1 | 4.4 | 2 | 11789 |
| 1 | 36 | 10 | 25.590 | 35.991 | 2 | 3.43 | 2 | 65.5 | 7.2 | 2 | 11777 |
| 1 | 34 | 25 | 25.595 | 35.997 | 2 | 7.33 | 2 | 63.0 | 3.8 | 2 | 11788 |
| 1 | 33 | 50 | 24.099 | 36.187 | 2 | 7.90 | 2 | 84.0 | 5.6 | 2 | 11769 |
| 1 | 32 | 78 | 22.692 | 36.285 | 2 | 8.44 | 2 | 100.9 | 5.6 | 2 | 11787 |
| 1 | 31 | 98 | 22.145 | 36.182 | 2 | 7.76 | 2 | 117.7 | 4.5 | 2 | 11778 |
| 1 | 30 | 124 | 20.997 | 35.964 | 2 | 6.90 | 2 | 92.0 | 5.1 | 2 | 11879 |
| 1 | 29 | 149 | 19.328 | 35.634 | 2 | 7.87 | 2 | 106.3 | 4.2 | 2 | 11765 |
| 1 | 28 | 199 | 15.469 | 35.043 | 2 | 12.90 | 2 | 90.3 | 4.5 | 2 | 11780 |
| 1 | 27 | 237 | 12.831 | 34.781 | 2 | 23.12 | 2 | 32.4 | 6.5 | 2 | 11880 |
| 1 | 26 | 300 | 10.603 | 35.043 | 4 | 30.80 | 2 | -47.0 | 3.8 | 2 | 11783 |
| 1 | 25 | 351 | 9.529 | 34.675 | 2 | 33.69 | 2 | -72.4 | 4.2 | 2 | 11784 |
| 1 | 23 | 496 | 7.852 | 34.599 | 2 | 41.94 | 2 | -94.2 | 5.8 | 6 | 11762 |
| | | | | | | | | | | | 11772 |
| 1 | 22 | 602 | 6.989 | 34.557 | 2 | 47.34 | 2 | -109.5 | 3.7 | 2 | 11767 |
| 1 | 21 | 703 | 6.182 | 34.525 | 2 | 54.06 | 2 | -120.6 | 4.1 | 2 | 11781 |
| 1 | 20 | 795 | 5.539 | 34.514 | 2 | 61.90 | 2 | -132.6 | 4.8 | 2 | 11773 |
| 1 | 19 | 896 | 4.928 | 34.515 | 2 | 70.68 | 2 | -151.9 | 3.5 | 2 | 11775 |
| 1 | 17 | 1101 | 4.055 | 34.540 | 2 | 87.48 | 2 | -181.0 | 4.0 | 2 | 11782 |
| 1 | 16 | 1199 | 3.708 | 34.554 | 2 | 94.14 | 2 | -201.5 | 6.9 | 2 | 11790 |

Station 113

| | | Latitude | | 13.001°S | | Date | | 4/5/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 103.008°W | | Bottom Depth | | 4252 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 15 | 1300 | 3.404 | -9 | 5 | 102.78 | 2 | -195.2 | 3.5 | 2 | 11779 |
| 1 | 13 | 1600 | 2.766 | 34.603 | 2 | 116.96 | 2 | -217.7 | 5.0 | 2 | 11763 |
| 1 | 12 | 1801 | 2.447 | 34.623 | 2 | 124.27 | 2 | -210.6 | 4.4 | 2 | 11786 |
| 1 | 11 | 1999 | 2.233 | 34.636 | 2 | 126.64 | 2 | -218.3 | 3.2 | 2 | 12747 |
| 1 | 10 | 2251 | 1.991 | 34.656 | 2 | 129.19 | 2 | -229.5 | 3.8 | 2 | 11768 |
| 1 | 9 | 2499 | 1.850 | 34.667 | 2 | 129.37 | 2 | -216.6 | 3.2 | 2 | 11785 |
| 1 | 8 | 2748 | 1.792 | 34.673 | 2 | 133.99 | 2 | -219.5 | 3.1 | 2 | 11764 |
| 1 | 7 | 2998 | 1.775 | 34.675 | 2 | 141.33 | 2 | -207.2 | 3.3 | 2 | 11776 |
| 1 | 5 | 3499 | 1.771 | 34.674 | 2 | 148.82 | 2 | -214.2 | 3.4 | 2 | 11774 |
| 1 | 3 | 3748 | 1.786 | 34.675 | 2 | 145.87 | 2 | -222.5 | 3.3 | 2 | 11770 |
| 1 | 2 | 4000 | 1.808 | 34.675 | 2 | 145.72 | 2 | -221.1 | 4.0 | 2 | 11766 |
| 1 | 1 | 4345 | 1.846 | 34.675 | 2 | 145.43 | 2 | -228.2 | 2.9 | 2 | 12746 |

Station 117

| | | Latitude | | 11.000°S | | Date | | 4/6/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 103.013°W | | Bottom Depth | | 4248 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 10 | 26.595 | 35.512 | 2 | 2.16 | 2 | 59.8 | 5.6 | 2 | 11887 |
| 1 | 35 | 25 | 26.604 | 35.511 | 2 | 2.18 | 2 | 75.8 | 3.5 | 2 | 11892 |
| 1 | 34 | 48 | 25.923 | 35.730 | 2 | 1.70 | 2 | 79.1 | 7.0 | 2 | 12371 |
| 1 | 33 | 74 | 22.769 | 36.028 | 2 | 1.49 | 2 | 82.7 | 3.4 | 2 | 12366 |
| 1 | 32 | 99 | 20.832 | 35.904 | 2 | 1.44 | 2 | 98.8 | 3.5 | 2 | 11889 |
| 1 | 30 | 150 | 15.808 | 35.079 | 2 | 5.68 | 2 | 94.1 | 3.3 | 2 | 12364 |
| 1 | 25 | 401 | 9.080 | 34.685 | 2 | 34.07 | 2 | -71.5 | 4.0 | 2 | 11890 |
| 1 | 23 | 501 | 8.114 | 34.629 | 2 | 38.28 | 2 | -87.5 | 4.5 | 2 | 11894 |
| 1 | 21 | 699 | 6.234 | 34.548 | 2 | 52.26 | 2 | -133.4 | 3.6 | 2 | 11886 |
| 1 | 19 | 902 | 4.967 | 34.531 | 2 | 71.38 | 2 | -156.1 | 2.8 | 2 | 12365 |
| 1 | 18 | 1000 | 4.496 | -9 | 9 | -9 | 1 | -167.0 | 7.2 | 2 | 11882 |
| 1 | 16 | 1199 | 3.787 | 34.558 | 2 | 93.59 | 2 | -183.6 | 4.4 | 2 | 11883 |
| 1 | 14 | 1400 | 3.251 | 34.582 | 2 | 105.95 | 2 | -206.8 | 2.9 | 2 | 12368 |
| 1 | 13 | 1601 | 2.778 | 34.604 | 2 | 113.69 | 2 | -223.7 | 3.7 | 2 | 12391 |
| 1 | 11 | 2000 | 2.266 | 34.638 | 2 | 128.33 | 2 | -225.7 | 2.6 | 2 | 12367 |
| 1 | 9 | 2500 | 1.875 | 35.341 | 4 | 22.27 | 4 | 10.9 | 4.2 | 4 | 12369 |
| 1 | 7 | 2999 | 1.776 | 34.674 | 2 | 140.01 | 2 | -217.2 | 6.8 | 2 | 11884 |
| 1 | 5 | 3496 | 1.772 | 34.675 | 2 | 142.08 | 2 | -207.1 | 2.9 | 2 | 11891 |
| 1 | 2 | 3997 | 1.803 | 34.675 | 2 | 148.99 | 2 | -202.3 | 2.8 | 2 | 11893 |
| 1 | 1 | 4294 | 1.836 | -9 | 9 | 153.62 | 2 | -216.7 | 3.9 | 2 | 11881 |

Station 126

| | | Latitude | | 7.312°S | | Date | | 4/8/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 106.943°W | | Bottom Depth | | 3175 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 7 | 27.658 | 36.818 | 4 | 1.71 | 2 | 62.7 | 3.6 | 2 | 12388 |
| 2 | 34 | 50 | 25.625 | 35.449 | 3 | 3.12 | 2 | 59.1 | 3.4 | 2 | 12390 |
| 2 | 33 | 74 | 21.002 | 35.405 | 2 | 5.50 | 2 | 69.1 | 3.2 | 2 | 12396 |
| 2 | 32 | 99 | 17.928 | 35.334 | 2 | 7.44 | 2 | 66.9 | 8.9 | 2 | 12376 |
| 2 | 31 | 124 | 14.555 | 35.051 | 2 | 16.10 | 2 | 46.6 | 3.4 | 2 | 12397 |
| 2 | 30 | 150 | 13.642 | 34.980 | 2 | 19.51 | 2 | 20.7 | 3.2 | 2 | 12370 |
| 2 | 29 | 175 | 12.906 | 34.936 | 2 | 21.81 | 2 | 3.1 | 3.4 | 2 | 12379 |
| 2 | 28 | 203 | 12.356 | 34.900 | 2 | 24.81 | 2 | -23.1 | 4.2 | 2 | 12373 |
| 2 | 27 | 214 | 12.185 | 34.889 | 2 | 25.14 | 2 | -23.6 | 3.2 | 2 | 12389 |
| 2 | 25 | 300 | 11.169 | 34.820 | 2 | 30.66 | 2 | -46.7 | 3.2 | 2 | 12385 |
| 2 | 23 | 351 | 10.560 | 34.778 | 2 | 34.84 | 2 | -64.8 | 4.7 | 2 | 12377 |
| 2 | 22 | 403 | 9.694 | 34.722 | 2 | 37.46 | 2 | -89.4 | 3.7 | 2 | 12374 |
| 2 | 21 | 500 | 8.076 | 34.628 | 2 | 43.73 | 2 | -100.5 | 3.5 | 2 | 12387 |
| 2 | 20 | 600 | 6.784 | 34.570 | 2 | 52.75 | 2 | -122.7 | 3.0 | 2 | 12403 |
| 2 | 19 | 698 | 5.799 | 34.542 | 2 | 60.47 | 2 | -140.0 | 3.1 | 2 | 12386 |
| 2 | 16 | 1001 | 4.462 | 34.543 | 2 | 81.17 | 2 | -165.4 | 2.9 | 2 | 12381 |
| 2 | 15 | 1098 | 4.170 | 34.550 | 2 | 87.15 | 2 | -180.6 | 2.8 | 2 | 12395 |
| 2 | 14 | 1197 | 3.792 | 34.563 | 2 | 96.61 | 2 | -182.2 | 2.9 | 2 | 12375 |
| 2 | 13 | 1302 | 3.518 | 34.573 | 2 | 103.46 | 2 | -195.9 | 3.1 | 2 | 12378 |
| 2 | 11 | 1500 | 2.970 | 34.598 | 2 | 117.47 | 2 | -215.7 | 2.8 | 2 | 12392 |
| 2 | 10 | 1588 | 2.788 | 34.608 | 2 | 121.81 | 2 | -210.1 | 3.0 | 2 | 12383 |
| 2 | 9 | 1800 | 2.465 | 34.626 | 2 | 130.48 | 2 | -226.4 | 2.7 | 2 | 12372 |
| 2 | 6 | 2400 | 1.935 | 34.661 | 2 | 145.41 | 2 | -225.3 | 2.6 | 2 | 12394 |
| 2 | 4 | 2801 | 1.798 | 34.672 | 2 | 143.76 | 2 | -219.9 | 2.9 | 2 | 12382 |
| 2 | 2 | 3000 | 1.760 | 34.674 | 2 | 145.11 | 2 | -223.8 | 8.1 | 6 | 12380 12384 |
| 2 | 1 | 3190 | 1.772 | 34.674 | 2 | 146.32 | 6 | -226.5 | 2.7 | 2 | 12393 |

Station 134

| | | Latitude | | 4.003°S | | Date | | 4/10/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 110.329°W | | Bottom Depth | | 3841 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 26 | 27.711 | 34.774 | 2 | 3.45 | 2 | 70.3 | 4.0 | 2 | 12744 |
| 1 | 34 | 49 | 17.655 | 35.081 | 2 | 11.21 | 2 | 26.8 | 7.3 | 2 | 12399 |
| 1 | 33 | 76 | 14.380 | 34.996 | 2 | 16.84 | 6 | 15.3 | 5.8 | 2 | 12753 |
| 1 | 31 | 124 | 13.525 | 34.950 | 2 | 19.10 | 2 | 14.3 | 3.3 | 2 | 12405 |
| 1 | 30 | 152 | 13.318 | 34.941 | 2 | 19.49 | 2 | 11.4 | 7.3 | 2 | 12749 |
| 1 | 28 | 198 | 12.847 | 34.906 | 2 | 21.21 | 2 | -11.2 | 3.8 | 2 | 12751 |
| 1 | 25 | 299 | 12.320 | 34.881 | 2 | 25.47 | 2 | -26.8 | 3.8 | 2 | 12748 |

Station 134

| | | Latitude | | 4.003°S | | | | Date | | 4/10/94 | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---------|-------|
| | | Longitude | | 110.329°W | | | | Bottom Depth | | 3841 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 22 | 404 | 9.892 | 34.737 | 2 | 35.80 | 2 | -116.7 | 3.1 | 3 | 12401 |
| 1 | 21 | 501 | 8.348 | 34.649 | 2 | 43.98 | 2 | -107.0 | 2.0 | 6 | 12742 |
| | | | | | | | | | | | 12743 |
| 1 | 20 | 548 | 7.714 | 34.617 | 2 | 47.06 | 6 | -109.1 | 4.2 | 2 | 12750 |
| 1 | 19 | 600 | 7.266 | 34.600 | 2 | 50.78 | 2 | -123.9 | 2.9 | 2 | 12400 |
| 1 | 18 | 699 | 6.499 | 34.572 | 2 | 56.18 | 2 | -132.9 | 2.7 | 2 | 12740 |
| 1 | 17 | 799 | 5.711 | 34.546 | 2 | 61.42 | 2 | -131.7 | 2.9 | 2 | 12754 |
| 1 | 16 | 898 | 4.962 | 34.538 | 2 | 69.33 | 2 | -159.7 | 3.8 | 2 | 12752 |
| 1 | 13 | 1399 | 3.214 | 34.593 | 2 | 111.73 | 2 | -217.1 | 2.8 | 2 | 12404 |
| 1 | 12 | 1601 | 2.808 | 34.612 | 2 | 121.07 | 2 | -220.8 | 2.6 | 2 | 12741 |
| 1 | 10 | 1995 | 2.244 | 34.644 | 2 | 138.82 | 2 | -225.6 | 2.7 | 2 | 12408 |
| 1 | 9 | 2250 | 2.066 | 34.652 | 2 | 141.31 | 6 | -231.7 | 4.3 | 2 | 12406 |
| 1 | 6 | 2999 | 1.661 | 34.676 | 2 | 143.14 | 2 | -224.6 | 2.6 | 2 | 12402 |
| 1 | 1 | 3908 | 1.511 | 34.689 | 2 | 144.76 | 6 | -207.3 | 3.1 | 2 | 12407 |

Station 138

| | | Latitude | | 2.333°S | | | | Date | | 4/11/94 | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---------|-------|
| | | Longitude | | 110.334°W | | | | Bottom Depth | | 3987 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 26.673 | 35.074 | 2 | 4.60 | 2 | 75.4 | 3.1 | 2 | 12755 |
| 1 | 35 | 25 | 23.153 | 35.091 | 2 | 7.09 | 2 | 68.9 | 3.0 | 2 | 12745 |
| 1 | 34 | 50 | 15.462 | 35.054 | 2 | 15.89 | 2 | 34.5 | 3.0 | 2 | 12761 |
| 1 | 30 | 149 | 13.023 | 34.914 | 2 | 22.10 | 2 | 3.0 | 2.9 | 2 | 12759 |
| 1 | 29 | 173 | 12.916 | 34.909 | 2 | 22.61 | 2 | 9.4 | 3.8 | 2 | 12756 |
| 1 | 26 | 303 | 12.356 | 34.882 | 2 | 26.31 | 2 | -22.7 | 3.1 | 2 | 12758 |
| 1 | 23 | 402 | 10.739 | 34.786 | 2 | 33.16 | 2 | -63.2 | 4.1 | 2 | 12760 |
| 1 | 22 | 499 | 8.692 | 34.667 | 2 | 41.95 | 2 | -98.9 | 3.1 | 2 | 12762 |
| 1 | 19 | 798 | 5.760 | 34.558 | 2 | 65.32 | 2 | -143.4 | 3.8 | 2 | 12757 |

Station 142

| | | Latitude | | 1.002°S | | | | Date | | 4/13/94 | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---------|------|
| | | Longitude | | 110.328°W | | | | Bottom Depth | | 4070 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 25.688 | 35.156 | 2 | 3.57 | 2 | 91.7 | 4.1 | 2 | 8025 |
| 1 | 35 | 25 | 25.339 | 35.150 | 2 | 3.92 | 2 | 55.2 | 6.0 | 2 | 8026 |
| 1 | 33 | 75 | 15.386 | 35.141 | 2 | 14.38 | 2 | 24.3 | 3.6 | 2 | 8027 |
| 1 | 32 | 99 | 13.188 | 34.921 | 2 | 17.35 | 2 | 3.8 | 4.8 | 2 | 8028 |

Station 142

| | | Latitude | | 1.002°S | | Date | | 4/13/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 110.328°W | | Bottom Depth | | 4070 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 31 | 124 | 13.079 | 34.910 | 2 | 18.38 | 2 | 17.5 | 3.6 | 2 | 8029 |
| 1 | 30 | 150 | 13.023 | 34.906 | 2 | 18.47 | 2 | 19.0 | 3.6 | 2 | 8030 |
| 1 | 29 | 176 | 12.911 | 34.899 | 2 | 19.71 | 2 | 2.4 | 5.5 | 2 | 8031 |
| 1 | 28 | 198 | 12.868 | 34.897 | 2 | 20.18 | 2 | -2.6 | 4.2 | 2 | 8032 |
| 1 | 27 | 222 | 12.770 | 34.897 | 2 | 20.70 | 2 | -4.7 | 6.8 | 2 | 8033 |
| 1 | 26 | 250 | 12.665 | 34.890 | 2 | 22.28 | 2 | -7.6 | 3.5 | 2 | 8034 |
| 1 | 25 | 299 | 12.366 | 34.874 | 2 | 24.74 | 2 | -22.2 | 3.3 | 2 | 8035 |
| 1 | 23 | 400 | 9.866 | 34.731 | 2 | 31.66 | 2 | -66.0 | 5.0 | 2 | 8036 |
| 1 | 22 | 498 | 8.370 | 34.636 | 2 | 38.40 | 2 | -90.9 | 4.1 | 2 | 8037 |
| 1 | 21 | 599 | 7.120 | 34.581 | 2 | 48.07 | 2 | -110.5 | 7.1 | 2 | 8038 |
| 1 | 20 | 702 | 6.240 | 34.555 | 2 | 56.49 | 2 | -141.2 | 3.0 | 2 | 8040 |
| 1 | 19 | 799 | 5.570 | 34.909 | 4 | 25.71 | 4 | -20.0 | 5.5 | 4 | 8041 |
| 1 | 18 | 898 | 5.049 | 34.545 | 2 | 73.88 | 2 | -161.9 | 2.9 | 2 | 8042 |
| 1 | 17 | 1003 | 4.574 | 34.554 | 2 | 84.40 | 2 | -175.1 | 3.0 | 2 | 8043 |
| 1 | 16 | 1060 | 4.327 | 34.559 | 2 | 89.24 | 2 | -189.9 | 5.7 | 2 | 8044 |
| 1 | 15 | 1199 | 3.878 | 34.569 | 2 | 98.54 | 2 | -194.7 | 3.5 | 2 | 8391 |
| 1 | 14 | 1399 | 3.215 | 34.599 | 3 | 116.98 | 2 | -223.5 | 3.9 | 2 | 8045 |
| 1 | 13 | 1598 | 2.915 | 34.607 | 2 | 123.60 | 2 | -217.5 | 2.7 | 2 | 8046 |
| 1 | 12 | 1801 | 2.475 | 34.631 | 2 | 135.66 | 2 | -241.0 | 3.9 | 2 | 8047 |
| 1 | 10 | 2252 | 2.007 | 34.655 | 2 | 143.15 | 2 | -254.8 | 4.1 | 2 | 8127 |
| 1 | 9 | 2500 | 1.862 | 34.662 | 2 | 143.24 | 2 | -242.4 | 3.8 | 2 | 8128 |
| 1 | 8 | 2749 | 1.766 | 34.669 | 2 | 145.22 | 2 | -238.5 | 3.6 | 2 | 8129 |
| 1 | 7 | 3000 | 1.703 | 34.672 | 2 | 145.78 | 2 | -221.6 | 3.5 | 2 | 8130 |
| 1 | 6 | 3249 | 1.607 | 34.678 | 2 | 147.73 | 2 | -233.2 | 3.4 | 2 | 8131 |
| 1 | 5 | 3500 | 1.534 | 34.684 | 2 | 149.69 | 2 | -221.7 | 4.2 | 2 | 8132 |
| 1 | 4 | 3749 | 1.453 | 34.690 | 2 | 148.20 | 2 | -238.6 | 3.2 | 2 | 8413 |
| 1 | 2 | 4002 | 1.471 | 34.690 | 2 | 145.53 | 2 | -223.7 | 5.0 | 2 | 8133 |
| 1 | 1 | 4118 | 1.485 | 34.690 | 2 | 144.90 | 2 | -216.2 | 4.1 | 2 | 8134 |

Station 145

| | | Latitude | | 0.003°S | | Date | | 4/13/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 110.334°W | | Bottom Depth | | 3785 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 36 | 9 | 24.723 | 35.134 | 2 | 4.71 | 2 | 54.4 | 4.5 | 2 | 8135 |
| 3 | 34 | 52 | 17.479 | 34.859 | 2 | 12.69 | 2 | 63.2 | 4.3 | 2 | 8136 |
| 3 | 32 | 102 | 14.707 | 34.952 | 2 | 14.83 | 2 | 37.7 | 6.2 | 2 | 8137 |
| 3 | 28 | 195 | 13.135 | 34.883 | 2 | 19.59 | 2 | 13.9 | 4.5 | 2 | 8138 |
| 3 | 22 | 399 | 9.475 | 34.699 | 2 | 34.46 | 2 | -68.3 | 4.8 | 2 | 8144 |
| 3 | 18 | 800 | 5.669 | 34.558 | 3 | 66.43 | 2 | -137.0 | 4.0 | 2 | 8145 |

Station 148

| | | Latitude | | 1.001°N | | Date | | 4/14/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 110.333°W | | Bottom Depth | | 3675 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 8 | 25.256 | 34.904 | 2 | 3.19 | 2 | 75.7 | 4.7 | 2 | 8146 |
| 1 | 35 | 25 | 24.486 | 34.968 | 2 | 3.89 | 2 | 69.0 | 5.1 | 2 | 8139 |
| 1 | 34 | 49 | 17.735 | 34.859 | 2 | 11.32 | 2 | 46.2 | 4.5 | 2 | 8140 |
| 1 | 33 | 74 | 15.301 | 34.951 | 2 | 14.97 | 2 | 32.1 | 4.9 | 2 | 8141 |
| 1 | 30 | 151 | 13.445 | 34.913 | 2 | 19.31 | 2 | 7.2 | 7.7 | 2 | 8142 |
| 1 | 28 | 201 | 12.743 | 34.888 | 2 | 21.64 | 2 | -0.3 | 4.8 | 2 | 8143 |
| 1 | 26 | 301 | 11.604 | 34.714 | 4 | 39.24 | 4 | -70.2 | 3.9 | 2 | 8147 |
| 1 | 23 | 400 | 9.854 | 34.713 | 2 | 34.40 | 2 | -69.7 | 3.6 | 2 | 8148 |
| 1 | 22 | 500 | 8.356 | 34.635 | 2 | 41.28 | 2 | -103.3 | 4.8 | 2 | 8149 |

Station 152

| | | Latitude | | 2.333°N | | Date | | 4/15/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 110.333°W | | Bottom Depth | | 3701 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 25 | 27.057 | 34.501 | 2 | 3.90 | 2 | 40.9 | 7.0 | 2 | 8150 |
| 1 | 34 | 50 | 18.835 | 34.814 | 2 | 10.62 | 2 | 47.4 | 4.3 | 2 | 8151 |
| 1 | 32 | 101 | 14.955 | 34.956 | 2 | 17.32 | 2 | 33.6 | 4.8 | 2 | 8152 |
| 1 | 30 | 153 | 13.634 | 34.932 | 2 | 21.00 | 2 | 2.9 | 6.3 | 2 | 8153 |
| 1 | 25 | 302 | 11.266 | 34.774 | 2 | 29.96 | 2 | -43.2 | 3.8 | 2 | 8155 |
| 1 | 22 | 402 | 9.276 | 34.671 | 2 | 40.23 | 2 | -93.6 | 4.4 | 2 | 8156 |

Station 156

| | | Latitude | | 4.002°N | | Date | | 4/16/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 110.335°W | | Bottom Depth | | 3930 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 27.964 | 34.452 | 2 | 1.65 | 2 | 71.8 | 4.5 | 2 | 8157 |
| 1 | 35 | 25 | 25.979 | 34.424 | 2 | 2.49 | 2 | 79.8 | 8.0 | 2 | 8158 |
| 1 | 34 | 51 | 19.717 | 34.723 | 2 | 10.37 | 2 | 51.8 | 4.3 | 2 | 8159 |
| 1 | 33 | 76 | 15.960 | 34.924 | 2 | 15.92 | 2 | 32.5 | 5.8 | 2 | 8154 |
| 1 | 32 | 100 | 14.494 | 34.947 | 2 | 17.54 | 2 | 34.3 | 3.9 | 2 | 8369 |
| 1 | 30 | 149 | 13.687 | 34.930 | 2 | 19.80 | 2 | 14.8 | 4.5 | 2 | 8370 |
| 1 | 29 | 169 | 13.462 | 34.919 | 2 | 21.27 | 2 | 2.5 | 4.3 | 2 | 8371 |
| 1 | 28 | 198 | 13.133 | 34.901 | 2 | 22.78 | 2 | -3.9 | 8.0 | 2 | 8372 |
| 1 | 27 | 250 | 12.449 | 34.853 | 2 | 25.66 | 2 | -22.6 | 3.1 | 2 | 8373 |
| 1 | 25 | 350 | 10.952 | 34.750 | 2 | 28.70 | 2 | -63.1 | 5.7 | 2 | 8374 |
| 1 | 23 | 400 | 10.253 | 34.713 | 2 | 32.49 | 2 | -73.9 | 5.9 | 2 | 8375 |
| 1 | 22 | 499 | 8.428 | 34.643 | 2 | 46.12 | 2 | -117.9 | 3.4 | 2 | 8376 |

Station 156

| | | Latitude | | 4.002°N | | Date | | 4/16/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 110.335°W | | Bottom Depth | | 3930 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 21 | 602 | 7.322 | 34.590 | 2 | 49.10 | 2 | -126.9 | 2.6 | 2 | 8377 |
| 1 | 20 | 699 | 6.566 | 34.563 | 2 | 55.12 | 2 | -152.6 | 5.0 | 2 | 8378 |
| 1 | 19 | 802 | 6.010 | 34.557 | 2 | 62.86 | 2 | -141.9 | 2.5 | 2 | 8379 |
| 1 | 17 | 1002 | 4.847 | 34.555 | 2 | 85.38 | 2 | -184.0 | 2.5 | 2 | 8380 |
| 1 | 16 | 1101 | 4.473 | 34.563 | 2 | 97.05 | 2 | -194.1 | 2.5 | 2 | 8381 |
| 1 | 14 | 1301 | 3.692 | 34.583 | 2 | 112.89 | 2 | -202.4 | 2.8 | 2 | 8382 |
| 1 | 12 | 1601 | 2.941 | 34.614 | 2 | 129.79 | 2 | -220.9 | 3.1 | 2 | 8383 |
| 1 | 11 | 1802 | 2.561 | 34.630 | 2 | 135.64 | 2 | -237.8 | 3.4 | 2 | 8384 |
| 1 | 10 | 2000 | 2.320 | 34.640 | 2 | 141.93 | 2 | -232.4 | 3.2 | 2 | 8385 |
| 1 | 9 | 2240 | 2.076 | 34.653 | 2 | 150.37 | 2 | -242.3 | 2.6 | 2 | 8386 |
| 1 | 8 | 2501 | 1.876 | 34.664 | 2 | 156.15 | 2 | -238.6 | 2.4 | 2 | 8387 |
| 1 | 6 | 2999 | 1.763 | 34.672 | 2 | 155.31 | 2 | -228.7 | 2.3 | 2 | 8388 |
| 1 | 5 | 3252 | 1.617 | 34.678 | 2 | 154.73 | 2 | -230.7 | 2.4 | 2 | 8389 |
| 1 | 4 | 3500 | 1.494 | 34.686 | 2 | 153.44 | 2 | -229.3 | 2.4 | 2 | 8390 |
| 1 | 2 | 3751 | 1.465 | 34.688 | 2 | 151.02 | 2 | -221.2 | 2.5 | 2 | 8392 |

Station 163

| | | Latitude | | 7.498°N | | Date | | 4/18/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|--------------|
| | | Longitude | | 110.335°W | | Bottom Depth | | 3939 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 28.928 | 33.936 | 2 | 1.23 | 2 | 79.4 | 5.3 | 2 | 8393 |
| 1 | 35 | 25 | 28.935 | 33.937 | 2 | 1.24 | 2 | 82.5 | 3.1 | 2 | 8394 |
| 1 | 34 | 50 | 27.231 | 34.022 | 2 | 1.32 | 2 | 78.4 | 3.6 | 2 | 8395 |
| 1 | 33 | 75 | 14.944 | 34.736 | 2 | 19.69 | 2 | 26.0 | 2.7 | 2 | 8396 |
| 1 | 32 | 100 | 13.163 | 34.818 | 3 | 22.49 | 2 | 11.9 | 3.5 | 2 | 8397 |
| 1 | 30 | 151 | 11.977 | 34.784 | 2 | 26.02 | 2 | -24.3 | 2.7 | 2 | 8398 |
| 1 | 28 | 200 | 11.286 | 34.750 | 2 | 27.75 | 2 | -43.5 | 2.6 | 2 | 8399 |
| 1 | 26 | 301 | 10.426 | 34.719 | 2 | 31.33 | 2 | -64.4 | 2.9 | 2 | 8400 |
| 1 | 23 | 401 | 9.589 | 34.671 | 2 | 38.86 | 2 | -95.3 | 3.5 | 2 | 8401 |
| 1 | 22 | 499 | 8.224 | 34.619 | 2 | 51.37 | 2 | -117.0 | 4.0 | 2 | 8402 |
| 1 | 21 | 600 | 7.183 | 34.586 | 2 | 59.96 | 2 | -130.5 | 3.2 | 2 | 8403 |
| 1 | 20 | 701 | 6.384 | 34.570 | 2 | 69.32 | 2 | -151.8 | 2.4 | 2 | 8405 |
| 1 | 19 | 801 | 5.733 | 34.562 | 2 | 78.46 | 2 | -152.7 | 2.4 | 2 | 8404 |
| 1 | 18 | 899 | 5.184 | 34.560 | 2 | 87.04 | 2 | -174.9 | 8.4 | 6 | 8406 8406 |
| 1 | 17 | 1001 | 4.741 | 34.562 | 2 | 92.15 | 2 | -174.6 | 2.4 | 2 | 8407 |
| 1 | 16 | 1200 | 4.028 | 34.574 | 2 | 105.97 | 2 | -212.2 | 3.5 | 2 | 8412 |
| 1 | 15 | 1398 | 3.430 | 34.593 | 2 | 121.61 | 2 | -221.9 | 3.5 | 2 | 8408 |
| 1 | 14 | 1600 | 3.004 | 34.610 | 2 | 130.38 | 2 | -229.2 | 4.8 | 2 | 8409 |

Station 163

| | | Latitude | | 7.498°N | | Date | | 4/18/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 110.335°W | | Bottom Depth | | 3939 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 12 | 2000 | 2.339 | 34.635 | 2 | 144.42 | 2 | -234.2 | 2.9 | 2 | 8410 |
| 1 | 10 | 2401 | 1.904 | 34.663 | 2 | 155.79 | 2 | -240.3 | 2.5 | 2 | 8453 |
| 1 | 7 | 3000 | 1.690 | 34.675 | 2 | 160.36 | 2 | -248.5 | 6.1 | 2 | 8414 |
| 1 | 5 | 3401 | 1.567 | 34.682 | 2 | 157.01 | 2 | -235.8 | 6.0 | 2 | 8415 |
| 1 | 1 | 3984 | 1.547 | 34.686 | 2 | 154.15 | 2 | -233.7 | 2.6 | 2 | 8416 |

Station 168

| | | Latitude | | 10.000°N | | Date | | 4/19/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 110.001°W | | Bottom Depth | | 3310 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 36 | 9 | 28.821 | 33.995 | 2 | 0.42 | 2 | 74.7 | 3.1 | 2 | 8417 |
| 3 | 35 | 24 | 28.744 | 34.003 | 2 | 0.42 | 2 | 78.6 | 3.5 | 2 | 8418 |
| 3 | 34 | 50 | 28.236 | 34.095 | 2 | 0.73 | 2 | 55.3 | 4.2 | 2 | 8419 |
| 3 | 33 | 74 | 23.671 | 34.235 | 3 | 5.34 | 2 | 53.9 | 3.6 | 2 | 8420 |
| 3 | 31 | 125 | 14.265 | 34.783 | 2 | 21.63 | 2 | 21.3 | 3.5 | 2 | 8421 |
| 3 | 29 | 174 | 12.181 | 34.785 | 2 | 26.12 | 2 | -3.8 | 4.4 | 2 | 8422 |
| 3 | 28 | 194 | 11.884 | 34.774 | 2 | 26.73 | 2 | -18.3 | 5.4 | 2 | 8423 |
| 3 | 27 | 249 | 11.284 | 34.749 | 2 | 28.55 | 2 | -59.5 | 3.3 | 2 | 8424 |
| 3 | 26 | 300 | 10.767 | 34.725 | 2 | 30.13 | 2 | -65.1 | 2.8 | 2 | 8425 |
| 3 | 25 | 349 | 10.308 | 34.700 | 2 | 33.75 | 2 | -89.2 | 2.8 | 2 | 8426 |
| 3 | 23 | 399 | 9.815 | 34.674 | 2 | 37.51 | 2 | -106.3 | 3.4 | 2 | 8428 |
| 3 | 22 | 500 | 8.544 | 34.603 | 2 | 47.90 | 2 | -134.8 | 3.5 | 2 | 8429 |
| 3 | 21 | 600 | 7.228 | 34.569 | 2 | 61.52 | 2 | -154.9 | 3.4 | 2 | 8430 |
| 3 | 20 | 699 | 6.402 | 34.559 | 2 | 70.43 | 2 | -155.0 | 7.2 | 2 | 8431 |
| 3 | 19 | 799 | 5.710 | 34.550 | 2 | 78.49 | 2 | -169.6 | 4.7 | 2 | 14312 |
| 3 | 17 | 999 | 4.779 | 34.556 | 2 | 92.49 | 2 | -188.8 | 3.6 | 2 | 14314 |
| | | | | | | | | | | | 9278 |
| 3 | 16 | 1100 | 4.341 | 34.564 | 2 | 99.27 | 2 | -204.8 | 4.7 | 2 | 8435 |
| 3 | 15 | 1199 | 3.998 | 34.574 | 2 | 105.34 | 2 | -208.5 | 3.9 | 2 | 8436 |
| 3 | 14 | 1299 | 3.671 | 34.583 | 2 | 110.89 | 2 | -217.6 | 5.0 | 2 | 14313 |
| 3 | 13 | 1398 | 3.483 | -9 | 5 | -9 | 9 | -230.5 | 5.2 | 2 | 14315 |
| 3 | 12 | 1498 | 3.239 | 34.598 | 2 | 123.34 | 2 | -224.0 | 3.7 | 2 | 8438 |
| 3 | 11 | 1599 | 2.996 | 34.606 | 2 | 132.70 | 2 | -230.7 | 2.8 | 2 | 8820 |
| 3 | 10 | 1798 | 2.637 | 34.626 | 2 | 140.90 | 2 | -233.7 | 2.8 | 2 | 8439 |
| 3 | 9 | 1997 | 2.298 | 34.641 | 2 | 147.50 | 2 | -236.9 | 4.3 | 2 | 8440 |
| 3 | 8 | 2193 | 2.043 | 34.654 | 2 | 151.69 | 2 | -233.9 | 3.8 | 2 | 8441 |
| 3 | 7 | 2399 | 1.923 | 34.661 | 2 | 153.38 | 2 | -242.4 | 2.5 | 2 | 8442 |
| 3 | 6 | 2601 | 1.837 | 34.666 | 2 | 152.31 | 2 | -243.0 | 2.3 | 2 | 8443 |
| 3 | 5 | 2801 | 1.766 | 34.670 | 2 | 151.81 | 2 | -241.9 | 2.5 | 2 | 8444 |

Station 168

| | | Latitude | | 10.000°N | | Date | | 4/19/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 110.001°W | | Bottom Depth | | 3310 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 4 | 2999 | 1.718 | 34.674 | 2 | 150.83 | 2 | -242.8 | 3.5 | 2 | 8445 |
| 3 | 2 | 3196 | 1.683 | 34.676 | 2 | 153.18 | 2 | -241.1 | 4.1 | 2 | 8446 |
| 3 | 1 | 3342 | 1.651 | 34.679 | 2 | 157.09 | 2 | -236.7 | 4.0 | 2 | 8447 |

Station 174

| | | Latitude | | 14.002°N | | Date | | 4/21/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 109.998°W | | Bottom Depth | | 3275 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 28.503 | 33.893 | 2 | 0.15 | 2 | 62.0 | 4.4 | 2 | 8448 |
| 1 | 34 | 25 | 28.409 | 33.905 | 2 | 0.23 | 2 | 82.5 | 4.2 | 2 | 8449 |
| 1 | 33 | 49 | 28.158 | 33.886 | 2 | 0.10 | 2 | 80.7 | 5.4 | 2 | 8450 |
| 1 | 32 | 74 | 27.191 | 33.939 | 2 | 0.59 | 2 | 75.4 | 4.5 | 2 | 8451 |
| 1 | 31 | 99 | 22.052 | 34.388 | 2 | 4.91 | 2 | 55.8 | 5.0 | 2 | 8452 |
| 1 | 29 | 148 | 14.038 | 34.776 | 2 | 23.03 | 2 | -27.1 | 3.0 | 2 | 9279 |
| 1 | 27 | 200 | 12.319 | 34.759 | 2 | 26.98 | 2 | -41.8 | 2.3 | 2 | 8805 |
| 1 | 25 | 301 | 10.687 | 34.688 | 2 | 32.59 | 2 | -75.3 | 2.6 | 2 | 8806 |
| 1 | 22 | 400 | 9.597 | 34.630 | 2 | 39.82 | 2 | -93.9 | 2.4 | 2 | 8807 |
| 1 | 21 | 500 | 8.435 | 34.576 | 2 | 47.38 | 2 | -107.3 | 2.7 | 2 | 8808 |
| 1 | 20 | 601 | 7.463 | 34.545 | 2 | 57.19 | 2 | -126.2 | 2.1 | 2 | 8809 |
| 1 | 19 | 701 | 6.654 | 34.528 | 2 | 66.04 | 2 | -157.9 | 3.1 | 2 | 8810 |
| 1 | 18 | 800 | 5.942 | -9 | 5 | 79.38 | 2 | -177.6 | 3.9 | 2 | 8811 |
| 1 | 17 | 898 | 5.381 | 34.541 | 2 | 86.01 | 2 | -181.6 | 2.7 | 2 | 8813 |
| 1 | 16 | 1000 | 4.818 | 34.545 | 2 | 95.83 | 2 | -196.9 | 2.3 | 2 | 8814 |
| 1 | 14 | 1201 | 4.062 | 34.565 | 2 | 110.96 | 2 | -207.9 | 2.3 | 2 | 8815 |
| 1 | 12 | 1400 | 3.517 | 34.584 | 2 | 123.77 | 2 | -215.6 | 2.9 | 2 | 8816 |
| 1 | 11 | 1599 | 2.925 | 34.608 | 2 | 136.82 | 2 | -227.8 | 2.2 | 2 | 8817 |
| 1 | 10 | 1802 | 2.543 | 34.624 | 2 | 145.69 | 2 | -236.4 | 3.2 | 2 | 8818 |
| 1 | 9 | 1999 | 2.256 | 34.640 | 2 | 149.32 | 2 | -230.0 | 2.9 | 2 | 8819 |
| 1 | 7 | 2399 | 1.959 | 34.658 | 2 | 154.25 | 2 | -240.0 | 2.7 | 2 | 8821 |
| 1 | 4 | 3002 | 1.727 | 34.674 | 2 | 156.39 | 6 | -236.5 | 3.1 | 2 | 8822 |
| 1 | 1 | 3316 | 1.671 | 34.675 | 2 | 154.94 | 2 | -235.7 | 3.3 | 2 | 8823 |

Station 178

| | | Latitude | | 16.017°N | | Date | | 4/22/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 110.331°W | | Bottom Depth | | 3307 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 34 | 25 | 25.170 | 34.498 | 2 | 0.00 | 2 | 87.1 | 3.1 | 2 | 12774 |
| 1 | 33 | 48 | 24.156 | 34.503 | 2 | 0.00 | 2 | 68.9 | 3.5 | 2 | 12781 |
| 1 | 32 | 73 | 21.469 | 34.338 | 3 | 0.54 | 2 | 68.9 | 4.8 | 2 | 12778 |
| 1 | 31 | 101 | 16.774 | 34.254 | 2 | 9.58 | 2 | 48.5 | 3.1 | 2 | 12771 |
| 1 | 28 | 175 | 12.463 | 34.745 | 2 | 27.36 | 2 | -26.5 | 6.7 | 2 | 12779 |
| 1 | 26 | 251 | 11.259 | 34.706 | 2 | 31.81 | 2 | -74.3 | 3.0 | 2 | 12471 |
| 1 | 25 | 302 | 10.795 | 34.693 | 2 | 33.22 | 2 | -75.8 | 2.8 | 2 | 12782 |
| 1 | 23 | 349 | 9.979 | 34.649 | 2 | 37.85 | 2 | -87.9 | 4.1 | 2 | 12775 |
| 1 | 22 | 400 | 9.166 | 34.616 | 2 | 44.66 | 2 | -110.8 | 3.9 | 2 | 12776 |
| 1 | 21 | 449 | 8.524 | 34.579 | 2 | 50.40 | 2 | -112.1 | 4.5 | 2 | 12765 |
| 1 | 20 | 499 | 7.873 | 34.553 | 2 | 56.07 | 2 | -117.5 | 2.9 | 2 | 12766 |
| 1 | 19 | 600 | 6.783 | 34.537 | 2 | 67.75 | 2 | -134.9 | 4.4 | 2 | 12773 |
| 1 | 18 | 683 | 6.102 | 34.531 | 2 | 75.01 | 2 | -152.2 | 3.1 | 2 | 12769 |
| 1 | 17 | 800 | 5.377 | 34.533 | 2 | 83.94 | 2 | -173.8 | 3.7 | 2 | 12468 |
| 1 | 16 | 903 | 4.946 | 34.538 | 2 | 90.12 | 2 | -181.4 | 3.0 | 2 | 12764 |
| 1 | 15 | 998 | 4.472 | 34.547 | 2 | 98.07 | 2 | -201.2 | 4.1 | 2 | 12770 |
| 1 | 14 | 1100 | 4.091 | 34.556 | 2 | 104.99 | 2 | -193.9 | 3.0 | 2 | 12777 |
| 1 | 13 | 1300 | 3.615 | 34.576 | 2 | 117.93 | 2 | -219.1 | 2.6 | 2 | 12780 |
| 1 | 12 | 1500 | 3.073 | 34.599 | 2 | 132.12 | 2 | -226.3 | 3.9 | 2 | 12768 |
| 1 | 11 | 1699 | 2.721 | 34.616 | 2 | 137.30 | 2 | -236.7 | 2.7 | 2 | 12472 |
| 1 | 10 | 1901 | 2.348 | 34.634 | 2 | 143.16 | 2 | -240.7 | 2.7 | 2 | 12767 |
| 1 | 9 | 2100 | 2.096 | 34.647 | 2 | 147.87 | 2 | -246.2 | 3.0 | 2 | 12467 |
| 1 | 8 | 2298 | 1.933 | 34.657 | 2 | 154.16 | 2 | -240.1 | 3.0 | 2 | 12470 |
| 1 | 7 | 2500 | 1.802 | 34.665 | 2 | 158.80 | 2 | -233.3 | 2.8 | 2 | 12763 |
| 1 | 5 | 2897 | 1.697 | 34.672 | 2 | 156.70 | 2 | -230.8 | 3.7 | 2 | 12469 |
| 1 | 4 | 3099 | 1.682 | 34.674 | 2 | 154.42 | 6 | -223.8 | 5.8 | 2 | 12772 |
| 1 | 1 | 3307 | 1.678 | 34.676 | 2 | 158.08 | 2 | -248.4 | 4.5 | 2 | 12473 |

Station 182

| | | Latitude | | 17.998°N | | Date | | 4/23/94 | | | |
|------|------|-----------|---------|-----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 110.327°W | | Bottom Depth | | 3269 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 9 | 25.513 | 34.574 | 2 | 0.00 | 2 | 65.8 | 4.8 | 2 | 8824 |
| 1 | 34 | 24 | 25.334 | 34.556 | 2 | 0.00 | 2 | 74.6 | 3.0 | 2 | 8825 |
| 1 | 33 | 48 | 24.776 | 34.527 | 2 | 0.00 | 2 | 76.1 | 5.7 | 2 | 8826 |
| 1 | 32 | 74 | 23.157 | 34.367 | 2 | 0.00 | 2 | 72.4 | 3.1 | 2 | 8827 |
| 1 | 31 | 98 | 18.556 | 34.168 | 2 | 4.40 | 2 | 63.5 | 2.8 | 2 | 8828 |
| 1 | 30 | 124 | 14.818 | 34.241 | 2 | 13.56 | 2 | 33.8 | 3.2 | 2 | 8829 |
| 1 | 29 | 150 | 13.604 | 34.481 | 3 | 22.11 | 2 | 4.5 | 3.1 | 2 | 8830 |

Station 182

| | | Latitude | | 17.998°N | | Date | | 4/23/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 110.327°W | | Bottom Depth | | 3269 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 26 | 300 | 10.667 | 34.665 | 2 | 36.52 | 2 | -76.5 | 2.4 | 2 | 8831 |
| 1 | 23 | 399 | 9.055 | 34.592 | 2 | 49.44 | 2 | -106.9 | 1.8 | 6 | 8832 |
| | | | | | | | | | | | 8833 |
| 1 | 22 | 500 | 7.707 | 34.530 | 2 | 61.73 | 2 | -129.9 | 2.3 | 2 | 8834 |
| 1 | 21 | 599 | 6.628 | 34.519 | 2 | 72.74 | 2 | -153.9 | 2.4 | 2 | 8835 |
| 1 | 20 | 694 | 5.942 | 34.521 | 2 | 78.85 | 2 | -165.7 | 2.3 | 2 | 8836 |
| 1 | 19 | 802 | 5.362 | 34.525 | 2 | 88.85 | 2 | -179.5 | 2.1 | 2 | 8837 |
| 1 | 18 | 902 | 4.857 | 34.530 | 2 | 98.81 | 2 | -189.8 | 2.1 | 2 | 8838 |
| 1 | 17 | 1001 | 4.470 | 34.540 | 2 | 106.11 | 2 | -193.1 | 2.7 | 2 | 8839 |
| 1 | 15 | 1200 | 3.780 | 34.570 | 2 | 118.42 | 2 | -205.6 | 2.1 | 2 | 8840 |
| 1 | 13 | 1401 | 3.252 | 34.588 | 2 | 128.03 | 2 | -210.3 | 3.2 | 2 | 8841 |
| 1 | 11 | 1600 | 2.801 | 34.610 | 2 | 140.38 | 2 | -214.7 | 2.7 | 2 | 8842 |
| 1 | 10 | 1801 | 2.469 | 34.628 | 2 | 143.60 | 2 | -213.0 | 3.8 | 2 | 8843 |
| 1 | 9 | 1999 | 2.204 | 34.642 | 2 | 149.13 | 2 | -215.8 | 2.3 | 2 | 8844 |
| 1 | 7 | 2400 | 1.873 | 34.661 | 2 | 160.56 | 2 | -218.9 | 2.3 | 2 | 8845 |
| 1 | 4 | 3000 | 1.703 | -9 | 5 | 161.31 | 6 | -216.3 | 2.2 | 2 | 8846 |
| 1 | 1 | 3298 | 1.705 | 34.675 | 2 | 156.54 | 2 | -216.3 | 3.6 | 2 | 8847 |

Station 190

| | | Latitude | | 21.998°N | | Date | | 4/25/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 110.316°W | | Bottom Depth | | 3165 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 35 | 23 | 20.685 | 34.318 | 2 | 1.19 | 2 | 62.3 | 3.8 | 2 | 13489 |
| 1 | 34 | 51 | 18.842 | 34.098 | 2 | 3.48 | 2 | 58.2 | 5.6 | 2 | 13497 |
| 1 | 33 | 75 | 18.263 | 34.123 | 2 | 5.41 | 2 | 39.3 | 3.8 | 2 | 13508 |
| 1 | 32 | 99 | 15.277 | 34.623 | 4 | 17.00 | 2 | 24.4 | 3.3 | 2 | 13498 |
| 1 | 28 | 199 | 11.646 | 34.686 | 2 | 33.56 | 2 | -68.4 | 3.8 | 2 | 13500 |
| 1 | 26 | 301 | 10.020 | 34.586 | 2 | 41.81 | 2 | -84.1 | 2.9 | 2 | 13502 |
| 1 | 23 | 399 | 8.529 | 34.519 | 2 | 51.95 | 2 | -110.5 | 4.1 | 2 | 13499 |
| 1 | 22 | 500 | 7.355 | 34.490 | 2 | 64.30 | 2 | -145.2 | 2.5 | 2 | 13925 |
| 1 | 21 | 598 | 6.539 | 34.487 | 2 | 76.49 | 2 | -147.5 | 4.1 | 2 | 13501 |
| 1 | 20 | 701 | 5.842 | 34.487 | 2 | 86.61 | 2 | -172.6 | 2.5 | 2 | 13488 |
| 1 | 19 | 805 | 5.222 | 34.502 | 2 | 96.13 | 2 | -178.5 | 3.0 | 2 | 13505 |
| 1 | 18 | 896 | 4.824 | 34.517 | 2 | 102.00 | 2 | -191.7 | 4.5 | 2 | 13490 |
| 1 | 17 | 997 | 4.425 | 34.535 | 2 | 108.89 | 2 | -201.5 | 5.5 | 2 | 13503 |
| 1 | 15 | 1198 | 3.818 | 34.557 | 2 | 125.01 | 2 | -219.3 | 2.1 | 2 | 13496 |
| 1 | 14 | 1400 | 3.168 | 34.592 | 2 | 140.92 | 2 | -226.8 | 2.9 | 2 | 13506 |
| 1 | 12 | 1574 | 2.931 | 34.603 | 2 | 138.79 | 2 | -233.7 | 5.8 | 2 | 13509 |
| 1 | 10 | 1800 | 2.482 | 34.314 | 4 | 147.60 | 2 | -245.6 | 2.4 | 2 | 13487 |

Station 190

| | | Latitude | | 21.998°N | | Date | | 4/25/94 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 110.316°W | | Bottom Depth | | 3165 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 9 | 2001 | 2.184 | 34.640 | 2 | 151.94 | 2 | -244.4 | 2.5 | 2 | 13504 |
| 1 | 7 | 2401 | 1.889 | 34.657 | 2 | 154.47 | 2 | -243.0 | 3.6 | 2 | 13507 |
| 1 | 4 | 2999 | 1.686 | 34.670 | 2 | 162.06 | 6 | -236.9 | 3.1 | 2 | 14750 |
| 1 | 2 | 3099 | 1.668 | 34.672 | 2 | 165.58 | 2 | -241.1 | 3.3 | 2 | 13510 |

WOCE Cruise P19C
EXPCODE: 316N138/12
 2/22/93 - 4/13/93
 Chief Scientist: L.D. Talley
 Principal Investigator for $\Delta^{14}\text{C}$: R.M. Key
 NOSAMS Reports: 94-109 & 97-128

Station 236

| | | Latitude | | 53.111°S | | Date | | 2/23/93 | | | |
|------|------|-------------|------------|----------|---|--------------------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 75.024°W | | Bottom Depth | | 1437 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 51 | 2 | 9.914 | 33.745 | 2 | 2.30 | 2 | 63.1 | 5.0 | 2 | 10738 |
| 1 | 30 | 104 | 8.453 | 33.948 | 2 | 3.91 | 2 | 50.1 | 4.2 | 2 | 10737 |
| 1 | 71 | 204 | 6.529 | 34.118 | 2 | 7.89 | 2 | 42.6 | 3.0 | 2 | 10736 |
| 1 | 28 | 355 | 5.355 | 34.192 | 2 | 8.78 | 2 | 20.2 | 3.0 | 2 | 10735 |
| 1 | 67 | 455 | 5.160 | 34.211 | 2 | 10.20 | 2 | 18.0 | 6.3 | 2 | 10734 |
| 1 | 61 | 656 | 4.750 | 34.223 | 2 | 14.52 | 2 | -11.6 | 4.0 | 2 | 10733 |
| 1 | 58 | 806 | 4.218 | 34.239 | 2 | 23.44 | 2 | -42.7 | 5.5 | 2 | 10714 |
| 1 | 29 | 1206 | 2.916 | 34.430 | 2 | 62.32 | 2 | -132.9 | 4.0 | 2 | 10713 |

Station 238

| | | Latitude | | 53.200°S | | Date | | 2/24/93 | | | |
|------|------|-------------|------------|----------|---|--------------------------|---|----------------------------|----------|---|------|
| | | Longitude | | 75.494°W | | Bottom Depth | | 2011 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 51 | 12 | 10.469 | 33.599 | 2 | 1.78 | 2 | 62.5 | 3.6 | 2 | 8237 |
| 1 | 30 | 88 | 8.071 | 33.962 | 2 | 4.12 | 2 | 56.6 | 3.9 | 2 | 8236 |
| 1 | 70 | 180 | 7.102 | 34.149 | 2 | 8.82 | 2 | 25.1 | 4.9 | 2 | 8235 |
| 1 | 28 | 279 | 5.738 | 34.172 | 2 | 8.27 | 2 | 52.7 | 4.1 | 2 | 8234 |
| 1 | 68 | 381 | 5.387 | 34.212 | 2 | 9.53 | 2 | 42.4 | 4.3 | 2 | 8233 |
| 1 | 67 | 480 | 5.203 | 34.225 | 2 | 10.79 | 2 | 14.2 | 8.2 | 2 | 8232 |
| 1 | 33 | 579 | 5.042 | 34.224 | 2 | 11.52 | 2 | 11.3 | 4.9 | 2 | 8231 |
| 1 | 66 | 679 | 4.814 | 34.222 | 2 | 13.51 | 2 | -9.2 | 5.2 | 2 | 8230 |
| 1 | 32 | 779 | 4.436 | 34.224 | 2 | 18.59 | 2 | -18.8 | 3.8 | 2 | 8229 |
| 1 | 65 | 879 | 4.086 | 34.248 | 2 | 26.03 | 2 | -44.5 | 4.9 | 2 | 8228 |
| 1 | 64 | 978 | 3.689 | 34.281 | 2 | 35.11 | 2 | -70.8 | 5.2 | 2 | 8227 |
| 1 | 62 | 1177 | 3.115 | 34.387 | 2 | 55.28 | 2 | -128.3 | 4.1 | 2 | 8226 |
| 1 | 61 | 1377 | 2.851 | 34.486 | 2 | 73.32 | 2 | -163.7 | 3.6 | 2 | 8225 |
| 1 | 58 | 1579 | 2.608 | 34.553 | 2 | 85.41 | 2 | -197.5 | 3.6 | 2 | 8224 |
| 1 | 56 | 1782 | 2.403 | 34.601 | 2 | 96.46 | 2 | -179.7 | 4.4 | 2 | 8223 |
| 1 | 53 | 2014 | 2.110 | 34.649 | 2 | 109.47 | 2 | -198.0 | 4.5 | 2 | 8222 |

Station 241

| | | Latitude | | 53.342°S | | Date | | 2/25/93 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 76.584°W | | Bottom Depth | | 4105 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 52 | 2 | 9.664 | 33.951 | 2 | 1.42 | 2 | 14.2 | 3.6 | 2 | 7066 |
| 2 | 30 | 106 | 6.252 | 34.087 | 2 | 6.17 | 2 | 36.0 | 3.1 | 2 | 7722 |
| 2 | 26 | 131 | 5.902 | 34.115 | 2 | 6.68 | 2 | 31.1 | 3.2 | 2 | 7721 |
| 2 | 74 | 156 | 5.742 | 34.147 | 2 | 6.48 | 2 | 25.0 | 3.1 | 2 | 7720 |
| 2 | 73 | 181 | 5.559 | 34.175 | 2 | 7.89 | 2 | 16.0 | 3.1 | 2 | 7719 |
| 2 | 72 | 206 | 5.482 | 34.188 | 2 | 8.23 | 2 | 23.0 | 2.9 | 2 | 7718 |
| 2 | 71 | 256 | 5.367 | 34.199 | 2 | 8.56 | 2 | 22.9 | 3.5 | 2 | 7717 |
| 2 | 70 | 305 | 5.342 | 34.209 | 2 | 8.90 | 2 | 22.8 | 3.9 | 2 | 7716 |
| 2 | 36 | 354 | 5.261 | 34.217 | 2 | 9.41 | 2 | 17.3 | 3.0 | 2 | 7715 |
| 2 | 28 | 404 | 5.143 | 34.220 | 2 | 10.47 | 2 | -22.7 | 2.9 | 3 | 7714 |
| 2 | 35 | 503 | 4.976 | 34.221 | 2 | 11.16 | 2 | 11.9 | 3.2 | 2 | 7713 |
| 2 | 68 | 602 | 4.756 | 34.223 | 2 | 14.20 | 2 | -11.8 | 2.6 | 2 | 7712 |
| 2 | 34 | 703 | 4.381 | 34.222 | 2 | 18.48 | 2 | -26.6 | 2.6 | 2 | 7711 |
| 2 | 67 | 802 | 4.042 | 34.245 | 2 | 25.65 | 2 | -46.8 | 2.6 | 2 | 7710 |
| 2 | 33 | 903 | 3.573 | 34.286 | 2 | 36.23 | 2 | -79.5 | 3.7 | 2 | 7709 |
| 4 | 26 | 1010 | 3.266 | 34.345 | 2 | 47.95 | 2 | -105.2 | 5.8 | 2 | 7721 |

Station 244

| | | Latitude | | 53.723°S | | Date | | 2/25/93 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 78.536°W | | Bottom Depth | | 4253 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 9.174 | 33.956 | 2 | 1.85 | 2 | 38.9 | 2.8 | 2 | 11621 |
| 1 | 31 | 56 | 8.253 | 34.014 | 2 | 3.27 | 2 | 38.7 | 4.0 | 2 | 11620 |
| 1 | 30 | 106 | 5.812 | 34.096 | 2 | 6.67 | 2 | 27.2 | 3.6 | 2 | 11619 |
| 1 | 74 | 156 | 5.371 | 34.114 | 2 | 6.64 | 2 | 19.2 | 2.8 | 2 | 11618 |
| 1 | 73 | 181 | 5.348 | 34.120 | 2 | 6.62 | 2 | -15.5 | 2.7 | 3 | 11617 |
| 1 | 72 | 206 | 5.401 | 34.151 | 2 | 7.15 | 2 | 17.4 | 3.4 | 2 | 10600 |
| 1 | 71 | 257 | 5.421 | 34.193 | 2 | 7.85 | 2 | 22.8 | 3.1 | 2 | 10599 |
| 1 | 70 | 308 | 5.232 | 34.197 | 2 | 8.74 | 2 | 16.3 | 2.9 | 2 | 10598 |
| 1 | 22 | 358 | 5.245 | 34.221 | 2 | 10.35 | 2 | 9.4 | 3.0 | 2 | 10597 |
| 1 | 28 | 407 | 5.160 | 34.222 | 2 | 10.69 | 2 | 14.3 | 4.5 | 2 | 10596 |
| 1 | 35 | 507 | 5.012 | 34.221 | 2 | 11.40 | 2 | -11.8 | 2.9 | 2 | 10595 |
| 1 | 68 | 605 | 4.722 | 34.214 | 2 | 13.91 | 2 | -5.1 | 2.9 | 2 | 10594 |
| 1 | 18 | 704 | 4.417 | 34.216 | 2 | 17.68 | 2 | -26.6 | 2.8 | 2 | 10593 |
| 1 | 16 | 908 | 3.705 | 34.265 | 2 | 32.62 | 2 | -68.5 | 2.8 | 2 | 10592 |
| 1 | 15 | 1009 | 3.413 | 34.302 | 2 | 40.72 | 2 | -92.6 | 2.7 | 2 | 10591 |
| 1 | 14 | 1210 | 2.987 | 34.417 | 2 | 60.75 | 2 | -128.3 | 2.6 | 2 | 10590 |

Station 248

| | | Latitude | | 53.997°S | | Date | | 2/26/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 81.580°W | | Bottom Depth | | 4683 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 9.161 | 34.049 | 2 | 2.03 | 2 | 39.8 | 3.3 | 2 | 10380 |
| 1 | 32 | 106 | 5.562 | 34.158 | 2 | 7.36 | 2 | 30.7 | 3.5 | 2 | 10379 |
| 1 | 31 | 132 | 5.500 | 34.181 | 2 | 7.35 | 2 | 28.0 | 3.5 | 2 | 10378 |
| 1 | 30 | 156 | 5.443 | 34.188 | 2 | 7.51 | 2 | 31.7 | 3.6 | 2 | 10377 |
| 1 | 29 | 181 | 5.444 | 34.197 | 2 | 7.67 | 2 | 21.1 | 3.1 | 2 | 10321 |
| 1 | 28 | 205 | 5.479 | 34.209 | 2 | 7.66 | 2 | 16.4 | 2.9 | 2 | 10320 |
| 1 | 27 | 255 | 5.411 | 34.205 | 2 | 8.00 | 2 | 20.9 | 3.1 | 2 | 10319 |
| 1 | 26 | 303 | 5.356 | 34.211 | 2 | 8.70 | 2 | 20.6 | 2.9 | 2 | 10318 |
| 1 | 24 | 500 | 4.992 | 34.211 | 2 | 12.44 | 2 | -0.6 | 3.1 | 2 | 10317 |
| 1 | 23 | 600 | 4.827 | 34.218 | 2 | 13.86 | 2 | -11.6 | 2.8 | 2 | 10316 |
| 1 | 22 | 702 | 4.566 | 34.222 | 2 | 17.61 | 2 | -20.5 | 2.9 | 2 | 10315 |
| 1 | 21 | 805 | 4.159 | 34.237 | 2 | 24.42 | 2 | -47.3 | 2.7 | 2 | 10314 |
| 1 | 20 | 906 | 3.735 | 34.269 | 2 | 33.01 | 2 | -80.2 | 2.6 | 2 | 10313 |
| 1 | 19 | 1007 | 3.440 | 34.302 | 2 | 40.52 | 2 | -86.3 | 2.8 | 2 | 10312 |
| 1 | 18 | 1107 | 3.164 | 34.351 | 2 | 49.48 | 2 | -114.5 | 3.7 | 2 | 10493 |
| 1 | 15 | 1713 | 2.461 | 34.590 | 2 | 88.32 | 2 | -149.4 | 2.9 | 2 | 10311 |

Station 253

| | | Latitude | | 54.004°S | | Date | | 2/28/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 85.544°W | | Bottom Depth | | 5045 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 8.878 | 34.093 | 2 | 1.95 | 2 | 44.9 | 4.3 | 2 | 10497 |
| 1 | 33 | 105 | 5.697 | 34.173 | 2 | 6.63 | 2 | 22.9 | 6.3 | 2 | 10496 |
| 1 | 32 | 156 | 5.541 | 34.199 | 2 | 7.35 | 2 | 26.4 | 3.8 | 2 | 10953 |
| 1 | 31 | 206 | 5.533 | 34.210 | 2 | 7.16 | 2 | 22.0 | 3.0 | 2 | 10406 |
| 1 | 30 | 256 | 5.545 | 34.218 | 2 | 7.16 | 2 | 27.3 | 4.3 | 2 | 10405 |
| 1 | 29 | 305 | 5.444 | 34.208 | 2 | 7.33 | 2 | 26.4 | 4.5 | 2 | 10404 |
| 1 | 28 | 356 | 5.412 | 34.215 | 2 | 8.59 | 2 | 18.4 | 4.2 | 2 | 10403 |
| 1 | 27 | 458 | 5.202 | 34.217 | 2 | 10.57 | 2 | 12.0 | 3.8 | 2 | 10402 |
| 1 | 26 | 507 | 5.111 | 34.217 | 2 | 10.93 | 2 | 14.8 | 4.5 | 2 | 10401 |
| 1 | 25 | 558 | 5.057 | 34.226 | 2 | 12.54 | 2 | 13.0 | 6.0 | 2 | 10400 |
| 1 | 24 | 608 | 4.908 | 34.225 | 2 | 14.16 | 2 | -1.7 | 3.4 | 2 | 10391 |
| 1 | 23 | 709 | 4.499 | 34.223 | 2 | 19.20 | 2 | -25.7 | 3.3 | 2 | 10390 |
| 1 | 22 | 810 | 4.176 | 34.247 | 2 | 26.40 | 2 | -52.5 | 5.4 | 2 | 10389 |
| 1 | 21 | 909 | 3.743 | 34.265 | 2 | 32.88 | 2 | -64.7 | 3.2 | 2 | 10388 |
| 1 | 20 | 1010 | 3.451 | 34.295 | 2 | 39.54 | 2 | -82.9 | 3.1 | 2 | 10387 |
| 1 | 19 | 1210 | 3.010 | 34.391 | 2 | 55.76 | 2 | -122.7 | 3.1 | 2 | 10386 |

Station 256

| | | Latitude | | 53.999°S | | Date | | 3/1/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.008°W | | Bottom Depth | | 5045 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 8.546 | 34.166 | 2 | 2.47 | 2 | 13.5 | 3.6 | 2 | 10749 |
| 1 | 33 | 84 | 6.145 | 34.246 | 2 | 6.24 | 2 | 30.8 | 3.0 | 2 | 10748 |
| 1 | 31 | 157 | 6.044 | 34.262 | 2 | 7.13 | 2 | 25.0 | 3.9 | 2 | 10747 |
| 1 | 30 | 200 | 6.020 | 34.269 | 2 | 7.48 | 2 | 23.3 | 3.0 | 2 | 10746 |
| 1 | 28 | 307 | 5.656 | 34.228 | 2 | 7.46 | 2 | 28.5 | 2.9 | 2 | 10742 |
| 1 | 27 | 407 | 5.542 | 34.237 | 2 | 9.62 | 2 | 12.2 | 2.7 | 2 | 10741 |
| 1 | 26 | 506 | 5.277 | 34.230 | 2 | 12.50 | 2 | -3.0 | 2.9 | 2 | 10740 |
| 1 | 25 | 602 | 5.004 | 34.233 | 2 | 14.84 | 2 | -6.3 | 2.9 | 2 | 10739 |
| 1 | 24 | 700 | 4.642 | 34.242 | 2 | 20.24 | 2 | -34.5 | 2.6 | 2 | 8587 |
| 1 | 23 | 801 | 4.183 | 34.261 | 2 | 27.63 | 2 | -41.7 | 4.4 | 2 | 8767 |
| 1 | 21 | 1000 | 3.419 | 34.313 | 2 | 41.87 | 2 | -82.5 | 2.7 | 2 | 8586 |
| 1 | 20 | 1202 | 2.939 | 34.391 | 2 | 56.12 | 2 | -111.4 | 2.7 | 2 | 8585 |
| 1 | 19 | 1405 | 2.671 | 34.482 | 2 | 68.58 | 2 | -138.1 | 2.3 | 2 | 8584 |
| 1 | 18 | 1608 | 2.468 | 34.558 | 2 | 77.26 | 2 | -147.2 | 2.5 | 2 | 8583 |
| 1 | 17 | 1761 | 2.379 | 34.606 | 2 | 81.96 | 2 | -138.2 | 2.4 | 2 | 8766 |
| 1 | 16 | 1915 | 2.283 | 34.645 | 2 | 86.12 | 2 | -149.8 | 5.9 | 2 | 8582 |
| 1 | 15 | 2119 | 2.158 | 34.676 | 2 | 93.57 | 2 | -172.9 | 2.6 | 2 | 8581 |
| 1 | 14 | 2325 | 2.014 | 34.692 | 2 | 101.06 | 2 | -180.2 | 3.2 | 2 | 8580 |
| 1 | 13 | 2528 | 1.907 | 34.706 | 2 | 103.05 | 2 | -173.2 | 2.3 | 2 | 8579 |
| 1 | 12 | 2681 | 1.804 | 34.712 | 2 | 105.24 | 2 | -175.3 | 2.3 | 2 | 8578 |
| 1 | 11 | 2833 | 1.702 | 34.714 | 2 | 108.16 | 2 | -174.4 | 2.3 | 2 | 8577 |
| 1 | 10 | 3038 | 1.608 | 34.719 | 2 | 108.50 | 2 | -171.2 | 2.7 | 2 | 8576 |
| 1 | 9 | 3240 | 1.480 | 34.720 | 2 | 110.51 | 2 | -169.6 | 3.0 | 2 | 8575 |
| 1 | 8 | 3445 | 1.335 | 34.720 | 2 | 113.82 | 2 | -169.8 | 4.5 | 2 | 8574 |

Station 258

| | | Latitude | | 53.000°S | | Date | | 3/1/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.016°W | | Bottom Depth | | 4940 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 8.702 | 34.123 | 2 | 2.17 | 2 | 26.6 | 3.9 | 2 | 10731 |
| 1 | 33 | 93 | 5.770 | 34.194 | 2 | 6.47 | 2 | 21.6 | 3.4 | 2 | 10730 |
| 1 | 31 | 165 | 5.601 | 34.212 | 2 | 7.90 | 2 | 21.2 | 5.1 | 2 | 10729 |
| 1 | 29 | 202 | 5.628 | 34.224 | 2 | 7.73 | 2 | 18.8 | 4.3 | 2 | 10728 |
| 1 | 27 | 292 | 5.545 | 34.222 | 2 | 7.37 | 2 | 30.3 | 4.0 | 2 | 10727 |
| 1 | 26 | 390 | 5.347 | 34.221 | 2 | 9.87 | 2 | 11.1 | 3.8 | 2 | 10726 |
| 1 | 25 | 496 | 5.139 | 34.220 | 2 | 11.66 | 2 | -36.8 | 3.3 | 3 | 10725 |
| 1 | 24 | 583 | 4.945 | 34.250 | 4 | 21.29 | 4 | -28.7 | 3.5 | 2 | 10724 |
| 1 | 23 | 681 | 4.738 | 34.235 | 2 | 18.62 | 2 | -17.2 | 3.3 | 2 | 10723 |
| 1 | 22 | 777 | 4.318 | 34.237 | 2 | 23.25 | 2 | -39.9 | 3.2 | 2 | 10722 |

Station 258 (Continued)

| | | Latitude | | 53.000°S | | | | Date | | 3/1/93 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|--------|-------|
| | | Longitude | | 88.016°W | | | | Bottom Depth | | 4940 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 21 | 873 | 3.845 | 34.238 | 2 | 28.60 | 2 | -49.5 | 3.3 | 2 | 10720 |
| 1 | 20 | 972 | 3.566 | 34.288 | 2 | 37.84 | 2 | -82.7 | 3.1 | 2 | 10719 |
| 1 | 19 | 1169 | 3.070 | 34.376 | 2 | 53.72 | 2 | -106.5 | 3.4 | 2 | 10718 |
| 1 | 18 | 1380 | 2.770 | 34.473 | 2 | 68.18 | 2 | -134.0 | 3.8 | 2 | 10717 |
| 1 | 17 | 1570 | 2.572 | 34.542 | 2 | 77.65 | 2 | -151.0 | 3.7 | 2 | 10716 |
| 1 | 15 | 1945 | 2.291 | 34.635 | 2 | 92.20 | 2 | -170.3 | 3.1 | 2 | 10715 |

Station 261

| | | Latitude | | 52.003°S | | | | Date | | 3/2/93 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|--------|--------------|
| | | Longitude | | 87.994°W | | | | Bottom Depth | | 4750 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 9.153 | 34.135 | 2 | 1.65 | 2 | 30.6 | 3.5 | 2 | 8619 |
| 1 | 32 | 91 | 5.977 | 34.182 | 2 | 5.18 | 2 | 27.8 | 2.8 | 2 | 8618 |
| 1 | 30 | 181 | 5.881 | 34.235 | 2 | 6.56 | 2 | 23.8 | 2.8 | 2 | 8617 |
| 1 | 29 | 232 | 5.815 | 34.244 | 2 | 7.09 | 2 | 31.5 | 3.5 | 2 | 8616 |
| 1 | 28 | 307 | 5.573 | 34.234 | 2 | 8.69 | 2 | 22.2 | 2.8 | 2 | 8615 |
| 1 | 27 | 408 | 5.388 | 34.236 | 2 | 10.29 | 2 | 21.3 | 4.2 | 2 | 8614 |
| 1 | 26 | 508 | 5.179 | 34.232 | 2 | 11.17 | 2 | 7.5 | 4.9 | 2 | 8613 |
| 1 | 25 | 609 | 4.939 | 34.232 | 2 | 13.86 | 2 | -2.4 | 2.9 | 2 | 8612 |
| 1 | 24 | 709 | 4.581 | 34.231 | 2 | 18.34 | 2 | -30.7 | 3.2 | 2 | 8611 |
| 1 | 23 | 810 | 4.235 | 34.247 | 2 | 24.63 | 2 | -52.9 | 3.0 | 2 | 8610 |
| 1 | 22 | 911 | 3.843 | 34.270 | 2 | 31.99 | 2 | -74.1 | 3.2 | 2 | 8609 |
| 1 | 21 | 1012 | 3.547 | 34.304 | 2 | 39.54 | 2 | -88.3 | 3.8 | 2 | 8608 |
| 1 | 20 | 1212 | 3.078 | 34.404 | 2 | 57.37 | 2 | -130.2 | 2.8 | 2 | 8607 |
| 1 | 19 | 1414 | 2.784 | 34.489 | 2 | 71.26 | 2 | -152.0 | 1.9 | 6 | 8606 9237 |
| 1 | 18 | 1616 | 2.589 | 34.558 | 2 | 83.58 | 2 | -171.9 | 3.0 | 2 | 8605 |
| 1 | 17 | 1718 | 2.494 | 34.585 | 2 | 88.11 | 2 | -175.3 | 2.5 | 2 | 8604 |

Station 264

| | | Latitude | | 50.007°S | | | | Date | | 3/3/93 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|--------|------|
| | | Longitude | | 88.007°W | | | | Bottom Depth | | 4625 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 4 | 9.669 | 34.084 | 2 | 2.27 | 2 | 30.4 | 3.1 | 2 | 7086 |
| 2 | 33 | 68 | 8.497 | 34.123 | 2 | 2.79 | 2 | 25.4 | 3.6 | 2 | 7085 |
| 2 | 32 | 82 | 6.768 | 34.112 | 2 | 4.04 | 2 | 23.3 | 3.0 | 2 | 7084 |
| 2 | 31 | 130 | 6.222 | 34.162 | 2 | 5.11 | 2 | 33.9 | 3.1 | 2 | 7083 |

Station 264 (Continued)

| | | Latitude | | 50.007°S | | | | Date | | 3/3/93 | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|--------|--------------|--|
| | | Longitude | | 88.007°W | | | | Bottom Depth | | 4625 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 2 | 30 | 181 | 5.925 | 34.187 | 2 | 5.82 | 2 | 25.7 | 3.2 | 2 | 7082 | |
| 2 | 29 | 231 | 5.854 | 34.236 | 2 | 7.62 | 2 | 22.0 | 3.1 | 2 | 7081 | |
| 2 | 28 | 307 | 5.707 | 34.252 | 2 | 8.69 | 2 | 11.1 | 2.6 | 6 | 7233 7347 | |
| 2 | 27 | 406 | 5.512 | 34.249 | 2 | 9.94 | 2 | 17.0 | 4.1 | 2 | 7080 | |
| 2 | 26 | 500 | 5.302 | 34.244 | 2 | 11.37 | 2 | -0.4 | 2.8 | 2 | 7079 | |
| 2 | 25 | 594 | 5.081 | 34.240 | 2 | 13.17 | 2 | 0.9 | 2.9 | 2 | 7078 | |
| 2 | 24 | 697 | 4.724 | 34.235 | 2 | 17.12 | 2 | -39.5 | 2.9 | 2 | 7077 | |
| 2 | 23 | 802 | 4.322 | 34.250 | 2 | 24.31 | 2 | -59.2 | 3.0 | 2 | 7076 | |
| 2 | 22 | 903 | 3.916 | 34.279 | 2 | 32.58 | 2 | -79.1 | 3.0 | 2 | 7075 | |
| 2 | 21 | 1000 | 3.629 | 34.311 | 2 | 39.77 | 2 | -91.0 | 3.0 | 2 | 7074 | |
| 2 | 6 | 3723 | 1.118 | 34.715 | 2 | 122.33 | 2 | -166.4 | 2.8 | 2 | 7073 | |
| 2 | 4 | 4135 | 0.813 | 34.711 | 2 | 131.99 | 2 | -169.3 | 2.8 | 2 | 7072 | |

Station 267

| | | Latitude | | 48.507°S | | | | Date | | 3/4/93 | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|--------|-------|--|
| | | Longitude | | 87.991°W | | | | Bottom Depth | | 4565 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 36 | 2 | 10.259 | 34.063 | 2 | 2.23 | 2 | 42.2 | 3.2 | 2 | 10681 | |
| 1 | 32 | 108 | 6.382 | 34.148 | 2 | 4.85 | 2 | 31.4 | 4.3 | 2 | 12823 | |
| 1 | 31 | 158 | 5.830 | 34.182 | 2 | 6.43 | 2 | 27.0 | 2.9 | 2 | 10668 | |
| 1 | 30 | 209 | 5.681 | 34.226 | 2 | 8.19 | 2 | 17.1 | 2.9 | 2 | 10667 | |
| 1 | 29 | 259 | 5.578 | 34.235 | 2 | 8.71 | 2 | 17.1 | 3.6 | 2 | 10666 | |
| 1 | 28 | 309 | 5.504 | 34.240 | 2 | 9.23 | 2 | 24.0 | 3.0 | 2 | 10665 | |
| 1 | 27 | 360 | 5.448 | 34.245 | 2 | 10.11 | 2 | 13.8 | 4.0 | 2 | 10664 | |
| 1 | 26 | 409 | 5.359 | 34.244 | 2 | 10.45 | 2 | 15.7 | 3.4 | 2 | 10653 | |
| 1 | 25 | 510 | 5.167 | 34.241 | 2 | 12.03 | 2 | 0.0 | 3.6 | 2 | 10652 | |
| 1 | 24 | 610 | 4.827 | 34.231 | 2 | 15.02 | 2 | -8.0 | 3.8 | 2 | 10651 | |
| 1 | 23 | 710 | 4.563 | 34.238 | 2 | 19.43 | 2 | -30.8 | 3.3 | 2 | 10650 | |
| 1 | 22 | 811 | 4.243 | 34.259 | 2 | 26.30 | 2 | -54.6 | 4.1 | 2 | 10649 | |
| 1 | 21 | 911 | 3.886 | 34.290 | 2 | 34.05 | 2 | -79.0 | 3.0 | 2 | 10654 | |
| 1 | 20 | 1011 | 3.537 | 34.326 | 2 | 42.15 | 2 | -119.8 | 3.0 | 3 | 10648 | |
| 1 | 19 | 1164 | 3.163 | 34.398 | 2 | 55.91 | 2 | -128.2 | 2.9 | 2 | 10647 | |
| 1 | 18 | 1315 | 2.950 | 34.482 | 2 | 72.71 | 2 | -168.6 | 2.4 | 2 | 11648 | |

Station 270

| | | Latitude | | 47.002°S | | Date | | 3/5/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.008°W | | Bottom Depth | | 4025 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 11.029 | 34.034 | 2 | 3.02 | 2 | 42.2 | 5.8 | 2 | 10712 |
| 1 | 33 | 97 | 7.059 | 34.119 | 2 | 4.03 | 2 | 39.6 | 4.7 | 2 | 10711 |
| 1 | 31 | 157 | 6.187 | 34.157 | 2 | 5.22 | 2 | 39.6 | 4.7 | 2 | 10710 |
| 1 | 29 | 219 | 5.827 | 34.215 | 2 | 6.95 | 2 | 31.9 | 4.7 | 2 | 10709 |
| 1 | 28 | 258 | 5.846 | 34.252 | 2 | 8.16 | 2 | 32.9 | 4.8 | 2 | 10708 |
| 1 | 27 | 308 | 5.747 | 34.261 | 2 | 8.85 | 2 | 24.7 | 6.1 | 2 | 10707 |
| 1 | 26 | 408 | 5.561 | 34.258 | 2 | 9.88 | 2 | 20.1 | 4.8 | 2 | 10698 |
| 1 | 25 | 508 | 5.311 | 34.248 | 2 | 11.63 | 2 | 3.6 | 6.1 | 2 | 10697 |
| 1 | 24 | 607 | 5.004 | 34.239 | 2 | 13.54 | 2 | -5.9 | 5.1 | 2 | 10696 |
| 1 | 23 | 708 | 4.692 | 34.240 | 2 | 18.10 | 2 | -32.9 | 4.7 | 2 | 10695 |
| 1 | 22 | 809 | 4.336 | 34.254 | 2 | 24.42 | 2 | -60.9 | 4.8 | 2 | 10694 |
| 1 | 21 | 910 | 3.992 | 34.289 | 2 | 32.85 | 2 | -72.8 | 2.9 | 2 | 13248 |
| 1 | 20 | 1011 | 3.605 | 34.326 | 2 | 41.63 | 2 | -98.1 | 6.0 | 2 | 10692 |
| 1 | 19 | 1111 | 3.321 | 34.377 | 2 | 51.83 | 2 | -116.7 | 3.2 | 2 | 11230 |
| 1 | 18 | 1212 | 3.137 | 34.425 | 2 | 60.98 | 2 | -142.8 | 2.6 | 2 | 13209 |
| 1 | 17 | 1363 | 2.907 | 34.488 | 2 | 73.34 | 2 | -182.6 | 7.1 | 2 | 10690 |

Station 274

| | | Latitude | | 45.015°S | | Date | | 3/6/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 88.003°W | | Bottom Depth | | 4020 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 4 | 12.363 | 33.984 | 2 | 2.49 | 2 | 60.4 | 3.2 | 2 | 7105 |
| 2 | 68 | 55 | 11.646 | 33.990 | 2 | 2.47 | 2 | 48.9 | 3.0 | 2 | 7106 |
| 2 | 33 | 80 | 9.200 | 34.043 | 2 | 2.81 | 2 | 45.6 | 4.4 | 2 | 7104 |
| 2 | 32 | 105 | 7.612 | 34.095 | 2 | 3.14 | 2 | 44.9 | 4.5 | 2 | 7103 |
| 2 | 31 | 156 | 6.726 | 34.152 | 2 | 4.53 | 2 | 34.0 | 3.0 | 2 | 7102 |
| 2 | 29 | 201 | 6.220 | 34.230 | 2 | 6.62 | 2 | 27.4 | 2.9 | 2 | 7101 |
| 2 | 27 | 295 | 5.937 | 34.275 | 2 | 8.34 | 2 | 28.5 | 3.6 | 2 | 7100 |
| 2 | 26 | 344 | 5.822 | 34.273 | 2 | 9.03 | 2 | 22.6 | 3.2 | 2 | 7099 |
| 2 | 25 | 392 | 5.732 | 34.274 | 2 | 9.54 | 2 | 20.0 | 3.0 | 2 | 7098 |
| 2 | 24 | 490 | 5.475 | 34.260 | 2 | 10.57 | 2 | 8.3 | 3.8 | 2 | 7097 |
| 2 | 23 | 587 | 5.227 | 34.255 | 2 | 12.84 | 2 | -6.9 | 3.0 | 2 | 7096 |
| 2 | 22 | 688 | 4.913 | 34.254 | 2 | 16.70 | 2 | -37.5 | 2.8 | 2 | 7095 |
| 2 | 21 | 788 | 4.518 | 34.267 | 2 | 23.72 | 2 | -64.1 | 3.5 | 2 | 7094 |
| 2 | 20 | 888 | 4.130 | 34.291 | 2 | 31.27 | 2 | -110.1 | 4.0 | 3 | 7093 |
| 2 | 19 | 988 | 3.729 | 34.327 | 2 | 40.40 | 2 | -108.2 | 2.7 | 2 | 7092 |

Station 278

| | | Latitude | | 43.007°S | | Date | | 3/7/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.006°W | | Bottom Depth | | 3718 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 13.372 | 33.954 | 2 | 2.38 | 2 | 45.4 | 4.6 | 2 | 7948 |
| 1 | 31 | 128 | 7.873 | 34.030 | 2 | 3.20 | 2 | 48.4 | 4.5 | 2 | 7949 |
| 1 | 29 | 175 | 7.117 | 34.123 | 2 | 4.78 | 2 | 51.6 | 10.0 | 2 | 12586 |
| 1 | 28 | 199 | 6.809 | 34.171 | 2 | 5.65 | 2 | 48.3 | 3.8 | 2 | 13061 |
| 1 | 26 | 292 | 6.113 | 34.247 | 2 | 7.94 | 2 | 29.9 | 3.8 | 2 | 7963 |
| 1 | 25 | 342 | 5.930 | 34.268 | 2 | 8.46 | 2 | 30.7 | 4.8 | 2 | 7964 |
| 1 | 24 | 389 | 5.786 | 34.269 | 2 | 9.34 | 2 | 29.6 | 3.4 | 2 | 7965 |
| 1 | 23 | 482 | 5.568 | 34.265 | 2 | 10.39 | 2 | 17.2 | 3.5 | 2 | 7954 |
| 1 | 22 | 576 | 5.296 | 34.254 | 2 | 11.98 | 2 | -5.8 | 4.5 | 2 | 11989 |
| 1 | 21 | 670 | 4.999 | 34.248 | 2 | 15.00 | 2 | -14.3 | 3.8 | 2 | 7958 |
| 1 | 20 | 763 | 4.629 | 34.249 | 2 | 20.33 | 2 | -44.6 | 3.9 | 2 | 7959 |
| 1 | 19 | 855 | 4.305 | 34.274 | 2 | 27.44 | 2 | -70.0 | 4.5 | 2 | 7960 |
| 1 | 18 | 949 | 3.904 | 34.307 | 2 | 36.33 | 2 | -102.2 | 5.0 | 2 | 7950 |
| 1 | 17 | 1096 | 3.461 | 34.367 | 2 | 49.86 | 2 | -121.8 | 3.8 | 2 | 7951 |
| 1 | 16 | 1246 | 3.178 | 34.442 | 2 | 65.36 | 2 | -156.7 | 3.3 | 2 | 7952 |
| 1 | 15 | 1392 | 2.975 | 34.505 | 2 | 79.48 | 2 | -173.7 | 7.2 | 2 | 7953 |

Station 281

| | | Latitude | | 41.516°S | | Date | | 3/8/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.008°W | | Bottom Depth | | 4201 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 3 | 14.693 | 33.933 | 2 | 1.83 | 2 | 80.4 | 3.2 | 2 | 10682 |
| 2 | 32 | 107 | 9.477 | 34.038 | 2 | 1.95 | 2 | 39.3 | 3.3 | 2 | 10679 |
| 2 | 28 | 208 | 7.049 | 34.180 | 2 | 4.89 | 2 | 42.2 | 3.8 | 2 | 10678 |
| 2 | 27 | 258 | 6.473 | 34.231 | 2 | 6.64 | 2 | 37.6 | 4.5 | 2 | 10677 |
| 2 | 26 | 308 | 6.174 | 34.270 | 2 | 7.68 | 2 | 40.1 | 3.1 | 2 | 10676 |
| 2 | 25 | 357 | 6.049 | 34.283 | 2 | 8.55 | 2 | 32.5 | 3.6 | 2 | 10675 |
| 2 | 24 | 408 | 5.816 | 34.274 | 2 | 8.89 | 2 | 32.0 | 3.2 | 2 | 10674 |
| 2 | 23 | 509 | 5.507 | 34.263 | 2 | 10.46 | 2 | 20.6 | 2.9 | 2 | 10673 |
| 2 | 22 | 609 | 5.252 | 34.254 | 2 | 12.03 | 2 | 9.3 | 3.5 | 2 | 10671 |
| 2 | 21 | 709 | 4.879 | 34.249 | 2 | 16.60 | 2 | -23.0 | 2.9 | 2 | 10670 |
| 2 | 20 | 811 | 4.480 | 34.261 | 2 | 23.46 | 2 | -58.2 | 2.7 | 2 | 10669 |
| 2 | 19 | 910 | 4.045 | 34.294 | 2 | 32.79 | 2 | -86.7 | 3.1 | 2 | 11647 |
| 2 | 18 | 1011 | 3.642 | 34.340 | 2 | 43.71 | 2 | -111.0 | 2.4 | 2 | 11646 |
| 2 | 17 | 1160 | 3.278 | 34.413 | 2 | 59.23 | 2 | -142.5 | 3.2 | 2 | 11645 |
| 2 | 16 | 1310 | 3.047 | 34.486 | 2 | 75.14 | 2 | -170.0 | 3.1 | 2 | 11644 |
| 2 | 15 | 1461 | 2.869 | 34.487 | 4 | 87.94 | 2 | -186.8 | 2.2 | 2 | 11643 |

Station 284

| | | Latitude | | 40.008°S | | Date | | 3/9/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.002°W | | Bottom Depth | | 4132 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 16.039 | 34.701 | 4 | 1.96 | 2 | 87.7 | 3.3 | 2 | 7036 |
| 2 | 32 | 108 | 10.005 | 33.993 | 2 | 2.24 | 2 | 76.8 | 3.7 | 2 | 7035 |
| 2 | 31 | 133 | 9.443 | 34.035 | 2 | 2.57 | 2 | 74.4 | 3.2 | 2 | 7034 |
| 2 | 30 | 156 | 8.994 | 34.078 | 2 | 2.90 | 2 | 72.1 | 3.8 | 2 | 7033 |
| 2 | 29 | 180 | 8.430 | 34.138 | 2 | 3.24 | 2 | 73.5 | 4.9 | 2 | 7032 |
| 2 | 28 | 204 | 7.775 | 34.166 | 2 | 4.44 | 2 | 64.5 | 5.2 | 2 | 7031 |
| 2 | 27 | 252 | 6.803 | 34.194 | 2 | 5.83 | 2 | 48.0 | 3.2 | 2 | 7030 |
| 2 | 26 | 303 | 6.500 | 34.266 | 2 | 8.08 | 2 | 34.8 | 3.0 | 2 | 7029 |
| 2 | 25 | 352 | 6.126 | 34.270 | 2 | 8.41 | 2 | 25.4 | 3.3 | 2 | 7028 |
| 2 | 24 | 400 | 5.947 | 34.275 | 2 | 8.57 | 2 | 26.5 | 2.9 | 2 | 13211 |
| 2 | 23 | 494 | 5.664 | 34.269 | 2 | 10.12 | 2 | 7.2 | 5.8 | 2 | 6899 |
| 2 | 22 | 591 | 5.369 | 34.258 | 2 | 11.68 | 2 | 7.0 | 4.8 | 2 | 6898 |
| 2 | 21 | 692 | 5.033 | 34.248 | 2 | 14.45 | 2 | -11.4 | 3.9 | 2 | 6897 |
| 2 | 20 | 791 | 4.652 | 34.252 | 2 | 20.38 | 2 | -29.5 | 3.7 | 2 | 6896 |
| 2 | 19 | 894 | 4.214 | 34.276 | 2 | 28.74 | 2 | -60.0 | 3.4 | 2 | 6895 |
| 2 | 18 | 996 | 3.760 | 34.324 | 2 | 39.91 | 2 | -92.2 | 3.3 | 2 | 6894 |

Station 287

| | | Latitude | | 38.502°S | | Date | | 3/10/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.002°W | | Bottom Depth | | 3777 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 17.307 | 33.968 | 2 | 2.20 | 2 | 80.2 | 4.7 | 2 | 11616 |
| 1 | 32 | 106 | 12.047 | 34.032 | 2 | 1.92 | 2 | 81.0 | 2.8 | 2 | 11615 |
| 1 | 28 | 205 | 9.358 | 34.151 | 2 | 2.67 | 2 | 72.6 | 5.2 | 2 | 11614 |
| 1 | 26 | 307 | 7.051 | 34.250 | 2 | 6.43 | 2 | 31.7 | 3.2 | 2 | 11613 |
| 1 | 24 | 406 | 6.233 | 34.285 | 2 | 9.15 | 2 | 21.7 | 3.8 | 2 | 11612 |
| 1 | 23 | 505 | 5.790 | 34.278 | 2 | 9.82 | 2 | 4.6 | 2.7 | 2 | 11611 |
| 1 | 22 | 606 | 5.434 | 34.262 | 2 | 11.18 | 2 | -7.5 | 2.7 | 2 | 11610 |
| 1 | 21 | 705 | 5.141 | 34.252 | 2 | 13.41 | 2 | -44.1 | 3.9 | 2 | 11609 |
| 1 | 20 | 806 | 4.700 | 34.253 | 2 | 19.45 | 2 | -73.2 | 4.5 | 2 | 11608 |
| 1 | 19 | 906 | 4.278 | 34.276 | 2 | 27.93 | 2 | -72.0 | 2.8 | 2 | 10601 |
| 1 | 18 | 1006 | 3.888 | 34.319 | 2 | 38.49 | 2 | -101.4 | 2.8 | 2 | 10584 |
| 1 | 17 | 1155 | 3.434 | 34.408 | 2 | 58.27 | 2 | -141.7 | 2.6 | 2 | 10583 |
| 1 | 16 | 1305 | 3.139 | 34.481 | 2 | 74.97 | 2 | -166.0 | 2.5 | 2 | 10582 |
| 1 | 15 | 1453 | 2.924 | 34.533 | 2 | 87.21 | 2 | -220.8 | 2.3 | 3 | 10581 |
| 1 | 14 | 1603 | 2.711 | 34.572 | 2 | 97.07 | 2 | -198.5 | 4.4 | 2 | 10580 |
| 1 | 13 | 1754 | 2.510 | 34.599 | 2 | 104.50 | 2 | -208.8 | 2.5 | 2 | 10579 |

Station 291

| | | Latitude | | 36.504°S | | Date | | 3/10/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 88.001°W | | Bottom Depth | | 4225 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 19.030 | 34.104 | 2 | 1.21 | 2 | 93.5 | 4.2 | 2 | 7629 |
| 1 | 32 | 106 | 12.127 | 34.025 | 2 | 1.12 | 2 | 66.1 | 5.2 | 2 | 7627 |
| 1 | 29 | 206 | 9.458 | 34.141 | 2 | 2.79 | 2 | 77.4 | 5.8 | 2 | 7628 |
| 1 | 28 | 257 | 8.043 | 34.208 | 2 | 5.72 | 2 | 53.5 | 3.3 | 2 | 7626 |
| 1 | 27 | 307 | 7.220 | 34.257 | 2 | 8.30 | 2 | 28.2 | 4.8 | 2 | 7625 |
| 1 | 25 | 407 | 6.196 | 34.289 | 2 | 9.64 | 2 | 17.1 | 4.9 | 2 | 7624 |
| 1 | 24 | 506 | 5.785 | 34.282 | 2 | 9.62 | 2 | 13.1 | 5.5 | 2 | 7623 |
| 1 | 23 | 605 | 5.402 | 34.263 | 2 | 11.50 | 2 | -10.6 | 4.6 | 2 | 7729 |
| 1 | 22 | 704 | 5.013 | 34.252 | 2 | 14.95 | 2 | -13.0 | 4.7 | 2 | 7728 |
| 1 | 21 | 803 | 4.637 | 34.257 | 2 | 20.99 | 2 | -49.3 | 3.1 | 2 | 7727 |
| 1 | 20 | 903 | 4.195 | 34.283 | 2 | 30.34 | 2 | -84.1 | 3.5 | 2 | 7726 |
| 1 | 19 | 1004 | 3.731 | 34.340 | 2 | 43.84 | 2 | -120.4 | 1.9 | 2 | 7725 |
| 1 | 18 | 1153 | 3.312 | 34.429 | 2 | 63.27 | 2 | -169.0 | 2.8 | 2 | 7640 |
| 1 | 17 | 1304 | 3.090 | 34.501 | 2 | 80.34 | 2 | -176.0 | 3.4 | 2 | 9446 |
| 1 | 16 | 1506 | 2.832 | 34.557 | 2 | 94.55 | 2 | -197.5 | 2.8 | 2 | 9445 |

Station 295

| | | Latitude | | 34.499°S | | Date | | 3/12/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 87.995°W | | Bottom Depth | | 3949 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 20.504 | 34.180 | 2 | 1.57 | 2 | 113.5 | 3.3 | 2 | 10567 |
| 1 | 30 | 107 | 13.856 | 34.229 | 2 | 1.32 | 2 | 103.9 | 4.5 | 2 | 10566 |
| 1 | 27 | 167 | 12.190 | 34.197 | 2 | 1.46 | 2 | 93.5 | 3.0 | 2 | 10565 |
| 1 | 26 | 208 | 11.096 | 34.217 | 2 | 1.61 | 2 | 94.0 | 4.2 | 2 | 10564 |
| 1 | 25 | 268 | 9.071 | 34.234 | 2 | 5.06 | 2 | 68.5 | 3.7 | 2 | 10512 |
| 1 | 24 | 339 | 7.333 | 34.280 | 2 | 8.50 | 2 | 37.4 | 5.2 | 2 | 10511 |
| 1 | 23 | 409 | 6.446 | 34.292 | 2 | 9.00 | 2 | 23.7 | 3.5 | 2 | 10510 |
| 1 | 22 | 508 | 5.888 | 34.287 | 2 | 10.02 | 2 | 24.6 | 3.1 | 2 | 10509 |
| 1 | 21 | 609 | 5.454 | 34.265 | 2 | 11.73 | 2 | 8.1 | 3.5 | 2 | 10508 |
| 1 | 20 | 710 | 5.001 | 34.252 | 2 | 15.52 | 2 | -19.2 | 4.1 | 2 | 10504 |
| 1 | 19 | 811 | 4.613 | 34.261 | 2 | 22.25 | 2 | -50.0 | 3.1 | 2 | 10503 |
| 1 | 18 | 912 | 4.102 | 34.299 | 2 | 33.83 | 2 | -94.4 | 6.2 | 2 | 10502 |
| 1 | 17 | 1013 | 3.746 | 34.344 | 2 | 44.71 | 2 | -121.5 | 3.5 | 2 | 10501 |
| 1 | 16 | 1164 | 3.401 | 34.437 | 2 | 65.32 | 2 | -148.7 | 5.7 | 2 | 10500 |
| 1 | 15 | 1315 | 3.176 | 34.521 | 2 | 85.69 | 2 | -180.5 | 2.8 | 2 | 10499 |
| 1 | 14 | 1468 | 2.938 | 34.559 | 2 | 95.14 | 2 | -189.1 | 4.2 | 2 | 10498 |

Station 299

| | | Latitude | | 32.503°S | | Date | | 3/13/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|---------------|
| | | Longitude | | 87.994°W | | Bottom Depth | | 3737 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 22.638 | 34.788 | 2 | 0.86 | 2 | 120.2 | 3.5 | 6 | 12585 7222 |
| 2 | 30 | 108 | 15.089 | 34.455 | 2 | 0.86 | 2 | 119.6 | 4.4 | 2 | 7766 |
| 2 | 28 | 137 | 14.182 | 34.340 | 2 | 0.86 | 2 | 111.2 | 3.4 | 2 | 7765 |
| 2 | 27 | 177 | 13.005 | 34.197 | 2 | 0.86 | 2 | 91.7 | 5.1 | 2 | 7221 |
| 2 | 26 | 217 | 11.974 | 34.161 | 2 | 1.21 | 2 | 96.7 | 4.0 | 2 | 7220 |
| 2 | 25 | 258 | 10.793 | 34.231 | 2 | 2.41 | 2 | 80.7 | 4.4 | 2 | 7219 |
| 2 | 24 | 307 | 9.457 | 34.306 | 2 | 9.31 | 2 | 45.8 | 3.2 | 2 | 7218 |
| 2 | 23 | 359 | 8.415 | 34.368 | 2 | 14.31 | 2 | 12.6 | 3.0 | 2 | 7217 |
| 2 | 22 | 409 | 7.542 | 34.371 | 2 | 16.21 | 2 | -7.6 | 2.9 | 2 | 7216 |
| 2 | 21 | 508 | 6.141 | 34.303 | 2 | 11.38 | 2 | -1.9 | 3.6 | 2 | 7488 |
| 2 | 20 | 609 | 5.556 | 34.276 | 2 | 12.58 | 2 | -8.8 | 3.0 | 2 | 7215 |
| 2 | 19 | 710 | 5.155 | 34.262 | 2 | 15.17 | 2 | -20.9 | 2.5 | 2 | 7214 |
| 2 | 18 | 811 | 4.696 | 34.271 | 2 | 22.93 | 2 | -66.9 | 2.4 | 2 | 7213 |
| 2 | 17 | 912 | 4.214 | 34.315 | 2 | 35.51 | 2 | -104.9 | 3.0 | 2 | 7212 |
| 2 | 16 | 1013 | 3.811 | 34.380 | 2 | 51.20 | 2 | -139.3 | 2.6 | 2 | 7211 |

Station 303

| | | Latitude | | 30.499°S | | Date | | 3/14/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 87.992°W | | Bottom Depth | | 3706 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 23.435 | 35.093 | 2 | 1.83 | 2 | 114.3 | 3.5 | 2 | 10767 |
| 1 | 30 | 105 | 16.794 | 34.820 | 2 | 1.46 | 2 | 134.4 | 3.1 | 2 | 10762 |
| 1 | 27 | 176 | 14.678 | 34.497 | 2 | 1.37 | 2 | 123.5 | 4.6 | 2 | 10761 |
| 1 | 26 | 216 | 13.386 | 34.358 | 2 | 1.53 | 2 | 117.1 | 2.9 | 2 | 10760 |
| 1 | 25 | 256 | 11.379 | 34.237 | 2 | 3.31 | 2 | 93.5 | 3.0 | 2 | 10759 |
| 1 | 24 | 306 | 10.064 | 34.333 | 2 | 8.91 | 2 | 61.5 | 4.5 | 2 | 10758 |
| 1 | 23 | 357 | 9.004 | 34.425 | 2 | 16.74 | 2 | 0.8 | 3.0 | 2 | 10757 |
| 1 | 22 | 407 | 8.102 | 34.416 | 2 | 18.31 | 2 | -14.0 | 1.8 | 6 | 10756 10983 |
| 1 | 21 | 508 | 6.521 | 34.342 | 2 | 16.25 | 2 | -15.4 | 4.0 | 2 | 10755 |
| 1 | 20 | 608 | 5.624 | 34.290 | 2 | 14.59 | 2 | -12.5 | 2.7 | 2 | 10754 |
| 1 | 19 | 709 | 4.984 | 34.270 | 2 | 19.19 | 2 | -82.9 | 3.0 | 3 | 10753 |
| 1 | 18 | 809 | 4.486 | 34.290 | 2 | 29.04 | 2 | -81.3 | 2.6 | 2 | 10745 |
| 1 | 17 | 910 | 4.062 | 34.365 | 2 | 46.15 | 2 | -121.9 | 2.8 | 2 | 10744 |
| 1 | 16 | 1010 | 3.689 | 34.432 | 2 | 63.68 | 2 | -141.4 | 3.5 | 2 | 11231 |
| 1 | 15 | 1161 | 3.445 | 34.477 | 2 | 75.17 | 2 | -164.5 | 2.8 | 2 | 10743 |
| 1 | 14 | 1311 | 3.215 | 34.510 | 2 | 83.44 | 2 | -186.1 | 2.6 | 2 | 10732 |

Station 307

| | | Latitude | | | | 28.499°S | | | | Date | | 3/14/93 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|-------|---------|--|
| | | Longitude | | | | 88.001°W | | | | Bottom Depth | | 2920 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 36 | 3 | 23.703 | 35.445 | 2 | 1.70 | 2 | 105.9 | 3.2 | 2 | 10578 | | |
| 1 | 30 | 106 | 17.633 | 34.999 | 2 | 1.22 | 2 | 118.4 | 4.5 | 2 | 10577 | | |
| 1 | 27 | 155 | 16.059 | 34.738 | 2 | 1.18 | 2 | 112.8 | 3.8 | 2 | 10563 | | |
| 1 | 25 | 206 | 14.493 | 34.509 | 2 | 1.15 | 2 | 114.8 | 3.8 | 2 | 10562 | | |
| 1 | 23 | 267 | 11.701 | 34.349 | 2 | 2.97 | 2 | 91.6 | 3.6 | 2 | 10561 | | |
| 1 | 22 | 306 | 10.380 | 34.331 | 2 | 7.08 | 2 | 61.0 | 6.0 | 2 | 10519 | | |
| 1 | 21 | 357 | 9.013 | 34.416 | 2 | 16.13 | 2 | -4.6 | 5.4 | 2 | 10518 | | |
| 1 | 20 | 407 | 8.025 | 34.404 | 2 | 17.35 | 2 | -13.9 | 5.4 | 2 | 10517 | | |
| 1 | 19 | 508 | 6.568 | 34.343 | 2 | 15.68 | 2 | -24.2 | 4.9 | 2 | 10516 | | |
| 1 | 18 | 608 | 5.739 | 34.343 | 4 | 15.04 | 2 | -23.0 | 3.9 | 2 | 10515 | | |
| 1 | 17 | 709 | 5.213 | 34.286 | 2 | 19.34 | 2 | -38.6 | 3.9 | 2 | 10514 | | |
| 1 | 16 | 809 | 4.667 | 34.310 | 2 | 30.45 | 2 | -80.3 | 3.2 | 2 | 10513 | | |
| 1 | 15 | 911 | 4.209 | 34.373 | 2 | 47.52 | 2 | -124.8 | 2.8 | 2 | 10764 | | |
| 1 | 14 | 1011 | 3.884 | 34.435 | 2 | 62.54 | 2 | -156.2 | 4.0 | 2 | 10763 | | |
| 1 | 13 | 1162 | 3.515 | 34.506 | 2 | 80.88 | 2 | -175.1 | 2.8 | 2 | 10507 | | |

Station 311

| | | Latitude | | | | 26.504°S | | | | Date | | 3/15/93 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|------|---------|--|
| | | Longitude | | | | 88.337°W | | | | Bottom Depth | | 3367 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 36 | 3 | 23.293 | 35.421 | 2 | 1.86 | 2 | 133.7 | 4.2 | 2 | 8502 | | |
| 1 | 30 | 105 | 17.731 | 35.045 | 2 | 1.24 | 2 | 114.2 | 4.7 | 2 | 8501 | | |
| 1 | 27 | 155 | 16.753 | 34.906 | 2 | 1.24 | 2 | 122.2 | 7.1 | 2 | 8500 | | |
| 1 | 25 | 205 | 15.199 | 34.648 | 2 | 1.24 | 2 | 123.0 | 4.3 | 2 | 8499 | | |
| 1 | 24 | 255 | 12.554 | 34.336 | 2 | 2.06 | 2 | 128.1 | 3.8 | 2 | 8498 | | |
| 1 | 23 | 306 | 10.641 | 34.339 | 2 | 7.62 | 2 | 83.7 | 4.3 | 2 | 8497 | | |
| 1 | 22 | 355 | 9.538 | 34.471 | 2 | 18.33 | 2 | -2.0 | 4.2 | 2 | 8496 | | |
| 1 | 21 | 405 | 8.320 | 34.453 | 2 | 20.60 | 2 | -31.7 | 3.4 | 2 | 8768 | | |
| 1 | 20 | 505 | 6.801 | 34.390 | 2 | 20.59 | 2 | -44.6 | 3.7 | 2 | 8495 | | |
| 1 | 19 | 604 | 5.907 | 34.351 | 2 | 22.65 | 2 | -34.2 | 2.8 | 2 | 8913 | | |
| 1 | 18 | 704 | 5.356 | 34.362 | 2 | 31.70 | 2 | -76.0 | 4.2 | 2 | 8912 | | |
| 1 | 17 | 803 | 4.964 | 34.403 | 2 | 44.67 | 2 | -106.9 | 2.7 | 2 | 8911 | | |
| 1 | 16 | 903 | 4.523 | 34.444 | 2 | 58.46 | 2 | -143.1 | 3.6 | 2 | 8910 | | |
| 1 | 15 | 1003 | 4.144 | 34.476 | 2 | 69.16 | 2 | -168.1 | 5.3 | 6 | 8812 | | |
| 1 | 14 | 1153 | 3.720 | 34.511 | 2 | 80.30 | 2 | -178.7 | 4.1 | 2 | 8909 | | |
| 1 | 13 | 1303 | 3.351 | 34.536 | 2 | 88.14 | 2 | -186.4 | 2.2 | 2 | 8908 | | |

Station 317

| | | Latitude | | 24.330°S | | Date | | 3/17/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 88.004°W | | Bottom Depth | | 4135 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 23.642 | 35.699 | 2 | 1.68 | 2 | 119.4 | 5.9 | 2 | 7242 |
| 2 | 35 | 37 | 23.143 | 35.675 | 2 | 1.67 | 2 | 114.9 | 4.4 | 2 | 7244 |
| 2 | 68 | 67 | 19.312 | 35.170 | 2 | 1.44 | 2 | 117.8 | 3.6 | 2 | 7243 |
| 2 | 32 | 107 | 18.394 | 35.190 | 2 | 1.43 | 2 | 127.1 | 3.3 | 2 | 7241 |
| 2 | 30 | 147 | 17.253 | 35.042 | 2 | 1.41 | 2 | 117.4 | 3.4 | 2 | 7486 |
| 2 | 28 | 197 | 14.873 | 34.641 | 2 | 1.60 | 2 | 110.7 | 3.6 | 2 | 7240 |
| 2 | 27 | 258 | 11.943 | 34.395 | 2 | 5.06 | 2 | 85.2 | 5.5 | 2 | 7239 |
| 2 | 26 | 307 | 10.052 | 34.458 | 2 | 15.48 | 2 | 14.6 | 6.1 | 2 | 7238 |
| 2 | 25 | 408 | 7.981 | 34.438 | 2 | 20.37 | 2 | -39.8 | 3.6 | 2 | 7237 |
| 2 | 24 | 509 | 6.572 | 34.380 | 2 | 21.38 | 2 | -41.8 | 3.4 | 2 | 7236 |
| 2 | 23 | 609 | 5.705 | 34.350 | 2 | 25.45 | 2 | -74.5 | 4.7 | 2 | 7235 |
| 2 | 22 | 709 | 5.226 | 34.371 | 2 | 35.26 | 2 | -111.1 | 2.5 | 6 | 7234 |
| | | | | | | | | | | | 7483 |
| 2 | 21 | 809 | 4.786 | 34.410 | 2 | 48.13 | 2 | -136.4 | 3.3 | 2 | 7226 |
| 2 | 20 | 910 | 4.371 | 34.449 | 2 | 60.61 | 2 | -163.3 | 2.7 | 2 | 7225 |
| 2 | 19 | 1011 | 4.022 | 34.490 | 2 | 72.49 | 2 | -174.6 | 3.2 | 2 | 7224 |
| 2 | 18 | 1213 | 3.526 | 34.531 | 2 | 85.83 | 2 | -196.2 | 2.6 | 2 | 7223 |

Station 322

| | | Latitude | | 21.999°S | | Date | | 3/18/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 88.004°W | | Bottom Depth | | 4108 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 23.137 | 35.648 | 2 | 1.69 | 2 | 120.1 | 4.0 | 2 | 7981 |
| 1 | 33 | 83 | 19.148 | 35.341 | 2 | 1.64 | 2 | 118.2 | 4.3 | 2 | 7980 |
| 1 | 32 | 109 | 18.461 | 35.281 | 2 | 1.62 | 2 | 120.8 | 3.9 | 2 | 7979 |
| 1 | 29 | 210 | 13.604 | 34.570 | 2 | 3.82 | 2 | 85.5 | 3.1 | 2 | 8126 |
| 1 | 27 | 289 | 10.955 | 34.585 | 2 | 20.92 | 2 | -10.8 | 4.6 | 2 | 12824 |
| 1 | 26 | 359 | 9.467 | 34.569 | 2 | 25.39 | 2 | -45.7 | 4.0 | 2 | 12588 |
| 1 | 25 | 409 | 8.240 | 34.512 | 2 | 26.39 | 2 | -62.6 | 4.7 | 2 | 7997 |
| 1 | 24 | 508 | 6.815 | 34.436 | 2 | 27.18 | 2 | -76.6 | 4.9 | 2 | 7996 |
| 1 | 23 | 606 | 6.006 | 34.425 | 2 | 33.89 | 2 | -96.6 | 3.7 | 2 | 7995 |
| 1 | 22 | 705 | 5.483 | 34.443 | 2 | 45.08 | 2 | -134.9 | 4.3 | 2 | 7994 |
| 1 | 21 | 805 | 5.019 | 34.456 | 2 | 54.23 | 2 | -140.5 | 3.2 | 2 | 7993 |
| 1 | 20 | 907 | 4.632 | 34.486 | 2 | 66.04 | 2 | -166.2 | 3.5 | 2 | 7992 |
| 1 | 19 | 1005 | 4.265 | 34.504 | 2 | 73.97 | 2 | -173.9 | 4.6 | 2 | 7991 |
| 1 | 18 | 1154 | 3.737 | 34.527 | 2 | 84.37 | 2 | -182.2 | 3.0 | 2 | 7990 |
| 1 | 17 | 1305 | 3.359 | 34.553 | 2 | 92.95 | 2 | -194.7 | 4.5 | 2 | 7989 |
| 1 | 16 | 1453 | 3.006 | 34.574 | 2 | 100.93 | 2 | -224.3 | 5.2 | 2 | 7988 |

Station 326

| | | Latitude | | 19.996°S | | Date | | 3/19/93 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|------|
| | | Longitude | | 88.431°W | | Bottom Depth | | 4310 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 23.028 | 35.587 | 2 | 1.86 | 2 | 114.3 | 3.1 | 2 | 7259 |
| 2 | 32 | 107 | 18.144 | 35.238 | 2 | 1.36 | 2 | 106.8 | 4.2 | 2 | 7257 |
| 2 | 31 | 147 | 17.883 | 35.254 | 2 | 1.34 | 2 | 117.2 | 3.6 | 2 | 7256 |
| 2 | 30 | 183 | 15.722 | 34.853 | 2 | 1.94 | 2 | 105.1 | 3.4 | 2 | 7255 |
| 2 | 29 | 208 | 13.575 | 34.543 | 2 | 3.96 | 2 | 98.9 | 3.9 | 2 | 7254 |
| 2 | 28 | 258 | 11.077 | 34.519 | 2 | 16.41 | 2 | 19.0 | 2.9 | 2 | 7253 |
| 2 | 27 | 332 | 9.617 | 34.549 | 2 | 23.14 | 2 | -40.7 | 4.3 | 2 | 7487 |
| 2 | 26 | 434 | 7.558 | 34.459 | 2 | 24.34 | 2 | -70.2 | 2.7 | 2 | 7252 |
| 2 | 25 | 534 | 6.448 | 34.435 | 2 | 30.25 | 2 | -105.8 | 3.8 | 2 | 7251 |
| 2 | 24 | 634 | 5.875 | 34.452 | 2 | 40.04 | 2 | -127.3 | 2.9 | 2 | 7250 |
| 2 | 23 | 735 | 5.324 | 34.479 | 2 | 55.36 | 2 | -151.4 | 5.2 | 2 | 7768 |
| 2 | 22 | 835 | 4.873 | 34.490 | 2 | 64.13 | 2 | -144.4 | 3.7 | 2 | 7249 |
| 2 | 21 | 936 | 4.433 | 34.502 | 2 | 72.51 | 2 | -157.1 | 4.8 | 2 | 7248 |
| 2 | 20 | 1036 | 4.084 | 34.517 | 2 | 80.28 | 2 | -160.3 | 3.8 | 2 | 7247 |
| 2 | 19 | 1161 | 3.665 | 34.538 | 2 | 88.48 | 2 | -176.6 | 4.0 | 2 | 7246 |
| 2 | 18 | 1313 | 3.257 | 34.562 | 2 | 98.34 | 2 | -197.4 | 3.3 | 2 | 7245 |

Station 330

| | | Latitude | | 18.198°S | | Date | | 3/20/93 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 87.081°W | | Bottom Depth | | 4381 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 3 | 24.608 | 37.916 | 4 | 2.48 | 2 | 65.6 | 4.6 | 2 | 10706 |
| 1 | 32 | 106 | 18.895 | 37.465 | 4 | 1.61 | 2 | 109.3 | 5.3 | 2 | 10705 |
| 1 | 29 | 206 | 13.463 | 34.690 | 2 | 8.44 | 2 | 63.9 | 4.9 | 2 | 10704 |
| 1 | 28 | 257 | 11.144 | 34.593 | 2 | 19.14 | 2 | -7.2 | 4.4 | 2 | 10703 |
| 1 | 27 | 330 | 9.614 | 34.609 | 2 | 27.42 | 2 | -70.2 | 4.7 | 2 | 10702 |
| 1 | 26 | 405 | 8.436 | 34.575 | 2 | 31.65 | 2 | -93.5 | 4.5 | 2 | 10701 |
| 1 | 25 | 502 | 7.252 | 34.527 | 2 | 35.88 | 2 | -116.9 | 6.8 | 2 | 10700 |
| 1 | 24 | 600 | 6.387 | 34.507 | 2 | 43.76 | 2 | -119.2 | 6.1 | 2 | 10699 |
| 1 | 23 | 699 | 5.686 | 34.482 | 2 | 49.61 | 2 | -132.2 | 3.1 | 2 | 10689 |
| 1 | 22 | 797 | 5.155 | 34.487 | 2 | 59.72 | 2 | -145.8 | 3.5 | 2 | 10688 |
| 1 | 21 | 898 | 4.646 | 34.502 | 2 | 70.04 | 2 | -162.0 | 2.6 | 2 | 10687 |
| 1 | 20 | 996 | 4.266 | 34.524 | 2 | 80.38 | 2 | -171.1 | 3.5 | 2 | 10686 |
| 1 | 19 | 1096 | 3.913 | 34.536 | 2 | 87.89 | 2 | -186.4 | 2.8 | 2 | 10685 |
| 1 | 18 | 1246 | 3.433 | 34.554 | 2 | 96.45 | 2 | -200.5 | 3.9 | 2 | 10684 |
| 1 | 17 | 1397 | 3.107 | 34.578 | 2 | 106.68 | 2 | -205.2 | 3.0 | 2 | 10683 |

Station 338 (Continued)

| | | Latitude | | 14.537°S | | Date | | 3/22/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|--------------|
| | | Longitude | | 85.826°W | | Bottom Depth | | 4709 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 2 | 19 | 874 | 5.160 | 34.521 | 2 | 68.47 | 2 | -154.1 | 4.2 | 6 | 7261 7360 |
| 2 | 18 | 1029 | 4.494 | 34.535 | 2 | 82.19 | 2 | -178.0 | 4.8 | 2 | 7260 |

Station 342

| | | Latitude | | 12.489°S | | Date | | 3/23/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 85.835°W | | Bottom Depth | | 4408 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 26.194 | 35.844 | 2 | 2.44 | 2 | 48.2 | 6.8 | 2 | 10766 |
| 2 | 32 | 107 | 16.622 | 35.180 | 2 | 8.90 | 2 | 52.0 | 3.8 | 2 | 10505 |
| 2 | 29 | 186 | 12.839 | 34.904 | 2 | 26.67 | 2 | -7.4 | 2.9 | 2 | 10765 |
| 2 | 28 | 226 | 11.997 | 34.855 | 2 | 27.67 | 2 | -44.0 | 2.7 | 2 | 10399 |
| 2 | 27 | 267 | 11.419 | 34.823 | 2 | 28.88 | 2 | -79.8 | 5.4 | 2 | 10398 |
| 2 | 26 | 306 | 10.940 | 34.796 | 2 | 29.06 | 2 | -56.9 | 3.1 | 2 | 10952 |
| 2 | 25 | 357 | 10.249 | 34.748 | 2 | 31.50 | 2 | -73.9 | 5.8 | 2 | 10396 |
| 2 | 24 | 406 | 9.571 | 34.709 | 2 | 34.55 | 2 | -88.7 | 3.2 | 2 | 10395 |
| 2 | 23 | 507 | 8.378 | 34.637 | 2 | 39.45 | 2 | -104.3 | 3.2 | 2 | 10394 |
| 2 | 22 | 607 | 7.033 | 34.566 | 2 | 47.63 | 2 | -122.9 | 3.1 | 2 | 10393 |
| 2 | 20 | 806 | 5.511 | 34.526 | 2 | 63.60 | 2 | -137.9 | 3.2 | 2 | 10392 |
| 2 | 19 | 907 | 4.925 | 34.526 | 2 | 72.42 | 2 | -159.2 | 2.9 | 2 | 10494 |
| 2 | 18 | 1009 | 4.514 | 34.534 | 2 | 80.22 | 2 | -173.0 | 3.0 | 2 | 10383 |
| 2 | 17 | 1210 | 3.727 | 34.561 | 2 | 98.58 | 2 | -199.7 | 3.0 | 2 | 10382 |
| 2 | 16 | 1411 | 3.188 | 34.586 | 2 | 112.50 | 2 | -213.8 | 3.8 | 2 | 10381 |

Station 346

| | | Latitude | | 10.493°S | | Date | | 3/24/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 85.834°W | | Bottom Depth | | 4317 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 27.385 | 35.623 | 2 | 2.67 | 2 | 65.8 | 2.7 | 2 | 11642 |
| 1 | 32 | 108 | 15.923 | 35.082 | 2 | 10.00 | 2 | 95.5 | 3.2 | 2 | 11641 |
| 1 | 29 | 196 | 12.270 | 34.880 | 2 | 26.04 | 2 | -27.6 | 2.9 | 2 | 11633 |
| 1 | 28 | 225 | 11.805 | 34.855 | 2 | 27.87 | 2 | -44.9 | 2.7 | 2 | 11697 |
| 1 | 27 | 254 | 11.404 | 34.833 | 2 | 28.05 | 2 | -57.4 | 2.7 | 2 | 11632 |
| 1 | 26 | 283 | 11.053 | 34.808 | 2 | 30.51 | 2 | -61.4 | 2.8 | 2 | 11631 |
| 1 | 25 | 331 | 10.491 | 34.772 | 2 | 32.55 | 2 | -72.7 | 2.8 | 2 | 11630 |
| 1 | 24 | 401 | 9.586 | 34.716 | 2 | 35.83 | 2 | -85.4 | 2.8 | 2 | 11629 |
| 1 | 23 | 500 | 8.295 | 34.638 | 2 | 40.14 | 2 | -98.3 | 2.7 | 2 | 11628 |

Station 346 (Continued)

| | | Latitude | | 10.493°S | | Date | | 3/24/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 85.834°W | | Bottom Depth | | 4317 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 22 | 597 | 7.064 | 34.577 | 2 | 49.01 | 2 | -118.4 | 6.6 | 6 | 11627 11850 |
| 1 | 20 | 793 | 5.618 | 34.542 | 2 | 65.92 | 2 | -144.1 | 2.6 | 2 | 11626 |
| 1 | 19 | 892 | 5.012 | 34.541 | 2 | 75.42 | 2 | -147.8 | 3.8 | 2 | 11625 |
| 1 | 18 | 992 | 4.601 | 34.547 | 2 | 83.28 | 2 | -174.9 | 3.1 | 2 | 11624 |
| 1 | 17 | 1193 | 3.838 | 34.566 | 2 | 98.66 | 2 | -195.8 | 2.5 | 2 | 11623 |
| 1 | 16 | 1396 | 3.290 | 34.586 | 2 | 111.20 | 2 | -214.8 | 2.3 | 2 | 11622 |

Station 351

| | | Latitude | | 8.009°S | | Date | | 3/26/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.836°W | | Bottom Depth | | 4188 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 27.515 | 34.833 | 2 | 1.92 | 2 | 55.3 | 3.8 | 2 | 2570 |
| 1 | 32 | 108 | 14.141 | 34.992 | 2 | 22.16 | 2 | 22.6 | 6.7 | 2 | 2448 |
| 1 | 30 | 167 | 13.562 | 34.959 | 2 | 22.53 | 2 | 9.0 | 3.7 | 2 | 2447 |
| 1 | 29 | 197 | 13.302 | 34.945 | 2 | 23.55 | 2 | 3.4 | 3.1 | 2 | 2446 |
| 1 | 28 | 227 | 12.976 | 34.925 | 2 | 26.64 | 2 | -18.4 | 2.7 | 2 | 2445 |
| 1 | 27 | 268 | 12.553 | 34.900 | 2 | 27.44 | 2 | -21.5 | 3.1 | 2 | 2444 |
| 1 | 26 | 308 | 11.978 | 34.867 | 2 | 28.46 | 2 | -42.5 | 4.0 | 2 | 2443 |
| 1 | 25 | 358 | 11.117 | 34.812 | 2 | 31.75 | 2 | -61.4 | 3.2 | 2 | 2442 |
| 1 | 24 | 408 | 10.163 | 34.750 | 2 | 35.45 | 2 | -86.2 | 3.7 | 2 | 2569 |
| 1 | 23 | 509 | 8.231 | 34.645 | 2 | 46.40 | 2 | -123.1 | 2.5 | 2 | 2441 |
| 1 | 22 | 609 | 7.275 | 34.599 | 2 | 51.35 | 2 | -117.3 | 2.9 | 2 | 2440 |
| 1 | 21 | 709 | 6.296 | 34.560 | 2 | 58.78 | 2 | -145.2 | 2.6 | 2 | 2439 |
| 1 | 20 | 809 | 5.503 | 34.548 | 2 | 69.12 | 2 | -166.1 | 2.7 | 2 | 2438 |
| 1 | 19 | 911 | 4.938 | 34.550 | 2 | 78.84 | 2 | -171.1 | 2.4 | 2 | 2437 |
| 1 | 18 | 1011 | 4.498 | 34.555 | 2 | 87.54 | 2 | -183.2 | 2.4 | 2 | 2436 |
| 1 | 17 | 1112 | 4.066 | 34.563 | 2 | 95.84 | 2 | -187.1 | 2.6 | 2 | 2435 |
| 1 | 16 | 1212 | 3.724 | 34.573 | 2 | 102.71 | 2 | -210.3 | 3.9 | 2 | 2428 |
| 1 | 15 | 1414 | 3.110 | 34.600 | 2 | 119.28 | 2 | -215.9 | 2.6 | 2 | 2427 |
| 1 | 14 | 1616 | 2.774 | 34.619 | 2 | 130.27 | 2 | -221.3 | 2.7 | 2 | 2433 |
| 1 | 13 | 1818 | 2.502 | 34.635 | 2 | 137.94 | 2 | -224.5 | 2.4 | 2 | 2434 |
| 1 | 12 | 2018 | 2.288 | 34.648 | 2 | 144.15 | 2 | -227.5 | 2.9 | 2 | 2432 |
| 1 | 11 | 2219 | 2.094 | 34.658 | 2 | 147.35 | 2 | -240.7 | 2.8 | 2 | 2431 |
| 1 | 10 | 2420 | 1.935 | 34.667 | 2 | 147.53 | 2 | -233.1 | 2.4 | 2 | 2430 |
| 1 | 9 | 2620 | 1.853 | 34.672 | 2 | 148.35 | 2 | -235.0 | 2.7 | 2 | 2426 |
| 1 | 8 | 2821 | 1.804 | 34.676 | 2 | 148.96 | 2 | -227.7 | 3.1 | 2 | 2425 |
| 1 | 7 | 3022 | 1.784 | 34.679 | 2 | 147.83 | 2 | -231.1 | 2.4 | 2 | 2429 |
| 1 | 6 | 3224 | 1.785 | 34.681 | 2 | 147.14 | 2 | -231.5 | 2.5 | 2 | 2424 |

Station 351 (Continued)

| | | Latitude | | 8.009°S | | Date | | 3/26/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | | 85.836°W | | Bottom Depth | | 4188 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 5 | 3427 | 1.789 | 34.682 | 2 | 145.80 | 2 | -254.6 | 4.6 | 3 | 2423 |
| 1 | 4 | 3628 | 1.795 | 34.684 | 2 | 144.67 | 2 | -232.3 | 3.2 | 2 | 2422 |
| 1 | 3 | 3829 | 1.800 | 34.686 | 2 | 144.20 | 2 | -194.7 | 6.5 | 3 | 2568 |
| 1 | 70 | 4031 | 1.804 | 34.687 | 2 | 142.00 | 2 | -208.1 | 4.9 | 2 | 2801 |
| 1 | 71 | 4254 | 1.807 | 34.689 | 2 | 138.52 | 2 | -206.4 | 6.1 | 2 | 2800 |

Station 353

| | | Latitude | | 7.001°S | | Date | | 3/26/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | | 85.830°W | | Bottom Depth | | 3955 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 28.046 | 35.048 | 2 | 2.71 | 2 | 57.9 | 3.9 | 2 | 2481 |
| 1 | 32 | 66 | 15.076 | 35.045 | 2 | 18.55 | 2 | 19.8 | 3.4 | 2 | 2606 |
| 1 | 31 | 96 | 14.322 | 35.006 | 2 | 20.39 | 2 | 1.6 | 4.0 | 2 | 2480 |
| 1 | 30 | 130 | 13.695 | 34.966 | 2 | 22.64 | 2 | 13.6 | 5.2 | 2 | 2479 |
| 1 | 29 | 175 | 13.262 | 34.939 | 2 | 24.48 | 2 | -6.5 | 5.8 | 2 | 2478 |
| 1 | 28 | 246 | 12.566 | 34.900 | 2 | 27.35 | 2 | -22.5 | 4.5 | 2 | 2477 |
| 1 | 27 | 306 | 11.769 | 34.845 | 2 | 28.56 | 2 | -57.2 | 6.3 | 2 | 2476 |
| 1 | 26 | 357 | 10.998 | 34.802 | 2 | 31.64 | 2 | -77.1 | 4.9 | 2 | 2475 |
| 1 | 25 | 407 | 9.896 | 34.733 | 2 | 38.03 | 2 | -81.9 | 4.3 | 2 | 2474 |
| 1 | 24 | 507 | 7.835 | 34.628 | 2 | 50.00 | 2 | -109.2 | 4.1 | 2 | 2473 |
| 1 | 23 | 608 | 6.855 | 34.588 | 2 | 56.59 | 2 | -139.2 | 3.3 | 2 | 2453 |
| 1 | 22 | 708 | 6.107 | 34.558 | 2 | 60.49 | 2 | -148.3 | 4.4 | 2 | 2452 |
| 1 | 21 | 808 | 5.451 | 34.547 | 2 | 69.99 | 2 | -145.7 | 3.3 | 2 | 2451 |
| 1 | 20 | 909 | 4.877 | 34.545 | 2 | 77.63 | 2 | -175.7 | 6.4 | 2 | 2450 |
| 1 | 19 | 1010 | 4.449 | 34.554 | 2 | 88.19 | 2 | -172.5 | 2.8 | 2 | 2449 |
| 1 | 18 | 1160 | 3.866 | 34.568 | 2 | 100.24 | 2 | -180.2 | 4.6 | 2 | 2571 |

Station 357

| | | Latitude | | 5.004°S | | Date | | 3/28/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | | 85.829°W | | Bottom Depth | | 3560 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 2 | 36 | 1 | 28.987 | 33.368 | 2 | 2.94 | 2 | 77.5 | 3.9 | 2 | 2305 |
| 2 | 30 | 113 | 14.267 | 35.007 | 2 | 19.15 | 2 | 32.4 | 4.3 | 2 | 2304 |
| 2 | 26 | 203 | 13.072 | 34.929 | 2 | 24.60 | 2 | -6.6 | 3.7 | 2 | 2303 |
| 2 | 25 | 253 | 12.588 | 34.903 | 2 | 26.41 | 2 | -25.5 | 3.7 | 2 | 2302 |
| 2 | 24 | 303 | 11.710 | 34.847 | 2 | 30.06 | 2 | -52.5 | 3.6 | 2 | 2301 |
| 2 | 23 | 364 | 10.455 | 34.773 | 2 | 37.16 | 2 | -82.7 | 3.3 | 2 | 2300 |

Station 357 (Continued)

| | | Latitude | | 5.004°S | | Date | | 3/28/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.829°W | | Bottom Depth | | 3560 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 22 | 414 | 9.323 | 34.700 | 2 | 43.65 | 2 | -95.7 | 4.4 | 2 | 2299 |
| 2 | 21 | 514 | 7.957 | 34.635 | 2 | 49.53 | 2 | -116.9 | 3.1 | 2 | 2298 |
| 2 | 20 | 614 | 6.972 | 34.599 | 2 | 58.87 | 2 | -131.1 | 3.0 | 2 | 2297 |
| 2 | 19 | 715 | 6.037 | 34.575 | 2 | 68.42 | 2 | -145.0 | 3.2 | 2 | 2296 |
| 2 | 18 | 816 | 5.236 | 34.560 | 2 | 77.78 | 2 | -161.6 | 3.1 | 2 | 2295 |
| 2 | 17 | 916 | 4.644 | 34.560 | 2 | 87.57 | 2 | -177.5 | 3.3 | 2 | 2294 |
| 2 | 16 | 1017 | 4.280 | 34.568 | 2 | 95.94 | 2 | -184.9 | 3.1 | 2 | 2293 |
| 2 | 15 | 1118 | 3.988 | 34.576 | 2 | 103.11 | 2 | -194.5 | 3.1 | 2 | 2292 |
| 2 | 14 | 1219 | 3.693 | 34.585 | 2 | 109.69 | 2 | -200.8 | 3.1 | 2 | 2291 |
| 2 | 13 | 1421 | 3.158 | 34.606 | 2 | 123.36 | 2 | -217.4 | 3.2 | 2 | 2290 |

Station 361

| | | Latitude | | 2.997°S | | Date | | 3/28/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.829°W | | Bottom Depth | | 3227 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 29.142 | 34.142 | 2 | 2.49 | 2 | 69.8 | 3.8 | 2 | 2591 |
| 2 | 28 | 86 | 16.211 | 35.065 | 2 | 13.76 | 2 | 46.6 | 5.1 | 2 | 2590 |
| 2 | 27 | 126 | 14.799 | 35.023 | 2 | 15.97 | 2 | 34.6 | 3.8 | 2 | 2589 |
| 2 | 26 | 171 | 14.156 | 34.997 | 2 | 18.19 | 2 | 29.3 | 6.7 | 2 | 2588 |
| 2 | 25 | 201 | 13.778 | 34.965 | 2 | 19.38 | 2 | -6.7 | 3.6 | 2 | 2587 |
| 2 | 24 | 256 | 13.361 | 34.940 | 2 | 21.80 | 2 | -12.0 | 4.8 | 2 | 2586 |
| 2 | 23 | 302 | 12.453 | 34.880 | 2 | 28.88 | 2 | -34.9 | 6.9 | 2 | 2585 |
| 2 | 22 | 331 | 10.735 | 34.786 | 2 | 36.37 | 2 | -77.2 | 3.8 | 2 | 2584 |
| 2 | 21 | 382 | 9.607 | 34.722 | 2 | 41.82 | 2 | -48.3 | 7.1 | 3 | 2583 |
| 2 | 20 | 457 | 8.428 | 34.658 | 2 | 47.28 | 2 | -112.6 | 8.3 | 2 | 2582 |
| 2 | 19 | 556 | 7.324 | 34.612 | 2 | 54.77 | 2 | -145.6 | 8.6 | 2 | 2581 |
| 2 | 18 | 656 | 6.589 | 34.589 | 2 | 61.85 | 2 | -156.5 | 4.3 | 2 | 2580 |
| 2 | 17 | 757 | 5.695 | 34.569 | 2 | 72.80 | 2 | -162.8 | 3.7 | 2 | 2579 |
| 2 | 16 | 858 | 4.930 | 34.567 | 2 | 85.20 | 2 | -164.0 | 3.4 | 2 | 2578 |
| 2 | 15 | 958 | 4.600 | 34.569 | 2 | 91.30 | 2 | -163.8 | 3.5 | 2 | 2577 |
| 2 | 14 | 1060 | 4.263 | 34.576 | 2 | 98.22 | 2 | -176.7 | 6.7 | 2 | 2576 |

Station 364

| | | Latitude | | 1.999°S | | Date | | 3/29/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.833°W | | Bottom Depth | | 2742 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 28.407 | 34.544 | 2 | 2.13 | 2 | 69.7 | 3.6 | 2 | 2619 |
| 1 | 28 | 106 | 14.929 | 35.023 | 2 | 15.96 | 2 | 34.3 | 3.4 | 2 | 2618 |
| 1 | 24 | 205 | 13.869 | 34.969 | 2 | 21.21 | 2 | 25.5 | 4.9 | 2 | 2595 |
| 1 | 22 | 304 | 11.970 | 34.864 | 2 | 29.55 | 2 | -48.2 | 3.4 | 2 | 2617 |
| 1 | 21 | 354 | 10.483 | 34.769 | 2 | 36.48 | 2 | -72.5 | 3.3 | 2 | 2616 |
| 1 | 20 | 404 | 8.997 | 34.683 | 2 | 42.38 | 2 | -90.1 | 3.3 | 2 | 2615 |
| 1 | 19 | 455 | 8.709 | 34.670 | 2 | 44.20 | 2 | -96.9 | 3.4 | 2 | 2614 |
| 1 | 18 | 555 | 7.883 | 34.635 | 2 | 50.52 | 2 | -108.3 | 4.7 | 2 | 2613 |
| 1 | 17 | 656 | 6.704 | 34.592 | 2 | 60.72 | 2 | -124.6 | 4.0 | 2 | 2612 |
| 1 | 16 | 757 | 5.696 | 34.571 | 2 | 72.97 | 2 | -150.8 | 3.9 | 2 | 2611 |
| 1 | 15 | 857 | 4.954 | 34.568 | 2 | 84.84 | 2 | -168.2 | 4.8 | 2 | 2610 |
| 1 | 14 | 957 | 4.566 | 34.574 | 2 | 93.24 | 2 | -197.2 | 2.9 | 2 | 2609 |
| 1 | 13 | 1057 | 4.281 | 34.578 | 2 | 98.98 | 2 | -201.1 | 6.1 | 2 | 2608 |
| 1 | 12 | 1158 | 3.794 | 34.586 | 2 | 108.47 | 2 | -195.6 | 5.5 | 2 | 2594 |
| 1 | 11 | 1259 | 3.506 | 34.601 | 2 | 118.21 | 2 | -222.9 | 8.6 | 2 | 2593 |
| 1 | 10 | 1360 | 3.415 | 34.605 | 2 | 120.48 | 2 | -191.5 | 3.4 | 2 | 2592 |

Station 371

| | | Latitude | | 0.334°S | | Date | | 3/30/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.832°W | | Bottom Depth | | 3030 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 1 | 27.527 | 34.580 | 2 | 3.60 | 2 | 66.6 | 5.1 | 2 | 2634 |
| 1 | 28 | 105 | 15.418 | 35.026 | 2 | 15.49 | 2 | 32.2 | 3.4 | 2 | 2633 |
| 1 | 25 | 215 | 13.053 | 34.914 | 2 | 24.56 | 2 | -14.2 | 3.7 | 2 | 2632 |
| 1 | 23 | 304 | 11.109 | 34.790 | 2 | 33.43 | 2 | -63.8 | 3.7 | 2 | 2631 |
| 1 | 21 | 425 | 9.084 | 34.688 | 2 | 43.10 | 2 | -113.8 | 3.3 | 2 | 2630 |
| 1 | 20 | 506 | 8.020 | 34.638 | 2 | 50.37 | 2 | -124.4 | 3.5 | 2 | 2629 |
| 1 | 19 | 581 | 7.322 | 34.611 | 2 | 55.20 | 2 | -137.1 | 3.2 | 2 | 2628 |
| 1 | 18 | 656 | 6.683 | 34.592 | 2 | 61.26 | 2 | -137.5 | 3.3 | 2 | 2627 |
| 1 | 17 | 732 | 6.107 | 34.578 | 2 | 68.12 | 2 | -142.2 | 3.2 | 2 | 2626 |
| 1 | 16 | 807 | 5.538 | 34.571 | 2 | 75.80 | 2 | -154.1 | 3.1 | 2 | 2625 |
| 1 | 15 | 883 | 5.244 | 34.568 | 2 | 80.24 | 2 | -164.0 | 5.0 | 2 | 2624 |
| 1 | 14 | 959 | 4.837 | 34.570 | 2 | 88.14 | 2 | -174.1 | 4.7 | 2 | 2623 |
| 1 | 13 | 1059 | 4.423 | 34.575 | 2 | 95.86 | 2 | -178.6 | 5.3 | 2 | 2622 |
| 1 | 12 | 1210 | 3.767 | 34.594 | 2 | 112.82 | 2 | -189.9 | 4.4 | 2 | 2621 |
| 1 | 11 | 1360 | 3.350 | 34.606 | 2 | 122.09 | 2 | -194.8 | 3.0 | 2 | 2620 |
| 1 | 10 | 1511 | 3.169 | 34.612 | 2 | 125.39 | 2 | -207.8 | 2.7 | 2 | 3040 |

Station 373

| | | Latitude | | 0.004°N | | | | Date | | 3/31/93 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---------|-------|
| | | Longitude | | 85.835°W | | | | Bottom Depth | | 2874 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 26.826 | 34.430 | 2 | 3.26 | 2 | 59.1 | 5.7 | 2 | 2575 |
| 1 | 68 | 45 | 21.592 | 34.949 | 2 | 6.67 | 2 | 127.1 | 4.7 | 2 | 2574 |
| 1 | 32 | 65 | 17.762 | 35.089 | 2 | 11.11 | 2 | 86.2 | 4.9 | 2 | 2573 |
| 1 | 30 | 85 | 16.462 | 35.007 | 2 | 13.93 | 2 | 49.2 | 3.7 | 2 | 2572 |
| 1 | 28 | 115 | 15.343 | 35.012 | 2 | 15.33 | 2 | 35.7 | 4.1 | 2 | 2492 |
| 1 | 27 | 145 | 14.885 | 34.991 | 2 | 16.32 | 2 | 37.5 | 4.0 | 2 | 2491 |
| 1 | 26 | 175 | 14.257 | 34.973 | 2 | 20.16 | 2 | 18.9 | 5.0 | 2 | 2490 |
| 1 | 25 | 206 | 13.653 | 34.950 | 2 | 20.34 | 2 | 12.8 | 4.0 | 2 | 2489 |
| 1 | 24 | 245 | 12.771 | 34.895 | 2 | 26.21 | 2 | -19.4 | 4.1 | 2 | 2488 |
| 1 | 23 | 286 | 12.378 | 34.863 | 2 | 28.21 | 2 | -35.1 | 3.2 | 2 | 2607 |
| 1 | 22 | 336 | 10.722 | 34.777 | 2 | 34.08 | 2 | -62.6 | 5.5 | 2 | 2487 |
| 1 | 21 | 387 | 9.754 | 34.722 | 2 | 40.35 | 2 | -89.5 | 4.5 | 2 | 2486 |
| 1 | 20 | 437 | 9.046 | 34.686 | 2 | 43.37 | 2 | -101.4 | 3.9 | 2 | 2485 |
| 1 | 19 | 487 | 8.655 | 34.667 | 2 | 46.19 | 2 | -105.5 | 4.0 | 2 | 2484 |
| 1 | 18 | 547 | 7.580 | 34.621 | 2 | 53.48 | 2 | -139.4 | 3.2 | 2 | 2483 |
| 1 | 17 | 607 | 6.936 | 34.598 | 2 | 58.74 | 2 | -132.0 | 3.3 | 2 | 2482 |
| 1 | 16 | 707 | 6.399 | 34.584 | 2 | 64.21 | 2 | -133.4 | 2.6 | 2 | 10589 |
| 1 | 15 | 809 | 5.600 | 34.571 | 2 | 75.38 | 2 | -149.6 | 2.7 | 2 | 10588 |
| 1 | 14 | 909 | 5.166 | 34.568 | 2 | 81.06 | 2 | -164.0 | 3.6 | 2 | 10587 |
| 1 | 13 | 1009 | 4.727 | 34.572 | 2 | 89.61 | 2 | -175.3 | 6.6 | 6 | 10586 |
| | | | | | | | | | | | 10926 |
| 1 | 12 | 1109 | 4.250 | 34.578 | 2 | 99.62 | 2 | -183.8 | 3.2 | 2 | 10948 |
| 1 | 11 | 1211 | 3.818 | 34.588 | 2 | 109.68 | 2 | -186.4 | 2.8 | 2 | 10585 |
| 1 | 10 | 1312 | 3.521 | 34.602 | 2 | 118.14 | 2 | -198.7 | 2.5 | 2 | 10576 |
| 1 | 9 | 1414 | 3.317 | 34.606 | 2 | 122.27 | 2 | -197.9 | 2.5 | 2 | 10575 |
| 1 | 8 | 1515 | 3.137 | 34.612 | 2 | 126.62 | 2 | -206.9 | 2.5 | 2 | 10574 |
| 1 | 7 | 1718 | 2.662 | 34.635 | 2 | 139.42 | 2 | -216.8 | 2.6 | 2 | 10573 |
| 1 | 6 | 1920 | 2.377 | 34.649 | 2 | 147.69 | 2 | -220.7 | 2.7 | 2 | 10572 |
| 1 | 5 | 2125 | 2.148 | 34.660 | 2 | 154.11 | 2 | -224.9 | 2.7 | 2 | 10571 |
| 1 | 4 | 2327 | 2.084 | 34.664 | 2 | 154.08 | 2 | -224.7 | 3.2 | 2 | 10570 |
| 1 | 70 | 2733 | 2.030 | 34.668 | 2 | 155.96 | 2 | -212.5 | 3.0 | 2 | 10569 |
| 1 | 71 | 2925 | 2.038 | 34.669 | 2 | 156.14 | 2 | -224.1 | 2.6 | 2 | 10568 |

Station 379

| | | Latitude | | 1.004°N | | | | Date | | 3/31/93 | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---------|------|
| | | Longitude | | 85.836°W | | | | Bottom Depth | | 2792 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 36 | 2 | 27.248 | 34.189 | 2 | 1.99 | 2 | 69.2 | 3.7 | 2 | 2716 |
| 3 | 30 | 106 | 15.020 | 34.989 | 2 | 15.74 | 2 | 44.4 | 3.6 | 2 | 2715 |

Station 379 (Continued)

| | | Latitude | | 1.004°N | | Date | | 3/31/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.836°W | | Bottom Depth | | 2792 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 3 | 27 | 156 | 14.845 | 34.993 | 2 | 16.13 | 2 | 35.8 | 3.6 | 2 | 2714 |
| 3 | 25 | 206 | 14.173 | 34.974 | 2 | 18.75 | 2 | 17.9 | 3.8 | 2 | 2647 |
| 3 | 24 | 256 | 12.730 | 34.878 | 2 | 24.21 | 2 | -7.4 | 3.7 | 2 | 2646 |
| 3 | 23 | 307 | 10.873 | 34.785 | 2 | 34.53 | 2 | -54.3 | 3.5 | 2 | 2645 |
| 3 | 22 | 356 | 9.870 | 34.725 | 2 | 39.98 | 2 | -81.3 | 3.5 | 2 | 2644 |
| 3 | 21 | 407 | 9.125 | 34.688 | 2 | 42.81 | 2 | -101.7 | 3.5 | 2 | 2643 |
| 3 | 19 | 507 | 8.459 | 34.657 | 2 | 46.84 | 2 | -107.8 | 3.2 | 2 | 2642 |
| 3 | 17 | 607 | 7.133 | 34.603 | 2 | 56.54 | 2 | -122.5 | 3.5 | 2 | 2641 |
| 3 | 16 | 708 | 6.619 | 34.589 | 2 | 62.40 | 2 | -135.3 | 4.7 | 2 | 2640 |
| 3 | 15 | 809 | 5.794 | 34.572 | 2 | 72.52 | 2 | -151.8 | 4.1 | 2 | 2639 |
| 3 | 14 | 910 | 4.946 | 34.568 | 2 | 85.31 | 2 | -178.6 | 3.7 | 2 | 2638 |
| 3 | 13 | 1011 | 4.450 | 34.574 | 2 | 95.28 | 2 | -183.3 | 6.0 | 2 | 2637 |
| 3 | 12 | 1111 | 4.127 | 34.584 | 2 | 103.44 | 2 | -183.4 | 4.4 | 2 | 2636 |
| 3 | 11 | 1212 | 3.792 | 34.590 | 2 | 111.02 | 2 | -197.2 | 5.4 | 2 | 2635 |

Station 380

| | | Latitude | | 1.340°N | | Date | | 3/31/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.831°W | | Bottom Depth | | 3006 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 27.938 | 34.345 | 2 | 2.73 | 2 | 80.9 | 4.9 | 2 | 2814 |
| 1 | 30 | 116 | 14.893 | 34.993 | 2 | 16.30 | 2 | 61.7 | 3.8 | 2 | 2813 |
| 1 | 26 | 204 | 14.204 | 34.977 | 2 | 18.90 | 2 | 35.3 | 3.7 | 2 | 2812 |
| 1 | 24 | 305 | 12.116 | 34.846 | 2 | 28.41 | 2 | -17.5 | 3.5 | 2 | 2811 |
| 1 | 22 | 404 | 9.465 | 34.705 | 2 | 41.99 | 2 | -99.4 | 3.5 | 2 | 2728 |
| 1 | 20 | 503 | 8.337 | 34.652 | 2 | 47.84 | 2 | -118.1 | 4.2 | 2 | 2727 |
| 1 | 19 | 603 | 7.128 | 34.604 | 2 | 56.56 | 2 | -127.8 | 3.4 | 2 | 2726 |
| 1 | 18 | 703 | 6.351 | 34.583 | 2 | 65.28 | 2 | -150.4 | 3.3 | 2 | 2725 |
| 1 | 17 | 802 | 5.588 | 34.569 | 2 | 75.64 | 2 | -167.0 | 3.3 | 2 | 2724 |
| 1 | 16 | 902 | 4.988 | 34.567 | 2 | 84.59 | 2 | -160.1 | 3.1 | 2 | 2723 |
| 1 | 15 | 1002 | 4.664 | 34.570 | 2 | 91.92 | 2 | -169.6 | 4.2 | 2 | 2722 |
| 1 | 14 | 1103 | 4.209 | 34.579 | 2 | 101.31 | 2 | -173.0 | 3.8 | 2 | 2721 |
| 1 | 13 | 1254 | 3.689 | 34.592 | 2 | 113.03 | 2 | -189.3 | 3.1 | 2 | 2720 |
| 1 | 11 | 1555 | 3.061 | 34.616 | 2 | 130.02 | 2 | -205.6 | 3.0 | 2 | 2719 |
| 1 | 9 | 1808 | 2.548 | 34.639 | 2 | 143.67 | 2 | -214.4 | 3.0 | 2 | 2718 |
| 1 | 7 | 2013 | 2.235 | 34.655 | 2 | 152.59 | 2 | -214.1 | 3.0 | 2 | 2717 |

Station 382

| | | Latitude | | 2.002°N | | Date | | 4/1/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.840°W | | Bottom Depth | | 2601 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 1 | 28.641 | 33.428 | 2 | 1.14 | 2 | 83.6 | 3.9 | 2 | 2818 |
| 1 | 28 | 91 | 15.090 | 34.996 | 2 | 16.64 | 2 | 56.4 | 3.7 | 2 | 2817 |
| 1 | 25 | 206 | 14.009 | 34.963 | 2 | 19.03 | 2 | 0.5 | 4.4 | 2 | 2890 |
| 1 | 22 | 304 | 11.293 | 34.799 | 2 | 31.92 | 2 | -36.3 | 3.5 | 2 | 2816 |
| 1 | 20 | 427 | 8.976 | 34.680 | 2 | 44.82 | 2 | -79.7 | 3.4 | 2 | 2815 |
| 1 | 19 | 491 | 8.407 | 34.654 | 2 | 48.03 | 2 | -107.5 | 3.0 | 2 | 2809 |
| 1 | 18 | 575 | 7.685 | 34.625 | 2 | 54.28 | 2 | -115.3 | 3.2 | 2 | 2808 |
| 1 | 14 | 944 | 4.944 | 34.569 | 2 | 85.18 | 2 | -169.8 | 2.7 | 2 | 2807 |
| 1 | 13 | 1068 | 4.379 | 34.575 | 2 | 96.75 | 2 | -184.8 | 2.7 | 2 | 2806 |
| 1 | 12 | 1193 | 3.959 | 34.590 | 2 | 108.38 | 2 | -193.2 | 2.8 | 2 | 2805 |
| 1 | 11 | 1294 | 3.643 | 34.597 | 2 | 115.76 | 2 | -194.0 | 2.8 | 2 | 2804 |
| 1 | 10 | 1392 | 3.314 | 34.607 | 2 | 123.59 | 2 | -190.3 | 2.7 | 2 | 2803 |
| 1 | 9 | 1490 | 3.090 | 34.614 | 2 | 128.34 | 2 | -190.3 | 2.9 | 2 | 2802 |

Station 386

| | | Latitude | | 3.500°N | | Date | | 4/2/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 85.842°W | | Bottom Depth | | 2910 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 29.709 | 32.162 | 2 | 1.83 | 2 | 90.3 | 3.7 | 2 | 2833 |
| 2 | 28 | 80 | 15.647 | 34.960 | 2 | 16.29 | 2 | 39.1 | 3.6 | 2 | 2832 |
| 2 | 27 | 105 | 15.262 | 35.008 | 2 | 16.27 | 2 | 33.5 | 3.7 | 2 | 2830 |
| 2 | 25 | 164 | 14.151 | 34.949 | 2 | 20.07 | 2 | 16.7 | 3.6 | 2 | 2829 |
| 2 | 24 | 203 | 13.608 | 34.921 | 2 | 22.28 | 2 | 4.1 | 3.6 | 2 | 2828 |
| 2 | 21 | 374 | 10.467 | 34.753 | 2 | 38.01 | 2 | -21.3 | 3.8 | 3 | 2827 |
| 2 | 20 | 455 | 9.339 | 34.695 | 2 | 44.47 | 2 | -78.1 | 3.4 | 2 | 2826 |
| 2 | 19 | 530 | 8.251 | 34.645 | 2 | 51.75 | 2 | -99.9 | 3.4 | 2 | 2825 |
| 2 | 18 | 654 | 6.795 | 34.600 | 2 | 64.71 | 2 | -139.5 | 3.8 | 2 | 2824 |
| 2 | 17 | 728 | 6.044 | 34.583 | 2 | 73.42 | 2 | -154.0 | 3.3 | 2 | 2823 |
| 2 | 16 | 803 | 5.584 | 34.576 | 2 | 78.90 | 2 | -162.3 | 3.3 | 2 | 2822 |
| 2 | 15 | 876 | 5.205 | 34.573 | 2 | 84.58 | 2 | -183.1 | 3.4 | 2 | 2891 |
| 2 | 14 | 950 | 4.965 | 34.577 | 2 | 89.46 | 2 | -172.9 | 3.6 | 2 | 2821 |
| 2 | 13 | 1050 | 4.479 | 34.581 | 2 | 99.06 | 2 | -187.9 | 3.2 | 2 | 2820 |
| 2 | 11 | 1248 | 3.779 | 34.593 | 2 | 113.22 | 2 | -194.4 | 3.2 | 2 | 2819 |

Station 395

| | | Latitude | | 6.715°N | | Date | | 4/4/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | | 88.779°W | | Bottom Depth | | 3450 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 2 | 36 | 1 | 29.325 | 32.904 | 2 | 1.02 | 2 | 62.6 | 3.4 | 2 | 2892 |
| 2 | 28 | 95 | 15.780 | 34.928 | 2 | 16.03 | 2 | 31.9 | 5.0 | 2 | 2847 |
| 2 | 26 | 155 | 14.086 | 34.927 | 2 | 19.89 | 2 | 15.1 | 6.4 | 2 | 2846 |
| 2 | 24 | 204 | 13.051 | 34.877 | 2 | 23.75 | 2 | -13.8 | 4.6 | 2 | 2845 |
| 2 | 23 | 254 | 12.157 | 34.821 | 2 | 26.80 | 2 | -33.8 | 5.0 | 2 | 2844 |
| 2 | 22 | 304 | 11.489 | 34.788 | 2 | 31.67 | 2 | -59.6 | 9.7 | 2 | 2843 |
| 2 | 21 | 380 | 10.213 | 34.725 | 2 | 39.19 | 2 | -90.3 | 3.6 | 2 | 2842 |
| 2 | 20 | 456 | 8.761 | 34.657 | 2 | 49.16 | 2 | -112.7 | 3.3 | 2 | 2841 |
| 2 | 19 | 531 | 7.814 | 34.624 | 2 | 54.65 | 2 | -121.5 | 3.4 | 2 | 2840 |
| 2 | 18 | 632 | 6.963 | 34.596 | 2 | 62.39 | 2 | -133.3 | 3.4 | 2 | 2839 |
| 2 | 51 | 732 | 6.200 | 34.581 | 2 | 70.75 | 2 | -147.9 | 3.2 | 2 | 2838 |
| 2 | 16 | 833 | 5.582 | 34.577 | 2 | 79.94 | 2 | -159.0 | 3.2 | 2 | 2837 |
| 2 | 15 | 934 | 4.950 | 34.571 | 2 | 90.17 | 2 | -176.0 | 3.1 | 2 | 2836 |
| 2 | 14 | 1035 | 4.555 | 34.576 | 2 | 97.36 | 2 | -181.2 | 3.1 | 2 | 2835 |
| 2 | 13 | 1160 | 4.131 | 34.588 | 2 | 107.67 | 2 | -192.3 | 3.8 | 2 | 2834 |
| 2 | 12 | 1312 | 3.649 | 34.598 | 2 | 118.25 | 2 | -212.7 | 3.7 | 2 | 2831 |

Station 398

| | | Latitude | | 7.728°N | | Date | | 4/5/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|------|
| | | Longitude | | 89.897°W | | Bottom Depth | | 3458 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 28.686 | -9 | 5 | 2.49 | 2 | 64.0 | 3.9 | 2 | 2906 |
| 1 | 28 | 100 | 13.328 | 34.844 | 2 | 23.78 | 2 | -5.4 | 3.0 | 2 | 2905 |
| 1 | 26 | 175 | 12.088 | 34.804 | 2 | 27.21 | 2 | -26.5 | 3.1 | 2 | 2904 |
| 1 | 25 | 256 | 11.284 | 34.767 | 2 | 29.84 | 2 | -47.1 | 3.3 | 2 | 3106 |
| 1 | 24 | 331 | 10.429 | 34.719 | 2 | 35.52 | 2 | -71.9 | 2.8 | 2 | 3105 |
| 1 | 23 | 431 | 9.121 | 34.658 | 2 | 45.69 | 2 | -100.0 | 2.9 | 2 | 2903 |
| 1 | 22 | 530 | 7.700 | 34.609 | 2 | 58.92 | 2 | -122.3 | 3.4 | 2 | 2902 |
| 1 | 21 | 630 | 6.764 | 34.590 | 2 | 66.25 | 2 | -134.9 | 2.8 | 2 | 2901 |
| 1 | 20 | 732 | 5.913 | 34.571 | 2 | 76.85 | 2 | -152.8 | 3.7 | 2 | 2900 |
| 1 | 19 | 831 | 5.357 | 34.569 | 2 | 85.23 | 2 | -168.7 | 6.2 | 2 | 2899 |
| 1 | 18 | 930 | 4.838 | 34.573 | 2 | 94.24 | 2 | -182.1 | 3.4 | 2 | 2898 |
| 1 | 51 | 1030 | 4.399 | 34.579 | 2 | 102.46 | 2 | -188.3 | 2.8 | 2 | 2897 |
| 1 | 16 | 1131 | 4.040 | 34.589 | 2 | 110.30 | 2 | -197.7 | 3.1 | 2 | 2896 |
| 1 | 15 | 1230 | 3.698 | 34.595 | 2 | 117.76 | 2 | -206.3 | 2.6 | 2 | 2895 |
| 1 | 14 | 1330 | 3.368 | 34.606 | 2 | 124.84 | 2 | -209.0 | 2.6 | 2 | 2894 |
| 1 | 13 | 1430 | 3.181 | 34.614 | 2 | 129.24 | 2 | -219.2 | 3.4 | 2 | 2893 |

Station 403

| | | Latitude | | 9.432°N | | Date | | 4/6/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 91.754°W | | Bottom Depth | | 3717 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 36 | 2 | 28.883 | 33.921 | 2 | 1.42 | 2 | 76.9 | 7.1 | 2 | 2921 |
| 1 | 28 | 104 | 13.472 | 34.844 | 2 | 22.85 | 2 | 23.6 | 7.8 | 2 | 2920 |
| 1 | 26 | 183 | 12.295 | 34.808 | 2 | 26.63 | 2 | -17.4 | 4.3 | 2 | 2919 |
| 1 | 24 | 277 | 11.124 | 34.754 | 2 | 31.22 | 2 | -53.7 | 4.3 | 2 | 2918 |
| 1 | 23 | 327 | 10.399 | 34.717 | 2 | 35.63 | 2 | -88.5 | 6.2 | 2 | 2917 |
| 1 | 22 | 403 | 9.283 | 34.665 | 2 | 45.47 | 2 | -110.7 | 4.0 | 2 | 2916 |
| 1 | 21 | 503 | 7.752 | 34.604 | 2 | 59.56 | 2 | -143.4 | 8.1 | 2 | 2915 |
| 1 | 20 | 604 | 6.761 | 34.577 | 2 | 67.60 | 2 | -139.4 | 3.8 | 2 | 2914 |
| 1 | 19 | 704 | 6.005 | 34.567 | 2 | 75.46 | 2 | -144.9 | 3.4 | 2 | 2913 |
| 1 | 18 | 805 | 5.446 | 34.564 | 2 | 83.53 | 2 | -155.7 | 5.9 | 2 | 2912 |
| 1 | 51 | 906 | 4.900 | 34.562 | 2 | 93.25 | 2 | -203.5 | 5.9 | 3 | 3041 |
| 1 | 16 | 1007 | 4.454 | 34.569 | 2 | 101.37 | 2 | -198.9 | 3.1 | 2 | 2911 |
| 1 | 15 | 1108 | 4.088 | 34.576 | 2 | 109.12 | 2 | -193.8 | 2.6 | 2 | 2910 |
| 1 | 14 | 1258 | 3.639 | 34.587 | 2 | 117.93 | 2 | -202.7 | 2.8 | 2 | 2909 |
| 1 | 13 | 1410 | 3.322 | 34.599 | 2 | 124.53 | 2 | -215.4 | 2.7 | 2 | 2908 |
| 1 | 12 | 1612 | 2.916 | 34.614 | 2 | 133.67 | 2 | -233.5 | 2.8 | 2 | 2907 |

Station 413

| | | Latitude | | 13.029°N | | Date | | 4/9/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 91.760°W | | Bottom Depth | | 6224 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 2 | 36 | 2 | 29.728 | 33.670 | 2 | 1.95 | 2 | 68.2 | 3.9 | 2 | 2944 |
| 2 | 35 | 38 | 23.816 | 34.330 | 2 | 5.90 | 2 | 36.5 | 5.2 | 2 | 2943 |
| 2 | 68 | 74 | 16.066 | 34.790 | 2 | 19.61 | 2 | 18.4 | 4.4 | 2 | 2942 |
| 2 | 33 | 109 | 13.892 | 34.830 | 2 | 23.56 | 2 | -4.0 | 3.7 | 2 | 2941 |
| 2 | 32 | 169 | 12.956 | 34.836 | 2 | 26.12 | 2 | -16.1 | 3.4 | 2 | 2940 |
| 2 | 31 | 228 | 12.388 | 34.812 | 2 | 28.29 | 2 | -39.6 | 3.0 | 2 | 2939 |
| 2 | 30 | 310 | 11.398 | 34.760 | 2 | 32.44 | 2 | -50.9 | 3.0 | 2 | 2938 |
| 2 | 29 | 410 | 9.811 | 34.679 | 2 | 44.17 | 2 | -86.2 | 4.2 | 2 | 2937 |
| 2 | 27 | 611 | 7.210 | 34.585 | 2 | 67.09 | 2 | -132.9 | 2.8 | 2 | 2936 |
| 2 | 26 | 711 | 6.034 | 34.562 | 2 | 80.26 | 2 | -161.0 | 3.3 | 2 | 2935 |
| 2 | 25 | 812 | 5.514 | 34.558 | 2 | 87.06 | 2 | -171.8 | 3.4 | 2 | 2934 |
| 2 | 24 | 912 | 5.024 | 34.564 | 2 | 94.87 | 2 | -176.3 | 3.9 | 2 | 2933 |
| 2 | 23 | 1114 | 4.237 | 34.572 | 2 | 109.81 | 2 | -190.1 | 3.0 | 2 | 2932 |
| 2 | 22 | 1315 | 3.544 | 34.592 | 2 | 124.29 | 2 | -213.1 | 3.1 | 2 | 2931 |
| 2 | 21 | 1518 | 3.044 | 34.610 | 2 | 134.81 | 2 | -230.3 | 3.8 | 2 | 2930 |

Station 420

| | | Latitude | | 13.488°N | | Date | | 4/10/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 91.596°W | | Bottom Depth | | 830 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 18 | 22 | 26.514 | 34.181 | 2 | 1.54 | 2 | 13.8 | 3.0 | 2 | 2954 |
| 1 | 13 | 144 | 13.859 | 34.838 | 2 | 23.66 | 2 | -0.5 | 3.1 | 2 | 2953 |
| 1 | 11 | 223 | 13.441 | 34.842 | 2 | 24.64 | 2 | -9.6 | 4.8 | 2 | 2952 |
| 1 | 8 | 354 | 11.031 | 34.744 | 2 | 34.80 | 2 | -82.9 | 9.7 | 2 | 2951 |
| 1 | 7 | 405 | 10.200 | 34.698 | 2 | 40.98 | 2 | -118.3 | 10.7 | 2 | 2950 |
| 1 | 6 | 455 | 9.361 | 34.663 | 2 | 46.77 | 2 | -125.9 | 10.0 | 2 | 2949 |
| 1 | 4 | 556 | 7.807 | 34.600 | 2 | 61.54 | 2 | -116.3 | 3.6 | 2 | 2948 |
| 1 | 3 | 604 | 7.309 | 34.586 | 2 | 66.74 | 2 | -135.9 | 3.6 | 2 | 2947 |
| 1 | 70 | 704 | 6.686 | 34.573 | 2 | 72.53 | 2 | -132.1 | 2.8 | 2 | 2946 |
| 1 | 71 | 826 | 5.643 | 34.562 | 2 | 84.16 | 2 | -158.2 | 2.8 | 2 | 2945 |

Station 422

| | | Latitude | | 13.536°N | | Date | | 4/10/93 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|------|
| | | Longitude | | 91.576°W | | Bottom Depth | | 200 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 10 | 2 | 29.223 | 34.123 | 2 | 0.27 | 2 | 47.5 | 3.4 | 2 | 2960 |
| 1 | 7 | 62 | 16.577 | 34.781 | 2 | 19.48 | 2 | -3.7 | 3.1 | 2 | 2955 |
| 1 | 6 | 82 | 14.971 | 34.822 | 2 | 23.28 | 2 | 1.1 | 3.7 | 2 | 2959 |
| 1 | 5 | 101 | 14.560 | 34.829 | 2 | 23.29 | 2 | 8.0 | 3.1 | 2 | 2958 |
| 1 | 4 | 125 | 14.272 | 34.833 | 2 | 23.49 | 2 | 7.8 | 3.6 | 2 | 2957 |
| 1 | 3 | 149 | 13.845 | 34.832 | 2 | 24.50 | 2 | -5.4 | 3.1 | 2 | 2956 |

WOCE Cruise S4P
EXPOCODE: 90KDIOFFE6/1

2/24/92 - 4/6/92

Mikhail H. Koshlyakov and James G. Richman

Principal Investigator for $\Delta^{14}\text{C}$: P. Schlosser

NOSAMS Report: 98-122

Station 682

| | | Latitude | 67.468°S | | | Date | 2/22/92 | | | | |
|------|------|-----------|----------|--------|---|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 70.089°W | | | Bottom Depth | 236 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 8 | 13 | -0.090 | 33.314 | 2 | 63.40 | 2 | -122.8 | 2.7 | 2 | 13190 |
| 1 | 6 | 53 | -1.112 | 33.759 | 2 | 71.89 | 2 | -123.7 | 2.5 | 2 | 13187 |
| 1 | 4 | 103 | -1.532 | 34.025 | 2 | 77.06 | 2 | -124.6 | 3.3 | 2 | 13184 |
| 1 | 3 | 154 | -0.201 | 34.332 | 2 | 91.41 | 2 | -120.4 | 3.1 | 2 | 13172 |
| 1 | 1 | 218 | 0.979 | 34.593 | 2 | 104.30 | 2 | -145.2 | 3.1 | 2 | 13183 |

Station 683

| | | Latitude | 67.166°S | | | Date | 2/22/92 | | | | |
|------|------|-----------|----------|--------|---|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 70.089°W | | | Bottom Depth | 453 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 19 | 13 | 0.262 | 33.523 | 2 | 58.26 | 2 | -113.8 | 2.5 | 2 | 13189 |
| 1 | 18 | 29 | 0.067 | 33.702 | 2 | 58.46 | 2 | -111.4 | 3.2 | 2 | 13188 |
| 1 | 17 | 59 | -1.693 | 33.937 | 2 | 72.15 | 2 | -121.1 | 2.5 | 2 | 13186 |
| 1 | 16 | 78 | -1.633 | 33.967 | 2 | 73.67 | 2 | -120.4 | 2.6 | 2 | 13185 |
| 1 | 15 | 104 | -1.542 | 34.048 | 2 | 75.17 | 2 | -125.8 | 3.0 | 2 | 15453 |
| 1 | 14 | 154 | -0.580 | 34.254 | 2 | 85.63 | 2 | -118.7 | 2.9 | 2 | 13171 |
| 1 | 13 | 205 | 0.302 | 34.433 | 2 | 94.13 | 2 | -129.7 | 2.7 | 2 | 13170 |
| 1 | 12 | 255 | 0.911 | 34.569 | 2 | 99.81 | 2 | -137.0 | 3.2 | 2 | 13168 |
| 1 | 11 | 305 | 1.217 | 34.645 | 2 | 102.87 | 2 | -146.0 | 3.2 | 6 | 12803 |
| | | | | | | | | | | | 12821 |
| 1 | 10 | 381 | 1.294 | 34.682 | 2 | 107.92 | 2 | -147.4 | 5.7 | 6 | 12937 |
| | | | | | | | | | | | 12950 |
| 1 | 9 | 439 | 1.321 | 34.705 | 2 | 116.74 | 2 | -153.8 | 2.6 | 6 | 13035 |
| | | | | | | | | | | | 13049 |

Station 684

| | | Latitude | 66.895°S | | | Date | 2/23/92 | | | | |
|------|------|-----------|----------|--------|---|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 71.998°W | | | Bottom Depth | 445 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 11 | 11 | -0.176 | 33.546 | 2 | 64.36 | 2 | -111.2 | 4.3 | 2 | 12948 |
| 1 | 10 | 46 | -1.464 | 33.867 | 2 | 74.37 | 2 | -114.6 | 3.6 | 2 | 12947 |

Station 684

| | | Latitude | | 66.895°S | | Date | | 2/23/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 71.998°W | | Bottom Depth | | 445 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 8 | 92 | -1.645 | 33.990 | 2 | 74.49 | 2 | -118.6 | 3.1 | 2 | 12946 |
| 1 | 7 | 126 | -1.238 | 34.091 | 2 | 84.51 | 2 | -123.9 | 3.7 | 2 | 12945 |
| 1 | 6 | 162 | -0.707 | 34.208 | 3 | 83.58 | 2 | -125.1 | 3.3 | 2 | 12934 |
| 1 | 5 | 202 | 0.122 | 34.400 | 2 | 91.64 | 2 | -139.7 | 3.0 | 2 | 12933 |
| 1 | 4 | 253 | 0.784 | 34.544 | 2 | 99.72 | 2 | -147.7 | 3.6 | 2 | 12932 |
| 1 | 2 | 363 | 1.256 | 34.661 | 3 | 107.99 | 2 | -156.2 | 3.6 | 2 | 12931 |
| 1 | 1 | 417 | 1.291 | 34.682 | 2 | 119.47 | 2 | -156.0 | 4.3 | 2 | 12930 |

Station 685

| | | Latitude | | 66.800°S | | Date | | 2/23/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 72.250°W | | Bottom Depth | | 831 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 14 | 13 | 0.462 | 33.587 | 2 | 59.75 | 2 | -101.2 | 2.9 | 2 | 12071 |
| 1 | 13 | 43 | -0.077 | 33.783 | 2 | 58.86 | 2 | -104.3 | 2.9 | 2 | 12070 |
| 1 | 12 | 99 | -1.420 | 34.062 | 2 | 70.67 | 2 | -123.2 | 3.1 | 2 | 12069 |
| 1 | 11 | 154 | -0.674 | 34.243 | 2 | 84.24 | 2 | -130.2 | 3.0 | 2 | 12068 |
| 1 | 10 | 205 | 0.244 | 34.412 | 2 | 87.01 | 2 | -139.9 | 3.3 | 2 | 12067 |
| 1 | 9 | 253 | 1.077 | 34.544 | 2 | 88.06 | 2 | -149.4 | 3.0 | 2 | 12066 |
| 1 | 8 | 313 | 1.549 | 34.641 | 2 | 90.40 | 2 | -151.5 | 2.5 | 2 | 13114 |
| 1 | 7 | 378 | 1.537 | 34.679 | 2 | 95.57 | 2 | -155.7 | 3.0 | 2 | 12054 |
| 1 | 6 | 454 | 1.601 | 34.709 | 2 | 96.62 | 2 | -155.2 | 3.0 | 2 | 12929 |
| 1 | 5 | 530 | 1.522 | 34.721 | 2 | 99.20 | 2 | -152.0 | 3.5 | 2 | 12928 |
| 1 | 4 | 605 | 1.315 | 34.722 | 2 | 105.90 | 2 | -153.4 | 3.1 | 2 | 12927 |
| 1 | 3 | 681 | 1.090 | 34.715 | 2 | 111.76 | 2 | -158.6 | 3.1 | 2 | 12926 |
| 1 | 2 | 756 | 1.086 | 34.717 | 2 | 112.95 | 2 | -161.1 | 4.1 | 2 | 12925 |
| 1 | 1 | 812 | 1.076 | 34.717 | 2 | 113.13 | 2 | -152.7 | 5.4 | 2 | 12818 |

Station 686

| | | Latitude | | 66.782°S | | Date | | 2/23/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 72.264°W | | Bottom Depth | | 1571 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 18 | 14 | 0.402 | 33.586 | 2 | 60.29 | 2 | -95.0 | 3.9 | 2 | 13306 |
| 1 | 17 | 45 | 0.277 | 33.784 | 2 | 57.29 | 2 | -95.3 | 2.8 | 2 | 13305 |
| 1 | 16 | 88 | -1.490 | 34.043 | 2 | 70.89 | 2 | -116.2 | 4.2 | 2 | 13304 |
| 1 | 15 | 126 | -1.001 | 34.181 | 2 | 75.01 | 2 | -119.4 | 2.7 | 2 | 13303 |
| 1 | 14 | 192 | 0.591 | 34.438 | 2 | 81.29 | 2 | -126.7 | 2.7 | 2 | 13302 |
| 1 | 12 | 356 | 1.731 | 34.682 | 2 | 90.18 | 2 | -147.1 | 3.1 | 2 | 13317 |

Station 686

| | | Latitude | 66.782°S | | | | Date | 2/23/92 | | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|-------|--|
| | | Longitude | 72.264°W | | | | Bottom Depth | 1571 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 11 | 430 | 1.734 | 34.704 | 2 | 91.94 | 2 | -148.1 | 3.0 | 2 | 13316 | |
| 1 | 10 | 504 | 1.673 | 34.713 | 2 | 94.57 | 2 | -149.9 | 2.8 | 2 | 13315 | |
| 1 | 9 | 599 | 1.592 | 34.718 | 2 | 97.21 | 2 | -155.0 | 2.4 | 2 | 13314 | |
| 1 | 8 | 695 | 1.488 | 34.720 | 2 | 100.28 | 2 | -158.2 | 4.2 | 2 | 12053 | |
| 1 | 7 | 790 | 1.412 | 34.722 | 2 | 102.48 | 2 | -160.7 | 3.6 | 2 | 12052 | |
| 1 | 6 | 885 | 1.282 | 34.722 | 2 | 106.65 | 2 | -157.4 | 3.0 | 2 | 12051 | |
| 1 | 5 | 1030 | 1.123 | 34.720 | 2 | 111.49 | 2 | -164.0 | 4.9 | 2 | 12065 | |
| 1 | 4 | 1176 | 1.034 | 34.717 | 2 | 114.15 | 2 | -163.2 | 2.6 | 6 | 12050 | |
| | | | | | | | | | | | 12361 | |
| 1 | 3 | 1324 | 0.962 | 34.713 | 2 | 116.59 | 2 | -161.8 | 3.0 | 2 | 12049 | |
| 1 | 2 | 1426 | 0.908 | 34.712 | 2 | 118.38 | 2 | -168.5 | 3.2 | 2 | 12048 | |
| 1 | 1 | 1524 | 0.866 | 34.711 | 2 | 119.95 | 2 | -166.2 | 2.9 | 2 | 12047 | |

Station 687

| | | Latitude | 66.732°S | | | | Date | 2/24/92 | | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|-------|--|
| | | Longitude | 72.238°W | | | | Bottom Depth | 2430 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 2 | 21 | 13 | 0.363 | 33.563 | 2 | 60.36 | 2 | -94.4 | 4.0 | 2 | 12817 | |
| 2 | 19 | 58 | -1.119 | 33.906 | 2 | 51.47 | 2 | -96.8 | 3.8 | 2 | 12816 | |
| 2 | 17 | 151 | 0.787 | 34.382 | 2 | 71.72 | 2 | -113.9 | 8.6 | 2 | 12815 | |
| 2 | 14 | 287 | 1.903 | 34.637 | 2 | 84.45 | 2 | -131.6 | 4.0 | 2 | 12814 | |
| 2 | 11 | 603 | 1.673 | 34.717 | 2 | 95.71 | 2 | -140.5 | 4.1 | 2 | 12812 | |
| 2 | 7 | 1207 | 1.161 | 34.727 | 3 | 111.51 | 2 | -160.4 | 2.6 | 2 | 13313 | |
| 2 | 6 | 1357 | 1.053 | 34.719 | 2 | 114.94 | 2 | -161.3 | 2.4 | 2 | 13312 | |
| 2 | 5 | 1613 | 0.927 | 34.713 | 2 | 118.37 | 2 | -163.6 | 5.0 | 6 | 13600 | |
| | | | | | | | | | | | 14875 | |
| 2 | 4 | 1815 | 0.812 | 34.711 | 2 | 122.47 | 2 | -164.9 | 3.0 | 2 | 13015 | |
| 2 | 3 | 2017 | 0.664 | 34.706 | 2 | 126.80 | 2 | -153.6 | 2.9 | 2 | 13311 | |
| 2 | 2 | 2221 | 0.561 | 34.704 | 2 | 129.60 | 2 | -158.0 | 2.3 | 2 | 13310 | |
| 2 | 1 | 2410 | 0.474 | 34.700 | 3 | 132.85 | 2 | -159.1 | 4.4 | 2 | 13234 | |

Station 688

| | | Latitude | | 66.685°S | | Date | | 2/24/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|----------------|
| | | Longitude | | 72.265°W | | Bottom Depth | | 3098 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 24 | 16 | 0.702 | 33.756 | 2 | 49.23 | 2 | -81.6 | 2.1 | 6 | 13651 16373 |
| 1 | 23 | 45 | 0.684 | 33.775 | 2 | 51.14 | 2 | -90.2 | 3.1 | 6 | 13650 16372 |
| 1 | 22 | 76 | -1.251 | 33.994 | 2 | 55.18 | 2 | -101.5 | 3.4 | 2 | 16371 |
| 1 | 21 | 116 | -0.358 | 34.201 | 2 | 65.19 | 2 | -113.6 | 2.7 | 6 | 13648 16370 |
| 1 | 20 | 156 | 0.463 | 34.357 | 2 | 73.29 | 2 | -138.0 | 2.1 | 6 | 13647 16232 |
| 1 | 19 | 206 | 1.449 | 34.514 | 2 | 78.62 | 2 | -136.7 | 1.9 | 6 | 13646 16231 |
| 1 | 18 | 257 | 1.702 | 34.582 | 2 | 81.82 | 2 | -144.7 | 2.6 | 6 | 13645 16230 |
| 1 | 17 | 306 | 1.818 | 34.622 | 2 | 83.74 | 2 | -152.5 | 2.8 | 2 | 16229 |
| 1 | 16 | 381 | 1.891 | 34.664 | 2 | 85.87 | 2 | -163.8 | 2.7 | 2 | 16228 |
| 1 | 15 | 456 | 1.907 | 34.693 | 2 | 87.58 | 2 | -160.5 | 5.0 | 2 | 16227 |
| 1 | 14 | 531 | 1.868 | 34.706 | 2 | 89.50 | 2 | -163.2 | 3.5 | 2 | 16226 |
| 1 | 12 | 757 | 1.674 | 34.726 | 2 | 95.49 | 2 | -164.4 | 9.4 | 2 | 13628 |
| 1 | 11 | 907 | 1.543 | 34.729 | 2 | 99.14 | 2 | -169.4 | 3.7 | 6 | 13627 16224 |
| 1 | 10 | 1110 | 1.358 | 34.727 | 2 | 104.73 | 2 | -165.2 | 4.0 | 2 | 16223 |
| 1 | 9 | 1310 | 1.206 | 34.723 | 2 | 109.70 | 2 | -167.5 | 3.0 | 2 | 16187 |
| 1 | 8 | 1512 | 1.070 | 34.719 | 2 | 114.24 | 2 | -164.6 | 2.3 | 2 | 16186 |
| 1 | 7 | 1712 | 0.938 | 34.714 | 2 | 118.14 | 2 | -164.9 | 2.6 | 2 | 16185 |
| 1 | 6 | 1913 | 0.807 | 34.710 | 2 | 122.49 | 2 | -165.5 | 2.8 | 2 | 16184 |
| 1 | 5 | 2166 | 0.654 | 34.706 | 2 | 127.08 | 2 | -164.8 | 2.8 | 2 | 16183 |
| 1 | 4 | 2420 | 0.511 | 34.703 | 2 | 131.68 | 2 | -167.8 | 2.4 | 2 | 16182 |
| 1 | 3 | 2675 | 0.433 | 34.701 | 2 | 134.76 | 2 | -174.7 | 2.4 | 2 | 16181 |
| 1 | 2 | 2933 | 0.401 | 34.701 | 2 | 137.18 | 2 | -171.6 | 2.7 | 2 | 16180 |
| 1 | 1 | 3087 | 0.403 | 34.701 | 2 | 137.84 | 2 | -166.2 | 2.5 | 2 | 16179 |

Station 691

| | | Latitude | | 65.906°S | | Date | | 2/24/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 75.013°W | | Bottom Depth | | 4037 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 23 | 47 | 0.085 | 33.730 | 2 | 37.84 | 2 | -78.4 | 2.8 | 2 | 13074 |
| 1 | 22 | 87 | -1.335 | 33.981 | 2 | 46.39 | 2 | -82.7 | 3.7 | 2 | 13062 |
| 1 | 21 | 128 | -0.894 | 34.091 | 2 | 52.53 | 2 | -94.4 | 3.0 | 2 | 13073 |
| 1 | 20 | 168 | 0.247 | 34.218 | 2 | 58.67 | 2 | -99.0 | 5.7 | 2 | 13058 |
| 1 | 19 | 208 | 1.252 | 34.368 | 2 | 66.80 | 2 | -113.6 | 7.2 | 2 | 13057 |

Station 691

| | | Latitude | 65.906°S | | | | Date | 2/24/92 | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|-------|
| | | Longitude | 75.013°W | | | | Bottom Depth | 4037 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 18 | 259 | 1.566 | 34.443 | 2 | 71.64 | 2 | -124.4 | 3.3 | 2 | 13056 |
| 1 | 17 | 309 | 1.854 | 34.514 | 2 | 75.82 | 2 | -131.7 | 4.1 | 2 | 12206 |
| 1 | 16 | 410 | 1.976 | 34.589 | 2 | 80.45 | 2 | -142.9 | 3.6 | 2 | 12205 |
| 1 | 15 | 511 | 2.039 | 34.635 | 2 | 82.87 | 2 | -145.0 | 3.6 | 2 | 12204 |
| 1 | 14 | 659 | 2.007 | 34.677 | 2 | 85.74 | 2 | -144.7 | 3.6 | 2 | 12203 |
| 1 | 13 | 811 | 1.915 | 34.704 | 2 | 88.83 | 2 | -156.7 | 3.4 | 2 | 12202 |
| 1 | 12 | 1012 | 1.775 | 34.719 | 3 | 93.70 | 2 | -147.3 | 3.5 | 2 | 12201 |
| 1 | 11 | 1263 | 1.577 | 34.727 | 3 | 99.47 | 2 | -147.5 | 4.8 | 2 | 12200 |
| 1 | 10 | 1516 | 1.380 | 34.724 | 3 | 105.70 | 2 | -151.1 | 3.7 | 2 | 12198 |
| 1 | 9 | 1770 | 1.212 | 34.718 | 3 | 111.06 | 2 | -153.6 | 4.0 | 2 | 12197 |
| 1 | 8 | 2024 | 1.061 | 34.714 | 3 | 116.21 | 2 | -150.0 | 3.1 | 2 | 12196 |
| 1 | 6 | 2635 | 0.751 | 34.704 | 3 | 126.12 | 2 | -160.6 | 3.0 | 2 | 12195 |
| 1 | 5 | 2940 | 0.611 | 34.699 | 3 | 129.97 | 2 | -159.7 | 3.1 | 2 | 12194 |
| 1 | 4 | 3242 | 0.484 | 34.697 | 3 | 133.61 | 2 | -166.1 | 3.2 | 2 | 12193 |
| 1 | 3 | 3546 | 0.420 | 34.696 | 3 | 137.71 | 2 | -161.6 | 3.4 | 2 | 12192 |
| 1 | 2 | 3849 | 0.390 | 34.700 | 2 | 139.55 | 2 | -159.1 | 3.2 | 2 | 12191 |
| 1 | 1 | 4066 | 0.360 | 34.697 | 3 | 142.53 | 2 | -161.8 | 3.2 | 2 | 12189 |

Station 698

| | | Latitude | 66.998°S | | | | Date | 2/26/92 | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|-------|
| | | Longitude | 82.233°W | | | | Bottom Depth | 4262 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 46 | 0.669 | 33.756 | 2 | 28.71 | 2 | -62.9 | 3.1 | 2 | 13039 |
| 1 | 23 | 95 | -1.347 | 33.892 | 2 | 34.68 | 2 | -65.1 | 2.9 | 2 | 13038 |
| 1 | 22 | 147 | -0.734 | 34.020 | 2 | 42.16 | 2 | -75.9 | 2.8 | 2 | 13037 |
| 1 | 21 | 186 | -0.044 | 34.123 | 2 | 49.42 | 2 | -90.7 | 3.3 | 2 | 13036 |
| 1 | 20 | 246 | 1.005 | 34.274 | 2 | 59.69 | 2 | -108.7 | 2.8 | 2 | 13034 |
| 1 | 19 | 306 | 1.624 | 34.390 | 2 | 67.18 | 2 | -123.7 | 3.5 | 2 | 13033 |
| 1 | 18 | 407 | 1.971 | 34.510 | 2 | 74.88 | 2 | -133.3 | 3.6 | 2 | 13032 |
| 1 | 17 | 508 | 1.973 | 34.561 | 2 | 78.51 | 2 | -139.4 | 3.1 | 2 | 13031 |
| 1 | 16 | 608 | 1.987 | 34.609 | 2 | 81.49 | 2 | -141.1 | 3.0 | 2 | 13030 |
| 1 | 15 | 809 | 2.026 | 34.679 | 2 | 86.20 | 2 | -148.3 | 3.0 | 2 | 13029 |
| 1 | 14 | 1012 | 1.909 | 34.711 | 2 | 89.83 | 2 | -146.1 | 3.0 | 2 | 13028 |
| 1 | 13 | 1213 | 1.770 | 34.724 | 2 | 94.34 | 2 | -149.8 | 3.1 | 2 | 13027 |
| 1 | 12 | 1415 | 1.606 | 34.730 | 2 | 98.85 | 2 | -152.4 | 3.1 | 2 | 13026 |
| 1 | 11 | 1719 | 1.379 | 34.725 | 2 | 106.42 | 2 | -159.7 | 3.7 | 2 | 13055 |
| 1 | 10 | 2025 | 1.191 | 34.721 | 2 | 112.28 | 2 | -164.8 | 4.8 | 2 | 13054 |
| 1 | 9 | 2330 | 1.017 | 34.715 | 2 | 117.72 | 2 | -161.7 | 3.8 | 2 | 13053 |
| 1 | 8 | 2635 | 0.853 | 34.710 | 2 | 123.39 | 2 | -155.2 | 3.6 | 2 | 13052 |

Station 703

| | | Latitude | 67.001°S | | | Date | 2/28/92 | | | | |
|------|------|-------------|------------|--------|---|---------------|---------|----------------------------|----------|---|----------------|
| | | Longitude | 88.534°W | | | Bottom Depth | 4437 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 2 | 4167 | 0.394 | 34.700 | 2 | 137.23 | 2 | -161.0 | 2.3 | 6 | 13635 16451 |
| 1 | 7 | 4478 | 0.362 | 34.700 | 2 | 144.36 | 2 | -156.9 | 2.2 | 6 | 13634 16374 |

Station 710

| | | Latitude | 66.987°S | | | Date | 3/2/92 | | | | |
|------|------|-------------|------------|--------|---|---------------|--------|----------------------------|----------|---|-------|
| | | Longitude | 99.980°W | | | Bottom Depth | 4718 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 24 | 13 | 0.770 | 33.813 | 2 | 22.67 | 2 | -60.4 | 3.2 | 2 | 12922 |
| 1 | 23 | 54 | 0.634 | 33.810 | 2 | 24.38 | 2 | -61.8 | 3.4 | 2 | 13019 |
| 1 | 22 | 84 | 0.165 | 33.843 | 2 | 25.53 | 2 | -56.1 | 3.2 | 2 | 12944 |
| 1 | 21 | 129 | -0.391 | 33.989 | 2 | 34.89 | 2 | -63.6 | 3.2 | 2 | 12943 |
| 1 | 20 | 185 | 0.081 | 34.094 | 2 | 44.45 | 2 | -82.0 | 3.3 | 2 | 12942 |
| 1 | 19 | 256 | 1.694 | 34.342 | 2 | 60.34 | 2 | -106.1 | 3.0 | 2 | 12941 |
| 1 | 18 | 356 | 1.864 | 34.466 | 2 | 70.71 | 2 | -127.8 | 3.7 | 2 | 12940 |
| 1 | 17 | 455 | 1.915 | 34.545 | 2 | 76.49 | 2 | -138.2 | 3.1 | 2 | 12939 |
| 1 | 16 | 556 | 1.909 | 34.591 | 2 | 79.77 | 2 | -143.9 | 2.5 | 2 | 12938 |
| 1 | 15 | 656 | 1.997 | 34.638 | 2 | 82.13 | 2 | -140.8 | 3.8 | 2 | 13112 |
| 1 | 14 | 756 | 2.010 | 34.668 | 2 | 83.84 | 2 | -149.3 | 2.5 | 2 | 12936 |
| 1 | 13 | 903 | 1.947 | 34.697 | 2 | 86.79 | 2 | -157.4 | 4.9 | 2 | 13113 |
| 1 | 12 | 1195 | 1.749 | 34.726 | 2 | 93.02 | 2 | -153.0 | 3.2 | 2 | 12924 |
| 1 | 26 | 1488 | 1.532 | 34.728 | 2 | 100.07 | 2 | -157.6 | 3.7 | 2 | 12923 |
| 1 | 10 | 1841 | 1.307 | 34.725 | 2 | 106.98 | 2 | -153.4 | 3.7 | 2 | 12920 |
| 1 | 8 | 2563 | 0.920 | 34.712 | 2 | 120.11 | 2 | -160.2 | 2.4 | 2 | 13099 |
| 1 | 7 | 2920 | 0.772 | 34.706 | 2 | 125.14 | 2 | -166.1 | 2.8 | 2 | 13081 |
| 1 | 6 | 3271 | 0.629 | 34.703 | 2 | 128.39 | 2 | -164.8 | 2.5 | 2 | 13080 |
| 1 | 5 | 3629 | 0.504 | 34.702 | 2 | 132.95 | 2 | -180.4 | 2.7 | 2 | 13079 |
| 1 | 4 | 3988 | 0.434 | 34.701 | 2 | 136.79 | 2 | -170.0 | 2.5 | 2 | 13078 |
| 1 | 3 | 4298 | 0.391 | 34.700 | 2 | 138.66 | 2 | -164.1 | 2.4 | 2 | 13077 |
| 1 | 2 | 4617 | 0.353 | 34.700 | 2 | 146.59 | 2 | -161.9 | 3.3 | 2 | 13076 |
| 1 | 1 | 4780 | 0.356 | 34.701 | 2 | 144.32 | 2 | -158.8 | 2.6 | 2 | 13075 |

Station 716

| | | Latitude | | 67.003°S | | Date | | 3/4/92 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|----------------|
| | | Longitude | | 88.534° | | Bottom Depth | | 4388 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 13 | 0.408 | 33.757 | 2 | 41.37 | 2 | -78.1 | 4.0 | 2 | 13633 |
| 1 | 23 | 54 | 0.337 | 33.779 | 2 | 43.43 | 2 | -85.5 | 3.1 | 2 | 15455 |
| 1 | 22 | 74 | -0.536 | 33.886 | 2 | 44.99 | 2 | -84.8 | 3.4 | 2 | 13623 |
| 1 | 21 | 124 | -1.143 | 34.054 | 2 | 53.29 | 2 | -97.3 | 2.6 | 2 | 13622 |
| 1 | 20 | 164 | -0.400 | 34.182 | 2 | 58.76 | 2 | -101.0 | 2.6 | 2 | 13621 |
| 1 | 19 | 204 | 0.957 | 34.372 | 2 | 68.63 | 2 | -123.3 | 3.8 | 2 | 13620 |
| 1 | 18 | 254 | 1.490 | 34.477 | 2 | 74.39 | 2 | -131.7 | 4.2 | 2 | 13619 |
| 1 | 17 | 304 | 1.732 | 34.540 | 2 | 77.81 | 2 | -142.5 | 3.4 | 2 | 13906 |
| 1 | 16 | 404 | 1.896 | 34.606 | 2 | 81.13 | 2 | -141.7 | 3.3 | 2 | 13448 |
| 1 | 15 | 505 | 1.954 | 34.684 | 4 | 83.18 | 2 | -143.0 | 2.6 | 2 | 13218 |
| 1 | 14 | 606 | 1.947 | 34.684 | 2 | 85.82 | 2 | -146.7 | 2.9 | 2 | 13217 |
| 1 | 13 | 707 | 1.909 | 34.703 | 2 | 87.77 | 2 | -143.8 | 2.9 | 2 | 13196 |
| 1 | 12 | 908 | 1.776 | 34.724 | 2 | 92.17 | 2 | -148.8 | 2.5 | 2 | 13195 |
| 1 | 26 | 1212 | 1.546 | 34.730 | 2 | 98.91 | 2 | -158.1 | 2.9 | 2 | 13194 |
| 1 | 10 | 1513 | 1.336 | 34.727 | 2 | 105.95 | 2 | -157.4 | 2.5 | 2 | 13193 |
| 1 | 27 | 1866 | 1.119 | 34.720 | 2 | 112.69 | 2 | -162.9 | 2.7 | 2 | 13192 |
| 1 | 8 | 2116 | 0.970 | 34.715 | 2 | 117.48 | 2 | -154.0 | 2.6 | 2 | 13182 |
| 1 | 7 | 2462 | 0.809 | 34.709 | 2 | 123.54 | 2 | -156.1 | 3.3 | 2 | 13181 |
| 1 | 6 | 2818 | 0.669 | 34.705 | 2 | 127.26 | 2 | -147.7 | 2.6 | 2 | 13180 |
| 1 | 5 | 3180 | 0.521 | 34.703 | 2 | 131.66 | 2 | -149.8 | 3.1 | 2 | 13179 |
| 1 | 4 | 3539 | 0.430 | 34.702 | 2 | 136.35 | 2 | -155.5 | 2.8 | 2 | 13178 |
| 1 | 3 | 3899 | 0.370 | 34.701 | 2 | 135.96 | 2 | -151.3 | 3.0 | 2 | 13177 |
| 1 | 2 | 4260 | 0.328 | 34.701 | 2 | 139.96 | 2 | -153.0 | 13.5 | 6 | 13176 15454 |
| 1 | 1 | 4434 | 0.325 | 34.700 | 2 | 144.75 | 2 | -152.9 | 2.9 | 2 | 13175 |

Station 722

| | | Latitude | | 67.002°S | | Date | | 3/7/92 | | | |
|------|------|-----------|---------|----------|---|--------------|---|---------------------|-------|---|-------|
| | | Longitude | | 120.46°W | | Bottom Depth | | 4555 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 13 | 0.763 | 33.676 | 2 | 23.87 | 2 | -62.1 | 3.7 | 2 | 12459 |
| 1 | 23 | 53 | 0.747 | 33.677 | 2 | 24.06 | 2 | -62.5 | 3.0 | 2 | 15458 |
| 1 | 22 | 79 | -0.656 | 33.877 | 2 | 37.06 | 2 | -74.4 | 2.8 | 2 | 13334 |
| 1 | 21 | 103 | -0.775 | 33.946 | 2 | 41.26 | 2 | -85.4 | 3.7 | 2 | 12529 |
| 1 | 20 | 134 | -0.632 | 34.014 | 2 | 45.27 | 2 | -94.4 | 3.4 | 2 | 15457 |
| 1 | 19 | 204 | 0.732 | 34.281 | 2 | 61.15 | 2 | -118.7 | 4.2 | 2 | 12527 |
| 1 | 18 | 254 | 1.462 | 34.430 | 2 | 71.11 | 2 | -130.6 | 4.0 | 2 | 12526 |
| 1 | 17 | 304 | 1.722 | 34.509 | 2 | 75.71 | 2 | -135.7 | 3.6 | 2 | 12525 |
| 1 | 16 | 404 | 1.880 | 34.587 | 2 | 80.12 | 2 | -133.7 | 5.3 | 2 | 12524 |

Station 722

| | | Latitude | | 67.002°S | | Date | | 3/7/92 | | | |
|------|------|-------------|------------|----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 120.46°W | | Bottom Depth | | 4555 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 15 | 505 | 1.943 | 34.642 | 2 | 83.19 | 2 | -136.2 | 5.8 | 2 | 12523 |
| 1 | 14 | 605 | 1.955 | 34.676 | 2 | 85.49 | 2 | -143.3 | 3.0 | 2 | 12952 |
| 1 | 13 | 807 | 1.869 | 34.711 | 2 | 89.35 | 2 | -151.7 | 7.1 | 2 | 12515 |
| 1 | 12 | 1008 | 1.722 | 34.726 | 2 | 93.99 | 2 | -163.4 | 3.8 | 2 | 12514 |
| 1 | 26 | 1311 | 1.476 | 34.729 | 2 | 101.17 | 2 | -160.8 | 3.9 | 2 | 12513 |
| 1 | 10 | 1612 | 1.262 | 34.724 | 2 | 108.20 | 2 | -161.8 | 4.0 | 2 | 12512 |
| 1 | 27 | 1915 | 1.077 | 34.718 | 2 | 114.30 | 2 | -166.4 | 3.3 | 2 | 12511 |
| 1 | 8 | 2271 | 0.895 | 34.710 | 2 | 120.63 | 2 | -171.9 | 4.0 | 2 | 13618 |
| 1 | 7 | 2628 | 0.741 | 34.706 | 2 | 125.81 | 2 | -163.3 | 3.0 | 2 | 13617 |
| 1 | 6 | 2984 | 0.595 | 34.703 | 2 | 129.21 | 2 | -155.9 | 3.0 | 2 | 15456 |
| 1 | 5 | 3341 | 0.461 | 34.701 | 2 | 132.03 | 2 | -167.4 | 3.2 | 2 | 13615 |
| 1 | 4 | 3700 | 0.385 | 34.700 | 2 | 135.87 | 2 | -167.0 | 2.7 | 2 | 13614 |
| 1 | 3 | 4059 | 0.338 | 34.700 | 2 | 139.13 | 2 | -166.9 | 2.6 | 2 | 13613 |
| 1 | 2 | 4423 | 0.315 | 34.700 | 2 | 139.72 | 2 | -162.9 | 5.0 | 2 | 13612 |
| 1 | 1 | 4600 | 0.296 | 34.700 | 2 | 140.32 | 2 | -158.6 | 2.7 | 2 | 13611 |

Station 726

| | | Latitude | | 66.982°S | | Date | | 3/7/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 127.236°W | | Bottom Depth | | 4465 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 12 | 0.453 | 33.473 | 2 | 50.74 | 2 | -80.9 | 6.2 | 2 | 13215 |
| 1 | 23 | 42 | 0.219 | 33.510 | 2 | 51.09 | 2 | -77.4 | 6.3 | 2 | 13228 |
| 1 | 22 | 83 | -1.598 | 33.991 | 2 | 50.28 | 2 | -92.1 | 4.8 | 2 | 11993 |
| 1 | 21 | 113 | -1.580 | 34.035 | 2 | 53.13 | 2 | -104.0 | 4.2 | 2 | 11991 |
| 1 | 20 | 154 | -0.746 | 34.183 | 2 | 60.95 | 2 | -106.0 | 4.2 | 2 | 11990 |
| 1 | 19 | 204 | 0.353 | 34.356 | 2 | 70.12 | 2 | -116.0 | 7.2 | 2 | 11988 |
| 1 | 18 | 254 | 1.280 | 34.535 | 2 | 79.60 | 2 | -123.1 | 4.3 | 2 | 11987 |
| 1 | 17 | 306 | 1.732 | 34.623 | 2 | 84.29 | 2 | -130.3 | 4.1 | 2 | 11985 |
| 1 | 16 | 405 | 1.858 | 34.678 | 2 | 87.09 | 2 | -145.4 | 2.6 | 2 | 11984 |
| 1 | 15 | 606 | 1.804 | 34.715 | 2 | 90.92 | 2 | -141.2 | 2.6 | 2 | 11983 |
| 1 | 14 | 807 | 1.658 | 34.726 | 2 | 95.54 | 2 | -149.9 | 3.0 | 2 | 13233 |
| 1 | 13 | 1008 | 1.493 | 34.729 | 2 | 101.34 | 2 | -152.1 | 2.7 | 2 | 13232 |
| 1 | 12 | 1312 | 1.270 | 34.725 | 2 | 107.76 | 2 | -153.7 | 2.5 | 2 | 13231 |
| 1 | 26 | 1612 | 1.082 | 34.718 | 2 | 113.82 | 2 | -153.6 | 2.6 | 2 | 13230 |
| 1 | 10 | 1912 | 0.929 | 34.714 | 2 | 119.13 | 2 | -156.8 | 2.7 | 2 | 13229 |
| 1 | 27 | 2215 | 0.792 | 34.707 | 2 | 123.67 | 2 | -160.2 | 2.7 | 2 | 13216 |
| 1 | 8 | 2512 | 0.671 | 34.705 | 2 | 127.44 | 2 | -151.1 | 2.8 | 6 | 13214 13897 |
| 1 | 7 | 2801 | 0.567 | 34.703 | 2 | 130.02 | 2 | -159.9 | 2.6 | 2 | 13213 |

Station 736

| | | Latitude | | 66.991°S | | Date | | 3/10/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 135.834°W | | Bottom Depth | | 4175 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 13 | 0.736 | 33.625 | 2 | 29.53 | 2 | -69.8 | 3.0 | 2 | 13087 |
| 1 | 23 | 53 | 0.596 | 33.636 | 2 | 30.67 | 2 | -71.5 | 2.5 | 2 | 13086 |
| 1 | 22 | 84 | -1.680 | 33.910 | 2 | 48.13 | 2 | -77.3 | 2.6 | 2 | 13085 |
| 1 | 21 | 113 | -1.734 | 33.984 | 2 | 54.59 | 2 | -88.2 | 3.1 | 2 | 13084 |
| 1 | 20 | 154 | -0.706 | 34.169 | 2 | 62.20 | 2 | -100.8 | 3.0 | 2 | 13083 |
| 1 | 19 | 193 | 0.463 | 34.435 | 2 | 77.07 | 2 | -129.1 | 2.7 | 2 | 13082 |
| 1 | 18 | 254 | 1.544 | 34.624 | 2 | 85.11 | 2 | -144.3 | 3.1 | 2 | 13050 |
| 1 | 17 | 354 | 1.724 | 34.693 | 2 | 88.95 | 2 | -149.2 | 3.6 | 2 | 13048 |
| 1 | 16 | 453 | 1.652 | 34.715 | 2 | 92.81 | 2 | -138.9 | 3.3 | 2 | 12544 |
| 1 | 15 | 604 | 1.522 | 34.725 | 2 | 98.22 | 2 | -143.1 | 3.5 | 2 | 12543 |
| 1 | 14 | 753 | 1.394 | 34.727 | 2 | 102.49 | 2 | -151.7 | 4.7 | 2 | 12542 |
| 1 | 13 | 904 | 1.271 | 34.726 | 2 | 107.17 | 2 | -149.2 | 4.0 | 2 | 12541 |
| 1 | 12 | 1104 | 1.134 | 34.721 | 2 | 112.07 | 2 | -149.0 | 3.2 | 2 | 12540 |
| 1 | 26 | 1305 | 1.011 | 34.716 | 2 | 116.01 | 2 | -153.3 | 3.8 | 2 | 12539 |
| 1 | 10 | 1611 | 0.842 | 34.710 | 2 | 121.36 | 2 | -154.7 | 4.8 | 2 | 12538 |
| 1 | 27 | 1916 | 0.715 | 34.705 | 2 | 125.75 | 2 | -154.2 | 3.5 | 2 | 12458 |
| 1 | 8 | 2222 | 0.603 | 34.703 | 2 | 128.16 | 2 | -154.0 | 5.6 | 2 | 12457 |
| 1 | 7 | 2527 | 0.487 | 34.700 | 2 | 130.18 | 2 | -159.1 | 2.9 | 2 | 12456 |
| 1 | 6 | 2834 | 0.394 | 34.700 | 2 | 132.81 | 2 | -148.9 | 8.2 | 2 | 15078 |
| 1 | 5 | 3190 | 0.306 | 34.700 | 2 | 134.44 | 2 | -117.9 | 5.9 | 3 | 15995 |
| 1 | 28 | 3550 | 0.222 | 34.698 | 2 | 131.81 | 2 | -119.5 | 4.0 | 3 | 12535 15994 |
| 1 | 3 | 3857 | 0.156 | 34.698 | 2 | 124.19 | 2 | -105.4 | 3.9 | 3 | 15462 |
| 1 | 2 | 4062 | 0.148 | 34.698 | 2 | 122.40 | 2 | -108.3 | 5.3 | 3 | 15461 |
| 1 | 1 | 4223 | 0.154 | 34.697 | 2 | 122.01 | 2 | -105.1 | 7.4 | 3 | 15460 |

Station 740

| | | Latitude | | 67.007°S | | Date | | 3/12/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 147.483°W | | Bottom Depth | | 4457 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 13 | 0.684 | 33.729 | 2 | 40.88 | 2 | -73.0 | 4.2 | 2 | 12570 |
| 1 | 23 | 53 | 0.615 | 33.750 | 2 | 41.47 | 2 | -73.7 | 3.4 | 2 | 12569 |
| 1 | 22 | 85 | -1.728 | 33.976 | 2 | 54.28 | 2 | -89.0 | 3.2 | 2 | 12568 |
| 1 | 21 | 126 | -1.664 | 34.067 | 2 | 61.90 | 2 | -96.9 | 3.8 | 2 | 12567 |
| 1 | 20 | 176 | -0.404 | 34.331 | 2 | 76.55 | 2 | -116.8 | 3.8 | 2 | 12566 |
| 1 | 19 | 236 | 0.959 | 34.635 | 2 | 97.06 | 2 | -142.5 | 3.2 | 2 | 12565 |
| 1 | 18 | 306 | 1.302 | 34.718 | 2 | 105.27 | 2 | -150.1 | 3.3 | 2 | 12564 |
| 1 | 17 | 407 | 1.255 | 34.724 | 2 | 108.98 | 2 | -143.7 | 3.7 | 2 | 12563 |
| 1 | 16 | 508 | 1.183 | 34.724 | 2 | 111.42 | 2 | -149.9 | 3.7 | 2 | 12562 |

Station 740

| | | Latitude | | 67.007°S | | Date | | 3/12/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 147.483°W | | Bottom Depth | | 4457 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 15 | 607 | 1.115 | 34.722 | 2 | 112.99 | 2 | -152.2 | 3.6 | 2 | 12561 |
| 1 | 14 | 807 | 0.990 | 34.718 | 2 | 116.11 | 2 | -148.3 | 3.8 | 2 | 12560 |
| 1 | 13 | 1011 | 0.869 | 34.713 | 2 | 119.63 | 2 | -158.9 | 3.6 | 2 | 12559 |
| 1 | 12 | 1312 | 0.731 | 34.709 | 2 | 124.03 | 2 | -158.7 | 3.4 | 2 | 12558 |
| 1 | 26 | 1618 | 0.620 | 34.702 | 4 | 127.94 | 4 | -165.9 | 3.1 | 2 | 12557 |
| 1 | 10 | 1924 | 0.505 | 34.701 | 2 | 128.72 | 2 | -164.7 | 4.3 | 2 | 12556 |
| 1 | 27 | 2228 | 0.397 | 34.700 | 2 | 130.97 | 2 | -160.4 | 3.2 | 2 | 12545 |
| 1 | 8 | 2531 | 0.314 | 34.700 | 2 | 132.83 | 2 | -153.1 | 2.7 | 2 | 13047 |
| 1 | 7 | 2835 | 0.243 | 34.699 | 2 | 131.95 | 2 | -157.8 | 3.3 | 2 | 13046 |
| 1 | 6 | 3144 | 0.159 | 34.698 | 2 | 127.65 | 2 | -161.1 | 4.4 | 2 | 13045 |
| 1 | 5 | 3449 | 0.106 | 34.697 | 2 | 121.00 | 2 | -154.9 | 4.2 | 2 | 13044 |
| 1 | 28 | 3753 | 0.104 | 34.697 | 2 | 119.83 | 2 | -150.7 | 2.9 | 2 | 13043 |
| 1 | 3 | 4059 | 0.124 | 34.699 | 3 | 120.03 | 2 | -163.6 | 4.3 | 3 | 15996 |
| 1 | 2 | 4365 | 0.150 | 34.697 | 2 | 120.81 | 2 | -152.4 | 2.8 | 2 | 13041 |
| 1 | 1 | 4498 | 0.164 | 34.697 | 2 | 120.91 | 2 | -154.1 | 3.4 | 2 | 13040 |

Station 744

| | | Latitude | | 66.967°S | | Date | | 3/13/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 154.328°W | | Bottom Depth | | 4251 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 12 | 0.460 | 33.779 | 2 | 54.67 | 2 | -84.7 | 2.7 | 2 | 13167 |
| 1 | 23 | 42 | 0.460 | 33.779 | 2 | 54.87 | 2 | -89.4 | 2.8 | 2 | 13166 |
| 1 | 22 | 77 | -1.438 | 34.184 | 2 | 61.31 | 2 | -112.8 | 2.6 | 2 | 13165 |
| 1 | 21 | 123 | -0.168 | 34.394 | 2 | 75.38 | 2 | -125.5 | 2.7 | 2 | 13164 |
| 1 | 20 | 163 | 0.774 | 34.559 | 2 | 85.53 | 2 | -139.9 | 2.7 | 2 | 13163 |
| 1 | 19 | 203 | 1.335 | 34.670 | 2 | 92.66 | 2 | -150.8 | 2.7 | 2 | 13098 |
| 1 | 18 | 251 | 1.466 | 34.707 | 2 | 96.57 | 2 | -149.9 | 2.5 | 2 | 13097 |
| 1 | 17 | 299 | 1.444 | 34.719 | 2 | 99.30 | 2 | -154.3 | 2.8 | 2 | 13096 |
| 1 | 16 | 401 | 1.366 | 34.724 | 2 | 103.41 | 2 | -155.3 | 3.3 | 2 | 13610 |
| 1 | 15 | 498 | 1.300 | 34.726 | 2 | 106.24 | 2 | -155.4 | 2.5 | 2 | 13609 |
| 1 | 14 | 594 | 1.234 | 34.725 | 2 | 108.98 | 2 | -158.7 | 3.0 | 2 | 13608 |
| 1 | 13 | 781 | 1.101 | 34.722 | 2 | 112.60 | 2 | -163.4 | 2.4 | 2 | 13593 |
| 1 | 12 | 979 | 0.980 | 34.718 | 2 | 116.11 | 2 | -164.3 | 3.0 | 2 | 13592 |
| 1 | 26 | 1292 | 0.799 | 34.702 | 4 | 122.76 | 4 | -154.1 | 4.6 | 2 | 13590 |
| 1 | 10 | 1602 | 0.670 | 34.702 | 2 | 128.43 | 2 | -166.6 | 2.4 | 6 | 13589 |
| | | | | | | | | | | | 15998 |
| 1 | 27 | 1901 | 0.560 | 34.702 | 2 | 127.94 | 2 | -148.8 | 7.2 | 2 | 15997 |
| 1 | 8 | 2200 | 0.447 | 34.699 | 4 | 126.87 | 4 | -155.2 | 2.4 | 2 | 13444 |
| 1 | 7 | 2557 | 0.340 | 34.699 | 2 | 131.85 | 2 | -164.0 | 2.4 | 2 | 13443 |

Station 744

| | | Latitude | 66.967°S | | Date | | 3/13/92 | | | | |
|------|------|-------------|------------|--------|--------------|---------------|---------|------------------------|----------|---|-------|
| | | Longitude | 154.328°W | | Bottom Depth | | 4251 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 6 | 2907 | 0.254 | 34.699 | 2 | 132.05 | 2 | -166.4 | 2.8 | 2 | 13442 |
| 1 | 5 | 3246 | 0.174 | 34.698 | 2 | 127.84 | 2 | -158.2 | 2.4 | 2 | 13441 |
| 1 | 28 | 3579 | 0.104 | 34.696 | 2 | 119.44 | 2 | -147.3 | 2.4 | 2 | 13440 |
| 1 | 3 | 3852 | 0.098 | 34.696 | 2 | 118.17 | 2 | -143.3 | 2.4 | 2 | 13439 |
| 1 | 2 | 4065 | 0.114 | 34.696 | 2 | 118.07 | 2 | -149.1 | 2.7 | 2 | 13438 |
| 1 | 1 | 4286 | 0.136 | 34.697 | 2 | 118.66 | 2 | -146.5 | 2.5 | 2 | 13437 |

Station 748

| | | Latitude | 66.983°S | | Date | | 3/15/92 | | | | |
|------|------|-------------|------------|--------|--------------|---------------|---------|------------------------|----------|---|-------|
| | | Longitude | 160.290°W | | Bottom Depth | | 4172 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 10 | 0.299 | 33.883 | 2 | 64.46 | 2 | -102.2 | 3.1 | 2 | 13446 |
| 1 | 23 | 51 | 0.288 | 33.883 | 2 | 64.44 | 2 | -104.0 | 3.7 | 2 | 13445 |
| 1 | 22 | 75 | -1.633 | 34.193 | 2 | 68.64 | 2 | -104.6 | 3.4 | 2 | 13436 |
| 1 | 21 | 123 | -0.671 | 34.384 | 2 | 76.91 | 2 | -118.7 | 2.8 | 2 | 13435 |
| 1 | 20 | 204 | 1.096 | 34.652 | 2 | 94.75 | 2 | -143.9 | 3.7 | 2 | 13434 |
| 1 | 19 | 253 | 1.349 | 34.707 | 2 | 100.64 | 2 | -152.2 | 2.7 | 2 | 13433 |
| 1 | 18 | 304 | 1.368 | 34.722 | 2 | 103.27 | 2 | -148.8 | 2.8 | 2 | 13432 |
| 1 | 17 | 404 | 1.294 | 34.725 | 2 | 106.98 | 2 | -150.9 | 2.8 | 2 | 13431 |
| 1 | 16 | 506 | 1.222 | 34.724 | 2 | 109.61 | 2 | -158.2 | 2.8 | 2 | 13430 |
| 1 | 15 | 606 | 1.156 | 34.723 | 2 | 111.63 | 2 | -157.9 | 2.5 | 2 | 13429 |
| 1 | 14 | 807 | 1.024 | 34.718 | 2 | 115.10 | 2 | -151.4 | 2.3 | 2 | 13428 |
| 1 | 13 | 1008 | 0.899 | 34.714 | 2 | 119.18 | 2 | -161.5 | 3.0 | 2 | 13427 |
| 1 | 12 | 1211 | 0.793 | 34.710 | 2 | 121.89 | 2 | -162.8 | 2.4 | 2 | 13418 |
| 1 | 26 | 1413 | 0.704 | 34.706 | 2 | 125.15 | 2 | -156.5 | 2.3 | 2 | 13417 |
| 1 | 10 | 1717 | 0.583 | 34.702 | 2 | 127.27 | 2 | -155.7 | 2.5 | 2 | 13416 |
| 1 | 27 | 2023 | 0.469 | 34.700 | 2 | 129.68 | 2 | -169.1 | 2.7 | 2 | 13095 |
| 1 | 8 | 2329 | 0.372 | 34.699 | 2 | 131.75 | 2 | -164.9 | 3.1 | 2 | 13094 |
| 1 | 7 | 2630 | 0.290 | 34.699 | 2 | 132.76 | 2 | -166.3 | 3.5 | 2 | 13093 |
| 1 | 6 | 2936 | 0.212 | 34.698 | 2 | 131.25 | 2 | -158.7 | 2.6 | 2 | 13208 |
| 1 | 5 | 3236 | 0.124 | 34.696 | 2 | 123.47 | 2 | -156.1 | 3.0 | 2 | 13091 |
| 1 | 28 | 3582 | 0.095 | 34.696 | 2 | 119.28 | 2 | -151.8 | 2.5 | 2 | 13090 |
| 1 | 3 | 3832 | 0.108 | 34.696 | 2 | 119.04 | 2 | -154.1 | 2.4 | 2 | 13089 |
| 1 | 2 | 4034 | 0.127 | 34.695 | 2 | 119.00 | 2 | -150.8 | 2.3 | 2 | 13415 |
| 1 | 1 | 4201 | 0.144 | 34.696 | 2 | 119.17 | 2 | -151.1 | 2.3 | 2 | 13088 |

Station 754

| | | Latitude | | 66.983°S | | Date | | 3/15/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 160.290°W | | Bottom Depth | | 4172 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 24 | 19 | 0.301 | 33.836 | 2 | 49.45 | 2 | -94.7 | 4.4 | 2 | 12038 |
| 1 | 23 | 47 | 0.191 | 33.878 | 2 | 50.63 | 2 | -96.4 | 4.8 | 2 | 12026 |
| 1 | 22 | 78 | -1.301 | 34.246 | 2 | 70.19 | 2 | -112.3 | 3.0 | 2 | 12027 |
| 1 | 21 | 109 | -0.490 | 34.368 | 2 | 76.02 | 2 | -115.8 | 2.8 | 2 | 12028 |
| 1 | 20 | 159 | 0.750 | 34.569 | 2 | 85.92 | 2 | -133.1 | 2.8 | 2 | 12029 |
| 1 | 19 | 210 | 1.294 | 34.658 | 2 | 90.56 | 2 | -144.0 | 2.9 | 2 | 12030 |
| 1 | 18 | 259 | 1.449 | 34.694 | 2 | 92.97 | 2 | -138.8 | 2.8 | 2 | 12031 |
| 1 | 17 | 308 | 1.471 | 34.709 | 2 | 94.97 | 2 | -143.6 | 2.9 | 2 | 12037 |
| 1 | 16 | 410 | 1.403 | 34.722 | 2 | 99.63 | 2 | -154.7 | 2.4 | 2 | 13414 |
| 1 | 15 | 511 | 1.339 | 34.724 | 2 | 102.46 | 2 | -147.4 | 4.4 | 2 | 13668 |
| 1 | 14 | 613 | 1.268 | 34.724 | 2 | 104.89 | 2 | -152.2 | 3.1 | 2 | 13412 |
| 1 | 13 | 813 | 1.130 | 34.721 | 2 | 109.78 | 2 | -153.2 | 2.7 | 2 | 13327 |
| 1 | 12 | 1013 | 0.998 | 34.716 | 2 | 114.08 | 2 | -149.4 | 2.7 | 2 | 13326 |
| 1 | 26 | 1214 | 0.884 | 34.712 | 2 | 118.18 | 2 | -150.6 | 2.8 | 2 | 13325 |
| 1 | 10 | 1414 | 0.778 | 34.709 | 2 | 121.67 | 2 | -147.6 | 2.9 | 2 | 13324 |
| 1 | 27 | 1617 | 0.681 | 34.705 | 2 | 124.35 | 2 | -150.7 | 3.1 | 2 | 13323 |
| 1 | 8 | 1818 | 0.574 | 34.700 | 2 | 125.14 | 2 | -159.0 | 3.3 | 2 | 13322 |
| 1 | 7 | 2122 | 0.459 | 34.699 | 2 | 127.61 | 2 | -146.6 | 3.4 | 2 | 13321 |
| 1 | 6 | 2426 | 0.347 | 34.698 | 2 | 128.62 | 2 | -152.5 | 3.3 | 2 | 13320 |
| 1 | 5 | 2725 | 0.241 | 34.697 | 2 | 127.32 | 2 | -152.8 | 3.3 | 2 | 13319 |
| 1 | 28 | 3028 | 0.156 | 34.696 | 2 | 122.69 | 2 | -160.9 | 2.5 | 2 | 13318 |
| 1 | 3 | 3181 | 0.153 | 34.696 | 2 | 122.02 | 2 | -139.8 | 3.4 | 2 | 13309 |
| 1 | 2 | 3337 | 0.161 | 34.695 | 2 | 121.78 | 2 | -144.3 | 4.8 | 2 | 13308 |
| 1 | 1 | 3423 | 0.164 | 34.695 | 2 | 121.53 | 2 | -151.4 | 2.9 | 2 | 13307 |

Station 760

| | | Latitude | | 66.973°S | | Date | | 3/18/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|----------------------------|----------|---|-------|
| | | Longitude | | 175.628°W | | Bottom Depth | | 2831 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 24 | 12 | 0.619 | 33.789 | 2 | 43.44 | 2 | -104.5 | 3.0 | 2 | 12058 |
| 1 | 23 | 52 | 0.238 | 33.831 | 2 | 43.85 | 2 | -96.5 | 3.1 | 2 | 12057 |
| 1 | 22 | 86 | -1.438 | 34.229 | 2 | 65.19 | 2 | -110.9 | 3.1 | 2 | 12056 |
| 1 | 21 | 128 | 0.097 | 34.434 | 2 | 78.00 | 2 | -112.3 | 2.8 | 2 | 12007 |
| 1 | 20 | 183 | 0.986 | 34.583 | 2 | 85.03 | 2 | -127.8 | 2.4 | 2 | 12006 |
| 1 | 19 | 242 | 1.440 | 34.676 | 2 | 90.47 | 2 | -138.7 | 3.1 | 2 | 12005 |
| 1 | 18 | 324 | 1.523 | 34.706 | 2 | 93.31 | 2 | -144.2 | 2.8 | 2 | 12046 |
| 1 | 17 | 403 | 1.491 | 34.717 | 2 | 96.15 | 2 | -144.5 | 2.9 | 2 | 12045 |
| 1 | 16 | 503 | 1.389 | 34.718 | 2 | 97.58 | 2 | -144.4 | 2.9 | 2 | 12044 |
| 1 | 15 | 603 | 1.256 | 34.714 | 2 | 99.41 | 2 | -153.1 | 3.2 | 2 | 12043 |

Station 760

| | | Latitude | | 66.973°S | | Date | | 3/18/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 175.628°W | | Bottom Depth | | 2831 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 14 | 702 | 1.204 | 34.717 | 2 | 102.07 | 2 | -154.3 | 3.0 | 2 | 12042 |
| 1 | 13 | 801 | 1.143 | 34.719 | 2 | 105.33 | 2 | -155.0 | 2.9 | 2 | 12040 |
| 1 | 10 | 1145 | 0.954 | 34.715 | 2 | 113.14 | 2 | -164.1 | 3.9 | 2 | 12183 |
| 1 | 27 | 1296 | 0.855 | 34.710 | 2 | 115.42 | 2 | -160.5 | 3.3 | 2 | 12182 |
| 1 | 8 | 1494 | 0.741 | 34.706 | 2 | 119.34 | 2 | -152.1 | 3.4 | 2 | 12009 |
| 1 | 7 | 1696 | 0.619 | 34.702 | 2 | 122.46 | 2 | -149.0 | 3.7 | 2 | 12010 |
| 1 | 6 | 1893 | 0.541 | 34.699 | 2 | 124.76 | 2 | -158.0 | 2.7 | 2 | 12011 |
| 1 | 5 | 2091 | 0.497 | 34.698 | 2 | 125.81 | 2 | -154.5 | 4.1 | 2 | 12012 |
| 1 | 28 | 2287 | 0.405 | 34.697 | 2 | 126.04 | 2 | -152.5 | 3.6 | 2 | 12013 |
| 1 | 3 | 2480 | 0.323 | 34.696 | 2 | 126.48 | 2 | -150.6 | 3.2 | 2 | 12014 |
| 1 | 2 | 2675 | 0.242 | 34.695 | 2 | 124.83 | 2 | -152.9 | 2.5 | 2 | 12015 |
| 1 | 1 | 2837 | 0.215 | 34.695 | 2 | 123.81 | 2 | -158.5 | 2.8 | 2 | 12016 |

Station 764

| | | Latitude | | 67.037°S | | Date | | 3/20/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|----------------|
| | | Longitude | | 179.231°E | | Bottom Depth | | 37471 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 10 | 0.234 | 33.815 | 2 | 45.71 | 2 | -103.7 | 3.4 | 2 | 12188 |
| 1 | 23 | 40 | 0.404 | 33.858 | 2 | 45.90 | 2 | -100.5 | 3.8 | 2 | 12085 |
| 1 | 22 | 68 | -1.224 | 34.213 | 2 | 71.62 | 2 | -107.4 | 2.9 | 2 | 12084 |
| 1 | 21 | 114 | 0.393 | 34.484 | 2 | 80.60 | 2 | -125.2 | 6.1 | 2 | 12082 |
| 1 | 20 | 164 | 1.093 | 34.616 | 2 | 88.41 | 2 | -143.2 | 4.0 | 2 | 12081 |
| 1 | 18 | 254 | 1.727 | 34.710 | 2 | 89.20 | 2 | -146.4 | 4.1 | 2 | 12080 |
| 1 | 17 | 312 | 1.631 | 34.721 | 2 | 90.40 | 2 | -154.9 | 5.3 | 2 | 12079 |
| 1 | 16 | 400 | 1.196 | 34.698 | 2 | 93.81 | 2 | -138.2 | 2.4 | 3 | 12034 15999 |
| 1 | 15 | 493 | 1.361 | 34.724 | 2 | 100.67 | 2 | -152.9 | 2.9 | 2 | 12035 |
| 1 | 14 | 690 | 1.181 | 34.718 | 2 | 106.95 | 2 | -148.4 | 2.9 | 2 | 12036 |
| 1 | 13 | 883 | 1.086 | 34.719 | 2 | 112.03 | 2 | -149.9 | 3.1 | 2 | 12033 |
| 1 | 12 | 1072 | 0.955 | 34.715 | 2 | 115.70 | 2 | -151.2 | 2.8 | 2 | 12032 |
| 1 | 26 | 1262 | 0.870 | 34.713 | 2 | 118.77 | 2 | -159.9 | 2.9 | 2 | 12025 |
| 1 | 10 | 1456 | 0.777 | 34.709 | 2 | 122.06 | 2 | -161.6 | 3.0 | 2 | 12024 |
| 1 | 27 | 1700 | 0.675 | 34.706 | 2 | 125.36 | 2 | -162.3 | 4.4 | 2 | 12023 |
| 1 | 8 | 1951 | 0.578 | 34.703 | 2 | 127.21 | 2 | -158.2 | 4.5 | 2 | 12022 |
| 1 | 7 | 2250 | 0.471 | 34.702 | 2 | 129.49 | 2 | -159.4 | 2.9 | 2 | 12021 |
| 1 | 6 | 2553 | 0.386 | 34.701 | 2 | 131.77 | 2 | -163.3 | 2.9 | 2 | 12020 |
| 1 | 29 | 2856 | 0.297 | 34.699 | 2 | 130.30 | 2 | -155.5 | 2.9 | 2 | 12019 |
| 1 | 28 | 3159 | 0.209 | 34.696 | 2 | 124.47 | 2 | -159.6 | 3.1 | 2 | 12018 |

Station 764

| | | Latitude | 67.037°S | | | Date | 3/20/92 | | | | |
|------|------|-----------|-----------|--------|---|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 179.231°E | | | Bottom Depth | 37471 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 3 | 3459 | 0.117 | 34.694 | 2 | 118.28 | 2 | -148.3 | 2.8 | 2 | 12017 |
| 1 | 1 | 3777 | 0.064 | 34.696 | 2 | 114.16 | 2 | -157.8 | 4.5 | 2 | 12074 |

Station 768

| | | Latitude | 67.049°S | | | Date | 3/21/92 | | | | |
|------|------|-----------|-----------|--------|---|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 174.319°E | | | Bottom Depth | 3179 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 24 | 16 | -0.234 | 33.760 | 2 | 54.24 | 2 | -88.3 | 8.6 | 2 | 12503 |
| 1 | 23 | 47 | -0.240 | 33.761 | 2 | 54.23 | 2 | -114.3 | 3.5 | 2 | 12501 |
| 1 | 22 | 81 | -1.207 | 34.331 | 2 | 76.23 | 2 | -122.6 | 3.5 | 2 | 12500 |
| 1 | 21 | 108 | 0.546 | 34.540 | 2 | 87.17 | 2 | -131.7 | 3.6 | 2 | 12499 |
| 1 | 20 | 160 | 1.270 | 34.678 | 2 | 95.09 | 2 | -139.5 | 3.5 | 2 | 12498 |
| 1 | 19 | 208 | 1.332 | 34.696 | 2 | 97.31 | 2 | -140.9 | 3.3 | 2 | 12497 |
| 1 | 18 | 257 | 1.337 | 34.708 | 2 | 99.54 | 2 | -148.2 | 3.5 | 2 | 12226 |
| 1 | 17 | 309 | 1.319 | 34.714 | 2 | 101.36 | 2 | -157.8 | 3.6 | 2 | 12225 |
| 1 | 16 | 402 | 1.272 | 34.718 | 2 | 104.83 | 2 | -154.8 | 4.7 | 2 | 12078 |
| 1 | 15 | 504 | 1.201 | 34.719 | 2 | 107.89 | 2 | -153.3 | 4.5 | 2 | 12077 |
| 1 | 14 | 597 | 1.142 | 34.719 | 2 | 110.13 | 2 | -160.2 | 3.6 | 2 | 12076 |
| 1 | 13 | 693 | 1.082 | 34.718 | 2 | 111.97 | 2 | -155.8 | 2.8 | 2 | 12073 |
| 1 | 12 | 781 | 1.031 | 34.717 | 2 | 114.21 | 2 | -155.7 | 2.8 | 2 | 12063 |
| 1 | 26 | 950 | 0.949 | 34.716 | 2 | 117.09 | 2 | -152.3 | 2.8 | 2 | 12062 |
| 1 | 10 | 1132 | 0.842 | 34.708 | 3 | 123.51 | 3 | -160.9 | 3.0 | 2 | 12061 |
| 1 | 27 | 1407 | 0.727 | 34.708 | 2 | 124.11 | 2 | -160.8 | 2.8 | 2 | 12060 |
| 1 | 8 | 1679 | 0.623 | 34.706 | 2 | 127.02 | 2 | -161.2 | 5.2 | 6 | 12059 |
| | | | | | | | | | | | 15447 |
| 1 | 7 | 1938 | 0.522 | 34.703 | 2 | 128.88 | 2 | -178.5 | 2.1 | 3 | 13626 |
| | | | | | | | | | | | 15450 |
| 1 | 6 | 2203 | 0.424 | 34.701 | 2 | 130.12 | 2 | -176.2 | 5.0 | 3 | 13625 |
| | | | | | | | | | | | 15449 |
| 1 | 29 | 2476 | 0.337 | 34.698 | 2 | 128.62 | 2 | -162.2 | 3.4 | 6 | 13018 |
| | | | | | | | | | | | 15448 |
| 1 | 28 | 2744 | 0.243 | 34.697 | 2 | 124.62 | 2 | -148.2 | 2.9 | 2 | 12949 |
| 1 | 3 | 2971 | 0.160 | 34.695 | 2 | 121.27 | 2 | -143.7 | 2.9 | 2 | 13174 |
| 1 | 2 | 3131 | 0.089 | 34.695 | 2 | 117.72 | 2 | -148.1 | 3.0 | 2 | 13020 |
| 1 | 1 | 3216 | 0.053 | 34.696 | 2 | 114.59 | 2 | -153.8 | 2.8 | 2 | 12072 |

Station 772

| | | Latitude | | | | 68.703°S | | | | Date | | 3/22/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|----------------|---------|--|
| | | Longitude | | | | 171.441°E | | | | Bottom Depth | | 3312 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 24 | 15 | -1.173 | 33.874 | 2 | 67.48 | 2 | -107.2 | 6.2 | 2 | 12522 | | |
| 1 | 23 | 46 | -1.162 | 33.909 | 3 | 68.27 | 2 | -114.8 | 7.0 | 2 | 12521 | | |
| 1 | 22 | 76 | 0.464 | 34.574 | 2 | 89.74 | 2 | -136.4 | 3.8 | 2 | 12520 | | |
| 1 | 21 | 105 | 0.945 | 34.644 | 2 | 93.62 | 2 | -142.5 | 3.3 | 2 | 13449 | | |
| 1 | 20 | 155 | 1.250 | 34.694 | 2 | 97.92 | 2 | -147.3 | 5.2 | 2 | 12518 | | |
| 1 | 19 | 206 | 1.257 | 34.704 | 2 | 99.53 | 2 | -143.3 | 3.5 | 2 | 12502 | | |
| 1 | 18 | 257 | 1.277 | 34.713 | 2 | 102.60 | 2 | -162.3 | 2.9 | 6 | 12517 16001 | | |
| 1 | 17 | 307 | 1.254 | 34.717 | 2 | 104.43 | 2 | -166.8 | 5.4 | 2 | 16000 | | |
| 1 | 16 | 407 | 1.196 | 34.719 | 2 | 107.30 | 2 | -151.6 | 2.8 | 2 | 13225 | | |
| 1 | 15 | 609 | 1.073 | 34.717 | 2 | 112.26 | 2 | -146.3 | 2.7 | 2 | 13224 | | |
| 1 | 14 | 811 | 0.952 | 34.715 | 2 | 115.98 | 2 | -155.8 | 2.6 | 2 | 13301 | | |
| 1 | 13 | 1012 | 0.838 | 34.711 | 2 | 119.50 | 2 | -151.0 | 3.7 | 2 | 13300 | | |
| 1 | 12 | 1213 | 0.754 | 34.708 | 2 | 122.61 | 2 | -156.5 | 2.9 | 2 | 13299 | | |
| 1 | 26 | 1415 | 0.664 | 34.705 | 2 | 124.67 | 2 | -155.1 | 2.9 | 2 | 13298 | | |
| 1 | 10 | 1616 | 0.597 | 34.703 | 2 | 126.74 | 2 | -162.5 | 3.3 | 2 | 13297 | | |
| 1 | 27 | 1816 | 0.530 | 34.703 | 2 | 127.97 | 2 | -165.2 | 2.6 | 2 | 13296 | | |
| 1 | 8 | 2019 | 0.447 | 34.702 | 2 | 129.41 | 2 | -161.9 | 2.7 | 2 | 13295 | | |
| 1 | 7 | 2221 | 0.372 | 34.700 | 2 | 128.95 | 2 | -162.9 | 2.8 | 2 | 13294 | | |
| 1 | 6 | 2425 | 0.300 | 34.697 | 2 | 125.95 | 2 | -149.8 | 3.4 | 2 | 13236 | | |
| 1 | 29 | 2631 | 0.238 | 34.695 | 2 | 122.76 | 2 | -155.7 | 2.9 | 2 | 13235 | | |
| 1 | 28 | 2835 | 0.178 | 34.694 | 2 | 119.58 | 2 | -143.6 | 2.7 | 2 | 13223 | | |
| 1 | 3 | 3089 | 0.100 | 34.695 | 2 | 113.91 | 2 | -139.0 | 2.7 | 2 | 13222 | | |
| 1 | 2 | 3191 | 0.053 | 34.694 | 2 | 111.79 | 2 | -135.8 | 2.8 | 2 | 13221 | | |
| 1 | 1 | 3299 | 0.021 | 34.696 | 2 | 110.93 | 2 | -139.2 | 2.6 | 2 | 13220 | | |

Station 775

| | | Latitude | | | | 69.933°S | | | | Date | | 3/22/92 | |
|------|------|-------------|------------|--------|---|---------------|---|------------------------|----------|--------------|-------|---------|--|
| | | Longitude | | | | 169.3441°E | | | | Bottom Depth | | 2731 | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | | |
| 1 | 24 | 11 | -1.543 | 34.239 | 2 | 73.32 | 2 | -110.9 | 3.8 | 2 | 12510 | | |
| 1 | 23 | 61 | -1.536 | 34.239 | 2 | 73.32 | 2 | -115.4 | 3.9 | 2 | 12506 | | |
| 1 | 22 | 122 | -1.524 | 34.240 | 2 | 73.53 | 2 | -109.0 | 4.6 | 2 | 12505 | | |
| 1 | 21 | 183 | -1.470 | 34.255 | 2 | 73.73 | 2 | -115.6 | 3.7 | 2 | 12504 | | |
| 1 | 20 | 243 | -1.299 | 34.300 | 2 | 75.99 | 2 | -123.4 | 3.6 | 2 | 12223 | | |
| 1 | 30 | 273 | -0.716 | 34.475 | 2 | 85.66 | 2 | -134.4 | 3.8 | 2 | 12222 | | |
| 1 | 17 | 404 | -0.068 | 34.589 | 2 | 93.30 | 2 | -144.3 | 3.5 | 2 | 12220 | | |

Station 775

| | | Latitude | | 69.933°S | | | | Date | | 3/22/92 | | |
|------|------|-----------|---------|------------|---|------------|---|---------------------|-------|---------|-------------------------|--|
| | | Longitude | | 169.3441°E | | | | Bottom Depth | | 2731 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 16 | 505 | 0.434 | 34.655 | 2 | 102.62 | 2 | -143.8 | 4.2 | 2 | 12789 | |
| 1 | 15 | 606 | 0.578 | 34.679 | 2 | 109.08 | 2 | -148.2 | 3.3 | 2 | 12951 | |
| 1 | 14 | 756 | 0.583 | 34.693 | 2 | 116.62 | 2 | -147.2 | 4.6 | 2 | 12788 | |
| 1 | 13 | 908 | 0.454 | 34.690 | 2 | 118.30 | 2 | -153.7 | 1.9 | 6 | 12787 12959 13335 | |
| 1 | 12 | 1060 | 0.188 | 34.674 | 2 | 110.96 | 2 | -137.5 | 5.9 | 2 | 12786 | |
| 1 | 26 | 1210 | 0.209 | 34.683 | 2 | 112.63 | 2 | -140.5 | 4.6 | 2 | 12785 | |
| 1 | 10 | 1363 | 0.199 | 34.697 | 2 | 111.80 | 2 | -137.4 | 5.5 | 2 | 12784 | |
| 1 | 27 | 1512 | 0.147 | 34.702 | 2 | 108.45 | 2 | -143.1 | 3.7 | 2 | 12783 | |
| 1 | 8 | 1712 | -0.037 | 34.705 | 2 | 106.57 | 2 | -142.6 | 3.2 | 2 | 12579 | |
| 1 | 7 | 1910 | -0.172 | 34.705 | 2 | 102.83 | 2 | -134.0 | 3.4 | 2 | 12578 | |
| 1 | 6 | 2113 | -0.316 | 34.716 | 2 | 99.92 | 2 | -139.4 | 3.2 | 2 | 12577 | |
| 1 | 29 | 2266 | -0.431 | 34.719 | 2 | 97.01 | 2 | -135.3 | 3.1 | 2 | 12576 | |
| 1 | 28 | 2419 | -0.479 | 34.721 | 2 | 95.98 | 2 | -133.3 | 3.1 | 2 | 12575 | |
| 1 | 3 | 2567 | -0.479 | 34.721 | 2 | 95.98 | 2 | -132.3 | 3.1 | 2 | 12574 | |
| 1 | 2 | 2657 | -0.491 | 34.723 | 2 | 95.36 | 2 | -132.1 | 3.1 | 2 | 12573 | |
| 1 | 1 | 2707 | -0.516 | 34.724 | 2 | 95.36 | 2 | -127.2 | 4.3 | 2 | 12572 | |

Station 777

| | | Latitude | | 70.411°S | | | | Date | | 3/23/92 | | |
|------|------|-----------|---------|-----------|---|------------|---|---------------------|-------|---------|-------|--|
| | | Longitude | | 168.496°E | | | | Bottom Depth | | 1722 | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# | |
| 1 | 24 | 12 | -1.735 | 34.104 | 2 | 75.70 | 2 | -107.9 | 2.4 | 2 | 13426 | |
| 1 | 22 | 103 | -1.456 | 34.224 | 2 | 75.88 | 2 | -107.7 | 2.8 | 2 | 13425 | |
| 1 | 21 | 153 | -1.284 | 34.281 | 2 | 76.29 | 2 | -119.8 | 2.4 | 2 | 13424 | |
| 1 | 20 | 203 | -1.183 | 34.311 | 2 | 76.27 | 2 | -121.1 | 3.7 | 2 | 13669 | |
| 1 | 30 | 253 | -1.098 | 34.364 | 2 | 77.72 | 2 | -122.2 | 2.5 | 2 | 13423 | |
| 1 | 18 | 334 | -1.265 | 34.428 | 2 | 81.06 | 2 | -122.4 | 2.6 | 2 | 13422 | |
| 1 | 17 | 375 | -0.796 | 34.485 | 2 | 84.40 | 2 | -136.7 | 2.3 | 2 | 13421 | |
| 1 | 16 | 404 | -0.577 | 34.519 | 2 | 86.27 | 2 | -134.1 | 2.7 | 2 | 13420 | |

Station 777

| | | Latitude | 70.411°S | | | | Date | 3/23/92 | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|----------------|
| | | Longitude | 168.496°E | | | | Bottom Depth | 1722 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 15 | 504 | -0.393 | 34.577 | 2 | 91.72 | 2 | -135.1 | 2.7 | 2 | 13419 |
| 1 | 14 | 562 | -0.091 | 34.619 | 2 | 98.86 | 2 | -140.2 | 3.3 | 2 | 13333 |
| 1 | 13 | 648 | 0.289 | 34.667 | 2 | 110.48 | 2 | -151.6 | 3.0 | 2 | 13332 |
| 1 | 12 | 694 | 0.278 | 34.671 | 2 | 111.96 | 2 | -147.8 | 2.8 | 2 | 13331 |
| 1 | 26 | 838 | -0.100 | 34.649 | 2 | 103.04 | 2 | -144.4 | 2.7 | 2 | 13330 |
| 1 | 10 | 941 | -0.077 | 34.667 | 2 | 105.14 | 2 | -141.0 | 2.9 | 2 | 13329 |
| 1 | 27 | 1047 | -0.124 | 34.673 | 2 | 103.43 | 2 | -142.2 | 2.9 | 2 | 13328 |
| 1 | 8 | 1157 | -0.274 | 34.662 | 2 | 100.67 | 2 | -135.7 | 2.8 | 2 | 13227 |
| 1 | 7 | 1251 | -0.155 | 34.680 | 2 | -9.00 | 1 | -148.8 | 2.8 | 2 | 13594 |
| 1 | 6 | 1310 | -0.266 | 34.671 | 2 | 99.39 | 2 | -130.1 | 6.8 | 2 | 16003 |
| 1 | 29 | 1411 | -0.159 | 34.686 | 2 | 102.33 | 2 | -149.1 | 2.6 | 2 | 13586 |
| 1 | 28 | 1510 | -0.183 | 34.691 | 2 | 102.11 | 2 | -144.1 | 2.5 | 2 | 13585 |
| 1 | 3 | 1610 | -0.209 | 34.701 | 2 | 101.25 | 2 | -135.7 | 3.2 | 2 | 13584 |
| 1 | 2 | 1642 | -0.213 | 34.701 | 2 | 101.24 | 2 | -140.6 | 3.8 | 2 | 13447 |
| 1 | 1 | 1695 | -0.305 | 34.702 | 2 | 100.59 | 2 | -142.4 | 11.0 | 6 | 13670 16002 |

Station 778

| | | Latitude | 70.451°S | | | | Date | 3/23/92 | | | |
|------|------|-------------|------------|--------|---|---------------|--------------|------------------------|----------|---|-------|
| | | Longitude | 168.414°E | | | | Bottom Depth | 1058 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 14 | 11 | -1.639 | 34.216 | 2 | 73.23 | 2 | -113.0 | 3.6 | 2 | 13607 |
| 1 | 13 | 51 | -1.389 | 34.268 | 2 | 74.89 | 2 | -117.4 | 3.4 | 2 | 13606 |
| 1 | 12 | 112 | -1.315 | 34.292 | 2 | 75.28 | 2 | -123.2 | 2.6 | 2 | 13605 |
| 1 | 26 | 172 | -1.319 | 34.327 | 3 | 75.28 | 3 | -121.2 | 2.5 | 2 | 13599 |
| 1 | 10 | 243 | -1.220 | 34.397 | 4 | 77.04 | 2 | -129.0 | 3.9 | 2 | 12224 |
| 1 | 27 | 303 | -1.191 | 34.358 | 2 | 77.23 | 2 | -128.8 | 3.6 | 2 | 12221 |
| 1 | 8 | 362 | -0.993 | 34.415 | 2 | 80.56 | 2 | -127.9 | 2.4 | 2 | 13595 |
| 1 | 7 | 440 | -0.925 | 34.487 | 2 | 82.41 | 2 | -132.7 | 3.6 | 2 | 12219 |
| 1 | 6 | 549 | -0.843 | 34.528 | 2 | 84.56 | 2 | -135.6 | 3.8 | 2 | 12218 |
| 1 | 29 | 628 | -0.617 | 34.567 | 2 | 88.66 | 2 | -139.7 | 6.1 | 2 | 12217 |

Station 778

| | | Latitude | 70.451°S | | Date | | 3/23/92 | | | | |
|------|------|-----------|-----------|--------|--------------|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 168.414°E | | Bottom Depth | | 1058 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 28 | 696 | -0.557 | 34.601 | 2 | 92.47 | 2 | -135.2 | 3.5 | 2 | 12216 |
| 1 | 3 | 795 | -0.253 | 34.638 | 2 | 98.33 | 2 | -147.3 | 3.4 | 2 | 12215 |
| 1 | 2 | 905 | -0.504 | 34.623 | 2 | 93.54 | 2 | -137.0 | 3.5 | 2 | 12214 |
| 1 | 1 | 1011 | -0.434 | 34.643 | 2 | 95.01 | 2 | -143.5 | 3.3 | 2 | 12213 |

Station 779

| | | Latitude | 70.493°S | | Date | | 3/23/92 | | | | |
|------|------|-----------|-----------|--------|--------------|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 168.308°E | | Bottom Depth | | 386 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 17 | 11 | -1.613 | 34.217 | 2 | 72.99 | 2 | -110.3 | 4.7 | 2 | 12796 |
| 1 | 15 | 41 | -1.583 | 34.221 | 2 | 73.20 | 2 | -116.8 | 4.4 | 2 | 12795 |
| 1 | 13 | 71 | -1.395 | 34.248 | 2 | 73.40 | 2 | -117.3 | 4.0 | 2 | 12794 |
| 1 | 26 | 101 | -1.379 | 34.270 | 2 | 73.61 | 2 | -105.0 | 4.7 | 2 | 12793 |
| 1 | 27 | 151 | -1.302 | 34.291 | 2 | 74.23 | 2 | -110.2 | 4.0 | 2 | 12792 |
| 1 | 7 | 206 | -1.130 | 34.331 | 2 | 75.47 | 2 | -121.6 | 4.2 | 2 | 12791 |
| 1 | 29 | 261 | -1.049 | 34.347 | 2 | 76.72 | 2 | -121.5 | 3.9 | 2 | 12790 |
| 1 | 3 | 321 | -1.076 | 34.348 | 2 | 77.34 | 2 | -131.1 | 4.0 | 2 | 12571 |
| 1 | 1 | 368 | -1.110 | 34.355 | 2 | 78.17 | 2 | -126.1 | 4.0 | 2 | 12958 |

Station 780

| | | Latitude | 70.648°S | | Date | | 3/23/92 | | | | |
|------|------|-----------|-----------|--------|--------------|-----------------------|---------|-------------------------|-------|---|-------|
| | | Longitude | 168.066°E | | Bottom Depth | | 209 | | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si $\mu\text{mol/kg}$ | F | $\Delta^{14}\text{C}$ ‰ | Err ‰ | F | OS# |
| 1 | 7 | 11 | -1.479 | 34.282 | 2 | 74.02 | 2 | -120.4 | 3.2 | 2 | 12919 |
| 1 | 6 | 41 | -1.294 | 34.304 | 2 | 74.23 | 2 | -120.0 | 3.3 | 2 | 12918 |
| 1 | 29 | 67 | -1.203 | 34.325 | 2 | 75.68 | 2 | -117.2 | 4.2 | 2 | 12820 |
| 1 | 28 | 101 | -1.195 | 34.328 | 2 | 75.89 | 2 | -119.5 | 5.4 | 2 | 12819 |
| 1 | 3 | 132 | -1.144 | 34.335 | 2 | 76.09 | 2 | -120.9 | 5.7 | 2 | 12799 |
| 1 | 2 | 172 | -1.150 | 34.345 | 2 | 77.13 | 2 | -117.1 | 5.1 | 2 | 12798 |
| 1 | 1 | 193 | -1.093 | 34.368 | 2 | 79.41 | 2 | -118.2 | 4.8 | 2 | 12797 |

Station 790

| | | Latitude | | 66.022°S | | Date | | 3/29/92 | | | |
|------|------|-------------|------------|-----------|---|---------------|---|------------------------|----------|---|-------|
| | | Longitude | | 164.803°E | | Bottom Depth | | 2814 | | | |
| Cast | Bot. | Pres. dB | Temp °C | Salt | F | Si μmol/kg | F | Δ ¹⁴ C ‰ | Err ‰ | F | OS# |
| 1 | 24 | 10 | -1.052 | 33.866 | 2 | 63.41 | 2 | -112.5 | 2.6 | 2 | 13657 |
| 1 | 23 | 33 | -1.060 | 33.868 | 2 | 63.40 | 2 | -110.0 | 3.3 | 2 | 13656 |
| 1 | 21 | 97 | -0.456 | 34.530 | 2 | 90.69 | 2 | -146.6 | 3.1 | 2 | 13655 |
| 1 | 20 | 147 | 0.687 | 34.651 | 2 | 96.16 | 2 | -145.3 | 2.9 | 2 | 13654 |
| 1 | 30 | 198 | 0.880 | 34.677 | 2 | 98.89 | 2 | -150.5 | 2.6 | 2 | 13653 |
| 1 | 18 | 245 | 0.969 | 34.693 | 2 | 100.99 | 2 | -155.4 | 2.4 | 2 | 13597 |
| 1 | 17 | 294 | 0.969 | 34.698 | 2 | 102.88 | 2 | -150.9 | 2.4 | 2 | 13596 |
| 1 | 16 | 396 | 0.953 | 34.701 | 2 | 105.63 | 2 | -150.0 | 3.5 | 2 | 12555 |
| 1 | 15 | 499 | 1.017 | 34.715 | 2 | 108.80 | 2 | -147.9 | 3.4 | 2 | 12554 |
| 1 | 14 | 597 | 0.964 | 34.715 | 2 | 111.12 | 2 | -154.3 | 3.3 | 2 | 12553 |
| 1 | 13 | 694 | 0.916 | 34.714 | 2 | 113.88 | 2 | -157.3 | 3.4 | 2 | 12552 |
| 1 | 12 | 849 | 0.806 | 34.710 | 2 | 116.86 | 2 | -154.8 | 3.3 | 2 | 12551 |
| 1 | 26 | 999 | 0.722 | 34.707 | 2 | 119.63 | 2 | -155.6 | 6.0 | 2 | 12550 |
| 1 | 10 | 1193 | 0.614 | 34.703 | 2 | 122.40 | 2 | -160.1 | 3.3 | 2 | 12549 |
| 1 | 27 | 1394 | 0.525 | 34.700 | 2 | 124.32 | 2 | -160.3 | 3.1 | 2 | 12548 |
| 1 | 8 | 1597 | 0.433 | 34.700 | 2 | 125.59 | 2 | -155.7 | 3.1 | 2 | 12547 |
| 1 | 7 | 1791 | 0.355 | 34.698 | 2 | 126.00 | 2 | -160.6 | 3.3 | 2 | 12546 |
| 1 | 6 | 1999 | 0.275 | 34.698 | 2 | 124.69 | 2 | -161.4 | 3.4 | 2 | 12465 |
| 1 | 29 | 2200 | 0.194 | 34.698 | 2 | 120.58 | 2 | -155.7 | 3.0 | 2 | 12464 |
| 1 | 28 | 2397 | 0.107 | 34.696 | 2 | 115.63 | 2 | -149.4 | 3.3 | 2 | 12463 |
| 1 | 3 | 2600 | 0.036 | 34.696 | 2 | 111.55 | 2 | -140.3 | 2.9 | 2 | 12462 |
| 1 | 2 | 2695 | 0.010 | 34.697 | 2 | 109.82 | 2 | -142.1 | 4.6 | 2 | 12461 |
| 1 | 1 | 2767 | -0.032 | 34.697 | 2 | 108.52 | 2 | -142.0 | 3.1 | 2 | 12460 |