

**UNIVERSITY OF CALIFORNIA, SAN DIEGO
SCRIPPS INSTITUTION OF OCEANOGRAPHY
LA JOLLA, CALIFORNIA 92093-0227**

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

**CalCOFI Cruise 0101
7 – 26 January 2001**

**CalCOFI Cruise 0104
6 April – 3 May 2001**

**SIO Reference 02-07
18 May 2002**

Approved for distribution:

Charles F. Kennel, Director

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INTRODUCTION

The data in this report were collected during cruises 0101* and 0104 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the NOAA ship RV *David Starr Jordan*. The CalCOFI program was organized in the late 1940's to study the causes of variations in population size of fishes of importance to the State of California. It is carried out by NOAA's National Marine Fisheries Service Southwest Fisheries Science Center, the California Department of Fish and Game, and the Marine Life Research Group (MLRG) at Scripps Institution of Oceanography (SIO). MLRG contributes to this program by investigations of the physical, chemical and biological structure of the California Current. Data from the cruises were collected and processed by personnel of the Marine Life Research Group and the Southwest Fisheries Science Center. Volunteers and other SIO staff members also assisted in the collection of data and chemical analyses at sea. CalCOFI data presented in this report and collected on previous cruises can be accessed via the World Wide Web (<http://www.calcofi.org>).

STANDARD PROCEDURES

CTD/Rosette Cast Data

At each station on these cruises a Sea-Bird Electronics, Inc., Conductivity-Temperature-Depth (CTD) instrument was deployed with a 24-place rosette. The rosette was equipped with 24 ten-liter plastic (PVC) bottles. The CTD/rosette cast usually sampled 20 depths to a maximum sampling depth of 525 meters, bottom depth permitting. Occasional stations have multiple bottles tripped at the same depth to provide more water for ancillary programs. The sample spacing was designed to sample depth intervals as close as 10 meters around the sharp upper thermocline features such as the chlorophyll, oxygen, nitrite maxima and the shallow salinity minimum. Salinity, oxygen and nutrients were determined at sea for all depths sampled. Chlorophyll-*a* and phaeopigments were determined at sea within the top 200 meters, bottom depth permitting.

Pressures and temperatures assigned to the water sample data were derived from the CTD signals recorded just prior to the bottle trip. Pressures have been converted to depths by the Saunders (1981) pressure-to-depth conversion technique. CTD temperatures reported with the bottle data have been rounded to the nearest hundredth of a degree Celsius.

Salinity samples were collected from all rosette bottles and analyzed at sea using a Guildline model 8410 Portasal salinometer. Salinity samples were drawn in to 200 ml Kimax high-alumina borosilicate bottles that were rinsed three times with sample prior to filling. The results were compared with the CTD salinity in order to verify that the rosette bottle did not mis-trip or leak. The salinometer was standardized before and after each group of samples with substandard seawater. Periodic checks on the conductivity of the substandard were made by comparison with IAPSO Standard Seawater batch P134. Salinity values have been calculated using the algorithms for the Practical Salinity Scale, 1978 (UNESCO, 1981a) and were reported to three decimal places, provided that accepted standards were met.

Dissolved oxygen samples were collected in calibrated 100 ml iodine flasks, allowing at least 200% overflow. The dissolved oxygen samples were analyzed at sea by the Winkler method, as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971). Percent oxygen saturation was calculated from the equations of Weiss (1970).

Nutrient samples were analyzed at sea for dissolved silicate, phosphate, nitrate and nitrite using procedures similar to those described in Gordon et al., 1993. Samples were collected in 45 ml high-density polypropylene screw-capped tubes which were rinsed three times prior to filling. Standardizations were done at the beginning and end of each group of samples with a set of mid-concentration range standards prepared fresh for each run. Samples

* The first two digits represent the year and the last digits the month of the cruise.

not analyzed immediately after collection were refrigerated and run the following day. Sets of six different concentration standards were analyzed periodically to determine the deviation from linearity as a function of concentration, primarily for the silicate and nitrate analyses. Final sample concentrations were corrected for deviations from linearity.

Samples for chlorophyll-*a* and phaeopigments were collected in calibrated 138 ml polyethylene bottles and filtered onto Whatman GF/F filters. The pigments were extracted with a cold extraction technique in 90% acetone (Venrick and Hayward, 1984), and the fluorescence determined before and after acidification with a Turner Designs Fluorometer Model 10-005 R on cruise 0101 and a Turner Designs Fluorometer Model 10-AU-005-CE on cruise 0104 (Yentsch and Menzel, 1963; Holm-Hansen *et al.*, 1965). Inexperience with the new Turner Designs fluorometer on cruise 0104 lead to the loss of several chlorophyll samples.

Evaluation of the water sample data involved comparisons with the CTD cast profiles, adjacent stations and consideration of the variation of a property as a function of density or depth and the relationships with other properties (Klein, 1973). Estimates of precision of the standard techniques are given in SIO (1991).

Primary Productivity Sampling

Primary productivity samples were taken each day shortly before local apparent noon (LAN). Primary production was estimated from ^{14}C uptake using a simulated *in situ* technique. Light penetration was estimated from the Secchi depth (assuming that the 1% light level is three times the Secchi depth). The depths with ambient light intensities corresponding to light levels simulated by the on-deck incubators were identified and sampled on the up rosette cast. Occasionally an extra bottle or two were tripped in addition to the usual 20 levels sampled in the combined rosette-productivity cast in order to maintain the normal sampling depth resolution. The ten-liter bottles were equipped with epoxy-coated springs and Viton O-rings. Triplicate samples (two light and one dark control) were drawn from each productivity sample depth into 250 ml polycarbonate incubation bottles. Samples were inoculated with 10 μCi of ^{14}C as NaHCO_3 (200 μl of 50 $\mu\text{Ci}/\text{ml}$ stock) prepared in a 0.3 g/liter solution of sodium carbonate (Fitzwater *et al.*, 1982). Samples were incubated from LAN to civil twilight in seawater-cooled incubators with neutral-density screens which simulate *in situ* light levels. At the end of the incubation, the samples were filtered onto Millipore HA filters and placed in scintillation vials. One half ml of 10% HCl was added to each sample. The sample was then allowed to sit, without a cap, at room temperature for 12 hours (after Lean and Burnison, 1979). Following this, 10 ml of scintillation fluor were added to each sample and the samples were returned to SIO where the radioactivity was determined with a scintillation counter. Salinity, oxygen, nutrients, chlorophyll-*a* and phaeopigments were determined from all rosette productivity bottles.

Macrozooplankton Net Tows

Macrozooplankton was sampled with a 71 cm mouth diameter paired net (bongo net) equipped with 0.505 μm plankton mesh. Bottom depth permitting, the nets were towed obliquely from 210 meters to the surface. The tow time for a standard tow was 21.5 minutes. Volumes filtered were determined from flowmeter readings and the mouth area of the net. Only one sample of each pair was retained and preserved. The biomass, as wet displacement volume, after removal of large (>5 ml) organisms, was determined in the laboratory ashore. These procedures are summarized in greater detail in Kramer *et al.* (1972). An Optical Plankton Counter (OPC) was routinely used in one side of the paired bongo net frame. The purpose of the OPC is to obtain information on the vertical distributions of size categories of zooplankton, using data from the counter, without affecting the ongoing time series of data obtained from the catches of the integrative bongo net.

Avifauna Observations

Sea birds were counted within a 300-meter wide strip off to one side of the ship. Counts were made while underway between stations during periods of daylight. These counts were summed over 20 nautical mile (nm) intervals, or the distance between consecutive stations, whichever was less. Included at the end of this report are individual maps of the most numerous bird species (individuals/nm).

Ancillary Programs

Several ancillary programs produced data on these cruises that are not presented in this report. These programs include:

- 1) *Underway Data.* Seawater was pumped onboard the ship by two separate pumps using two different flow systems. Continuous near surface measurements of temperature, salinity and chlorophyll fluorescence were recorded from water pumped through the ship's uncontaminated seawater system. The data were logged at one-minute intervals. Pelagic fish eggs were collected underway throughout the entire CalCOFI pattern with a separate large volume pump system. This pump drew a continuous subsurface sample of approximately 640 liters per minute, which was concentrated and then collected by a 505 μm sieve. Subsamples were taken at intervals ranging from 10 to 30 minutes, depending on the egg concentration, for enumeration of all retained fish eggs. On Cruise 0104 the underway sampling of physical and chemical properties as well as egg pumping extended north of the usual CalCOFI cruise track to sample lines 60, 63, 67, 70 and 73 from the most shoreward stations offshore to station 80 on each line.
- 2) *ADCP.* Continuous profiles of ocean currents and acoustic backscatter between 20 and 400 meters deep were measured along the shiptrack from a hull-mounted 150 kHz Acoustic Doppler Current Profiler (ADCP). The ADCP data were averaged over 3-minute intervals. Sixty 8-meter depth bins were recorded.

TABULATED DATA

CTD/Rosette Cast Data

The time reported is the Coordinated Universal Time (UTC) of the first rosette bottle trip on the up cast. The rosette bottles tripped on the up cast are reported as cast 2, where cast 1 is considered to be the down CTD cast. The sample number reported is the cast number followed by a two-digit rosette bottle number. Bottom depths, determined acoustically, have been corrected using British Admiralty Tables (Carter, 1980) and are reported in meters. Weather conditions have been coded using WMO code 4501. Secchi depths are reported for most daylight stations.

Observed data from individual CTD/rosette trip levels are interpolated and reported for standard depths. Interpolated or extrapolated standard level data are noted by the footnote "ISL" printed after the depth. Multiple bottles tripped at the same depth to provide water for ancillary programs are not used in the calculation of standard depth data. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (UNESCO, 1981b). Computed values of potential temperature, sigma-theta, specific volume anomaly (SVA), and dynamic height or geopotential anomaly are included with both observed and interpolated standard depth levels.

On stations where primary productivity samples were drawn a footnote appears after each productivity depth sampled. The corresponding primary productivity data are reported in a separate section following the tabulated rosette cast data.

Primary Productivity Data

In addition to the normal hydrographic data also reported in the rosette cast data section, the tabulated data include: the *in situ* light levels at which the samples were collected, the uptake from each of the replicate light bottles, uptake 1 and uptake 2 (which have been corrected for dark uptake by subtracting the dark value), the mean of the two uptake values and the dark uptake. The uptake values are totals for the incubation period. Also shown are the times of LAN, civil twilight, and the value of the mean uptake integrated from the surface to the deepest sample, assuming the shallowest value continues to the surface and that negative values (when dark uptake exceeds light uptake) are zero. The uptake data have been presented to two significant digits (values <1.00) or one decimal (values >1.00). Precision of the higher production values may not warrant all of the digits presented. Incubation

time, LAN, and civil twilight are given in local Pacific Standard Time (PST); to convert to UTC, add eight hours to the PST time. Incubation light intensities are listed in a footnote at the bottom of each page.

Macrozooplankton Data

Macrozooplankton biomass volumes are tabulated as total biomass volume ($\text{cm}^3/1000\text{m}^3$ strained) and as the total volume minus the volume of larger organisms under the heading "Small." Tow times are given in local PST (+8) time.

FOOTNOTES

In addition to footnotes, special notations are used without footnotes because the meaning is always the same:

- D: CTD salinity value listed in place of normal shipboard salinity analysis.
- ISL: After a depth value indicates that this is an interpolated or extrapolated standard level.
- U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason.

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FIGURES

Cruise 0101

1. CalCOFI Cruise 0101 track and station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500m). In areas shallower than 500 m, the dynamic heights were extrapolated on the basis of the offshore deeper steric height as described in Reid and Mantyla (1976).
3. Horizontal distributions at 10 meters: A) chlorophyll-*a*; B) potential density; C) temperature; and D) salinity.
4. Horizontal distributions at 200 meters: A) dynamic height anomaly (200 over 500 m); B) potential density; C) temperature; and D) salinity.
5. Sections along CalCOFI line 90 (vertical exaggeration, 1000): A) potential density; B) temperature; C) salinity; D) silicate; E) nitrate; F) phosphate; G) chlorophyll-*a*; H) oxygen saturation; I) oxygen; J) nitrite; and K) phaeopigments.

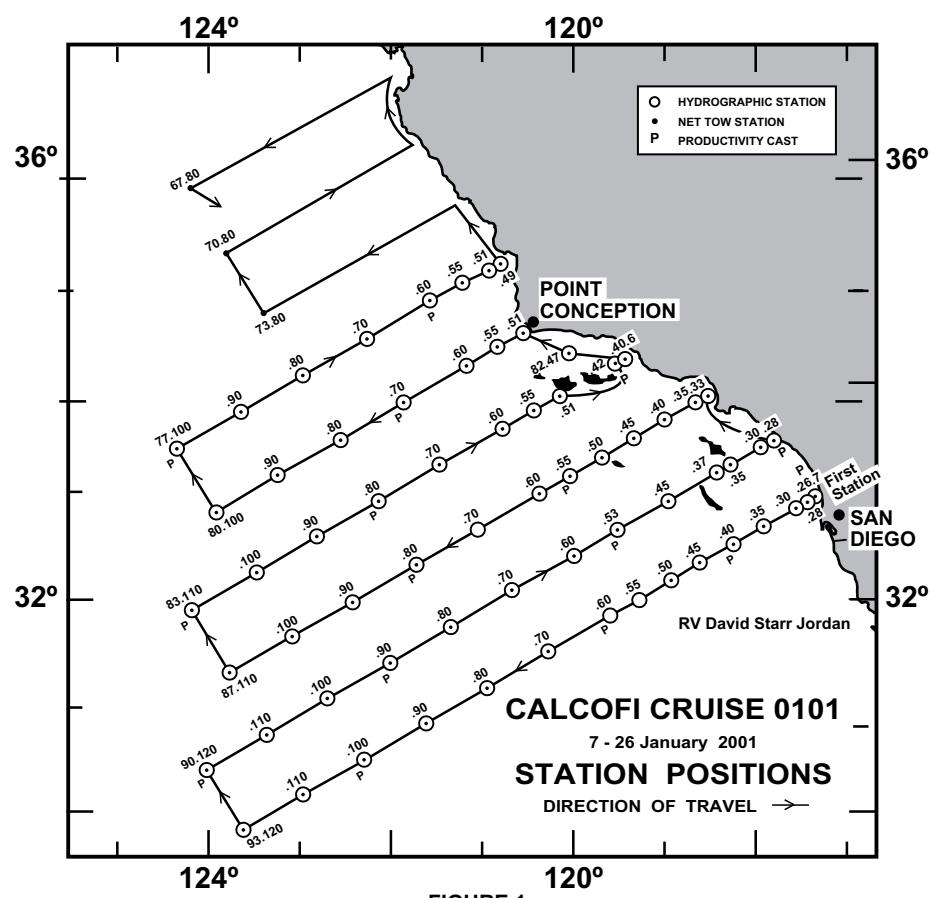


FIGURE 1

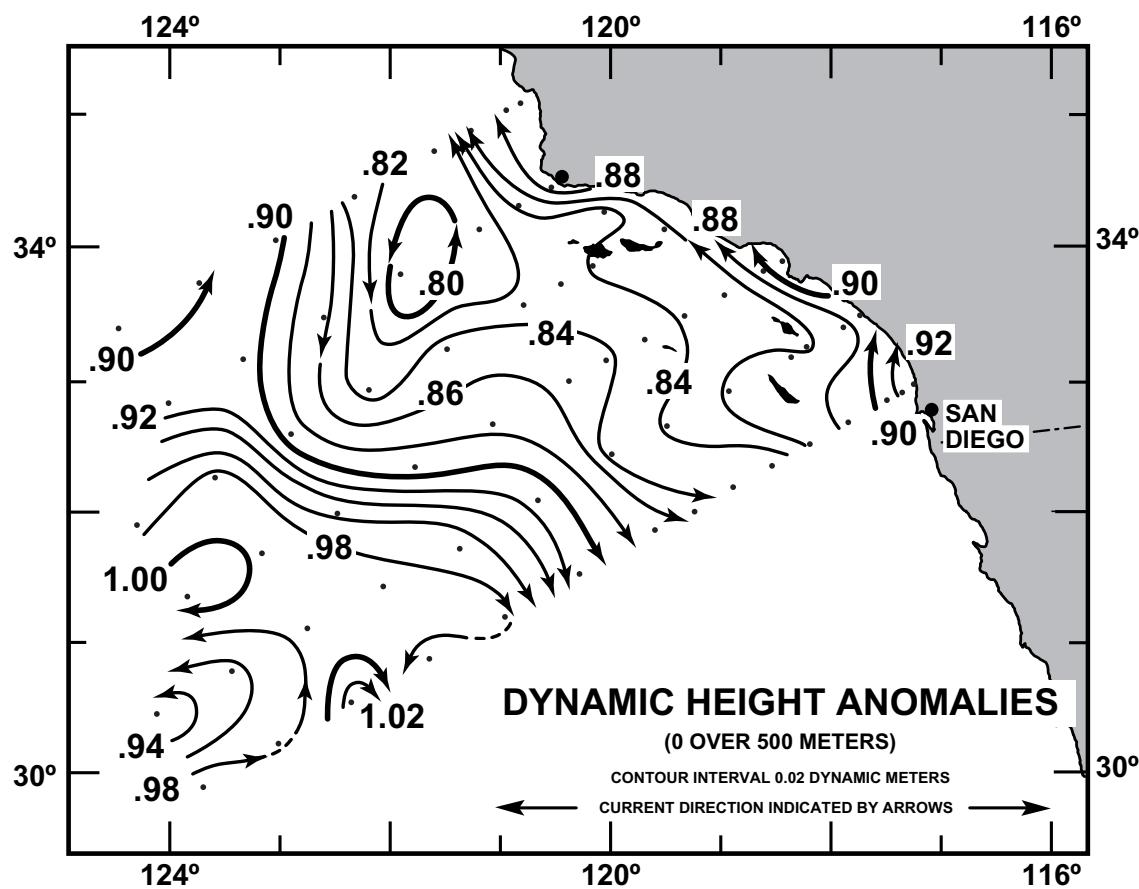


FIGURE 2

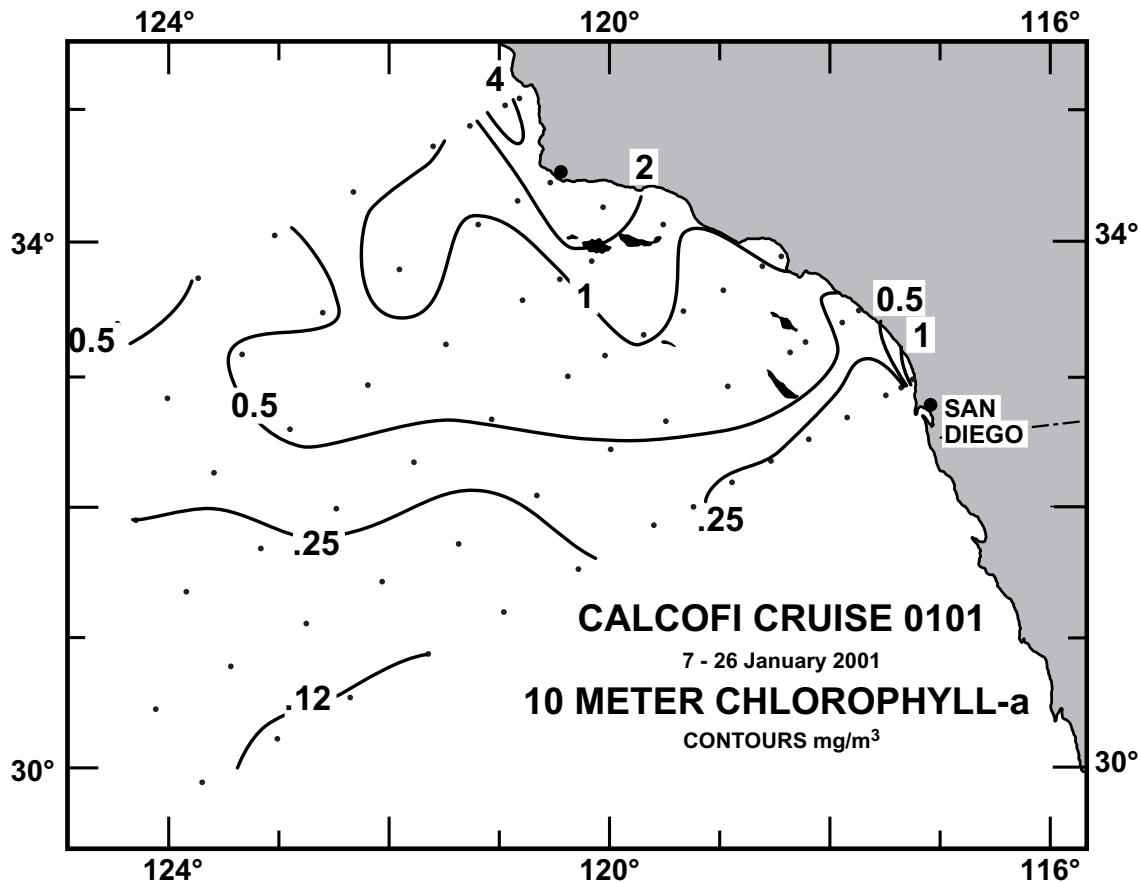


FIGURE 3A

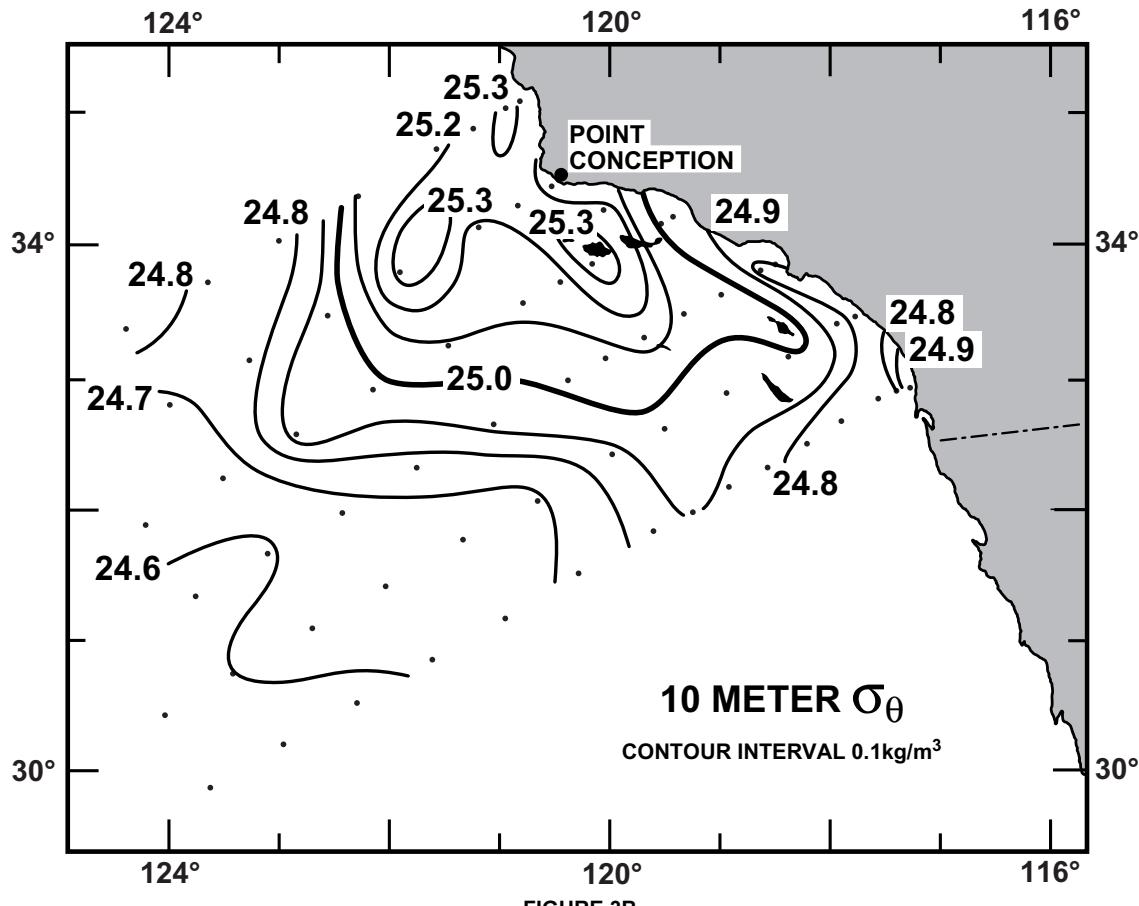


FIGURE 3B

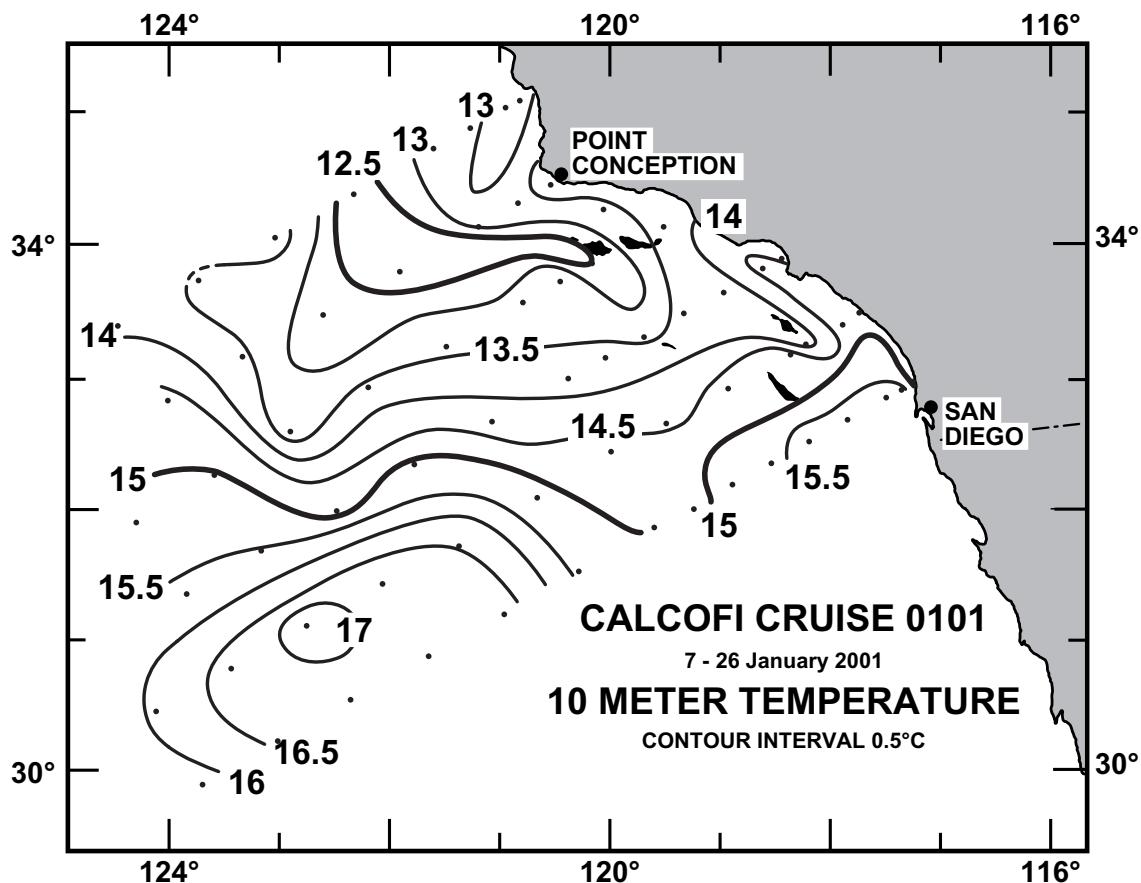


FIGURE 3C

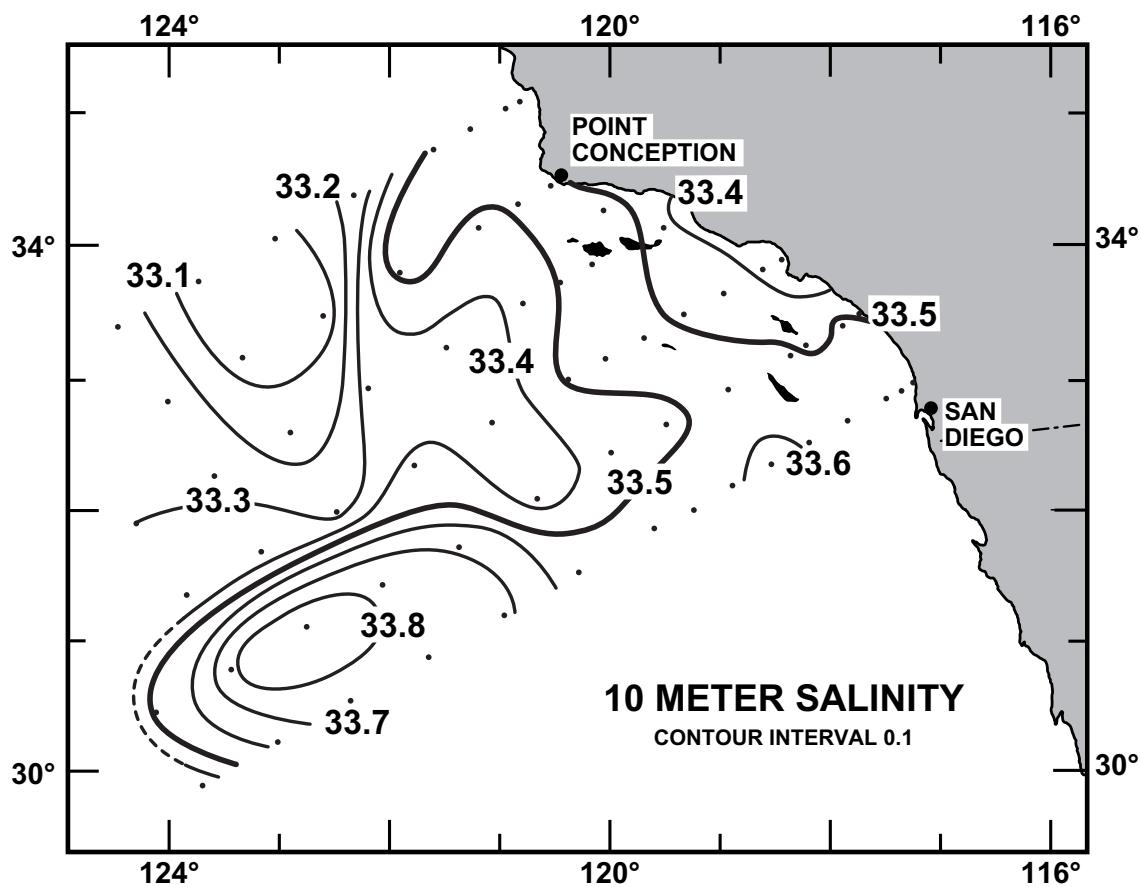


FIGURE 3D

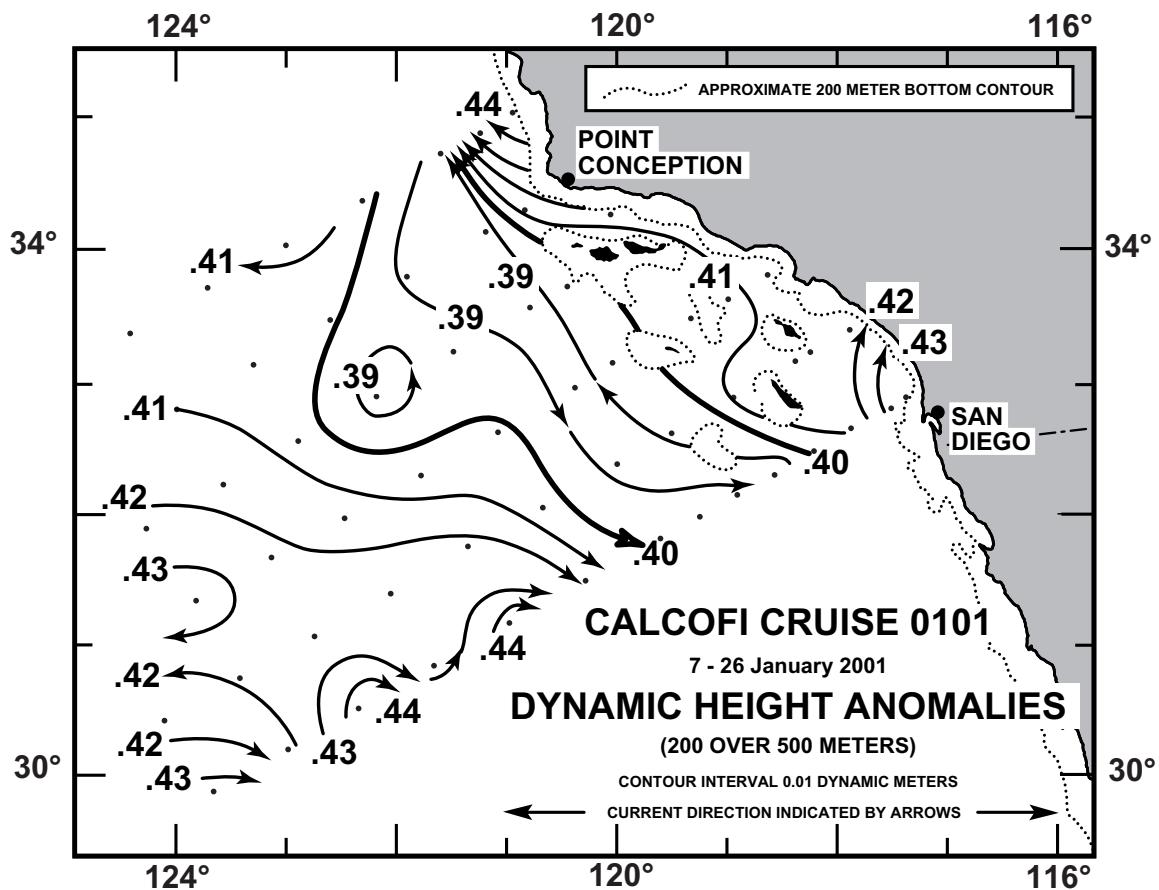


FIGURE 4A

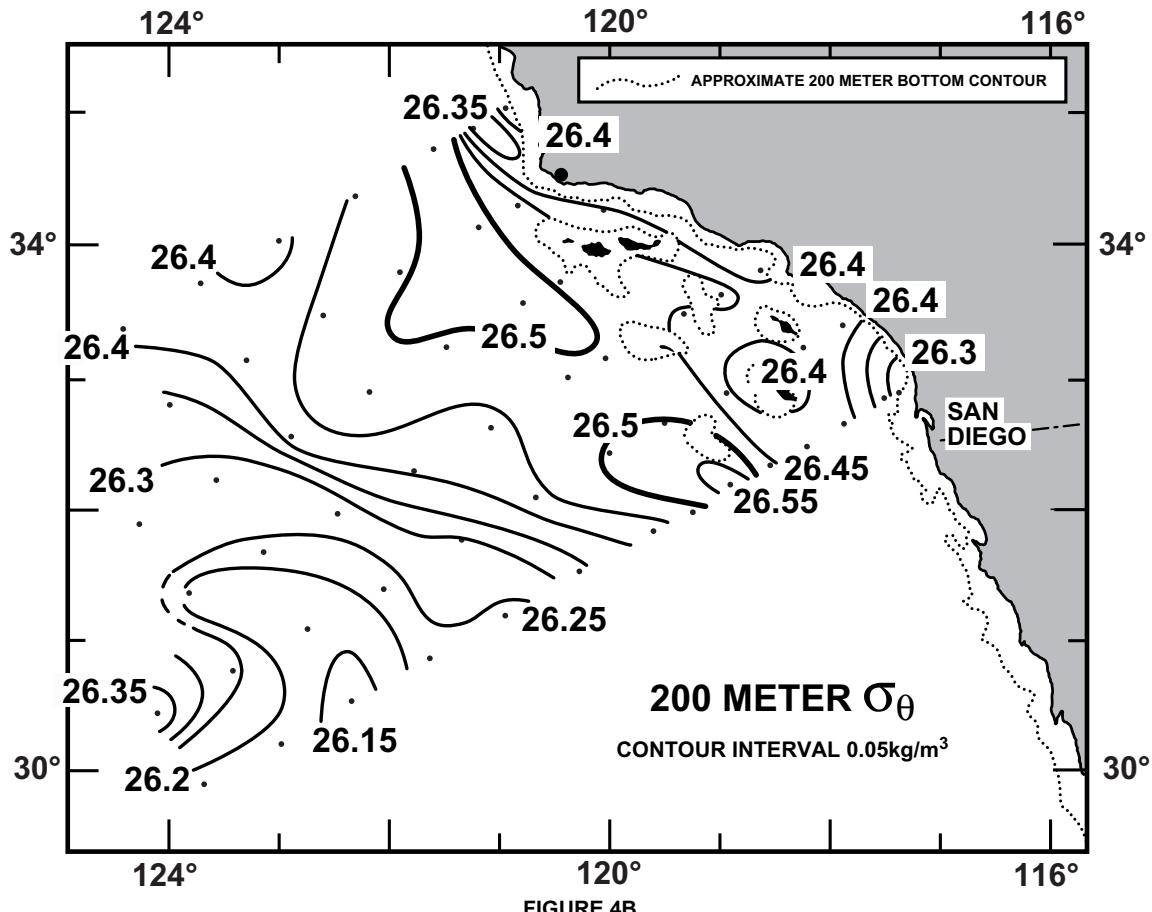


FIGURE 4B

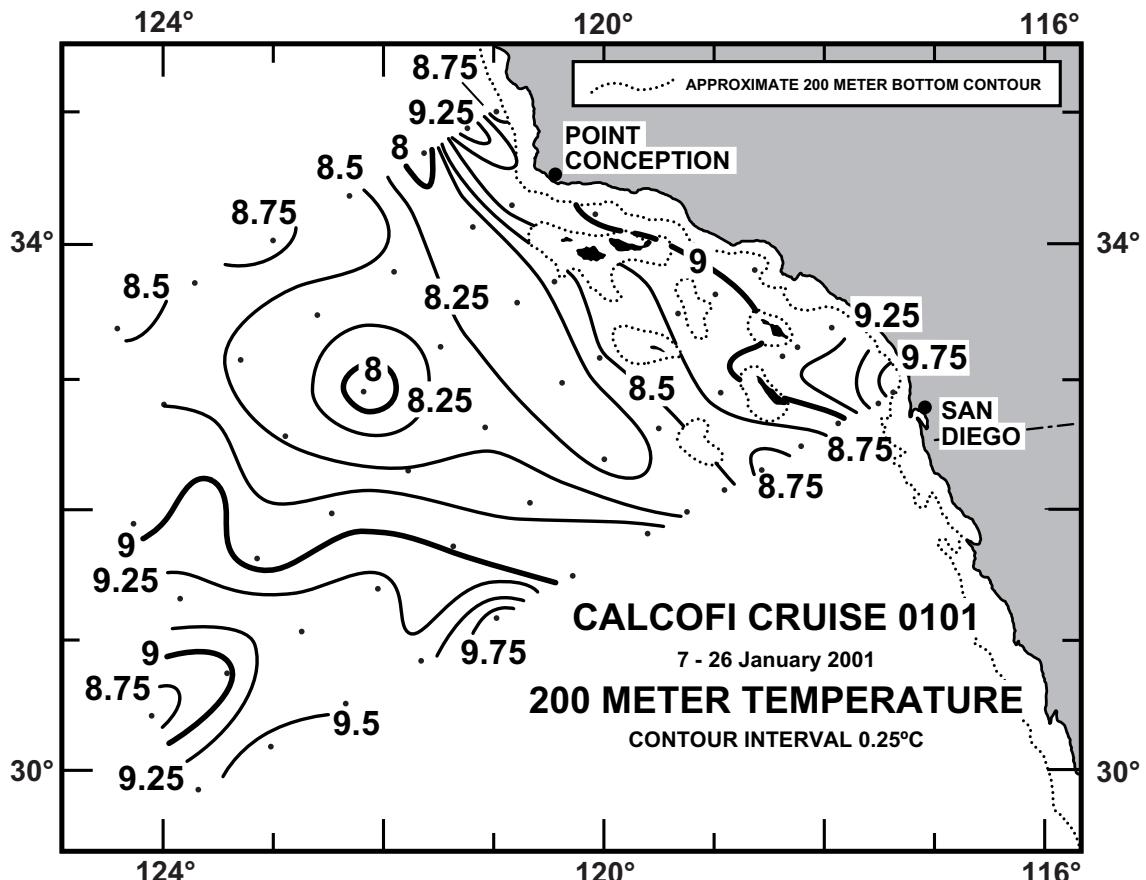


FIGURE 4C

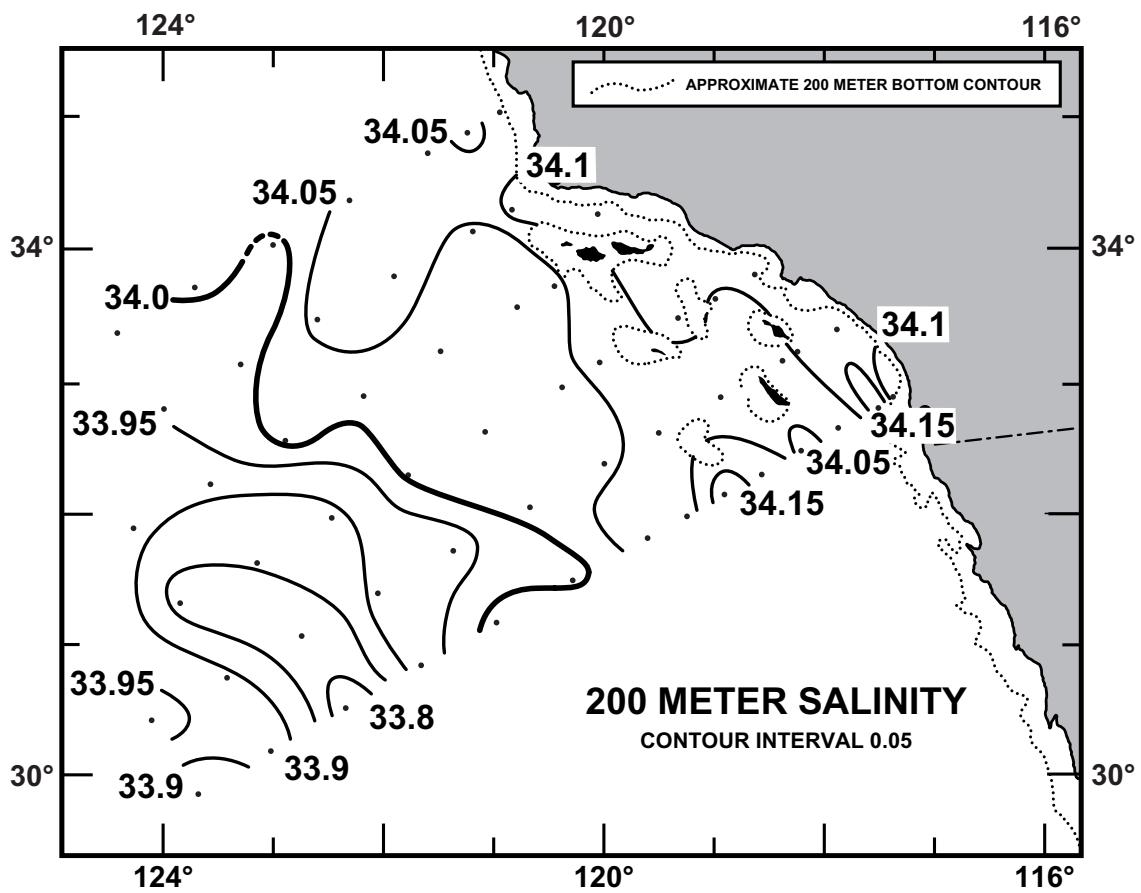
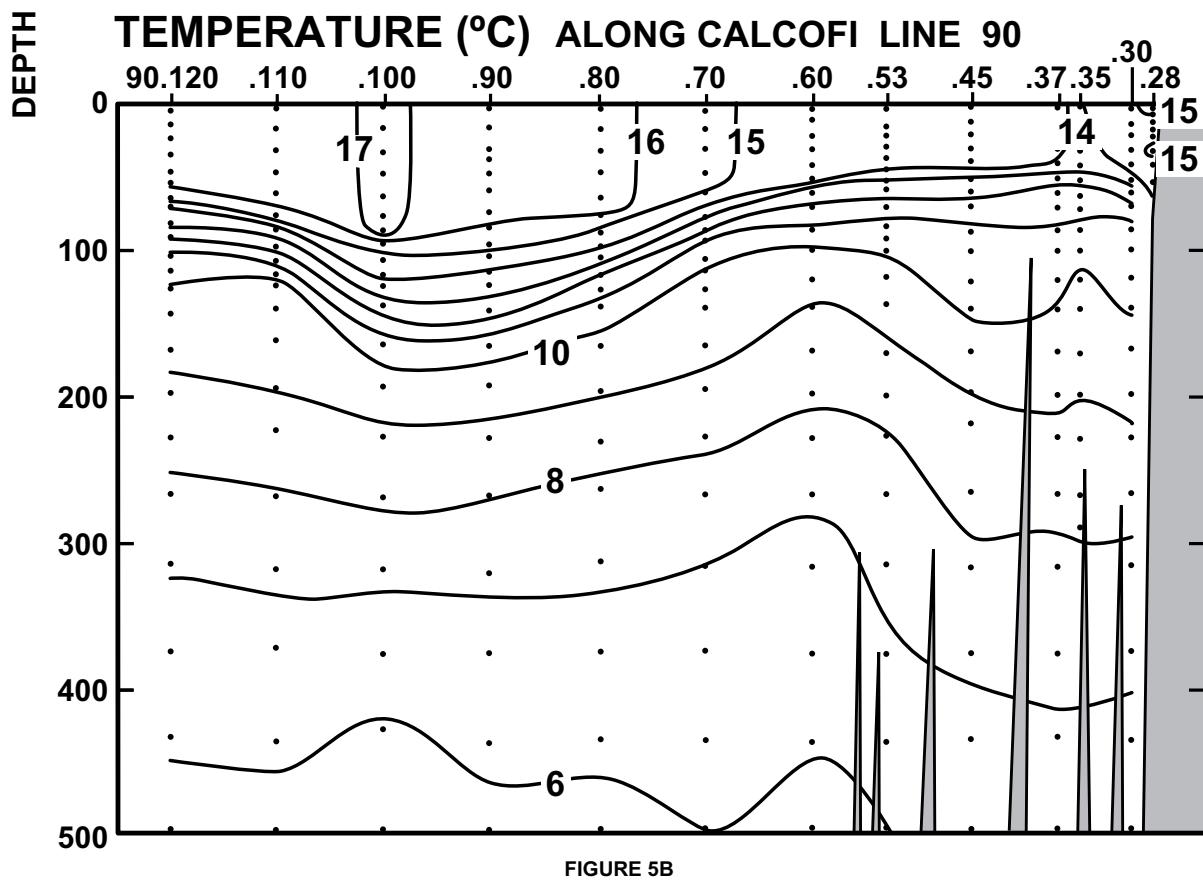
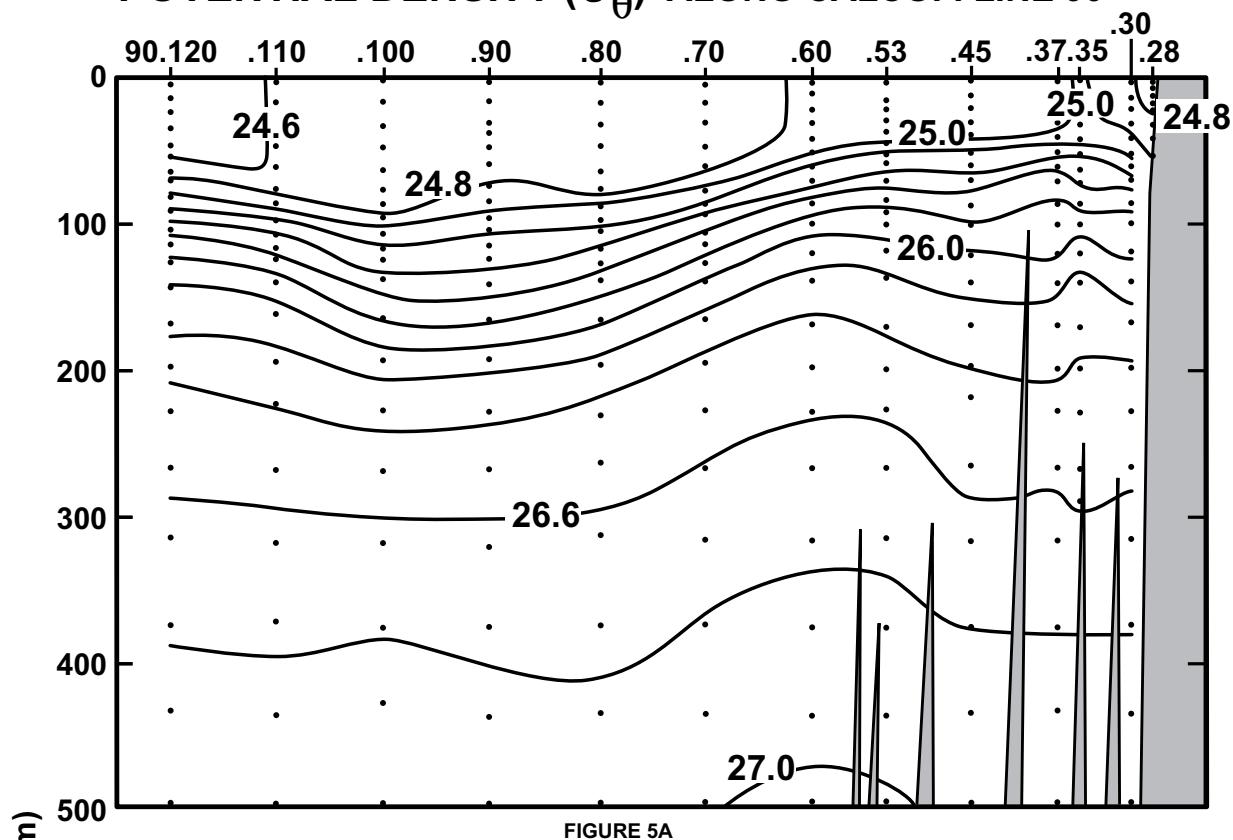


FIGURE 4D

CALCOFI CRUISE 0101

11 - 14 January 2001

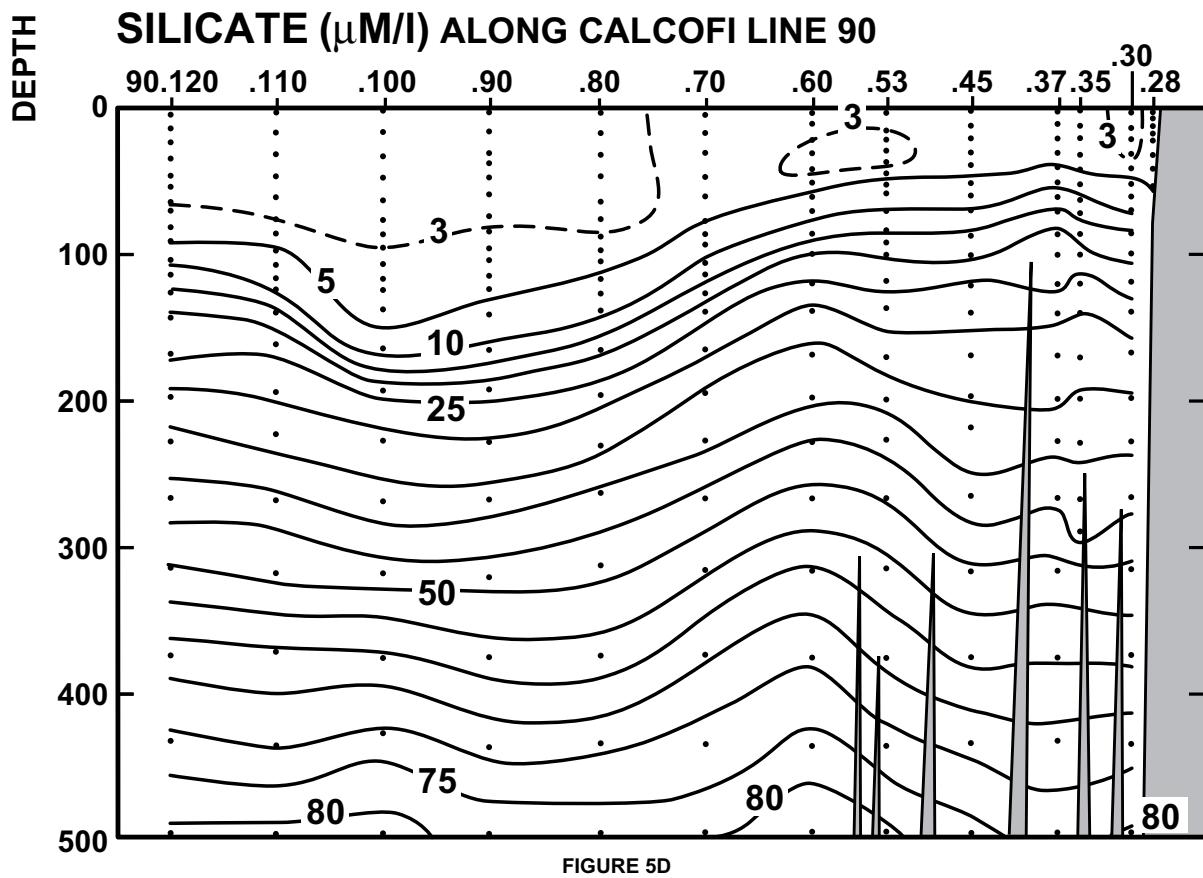
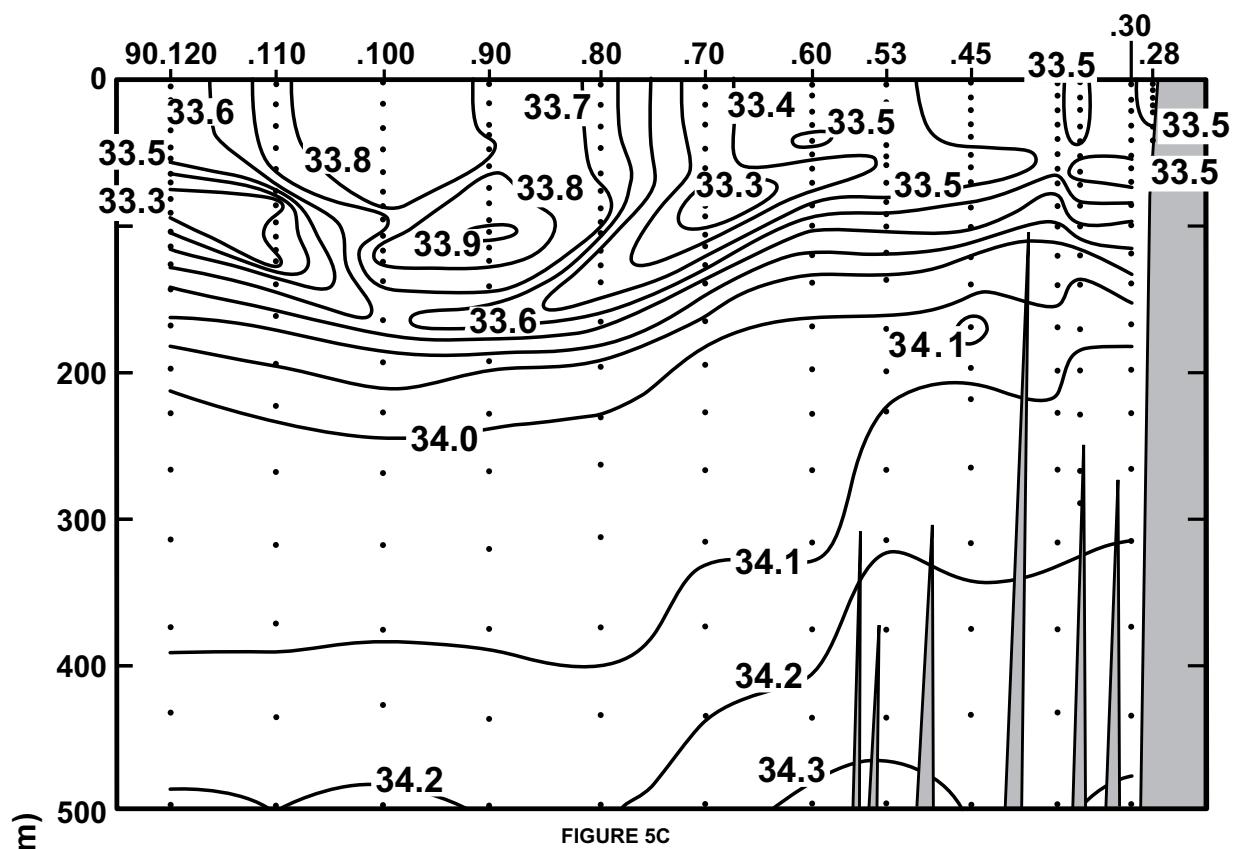
POTENTIAL DENSITY (σ_{θ}) ALONG CALCOFI LINE 90



CALCOFI CRUISE 0101

11 - 14 January 2001

SALINITY ALONG CALCOFI LINE 90



CALCOFI CRUISE 0101

11 - 14 January 2001

NITRATE ($\mu\text{M/l}$) ALONG CALCOFI LINE 90

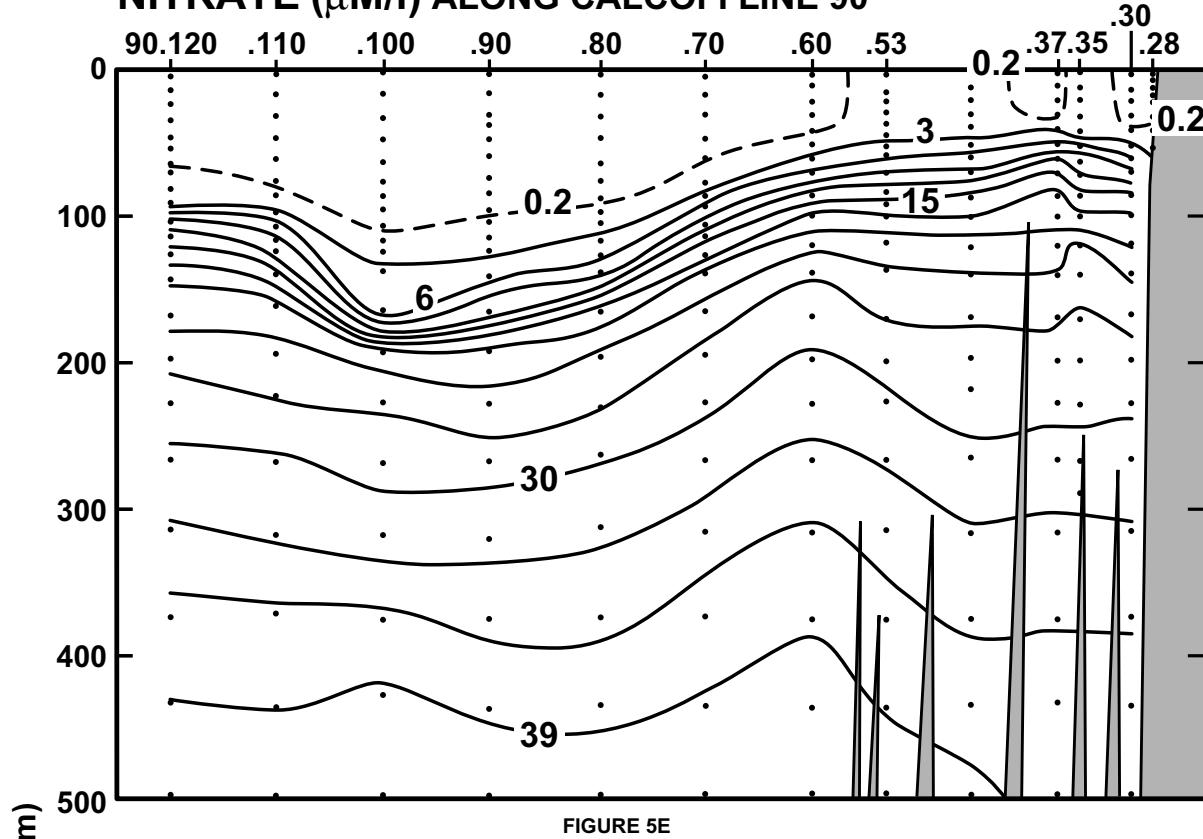


FIGURE 5E

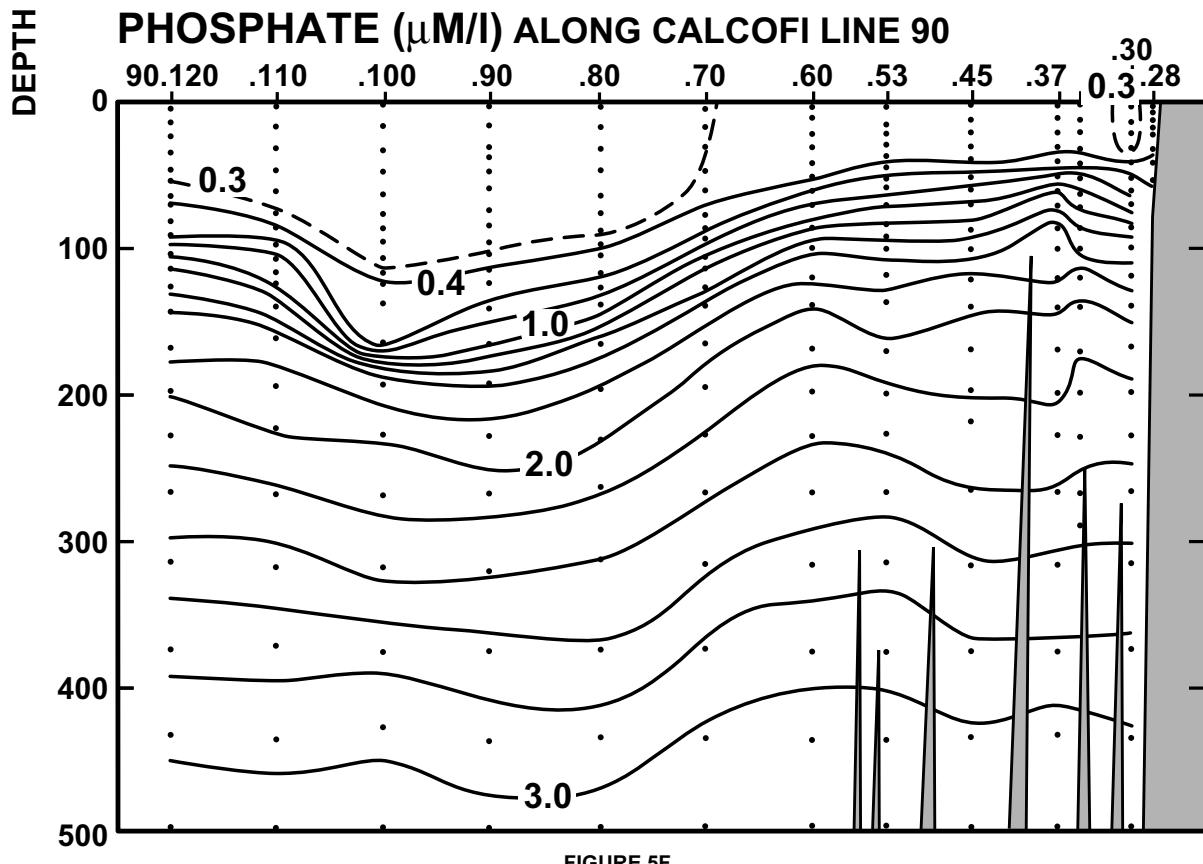


FIGURE 5F

CALCOFI CRUISE 0101
11 - 14 January 2001

CHLOROPHYLL-a ($\mu\text{g/l}$) ALONG CALCOFI LINE 90

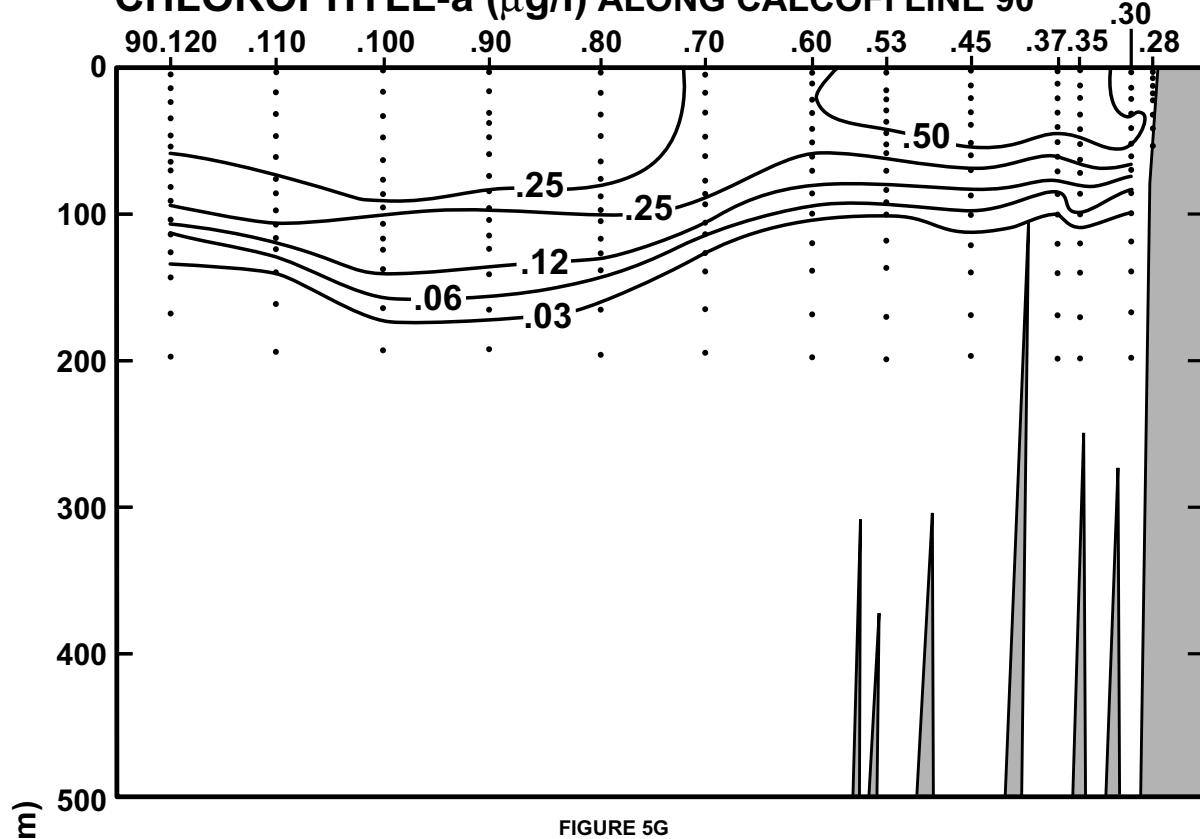


FIGURE 5G

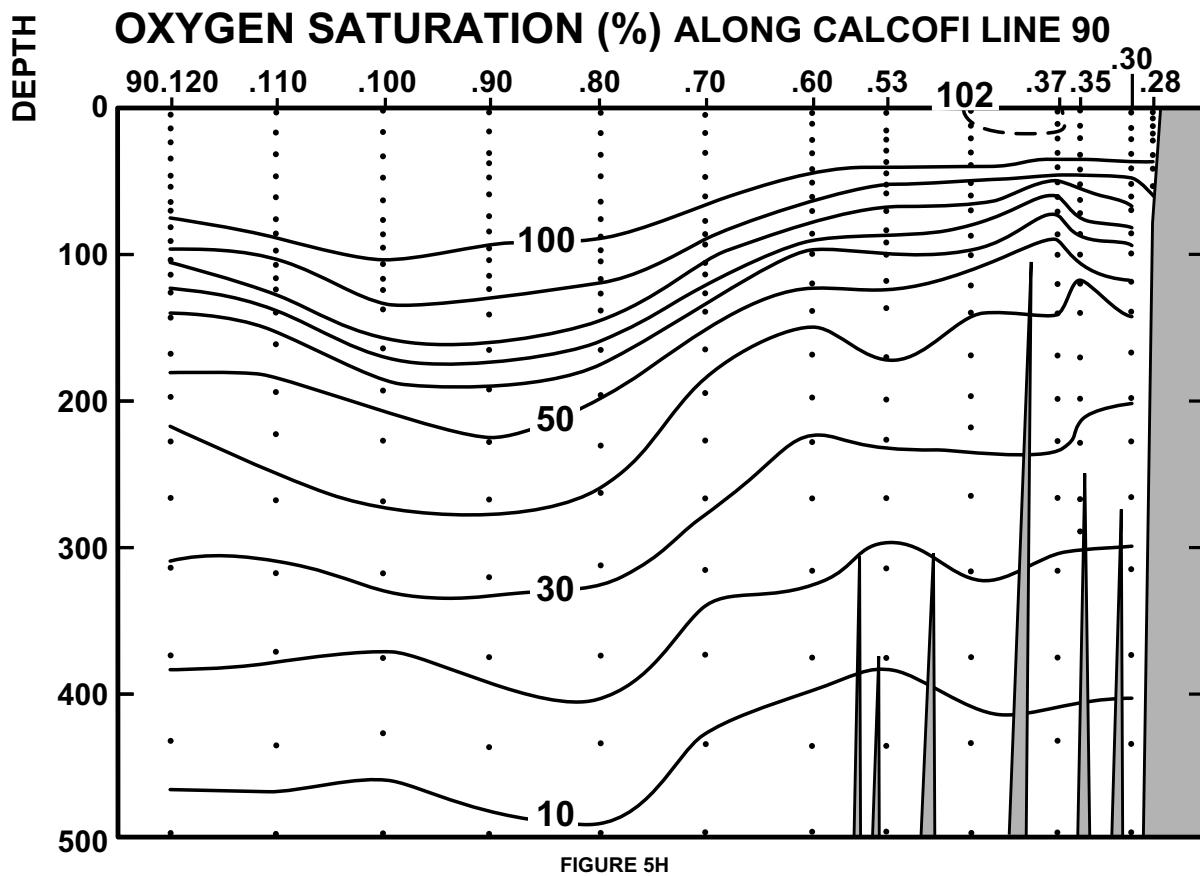


FIGURE 5H

CALCOFI CRUISE 0101

11 - 14 January 2001

OXYGEN (ml/l) ALONG CALCOFI LINE 90

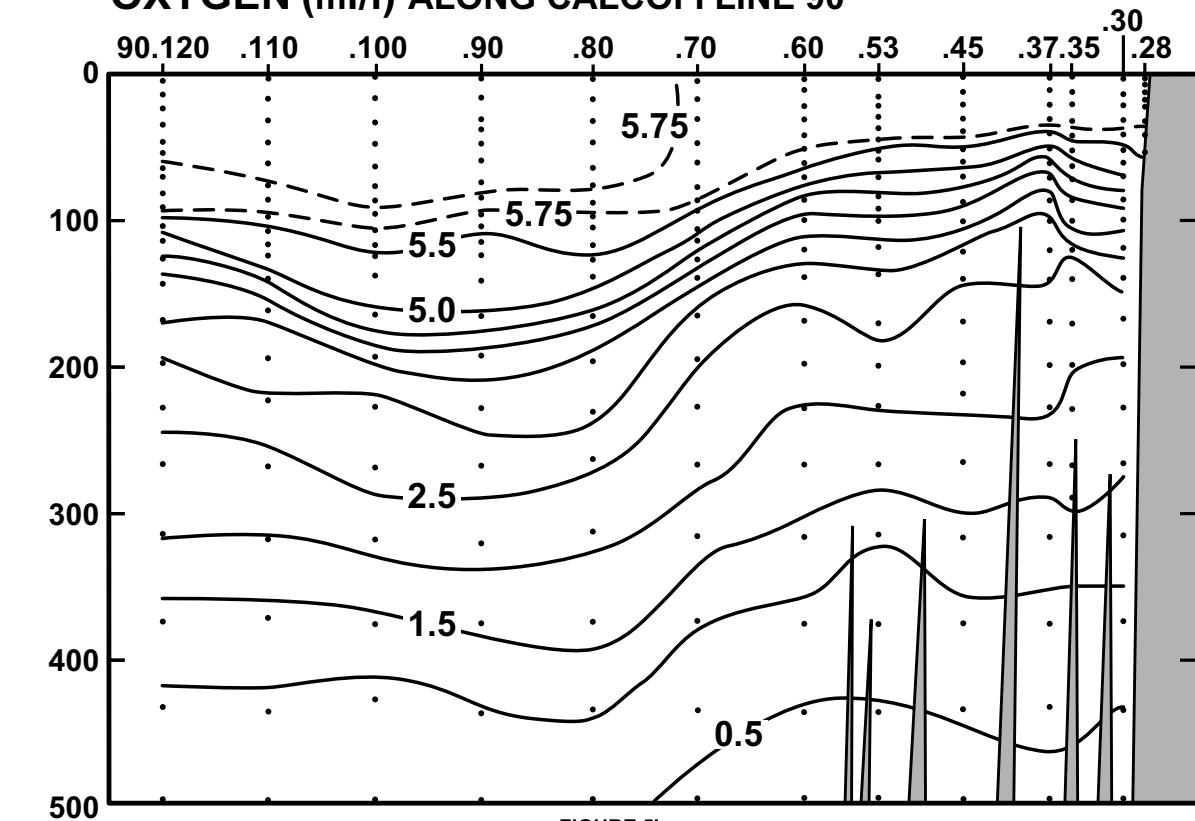


FIGURE 5I

NITRITE ($\mu\text{M/l}$) ALONG CALCOFI LINE 90

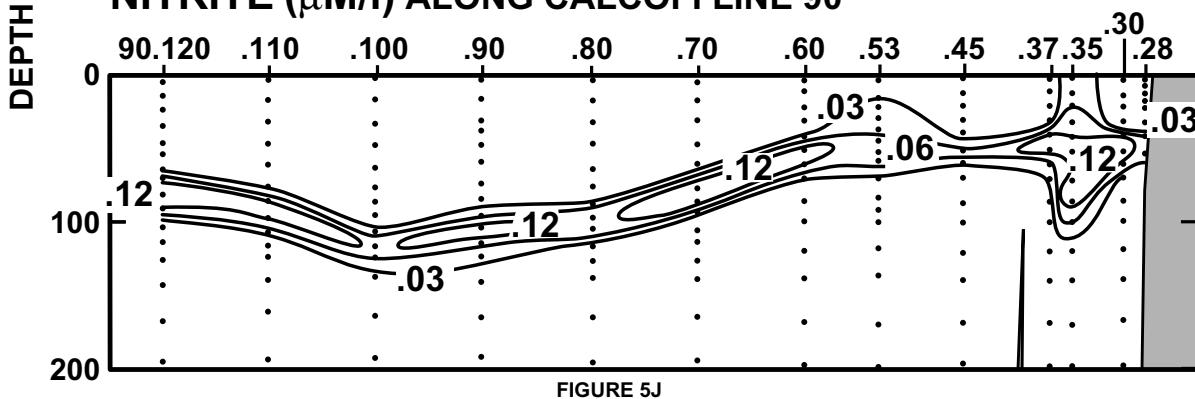


FIGURE 5J

PHAEOPIGMENTS ($\mu\text{g/l}$) ALONG CALCOFI LINE 90

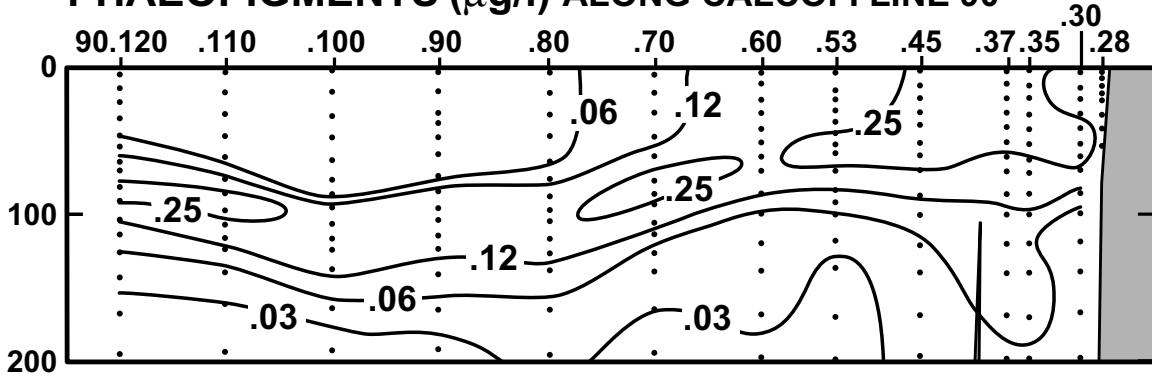


FIGURE 5K

PERSONNEL

CalCOFI Cruise 0101

SHIP'S CAPTAIN

P. Scott Hill, D.S. *Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | | Participating (Legs) |
|--|---|----------------------|
| Wilkinson, James R. (Chief Scientist) | Programmer Analyst, SIO | 1,2,3 |
| Becker, Susan M. | Staff Research Associate, SIO | 1,2,3 |
| Cummings, Sherry L. | Staff Research Associate, SIO | 1,2,3 |
| Dotson, Ronald C. | Fishery Biologist, NMFS | 1,2,3 |
| Goericke, Ralf | Assistant Research Oceanographer, SIO | 1,2 |
| Griffith, David A. | Fishery Biologist, NMFS | 3 |
| Gruber, Dennis W. | Staff Research Associate, SIO | 1,2,3 |
| Hays, Amy E. | Fishery Biologist, NMFS | 1,2,3 |
| Lim, Younghwa | Student, Seoul National University, Korea | 1,2,3 |
| Manion, Susan M. | Fishery Biologist, NMFS | 1 |
| Oedekoven, Cornelia | Seabird Biologist, Pt. Reyes Bird Observatory | 1,2,3 |
| Poteau, Antoine | Marine Technician, SIO | 1,2,3 |
| Wolgast, David M. | Staff Research Associate, SIO | 1,2,3 |

Leg 1: San Diego to Dana Point, California, 7-14 January, 2001

Leg 2: Dana Point to Ventura, California, 14-19 January, 2001

Leg 3: Ventura to San Diego, California, 19-26 January, 2001

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 49

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|--------|------|--------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 35 | 5.4 N | 120 46.7 W | 23/01/01 | 0343 | UTC | 68 m | 300 | 07 kn | | 1019.8 mb | 16.0 | C 12.0 C | | | | |
| 0 | ISL | 12.94 | 12.94 | 33.534 | 25.270 | 269.1 | 0.000 | 5.85 | 97.7 | 5.7 | 0.56 | 3.7 | 0.20 | 1.90 | 0.49 | 0 |
| 2 | | 12.94 | 12.94 | 33.534 | 25.270 | 269.2 | 0.005 | 5.85 | 97.7 | 5.7 | 0.56 | 3.7 | 0.20 | 1.90 | 0.49 | 2 215 |
| 6 | | 12.94 | 12.94 | 33.533 | 25.269 | 269.3 | 0.016 | 5.82 | 97.2 | 5.9 | 0.56 | 3.7 | 0.20 | 2.12 | 0.51 | 6 207 |
| 10 | | 12.94 | 12.94 | 33.534 | 25.270 | 269.3 | 0.027 | 5.81 | 97.0 | 5.7 | 0.55 | 3.8 | 0.21 | 2.15 | 0.56 | 10 206 |
| 19 | | 12.84 | 12.84 | 33.535 | 25.291 | 267.6 | 0.051 | 5.63 | 93.8 | 6.1 | 0.59 | 4.3 | 0.23 | 2.09 | 0.65 | 19 205 |
| 20 | ISL | 12.81 | 12.81 | 33.536 | 25.297 | 267.0 | 0.054 | 5.58 | 92.9 | 6.3 | 0.61 | 4.6 | 0.23 | 1.97 | 0.63 | 20 |
| 29 | | 12.42 | 12.42 | 33.555 | 25.388 | 258.6 | 0.077 | 5.09 | 84.1 | 8.9 | 0.81 | 7.6 | 0.23 | 0.77 | 0.47 | 29 204 |
| 30 | ISL | 12.37 | 12.37 | 33.557 | 25.399 | 257.6 | 0.080 | 5.04 | 83.2 | 9.2 | 0.83 | 7.9 | 0.23 | 0.71 | 0.47 | 30 |
| 39 | | 11.99 | 11.98 | 33.581 | 25.490 | 249.1 | 0.103 | 4.68 | 76.6 | 11.4 | 1.00 | 10.0 | 0.18 | 0.45 | 0.46 | 39 203 |
| 49 | | 11.68 | 11.67 | 33.614 | 25.574 | 241.4 | 0.127 | 4.41 | 71.7 | 13.9 | 1.17 | 12.5 | 0.14 | 0.34 | 0.50 | 49 202 |
| 50 | ISL | 11.63 | 11.62 | 33.619 | 25.587 | 240.1 | 0.130 | 4.35 | 70.7 | 14.3 | 1.19 | 12.8 | 0.13 | 0.32 | 0.49 | 50 |
| 57 | | 11.26 | 11.25 | 33.651 | 25.680 | 231.5 | 0.146 | 3.95 | 63.7 | 16.7 | 1.35 | 15.1 | 0.09 | 0.19 | 0.45 | 57 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|------|----------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 35 | 1.4 N | 120 55.0 W | 23/01/01 | 0121 | UTC | 229 m | 230 | 04 kn | 300 05 11 | 0 | 1018.2 mb | 12.6 | C 11.9 C | | | |
| 0 | ISL | 12.82 | 12.82 | 33.536 | 25.295 | 266.7 | 0.000 | 6.62 | 110.3 | 2.1 | 0.33 | 0.2 | 0.05 | 6.35 | 1.37 | 0 |
| 2 | | 12.82 | 12.82 | 33.536 | 25.295 | 266.8 | 0.005 | 6.62 | 110.3 | 2.1 | 0.33 | 0.2 | 0.05 | 6.35 | 1.37 | 2 215 |
| 10 | | 12.73 | 12.73 | 33.536 | 25.313 | 265.3 | 0.027 | 6.52 | 108.4 | 2.5 | 0.36 | 0.6 | 0.07 | 6.26 | 1.49 | 10 214 |
| 20 | | 12.67 | 12.67 | 33.537 | 25.326 | 264.3 | 0.053 | 6.03 | 100.1 | 3.7 | 0.48 | 2.1 | 0.13 | 3.88 | 1.30 | 20 213 |
| 30 | | 12.58 | 12.58 | 33.535 | 25.342 | 263.0 | 0.079 | 5.94 | 98.5 | 4.0 | 0.52 | 2.8 | 0.15 | 4.22 | 1.52 | 30 212 |
| 40 | | 12.52 | 12.51 | 33.540 | 25.358 | 261.8 | 0.106 | 5.65 | 93.5 | 5.6 | 0.62 | 4.3 | 0.18 | 2.42 | 1.10 | 40 211 |
| 50 | | 12.39 | 12.38 | 33.549 | 25.390 | 259.0 | 0.132 | 5.42 | 89.5 | 7.0 | 0.72 | 5.9 | 0.22 | 1.39 | 0.81 | 50 210 |
| 59 | | 11.59 | 11.58 | 33.560 | 25.549 | 244.0 | 0.154 | 4.75 | 77.1 | 11.0 | 1.01 | 10.8 | 0.16 | 0.82 | 0.53 | 59 209 |
| 69 | | 10.89 | 10.88 | 33.636 | 25.735 | 226.5 | 0.178 | 3.98 | 63.7 | 16.3 | 1.36 | 16.1 | 0.04 | 0.17 | 0.37 | 69 208 |
| 75 | ISL | 10.58 | 10.57 | 33.688 | 25.830 | 217.6 | 0.191 | 3.65 | 58.0 | 18.8 | 1.51 | 18.3 | 0.03 | 0.13 | 0.33 | 75 |
| 84 | | 10.21 | 10.20 | 33.769 | 25.957 | 205.6 | 0.210 | 3.28 | 51.7 | 22.1 | 1.68 | 20.9 | 0.02 | 0.06 | 0.30 | 84 207 |
| 100 | | 9.72 | 9.71 | 33.908 | 26.148 | 187.7 | 0.242 | 2.84 | 44.4 | 27.4 | 1.93 | 24.5 | 0.00 | 0.03 | 0.19 | 101 206 |
| 119 | | 9.42 | 9.41 | 33.969 | 26.246 | 178.8 | 0.277 | 2.57 | 39.9 | 30.1 | 2.03 | 26.1 | 0.00 | 0.02 | 0.16 | 120 205 |
| 125 | ISL | 9.35 | 9.34 | 33.988 | 26.272 | 176.5 | 0.287 | 2.50 | 38.7 | 30.9 | 2.06 | 26.5 | 0.00 | 0.02 | 0.18 | 126 |
| 138 | | 9.23 | 9.21 | 34.023 | 26.319 | 172.2 | 0.310 | 2.38 | 36.8 | 32.5 | 2.12 | 27.3 | 0.01 | 0.02 | 0.22 | 139 204 |
| 150 | ISL | 9.13 | 9.11 | 34.037 | 26.346 | 169.9 | 0.330 | 2.29 | 35.3 | 33.4 | 2.15 | 27.8 | 0.01 | 0.02 | 0.19 | 151 |
| 168 | | 8.99 | 8.97 | 34.044 | 26.374 | 167.6 | 0.361 | 2.20 | 33.8 | 34.5 | 2.19 | 28.3 | 0.01 | 0.02 | 0.13 | 169 203 |
| 200 | | 8.67 | 8.65 | 34.052 | 26.431 | 162.7 | 0.414 | 2.26 | 34.5 | 36.8 | 2.24 | 29.2 | 0.02 | 0.01 | 0.13 | 201 202 |
| 220 | | 8.21 | 8.19 | 34.071 | 26.517 | 154.7 | 0.445 | 2.04 | 30.8 | 40.9 | 2.35 | 30.7 | 0.01 | | | 221 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|------|----------|--------|--------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 | 53.2 N | 121 11.9 W | 22/01/01 | 2117 | UTC | 562 m | 200 | 04 kn | 280 10 12 | 1 | 1018.8 mb | 14.2 | C 12.5 C | | | |
| 0 | ISL | 13.28 | 13.28 | 33.526 | 25.196 | 276.1 | 0.000 | 6.12 | 102.9 | 4.6 | 0.43 | 1.7 | 0.08 | 2.07 | 0.46 | 0 |
| 2 | | 13.28 | 13.28 | 33.526 | 25.196 | 276.2 | 0.006 | 6.12 | 102.9 | 4.6 | 0.43 | 1.7 | 0.08 | 2.07 | 0.46 | 2 220 |
| 9 | | 13.15 | 13.15 | 33.527 | 25.223 | 273.8 | 0.025 | 6.15 | 103.2 | 4.5 | 0.44 | 1.8 | 0.08 | 1.65 | 0.65 | 9 219 |
| 10 | ISL | 13.14 | 13.14 | 33.527 | 25.225 | 273.6 | 0.028 | 6.15 | 103.1 | 4.5 | 0.44 | 1.8 | 0.08 | 1.66 | 0.65 | 10 218 |
| 19 | | 13.09 | 13.09 | 33.526 | 25.234 | 273.0 | 0.052 | 6.12 | 102.5 | 4.3 | 0.44 | 1.8 | 0.08 | 1.98 | 0.69 | 19 218 |
| 20 | ISL | 13.09 | 13.09 | 33.526 | 25.234 | 273.0 | 0.055 | 6.12 | 102.5 | 4.3 | 0.44 | 1.8 | 0.08 | 1.99 | 0.69 | 20 |
| 29 | | 13.05 | 13.05 | 33.525 | 25.242 | 272.6 | 0.079 | 6.08 | 101.8 | 4.0 | 0.44 | 1.8 | 0.08 | 2.05 | 0.67 | 29 217 |
| 30 | ISL | 13.03 | 13.03 | 33.524 | 25.245 | 272.3 | 0.082 | 6.06 | 101.4 | 4.2 | 0.45 | 1.9 | 0.09 | 2.01 | 0.67 | 30 |
| 39 | | 12.61 | 12.60 | 33.535 | 25.336 | 263.8 | 0.106 | 5.55 | 92.0 | 6.0 | 0.65 | 5.1 | 0.16 | 1.37 | 0.56 | 39 216 |
| 49 | | 11.34 | 11.33 | 33.635 | 25.653 | 233.9 | 0.131 | 4.12 | 66.5 | 14.1 | 1.24 | 14.0 | 0.07 | 0.27 | 0.25 | 49 215 |
| 50 | ISL | 11.28 | 11.27 | 33.642 | 25.669 | 232.3 | 0.133 | 4.05 | 65.3 | 14.5 | 1.27 | 14.5 | 0.06 | 0.26 | 0.25 | 50 |
| 59 | | 10.98 | 10.97 | 33.686 | 25.758 | 224.1 | 0.154 | 3.73 | 59.8 | 16.5 | 1.43 | 16.9 | 0.03 | 0.17 | 0.23 | 59 214 |
| 69 | | 10.90 | 10.89 | 33.694 | 25.778 | 222.4 | 0.176 | 3.66 | 58.6 | 16.9 | 1.46 | 17.3 | 0.02 | 0.14 | 0.19 | 69 213 |
| 75 | ISL | 10.82 | 10.81 | 33.701 | 25.798 | 220.6 | 0.190 | 3.62 | 57.8 | 17.4 | 1.48 | 17.7 | 0.02 | 0.12 | 0.18 | 75 |
| 84 | | 10.64 | 10.63 | 33.720 | 25.845 | 216.4 | 0.209 | 3.52 | 56.0 | 18.7 | 1.54 | 18.7 | 0.02 | 0.10 | 0.17 | 84 212 |
| 100 | | 10.08 | 10.07 | 33.802 | 26.005 | 201.4 | 0.243 | 3.17 | 49.9 | 22.5 | 1.73 | 21.6 | 0.01 | 0.05 | 0.13 | 101 211 |
| 119 | | 9.77 | 9.76 | 33.889 | 26.126 | 190.3 | 0.280 | 2.83 | 44.2 | 26.1 | 1.88 | 23.9 | 0.01 | 0.02 | 0.11 | 120 210 |
| 125 | ISL | 9.70 | 9.69 | 33.908 | 26.152 | 187.9 | 0.291 | 2.75 | 42.9 | 26.9 | 1.91 | 24.4 | 0.01 | 0.02 | 0.11</ | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 43.3 N | 121 33.3 W | 22/01/01 | 1757 | UTC | 930 m | 130 | 07 kn | 270 10 10 | 1 | 1019.1 mb | 13.1 | C 11.9 C | 15m | 1/8 | AC | |
| 0 ISL | 13.26 | 13.26 | 33.503 | 25.182 | 277.4 | 0.000 | 6.01 | 101.0 | 4.5 | 0.40 | 1.2 | 0.07 | 0.89 | 0.30 | 0 | |
| 1 A | 13.26 | 13.26 | 33.503 | 25.182 | 277.5 | 0.003 | 6.01 | 101.0 | 4.5 | 0.40 | 1.2 | 0.07 | 0.89 | 0.30 | 1 | 221 |
| 9 A | 13.22 | 13.22 | 33.503 | 25.190 | 276.9 | 0.025 | 6.00 | 100.8 | 4.4 | 0.39 | 1.2 | 0.07 | 0.96 | 0.29 | 9 | 220 |
| 10 ISL | 13.22 | 13.22 | 33.503 | 25.190 | 276.9 | 0.028 | 6.00 | 100.8 | 4.4 | 0.39 | 1.2 | 0.07 | 0.96 | 0.29 | 10 | |
| 19 A | 13.21 | 13.21 | 33.504 | 25.193 | 276.9 | 0.053 | 6.00 | 100.8 | 4.3 | 0.39 | 1.2 | 0.07 | 0.90 | 0.31 | 19 | 219 |
| 20 ISL | 13.21 | 13.21 | 33.504 | 25.193 | 276.9 | 0.055 | 6.00 | 100.8 | 4.3 | 0.39 | 1.2 | 0.07 | 0.90 | 0.31 | 20 | |
| 30 ISL | 13.21 | 13.21 | 33.503 | 25.193 | 277.2 | 0.083 | 5.99 | 100.6 | 4.2 | 0.40 | 1.2 | 0.07 | 0.87 | 0.31 | 30 | |
| 31 A | 13.21 | 13.21 | 33.503 | 25.193 | 277.3 | 0.086 | 5.99 | 100.6 | 4.2 | 0.40 | 1.2 | 0.07 | 0.87 | 0.31 | 31 | 218 |
| 40 A | 13.21 | 13.20 | 33.503 | 25.193 | 277.5 | 0.111 | 5.99 | 100.6 | 4.0 | 0.40 | 1.3 | 0.07 | 0.87 | 0.31 | 40 | 217 |
| 47 | 13.20 | 13.19 | 33.503 | 25.195 | 277.5 | 0.130 | 5.97 | 100.2 | 3.9 | 0.40 | 1.3 | 0.07 | 0.73 | 0.29 | 47 | 216 |
| 50 ISL | 12.76 | 12.75 | 33.461 | 25.250 | 272.3 | 0.139 | 5.81 | 96.6 | 4.7 | 0.50 | 2.7 | 0.09 | 0.57 | 0.27 | 50 | |
| 55 A | 11.88 | 11.87 | 33.399 | 25.370 | 260.9 | 0.152 | 5.45 | 88.9 | 6.6 | 0.71 | 5.9 | 0.10 | 0.31 | 0.23 | 55 | 215 |
| 63 | 11.07 | 11.06 | 33.423 | 25.537 | 245.2 | 0.172 | 4.91 | 78.7 | 9.8 | 1.00 | 10.7 | 0.03 | 0.19 | 0.17 | 63 | 214 |
| 70 | 10.70 | 10.69 | 33.470 | 25.639 | 235.6 | 0.189 | 4.58 | 72.9 | 12.5 | 1.19 | 13.8 | 0.02 | 0.14 | 0.15 | 70 | 213 |
| 75 ISL | 10.44 | 10.43 | 33.525 | 25.727 | 227.3 | 0.200 | 4.30 | 68.1 | 14.7 | 1.33 | 16.0 | 0.02 | 0.10 | 0.13 | 75 | |
| 84 | 10.05 | 10.04 | 33.630 | 25.876 | 213.3 | 0.220 | 3.82 | 60.0 | 18.6 | 1.54 | 19.3 | 0.01 | 0.04 | 0.11 | 84 | 212 |
| 100 | 9.69 | 9.68 | 33.757 | 26.035 | 198.5 | 0.253 | 3.33 | 51.9 | 23.1 | 1.73 | 22.4 | 0.00 | 0.02 | 0.22 | 101 | 211 |
| 119 | 9.32 | 9.31 | 33.873 | 26.187 | 184.4 | 0.290 | 2.84 | 43.9 | 27.8 | 1.93 | 25.6 | 0.00 | 0.01 | 0.07 | 120 | 210 |
| 125 ISL | 9.18 | 9.17 | 33.906 | 26.235 | 179.9 | 0.301 | 2.72 | 42.0 | 29.3 | 1.99 | 26.4 | 0.00 | 0.01 | 0.06 | 126 | |
| 139 | 8.85 | 8.84 | 33.971 | 26.339 | 170.3 | 0.325 | 2.50 | 38.3 | 32.6 | 2.10 | 28.0 | 0.00 | 0.00 | 0.05 | 140 | 209 |
| 150 ISL | 8.68 | 8.66 | 33.998 | 26.386 | 165.9 | 0.344 | 2.41 | 36.8 | 34.4 | 2.15 | 28.7 | 0.00 | 0.00 | 0.04 | 151 | |
| 169 | 8.44 | 8.42 | 34.023 | 26.443 | 160.8 | 0.375 | 2.31 | 35.1 | 37.0 | 2.20 | 29.4 | 0.00 | 0.00 | 0.04 | 170 | 208 |
| 197 | 8.04 | 8.02 | 34.057 | 26.531 | 152.9 | 0.419 | 2.17 | 32.7 | 41.1 | 2.30 | 30.7 | 0.00 | 0.00 | 0.03 | 198 | 207 |
| 200 ISL | 8.00 | 7.98 | 34.060 | 26.539 | 152.2 | 0.423 | 2.15 | 32.3 | 41.6 | 2.31 | 30.8 | 0.00 | | | 201 | |
| 228 | 7.68 | 7.66 | 34.086 | 26.606 | 146.1 | 0.465 | 1.89 | 28.2 | 45.9 | 2.43 | 32.0 | 0.00 | | | 229 | 206 |
| 250 ISL | 7.59 | 7.57 | 34.119 | 26.646 | 142.8 | 0.497 | 1.65 | 24.6 | 48.6 | 2.52 | 32.8 | 0.00 | | | 252 | |
| 269 | 7.53 | 7.50 | 34.146 | 26.676 | 140.2 | 0.524 | 1.45 | 21.6 | 50.9 | 2.60 | 33.5 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.27 | 7.24 | 34.167 | 26.729 | 135.5 | 0.566 | 1.23 | 18.2 | 55.0 | 2.71 | 34.7 | 0.00 | | | 302 | |
| 318 | 7.10 | 7.07 | 34.174 | 26.759 | 132.9 | 0.590 | 1.13 | 16.6 | 57.5 | 2.77 | 35.4 | 0.00 | | | 320 | 204 |
| 377 | 6.62 | 6.59 | 34.196 | 26.842 | 125.6 | 0.667 | 0.82 | 11.9 | 65.5 | 2.92 | 37.5 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.47 | 6.43 | 34.208 | 26.871 | 123.1 | 0.695 | 0.73 | 10.6 | 68.2 | 2.97 | 38.2 | 0.00 | | | 403 | |
| 437 | 6.23 | 6.19 | 34.227 | 26.918 | 119.0 | 0.740 | 0.61 | 8.8 | 72.6 | 3.04 | 39.1 | 0.00 | | | 440 | 202 |
| 500 ISL | 5.77 | 5.73 | 34.247 | 26.992 | 112.3 | 0.813 | 0.45 | 6.4 | 80.8 | 3.14 | 40.6 | 0.00 | | | 504 | |
| 515 | 5.66 | 5.62 | 34.253 | 27.010 | 110.7 | 0.830 | 0.41 | 5.8 | 82.8 | 3.17 | 41.0 | 0.00 | | | 519 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 23.4 N | 122 15.0 W | 22/01/01 | 1037 | UTC | 4015 m | 130 | 08 kn | | | | | | | | | |
| 0 ISL | 12.31 | 12.31 | 33.262 | 25.181 | 277.5 | 0.000 | 6.10 | 100.4 | 5.6 | 0.50 | 2.5 | 0.11 | 0.89 | 0.27 | 0 | |
| 2 | 12.31 | 12.31 | 33.262 | 25.181 | 277.6 | 0.006 | 6.10 | 100.4 | 5.6 | 0.50 | 2.5 | 0.11 | 0.89 | 0.27 | 2 | 224 |
| 10 | 12.31 | 12.31 | 33.266 | 25.185 | 277.5 | 0.028 | 6.10 | 100.4 | 5.9 | 0.50 | 2.5 | 0.10 | 0.94 | 0.29 | 10 | 219 |
| 19 | 12.37 | 12.37 | 33.434 | 25.304 | 266.4 | 0.052 | 5.99 | 98.8 | 6.0 | 0.55 | 3.5 | 0.16 | 1.48 | 0.45 | 19 | 218 |
| 20 ISL | 12.38 | 12.38 | 33.439 | 25.306 | 266.2 | 0.055 | 5.99 | 98.8 | 6.0 | 0.55 | 3.5 | 0.16 | 1.50 | 0.46 | 20 | |
| 30 | 12.43 | 12.43 | 33.481 | 25.329 | 264.3 | 0.081 | 5.98 | 98.8 | 5.9 | 0.56 | 3.6 | 0.14 | 1.65 | 0.56 | 30 | 217 |
| 40 | 12.40 | 12.39 | 33.501 | 25.350 | 262.5 | 0.108 | 5.88 | 97.1 | 6.0 | 0.59 | 4.0 | 0.15 | 1.13 | 0.54 | 40 | 216 |
| 50 ISL | 12.35 | 12.34 | 33.496 | 25.356 | 262.2 | 0.137 | 5.78 | 95.5 | 6.4 | 0.63 | 4.5 | 0.18 | 0.71 | 0.44 | 50 | |
| 51 | 12.35 | 12.34 | 33.496 | 25.356 | 262.2 | 0.137 | 5.78 | 95.3 | 6.4 | 0.63 | 4.5 | 0.18 | 0.67 | 0.42 | 51 | 215 |
| 59 | 11.87 | 11.86 | 33.514 | 25.461 | 252.4 | 0.157 | 4.96 | 81.0 | 10.1 | 0.95 | 9.6 | 0.21 | 0.26 | 0.23 | 59 | 214 |
| 70 | 10.66 | 10.65 | 33.519 | 25.684 | 231.3 | 0.184 | 4.32 | 68.7 | 14.7 | 1.28 | 15.0 | 0.04 | 0.10 | 0.15 | 70 | 213 |
| 75 ISL | 10.40 | 10.39 | 33.555 | 25.758 | 224.4 | 0.195 | 4.13 | 65.3 | 16.3 | 1.37 | 16.6 | 0.03 | 0.08 | 0.12 | 75 | |
| 85 | 10.15 | 10.14 | 33.647 | 25.872 | 213.7 | 0.217 | 3.82 | 60.1 | 19.1 | 1.51 | 18.8 | 0.02 | 0.05 | 0.09 | 85 | 212 |
| 100 | 9.87 | 9.86 | 33.765 | 26.012 | 200.7 | 0.248 | 3.35 | 52.4 | 23.1 | 1.69 | 21.6 | 0.01 | 0.03 | 0.08 | 101 | 211 |
| 120 | 9.52 | 9.51 | 33.919 | 26.190 | 184.2 | 0.287 | 2.72 | 42.3 | 28.7 | 1.96 | 25.1 | 0.01 | 0.01 | 0.09 | 121 | 210 |
| 125 ISL | 9.49 | 9.48 | 33.935 | 26.208 | 182.6 | 0.296 | 2.68 | 41.6 | 29.3 | 1.97 | 25.4 | 0.01 | 0.01 | 0.09 | 126 | |
| 140 | 9.38 | 9.36 | 33.958 | 26.244 | 179.5 | 0.323 | 2.58 | 40.0 | 30.3 | 2.01 | 26.0 | 0.01 | 0.01 | 0.08 | 141 | 209 |
| 150 ISL | 9.13 | 9.11 | 33.962 | 26.288 | 175.4 | 0.341 | 2.63 | 40.5 | 31.3 | 2.02 | 26.5 | 0.01 | 0.01 | 0.07 | 151 | |
| 170 | 8.63 | 8.61 | 33.978 | 26.379 | 167.0 | 0.375 | 2.69 | 41.0 | 33.7 | 2.05 | 27.6 | 0.01 | 0.00 | 0.06 | 171 | 208 |
| 199 | 8.55 | 8.53 | 34.075 | 26.468 | 159.1 | 0.422 | 2.13 | 32.4 | 38.4 | 2.25 | 29.4 | 0.01 | 0.00 | 0.05 | 200 | 207 |
| 200 ISL | 8.55 | 8.53 | 34.078 | 26.470 | 158.9 | 0.424 | 2.11 | 32.1 | 38.5 | 2.26 | 29.5 | 0.01 | | | 201 | |
| 229 | 8.46 | 8.44 | 34.143 | 26.535 | 153.3 | 0.469 | 1.58 | 24.0 | 42.5 | 2.44 | 31.1 | 0.01 | | | 230 | 206 |
| 250 ISL | 8.17 | 8.14 | 34.146 | 26.582 | 149.1 | 0.501 | 1.57 | 23.7 | 45.0 | 2.49 | 31.9 | 0.00 | | | 252 | |
| 268 | 7.86 | 7.83 | 34.136 | 26.6 | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|--------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 | 3.2 N | 122 56.7 W | 22/01/01 | 0459 | UTC | 4234 m | 140 | 16 kn | | 1018.5 mb | 13.8 C | 12.3 C | | | | |
| 0 | ISL | 13.80 | 13.80 | 33.098 | 24.759 | 317.7 | 0.000 | 6.01 | 101.9 | 3.7 | 0.34 | 0.1 | 0.00 | 0.46 | 0.13 | 0 |
| 3 | | 13.80 | 13.80 | 33.098 | 24.760 | 317.7 | 0.010 | 6.01 | 101.9 | 3.7 | 0.34 | 0.1 | 0.00 | 0.46 | 0.13 | 3 220 |
| 10 | ISL | 13.80 | 13.80 | 33.099 | 24.760 | 317.9 | 0.032 | 5.99 | 101.6 | 3.8 | 0.34 | 0.1 | 0.00 | 0.45 | 0.13 | 10 |
| 16 | | 13.81 | 13.81 | 33.100 | 24.759 | 318.1 | 0.051 | 5.98 | 101.4 | 3.8 | 0.34 | 0.1 | 0.00 | 0.45 | 0.13 | 16 219 |
| 20 | ISL | 13.81 | 13.81 | 33.100 | 24.760 | 318.2 | 0.064 | 5.99 | 101.6 | 3.8 | 0.34 | 0.1 | 0.00 | 0.45 | 0.13 | 20 |
| 30 | | 13.81 | 13.81 | 33.098 | 24.758 | 318.6 | 0.095 | 6.01 | 101.9 | 3.7 | 0.34 | 0.1 | 0.00 | 0.46 | 0.13 | 30 218 |
| 44 | | 13.82 | 13.81 | 33.111 | 24.767 | 318.2 | 0.140 | 5.97 | 101.3 | 3.7 | 0.34 | 0.1 | 0.01 | 0.46 | 0.16 | 44 217 |
| 50 | ISL | 13.83 | 13.82 | 33.125 | 24.776 | 317.5 | 0.159 | 5.94 | 100.8 | 3.6 | 0.35 | 0.2 | 0.02 | 0.41 | 0.15 | 50 |
| 55 | | 13.83 | 13.82 | 33.136 | 24.784 | 316.9 | 0.175 | 5.91 | 100.3 | 3.6 | 0.35 | 0.2 | 0.03 | 0.36 | 0.14 | 55 216 |
| 65 | | 13.51 | 13.50 | 33.229 | 24.922 | 304.0 | 0.206 | 5.86 | 98.8 | 4.0 | 0.43 | 1.3 | 0.14 | 0.22 | 0.12 | 65 215 |
| 75 | | 12.93 | 12.92 | 33.364 | 25.142 | 283.3 | 0.235 | 5.57 | 92.9 | 4.9 | 0.58 | 4.0 | 0.04 | 0.11 | 0.10 | 75 214 |
| 84 | | 12.27 | 12.26 | 33.338 | 25.250 | 273.1 | 0.260 | 5.45 | 89.6 | 6.3 | 0.70 | 5.9 | 0.02 | 0.09 | 0.10 | 84 213 |
| 94 | | 11.15 | 11.14 | 33.383 | 25.492 | 250.2 | 0.287 | 5.12 | 82.2 | 9.8 | 0.97 | 10.3 | 0.01 | 0.05 | 0.09 | 94 212 |
| 100 | ISL | 10.81 | 10.80 | 33.402 | 25.568 | 243.1 | 0.301 | 4.97 | 79.2 | 10.9 | 1.05 | 11.6 | 0.01 | 0.05 | 0.09 | 100 |
| 110 | | 10.45 | 10.44 | 33.446 | 25.665 | 234.0 | 0.325 | 4.69 | 74.2 | 12.8 | 1.16 | 13.5 | 0.01 | 0.04 | 0.09 | 111 211 |
| 124 | | 9.87 | 9.86 | 33.590 | 25.875 | 214.2 | 0.357 | 4.11 | 64.3 | 17.8 | 1.45 | 18.1 | 0.00 | 0.02 | 0.07 | 125 210 |
| 125 | ISL | 9.85 | 9.84 | 33.599 | 25.886 | 213.2 | 0.359 | 4.07 | 63.6 | 18.1 | 1.47 | 18.4 | 0.00 | 0.02 | 0.07 | 126 |
| 144 | | 9.55 | 9.53 | 33.746 | 26.051 | 197.9 | 0.398 | 3.43 | 53.3 | 23.8 | 1.75 | 22.7 | 0.01 | 0.01 | 0.07 | 145 209 |
| 150 | ISL | 9.49 | 9.47 | 33.785 | 26.091 | 194.2 | 0.410 | 3.27 | 50.8 | 25.0 | 1.81 | 23.6 | 0.01 | 0.01 | 0.07 | 151 |
| 168 | | 9.32 | 9.30 | 33.883 | 26.196 | 184.6 | 0.444 | 2.90 | 44.9 | 28.1 | 1.93 | 25.4 | 0.00 | 0.00 | 0.07 | 169 208 |
| 198 | | 8.84 | 8.82 | 33.990 | 26.356 | 169.8 | 0.497 | 2.56 | 39.2 | 33.1 | 2.08 | 27.6 | 0.00 | 0.00 | 0.05 | 199 207 |
| 200 | ISL | 8.81 | 8.79 | 33.996 | 26.366 | 168.9 | 0.500 | 2.54 | 38.9 | 33.4 | 2.09 | 27.7 | 0.00 | | | 201 |
| 230 | | 8.46 | 8.44 | 34.060 | 26.470 | 159.4 | 0.549 | 2.23 | 33.9 | 37.5 | 2.23 | 29.4 | 0.00 | | | 231 206 |
| 250 | ISL | 8.19 | 8.16 | 34.076 | 26.524 | 154.6 | 0.581 | 2.11 | 31.9 | 40.3 | 2.30 | 30.3 | 0.00 | | | 251 |
| 267 | | 7.97 | 7.94 | 34.082 | 26.562 | 151.2 | 0.607 | 2.02 | 30.4 | 42.6 | 2.35 | 31.0 | 0.00 | | | 269 205 |
| 300 | ISL | 7.61 | 7.58 | 34.093 | 26.623 | 145.8 | 0.656 | 1.83 | 27.3 | 46.7 | 2.45 | 32.4 | 0.00 | | | 302 |
| 317 | | 7.44 | 7.41 | 34.099 | 26.652 | 143.2 | 0.680 | 1.73 | 25.7 | 48.9 | 2.51 | 33.1 | 0.00 | | | 319 204 |
| 378 | | 6.92 | 6.88 | 34.134 | 26.753 | 134.3 | 0.765 | 1.24 | 18.2 | 57.8 | 2.73 | 35.7 | 0.00 | | | 380 203 |
| 400 | ISL | 6.80 | 6.76 | 34.158 | 26.788 | 131.2 | 0.794 | 1.07 | 15.7 | 61.0 | 2.81 | 36.5 | 0.00 | | | 403 |
| 439 | | 6.53 | 6.49 | 34.191 | 26.850 | 125.6 | 0.844 | 0.81 | 11.8 | 67.0 | 2.93 | 37.9 | 0.00 | | | 442 202 |
| 500 | ISL | 5.69 | 5.65 | 34.165 | 26.937 | 117.4 | 0.918 | 0.66 | 9.4 | 78.5 | 3.05 | 40.4 | 0.00 | | | 503 |
| 514 | | 5.50 | 5.46 | 34.160 | 26.956 | 115.6 | 0.935 | 0.62 | 8.8 | 81.2 | 3.08 | 41.0 | 0.00 | | | 518 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 | 43.6 N | 123 38.2 W | 21/01/01 | 2309 | UTC | 4039 m | 140 | 12 kn | 280 | 10 09 | 2 | 1018.1 mb | 13.5 C | 13.0 C | 18m | 8/8 ST |
| 0 | ISL | 13.42 | 13.42 | 33.030 | 24.784 | 315.3 | 0.000 | 6.10 | 102.6 | 5.0 | 0.37 | 0.5 | 0.03 | 0.51 | 0.11 | 0 |
| 2 | | 13.42 | 13.42 | 33.030 | 24.784 | 315.4 | 0.006 | 6.10 | 102.6 | 5.0 | 0.37 | 0.5 | 0.03 | 0.51 | 0.11 | 2 220 |
| 10 | | 13.42 | 13.42 | 33.030 | 24.784 | 315.6 | 0.032 | 6.10 | 102.6 | 4.7 | 0.37 | 0.5 | 0.03 | 0.50 | 0.11 | 10 219 |
| 20 | | 13.40 | 13.40 | 33.030 | 24.789 | 315.4 | 0.063 | 6.08 | 102.2 | 4.6 | 0.37 | 0.5 | 0.03 | 0.52 | 0.12 | 20 218 |
| 30 | | 13.34 | 13.34 | 33.031 | 24.802 | 314.5 | 0.095 | 6.05 | 101.6 | 4.5 | 0.37 | 0.6 | 0.03 | 0.57 | 0.16 | 30 217 |
| 40 | | 13.30 | 13.29 | 33.050 | 24.825 | 312.5 | 0.126 | 6.00 | 100.6 | 4.6 | 0.41 | 1.0 | 0.07 | 0.42 | 0.17 | 40 216 |
| 50 | | 13.12 | 13.11 | 33.101 | 24.900 | 305.6 | 0.157 | 5.96 | 99.6 | 5.0 | 0.46 | 1.8 | 0.12 | 0.38 | 0.18 | 50 215 |
| 60 | | 13.03 | 13.02 | 33.321 | 25.089 | 288.0 | 0.187 | 5.70 | 95.2 | 4.9 | 0.54 | 3.3 | 0.13 | 0.26 | 0.15 | 60 214 |
| 70 | | 12.26 | 12.25 | 33.241 | 25.176 | 279.8 | 0.215 | 5.71 | 93.8 | 5.9 | 0.64 | 4.8 | 0.09 | 0.23 | 0.17 | 70 213 |
| 75 | ISL | 12.23 | 12.22 | 33.284 | 25.215 | 276.2 | 0.229 | 5.56 | 91.3 | 6.2 | 0.68 | 5.5 | 0.06 | 0.19 | 0.15 | 75 |
| 85 | | 12.11 | 12.10 | 33.384 | 25.316 | 266.9 | 0.256 | 5.23 | 85.7 | 7.2 | 0.79 | 7.3 | 0.02 | 0.10 | 0.11 | 85 212 |
| 99 | | 10.63 | 10.62 | 33.331 | 25.544 | 245.3 | 0.292 | 5.08 | 80.6 | 10.4 | 1.02 | 11.1 | 0.01 | 0.08 | 0.10 | 99 211 |
| 100 | ISL | 10.56 | 10.55 | 33.336 | 25.560 | 243.8 | 0.294 | 5.05 | 80.0 | 10.7 | 1.04 | 11.4 | 0.01 | 0.08 | 0.10 | 100 |
| 120 | | 9.65 | 9.64 | 33.510 | 25.849 | 216.5 | 0.340 | 4.39 | 68.3 | 16.5 | 1.38 | 17.0 | 0.01 | 0.03 | 0.06 | 121 210 |
| 125 | ISL | 9.53 | 9.52 | 33.559 | 25.907 | 211.1 | 0.351 | 4.25 | 65.9 | 17.9 | 1.44 | 18.1 | 0.01 | 0.02 | 0.05 | 126 |
| 139 | | 9.31 | 9.29 | 33.688 | 26.044 | 198.3 | 0.380 | 3.92 | 60.6 | 21.3 | 1.59 | 20.6 | 0.00 | 0.01 | 0.04 | 140 209 |
| 150 | ISL | 9.16 | 9.14 | 33.760 | 26.125 | 190.9 | 0.401 | 3.79 | 58.4 | 23.1 | 1.65 | 21.8 | 0.00 | 0.00 | 0.04 | 151 |
| 169 | | 8.93 | 8.91 | 33.860 | 26.240 | 180.3 | 0.436 | 3.55 | 54.4 | 26.3 | 1.75 | 23.6 | 0.00 | 0.00 | 0.03 | 170 208 |
| 200 | | 8.60 | 8.58 | 34.022 | 26.419 | 163.8 | 0.490 | 2.58 | 39.3 | 34.9 | 2.10 | 28.1 | 0.00 | 0.00 | 0.04 | 201 207 |
| 228 | | 8.15 | 8.13 | 34.061 | 26.518 | 154.8 | 0.534 | 2.18 | 32.9 | 40.4 | 2.29 | 30.5 | 0.00 | | | 229 206 |
| 250 | ISL | 7.98 | 7.95 | 34.100 | 26.574 | 149.8 | 0.568 | 1.87 | 28.1 | 43.7 | 2.41 | 31.7 | 0.00 | | | 251 |
| 269 | | 7.89 | 7.86 | 34.130 | 26.611 | 146.5 | 0.596 | 1.63 | 24.5 | 46.2 | 2.49 | 32.4 | 0.00 | | | 271 205 |
| 300 | ISL | 7.66 | 7.63 | 34.156 | 26.665 | 141.8 | 0.641 | 1.38 | 20.6 | 50.1 | 2.60 | 33.6 | 0.00 | | | 302 |
| 318 | | 7.51 | 7.48 | 34.164 | 26.693 | 139.4 | 0.666 | 1.28 | 19.0 | 52.3 | 2.66 | 34.2 | 0.00 | | | 320 204 |
| 379 | | 6.93 | 6.89 | 34.173 | 26.782 | 131.5 | 0.749 | 1.06 | 15.6 | 60.3 | 2.81 | 36.3 | 0.00 | | | 381 203 |
| 400 | ISL | 6.75 | 6.71 | 34.182 | 26.814 | 128.7 | 0. | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 23.2 N | 124 19.8 W | 21/01/01 | 1753 | UTC | 4555 m | 150 | 14 kn | 240 06 07 | 2 | 1019.2 mb | 13.9 | C 12.9 | C | 20m | 8/8 | SC |
| 0 ISL | 13.84 | 13.84 | 33.225 | 24.849 | 309.1 | 0.000 | 5.99 | 101.7 | 4.0 | 0.36 | 0.3 | 0.02 | 0.52 | 0.26 | 0 | |
| 2 A | 13.84 | 13.84 | 33.225 | 24.849 | 309.2 | 0.006 | 5.99 | 101.7 | 4.0 | 0.36 | 0.3 | 0.02 | 0.52 | 0.26 | 2 | 221 |
| 10 ISL | 13.83 | 13.83 | 33.225 | 24.852 | 309.2 | 0.031 | 5.98 | 101.5 | 3.9 | 0.36 | 0.3 | 0.02 | 0.52 | 0.24 | 10 | |
| 12 A | 13.83 | 13.83 | 33.225 | 24.852 | 309.2 | 0.037 | 5.98 | 101.5 | 3.9 | 0.36 | 0.3 | 0.02 | 0.52 | 0.23 | 12 | 220 |
| 19 | 13.83 | 13.83 | 33.226 | 24.853 | 309.3 | 0.059 | 5.98 | 101.5 | 3.9 | 0.36 | 0.3 | 0.02 | 0.50 | 0.15 | 19 | 219 |
| 20 ISL | 13.83 | 13.83 | 33.226 | 24.853 | 309.4 | 0.062 | 5.97 | 101.4 | 3.9 | 0.36 | 0.3 | 0.02 | 0.50 | 0.15 | 20 | |
| 25 A | 13.82 | 13.82 | 33.227 | 24.856 | 309.2 | 0.077 | 5.95 | 101.0 | 3.8 | 0.35 | 0.3 | 0.02 | 0.50 | 0.19 | 25 | 218 |
| 30 ISL | 13.79 | 13.79 | 33.234 | 24.867 | 308.2 | 0.093 | 5.96 | 101.1 | 3.8 | 0.36 | 0.4 | 0.02 | 0.50 | 0.20 | 30 | |
| 33 | 13.75 | 13.75 | 33.241 | 24.881 | 307.0 | 0.102 | 5.97 | 101.2 | 3.9 | 0.37 | 0.5 | 0.03 | 0.50 | 0.21 | 33 | 217 |
| 41 A | 13.55 | 13.54 | 33.273 | 24.947 | 301.0 | 0.126 | 5.93 | 100.1 | 4.0 | 0.40 | 0.8 | 0.05 | 0.41 | 0.12 | 41 | 216 |
| 50 ISL | 13.45 | 13.44 | 33.290 | 24.980 | 298.0 | 0.153 | 5.92 | 99.8 | 4.0 | 0.41 | 1.0 | 0.07 | 0.45 | 0.14 | 50 | |
| 53 A | 13.43 | 13.42 | 33.294 | 24.988 | 297.4 | 0.162 | 5.92 | 99.7 | 4.0 | 0.41 | 1.1 | 0.07 | 0.47 | 0.16 | 53 | 215 |
| 64 | 13.39 | 13.38 | 33.315 | 25.012 | 295.4 | 0.195 | 5.92 | 99.6 | 4.0 | 0.42 | 1.2 | 0.08 | 0.38 | 0.13 | 64 | 214 |
| 73 A | 13.34 | 13.33 | 33.324 | 25.030 | 294.0 | 0.221 | 5.89 | 99.0 | 4.0 | 0.43 | 1.4 | 0.09 | 0.37 | 0.13 | 73 | 213 |
| 75 ISL | 13.29 | 13.28 | 33.326 | 25.041 | 292.9 | 0.227 | 5.87 | 98.6 | 4.1 | 0.45 | 1.7 | 0.09 | 0.35 | 0.13 | 75 | |
| 87 | 12.46 | 12.45 | 33.309 | 25.191 | 278.8 | 0.261 | 5.64 | 93.1 | 5.9 | 0.64 | 4.8 | 0.09 | 0.18 | 0.11 | 87 | 212 |
| 99 | 10.52 | 10.51 | 33.253 | 25.502 | 249.2 | 0.293 | 5.31 | 84.0 | 9.3 | 0.95 | 9.9 | 0.02 | 0.13 | 0.16 | 99 | 211 |
| 100 ISL | 10.42 | 10.41 | 33.261 | 25.525 | 247.0 | 0.296 | 5.28 | 83.4 | 9.6 | 0.97 | 10.3 | 0.02 | 0.12 | 0.16 | 100 | |
| 119 | 9.39 | 9.38 | 33.498 | 25.882 | 213.3 | 0.339 | 4.61 | 71.3 | 16.3 | 1.35 | 16.6 | 0.00 | 0.03 | 0.05 | 120 | 210 |
| 125 ISL | 9.35 | 9.34 | 33.582 | 25.954 | 206.6 | 0.352 | 4.37 | 67.5 | 18.2 | 1.44 | 18.1 | 0.00 | 0.02 | 0.04 | 126 | |
| 140 | 9.26 | 9.24 | 33.735 | 26.089 | 194.1 | 0.382 | 3.83 | 59.1 | 22.3 | 1.62 | 21.2 | 0.00 | 0.01 | 0.03 | 141 | 209 |
| 150 ISL | 9.14 | 9.12 | 33.808 | 26.165 | 187.0 | 0.401 | 3.61 | 55.6 | 24.6 | 1.71 | 22.7 | 0.00 | 0.00 | 0.03 | 151 | |
| 169 | 8.88 | 8.86 | 33.904 | 26.282 | 176.3 | 0.436 | 3.44 | 52.7 | 27.8 | 1.79 | 24.3 | 0.00 | 0.00 | 0.03 | 170 | 208 |
| 199 | 8.49 | 8.47 | 33.992 | 26.412 | 164.4 | 0.487 | 3.73 | 56.7 | 30.2 | 1.72 | 24.0 | 0.00 | 0.00 | 0.02 | 200 | 207 |
| 200 ISL | 8.47 | 8.45 | 33.993 | 26.416 | 164.0 | 0.488 | 3.72 | 56.5 | 30.4 | 1.73 | 24.1 | 0.00 | | | 201 | |
| 229 | 8.01 | 7.99 | 34.000 | 26.491 | 157.3 | 0.535 | 3.21 | 48.3 | 36.3 | 1.96 | 27.2 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.70 | 7.68 | 34.012 | 26.546 | 152.3 | 0.567 | 2.79 | 41.6 | 40.7 | 2.13 | 29.3 | 0.00 | | | 251 | |
| 268 | 7.45 | 7.42 | 34.021 | 26.589 | 148.4 | 0.594 | 2.47 | 36.7 | 44.4 | 2.26 | 31.0 | 0.00 | | | 270 | 205 |
| 300 ISL | 6.98 | 6.95 | 34.024 | 26.657 | 142.1 | 0.641 | 2.16 | 31.7 | 50.4 | 2.42 | 33.1 | 0.00 | | | 302 | |
| 319 | 6.74 | 6.71 | 34.027 | 26.692 | 139.0 | 0.668 | 2.02 | 29.5 | 53.6 | 2.50 | 34.1 | 0.00 | | | 321 | 204 |
| 378 | 6.44 | 6.41 | 34.083 | 26.776 | 131.6 | 0.747 | 1.36 | 19.7 | 61.7 | 2.75 | 36.9 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.25 | 6.21 | 34.103 | 26.817 | 128.0 | 0.776 | 1.14 | 16.5 | 66.1 | 2.84 | 38.0 | 0.00 | | | 403 | |
| 437 | 5.90 | 5.86 | 34.133 | 26.885 | 121.7 | 0.822 | 0.84 | 12.0 | 73.7 | 2.97 | 39.7 | 0.00 | | | 440 | 202 |
| 500 ISL | 5.43 | 5.39 | 34.173 | 26.974 | 113.6 | 0.896 | 0.59 | 8.4 | 85.5 | 3.10 | 41.4 | 0.00 | | | 503 | |
| 514 | 5.33 | 5.29 | 34.182 | 26.993 | 111.8 | 0.912 | 0.53 | 7.5 | 85.7 | 3.13 | 41.8 | 0.00 | | | 518 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 27.0 N | 120 31.0 W | 20/01/01 | 0504 | UTC | 69 m | 100 | 05 kn | | | | | | | | | |
| 0 ISL | 13.59 | 13.59 | 33.503 | 25.115 | 283.8 | 0.000 | 5.87 | 99.4 | 5.1 | 0.42 | 1.4 | 0.15 | 2.12 | 0.65 | 0 | |
| 3 | 13.59 | 13.59 | 33.503 | 25.115 | 283.9 | 0.009 | 5.87 | 99.4 | 5.1 | 0.42 | 1.4 | 0.15 | 2.12 | 0.65 | 3 | 208 |
| 6 | 13.58 | 13.58 | 33.502 | 25.117 | 283.8 | 0.017 | 5.84 | 98.8 | 5.1 | 0.42 | 1.5 | 0.16 | 2.08 | 0.67 | 6 | 207 |
| 10 | 13.58 | 13.58 | 33.504 | 25.118 | 283.8 | 0.028 | 5.84 | 98.8 | 5.0 | 0.43 | 1.5 | 0.16 | 2.25 | 0.65 | 10 | 206 |
| 20 | 13.44 | 13.44 | 33.515 | 25.156 | 280.5 | 0.057 | 5.73 | 96.7 | 6.0 | 0.50 | 2.3 | 0.24 | 1.63 | 0.61 | 20 | 205 |
| 30 | 13.41 | 13.41 | 33.520 | 25.166 | 279.8 | 0.085 | 5.74 | 96.8 | 6.1 | 0.51 | 2.4 | 0.25 | 1.53 | 0.64 | 30 | 204 |
| 40 | 13.37 | 13.36 | 33.522 | 25.176 | 279.1 | 0.113 | 5.81 | 97.9 | 6.3 | 0.55 | 2.6 | 0.25 | 1.53 | 0.67 | 40 | 203 |
| 50 | 13.10 | 13.09 | 33.537 | 25.242 | 273.1 | 0.140 | 5.64 | 94.5 | 8.0 | 0.72 | 4.4 | 0.27 | 0.82 | 0.74 | 50 | 202 |
| 61 | 11.66 | 11.65 | 33.619 | 25.582 | 240.9 | 0.168 | 4.15 | 67.5 | 14.8 | 1.20 | 13.2 | 0.11 | 0.14 | 0.22 | 61 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 19.1 N | 120 48.0 W | 20/01/01 | 0754 | UTC | 749 m | 100 | 06 kn | | | 1022.8 mb | 13.5 C | 11.3 C | | | | |
| 0 ISL | 13.14 | 13.14 | 33.518 | 25.218 | 274.1 | 0.000 | 5.70 | 95.6 | 6.2 | 0.55 | 3.5 | 0.26 | 1.36 | 0.48 | 0 | |
| 2 | 13.14 | 13.14 | 33.518 | 25.218 | 274.1 | 0.005 | 5.70 | 95.6 | 6.2 | 0.55 | 3.5 | 0.26 | 1.36 | 0.48 | 2 | 224 |
| 10 ISL | 13.11 | 13.11 | 33.517 | 25.223 | 273.8 | 0.027 | 5.68 | 95.2 | 6.2 | 0.56 | 3.5 | 0.26 | 1.56 | 0.50 | 10 | |
| 11 | 13.11 | 13.11 | 33.517 | 25.223 | 273.8 | 0.030 | 5.68 | 95.2 | 6.2 | 0.56 | 3.5 | 0.26 | 1.59 | 0.50 | 11 | 219 |
| 20 ISL | 12.98 | 12.98 | 33.521 | 25.252 | 271.3 | 0.055 | 5.58 | 93.3 | 6.6 | 0.60 | 4.1 | 0.30 | 1.61 | 0.54 | 20 | |
| 21 | 12.96 | 12.96 | 33.522 | 25.257 | 270.9 | 0.057 | 5.57 | 93.1 | 6.7 | 0.61 | 4.2 | 0.30 | 1.61 | 0.54 | 21 | 218 |
| 30 | 12.81 | 12.81 | 33.529 | 25.292 | 267.8 | 0.082 | 5.55 | 92.4 | 7.0 | 0.63 | 4.5 | 0.29 | 1.21 | 0.45 | 30 | 217 |
| 41 | 12.59 | 12.58 | 33.541 | 25.345 | 263.1 | 0.111 | 5.17 | 85.7 | 8.5 | 0.76 | 6.6 | 0.24 | 0.80 | 0.35 | 41 | 216 |
| 50 ISL | 12.47 | 12.46 | 33.545 | 25.371 | 260.8 | 0.134 | 4.95 | 81.9 | 9.3 | 0.85 | 8.0 | 0.21 | 0.42 | 0.26 | 50 | |
| 51 | 12.44 | 12.43 | 33.546 | 25.378 | 260.2 | 0.137 | 4.92 | 81.3 | 9.5 | 0.86 | 8.2 | 0.21 | 0.38 | 0.25 | 51 | 215 |
| 61 | 11.76 | 11.75 | 33.593 | 25.543 | 244.6 | 0.162 | 4.14 | 67.5 | 13.4 | 1.18 | 13.0 | 0.03 | 0.14 | 0.16 | 61 | 214 |
| 69 | 11.47 | 11.46 | 33.621 | 25.619 | 237.6 | 0.182 | 3.99 | 64.6 | 14.9 | 1.27 | 14.4 | 0.02 | 0.11 | 0.14 | 69 | 213 |
| 75 ISL | 11.34 | 11.33 | 33.635 | 25.654 | 234.4 | 0.196 | 3.91 | 63.2 | 15.6 | 1.31 | 15.0 | 0.02 | 0.10 | 0.13 | 75 | |
| 86 | 11.15 | 11.14 | 33.661 | 25.708 | 229.5 | 0.221 | 3.76 | 60.5 | 16.8 | 1.38 | 16.0 | 0.02 | 0.09 | 0.12 | 86 | 212 |
| 100 ISL | 10.83 | 10.82 | 33.715 | 25.808 | 220.3 | 0.253 | 3.47 | 55.5 | 19.3 | 1.53 | 18.1 | 0.01 | 0.05 | 0.10 | 101 | |
| 101 | 10.80 | 10.79 | 33.720 | 25.817 | 219.4 | 0.255 | 3.45 | 55.1 | 19.5 | 1.54 | 18.3 | 0.01 | 0.05 | 0.10 | 102 | 211 |
| 122 | 9.87 | 9.86 | 33.887 | 26.107 | 192.1 | 0.298 | 2.78 | 43.5 | 26.7 | 1.88 | 23.7 | 0.01 | 0.02 | 0.09 | 123 | 210 |
| 125 ISL | 9.76 | 9.75 | 33.911 | 26.145 | 188.7 | 0.304 | 2.69 | 42.0 | 27.9 | 1.93 | 24.3 | 0.01 | 0.02 | 0.09 | 126 | |
| 138 | 9.35 | 9.33 | 34.002 | 26.283 | 175.7 | 0.327 | 2.36 | 36.6 | 32.3 | 2.09 | 26.6 | 0.01 | 0.01 | 0.07 | 139 | 209 |
| 150 ISL | 9.18 | 9.16 | 34.041 | 26.341 | 170.4 | 0.348 | 2.22 | 34.3 | 34.0 | 2.16 | 27.5 | 0.01 | 0.01 | 0.08 | 151 | |
| 168 | 9.07 | 9.05 | 34.066 | 26.379 | 167.1 | 0.379 | 2.12 | 32.7 | 35.1 | 2.20 | 28.1 | 0.01 | 0.01 | 0.09 | 169 | 208 |
| 199 | 8.79 | 8.77 | 34.117 | 26.464 | 159.7 | 0.429 | 1.87 | 28.6 | 38.5 | 2.32 | 29.4 | 0.01 | 0.01 | 0.06 | 200 | 207 |
| 200 ISL | 8.79 | 8.77 | 34.118 | 26.464 | 159.6 | 0.431 | 1.87 | 28.6 | 38.6 | 2.32 | 29.4 | 0.01 | | | 201 | |
| 230 | 8.65 | 8.63 | 34.138 | 26.502 | 156.5 | 0.478 | 1.75 | 26.7 | 40.4 | 2.38 | 30.2 | 0.01 | | | 231 | 206 |
| 250 ISL | 8.46 | 8.43 | 34.153 | 26.544 | 152.9 | 0.509 | 1.63 | 24.8 | 42.6 | 2.44 | 31.0 | 0.00 | | | 252 | |
| 268 | 8.27 | 8.24 | 34.166 | 26.583 | 149.4 | 0.536 | 1.52 | 23.0 | 44.9 | 2.50 | 31.7 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.94 | 7.91 | 34.176 | 26.640 | 144.4 | 0.583 | 1.37 | 20.6 | 48.5 | 2.58 | 32.7 | 0.00 | | | 302 | |
| 319 | 7.76 | 7.73 | 34.180 | 26.670 | 141.8 | 0.611 | 1.29 | 19.3 | 50.6 | 2.63 | 33.3 | 0.00 | | | 321 | 204 |
| 379 | 7.27 | 7.23 | 34.199 | 26.756 | 134.3 | 0.693 | 1.00 | 14.8 | 57.7 | 2.78 | 35.2 | 0.00 | | | 381 | 203 |
| 400 ISL | 7.09 | 7.05 | 34.202 | 26.783 | 131.9 | 0.721 | 0.92 | 13.6 | 60.4 | 2.83 | 35.9 | 0.00 | | | 403 | |
| 436 | 6.76 | 6.72 | 34.207 | 26.832 | 127.5 | 0.768 | 0.79 | 11.5 | 65.2 | 2.91 | 37.2 | 0.00 | | | 439 | 202 |
| 500 ISL | 6.17 | 6.13 | 34.228 | 26.927 | 118.9 | 0.847 | 0.56 | 8.1 | 74.4 | 3.05 | 39.3 | 0.00 | | | 503 | |
| 514 | 6.04 | 5.99 | 34.233 | 26.947 | 117.0 | 0.864 | 0.51 | 7.3 | 76.4 | 3.08 | 39.8 | 0.00 | | | 518 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 9.2 N | 121 8.9 W | 20/01/01 | 1139 | UTC | 2166 m | 330 | 12 kn | | | 1021.9 mb | 12.0 C | 10.8 C | | | | |
| 0 ISL | 13.01 | 13.01 | 33.444 | 25.186 | 277.1 | 0.000 | 5.94 | 99.3 | 4.4 | 0.41 | 1.5 | 0.07 | 0.63 | 0.24 | 0 | |
| 2 | 13.01 | 13.01 | 33.444 | 25.186 | 277.1 | 0.006 | 5.94 | 99.3 | 4.4 | 0.41 | 1.5 | 0.07 | 0.63 | 0.24 | 2 | 220 |
| 10 ISL | 13.02 | 13.02 | 33.444 | 25.184 | 277.5 | 0.028 | 5.95 | 99.5 | 4.7 | 0.41 | 1.5 | 0.07 | 0.63 | 0.25 | 10 | 219 |
| 20 | 13.02 | 13.02 | 33.445 | 25.186 | 277.7 | 0.055 | 5.93 | 99.1 | 4.5 | 0.41 | 1.5 | 0.08 | 0.63 | 0.24 | 20 | 218 |
| 30 | 13.03 | 13.03 | 33.446 | 25.185 | 278.0 | 0.083 | 5.93 | 99.2 | 4.4 | 0.42 | 1.5 | 0.08 | 0.63 | 0.23 | 30 | 217 |
| 39 | 13.03 | 13.02 | 33.450 | 25.188 | 277.9 | 0.108 | 5.91 | 98.8 | 4.4 | 0.42 | 1.7 | 0.08 | 0.62 | 0.25 | 39 | 216 |
| 49 | 12.74 | 12.73 | 33.433 | 25.232 | 274.0 | 0.136 | 5.75 | 95.6 | 5.1 | 0.51 | 3.0 | 0.10 | 0.50 | 0.25 | 49 | 215 |
| 50 ISL | 12.70 | 12.69 | 33.428 | 25.236 | 273.6 | 0.139 | 5.75 | 95.5 | 5.2 | 0.51 | 3.1 | 0.10 | 0.50 | 0.25 | 50 | |
| 59 | 12.12 | 12.11 | 33.394 | 25.321 | 265.7 | 0.163 | 5.59 | 91.7 | 6.2 | 0.63 | 4.9 | 0.09 | 0.46 | 0.26 | 59 | 214 |
| 71 | 10.27 | 10.26 | 33.449 | 25.597 | 230.0 | 0.193 | 4.64 | 73.1 | 13.6 | 1.21 | 14.2 | 0.01 | 0.12 | 0.14 | 71 | 213 |
| 75 ISL | 10.24 | 10.23 | 33.508 | 25.748 | 225.3 | 0.202 | 4.42 | 69.6 | 15.1 | 1.30 | 15.7 | 0.01 | 0.10 | 0.12 | 75 | |
| 85 | 10.16 | 10.15 | 33.593 | 25.828 | 217.9 | 0.224 | 3.97 | 62.5 | 18.1 | 1.46 | 18.1 | 0.00 | 0.05 | 0.09 | 85 | 212 |
| 100 | 9.74 | 9.74 | 33.760 | 26.028 | 199.2 | 0.255 | 3.27 | 51.1 | 24.0 | 1.75 | 22.8 | 0.00 | 0.02 | 0.07 | 101 | 211 |
| 119 | 9.37 | 9.36 | 33.861 | 26.169 | 186.1 | 0.292 | 2.86 | 44.3 | 28.3 | 1.92 | 25.5 | 0.00 | 0.01 | 0.06 | 120 | 210 |
| 125 ISL | 9.27 | 9.26 | 33.884 | 26.204 | 182.9 | 0.303 | 2.79 | 43.1 | 29.3 | 1.96 | 26.1 | 0.00 | 0.01 | 0.06 | 126 | |
| 140 | 9.02 | 9.00 | 33.931 | 26.281 | 175.9 | 0.330 | 2.66 | 40.9 | 31.5 | 2.03 | 27.2 | 0.00 | 0.00 | 0.05 | 141 | 209 |
| 150 ISL | 8.83 | 8.81 | 33.963 | 26.336 | 170.8 | 0.347 | 2.55 | 39.0 | 33.2 | 2.08 | 28.0 | 0.00 | 0.00 | 0.05 | 151 | |
| 169 | 8.50 | 8.48 | 34.012 | 26.426 | 162.5 | 0.379 | 2.36 | 35.9 | 36.4 | 2.17 | 29.2 | 0.00 | 0.00 | 0.05 | 170 | 208 |
| 199 | 8.13 | 8.11 | 34.045 | 26.508 | 155.2 | 0.426 | 2.24 | 33.8 | 40.3 | 2.26 | 30.2 | 0.00 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 8.11 | 8.09 | 34.046 | 26.512 | 154.8 | 0.428 | 2.23 | 33.6 | 40.5 | 2.26 | 30.3 | 0.00 | | | 201 | |
| 227 | 7.63 | 7.61 | 34.065 | 26.597 | 147.0 | 0.469 | 1.98 | 29.5 | 45.7 | 2.40 | 32.1 | 0.00 | | | 228 | 206 |
| 250 ISL | 7.47 | 7.45 | 34.091 | 26.641 | 143.2 | 0.502 | 1.79 | 26.6 | 48.7 | 2.49 | 32.9 | 0.00 | | | 252 | |
| 269 | 7.39 | 7.36 | 34.114 | 26.670 | 140.6 | 0.529 | 1.63 | 24.2 | 51.0 | 2.55 | 33.5 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.16 | 7.13 | 34.145 | 26.727 | 135.6 | 0.572 | 1.32 | 19.5 | 55.7 | 2.68 | 34.9 | 0.00 | | | 302 | |
| 317 | 7.03 | 7.00 | 34.159 | 26.756 | 133.0 | 0.595 | 1.16 | 17.1 | 58.3 | 2.75 | 35.6 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|-----------|-------|-----------|-----------|----------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 49.0 N | 121 50.6 W | 20/01/01 | 1747 | UTC | 3625 m | 00 kn | 310 05 05 | 0 | 1022.9 mb | 12.2 | C 11.9 C | 14m | 0/8 | | | |
| 0 ISL | 12.43 | 12.43 | 33.531 | 25.367 | 259.9 | 0.000 | 6.08 | 100.5 | 5.6 | 0.50 | 3.1 | 0.13 | 1.34 | 0.40 | 0 | |
| 2 A | 12.43 | 12.43 | 33.531 | 25.367 | 259.9 | 0.005 | 6.08 | 100.5 | 5.6 | 0.50 | 3.1 | 0.13 | 1.34 | 0.40 | 2 | 221 |
| 8 A | 12.37 | 12.37 | 33.540 | 25.386 | 258.3 | 0.021 | 6.06 | 100.0 | 5.7 | 0.53 | 3.4 | 0.13 | 1.65 | 0.48 | 8 | 220 |
| 10 ISL | 12.34 | 12.34 | 33.544 | 25.395 | 257.5 | 0.026 | 6.04 | 99.6 | 5.8 | 0.54 | 3.6 | 0.13 | 1.60 | 0.49 | 10 | |
| 18 A | 12.24 | 12.24 | 33.561 | 25.427 | 254.6 | 0.046 | 5.94 | 97.8 | 6.2 | 0.58 | 4.3 | 0.14 | 1.42 | 0.52 | 18 | 219 |
| 20 ISL | 12.22 | 12.22 | 33.562 | 25.432 | 254.2 | 0.051 | 5.93 | 97.6 | 6.2 | 0.59 | 4.4 | 0.14 | 1.37 | 0.51 | 20 | |
| 29 A | 12.15 | 12.15 | 33.567 | 25.449 | 252.8 | 0.074 | 5.89 | 96.8 | 6.4 | 0.61 | 4.8 | 0.15 | 1.00 | 0.46 | 29 | 218 |
| 30 ISL | 12.06 | 12.06 | 33.565 | 25.465 | 251.3 | 0.077 | 5.75 | 94.3 | 7.0 | 0.66 | 5.6 | 0.15 | 0.90 | 0.43 | 30 | |
| 37 A | 11.27 | 11.27 | 33.562 | 25.609 | 237.8 | 0.094 | 4.69 | 75.6 | 12.3 | 1.08 | 12.1 | 0.13 | 0.28 | 0.24 | 37 | 217 |
| 44 | 10.55 | 10.54 | 33.591 | 25.759 | 223.6 | 0.110 | 4.07 | 64.6 | 16.6 | 1.37 | 16.8 | 0.04 | 0.13 | 0.18 | 44 | 216 |
| 50 ISL | 10.47 | 10.46 | 33.675 | 25.839 | 216.2 | 0.123 | 3.66 | 58.0 | 19.1 | 1.52 | 18.9 | 0.03 | 0.08 | 0.17 | 50 | |
| 52 A | 10.44 | 10.43 | 33.697 | 25.861 | 214.1 | 0.128 | 3.54 | 56.1 | 19.8 | 1.56 | 19.4 | 0.03 | 0.07 | 0.17 | 52 | 215 |
| 60 | 10.29 | 10.28 | 33.785 | 25.956 | 205.3 | 0.144 | 3.12 | 49.3 | 22.9 | 1.73 | 21.6 | 0.03 | 0.05 | 0.16 | 60 | 214 |
| 70 | 9.96 | 9.95 | 33.839 | 26.054 | 196.1 | 0.164 | 3.01 | 47.2 | 25.1 | 1.81 | 23.1 | 0.02 | 0.02 | 0.11 | 70 | 213 |
| 75 ISL | 9.90 | 9.89 | 33.852 | 26.074 | 194.3 | 0.174 | 2.96 | 46.4 | 25.6 | 1.83 | 23.4 | 0.02 | 0.02 | 0.12 | 75 | |
| 84 | 9.84 | 9.83 | 33.874 | 26.102 | 191.9 | 0.192 | 2.86 | 44.8 | 26.4 | 1.87 | 23.9 | 0.02 | 0.02 | 0.15 | 84 | 212 |
| 99 | 9.53 | 9.52 | 33.952 | 26.214 | 181.4 | 0.220 | 2.56 | 39.8 | 29.7 | 2.01 | 25.9 | 0.01 | 0.01 | 0.10 | 100 | 211 |
| 100 ISL | 9.52 | 9.51 | 33.956 | 26.219 | 181.0 | 0.221 | 2.54 | 39.5 | 29.9 | 2.02 | 26.0 | 0.01 | 0.01 | 0.10 | 101 | |
| 119 | 9.39 | 9.38 | 34.012 | 26.284 | 175.2 | 0.255 | 2.33 | 36.1 | 32.1 | 2.10 | 26.9 | 0.01 | 0.01 | 0.10 | 120 | 210 |
| 125 ISL | 9.35 | 9.34 | 34.018 | 26.296 | 174.2 | 0.266 | 2.33 | 36.1 | 32.4 | 2.11 | 27.0 | 0.01 | 0.01 | 0.10 | 126 | |
| 139 | 9.24 | 9.22 | 34.027 | 26.321 | 172.1 | 0.290 | 2.32 | 35.9 | 32.9 | 2.12 | 27.3 | 0.01 | 0.01 | 0.10 | 140 | 209 |
| 150 ISL | 9.14 | 9.12 | 34.042 | 26.349 | 169.7 | 0.309 | 2.29 | 35.3 | 33.6 | 2.14 | 27.6 | 0.01 | 0.01 | 0.09 | 151 | |
| 169 | 8.93 | 8.91 | 34.070 | 26.404 | 164.7 | 0.340 | 2.21 | 33.9 | 35.4 | 2.19 | 28.4 | 0.01 | 0.00 | 0.08 | 170 | 208 |
| 199 | 8.50 | 8.48 | 34.101 | 26.496 | 156.5 | 0.389 | 2.03 | 30.9 | 39.6 | 2.30 | 29.9 | 0.00 | 0.00 | 0.07 | 200 | 207 |
| 200 ISL | 8.47 | 8.45 | 34.100 | 26.500 | 156.1 | 0.390 | 2.03 | 30.9 | 39.8 | 2.30 | 30.0 | 0.00 | | | 201 | |
| 229 | 7.74 | 7.72 | 34.064 | 26.580 | 148.6 | 0.434 | 2.10 | 31.4 | 44.3 | 2.36 | 31.7 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.44 | 7.42 | 34.070 | 26.628 | 144.3 | 0.465 | 1.97 | 29.2 | 47.5 | 2.44 | 32.8 | 0.00 | | | 252 | |
| 270 | 7.27 | 7.24 | 34.090 | 26.668 | 140.8 | 0.494 | 1.76 | 26.0 | 50.7 | 2.53 | 33.7 | 0.00 | | | 272 | 205 |
| 300 ISL | 7.15 | 7.12 | 34.141 | 26.726 | 135.8 | 0.535 | 1.35 | 19.9 | 55.7 | 2.70 | 35.1 | 0.00 | | | 302 | |
| 318 | 7.08 | 7.05 | 34.171 | 26.759 | 132.9 | 0.559 | 1.11 | 16.3 | 58.8 | 2.79 | 35.9 | 0.00 | | | 320 | 204 |
| 378 | 6.40 | 6.37 | 34.189 | 26.865 | 123.2 | 0.636 | 0.78 | 11.3 | 68.7 | 2.96 | 38.3 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.24 | 6.20 | 34.198 | 26.893 | 120.8 | 0.663 | 0.69 | 10.0 | 71.4 | 3.00 | 38.9 | 0.00 | | | 403 | |
| 439 | 6.02 | 5.98 | 34.215 | 26.935 | 117.2 | 0.709 | 0.57 | 8.2 | 75.7 | 3.07 | 39.9 | 0.00 | | | 442 | 202 |
| 500 ISL | 5.66 | 5.62 | 34.250 | 27.008 | 110.7 | 0.779 | 0.40 | 5.7 | 83.4 | 3.17 | 41.2 | 0.00 | | | 504 | |
| 516 | 5.56 | 5.52 | 34.259 | 27.027 | 109.0 | 0.796 | 0.36 | 5.1 | 85.4 | 3.19 | 41.6 | 0.00 | | | 520 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-----------|-----------|-------|-----------|-----------|----------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 29.1 N | 122 32.1 W | 20/01/01 | 2356 | UTC | 3993 m | 270 06 kn | 300 06 08 | 1 | 1021.5 mb | 12.5 | C 11.2 C | 16m | 6/8 | AC | | |
| 0 ISL | 13.09 | 13.09 | 33.039 | 24.857 | 308.4 | 0.000 | 6.07 | 101.4 | 5.0 | 0.44 | 1.5 | 0.07 | 0.43 | 0.13 | 0 | |
| 2 | 13.09 | 13.09 | 33.039 | 24.857 | 308.5 | 0.006 | 6.07 | 101.4 | 5.0 | 0.44 | 1.5 | 0.07 | 0.43 | 0.13 | 2 | 220 |
| 10 | 12.73 | 12.73 | 33.029 | 24.920 | 302.6 | 0.031 | 6.10 | 101.1 | 5.0 | 0.45 | 1.6 | 0.07 | 0.44 | 0.15 | 10 | 219 |
| 19 | 12.67 | 12.67 | 33.031 | 24.933 | 301.6 | 0.058 | 6.10 | 101.0 | 5.0 | 0.45 | 1.6 | 0.07 | 0.47 | 0.17 | 19 | 218 |
| 20 ISL | 12.67 | 12.67 | 33.031 | 24.933 | 301.6 | 0.061 | 6.10 | 101.0 | 5.0 | 0.45 | 1.6 | 0.07 | 0.47 | 0.17 | 20 | |
| 30 | 12.64 | 12.64 | 33.033 | 24.941 | 301.2 | 0.091 | 6.10 | 100.9 | 4.9 | 0.46 | 1.7 | 0.07 | 0.49 | 0.18 | 30 | 217 |
| 41 | 12.60 | 12.59 | 33.064 | 24.973 | 298.4 | 0.124 | 6.07 | 100.4 | 5.1 | 0.47 | 2.0 | 0.09 | 0.52 | 0.20 | 41 | 216 |
| 50 | 12.39 | 12.38 | 33.098 | 25.040 | 292.2 | 0.151 | 5.94 | 97.8 | 5.4 | 0.54 | 3.0 | 0.09 | 0.32 | 0.19 | 50 | 215 |
| 60 | 11.12 | 11.11 | 33.023 | 25.217 | 275.5 | 0.179 | 5.88 | 94.2 | 7.2 | 0.70 | 5.4 | 0.07 | 0.24 | 0.16 | 60 | 214 |
| 70 | 9.85 | 9.84 | 32.972 | 25.395 | 258.6 | 0.206 | 5.71 | 88.9 | 9.7 | 0.91 | 8.5 | 0.02 | 0.18 | 0.14 | 70 | 213 |
| 75 ISL | 9.76 | 9.75 | 33.051 | 25.472 | 251.4 | 0.218 | 5.61 | 87.2 | 10.5 | 0.97 | 9.7 | 0.02 | 0.14 | 0.12 | 75 | |
| 86 | 9.55 | 9.54 | 33.176 | 25.604 | 239.1 | 0.245 | 5.39 | 83.5 | 11.7 | 1.06 | 11.6 | 0.01 | 0.08 | 0.08 | 86 | 212 |
| 99 | 9.49 | 9.48 | 33.257 | 25.677 | 232.4 | 0.276 | 5.24 | 81.1 | 12.3 | 1.11 | 12.6 | 0.01 | 0.06 | 0.08 | 99 | 211 |
| 100 ISL | 9.47 | 9.46 | 33.268 | 25.689 | 231.2 | 0.278 | 5.21 | 80.6 | 12.6 | 1.13 | 12.9 | 0.01 | 0.06 | 0.08 | 100 | |
| 120 | 9.12 | 9.11 | 33.534 | 25.954 | 206.5 | 0.322 | 4.37 | 67.2 | 19.5 | 1.48 | 18.7 | 0.00 | 0.02 | 0.05 | 121 | 210 |
| 125 ISL | 9.12 | 9.11 | 33.601 | 26.006 | 201.6 | 0.332 | 4.16 | 64.0 | 20.9 | 1.55 | 19.9 | 0.00 | 0.01 | 0.04 | 126 | |
| 141 | 9.14 | 9.12 | 33.790 | 26.151 | 188.2 | 0.363 | 3.60 | 55.5 | 24.9 | 1.72 | 22.8 | 0.00 | 0.00 | 0.03 | 142 | 209 |
| 150 ISL | 9.01 | 8.99 | 33.862 | 26.228 | 181.0 | 0.380 | 3.52 | 54.1 | 26.7 | 1.75 | 23.6 | 0.00 | 0.00 | 0.03 | 151 | |
| 168 | 8.68 | 8.66 | 33.964 | 26.360 | 168.8 | 0.412 | 3.37 | 51.4 | 30.3 | 1.82 | 25.0 | 0.00 | 0.00 | 0.03 | 169 | 208 |
| 199 | 8.39 | 8.37 | 34.055 | 26.476 | 158.2 | 0.462 | 2.23 | 33.8 | 38.7 | 2.24 | 29.9 | 0.00 | 0.00 | 0.03 | 200 | 207 |
| 200 ISL | 8.38 | 8.36 | 34.056 | 26.479 | 158.0 | 0.464 | 2.23 | 33.8 | 38.9 | 2.25 | 30.0 | 0.00 | | | 201 | |
| 227 | 7.99 | 7.97 | 34.074 | 26.552 | 151.4 | 0.506 | 2.11 | 31.7 | 42.6 | 2.32 | 30.8 | 0.00 | | | 228 | 206 |
| 250 ISL | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 | 9.2 N | 123 13.6 W | 21/01/01 | 0516 | UTC | 4220 m | 150 | 05 kn | | 1020.9 mb | 13.8 | C 11.0 | C | | | |
| 0 | ISL | 13.62 | 13.62 | 33.055 | 24.763 | 317.3 | 0.000 | 6.02 | 101.7 | 4.5 | 0.39 | 0.5 | 0.03 | 0.50 | 0.12 | 0 |
| 3 | | 13.62 | 13.62 | 33.055 | 24.763 | 317.4 | 0.010 | 6.02 | 101.7 | 4.5 | 0.39 | 0.5 | 0.03 | 0.50 | 0.12 | 3 220 |
| 10 | ISL | 13.58 | 13.58 | 33.052 | 24.769 | 317.0 | 0.032 | 6.03 | 101.8 | 4.4 | 0.39 | 0.5 | 0.03 | 0.51 | 0.12 | 10 |
| 15 | | 13.55 | 13.55 | 33.049 | 24.773 | 316.8 | 0.048 | 6.03 | 101.7 | 4.3 | 0.39 | 0.5 | 0.03 | 0.51 | 0.12 | 15 219 |
| 20 | ISL | 13.53 | 13.53 | 33.048 | 24.776 | 316.6 | 0.063 | 6.03 | 101.6 | 4.4 | 0.39 | 0.5 | 0.03 | 0.54 | 0.13 | 20 |
| 30 | | 13.50 | 13.50 | 33.048 | 24.783 | 316.3 | 0.095 | 6.02 | 101.4 | 4.5 | 0.38 | 0.5 | 0.04 | 0.60 | 0.16 | 30 218 |
| 45 | | 13.47 | 13.46 | 33.044 | 24.786 | 316.4 | 0.143 | 6.04 | 101.7 | 4.4 | 0.38 | 0.6 | 0.04 | 0.58 | 0.17 | 45 217 |
| 50 | ISL | 13.42 | 13.41 | 33.039 | 24.792 | 315.9 | 0.158 | 6.03 | 101.4 | 4.4 | 0.39 | 0.7 | 0.05 | 0.50 | 0.15 | 50 |
| 55 | | 13.37 | 13.36 | 33.042 | 24.805 | 314.8 | 0.174 | 6.02 | 101.1 | 4.3 | 0.40 | 0.7 | 0.05 | 0.41 | 0.14 | 55 216 |
| 66 | | 13.82 | 13.81 | 33.249 | 24.874 | 308.6 | 0.208 | 5.87 | 99.6 | 4.1 | 0.39 | 0.6 | 0.10 | 0.36 | 0.17 | 66 215 |
| 74 | | 13.97 | 13.96 | 33.438 | 24.989 | 297.9 | 0.233 | 5.77 | 98.4 | 3.7 | 0.40 | 0.8 | 0.21 | 0.26 | 0.12 | 74 214 |
| 75 | ISL | 13.90 | 13.89 | 33.431 | 24.998 | 297.1 | 0.236 | 5.77 | 98.2 | 3.8 | 0.41 | 1.0 | 0.20 | 0.25 | 0.12 | 75 |
| 86 | | 12.67 | 12.66 | 33.285 | 25.132 | 284.5 | 0.268 | 5.68 | 94.2 | 5.7 | 0.59 | 3.9 | 0.08 | 0.19 | 0.13 | 86 213 |
| 95 | | 11.72 | 11.71 | 33.299 | 25.323 | 266.4 | 0.292 | 5.41 | 87.9 | 7.7 | 0.79 | 7.1 | 0.02 | 0.10 | 0.11 | 95 212 |
| 100 | ISL | 11.07 | 11.06 | 33.296 | 25.439 | 255.3 | 0.305 | 5.33 | 85.4 | 9.0 | 0.89 | 8.8 | 0.02 | 0.09 | 0.10 | 100 |
| 111 | | 9.86 | 9.85 | 33.305 | 25.654 | 234.9 | 0.332 | 5.21 | 81.3 | 11.8 | 1.08 | 12.0 | 0.01 | 0.08 | 0.09 | 112 211 |
| 125 | | 9.47 | 9.46 | 33.364 | 25.765 | 224.6 | 0.365 | 5.03 | 77.8 | 14.1 | 1.19 | 14.0 | 0.01 | 0.04 | 0.06 | 126 210 |
| 145 | | 9.17 | 9.15 | 33.686 | 26.065 | 196.4 | 0.407 | 3.87 | 59.6 | 23.5 | 1.65 | 21.6 | 0.00 | 0.01 | 0.04 | 146 209 |
| 150 | ISL | 9.14 | 9.12 | 33.734 | 26.108 | 192.5 | 0.416 | 3.71 | 57.1 | 24.8 | 1.71 | 22.6 | 0.00 | 0.01 | 0.04 | 151 |
| 170 | | 9.01 | 8.99 | 33.864 | 26.230 | 181.2 | 0.454 | 3.37 | 51.8 | 28.2 | 1.82 | 24.7 | 0.00 | 0.00 | 0.03 | 171 208 |
| 200 | | 8.44 | 8.42 | 33.986 | 26.415 | 164.1 | 0.506 | 3.37 | 51.2 | 31.9 | 1.86 | 25.6 | 0.00 | 0.00 | 0.03 | 201 207 |
| 227 | | 8.31 | 8.29 | 34.065 | 26.497 | 156.8 | 0.549 | 2.14 | 32.4 | 40.3 | 2.29 | 30.5 | 0.00 | | 228 | 206 |
| 250 | ISL | 8.17 | 8.14 | 34.098 | 26.544 | 152.7 | 0.584 | 1.93 | 29.1 | 43.4 | 2.42 | 31.4 | 0.00 | | 251 | |
| 269 | | 8.02 | 7.99 | 34.112 | 26.578 | 149.8 | 0.613 | 1.75 | 26.3 | 45.0 | 2.45 | 32.2 | 0.00 | | 271 | 205 |
| 300 | ISL | 7.60 | 7.57 | 34.126 | 26.650 | 143.2 | 0.659 | 1.55 | 23.1 | 50.1 | 2.57 | 33.6 | 0.00 | | 302 | |
| 318 | | 7.34 | 7.31 | 34.131 | 26.691 | 139.4 | 0.684 | 1.44 | 21.3 | 53.3 | 2.63 | 34.5 | 0.00 | | 320 | 204 |
| 377 | | 6.78 | 6.75 | 34.158 | 26.790 | 130.6 | 0.764 | 1.04 | 15.2 | 62.3 | 2.81 | 37.0 | 0.00 | | 379 | 203 |
| 400 | ISL | 6.56 | 6.52 | 34.177 | 26.835 | 126.5 | 0.793 | 0.88 | 12.8 | 66.4 | 2.90 | 37.9 | 0.00 | | 403 | |
| 436 | | 6.23 | 6.19 | 34.208 | 26.903 | 120.4 | 0.838 | 0.66 | 9.5 | 72.8 | 3.02 | 39.3 | 0.00 | | 439 | 202 |
| 500 | ISL | 5.75 | 5.71 | 34.233 | 26.983 | 113.1 | 0.912 | 0.46 | 6.6 | 81.9 | 3.13 | 41.0 | 0.00 | | 503 | |
| 517 | | 5.62 | 5.58 | 34.240 | 27.005 | 111.2 | 0.931 | 0.41 | 5.8 | 84.3 | 3.16 | 41.5 | 0.00 | | 521 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 | 49.4 N | 123 54.4 W | 21/01/01 | 1057 | UTC | 4402 m | 170 | 15 kn | | 1019.2 mb | 14.7 | C 11.9 | C | | | |
| 0 | ISL | 14.60 | 14.60 | 33.223 | 24.689 | 324.4 | 0.000 | 5.87 | 101.3 | 4.1 | 0.33 | 0.1 | 0.00 | 0.30 | 0.10 | 0 |
| 2 | | 14.60 | 14.60 | 33.223 | 24.689 | 324.5 | 0.006 | 5.87 | 101.3 | 4.1 | 0.33 | 0.1 | 0.00 | 0.30 | 0.10 | 2 220 |
| 10 | ISL | 14.60 | 14.60 | 33.224 | 24.690 | 324.6 | 0.032 | 5.87 | 101.3 | 4.1 | 0.33 | 0.1 | 0.00 | 0.30 | 0.10 | 10 |
| 16 | | 14.60 | 14.60 | 33.224 | 24.690 | 324.7 | 0.052 | 5.87 | 101.3 | 4.1 | 0.33 | 0.1 | 0.00 | 0.31 | 0.10 | 16 219 |
| 20 | ISL | 14.60 | 14.60 | 33.222 | 24.689 | 325.0 | 0.065 | 5.87 | 101.2 | 4.2 | 0.33 | 0.1 | 0.00 | 0.31 | 0.10 | 20 |
| 30 | ISL | 14.59 | 14.59 | 33.218 | 24.688 | 325.4 | 0.097 | 5.86 | 101.1 | 4.3 | 0.32 | 0.1 | 0.00 | 0.33 | 0.12 | 30 |
| 31 | | 14.59 | 14.59 | 33.217 | 24.687 | 325.4 | 0.101 | 5.86 | 101.0 | 4.3 | 0.32 | 0.1 | 0.00 | 0.33 | 0.12 | 31 218 |
| 46 | | 14.46 | 14.45 | 33.211 | 24.711 | 323.7 | 0.149 | 5.85 | 100.6 | 4.3 | 0.33 | 0.1 | 0.00 | 0.40 | 0.15 | 46 217 |
| 50 | ISL | 14.38 | 14.37 | 33.220 | 24.735 | 321.5 | 0.162 | 5.87 | 100.8 | 4.3 | 0.33 | 0.1 | 0.01 | 0.41 | 0.18 | 50 |
| 56 | | 14.21 | 14.20 | 33.231 | 24.779 | 317.4 | 0.181 | 5.89 | 100.8 | 4.4 | 0.34 | 0.1 | 0.02 | 0.43 | 0.21 | 56 216 |
| 66 | | 13.76 | 13.75 | 33.224 | 24.867 | 309.3 | 0.213 | 5.85 | 99.2 | 4.8 | 0.41 | 0.9 | 0.17 | 0.29 | 0.19 | 66 215 |
| 75 | | 12.66 | 12.65 | 33.199 | 25.067 | 290.4 | 0.240 | 5.76 | 95.4 | 6.0 | 0.58 | 3.6 | 0.07 | 0.20 | 0.17 | 75 214 |
| 86 | | 11.21 | 11.20 | 33.201 | 25.340 | 264.5 | 0.270 | 5.52 | 88.7 | 8.3 | 0.81 | 7.3 | 0.01 | 0.11 | 0.12 | 86 213 |
| 95 | | 10.31 | 10.30 | 33.279 | 25.558 | 243.8 | 0.293 | 5.24 | 82.6 | 9.9 | 0.99 | 10.7 | 0.01 | 0.07 | 0.09 | 95 212 |
| 100 | ISL | 10.06 | 10.05 | 33.302 | 25.619 | 238.1 | 0.305 | 5.17 | 81.0 | 10.7 | 1.05 | 11.6 | 0.01 | 0.06 | 0.08 | 100 |
| 109 | | 9.79 | 9.78 | 33.329 | 25.685 | 231.9 | 0.326 | 5.11 | 79.6 | 12.0 | 1.12 | 12.7 | 0.00 | 0.04 | 0.06 | 110 211 |
| 124 | | 9.29 | 9.28 | 33.398 | 25.820 | 219.2 | 0.360 | 4.93 | 76.0 | 14.5 | 1.24 | 14.8 | 0.00 | 0.02 | 0.04 | 125 210 |
| 125 | ISL | 9.29 | 9.28 | 33.410 | 25.830 | 218.4 | 0.362 | 4.88 | 75.2 | 14.8 | 1.26 | 15.1 | 0.00 | 0.02 | 0.04 | 126 |
| 145 | | 9.38 | 9.36 | 33.652 | 26.005 | 202.2 | 0.404 | 3.89 | 60.2 | 21.7 | 1.62 | 20.8 | 0.00 | 0.01 | 0.03 | 146 209 |
| 150 | ISL | 9.34 | 9.32 | 33.697 | 26.047 | 198.3 | 0.414 | 3.85 | 59.5 | 22.6 | 1.63 | 21.4 | 0.00 | 0.01 | 0.03 | 151 |
| 169 | | 9.11 | 9.09 | 33.832 | 26.189 | 185.1 | 0.451 | 3.70 | 57.0 | 24.8 | 1.67 | 22.4 | 0.00 | 0.00 | 0.02 | 170 208 |
| 200 | | 8.75 | 8.73 | 33.959 | 26.346 | 170.8 | 0.506 | 3.61 | 55.2 | 28.8 | 1.74 | 24.0 | 0.00 | 0.00 | 0.01 | 201 207 |
| 229 | | 8.12 | 8.10 | 33.991 | 26.467 | 159.5 | 0.554 | 3.18 | 47.9 | 35.4 | 1.95 | 27.1 | 0.01 | | 230 | 206 |
| 250 | ISL | 7.84 | 7.82 | 34.021 | 26.532 | 153.6 | 0.587 | 2.67 | 40.0 | 40.1 | 2.15 | 29.4 | 0.01 | | 251 | |
| 269 | | 7.62 | 7.59 | 34.044 | 26.583 | 149.1 | 0.616 | 2.24 | 33.4 | 44.1 | 2.31 | 31.3 | 0.00 | | 271 | 205 |
| 300 | ISL | 7.15 | 7.12 | 34.049 | 26.653 | 142.6 | 0.661 | 2.00 | 29.5 | 49.8 | 2.45 | 33.1 | 0.00 | | 302 | |
| 319 | | 6.86 | 6.83 | 34.044 | 26.689 | 139.3 | 0.688 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 82 47

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|-------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 16.4 N | 120 1.5 W | 20/01/01 | 0039 | UTC | 574 m | 170 | 04 kn | 290 02 09 | 1 | 1020.8 mb | 13.3 C | 12.5 C | 7/8 | CS | | |
| 0 ISL | 13.24 | 13.24 | 33.544 | 25.218 | 274.1 | 0.000 | 6.15 | 103.4 | 6.3 | 0.46 | 1.9 | 0.05 | 3.64 | 1.26 | 0 | |
| 2 A | 13.24 | 13.24 | 33.544 | 25.218 | 274.1 | 0.005 | 6.15 | 103.4 | 6.3 | 0.46 | 1.9 | 0.05 | 3.64 | 1.26 | 2 | 224 |
| 10 | 13.08 | 13.08 | 33.542 | 25.249 | 271.4 | 0.027 | 6.01 | 100.7 | 6.5 | 0.49 | 2.3 | 0.04 | 3.91 | 1.16 | 10 | 223 |
| 20 | 13.04 | 13.04 | 33.545 | 25.259 | 270.7 | 0.054 | 5.97 | 99.9 | 6.5 | 0.49 | 2.4 | 0.04 | 3.68 | 1.07 | 20 | 222 |
| 30 | 12.81 | 12.81 | 33.553 | 25.311 | 266.0 | 0.081 | 5.38 | 89.6 | 8.2 | 0.68 | 5.4 | 0.08 | 1.26 | 0.73 | 30 | 221 |
| 40 | 11.63 | 11.62 | 33.647 | 25.609 | 237.9 | 0.106 | 4.09 | 66.5 | 15.4 | 1.25 | 14.0 | 0.05 | 0.35 | 0.27 | 40 | 220 |
| 50 | 11.14 | 11.13 | 33.697 | 25.737 | 225.8 | 0.130 | 3.66 | 58.9 | 18.0 | 1.43 | 16.5 | 0.02 | 0.15 | 0.17 | 50 | 219 |
| 59 | 10.73 | 10.72 | 33.758 | 25.858 | 214.6 | 0.149 | 3.30 | 52.6 | 21.1 | 1.62 | 19.3 | 0.01 | 0.05 | 0.12 | 59 | 218 |
| 69 | 10.34 | 10.33 | 33.817 | 25.972 | 203.9 | 0.170 | 3.05 | 48.3 | 23.7 | 1.74 | 21.4 | 0.01 | 0.03 | 0.11 | 69 | 217 |
| 75 ISL | 10.29 | 10.28 | 33.843 | 26.001 | 201.3 | 0.183 | 2.97 | 46.9 | 24.4 | 1.78 | 22.0 | 0.01 | 0.02 | 0.10 | 75 | |
| 85 | 10.21 | 10.20 | 33.854 | 26.024 | 199.4 | 0.203 | 2.88 | 45.4 | 25.0 | 1.82 | 22.5 | 0.00 | 0.02 | 0.09 | 85 | 216 |
| 99 | 10.09 | 10.08 | 33.881 | 26.065 | 195.7 | 0.230 | 2.79 | 43.9 | 26.1 | 1.87 | 23.2 | 0.00 | 0.02 | 0.10 | 100 | 215 |
| 100 ISL | 10.08 | 10.07 | 33.882 | 26.068 | 195.5 | 0.232 | 2.79 | 43.9 | 26.1 | 1.87 | 23.2 | 0.00 | 0.02 | 0.10 | 101 | |
| 120 | 9.87 | 9.86 | 33.904 | 26.121 | 190.8 | 0.271 | 2.78 | 43.6 | 27.2 | 1.91 | 24.1 | 0.00 | 0.01 | 0.08 | 121 | 214 |
| 125 ISL | 9.81 | 9.80 | 33.918 | 26.142 | 188.9 | 0.280 | 2.73 | 42.7 | 27.9 | 1.94 | 24.5 | 0.00 | 0.01 | 0.08 | 126 | |
| 139 | 9.64 | 9.62 | 33.962 | 26.205 | 183.2 | 0.306 | 2.54 | 39.6 | 30.0 | 2.02 | 25.5 | 0.00 | 0.01 | 0.08 | 140 | 213 |
| 150 ISL | 9.53 | 9.51 | 33.993 | 26.247 | 179.4 | 0.326 | 2.43 | 37.8 | 31.2 | 2.07 | 26.2 | 0.00 | 0.01 | 0.07 | 151 | |
| 169 | 9.35 | 9.33 | 34.044 | 26.317 | 173.2 | 0.360 | 2.21 | 34.3 | 33.3 | 2.17 | 27.3 | 0.00 | 0.01 | 0.06 | 170 | 212 |
| 200 | 9.05 | 9.03 | 34.122 | 26.426 | 165.3 | 0.412 | 1.69 | 26.0 | 38.2 | 2.36 | 29.5 | 0.00 | 0.01 | 0.07 | 201 | 211 |
| 229 | 8.82 | 8.80 | 34.150 | 26.485 | 158.2 | 0.459 | 1.41 | 21.6 | 42.1 | 2.48 | 30.8 | 0.00 | | | 230 | 210 |
| 250 ISL | 8.61 | 8.58 | 34.163 | 26.528 | 154.4 | 0.491 | 1.19 | 18.2 | 45.1 | 2.57 | 31.8 | 0.00 | | | 252 | |
| 269 | 8.40 | 8.37 | 34.172 | 26.568 | 150.9 | 0.520 | 1.02 | 15.5 | 48.1 | 2.65 | 32.7 | 0.00 | | | 271 | 209 |
| 300 ISL | 8.01 | 7.98 | 34.189 | 26.640 | 144.4 | 0.566 | 0.93 | 14.0 | 53.6 | 2.79 | 34.0 | 0.00 | | | 302 | |
| 318 | 7.79 | 7.76 | 34.199 | 26.681 | 140.8 | 0.592 | 0.89 | 13.3 | 56.9 | 2.86 | 34.7 | 0.00 | | | 320 | 208 |
| 377 | 7.27 | 7.23 | 34.219 | 26.771 | 132.8 | 0.673 | 0.44 | 6.5 | 66.4 | 3.05 | 35.7 | 0.00 | | | 379 | 207 |
| 400 ISL | 7.06 | 7.02 | 34.225 | 26.805 | 129.8 | 0.703 | 0.36 | 5.3 | 70.6 | 3.12 | 35.5 | 0.00 | | | 403 | |
| 438 | 6.76 | 6.72 | 34.232 | 26.852 | 125.7 | 0.751 | 0.28 | 4.1 | 78.2 | 3.23 | 35.1 | 0.00 | | | 441 | 206 |
| 477 | 6.59 | 6.55 | 34.238 | 26.880 | 123.5 | 0.800 | 0.15 | 2.2 | 86.7 | 3.34 | 33.4 | 0.00 | | | 480 | 205 |
| 500 ISL | 6.52 | 6.47 | 34.241 | 26.892 | 122.6 | 0.828 | 0.12 | 1.7 | 92.3 | 3.43 | 31.4 | 0.00 | | | 504 | |
| 512 | 6.49 | 6.44 | 34.242 | 26.897 | 122.3 | 0.843 | 0.11 | 1.6 | 95.7 | 3.49 | 29.9 | 0.00 | | | 516 | 204 |
| 536 | 6.43 | 6.38 | 34.243 | 26.906 | 121.8 | 0.872 | 0.07 | 1.0 | 104.8 | 3.68 | 26.0 | 0.00 | | | 540 | 203 |
| 563 | 6.39 | 6.34 | 34.243 | 26.911 | 121.6 | 0.905 | 0.09 | 1.3 | 104.0 | 3.68 | 26.8 | 0.00 | | | 567 | 202 |
| 567 | 6.38 | 6.33 | 34.243 | 26.913 | 121.5 | 0.910 | 0.11 | 1.6 | 101.0 | 3.60 | 28.1 | 0.02 | | | 571 | 201 |

A) SANTA BARBARA BASIN STATION.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 40.6

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 13.5 N | 119 24.9 W | 19/01/01 | 2014 | UTC | 32 m | 300 | 03 kn | | 1 | 1023.9 mb | 13.9 C | 10.8 C | 05m | 7/8 | AC | |
| 0 ISL | 13.88 | 13.88 | 33.357 | 24.943 | 300.2 | 0.000 | 5.68 | 96.6 | 5.3 | 0.57 | 2.4 | 0.17 | 1.55 | 0.34 | 0 | |
| 2 | 13.88 | 13.88 | 33.357 | 24.943 | 300.2 | 0.006 | 5.68 | 96.6 | 5.3 | 0.57 | 2.4 | 0.17 | 1.55 | 0.34 | 2 | 205 |
| 5 | 13.83 | 13.83 | 33.357 | 24.953 | 299.3 | 0.015 | 5.66 | 96.2 | 5.4 | 0.57 | 2.4 | 0.17 | 1.37 | 0.35 | 5 | 204 |
| 10 | 13.83 | 13.83 | 33.360 | 24.956 | 299.2 | 0.030 | 5.61 | 95.3 | 5.3 | 0.58 | 2.4 | 0.18 | 1.01 | 0.32 | 10 | 203 |
| 20 | 13.97 | 13.97 | 33.443 | 24.992 | 296.2 | 0.060 | 5.66 | 96.5 | 5.0 | 0.54 | 1.9 | 0.19 | 0.99 | 0.41 | 20 | 202 |
| 30 | 13.96 | 13.96 | 33.474 | 25.018 | 293.9 | 0.089 | 5.68 | 96.8 | 4.8 | 0.55 | 1.6 | 0.20 | 1.18 | 0.54 | 30 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 10.4 N | 119 30.8 W | 19/01/01 | 1809 | UTC | 178 m | 200 | 03 kn | | 2 | 1023.8 mb | 15.0 C | 10.5 C | 05m | 8/8 | AS | |
| 0 ISL | 13.90 | 13.90 | 33.389 | 24.964 | 298.2 | 0.000 | 5.75 | 97.9 | 5.6 | 0.55 | 1.9 | 0.16 | 2.27 | 0.45 | 0 | |
| 1 A | 13.90 | 13.90 | 33.389 | 24.964 | 298.2 | 0.003 | 5.75 | 97.9 | 5.6 | 0.55 | 1.9 | 0.16 | 2.27 | 0.45 | 1 | 216 |
| 3 A | 13.89 | 13.89 | 33.390 | 24.967 | 298.0 | 0.009 | 5.75 | 97.9 | 5.5 | 0.55 | 1.9 | 0.16 | 2.14 | 0.43 | 3 | 215 |
| 6 A | 13.88 | 13.88 | 33.389 | 24.968 | 298.0 | 0.018 | 5.77 | 98.2 | 5.4 | 0.56 | 1.9 | 0.16 | 2.03 | 0.47 | 6 | 214 |
| 10 A | 13.88 | 13.88 | 33.405 | 24.980 | 296.9 | 0.030 | 5.74 | 97.7 | 5.2 | 0.53 | 1.8 | 0.16 | 1.44 | 0.39 | 10 | 213 |
| 13 A | 13.88 | 13.88 | 33.421 | 24.993 | 295.8 | 0.039 | 5.73 | 97.5 | 4.9 | 0.51 | 1.7 | 0.16 | 1.26 | 0.38 | 13 | 212 |
| 19 A | 13.98 | 13.98 | 33.498 | 25.032 | 292.3 | 0.056 | 5.83 | 99.5 | 3.5 | 0.37 | 0.9 | 0.11 | 0.87 | 0.42 | 19 | 211 |
| 20 ISL | 13.97 | 13.97 | 33.499 | 25.035 | 292.0 | 0.059 | 5.82 | 99.3 | 3.5 | 0.37 | 1.0 | 0.11 | 0.84 | 0.42 | 20 | |
| 30 | 13.90 | 13.90 | 33.507 | 25.056 | 290.3 | 0.088 | 5.77 | 98.3 | 3.9 | 0.41 | 1.5 | 0.15 | 0.70 | 0.38 | 30 | 210 |
| 40 | 13.49 | 13.48 | 33.502 | 25.136 | 282.9 | 0.117 | 5.35 | 90.4 | 5.8 | 0.61 | 4.0 | 0.30 | 0.40 | 0.29 | 40 | 209 |
| 49 | 12.62 | 12.61 | 33.538 | 25.337 | 264.0 | 0.142 | 4.73 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.49 | 12.49 | 33.572 | 25.387 | 257.9 | 0.000 | 5.41 | 89.5 | 8.9 | 0.76 | 6.5 | 0.16 | 2.10 | 0.56 | 0 | |
| 2 | 12.49 | 12.49 | 33.572 | 25.387 | 258.0 | 0.005 | 5.41 | 89.5 | 8.9 | 0.76 | 6.5 | 0.16 | 2.10 | 0.56 | 2 | 210 |
| 10 | 12.50 | 12.50 | 33.572 | 25.385 | 258.4 | 0.026 | 5.41 | 89.5 | 8.8 | 0.75 | 6.5 | 0.16 | 1.94 | 0.57 | 10 | 209 |
| 20 ISL | 12.50 | 12.50 | 33.572 | 25.386 | 258.6 | 0.052 | 5.39 | 89.2 | 8.8 | 0.75 | 6.6 | 0.16 | 1.97 | 0.50 | 20 | |
| 21 | 12.50 | 12.50 | 33.572 | 25.386 | 258.6 | 0.054 | 5.39 | 89.2 | 8.8 | 0.75 | 6.6 | 0.16 | 1.97 | 0.49 | 21 | 208 |
| 30 | 12.50 | 12.50 | 33.572 | 25.386 | 258.8 | 0.078 | 5.39 | 89.2 | 8.8 | 0.75 | 6.6 | 0.16 | 1.90 | 0.48 | 30 | 207 |
| 41 | 12.50 | 12.49 | 33.572 | 25.386 | 259.1 | 0.106 | 5.39 | 89.2 | 8.7 | 0.76 | 6.6 | 0.15 | 2.07 | 0.54 | 41 | 206 |
| 50 ISL | 12.37 | 12.36 | 33.577 | 25.415 | 256.5 | 0.129 | 5.13 | 84.7 | 9.7 | 0.84 | 7.7 | 0.16 | 1.44 | 0.46 | 50 | |
| 51 | 12.34 | 12.33 | 33.579 | 25.423 | 255.9 | 0.132 | 5.09 | 84.0 | 9.9 | 0.85 | 7.9 | 0.16 | 1.35 | 0.45 | 51 | 205 |
| 60 | 11.94 | 11.93 | 33.616 | 25.527 | 246.1 | 0.154 | 4.58 | 74.9 | 12.8 | 1.06 | 11.0 | 0.14 | 0.87 | 0.34 | 60 | 204 |
| 70 | 11.69 | 11.68 | 33.644 | 25.596 | 239.8 | 0.179 | 4.37 | 71.1 | 14.4 | 1.16 | 12.5 | 0.12 | 0.68 | 0.27 | 70 | 203 |
| 75 ISL | 11.53 | 11.52 | 33.659 | 25.637 | 236.0 | 0.191 | 4.20 | 68.1 | 15.4 | 1.23 | 13.6 | 0.11 | 0.54 | 0.27 | 75 | |
| 80 | 11.33 | 11.32 | 33.678 | 25.689 | 231.2 | 0.202 | 3.99 | 64.4 | 16.6 | 1.32 | 14.9 | 0.09 | 0.40 | 0.26 | 80 | 202 |
| 91 | 10.75 | 10.74 | 33.746 | 25.846 | 216.5 | 0.227 | 3.42 | 54.6 | 20.5 | 1.57 | 18.6 | 0.05 | 0.13 | 0.15 | 91 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.43 | 13.43 | 33.505 | 25.149 | 280.6 | 0.000 | 5.85 | 98.7 | 4.2 | 0.42 | 1.6 | 0.07 | 0.86 | 0.36 | 0 | |
| 2 | 13.43 | 13.43 | 33.505 | 25.150 | 280.6 | 0.006 | 5.85 | 98.7 | 4.2 | 0.42 | 1.6 | 0.07 | 0.86 | 0.36 | 2 | 220 |
| 10 ISL | 13.44 | 13.44 | 33.505 | 25.148 | 281.0 | 0.028 | 5.85 | 98.7 | 4.1 | 0.41 | 1.6 | 0.07 | 0.86 | 0.35 | 10 | |
| 16 | 13.44 | 13.44 | 33.505 | 25.148 | 281.1 | 0.045 | 5.85 | 98.7 | 4.1 | 0.41 | 1.6 | 0.07 | 0.86 | 0.34 | 16 | 219 |
| 20 ISL | 13.44 | 13.44 | 33.505 | 25.148 | 281.3 | 0.056 | 5.85 | 98.7 | 4.1 | 0.41 | 1.6 | 0.07 | 0.85 | 0.34 | 20 | |
| 30 | 13.44 | 13.44 | 33.505 | 25.148 | 281.5 | 0.084 | 5.84 | 98.5 | 4.1 | 0.42 | 1.6 | 0.07 | 0.84 | 0.35 | 30 | 218 |
| 45 | 13.44 | 13.43 | 33.505 | 25.149 | 281.9 | 0.127 | 5.84 | 98.5 | 4.1 | 0.41 | 1.6 | 0.07 | 0.85 | 0.34 | 45 | 217 |
| 50 ISL | 13.36 | 13.35 | 33.501 | 25.162 | 280.8 | 0.141 | 5.79 | 97.5 | 4.3 | 0.44 | 2.0 | 0.07 | 0.81 | 0.32 | 50 | |
| 56 | 13.26 | 13.25 | 33.497 | 25.179 | 279.3 | 0.157 | 5.73 | 96.3 | 4.6 | 0.48 | 2.5 | 0.07 | 0.68 | 0.29 | 56 | 216 |
| 66 | 11.27 | 11.26 | 33.504 | 25.564 | 242.7 | 0.184 | 4.60 | 74.1 | 11.5 | 1.09 | 12.0 | 0.04 | 0.18 | 0.18 | 66 | 215 |
| 75 | 10.64 | 10.63 | 33.584 | 25.739 | 226.2 | 0.205 | 4.11 | 65.4 | 15.8 | 1.35 | 16.4 | 0.02 | 0.09 | 0.11 | 75 | 214 |
| 85 | 10.30 | 10.29 | 33.639 | 25.840 | 216.7 | 0.227 | 3.86 | 61.0 | 18.1 | 1.47 | 18.4 | 0.01 | 0.05 | 0.09 | 85 | 213 |
| 95 | 10.04 | 10.03 | 33.698 | 25.931 | 208.3 | 0.248 | 3.64 | 57.2 | 20.5 | 1.58 | 20.0 | 0.01 | 0.03 | 0.08 | 95 | 212 |
| 100 ISL | 9.91 | 9.90 | 33.720 | 25.970 | 204.7 | 0.258 | 3.55 | 55.6 | 21.5 | 1.63 | 20.8 | 0.01 | 0.02 | 0.06 | 101 | |
| 110 | 9.70 | 9.69 | 33.773 | 26.046 | 197.6 | 0.278 | 3.36 | 52.4 | 23.4 | 1.72 | 22.3 | 0.01 | 0.01 | 0.05 | 111 | 211 |
| 125 | 9.52 | 9.51 | 33.909 | 26.183 | 185.0 | 0.307 | 2.89 | 44.9 | 27.4 | 1.89 | 24.6 | 0.01 | 0.01 | 0.13 | 126 | 210 |
| 144 | 9.22 | 9.20 | 33.985 | 26.291 | 175.0 | 0.341 | 2.68 | 41.4 | 30.5 | 2.00 | 26.1 | 0.01 | 0.00 | 0.04 | 145 | 209 |
| 150 ISL | 9.11 | 9.09 | 33.995 | 26.317 | 172.7 | 0.352 | 2.66 | 41.0 | 31.3 | 2.02 | 26.4 | 0.01 | 0.00 | 0.04 | 151 | |
| 169 | 8.78 | 8.76 | 34.012 | 26.382 | 166.7 | 0.384 | 2.63 | 40.2 | 33.7 | 2.06 | 27.3 | 0.01 | 0.01 | 0.05 | 170 | 208 |
| 200 | 8.35 | 8.33 | 34.043 | 26.473 | 158.5 | 0.434 | 2.48 | 37.6 | 37.6 | 2.16 | 28.8 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 229 | 8.20 | 8.18 | 34.113 | 26.551 | 151.7 | 0.479 | 1.97 | 29.8 | 42.0 | 2.35 | 30.4 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.99 | 7.96 | 34.130 | 26.596 | 147.7 | 0.511 | 1.77 | 26.6 | 45.0 | 2.44 | 31.4 | 0.01 | | | 252 | |
| 269 | 7.78 | 7.75 | 34.136 | 26.632 | 144.5 | 0.539 | 1.63 | 24.4 | 47.7 | 2.51 | 32.3 | 0.01 | | | 271 | 205 |
| 300 ISL | 7.55 | 7.52 | 34.164 | 26.687 | 139.7 | 0.583 | 1.35 | 20.1 | 52.0 | 2.63 | 33.7 | 0.01 | | | 302 | |
| 319 | 7.41 | 7.38 | 34.182 | 26.722 | 136.6 | 0.609 | 1.18 | 17.5 | 54.8 | 2.71 | 34.5 | 0.01 | | | 321 | 204 |
| 380 | 6.80 | 6.76 | 34.234 | 26.848 | 125.3 | 0.689 | 0.72 | 10.5 | 66.0 | 2.94 | 37.5 | 0.00 | | | 382 | 203 |
| 400 ISL | 6.73 | 6.69 | 34.243 | 26.864 | 123.9 | 0.714 | 0.66 | 9.6 | 67.3 | 2.97 | 37.8 | 0.00 | | | 403 | |
| 437 | 6.62 | 6.58 | 34.251 | 26.886 | 122.4 | 0.759 | 0.59 | 8.6 | 69.3 | 3.01 | 38.1 | 0.00 | | | 440 | 202 |
| 500 ISL | 5.98 | 5.94 | 34.252 | 26.970 | 114.7 | 0.834 | 0.44 | 6.3 | 78.8 | 3.12 | 40.3 | 0.00 | | | 503 | |
| 513 | 5.85 | 5.81 | 34.253 | 26.987 | 113.1 | 0.849 | 0.41 | 5.9 | 80.8 | 3.14 | 40.7 | 0.00 | | | 517 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 34.9 N | 120 45.2 W | 19/01/01 | 0458 | UTC | 1316 m | 320 | 18 kn | | | 1023.7 mb | 13.0 | C 10.5 C | | | | |
| 0 ISL | 13.12 | 13.12 | 33.412 | 25.140 | 281.5 | 0.000 | 5.94 | 99.5 | 4.5 | 0.41 | 1.3 | 0.05 | 0.66 | 0.23 | 0 | |
| 3 | 13.12 | 13.12 | 33.412 | 25.140 | 281.6 | 0.008 | 5.94 | 99.5 | 4.5 | 0.41 | 1.3 | 0.05 | 0.66 | 0.23 | 3 | 220 |
| 10 ISL | 13.13 | 13.13 | 33.412 | 25.138 | 281.9 | 0.028 | 5.92 | 99.2 | 4.5 | 0.41 | 1.3 | 0.05 | 0.65 | 0.23 | 10 | |
| 14 | 13.13 | 13.13 | 33.412 | 25.138 | 282.0 | 0.039 | 5.91 | 99.0 | 4.5 | 0.41 | 1.3 | 0.05 | 0.65 | 0.23 | 14 | 219 |
| 20 ISL | 13.12 | 13.12 | 33.412 | 25.140 | 282.0 | 0.056 | 5.91 | 99.0 | 4.5 | 0.41 | 1.3 | 0.05 | 0.64 | 0.23 | 20 | |
| 30 | 13.11 | 13.11 | 33.412 | 25.142 | 282.0 | 0.085 | 5.90 | 98.8 | 4.4 | 0.41 | 1.4 | 0.05 | 0.64 | 0.23 | 30 | 218 |
| 45 | 12.98 | 12.97 | 33.411 | 25.168 | 280.0 | 0.127 | 5.92 | 98.9 | 4.6 | 0.43 | 1.6 | 0.07 | 0.66 | 0.24 | 45 | 217 |
| 50 ISL | 12.89 | 12.88 | 33.400 | 25.177 | 279.3 | 0.141 | 5.89 | 98.2 | 4.9 | 0.44 | 2.1 | 0.07 | 0.58 | 0.22 | 50 | |
| 56 | 12.63 | 12.62 | 33.383 | 25.215 | 275.8 | 0.157 | 5.80 | 96.1 | 5.2 | 0.50 | 2.6 | 0.07 | 0.45 | 0.20 | 56 | 216 |
| 65 | 11.71 | 11.70 | 33.360 | 25.372 | 261.0 | 0.182 | 5.44 | 88.4 | 7.3 | 0.73 | 6.3 | 0.06 | 0.22 | 0.19 | 65 | 215 |
| 74 | 10.56 | 10.55 | 33.439 | 25.639 | 235.6 | 0.204 | 4.72 | 74.9 | 12.6 | 1.13 | 12.9 | 0.02 | 0.10 | 0.12 | 74 | 214 |
| 75 ISL | 10.55 | 10.54 | 33.450 | 25.650 | 234.7 | 0.206 | 4.68 | 74.2 | 12.9 | 1.15 | 13.2 | 0.02 | 0.09 | 0.12 | 75 | |
| 84 | 10.44 | 10.43 | 33.517 | 25.721 | 228.1 | 0.227 | 4.37 | 69.2 | 15.2 | 1.30 | 15.5 | 0.01 | 0.07 | 0.10 | 84 | 213 |
| 94 | 10.07 | 10.06 | 33.685 | 25.916 | 209.8 | 0.249 | 3.56 | 55.9 | 21.0 | 1.62 | 20.6 | 0.01 | 0.04 | 0.09 | 94 | 212 |
| 100 ISL | 9.88 | 9.87 | 33.734 | 25.986 | 203.2 | 0.261 | 3.36 | 52.6 | 22.9 | 1.71 | 22.1 | 0.01 | 0.03 | 0.08 | 101 | |
| 109 | 9.64 | 9.63 | 33.778 | 26.060 | 196.3 | 0.279 | 3.22 | 50.2 | 24.8 | 1.79 | 23.3 | 0.01 | 0.01 | 0.07 | 110 | 211 |
| 124 | 9.35 | 9.34 | 33.867 | 26.177 | 185.4 | 0.308 | 2.95 | 45.7 | 28.0 | 1.92 | 25.2 | 0.01 | 0.01 | 0.05 | 125 | 210 |
| 125 ISL | 9.33 | 9.32 | 33.873 | 26.185 | 184.7 | 0.310 | 2.93 | 45.3 | 28.2 | 1.93 | 25.3 | 0.01 | 0.01 | 0.05 | 126 | |
| 145 | 8.85 | 8.83 | 33.970 | 26.338 | 170.5 | 0.345 | 2.65 | 40.6 | 32.7 | 2.06 | 27.4 | 0.00 | 0.00 | 0.05 | 146 | 209 |
| 150 ISL | 8.72 | 8.70 | 33.985 | 26.370 | 167.5 | 0.354 | 2.60 | 39.7 | 33.8 | 2.09 | 27.8 | 0.00 | 0.00 | 0.05 | 151 | |
| 169 | 8.31 | 8.29 | 34.023 | 26.463 | 158.9 | 0.385 | 2.48 | 37.5 | 37.3 | 2.17 | 29.1 | 0.00 | 0.00 | 0.04 | 170 | 208 |
| 199 | 8.02 | 8.00 | 34.030 | 26.512 | 154.7 | 0.432 | 2.44 | 36.7 | 39.6 | 2.21 | 29.9 | 0.00 | 0.00 | 0.03 | 200 | 207 |
| 200 ISL | 8.00 | 7.98 | 34.030 | 26.515 | 154.4 | 0.433 | 2.44 | 36.7 | 39.7 | 2.21 | 29.9 | 0.00 | | | 201 | |
| 230 | 7.51 | 7.49 | 34.040 | 26.595 | 147.2 | 0.479 | 2.32 | 34.5 | 44.8 | 2.34 | 31.4 | 0.00 | | | 231 | 206 |
| 250 ISL | 7.24 | 7.22 | 34.043 | 26.635 | 143.5 | 0.508 | 2.17 | 32.1 | 48.0 | 2.41 | 32.4 | 0.00 | | | 252 | |
| 270 | 7.02 | 6.99 | 34.050 | 26.671 | 140.3 | 0.536 | 1.98 | 29.1 | 51.2 | 2.49 | 33.5 | 0.00 | | | 272 | 205 |
| 300 ISL | 6.86 | 6.83 | 34.089 | 26.724 | 135.7 | 0.577 | 1.58 | 23.1 | 55.7 | 2.64 | 35.0 | 0.00 | | | 302 | |
| 320 | 6.78 | 6.75 | 34.118 | 26.758 | 132.7 | 0.604 | 1.31 | 19.2 | 58.8 | 2.74 | 35.9 | 0.00 | | | 322 | 204 |
| 379 | 6.27 | 6.24 | 34.161 | 26.860 | 123.6 | 0.680 | 0.83 | 12.0 | 68.9 | 2.96 | 38.6 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.13 | 6.09 | 34.174 | 26.888 | 121.1 | 0.706 | 0.73 | 10.5 | 71.8 | 3.01 | 39.2 | 0.00 | | | 403 | |
| 436 | 5.93 | 5.89 | 34.198 | 26.933 | 117.2 | 0.748 | 0.59 | 8.5 | 76.2 | 3.08 | 40.1 | 0.00 | | | 439 | 202 |
| 500 ISL | 5.70 | 5.66 | 34.257 | 27.008 | 110.7 | 0.821 | 0.38 | 5.4 | 82.7 | 3.18 | 41.1 | 0.00 | | | 503 | |
| 509 | 5.67 | 5.63 | 34.266 | 27.019 | 109.8 | 0.831 | 0.35 | 5.0 | 83.6 | 3.19 | 41.2 | 0.00 | | | 513 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 14.7 N | 121 26.3 W | 18/01/01 | 2248 | UTC | 3795 m | 320 | 13 kn | 330 03 05 | 1 | 1024.9 mb | 12.2 | C 10.5 C | 19m | 3/8 | AC | |
| 0 ISL | 13.23 | 13.23 | 33.380 | 25.093 | 285.9 | 0.000 | 6.01 | 100.9 | 4.3 | 0.41 | 1.2 | 0.05 | 0.68 | 0.19 | 0 | |
| 2 | 13.23 | 13.23 | 33.380 | 25.093 | 286.0 | 0.006 | 6.01 | 100.9 | 4.3 | 0.41 | 1.2 | 0.05 | 0.68 | 0.19 | 2 | 220 |
| 10 ISL | 13.24 | 13.24 | 33.380 | 25.091 | 286.4 | 0.029 | 5.98 | 100.4 | 4.3 | 0.41 | 1.2 | 0.05 | 0.67 | 0.20 | 10 | 219 |
| 20 | 13.24 | 13.24 | 33.380 | 25.091 | 286.6 | 0.057 | 5.99 | 100.6 | 4.3 | 0.41 | 1.2 | 0.05 | 0.67 | 0.20 | 20 | 218 |
| 30 | 13.23 | 13.23 | 33.380 | 25.094 | 286.7 | 0.086 | 6.01 | 100.9 | 4.1 | 0.41 | 1.2 | 0.05 | 0.66 | 0.20 | 30 | 217 |
| 40 | 13.20 | 13.19 | 33.379 | 25.099 | 286.4 | 0.115 | 5.96 | 100.0 | 4.2 | 0.41 | 1.3 | 0.05 | 0.68 | 0.22 | 40 | 216 |
| 50 | 13.19 | 13.18 | 33.395 | 25.114 | 285.3 | 0.143 | 5.92 | 99.3 | 4.2 | 0.42 | 1.5 | 0.06 | 0.60 | 0.22 | 50 | 215 |
| 60 | 13.13 | 13.12 | 33.394 | 25.125 | 284.5 | 0.172 | 5.96 | 99.8 | 4.2 | 0.42 | 1.6 | 0.06 | 0.60 | 0.21 | 60 | 214 |
| 70 | 11.31 | 11.30 | 33.317 | 25.411 | 257.3 | 0.199 | 5.34 | 86.0 | 8.2 | 0.83 | 8.0 | 0.03 | 0.15 | 0.16 | 70 | 213 |
| 75 ISL | 10.81 | 10.80 | 33.333 | 25.513 | 247.7 | 0.211 | 5.14 | 81.9 | 9.8 | 0.97 | 10.2 | 0.02 | 0.12 | 0.13 | 75 | |
| 85 | 10.19 | 10.18 | 33.403 | 25.675 | 232.4 | 0.235 | 4.88 | 76.8 | 12.5 | 1.15 | 13.2 | 0.01 | 0.07 | 0.09 | 85 | 212 |
| 100 | 9.46 | 9.45 | 33.512 | 25.881 | 213.0 | 0.269 | 4.68 | 72.5 | 15.8 | 1.28 | 15.7 | 0.01 | 0.03 | 0.05 | 100 | 211 |
| 120 | 9.37 | 9.36 | 33.647 | 26.002 | 201.9 | 0.310 | 4.16 | 64.4 | 19.9 | 1.49 | 19.1 | 0.01 | 0.02 | 0.04 | 121 | 210 |
| 125 ISL | 9.35 | 9.34 | 33.699 | 26.046 | 197.9 | 0.320 | 3.90 | 60.3 | 21.7 | 1.59 | 20.6 | 0.01 | 0.01 | 0.04 | 126 | |
| 139 | 9.27 | 9.25 | 33.839 | 26.169 | 186.5 | 0.347 | 3.18 | 49.1 | 26.9 | 1.85 | 24.5 | 0.01 | 0.00 | 0.04 | 140 | 209 |
| 150 ISL | 9.15 | 9.13 | 33.894 | 26.231 | 180.8 | 0.367 | 3.06 | 47.2 | 29.0 | 1.93 | 25.9 | 0.01 | 0.00 | 0.04 | 151 | |
| 170 | 8.86 | 8.84 | 33.949 | 26.320 | 172.6 | 0.403 | 2.85 | 43.7 | 31.5 | 2.00 | 27.0 | 0.01 | 0.00 | 0.03 | 171 | 208 |
| 200 | 8.32 | 8.30 | 34.024 | 26.463 | 159.5 | 0.453 | 2.54 | 38.5 | 37.0 | 2.15 | 29.0 | 0.01 | 0.00 | 0.03 | 201 | 207 |
| 229 | 8.01 | 7.99 | 34.045 | 26.526 | 153.9 | 0.498 | 2.32 | 34.9 | 40.9 | 2.27 | 30.4 | 0.01 | | | 230 | 206 |
| 250 ISL | 7.64 | 7.62 | 34.057 | 26.590 | 148.1 | 0.530 | 2.13 | 31.8 | 45.0 | 2.37 | 31.7 | 0.00 | | | 251 | |
| 266 | 7.35 | 7.32 | 34.065 | 26.637 | 143.7 | 0.553 | 1.99 | 29.5 | 48.4 | 2.45 | 32.7 | 0.00 | | | 268 | 205 |
| 300 ISL | 6.89 | 6.86 | 34.076 | 26.710 | 137.1 | 0.601 | 1.71 | 25.1 | 54.6 | 2.60 | 34.6 | 0.00 | | | 302 | |
| 318 | 6.69 | 6.66 | 34.082 | 26.742 | 134.2 | 0.625 | 1.56 | 22.8 | 57.8 | 2.67 | 35.5 | 0.00 | | | 320 | 204 |
| 377 | 6.16 | 6.13 | 34.118 | 26.840 | 125.4 | 0.702 | 1.06 | 15.3 | 68.1 | 2.89 | 38.5 | 0.00 | | | 379 | 203 |
| 400 ISL | 6.05 | 6.02 | 34.132 | 26.865 | 123.2 | 0.730 | 0.94 | 13.5 | 70 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 55.2 N | 122 7.4 W | 18/01/01 | 1743 | UTC | 4178 m | 360 | 09 kn | 350 01 07 | 1 | 1026.7 mb | 13.2 | C 11.8 | C | 15m | 1/8 | CC |
| 0 ISL | 13.70 | 13.70 | 33.332 | 24.961 | 298.5 | 0.000 | 6.02 | 102.0 | 4.0 | 0.35 | 0.3 | 0.02 | 0.67 | 0.22 | 0 | |
| 2 A | 13.70 | 13.70 | 33.332 | 24.961 | 298.6 | 0.006 | 6.02 | 102.0 | 4.0 | 0.35 | 0.3 | 0.02 | 0.67 | 0.22 | 2 | 221 |
| 9 A | 13.70 | 13.70 | 33.334 | 24.963 | 298.6 | 0.027 | 5.97 | 101.2 | 4.0 | 0.35 | 0.3 | 0.02 | 0.66 | 0.19 | 9 | 220 |
| 10 ISL | 13.70 | 13.70 | 33.334 | 24.963 | 298.6 | 0.030 | 5.97 | 101.2 | 4.0 | 0.35 | 0.3 | 0.02 | 0.66 | 0.19 | 10 | |
| 19 A | 13.70 | 13.70 | 33.334 | 24.963 | 298.8 | 0.057 | 6.01 | 101.8 | 4.0 | 0.34 | 0.3 | 0.02 | 0.63 | 0.19 | 19 | 219 |
| 20 ISL | 13.70 | 13.70 | 33.334 | 24.963 | 298.9 | 0.060 | 6.01 | 101.8 | 4.0 | 0.34 | 0.3 | 0.02 | 0.63 | 0.19 | 20 | |
| 30 ISL | 13.71 | 13.71 | 33.334 | 24.961 | 299.3 | 0.090 | 5.99 | 101.5 | 3.9 | 0.34 | 0.3 | 0.02 | 0.64 | 0.17 | 30 | |
| 31 A | 13.71 | 13.71 | 33.334 | 24.961 | 299.3 | 0.093 | 5.99 | 101.5 | 3.9 | 0.34 | 0.3 | 0.02 | 0.64 | 0.17 | 31 | 218 |
| 40 A | 13.70 | 13.69 | 33.335 | 24.964 | 299.3 | 0.120 | 6.00 | 101.7 | 3.9 | 0.34 | 0.4 | 0.02 | 0.64 | 0.19 | 40 | 217 |
| 48 | 13.71 | 13.70 | 33.337 | 24.964 | 299.5 | 0.144 | 5.98 | 101.3 | 3.9 | 0.35 | 0.3 | 0.02 | 0.64 | 0.19 | 48 | 216 |
| 50 ISL | 13.43 | 13.42 | 33.356 | 25.036 | 292.8 | 0.149 | 5.83 | 98.2 | 4.5 | 0.44 | 1.7 | 0.03 | 0.54 | 0.19 | 50 | |
| 56 A | 12.37 | 12.36 | 33.399 | 25.277 | 269.8 | 0.166 | 5.37 | 88.5 | 6.7 | 0.72 | 6.3 | 0.05 | 0.22 | 0.18 | 56 | 215 |
| 63 | 11.30 | 11.29 | 33.334 | 25.426 | 255.7 | 0.185 | 5.25 | 84.6 | 8.7 | 0.87 | 8.6 | 0.02 | 0.14 | 0.15 | 63 | 214 |
| 70 | 10.91 | 10.90 | 33.340 | 25.501 | 248.7 | 0.202 | 5.10 | 81.5 | 10.0 | 0.97 | 10.1 | 0.01 | 0.11 | 0.13 | 70 | 213 |
| 75 ISL | 10.71 | 10.70 | 33.365 | 25.556 | 243.6 | 0.215 | 4.98 | 79.2 | 11.0 | 1.04 | 11.3 | 0.01 | 0.09 | 0.12 | 75 | |
| 85 | 10.29 | 10.28 | 33.422 | 25.673 | 232.6 | 0.238 | 4.81 | 75.8 | 13.0 | 1.16 | 13.3 | 0.01 | 0.06 | 0.09 | 85 | 212 |
| 99 | 9.35 | 9.34 | 33.467 | 25.864 | 214.6 | 0.270 | 4.89 | 75.5 | 14.9 | 1.21 | 14.5 | 0.01 | 0.03 | 0.06 | 99 | 211 |
| 100 ISL | 9.34 | 9.33 | 33.481 | 25.877 | 213.4 | 0.272 | 4.88 | 75.4 | 15.1 | 1.22 | 14.6 | 0.01 | 0.03 | 0.06 | 100 | |
| 119 | 9.09 | 9.08 | 33.712 | 26.098 | 192.8 | 0.311 | 4.45 | 68.4 | 19.8 | 1.39 | 18.1 | 0.00 | 0.01 | 0.03 | 120 | 210 |
| 125 ISL | 9.06 | 9.05 | 33.773 | 26.150 | 187.9 | 0.322 | 4.14 | 63.7 | 22.1 | 1.50 | 19.9 | 0.00 | 0.01 | 0.03 | 126 | |
| 139 | 8.99 | 8.98 | 33.886 | 26.250 | 178.7 | 0.348 | 3.43 | 52.7 | 27.5 | 1.77 | 23.9 | 0.00 | 0.00 | 0.03 | 140 | 209 |
| 150 ISL | 8.82 | 8.80 | 33.938 | 26.318 | 172.5 | 0.367 | 3.32 | 50.8 | 30.3 | 1.87 | 25.4 | 0.00 | 0.00 | 0.03 | 151 | |
| 170 | 8.44 | 8.42 | 33.986 | 26.414 | 163.6 | 0.401 | 3.11 | 47.2 | 33.9 | 1.96 | 26.8 | 0.00 | 0.00 | 0.03 | 171 | 208 |
| 199 | 8.00 | 7.98 | 34.000 | 26.492 | 156.6 | 0.447 | 3.03 | 45.5 | 37.5 | 2.03 | 28.0 | 0.00 | 0.00 | 0.02 | 200 | 207 |
| 200 ISL | 7.99 | 7.97 | 34.002 | 26.495 | 156.3 | 0.449 | 3.01 | 45.2 | 37.7 | 2.04 | 28.1 | 0.00 | | | 201 | |
| 229 | 7.80 | 7.78 | 34.046 | 26.558 | 150.8 | 0.493 | 2.32 | 34.7 | 43.0 | 2.29 | 30.8 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.43 | 7.41 | 34.047 | 26.612 | 145.9 | 0.524 | 2.16 | 32.0 | 46.9 | 2.38 | 32.1 | 0.00 | | | 251 | |
| 270 | 7.03 | 7.00 | 34.043 | 26.664 | 141.0 | 0.553 | 2.08 | 30.6 | 50.8 | 2.45 | 33.1 | 0.00 | | | 272 | 205 |
| 300 ISL | 6.59 | 6.56 | 34.056 | 26.734 | 134.5 | 0.594 | 1.73 | 25.2 | 57.6 | 2.61 | 35.3 | 0.00 | | | 302 | |
| 319 | 6.38 | 6.35 | 34.071 | 26.774 | 130.9 | 0.619 | 1.48 | 21.4 | 61.7 | 2.72 | 36.6 | 0.00 | | | 321 | 204 |
| 376 | 6.23 | 6.20 | 34.149 | 26.855 | 124.0 | 0.692 | 0.91 | 13.1 | 69.6 | 2.94 | 38.6 | 0.00 | | | 378 | 203 |
| 400 ISL | 6.10 | 6.06 | 34.167 | 26.886 | 121.2 | 0.722 | 0.78 | 11.2 | 72.5 | 3.00 | 39.3 | 0.00 | | | 403 | |
| 438 | 5.87 | 5.83 | 34.190 | 26.934 | 117.1 | 0.767 | 0.63 | 9.0 | 77.0 | 3.08 | 40.2 | 0.00 | | | 441 | 202 |
| 500 ISL | 5.55 | 5.51 | 34.246 | 27.018 | 109.6 | 0.837 | 0.42 | 6.0 | 85.2 | 3.19 | 41.5 | 0.00 | | | 503 | |
| 517 | 5.46 | 5.42 | 34.261 | 27.041 | 107.6 | 0.856 | 0.36 | 5.1 | 87.5 | 3.22 | 41.8 | 0.00 | | | 521 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 34.9 N | 122 48.6 W | 18/01/01 | 0755 | UTC | 4268 m | 330 | 12 kn | | | | | | | | | |
| 0 ISL | 13.19 | 13.19 | 33.167 | 24.936 | 300.9 | 0.000 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.08 | 0.57 | 0.18 | 0 | |
| 2 | 13.19 | 13.19 | 33.167 | 24.936 | 300.9 | 0.006 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.08 | 0.57 | 0.18 | 2 | 220 |
| 10 ISL | 13.20 | 13.20 | 33.167 | 24.934 | 301.3 | 0.030 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.08 | 0.58 | 0.17 | 10 | |
| 16 | 13.20 | 13.20 | 33.167 | 24.934 | 301.4 | 0.048 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.08 | 0.58 | 0.17 | 219 | |
| 20 ISL | 13.20 | 13.20 | 33.167 | 24.935 | 301.5 | 0.060 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.08 | 0.57 | 0.17 | 20 | |
| 30 | 13.20 | 13.20 | 33.167 | 24.935 | 301.8 | 0.090 | 6.01 | 100.7 | 4.4 | 0.39 | 0.8 | 0.08 | 0.56 | 0.17 | 30 | 218 |
| 46 | 13.21 | 13.20 | 33.168 | 24.934 | 302.3 | 0.139 | 6.01 | 100.7 | 4.5 | 0.39 | 0.8 | 0.07 | 0.57 | 0.19 | 46 | 217 |
| 50 ISL | 13.25 | 13.24 | 33.191 | 24.944 | 301.5 | 0.151 | 5.99 | 100.5 | 4.5 | 0.39 | 0.9 | 0.08 | 0.54 | 0.19 | 50 | |
| 54 | 13.29 | 13.28 | 33.218 | 24.957 | 300.3 | 0.163 | 5.96 | 100.1 | 4.5 | 0.39 | 0.9 | 0.10 | 0.50 | 0.19 | 54 | 216 |
| 66 | 13.19 | 13.18 | 33.286 | 25.030 | 293.7 | 0.198 | 5.88 | 98.5 | 4.6 | 0.45 | 1.7 | 0.18 | 0.38 | 0.17 | 66 | 215 |
| 75 | 12.43 | 12.42 | 33.403 | 25.270 | 271.1 | 0.224 | 5.38 | 88.8 | 6.6 | 0.72 | 6.3 | 0.04 | 0.17 | 0.17 | 75 | 214 |
| 86 | 11.15 | 11.14 | 33.367 | 25.480 | 251.2 | 0.253 | 5.03 | 80.8 | 9.8 | 0.96 | 10.1 | 0.02 | 0.11 | 0.15 | 86 | 213 |
| 95 | 9.94 | 9.93 | 33.377 | 25.697 | 230.5 | 0.274 | 5.09 | 79.6 | 11.4 | 1.05 | 11.8 | 0.01 | 0.08 | 0.10 | 95 | 212 |
| 100 ISL | 9.86 | 9.85 | 33.410 | 25.736 | 226.9 | 0.286 | 5.03 | 78.5 | 11.9 | 1.08 | 12.2 | 0.01 | 0.07 | 0.10 | 100 | |
| 107 | 9.75 | 9.74 | 33.413 | 25.757 | 225.0 | 0.302 | 4.95 | 77.1 | 12.8 | 1.13 | 13.0 | 0.01 | 0.06 | 0.09 | 108 | 211 |
| 125 ISL | 9.90 | 9.89 | 33.647 | 25.915 | 210.4 | 0.341 | 3.81 | 59.6 | 20.1 | 1.55 | 19.6 | 0.01 | 0.02 | 0.08 | 126 | |
| 126 | 9.91 | 9.90 | 33.662 | 25.925 | 209.5 | 0.343 | 3.74 | 58.6 | 20.6 | 1.57 | 20.0 | 0.01 | 0.02 | 0.08 | 127 | 210 |
| 143 | 9.43 | 9.41 | 33.794 | 26.108 | 192.4 | 0.377 | 3.32 | 51.5 | 25.0 | 1.75 | 23.0 | 0.01 | 0.01 | 0.05 | 144 | 209 |
| 150 ISL | 9.31 | 9.29 | 33.841 | 26.164 | 187.2 | 0.390 | 3.13 | 48.4 | 26.7 | 1.83 | 24.1 | 0.01 | 0.01 | 0.05 | 151 | |
| 170 | 9.02 | 9.00 | 33.946 | 26.293 | 175.3 | 0.427 | 2.67 | 41.1 | 31.3 | 2.02 | 26.8 | 0.00 | 0.00 | 0.04 | 171 | 208 |
| 200 | 8.45 | 8.43 | 34.022 | 26.442 | 161.6 | 0.477 | 2.41 | 36.6 | 36.9 | 2.17 | 29.1 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 229 | 7.97 | 7.95 | 34.046 | 26.533 | 153.3 | 0.523 | 2.24 | 33.7 | 41.8 | 2.28 | 30.7 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.73 | 7.71 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|-------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 32 14.6 N | 123 29.0 W | 18/01/01 | 0203 | UTC | 4202 m | 360 | 12 kn | 020 06 07 | 1 | 1026.5 mb | 13.6 C | 9.8 C | | | | |
| 0 ISL | 15.01 | 15.01 | 33.264 | 24.632 | 329.8 | 0.000 | 5.82 | 101.3 | 3.4 | 0.32 | 0.0 | 0.00 | 0.27 | 0.09 | 0 | |
| 2 | 15.01 | 15.01 | 33.264 | 24.632 | 329.8 | 0.007 | 5.82 | 101.3 | 3.4 | 0.32 | 0.0 | 0.00 | 0.27 | 0.09 | 2 | 220 |
| 10 ISL | 15.01 | 15.01 | 33.263 | 24.632 | 330.1 | 0.033 | 5.82 | 101.3 | 3.3 | 0.32 | 0.0 | 0.00 | 0.26 | 0.10 | 10 | |
| 16 | 15.01 | 15.01 | 33.263 | 24.632 | 330.3 | 0.053 | 5.82 | 101.3 | 3.3 | 0.32 | 0.0 | 0.00 | 0.26 | 0.10 | 16 | 219 |
| 20 ISL | 15.00 | 15.00 | 33.260 | 24.632 | 330.4 | 0.066 | 5.82 | 101.2 | 3.3 | 0.32 | 0.0 | 0.00 | 0.26 | 0.10 | 20 | |
| 30 | 14.94 | 14.94 | 33.245 | 24.634 | 330.5 | 0.099 | 5.83 | 101.3 | 3.3 | 0.32 | 0.0 | 0.00 | 0.28 | 0.10 | 30 | 218 |
| 45 | 14.80 | 14.79 | 33.221 | 24.646 | 329.8 | 0.149 | 5.84 | 101.1 | 3.4 | 0.32 | 0.0 | 0.00 | 0.33 | 0.12 | 45 | 217 |
| 50 ISL | 14.77 | 14.76 | 33.213 | 24.646 | 329.9 | 0.165 | 5.85 | 101.2 | 3.4 | 0.32 | 0.0 | 0.00 | 0.33 | 0.12 | 50 | |
| 56 | 14.74 | 14.73 | 33.206 | 24.648 | 330.0 | 0.185 | 5.86 | 101.3 | 3.3 | 0.33 | 0.0 | 0.01 | 0.34 | 0.12 | 56 | 216 |
| 64 | 14.71 | 14.70 | 33.202 | 24.651 | 329.9 | 0.211 | 5.85 | 101.1 | 3.3 | 0.33 | 0.1 | 0.01 | 0.36 | 0.13 | 64 | 215 |
| 75 | 14.71 | 14.70 | 33.201 | 24.651 | 330.2 | 0.248 | 5.84 | 100.9 | 3.3 | 0.33 | 0.0 | 0.01 | 0.36 | 0.14 | 75 | 214 |
| 86 | 14.71 | 14.70 | 33.203 | 24.653 | 330.4 | 0.284 | 5.84 | 100.9 | 3.3 | 0.33 | 0.1 | 0.01 | 0.34 | 0.13 | 86 | 213 |
| 93 | 14.71 | 14.70 | 33.203 | 24.653 | 330.6 | 0.307 | 5.83 | 100.8 | 3.2 | 0.33 | 0.1 | 0.01 | 0.34 | 0.14 | 93 | 212 |
| 100 ISL | 14.28 | 14.27 | 33.240 | 24.773 | 319.3 | 0.330 | 5.87 | 100.6 | 3.4 | 0.36 | 0.5 | 0.10 | 0.30 | 0.18 | 100 | |
| 107 | 13.62 | 13.60 | 33.288 | 24.946 | 302.9 | 0.352 | 5.91 | 99.9 | 3.6 | 0.42 | 0.9 | 0.19 | 0.25 | 0.22 | 107 | 211 |
| 125 | 11.57 | 11.55 | 33.357 | 25.396 | 260.1 | 0.402 | 5.34 | 86.5 | 6.8 | 0.78 | 7.1 | 0.02 | 0.10 | 0.12 | 126 | 210 |
| 144 | 10.11 | 10.09 | 33.384 | 25.675 | 233.7 | 0.449 | 5.11 | 80.2 | 10.6 | 1.03 | 11.4 | 0.01 | 0.05 | 0.06 | 145 | 209 |
| 150 ISL | 9.92 | 9.90 | 33.430 | 25.743 | 227.3 | 0.463 | 4.92 | 76.9 | 12.3 | 1.12 | 13.0 | 0.01 | 0.04 | 0.05 | 151 | |
| 167 | 9.65 | 9.63 | 33.594 | 25.916 | 211.2 | 0.500 | 4.31 | 67.1 | 17.5 | 1.39 | 17.5 | 0.00 | 0.01 | 0.03 | 168 | 208 |
| 200 | 9.00 | 8.98 | 33.909 | 26.268 | 178.3 | 0.565 | 3.47 | 53.3 | 27.1 | 1.76 | 23.9 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 229 | 8.51 | 8.49 | 33.991 | 26.408 | 165.3 | 0.614 | 2.89 | 43.9 | 33.4 | 2.01 | 27.2 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.12 | 8.09 | 34.016 | 26.487 | 158.0 | 0.648 | 2.72 | 41.0 | 37.2 | 2.11 | 28.7 | 0.00 | | | 251 | |
| 267 | 7.81 | 7.78 | 34.024 | 26.539 | 153.2 | 0.675 | 2.65 | 39.7 | 40.2 | 2.16 | 29.6 | 0.00 | | | 268 | 205 |
| 300 ISL | 7.21 | 7.18 | 34.019 | 26.621 | 145.7 | 0.724 | 2.49 | 36.7 | 46.3 | 2.29 | 31.4 | 0.00 | | | 302 | |
| 318 | 6.93 | 6.90 | 34.015 | 26.657 | 142.4 | 0.750 | 2.37 | 34.7 | 49.6 | 2.36 | 32.4 | 0.00 | | | 320 | 204 |
| 374 | 6.44 | 6.41 | 34.060 | 26.758 | 133.3 | 0.827 | 1.62 | 23.5 | 59.2 | 2.66 | 35.9 | 0.00 | | | 376 | 203 |
| 400 ISL | 6.17 | 6.13 | 34.070 | 26.801 | 129.4 | 0.861 | 1.41 | 20.3 | 63.9 | 2.76 | 37.3 | 0.00 | | | 402 | |
| 436 | 5.82 | 5.78 | 34.086 | 26.858 | 124.2 | 0.907 | 1.17 | 16.7 | 70.5 | 2.88 | 38.9 | 0.00 | | | 439 | 202 |
| 500 ISL | 5.46 | 5.42 | 34.164 | 26.964 | 114.6 | 0.983 | 0.67 | 9.5 | 81.5 | 3.08 | 41.1 | 0.00 | | | 503 | |
| 522 | 5.33 | 5.29 | 34.191 | 27.001 | 111.2 | 1.008 | 0.50 | 7.1 | 85.3 | 3.15 | 41.8 | 0.00 | | | 525 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 31 53.0 N | 124 9.6 W | 17/01/01 | 1959 | UTC | 4209 m | 030 | 15 kn | 010 06 07 | 1 | 1027.9 mb | 13.1 C | 10.5 C | | | | |
| 0 ISL | 15.24 | 15.24 | 33.300 | 24.610 | 331.9 | 0.000 | 5.81 | 101.6 | 3.3 | 0.32 | 0.0 | 0.01 | 0.26 | 0.10 | 0 | |
| 2 A | 15.24 | 15.24 | 33.300 | 24.610 | 332.0 | 0.007 | 5.81 | 101.6 | 3.3 | 0.32 | 0.0 | 0.01 | 0.26 | 0.10 | 2 | 221 |
| 10 ISL | 15.24 | 15.24 | 33.300 | 24.610 | 332.2 | 0.033 | 5.80 | 101.4 | 3.3 | 0.32 | 0.0 | 0.01 | 0.25 | 0.10 | 10 | |
| 18 A | 15.23 | 15.23 | 33.299 | 24.612 | 332.3 | 0.060 | 5.79 | 101.2 | 3.3 | 0.31 | 0.0 | 0.01 | 0.25 | 0.09 | 18 | 220 |
| 20 ISL | 15.23 | 15.23 | 33.299 | 24.612 | 332.3 | 0.066 | 5.79 | 101.2 | 3.3 | 0.31 | 0.0 | 0.01 | 0.25 | 0.09 | 20 | |
| 28 | 15.22 | 15.22 | 33.298 | 24.614 | 332.4 | 0.093 | 5.79 | 101.2 | 3.2 | 0.31 | 0.0 | 0.01 | 0.26 | 0.09 | 28 | 219 |
| 30 ISL | 15.22 | 15.22 | 33.298 | 24.614 | 332.5 | 0.100 | 5.79 | 101.2 | 3.2 | 0.31 | 0.0 | 0.01 | 0.26 | 0.09 | 30 | |
| 38 A | 15.22 | 15.21 | 33.297 | 24.613 | 332.7 | 0.126 | 5.81 | 101.5 | 3.1 | 0.32 | 0.0 | 0.01 | 0.26 | 0.10 | 38 | 218 |
| 49 | 15.22 | 15.21 | 33.299 | 24.615 | 332.9 | 0.163 | 5.79 | 101.2 | 3.1 | 0.31 | 0.0 | 0.01 | 0.26 | 0.10 | 49 | 217 |
| 50 ISL | 15.22 | 15.21 | 33.299 | 24.615 | 332.9 | 0.166 | 5.79 | 101.2 | 3.1 | 0.31 | 0.0 | 0.01 | 0.26 | 0.10 | 50 | |
| 60 A | 15.20 | 15.19 | 33.293 | 24.615 | 333.2 | 0.200 | 5.79 | 101.1 | 3.1 | 0.31 | 0.1 | 0.01 | 0.26 | 0.10 | 60 | 216 |
| 70 | 15.16 | 15.15 | 33.284 | 24.618 | 333.3 | 0.233 | 5.79 | 101.0 | 3.1 | 0.32 | 0.1 | 0.01 | 0.27 | 0.11 | 70 | 215 |
| 75 ISL | 14.96 | 14.95 | 33.255 | 24.639 | 331.4 | 0.249 | 5.79 | 100.6 | 3.2 | 0.34 | 0.2 | 0.07 | 0.24 | 0.12 | 75 | |
| 79 A | 14.70 | 14.69 | 33.238 | 24.682 | 327.4 | 0.263 | 5.79 | 100.1 | 3.4 | 0.36 | 0.4 | 0.12 | 0.21 | 0.13 | 79 | 214 |
| 90 | 13.52 | 13.51 | 33.310 | 24.983 | 298.9 | 0.297 | 5.90 | 99.6 | 3.8 | 0.45 | 1.4 | 0.17 | 0.21 | 0.19 | 90 | 213 |
| 99 | 12.66 | 12.65 | 33.320 | 25.161 | 282.0 | 0.323 | 5.60 | 92.8 | 4.9 | 0.61 | 4.0 | 0.03 | 0.16 | 0.17 | 99 | 212 |
| 100 ISL | 12.60 | 12.59 | 33.320 | 25.173 | 280.9 | 0.326 | 5.60 | 92.7 | 4.9 | 0.61 | 4.0 | 0.03 | 0.16 | 0.17 | 100 | |
| 110 A | 12.13 | 12.12 | 33.332 | 25.272 | 271.6 | 0.354 | 5.71 | 93.6 | 4.8 | 0.54 | 2.8 | 0.06 | 0.12 | 0.13 | 110 | 211 |
| 124 | 11.78 | 11.76 | 33.428 | 25.413 | 258.6 | 0.391 | 5.62 | 91.5 | 4.7 | 0.53 | 3.1 | 0.02 | 0.09 | 0.09 | 125 | 210 |
| 125 ISL | 11.69 | 11.67 | 33.422 | 25.425 | 257.4 | 0.393 | 5.61 | 91.2 | 4.8 | 0.54 | 3.3 | 0.02 | 0.09 | 0.09 | 126 | |
| 144 | 10.01 | 9.99 | 33.337 | 25.655 | 235.5 | 0.440 | 5.42 | 84.9 | 8.8 | 0.89 | 9.1 | 0.01 | 0.05 | 0.07 | 145 | 209 |
| 150 ISL | 9.80 | 9.78 | 33.402 | 25.741 | 227.5 | 0.454 | 5.12 | 79.8 | 11.4 | 1.04 | 11.7 | 0.01 | 0.04 | 0.06 | 151 | |
| 169 | 9.51 | 9.49 | 33.673 | 26.000 | 203.2 | 0.495 | 4.04 | 62.7 | 20.1 | 1.51 | 19.4 | 0.00 | 0.01 | 0.03 | 170 | 208 |
| 198 | 8.98 | 8.96 | 33.898 | 26.262 | 178.8 | 0.550 | 3.24 | 49.8 | 28.7 | 1.87 | 25.1 | 0.00 | 0.00 | 0.02 | 199 | 207 |
| 200 ISL | 8.94 | 8.92 | 33.908 | 26.276 | 177.4 | 0.554 | 3.20 | 49.1 | 29.2 | 1.89 | 25.3 | 0.00 | | | 201 | |
| 230 | 8.42 | 8.40 | 34.003 | 26.432 | 163.1 | 0.605 | 2.78 | 42.2 | 35.0 | 2.07 | 27.9 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.14 | 8.11 | 34.031 | 26.496 | 157.2 | 0.637 | 2.59 | 39.1 | 38.3 | 2.17 | 29.2 | 0.00 | | | 251 | |
| 270 | 7.8 | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 33

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|--------|------|
| 33 53.2 N | 118 29.4 W | 14/01/01 | 2351 | UTC | 54 m | 240 | 06 kn | 240 02 05 | 0 | 1019.3 mb | 16.5 C | 12.5 C | 06m | | 0/8 | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.41 | 14.41 | 33.215 | 24.723 | 321.2 | 0.000 | 6.06 | 104.1 | 4.3 | 0.43 | 1.0 | 0.18 | 2.65 | 0.56 | 0 | |
| 2 | 14.41 | 14.41 | 33.215 | 24.723 | 321.2 | 0.006 | 6.06 | 104.1 | 4.3 | 0.43 | 1.0 | 0.18 | 2.65 | 0.56 | 2 207 | |
| 5 | 14.35 | 14.35 | 33.237 | 24.753 | 318.5 | 0.016 | 5.98 | 102.6 | 4.2 | 0.43 | 1.1 | 0.19 | 2.19 | 0.61 | 5 206 | |
| 10 | 14.29 | 14.29 | 33.336 | 24.842 | 310.1 | 0.032 | 5.85 | 100.3 | 4.2 | 0.45 | 1.2 | 0.26 | 1.46 | 0.46 | 10 205 | |
| 20 | 14.27 | 14.27 | 33.395 | 24.892 | 305.6 | 0.063 | 5.70 | 97.8 | 4.6 | 0.53 | 1.4 | 0.32 | 0.71 | 0.39 | 20 204 | |
| 30 | 14.29 | 14.29 | 33.428 | 24.913 | 303.9 | 0.093 | 5.62 | 96.4 | 4.8 | 0.55 | 1.4 | 0.33 | 0.53 | 0.35 | 30 203 | |
| 40 | 14.29 | 14.28 | 33.441 | 24.924 | 303.2 | 0.123 | 5.68 | 97.5 | 4.6 | 0.53 | 1.5 | 0.32 | 0.60 | 0.37 | 40 202 | |
| 50 | 14.24 | 14.23 | 33.469 | 24.956 | 300.4 | 0.154 | 5.51 | 94.5 | 4.8 | 0.56 | 1.8 | 0.34 | 0.44 | 0.34 | 50 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|---------|------|
| 33 49.8 N | 118 37.5 W | 15/01/01 | 0216 | UTC | 543 m | 280 | 06 kn | | | 1019.0 mb | 14.7 C | 12.1 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.36 | 14.36 | 33.121 | 24.661 | 327.1 | 0.000 | 6.04 | 103.6 | 5.0 | 0.46 | 1.2 | 0.15 | 2.40 | 0.42 | 0 | |
| 2 | 14.36 | 14.36 | 33.121 | 24.661 | 327.1 | 0.007 | 6.04 | 103.6 | 5.0 | 0.46 | 1.2 | 0.15 | 2.40 | 0.42 | 2 220 | |
| 10 | 14.53 | 14.53 | 33.346 | 24.799 | 314.2 | 0.032 | 5.74 | 98.9 | 4.8 | 0.45 | 0.7 | 0.11 | 0.77 | 0.36 | 10 219 | |
| 19 | 14.63 | 14.63 | 33.439 | 24.850 | 309.7 | 0.060 | 5.70 | 98.5 | 4.5 | 0.43 | 0.6 | 0.09 | 0.43 | 0.27 | 19 218 | |
| 20 ISL | 14.63 | 14.63 | 33.442 | 24.852 | 309.5 | 0.063 | 5.70 | 98.5 | 4.5 | 0.43 | 0.6 | 0.09 | 0.42 | 0.27 | 20 | |
| 30 | 14.64 | 14.64 | 33.466 | 24.869 | 308.2 | 0.094 | 5.76 | 99.6 | 4.3 | 0.41 | 0.6 | 0.08 | 0.35 | 0.25 | 30 217 | |
| 40 | 14.72 | 14.71 | 33.526 | 24.898 | 305.7 | 0.125 | 5.81 | 100.6 | 3.5 | 0.33 | 0.3 | 0.04 | 0.47 | 0.28 | 40 216 | |
| 50 | 14.56 | 14.55 | 33.535 | 24.940 | 302.0 | 0.155 | 5.73 | 98.9 | 4.0 | 0.38 | 0.7 | 0.10 | 0.36 | 0.24 | 50 215 | |
| 59 | 14.03 | 14.02 | 33.538 | 25.054 | 291.4 | 0.182 | 5.48 | 93.6 | 5.5 | 0.54 | 2.3 | 0.30 | 0.34 | 0.28 | 59 214 | |
| 70 | 13.71 | 13.70 | 33.544 | 25.125 | 284.9 | 0.214 | 5.40 | 91.6 | 6.0 | 0.59 | 3.0 | 0.38 | 0.38 | 0.32 | 70 213 | |
| 75 ISL | 13.51 | 13.50 | 33.538 | 25.161 | 281.6 | 0.228 | 5.31 | 89.7 | 6.3 | 0.63 | 3.8 | 0.35 | 0.37 | 0.31 | 75 | |
| 84 | 13.00 | 12.99 | 33.533 | 25.259 | 272.4 | 0.253 | 5.01 | 83.8 | 7.8 | 0.78 | 6.3 | 0.29 | 0.31 | 0.30 | 84 212 | |
| 99 | 11.51 | 11.50 | 33.605 | 25.600 | 240.2 | 0.291 | 4.01 | 65.0 | 14.4 | 1.28 | 14.4 | 0.03 | 0.10 | 0.17 | 99 211 | |
| 100 ISL | 11.44 | 11.43 | 33.620 | 25.624 | 237.8 | 0.294 | 3.93 | 63.6 | 15.0 | 1.32 | 14.9 | 0.03 | 0.09 | 0.16 | 100 | |
| 119 | 10.48 | 10.47 | 33.900 | 26.014 | 201.1 | 0.335 | 2.65 | 42.1 | 25.5 | 1.89 | 22.7 | 0.00 | 0.01 | 0.06 | 120 210 | |
| 125 ISL | 10.36 | 10.35 | 33.930 | 26.058 | 197.0 | 0.347 | 2.59 | 41.0 | 26.1 | 1.92 | 23.2 | 0.00 | 0.01 | 0.06 | 126 | |
| 139 | 10.21 | 10.19 | 33.957 | 26.105 | 192.9 | 0.375 | 2.45 | 38.7 | 27.5 | 1.98 | 24.2 | 0.00 | 0.01 | 0.05 | 140 209 | |
| 150 ISL | 10.10 | 10.08 | 33.987 | 26.147 | 189.0 | 0.396 | 2.40 | 37.8 | 28.3 | 2.02 | 24.8 | 0.00 | 0.01 | 0.05 | 151 | |
| 168 | 9.89 | 9.87 | 34.033 | 26.219 | 182.6 | 0.429 | 2.33 | 36.5 | 29.9 | 2.09 | 25.7 | 0.01 | 0.01 | 0.05 | 169 208 | |
| 199 | 9.20 | 9.18 | 34.104 | 26.388 | 166.9 | 0.483 | 2.12 | 32.8 | 34.5 | 2.20 | 27.9 | 0.00 | 0.00 | 0.04 | 200 207 | |
| 200 ISL | 9.19 | 9.17 | 34.105 | 26.391 | 166.7 | 0.485 | 2.12 | 32.8 | 34.6 | 2.20 | 27.9 | 0.00 | | | 201 | |
| 228 | 8.92 | 8.90 | 34.128 | 26.452 | 161.4 | 0.531 | 2.00 | 30.7 | 36.9 | 2.28 | 28.9 | 0.00 | | | 229 206 | |
| 250 ISL | 8.56 | 8.53 | 34.154 | 26.529 | 154.3 | 0.566 | 1.77 | 27.0 | 40.8 | 2.39 | 30.3 | 0.00 | | | 251 | |
| 268 | 8.25 | 8.22 | 34.176 | 26.594 | 148.4 | 0.593 | 1.56 | 23.6 | 44.4 | 2.49 | 31.5 | 0.00 | | | 270 205 | |
| 300 ISL | 7.85 | 7.82 | 34.203 | 26.675 | 141.1 | 0.639 | 1.24 | 18.6 | 50.1 | 2.65 | 33.3 | 0.00 | | | 302 | |
| 318 | 7.67 | 7.64 | 34.214 | 26.710 | 137.9 | 0.664 | 1.09 | 16.3 | 52.8 | 2.72 | 34.1 | 0.00 | | | 320 204 | |
| 376 | 7.37 | 7.33 | 34.234 | 26.769 | 135.1 | 0.743 | 0.89 | 13.2 | 57.3 | 2.82 | 35.4 | 0.00 | | | 378 203 | |
| 400 ISL | 7.24 | 7.20 | 34.246 | 26.797 | 130.8 | 0.774 | 0.78 | 11.5 | 59.7 | 2.88 | 36.0 | 0.00 | | | 403 | |
| 436 | 7.03 | 6.99 | 34.265 | 26.842 | 127.0 | 0.821 | 0.62 | 9.1 | 63.6 | 2.96 | 36.8 | 0.00 | | | 439 202 | |
| 500 ISL | 6.65 | 6.60 | 34.301 | 26.922 | 120.0 | 0.900 | 0.42 | 6.1 | 71.1 | 3.08 | 38.1 | 0.01 | | | 503 | |
| 515 | 6.56 | 6.51 | 34.310 | 26.941 | 118.3 | 0.918 | 0.37 | 5.4 | 72.9 | 3.11 | 38.4 | 0.01 | | | 519 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 40

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 33 39.3 N | 118 58.3 W | 15/01/01 | 0617 | UTC | 726 m | 230 | 01 kn | | | 1018.9 mb | 13.3 C | 11.0 C | | | | |
| 0 ISL | 13.82 | 13.82 | 33.481 | 25.051 | 289.9 | 0.000 | 5.88 | 100.0 | 3.7 | 0.42 | 1.5 | 0.06 | 0.98 | 0.34 | 0 | |
| 3 | 13.82 | 13.82 | 33.481 | 25.051 | 290.0 | 0.009 | 5.88 | 100.0 | 3.7 | 0.42 | 1.5 | 0.06 | 0.98 | 0.34 | 3 | 220 |
| 10 | 13.78 | 13.78 | 33.479 | 25.058 | 289.5 | 0.029 | 5.90 | 100.2 | 4.1 | 0.41 | 1.5 | 0.06 | 0.96 | 0.29 | 10 | 219 |
| 20 | 13.49 | 13.49 | 33.477 | 25.116 | 284.3 | 0.058 | 5.81 | 98.1 | 3.9 | 0.47 | 2.4 | 0.08 | 1.39 | 0.47 | 20 | 218 |
| 30 | 13.20 | 13.20 | 33.473 | 25.172 | 279.3 | 0.086 | 5.60 | 94.0 | 5.1 | 0.56 | 3.7 | 0.11 | 1.10 | 0.41 | 30 | 217 |
| 40 | 13.05 | 13.04 | 33.473 | 25.202 | 276.6 | 0.114 | 5.60 | 93.7 | 5.3 | 0.58 | 4.0 | 0.11 | 0.91 | 0.39 | 40 | 216 |
| 50 | 12.80 | 12.79 | 33.470 | 25.249 | 272.4 | 0.141 | 5.43 | 90.4 | 6.4 | 0.66 | 5.4 | 0.11 | 0.59 | 0.31 | 50 | 215 |
| 60 | 11.81 | 11.80 | 33.476 | 25.443 | 254.1 | 0.167 | 4.98 | 81.2 | 9.5 | 0.91 | 9.2 | 0.06 | 0.26 | 0.20 | 60 | 214 |
| 70 | 11.13 | 11.12 | 33.515 | 25.598 | 239.6 | 0.192 | 4.62 | 74.2 | 12.7 | 1.12 | 12.5 | 0.03 | 0.14 | 0.16 | 70 | 213 |
| 75 ISL | 10.82 | 10.81 | 33.550 | 25.680 | 231.8 | 0.204 | 4.40 | 70.2 | 14.6 | 1.23 | 14.2 | 0.02 | 0.10 | 0.14 | 75 | |
| 84 | 10.35 | 10.34 | 33.621 | 25.818 | 218.9 | 0.224 | 4.02 | 63.5 | 17.8 | 1.41 | 17.1 | 0.02 | 0.06 | 0.11 | 84 | 212 |
| 99 | 9.97 | 9.96 | 33.720 | 25.960 | 205.7 | 0.256 | 3.57 | 56.0 | 21.8 | 1.60 | 20.1 | 0.01 | 0.03 | 0.08 | 100 | 211 |
| 100 ISL | 9.96 | 9.95 | 33.725 | 25.965 | 205.1 | 0.258 | 3.55 | 55.7 | 22.0 | 1.61 | 20.2 | 0.01 | 0.03 | 0.08 | 101 | |
| 119 | 9.73 | 9.72 | 33.813 | 26.073 | 195.3 | 0.296 | 3.19 | 49.8 | 25.1 | 1.77 | 22.6 | 0.01 | 0.03 | 0.08 | 120 | 210 |
| 125 ISL | 9.62 | 9.61 | 33.858 | 26.126 | 190.3 | 0.308 | 3.01 | 46.9 | 26.8 | 1.85 | 23.6 | 0.01 | 0.02 | 0.07 | 126 | |
| 139 | 9.35 | 9.33 | 33.961 | 26.251 | 178.7 | 0.334 | 2.60 | 40.3 | 30.9 | 2.02 | 25.9 | 0.01 | 0.01 | 0.06 | 140 | 209 |
| 150 ISL | 9.21 | 9.19 | 34.004 | 26.308 | 173.6 | 0.353 | 2.43 | 37.5 | 32.7 | 2.10 | 26.9 | 0.01 | 0.01 | 0.06 | 151 | |
| 169 | 9.03 | 9.01 | 34.047 | 26.370 | 168.0 | 0.385 | 2.25 | 34.6 | 34.8 | 2.18 | 27.9 | 0.01 | 0.01 | 0.05 | 170 | 208 |
| 199 | 8.77 | 8.75 | 34.095 | 26.449 | 161.0 | 0.435 | 2.00 | 30.6 | 38.2 | 2.29 | 29.1 | 0.01 | 0.01 | 0.06 | 200 | 207 |
| 200 ISL | 8.76 | 8.74 | 34.097 | 26.453 | 160.7 | 0.436 | 1.99 | 30.4 | 38.3 | 2.29 | 29.1 | 0.01 | | | 201 | |
| 229 | 8.56 | 8.54 | 34.138 | 26.516 | 155.2 | 0.482 | 1.77 | 27.0 | 40.9 | 2.38 | 30.3 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.33 | 8.30 | 34.157 | 26.566 | 150.7 | 0.514 | 1.63 | 24.7 | 43.5 | 2.45 | 31.2 | 0.00 | | | 251 | |
| 269 | 8.11 | 8.08 | 34.171 | 26.611 | 146.7 | 0.542 | 1.51 | 22.8 | 46.1 | 2.52 | 32.0 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.84 | 7.81 | 34.195 | 26.670 | 141.5 | 0.587 | 1.26 | 18.9 | 50.2 | 2.64 | 33.3 | 0.00 | | | 302 | |
| 318 | 7.70 | 7.67 | 34.207 | 26.700 | 138.9 | 0.612 | 1.12 | 16.7 | 52.6 | 2.70 | 34.0 | 0.00 | | | 320 | 204 |
| 379 | 7.22 | 7.18 | 34.241 | 26.796 | 130.5 | 0.695 | 0.78 | 11.5 | 60.4 | 2.88 | 35.9 | 0.00 | | | 381 | 203 |
| 400 ISL | 7.06 | 7.02 | 34.255 | 26.829 | 127.6 | 0.722 | 0.67 | 9.9 | 63.2 | 2.94 | 36.6 | 0.00 | | | 403 | |
| 436 | 6.80 | 6.76 | 34.280 | 26.885 | 122.7 | 0.767 | 0.51 | 7.5 | 67.9 | 3.02 | 37.7 | 0.00 | | | 439 | 202 |
| 500 ISL | 6.37 | 6.32 | 34.313 | 26.968 | 115.3 | 0.843 | 0.38 | 5.5 | 76.0 | 3.13 | 39.0 | 0.00 | | | 503 | |
| 514 | 6.28 | 6.23 | 34.321 | 26.986 | 113.7 | 0.859 | 0.35 | 5.1 | 77.8 | 3.16 | 39.3 | 0.00 | | | 518 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|-----------|--------|--------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 33 29.7 N | 119 19.0 W | 15/01/01 | 1018 | UTC | 1648 m | 330 | 13 kn | | | 1018.1 mb | 13.6 C | 10.0 C | | | | |
| 0 ISL | 13.83 | 13.83 | 33.487 | 25.054 | 289.6 | 0.000 | 5.86 | 99.7 | 3.6 | 0.39 | 1.4 | 0.06 | 0.78 | 0.28 | 0 | |
| 2 | 13.83 | 13.83 | 33.487 | 25.054 | 289.7 | 0.006 | 5.86 | 99.7 | 3.6 | 0.39 | 1.4 | 0.06 | 0.78 | 0.28 | 2 | 220 |
| 10 | 13.82 | 13.82 | 33.487 | 25.056 | 289.7 | 0.029 | 5.86 | 99.6 | 3.8 | 0.39 | 1.4 | 0.06 | 0.80 | 0.26 | 10 | 219 |
| 20 | 13.69 | 13.69 | 33.485 | 25.082 | 287.6 | 0.058 | 5.84 | 99.0 | 3.8 | 0.42 | 1.7 | 0.06 | 1.20 | 0.40 | 20 | 218 |
| 30 | 13.67 | 13.67 | 33.485 | 25.086 | 287.4 | 0.087 | 5.85 | 99.2 | 3.8 | 0.41 | 1.7 | 0.06 | 1.17 | 0.37 | 30 | 217 |
| 40 | 13.50 | 13.49 | 33.487 | 25.122 | 284.2 | 0.115 | 5.79 | 97.8 | 3.8 | 0.44 | 2.2 | 0.07 | 1.11 | 0.39 | 40 | 216 |
| 49 | 12.55 | 12.54 | 33.489 | 25.312 | 266.3 | 0.140 | 5.25 | 86.9 | 7.2 | 0.73 | 6.4 | 0.11 | 0.43 | 0.25 | 49 | 215 |
| 50 ISL | 12.39 | 12.38 | 33.491 | 25.345 | 263.2 | 0.143 | 5.17 | 85.3 | 7.8 | 0.77 | 7.1 | 0.11 | 0.39 | 0.24 | 50 | |
| 60 | 11.00 | 10.99 | 33.536 | 25.637 | 235.6 | 0.168 | 4.49 | 71.9 | 13.4 | 1.17 | 13.3 | 0.05 | 0.16 | 0.17 | 60 | 214 |
| 70 | 10.70 | 10.69 | 33.607 | 25.746 | 225.4 | 0.191 | 4.16 | 66.3 | 16.3 | 1.31 | 15.6 | 0.03 | 0.09 | 0.12 | 70 | 213 |
| 75 ISL | 10.53 | 10.52 | 33.638 | 25.800 | 220.4 | 0.202 | 4.00 | 63.5 | 17.7 | 1.38 | 16.8 | 0.03 | 0.07 | 0.12 | 75 | |
| 85 | 10.20 | 10.19 | 33.691 | 25.898 | 211.3 | 0.223 | 3.72 | 58.6 | 20.1 | 1.52 | 18.8 | 0.03 | 0.06 | 0.13 | 85 | 212 |
| 99 | 9.90 | 9.89 | 33.748 | 25.993 | 202.4 | 0.252 | 3.47 | 54.3 | 22.6 | 1.64 | 20.7 | 0.02 | 0.04 | 0.10 | 100 | 211 |
| 100 ISL | 9.88 | 9.87 | 33.752 | 26.000 | 201.9 | 0.254 | 3.45 | 54.0 | 22.8 | 1.65 | 20.8 | 0.02 | 0.04 | 0.10 | 101 | |
| 119 | 9.60 | 9.59 | 33.836 | 26.112 | 191.6 | 0.292 | 3.12 | 48.6 | 26.2 | 1.80 | 23.1 | 0.03 | 0.02 | 0.09 | 120 | 210 |
| 125 ISL | 9.55 | 9.54 | 33.859 | 26.139 | 189.2 | 0.303 | 3.02 | 47.0 | 27.0 | 1.84 | 23.6 | 0.03 | 0.02 | 0.08 | 126 | |
| 139 | 9.45 | 9.43 | 33.912 | 26.197 | 183.9 | 0.329 | 2.80 | 43.5 | 28.8 | 1.92 | 24.8 | 0.02 | 0.01 | 0.07 | 140 | 209 |
| 150 ISL | 9.34 | 9.32 | 33.962 | 26.254 | 178.7 | 0.349 | 2.60 | 40.3 | 30.5 | 2.00 | 25.8 | 0.02 | 0.01 | 0.06 | 151 | |
| 169 | 9.14 | 9.12 | 34.042 | 26.349 | 170.0 | 0.382 | 2.28 | 35.2 | 33.5 | 2.14 | 27.5 | 0.01 | 0.01 | 0.06 | 170 | 208 |
| 199 | 8.88 | 8.86 | 34.108 | 26.442 | 161.7 | 0.432 | 1.94 | 29.8 | 37.5 | 2.28 | 29.2 | 0.01 | 0.01 | 0.05 | 200 | 207 |
| 200 ISL | 8.87 | 8.85 | 34.110 | 26.445 | 161.4 | 0.434 | 1.93 | 29.6 | 37.6 | 2.29 | 29.5 | 0.01 | | | 201 | |
| 228 | 8.58 | 8.56 | 34.154 | 26.526 | 154.3 | 0.478 | 1.66 | 25.3 | 41.3 | 2.42 | 30.6 | 0.00 | | | 229 | 206 |
| 250 ISL | 8.40 | 8.37 | 34.178 | 26.572 | 150.2 | 0.511 | 1.48 | 22.5 | 43.9 | 2.50 | 31.5 | 0.00 | | | 251 | |
| 270 | 8.24 | 8.21 | 34.195 | 26.610 | 146.9 | 0.541 | 1.33 | 20.1 | 46.3 | 2.57 | 32.2 | 0.01 | | | 272 | 205 |
| 300 ISL | 7.92 | 7.89 | 34.219 | 26.677 | 140.9 | 0.584 | 1.09 | 16.4 | 50.9 | 2.69 | 33.6 | 0.00 | | | 302 | |
| 318 | 7.72 | 7.69 | 34.231 | 26.716 | 137.4 | 0.609 | 0.97 | 14.5 | 53.7 | 2.75 | 34.4 | 0.00 | | | 320 | 204 |
| 382 | 7.22 | 7.18 | 34.248 | 26.801 | 130.0 | 0.695 | 0.74 | 10.9 | 60.6 | 2.89 | 36.1 | 0.00 | | | 384 | 203 |
| 400 ISL | 7.12 | 7.08 | 34.259 | 26.824 | 128.1 | 0.718 | 0.67 | 9.9 | 62.6 | 2.93 | 36.5 | 0.00 | | | 403 | |
| 440 | 6.93 | 6.89 | 34.284 | 26.870 | 124.2 | 0.769 | 0.52 | 7.6 | 66.8 | 3.01 | 37.3 | 0.00 | | | 443 | 202 |
| 500 ISL | 6.65 | 6.60 | 34.301 | 26.922 | 120.0 | 0.842 | 0.41 | 6.0 | 71.7 | 3.08 | 38.2 | 0.00 | | | 503 | |
| 519 | 6.56 | 6.51 | 34.307 | 26.939 | 118.6</td | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|-----------|-----------|------|-----------|--------|-------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 | 9.1 N | 120 0.6 W | 15/01/01 | 1838 | UTC | 1206 m | 010 24 kn | 310 05 07 | 1 | 1019.1 mb | 12.0 C | 9.8 C | 15m | 2/8 | AC | |
| 0 | ISL | 13.90 | 13.90 | 33.512 | 25.059 | 289.2 | 0.000 | 5.80 | 98.8 | 4.0 | 0.42 | 1.6 | 0.08 | 0.60 | 0.29 | 0 |
| 2 | A | 13.90 | 13.90 | 33.512 | 25.059 | 289.2 | 0.006 | 5.80 | 98.8 | 4.0 | 0.42 | 1.6 | 0.08 | 0.60 | 0.29 | 2 221 |
| 9 | A | 13.90 | 13.90 | 33.513 | 25.060 | 289.3 | 0.026 | 5.81 | 99.0 | 3.9 | 0.41 | 1.6 | 0.08 | 0.59 | 0.31 | 9 220 |
| 10 | ISL | 13.90 | 13.90 | 33.513 | 25.060 | 289.4 | 0.029 | 5.81 | 99.0 | 3.9 | 0.41 | 1.6 | 0.08 | 0.59 | 0.31 | 10 |
| 19 | A | 13.89 | 13.89 | 33.512 | 25.061 | 289.5 | 0.055 | 5.77 | 98.3 | 3.8 | 0.41 | 1.5 | 0.08 | 0.60 | 0.31 | 19 219 |
| 20 | ISL | 13.89 | 13.89 | 33.512 | 25.061 | 289.5 | 0.058 | 5.77 | 98.3 | 3.8 | 0.41 | 1.5 | 0.08 | 0.60 | 0.31 | 20 |
| 30 | ISL | 13.90 | 13.90 | 33.513 | 25.060 | 289.9 | 0.087 | 5.79 | 98.6 | 3.7 | 0.41 | 1.5 | 0.08 | 0.59 | 0.34 | 30 |
| 32 | A | 13.90 | 13.90 | 33.513 | 25.060 | 289.9 | 0.093 | 5.79 | 98.6 | 3.7 | 0.41 | 1.5 | 0.08 | 0.59 | 0.34 | 32 218 |
| 40 | A | 13.88 | 13.87 | 33.511 | 25.063 | 289.9 | 0.116 | 5.79 | 98.6 | 3.8 | 0.42 | 1.6 | 0.08 | 0.58 | 0.27 | 40 217 |
| 48 | | 13.82 | 13.81 | 33.512 | 25.077 | 288.8 | 0.139 | 5.74 | 97.6 | 4.0 | 0.44 | 1.9 | 0.08 | 0.51 | 0.30 | 48 216 |
| 50 | ISL | 13.73 | 13.72 | 33.513 | 25.096 | 287.1 | 0.145 | 5.69 | 96.6 | 4.3 | 0.47 | 2.4 | 0.08 | 0.49 | 0.28 | 50 |
| 56 | A | 13.30 | 13.29 | 33.518 | 25.187 | 278.5 | 0.162 | 5.44 | 91.5 | 5.9 | 0.60 | 4.5 | 0.08 | 0.39 | 0.22 | 56 215 |
| 63 | | 12.49 | 12.48 | 33.529 | 25.355 | 262.6 | 0.181 | 5.02 | 83.0 | 8.7 | 0.82 | 7.9 | 0.08 | 0.23 | 0.20 | 63 214 |
| 70 | | 12.09 | 12.08 | 33.537 | 25.438 | 254.9 | 0.199 | 4.84 | 79.4 | 10.2 | 0.93 | 9.4 | 0.06 | 0.18 | 0.16 | 70 213 |
| 75 | ISL | 11.90 | 11.89 | 33.538 | 25.475 | 251.5 | 0.211 | 4.77 | 77.9 | 10.8 | 0.97 | 10.1 | 0.05 | 0.16 | 0.15 | 75 |
| 85 | | 11.45 | 11.44 | 33.571 | 25.584 | 241.3 | 0.236 | 4.50 | 72.8 | 13.0 | 1.11 | 12.3 | 0.04 | 0.13 | 0.14 | 85 212 |
| 99 | | 10.27 | 10.26 | 33.763 | 25.943 | 207.4 | 0.267 | 3.41 | 53.9 | 21.6 | 1.63 | 20.1 | 0.01 | 0.03 | 0.07 | 99 211 |
| 100 | ISL | 10.26 | 10.25 | 33.768 | 25.948 | 206.9 | 0.270 | 3.37 | 53.2 | 21.9 | 1.65 | 20.2 | 0.01 | 0.03 | 0.07 | 100 |
| 120 | | 10.11 | 10.10 | 33.864 | 26.049 | 197.7 | 0.310 | 2.97 | 46.8 | 24.8 | 1.80 | 22.4 | 0.01 | 0.02 | 0.08 | 121 210 |
| 125 | ISL | 10.02 | 10.01 | 33.898 | 26.091 | 193.8 | 0.320 | 2.84 | 44.6 | 26.1 | 1.86 | 23.2 | 0.01 | 0.02 | 0.08 | 126 |
| 139 | | 9.72 | 9.70 | 33.986 | 26.210 | 182.7 | 0.346 | 2.52 | 39.4 | 29.7 | 2.02 | 25.2 | 0.01 | 0.01 | 0.06 | 140 209 |
| 150 | ISL | 9.42 | 9.40 | 34.020 | 26.286 | 175.7 | 0.366 | 2.47 | 38.3 | 31.9 | 2.09 | 26.3 | 0.01 | 0.01 | 0.05 | 151 |
| 170 | | 8.91 | 8.89 | 34.052 | 26.393 | 165.8 | 0.400 | 2.37 | 36.4 | 35.2 | 2.16 | 27.6 | 0.00 | 0.00 | 0.05 | 171 208 |
| 199 | | 8.51 | 8.49 | 34.085 | 26.482 | 157.8 | 0.447 | 2.16 | 32.9 | 39.2 | 2.27 | 29.1 | 0.00 | 0.00 | 0.04 | 200 207 |
| 200 | ISL | 8.50 | 8.48 | 34.086 | 26.484 | 157.6 | 0.448 | 2.15 | 32.7 | 39.3 | 2.27 | 29.2 | 0.00 | | | 201 |
| 229 | | 8.22 | 8.20 | 34.124 | 26.557 | 151.1 | 0.493 | 1.87 | 28.3 | 43.2 | 2.40 | 30.6 | 0.01 | | | 230 206 |
| 250 | ISL | 8.02 | 7.99 | 34.138 | 26.598 | 147.5 | 0.525 | 1.74 | 26.2 | 45.6 | 2.46 | 31.4 | 0.01 | | | 251 |
| 268 | | 7.84 | 7.81 | 34.149 | 26.633 | 144.4 | 0.551 | 1.62 | 24.3 | 47.9 | 2.52 | 32.1 | 0.01 | | | 270 205 |
| 300 | ISL | 7.47 | 7.44 | 34.182 | 26.713 | 137.2 | 0.596 | 1.27 | 18.9 | 53.8 | 2.68 | 33.9 | 0.00 | | | 302 |
| 317 | | 7.28 | 7.25 | 34.200 | 26.754 | 133.5 | 0.619 | 1.08 | 16.0 | 57.0 | 2.76 | 34.8 | 0.00 | | | 319 204 |
| 378 | | 6.94 | 6.90 | 34.240 | 26.833 | 126.7 | 0.698 | 0.75 | 11.0 | 63.9 | 2.92 | 36.6 | 0.00 | | | 380 203 |
| 400 | ISL | 6.77 | 6.73 | 34.244 | 26.860 | 124.4 | 0.726 | 0.68 | 9.9 | 66.4 | 2.97 | 37.2 | 0.00 | | | 403 |
| 440 | | 6.47 | 6.43 | 34.251 | 26.906 | 120.4 | 0.775 | 0.57 | 8.3 | 70.9 | 3.04 | 38.3 | 0.00 | | | 443 202 |
| 500 | ISL | 6.12 | 6.08 | 34.283 | 26.977 | 114.2 | 0.845 | 0.41 | 5.9 | 77.3 | 3.14 | 39.6 | 0.00 | | | 503 |
| 514 | | 6.04 | 5.99 | 34.291 | 26.993 | 112.7 | 0.861 | 0.37 | 5.3 | 78.8 | 3.16 | 39.9 | 0.00 | | | 518 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|-----------|-----------|-------|-----------|--------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 | 59.7 N | 120 20.9 W | 15/01/01 | 2257 | UTC | 715 m | 310 25 kn | 300 06 08 | 1 | 1017.5 mb | 12.0 C | 10.0 C | 11m | 4/8 | AC | |
| 0 | ISL | 13.94 | 13.94 | 33.503 | 25.043 | 290.6 | 0.000 | 5.87 | 100.1 | 4.4 | 0.37 | 1.0 | 0.04 | 0.82 | 0.32 | 0 |
| 2 | | 13.94 | 13.94 | 33.503 | 25.044 | 290.7 | 0.006 | 5.87 | 100.1 | 4.4 | 0.37 | 1.0 | 0.04 | 0.82 | 0.32 | 2 220 |
| 10 | | 13.94 | 13.94 | 33.505 | 25.045 | 290.7 | 0.029 | 5.88 | 100.2 | 3.9 | 0.37 | 1.0 | 0.04 | 0.78 | 0.32 | 10 219 |
| 20 | | 13.94 | 13.94 | 33.503 | 25.044 | 291.2 | 0.058 | 5.87 | 100.1 | 3.7 | 0.37 | 1.0 | 0.04 | 0.75 | 0.29 | 20 218 |
| 30 | ISL | 13.93 | 13.93 | 33.504 | 25.047 | 291.1 | 0.087 | 5.87 | 100.0 | 3.7 | 0.37 | 1.1 | 0.04 | 0.76 | 0.30 | 30 |
| 31 | | 13.93 | 13.93 | 33.504 | 25.047 | 291.2 | 0.090 | 5.87 | 100.0 | 3.7 | 0.37 | 1.1 | 0.04 | 0.76 | 0.30 | 31 217 |
| 40 | | 13.93 | 13.92 | 33.505 | 25.048 | 291.3 | 0.116 | 5.85 | 99.7 | 3.6 | 0.37 | 1.1 | 0.04 | 0.75 | 0.29 | 40 216 |
| 50 | | 13.87 | 13.86 | 33.502 | 25.059 | 290.6 | 0.146 | 5.86 | 99.7 | 3.7 | 0.38 | 1.1 | 0.05 | 0.82 | 0.34 | 50 215 |
| 60 | | 13.81 | 13.80 | 33.499 | 25.069 | 289.9 | 0.175 | 5.90 | 100.3 | 3.7 | 0.39 | 1.3 | 0.05 | 0.68 | 0.35 | 60 214 |
| 70 | | 12.55 | 12.54 | 33.453 | 25.285 | 269.5 | 0.202 | 5.24 | 86.7 | 6.7 | 0.74 | 6.5 | 0.05 | 0.26 | 0.23 | 70 213 |
| 75 | ISL | 12.10 | 12.09 | 33.451 | 25.370 | 261.5 | 0.216 | 5.04 | 82.6 | 8.0 | 0.86 | 8.3 | 0.04 | 0.23 | 0.20 | 75 |
| 85 | | 11.37 | 11.36 | 33.478 | 25.526 | 246.8 | 0.241 | 4.72 | 76.2 | 10.7 | 1.05 | 11.6 | 0.02 | 0.17 | 0.17 | 85 212 |
| 99 | | 10.44 | 10.43 | 33.575 | 25.767 | 224.1 | 0.274 | 4.13 | 65.4 | 16.3 | 1.38 | 16.9 | 0.01 | 0.07 | 0.09 | 99 211 |
| 100 | ISL | 10.40 | 10.39 | 33.583 | 25.780 | 222.8 | 0.276 | 4.09 | 64.7 | 16.7 | 1.40 | 17.2 | 0.01 | 0.07 | 0.09 | 100 |
| 119 | | 9.85 | 9.84 | 33.731 | 25.989 | 203.3 | 0.317 | 3.45 | 54.0 | 22.3 | 1.68 | 21.7 | 0.01 | 0.02 | 0.05 | 120 210 |
| 125 | ISL | 9.72 | 9.71 | 33.765 | 26.037 | 198.8 | 0.329 | 3.33 | 52.0 | 23.6 | 1.74 | 22.6 | 0.01 | 0.02 | 0.05 | 126 |
| 140 | | 9.42 | 9.40 | 33.836 | 26.142 | 189.1 | 0.358 | 3.11 | 48.2 | 26.2 | 1.84 | 24.3 | 0.00 | 0.01 | 0.04 | 141 209 |
| 150 | ISL | 9.24 | 9.22 | 33.882 | 26.207 | 183.1 | 0.377 | 3.00 | 46.3 | 27.8 | 1.89 | 25.2 | 0.00 | 0.01 | 0.04 | 151 |
| 170 | | 8.87 | 8.85 | 33.960 | 26.327 | 172.0 | 0.412 | 2.82 | 43.2 | 31.3 | 1.99 | 26.8 | 0.00 | 0.00 | 0.03 | 171 208 |
| 200 | | 8.16 | 8.14 | 34.027 | 26.489 | 156.9 | 0.461 | 2.48 | 37.4 | 38.0 | 2.17 | 29.4 | 0.00 | 0.00 | 0.03 | 201 207 |
| 229 | | 7.59 | 7.57 | 34.047 | 26.589 | 147.8 | 0.506 | 2.30 | 34.3 | 44.1 | 2.31 | 31.2 | 0.00 | | | 230 206 |
| 250 | ISL | 7.33 | 7.31 | 34.060 | 26.636 | 143.5 | 0.536 | 2.10 | 31.1 | 47.7 | 2.41 | 32.4 | 0.00 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|---------|------|-----------|--------|-------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 39.9 N | 121 1.8 W | 16/01/01 | 0617 | UTC | 3773 m | 320 | 32 kn | | | 1018.6 mb | 12.0 C | 9.0 C | | | | |
| 0 ISL | 14.11 | 14.11 | 33.376 | 24.910 | 303.3 | 0.000 | 5.94 | 101.6 | 3.8 | 0.32 | 0.1 | 0.01 | 0.52 | 0.17 | 0 | |
| 4 | 14.11 | 14.11 | 33.376 | 24.910 | 303.4 | 0.012 | 6.04 | 103.2 U | 3.8 | 0.32 | 0.1 | 0.01 | 0.52 | 0.17 | 4 | 220 |
| 10 ISL | 14.12 | 14.12 | 33.376 | 24.908 | 303.8 | 0.030 | 5.94 | 101.6 | 3.8 | 0.32 | 0.1 | 0.01 | 0.51 | 0.17 | 10 | |
| 16 | 14.13 | 14.13 | 33.377 | 24.907 | 304.1 | 0.049 | 5.94 | 101.6 | 3.7 | 0.32 | 0.1 | 0.01 | 0.51 | 0.17 | 16 | 219 |
| 20 ISL | 14.13 | 14.13 | 33.377 | 24.907 | 304.2 | 0.061 | 5.94 | 101.6 | 3.7 | 0.32 | 0.1 | 0.01 | 0.52 | 0.17 | 20 | |
| 28 | 14.12 | 14.12 | 33.376 | 24.909 | 304.3 | 0.085 | 5.95 | 101.7 | 3.6 | 0.32 | 0.1 | 0.01 | 0.54 | 0.17 | 28 | 218 |
| 30 ISL | 14.12 | 14.12 | 33.376 | 24.909 | 304.3 | 0.091 | 5.95 | 101.7 | 3.6 | 0.32 | 0.1 | 0.01 | 0.54 | 0.17 | 30 | |
| 46 | 14.09 | 14.08 | 33.374 | 24.914 | 304.3 | 0.140 | 5.95 | 101.7 | 3.7 | 0.32 | 0.1 | 0.01 | 0.54 | 0.17 | 46 | 217 |
| 50 ISL | 14.06 | 14.05 | 33.371 | 24.918 | 304.0 | 0.152 | 5.94 | 101.4 | 3.7 | 0.33 | 0.2 | 0.01 | 0.54 | 0.18 | 50 | |
| 56 | 14.01 | 14.00 | 33.367 | 24.926 | 303.5 | 0.170 | 5.92 | 101.0 | 3.7 | 0.34 | 0.3 | 0.02 | 0.53 | 0.19 | 56 | 216 |
| 65 | 12.46 | 12.45 | 33.280 | 25.168 | 280.5 | 0.197 | 5.74 | 94.7 | 5.3 | 0.57 | 3.5 | 0.04 | 0.25 | 0.19 | 65 | 215 |
| 75 ISL | 11.56 | 11.55 | 33.279 | 25.337 | 264.6 | 0.224 | 5.51 | 89.2 | 6.7 | 0.71 | 5.8 | 0.02 | 0.18 | 0.17 | 75 | |
| 76 | 11.50 | 11.49 | 33.283 | 25.351 | 263.2 | 0.226 | 5.49 | 88.8 | 6.8 | 0.72 | 6.0 | 0.02 | 0.17 | 0.17 | 76 | 214 |
| 86 | 10.87 | 10.86 | 33.348 | 25.515 | 247.8 | 0.252 | 5.23 | 83.5 | 8.6 | 0.89 | 9.0 | 0.01 | 0.16 | 0.16 | 86 | 213 |
| 95 | 10.15 | 10.14 | 33.366 | 25.653 | 234.7 | 0.274 | 5.13 | 80.6 | 10.7 | 1.00 | 11.1 | 0.01 | 0.09 | 0.10 | 95 | 212 |
| 100 ISL | 10.07 | 10.06 | 33.436 | 25.721 | 228.3 | 0.285 | 4.93 | 77.4 | 12.3 | 1.10 | 12.8 | 0.01 | 0.07 | 0.08 | 100 | |
| 111 | 9.88 | 9.87 | 33.578 | 25.864 | 215.0 | 0.310 | 4.33 | 67.7 | 16.6 | 1.35 | 16.8 | 0.00 | 0.04 | 0.05 | 112 | 211 |
| 125 | 9.68 | 9.67 | 33.766 | 26.045 | 198.1 | 0.339 | 3.54 | 55.2 | 22.5 | 1.65 | 21.5 | 0.00 | 0.01 | 0.03 | 126 | 210 |
| 141 | 9.49 | 9.47 | 33.883 | 26.167 | 186.8 | 0.369 | 3.09 | 48.0 | 26.6 | 1.83 | 24.2 | 0.00 | 0.00 | 0.03 | 142 | 209 |
| 150 ISL | 9.30 | 9.28 | 33.908 | 26.218 | 182.1 | 0.386 | 3.07 | 47.5 | 27.9 | 1.87 | 24.9 | 0.00 | 0.00 | 0.03 | 151 | |
| 170 | 8.86 | 8.84 | 33.936 | 26.310 | 173.6 | 0.422 | 3.04 | 46.6 | 30.4 | 1.93 | 26.1 | 0.00 | 0.00 | 0.02 | 171 | 208 |
| 199 | 8.51 | 8.49 | 34.022 | 26.432 | 162.5 | 0.470 | 2.41 | 36.6 | 36.1 | 2.16 | 29.0 | 0.00 | 0.00 | 0.03 | 200 | 207 |
| 200 ISL | 8.49 | 8.47 | 34.024 | 26.437 | 162.0 | 0.472 | 2.39 | 36.3 | 36.3 | 2.17 | 29.1 | 0.00 | | | 201 | |
| 230 | 8.01 | 7.99 | 34.067 | 26.543 | 152.3 | 0.519 | 2.09 | 31.4 | 41.8 | 2.32 | 31.0 | 0.00 | | | 231 | 206 |
| 250 ISL | 7.75 | 7.73 | 34.066 | 26.581 | 149.0 | 0.549 | 2.10 | 31.4 | 43.9 | 2.35 | 31.5 | 0.00 | | | 251 | |
| 269 | 7.52 | 7.49 | 34.059 | 26.609 | 146.5 | 0.577 | 2.12 | 31.5 | 45.9 | 2.37 | 31.9 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.06 | 7.03 | 34.070 | 26.682 | 139.8 | 0.622 | 1.82 | 26.8 | 51.7 | 2.51 | 33.7 | 0.00 | | | 302 | |
| 316 | 6.85 | 6.82 | 34.082 | 26.720 | 136.3 | 0.644 | 1.62 | 23.7 | 54.9 | 2.60 | 34.8 | 0.00 | | | 318 | 204 |
| 377 | 6.56 | 6.53 | 34.161 | 26.822 | 127.4 | 0.724 | 0.97 | 14.1 | 64.6 | 2.87 | 37.5 | 0.00 | | | 379 | 203 |
| 400 ISL | 6.46 | 6.42 | 34.182 | 26.852 | 124.8 | 0.753 | 0.83 | 12.0 | 67.2 | 2.93 | 38.1 | 0.00 | | | 403 | |
| 438 | 6.26 | 6.22 | 34.208 | 26.899 | 120.8 | 0.800 | 0.66 | 9.5 | 71.2 | 3.01 | 39.0 | 0.00 | | | 441 | 202 |
| 500 ISL | 5.78 | 5.74 | 34.234 | 26.980 | 113.4 | 0.872 | 0.48 | 6.9 | 80.0 | 3.12 | 40.8 | 0.00 | | | 503 | |
| 511 | 5.69 | 5.65 | 34.239 | 26.995 | 112.0 | 0.885 | 0.45 | 6.4 | 81.6 | 3.14 | 41.1 | 0.00 | | | 514 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|----------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 19.6 N | 121 42.7 W | 16/01/01 | 1846 | UTC | 4051 m | 320 | 28 kn | 320 15 07 | 1 | 1021.9 mb | 13.0 C | 10.5 C | 18m | 4/8 | AC | |
| 0 ISL | 15.15 | 15.15 | 33.488 | 24.775 | 316.2 | 0.000 | 5.80 | 101.3 | 3.3 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 0 | |
| 3 A | 15.15 | 15.15 | 33.488 | 24.775 | 316.3 | 0.009 | 5.80 | 101.3 | 3.3 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 3 | 221 |
| 10 ISL | 15.15 | 15.15 | 33.488 | 24.775 | 316.5 | 0.032 | 5.79 | 101.2 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 10 | |
| 11 A | 15.15 | 15.15 | 33.488 | 24.775 | 316.5 | 0.035 | 5.79 | 101.2 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 11 | 220 |
| 20 ISL | 15.15 | 15.15 | 33.489 | 24.776 | 316.7 | 0.063 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 20 | |
| 23 A | 15.15 | 15.15 | 33.489 | 24.776 | 316.8 | 0.073 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 23 | 219 |
| 30 ISL | 15.15 | 15.15 | 33.489 | 24.776 | 317.0 | 0.095 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 30 | |
| 37 A | 15.15 | 15.14 | 33.489 | 24.776 | 317.2 | 0.117 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.29 | 0.10 | 37 | 218 |
| 49 A | 13.81 | 13.80 | 33.366 | 24.966 | 299.4 | 0.154 | 5.95 | 101.1 | 3.7 | 0.35 | 0.3 | 0.04 | 0.59 | 0.25 | 49 | 217 |
| 50 ISL | 13.79 | 13.78 | 33.365 | 24.969 | 299.1 | 0.157 | 5.95 | 101.0 | 3.7 | 0.35 | 0.3 | 0.04 | 0.59 | 0.25 | 50 | |
| 58 | 13.67 | 13.66 | 33.354 | 24.985 | 297.8 | 0.181 | 5.93 | 100.4 | 3.9 | 0.37 | 0.5 | 0.06 | 0.58 | 0.28 | 58 | 216 |
| 67 A | 13.69 | 13.68 | 33.364 | 24.989 | 297.7 | 0.208 | 5.93 | 100.5 | 3.8 | 0.37 | 0.5 | 0.06 | 0.43 | 0.22 | 67 | 215 |
| 75 ISL | 12.97 | 12.96 | 33.285 | 25.073 | 289.8 | 0.231 | 5.81 | 96.9 | 4.8 | 0.51 | 2.5 | 0.09 | 0.26 | 0.19 | 75 | |
| 76 | 12.85 | 12.84 | 33.276 | 25.090 | 288.3 | 0.234 | 5.79 | 96.3 | 5.0 | 0.53 | 2.8 | 0.09 | 0.24 | 0.19 | 76 | 214 |
| 85 | 11.87 | 11.86 | 33.314 | 25.307 | 267.7 | 0.259 | 5.54 | 90.3 | 6.2 | 0.68 | 5.2 | 0.03 | 0.14 | 0.16 | 85 | 213 |
| 94 | 10.70 | 10.69 | 33.256 | 25.473 | 251.9 | 0.283 | 5.52 | 87.7 | 7.5 | 0.78 | 7.0 | 0.01 | 0.13 | 0.14 | 94 | 212 |
| 100 ISL | 10.30 | 10.29 | 33.274 | 25.556 | 244.1 | 0.298 | 5.50 | 86.6 | 8.1 | 0.83 | 8.0 | 0.01 | 0.11 | 0.12 | 100 | |
| 109 | 9.97 | 9.96 | 33.326 | 25.652 | 235.0 | 0.319 | 5.44 | 85.1 | 9.1 | 0.90 | 9.4 | 0.01 | 0.07 | 0.09 | 110 | 211 |
| 125 | 9.42 | 9.41 | 33.375 | 25.781 | 223.0 | 0.356 | 5.23 | 80.9 | 11.9 | 1.07 | 12.2 | 0.01 | 0.04 | 0.06 | 126 | 210 |
| 144 | 9.41 | 9.39 | 33.669 | 26.013 | 201.4 | 0.396 | 4.01 | 62.1 | 20.4 | 1.53 | 19.6 | 0.00 | 0.01 | 0.03 | 145 | 209 |
| 150 ISL | 9.36 | 9.34 | 33.726 | 26.066 | 196.5 | 0.408 | 3.77 | 58.3 | 22.3 | 1.62 | 21.1 | 0.00 | 0.01 | 0.03 | 151 | |
| 169 | 9.11 | 9.09 | 33.852 | 26.205 | 183.6 | 0.444 | 3.26 | 50.2 | 27.4 | 1.84 | 24.5 | 0.00 | 0.00 | 0.02 | 170 | 208 |
| 200 | 8.50 | 8.48 | 34.001 | 26.417 | 163.9 | 0.498 | 2.74 | 41.7 | 34.7 | 2.07 | 27.9 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 230 | 8.08 | 8.06 | 34.042 | 26.513 | 155.2 | 0.546 | 2.40 | 36.1 | 39.9 | 2.22 | 29.8 | 0.00 | | | 231 | 206 |
| 250 ISL | 7.73 | 7.71 | 34.042 | 26.565</ | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|-------|--------|--------|------|------|
| 31 59.4 N | 122 23.5 W | 17/01/01 | 0138 | UTC | 4068 m | 330 | 22 kn | 320 10 06 | 1 | 1021.0 mb | 13.4 C | 9.9 C | | 4/8 | | AC |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 15.02 | 15.02 | 33.294 | 24.653 | 327.8 | 0.000 | 5.83 | 101.5 | 3.5 | 0.30 | 0.1 | 0.00 | 0.30 | 0.10 | 0 | |
| 3 | 15.02 | 15.02 | 33.294 | 24.653 | 327.8 | 0.010 | 5.83 | 101.5 | 3.5 | 0.30 | 0.1 | 0.00 | 0.30 | 0.10 | 3 | 220 |
| 10 ISL | 14.99 | 14.99 | 33.290 | 24.657 | 327.7 | 0.033 | 5.83 | 101.4 | 3.4 | 0.30 | 0.1 | 0.00 | 0.31 | 0.10 | 10 | |
| 15 | 14.95 | 14.95 | 33.286 | 24.663 | 327.3 | 0.049 | 5.83 | 101.3 | 3.4 | 0.30 | 0.1 | 0.00 | 0.31 | 0.10 | 15 | 219 |
| 20 ISL | 14.88 | 14.88 | 33.280 | 24.673 | 326.5 | 0.065 | 5.84 | 101.3 | 3.4 | 0.30 | 0.1 | 0.00 | 0.33 | 0.11 | 20 | |
| 30 | 14.73 | 14.73 | 33.267 | 24.696 | 324.6 | 0.098 | 5.86 | 101.4 | 3.5 | 0.31 | 0.1 | 0.01 | 0.36 | 0.12 | 30 | 218 |
| 47 | 14.60 | 14.59 | 33.259 | 24.718 | 323.0 | 0.153 | 5.86 | 101.1 | 3.5 | 0.31 | 0.1 | 0.01 | 0.39 | 0.12 | 47 | 217 |
| 50 ISL | 14.57 | 14.56 | 33.256 | 24.722 | 322.7 | 0.163 | 5.86 | 101.0 | 3.5 | 0.31 | 0.1 | 0.01 | 0.39 | 0.12 | 50 | |
| 56 | 14.53 | 14.52 | 33.252 | 24.728 | 322.3 | 0.182 | 5.87 | 101.1 | 3.5 | 0.31 | 0.1 | 0.01 | 0.40 | 0.13 | 56 | 216 |
| 66 | 14.49 | 14.48 | 33.256 | 24.740 | 321.5 | 0.214 | 5.89 | 101.4 | 3.4 | 0.31 | 0.1 | 0.01 | 0.43 | 0.13 | 66 | 215 |
| 75 | 14.32 | 14.31 | 33.261 | 24.780 | 317.9 | 0.243 | 5.89 | 101.0 | 3.6 | 0.32 | 0.2 | 0.02 | 0.46 | 0.14 | 75 | 214 |
| 85 | 14.23 | 14.22 | 33.257 | 24.796 | 316.7 | 0.275 | 5.91 | 101.2 | 3.6 | 0.33 | 0.3 | 0.03 | 0.45 | 0.16 | 85 | 213 |
| 96 | 13.62 | 13.61 | 33.270 | 24.932 | 303.9 | 0.309 | 5.92 | 100.1 | 4.0 | 0.40 | 0.9 | 0.13 | 0.25 | 0.22 | 96 | 212 |
| 100 ISL | 12.99 | 12.98 | 33.252 | 25.044 | 293.2 | 0.321 | 5.88 | 98.1 | 4.4 | 0.45 | 1.5 | 0.11 | 0.21 | 0.21 | 100 | |
| 109 | 11.55 | 11.54 | 33.236 | 25.306 | 268.3 | 0.346 | 5.74 | 92.9 | 5.5 | 0.57 | 3.3 | 0.04 | 0.15 | 0.16 | 109 | 211 |
| 121 | 10.89 | 10.88 | 33.305 | 25.478 | 252.1 | 0.377 | 5.54 | 88.4 | 6.8 | 0.71 | 6.2 | 0.01 | 0.11 | 0.12 | 122 | 210 |
| 125 ISL | 10.61 | 10.60 | 33.323 | 25.541 | 246.1 | 0.387 | 5.49 | 87.1 | 7.5 | 0.76 | 7.2 | 0.01 | 0.10 | 0.11 | 126 | |
| 144 | 9.49 | 9.47 | 33.428 | 25.812 | 220.5 | 0.432 | 5.18 | 80.2 | 11.9 | 1.02 | 12.0 | 0.00 | 0.04 | 0.05 | 145 | 209 |
| 150 ISL | 9.43 | 9.41 | 33.495 | 25.874 | 214.7 | 0.445 | 5.00 | 77.4 | 13.6 | 1.11 | 13.6 | 0.00 | 0.03 | 0.04 | 151 | |
| 169 | 9.24 | 9.22 | 33.663 | 26.036 | 199.7 | 0.484 | 4.39 | 67.7 | 19.0 | 1.40 | 18.2 | 0.00 | 0.01 | 0.03 | 170 | 208 |
| 198 | 8.95 | 8.93 | 33.872 | 26.246 | 180.2 | 0.539 | 3.60 | 55.2 | 26.2 | 1.70 | 23.1 | 0.00 | 0.00 | 0.02 | 199 | 207 |
| 200 ISL | 8.91 | 8.89 | 33.884 | 26.262 | 178.8 | 0.543 | 3.54 | 54.3 | 26.8 | 1.73 | 23.5 | 0.00 | | | 201 | |
| 229 | 8.35 | 8.33 | 34.011 | 26.448 | 161.4 | 0.592 | 2.78 | 42.1 | 35.6 | 2.06 | 28.2 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.01 | 7.98 | 34.041 | 26.523 | 154.6 | 0.625 | 2.50 | 37.6 | 39.7 | 2.20 | 29.9 | 0.00 | | | 251 | |
| 268 | 7.74 | 7.71 | 34.046 | 26.567 | 150.6 | 0.653 | 2.35 | 35.1 | 42.6 | 2.28 | 30.8 | 0.00 | | | 269 | 205 |
| 300 ISL | 7.27 | 7.24 | 34.050 | 26.637 | 144.2 | 0.700 | 2.13 | 31.5 | 47.8 | 2.40 | 32.5 | 0.00 | | | 302 | |
| 319 | 7.02 | 6.99 | 34.051 | 26.673 | 141.0 | 0.727 | 2.01 | 29.5 | 50.8 | 2.47 | 33.4 | 0.00 | | | 321 | 204 |
| 378 | 6.44 | 6.41 | 34.084 | 26.777 | 131.6 | 0.807 | 1.46 | 21.2 | 61.1 | 2.72 | 36.5 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.24 | 6.20 | 34.094 | 26.811 | 128.5 | 0.836 | 1.29 | 18.6 | 64.8 | 2.80 | 37.5 | 0.00 | | | 402 | |
| 437 | 5.94 | 5.90 | 34.114 | 26.865 | 123.6 | 0.883 | 1.02 | 14.6 | 71.0 | 2.92 | 39.1 | 0.00 | | | 440 | 202 |
| 500 ISL | 5.57 | 5.53 | 34.184 | 26.966 | 114.5 | 0.958 | 0.59 | 8.4 | 81.1 | 3.10 | 41.0 | 0.00 | | | 503 | |
| 516 | 5.48 | 5.44 | 34.202 | 26.991 | 112.2 | 0.976 | 0.48 | 6.8 | 83.7 | 3.14 | 41.5 | 0.00 | | | 519 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|-------|--------|--------|------|------|
| 31 39.7 N | 123 4.2 W | 17/01/01 | 0743 | UTC | 4111 m | 340 | 21 kn | | | 1024.0 mb | 12.5 C | 9.0 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 15.56 | 15.56 | 33.365 | 24.590 | 333.9 | 0.000 | 5.70 | 100.3 | 3.5 | 0.31 | 0.0 | 0.00 | 0.23 | 0.09 | 0 | |
| 2 | 15.56 | 15.56 | 33.365 | 24.590 | 333.9 | 0.007 | 5.70 | 100.3 | 3.5 | 0.31 | 0.0 | 0.00 | 0.23 | 0.09 | 2 | 220 |
| 10 ISL | 15.57 | 15.57 | 33.366 | 24.589 | 334.3 | 0.033 | 5.70 | 100.3 | 3.4 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 10 | |
| 15 | 15.57 | 15.57 | 33.366 | 24.589 | 334.4 | 0.050 | 5.70 | 100.3 | 3.3 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 15 | 219 |
| 20 ISL | 15.57 | 15.57 | 33.367 | 24.590 | 334.5 | 0.067 | 5.70 | 100.3 | 3.3 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 20 | |
| 30 ISL | 15.58 | 15.58 | 33.368 | 24.589 | 334.9 | 0.100 | 5.71 | 100.5 | 3.3 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 30 | |
| 31 | 15.58 | 15.58 | 33.368 | 24.589 | 334.9 | 0.104 | 5.71 | 100.5 | 3.3 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 31 | 218 |
| 48 | 15.58 | 15.57 | 33.367 | 24.588 | 335.5 | 0.161 | 5.70 | 100.4 | 3.2 | 0.30 | 0.0 | 0.00 | 0.24 | 0.09 | 48 | 217 |
| 50 ISL | 15.58 | 15.57 | 33.367 | 24.588 | 335.5 | 0.167 | 5.70 | 100.4 | 3.2 | 0.30 | 0.0 | 0.00 | 0.24 | 0.09 | 50 | |
| 60 | 15.58 | 15.57 | 33.367 | 24.589 | 335.8 | 0.201 | 5.70 | 100.4 | 3.2 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 60 | 216 |
| 74 | 15.59 | 15.58 | 33.370 | 24.589 | 336.2 | 0.248 | 5.71 | 100.5 | 3.1 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 74 | 215 |
| 75 ISL | 15.59 | 15.58 | 33.370 | 24.589 | 336.2 | 0.251 | 5.71 | 100.5 | 3.1 | 0.30 | 0.0 | 0.00 | 0.23 | 0.09 | 75 | |
| 85 | 15.58 | 15.57 | 33.369 | 24.591 | 336.3 | 0.285 | 5.70 | 100.3 | 3.0 | 0.30 | 0.0 | 0.00 | 0.24 | 0.09 | 85 | 214 |
| 95 | 15.48 | 15.47 | 33.355 | 24.603 | 335.5 | 0.319 | 5.72 | 100.5 | 3.1 | 0.30 | 0.0 | 0.01 | 0.24 | 0.10 | 95 | 213 |
| 100 ISL | 15.07 | 15.05 | 33.327 | 24.671 | 329.1 | 0.335 | 5.79 | 100.9 | 3.3 | 0.32 | 0.2 | 0.05 | 0.25 | 0.15 | 100 | |
| 105 | 14.38 | 14.36 | 33.287 | 24.788 | 318.0 | 0.351 | 5.85 | 100.5 | 3.4 | 0.35 | 0.3 | 0.09 | 0.25 | 0.19 | 105 | 212 |
| 114 | 12.37 | 12.36 | 33.208 | 25.131 | 285.2 | 0.378 | 5.86 | 96.5 | 4.8 | 0.48 | 1.8 | 0.13 | 0.19 | 0.20 | 114 | 211 |
| 125 | 12.03 | 12.01 | 33.259 | 25.235 | 275.5 | 0.409 | 5.81 | 95.0 | 4.6 | 0.47 | 1.6 | 0.15 | 0.15 | 0.17 | 126 | 210 |
| 139 | 10.71 | 10.69 | 33.314 | 25.517 | 248.7 | 0.446 | 5.56 | 88.4 | 6.3 | 0.67 | 5.5 | 0.02 | 0.09 | 0.12 | 140 | 209 |
| 150 ISL | 10.08 | 10.06 | 33.337 | 25.643 | 236.8 | 0.473 | 5.34 | 83.7 | 8.7 | 0.87 | 8.9 | 0.02 | 0.06 | 0.09 | 151 | |
| 165 | 9.56 | 9.54 | 33.402 | 25.781 | 223.9 | 0.507 | 4.97 | 77.1 | 12.9 | 1.14 | 13.4 | 0.01 | 0.04 | 0.05 | 166 | 208 |
| 194 | 8.99 | 8.97 | 33.817 | 26.197 | 184.8 | 0.567 | 4.02 | 61.7 | 23.2 | 1.54 | 20.8 | 0.01 | 0.00 | 0.02 | 195 | 207 |
| 200 ISL | 8.89 | 8.87 | 33.863 | 26.249 | 180.0 | 0.578 | 3.88 | 59.4 | 25.0 | 1.61 | 22.0 | 0.01 | | | 201 | |
| 229 | 8.40 | 8.38 | 33.980 | 26.417 | 164.5 | 0.627 | | | | | | | | | 230 | 206 |
| 250 ISL | 8.01 | 7.98 | 34.006 | 26.496 | 157.2 | 0.661 | 3.01 | 45.2 | 37.0 | 2.03 | 28.1 | 0.00 | | | 251 | |
| 269 | 7.66 | 7.63 | 34.008 | 26.548 | 152.3 | 0.691 | 2.82 | 42.1 | 40.5 | 2.10 | 29.2 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.20 | 7.17 | 34.015 | 26.619 | 145.8 | 0.737 | 2.52 | 37.2 | 45.9 | 2.25</ | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.58 | 15.58 | 33.369 | 24.588 | 334.0 | 0.000 | 5.70 | 100.4 | 3.1 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 0 | |
| 2 | 15.58 | 15.58 | 33.369 | 24.588 | 334.0 | 0.007 | 5.70 | 100.4 | 3.1 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 2 | 220 |
| 10 ISL | 15.58 | 15.58 | 33.369 | 24.589 | 334.3 | 0.033 | 5.71 | 100.5 | 3.1 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 10 | |
| 16 | 15.58 | 15.58 | 33.369 | 24.589 | 334.4 | 0.053 | 5.71 | 100.5 | 3.0 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 16 | 219 |
| 20 ISL | 15.58 | 15.58 | 33.369 | 24.589 | 334.5 | 0.067 | 5.71 | 100.5 | 3.0 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 20 | |
| 30 | 15.59 | 15.59 | 33.370 | 24.588 | 335.0 | 0.100 | 5.70 | 100.4 | 2.9 | 0.30 | 0.0 | 0.00 | 0.20 | 0.07 | 30 | 218 |
| 45 | 15.59 | 15.58 | 33.369 | 24.588 | 335.5 | 0.151 | 5.72 | 100.7 | 3.0 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 45 | 217 |
| 50 ISL | 15.59 | 15.58 | 33.369 | 24.588 | 335.6 | 0.167 | 5.71 | 100.6 | 3.0 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 50 | |
| 61 | 15.59 | 15.58 | 33.369 | 24.588 | 335.9 | 0.204 | 5.70 | 100.4 | 2.9 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 61 | 216 |
| 75 | 15.59 | 15.58 | 33.369 | 24.589 | 336.3 | 0.251 | 5.71 | 100.5 | 2.8 | 0.30 | 0.0 | 0.00 | 0.20 | 0.08 | 75 | 215 |
| 85 | 15.57 | 15.56 | 33.368 | 24.593 | 336.2 | 0.285 | 5.72 | 100.7 | 2.8 | 0.30 | 0.0 | 0.00 | 0.21 | 0.08 | 85 | 214 |
| 95 | 14.82 | 14.81 | 33.341 | 24.736 | 322.8 | 0.318 | 5.81 | 100.7 | 3.0 | 0.32 | 0.1 | 0.04 | 0.23 | 0.14 | 95 | 213 |
| 100 ISL | 13.82 | 13.81 | 33.304 | 24.917 | 305.5 | 0.334 | 5.82 | 98.8 | 3.5 | 0.39 | 0.7 | 0.13 | 0.25 | 0.18 | 100 | |
| 104 | 13.01 | 13.00 | 33.285 | 25.066 | 291.3 | 0.346 | 5.83 | 97.3 | 4.0 | 0.45 | 1.4 | 0.19 | 0.25 | 0.21 | 104 | 212 |
| 116 | 12.11 | 12.09 | 33.313 | 25.262 | 272.8 | 0.379 | 5.59 | 91.6 | 5.1 | 0.60 | 3.9 | 0.02 | 0.15 | 0.18 | 116 | 211 |
| 125 ISL | 11.78 | 11.76 | 33.329 | 25.336 | 265.9 | 0.404 | 5.47 | 89.0 | 5.7 | 0.68 | 5.3 | 0.01 | 0.13 | 0.14 | 126 | |
| 126 | 11.75 | 11.73 | 33.331 | 25.343 | 265.2 | 0.406 | 5.46 | 88.8 | 5.8 | 0.69 | 5.5 | 0.01 | 0.13 | 0.14 | 127 | 210 |
| 140 | 10.97 | 10.95 | 33.366 | 25.512 | 249.3 | 0.442 | 5.23 | 83.6 | 7.9 | 0.86 | 8.6 | 0.01 | 0.09 | 0.09 | 141 | 209 |
| 150 ISL | 10.47 | 10.45 | 33.436 | 25.654 | 235.9 | 0.467 | 4.88 | 77.2 | 11.1 | 1.05 | 11.9 | 0.01 | 0.06 | 0.07 | 151 | |
| 165 | 9.88 | 9.86 | 33.566 | 25.856 | 216.9 | 0.501 | 4.30 | 67.2 | 16.4 | 1.35 | 16.9 | 0.00 | 0.02 | 0.04 | 166 | 208 |
| 194 | 9.38 | 9.36 | 33.780 | 26.106 | 193.6 | 0.560 | 3.56 | 55.1 | 23.7 | 1.69 | 22.3 | 0.00 | 0.00 | 0.02 | 195 | 207 |
| 200 ISL | 9.28 | 9.26 | 33.816 | 26.150 | 189.5 | 0.572 | 3.45 | 53.3 | 25.0 | 1.74 | 23.1 | 0.00 | | | 201 | |
| 231 | 8.74 | 8.72 | 33.955 | 26.345 | 171.5 | 0.628 | 2.98 | 45.5 | 31.4 | 1.94 | 26.4 | 0.00 | | | 232 | 206 |
| 250 ISL | 8.42 | 8.39 | 34.000 | 26.430 | 163.6 | 0.659 | 2.76 | 41.9 | 35.0 | 2.05 | 27.9 | 0.00 | | | 251 | |
| 270 | 8.10 | 8.07 | 34.027 | 26.499 | 157.3 | 0.691 | 2.55 | 38.4 | 38.6 | 2.15 | 29.2 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.68 | 7.65 | 34.052 | 26.581 | 149.8 | 0.738 | 2.23 | 33.3 | 44.1 | 2.30 | 31.1 | 0.00 | | | 302 | |
| 318 | 7.47 | 7.44 | 34.060 | 26.617 | 146.5 | 0.764 | 2.05 | 30.4 | 47.1 | 2.39 | 32.1 | 0.00 | | | 320 | 204 |
| 374 | 7.03 | 6.99 | 34.090 | 26.703 | 139.0 | 0.844 | 1.61 | 23.7 | 53.8 | 2.62 | 34.4 | 0.00 | | | 376 | 203 |
| 400 ISL | 6.84 | 6.80 | 34.113 | 26.747 | 135.1 | 0.880 | 1.35 | 19.8 | 57.7 | 2.72 | 35.6 | 0.00 | | | 402 | |
| 437 | 6.57 | 6.53 | 34.148 | 26.811 | 129.3 | 0.929 | 1.00 | 14.5 | 63.7 | 2.84 | 37.3 | 0.00 | | | 440 | 202 |
| 500 ISL | 6.08 | 6.04 | 34.198 | 26.915 | 120.0 | 1.007 | 0.64 | 9.2 | 73.9 | 3.02 | 39.4 | 0.00 | | | 503 | |
| 522 | 5.91 | 5.86 | 34.216 | 26.950 | 116.7 | 1.033 | 0.51 | 7.3 | 77.4 | 3.08 | 40.2 | 0.00 | | | 525 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 28

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.04 | 15.04 | 33.449 | 24.768 | 316.8 | 0.000 | 5.84 | 101.8 | 3.4 | 0.36 | 0.1 | 0.02 | 0.40 | 0.19 | 0 | |
| 2 A | 15.04 | 15.04 | 33.449 | 24.769 | 316.9 | 0.006 | 5.84 | 101.8 | 3.4 | 0.36 | 0.1 | 0.02 | 0.40 | 0.19 | 2 | 208 |
| 6 A | 14.93 | 14.93 | 33.448 | 24.792 | 314.8 | 0.019 | 5.80 | 100.9 | 3.3 | 0.36 | 0.1 | 0.02 | 0.43 | 0.20 | 6 | 207 |
| 10 ISL | 14.91 | 14.91 | 33.449 | 24.797 | 314.4 | 0.032 | 5.81 | 101.0 | 3.3 | 0.36 | 0.1 | 0.02 | 0.45 | 0.22 | 10 | |
| 11 A | 14.91 | 14.91 | 33.449 | 24.797 | 314.4 | 0.035 | 5.81 | 101.0 | 3.3 | 0.36 | 0.1 | 0.02 | 0.45 | 0.22 | 11 | 206 |
| 16 A | 14.90 | 14.90 | 33.454 | 24.803 | 314.0 | 0.050 | 5.83 | 101.3 | 3.2 | 0.35 | 0.1 | 0.02 | 0.44 | 0.23 | 16 | 205 |
| 20 ISL | 14.93 | 14.93 | 33.459 | 24.801 | 314.4 | 0.063 | 5.82 | 101.2 | 3.1 | 0.35 | 0.1 | 0.02 | 0.45 | 0.23 | 20 | |
| 22 A | 14.95 | 14.95 | 33.464 | 24.800 | 314.5 | 0.069 | 5.82 | 101.3 | 3.1 | 0.35 | 0.1 | 0.02 | 0.45 | 0.22 | 22 | 204 |
| 30 A | 15.04 | 15.04 | 33.528 | 24.850 | 311.8 | 0.094 | 5.79 | 100.9 | 3.0 | 0.31 | 0.1 | 0.01 | 0.33 | 0.19 | 30 | 203 |
| 40 | 14.61 | 14.60 | 33.525 | 24.921 | 303.5 | 0.125 | 5.61 | 97.0 | 4.4 | 0.46 | 1.3 | 0.06 | 0.26 | 0.23 | 40 | 202 |
| 50 ISL | 14.56 | 14.55 | 33.528 | 24.934 | 302.5 | 0.155 | 5.57 | 96.2 | 4.6 | 0.48 | 1.6 | 0.07 | 0.27 | 0.23 | 50 | |
| 51 | 14.56 | 14.55 | 33.528 | 24.934 | 302.6 | 0.158 | 5.57 | 96.2 | 4.6 | 0.48 | 1.6 | 0.07 | 0.27 | 0.23 | 51 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 30

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 25.2 N | 117 54.6 W | 14/01/01 | 1159 | UTC | 608 m | 300 | 01 kn | | | | | | | | | |
| 0 ISL | 14.83 | 14.83 | 33.515 | 24.865 | 307.6 | 0.000 | 5.86 | 101.7 | 2.8 | 0.28 | 0.1 | 0.00 | 0.34 | 0.14 | 0 | |
| 2 | 14.83 | 14.83 | 33.515 | 24.865 | 307.7 | 0.006 | 5.86 | 101.7 | 2.8 | 0.28 | 0.1 | 0.00 | 0.34 | 0.14 | 2 | 220 |
| 10 ISL | 14.84 | 14.84 | 33.517 | 24.865 | 308.0 | 0.031 | 5.86 | 101.8 | 2.8 | 0.29 | 0.1 | 0.00 | 0.34 | 0.14 | 10 | |
| 11 | 14.84 | 14.84 | 33.517 | 24.865 | 308.0 | 0.034 | 5.86 | 101.8 | 2.8 | 0.29 | 0.1 | 0.00 | 0.34 | 0.14 | 11 | 219 |
| 20 | 14.82 | 14.82 | 33.518 | 24.870 | 307.8 | 0.062 | 5.86 | 101.7 | 2.8 | 0.28 | 0.1 | 0.00 | 0.35 | 0.17 | 20 | 218 |
| 30 | 14.81 | 14.81 | 33.525 | 24.878 | 307.3 | 0.092 | 5.85 | 101.5 | 2.8 | 0.28 | 0.1 | 0.00 | 0.44 | 0.20 | 30 | 217 |
| 40 | 14.11 | 14.10 | 33.517 | 25.020 | 294.0 | 0.122 | 5.73 | 98.0 | 4.2 | 0.42 | 1.1 | 0.17 | 1.14 | 0.64 | 40 | 216 |
| 50 | 13.26 | 13.25 | 33.501 | 25.182 | 278.8 | 0.151 | 5.35 | 89.9 | 5.9 | 0.61 | 4.1 | 0.18 | 0.62 | 0.48 | 50 | 215 |
| 60 | 12.49 | 12.48 | 33.452 | 25.296 | 268.2 | 0.178 | 5.21 | 86.1 | 6.9 | 0.74 | 6.4 | 0.07 | 0.35 | 0.32 | 60 | 214 |
| 70 | 11.50 | 11.49 | 33.484 | 25.507 | 248.3 | 0.204 | 4.87 | 78.9 | 9.4 | 0.94 | 10.0 | 0.02 | 0.18 | 0.22 | 70 | 213 |
| 75 ISL | 11.13 | 11.12 | 33.523 | 25.604 | 239.1 | 0.216 | 4.63 | 74.4 | 11.3 | 1.06 | 12.1 | 0.02 | 0.12 | 0.17 | 75 | |
| 85 | 10.63 | 10.62 | 33.613 | 25.763 | 224.2 | 0.240 | 4.15 | 66.0 | 15.3 | 1.30 | 15.8 | 0.01 | 0.05 | 0.08 | 85 | 212 |
| 99 | 10.40 | 10.39 | 33.713 | 25.881 | 213.2 | 0.270 | 3.65 | 57.8 | 19.1 | 1.52 | 18.7 | 0.01 | 0.03 | 0.05 | 99 | 211 |
| 100 ISL | 10.39 | 10.38 | 33.719 | 25.888 | 212.6 | 0.272 | 3.62 | 57.3 | 19.3 | 1.53 | 18.8 | 0.01 | 0.03 | 0.05 | 100 | |
| 119 | 10.31 | 10.30 | 33.823 | 25.983 | 204.0 | 0.312 | 3.14 | 49.6 | 22.7 | 1.70 | 21.0 | 0.01 | 0.01 | 0.05 | 120 | 210 |
| 125 ISL | 10.25 | 10.24 | 33.860 | 26.022 | 200.4 | 0.324 | 2.98 | 47.1 | 24.0 | 1.77 | 21.8 | 0.01 | 0.01 | 0.05 | 126 | |
| 139 | 10.09 | 10.07 | 33.944 | 26.115 | 191.8 | 0.351 | 2.63 | 41.4 | 26.9 | 1.92 | 23.7 | 0.00 | 0.00 | 0.04 | 140 | 209 |
| 150 ISL | 9.99 | 9.97 | 33.999 | 26.175 | 186.4 | 0.372 | 2.41 | 37.9 | 28.7 | 2.01 | 24.8 | 0.00 | 0.00 | 0.04 | 151 | |
| 169 | 9.79 | 9.77 | 34.074 | 26.268 | 178.0 | 0.407 | 2.14 | 33.5 | 31.4 | 2.13 | 26.4 | 0.00 | 0.00 | 0.04 | 170 | 208 |
| 199 | 9.24 | 9.22 | 34.136 | 26.407 | 165.2 | 0.458 | 1.98 | 30.6 | 35.2 | 2.24 | 28.0 | 0.00 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 9.23 | 9.21 | 34.137 | 26.409 | 165.0 | 0.460 | 1.97 | 30.5 | 35.3 | 2.24 | 28.1 | 0.00 | | | 201 | |
| 229 | 8.89 | 8.87 | 34.164 | 26.485 | 158.3 | 0.507 | 1.80 | 27.6 | 38.5 | 2.34 | 29.5 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.62 | 8.59 | 34.173 | 26.535 | 153.8 | 0.540 | 1.70 | 25.9 | 41.0 | 2.40 | 30.4 | 0.00 | | | 251 | |
| 268 | 8.39 | 8.36 | 34.178 | 26.574 | 150.3 | 0.567 | 1.61 | 24.4 | 43.3 | 2.46 | 31.1 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.99 | 7.96 | 34.192 | 26.646 | 143.9 | 0.614 | 1.37 | 20.6 | 48.1 | 2.58 | 32.5 | 0.00 | | | 302 | |
| 318 | 7.79 | 7.76 | 34.200 | 26.681 | 140.7 | 0.640 | 1.23 | 18.4 | 50.8 | 2.65 | 33.3 | 0.00 | | | 320 | 204 |
| 377 | 7.29 | 7.25 | 34.232 | 26.779 | 132.2 | 0.720 | 0.86 | 12.7 | 58.5 | 2.83 | 35.5 | 0.00 | | | 379 | 203 |
| 400 ISL | 7.08 | 7.04 | 34.248 | 26.821 | 128.4 | 0.750 | 0.71 | 10.5 | 62.1 | 2.91 | 36.4 | 0.00 | | | 403 | |
| 438 | 6.75 | 6.71 | 34.275 | 26.887 | 122.4 | 0.798 | 0.50 | 7.3 | 68.0 | 3.02 | 37.8 | 0.00 | | | 441 | 202 |
| 500 ISL | 6.39 | 6.34 | 34.309 | 26.963 | 115.9 | 0.872 | 0.33 | 4.8 | 75.1 | 3.13 | 39.0 | 0.00 | | | 503 | |
| 512 | 6.32 | 6.27 | 34.316 | 26.977 | 114.6 | 0.885 | 0.30 | 4.3 | 76.5 | 3.15 | 39.2 | 0.00 | | | 516 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 15.2 N | 118 14.9 W | 14/01/01 | 0757 | UTC | 289 m | 280 | 04 kn | | | | | | | | | |
| 0 ISL | 14.02 | 14.02 | 33.478 | 25.008 | 294.1 | 0.000 | 5.89 | 100.6 | 3.4 | 0.37 | 0.9 | 0.06 | 0.88 | 0.30 | 0 | |
| 2 | 14.02 | 14.02 | 33.478 | 25.008 | 294.1 | 0.006 | 5.89 | 100.6 | 3.4 | 0.37 | 0.9 | 0.06 | 0.88 | 0.30 | 2 | 217 |
| 10 ISL | 13.99 | 13.99 | 33.478 | 25.014 | 293.7 | 0.029 | 5.89 | 100.5 | 3.4 | 0.37 | 0.9 | 0.06 | 0.87 | 0.28 | 10 | |
| 11 | 13.99 | 13.99 | 33.478 | 25.014 | 293.7 | 0.032 | 5.89 | 100.5 | 3.4 | 0.37 | 0.9 | 0.06 | 0.87 | 0.28 | 11 | 216 |
| 20 | 13.99 | 13.99 | 33.478 | 25.014 | 294.0 | 0.059 | 5.90 | 100.7 | 3.4 | 0.37 | 0.9 | 0.06 | 0.84 | 0.31 | 20 | 215 |
| 30 ISL | 13.99 | 13.99 | 33.479 | 25.016 | 294.2 | 0.088 | 5.88 | 100.3 | 3.4 | 0.37 | 0.9 | 0.06 | 0.74 | 0.25 | 30 | |
| 31 | 13.99 | 13.99 | 33.479 | 25.016 | 294.2 | 0.091 | 5.88 | 100.3 | 3.4 | 0.37 | 0.9 | 0.06 | 0.73 | 0.25 | 31 | 214 |
| 40 | 13.75 | 13.74 | 33.493 | 25.076 | 288.7 | 0.117 | 5.68 | 96.4 | 4.2 | 0.46 | 2.1 | 0.12 | 0.71 | 0.31 | 40 | 213 |
| 50 | 12.36 | 12.35 | 33.501 | 25.358 | 262.0 | 0.145 | 5.05 | 83.3 | 8.1 | 0.81 | 7.4 | 0.21 | 0.45 | 0.29 | 50 | 212 |
| 61 | 11.51 | 11.50 | 33.492 | 25.511 | 247.7 | 0.173 | 4.71 | 76.3 | 10.7 | 1.02 | 10.9 | 0.11 | 0.28 | 0.23 | 61 | 211 |
| 71 | 11.24 | 11.23 | 33.542 | 25.599 | 239.5 | 0.197 | 4.40 | 70.9 | 12.7 | 1.16 | 12.8 | 0.18 | 0.19 | 0.19 | 71 | 210 |
| 75 ISL | 11.11 | 11.10 | 33.568 | 25.643 | 235.4 | 0.207 | 4.25 | 68.3 | 13.8 | 1.23 | 13.8 | 0.18 | 0.16 | 0.17 | 75 | |
| 85 | 10.77 | 10.76 | 33.633 | 25.754 | 225.0 | 0.230 | 3.88 | 61.9 | 16.8 | 1.40 | 16.4 | 0.13 | 0.11 | 0.14 | 85 | 209 |
| 100 | 10.23 | 10.22 | 33.713 | 25.910 | 210.4 | 0.262 | 3.52 | 55.5 | 20.6 | 1.59 | 19.7 | 0.06 | 0.05 | 0.11 | 101 | 208 |
| 120 | 9.90 | 9.89 | 33.960 | 26.159 | 187.2 | 0.302 | 2.55 | 40.0 | 28.1 | 1.97 | 24.6 | 0.02 | 0.01 | 0.06 | 121 | 207 |
| 125 ISL | 9.84 | 9.83 | 33.982 | 26.187 | 184.7 | 0.312 | 2.51 | 39.3 | 28.8 | 2.00 | 25.1 | 0.02 | 0.01 | 0.06 | 126 | |
| 140 | 9.70 | 9.68 | 34.012 | 26.234 | 180.5 | 0.339 | 2.39 | 37.3 | 30.0 | 2.05 | 25.7 | 0.02 | 0.01 | 0.08 | 141 | 206 |
| 150 ISL | 9.60 | 9.58 | 34.038 | 26.271 | 177.2 | 0.357 | 2.31 | 36.0 | 31.0 | 2.09 | 26.2 | 0.02 | 0.01 | 0.08 | 151 | |
| 170 | 9.38 | 9.36 | 34.081 | 26.341 | 170.9 | 0.392 | 2.18 | 33.8 | 33.0 | 2.17 | 27.2 | 0.01 | 0.01 | 0.08 | 171 | 205 |
| 199 | 9.04 | 9.02 | 34.111 | 26.419 | 163.9 | 0.440 | 2.03 | 31.3 | 35.9 | 2.25 | 28.4 | 0.01 | 0.01 | 0.05 | 200 | 204 |
| 200 ISL | 9.03 | 9.01 | 34.112 | 26.422 | 163.7 | 0.442 | 2.03 | 31.3 | 36.0 | 2.25 | 28.4 | 0.01 | | | 201 | |
| 230 | 8.82 | 8.80 | 34.129 | 26.469 | 159.8 | 0.490 | 1.91 | 29.3 | 38.1 | 2.31 | 29.3 | 0.01 | | | 231 | 203 |
| 250 ISL | 8.57 | 8.54 | 34.150 | 26.524 | 154.8 | 0.522 | 1.76 | 26.8 | 41.0 | 2.40 | 30.2 | 0.02 | | | 251 | |
| 270 | 8.37 | 8.34 | 34.168 | 26.569 | 150.8 | 0.552 | 1.63 | 24.7 | 43.3 | 2.47 | 31.0 | 0.02 | | | 272 | 202 |
| 292 | 8.36 | 8.33 | 34.169 | 26.572 | 151.0 | 0.586 | 1.60 | 24.3 | 43.3 | 2.47 | 31.0 | 0.02 | | | 294 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 37

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 33 11.1 N | 118 23.1 W | 14/01/01 | 0515 | UTC | 1174 m | 270 | 05 kn | | | | | | | | | |
| 0 ISL | 14.58 | 14.58 | 33.543 | 24.940 | 300.5 | 0.000 | 5.91 | 102.1 | 3.6 | 0.31 | 0.1 | 0.01 | 0.70 | 0.26 | 0 | |
| 3 | 14.58 | 14.58 | 33.543 | 24.940 | 300.6 | 0.009 | 5.96 | 103.0 | 3.6 | 0.31 | 0.1 | 0.01 | 0.70 | 0.26 | 3 | 220 |
| 10 | 14.58 | 14.58 | 33.541 | 24.939 | 300.9 | 0.030 | 5.91 | 102.1 | 3.6 | 0.31 | 0.1 | 0.01 | 0.70 | 0.27 | 10 | 219 |
| 20 ISL | 14.49 | 14.49 | 33.528 | 24.948 | 300.3 | 0.060 | 5.91 | 101.9 | 3.5 | 0.32 | 0.1 | 0.01 | 0.79 | 0.50 | 20 | |
| 21 | 14.48 | 14.48 | 33.527 | 24.949 | 300.2 | 0.063 | 5.91 | 101.9 | 3.5 | 0.32 | 0.1 | 0.01 | 0.80 | 0.52 | 21 | 218 |
| 30 | 14.49 | 14.49 | 33.527 | 24.948 | 300.6 | 0.090 | 5.90 | 101.7 | 3.5 | 0.32 | 0.2 | 0.01 | 0.79 | 0.34 | 30 | 217 |
| 40 | 13.79 | 13.78 | 33.534 | 25.099 | 286.4 | 0.120 | 5.48 | 93.1 | 5.5 | 0.52 | 3.1 | 0.17 | 0.51 | 0.31 | 40 | 216 |
| 50 ISL | 12.47 | 12.46 | 33.520 | 25.352 | 262.6 | 0.147 | 4.90 | 81.0 | 8.8 | 0.85 | 8.0 | 0.12 | 0.42 | 0.32 | 50 | |
| 51 | 12.33 | 12.32 | 33.521 | 25.380 | 260.0 | 0.150 | 4.84 | 79.8 | 9.2 | 0.89 | 8.5 | 0.12 | 0.41 | 0.32 | 51 | 215 |
| 61 | 11.41 | 11.40 | 33.577 | 25.595 | 239.6 | 0.175 | 4.22 | 68.2 | 13.6 | 1.20 | 13.4 | 0.04 | 0.18 | 0.19 | 61 | 214 |
| 71 | 11.27 | 11.26 | 33.651 | 25.679 | 232.0 | 0.198 | 3.74 | 60.3 | 16.1 | 1.39 | 15.8 | 0.03 | 0.15 | 0.18 | 71 | 213 |
| 75 ISL | 11.18 | 11.17 | 33.684 | 25.721 | 228.0 | 0.207 | 3.56 | 57.3 | 17.5 | 1.47 | 16.8 | 0.03 | 0.12 | 0.17 | 75 | |
| 85 | 10.97 | 10.96 | 33.758 | 25.816 | 219.2 | 0.230 | 3.19 | 51.2 | 20.7 | 1.63 | 19.1 | 0.02 | 0.05 | 0.13 | 85 | 212 |
| 100 | 10.84 | 10.83 | 33.810 | 25.880 | 213.4 | 0.262 | 2.93 | 46.9 | 22.7 | 1.74 | 20.4 | 0.02 | 0.03 | 0.10 | 101 | 211 |
| 121 | 10.32 | 10.31 | 33.846 | 25.999 | 202.5 | 0.306 | 2.99 | 47.3 | 24.5 | 1.78 | 21.8 | 0.01 | 0.02 | 0.06 | 122 | 210 |
| 125 ISL | 10.24 | 10.23 | 33.866 | 26.029 | 199.8 | 0.314 | 2.91 | 46.0 | 25.3 | 1.82 | 22.3 | 0.01 | 0.02 | 0.06 | 126 | |
| 140 | 9.96 | 9.94 | 33.949 | 26.141 | 189.4 | 0.343 | 2.57 | 40.4 | 28.4 | 1.97 | 24.4 | 0.01 | 0.01 | 0.06 | 141 | 209 |
| 150 ISL | 9.77 | 9.75 | 33.989 | 26.204 | 183.5 | 0.362 | 2.46 | 38.5 | 30.1 | 2.03 | 25.4 | 0.01 | 0.01 | 0.06 | 151 | |
| 169 | 9.47 | 9.45 | 34.044 | 26.297 | 175.1 | 0.396 | 2.36 | 36.7 | 32.6 | 2.11 | 26.7 | 0.01 | 0.01 | 0.07 | 170 | 208 |
| 200 | 9.23 | 9.21 | 34.080 | 26.365 | 169.2 | 0.449 | 2.24 | 34.6 | 34.4 | 2.17 | 27.6 | 0.01 | 0.01 | 0.05 | 201 | 207 |
| 230 | 8.67 | 8.65 | 34.113 | 26.479 | 158.7 | 0.498 | 2.04 | 31.2 | 39.3 | 2.29 | 29.3 | 0.01 | | | 231 | 206 |
| 250 ISL | 8.43 | 8.40 | 34.126 | 26.527 | 154.5 | 0.530 | 1.91 | 29.0 | 41.6 | 2.35 | 30.2 | 0.01 | | | 251 | |
| 269 | 8.24 | 8.21 | 34.138 | 26.565 | 151.1 | 0.559 | 1.77 | 26.8 | 43.7 | 2.41 | 31.0 | 0.01 | | | 271 | 205 |
| 300 ISL | 7.90 | 7.87 | 34.170 | 26.641 | 144.2 | 0.604 | 1.46 | 21.9 | 48.8 | 2.56 | 32.6 | 0.01 | | | 302 | |
| 319 | 7.71 | 7.68 | 34.189 | 26.684 | 140.4 | 0.631 | 1.27 | 19.0 | 52.0 | 2.65 | 33.5 | 0.01 | | | 321 | 204 |
| 379 | 7.24 | 7.20 | 34.224 | 26.780 | 132.1 | 0.713 | 0.87 | 12.9 | 59.6 | 2.83 | 35.7 | 0.01 | | | 381 | 203 |
| 400 ISL | 7.11 | 7.07 | 34.242 | 26.812 | 129.2 | 0.741 | 0.75 | 11.1 | 62.4 | 2.93 | 36.3 | 0.01 | | | 403 | |
| 437 | 6.91 | 6.87 | 34.273 | 26.864 | 124.7 | 0.788 | 0.57 | 8.4 | 66.9 | 3.08 | 37.3 | 0.01 | | | 440 | 202 |
| 500 ISL | 6.55 | 6.50 | 34.293 | 26.929 | 119.2 | 0.864 | 0.43 | 6.3 | 72.5 | 3.10 | 38.6 | 0.00 | | | 503 | |
| 513 | 6.48 | 6.43 | 34.297 | 26.942 | 118.1 | 0.880 | 0.40 | 5.8 | 73.7 | 3.10 | 38.9 | 0.00 | | | 517 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 32 55.4 N | 118 55.9 W | 14/01/01 | 0013 | UTC | 1698 m | 300 | 11 kn | 300 05 06 | 1 | 1022.2 mb | 15.7 | C 13.1 C | 3/8 | AC | | |
| 0 ISL | 14.60 | 14.60 | 33.539 | 24.933 | 301.2 | 0.000 | 5.90 | 102.0 | 3.3 | 0.33 | 0.3 | 0.02 | 0.81 | 0.27 | 0 | |
| 2 | 14.60 | 14.60 | 33.539 | 24.933 | 301.2 | 0.006 | 5.90 | 102.0 | 3.3 | 0.33 | 0.3 | 0.02 | 0.81 | 0.27 | 2 | 220 |
| 10 ISL | 14.60 | 14.60 | 33.539 | 24.933 | 301.4 | 0.030 | 5.90 | 102.0 | 3.3 | 0.32 | 0.3 | 0.02 | 0.69 | 0.28 | 10 | |
| 11 | 14.60 | 14.60 | 33.539 | 24.933 | 301.5 | 0.033 | 5.90 | 102.0 | 3.3 | 0.32 | 0.3 | 0.02 | 0.68 | 0.28 | 11 | 219 |
| 20 | 14.54 | 14.54 | 33.541 | 24.948 | 300.4 | 0.060 | 5.90 | 101.8 | 3.5 | 0.32 | 0.3 | 0.01 | 0.76 | 0.37 | 20 | 218 |
| 30 ISL | 14.51 | 14.51 | 33.542 | 24.955 | 300.0 | 0.090 | 5.89 | 101.6 | 3.3 | 0.32 | 0.3 | 0.02 | 0.75 | 0.34 | 30 | |
| 31 | 14.51 | 14.51 | 33.542 | 24.955 | 300.0 | 0.093 | 5.89 | 101.6 | 3.3 | 0.32 | 0.3 | 0.02 | 0.75 | 0.34 | 31 | 217 |
| 39 | 14.40 | 14.39 | 33.532 | 24.971 | 298.7 | 0.117 | 5.81 | 100.0 | 3.5 | 0.35 | 0.6 | 0.02 | 0.67 | 0.31 | 39 | 216 |
| 50 ISL | 12.88 | 12.87 | 33.444 | 25.213 | 275.8 | 0.149 | 5.43 | 90.5 | 5.7 | 0.62 | 4.4 | 0.07 | 0.55 | 0.40 | 50 | |
| 51 | 12.72 | 12.71 | 33.438 | 25.240 | 273.3 | 0.152 | 5.39 | 89.5 | 6.0 | 0.65 | 4.8 | 0.07 | 0.54 | 0.41 | 51 | 215 |
| 60 | 12.03 | 12.02 | 33.451 | 25.382 | 259.9 | 0.176 | 5.11 | 83.7 | 7.8 | 0.81 | 7.6 | 0.03 | 0.36 | 0.30 | 60 | 214 |
| 71 | 11.48 | 11.47 | 33.500 | 25.523 | 246.8 | 0.203 | 4.69 | 75.9 | 10.7 | 1.03 | 11.1 | 0.02 | 0.22 | 0.24 | 71 | 213 |
| 75 ISL | 11.27 | 11.26 | 33.526 | 25.581 | 241.3 | 0.213 | 4.54 | 73.2 | 11.9 | 1.11 | 12.4 | 0.02 | 0.18 | 0.21 | 75 | |
| 86 | 10.81 | 10.80 | 33.605 | 25.725 | 227.8 | 0.239 | 4.12 | 65.8 | 15.1 | 1.30 | 15.5 | 0.01 | 0.09 | 0.13 | 86 | 212 |
| 100 | 10.70 | 10.69 | 33.697 | 25.817 | 219.4 | 0.270 | 3.64 | 58.0 | 18.2 | 1.49 | 18.0 | 0.01 | 0.05 | 0.09 | 100 | 211 |
| 121 | 10.38 | 10.37 | 33.903 | 26.033 | 199.3 | 0.314 | 2.67 | 42.3 | 25.6 | 1.88 | 22.8 | 0.01 | 0.01 | 0.05 | 122 | 210 |
| 125 ISL | 10.32 | 10.31 | 33.919 | 26.056 | 197.2 | 0.322 | 2.65 | 41.9 | 26.2 | 1.91 | 23.2 | 0.01 | 0.01 | 0.05 | 126 | |
| 141 | 10.08 | 10.06 | 33.964 | 26.133 | 190.2 | 0.353 | 2.55 | 40.1 | 27.8 | 1.97 | 24.3 | 0.00 | 0.01 | 0.05 | 142 | 209 |
| 150 ISL | 10.00 | 9.98 | 34.015 | 26.186 | 185.3 | 0.370 | 2.38 | 37.4 | 29.3 | 2.04 | 25.2 | 0.00 | 0.01 | 0.05 | 151 | |
| 169 | 9.77 | 9.75 | 34.104 | 26.295 | 175.4 | 0.404 | 2.06 | 32.2 | 32.4 | 2.18 | 26.8 | 0.00 | 0.00 | 0.04 | 170 | 208 |
| 198 | 9.02 | 9.00 | 34.074 | 26.394 | 166.4 | 0.454 | 2.27 | 34.9 | 34.6 | 2.16 | 27.8 | 0.00 | 0.01 | 0.04 | 199 | 207 |
| 200 ISL | 9.00 | 8.98 | 34.077 | 26.399 | 165.8 | 0.457 | 2.26 | 34.8 | 34.8 | 2.17 | 27.9 | 0.00 | | | 201 | |
| 220 | 8.85 | 8.83 | 34.120 | 26.457 | 160.7 | 0.490 | 2.08 | 31.9 | 37.3 | 2.25 | 28.8 | 0.00 | | | 221 | 206 |
| 250 ISL | 8.64 | 8.61 | 34.150 | 26.514 | 155.9 | 0.537 | 1.90 | 29.0 | 40.0 | 2.35 | 29.8 | 0.00 | | | 251 | |
| 267 | 8.50 | 8.47 | 34.158 | 26.542 | 153.4 | 0.564 | 1.80 | 27.4 | 41.7 | 2.40 | 30.4 | 0.00 | | | 269 | 205 |
| 300 ISL | 8.02 | 7.99 | 34.170 | 26.624 | 146.0 | 0.613 | 1.55 | 23.3 | 46.8 | 2.53 | 32.2 | 0.00 | | | 302 | |
| 319 | 7.74 | 7.71 | 34.177 | 26.671 | 141.7 | 0.640 | 1.40 | 20.9 | 50.1 | 2.61 | 33.2 | 0.00 | | | 321 | 204 |
| 379 | 7.23 | 7.19 | 34.226 | 26.782 | 131.8 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.50 | 14.50 | 33.486 | 24.913 | 303.1 | 0.000 | 5.90 | 101.7 | 3.0 | 0.33 | 0.3 | 0.03 | | | 0 | |
| 2 A | 14.50 | 14.50 | 33.486 | 24.913 | 303.1 | 0.006 | 5.90 | 101.7 | 3.0 | 0.33 | 0.3 | 0.03 | | | 2 | 222 |
| 10 ISL | 14.46 | 14.46 | 33.485 | 24.921 | 302.6 | 0.030 | 5.87 | 101.1 | 3.0 | 0.32 | 0.3 | 0.03 | | | 10 | |
| 14 A | 14.43 | 14.43 | 33.485 | 24.927 | 302.1 | 0.042 | 5.86 | 100.9 | 3.0 | 0.32 | 0.3 | 0.03 | | | 14 | 221 |
| 20 ISL | 14.42 | 14.42 | 33.485 | 24.930 | 302.0 | 0.061 | 5.87 | 101.0 | 2.8 | 0.32 | 0.3 | 0.03 | | | 20 | |
| 21 | 14.42 | 14.42 | 33.485 | 24.930 | 302.1 | 0.064 | 5.87 | 101.0 | 2.8 | 0.32 | 0.3 | 0.03 | 0.54 | 0.19 | 21 | 220 |
| 28 A | 14.41 | 14.41 | 33.486 | 24.933 | 302.0 | 0.085 | 5.86 | 100.8 | 2.8 | 0.33 | 0.3 | 0.04 | 0.55 | 0.20 | 28 | 219 |
| 30 ISL | 14.41 | 14.41 | 33.486 | 24.933 | 302.0 | 0.091 | 5.86 | 100.8 | 2.8 | 0.33 | 0.3 | 0.04 | 0.55 | 0.20 | 30 | |
| 37 | 14.40 | 14.39 | 33.486 | 24.935 | 302.0 | 0.112 | 5.85 | 100.7 | 2.9 | 0.33 | 0.4 | 0.04 | 0.57 | 0.21 | 37 | 218 |
| 45 A | 13.70 | 13.69 | 33.446 | 25.050 | 291.3 | 0.136 | 5.68 | 96.3 | 4.3 | 0.47 | 2.3 | 0.10 | 0.44 | 0.27 | 45 | 217 |
| 50 ISL | 12.87 | 12.86 | 33.412 | 25.190 | 278.0 | 0.150 | 5.49 | 91.5 | 6.0 | 0.62 | 4.4 | 0.08 | 0.44 | 0.34 | 50 | |
| 52 | 12.57 | 12.56 | 33.403 | 25.242 | 273.1 | 0.155 | 5.42 | 89.7 | 6.6 | 0.67 | 5.2 | 0.07 | 0.44 | 0.36 | 52 | 216 |
| 59 A | 12.30 | 12.29 | 33.403 | 25.294 | 268.3 | 0.174 | 5.34 | 87.9 | 6.9 | 0.73 | 6.0 | 0.07 | 0.36 | 0.34 | 59 | 215 |
| 70 | 11.32 | 11.31 | 33.451 | 25.514 | 247.6 | 0.203 | 4.91 | 79.2 | 10.0 | 0.98 | 10.4 | 0.02 | 0.19 | 0.21 | 70 | 214 |
| 75 ISL | 11.04 | 11.03 | 33.475 | 25.583 | 241.1 | 0.215 | 4.75 | 76.1 | 11.3 | 1.07 | 11.9 | 0.02 | 0.15 | 0.17 | 75 | |
| 83 A | 10.69 | 10.68 | 33.522 | 25.682 | 231.8 | 0.234 | 4.49 | 71.5 | 13.5 | 1.20 | 14.0 | 0.02 | 0.10 | 0.12 | 83 | 213 |
| 92 | 10.27 | 10.26 | 33.603 | 25.818 | 219.1 | 0.254 | 4.14 | 65.3 | 16.6 | 1.37 | 16.7 | 0.01 | 0.06 | 0.08 | 92 | 212 |
| 100 ISL | 10.05 | 10.04 | 33.681 | 25.916 | 209.9 | 0.271 | 3.84 | 60.3 | 19.2 | 1.50 | 18.9 | 0.01 | 0.03 | 0.05 | 100 | |
| 101 | 10.03 | 10.02 | 33.690 | 25.926 | 208.9 | 0.273 | 3.80 | 59.7 | 19.5 | 1.52 | 19.1 | 0.01 | 0.03 | 0.05 | 101 | 211 |
| 119 | 9.70 | 9.69 | 33.799 | 26.067 | 195.9 | 0.310 | 3.37 | 52.6 | 23.4 | 1.71 | 22.1 | 0.01 | 0.01 | 0.03 | 120 | 210 |
| 125 ISL | 9.61 | 9.60 | 33.840 | 26.114 | 191.5 | 0.321 | 3.23 | 50.3 | 24.8 | 1.77 | 22.9 | 0.01 | 0.01 | 0.03 | 126 | |
| 138 | 9.42 | 9.40 | 33.923 | 26.210 | 182.6 | 0.346 | 2.96 | 45.9 | 27.6 | 1.87 | 24.5 | 0.00 | 0.00 | 0.03 | 139 | 209 |
| 150 ISL | 9.23 | 9.21 | 33.971 | 26.279 | 176.3 | 0.367 | 2.81 | 43.4 | 29.7 | 1.94 | 25.6 | 0.00 | 0.00 | 0.03 | 151 | |
| 170 | 8.89 | 8.87 | 34.024 | 26.375 | 167.5 | 0.402 | 2.64 | 40.5 | 32.9 | 2.04 | 27.0 | 0.01 | 0.00 | 0.02 | 171 | 208 |
| 200 | 8.35 | 8.33 | 34.079 | 26.501 | 155.9 | 0.450 | 2.32 | 35.2 | 38.7 | 2.22 | 29.1 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 228 | 8.00 | 7.98 | 34.104 | 26.574 | 149.4 | 0.493 | 2.05 | 30.8 | 43.1 | 2.35 | 30.6 | 0.01 | 0.00 | 0.02 | 229 | 206 |
| 250 ISL | 7.68 | 7.66 | 34.108 | 26.624 | 144.8 | 0.525 | 1.90 | 28.4 | 46.7 | 2.44 | 31.9 | 0.01 | | | 251 | |
| 269 | 7.44 | 7.41 | 34.114 | 26.663 | 141.3 | 0.552 | 1.76 | 26.1 | 49.7 | 2.51 | 32.9 | 0.01 | | | 271 | 205 |
| 300 ISL | 7.31 | 7.28 | 34.163 | 26.721 | 136.4 | 0.595 | 1.33 | 19.7 | 54.2 | 2.66 | 34.3 | 0.00 | | | 302 | |
| 318 | 7.27 | 7.24 | 34.195 | 26.752 | 133.7 | 0.620 | 1.08 | 16.0 | 56.7 | 2.75 | 35.0 | 0.00 | | | 320 | 204 |
| 379 | 6.91 | 6.87 | 34.244 | 26.841 | 126.0 | 0.699 | 0.71 | 10.4 | 63.9 | 2.94 | 36.9 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.77 | 6.73 | 34.256 | 26.869 | 123.5 | 0.725 | 0.62 | 9.1 | 66.6 | 2.99 | 37.6 | 0.00 | | | 403 | |
| 440 | 6.48 | 6.44 | 34.277 | 26.925 | 118.6 | 0.774 | 0.47 | 6.8 | 71.8 | 3.07 | 38.8 | 0.00 | | | 443 | 202 |
| 500 ISL | 6.03 | 5.99 | 34.314 | 27.013 | 110.7 | 0.842 | 0.32 | 4.6 | 80.1 | 3.18 | 40.4 | 0.00 | | | 503 | |
| 514 | 5.93 | 5.89 | 34.323 | 27.032 | 108.9 | 0.858 | 0.28 | 4.0 | 82.0 | 3.20 | 40.8 | 0.00 | | | 518 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.70 | 14.70 | 33.492 | 24.875 | 306.7 | 0.000 | 5.82 | 100.8 | 3.2 | 0.31 | 0.1 | 0.02 | 0.48 | 0.17 | 0 | |
| 3 | 14.70 | 14.70 | 33.492 | 24.875 | 306.7 | 0.009 | 5.82 | 100.8 | 3.2 | 0.31 | 0.1 | 0.02 | 0.48 | 0.17 | 3 | 220 |
| 10 ISL | 14.70 | 14.70 | 33.492 | 24.875 | 306.9 | 0.031 | 5.80 | 100.4 | 3.0 | 0.31 | 0.1 | 0.02 | 0.49 | 0.17 | 10 | 219 |
| 20 ISL | 14.70 | 14.70 | 33.492 | 24.876 | 307.2 | 0.061 | 5.80 | 100.4 | 3.0 | 0.31 | 0.1 | 0.02 | 0.50 | 0.17 | 20 | |
| 21 | 14.70 | 14.70 | 33.492 | 24.876 | 307.2 | 0.064 | 5.80 | 100.4 | 3.0 | 0.31 | 0.1 | 0.02 | 0.50 | 0.17 | 21 | 218 |
| 30 | 14.69 | 14.69 | 33.494 | 24.880 | 307.1 | 0.092 | 5.80 | 100.4 | 3.0 | 0.31 | 0.1 | 0.02 | 0.49 | 0.18 | 30 | 217 |
| 41 | 14.55 | 14.54 | 33.502 | 24.916 | 304.0 | 0.126 | 5.81 | 100.3 | 2.9 | 0.31 | 0.2 | 0.03 | 0.49 | 0.18 | 41 | 216 |
| 50 ISL | 14.16 | 14.15 | 33.488 | 24.988 | 297.4 | 0.153 | 5.76 | 98.6 | 3.2 | 0.36 | 0.8 | 0.12 | 0.38 | 0.19 | 50 | |
| 51 | 14.08 | 14.07 | 33.483 | 25.000 | 296.2 | 0.156 | 5.75 | 98.3 | 3.2 | 0.37 | 0.9 | 0.13 | 0.36 | 0.19 | 51 | 215 |
| 61 | 12.59 | 12.58 | 33.365 | 25.209 | 276.5 | 0.184 | 5.53 | 91.6 | 5.5 | 0.61 | 4.1 | 0.10 | 0.24 | 0.23 | 61 | 214 |
| 71 | 11.62 | 11.61 | 33.362 | 25.390 | 259.4 | 0.211 | 5.27 | 85.5 | 7.5 | 0.81 | 7.4 | 0.02 | 0.18 | 0.19 | 71 | 213 |
| 75 ISL | 11.34 | 11.33 | 33.395 | 25.467 | 252.2 | 0.221 | 5.08 | 81.9 | 8.8 | 0.91 | 9.1 | 0.02 | 0.15 | 0.17 | 75 | |
| 86 | 10.70 | 10.69 | 33.522 | 25.680 | 232.1 | 0.248 | 4.46 | 71.0 | 13.2 | 1.20 | 14.1 | 0.01 | 0.09 | 0.12 | 86 | 212 |
| 100 | 9.89 | 9.88 | 33.689 | 25.949 | 206.7 | 0.279 | 3.70 | 57.9 | 20.3 | 1.57 | 20.1 | 0.01 | 0.03 | 0.05 | 100 | 211 |
| 120 | 9.45 | 9.44 | 33.801 | 26.109 | 191.8 | 0.319 | 3.28 | 50.9 | 25.2 | 1.77 | 23.4 | 0.01 | 0.01 | 0.03 | 121 | 210 |
| 125 ISL | 9.32 | 9.31 | 33.838 | 26.160 | 187.1 | 0.328 | 3.14 | 48.6 | 26.8 | 1.83 | 24.4 | 0.01 | 0.01 | 0.03 | 126 | |
| 139 | 8.97 | 8.96 | 33.936 | 26.292 | 174.7 | 0.353 | 2.75 | 42.2 | 31.3 | 1.99 | 26.8 | 0.00 | 0.00 | 0.04 | 140 | 209 |
| 150 ISL | 8.76 | 8.74 | 33.978 | 26.358 | 168.6 | 0.372 | 2.56 | 39.1 | 33.7 | 2.07 | 28.0 | 0.00 | 0.00 | 0.04 | 151 | |
| 170 | 8.46 | 8.44 | 34.018 | 26.436 | 161.5 | 0.405 | 2.36 | 35.8 | 36.8 | 2.17 | 29.3 | 0.00 | 0.00 | 0.03 | 171 | 208 |
| 200 | 8.16 | 8.14 | 34.042 | 26.501 | 155.8 | 0.453 | 2.24 | 33.8 | 39.7 | 2.25 | 30.3 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 231 | 7.64 | 7.62 | 34.066 | 26.596 | 147.1 | 0.500 | 1.99 | 29.7 | 45.6 | 2.39 | 32.1 | 0.00 | | | 232 | 206 |
| 250 ISL | 7.42 | 7.40 | 34.072 | 26.633 | 143.9 | 0.527 | 1.88 | 27.9 | 48.3 | 2.45 | 32.9 | 0.00 | | | 251 | |
| 269 | 7.22 | 7.19 | 34.074 | 26.663 | 141.2 | 0.555 | 1.77 | 26.1 | 51.0 | 2.51 | 33.6 | 0.00 | | | 271 | 205 |
| 300 ISL | 6.79 | 6.76 | 34.077 | 26.724 | 135.6 | 0.597 | 1.58 | 23.1 | 56.7 | 2.62 | 35.2 | 0.00 | | | 302 | |
| 320 | 6.54 | 6.51 | 34.085 | 26. | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 4.9 N | 120 38.3 W | 13/01/01 | 0700 | UTC | 3815 m | 320 | 18 kn | | 1020.1 mb | 17.0 | C 12.1 | C | | | |
| 0 | ISL | 15.12 | 15.12 | 33.379 | 24.697 | 323.6 | 0.000 | 5.77 | 100.7 | 3.7 | 0.30 | 0.0 | 0.00 | 0.27 | 0.10 | 0 |
| 4 | | 15.12 | 15.12 | 33.379 | 24.697 | 323.7 | 0.013 | 5.77 | 100.7 | 3.7 | 0.30 | 0.0 | 0.00 | 0.27 | 0.10 | 4 220 |
| 10 | ISL | 15.12 | 15.12 | 33.379 | 24.698 | 323.9 | 0.032 | 5.79 | 101.0 | 3.7 | 0.30 | 0.0 | 0.00 | 0.27 | 0.10 | 10 |
| 15 | | 15.12 | 15.12 | 33.379 | 24.698 | 324.0 | 0.049 | 5.81 | 101.4 | 3.7 | 0.30 | 0.0 | 0.00 | 0.27 | 0.10 | 15 219 |
| 20 | ISL | 15.12 | 15.12 | 33.379 | 24.698 | 324.2 | 0.065 | 5.80 | 101.2 | 3.7 | 0.30 | 0.0 | 0.00 | 0.28 | 0.10 | 20 |
| 30 | | 15.13 | 15.13 | 33.378 | 24.695 | 324.7 | 0.097 | 5.77 | 100.7 | 3.7 | 0.30 | 0.0 | 0.00 | 0.29 | 0.11 | 30 218 |
| 47 | | 15.13 | 15.12 | 33.378 | 24.696 | 325.2 | 0.152 | 5.77 | 100.7 | 3.5 | 0.30 | 0.0 | 0.00 | 0.29 | 0.10 | 47 217 |
| 50 | ISL | 15.09 | 15.08 | 33.381 | 24.707 | 324.2 | 0.162 | 5.77 | 100.6 | 3.5 | 0.30 | 0.0 | 0.00 | 0.31 | 0.11 | 50 |
| 60 | | 14.97 | 14.96 | 33.390 | 24.740 | 321.3 | 0.194 | 5.79 | 100.7 | 3.6 | 0.31 | 0.1 | 0.01 | 0.38 | 0.17 | 60 216 |
| 75 | ISL | 12.90 | 12.89 | 33.237 | 25.050 | 292.0 | 0.240 | 5.88 | 97.9 | 4.8 | 0.47 | 1.5 | 0.22 | 0.40 | 0.36 | 75 |
| 76 | | 12.74 | 12.73 | 33.228 | 25.074 | 289.7 | 0.243 | 5.88 | 97.6 | 4.9 | 0.48 | 1.6 | 0.23 | 0.40 | 0.37 | 76 215 |
| 86 | | 11.94 | 11.93 | 33.204 | 25.208 | 277.1 | 0.272 | 5.77 | 94.1 | 5.7 | 0.56 | 3.1 | 0.12 | 0.28 | 0.28 | 86 214 |
| 93 | | 10.90 | 10.89 | 33.254 | 25.436 | 255.4 | 0.290 | 5.46 | 87.1 | 7.8 | 0.77 | 6.9 | 0.02 | 0.15 | 0.17 | 93 213 |
| 100 | ISL | 10.42 | 10.41 | 33.304 | 25.559 | 243.8 | 0.308 | 5.22 | 82.5 | 9.6 | 0.93 | 9.7 | 0.01 | 0.10 | 0.15 | 100 |
| 106 | | 10.22 | 10.21 | 33.351 | 25.630 | 237.2 | 0.322 | 5.03 | 79.1 | 11.2 | 1.06 | 11.8 | 0.01 | 0.09 | 0.14 | 106 212 |
| 114 | | 9.93 | 9.92 | 33.439 | 25.747 | 226.1 | 0.341 | 4.71 | 73.7 | 14.1 | 1.24 | 14.7 | 0.01 | 0.05 | 0.07 | 115 211 |
| 125 | ISL | 9.69 | 9.68 | 33.508 | 25.841 | 217.4 | 0.365 | 4.42 | 68.8 | 16.6 | 1.37 | 16.8 | 0.00 | 0.03 | 0.05 | 126 |
| 126 | | 9.68 | 9.67 | 33.515 | 25.849 | 216.7 | 0.367 | 4.39 | 68.3 | 16.8 | 1.38 | 17.0 | 0.00 | 0.03 | 0.05 | 127 210 |
| 140 | | 9.50 | 9.48 | 33.726 | 26.043 | 198.5 | 0.396 | 3.56 | 55.3 | 23.3 | 1.69 | 22.0 | 0.00 | 0.01 | 0.03 | 141 209 |
| 150 | ISL | 9.44 | 9.42 | 33.832 | 26.136 | 189.9 | 0.416 | 3.20 | 49.6 | 26.0 | 1.81 | 23.8 | 0.00 | 0.01 | 0.03 | 151 |
| 166 | | 9.32 | 9.30 | 33.947 | 26.246 | 179.8 | 0.445 | 2.84 | 44.0 | 29.1 | 1.92 | 25.4 | 0.00 | 0.00 | 0.03 | 167 208 |
| 195 | | 8.70 | 8.68 | 34.042 | 26.419 | 163.8 | 0.495 | 2.53 | 38.6 | 35.2 | 2.10 | 27.9 | 0.00 | 0.00 | 0.02 | 196 207 |
| 200 | ISL | 8.63 | 8.61 | 34.048 | 26.434 | 162.4 | 0.503 | 2.51 | 38.3 | 35.8 | 2.12 | 28.1 | 0.00 | | | 201 |
| 229 | | 8.23 | 8.21 | 34.060 | 26.505 | 156.0 | 0.550 | 2.42 | 36.6 | 39.2 | 2.20 | 29.2 | 0.00 | | | 230 206 |
| 250 | ISL | 7.86 | 7.84 | 34.064 | 26.563 | 150.7 | 0.582 | 2.29 | 34.3 | 43.0 | 2.28 | 30.4 | 0.00 | | | 251 |
| 268 | | 7.55 | 7.52 | 34.068 | 26.611 | 146.3 | 0.608 | 2.15 | 32.0 | 46.4 | 2.36 | 31.5 | 0.00 | | | 270 205 |
| 300 | ISL | 7.17 | 7.14 | 34.080 | 26.675 | 140.6 | 0.654 | 1.89 | 27.9 | 51.5 | 2.49 | 33.2 | 0.00 | | | 302 |
| 319 | | 6.99 | 6.96 | 34.091 | 26.708 | 137.6 | 0.681 | 1.71 | 25.1 | 54.5 | 2.57 | 34.2 | 0.00 | | | 321 204 |
| 377 | | 6.54 | 6.51 | 34.153 | 26.818 | 127.7 | 0.758 | 1.04 | 15.1 | 64.8 | 2.85 | 37.2 | 0.00 | | | 379 203 |
| 400 | ISL | 6.40 | 6.36 | 34.170 | 26.850 | 124.9 | 0.787 | 0.87 | 12.6 | 67.9 | 2.93 | 38.0 | 0.00 | | | 403 |
| 438 | | 6.22 | 6.18 | 34.199 | 26.897 | 120.9 | 0.834 | 0.67 | 9.7 | 72.2 | 3.03 | 39.1 | 0.00 | | | 441 202 |
| 500 | ISL | 6.03 | 5.99 | 34.273 | 26.980 | 113.8 | 0.906 | 0.42 | 6.0 | 78.4 | 3.16 | 40.1 | 0.00 | | | 503 |
| 517 | | 5.98 | 5.93 | 34.294 | 27.003 | 111.8 | 0.925 | 0.35 | 5.0 | 80.1 | 3.19 | 40.4 | 0.00 | | | 520 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 31 | 45.5 N | 121 18.4 W | 13/01/01 | 0027 | UTC | 3640 m | 320 | 25 kn | 310 17 07 | 1 | 1016.1 mb | 16.3 | C 13.0 | C | 7/8 | CU |
| 0 | ISL | 16.43 | 16.43 | 33.691 | 24.643 | 328.7 | 0.000 | 5.64 | 101.2 | 2.6 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 0 |
| 3 | | 16.43 | 16.43 | 33.691 | 24.644 | 328.8 | 0.010 | 5.64 | 101.2 | 2.6 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 3 220 |
| 10 | ISL | 16.43 | 16.43 | 33.691 | 24.644 | 329.0 | 0.033 | 5.63 | 101.0 | 2.6 | 0.25 | 0.0 | 0.00 | 0.16 | 0.05 | 10 |
| 16 | | 16.43 | 16.43 | 33.692 | 24.645 | 329.1 | 0.053 | 5.62 | 100.8 | 2.6 | 0.25 | 0.0 | 0.00 | 0.16 | 0.05 | 16 219 |
| 20 | ISL | 16.43 | 16.43 | 33.694 | 24.646 | 329.1 | 0.066 | 5.62 | 100.8 | 2.6 | 0.25 | 0.0 | 0.00 | 0.16 | 0.05 | 20 |
| 30 | ISL | 16.44 | 16.44 | 33.697 | 24.647 | 329.4 | 0.099 | 5.62 | 100.9 | 2.5 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 30 |
| 31 | | 16.44 | 16.44 | 33.697 | 24.647 | 329.4 | 0.102 | 5.62 | 100.9 | 2.5 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 31 218 |
| 45 | | 16.44 | 16.43 | 33.690 | 24.642 | 330.3 | 0.148 | 5.64 | 101.2 | 2.5 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 45 217 |
| 50 | ISL | 16.44 | 16.43 | 33.690 | 24.642 | 330.5 | 0.165 | 5.63 | 101.0 | 2.5 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 50 |
| 63 | | 16.44 | 16.43 | 33.691 | 24.643 | 330.8 | 0.208 | 5.62 | 100.8 | 2.5 | 0.25 | 0.0 | 0.00 | 0.17 | 0.05 | 63 216 |
| 75 | ISL | 16.03 | 16.02 | 33.700 | 24.745 | 321.5 | 0.247 | 5.73 | 102.0 | 2.6 | 0.25 | 0.0 | 0.00 | 0.21 | 0.10 | 75 |
| 76 | | 15.96 | 15.95 | 33.701 | 24.761 | 320.0 | 0.250 | 5.74 | 102.0 | 2.6 | 0.25 | 0.0 | 0.00 | 0.22 | 0.11 | 76 215 |
| 87 | | 14.62 | 14.61 | 33.710 | 25.063 | 291.4 | 0.284 | 5.78 | 100.0 | 3.1 | 0.29 | 0.1 | 0.04 | 0.31 | 0.22 | 87 214 |
| 96 | | 14.34 | 14.33 | 33.704 | 25.118 | 286.4 | 0.310 | 5.73 | 98.6 | 3.3 | 0.31 | 0.4 | 0.09 | 0.28 | 0.21 | 96 213 |
| 100 | ISL | 13.89 | 13.88 | 33.666 | 25.183 | 280.3 | 0.321 | 5.69 | 97.0 | 3.6 | 0.35 | 0.8 | 0.09 | 0.26 | 0.21 | 100 |
| 105 | | 13.22 | 13.21 | 33.668 | 25.183 | 280.3 | 0.321 | 5.64 | 94.8 | 4.0 | 0.41 | 1.5 | 0.09 | 0.23 | 0.20 | 105 212 |
| 116 | | 11.94 | 11.93 | 33.492 | 25.433 | 256.5 | 0.364 | 5.57 | 91.0 | 5.3 | 0.56 | 3.8 | 0.02 | 0.16 | 0.17 | 117 211 |
| 125 | ISL | 11.52 | 11.50 | 33.487 | 25.507 | 249.6 | 0.387 | 5.48 | 88.8 | 6.1 | 0.64 | 5.2 | 0.01 | 0.13 | 0.15 | 126 |
| 127 | | 11.45 | 11.43 | 33.489 | 25.521 | 248.3 | 0.392 | 5.46 | 88.3 | 6.3 | 0.66 | 5.6 | 0.01 | 0.13 | 0.14 | 128 210 |
| 138 | | 10.60 | 10.58 | 33.455 | 25.646 | 236.4 | 0.418 | 5.29 | 84.0 | 8.6 | 0.85 | 8.6 | 0.01 | 0.08 | 0.10 | 139 209 |
| 150 | ISL | 10.04 | 10.02 | 33.518 | 25.791 | 222.8 | 0.446 | 4.83 | 75.8 | 12.8 | 1.11 | 12.9 | 0.01 | 0.05 | 0.07 | 151 |
| 166 | | 9.60 | 9.58 | 33.665 | 25.980 | 205.1 | 0.480 | 4.13 | 64.2 | 19.0 | 1.45 | 18.5 | 0.00 | 0.02 | 0.04 | 167 208 |
| 196 | | 9.02 | 9.00 | 33.922 | 26.275 | 177.6 | 0.537 | 3.33 | 51.2 | 28.0 | 1.80 | 24.4 | 0.00 | 0.00 | 0.04 | 197 207 |
| 200 | ISL | 8.94 | 8.92 | 33.938 | 26.300 | 175.2 | 0.544 | 3.29 | 50.5 | 28.8 | 1.82 | 24.8 | 0.00 | | | 201 |
| 232 | | 8.32 | 8.30 | 3 | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|-------|-----------|--------|--------|--------|--------|------|------|
| 31 25.4 N | 121 59.6 W | 12/01/01 | 1745 | UTC | 3841 m | 010 | 30 kn | 300 16 09 | 1 | 1015.8 mb | 14.5 C | 12.2 C | 23m | 4/8 | AC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 16.77 | 16.77 | 33.792 | 24.642 | 328.9 | 0.000 | 5.59 | 101.0 | 2.9 | 0.25 | 0.0 | 0.00 | 0.14 | 0.04 | 0 | |
| 3 A | 16.77 | 16.77 | 33.792 | 24.642 | 328.9 | 0.010 | 5.59 | 101.0 | 2.9 | 0.25 | 0.0 | 0.00 | 0.14 | 0.04 | 3 | 222 |
| 10 ISL | 16.77 | 16.77 | 33.791 | 24.642 | 329.2 | 0.033 | 5.60 | 101.2 | 2.9 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 10 | |
| 14 A | 16.77 | 16.77 | 33.790 | 24.641 | 329.4 | 0.046 | 5.61 | 101.4 | 2.9 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 14 | 220 |
| 15 | 16.77 | 16.77 | 33.792 | 24.643 | 329.3 | 0.049 | 5.76 | U 104.1 | U 2.9 | 0.27 | 0.0 | 0.00 | 0.14 | 0.04 | 15 | 221 |
| 20 ISL | 16.77 | 16.77 | 33.791 | 24.642 | 329.5 | 0.066 | 5.60 | 101.2 | 2.9 | 0.26 | 0.0 | 0.00 | 0.14 | 0.04 | 20 | |
| 30 ISL | 16.77 | 16.77 | 33.789 | 24.641 | 330.0 | 0.099 | 5.58 | 100.8 | 2.9 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 30 | |
| 31 A | 16.77 | 16.76 | 33.789 | 24.641 | 330.0 | 0.102 | 5.58 | 100.8 | 2.9 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 31 | 219 |
| 38 | 16.79 | 16.78 | 33.797 | 24.643 | 330.1 | 0.125 | 5.58 | 100.9 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 38 | 218 |
| 48 A | 16.81 | 16.80 | 33.805 | 24.645 | 330.2 | 0.158 | 5.58 | 100.9 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 48 | 217 |
| 50 ISL | 16.81 | 16.80 | 33.803 | 24.643 | 330.4 | 0.165 | 5.58 | 100.9 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 50 | |
| 59 A | 16.80 | 16.79 | 33.796 | 24.641 | 331.0 | 0.195 | 5.57 | 100.7 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 59 | 216 |
| 74 | 16.79 | 16.78 | 33.811 | 24.655 | 330.1 | 0.244 | 5.59 | 101.1 | 2.8 | 0.24 | 0.0 | 0.00 | 0.15 | 0.05 | 74 | 215 |
| 75 ISL | 16.67 | 16.66 | 33.809 | 24.681 | 327.6 | 0.247 | 5.61 | 101.2 | 2.8 | 0.24 | 0.0 | 0.00 | 0.16 | 0.06 | 75 | |
| 84 A | 15.61 | 15.60 | 33.811 | 24.925 | 304.6 | 0.276 | 5.76 | 101.7 | 3.3 | 0.25 | 0.0 | 0.01 | 0.26 | 0.18 | 84 | 214 |
| 95 | 15.26 | 15.25 | 33.879 | 25.055 | 292.5 | 0.309 | 5.65 | 99.1 | 3.4 | 0.27 | 0.1 | 0.06 | 0.25 | 0.18 | 95 | 213 |
| 100 ISL | 15.02 | 15.00 | 33.901 | 25.124 | 286.0 | 0.323 | 5.58 | 97.4 | 3.5 | 0.29 | 0.4 | 0.11 | 0.24 | 0.19 | 100 | |
| 104 | 14.79 | 14.77 | 33.908 | 25.180 | 280.9 | 0.335 | 5.53 | 96.1 | 3.7 | 0.32 | 0.7 | 0.14 | 0.23 | 0.19 | 104 | 212 |
| 115 | 13.98 | 13.96 | 33.846 | 25.304 | 269.2 | 0.365 | 5.41 | 92.5 | 4.3 | 0.41 | 2.1 | 0.06 | 0.19 | 0.16 | 116 | 211 |
| 125 | 13.63 | 13.61 | 33.809 | 25.347 | 265.3 | 0.392 | 5.36 | 90.9 | 4.7 | 0.46 | 2.9 | 0.04 | 0.16 | 0.14 | 126 | 210 |
| 142 | 12.27 | 12.25 | 33.718 | 25.546 | 246.5 | 0.435 | 5.21 | 85.9 | 6.5 | 0.63 | 5.7 | 0.01 | 0.09 | 0.09 | 143 | 209 |
| 150 ISL | 11.54 | 11.52 | 33.644 | 25.626 | 239.0 | 0.454 | 5.17 | 83.8 | 7.8 | 0.73 | 7.4 | 0.01 | 0.07 | 0.07 | 151 | |
| 165 | 10.33 | 10.31 | 33.568 | 25.781 | 224.1 | 0.489 | 4.99 | 78.8 | 11.3 | 0.97 | 11.2 | 0.00 | 0.04 | 0.05 | 166 | 208 |
| 193 | 9.43 | 9.41 | 33.884 | 26.179 | 186.7 | 0.547 | 3.79 | 58.8 | 23.3 | 1.57 | 21.1 | 0.00 | 0.00 | 0.02 | 194 | 207 |
| 200 ISL | 9.30 | 9.28 | 33.920 | 26.228 | 182.1 | 0.560 | 3.64 | 56.3 | 24.9 | 1.64 | 22.2 | 0.00 | | | 201 | |
| 230 | 8.84 | 8.82 | 33.985 | 26.353 | 170.8 | 0.613 | 3.25 | 49.8 | 30.1 | 1.84 | 25.0 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.44 | 8.41 | 34.012 | 26.436 | 163.1 | 0.646 | 2.97 | 45.1 | 34.5 | 1.98 | 27.0 | 0.00 | | | 251 | |
| 269 | 8.05 | 8.02 | 34.027 | 26.507 | 156.5 | 0.676 | 2.73 | 41.1 | 38.6 | 2.11 | 28.8 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.53 | 7.50 | 34.041 | 26.594 | 148.5 | 0.724 | 2.42 | 36.0 | 44.3 | 2.27 | 30.9 | 0.00 | | | 302 | |
| 323 | 7.21 | 7.18 | 34.049 | 26.645 | 143.8 | 0.757 | 2.20 | 32.5 | 48.2 | 2.38 | 32.2 | 0.00 | | | 325 | 204 |
| 379 | 6.72 | 6.69 | 34.087 | 26.742 | 135.1 | 0.835 | 1.56 | 22.8 | 57.5 | 2.64 | 35.4 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.52 | 6.48 | 34.103 | 26.782 | 131.5 | 0.863 | 1.35 | 19.6 | 61.5 | 2.73 | 36.6 | 0.00 | | | 402 | |
| 442 | 6.16 | 6.12 | 34.137 | 26.856 | 124.8 | 0.917 | 0.98 | 14.1 | 69.2 | 2.89 | 38.7 | 0.00 | | | 445 | 202 |
| 500 ISL | 5.85 | 5.81 | 34.192 | 26.938 | 117.5 | 0.987 | 0.64 | 9.2 | 77.1 | 3.03 | 40.2 | 0.00 | | | 503 | |
| 514 | 5.77 | 5.73 | 34.205 | 26.959 | 115.6 | 1.004 | 0.56 | 8.0 | 79.0 | 3.07 | 40.6 | 0.00 | | | 517 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 5.3 N | 122 39.7 W | 12/01/01 | 0759 | UTC | 3993 m | 290 | 18 kn | 300 16 09 | 1 | 1015.2 mb | 15.5 C | 11.5 C | 23m | 4/8 | AC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 17.00 | 17.00 | 33.850 | 24.633 | 329.7 | 0.000 | 5.54 | 100.6 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.04 | 0 | |
| 2 | 17.00 | 17.00 | 33.850 | 24.633 | 329.8 | 0.007 | 5.54 | 100.6 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.04 | 2 | 221 |
| 10 ISL | 17.01 | 17.01 | 33.849 | 24.630 | 330.4 | 0.033 | 5.53 | 100.5 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 10 | |
| 16 | 17.01 | 17.01 | 33.849 | 24.630 | 330.5 | 0.053 | 5.53 | 100.5 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 16 | 220 |
| 20 ISL | 17.01 | 17.01 | 33.849 | 24.630 | 330.7 | 0.066 | 5.53 | 100.5 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 20 | |
| 30 ISL | 17.01 | 17.01 | 33.849 | 24.631 | 331.0 | 0.099 | 5.54 | 100.6 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 30 | |
| 32 | 17.01 | 17.00 | 33.849 | 24.631 | 331.0 | 0.106 | 5.54 | 100.6 | 2.6 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 32 | 219 |
| 47 | 17.01 | 17.00 | 33.850 | 24.632 | 331.4 | 0.155 | 5.55 | 100.8 | 2.4 | 0.23 | 0.1 | 0.00 | 0.14 | 0.04 | 47 | 218 |
| 50 ISL | 17.01 | 17.00 | 33.850 | 24.632 | 331.5 | 0.165 | 5.55 | 100.8 | 2.4 | 0.23 | 0.1 | 0.00 | 0.14 | 0.04 | 50 | |
| 62 | 17.02 | 17.01 | 33.850 | 24.630 | 332.1 | 0.205 | 5.53 | 100.5 | 2.4 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 62 | 217 |
| 75 ISL | 17.02 | 17.01 | 33.850 | 24.631 | 332.5 | 0.248 | 5.53 | 100.5 | 2.4 | 0.23 | 0.1 | 0.00 | 0.14 | 0.04 | 75 | |
| 76 | 17.02 | 17.01 | 33.850 | 24.631 | 332.5 | 0.252 | 5.53 | 100.5 | 2.4 | 0.23 | 0.1 | 0.00 | 0.14 | 0.04 | 76 | 216 |
| 86 | 17.01 | 17.00 | 33.850 | 24.634 | 332.6 | 0.285 | 5.53 | 100.4 | 2.4 | 0.23 | 0.1 | 0.00 | 0.13 | 0.03 | 86 | 215 |
| 94 | 15.43 | 15.42 | 33.689 | 24.871 | 310.0 | 0.311 | 5.82 | 102.4 | 3.0 | 0.26 | 0.1 | 0.00 | 0.25 | 0.17 | 94 | 214 |
| 100 ISL | 14.91 | 14.90 | 33.706 | 24.998 | 298.0 | 0.329 | 5.78 | 100.6 | 3.1 | 0.26 | 0.1 | 0.01 | 0.23 | 0.19 | 100 | |
| 106 | 14.66 | 14.64 | 33.771 | 25.102 | 288.3 | 0.346 | 5.74 | 99.4 | 3.2 | 0.27 | 0.1 | 0.04 | 0.21 | 0.20 | 106 | 213 |
| 116 | 14.25 | 14.23 | 33.863 | 25.260 | 273.4 | 0.375 | 5.57 | 95.7 | 3.4 | 0.32 | 0.8 | 0.11 | 0.19 | 0.19 | 116 | 212 |
| 125 | 13.73 | 13.71 | 33.822 | 25.337 | 266.3 | 0.399 | 5.47 | 93.0 | 4.0 | 0.41 | 2.1 | 0.06 | 0.17 | 0.16 | 126 | 211 |
| 138 | 12.84 | 12.82 | 33.742 | 25.454 | 255.3 | 0.433 | 5.38 | 89.7 | 5.0 | 0.52 | 3.8 | 0.02 | 0.14 | 0.14 | 139 | 209 |
| 150 ISL | 11.75 | 11.73 | 33.660 | 25.599 | 241.5 | 0.463 | 5.27 | 85.9 | 8.4 | 0.75 | 7.6 | 0.02 | 0.09 | 0.10 | 151 | |
| 165 | 10.47 | 10.45 | 33.616 | 25.795 | 222.9 | 0.497 | 4.96 | 78.6 | 5.0 | 0.51 | 3.8 | 0.02 | 0.04 | 0.04 | 166 | 208 |
| 194 | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 30 45.4 N | 123 19.9 W | 12/01/01 | 0144 | UTC | 4019 m | 340 | 19 kn | 290 15 10 | 6 | 1014.2 mb | 15.5 C | 12.0 C | 8/8 | CU | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 16.94 | 16.94 | 33.799 | 24.608 | 332.1 | 0.000 | 5.57 | 101.0 | 2.5 | 0.24 | 0.1 | 0.00 | 0.13 | 0.04 | 0 | |
| 2 | 16.94 | 16.94 | 33.799 | 24.608 | 332.2 | 0.007 | 5.57 | 101.0 | 2.5 | 0.24 | 0.1 | 0.00 | 0.13 | 0.04 | 2 | 220 |
| 10 ISL | 16.94 | 16.94 | 33.798 | 24.607 | 332.5 | 0.033 | 5.57 | 101.0 | 2.5 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 10 | |
| 16 | 16.94 | 16.94 | 33.797 | 24.607 | 332.7 | 0.053 | 5.57 | 101.0 | 2.5 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 16 | 219 |
| 20 ISL | 16.94 | 16.94 | 33.796 | 24.606 | 333.0 | 0.067 | 5.57 | 101.0 | 2.5 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 20 | |
| 30 | 16.95 | 16.95 | 33.795 | 24.603 | 333.5 | 0.100 | 5.57 | 101.0 | 2.4 | 0.24 | 0.1 | 0.00 | 0.13 | 0.04 | 30 | 218 |
| 46 | 16.94 | 16.93 | 33.794 | 24.606 | 333.9 | 0.153 | 5.60 | 101.5 | 2.4 | 0.24 | 0.1 | 0.00 | 0.13 | 0.03 | 46 | 217 |
| 50 ISL | 16.94 | 16.93 | 33.794 | 24.606 | 334.0 | 0.167 | 5.59 | 101.4 | 2.4 | 0.24 | 0.1 | 0.00 | 0.13 | 0.03 | 50 | |
| 61 | 16.94 | 16.93 | 33.793 | 24.605 | 334.4 | 0.203 | 5.57 | 101.0 | 2.4 | 0.24 | 0.1 | 0.00 | 0.13 | 0.04 | 61 | 216 |
| 75 ISL | 15.33 | 15.32 | 33.535 | 24.774 | 318.6 | 0.249 | 5.77 | 101.2 | 2.9 | 0.30 | 0.1 | 0.03 | 0.27 | 0.15 | 75 | |
| 76 | 15.17 | 15.16 | 33.511 | 24.790 | 317.1 | 0.252 | 5.79 | 101.2 | 3.0 | 0.31 | 0.1 | 0.03 | 0.28 | 0.16 | 76 | 215 |
| 86 | 13.37 | 13.36 | 33.292 | 24.999 | 297.2 | 0.283 | 5.95 | 100.1 | 3.7 | 0.40 | 0.5 | 0.17 | 0.37 | 0.27 | 86 | 214 |
| 98 | 12.34 | 12.33 | 33.346 | 25.243 | 274.2 | 0.317 | 5.66 | 93.2 | 5.2 | 0.62 | 3.7 | 0.09 | 0.32 | 0.29 | 98 | 213 |
| 100 ISL | 12.12 | 12.11 | 33.351 | 25.289 | 269.8 | 0.323 | 5.58 | 91.5 | 5.7 | 0.67 | 4.6 | 0.07 | 0.30 | 0.28 | 100 | |
| 107 | 11.38 | 11.37 | 33.357 | 25.431 | 256.3 | 0.341 | 5.33 | 86.0 | 7.3 | 0.82 | 7.5 | 0.03 | 0.21 | 0.23 | 107 | 212 |
| 116 | 10.65 | 10.64 | 33.336 | 25.544 | 245.6 | 0.364 | 5.30 | 84.2 | 8.8 | 0.91 | 9.1 | 0.02 | 0.14 | 0.16 | 117 | 211 |
| 124 | 9.63 | 9.62 | 33.280 | 25.673 | 233.3 | 0.383 | 5.51 | 85.5 | 9.6 | 0.93 | 9.8 | 0.01 | 0.07 | 0.09 | 125 | 210 |
| 125 ISL | 9.63 | 9.62 | 33.298 | 25.687 | 232.0 | 0.385 | 5.47 | 84.9 | 9.9 | 0.95 | 10.1 | 0.01 | 0.07 | 0.09 | 126 | |
| 140 | 9.59 | 9.57 | 33.539 | 25.882 | 213.8 | 0.419 | 4.50 | 69.9 | 16.3 | 1.32 | 16.1 | 0.01 | 0.03 | 0.05 | 141 | 209 |
| 150 ISL | 9.50 | 9.48 | 33.665 | 25.996 | 203.2 | 0.439 | 4.02 | 62.4 | 20.1 | 1.51 | 19.3 | 0.01 | 0.02 | 0.04 | 151 | |
| 162 | 9.37 | 9.35 | 33.780 | 26.107 | 192.9 | 0.463 | 3.58 | 55.4 | 24.0 | 1.69 | 22.3 | 0.00 | 0.01 | 0.03 | 163 | 208 |
| 194 | 9.06 | 9.04 | 33.896 | 26.248 | 180.1 | 0.523 | 3.14 | 48.3 | 28.6 | 1.87 | 25.1 | 0.00 | 0.00 | 0.02 | 195 | 207 |
| 200 ISL | 8.97 | 8.95 | 33.917 | 26.279 | 177.2 | 0.534 | 3.10 | 47.6 | 29.5 | 1.89 | 25.5 | 0.00 | | | 201 | |
| 224 | 8.56 | 8.54 | 33.989 | 26.399 | 166.1 | 0.575 | 2.98 | 45.4 | 33.3 | 1.97 | 26.9 | 0.00 | | | 225 | 206 |
| 250 ISL | 8.19 | 8.16 | 34.026 | 26.485 | 158.3 | 0.617 | 2.68 | 40.5 | 37.7 | 2.11 | 28.8 | 0.00 | | | 251 | |
| 269 | 7.95 | 7.92 | 34.039 | 26.531 | 154.2 | 0.647 | 2.44 | 36.6 | 41.0 | 2.22 | 30.1 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.59 | 7.56 | 34.063 | 26.602 | 147.7 | 0.693 | 2.13 | 31.7 | 45.7 | 2.37 | 31.8 | 0.00 | | | 302 | |
| 321 | 7.34 | 7.31 | 34.073 | 26.646 | 143.8 | 0.724 | 1.93 | 28.6 | 49.1 | 2.46 | 32.9 | 0.00 | | | 323 | 204 |
| 375 | 6.55 | 6.52 | 34.082 | 26.761 | 133.1 | 0.799 | 1.44 | 20.9 | 60.1 | 2.70 | 36.3 | 0.00 | | | 377 | 203 |
| 400 ISL | 6.36 | 6.32 | 34.102 | 26.802 | 129.5 | 0.832 | 1.22 | 17.7 | 64.0 | 2.79 | 37.4 | 0.00 | | | 402 | |
| 438 | 6.15 | 6.11 | 34.140 | 26.859 | 124.4 | 0.880 | 0.92 | 13.3 | 69.6 | 2.92 | 38.8 | 0.00 | | | 441 | 202 |
| 500 ISL | 5.70 | 5.66 | 34.199 | 26.962 | 115.0 | 0.954 | 0.57 | 8.1 | 80.4 | 3.08 | 40.8 | 0.00 | | | 503 | |
| 523 | 5.53 | 5.49 | 34.221 | 27.001 | 111.5 | 0.980 | 0.44 | 6.2 | 84.4 | 3.14 | 41.5 | 0.00 | | | 526 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 120

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 30 24.9 N | 124 0.2 W | 11/01/01 | 1907 | UTC | 4210 m | 340 | 17 kn | 290 12 10 | 1 | 1017.2 mb | 14.2 C | 11.9 C | 34m | 3/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 16.18 | 16.18 | 33.522 | 24.571 | 335.6 | 0.000 | 5.68 | 101.3 | 2.9 | 0.29 | 0.1 | 0.00 | 0.15 | 0.04 | 0 | |
| 2 A | 16.18 | 16.18 | 33.522 | 24.571 | 335.7 | 0.007 | 5.68 | 101.3 | 2.9 | 0.29 | 0.1 | 0.00 | 0.15 | 0.04 | 2 | 222 |
| 10 ISL | 16.16 | 16.16 | 33.517 | 24.572 | 335.9 | 0.034 | 5.70 | 101.6 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | 10 | |
| 12 | 16.16 | 16.16 | 33.515 | 24.571 | 336.1 | 0.040 | 5.70 | 101.6 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | 12 | 221 |
| 20 ISL | 16.16 | 16.16 | 33.513 | 24.569 | 336.4 | 0.067 | 5.69 | 101.4 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.04 | 20 | |
| 22 A | 16.16 | 16.16 | 33.513 | 24.569 | 336.5 | 0.074 | 5.69 | 101.4 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.04 | 22 | 220 |
| 30 ISL | 16.17 | 16.17 | 33.517 | 24.570 | 336.7 | 0.101 | 5.69 | 101.5 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | 30 | |
| 33 | 16.17 | 16.16 | 33.518 | 24.571 | 336.7 | 0.111 | 5.69 | 101.5 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | 33 | 219 |
| 44 A | 16.16 | 16.15 | 33.524 | 24.579 | 336.3 | 0.148 | 5.69 | 101.4 | 2.7 | 0.29 | 0.0 | 0.00 | 0.16 | 0.05 | 44 | 218 |
| 50 ISL | 16.11 | 16.10 | 33.527 | 24.593 | 335.2 | 0.168 | 5.70 | 101.5 | 2.6 | 0.29 | 0.0 | 0.00 | 0.17 | 0.07 | 50 | |
| 53 | 16.09 | 16.08 | 33.528 | 24.598 | 334.8 | 0.178 | 5.70 | 101.5 | 2.6 | 0.29 | 0.0 | 0.00 | 0.19 | 0.08 | 53 | 217 |
| 63 | 15.26 | 15.25 | 33.444 | 24.719 | 323.5 | 0.211 | 5.82 | 101.9 | 2.9 | 0.32 | 0.0 | 0.01 | 0.31 | 0.14 | 63 | 216 |
| 69 A | 14.02 | 14.01 | 33.329 | 24.895 | 306.8 | 0.230 | 5.91 | 100.8 | 3.4 | 0.39 | 0.4 | 0.09 | 0.35 | 0.21 | 69 | 215 |
| 75 ISL | 13.43 | 13.42 | 33.287 | 24.983 | 298.5 | 0.248 | 5.90 | 99.4 | 3.8 | 0.44 | 0.9 | 0.20 | 0.34 | 0.23 | 75 | |
| 81 | 13.05 | 13.04 | 33.275 | 25.050 | 292.2 | 0.266 | 5.89 | 98.4 | 4.2 | 0.48 | 1.5 | 0.25 | 0.34 | 0.25 | 81 | 214 |
| 90 A | 12.14 | 12.13 | 33.265 | 25.218 | 276.3 | 0.291 | 5.81 | 95.2 | 4.8 | 0.53 | 2.4 | 0.10 | 0.27 | 0.25 | 90 | 213 |
| 100 ISL | 11.11 | 11.10 | 33.335 | 25.462 | 253.1 | 0.318 | 5.35 | 85.8 | 7.8 | 0.85 | 7.7 | 0.02 | 0.15 | 0.17 | 100 | |
| 102 | 10.93 | 10.92 | 33.357 | 25.511 | 248.5 | 0.323 | 5.24 | 83.7 | 8.6 | 0.90 | 9.0 | 0.01 | 0.13 | 0.15 | 102 | 212 |
| 113 | 10.27 | 10.26 | 33.490 | 25.730 | 227.9 | 0.349 | 4.68 | 73.8 | 12.8 | 1.18 | 13.8 | 0.01 | 0.06 | 0.09 | 113 | 211 |
| 125 ISL | 9.97 | 9.96 | 33.539 | 25.819 | 219.6 | 0.376 | 4.43 | 69.4 | 15.6 | 1.31 | 16.0 | 0.01 | 0.04 | 0.06 | 126 | |
| 126 A | 9.96 | 9.95 | 33.542 | 25.823 | 219.2 | 0.378 | 4.42 | 69.2 | 15.8 | 1.32 | 16.1 | 0.01 | 0.04 | 0.06 | 127 | 210 |
| 144 | 9.60 | 9.58 | 33.700 | 26.006 | 202.1 | 0.416 | 3.81 | 59.3 | 21.3 | 1.59 | 20.5 | 0.00 | 0.01 | 0.04 | 145 | 209 |
| 150 ISL | 9.51 | 9.49 | 33.737 | 26.050 | 198.0 | 0.428 | 3.73 | 57.9 | 22.3 | 1.63 | 21.2 | 0.00 | 0.01 | 0.03 | 151 | |
| 169 | 9.24 | 9.22 | 33.830 | 26.167 | 187.3 | 0.465 | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|-----------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 32 57.3 N | 117 18.0 W | 07/01/01 | 1929 | UTC | 51 m | 00 kn | 300 01 08 | 1 | 1016.1 mb | 17.0 C | 13.0 C | 17m | 4/8 | | CC | |
| 0 ISL | 15.03 | 15.03 | 33.585 | 24.875 | 306.6 | 0.000 | 5.97 | 104.1 | 2.9 | 0.30 | 0.1 | 0.00 | 1.42 | 0.28 | 0 | |
| 2 A | 15.03 | 15.03 | 33.585 | 24.875 | 306.7 | 0.006 | 5.97 | 104.1 | 2.9 | 0.30 | 0.1 | 0.00 | 1.42 | 0.28 | 2 207 | |
| 6 | 14.88 | 14.88 | 33.580 | 24.904 | 304.1 | 0.018 | 6.01 | 104.5 | 3.0 | 0.30 | 0.0 | 0.01 | 1.09 | 0.29 | 6 206 | |
| 10 A | 14.64 | 14.64 | 33.577 | 24.954 | 299.5 | 0.030 | 6.04 | 104.5 | 3.3 | 0.33 | 0.1 | 0.02 | 1.47 | 0.43 | 10 205 | |
| 20 ISL | 14.48 | 14.48 | 33.578 | 24.989 | 296.4 | 0.060 | 6.05 | 104.3 | 3.1 | 0.32 | 0.1 | 0.01 | 1.77 | 0.69 | 20 | |
| 22 A | 14.45 | 14.45 | 33.578 | 24.995 | 295.9 | 0.066 | 6.05 | 104.3 | 3.1 | 0.32 | 0.1 | 0.01 | 1.83 | 0.71 | 22 204 | |
| 28 | 14.41 | 14.41 | 33.577 | 25.003 | 295.3 | 0.084 | 6.01 | 103.5 | 3.1 | 0.33 | 0.1 | 0.02 | 1.49 | 0.61 | 28 203 | |
| 30 ISL | 14.40 | 14.40 | 33.578 | 25.006 | 295.1 | 0.090 | 6.01 | 103.5 | 3.1 | 0.34 | 0.1 | 0.02 | 1.42 | 0.61 | 30 | |
| 35 A | 14.36 | 14.35 | 33.579 | 25.015 | 294.3 | 0.105 | 5.99 | 103.0 | 3.1 | 0.36 | 0.2 | 0.03 | 1.25 | 0.60 | 35 202 | |
| 45 A | 14.25 | 14.24 | 33.579 | 25.039 | 292.4 | 0.134 | 5.86 | 100.6 | 3.3 | 0.43 | 0.4 | 0.05 | 0.61 | 0.45 | 45 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 28

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|-----------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 32 54.9 N | 117 24.2 W | 08/01/01 | 0514 | UTC | 635 m | 00 kn | 280 03 08 | 1 | 1014.2 mb | 17.0 C | 13.0 C | 31m | 1/8 | | CS | |
| 0 ISL | 15.61 | 15.61 | 33.577 | 24.742 | 319.4 | 0.000 | 5.79 | 102.1 | 2.6 | 0.30 | 0.0 | 0.00 | 0.20 | 0.05 | 0 | |
| 2 | 15.61 | 15.61 | 33.577 | 24.742 | 319.4 | 0.006 | 5.79 | 102.1 | 2.6 | 0.30 | 0.0 | 0.00 | 0.20 | 0.05 | 2 220 | |
| 10 | 15.52 | 15.52 | 33.574 | 24.760 | 318.0 | 0.032 | 5.80 | 102.1 | 2.6 | 0.30 | 0.0 | 0.00 | 0.24 | 0.08 | 10 219 | |
| 20 | 14.54 | 14.54 | 33.565 | 24.966 | 298.6 | 0.063 | 6.02 | 103.9 | 3.6 | 0.34 | 0.1 | 0.02 | 1.53 | 0.66 | 20 218 | |
| 30 | 14.00 | 14.00 | 33.549 | 25.068 | 289.2 | 0.092 | 5.73 | 97.8 | 4.9 | 0.47 | 1.2 | 0.17 | 1.38 | 0.81 | 30 217 | |
| 40 | 13.57 | 13.56 | 33.506 | 25.123 | 284.2 | 0.121 | 5.55 | 93.9 | 5.1 | 0.57 | 2.7 | 0.17 | 1.09 | 0.70 | 40 216 | |
| 50 | 13.04 | 13.03 | 33.492 | 25.219 | 275.3 | 0.149 | 5.28 | 88.3 | 6.3 | 0.67 | 4.6 | 0.20 | 0.68 | 0.60 | 50 215 | |
| 60 | 12.65 | 12.64 | 33.489 | 25.293 | 268.4 | 0.176 | 5.12 | 85.0 | 7.5 | 0.77 | 6.3 | 0.11 | 0.41 | 0.42 | 60 214 | |
| 70 | 11.86 | 11.85 | 33.498 | 25.451 | 253.6 | 0.202 | 5.13 | 83.7 | 7.9 | 0.80 | 7.5 | 0.03 | 0.23 | 0.26 | 70 213 | |
| 75 ISL | 11.79 | 11.78 | 33.539 | 25.496 | 249.4 | 0.215 | 4.92 | 80.2 | 9.2 | 0.89 | 8.8 | 0.03 | 0.18 | 0.23 | 75 | |
| 85 | 11.64 | 11.63 | 33.587 | 25.561 | 243.5 | 0.239 | 4.44 | 72.2 | 12.2 | 1.09 | 11.3 | 0.03 | 0.13 | 0.20 | 85 212 | |
| 100 | 11.27 | 11.26 | 33.623 | 25.657 | 234.7 | 0.275 | 4.24 | 68.4 | 13.9 | 1.20 | 13.0 | 0.02 | 0.08 | 0.14 | 100 211 | |
| 120 | 11.10 | 11.09 | 33.657 | 25.715 | 229.6 | 0.322 | 3.98 | 64.0 | 15.6 | 1.32 | 14.6 | 0.02 | 0.06 | 0.11 | 121 210 | |
| 125 ISL | 10.99 | 10.97 | 33.668 | 25.743 | 227.0 | 0.333 | 3.93 | 63.0 | 16.1 | 1.35 | 15.2 | 0.02 | 0.05 | 0.10 | 126 | |
| 139 | 10.69 | 10.67 | 33.716 | 25.834 | 218.7 | 0.364 | 3.70 | 58.9 | 18.2 | 1.46 | 17.1 | 0.01 | 0.04 | 0.08 | 140 209 | |
| 150 ISL | 10.68 | 10.66 | 33.800 | 25.901 | 212.5 | 0.388 | 3.23 | 51.5 | 21.3 | 1.64 | 19.1 | 0.01 | 0.03 | 0.07 | 151 | |
| 169 | 10.66 | 10.64 | 33.953 | 26.025 | 201.3 | 0.427 | 2.42 | 38.6 | 26.8 | 1.96 | 22.6 | 0.01 | 0.01 | 0.05 | 170 208 | |
| 199 | 9.87 | 9.85 | 34.073 | 26.254 | 179.9 | 0.484 | 2.14 | 33.6 | 31.2 | 2.13 | 26.1 | 0.01 | 0.00 | 0.04 | 200 207 | |
| 200 ISL | 9.85 | 9.83 | 34.075 | 26.259 | 179.5 | 0.486 | 2.13 | 33.4 | 31.3 | 2.13 | 26.2 | 0.01 | | | 201 | |
| 229 | 9.44 | 9.41 | 34.120 | 26.363 | 170.1 | 0.537 | 1.94 | 30.1 | 34.3 | 2.25 | 27.9 | 0.01 | | | 230 206 | |
| 250 ISL | 9.11 | 9.08 | 34.143 | 26.434 | 163.6 | 0.572 | 1.89 | 29.2 | 36.8 | 2.31 | 28.7 | 0.00 | | | 251 | |
| 268 | 8.84 | 8.81 | 34.157 | 26.488 | 158.7 | 0.601 | 1.87 | 28.7 | 38.9 | 2.35 | 29.2 | 0.00 | | | 270 205 | |
| 300 ISL | 8.42 | 8.39 | 34.160 | 26.556 | 152.7 | 0.651 | 1.81 | 27.5 | 42.1 | 2.41 | 30.2 | 0.00 | | | 302 | |
| 318 | 8.21 | 8.18 | 34.161 | 26.589 | 149.8 | 0.678 | 1.78 | 26.9 | 44.1 | 2.45 | 30.9 | 0.00 | | | 320 204 | |
| 377 | 7.58 | 7.54 | 34.211 | 26.721 | 137.8 | 0.763 | 1.08 | 16.1 | 54.0 | 2.74 | 34.3 | 0.00 | | | 379 203 | |
| 400 ISL | 7.41 | 7.37 | 34.224 | 26.756 | 134.8 | 0.794 | 0.94 | 14.0 | 56.8 | 2.82 | 35.1 | 0.00 | | | 403 | |
| 437 | 7.16 | 7.12 | 34.241 | 26.805 | 130.6 | 0.843 | 0.79 | 11.7 | 61.1 | 2.93 | 36.2 | 0.00 | | | 440 202 | |
| 500 ISL | 6.64 | 6.59 | 34.270 | 26.899 | 122.1 | 0.923 | 0.52 | 7.6 | 69.9 | 3.06 | 38.2 | 0.00 | | | 503 | |
| 516 | 6.51 | 6.46 | 34.278 | 26.923 | 120.0 | 0.942 | 0.45 | 6.5 | 72.1 | 3.09 | 38.7 | 0.00 | | | 519 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 30

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|-----------|--------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 32 51.2 N | 117 31.9 W | 08/01/01 | 0712 | UTC | 835 m | 190 05 kn | | | | | | | | | | |
| 0 ISL | 15.81 | 15.81 | 33.585 | 24.703 | 323.1 | 0.000 | 5.76 | 102.0 | 2.5 | 0.29 | 0.0 | 0.00 | 0.22 | 0.05 | 0 | |
| 2 | 15.81 | 15.81 | 33.585 | 24.703 | 323.1 | 0.006 | 5.76 | 102.0 | 2.5 | 0.29 | 0.0 | 0.00 | 0.22 | 0.05 | 2 220 | |
| 10 | 15.81 | 15.81 | 33.583 | 24.702 | 323.5 | 0.032 | 5.76 | 102.0 | 2.5 | 0.29 | 0.0 | 0.00 | 0.21 | 0.05 | 10 219 | |
| 20 | 15.18 | 15.18 | 33.556 | 24.821 | 312.4 | 0.064 | 5.85 | 102.3 | 2.6 | 0.30 | 0.0 | 0.00 | 0.22 | 0.08 | 20 218 | |
| 30 | 14.74 | 14.74 | 33.555 | 24.916 | 303.7 | 0.095 | 5.86 | 101.6 | 2.9 | 0.33 | 0.1 | 0.01 | 0.38 | 0.19 | 30 217 | |
| 40 | 13.73 | 13.72 | 33.468 | 25.061 | 290.1 | 0.125 | 5.69 | 96.6 | 3.9 | 0.47 | 1.7 | 0.16 | 0.67 | 0.45 | 40 216 | |
| 50 | 12.99 | 12.98 | 33.467 | 25.209 | 276.2 | 0.153 | 5.36 | 89.6 | 6.0 | 0.65 | 4.8 | 0.09 | 0.50 | 0.40 | 50 215 | |
| 59 | 12.41 | 12.40 | 33.547 | 25.385 | 259.7 | 0.177 | 4.84 | 79.9 | 9.1 | 0.88 | 8.0 | 0.06 | 0.25 | 0.28 | 59 214 | |
| 70 | 11.89 | 11.88 | 33.545 | 25.480 | 250.9 | 0.205 | 4.97 | 81.2 | 8.5 | 0.84 | 8.0 | 0.04 | 0.17 | 0.23 | 70 213 | |
| 75 ISL | 11.69 | 11.68 | 33.563 | 25.533 | 245.9 | 0.218 | 4.77 | 77.6 | 9.8 | 0.93 | 9.4 | 0.04 | 0.14 | 0.20 | 75 | |
| 85 | 11.33 | 11.32 | 33.614 | 25.639 | 236.0 | 0.242 | 4.23 | 68.3 | 13.4 | 1.18 | 12.8 | 0.03 | 0.09 | 0.15 | 85 212 | |
| 99 | 10.97 | 10.96 | 33.688 | 25.762 | 224.7 | 0.274 | 3.78 | 60.6 | 16.9 | 1.39 | 15.8 | 0.04 | 0.06 | 0.11 | 99 211 | |
| 100 ISL | 10.96 | 10.95 | 33.693 | 25.768 | 224.1 | 0.276 | 3.76 | 60.3 | 17.1 | 1.40 | 15.9 | 0.04 | 0.06 | 0.11 | 100 | |
| 120 | 10.79 | 10.78 | 33.799 | 25.881 | 213.8 | 0.320 | 3.23 | 51.6 | 21.0 | 1.62 | 18.7 | 0.01 | 0.02 | 0.06 | 121 210 | |
| 125 ISL | 10.75 | 10.73 | 33.836 | 25.917 | 210.5 | 0.331 | 3.03 | 48.4 | 22.4 | 1.70 | 19.6 | 0.01 | 0.02 | 0.06 | 126 | |
| 139 | 10.61 | 10.59 | 33 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|--------|--------|------|------|----|-----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | | |
| 32 41.0 N | 117 52.5 W | 08/01/01 | 1118 | UTC | 621 m | 330 | 05 kn | | | | | | | | | | | |
| 0 ISL | 15.60 | 15.60 | 33.597 | 24.759 | 317.7 | 0.000 | 5.84 | 103.0 | 2.5 | 0.30 | 0.0 | 0.00 | 0.19 | 0.05 | 0 | | | |
| 1 | 15.60 | 15.60 | 33.597 | 24.759 | 317.7 | 0.003 | 5.84 | 103.0 | 2.5 | 0.30 | 0.0 | 0.00 | 0.19 | 0.05 | 1 | 220 | | |
| 10 | 15.60 | 15.60 | 33.597 | 24.760 | 318.0 | 0.032 | 5.76 | 101.6 | 2.5 | 0.29 | 0.0 | 0.00 | 0.18 | 0.05 | 10 | 219 | | |
| 20 | 15.21 | 15.21 | 33.566 | 24.822 | 312.3 | 0.063 | 6.21 | U | 108.7 | U | 2.5 | 0.30 | 0.0 | 0.00 | 0.19 | 0.05 | 20 | 218 |
| 30 | 15.13 | 15.13 | 33.586 | 24.855 | 309.5 | 0.094 | 5.84 | 102.0 | 2.5 | 0.30 | 0.0 | 0.00 | 0.25 | 0.08 | 30 | 217 | | |
| 40 | 15.06 | 15.05 | 33.582 | 24.868 | 308.6 | 0.125 | 6.06 | 105.7 | 2.6 | 0.30 | 0.0 | 0.00 | 0.29 | 0.11 | 40 | 216 | | |
| 50 | 14.11 | 14.10 | 33.470 | 24.984 | 297.7 | 0.156 | 5.98 | 102.3 | 3.4 | 0.40 | 0.6 | 0.09 | 0.59 | 0.34 | 50 | 215 | | |
| 60 | 13.27 | 13.26 | 33.457 | 25.146 | 282.5 | 0.185 | 5.79 | 97.3 | 5.0 | 0.60 | 3.4 | 0.26 | 0.52 | 0.36 | 60 | 214 | | |
| 70 | 11.90 | 11.89 | 33.463 | 25.417 | 256.9 | 0.212 | 5.19 | 84.7 | 8.6 | 0.89 | 8.7 | 0.02 | 0.24 | 0.27 | 70 | 213 | | |
| 75 ISL | 11.53 | 11.52 | 33.469 | 25.490 | 250.0 | 0.224 | 4.98 | 80.7 | 9.8 | 0.97 | 10.2 | 0.02 | 0.17 | 0.23 | 75 | | | |
| 85 | 11.14 | 11.13 | 33.504 | 25.588 | 240.9 | 0.249 | 4.59 | 73.8 | 11.9 | 1.10 | 12.4 | 0.01 | 0.11 | 0.15 | 85 | 212 | | |
| 100 | 10.86 | 10.85 | 33.668 | 25.766 | 224.3 | 0.284 | 3.83 | 61.2 | 16.6 | 1.40 | 16.2 | 0.01 | 0.05 | 0.10 | 100 | 211 | | |
| 120 | 10.65 | 10.64 | 33.869 | 25.960 | 206.3 | 0.327 | 2.80 | 44.6 | 24.1 | 1.85 | 21.3 | 0.00 | 0.01 | 0.06 | 121 | 210 | | |
| 125 ISL | 10.46 | 10.45 | 33.890 | 26.009 | 201.7 | 0.337 | 2.82 | 44.8 | 24.9 | 1.85 | 22.0 | 0.00 | 0.01 | 0.05 | 126 | | | |
| 140 | 9.85 | 9.83 | 33.923 | 26.139 | 189.5 | 0.366 | 2.89 | 45.3 | 26.4 | 1.86 | 23.4 | 0.00 | 0.00 | 0.04 | 141 | 209 | | |
| 150 ISL | 9.61 | 9.59 | 33.940 | 26.193 | 184.6 | 0.385 | 2.92 | 45.5 | 27.1 | 1.87 | 23.9 | 0.00 | 0.00 | 0.03 | 151 | | | |
| 170 | 9.27 | 9.25 | 33.973 | 26.274 | 177.2 | 0.421 | 2.97 | 45.9 | 28.8 | 1.88 | 24.7 | 0.00 | 0.00 | 0.03 | 171 | 208 | | |
| 199 | 8.85 | 8.83 | 34.060 | 26.409 | 164.8 | 0.471 | 2.45 | 37.6 | 34.5 | 2.12 | 27.6 | 0.00 | 0.00 | 0.03 | 200 | 207 | | |
| 200 ISL | 8.84 | 8.82 | 34.062 | 26.413 | 164.5 | 0.472 | 2.44 | 37.4 | 34.6 | 2.12 | 27.6 | 0.00 | | | 201 | | | |
| 229 | 8.54 | 8.52 | 34.086 | 26.478 | 158.7 | 0.519 | 2.28 | 34.7 | 37.1 | 2.19 | 28.6 | 0.00 | | | 230 | 206 | | |
| 250 ISL | 8.19 | 8.16 | 34.079 | 26.526 | 154.4 | 0.552 | 2.27 | 34.3 | 39.8 | 2.24 | 29.5 | 0.01 | | | 251 | | | |
| 268 | 7.87 | 7.84 | 34.071 | 26.568 | 150.6 | 0.580 | 2.26 | 33.9 | 42.5 | 2.29 | 30.3 | 0.01 | | | 270 | 205 | | |
| 300 ISL | 7.43 | 7.40 | 34.077 | 26.636 | 144.4 | 0.627 | 2.04 | 30.3 | 47.7 | 2.41 | 32.0 | 0.00 | | | 302 | | | |
| 318 | 7.26 | 7.23 | 34.090 | 26.670 | 141.3 | 0.653 | 1.85 | 27.3 | 50.6 | 2.49 | 32.9 | 0.00 | | | 320 | 204 | | |
| 378 | 7.24 | 7.20 | 34.208 | 26.767 | 135.2 | 0.735 | 0.98 | 14.5 | 58.0 | 2.79 | 35.3 | 0.00 | | | 380 | 203 | | |
| 400 ISL | 7.09 | 7.05 | 34.232 | 26.807 | 129.7 | 0.764 | 0.79 | 11.6 | 61.5 | 2.87 | 36.2 | 0.00 | | | 403 | | | |
| 438 | 6.76 | 6.72 | 34.260 | 26.874 | 123.6 | 0.812 | 0.57 | 8.3 | 67.6 | 2.99 | 37.7 | 0.00 | | | 441 | 202 | | |
| 500 ISL | 6.25 | 6.21 | 34.289 | 26.965 | 115.5 | 0.886 | 0.38 | 5.5 | 76.2 | 3.12 | 39.6 | 0.00 | | | 503 | | | |
| 515 | 6.13 | 6.08 | 34.297 | 26.987 | 113.5 | 0.903 | 0.33 | 4.8 | 78.3 | 3.15 | 40.0 | 0.00 | | | 519 | 201 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 40

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 30.6 N | 118 12.6 W | 08/01/01 | 1736 | UTC | 1671 m | 320 | 18 kn | 210 03 05 | 2 | 1016.9 mb | 15.2 | C 13.8 C | 29m | 8/8 | NS | |
| 0 ISL | 15.71 | 15.71 | 33.586 | 24.726 | 320.8 | 0.000 | 5.75 | 101.7 | 2.4 | 0.29 | 0.0 | 0.00 | 0.20 | 0.06 | 0 | |
| 2 A | 15.71 | 15.71 | 33.586 | 24.726 | 320.9 | 0.006 | 5.75 | 101.7 | 2.4 | 0.29 | 0.0 | 0.00 | 0.20 | 0.06 | 2 | 221 |
| 10 | 15.71 | 15.71 | 33.585 | 24.726 | 321.2 | 0.032 | 5.77 | 102.0 | 2.4 | 0.29 | 0.0 | 0.00 | 0.19 | 0.05 | 10 | 220 |
| 19 A | 15.71 | 15.71 | 33.587 | 24.728 | 321.3 | 0.061 | 5.76 | 101.8 | 2.3 | 0.29 | 0.0 | 0.00 | 0.19 | 0.05 | 19 | 219 |
| 20 ISL | 15.71 | 15.71 | 33.587 | 24.728 | 321.3 | 0.064 | 5.76 | 101.8 | 2.3 | 0.29 | 0.0 | 0.00 | 0.19 | 0.05 | 20 | |
| 28 | 15.52 | 15.52 | 33.571 | 24.758 | 318.7 | 0.090 | 5.80 | 102.1 | 2.4 | 0.29 | 0.0 | 0.00 | 0.20 | 0.08 | 28 | 218 |
| 30 ISL | 15.40 | 15.40 | 33.561 | 24.777 | 316.9 | 0.096 | 5.83 | 102.4 | 2.4 | 0.29 | 0.0 | 0.00 | 0.22 | 0.09 | 30 | |
| 37 A | 14.83 | 14.82 | 33.515 | 24.866 | 308.7 | 0.118 | 5.89 | 102.2 | 2.6 | 0.32 | 0.0 | 0.00 | 0.32 | 0.14 | 37 | 217 |
| 48 | 13.48 | 13.47 | 33.441 | 25.091 | 287.4 | 0.151 | 5.69 | 96.0 | 3.8 | 0.47 | 1.7 | 0.08 | 0.52 | 0.39 | 48 | 216 |
| 50 ISL | 13.19 | 13.18 | 33.434 | 25.144 | 282.4 | 0.157 | 5.62 | 94.3 | 4.3 | 0.52 | 2.5 | 0.07 | 0.49 | 0.38 | 50 | |
| 58 A | 12.17 | 12.16 | 33.435 | 25.344 | 263.6 | 0.178 | 5.28 | 86.7 | 6.7 | 0.74 | 6.3 | 0.03 | 0.31 | 0.30 | 58 | 215 |
| 68 | 11.54 | 11.53 | 33.484 | 25.499 | 248.9 | 0.204 | 4.83 | 78.3 | 9.8 | 0.98 | 10.3 | 0.02 | 0.19 | 0.21 | 68 | 214 |
| 75 ISL | 11.28 | 11.27 | 33.545 | 25.594 | 240.1 | 0.221 | 4.48 | 72.2 | 11.9 | 1.14 | 12.9 | 0.02 | 0.16 | 0.21 | 75 | |
| 77 A | 11.22 | 11.21 | 33.562 | 25.619 | 237.8 | 0.226 | 4.39 | 70.7 | 12.5 | 1.18 | 13.5 | 0.02 | 0.15 | 0.21 | 77 | 213 |
| 93 | 10.78 | 10.77 | 33.636 | 25.755 | 225.1 | 0.263 | 3.98 | 63.5 | 15.8 | 1.37 | 16.5 | 0.01 | 0.09 | 0.14 | 93 | 212 |
| 100 ISL | 10.49 | 10.49 | 33.676 | 25.835 | 217.6 | 0.278 | 3.80 | 60.3 | 17.9 | 1.46 | 18.0 | 0.01 | 0.05 | 0.10 | 100 | |
| 107 A | 10.27 | 10.26 | 33.714 | 25.904 | 211.2 | 0.293 | 3.64 | 57.5 | 19.8 | 1.55 | 19.3 | 0.01 | 0.02 | 0.07 | 108 | 211 |
| 122 | 10.24 | 10.23 | 33.762 | 25.947 | 207.4 | 0.325 | 3.40 | 53.7 | 21.2 | 1.64 | 20.6 | 0.01 | 0.03 | 0.07 | 123 | 210 |
| 125 ISL | 10.15 | 10.14 | 33.779 | 25.976 | 204.7 | 0.331 | 3.36 | 52.9 | 21.8 | 1.66 | 21.0 | 0.01 | 0.03 | 0.06 | 126 | |
| 141 | 9.61 | 9.59 | 33.876 | 26.142 | 189.2 | 0.363 | 3.17 | 49.4 | 25.6 | 1.79 | 23.3 | 0.00 | 0.00 | 0.03 | 142 | 209 |
| 150 ISL | 9.46 | 9.44 | 33.910 | 26.194 | 184.4 | 0.379 | 3.08 | 47.8 | 26.9 | 1.84 | 24.0 | 0.00 | 0.00 | 0.03 | 151 | |
| 169 | 9.23 | 9.21 | 33.960 | 26.270 | 177.5 | 0.414 | 2.88 | 44.5 | 29.4 | 1.93 | 25.3 | 0.00 | 0.00 | 0.03 | 170 | 208 |
| 198 | 8.62 | 8.60 | 34.031 | 26.422 | 163.4 | 0.463 | 2.55 | 38.9 | 35.4 | 2.11 | 28.0 | 0.00 | | | 201 | |
| 200 ISL | 8.59 | 8.57 | 34.036 | 26.431 | 162.6 | 0.466 | 2.52 | 38.4 | 35.8 | 2.12 | 28.1 | 0.00 | | | 201 | |
| 225 | 8.31 | 8.29 | 34.086 | 26.513 | 155.2 | 0.506 | 2.19 | 33.2 | 39.9 | 2.27 | 29.7 | 0.00 | | | 226 | 206 |
| 250 ISL | 8.00 | 7.97 | 34.110 | 26.579 | 149.3 | 0.544 | 1.98 | 29.8 | 43.6 | 2.38 | 31.0 | 0.01 | | | 251 | |
| 270 | 7.76 | 7.73 | 34.120 | 26.622 | 145.4 | 0.574 | 1.84 | 27.5 | 46.4 | 2.45 | 31.9 | 0.01 | | | 272 | 205 |
| 300 ISL | 7.49 | 7.46 | 34.137 | 26.675 | 140.8 | 0.617 | 1.60 | 23.8 | 50.7 | 2.56 | 33.2 | 0.00 | | | 302 | |
| 315 | 7.37 | 7.34 | 34.147 | 26.700 | 138.6 | 0.638 | 1.47 | 21.8 | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|-----------|--------|----------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 21.2 N | 118 33.2 W | 08/01/01 | 2106 | UTC | 1320 m | 290 | 11 kn | 270 | 02 | 05 | 1 | 1012.1 mb | 15.8 | C 13.2 C | 23m |
| 0 | ISL | 15.36 | 15.36 | 33.632 | 24.839 | 310.1 | 0.000 | 5.86 | 102.9 | 2.8 | 0.28 | 0.0 | 0.00 | 0.23 | 0.08 | 0 |
| 2 | | 15.36 | 15.36 | 33.632 | 24.839 | 310.1 | 0.006 | 5.86 | 102.9 | 2.8 | 0.28 | 0.0 | 0.00 | 0.23 | 0.08 | 2 220 |
| 10 | | 15.31 | 15.31 | 33.625 | 24.845 | 309.8 | 0.031 | 5.88 | 103.1 | 2.7 | 0.28 | 0.0 | 0.00 | 0.25 | 0.08 | 10 219 |
| 20 | | 15.15 | 15.15 | 33.608 | 24.868 | 308.0 | 0.062 | 5.90 | 103.1 | 2.9 | 0.29 | 0.0 | 0.00 | 0.23 | 0.10 | 20 218 |
| 30 | | 14.68 | 14.68 | 33.594 | 24.959 | 299.6 | 0.092 | 5.88 | 101.8 | 3.5 | 0.34 | 0.3 | 0.02 | 0.69 | 0.32 | 30 217 |
| 40 | | 12.79 | 12.78 | 33.587 | 25.341 | 263.4 | 0.120 | 5.11 | 85.1 | 8.3 | 0.81 | 7.2 | 0.18 | 0.82 | 0.46 | 40 216 |
| 50 | | 11.57 | 11.56 | 33.608 | 25.590 | 239.9 | 0.146 | 4.31 | 69.9 | 13.1 | 1.20 | 13.8 | 0.09 | 0.43 | 0.40 | 50 215 |
| 60 | | 11.22 | 11.21 | 33.638 | 25.677 | 231.8 | 0.169 | 4.02 | 64.8 | 15.1 | 1.33 | 15.9 | 0.04 | 0.31 | 0.50 | 60 214 |
| 69 | | 10.84 | 10.83 | 33.682 | 25.780 | 222.3 | 0.190 | 3.72 | 59.5 | 17.4 | 1.46 | 18.0 | 0.02 | 0.19 | 0.31 | 69 213 |
| 75 | ISL | 10.70 | 10.69 | 33.700 | 25.818 | 218.7 | 0.203 | 3.62 | 57.7 | 18.3 | 1.51 | 18.8 | 0.02 | 0.14 | 0.24 | 75 |
| 85 | | 10.52 | 10.51 | 33.727 | 25.871 | 213.9 | 0.224 | 3.52 | 55.9 | 19.6 | 1.57 | 19.7 | 0.02 | 0.09 | 0.16 | 85 212 |
| 99 | | 10.16 | 10.15 | 33.788 | 25.981 | 203.7 | 0.254 | 3.37 | 53.1 | 21.9 | 1.66 | 21.1 | 0.01 | 0.03 | 0.08 | 99 211 |
| 100 | ISL | 10.14 | 10.13 | 33.792 | 25.987 | 203.1 | 0.256 | 3.36 | 52.9 | 22.0 | 1.66 | 21.2 | 0.01 | 0.03 | 0.08 | 101 |
| 120 | | 9.87 | 9.86 | 33.861 | 26.087 | 194.0 | 0.295 | 3.14 | 49.2 | 24.6 | 1.77 | 22.8 | 0.01 | 0.01 | 0.05 | 121 210 |
| 125 | ISL | 9.81 | 9.80 | 33.886 | 26.117 | 191.3 | 0.305 | 3.03 | 47.4 | 25.6 | 1.81 | 23.4 | 0.01 | 0.01 | 0.05 | 126 |
| 140 | | 9.64 | 9.62 | 33.957 | 26.201 | 183.6 | 0.333 | 2.72 | 42.4 | 28.5 | 1.94 | 24.9 | 0.01 | 0.00 | 0.05 | 141 209 |
| 150 | ISL | 9.55 | 9.53 | 33.977 | 26.231 | 180.9 | 0.351 | 2.66 | 41.4 | 29.3 | 1.97 | 25.3 | 0.01 | 0.00 | 0.05 | 151 |
| 170 | | 9.34 | 9.32 | 34.008 | 26.290 | 175.7 | 0.387 | 2.56 | 39.7 | 30.9 | 2.03 | 26.0 | 0.00 | 0.00 | 0.05 | 171 208 |
| 199 | | 8.90 | 8.88 | 34.118 | 26.447 | 161.3 | 0.436 | 2.06 | 31.6 | 37.1 | 2.25 | 28.9 | 0.00 | 0.00 | 0.03 | 200 207 |
| 200 | ISL | 8.88 | 8.86 | 34.117 | 26.449 | 161.0 | 0.438 | 2.07 | 31.8 | 37.2 | 2.25 | 28.9 | 0.00 | | | 201 |
| 229 | | 8.31 | 8.29 | 34.077 | 26.506 | 155.9 | 0.484 | 2.26 | 34.2 | 39.8 | 2.25 | 29.7 | 0.00 | | | 230 206 |
| 250 | ISL | 8.14 | 8.11 | 34.126 | 26.571 | 150.2 | 0.516 | 1.88 | 28.4 | 43.7 | 2.40 | 31.0 | 0.00 | | | 251 |
| 269 | | 8.02 | 7.99 | 34.184 | 26.634 | 144.4 | 0.544 | 1.43 | 21.5 | 47.8 | 2.56 | 32.4 | 0.00 | | | 271 205 |
| 300 | ISL | 7.58 | 7.55 | 34.215 | 26.723 | 136.3 | 0.587 | 1.12 | 16.7 | 54.4 | 2.73 | 34.3 | 0.00 | | | 302 |
| 319 | | 7.29 | 7.26 | 34.225 | 26.772 | 131.8 | 0.613 | 1.00 | 14.8 | 58.5 | 2.82 | 35.4 | 0.00 | | | 321 204 |
| 378 | | 6.59 | 6.56 | 34.271 | 26.905 | 119.7 | 0.687 | 0.53 | 7.7 | 70.5 | 3.05 | 38.4 | 0.00 | | | 380 203 |
| 400 | ISL | 6.46 | 6.42 | 34.282 | 26.931 | 117.4 | 0.713 | 0.45 | 6.5 | 72.9 | 3.09 | 39.0 | 0.00 | | | 403 |
| 439 | | 6.31 | 6.27 | 34.298 | 26.964 | 114.8 | 0.758 | 0.38 | 5.5 | 75.9 | 3.13 | 39.6 | 0.00 | | | 442 202 |
| 500 | ISL | 6.01 | 5.97 | 34.318 | 27.018 | 110.2 | 0.827 | 0.30 | 4.3 | 81.0 | 3.21 | 40.6 | 0.00 | | | 503 |
| 515 | | 5.94 | 5.89 | 34.323 | 27.031 | 109.1 | 0.843 | 0.28 | 4.0 | 82.3 | 3.23 | 40.8 | 0.00 | | | 519 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 50

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|-----------|--------|----------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 10.5 N | 118 53.6 W | 09/01/01 | 0127 | UTC | 1506 m | 310 | 17 kn | 250 | 04 | 05 | 1 | 1011.8 mb | 15.7 | C 13.2 C | 6/8 CU |
| 0 | ISL | 15.28 | 15.28 | 33.591 | 24.825 | 311.4 | 0.000 | 5.88 | 103.1 | 3.0 | 0.31 | 0.0 | 0.00 | 0.22 | 0.06 | 0 |
| 1 | | 15.28 | 15.28 | 33.591 | 24.825 | 311.4 | 0.003 | 5.88 | 103.1 | 3.0 | 0.31 | 0.0 | 0.00 | 0.22 | 0.06 | 1 220 |
| 10 | ISL | 15.29 | 15.29 | 33.595 | 24.827 | 311.6 | 0.031 | 5.87 | 102.9 | 2.9 | 0.30 | 0.0 | 0.00 | 0.22 | 0.07 | 10 |
| 15 | | 15.29 | 15.29 | 33.597 | 24.828 | 311.6 | 0.047 | 5.86 | 102.7 | 2.9 | 0.29 | 0.0 | 0.00 | 0.22 | 0.08 | 15 219 |
| 20 | ISL | 15.28 | 15.28 | 33.598 | 24.832 | 311.4 | 0.062 | 5.88 | 103.1 | 2.9 | 0.31 | 0.0 | 0.00 | 0.23 | 0.08 | 20 |
| 30 | | 15.25 | 15.25 | 33.599 | 24.839 | 311.0 | 0.093 | 5.91 | 103.5 | 2.9 | 0.35 | 0.0 | 0.00 | 0.24 | 0.08 | 30 218 |
| 45 | | 13.47 | 13.46 | 33.523 | 25.156 | 281.1 | 0.138 | 5.56 | 93.9 | 5.6 | 0.57 | 3.3 | 0.21 | 0.80 | 0.48 | 45 217 |
| 50 | ISL | 12.84 | 12.83 | 33.494 | 25.260 | 271.4 | 0.152 | 5.33 | 88.8 | 6.9 | 0.70 | 5.5 | 0.18 | 0.65 | 0.42 | 50 |
| 54 | | 12.37 | 12.36 | 33.477 | 25.338 | 264.0 | 0.162 | 5.14 | 84.8 | 8.0 | 0.81 | 7.3 | 0.14 | 0.48 | 0.34 | 54 216 |
| 66 | | 11.46 | 11.45 | 33.493 | 25.521 | 246.8 | 0.193 | 4.73 | 76.5 | 10.8 | 1.03 | 11.0 | 0.03 | 0.24 | 0.26 | 66 215 |
| 75 | ISL | 10.97 | 10.96 | 33.579 | 25.677 | 232.2 | 0.215 | 4.31 | 69.0 | 13.9 | 1.24 | 14.3 | 0.01 | 0.13 | 0.21 | 75 |
| 76 | | 10.92 | 10.91 | 33.591 | 25.695 | 230.5 | 0.217 | 4.26 | 68.2 | 14.3 | 1.26 | 14.7 | 0.01 | 0.12 | 0.20 | 76 214 |
| 85 | | 10.42 | 10.41 | 33.693 | 25.862 | 214.7 | 0.237 | 3.81 | 60.3 | 18.4 | 1.48 | 18.1 | 0.01 | 0.04 | 0.09 | 85 213 |
| 93 | | 10.33 | 10.32 | 33.751 | 25.923 | 209.1 | 0.254 | 3.53 | 55.8 | 20.5 | 1.60 | 19.8 | 0.01 | 0.03 | 0.06 | 93 212 |
| 100 | ISL | 10.14 | 10.13 | 33.819 | 26.008 | 201.1 | 0.268 | 3.24 | 51.0 | 23.1 | 1.72 | 21.5 | 0.01 | 0.02 | 0.06 | 100 |
| 109 | | 9.86 | 9.85 | 33.901 | 26.120 | 190.7 | 0.286 | 2.94 | 46.1 | 26.2 | 1.85 | 23.5 | 0.01 | 0.01 | 0.05 | 110 211 |
| 124 | | 9.48 | 9.47 | 33.956 | 26.226 | 180.9 | 0.314 | 2.87 | 44.6 | 28.3 | 1.91 | 24.8 | 0.00 | 0.00 | 0.05 | 125 210 |
| 125 | ISL | 9.46 | 9.45 | 33.961 | 26.233 | 180.2 | 0.316 | 2.86 | 44.4 | 28.5 | 1.92 | 24.9 | 0.00 | 0.00 | 0.05 | 126 |
| 145 | | 9.14 | 9.12 | 34.047 | 26.352 | 169.2 | 0.350 | 2.52 | 38.9 | 32.6 | 2.08 | 26.8 | 0.00 | 0.00 | 0.04 | 146 209 |
| 150 | ISL | 9.03 | 9.01 | 34.061 | 26.381 | 166.6 | 0.359 | 2.45 | 37.7 | 33.7 | 2.11 | 27.3 | 0.00 | 0.00 | 0.04 | 151 |
| 168 | | 8.67 | 8.65 | 34.100 | 26.468 | 158.5 | 0.388 | 2.19 | 33.4 | 37.4 | 2.22 | 28.8 | 0.00 | 0.00 | 0.04 | 169 208 |
| 199 | | 8.49 | 8.47 | 34.165 | 26.547 | 151.6 | 0.436 | 1.73 | 26.3 | 41.9 | 2.41 | 30.4 | 0.00 | 0.00 | 0.03 | 200 207 |
| 200 | ISL | 8.48 | 8.46 | 34.166 | 26.550 | 151.4 | 0.438 | 1.72 | 26.2 | 42.0 | 2.41 | 30.4 | 0.00 | | | 201 |
| 228 | | 8.21 | 8.19 | 34.186 | 26.607 | 146.4 | 0.479 | 1.62 | 24.5 | 45.5 | 2.51 | 31.5 | 0.01 | | | 229 206 |
| 250 | ISL | 8.00 | 7.97 | 34.196 | 26.646 | 142.9 | 0.511 | 1.45 | 21.8 | 48.2 | 2.59 | 32.3 | 0.01 | | | 251 |
| 270 | | 7.82 | 7.79 | 34.203 | 26.679 | 140.1 | 0.540 | 1.28 | 19.2 | 50.7 | 2.66 | 33.1 | 0.00 | | | 272 205 |
| 300 | ISL | 7.54 | 7.51 | 34.215 | 26.729 | 135.7 | 0.581 | 1.09 | 16.2 | 54.9 | 2.75 | 34.4 | 0.00 | | | 302 |
| 321 | | 7.36 | 7.33 | 34.223 | 2 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-----------|-----------|--------|--------|--------|------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | BAROMETER | DRY | WET | SECCHI | CLD | AMT | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | 1013.2 mb | 13.9 C | 11.0 C | | | | db | |
| 0 ISL | 14.70 | 14.70 | 33.530 | 24.904 | 303.9 | 0.000 | | | | | | | | | | 0 |
| 2 | 14.70 | 14.70 | 33.530 D | 24.904 | 303.9 | 0.006 | | | | | | | | | | 2 1 |
| 10 | 14.70 | 14.70 | 33.527 D | 24.902 | 304.4 | 0.030 | | | | | | | | | | 10 1 |
| 20 | 14.68 | 14.68 | 33.529 D | 24.908 | 304.1 | 0.061 | | | | | | | | | | 20 1 |
| 30 | 14.62 | 14.62 | 33.528 D | 24.920 | 303.3 | 0.091 | | | | | | | | | | 30 1 |
| 40 | 14.54 | 14.53 | 33.526 D | 24.937 | 301.9 | 0.121 | | | | | | | | | | 40 1 |
| 50 | 13.27 | 13.27 | 33.506 D | 25.183 | 278.7 | 0.150 | | | | | | | | | | 50 1 |
| 60 | 12.25 | 12.25 | 33.503 D | 25.380 | 260.1 | 0.177 | | | | | | | | | | 60 1 |
| 75 | 11.54 | 11.53 | 33.559 D | 25.558 | 243.6 | 0.215 | | | | | | | | | | 75 1 |
| 100 | 10.67 | 10.66 | 33.670 D | 25.801 | 220.9 | 0.273 | | | | | | | | | | 100 1 |
| 125 | 9.96 | 9.95 | 33.879 D | 26.086 | 194.3 | 0.325 | | | | | | | | | | 126 1 |
| 150 | 9.55 | 9.53 | 33.982 D | 26.235 | 180.5 | 0.372 | | | | | | | | | | 151 1 |
| 170 | 8.91 | 8.89 | 34.020 | 26.368 | 168.1 | 0.407 | 2.62 | 40.2 | 33.1 | 2.05 | 27.0 | 0.00 | 0.00 | 0.03 | 171 208 | |
| 196 | 8.50 | 8.48 | 34.076 | 26.476 | 158.3 | 0.449 | 2.29 | 34.8 | 38.0 | 2.23 | 29.0 | 0.00 | 0.00 | 0.03 | 197 207 | |
| 200 ISL | 8.46 | 8.44 | 34.082 | 26.487 | 157.3 | 0.456 | 2.24 | 34.0 | 38.5 | 2.25 | 29.2 | 0.00 | | | | 201 |
| 229 | 8.21 | 8.19 | 34.119 | 26.554 | 151.3 | 0.500 | 1.94 | 29.3 | 42.2 | 2.37 | 30.6 | 0.00 | | | | 230 206 |
| 250 ISL | 7.96 | 7.93 | 34.138 | 26.607 | 146.7 | 0.532 | 1.74 | 26.1 | 45.7 | 2.47 | 31.8 | 0.00 | | | | 251 |
| 268 | 7.76 | 7.73 | 34.153 | 26.648 | 142.9 | 0.558 | 1.58 | 23.6 | 48.7 | 2.56 | 32.7 | 0.00 | | | | 270 205 |
| 300 ISL | 7.56 | 7.53 | 34.192 | 26.708 | 137.7 | 0.603 | 1.28 | 19.1 | 52.9 | 2.69 | 33.9 | 0.00 | | | | 302 |
| 317 | 7.47 | 7.44 | 34.210 | 26.735 | 135.4 | 0.626 | 1.13 | 16.8 | 55.0 | 2.75 | 34.5 | 0.00 | | | | 319 204 |
| 377 | 6.84 | 6.80 | 34.217 | 26.829 | 127.0 | 0.705 | 0.83 | 12.2 | 63.7 | 2.94 | 36.9 | 0.00 | | | | 379 203 |
| 400 ISL | 6.71 | 6.67 | 34.237 | 26.862 | 124.1 | 0.733 | 0.71 | 10.4 | 66.5 | 3.00 | 37.5 | 0.00 | | | | 403 |
| 436 | 6.56 | 6.52 | 34.272 | 26.910 | 120.0 | 0.777 | 0.53 | 7.7 | 70.4 | 3.08 | 38.3 | 0.00 | | | | 439 202 |
| 500 ISL | 6.24 | 6.20 | 34.298 | 26.973 | 114.7 | 0.852 | 0.37 | 5.3 | 76.2 | 3.14 | 39.5 | 0.00 | | | | 503 |
| 516 | 6.16 | 6.11 | 34.305 | 26.989 | 113.3 | 0.871 | 0.33 | 4.8 | 77.6 | 3.16 | 39.8 | 0.00 | | | | 520 201 |

A) WATER SAMPLES ABOVE 170 METERS MISSING DUE TO ROSETTE FAILURE ON THE UP CAST.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-----------|-----------|--------|--------|--------|------|---------|-------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | BAROMETER | DRY | WET | SECCHI | CLD | AMT | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | 1016.2 mb | 14.4 C | 11.9 C | | | | db | |
| 0 ISL | 14.99 | 14.99 | 33.515 | 24.830 | 310.9 | 0.000 | 5.83 | 101.5 | 3.0 | 0.31 | 0.1 | 0.01 | 0.36 | 0.14 | 0 | |
| 3 A | 14.99 | 14.99 | 33.515 | 24.830 | 311.0 | 0.009 | 5.83 | 101.5 | 3.0 | 0.31 | 0.1 | 0.01 | 0.36 | 0.14 | 3 223 | |
| 9 A | 14.98 | 14.98 | 33.514 | 24.832 | 311.1 | 0.028 | 5.84 | 101.7 | 2.9 | 0.31 | 0.1 | 0.01 | | | | 9 222 |
| 10 ISL | 14.98 | 14.98 | 33.514 | 24.832 | 311.1 | 0.031 | 5.84 | 101.7 | 2.9 | 0.31 | 0.1 | 0.01 | 0.35 | 0.14 | 10 | |
| 19 A | 14.98 | 14.98 | 33.514 | 24.832 | 311.3 | 0.059 | 5.83 | 101.5 | 2.9 | 0.31 | 0.1 | 0.01 | 0.35 | 0.14 | 19 221 | |
| 20 ISL | 14.98 | 14.98 | 33.514 | 24.832 | 311.4 | 0.062 | 5.83 | 101.5 | 2.9 | 0.31 | 0.1 | 0.01 | 0.35 | 0.14 | 20 | |
| 30 A | 14.97 | 14.97 | 33.513 | 24.834 | 311.5 | 0.093 | 5.85 | 101.8 | 2.8 | 0.31 | 0.1 | 0.01 | 0.36 | 0.14 | 30 220 | |
| 39 A | 14.96 | 14.95 | 33.513 | 24.836 | 311.5 | 0.121 | 5.84 | 101.6 | 2.8 | 0.32 | 0.1 | 0.01 | 0.36 | 0.15 | 39 219 | |
| 46 | 14.92 | 14.91 | 33.510 | 24.843 | 311.1 | 0.143 | 5.83 | 101.4 | 2.7 | 0.32 | 0.1 | 0.02 | 0.35 | 0.15 | 46 218 | |
| 50 ISL | 14.89 | 14.88 | 33.509 | 24.849 | 310.7 | 0.156 | 5.84 | 101.5 | 2.7 | 0.32 | 0.1 | 0.03 | 0.37 | 0.16 | 50 | |
| 52 A | 14.87 | 14.86 | 33.508 | 24.852 | 310.4 | 0.162 | 5.84 | 101.5 | 2.7 | 0.32 | 0.1 | 0.03 | 0.38 | 0.16 | 52 217 | |
| 59 | 14.00 | 13.99 | 33.446 | 24.989 | 297.5 | 0.183 | 5.77 | 98.4 | 3.3 | 0.42 | 1.0 | 0.20 | 0.40 | 0.18 | 59 216 | |
| 65 | 13.18 | 13.17 | 33.393 | 25.115 | 285.6 | 0.201 | 5.65 | 94.7 | 4.5 | 0.55 | 2.9 | 0.15 | 0.37 | 0.29 | 65 215 | |
| 75 | 11.75 | 11.74 | 33.358 | 25.363 | 262.1 | 0.228 | 5.35 | 87.0 | 7.2 | 0.79 | 6.9 | 0.02 | 0.15 | 0.16 | 75 214 | |
| 84 | 11.05 | 11.04 | 33.433 | 25.549 | 244.6 | 0.251 | 4.97 | 79.7 | 9.8 | 1.05 | 10.4 | 0.02 | 0.12 | 0.13 | 84 213 | |
| 94 | 10.53 | 10.52 | 33.473 | 25.672 | 233.0 | 0.275 | 4.78 | 75.8 | 11.9 | 1.13 | 12.7 | 0.01 | 0.08 | 0.10 | 94 212 | |
| 100 ISL | 10.40 | 10.39 | 33.498 | 25.714 | 229.1 | 0.289 | 4.64 | 73.4 | 13.0 | 1.19 | 13.9 | 0.01 | 0.07 | 0.09 | 100 | |
| 110 | 10.29 | 10.28 | 33.565 | 25.785 | 222.6 | 0.311 | 4.30 | 67.8 | 15.3 | 1.34 | 16.1 | 0.01 | 0.05 | 0.07 | 111 211 | |
| 125 | 10.07 | 10.06 | 33.767 | 25.980 | 204.3 | 0.343 | 3.42 | 53.8 | 21.7 | 1.67 | 21.4 | 0.01 | 0.02 | 0.04 | 126 210 | |
| 146 | 9.48 | 9.46 | 33.894 | 26.178 | 185.9 | 0.384 | 3.07 | 47.7 | 26.8 | 1.84 | 24.3 | 0.01 | 0.00 | 0.02 | 147 209 | |
| 150 ISL | 9.40 | 9.38 | 33.903 | 26.198 | 184.0 | 0.392 | 3.05 | 47.3 | 27.3 | 1.86 | 24.6 | 0.01 | 0.00 | 0.02 | 151 | |
| 170 | 9.10 | 9.08 | 33.937 | 26.273 | 177.2 | 0.428 | 2.95 | 45.4 | 29.6 | 1.94 | 25.7 | 0.00 | 0.00 | 0.02 | 171 208 | |
| 199 | 8.78 | 8.76 | 34.062 | 26.422 | 163.6 | 0.477 | 2.31 | 35.4 | 36.0 | 2.19 | 28.5 | 0.00 | 0.00 | 0.04 | 200 207 | |
| 200 ISL | 8.76 | 8.74 | 34.063 | 26.426 | 163.2 | 0.479 | 2.31 | 35.3 | 36.2 | 2.19 | 28.5 | 0.00 | | | 201 | |
| 229 | 8.10 | 8.08 | 34.062 | 26.526 | 154.0 | 0.525 | 2.39 | 36.0 | 40.2 | 2.23 | 29.7 | 0.00 | | | 230 206 | |
| 250 ISL | 7.85 | 7.83 | 34.087 | 26.583 | 148.8 | 0.556 | 2.14 | 32.1 | 43.6 | 2.34 | 30.9 | 0.00 | | | 251 | |
| 264 | 7.74 | 7.71 | 34.108 | 26.616 | 145.9 | 0.577 | 1.91 | 28.6 | 46.0 | 2.43 | 31.8 | 0.00 | | | 266 205 | |
| 300 ISL | 7.43 | 7.40 | 34.154 | 26.697 | 138.7 | 0.628 | 1.44 | 21.4 | 52.4 | 2.63 | 33.9 | 0.00 | | | 302 | |
| 317 | 7.29 | 7.26 | 34.172 | 26.731 | 135.7 | 0.652 | 1.25 | 18.5 | 55.4 | 2.71 | 34.8 | 0.00 | | | 319 204 | |
| 377 | 6.67 | 6.64 | 34.198 | 26.837 | 126.1 | 0.730 | 0.84 | 12.3 | 65.4 | 2.90 | 37.5 | 0.00 | | | 379 203 | |
| 400 ISL | 6.52 | 6.48 | 34.220 | 26.874 | 122.8 | 0.759 | 0.70 | 10.2 | 68.8 | 2.97 | 38.3 | 0.00 | | | 403 | |
| 438 | 6.31 | 6.27 | 34.261 | 26.934 | 117.5 | 0.804 | 0.50 | 7.2 | 73.8 | 3.08 | 39.3 | 0.00 | | | 441 202 | |
| 500 ISL | 6.00 | 5.96 | 34.312 | 27.015 | 110.5 | 0.875 | 0.32 | 4.6 | 80.5 | 3.18 | 40.5 | 0.00 | | | 503 | |
| 516 | 5.92 | 5.87 | 34.326 | 27.036 | 108.6 | 0.893 | 0.27 | 3.9 | 82.2 | 3.20 | 40.8 | 0.00 | | | 520 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 30.7 N | 120 14.7 W | 10/01/01 | 0023 | UTC | 3927 m | 310 | 17 kn | 310 06 07 | 1 | 1016.1 mb | 14.3 C | 11.3 C | | 2/8 | AC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.50 | 15.50 | 33.548 | 24.744 | 319.2 | 0.000 | 5.80 | 102.1 | 2.9 | 0.30 | 0.0 | 0.00 | 0.23 | 0.06 | 0 | |
| 2 | 15.50 | 15.50 | 33.548 | 24.744 | 319.2 | 0.006 | 5.80 | 102.1 | 2.9 | 0.30 | 0.0 | 0.00 | 0.23 | 0.06 | 2 | 220 |
| 10 ISL | 15.49 | 15.49 | 33.547 | 24.746 | 319.3 | 0.032 | 5.79 | 101.9 | 2.8 | 0.30 | 0.0 | 0.00 | 0.23 | 0.07 | 10 | |
| 15 | 15.49 | 15.49 | 33.547 | 24.746 | 319.5 | 0.048 | 5.79 | 101.9 | 2.8 | 0.30 | 0.0 | 0.00 | 0.23 | 0.07 | 15 | 219 |
| 20 ISL | 15.47 | 15.47 | 33.544 | 24.748 | 319.4 | 0.064 | 5.80 | 102.0 | 2.8 | 0.30 | 0.0 | 0.00 | 0.24 | 0.07 | 20 | |
| 30 | 15.43 | 15.43 | 33.539 | 24.753 | 319.2 | 0.096 | 5.81 | 102.1 | 2.8 | 0.31 | 0.0 | 0.00 | 0.25 | 0.08 | 30 | 218 |
| 45 | 15.41 | 15.40 | 33.537 | 24.757 | 319.3 | 0.144 | 5.80 | 101.9 | 2.8 | 0.30 | 0.0 | 0.00 | 0.26 | 0.08 | 45 | 217 |
| 50 ISL | 15.14 | 15.13 | 33.487 | 24.778 | 317.5 | 0.160 | 5.84 | 102.0 | 3.0 | 0.31 | 0.1 | 0.00 | 0.35 | 0.14 | 50 | |
| 55 | 14.73 | 14.72 | 33.438 | 24.829 | 312.7 | 0.175 | 5.88 | 101.8 | 3.2 | 0.33 | 0.1 | 0.01 | 0.42 | 0.21 | 55 | 216 |
| 66 | 13.24 | 13.23 | 33.438 | 25.138 | 283.5 | 0.208 | 5.84 | 98.1 | 4.0 | 0.41 | 1.1 | 0.12 | 0.35 | 0.30 | 66 | 215 |
| 75 | 12.14 | 12.13 | 33.390 | 25.315 | 266.7 | 0.233 | 5.61 | 92.0 | 5.3 | 0.58 | 3.6 | 0.08 | 0.26 | 0.27 | 75 | 214 |
| 84 | 11.74 | 11.73 | 33.358 | 25.365 | 262.1 | 0.257 | 5.47 | 89.0 | 6.3 | 0.69 | 5.4 | 0.05 | 0.24 | 0.25 | 84 | 213 |
| 95 | 10.72 | 10.71 | 33.293 | 25.498 | 249.5 | 0.285 | 5.30 | 84.3 | 8.9 | 0.91 | 9.0 | 0.01 | 0.12 | 0.14 | 95 | 212 |
| 100 ISL | 10.43 | 10.42 | 33.304 | 25.557 | 244.0 | 0.297 | 5.21 | 82.3 | 9.9 | 0.99 | 10.4 | 0.01 | 0.09 | 0.12 | 100 | |
| 109 | 10.09 | 10.08 | 33.360 | 25.659 | 234.5 | 0.319 | 5.02 | 78.8 | 11.8 | 1.12 | 12.6 | 0.01 | 0.07 | 0.09 | 110 | 211 |
| 123 | 9.82 | 9.81 | 33.487 | 25.803 | 221.0 | 0.351 | 4.56 | 71.2 | 15.4 | 1.32 | 15.9 | 0.01 | 0.04 | 0.06 | 124 | 210 |
| 125 ISL | 9.81 | 9.80 | 33.513 | 25.825 | 218.9 | 0.355 | 4.46 | 69.6 | 16.1 | 1.36 | 16.5 | 0.01 | 0.04 | 0.06 | 126 | |
| 143 | 9.72 | 9.70 | 33.738 | 26.016 | 201.2 | 0.393 | 3.55 | 55.4 | 22.3 | 1.67 | 21.6 | 0.00 | 0.01 | 0.03 | 144 | 209 |
| 150 ISL | 9.65 | 9.63 | 33.797 | 26.074 | 195.8 | 0.407 | 3.37 | 52.5 | 23.8 | 1.73 | 22.6 | 0.00 | 0.01 | 0.03 | 151 | |
| 170 | 9.38 | 9.36 | 33.911 | 26.208 | 183.5 | 0.445 | 3.11 | 48.2 | 27.0 | 1.83 | 24.4 | 0.00 | 0.00 | 0.02 | 171 | 208 |
| 197 | 8.99 | 8.97 | 33.987 | 26.330 | 172.3 | 0.493 | 2.91 | 44.7 | 30.8 | 1.95 | 26.1 | 0.00 | 0.00 | 0.02 | 198 | 207 |
| 200 ISL | 8.95 | 8.93 | 33.994 | 26.342 | 171.2 | 0.498 | 2.88 | 44.2 | 31.3 | 1.97 | 26.3 | 0.00 | | | 201 | |
| 229 | 8.50 | 8.48 | 34.045 | 26.452 | 161.1 | 0.546 | 2.60 | 39.5 | 35.8 | 2.11 | 28.1 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.10 | 8.07 | 34.044 | 26.512 | 155.7 | 0.579 | 2.53 | 38.1 | 39.0 | 2.17 | 29.3 | 0.00 | | | 251 | |
| 270 | 7.73 | 7.70 | 34.038 | 26.562 | 151.1 | 0.610 | 2.44 | 36.4 | 42.3 | 2.24 | 30.4 | 0.00 | | | 272 | 205 |
| 300 ISL | 7.35 | 7.32 | 34.068 | 26.640 | 144.0 | 0.654 | 2.03 | 30.1 | 48.2 | 2.43 | 32.4 | 0.00 | | | 302 | |
| 318 | 7.16 | 7.13 | 34.089 | 26.683 | 140.0 | 0.680 | 1.77 | 26.1 | 51.7 | 2.54 | 33.6 | 0.00 | | | 320 | 204 |
| 380 | 6.53 | 6.50 | 34.108 | 26.784 | 131.0 | 0.764 | 1.33 | 19.3 | 61.2 | 2.74 | 36.5 | 0.00 | | | 382 | 203 |
| 400 ISL | 6.43 | 6.39 | 34.135 | 26.819 | 128.0 | 0.790 | 1.13 | 16.4 | 64.4 | 2.82 | 37.3 | 0.00 | | | 402 | |
| 438 | 6.28 | 6.24 | 34.189 | 26.881 | 122.5 | 0.837 | 0.78 | 11.3 | 70.1 | 2.96 | 38.6 | 0.00 | | | 441 | 202 |
| 500 ISL | 5.93 | 5.89 | 34.229 | 26.958 | 115.7 | 0.911 | 0.53 | 7.6 | 77.7 | 3.09 | 40.2 | 0.00 | | | 503 | |
| 517 | 5.83 | 5.79 | 34.240 | 26.979 | 113.8 | 0.931 | 0.46 | 6.6 | 79.8 | 3.12 | 40.7 | 0.00 | | | 520 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| 31 11.1 N | 120 55.2 W | 10/01/01 | 0633 | UTC | 3816 m | 310 | 11 kn | | | 1019.0 mb | 16.1 C | 13.2 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 16.67 | 16.67 | 33.718 | 24.609 | 332.0 | 0.000 | 5.59 | 100.8 | 2.6 | 0.27 | 0.0 | 0.00 | 0.16 | 0.05 | 0 | |
| 3 | 16.67 | 16.67 | 33.718 | 24.609 | 332.1 | 0.010 | 5.59 | 100.8 | 2.6 | 0.27 | 0.0 | 0.00 | 0.16 | 0.05 | 3 | 220 |
| 10 ISL | 16.67 | 16.67 | 33.718 | 24.609 | 332.3 | 0.033 | 5.59 | 100.8 | 2.5 | 0.27 | 0.0 | 0.00 | 0.15 | 0.04 | 10 | |
| 15 | 16.67 | 16.67 | 33.718 | 24.609 | 332.5 | 0.050 | 5.59 | 100.8 | 2.5 | 0.27 | 0.0 | 0.00 | 0.15 | 0.04 | 15 | 219 |
| 20 ISL | 16.67 | 16.67 | 33.718 | 24.609 | 332.6 | 0.066 | 5.59 | 100.8 | 2.5 | 0.27 | 0.0 | 0.00 | 0.15 | 0.04 | 20 | |
| 30 | 16.68 | 16.68 | 33.718 | 24.607 | 333.2 | 0.100 | 5.59 | 100.8 | 2.6 | 0.28 | 0.0 | 0.00 | 0.16 | 0.04 | 30 | 218 |
| 45 | 16.68 | 16.67 | 33.718 | 24.608 | 333.6 | 0.150 | 5.59 | 100.8 | 2.5 | 0.27 | 0.1 | 0.00 | 0.15 | 0.05 | 45 | 217 |
| 50 ISL | 16.68 | 16.67 | 33.718 | 24.608 | 333.8 | 0.166 | 5.59 | 100.8 | 2.5 | 0.27 | 0.1 | 0.00 | 0.15 | 0.05 | 50 | |
| 59 | 16.69 | 16.68 | 33.718 | 24.606 | 334.2 | 0.197 | 5.59 | 100.8 | 2.6 | 0.28 | 0.1 | 0.00 | 0.15 | 0.05 | 59 | 216 |
| 74 | 16.69 | 16.68 | 33.718 | 24.607 | 334.7 | 0.247 | 5.56 | 100.3 | 2.5 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | 74 | 215 |
| 75 ISL | 16.67 | 16.66 | 33.717 | 24.611 | 334.3 | 0.250 | 5.56 | 100.2 | 2.5 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | 75 | |
| 84 | 16.52 | 16.51 | 33.710 | 24.640 | 331.8 | 0.280 | 5.62 | 101.0 | 2.6 | 0.26 | 0.1 | 0.00 | 0.17 | 0.07 | 84 | 214 |
| 96 | 13.95 | 13.94 | 33.562 | 25.090 | 289.0 | 0.317 | 5.79 | 98.7 | 3.5 | 0.36 | 0.4 | 0.08 | 0.26 | 0.17 | 96 | 213 |
| 100 ISL | 13.51 | 13.50 | 33.541 | 25.164 | 282.0 | 0.329 | 5.74 | 97.0 | 3.8 | 0.40 | 0.8 | 0.11 | 0.25 | 0.19 | 100 | |
| 105 | 13.12 | 13.11 | 33.518 | 25.225 | 276.3 | 0.343 | 5.65 | 94.7 | 4.2 | 0.45 | 1.5 | 0.13 | 0.23 | 0.20 | 105 | 212 |
| 115 | 12.40 | 12.38 | 33.456 | 25.317 | 267.6 | 0.370 | 5.54 | 91.4 | 5.2 | 0.55 | 3.2 | 0.09 | 0.19 | 0.18 | 115 | 211 |
| 124 | 11.72 | 11.70 | 33.448 | 25.455 | 254.5 | 0.393 | 5.15 | 83.8 | 7.9 | 0.82 | 7.6 | 0.02 | 0.13 | 0.15 | 125 | 210 |
| 125 ISL | 11.64 | 11.62 | 33.472 | 25.473 | 252.8 | 0.396 | 5.11 | 83.0 | 8.2 | 0.85 | 8.0 | 0.02 | 0.13 | 0.15 | 126 | |
| 139 | 10.71 | 10.69 | 33.558 | 25.707 | 230.7 | 0.430 | 4.54 | 72.3 | 13.1 | 1.18 | 13.4 | 0.01 | 0.08 | 0.09 | 140 | 209 |
| 150 ISL | 10.55 | 10.53 | 33.699 | 25.845 | 217.8 | 0.454 | 3.94 | 62.6 | 17.2 | 1.43 | 17.1 | 0.00 | 0.05 | 0.06 | 151 | |
| 165 | 10.34 | 10.32 | 33.840 | 25.992 | 204.2 | 0.486 | 3.16 | 50.0 | 22.5 | 1.71 | 21.1 | 0.00 | 0.02 | 0.04 | 166 | 208 |
| 194 | 9.92 | 9.90 | 34.020 | 26.204 | 184.5 | 0.542 | 2.36 | 37.0 | 29.1 | 2.04 | 25.4 | 0.00 | 0.00 | 0.03 | 195 | 207 |
| 200 ISL | 9.85 | 9.83 | 34.039 | 26.231 | 182.1 | 0.553 | 2.30 | 36.0 | 29.8 | 2.07 | 25.8 | 0.00 | | | 201 | |
| 228 | 9.57 | 9.54 | 34.100 | 26.326 | 173.7 | 0.603 | 2.17 | 33.8 | 32.3 | 2.16 | 27.0 | 0.00 | | | 229 | 206 |
| 250 ISL | 9.37 | 9.34 | 34.149 | 26.397 | 167.3 | 0.641 | 1.97 | 30.6 | 34.8 | 2.26 | 28.0 | 0.00 | | | 251 | |
| 269 | 9.21 | 9.18 | 34.186 | 26.452 | 162.4 | 0.672 | 1.78 | 27.5 | 37.0 | 2.34 | 28.8 | 0.00 | | | 270 | 205 |
| 300 ISL | 8.93 | 8.90 | 34.222 | 26.526 | 155.9 | 0.721 | 1.52 | 2 | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 30 50.9 N | 121 35.4 W | 10/01/01 | 1243 | UTC | 4097 m | 290 | 08 kn | | | | | | | | | |
| 0 ISL | 16.69 | 16.69 | 33.740 | 24.621 | 330.9 | 0.000 | 5.58 | 100.7 | 2.6 | 0.26 | 0.0 | 0.00 | 0.11 | 0.03 | 0 | |
| 2 | 16.69 | 16.69 | 33.740 | 24.621 | 330.9 | 0.007 | 5.58 | 100.7 | 2.6 | 0.26 | 0.0 | 0.00 | 0.11 | 0.03 | 2 | 220 |
| 10 ISL | 16.68 | 16.68 | 33.737 | 24.621 | 331.2 | 0.033 | 5.57 | 100.5 | 2.5 | 0.26 | 0.0 | 0.00 | 0.12 | 0.03 | 10 | |
| 15 | 16.68 | 16.68 | 33.736 | 24.621 | 331.4 | 0.050 | 5.57 | 100.5 | 2.5 | 0.26 | 0.0 | 0.00 | 0.12 | 0.03 | 15 | 219 |
| 20 ISL | 16.63 | 16.63 | 33.720 | 24.620 | 331.6 | 0.066 | 5.58 | 100.5 | 2.5 | 0.26 | 0.0 | 0.00 | 0.12 | 0.03 | 20 | |
| 30 | 16.47 | 16.47 | 33.673 | 24.621 | 331.8 | 0.099 | 5.61 | 100.7 | 2.6 | 0.26 | 0.0 | 0.00 | 0.12 | 0.04 | 30 | 218 |
| 45 | 16.19 | 16.18 | 33.606 | 24.635 | 331.0 | 0.149 | 5.63 | 100.5 | 2.6 | 0.27 | 0.0 | 0.00 | 0.14 | 0.04 | 45 | 217 |
| 50 ISL | 16.16 | 16.15 | 33.603 | 24.640 | 330.7 | 0.166 | 5.65 | 100.8 | 2.6 | 0.27 | 0.0 | 0.00 | 0.14 | 0.05 | 50 | |
| 55 | 16.10 | 16.09 | 33.597 | 24.649 | 330.0 | 0.182 | 5.68 | 101.2 | 2.6 | 0.27 | 0.0 | 0.00 | 0.14 | 0.05 | 55 | 216 |
| 65 | 15.67 | 15.66 | 33.541 | 24.703 | 325.1 | 0.215 | 5.73 | 101.2 | 2.7 | 0.29 | 0.0 | 0.00 | 0.25 | 0.13 | 65 | 215 |
| 75 | 14.31 | 14.30 | 33.478 | 24.949 | 301.8 | 0.246 | 5.82 | 99.9 | 3.3 | 0.34 | 0.2 | 0.04 | 0.47 | 0.35 | 75 | 214 |
| 85 | 13.59 | 13.58 | 33.472 | 25.094 | 288.2 | 0.276 | 5.69 | 96.3 | 3.9 | 0.42 | 1.2 | 0.14 | 0.34 | 0.28 | 85 | 213 |
| 95 | 12.73 | 12.72 | 33.478 | 25.270 | 271.6 | 0.304 | 5.43 | 90.2 | 5.3 | 0.58 | 3.9 | 0.03 | 0.21 | 0.22 | 95 | 212 |
| 100 ISL | 12.42 | 12.41 | 33.481 | 25.333 | 265.7 | 0.317 | 5.32 | 87.8 | 6.1 | 0.65 | 5.1 | 0.03 | 0.18 | 0.20 | 100 | |
| 109 | 12.00 | 11.99 | 33.484 | 25.415 | 258.0 | 0.341 | 5.16 | 84.4 | 7.3 | 0.76 | 7.0 | 0.02 | 0.15 | 0.16 | 109 | 211 |
| 125 | 11.44 | 11.42 | 33.476 | 25.513 | 249.0 | 0.381 | 5.02 | 81.2 | 8.7 | 0.88 | 8.9 | 0.01 | 0.10 | 0.12 | 126 | 210 |
| 144 | 10.69 | 10.67 | 33.564 | 25.716 | 230.0 | 0.427 | 4.55 | 72.4 | 12.9 | 1.13 | 13.2 | 0.01 | 0.06 | 0.08 | 145 | 209 |
| 150 ISL | 10.49 | 10.47 | 33.584 | 25.766 | 225.3 | 0.441 | 4.44 | 70.4 | 14.1 | 1.20 | 14.4 | 0.01 | 0.05 | 0.07 | 151 | |
| 171 | 9.90 | 9.88 | 33.675 | 25.938 | 209.3 | 0.486 | 4.01 | 62.8 | 18.6 | 1.44 | 18.3 | 0.00 | 0.02 | 0.04 | 172 | 208 |
| 200 | 9.31 | 9.29 | 33.933 | 26.237 | 181.3 | 0.543 | 3.00 | 46.4 | 27.8 | 1.86 | 24.6 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 228 | 8.78 | 8.76 | 33.977 | 26.356 | 170.4 | 0.592 | 3.05 | 46.6 | 31.0 | 1.90 | 25.8 | 0.00 | | | 229 | 206 |
| 250 ISL | 8.61 | 8.58 | 34.050 | 26.440 | 162.8 | 0.629 | 2.61 | 39.8 | 35.0 | 2.07 | 27.6 | 0.00 | | | 251 | |
| 269 | 8.50 | 8.47 | 34.111 | 26.505 | 156.9 | 0.659 | 2.14 | 32.5 | 38.8 | 2.25 | 29.2 | 0.00 | | | 270 | 205 |
| 300 ISL | 8.09 | 8.06 | 34.145 | 26.594 | 148.9 | 0.706 | 1.79 | 27.0 | 44.1 | 2.42 | 31.1 | 0.00 | | | 302 | |
| 319 | 7.81 | 7.78 | 34.151 | 26.640 | 144.6 | 0.734 | 1.64 | 24.6 | 47.2 | 2.50 | 32.2 | 0.00 | | | 321 | 204 |
| 378 | 7.05 | 7.01 | 34.174 | 26.766 | 133.1 | 0.816 | 1.17 | 17.2 | 57.5 | 2.73 | 35.4 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.92 | 6.88 | 34.199 | 26.804 | 129.8 | 0.845 | 0.96 | 14.1 | 60.8 | 2.82 | 36.3 | 0.00 | | | 402 | |
| 440 | 6.77 | 6.73 | 34.248 | 26.864 | 124.7 | 0.896 | 0.61 | 8.9 | 66.0 | 2.96 | 37.5 | 0.00 | | | 443 | 202 |
| 500 ISL | 6.48 | 6.43 | 34.293 | 26.938 | 118.3 | 0.969 | 0.39 | 5.7 | 72.0 | 3.08 | 38.8 | 0.00 | | | 503 | |
| 512 | 6.42 | 6.37 | 34.302 | 26.953 | 116.9 | 0.983 | 0.35 | 5.1 | 73.2 | 3.10 | 39.0 | 0.00 | | | 515 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 30 30.9 N | 122 15.9 W | 10/01/01 | 1905 | UTC | 4195 m | 320 | 20 kn | 240 05 09 | 1 | 1016.9 mb | 18.0 | C 15.6 C | 33m | 6/8 | SC | |
| 0 ISL | 16.99 | 16.99 | 33.774 | 24.577 | 335.1 | 0.000 | 5.57 | 101.1 | 2.4 | 0.25 | 0.0 | 0.00 | 0.12 | 0.04 | 0 | |
| 2 A | 16.99 | 16.99 | 33.774 | 24.577 | 335.1 | 0.007 | 5.57 | 101.1 | 2.4 | 0.25 | 0.0 | 0.00 | 0.12 | 0.04 | 2 | 223 |
| 10 A | 16.99 | 16.99 | 33.773 | 24.576 | 335.5 | 0.034 | 5.57 | 101.1 | 2.3 | 0.25 | 0.0 | 0.00 | 0.12 | 0.03 | 10 | 222 |
| 20 A | 16.99 | 16.99 | 33.773 | 24.577 | 335.8 | 0.067 | 5.57 | 101.1 | 2.3 | 0.25 | 0.0 | 0.00 | 0.13 | 0.04 | 20 | 221 |
| 30 ISL | 16.98 | 16.98 | 33.772 | 24.579 | 335.9 | 0.101 | 5.58 | 101.3 | 2.2 | 0.25 | 0.0 | 0.00 | 0.12 | 0.04 | 30 | |
| 31 | 16.98 | 16.97 | 33.772 | 24.579 | 335.9 | 0.104 | 5.58 | 101.3 | 2.2 | 0.25 | 0.0 | 0.00 | 0.12 | 0.04 | 31 | 220 |
| 42 A | 16.98 | 16.97 | 33.771 | 24.578 | 336.3 | 0.141 | 5.57 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 | 0.13 | 0.04 | 42 | 219 |
| 50 ISL | 16.98 | 16.97 | 33.772 | 24.579 | 336.5 | 0.168 | 5.57 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 | 0.13 | 0.04 | 50 | |
| 54 | 16.98 | 16.97 | 33.772 | 24.580 | 336.6 | 0.181 | 5.57 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 | 0.13 | 0.04 | 54 | 218 |
| 67 A | 16.97 | 16.96 | 33.769 | 24.580 | 337.0 | 0.225 | 5.59 | 101.4 | 2.0 | 0.25 | 0.0 | 0.00 | 0.13 | 0.04 | 67 | 217 |
| 75 ISL | 15.93 | 15.92 | 33.583 | 24.677 | 327.9 | 0.252 | 5.70 | 101.2 | 2.2 | 0.29 | 0.0 | 0.00 | 0.23 | 0.12 | 75 | |
| 77 | 15.66 | 15.65 | 33.539 | 24.704 | 325.4 | 0.258 | 5.73 | 101.1 | 2.2 | 0.30 | 0.0 | 0.00 | 0.26 | 0.14 | 77 | 216 |
| 87 A | 15.20 | 15.19 | 33.511 | 24.784 | 318.0 | 0.290 | 5.76 | 100.7 | 2.3 | 0.33 | 0.0 | 0.03 | 0.31 | 0.18 | 87 | 215 |
| 95 | 14.73 | 14.72 | 33.553 | 24.919 | 305.4 | 0.315 | 5.73 | 99.3 | 2.6 | 0.35 | 0.2 | 0.12 | 0.30 | 0.20 | 95 | 214 |
| 100 ISL | 14.31 | 14.30 | 33.524 | 24.985 | 299.1 | 0.331 | 5.71 | 98.1 | 2.8 | 0.37 | 0.4 | 0.19 | 0.27 | 0.19 | 100 | |
| 103 | 14.10 | 14.09 | 33.511 | 25.020 | 295.9 | 0.339 | 5.70 | 97.5 | 2.9 | 0.39 | 0.6 | 0.22 | 0.25 | 0.19 | 103 | 213 |
| 112 | 14.16 | 14.14 | 33.611 | 25.084 | 290.0 | 0.366 | 5.50 | 94.2 | 2.9 | 0.42 | 1.2 | 0.11 | 0.24 | 0.19 | 112 | 212 |
| 122 A | 13.65 | 13.63 | 33.634 | 25.208 | 278.4 | 0.394 | 5.34 | 90.5 | 3.6 | 0.51 | 2.7 | 0.03 | 0.18 | 0.17 | 123 | 211 |
| 125 ISL | 13.51 | 13.49 | 33.636 | 25.238 | 275.6 | 0.403 | 5.30 | 89.6 | 4.2 | 0.53 | 3.0 | 0.03 | 0.17 | 0.16 | 126 | |
| 131 | 13.19 | 13.17 | 33.629 | 25.297 | 270.1 | 0.419 | 5.24 | 88.0 | 5.4 | 0.57 | 3.7 | 0.02 | 0.15 | 0.14 | 132 | 210 |
| 139 | 12.55 | 12.53 | 33.599 | 25.400 | 260.4 | 0.440 | 5.20 | 86.1 | 6.3 | 0.65 | 5.1 | 0.02 | 0.11 | 0.11 | 140 | 209 |
| 150 ISL | 11.79 | 11.77 | 33.579 | 25.529 | 248.2 | 0.468 | 5.06 | 82.5 | 8.0 | 0.78 | 7.3 | 0.02 | 0.08 | 0.08 | 151 | |
| 164 | 10.98 | 10.96 | 33.592 | 25.687 | 233.3 | 0.502 | 4.76 | 76.2 | 11.1 | 0.99 | 10.7 | 0.01 | 0.05 | 0.06 | 165 | 208 |
| 193 | 9.65 | 9.63 | 33.759 | 26.045 | 199.5 | 0.565 | 3.85 | 60.0 | 21.1 | 1.53 | 19.6 | 0.00 | 0.01 | 0.03 | 194 | 207 |
| 200 ISL | 9.48 | 9.46 | 33.799 | 26.104 | 193.9 | 0.578 | 3.72 | 57.7 | 22.8 | 1.60 | 20.8 | 0.00 | | | 201 | |
| 229 | 8.98 | 8.96 | 33.939 | 26.295 | 176.3 | 0.632 | 3.29 | 50.5 | 28.5 | 1.81 | 24.1 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.60 | 8.57 | 34.000 | 26.402 | 166.3 | 0.668 | 2.96 | 45.1 | 32.8 | 1.96 | 26.3 | 0.00 | | | 251 | |
| 269 | 8.30 | 8.27 | 34 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 30 10.9 N | 122 54.9 W | 11/01/01 | 0358 | UTC | 3981 m | 240 | 16 kn | | | | | | | | | |
| 0 ISL | 16.57 | 16.57 | 33.620 | 24.557 | 337.0 | 0.000 | 5.64 | 101.4 | 2.9 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 0 | |
| 4 | 16.57 | 16.57 | 33.620 | 24.557 | 337.1 | 0.013 | 5.64 | 101.4 | 2.9 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 4 | 220 |
| 10 ISL | 16.57 | 16.57 | 33.620 | 24.557 | 337.3 | 0.034 | 5.64 | 101.4 | 2.9 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 10 | |
| 16 | 16.57 | 16.57 | 33.621 | 24.558 | 337.4 | 0.054 | 5.63 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 16 | 219 |
| 20 ISL | 16.58 | 16.58 | 33.624 | 24.558 | 337.5 | 0.067 | 5.62 | 101.1 | 2.8 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 20 | |
| 30 ISL | 16.61 | 16.61 | 33.632 | 24.558 | 337.9 | 0.101 | 5.61 | 101.0 | 2.8 | 0.28 | 0.1 | 0.00 | 0.12 | 0.03 | 30 | |
| 31 | 16.61 | 16.61 | 33.633 | 24.558 | 337.8 | 0.105 | 5.61 | 101.0 | 2.8 | 0.28 | 0.1 | 0.00 | 0.12 | 0.03 | 31 | 218 |
| 46 | 16.59 | 16.58 | 33.624 | 24.557 | 338.5 | 0.155 | 5.63 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 46 | 217 |
| 50 ISL | 16.61 | 16.60 | 33.631 | 24.558 | 338.5 | 0.169 | 5.62 | 101.1 | 2.8 | 0.28 | 0.1 | 0.00 | 0.11 | 0.03 | 50 | |
| 60 | 16.65 | 16.64 | 33.648 | 24.562 | 338.5 | 0.203 | 5.61 | 101.1 | 2.7 | 0.27 | 0.1 | 0.00 | 0.12 | 0.03 | 60 | 216 |
| 72 | 16.07 | 16.06 | 33.698 | 24.734 | 322.4 | 0.242 | 5.77 | 102.8 | 2.9 | 0.27 | 0.1 | 0.00 | 0.21 | 0.12 | 72 | 215 |
| 75 ISL | 16.03 | 16.02 | 33.756 | 24.788 | 317.4 | 0.252 | 5.78 | 102.9 | 2.9 | 0.27 | 0.1 | 0.00 | 0.21 | 0.14 | 75 | |
| 84 | 15.65 | 15.64 | 33.866 | 24.958 | 301.4 | 0.280 | 5.81 | 102.7 | 2.9 | 0.25 | 0.1 | 0.00 | 0.21 | 0.18 | 84 | 214 |
| 94 | 14.18 | 14.17 | 33.671 | 25.126 | 285.5 | 0.309 | 5.75 | 98.6 | 3.5 | 0.33 | 0.3 | 0.07 | 0.25 | 0.19 | 94 | 213 |
| 100 ISL | 13.53 | 13.52 | 33.629 | 25.228 | 275.9 | 0.326 | 5.66 | 95.7 | 4.0 | 0.41 | 1.3 | 0.08 | 0.23 | 0.20 | 100 | |
| 103 | 13.21 | 13.20 | 33.607 | 25.275 | 271.4 | 0.334 | 5.62 | 94.4 | 4.3 | 0.46 | 2.0 | 0.08 | 0.21 | 0.20 | 103 | 212 |
| 112 | 12.01 | 12.00 | 33.429 | 25.370 | 262.4 | 0.358 | 5.54 | 90.6 | 5.6 | 0.63 | 4.4 | 0.03 | 0.17 | 0.18 | 112 | 211 |
| 124 | 11.34 | 11.32 | 33.440 | 25.503 | 249.9 | 0.389 | 5.38 | 86.8 | 6.8 | 0.73 | 6.5 | 0.01 | 0.11 | 0.12 | 125 | 210 |
| 125 ISL | 11.29 | 11.27 | 33.439 | 25.511 | 249.1 | 0.391 | 5.37 | 86.5 | 6.9 | 0.74 | 6.7 | 0.01 | 0.11 | 0.12 | 126 | |
| 139 | 10.72 | 10.70 | 33.437 | 25.611 | 239.8 | 0.426 | 5.16 | 82.1 | 9.1 | 0.91 | 9.5 | 0.01 | 0.07 | 0.09 | 140 | 209 |
| 150 ISL | 10.46 | 10.44 | 33.512 | 25.715 | 230.1 | 0.452 | 4.97 | 78.7 | 10.8 | 1.00 | 11.3 | 0.01 | 0.05 | 0.07 | 151 | |
| 164 | 10.24 | 10.22 | 33.644 | 25.856 | 217.0 | 0.483 | 4.65 | 73.3 | 13.6 | 1.13 | 13.7 | 0.00 | 0.03 | 0.05 | 165 | 208 |
| 195 | 9.71 | 9.69 | 33.909 | 26.153 | 189.4 | 0.546 | 3.52 | 54.9 | 23.8 | 1.66 | 21.7 | 0.00 | 0.00 | 0.02 | 196 | 207 |
| 200 ISL | 9.56 | 9.54 | 33.927 | 26.192 | 185.8 | 0.555 | 3.50 | 54.5 | 24.8 | 1.69 | 22.3 | 0.00 | | | 201 | |
| 231 | 8.64 | 8.62 | 33.990 | 26.388 | 167.4 | 0.610 | 3.41 | 52.0 | 30.4 | 1.81 | 24.9 | 0.00 | | | 232 | 206 |
| 250 ISL | 8.32 | 8.29 | 34.040 | 26.476 | 159.2 | 0.641 | 3.04 | 46.0 | 34.9 | 1.98 | 26.9 | 0.00 | | | 251 | |
| 271 | 8.02 | 7.99 | 34.081 D | 26.553 | 152.1 | 0.674 | 2.57 | 38.7 | 40.1 | 2.18 | 29.1 | 0.00 | | | 272 | 205 |
| 300 ISL | 7.43 | 7.40 | 34.069 | 26.630 | 145.0 | 0.717 | 2.18 | 32.3 | 46.5 | 2.36 | 31.8 | 0.00 | | | 302 | |
| 318 | 7.09 | 7.06 | 34.054 | 26.666 | 141.7 | 0.743 | 2.00 | 29.4 | 50.2 | 2.45 | 33.2 | 0.00 | | | 320 | 204 |
| 378 | 6.53 | 6.50 | 34.090 | 26.770 | 132.3 | 0.825 | 1.44 | 20.9 | 60.2 | 2.69 | 36.2 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.34 | 6.30 | 34.112 | 26.812 | 128.5 | 0.853 | 1.21 | 17.5 | 64.5 | 2.79 | 37.4 | 0.00 | | | 402 | |
| 441 | 6.01 | 5.97 | 34.156 | 26.889 | 121.4 | 0.905 | 0.82 | 11.8 | 72.3 | 2.96 | 39.3 | 0.00 | | | 444 | 202 |
| 500 ISL | 5.66 | 5.62 | 34.210 | 26.976 | 113.7 | 0.974 | 0.54 | 7.7 | 81.0 | 3.10 | 41.0 | 0.00 | | | 503 | |
| 503 | 5.64 | 5.60 | 34.213 | 26.981 | 113.3 | 0.977 | 0.53 | 7.5 | 81.4 | 3.11 | 41.1 | 0.00 | | | 506 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 120

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 29 50.9 N | 123 34.9 W | 11/01/01 | 1149 | UTC | 4162 m | 350 | 22 kn | | | | | | | | | |
| 0 ISL | 15.96 | 15.96 | 33.383 | 24.514 | 341.1 | 0.000 | 5.68 | 100.8 | 3.0 | 0.30 | 0.0 | 0.00 | 0.17 | 0.06 | 0 | |
| 2 | 15.96 | 15.96 | 33.383 | 24.514 | 341.1 | 0.007 | 5.68 | 100.8 | 3.0 | 0.30 | 0.0 | 0.00 | 0.17 | 0.06 | 2 | 220 |
| 10 ISL | 15.97 | 15.97 | 33.385 | 24.514 | 341.4 | 0.034 | 5.69 | 101.0 | 3.0 | 0.30 | 0.0 | 0.00 | 0.16 | 0.06 | 10 | |
| 17 | 15.97 | 15.97 | 33.386 | 24.515 | 341.5 | 0.058 | 5.69 | 101.0 | 3.0 | 0.30 | 0.0 | 0.00 | 0.16 | 0.05 | 17 | 219 |
| 20 ISL | 15.97 | 15.97 | 33.385 | 24.514 | 341.7 | 0.068 | 5.69 | 101.0 | 3.0 | 0.30 | 0.0 | 0.00 | 0.14 | 0.04 | 20 | |
| 30 ISL | 15.96 | 15.96 | 33.382 | 24.514 | 342.0 | 0.102 | 5.68 | 100.8 | 2.9 | 0.31 | 0.0 | 0.00 | 0.08 | 0.03 | 30 | |
| 31 | 15.96 | 15.96 | 33.382 | 24.514 | 342.0 | 0.106 | 5.68 | 100.8 | 2.9 | 0.31 | 0.0 | 0.00 | 0.08 | 0.03 | 31 | 218 |
| 46 | 15.97 | 15.96 | 33.382 | 24.513 | 342.7 | 0.157 | 5.68 | 100.8 | 2.9 | 0.31 | 0.0 | 0.00 | 0.17 | 0.05 | 46 | 217 |
| 50 ISL | 15.98 | 15.97 | 33.384 | 24.512 | 342.8 | 0.171 | 5.68 | 100.8 | 2.9 | 0.31 | 0.0 | 0.00 | 0.17 | 0.05 | 50 | |
| 61 | 16.01 | 16.00 | 33.391 | 24.511 | 343.3 | 0.209 | 5.67 | 100.7 | 2.9 | 0.30 | 0.0 | 0.00 | 0.17 | 0.05 | 61 | 216 |
| 74 | 15.81 | 15.80 | 33.449 | 24.601 | 335.1 | 0.253 | 5.72 | 101.2 | 3.0 | 0.34 | 0.1 | 0.01 | 0.26 | 0.17 | 74 | 215 |
| 75 ISL | 15.67 | 15.66 | 33.447 | 24.631 | 332.3 | 0.256 | 5.74 | 101.3 | 3.0 | 0.34 | 0.1 | 0.02 | 0.26 | 0.17 | 75 | |
| 86 | 13.89 | 13.88 | 33.401 | 24.978 | 299.4 | 0.291 | 5.89 | 100.2 | 3.6 | 0.38 | 0.4 | 0.14 | 0.22 | 0.17 | 86 | 214 |
| 99 | 12.44 | 12.43 | 33.284 | 25.176 | 280.6 | 0.329 | 5.84 | 96.3 | 4.3 | 0.47 | 1.5 | 0.16 | 0.17 | 0.17 | 99 | 213 |
| 100 ISL | 12.37 | 12.36 | 33.283 | 25.189 | 279.4 | 0.331 | 5.83 | 96.0 | 4.4 | 0.48 | 1.6 | 0.15 | 0.17 | 0.16 | 100 | |
| 108 | 11.95 | 11.94 | 33.295 | 25.278 | 271.1 | 0.353 | 5.70 | 93.1 | 4.9 | 0.55 | 2.8 | 0.05 | 0.14 | 0.14 | 108 | 212 |
| 112 | 11.80 | 11.79 | 33.312 | 25.319 | 267.2 | 0.364 | 5.65 | 92.0 | 5.2 | 0.58 | 3.4 | 0.03 | 0.13 | 0.17 | 112 | 211 |
| 125 | 11.00 | 10.98 | 33.290 | 25.447 | 255.1 | 0.398 | 5.53 | 88.5 | 6.3 | 0.70 | 5.6 | 0.01 | 0.09 | 0.11 | 126 | 210 |
| 143 | 10.84 | 10.82 | 33.473 | 25.618 | 239.3 | 0.443 | 5.35 | 85.4 | 7.5 | 0.78 | 7.5 | 0.01 | 0.07 | 0.09 | 144 | 209 |
| 150 ISL | 10.50 | 10.48 | 33.518 | 25.713 | 230.3 | 0.459 | 5.09 | 80.7 | 9.9 | 0.93 | 10.0 | 0.01 | 0.05 | 0.07 | 151 | |
| 163 | 9.83 | 9.81 | 33.596 | 25.888 | 213.8 | 0.488 | 4.56 | 71.2 | 14.9 | 1.24 | 15.1 | 0.00 | 0.02 | 0.04 | 164 | 208 |
| 194 | 9.56 | 9.54 | 33.837 | 26.121 | 192.3 | 0.551 | 4.01 | 62.4 | 20.7 | 1.54 | 19.3 | 0.00 | 0.01 | 0.01 | 195 | 207 |
| 200 ISL | 9.49 | 9.47 | 33.874 | 26.161 | 188.5 | 0.562 | 4.01 | 62.3 | 21.4 | 1.54 | 19.7 | 0.00 | | | 201 | |
| 231 | 9.04 | 9.01 | 34.007 | 26.339 | 172.2 | 0.618 | 4.00 | 61.5 | 25.2 | 1.54</ | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|-------------------------------|
| | | | | 15 m | | 1218 - 1750 PST | 1218 PST | 1750 PST | 277.6 mg C/m2 |
| 34 43.3 N | 121 33.3 W | 22/01/01 | 1757 UTC | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 CHL-A |
| m | DEG C | THETA | ml/l | PCT | um/l | um/l | um/l | um/l | ug/l |
| 1 | 13.26 | 33.503 | 25.182 | 6.01 | 101.0 | 4.5 | 0.40 | 1.2 | 0.07 0.89 |
| 9 | 13.22 | 33.503 | 25.190 | 6.00 | 100.8 | 4.4 | 0.39 | 1.2 | 0.07 0.96 |
| 19 | 13.21 | 33.504 | 25.193 | 6.00 | 100.8 | 4.3 | 0.39 | 1.2 | 0.07 0.90 |
| 31 | 13.21 | 33.503 | 25.193 | 5.99 | 100.6 | 4.2 | 0.40 | 1.2 | 0.07 0.87 |
| 40 | 13.21 | 33.503 | 25.193 | 5.99 | 100.6 | 4.0 | 0.40 | 1.3 | 0.07 0.87 |
| 47 | 13.20 | 33.503 | 25.195 | 5.97 | 100.2 | 3.9 | 0.40 | 1.3 | 0.07 0.73 |
| 55 | 11.88 | 33.399 | 25.370 | 5.45 | 88.9 | 6.6 | 0.71 | 5.9 | 0.10 0.31 |
| | | | | | | | | | 0.23 0.36 0.13 0.17 0.15 0.03 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 77 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|------------------------------------|
| | | | | 20 m | | 1228 - 1758 PST | 1228 PST | 1758 PST | 171.5 mg C/m2 |
| 33 23.2 N | 124 19.8 W | 21/01/01 | 1753 UTC | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 CHL-A |
| m | DEG C | THETA | ml/l | PCT | um/l | um/l | um/l | um/l | ug/l |
| 2 | 13.84 | 33.225 | 24.849 | 5.99 | 101.7 | 4.0 | 0.36 | 0.3 | 0.02 0.52 |
| 12 | 13.83 | 33.225 | 24.852 | 5.98 | 101.5 | 3.9 | 0.36 | 0.3 | 0.02 0.52 |
| 19 | 13.83 | 33.226 | 24.853 | 5.98 | 101.5 | 3.9 | 0.36 | 0.3 | 0.02 0.50 |
| 25 | 13.82 | 33.227 | 24.856 | 5.95 | 101.0 | 3.8 | 0.35 | 0.3 | 0.02 0.50 |
| 33 | 13.75 | 33.241 | 24.881 | 5.97 | 101.2 | 3.9 | 0.37 | 0.5 | 0.03 0.50 |
| 41 | 13.55 | 33.273 | 24.947 | 5.93 | 100.1 | 4.0 | 0.40 | 0.8 | 0.05 0.41 |
| 53 | 13.43 | 33.294 | 24.988 | 5.92 | 99.7 | 4.0 | 0.41 | 1.1 | 0.07 0.47 |
| 64 | 13.39 | 33.315 | 25.012 | 5.92 | 99.6 | 4.0 | 0.42 | 1.2 | 0.08 0.38 |
| 73 | 13.34 | 33.324 | 25.030 | 5.89 | 99.0 | 4.0 | 0.43 | 1.4 | 0.09 0.37 |
| | | | | | | | | | 0.13 0.13 0.37 0.05 0.07 0.06 0.03 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|-------------------------------|
| | | | | 14 m | | 1218 - 1800 PST | 1218 PST | 1800 PST | 495.3 mg C/m2 |
| 33 49.0 N | 121 50.6 W | 20/01/01 | 1747 UTC | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 CHL-A |
| m | DEG C | THETA | ml/l | PCT | um/l | um/l | um/l | um/l | ug/l |
| 2 | 12.43 | 33.531 | 25.367 | 6.08 | 100.5 | 5.6 | 0.50 | 3.1 | 0.13 1.34 |
| 8 | 12.37 | 33.540 | 25.386 | 6.06 | 100.0 | 5.7 | 0.53 | 3.4 | 0.13 1.65 |
| 18 | 12.24 | 33.561 | 25.427 | 5.94 | 97.8 | 6.2 | 0.58 | 4.3 | 0.14 1.42 |
| 29 | 12.15 | 33.567 | 25.449 | 5.89 | 96.8 | 6.4 | 0.61 | 4.8 | 0.15 1.00 |
| 37 | 11.27 | 33.562 | 25.609 | 4.69 | 75.6 | 12.3 | 1.08 | 12.1 | 0.13 0.28 |
| 44 | 10.55 | 33.591 | 25.759 | 4.07 | 64.6 | 16.6 | 1.37 | 16.8 | 0.04 0.13 |
| 52 | 10.44 | 33.697 | 25.861 | 3.54 | 56.1 | 19.8 | 1.56 | 19.4 | 0.03 0.07 |
| | | | | | | | | | 0.17 0.33 0.00 0.01 0.00 0.04 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|-------------------------------|
| | | | | 5 m | | 1211 - 1737 PST | 1211 PST | 1735 PST | 201.0 mg C/m2 |
| 34 10.4 N | 119 30.8 W | 19/01/01 | 1809 UTC | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 CHL-A |
| m | DEG C | THETA | ml/l | PCT | um/l | um/l | um/l | um/l | ug/l |
| 1 | 13.90 | 33.389 | 24.964 | 5.75 | 97.9 | 5.6 | 0.55 | 1.9 | 0.16 2.27 |
| 3 | 13.89 | 33.390 | 24.967 | 5.75 | 97.9 | 5.5 | 0.55 | 1.9 | 0.16 2.14 |
| 6 | 13.88 | 33.389 | 24.968 | 5.77 | 98.2 | 5.4 | 0.56 | 1.9 | 0.16 2.03 |
| 10 | 13.88 | 33.405 | 24.980 | 5.74 | 97.7 | 5.2 | 0.53 | 1.8 | 0.16 1.44 |
| 13 | 13.88 | 33.421 | 24.993 | 5.73 | 97.5 | 4.9 | 0.51 | 1.7 | 0.16 1.26 |
| 19 | 13.98 | 33.498 | 25.032 | 5.83 | 99.5 | 3.5 | 0.37 | 0.9 | 0.11 0.87 |
| | | | | | | | | | 0.42 0.29 0.07 0.10 0.09 0.05 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 40, 14, 4.4, 1.7, 0.34 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|-----------|-----------|-----------|--------|-------|-----------------|----------|----------|----------|---------------------------|
| 32 55.2 N | 122 7.4 W | 18/01/01 | 1743 UTC | 15 m | | 1218 - 1749 PST | 1219 PST | 1747 PST | | 159.2 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE | (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|------------------------|------|------|
| m | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 2 | 13.70 | 33.332 | 24.961 | 6.02 | 102.0 | 4.0 | 0.35 | 0.3 | 0.02 | 0.67 | 0.22 | 81. A | 0.72 | 0.62 | 0.67 | 0.06 |
| 9 | 13.70 | 33.334 | 24.963 | 5.97 | 101.2 | 4.0 | 0.35 | 0.3 | 0.02 | 0.66 | 0.19 | 40. | 6.4 | 6.6 | 6.5 | 0.07 |
| 19 | 13.70 | 33.334 | 24.963 | 6.01 | 101.8 | 4.0 | 0.34 | 0.3 | 0.02 | 0.63 | 0.19 | 14. | 5.2 | 5.1 | 5.2 | 0.05 |
| 31 | 13.71 | 33.334 | 24.961 | 5.99 | 101.5 | 3.9 | 0.34 | 0.3 | 0.02 | 0.64 | 0.17 | 4.2 | 2.9 | 3.1 | 3.0 | 0.06 |
| 40 | 13.70 | 33.335 | 24.964 | 6.00 | 101.7 | 3.9 | 0.34 | 0.4 | 0.02 | 0.64 | 0.19 | 1.7 | 0.88 | 0.89 | 0.88 | 0.04 |
| 48 | 13.71 | 33.337 | 24.964 | 5.98 | 101.3 | 3.9 | 0.35 | 0.3 | 0.02 | 0.64 | 0.19 | | | | | |
| 56 | 12.37 | 33.399 | 25.277 | 5.37 | 88.5 | 6.7 | 0.72 | 6.3 | 0.05 | 0.22 | 0.18 | 0.32 | 0.08 | 0.06 | 0.07 | 0.04 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 83 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|-----------|-----------|-----------|--------|-------|-----------------|----------|----------|----------|---------------------------|
| 31 53.0 N | 124 9.6 W | 17/01/01 | 1959 UTC | 30 m | | 1252 - 1800 PST | 1227 PST | 1800 PST | | 141.4 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE | (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|------------------------|------|------|
| m | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 2 | 15.24 | 33.300 | 24.610 | 5.81 | 101.6 | 3.3 | 0.32 | 0.0 | 0.01 | 0.26 | 0.10 | 90. A | 0.47 | 0.43 | 0.45 | 0.03 |
| 18 | 15.23 | 33.299 | 24.612 | 5.79 | 101.2 | 3.3 | 0.31 | 0.0 | 0.01 | 0.25 | 0.09 | 40. | 2.6 | 2.6 | 2.6 | 0.04 |
| 28 | 15.22 | 33.298 | 24.614 | 5.79 | 101.2 | 3.2 | 0.31 | 0.0 | 0.01 | 0.26 | 0.09 | | | | | |
| 38 | 15.22 | 33.297 | 24.613 | 5.81 | 101.5 | 3.1 | 0.32 | 0.0 | 0.01 | 0.26 | 0.10 | 14. | 2.3 | 2.3 | 2.3 | 0.05 |
| 49 | 15.22 | 33.299 | 24.615 | 5.79 | 101.2 | 3.1 | 0.31 | 0.0 | 0.01 | 0.26 | 0.10 | | | | | |
| 60 | 15.20 | 33.293 | 24.615 | 5.79 | 101.1 | 3.1 | 0.31 | 0.1 | 0.01 | 0.26 | 0.10 | 4.6 | 1.4 | 1.4 | 1.4 | 0.04 |
| 70 | 15.16 | 33.284 | 24.618 | 5.79 | 101.0 | 3.1 | 0.32 | 0.1 | 0.01 | 0.27 | 0.11 | | | | | |
| 79 | 14.70 | 33.238 | 24.682 | 5.79 | 100.1 | 3.4 | 0.36 | 0.4 | 0.12 | 0.21 | 0.13 | 1.8 | 0.50 | 0.47 | 0.48 | 0.02 |
| 90 | 13.52 | 33.310 | 24.983 | 5.90 | 99.6 | 3.8 | 0.45 | 1.4 | 0.17 | 0.21 | 0.19 | | | | | |
| 99 | 12.66 | 33.320 | 25.161 | 5.60 | 92.8 | 4.9 | 0.61 | 4.0 | 0.03 | 0.16 | 0.17 | | | | | |
| 110 | 12.13 | 33.332 | 25.272 | 5.71 | 93.6 | 4.8 | 0.54 | 2.8 | 0.06 | 0.12 | 0.13 | 0.36 | 0.07 | 0.07 | 0.07 | 0.01 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|----------|-----------|-----------|-----------|--------|-------|-----------------|----------|----------|----------|---------------------------|
| 33 9.1 N | 120 0.6 W | 15/01/01 | 1838 UTC | 15 m | | 1208 - 1745 PST | 1209 PST | 1743 PST | | 226.4 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE | (mg C/m ³) | | |
|-------|-------|----------|--------|--------|------|------|------|------|------|-------|-------|-------|--------|------------------------|------|------|
| m | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 2 | 13.90 | 33.512 | 25.059 | 5.80 | 98.8 | 4.0 | 0.42 | 1.6 | 0.08 | 0.60 | 0.29 | 81. A | 4.7 | 6.0 | 5.3 | 0.07 |
| 9 | 13.90 | 33.513 | 25.060 | 5.81 | 99.0 | 3.9 | 0.41 | 1.6 | 0.08 | 0.59 | 0.31 | 40. | 9.1 | 9.4 | 9.3 | 0.06 |
| 19 | 13.89 | 33.512 | 25.061 | 5.77 | 98.3 | 3.8 | 0.41 | 1.5 | 0.08 | 0.60 | 0.31 | 14. | 6.1 | 6.2 | 6.2 | 0.06 |
| 32 | 13.90 | 33.513 | 25.060 | 5.79 | 98.6 | 3.7 | 0.41 | 1.5 | 0.08 | 0.59 | 0.34 | 3.8 | 3.0 | 3.4 | 3.2 | 0.06 |
| 40 | 13.88 | 33.511 | 25.063 | 5.79 | 98.6 | 3.8 | 0.42 | 1.6 | 0.08 | 0.58 | 0.27 | 1.7 | 0.96 | 1.0 | 1.0 | 0.06 |
| 48 | 13.82 | 33.512 | 25.077 | 5.74 | 97.6 | 4.0 | 0.44 | 1.9 | 0.08 | 0.51 | 0.30 | | | | | |
| 56 | 13.30 | 33.518 | 25.187 | 5.44 | 91.5 | 5.9 | 0.60 | 4.5 | 0.08 | 0.39 | 0.22 | 0.32 | 0.18 | 0.15 | 0.16 | 0.03 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 87 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------|----------|--------------------------|
| 32 19.6 N | 121 42.7 W | 16/01/01 | 1846 UTC | 18 m | | 1212 - 1755 PST | 1217 PST | 1756 PST | | 96.1 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE | (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|------------------------|------|------|
| m | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 3 | 15.15 | 33.488 | 24.775 | 5.80 | 101.3 | 3.3 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 77. A | 1.1 | 0.88 | 1.0 | 0.04 |
| 11 | 15.15 | 33.488 | 24.775 | 5.79 | 101.2 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 39. | 2.7 | 2.8 | 2.8 | 0.03 |
| 23 | 15.15 | 33.489 | 24.776 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.28 | 0.10 | 14. | 2.2 | 2.3 | 2.2 | 0.04 |
| 37 | 15.15 | 33.489 | 24.776 | 5.80 | 101.3 | 3.2 | 0.29 | 0.0 | 0.00 | 0.29 | 0.10 | 4.3 | 1.1 | 1.1 | 1.1 | 0.04 |
| 49 | 13.81 | 33.366 | 24.966 | 5.95 | 101.1 | 3.7 | 0.35 | 0.3 | 0.04 | 0.59 | 0.25 | 1.5 | 1.2 | 1.1 | 1.1 | 0.05 |
| 58 | 13.67 | 33.354 | 24.985 | 5.93 | 100.4 | 3.9 | 0.37 | 0.5 | 0.06 | 0.58 | 0.28 | | | | | |
| 67 | 13.69 | 33.364 | 24.989 | 5.93 | 100.5 | 3.8 | 0.37 | 0.5 | 0.06 | 0.43 | 0.22 | 0.33 | 0.23 | 0.16 | 0.19 | 0.03 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 40, 14, 4.4, 1.7, 0.34 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 28

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 33 29.2 N | 117 46.0 W | 14/01/01 | 1841 UTC | 8 m | | 1200 - 1735 PST | 1200 PST | 1735 PST | 101.9 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | UPTAKE (mg C/m ³) | |
|---------|------------|----------|-------------|-------------|---------|-----------|----------|----------|----------|------------|------------|-----------|------|------|-------------------------------|------|
| | | | | | | | | | | | | | | | MEAN | DARK |
| 2 | 15.04 | 33.449 | 24.769 | 5.84 | 101.8 | 3.4 | 0.36 | 0.1 | 0.02 | 0.40 | 0.19 | 68. A | 7.2 | 7.2 | 7.2 | 0.09 |
| 6 | 14.93 | 33.448 | 24.792 | 5.80 | 100.9 | 3.3 | 0.36 | 0.1 | 0.02 | 0.43 | 0.20 | 32. | 8.4 | 8.6 | 8.5 | 0.07 |
| 11 | 14.91 | 33.449 | 24.797 | 5.81 | 101.0 | 3.3 | 0.36 | 0.1 | 0.02 | 0.45 | 0.22 | 12. | 4.3 | 4.5 | 4.4 | 0.07 |
| 16 | 14.90 | 33.454 | 24.803 | 5.83 | 101.3 | 3.2 | 0.35 | 0.1 | 0.02 | 0.44 | 0.23 | 4.6 | 1.8 | 2.0 | 1.9 | 0.06 |
| 22 | 14.95 | 33.464 | 24.800 | 5.82 | 101.3 | 3.1 | 0.35 | 0.1 | 0.02 | 0.45 | 0.22 | 1.5 | 0.34 | 0.31 | 0.32 | 0.05 |
| 30 | 15.04 | 33.528 | 24.830 | 5.79 | 100.9 | 3.0 | 0.31 | 0.1 | 0.01 | 0.33 | 0.19 | 0.32 | 0.04 | 0.05 | 0.04 | 0.02 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 32 39.2 N | 119 28.7 W | 13/01/01 | 1839 UTC | 22 m | | 1207 - 1736 PST | 1207 PST | 1736 PST | 270.5 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | UPTAKE (mg C/m ³) | |
|---------|------------|----------|-------------|-------------|---------|-----------|----------|----------|----------|------------|------------|-----------|------|------|-------------------------------|------|
| | | | | | | | | | | | | | | | MEAN | DARK |
| 2 | 14.50 | 33.486 | 24.913 | 5.90 | 101.7 | 3.0 | 0.33 | 0.3 | 0.03 | | | 87. A | 4.3 | 3.9 | 4.1 | 0.04 |
| 14 | 14.43 | 33.485 | 24.927 | 5.86 | 100.9 | 3.0 | 0.32 | 0.3 | 0.03 | | | 38. | 7.1 | 7.1 | 7.1 | 0.07 |
| 21 | 14.42 | 33.485 | 24.930 | 5.87 | 101.0 | 2.8 | 0.32 | 0.3 | 0.03 | 0.54 | 0.19 | | | | | |
| 28 | 14.41 | 33.486 | 24.933 | 5.86 | 100.8 | 2.8 | 0.33 | 0.3 | 0.04 | 0.55 | 0.20 | 14. | 5.8 | 5.7 | 5.8 | 0.06 |
| 37 | 14.40 | 33.486 | 24.935 | 5.85 | 100.7 | 2.9 | 0.33 | 0.4 | 0.04 | 0.57 | 0.21 | | | | | |
| 45 | 13.70 | 33.446 | 25.050 | 5.68 | 96.3 | 4.3 | 0.47 | 2.3 | 0.10 | 0.44 | 0.27 | 4.3 | 2.5 | 2.7 | 2.6 | 0.04 |
| 52 | 12.57 | 33.403 | 25.242 | 5.42 | 89.7 | 6.6 | 0.67 | 5.2 | 0.07 | 0.44 | 0.36 | | | | | |
| 59 | 12.30 | 33.403 | 25.294 | 5.34 | 87.9 | 6.9 | 0.73 | 6.0 | 0.07 | 0.36 | 0.34 | 1.6 | 0.79 | 0.75 | 0.77 | 0.03 |
| 70 | 11.32 | 33.451 | 25.514 | 4.91 | 79.2 | 10.0 | 0.98 | 10.4 | 0.02 | 0.19 | 0.21 | | | | | |
| 83 | 10.69 | 33.522 | 25.682 | 4.49 | 71.5 | 13.5 | 1.20 | 14.0 | 0.02 | 0.10 | 0.12 | 0.31 | 0.04 | 0.06 | 0.05 | 0.01 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|--------------------------|
| 31 25.4 N | 121 59.6 W | 12/01/01 | 1745 UTC | 23 m | | 1214 - 1740 PST | 1214 PST | 1742 PST | 46.6 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | UPTAKE (mg C/m ³) | |
|---------|------------|----------|-------------|-------------|---------|-----------|----------|----------|----------|------------|------------|-----------|------|------|-------------------------------|------|
| | | | | | | | | | | | | | | | MEAN | DARK |
| 3 | 16.77 | 33.792 | 24.642 | 5.59 | 101.0 | 2.9 | 0.25 | 0.0 | 0.00 | 0.14 | 0.04 | 82. A | 0.18 | 0.27 | 0.23 | 0.04 |
| 14 | 16.77 | 33.790 | 24.641 | 5.61 | 101.4 | 2.9 | 0.24 | 0.0 | 0.00 | 0.13 | 0.04 | 39. | 1.3 | 1.4 | 1.4 | 0.03 |
| 15 | 16.77 | 33.792 | 24.643 | 5.760 | 104.1 | 2.9 | 0.27 | 0.0 | 0.00 | 0.14 | 0.04 | | | | | |
| 31 | 16.77 | 33.789 | 24.641 | 5.58 | 100.8 | 2.9 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 13. | 0.92 | 0.93 | 0.92 | 0.03 |
| 38 | 16.79 | 33.797 | 24.643 | 5.58 | 100.9 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | | | | | |
| 48 | 16.81 | 33.805 | 24.645 | 5.58 | 100.9 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 4.1 | 0.42 | 0.40 | 0.41 | 0.03 |
| 59 | 16.80 | 33.796 | 24.641 | 5.57 | 100.7 | 2.8 | 0.24 | 0.0 | 0.00 | 0.14 | 0.04 | 1.9 | 0.15 | 0.16 | 0.15 | 0.04 |
| 74 | 16.79 | 33.811 | 24.655 | 5.59 | 101.1 | 2.8 | 0.24 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 84 | 15.61 | 33.811 | 24.925 | 5.76 | 101.7 | 3.3 | 0.25 | 0.0 | 0.01 | 0.26 | 0.18 | 0.37 | 0.07 | 0.10 | 0.08 | 0.02 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 90 120

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|-----------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 30 24.9 N | 124 0.2 W | 11/01/01 | 1907 UTC | 34 m | | 1223 - 1755 PST | 1223 PST | 1755 PST | 140.1 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | UPTAKE (mg C/m ³) | |
|---------|------------|----------|-------------|-------------|---------|-----------|----------|----------|----------|------------|------------|-----------|------|------|-------------------------------|------|
| | | | | | | | | | | | | | | | MEAN | DARK |
| 2 | 16.18 | 33.522 | 24.571 | 5.68 | 101.3 | 2.9 | 0.29 | 0.1 | 0.00 | 0.15 | 0.04 | 91. A | 0.66 | 0.35 | 0.51 | 0.04 |
| 12 | 16.16 | 33.515 | 24.571 | 5.70 | 101.6 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 22 | 16.16 | 33.513 | 24.569 | 5.69 | 101.4 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.04 | 37. | 1.8 | 1.6 | 1.7 | 0.04 |
| 33 | 16.17 | 33.518 | 24.571 | 5.69 | 101.5 | 2.7 | 0.28 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 44 | 16.16 | 33.524 | 24.579 | 5.69 | 101.4 | 2.7 | 0.29 | 0.0 | 0.00 | 0.16 | 0.05 | 14. | 1.5 | 1.4 | 1.5 | 0.05 |
| 53 | 16.09 | 33.528 | 24.598 | 5.70 | 101.5 | 2.6 | 0.29 | 0.0 | 0.00 | 0.19 | 0.08 | | | | | |
| 63 | 15.26 | 33.444 | 24.719 | 5.82 | 101.9 | 2.9 | 0.32 | 0.0 | 0.01 | 0.31 | 0.14 | | | | | |
| 69 | 14.02 | 33.329 | 24.895 | 5.91 | 100.8 | 3.4 | 0.39 | 0.4 | 0.09 | 0.35 | 0.21 | 4.4 | 1.8 | 1.9 | 1.9 | 0.02 |
| 81 | 13.05 | 33.275 | 25.050 | 5.89 | 98.4 | 4.2 | 0.48 | 1.5 | 0.25 | 0.34 | 0.25 | | | | | |
| 90 | 12.14 | 33.265 | 25.218 | 5.81 | 95.2 | 4.8 | 0.53 | 2.4 | 0.10 | 0.27 | 0.25 | 1.7 | 0.66 | 0.66 | 0.66 | 0.02 |
| 102 | 10.93 | 33.357 | 25.511 | 5.24 | 83.7 | 8.6 | 0.90 | 9.0 | 0.01 | 0.13 | 0.15 | | | | | |
| 113 | 10.27 | 33.490 | 25.730 | 4.68 | 73.8 | 12.8 | 1.18 | 13.8 | 0.01 | 0.06 | 0.09 | | | | | |
| 126 | 9.96 | 33.542 | 25.823 | 4.42 | 69.2 | 15.8 | 1.32 | 16.1 | 0.01 | 0.04 | 0.06 | 0.34 | 0.03 | 0.04 | 0.03 | 0.01 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 40, 14, 4.4, 1.7, 0.34 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| | | 07/01/01 | 1929 UTC | 17 m | | 1203 - 1730 PST | 1155 PST | 1728 PST | 458.4 mg C/m ² |
| 32 57.3 N | 117 18.0 W | | | | | | | | |
| 2 | 15.03 | 33.585 | 24.875 | 5.97 | 104.1 | 2.9 | 0.30 | 0.1 | 0.00 |
| 6 | 14.88 | 33.580 | 24.904 | 6.01 | 104.5 | 3.0 | 0.30 | 0.0 | 0.01 |
| 10 | 14.64 | 33.577 | 24.954 | 6.04 | 104.5 | 3.3 | 0.33 | 0.1 | 0.02 |
| 22 | 14.45 | 33.578 | 24.995 | 6.05 | 104.3 | 3.1 | 0.32 | 0.1 | 0.01 |
| 28 | 14.41 | 33.577 | 25.003 | 6.01 | 103.5 | 3.1 | 0.33 | 0.1 | 0.02 |
| 35 | 14.36 | 33.579 | 25.015 | 5.99 | 103.0 | 3.1 | 0.36 | 0.2 | 0.03 |
| 45 | 14.25 | 33.579 | 25.039 | 5.86 | 100.6 | 3.3 | 0.43 | 0.4 | 0.05 |
| | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 40

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| | | 08/01/01 | 1736 UTC | 29 m | | 1201 - 1740 PST | 1200 PST | 1739 PST | 140.0 mg C/m ² |
| 32 30.6 N | 118 12.6 W | | | | | | | | |
| 2 | 15.71 | 33.586 | 24.726 | 5.75 | 101.7 | 2.4 | 0.29 | 0.0 | 0.00 |
| 10 | 15.71 | 33.585 | 24.726 | 5.77 | 102.0 | 2.4 | 0.29 | 0.0 | 0.19 |
| 19 | 15.71 | 33.587 | 24.728 | 5.76 | 101.8 | 2.3 | 0.29 | 0.0 | 0.00 |
| 28 | 15.52 | 33.571 | 24.758 | 5.80 | 102.1 | 2.4 | 0.29 | 0.0 | 0.00 |
| 37 | 14.83 | 33.515 | 24.866 | 5.89 | 102.2 | 2.6 | 0.32 | 0.0 | 0.00 |
| 48 | 13.48 | 33.441 | 25.091 | 5.69 | 96.0 | 3.8 | 0.47 | 1.7 | 0.08 |
| 58 | 12.17 | 33.435 | 25.344 | 5.28 | 86.7 | 6.7 | 0.74 | 6.3 | 0.03 |
| 68 | 11.54 | 33.484 | 25.499 | 4.83 | 78.3 | 9.8 | 0.98 | 10.3 | 0.02 |
| 77 | 11.22 | 33.562 | 25.619 | 4.39 | 70.7 | 12.5 | 1.18 | 13.5 | 0.02 |
| 93 | 10.78 | 33.636 | 25.755 | 3.98 | 63.5 | 15.8 | 1.37 | 16.5 | 0.01 |
| 107 | 10.27 | 33.714 | 25.904 | 3.64 | 57.5 | 19.8 | 1.55 | 19.3 | 0.01 |
| | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|--------------------------|
| | | 09/01/01 | 1800 UTC | 14 m | | 1206 - 1741 PST | 1205 PST | 1741 PST | 85.9 mg C/m ² |
| 31 50.8 N | 119 34.8 W | | | | | | | | |
| 3 | 14.99 | 33.515 | 24.830 | 5.83 | 101.5 | 3.0 | 0.31 | 0.1 | 0.01 |
| 9 | 14.98 | 33.514 | 24.832 | 5.84 | 101.7 | 2.9 | 0.31 | 0.1 | 0.01 |
| 19 | 14.98 | 33.514 | 24.832 | 5.83 | 101.5 | 2.9 | 0.31 | 0.1 | 0.01 |
| 30 | 14.97 | 33.513 | 24.834 | 5.85 | 101.8 | 2.8 | 0.31 | 0.1 | 0.01 |
| 39 | 14.96 | 33.513 | 24.836 | 5.84 | 101.6 | 2.8 | 0.32 | 0.1 | 0.01 |
| 46 | 14.92 | 33.510 | 24.843 | 5.83 | 101.4 | 2.7 | 0.32 | 0.1 | 0.02 |
| 52 | 14.87 | 33.508 | 24.852 | 5.84 | 101.5 | 2.7 | 0.32 | 0.1 | 0.03 |
| | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0101

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|--------------------------|
| | | 10/01/01 | 1905 UTC | 33 m | | 1216 - 1744 PST | 1217 PST | 1745 PST | 72.6 mg C/m ² |
| 30 30.9 N | 122 15.9 W | | | | | | | | |
| 2 | 16.99 | 33.774 | 24.577 | 5.57 | 101.1 | 2.4 | 0.25 | 0.0 | 0.00 |
| 10 | 16.99 | 33.773 | 24.576 | 5.57 | 101.1 | 2.3 | 0.25 | 0.0 | 0.12 |
| 20 | 16.99 | 33.773 | 24.577 | 5.57 | 101.1 | 2.3 | 0.25 | 0.0 | 0.03 |
| 31 | 16.98 | 33.772 | 24.579 | 5.58 | 101.3 | 2.2 | 0.25 | 0.0 | 0.00 |
| 42 | 16.98 | 33.771 | 24.578 | 5.57 | 101.1 | 2.1 | 0.25 | 0.0 | 0.13 |
| 54 | 16.98 | 33.772 | 24.580 | 5.57 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 |
| 67 | 16.97 | 33.769 | 24.580 | 5.59 | 101.4 | 2.0 | 0.25 | 0.0 | 0.13 |
| 77 | 15.66 | 33.539 | 24.704 | 5.73 | 101.1 | 2.2 | 0.30 | 0.0 | 0.00 |
| 87 | 15.20 | 33.511 | 24.784 | 5.76 | 100.7 | 2.3 | 0.33 | 0.0 | 0.03 |
| 95 | 14.73 | 33.553 | 24.919 | 5.73 | 99.3 | 2.6 | 0.35 | 0.2 | 0.12 |
| 103 | 14.10 | 33.511 | 25.020 | 5.70 | 97.5 | 2.9 | 0.39 | 0.6 | 0.22 |
| 112 | 14.16 | 33.611 | 25.084 | 5.50 | 94.2 | 2.9 | 0.42 | 1.2 | 0.11 |
| 122 | 13.65 | 33.634 | 25.208 | 5.34 | 90.5 | 3.6 | 0.51 | 2.7 | 0.03 |
| | | | | | | | | | |

A) INCUBATION LIGHT INTENSITIES WERE 96, 40, 14, 4.4, 1.7, 0.34 PERCENT RESPECTIVELY.

CalCOFI Cruise 0101

MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505mm

| Line | Sta. | Latitude N | Longitude W | Date Mo/Day | Time (PST) | | Water Volume Strained (m ³) | Max. Tow Depth (m) | Volume per 1000 m ³ Strained | |
|------|------|------------|-------------|----------------|------------|------|--|-----------------------|--|--------------------------|
| | | | | | Start | End | | | Total (cm ³) | Small (cm ³) |
| 77 | 49 | 35 05.4 | 120 47.0 | 01/22 | 2024 | 2030 | 123 | 57 | 146 | 146 |
| 77 | 51 | 35 00.8 | 120 55.0 | 01/22 | 1809 | 1831 | 429 | 214 | 187 | 168 |
| 77 | 55 | 34 53.0 | 121 12.2 | 01/22 | 1423 | 1445 | 412 | 211 | 49 | 49 |
| 77 | 60 | 34 43.3 | 121 33.1 | 01/22 | 0846 | 0908 | 440 | 213 | 41 | 41 |
| 77 | 70 | 34 23.4 | 122 14.6 | 01/22 | 0349 | 0411 | 439 | 215 | 303 | 219 |
| 77 | 80 | 34 02.8 | 122 55.9 | 01/21 | 2153 | 2215 | 444 | 220 | 74 | 74 |
| 77 | 90 | 33 44.2 | 123 37.9 | 01/21 | 1615 | 1636 | 442 | 216 | 32 | 32 |
| 77 | 100 | 33 23.2 | 124 18.7 | 01/21 | 0838 | 0859 | 454 | 212 | 29 | 29 |
| 80 | 51 | 34 27.1 | 120 30.8 | 01/19 | 2142 | 2147 | 117 | 46 | 119 | 119 |
| 80 | 55 | 34 18.9 | 120 48.8 | 01/20 | 0056 | 0118 | 440 | 213 | 73 | 73 |
| 80 | 60 | 34 09.7 | 121 08.9 | 01/20 | 0441 | 0502 | 431 | 214 | 90 | 90 |
| 80 | 70 | 33 49.5 | 121 51.7 | 01/20 | 1114 | 1136 | 460 | 201 | 219 | 219 |
| 80 | 80 | 33 28.6 | 122 32.7 | 01/20 | 1653 | 1715 | 443 | 212 | 38 | 38 |
| 80 | 90 | 33 09.2 | 123 13.4 | 01/20 | 2208 | 2229 | 445 | 211 | 85 | 85 |
| 80 | 100 | 32 49.8 | 123 54.4 | 01/21 | 0352 | 0414 | 421 | 214 | 64 | 64 |
| 82 | 47 | 34 16.1 | 120 01.9 | 01/19 | 1744 | 1805 | 433 | 211 | 76 | 76 |
| 83 | 40.6 | 34 13.4 | 119 25.2 | 01/19 | 1249 | 1252 | 59 | 20 | 85 | 85 |
| 83 | 42 | 34 10.9 | 119 30.7 | 01/19 | 1105 | 1114 | 200 | 77 | 20 | 20 |
| 83 | 51 | 33 52.7 | 120 08.3 | 01/19 | 0456 | 0505 | 181 | 81 | 83 | 83 |
| 83 | 55 | 33 45.2 | 120 24.7 | 01/19 | 0158 | 0220 | 434 | 213 | 122 | 122 |
| 83 | 60 | 33 35.4 | 120 45.1 | 01/18 | 2158 | 2220 | 444 | 209 | 106 | 106 |
| 83 | 70 | 33 14.8 | 121 26.2 | 01/18 | 1600 | 1621 | 409 | 220 | 34 | 34 |
| 83 | 80 | 32 55.1 | 122 07.7 | 01/18 | 0828 | 0850 | 470 | 200 | 30 | 30 |
| 83 | 90 | 32 35.2 | 122 48.5 | 01/18 | 0052 | 0114 | 430 | 214 | 100 | 100 |
| 83 | 100 | 32 14.6 | 123 28.5 | 01/17 | 1857 | 1919 | 429 | 214 | 28 | 28 |
| 83 | 110 | 31 53.4 | 124 09.9 | 01/17 | 1259 | 1321 | 432 | 213 | 25 | 25 |
| 87 | 33 | 33 52.8 | 118 29.4 | 01/14 | 1633 | 1638 | 109 | 50 | 37 | 37 |
| 87 | 35 | 33 49.6 | 118 37.7 | 01/14 | 1914 | 1936 | 418 | 212 | 60 | 60 |
| 87 | 40 | 33 39.2 | 118 58.5 | 01/14 | 2320 | 2342 | 395 | 219 | 78 | 78 |
| 87 | 45 | 33 30.3 | 119 19.5 | 01/15 | 0323 | 0344 | 428 | 216 | 58 | 58 |
| 87 | 50 | 33 19.0 | 119 39.9 | 01/15 | 0740 | 0746 | 122 | 44 | 82 | 82 |
| 87 | 55 | 33 09.2 | 120 01.7 | 01/15 | 1159 | 1220 | 460 | 211 | 28 | 28 |
| 87 | 60 | 32 59.9 | 120 21.7 | 01/15 | 1616 | 1638 | 456 | 218 | 24 | 24 |
| 87 | 80 | 32 20.2 | 121 42.8 | 01/16 | 1200 | 1222 | 473 | 210 | 17 | 17 |
| 87 | 90 | 31 59.0 | 122 23.7 | 01/16 | 1835 | 1857 | 434 | 214 | 21 | 21 |
| 87 | 100 | 31 39.8 | 123 04.6 | 01/17 | 0047 | 0109 | 484 | 210 | 41 | 41 |
| 87 | 110 | 31 20.0 | 123 44.3 | 01/17 | 0636 | 0658 | 431 | 214 | 28 | 28 |
| 90 | 28 | 33 29.2 | 117 46.4 | 01/14 | 0642 | 0648 | 123 | 56 | 49 | 49 |
| 90 | 30 | 33 25.4 | 117 54.8 | 01/14 | 0456 | 0517 | 406 | 213 | 59 | 59 |
| 90 | 35 | 33 15.3 | 118 15.2 | 01/14 | 0051 | 0112 | 382 | 212 | 191 | 191 |
| 90 | 37 | 33 10.7 | 118 22.9 | 01/13 | 2218 | 2240 | 424 | 208 | 113 | 113 |
| 90 | 45 | 32 55.8 | 118 56.0 | 01/13 | 1718 | 1740 | 424 | 212 | 59 | 59 |
| 90 | 53 | 32 39.6 | 119 28.8 | 01/13 | 1158 | 1219 | 428 | 213 | 37 | 37 |
| 90 | 60 | 32 25.9 | 119 57.6 | 01/13 | 0650 | 0712 | 447 | 217 | 49 | 49 |
| 90 | 70 | 32 04.2 | 120 38.6 | 01/13 | 0011 | 0032 | 434 | 217 | 35 | 35 |
| 90 | 80 | 31 45.3 | 121 18.3 | 01/12 | 1737 | 1759 | 458 | 216 | 15 | 15 |
| 90 | 90 | 31 25.2 | 121 59.6 | 01/12 | 0827 | 0849 | 436 | 204 | 18 | 18 |
| 90 | 100 | 31 05.3 | 122 39.5 | 01/12 | 1110 | 0132 | 483 | 212 | 27 | 27 |
| 90 | 110 | 30 45.1 | 123 19.9 | 01/11 | 1849 | 1911 | 466 | 218 | 28 | 28 |
| 90 | 120 | 30 24.4 | 124 00.6 | 01/11 | 1221 | 1243 | 474 | 221 | 21 | 21 |
| 93 | 26.7 | 32 57.1 | 117 18.8 | 01/07 | 1220 | 1234 | 276 | 131 | 36 | 36 |
| 93 | 28 | 32 54.5 | 117 24.5 | 01/07 | 1448 | 1510 | 438 | 217 | 16 | 16 |
| 93 | 30 | 32 51.1 | 117 32.6 | 01/08 | 0024 | 0045 | 429 | 214 | 35 | 35 |
| 93 | 35 | 32 41.4 | 117 51.8 | 01/08 | 0426 | 0448 | 431 | 214 | 58 | 58 |
| 93 | 40 | 32 30.9 | 118 12.4 | 01/08 | 0828 | 0850 | 428 | 218 | 35 | 35 |
| 93 | 45 | 32 20.7 | 118 33.6 | 01/08 | 1430 | 1451 | 428 | 214 | 51 | 51 |
| 93 | 50 | 32 08.8 | 118 53.7 | 01/08 | 1850 | 1912 | 572 | 165 | 61 | 61 |
| 93 | 70 | 31 29.7 | 120 14.8 | 01/09 | 1729 | 1751 | 488 | 217 | 25 | 25 |
| 93 | 80 | 31 11.1 | 120 55.6 | 01/09 | 2337 | 2359 | 447 | 219 | 29 | 29 |
| 93 | 90 | 30 50.6 | 121 35.1 | 01/10 | 0543 | 0604 | 444 | 212 | 32 | 32 |
| 93 | 100 | 30 30.7 | 122 16.0 | 01/10 | 1221 | 1243 | 446 | 210 | 11 | 11 |
| 93 | 110 | 30 10.3 | 122 53.9 | 01/10 | 2109 | 2131 | 481 | 209 | 21 | 21 |
| 93 | 120 | 29 50.6 | 123 34.7 | 01/11 | 0503 | 0525 | 445 | 221 | 25 | 25 |

FIGURES

Cruise 0104

1. CalCOFI Cruise 0104 track and station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500m). In areas shallower than 500 m, the dynamic heights were extrapolated on the basis of the offshore deeper steric height as described in Reid and Mantyla (1976).
3. Horizontal distributions at 10 meters: A) chlorophyll-*a*; B) potential density; C) temperature; and D) salinity.
4. Horizontal distributions at 200 meters: A) dynamic height anomaly (200 over 500 m); B) potential density; C) temperature; and D) salinity.
5. Sections along CalCOFI line 90 (vertical exaggeration, 1000): A) potential density; B) temperature; C) salinity; D) silicate; E) nitrate; F) phosphate; G) chlorophyll-*a*; H) oxygen saturation; I) oxygen; J) nitrite; and K) phaeopigments.

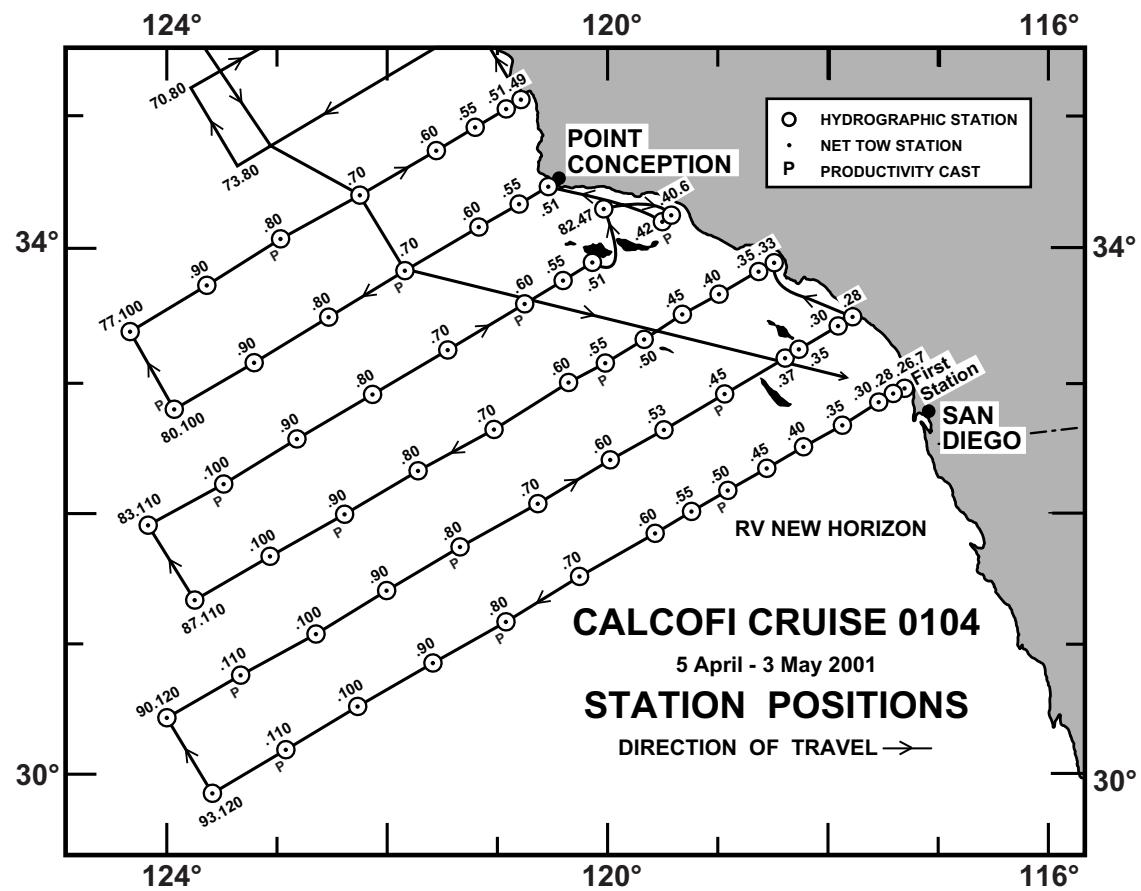


FIGURE 1

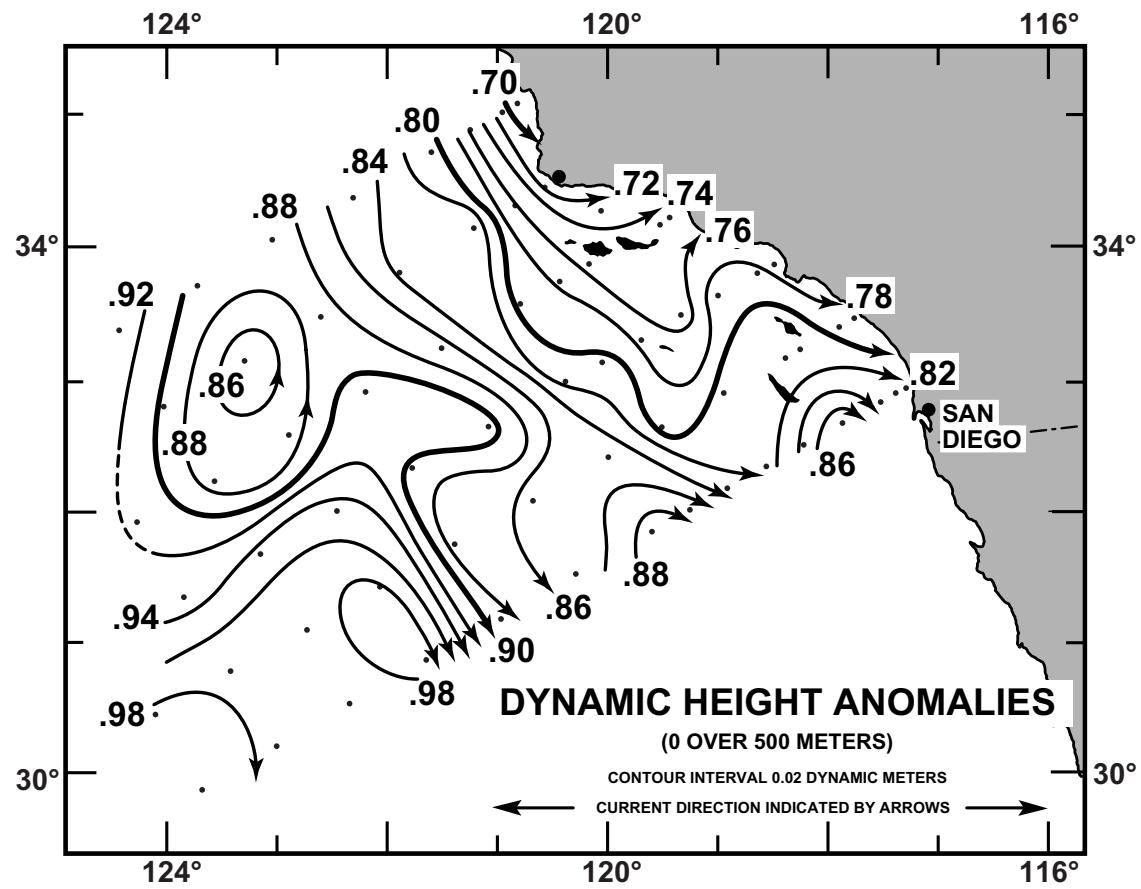


FIGURE 2

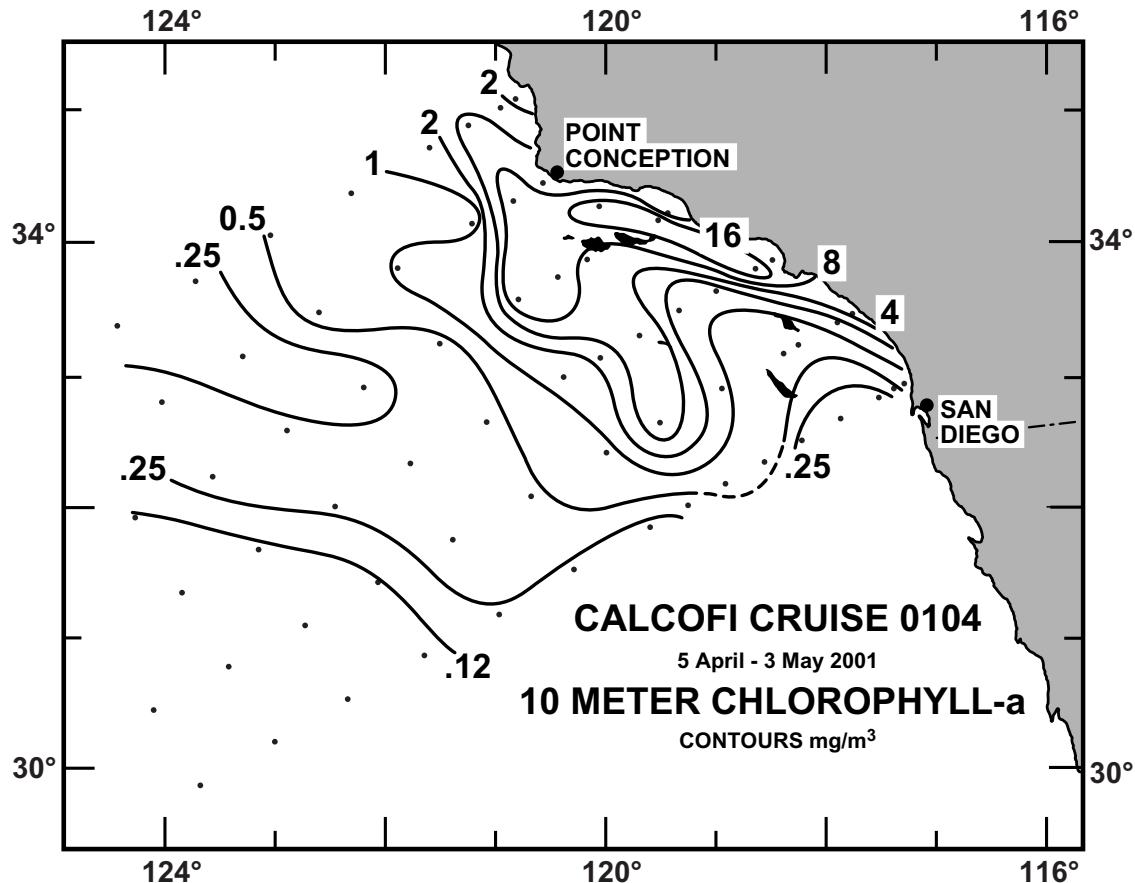


FIGURE 3A

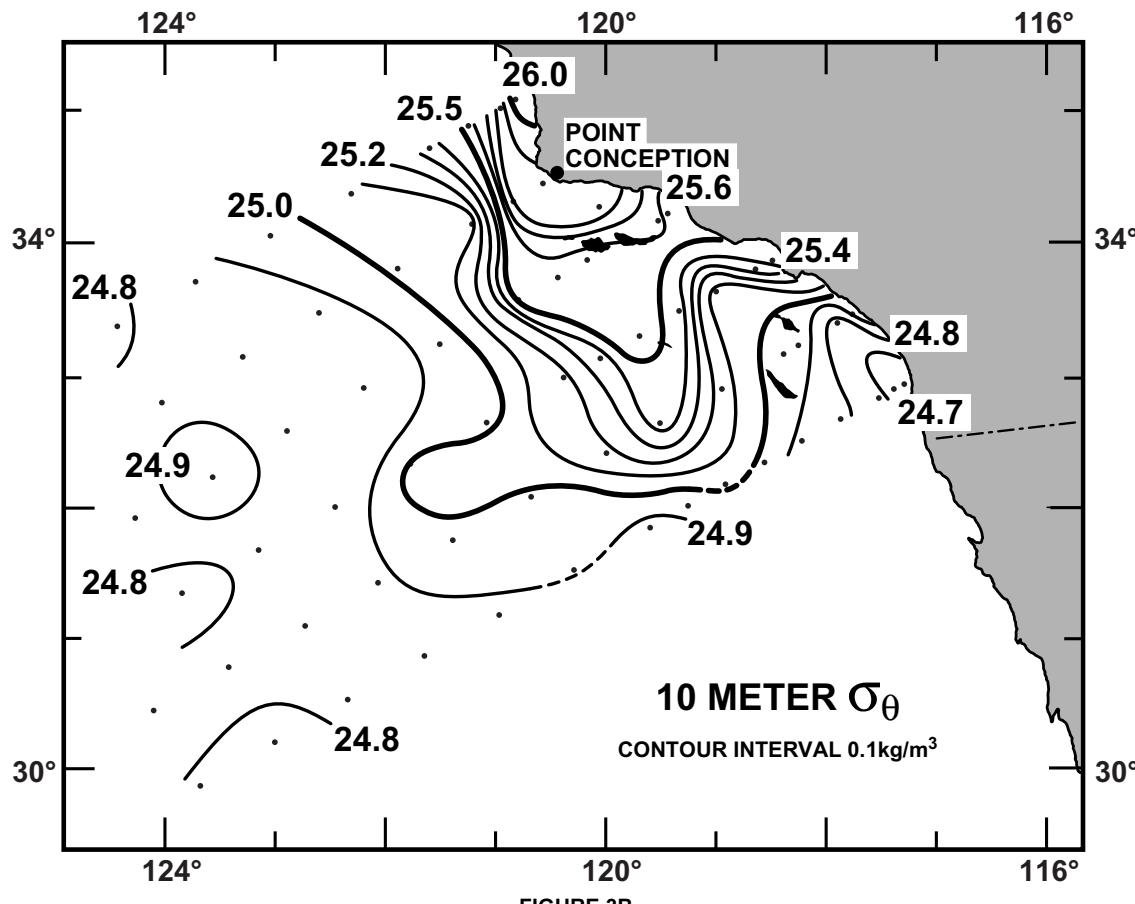


FIGURE 3B

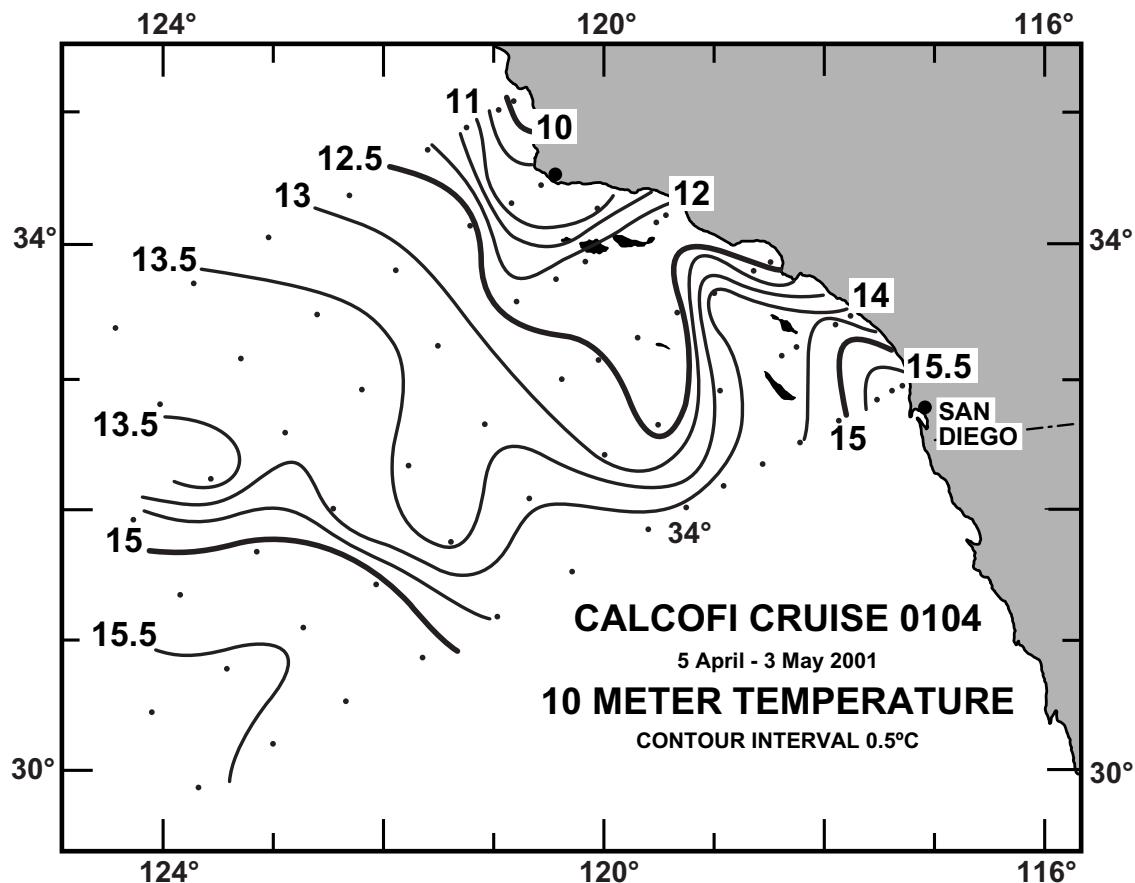


FIGURE 3C

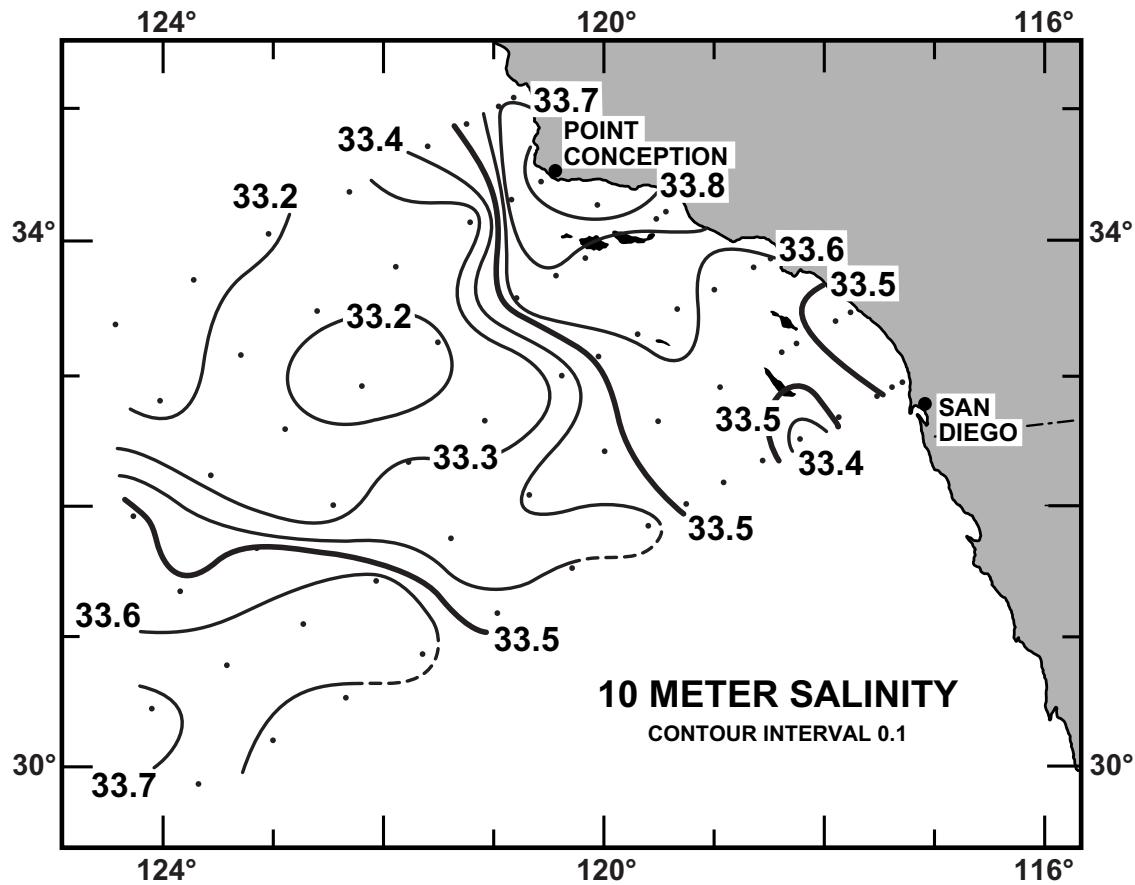


FIGURE 3D

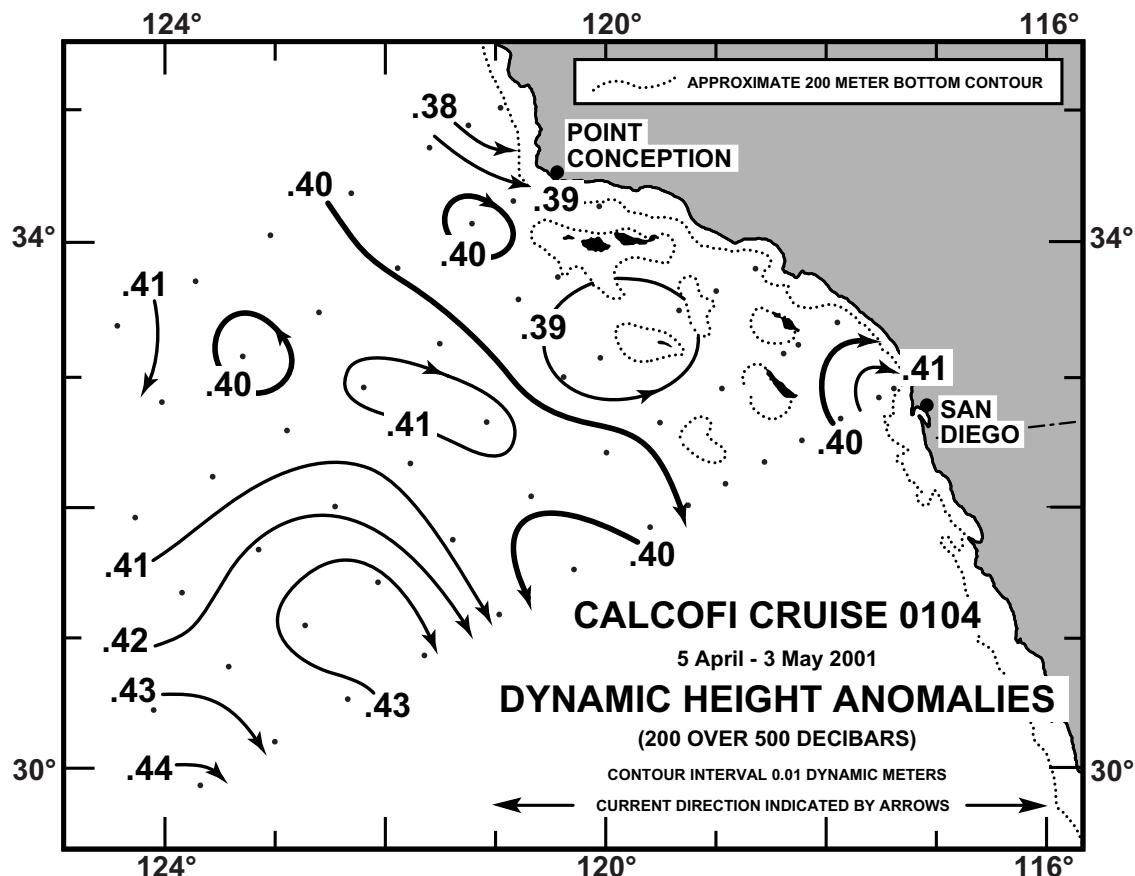


FIGURE 4A

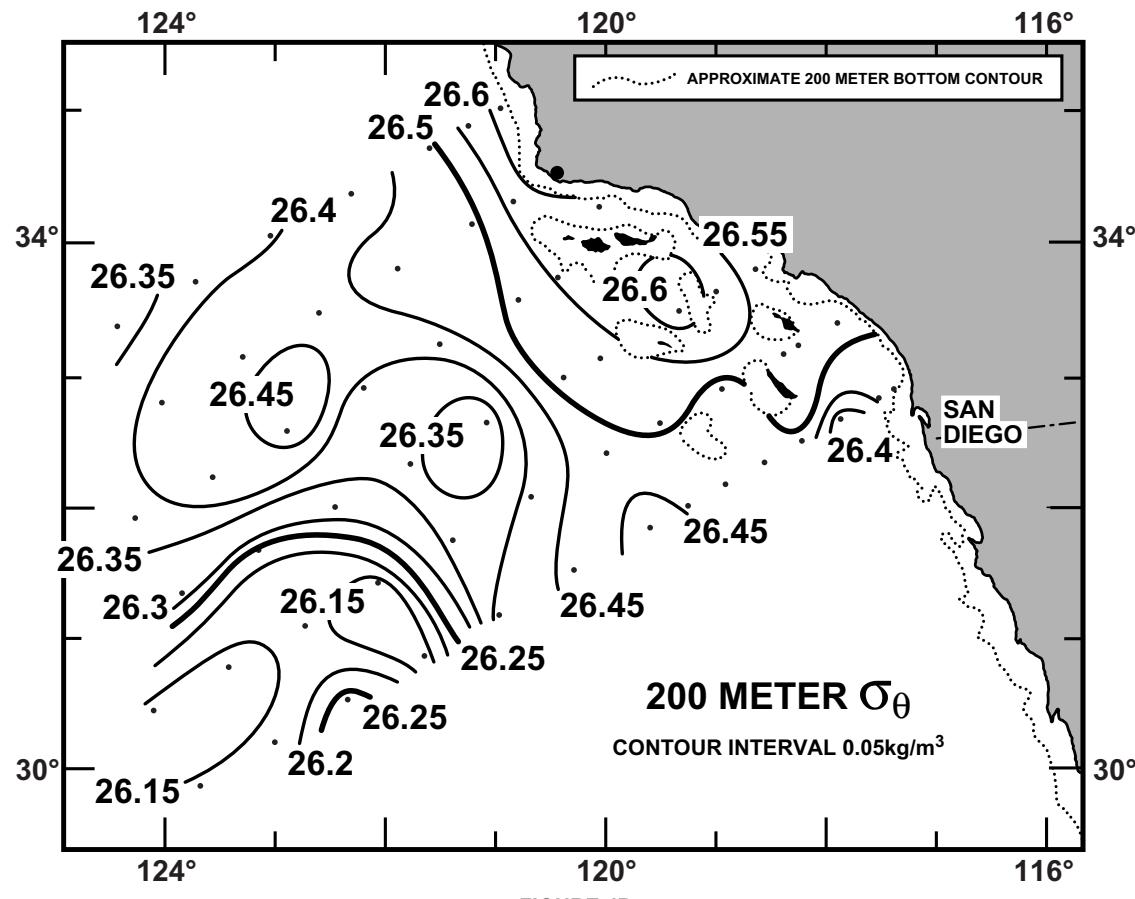


FIGURE 4B

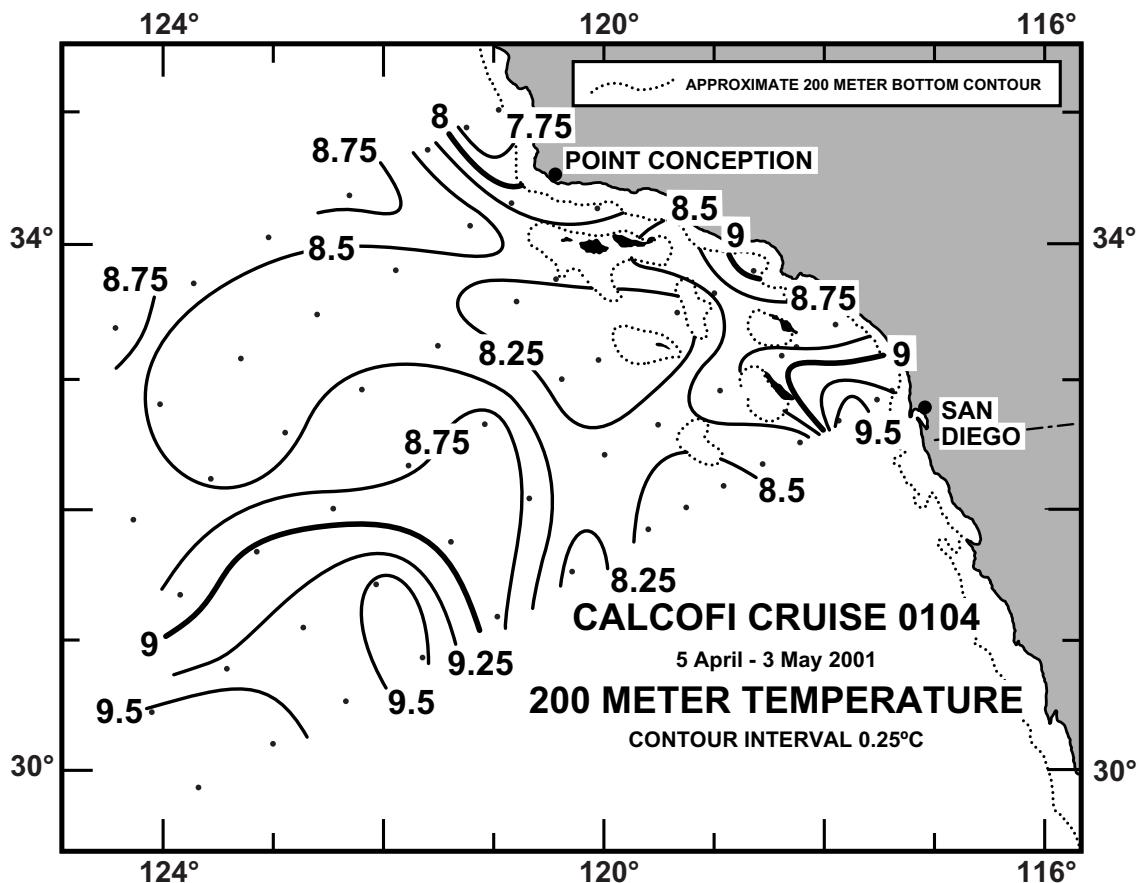


FIGURE 4C

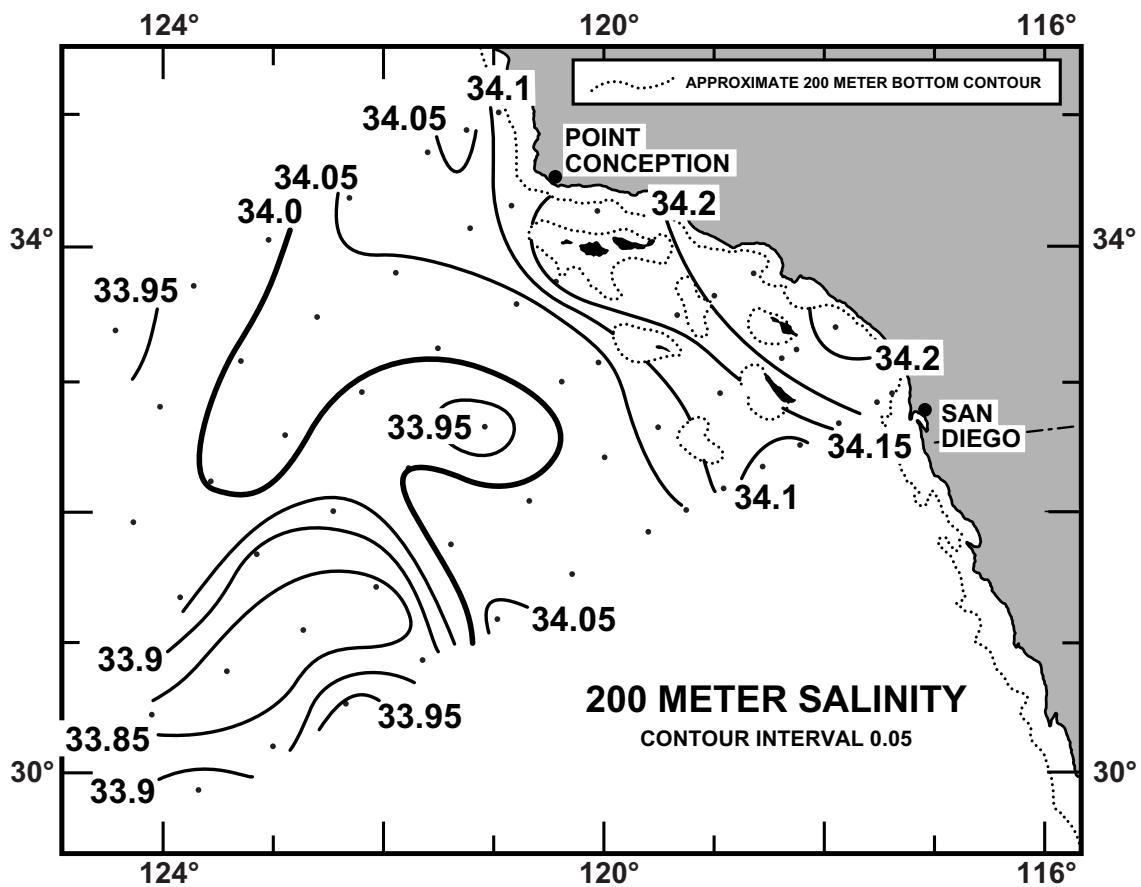


FIGURE 4D

CALCOFI CRUISE 0104

9 - 12 APRIL 2001

POTENTIAL DENSITY (σ_0) ALONG CALCOFI LINE 90

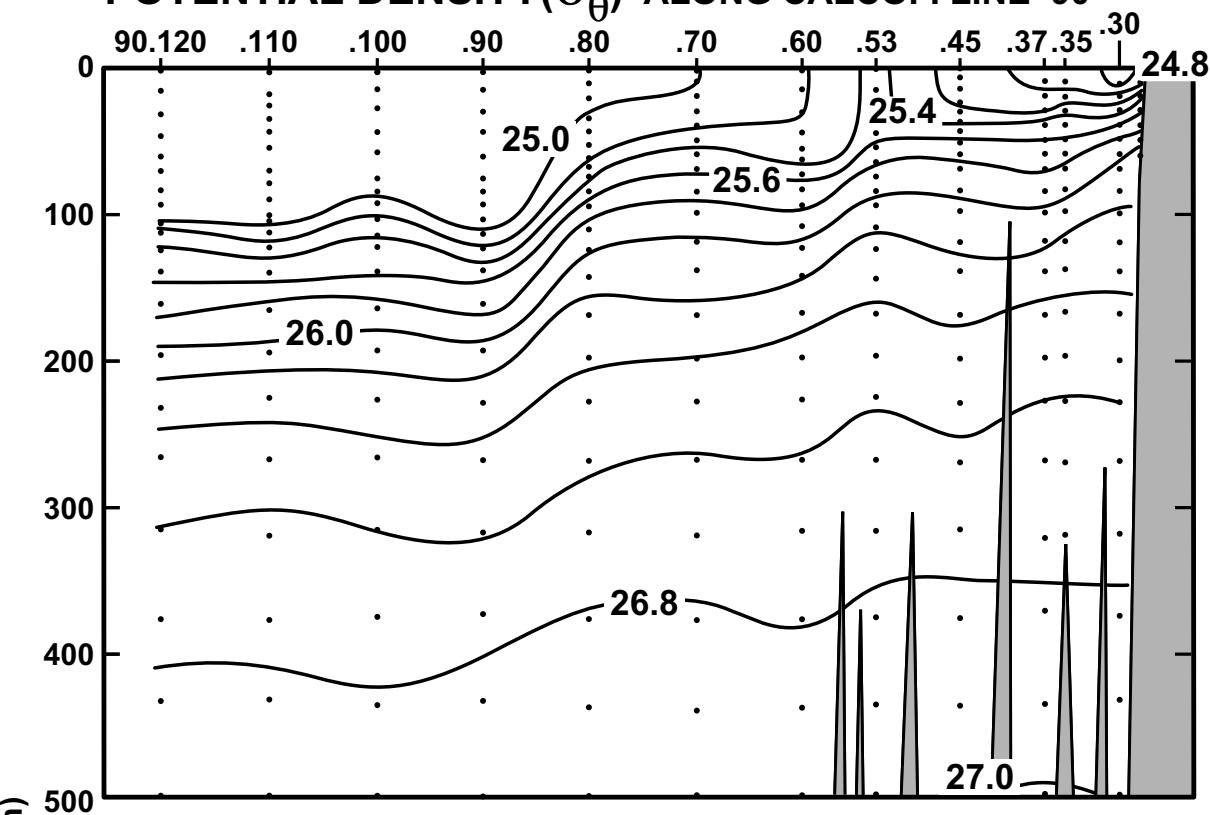


FIGURE 5A

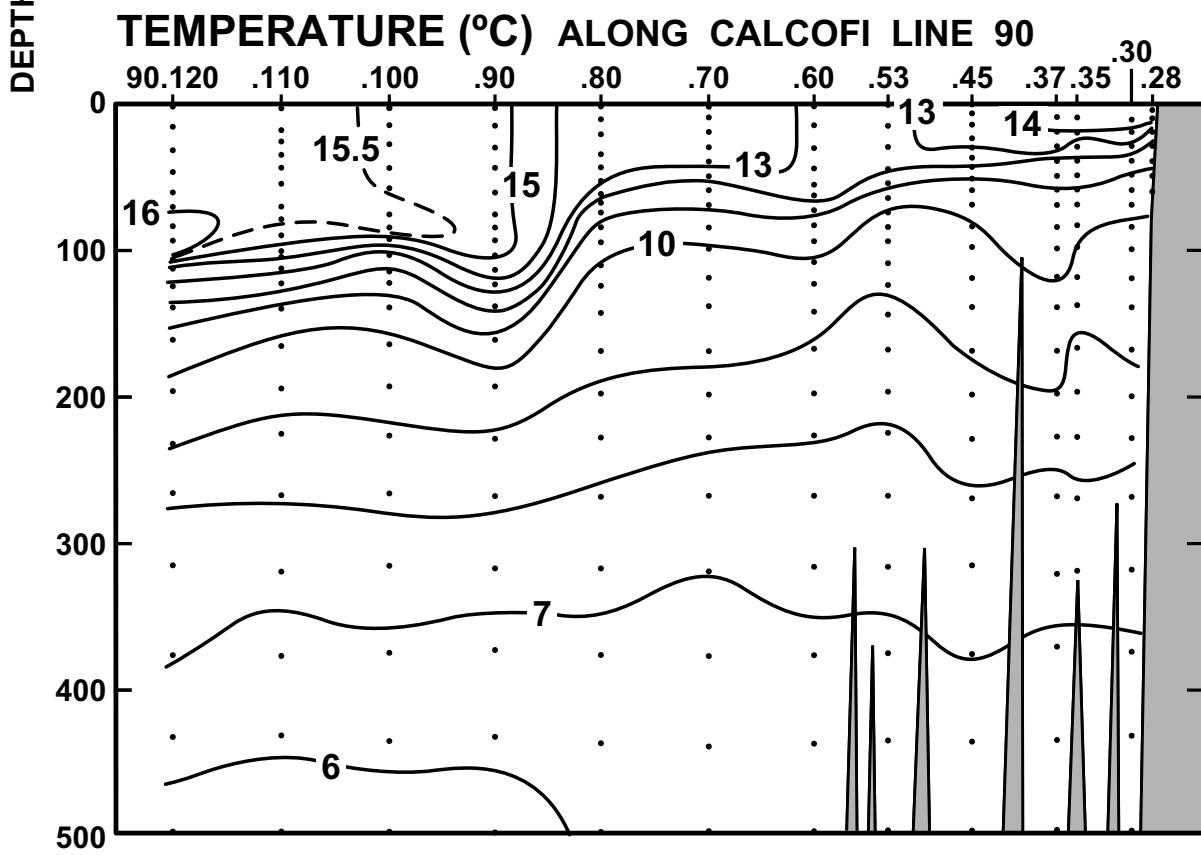


FIGURE 5B

CALCOFI CRUISE 0104

9 - 12 APRIL 2001

SALINITY ALONG CALCOFI LINE 90

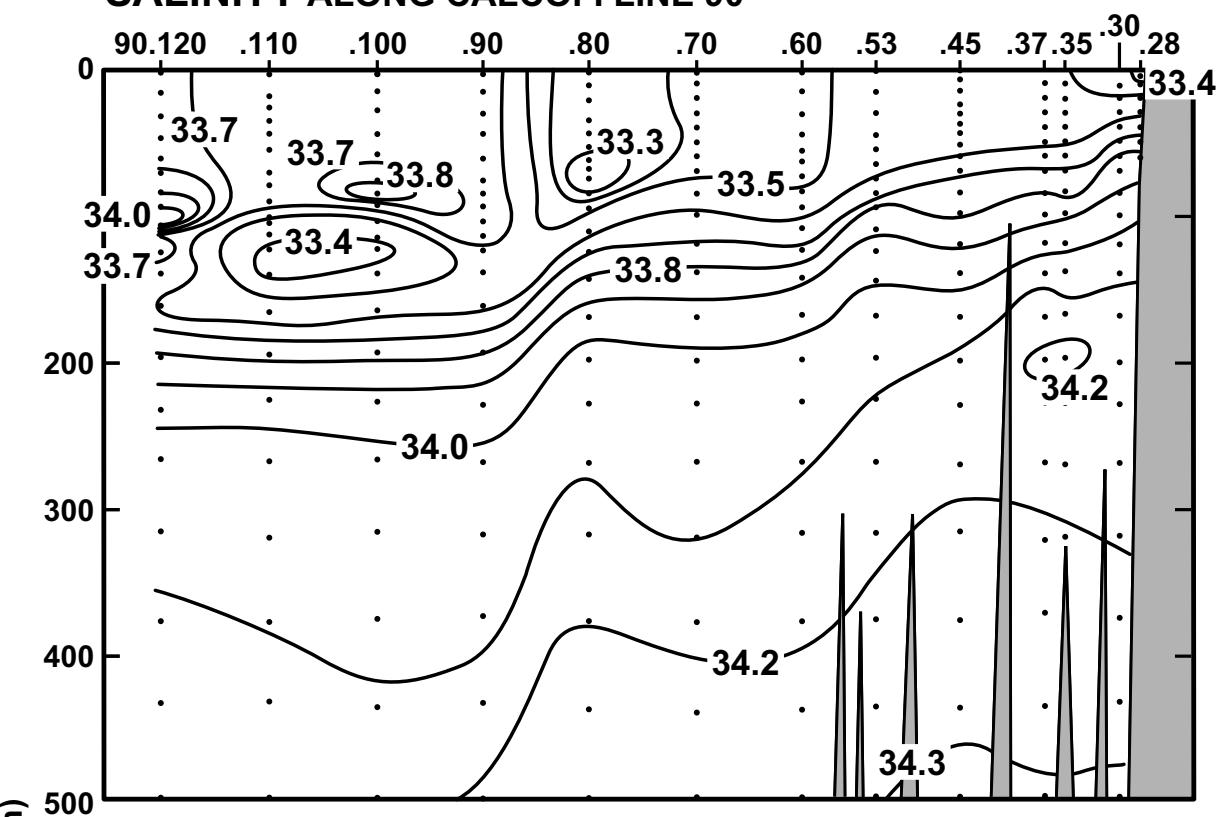


FIGURE 5C

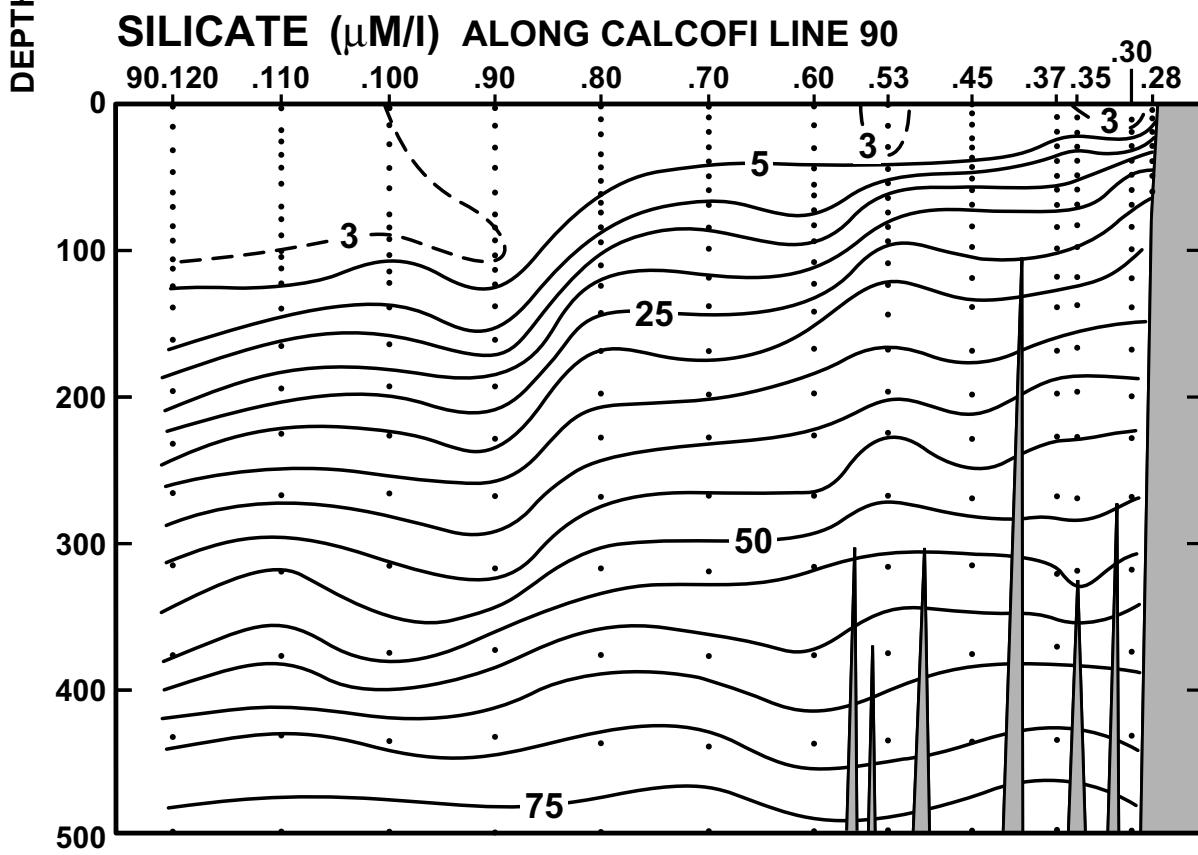


FIGURE 5D

CALCOFI CRUISE 0104

9 - 12 APRIL 2001

NITRATE ($\mu\text{M/l}$) ALONG CALCOFI LINE 90

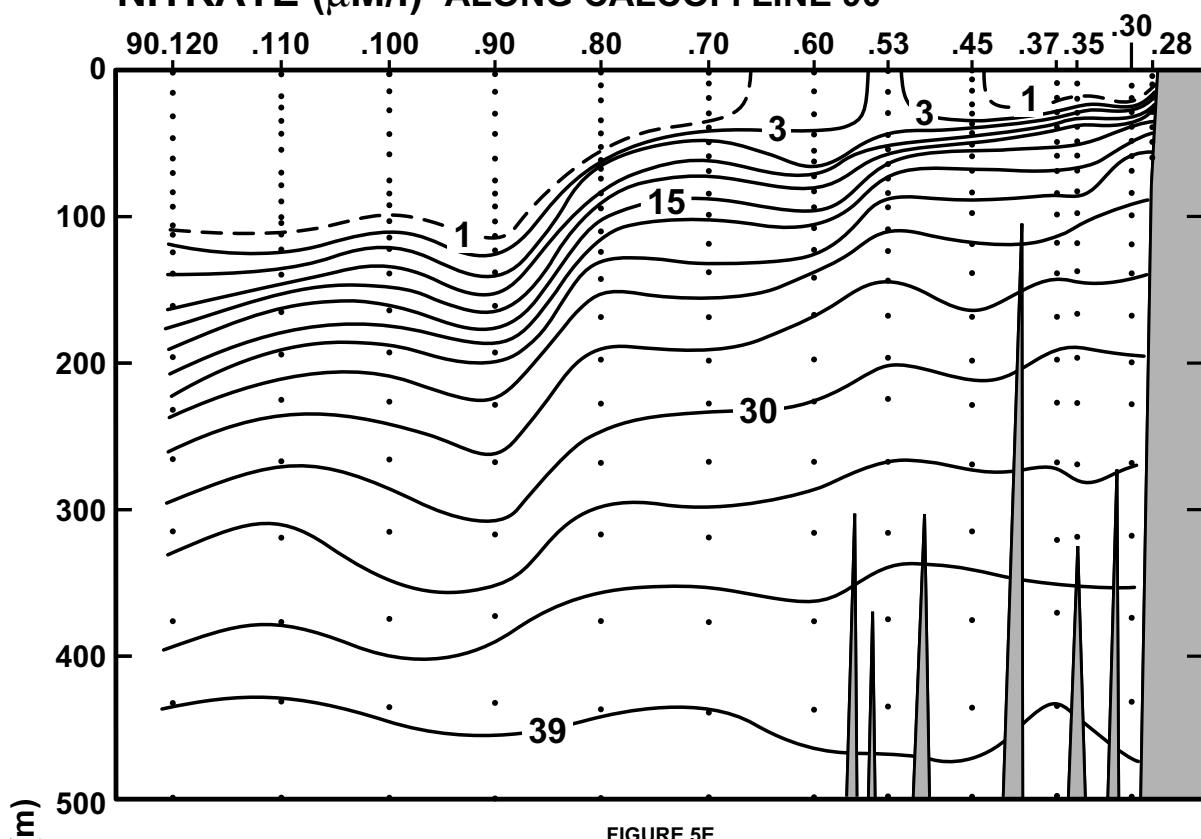


FIGURE 5E

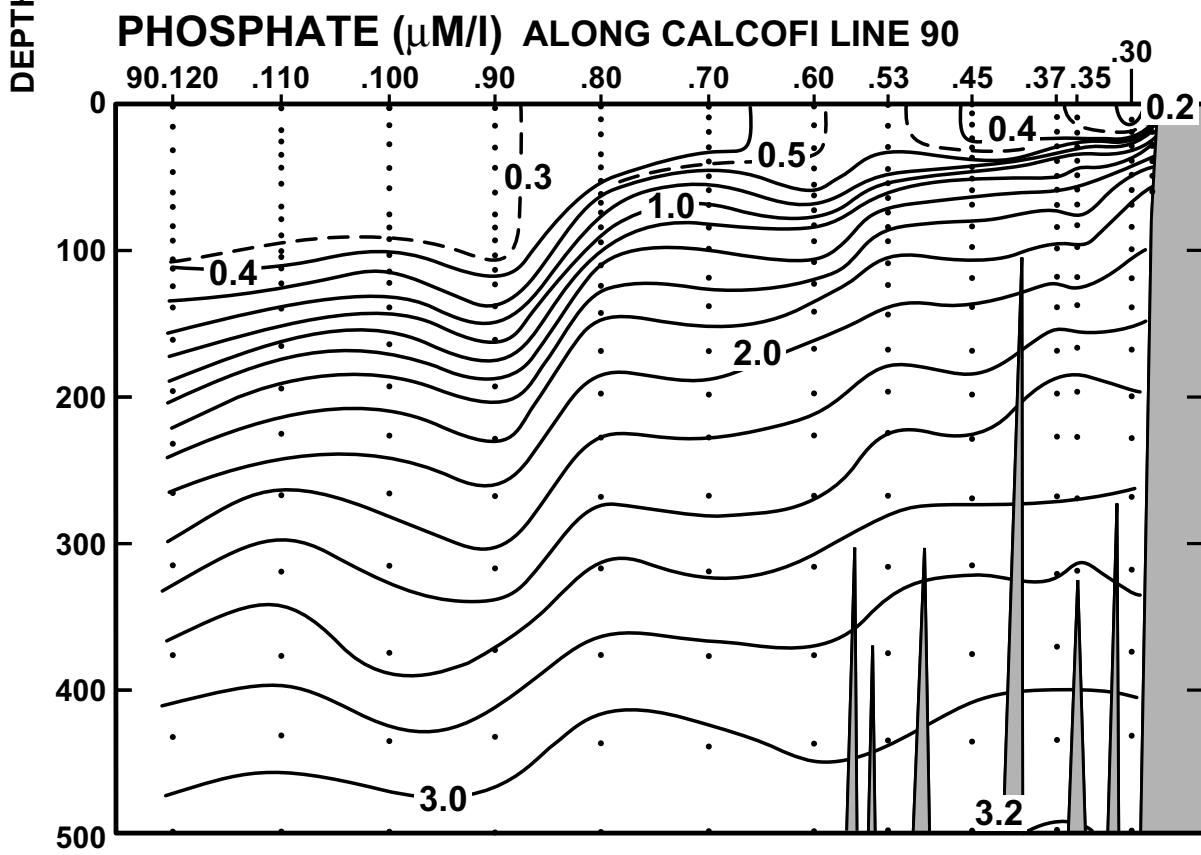


FIGURE 5F

CALCOFI CRUISE 0104

9 - 12 APRIL 2001

CHLOROPHYLL-a ($\mu\text{g/l}$) ALONG CALCOFI LINE 90

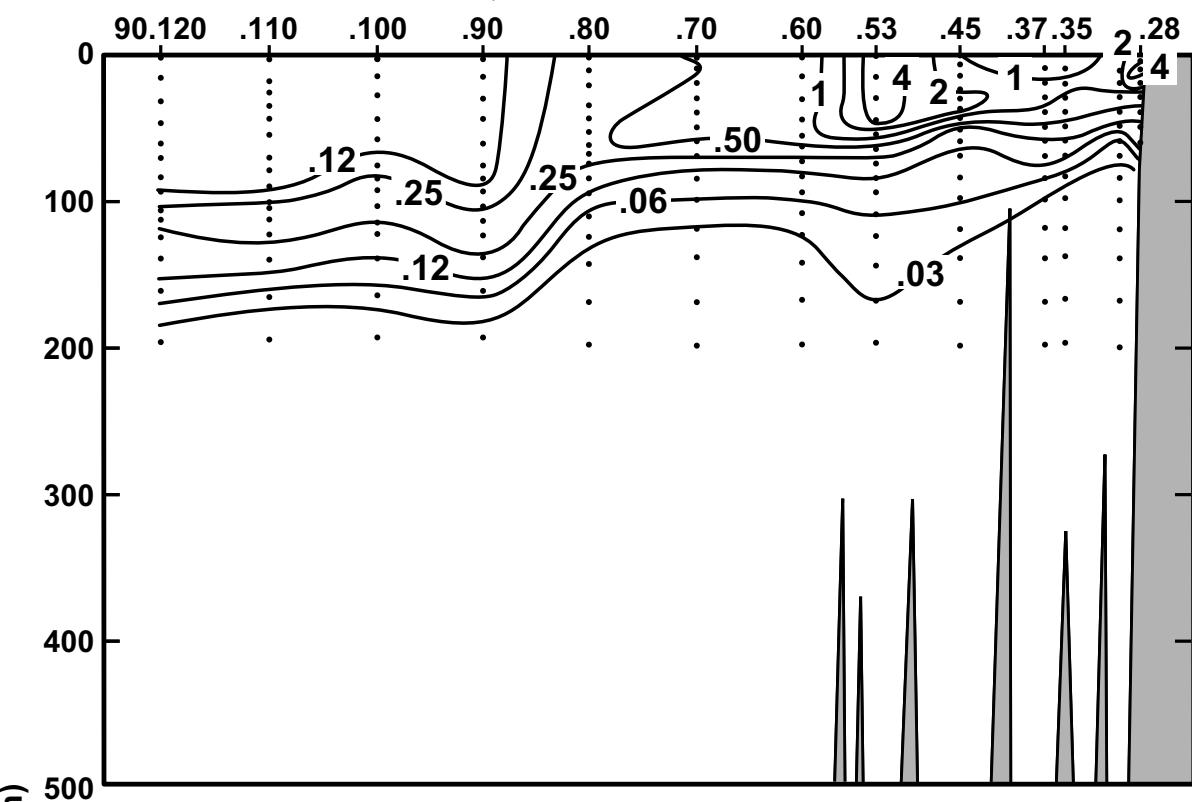


FIGURE 5G

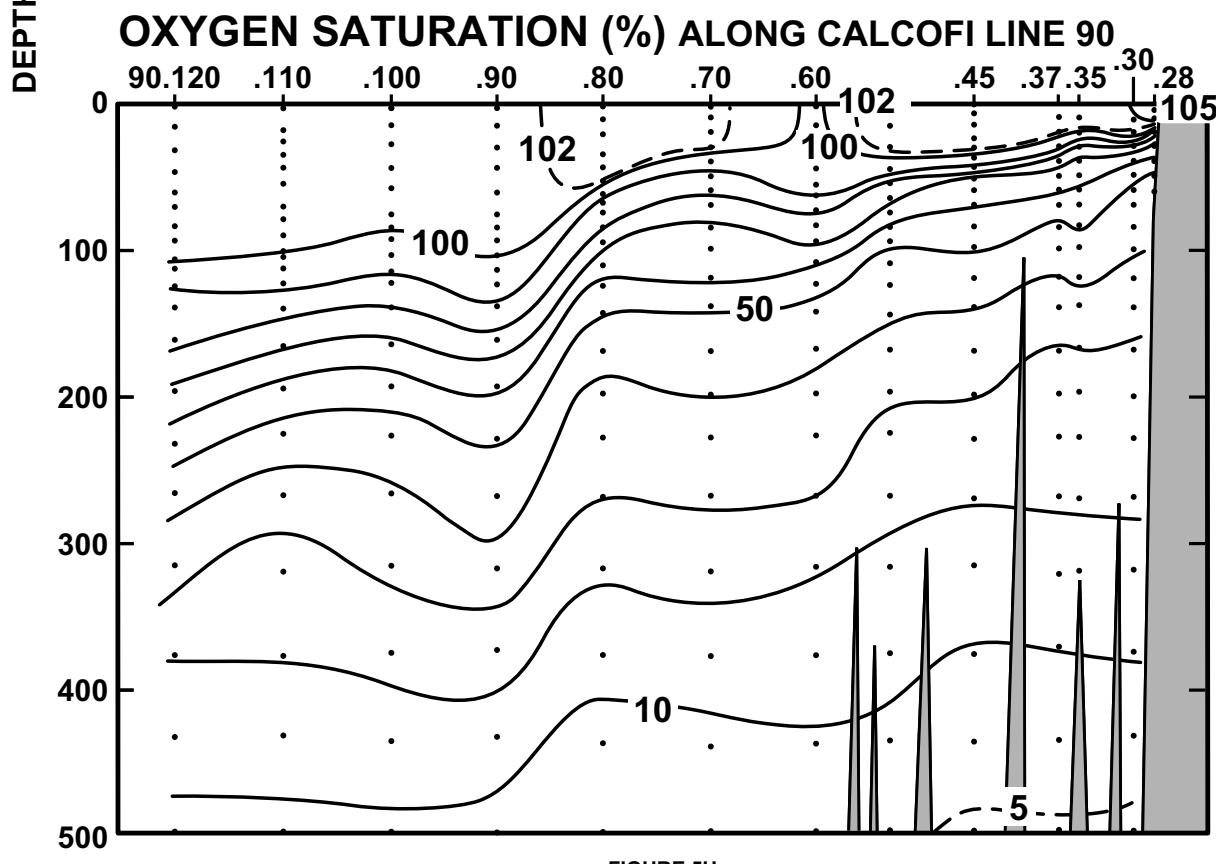


FIGURE 5H

CALCOFI CRUISE 0104

9 - 12 APRIL 2001

OXYGEN (ml/l) ALONG CALCOFI LINE 90

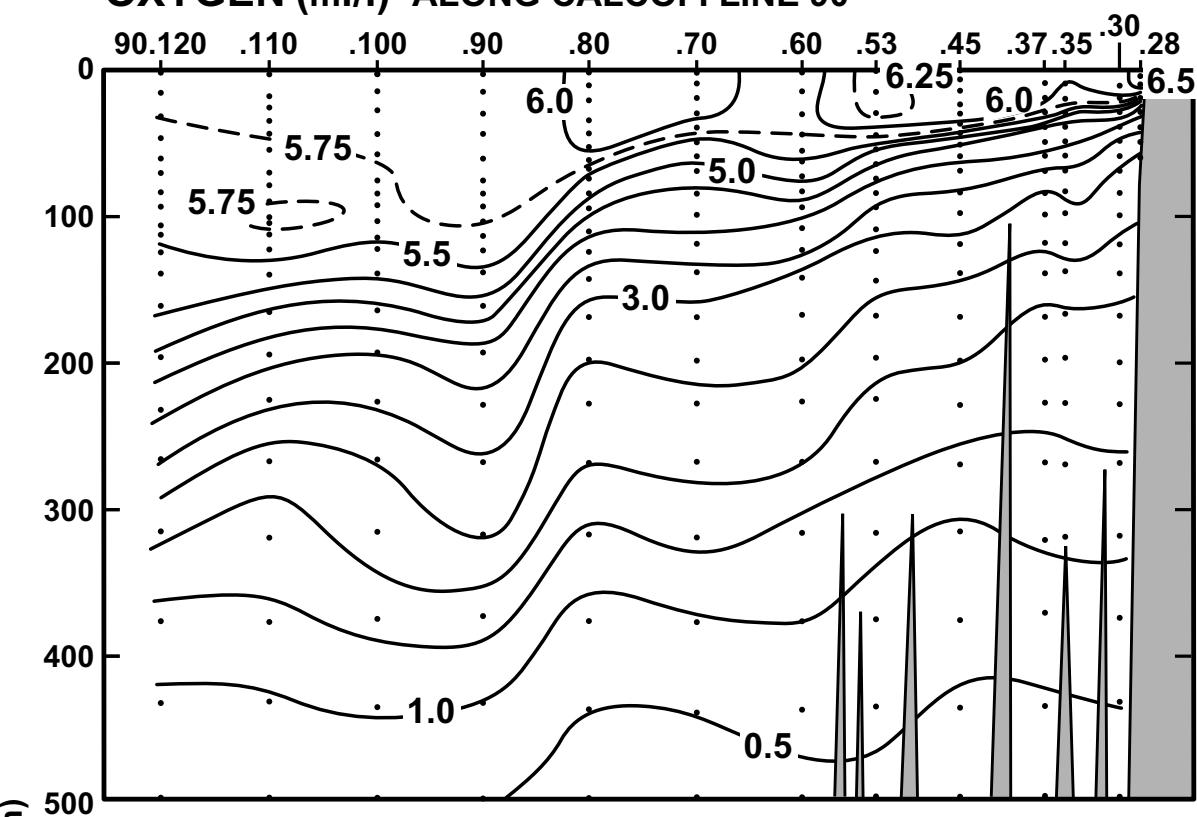


FIGURE 5I

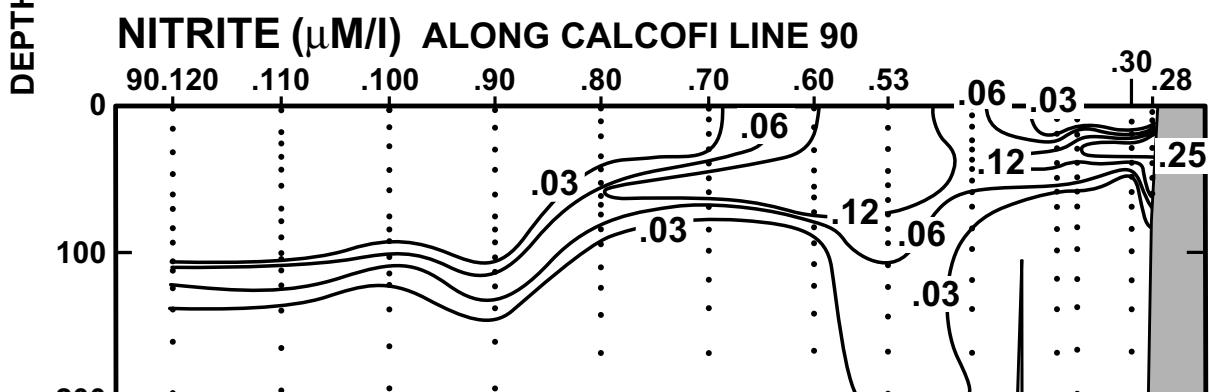


FIGURE 5J

PHAEOPIGMENTS ($\mu\text{g/l}$) ALONG CALCOFI LINE 90

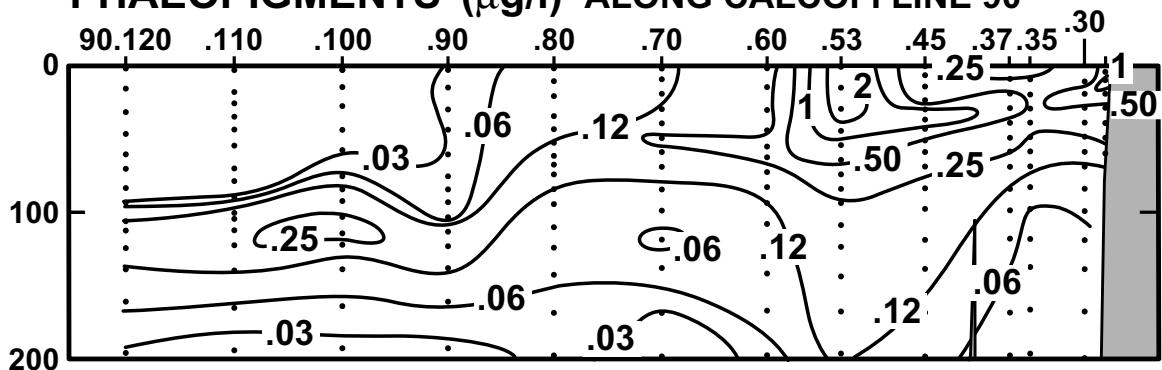


FIGURE 5K

PERSONNEL

CalCOFI Cruise 0104

SHIP'S CAPTAIN

P. Scott Hill, D.S *Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | | Participating (Legs) |
|--|---|----------------------|
| Wilkinson, James R. (Chief Scientist) | Programmer Analyst, SIO | 1,2,3 |
| Acuna, Elaine M. | Fishery Biologist, NMFS | 5 |
| Becker, Susan M. | Staff Research Associate, SIO | 2,3 |
| Curtis, Kathryn A. | Graduate Student, SIO | 2,3,4,5 |
| Dotson, Ronald C. | Fishery Biologist, NMFS | 1,2,3,4,5 |
| Griffith, David A. | Fishery Biologist, NMFS | 1,2,3,4,5 |
| Gruber, Dennis W. | Staff Research Associate, SIO | 1,2,3 |
| Hays, Amy E. | Fishery Biologist, NMFS | 1,2,3,4,5 |
| Kelly, Ciarán J. | Fisheries Scientist, Irish Marine Institute | 1 |
| Lim, Younghwa | Student, Seoul National University, Korea | 1,2 |
| Masten, Douglas M. | Staff Research Associate, SIO | 1 |
| Macewicz, Beverly J. | Fishery Biologist, NMFS | 5 |
| Oedekoven, Cornelia | Seabird Biologist, Pt. Reyes Bird Observatory | 1,2,3,4,5 |
| Poteau, Antoine | Marine Technician, SIO | 1,2,3 |
| Ramirez, Fernando | Staff Research Associate, SIO | 1,2,3 |
| Wolgast, David M. | Staff Research Associate, SIO | 1,2,3 |

Leg 1: San Diego to Dana Point, California, 6-13 April, 2001

Leg 2: Dana Point to Pt. Hueneme, California, 13-18 April, 2001

Leg 3: Pt. Hueneme to Monterey, California, 18-25 April, 2001

Leg 4: Monterey to San Francisco, California, 25-27 April, 2001

Leg 5: San Francisco to San Diego, California, 27 April- 3 May, 2001

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 49

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 35 5.1 N | 120 47.4 W | 22/04/01 | 1847 | UTC | 79 m | 310 | 20 kn | 290 04 04 | 0 | 1022.0 mb | 12.9 C | 11.2 C | 13m | 0/8 | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | deg c | deg c | | | | | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 9.61 | 9.61 | 33.698 | 26.001 | 199.6 | 0.000 | 4.47 | 69.6 | 22.7 | 1.43 | 19.4 | 0.14 | 2.12 | 0.44 | 0 | |
| 2 | 9.61 | 9.61 | 33.698 | 26.001 | 199.7 | 0.004 | 4.47 | 69.6 | 22.7 | 1.43 | 19.4 | 0.14 | 2.12 | 0.44 | 2 | 210 |
| 8 | 9.60 | 9.60 | 33.697 | 26.002 | 199.7 | 0.016 | 4.47 | 69.5 | 22.7 | 1.43 | 19.5 | 0.14 | 1.95 | 0.54 | 8 | 209 |
| 10 ISL | 9.56 | 9.56 | 33.699 | 26.010 | 199.0 | 0.020 | 4.42 | 68.7 | 22.9 | 1.44 | 19.6 | 0.13 | 1.94 | 0.53 | 10 | |
| 17 | 9.40 | 9.40 | 33.708 | 26.043 | 195.9 | 0.034 | 4.19 | 64.9 | 23.6 | 1.48 | 20.3 | 0.11 | 1.91 | 0.49 | 17 | 208 |
| 20 ISL | 9.33 | 9.33 | 33.707 | 26.054 | 195.0 | 0.040 | 4.12 | 63.7 | 23.8 | 1.49 | 20.6 | 0.10 | 1.67 | 0.47 | 20 | |
| 26 | 9.21 | 9.21 | 33.707 | 26.073 | 193.3 | 0.051 | 3.97 | 61.2 | 24.4 | 1.53 | 21.3 | 0.09 | 1.05 | 0.42 | 26 | 207 |
| 30 ISL | 9.14 | 9.14 | 33.711 | 26.087 | 192.0 | 0.059 | 3.81 | 58.7 | 25.1 | 1.57 | 22.0 | 0.07 | 0.61 | 0.34 | 30 | |
| 34 | 9.07 | 9.07 | 33.722 | 26.107 | 190.2 | 0.067 | 3.65 | 56.1 | 25.9 | 1.61 | 22.7 | 0.06 | 0.26 | 0.28 | 34 | 206 |
| 41 | 8.96 | 8.96 | 33.770 | 26.162 | 185.1 | 0.080 | 3.48 | 53.4 | 27.5 | 1.68 | 23.7 | 0.05 | 0.15 | 0.39 | 41 | 205 |
| 48 | 9.00 | 8.99 | 33.824 | 26.198 | 181.8 | 0.093 | 3.29 | 50.5 | 29.5 | 1.75 | 24.3 | 0.08 | 0.20 | 0.36 | 48 | 204 |
| 50 ISL | 9.00 | 8.99 | 33.835 | 26.207 | 181.0 | 0.096 | 3.23 | 49.6 | 30.0 | 1.76 | 24.5 | 0.08 | 0.23 | 0.39 | 50 | |
| 54 | 8.99 | 8.98 | 33.855 | 26.224 | 179.5 | 0.103 | 3.13 | 48.1 | 30.8 | 1.79 | 24.8 | 0.09 | 0.28 | 0.44 | 54 | 203 |
| 62 | 8.98 | 8.97 | 33.888 | 26.252 | 177.0 | 0.118 | 2.96 | 45.5 | | | | | 0.27 | 1.06 | 62 | 202 |
| 70 | 8.96 | 8.95 | 33.887 | 26.254 | 176.9 | 0.132 | 2.95 | 45.3 | 32.5 | 1.87 | 25.4 | 0.10 | 0.27 | 0.52 | 70 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 35 1.4 N | 120 55.0 W | 22/04/01 | 1527 | UTC | 236 m | 320 | 16 kn | 310 07 06 | 0 | 1022.6 mb | 12.5 C | 11.3 C | 12m | 0/8 | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | deg c | deg c | | | | | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 10.36 | 10.36 | 33.701 | 25.877 | 211.4 | 0.000 | 5.57 | 88.1 | 16.9 | 1.14 | 14.1 | 0.20 | 2.52 | 0.57 | 0 | |
| 2 | 10.36 | 10.36 | 33.701 | 25.877 | 211.4 | 0.004 | 5.57 | 88.1 | 16.9 | 1.14 | 14.1 | 0.20 | 2.52 | 0.57 | 2 | 215 |
| 10 | 10.36 | 10.36 | 33.700 | 25.876 | 211.7 | 0.021 | 5.55 | 87.8 | 16.9 | 1.14 | 14.0 | 0.20 | 2.35 | 0.67 | 10 | 214 |
| 20 | 10.10 | 10.10 | 33.712 | 25.930 | 206.8 | 0.042 | 5.18 | 81.5 | 18.6 | 1.21 | 15.6 | 0.19 | 3.05 | 0.66 | 20 | 213 |
| 30 | 9.26 | 9.26 | 33.746 | 26.096 | 191.2 | 0.062 | 3.78 | 58.4 | 25.3 | 1.58 | 21.6 | 0.13 | 0.95 | 0.58 | 30 | 212 |
| 40 | 9.24 | 9.24 | 33.760 | 26.110 | 190.1 | 0.081 | 3.57 | 55.1 | 26.3 | 1.64 | 22.5 | 0.11 | 0.34 | 0.47 | 40 | 211 |
| 50 | 9.16 | 9.15 | 33.800 | 26.154 | 186.0 | 0.100 | 3.36 | 51.8 | 27.7 | 1.69 | 23.5 | 0.10 | 0.20 | 0.40 | 50 | 210 |
| 60 | 8.85 | 8.84 | 33.810 | 26.211 | 180.8 | 0.118 | 3.31 | 50.7 | 29.1 | 1.76 | 24.6 | 0.04 | 0.09 | 0.29 | 60 | 209 |
| 69 | 8.80 | 8.79 | 33.843 | 26.245 | 177.8 | 0.134 | 3.26 | 49.9 | 29.7 | 1.76 | 25.1 | 0.03 | 0.08 | 0.26 | 69 | 208 |
| 75 ISL | 8.73 | 8.72 | 33.874 | 26.280 | 174.5 | 0.145 | 3.18 | 48.6 | 30.7 | 1.78 | 25.6 | 0.03 | 0.07 | 0.21 | 75 | |
| 85 | 8.58 | 8.57 | 33.926 | 26.344 | 168.6 | 0.162 | 3.05 | 46.4 | 32.8 | 1.83 | 26.4 | 0.02 | 0.07 | 0.14 | 86 | 207 |
| 99 | 8.40 | 8.39 | 33.970 | 26.407 | 162.9 | 0.185 | 3.01 | 45.7 | 35.0 | 1.89 | 27.3 | 0.02 | 0.08 | 0.19 | 100 | 206 |
| 100 ISL | 8.39 | 8.38 | 33.972 | 26.410 | 162.7 | 0.187 | 3.00 | 45.5 | 35.1 | 1.89 | 27.4 | 0.02 | 0.08 | 0.19 | 101 | |
| 120 | 8.21 | 8.20 | 34.007 | 26.465 | 157.8 | 0.219 | 2.79 | 42.1 | 37.6 | 1.97 | 28.5 | 0.02 | 0.07 | 0.12 | 121 | 205 |
| 125 ISL | 8.17 | 8.16 | 34.015 | 26.477 | 156.7 | 0.227 | 2.68 | 40.4 | 38.3 | 2.00 | 28.9 | 0.02 | 0.08 | 0.11 | 126 | |
| 140 | 8.06 | 8.05 | 34.039 | 26.513 | 153.6 | 0.250 | 2.34 | 35.2 | 40.5 | 2.11 | 30.1 | 0.02 | 0.09 | 0.09 | 141 | 204 |
| 150 ISL | 7.96 | 7.95 | 34.053 | 26.539 | 151.3 | 0.265 | 2.20 | 33.1 | 42.2 | 2.17 | 30.6 | 0.02 | 0.07 | 0.09 | 151 | |
| 170 | 7.79 | 7.77 | 34.079 | 26.584 | 147.3 | 0.295 | 1.98 | 29.6 | 45.7 | 2.29 | 31.5 | 0.01 | 0.03 | 0.12 | 171 | 203 |
| 199 | 7.71 | 7.69 | 34.121 | 26.629 | 143.5 | 0.339 | 1.56 | 23.3 | 50.6 | 2.42 | 32.7 | 0.04 | 0.04 | 0.17 | 200 | 202 |
| 200 ISL | 7.71 | 7.69 | 34.121 | 26.646 | 142.4 | 0.379 | 1.51 | 22.5 | 52.5 | 2.46 | 33.0 | 0.04 | | | 229 | 201 |
| 228 | 7.61 | 7.59 | 34.123 | 26.646 | 142.4 | 0.379 | 1.51 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 34 53.4 N | 121 11.9 W | 22/04/01 | 1148 | UTC | 560 m | 330 | 20 kn | 290 07 06 | 0 | 1022.9 mb | 11.2 C | 10.3 C | 12m | 0/8 | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | deg c | deg c | | | | | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 11.39 | 11.39 | 33.542 | 25.570 | 240.5 | 0.000 | 6.37 | 103.0 | 4.7 | 0.60 | 6.5 | 0.17 | 4.83 | 0.69 | 0 | |
| 2 | 11.39 | 11.39 | 33.542 | 25.570 | 240.6 | 0.005 | 6.37 | 103.0 | 4.7 | 0.60 | 6.5 | 0.17 | 4.83 | 0.69 | 2 | 220 |
| 10 | 11.39 | 11.39 | 33.542 | 25.571 | 240.7 | 0.024 | 6.24 | 100.9 | 4.7 | 0.60 | 6.5 | 0.16 | 5.20 | 0.54 | 10 | 219 |
| 20 | 11.27 | 11.27 | 33.560 | 25.607 | 237.5 | 0.048 | 6.18 | 99.6 | 6.2 | 0.70 | 7.6 | 0.18 | 4.50 | 0.85 | 20 | 218 |
| 29 | 11.14 | 11.14 | 33.569 | 25.637 | 234.8 | 0.069 | 5.97 | 96.0 | 7.3 | 0.76 | 8.5 | 0.18 | 4.41 | 0.54 | 29 | 217 |
| 30 ISL | 11.08 | 11.08 | 33.577 | 25.654 | 233.2 | 0.072 | 5.92 | 95.1 | 7.8 | 0.79 | 8.9 | 0.18 | 4.22 | 0.55 | 30 | |
| 39 | 10.49 | 10.49 | 33.665 | 25.827 | 217.0 | 0.092 | 5.33 | 84.5 | 14.0 | 1.13 | 13.3 | 0.22 | 2.18 | 0.69 | 39 | 216 |
| 50 | 10.02 | 10.01 | 33.743 | 25.968 | 203.8 | 0.115 | 4.26 | 66.9 | 21.4 | 1.46 | 18.9 | 0.25 | 0.87 | 0.74 | 50 | 215 |
| 60 | 9.81 | 9.80 | 33.786 | 26.037 | 197.4 | 0.135 | 3.79 | 59.3 | 25.4 | 1.62 | 21.6 | 0.25 | 0.78 | 0.82 | 60 | 214 |
| 70 | 9.66 | 9.65 | 33.837 | 26.102 | 191.5 | 0.154 | 3.45 | 53.8 | 27.7 | 1.72 | 23.3 | 0.22 | 0.67 | 0.71 | 70 | 213 |
| 75 ISL | 9.64 | 9.63 | 33.841 | 26.109 | 190.9 | 0.164 | 3.37 | 52.5 | 28.1 | 1.74 | 23.6 | 0.22 | 0.61 | 0.70 | 75 | |
| 85 | 9.61 | 9.60 | 33.849 | 26.120 | 190.1 | 0.183 | 3.29 | 51.2 | 28.5 | 1.76 | 23.9 | 0.21 | 0.50 | 0.69 | 85 | 212 |
| 100 | 9.56 | 9.55 | 33.866 | 26.142 | 188.3 | 0.211 | 3.16 | 49.2 | 29.4 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 43.2 N | 121 33.4 W | 22/04/01 | 0706 | UTC | 967 m | 330 | 20 kn | | | | | | | | | |
| 0 ISL | 12.11 | 12.11 | 33.451 | 25.366 | 260.0 | 0.000 | 6.22 | 102.0 | 4.6 | 0.48 | 4.2 | 0.15 | 1.31 | 0.47 | 0 | |
| 2 | 12.11 | 12.11 | 33.451 | 25.366 | 260.0 | 0.005 | 6.22 | 102.0 | 4.6 | 0.48 | 4.2 | 0.15 | 1.31 | 0.47 | 2 | 220 |
| 10 | 12.11 | 12.11 | 33.452 | 25.367 | 260.1 | 0.026 | 6.23 | 102.2 | 4.6 | 0.48 | 4.2 | 0.15 | 1.28 | 0.41 | 10 | 219 |
| 20 | 12.09 | 12.09 | 33.452 | 25.371 | 260.0 | 0.052 | 6.22 | 102.0 | 4.6 | 0.49 | 4.3 | 0.15 | 1.27 | 0.41 | 20 | 218 |
| 30 | 11.99 | 11.99 | 33.457 | 25.394 | 258.0 | 0.078 | 6.11 | 100.0 | 5.1 | 0.53 | 4.6 | 0.16 | 1.13 | 0.47 | 30 | 217 |
| 40 | 11.64 | 11.63 | 33.498 | 25.491 | 249.0 | 0.103 | 6.12 | 99.4 | 5.2 | 0.59 | 5.7 | 0.16 | 2.25 | 0.76 | 40 | 216 |
| 50 | 11.23 | 11.22 | 33.506 | 25.573 | 241.5 | 0.128 | 5.83 | 93.9 | 7.4 | 0.76 | 7.5 | 0.18 | 1.00 | 0.61 | 50 | 215 |
| 60 | 10.52 | 10.51 | 33.554 | 25.736 | 226.2 | 0.151 | 5.01 | 79.5 | 13.7 | 1.10 | 13.0 | 0.20 | 0.79 | 0.85 | 60 | 214 |
| 70 | 10.37 | 10.36 | 33.612 | 25.807 | 219.6 | 0.173 | 4.43 | 70.1 | 18.4 | 1.31 | 16.8 | 0.22 | 0.38 | 0.70 | 70 | 213 |
| 75 ISL | 10.33 | 10.32 | 33.644 | 25.839 | 216.7 | 0.184 | 4.64 | 73.3 | 17.6 | 1.30 | 16.3 | 0.21 | 0.49 | 0.64 | 75 | |
| 85 | 10.22 | 10.21 | 33.704 | 25.905 | 210.6 | 0.206 | 5.07 | 80.0 | 15.9 | 1.26 | 15.1 | 0.19 | 0.81 | 0.58 | 85 | 212 |
| 100 | 9.81 | 9.80 | 33.761 | 26.019 | 200.1 | 0.237 | 3.94 | 61.6 | 23.6 | 1.57 | 20.7 | 0.23 | 0.65 | 0.72 | 101 | 211 |
| 120 | 9.37 | 9.36 | 33.908 | 26.206 | 182.6 | 0.275 | 2.84 | 44.0 | 31.0 | 1.89 | 25.8 | 0.18 | 0.27 | 0.74 | 121 | 210 |
| 125 ISL | 9.32 | 9.31 | 33.928 | 26.230 | 180.4 | 0.284 | 2.68 | 41.5 | 31.9 | 1.92 | 26.4 | 0.14 | 0.22 | 0.71 | 126 | |
| 139 | 9.18 | 9.16 | 33.968 | 26.284 | 175.6 | 0.309 | 2.40 | 37.0 | 33.5 | 1.98 | 27.4 | 0.03 | 0.15 | 0.60 | 140 | 209 |
| 150 ISL | 8.97 | 8.95 | 33.993 | 26.337 | 170.7 | 0.328 | 2.35 | 36.1 | 34.8 | 2.02 | 28.1 | 0.03 | 0.12 | 0.51 | 151 | |
| 170 | 8.61 | 8.59 | 34.029 | 26.422 | 162.9 | 0.361 | 2.25 | 34.3 | 37.2 | 2.08 | 29.1 | 0.02 | 0.09 | 0.37 | 171 | 208 |
| 199 | 8.43 | 8.41 | 34.067 | 26.480 | 157.9 | 0.408 | 2.02 | 30.7 | 40.5 | 2.19 | 30.3 | 0.01 | 0.06 | 0.33 | 200 | 207 |
| 200 ISL | 8.42 | 8.40 | 34.068 | 26.482 | 157.7 | 0.409 | 2.02 | 30.7 | 40.6 | 2.19 | 30.4 | 0.01 | | | 201 | |
| 219 | 8.14 | 8.12 | 34.080 | 26.534 | 153.1 | 0.439 | 1.96 | 29.6 | 43.0 | 2.26 | 31.3 | 0.00 | | | 220 | 206 |
| 250 ISL | 7.62 | 7.60 | 34.077 | 26.608 | 146.3 | 0.485 | 1.92 | 28.6 | 47.1 | 2.33 | 32.5 | 0.00 | | | 252 | |
| 267 | 7.36 | 7.33 | 34.075 | 26.644 | 143.1 | 0.510 | 1.87 | 27.7 | 49.5 | 2.37 | 33.1 | 0.01 | | | 269 | 205 |
| 300 ISL | 7.03 | 7.00 | 34.098 | 26.708 | 137.3 | 0.556 | 1.56 | 22.9 | 54.6 | 2.50 | 34.7 | 0.01 | | | 302 | |
| 318 | 6.90 | 6.87 | 34.114 | 26.739 | 134.6 | 0.581 | 1.36 | 19.9 | 57.3 | 2.58 | 35.5 | 0.01 | | | 320 | 204 |
| 378 | 6.56 | 6.53 | 34.158 | 26.820 | 127.7 | 0.659 | 0.93 | 13.5 | 64.9 | 2.77 | 37.6 | 0.01 | | | 381 | 203 |
| 400 ISL | 6.34 | 6.30 | 34.170 | 26.858 | 124.2 | 0.687 | 0.79 | 11.4 | 68.8 | 2.83 | 38.5 | 0.01 | | | 403 | |
| 440 | 5.96 | 5.92 | 34.194 | 26.926 | 118.0 | 0.735 | 0.58 | 8.3 | 75.6 | 2.94 | 40.1 | 0.00 | | | 443 | 202 |
| 500 ISL | 5.71 | 5.67 | 34.238 | 26.992 | 112.2 | 0.804 | 0.42 | 6.0 | 81.5 | 3.05 | 41.2 | 0.00 | | | 504 | |
| 513 | 5.65 | 5.61 | 34.248 | 27.007 | 110.9 | 0.819 | 0.38 | 5.4 | 82.8 | 3.07 | 41.4 | 0.00 | | | 517 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 23.3 N | 122 14.7 W | 21/04/01 | 2337 | UTC | 4013 m | 330 | 19 kn | 320 06 08 | 1 | 1025.4 mb | 12.9 | C 11.1 C | 12m | 7/8 | ST | |
| 0 ISL | 12.96 | 12.96 | 33.283 | 25.071 | 288.0 | 0.000 | 6.25 | 104.3 | 3.5 | 0.28 | 1.1 | 0.06 | 0.84 | 0.16 | 0 | |
| 2 | 12.96 | 12.96 | 33.283 | 25.071 | 288.0 | 0.006 | 6.25 | 104.3 | 3.5 | 0.28 | 1.1 | 0.06 | 0.84 | 0.16 | 2 | 220 |
| 10 ISL | 12.96 | 12.96 | 33.286 | 25.074 | 288.0 | 0.029 | 6.25 | 104.3 | 3.4 | 0.28 | 1.1 | 0.06 | 0.84 | 0.19 | 10 | |
| 11 | 12.96 | 12.96 | 33.287 | 25.075 | 287.9 | 0.032 | 6.25 | 104.3 | 3.4 | 0.28 | 1.1 | 0.06 | 0.84 | 0.19 | 11 | 219 |
| 20 ISL | 12.93 | 12.93 | 33.282 | 25.077 | 288.0 | 0.058 | 6.26 | 104.4 | 3.3 | 0.28 | 1.1 | 0.06 | 0.86 | 0.22 | 20 | |
| 21 | 12.93 | 12.93 | 33.281 | 25.076 | 288.1 | 0.060 | 6.26 | 104.4 | 3.3 | 0.28 | 1.1 | 0.06 | 0.86 | 0.22 | 21 | 218 |
| 30 ISL | 12.89 | 12.89 | 33.282 | 25.085 | 287.5 | 0.086 | 6.25 | 104.1 | 3.2 | 0.28 | 1.1 | 0.06 | 0.89 | 0.19 | 30 | |
| 31 | 12.89 | 12.89 | 33.282 | 25.085 | 287.5 | 0.089 | 6.25 | 104.1 | 3.2 | 0.28 | 1.1 | 0.06 | 0.89 | 0.19 | 31 | 217 |
| 40 | 12.43 | 12.42 | 33.322 | 25.206 | 276.2 | 0.115 | 6.04 | 99.7 | 4.9 | 0.47 | 3.3 | 0.15 | 0.53 | 0.21 | 40 | 216 |
| 50 ISL | 11.72 | 11.71 | 33.386 | 25.390 | 258.9 | 0.141 | 5.83 | 94.8 | 6.9 | 0.66 | 6.0 | 0.22 | 0.44 | 0.27 | 50 | |
| 51 | 11.66 | 11.65 | 33.393 | 25.406 | 257.4 | 0.144 | 5.81 | 94.3 | 7.1 | 0.68 | 6.3 | 0.22 | 0.44 | 0.28 | 51 | 215 |
| 61 | 11.43 | 11.42 | 33.439 | 25.484 | 250.2 | 0.169 | 5.65 | 91.3 | 8.9 | 0.80 | 7.9 | 0.25 | 0.31 | 0.26 | 61 | 214 |
| 71 | 11.26 | 11.25 | 33.490 | 25.555 | 243.7 | 0.194 | 5.66 | 91.2 | 9.4 | 0.87 | 8.9 | 0.21 | 0.22 | 0.22 | 71 | 213 |
| 75 ISL | 11.18 | 11.17 | 33.511 | 25.586 | 240.8 | 0.204 | 5.62 | 90.4 | 10.1 | 0.91 | 9.4 | 0.22 | 0.22 | 0.23 | 75 | |
| 84 | 11.02 | 11.01 | 33.561 | 25.654 | 234.6 | 0.225 | 5.43 | 87.1 | 12.5 | 1.01 | 11.1 | 0.23 | 0.21 | 0.25 | 84 | 212 |
| 100 | 10.81 | 10.80 | 33.659 | 25.768 | 224.1 | 0.262 | 4.75 | 75.9 | 18.2 | 1.26 | 15.7 | 0.43 | 0.22 | 0.26 | 101 | 211 |
| 120 | 10.42 | 10.41 | 33.727 | 25.889 | 212.9 | 0.306 | 4.09 | 64.8 | 22.1 | 1.46 | 19.2 | 0.21 | 0.17 | 0.27 | 121 | 210 |
| 125 ISL | 10.30 | 10.29 | 33.753 | 25.930 | 209.1 | 0.316 | 3.82 | 60.4 | 23.1 | 1.52 | 20.2 | 0.15 | 0.15 | 0.25 | 126 | |
| 140 | 9.93 | 9.91 | 33.838 | 26.059 | 197.1 | 0.347 | 3.02 | 47.4 | 26.3 | 1.71 | 23.0 | 0.01 | 0.10 | 0.17 | 141 | 209 |
| 150 ISL | 9.72 | 9.70 | 33.891 | 26.136 | 190.0 | 0.366 | 2.71 | 42.3 | 28.5 | 1.81 | 24.5 | 0.01 | 0.08 | 0.18 | 151 | |
| 169 | 9.34 | 9.32 | 33.978 | 26.267 | 177.9 | 0.401 | 2.36 | 36.6 | 32.4 | 1.97 | 26.7 | 0.01 | 0.06 | 0.21 | 170 | 208 |
| 199 | 8.77 | 8.75 | 34.063 | 26.424 | 163.3 | 0.452 | 2.08 | 31.8 | 37.6 | 2.13 | 29.0 | 0.00 | 0.07 | 0.14 | 200 | 207 |
| 200 ISL | 8.76 | 8.74 | 34.065 | 26.427 | 163.1 | 0.454 | 2.07 | 31.7 | 37.7 | 2.13 | 29.1 | 0.00 | | | 201 | |
| 229 | 8.31 | 8.29 | 34.106 | 26.529 | 153.8 | 0.500 | 1.84 | 27.9 | 41.7 | 2.25 | 30.7 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.82 | 7.80 | 34.086 | 26.586 | 148.5 | 0.531 | 1.93 | 28.9 | 44.7 | 2.28 | 31.7 | 0.00 | | | 251 | |
| 269 | 7.40 | 7.37 | 34.064 | 26.630 | 144.5 | 0.559 | 2.02 | 30.0 | 47.5 | 2.30 | 32.5 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.05 | 7.02 | 34.080 | 26.691 | 138.9 | 0.603 | 1.72 | 25.3 | 52.7 | 2.44 | 34.1 | 0.00 | | | 302 | |
| 317 | 6.92 | 6.89 | 34.099 | 26.724 | 136.0 | 0.626 | 1.48 | 21.7 | 55.7 | 2.53 | 35.0 | 0.00 | | | 319 | 204 |
| 378 | 6.46 | 6.43 | 34.179 | 26.849 | 124.8 | 0.706 | 0.82 | 11.9 | 67.0 | 2.82 | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|------|--------|--------|------|---------|----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 34 | 4.0 N | 122 58.4 W | 21/04/01 | 1723 | UTC | 4234 m | 340 | 19 kn | 310 07 07 | 2 | 1026.1 mb | 13.2 | C 11.1 | C | 15m | 8/8 | ST |
| 0 | ISL | 13.05 | 13.05 | 33.197 | 24.987 | 296.0 | 0.000 | 6.24 | 104.2 | 3.1 | 0.24 | 0.4 | 0.03 | 0.59 | 0.12 | 0 | |
| 2 | A | 13.05 | 13.05 | 33.197 | 24.987 | 296.1 | 0.006 | 6.24 | 104.2 | 3.1 | 0.24 | 0.4 | 0.03 | 0.59 | 0.12 | 2 221 | |
| 10 | A | 13.05 | 13.05 | 33.197 | 24.987 | 296.2 | 0.030 | 6.22 | 103.9 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 10 220 | |
| 20 | A | 13.05 | 13.05 | 33.197 | 24.988 | 296.5 | 0.059 | 6.23 | 104.1 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 20 219 | |
| 30 | A | 13.05 | 13.05 | 33.197 | 24.988 | 296.7 | 0.089 | 6.22 | 103.9 | 3.0 | 0.24 | 0.4 | 0.03 | 0.59 | 0.13 | 30 218 | |
| 39 | A | 13.05 | 13.04 | 33.197 | 24.988 | 297.0 | 0.116 | 6.21 | 103.7 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 39 217 | |
| 47 | | 13.05 | 13.04 | 33.197 | 24.988 | 297.1 | 0.139 | 6.21 | 103.7 | 3.0 | 0.25 | 0.4 | 0.03 | 0.59 | 0.12 | 47 216 | |
| 50 | ISL | 13.05 | 13.04 | 33.197 | 24.988 | 297.2 | 0.148 | 6.21 | 103.7 | 3.0 | 0.25 | 0.4 | 0.03 | 0.59 | 0.12 | 50 | |
| 55 | A | 13.05 | 13.04 | 33.197 | 24.989 | 297.3 | 0.163 | 6.22 | 103.9 | 3.0 | 0.25 | 0.5 | 0.03 | 0.58 | 0.12 | 55 215 | |
| 62 | | 13.04 | 13.03 | 33.203 | 24.995 | 296.9 | 0.184 | 6.21 | 103.7 | 2.9 | 0.25 | 0.5 | 0.03 | 0.56 | 0.13 | 62 214 | |
| 71 | | 13.02 | 13.01 | 33.214 | 25.008 | 295.9 | 0.211 | 6.19 | 103.3 | 2.7 | 0.25 | 0.5 | 0.04 | 0.56 | 0.11 | 71 213 | |
| 75 | ISL | 12.93 | 12.92 | 33.224 | 25.034 | 293.6 | 0.222 | 6.15 | 102.5 | 2.8 | 0.28 | 0.6 | 0.07 | 0.54 | 0.14 | 75 | |
| 85 | | 12.54 | 12.53 | 33.265 | 25.142 | 283.5 | 0.251 | 6.04 | 99.8 | 3.9 | 0.40 | 1.9 | 0.13 | 0.46 | 0.22 | 85 212 | |
| 100 | | 11.58 | 11.57 | 33.374 | 25.407 | 258.5 | 0.292 | 5.33 | 86.4 | 8.3 | 0.70 | 7.7 | 0.06 | 0.20 | 0.14 | 100 211 | |
| 120 | | 10.07 | 10.06 | 33.439 | 25.724 | 228.5 | 0.341 | 4.70 | 73.7 | 13.7 | 1.08 | 13.8 | 0.02 | 0.08 | 0.11 | 121 210 | |
| 125 | ISL | 9.87 | 9.86 | 33.506 | 25.810 | 220.4 | 0.352 | 4.42 | 69.1 | 16.0 | 1.20 | 15.8 | 0.02 | 0.07 | 0.11 | 126 | |
| 140 | | 9.48 | 9.46 | 33.722 | 26.043 | 198.5 | 0.383 | 3.58 | 55.5 | 23.1 | 1.55 | 21.5 | 0.01 | 0.04 | 0.10 | 141 209 | |
| 150 | ISL | 9.31 | 9.29 | 33.807 | 26.137 | 189.7 | 0.403 | 3.25 | 50.3 | 26.0 | 1.68 | 23.6 | 0.01 | 0.03 | 0.09 | 151 | |
| 170 | | 9.05 | 9.03 | 33.911 | 26.261 | 178.4 | 0.439 | 2.90 | 44.6 | 30.0 | 1.83 | 26.0 | 0.01 | 0.02 | 0.07 | 171 208 | |
| 199 | | 8.59 | 8.57 | 33.988 | 26.393 | 166.2 | 0.489 | 2.81 | 42.8 | 34.0 | 1.91 | 27.5 | 0.00 | 0.01 | 0.08 | 200 207 | |
| 200 | ISL | 8.57 | 8.55 | 33.990 | 26.398 | 165.8 | 0.491 | 2.80 | 42.6 | 34.2 | 1.91 | 27.6 | 0.00 | | | 201 | |
| 229 | | 8.12 | 8.10 | 34.032 | 26.500 | 156.5 | 0.538 | 2.51 | 37.8 | 39.4 | 2.06 | 29.5 | 0.00 | | | 230 206 | |
| 250 | ISL | 7.77 | 7.75 | 34.042 | 26.559 | 151.0 | 0.570 | 2.35 | 35.1 | 42.9 | 2.15 | 30.7 | 0.00 | | | 251 | |
| 270 | | 7.45 | 7.42 | 34.044 | 26.607 | 146.7 | 0.600 | 2.22 | 33.0 | 46.1 | 2.23 | 31.7 | 0.00 | | | 272 205 | |
| 300 | ISL | 7.06 | 7.03 | 34.043 | 26.661 | 141.8 | 0.643 | 2.01 | 29.6 | 50.8 | 2.35 | 33.3 | 0.00 | | | 302 | |
| 319 | | 6.84 | 6.81 | 34.044 | 26.692 | 139.0 | 0.670 | 1.87 | 27.4 | 53.8 | 2.42 | 34.3 | 0.00 | | | 321 204 | |
| 378 | | 6.28 | 6.25 | 34.088 | 26.801 | 129.2 | 0.749 | 1.25 | 18.1 | 64.3 | 2.68 | 37.5 | 0.00 | | | 380 203 | |
| 400 | ISL | 6.10 | 6.06 | 34.101 | 26.834 | 126.2 | 0.777 | 1.09 | 15.7 | 67.9 | 2.76 | 38.4 | 0.00 | | | 403 | |
| 439 | | 5.83 | 5.79 | 34.125 | 26.887 | 121.4 | 0.825 | 0.85 | 12.1 | 73.8 | 2.87 | 39.8 | 0.00 | | | 442 202 | |
| 500 | ISL | 5.55 | 5.51 | 34.181 | 26.966 | 114.5 | 0.897 | 0.56 | 8.0 | 81.7 | 3.00 | 41.2 | 0.00 | | | 503 | |
| 518 | | 5.47 | 5.43 | 34.198 | 26.990 | 112.4 | 0.918 | 0.47 | 6.7 | 84.0 | 3.04 | 41.6 | 0.00 | | | 522 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|---------|-----------|------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 | 43.3 N | 123 38.3 W | 21/04/01 | 0746 | UTC | 4244 m | 340 | 18 kn | | 1025.0 mb | 12.5 | C 10.0 | C | | | |
| 0 | ISL | 13.56 | 13.56 | 33.157 | 24.854 | 308.7 | 0.000 | | 4.0 | 0.21 | 0.0 | 0.00 | 0.22 | 0.04 | 0 | |
| 2 | | 13.56 | 13.56 | 33.157 | 24.854 | 308.7 | 0.006 | 6.23 | U 105.2 | U 4.0 | 0.21 | 0.0 | 0.00 | 0.22 | 0.04 | 2 220 |
| 10 | ISL | 13.57 | 13.57 | 33.157 | 24.852 | 309.1 | 0.031 | | 4.0 | 0.21 | 0.0 | 0.00 | 0.22 | 0.04 | 10 | |
| 16 | | 13.57 | 13.57 | 33.157 | 24.852 | 309.3 | 0.049 | 6.15 | 103.8 | 4.0 | 0.21 | 0.0 | 0.00 | 0.22 | 0.04 | 16 219 |
| 20 | ISL | 13.57 | 13.57 | 33.158 | 24.853 | 309.3 | 0.062 | 6.14 | 103.7 | 3.9 | 0.21 | 0.0 | 0.00 | 0.22 | 0.04 | 20 |
| 30 | ISL | 13.56 | 13.56 | 33.159 | 24.856 | 309.3 | 0.093 | 6.13 | 103.5 | 3.7 | 0.21 | 0.0 | 0.00 | 0.22 | 0.05 | 30 |
| 31 | | 13.56 | 13.56 | 33.159 | 24.856 | 309.3 | 0.096 | 6.13 | 103.5 | 3.7 | 0.21 | 0.0 | 0.00 | 0.22 | 0.05 | 31 218 |
| 46 | | 13.19 | 13.18 | 33.162 | 24.933 | 302.4 | 0.142 | 6.14 | 102.8 | 3.9 | 0.22 | 0.1 | 0.01 | 0.31 | 0.09 | 46 217 |
| 50 | ISL | 13.00 | 12.99 | 33.174 | 24.980 | 298.0 | 0.154 | 6.07 | 101.3 | 4.4 | 0.27 | 0.8 | 0.08 | 0.41 | 0.12 | 50 |
| 54 | | 12.79 | 12.78 | 33.189 | 25.033 | 293.0 | 0.166 | 5.99 | 99.5 | 4.9 | 0.33 | 1.6 | 0.15 | 0.51 | 0.16 | 54 216 |
| 66 | | 12.20 | 12.19 | 33.236 | 25.184 | 279.0 | 0.200 | 5.95 | 97.6 | 5.5 | 0.43 | 3.0 | 0.27 | 0.56 | 0.29 | 66 215 |
| 75 | ISL | 11.66 | 11.65 | 33.244 | 25.291 | 268.9 | 0.225 | 5.71 | 92.6 | 7.2 | 0.59 | 5.7 | 0.17 | 0.49 | 0.21 | 75 |
| 76 | | 11.60 | 11.59 | 33.246 | 25.304 | 267.7 | 0.227 | 5.68 | 92.0 | 7.4 | 0.61 | 6.0 | 0.15 | 0.48 | 0.20 | 76 214 |
| 86 | | 11.00 | 10.99 | 33.326 | 25.474 | 251.6 | 0.253 | 5.29 | 84.6 | 10.0 | 0.80 | 9.4 | 0.07 | 0.38 | 0.21 | 86 213 |
| 95 | | 10.26 | 10.25 | 33.354 | 25.625 | 237.4 | 0.275 | 4.98 | 78.4 | 12.7 | 1.00 | 12.6 | 0.04 | 0.18 | 0.15 | 95 212 |
| 100 | ISL | 10.02 | 10.01 | 33.393 | 25.696 | 230.7 | 0.287 | 4.80 | 75.2 | 14.1 | 1.09 | 14.0 | 0.04 | 0.15 | 0.15 | 100 |
| 110 | | 9.74 | 9.73 | 33.494 | 25.822 | 218.9 | 0.309 | 4.45 | 69.3 | 16.9 | 1.23 | 16.4 | 0.03 | 0.10 | 0.14 | 111 211 |
| 125 | | 9.51 | 9.50 | 33.654 | 25.985 | 203.7 | 0.341 | 3.95 | 61.3 | 20.8 | 1.41 | 19.6 | 0.02 | 0.06 | 0.14 | 126 210 |
| 145 | | 9.30 | 9.28 | 33.809 | 26.141 | 189.3 | 0.380 | 3.26 | 50.4 | 26.6 | 1.69 | 23.8 | 0.01 | 0.04 | 0.12 | 146 209 |
| 150 | ISL | 9.27 | 9.25 | 33.827 | 26.159 | 187.6 | 0.390 | 3.24 | 50.1 | 27.2 | 1.70 | 24.2 | 0.01 | 0.04 | 0.12 | 151 |
| 170 | | 9.10 | 9.08 | 33.875 | 26.225 | 181.8 | 0.427 | 3.16 | 48.7 | 28.7 | 1.76 | 24.9 | 0.01 | 0.02 | 0.10 | 171 208 |
| 198 | | 8.58 | 8.56 | 33.979 | 26.388 | 166.7 | 0.476 | 3.04 | 46.3 | 33.0 | 1.85 | 26.5 | 0.01 | 0.02 | 0.07 | 199 207 |
| 200 | ISL | 8.55 | 8.53 | 33.983 | 26.396 | 166.0 | 0.479 | 3.03 | 46.1 | 33.3 | 1.85 | 26.6 | 0.01 | | | 201 |
| 230 | | 8.06 | 8.04 | 34.015 | 26.495 | 156.9 | 0.527 | 2.87 | 43.2 | 38.0 | 1.95 | 28.4 | 0.01 | | | 231 206 |
| 250 | ISL | 7.76 | 7.74 | 34.032 | 26.553 | 151.6 | 0.558 | 2.56 | 38.3 | 42.0 | 2.09 | 30.2 | 0.00 | | | 251 |
| 271 | | 7.47 | 7.44 | 34.046 | 26.606 | 146.8 | 0.589 | 2.21 | 32.8 | 46.4 | 2.24 | 32.0 | 0.00 | | | 273 205 |
| 300 | ISL | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|--------|------|------|-----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | | |
| 33 23.3 N | 124 19.6 W | 21/04/01 | 0052 | UTC | 340 | 23 kn | 320 | 11 07 | 1 | 1023.2 mb | 12.9 | C 11.9 C | 3/8 | CU | | | |
| 0 ISL | 13.77 | 13.77 | 33.144 | 24.801 | 313.7 | 0.000 | 6.09 | 103.2 | 3.4 | 0.34 | 0.0 | 0.00 | 0.18 | 0.03 | 0 | | |
| 2 | 13.77 | 13.77 | 33.144 | 24.801 | 313.8 | 0.006 | 6.09 | 103.2 | 3.4 | 0.34 | 0.0 | 0.00 | 0.18 | 0.03 | 2 | 220 | |
| 10 ISL | 13.78 | 13.78 | 33.143 | 24.799 | 314.2 | 0.031 | 6.09 | 103.2 | 3.4 | 0.35 | 0.0 | 0.00 | 0.19 | 0.03 | 10 | | |
| 16 | 13.78 | 13.78 | 33.142 | 24.798 | 314.5 | 0.050 | 6.08 | 103.1 | 3.4 | 0.35 | 0.0 | 0.00 | 0.19 | 0.02 | 16 | 219 | |
| 20 ISL | 13.78 | 13.78 | 33.143 | 24.799 | 314.5 | 0.063 | 6.08 | 103.1 | 3.4 | 0.35 | 0.0 | 0.00 | 0.20 | 0.01 | 20 | | |
| 29 | 13.77 | 13.77 | 33.144 | 24.802 | 314.4 | 0.091 | 6.07 | 102.9 | 3.3 | 0.34 | 0.0 | 0.00 | 0.23 | 0.00 | 29 | 218 | |
| 30 ISL | 13.77 | 13.77 | 33.145 | 24.803 | 314.4 | 0.094 | 6.07 | 102.9 | 3.3 | 0.34 | 0.0 | 0.00 | 0.23 | 0.00 | 30 | | |
| 46 | 13.70 | 13.69 | 33.156 | 24.826 | 312.6 | 0.144 | 6.08 | 102.9 | 3.4 | 0.34 | 0.0 | 0.00 | 0.25 | 0.02 | 46 | 217 | |
| 50 ISL | 13.66 | 13.65 | 33.153 | 24.832 | 312.1 | 0.157 | 6.08 | 102.8 | 3.3 | 0.34 | 0.0 | 0.00 | 0.26 | 0.05 | 50 | | |
| 55 | 13.60 | 13.59 | 33.150 | 24.842 | 311.3 | 0.173 | 6.07 | 102.5 | 3.3 | 0.34 | 0.0 | 0.00 | 0.28 | 0.09 | 55 | 216 | |
| 66 | 13.51 | 13.50 | 33.154 | 24.864 | 309.6 | 0.207 | | | | 3.5 | 0.34 | 0.0 | 0.00 | 0.46 | 0.14 | 66 | 215 |
| 75 ISL | 13.54 | 13.53 | 33.165 | 24.866 | 309.6 | 0.235 | 6.01 | 101.4 | 3.5 | 0.36 | 0.1 | 0.00 | 0.53 | 0.17 | 75 | | |
| 76 | 13.54 | 13.53 | 33.166 | 24.867 | 309.5 | 0.238 | 6.01 | 101.4 | 3.5 | 0.36 | 0.1 | 0.00 | 0.53 | 0.17 | 76 | 214 | |
| 85 | 12.98 | 12.97 | 33.209 | 25.012 | 295.9 | 0.265 | 5.79 | 96.6 | 4.4 | 0.49 | 1.9 | 0.11 | 0.48 | 0.23 | 85 | 213 | |
| 94 | 11.49 | 11.48 | 33.288 | 25.357 | 263.1 | 0.290 | 5.38 | 87.0 | 7.2 | 0.78 | 6.9 | 0.10 | 0.30 | 0.23 | 94 | 212 | |
| 100 ISL | 11.02 | 11.01 | 33.322 | 25.468 | 252.6 | 0.305 | 5.32 | 85.2 | 8.1 | 0.83 | 8.4 | 0.07 | 0.24 | 0.21 | 100 | | |
| 110 | 10.66 | 10.65 | 33.358 | 25.560 | 244.0 | 0.330 | 5.22 | 82.9 | 8.9 | 0.91 | 9.4 | 0.03 | 0.18 | 0.16 | 111 | 211 | |
| 125 | 10.17 | 10.16 | 33.422 | 25.694 | 231.5 | 0.366 | 5.10 | 80.2 | 10.6 | 1.00 | 11.0 | 0.01 | 0.10 | 0.09 | 126 | 210 | |
| 145 | 9.71 | 9.69 | 33.502 | 25.834 | 218.5 | 0.411 | 4.80 | 74.7 | 13.7 | 1.18 | 14.1 | 0.01 | 0.07 | 0.02 | 146 | 209 | |
| 150 ISL | 9.63 | 9.61 | 33.540 | 25.877 | 214.5 | 0.422 | 4.67 | 72.6 | 14.9 | 1.24 | 15.1 | 0.01 | 0.07 | 0.01 | 151 | | |
| 171 | 9.34 | 9.32 | 33.719 | 26.064 | 197.1 | 0.465 | 4.10 | 63.4 | 20.3 | 1.49 | 19.3 | 0.01 | 0.05 | -0.01 | 172 | 208 | |
| 200 | 8.89 | 8.87 | 33.936 | 26.306 | 174.6 | 0.519 | 3.61 | 55.3 | 27.4 | 1.72 | 23.4 | 0.01 | 0.00 | 0.02 | 201 | 207 | |
| 229 | 8.45 | 8.43 | 33.996 | 26.422 | 164.0 | 0.568 | 3.48 | 52.8 | 31.4 | 1.81 | 25.0 | 0.01 | | 230 | 206 | | |
| 250 ISL | 8.12 | 8.09 | 34.010 | 26.483 | 158.5 | 0.602 | 3.25 | 49.0 | 35.0 | 1.92 | 26.7 | 0.01 | | 251 | | | |
| 269 | 7.84 | 7.81 | 34.016 | 26.529 | 154.3 | 0.632 | 2.96 | 44.3 | 38.6 | 2.05 | 28.4 | 0.01 | | 271 | 205 | | |
| 300 ISL | 7.42 | 7.39 | 34.044 | 26.611 | 146.7 | 0.678 | 2.33 | 34.6 | 45.5 | 2.31 | 31.4 | 0.00 | | 302 | | | |
| 320 | 7.18 | 7.15 | 34.065 | 26.662 | 142.1 | 0.707 | 1.92 | 28.3 | 50.1 | 2.47 | 33.3 | 0.00 | | 322 | 204 | | |
| 375 | 6.61 | 6.58 | 34.117 | 26.781 | 131.3 | 0.782 | 1.24 | 18.1 | 60.6 | 2.76 | 36.7 | 0.00 | | 377 | 203 | | |
| 400 ISL | 6.43 | 6.39 | 34.136 | 26.820 | 127.9 | 0.815 | 1.04 | 15.1 | 64.1 | 2.84 | 37.6 | 0.00 | | 403 | | | |
| 440 | 6.20 | 6.16 | 34.165 | 26.873 | 123.2 | 0.865 | 0.80 | 11.5 | 69.1 | 2.94 | 38.8 | 0.00 | | 443 | 202 | | |
| 500 ISL | 5.84 | 5.80 | 34.221 | 26.963 | 115.2 | 0.936 | 0.51 | 7.3 | 78.1 | 3.08 | 40.4 | 0.00 | | 503 | | | |
| 514 | 5.75 | 5.71 | 34.234 | 26.984 | 113.2 | 0.952 | 0.44 | 6.3 | 80.2 | 3.11 | 40.8 | 0.00 | | 517 | 201 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 34 27.1 N | 120 31.6 W | 19/04/01 | 0247 | UTC | 75 m | 310 | 15 kn | | | | | | | | | |
| 0 ISL | 11.21 | 11.21 | 33.831 | 25.828 | 216.0 | 0.000 | 5.17 | 83.4 | 16.0 | 1.22 | 11.8 | 0.18 | 6.18 | 0.99 | 0 | |
| 2 | 11.21 | 11.21 | 33.831 | 25.828 | 216.1 | 0.004 | 5.17 | 83.4 | 16.0 | 1.22 | 11.8 | 0.18 | 6.18 | 0.99 | 2 | 208 |
| 7 | 11.17 | 11.17 | 33.830 | 25.834 | 215.6 | 0.015 | 5.07 | 81.7 | 15.9 | 1.23 | 12.0 | 0.18 | 6.22 | 1.08 | 7 | 207 |
| 10 ISL | 10.97 | 10.97 | 33.836 | 25.875 | 211.8 | 0.022 | 4.58 | 73.5 | 17.6 | 1.36 | 14.0 | 0.22 | 5.05 | 1.01 | 10 | |
| 14 | 10.65 | 10.65 | 33.847 | 25.940 | 205.7 | 0.030 | 3.84 | 61.2 | 20.3 | 1.56 | 17.1 | 0.28 | 3.21 | 0.91 | 14 | 206 |
| 20 ISL | 10.44 | 10.44 | 33.852 | 25.981 | 201.9 | 0.042 | 3.38 | 53.6 | 22.3 | 1.70 | 19.1 | 0.33 | 2.00 | 1.09 | 20 | |
| 24 | 10.34 | 10.34 | 33.857 | 26.002 | 200.0 | 0.050 | 3.22 | 51.0 | 23.5 | 1.75 | 19.9 | 0.34 | 1.61 | 1.22 | 24 | 205 |
| 30 ISL | 10.08 | 10.08 | 33.884 | 26.068 | 193.9 | 0.062 | 2.87 | 45.2 | 26.8 | 1.84 | 22.1 | 0.33 | 1.17 | 1.06 | 30 | |
| 34 | 9.94 | 9.94 | 33.901 | 26.105 | 190.5 | 0.070 | 2.70 | 42.4 | 28.6 | 2.46 | U 23.3 | 0.31 | 1.03 | 0.93 | 34 | 204 |
| 44 | 9.93 | 9.92 | 33.906 | 26.111 | 190.1 | 0.089 | 2.68 | 42.1 | 28.0 | 1.95 | 23.4 | 0.30 | 0.97 | 0.94 | 44 | 203 |
| 50 ISL | 9.91 | 9.90 | 33.911 | 26.118 | 189.5 | 0.100 | 2.66 | 41.7 | 28.2 | 1.96 | 23.5 | 0.29 | 0.96 | 1.07 | 50 | |
| 54 | 9.90 | 9.89 | 33.914 | 26.122 | 189.3 | 0.108 | 2.65 | 41.6 | 28.4 | 1.96 | 23.6 | 0.29 | 0.96 | 1.13 | 54 | 202 |
| 64 | 9.59 | 9.58 | 33.998 | 26.240 | 178.3 | 0.126 | 2.17 | 33.8 | 33.3 | 2.14 | 26.0 | 0.20 | 0.30 | 0.80 | 64 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 34 19.1 N | 120 48.0 W | 19/04/01 | 0543 | UTC | 750 m | 340 | 14 kn | | | | | | | | | |
| 0 ISL | 10.90 | 10.90 | 33.642 | 25.736 | 224.7 | 0.000 | 6.59 | 105.5 | 8.9 | 0.81 | 8.0 | 0.19 | 10.73 | 2.04 | 0 | |
| 2 | 10.90 | 10.90 | 33.642 | 25.736 | 224.8 | 0.004 | 6.59 | 105.5 | 8.9 | 0.81 | 8.0 | 0.19 | 10.73 | 2.04 | 2 | 220 |
| 10 | 10.84 | 10.84 | 33.741 | 25.824 | 216.6 | 0.022 | 6.55 | 104.7 | 11.8 | 0.89 | 9.4 | 0.21 | 13.02 | 2.32 | 10 | 219 |
| 20 | 10.66 | 10.66 | 33.832 | 25.927 | 207.1 | 0.043 | 6.08 | 96.9 | 17.0 | 1.20 | 12.9 | 0.24 | 11.83 | 2.34 | 20 | 218 |
| 30 | 10.49 | 10.49 | 33.835 | 25.959 | 204.2 | 0.064 | 5.74 | 91.1 | 19.1 | 1.31 | 14.9 | 0.26 | 9.33 | 2.26 | 30 | 217 |
| 40 | 10.36 | 10.36 | 33.861 | 26.002 | 200.4 | 0.084 | 5.12 | 81.1 | 23.0 | 1.56 | 18.0 | 0.28 | 5.01 | 1.07 | 40 | 216 |
| 50 | 10.21 | 10.20 | 33.873 | 26.038 | 197.2 | 0.104 | 4.60 | 72.6 | 25.4 | 1.73 | 20.1 | 0.29 | 2.74 | 0.86 | 50 | 215 |
| 60 | 9.97 | 9.96 | 33.874 | 26.079 | 193.5 | 0.124 | 4.01 | 63.0 | 27.3 | 1.84 | 21.9 | 0.30 | 1.14 | 0.61 | 60 | 214 |
| 70 | 9.77 | 9.76 | 33.930 | 26.157 | 186.3 | 0.143 | 3.18 | 49.7 | 30.0 | 2.00 | 24.7 | 0.22 | 0.63 | 0.52 | 70 | 213 |
| 75 ISL | 9.60 | 9.59 | 33.955 | 26.205 | 181.9 | 0.152 | 2.79 | 43.5 | 31.2 | 2.07 | 25.8 | 0.14 | 0.39 | 0.48 | 75 | |
| 84 | 9.30 | 9.29 | 33.992 | 26.283 | 174.6 | 0.168 | 2.28 | 35.3 | 32.9 | 2.15 | 27.3 | 0.02 | 0.08 | 0.43 | 84 | 212 |
| 98 | 9.09 | 9.08 | 34.015 | 26.334 | 169.9 | 0.192 | 2.26 | 34.8 | 34.0 | 2.17 | 27.9 | 0.02 | 0.06 | 0.41 | 99 | 211 |
| 100 ISL | 9.07 | 9.06 | 34.016 | 26.339 | 169.6 | 0.195 | 2.26 | 34.8 | 34.1 | 2.17 | 28.0 | 0.02 | 0.06 | 0.41 | 101 | |
| 119 | 8.92 | 8.91 | 34.030 | 26.374 | 166.6 | 0.227 | 2.25 | 34.5 | 34.8 | 2.19 | 28.5 | 0.02 | 0.05 | 0.44 | 120 | 210 |
| 125 ISL | 8.89 | 8.88 | 34.041 | 26.387 | 165.5 | 0.237 | 2.19 | 33.6 | 35.3 | 2.21 | 28.7 | 0.02 | 0.04 | 0.41 | 126 | |
| 139 | 8.80 | 8.79 | 34.066 | 26.421 | 162.5 | 0.260 | 2.07 | 31.7 | 36.6 | 2.26 | 29.1 | 0.01 | 0.03 | 0.33 | 140 | 209 |
| 150 ISL | 8.70 | 8.68 | 34.075 | 26.444 | 160.5 | 0.278 | 2.11 | 32.2 | 37.4 | 2.28 | 29.4 | 0.01 | 0.03 | 0.32 | 151 | |
| 169 | 8.49 | 8.47 | 34.085 | 26.484 | 157.0 | 0.308 | 2.16 | 32.8 | 39.0 | 2.31 | 30.1 | 0.01 | 0.03 | 0.31 | 170 | 208 |
| 198 | 8.16 | 8.14 | 34.112 | 26.556 | 150.6 | 0.353 | 1.79 | 27.0 | 42.3 | 2.41 | 31.3 | 0.01 | 0.04 | 0.19 | 199 | 207 |
| 200 ISL | 8.15 | 8.13 | 34.114 | 26.559 | 150.3 | 0.356 | 1.78 | 26.9 | 42.5 | 2.42 | 31.4 | 0.01 | | | 201 | |
| 227 | 7.98 | 7.96 | 34.130 | 26.597 | 147.1 | 0.396 | 1.68 | 25.3 | 44.7 | 2.48 | 32.1 | 0.01 | | | 228 | 206 |
| 250 ISL | 7.82 | 7.80 | 34.133 | 26.623 | 145.0 | 0.429 | 1.61 | 24.1 | 46.3 | 2.52 | 32.6 | 0.01 | | | 252 | |
| 268 | 7.68 | 7.65 | 34.136 | 26.646 | 143.1 | 0.455 | 1.54 | 23.0 | 47.8 | 2.55 | 33.1 | 0.01 | | | 270 | 205 |
| 300 ISL | 7.39 | 7.36 | 34.160 | 26.707 | 137.7 | 0.500 | 1.26 | 18.7 | 52.7 | 2.68 | 34.6 | 0.02 | | | 302 | |
| 317 | 7.24 | 7.21 | 34.175 | 26.740 | 134.8 | 0.523 | 1.10 | 16.3 | 55.6 | 2.75 | 35.4 | 0.02 | | | 319 | 204 |
| 377 | 6.80 | 6.76 | 34.217 | 26.834 | 126.5 | 0.602 | 0.76 | 11.1 | 63.2 | 2.92 | 37.2 | 0.01 | | | 380 | 203 |
| 400 ISL | 6.68 | 6.64 | 34.228 | 26.859 | 124.4 | 0.631 | 0.68 | 9.9 | 65.2 | 2.96 | 37.7 | 0.01 | | | 403 | |
| 437 | 6.49 | 6.45 | 34.244 | 26.897 | 121.2 | 0.676 | 0.57 | 8.3 | 68.5 | 3.01 | 38.4 | 0.01 | | | 440 | 202 |
| 500 ISL | 6.02 | 5.98 | 34.277 | 26.984 | 113.3 | 0.750 | 0.39 | 5.6 | 76.8 | 3.13 | 40.1 | 0.00 | | | 504 | |
| 516 | 5.90 | 5.86 | 34.286 | 27.007 | 111.3 | 0.768 | 0.35 | 5.0 | 78.9 | 3.16 | 40.5 | 0.00 | | | 520 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 34 8.7 N | 121 9.7 W | 19/04/01 | 0933 | UTC | 2265 m | 300 | 10 kn | | | | | | | | | |
| 0 ISL | 12.81 | 12.81 | 33.256 | 25.080 | 287.2 | 0.000 | 6.28 | 104.4 | 2.9 | 0.41 | 1.1 | 0.06 | 0.60 | 0.10 | 0 | |
| 2 | 12.81 | 12.81 | 33.256 | 25.080 | 287.2 | 0.006 | 6.28 | 104.4 | 2.9 | 0.41 | 1.1 | 0.06 | 0.60 | 0.10 | 2 | 220 |
| 10 ISL | 12.79 | 12.79 | 33.257 | 25.085 | 286.9 | 0.029 | 6.29 | 104.5 | 2.8 | 0.41 | 1.2 | 0.06 | 0.61 | 0.11 | 10 | |
| 15 | 12.78 | 12.78 | 33.257 | 25.087 | 286.9 | 0.043 | 6.29 | 104.5 | 2.8 | 0.41 | 1.2 | 0.07 | 0.62 | 0.11 | 15 | 219 |
| 20 ISL | 12.74 | 12.74 | 33.263 | 25.100 | 285.8 | 0.057 | 6.29 | 104.4 | 2.8 | 0.42 | 1.3 | 0.08 | 0.68 | 0.13 | 20 | |
| 30 ISL | 12.57 | 12.57 | 33.284 | 25.149 | 281.4 | 0.086 | 6.30 | 104.2 | 2.9 | 0.46 | 1.8 | 0.10 | 0.87 | 0.21 | 30 | |
| 31 | 12.55 | 12.55 | 33.287 | 25.155 | 280.8 | 0.089 | 6.30 | 104.2 | 2.9 | 0.46 | 1.9 | 0.10 | 0.89 | 0.22 | 31 | 218 |
| 46 | 12.05 | 12.04 | 33.338 | 25.291 | 268.3 | 0.130 | 6.31 | 103.3 | 2.8 | 0.56 | 3.3 | 0.15 | 1.24 | 0.40 | 46 | 217 |
| 50 ISL | 11.56 | 11.55 | 33.328 | 25.374 | 260.4 | 0.140 | 5.85 | 94.8 | 5.9 | 0.73 | 6.0 | 0.14 | 0.92 | 0.36 | 50 | |
| 54 | 11.06 | 11.05 | 33.325 | 25.462 | 252.1 | 0.151 | 5.41 | 86.7 | 9.0 | 0.90 | 8.7 | 0.12 | 0.63 | 0.31 | 54 | 216 |
| 64 | 10.50 | 10.49 | 33.390 | 25.611 | 238.0 | 0.175 | 5.38 | 85.2 | 10.1 | 1.02 | 10.3 | 0.09 | 0.90 | 0.37 | 64 | 215 |
| 75 | 9.97 | 9.96 | 33.383 | 25.696 | 230.1 | 0.201 | 4.93 | 77.2 | 14.1 | 1.21 | 13.6 | 0.09 | 0.50 | 0.35 | 75 | 214 |
| 84 | 9.64 | 9.63 | 33.489 | 25.834 | 217.2 | 0.221 | 4.48 | 69.7 | 17.7 | 1.39 | 16.7 | 0.10 | 0.42 | 0.28 | 84 | 213 |
| 94 | 9.77 | 9.76 | 33.632 | 25.924 | 208.9 | 0.242 | 4.05 | 63.2 | 20.6 | 1.55 | 19.2 | 0.10 | 0.20 | 0.29 | 94 | 212 |
| 100 ISL | 9.77 | 9.76 | 33.693 | 25.972 | 204.5 | 0.255 | 3.81 | 59.5 | 22.3 | 1.64 | 20.3 | 0.10 | 0.19 | 0.30 | 101 | |
| 109 | 9.76 | 9.75 | 33.788 | 26.048 | 197.5 | 0.273 | 3.42 | 53.4 | 25.1 | 1.77 | 22.0 | 0.08 | 0.17 | 0.31 | 110 | 211 |
| 124 | 9.49 | 9.48 | 33.936 | 26.209 | 182.5 | 0.301 | 2.54 | 39.5 | 30.4 | 2.02 | 25.6 | 0.02 | 0.09 | 0.35 | 125 | 210 |
| 125 ISL | 9.47 | 9.46 | 33.938 | 26.214 | 182.1 | 0.303 | 2.55 | 39.6 | 30.5 | 2.02 | 25.6 | 0.02 | 0.09 | 0.35 | 126 | |
| 144 | 9.09 | 9.07 | 33.952 | 26.286 | 175.5 | 0.337 | 2.73 | 42.0 | 31.4 | 2.01 | 26.2 | 0.02 | 0.07 | 0.34 | 145 | 209 |
| 150 ISL | 9.09 | 9.07 | 33.983 | 26.310 | 173.3 | 0.347 | 2.54 | 39.1 | 32.7 | 2.07 | 26.8 | 0.02 | 0.06 | 0.33 | 151 | |
| 169 | 9.10 | 9.08 | 34.076 | 26.382 | 166.9 | 0.380 | 1.86 | 28.7 | 37.1 | 2.28 | 28.9 | 0.01 | 0.05 | 0.30 | 170 | 208 |
| 200 | 8.66 | 8.64 | 34.089 | 26.462 | 159.8 | 0.430 | 2.00 | 30.5 | 39.1 | 2.30 | 29.7 | 0.00 | 0.03 | 0.37 | 201 | 207 |
| 228 | 8.06 | 8.04 | 34.061 | 26.531 | 153.4 | 0.474 | 2.21 | 33.3 | 41.2 | 2.29 | 30.5 | 0.00 | | | 229 | 206 |
| 250 ISL | 7.65 | 7.63 | 34.045 | 26.579 | 149.1 | 0.508 | 2.22 | 33.1 | 43.8 | 2.32 | 31.2 | 0.00 | | | 252 | |
| 269 | 7.37 | 7.34 | 34.043 | 26.617 | 145.6 | 0.536 | 2.22 | 32.9 | 46.6 | 2.35 | 31.9 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.14 | 7.11 | 34.091 | 26.688 | 139.3 | 0.580 | 1.77 | 26.1 | 52.1 | 2.54 | 33.8 | 0.00 | | | 302 | |
| 319 | 7.05 | 7.02 | 34.126 | 26.728 | 135.8 | 0.606 | 1.44 | 21.2 | 55.5 | 2.66 | 35.0 | 0.00 | | | 321 | 204 |
| 379 | 6.68 | 6.65 | 34.165 | 26.809 | 128.8 | 0.685 | 0.98 | 14.3 | 63.1 | 2.84 | 37.0 | 0.00 | | | 3 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|----------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 49.0 N | 121 50.4 W | 19/04/01 | 1812 | UTC | 3627 m | 200 | 10 kn | 240 03 06 | 1 | 1016.2 mb | 13.9 C | 12.1 C | 13m | 7/8 | NS | |
| 0 ISL | 13.15 | 13.15 | 33.287 | 25.037 | 291.3 | 0.000 | 6.39 | 107.0 | 1.7 | 0.43 | 1.2 | 0.07 | 1.15 | 0.22 | 0 | |
| 2 B | 13.15 | 13.15 | 33.287 | 25.037 | 291.3 | 0.006 | 6.39 | 107.0 | 1.7 | 0.43 | 1.2 | 0.07 | 1.15 | 0.22 | 2 | 222 |
| 7 B | 13.13 | 13.13 | 33.285 | 25.039 | 291.2 | 0.020 | 6.42 | 107.5 | 1.7 | 0.42 | 1.1 | 0.07 | 1.06 | 0.28 | 7 | 221 |
| 10 ISL | 13.08 | 13.08 | 33.280 | 25.046 | 290.7 | 0.029 | 6.40 | 107.0 | 1.8 | 0.42 | 1.1 | 0.07 | 1.03 | 0.26 | 10 | |
| 16 B | 12.92 | 12.92 | 33.268 | 25.068 | 288.7 | 0.046 | 6.37 | 106.2 | 2.1 | 0.42 | 1.2 | 0.07 | 0.99 | 0.21 | 16 | 220 |
| 20 ISL | 12.74 | 12.74 | 33.260 | 25.097 | 286.0 | 0.058 | 6.30 | 104.6 | 2.4 | 0.45 | 1.4 | 0.08 | 0.93 | 0.22 | 20 | |
| 27 B | 12.48 | 12.48 | 33.260 | 25.148 | 281.4 | 0.078 | 6.18 | 102.0 | 2.9 | 0.49 | 1.8 | 0.11 | 0.82 | 0.24 | 27 | 219 |
| 30 ISL | 12.49 | 12.49 | 33.279 | 25.161 | 280.3 | 0.086 | 6.17 | 101.9 | 2.9 | 0.49 | 1.8 | 0.12 | 0.80 | 0.26 | 30 | |
| 35 B | 12.50 | 12.50 | 33.303 | 25.177 | 278.8 | 0.100 | 6.15 | 101.6 | 3.0 | 0.49 | 1.9 | 0.14 | 0.76 | 0.29 | 35 | 218 |
| 42 | 12.56 | 12.55 | 33.343 | 25.197 | 277.1 | 0.120 | 6.18 | 102.3 | 2.7 | 0.48 | 1.7 | 0.13 | 0.62 | 0.27 | 42 | 217 |
| 49 B | 12.31 | 12.30 | 33.376 | 25.271 | 270.3 | 0.139 | 6.02 | 99.1 | 4.2 | 0.62 | 3.3 | 0.18 | 0.66 | 0.29 | 49 | 216 |
| 50 ISL | 12.29 | 12.28 | 33.381 | 25.279 | 269.5 | 0.142 | 6.00 | 98.7 | 4.4 | 0.64 | 3.5 | 0.19 | 0.67 | 0.31 | 50 | |
| 55 | 12.18 | 12.17 | 33.408 | 25.321 | 265.7 | 0.155 | 5.90 | 96.9 | 5.5 | 0.71 | 4.4 | 0.22 | 0.73 | 0.44 | 55 | 215 |
| 60 | 12.03 | 12.02 | 33.437 | 25.372 | 260.9 | 0.168 | 5.70 | 93.3 | 7.0 | 0.80 | 5.7 | 0.27 | 0.69 | 0.53 | 60 | 214 |
| 71 | 11.41 | 11.40 | 33.491 | 25.529 | 246.2 | 0.196 | 5.27 | 85.2 | 11.2 | 1.03 | 9.7 | 0.25 | 0.39 | 0.37 | 71 | 213 |
| 75 ISL | 10.99 | 10.98 | 33.475 | 25.592 | 240.2 | 0.206 | 5.09 | 81.5 | 12.4 | 1.10 | 11.2 | 0.19 | 0.30 | 0.32 | 75 | |
| 86 | 9.93 | 9.92 | 33.446 | 25.752 | 225.1 | 0.231 | 4.63 | 72.4 | 14.9 | 1.27 | 14.9 | 0.03 | 0.14 | 0.22 | 86 | 212 |
| 100 | 9.67 | 9.66 | 33.555 | 25.881 | 213.1 | 0.262 | 4.25 | 66.1 | 17.3 | 1.41 | 17.2 | 0.02 | 0.12 | A 0.22 A | 101 | 211 |
| 120 | 9.72 | 9.71 | 33.789 | 26.056 | 196.9 | 0.303 | 3.17 | 49.5 | 24.3 | 1.78 | 22.6 | 0.01 | 0.13 | A 0.22 A | 121 | 210 |
| 125 ISL | 9.62 | 9.61 | 33.826 | 26.101 | 192.7 | 0.313 | 3.03 | 47.2 | 25.7 | 1.84 | 23.6 | 0.01 | 0.12 | 0.21 | 126 | |
| 140 | 9.24 | 9.22 | 33.906 | 26.226 | 181.1 | 0.341 | 2.78 | 42.9 | 29.3 | 1.97 | 25.8 | 0.01 | 0.08 | 0.16 | 141 | 209 |
| 150 ISL | 9.06 | 9.04 | 33.943 | 26.284 | 175.8 | 0.359 | 2.68 | 41.2 | 30.9 | 2.02 | 26.7 | 0.01 | 0.06 | 0.13 | 151 | |
| 170 | 8.74 | 8.72 | 33.991 | 26.372 | 167.7 | 0.393 | 2.58 | 39.4 | 33.5 | 2.07 | 27.7 | 0.00 | 0.04 | 0.10 | 171 | 208 |
| 200 | 8.27 | 8.25 | 34.029 | 26.474 | 158.4 | 0.442 | 2.45 | 37.1 | 37.9 | 2.17 | 29.1 | 0.00 | 0.03 | 0.10 | 201 | 207 |
| 230 | 7.84 | 7.82 | 34.047 | 26.553 | 151.3 | 0.488 | 2.27 | 34.0 | 42.3 | 2.28 | 30.8 | 0.01 | | 231 | 206 | |
| 250 ISL | 7.63 | 7.61 | 34.066 | 26.598 | 147.3 | 0.518 | 2.05 | 30.6 | 45.4 | 2.38 | 31.8 | 0.01 | | 251 | | |
| 269 | 7.44 | 7.41 | 34.082 | 26.638 | 143.7 | 0.546 | 1.83 | 27.2 | 48.4 | 2.48 | 32.8 | 0.00 | | 271 | 205 | |
| 300 ISL | 7.04 | 7.01 | 34.086 | 26.697 | 138.3 | 0.590 | 1.64 | 24.1 | 53.4 | 2.59 | 34.3 | 0.00 | | 302 | | |
| 320 | 6.77 | 6.74 | 34.086 | 26.734 | 135.0 | 0.617 | 1.53 | 22.4 | 56.8 | 2.65 | 35.3 | 0.00 | | 322 | 204 | |
| 377 | 6.15 | 6.12 | 34.107 | 26.832 | 126.1 | 0.691 | 1.07 | 15.4 | 67.2 | 2.86 | 38.3 | 0.00 | | 379 | 203 | |
| 400 ISL | 5.96 | 5.93 | 34.117 | 26.864 | 123.2 | 0.720 | 0.93 | 13.3 | 70.9 | 2.92 | 39.1 | 0.00 | | 403 | | |
| 438 | 5.73 | 5.69 | 34.144 | 26.915 | 118.7 | 0.766 | 0.73 | 10.4 | 76.1 | 3.01 | 40.1 | 0.00 | | 441 | 202 | |
| 500 ISL | 5.70 | 5.66 | 34.242 | 26.996 | 111.8 | 0.837 | 0.41 | 5.8 | 81.4 | 3.14 | 40.9 | 0.00 | | 503 | | |
| 511 | 5.69 | 5.65 | 34.259 | 27.011 | 110.6 | 0.850 | 0.35 | 5.0 | 82.3 | 3.16 | 41.0 | 0.00 | | 515 | 201 | |

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

B) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 29.1 N | 122 31.8 W | 19/04/01 | 2355 | UTC | 3979 m | 280 | 17 kn | 240 03 05 | 1 | 1014.2 mb | 14.0 C | 12.3 C | 19m | 7/8 | ST | |
| 0 ISL | 13.68 | 13.68 | 33.228 | 24.884 | 305.8 | 0.000 | 6.23 | 105.5 | 2.1 | 0.36 | 0.4 | 0.03 | 0.63 | 0.06 | 0 | |
| 1 | 13.68 | 13.68 | 33.228 | 24.885 | 305.8 | 0.003 | 6.23 | 105.5 | 2.1 | 0.36 | 0.4 | 0.03 | 0.63 | 0.06 | 1 | 220 |
| 10 ISL | 13.65 | 13.65 | 33.226 | 24.889 | 305.6 | 0.031 | 6.23 | 105.4 | 2.1 | 0.35 | 0.4 | 0.03 | 0.60 | 0.06 | 10 | |
| 16 | 13.63 | 13.63 | 33.225 | 24.893 | 305.4 | 0.049 | 6.23 | 105.3 | 2.1 | 0.35 | 0.4 | 0.03 | 0.58 | 0.06 | 16 | 219 |
| 20 ISL | 13.48 | 13.48 | 33.215 | 24.916 | 303.4 | 0.061 | 6.22 | 104.8 | 2.3 | 0.35 | 0.3 | 0.03 | 0.51 | 0.07 | 20 | |
| 30 | 13.07 | 13.07 | 33.197 | 24.984 | 297.1 | 0.091 | 6.21 | 103.8 | 3.0 | 0.35 | 0.2 | 0.02 | 0.38 | 0.10 | 30 | 218 |
| 45 | 12.86 | 12.85 | 33.225 | 25.047 | 291.5 | 0.135 | 6.12 | 101.8 | 3.4 | 0.41 | 0.9 | 0.07 | 0.59 | 0.16 | 45 | 217 |
| 50 ISL | 12.78 | 12.77 | 33.263 | 25.093 | 287.3 | 0.150 | 6.29 | 104.5 | 2.2 | 0.38 | 0.7 | 0.07 | 0.78 | 0.20 | 50 | |
| 55 | 12.70 | 12.69 | 33.302 | 25.139 | 283.0 | 0.164 | 6.46 | 107.2 | 1.0 | 0.35 | 0.5 | 0.07 | 1.01 | 0.29 | 55 | 216 |
| 66 | 12.57 | 12.56 | 33.347 | 25.199 | 277.6 | 0.195 | 6.41 | 106.1 | 1.0 | 0.40 | 1.0 | 0.10 | 1.67 | 0.74 | 66 | 215 |
| 75 | 12.47 | 12.46 | 33.373 | 25.239 | 274.0 | 0.220 | 6.16 | 101.7 | 2.5 | 0.51 | 2.1 | 0.14 | 1.52 | 0.89 | 75 | 214 |
| 85 | 12.45 | 12.44 | 33.376 | 25.245 | 273.7 | 0.247 | 6.10 | 100.7 | 2.9 | 0.52 | 2.3 | 0.15 | 1.26 | 0.73 | 85 | 213 |
| 94 | 11.90 | 11.89 | 33.322 | 25.307 | 267.9 | 0.271 | 5.79 | 94.5 | 5.7 | 0.67 | 4.5 | 0.16 | 1.14 | 0.60 | 94 | 212 |
| 100 ISL | 11.26 | 11.25 | 33.289 | 25.399 | 259.1 | 0.287 | 5.57 | 89.6 | 7.7 | 0.80 | 6.8 | 0.11 | 0.77 | 0.49 | 100 | |
| 109 | 10.28 | 10.27 | 33.288 | 25.571 | 242.9 | 0.310 | 5.22 | 82.2 | 10.8 | 1.01 | 10.5 | 0.03 | 0.20 | 0.33 | 110 | 211 |
| 125 | 9.40 | 9.39 | 33.486 | 25.871 | 214.5 | 0.346 | 4.59 | 71.0 | 16.4 | 1.33 | 16.1 | 0.01 | 0.06 | 0.12 | 126 | 210 |
| 144 | 9.18 | 9.16 | 33.767 | 26.127 | 190.6 | 0.385 | 3.62 | 55.8 | 24.2 | 1.69 | 22.1 | 0.00 | 0.03 | 0.06 | 145 | 209 |
| 150 ISL | 9.11 | 9.09 | 33.813 | 26.174 | 186.2 | 0.396 | 3.60 | 55.4 | 25.2 | 1.70 | 22.7 | 0.00 | 0.02 | 0.06 | 151 | |
| 169 | 8.88 | 8.86 | 33.901 | 26.280 | 176.5 | 0.431 | 3.53 | 54.1 | 27.3 | 1.74 | 23.5 | 0.00 | 0.01 | 0.07 | 170 | 208 |
| 199 | 8.39 | 8.37 | 34.008 | 26.440 | 161.7 | 0.481 | 2.83 | 42.9 | 35.0 | 2.03 | 27.6 | 0.01 | | 200 | 207 | |
| 200 ISL | 8.38 | 8.36 | 34.010 | 26.443 | 161.4 | 0.483 | 2.81 | 42.6 | 35.2 | 2.04 | 27.7 | 0.01 | | 201 | | |
| 229 | 8.05 | 8.03 | 34.042 | 26.518 | 154.7 | 0.529 | 2.39 | 36.0 | 40.0 | 2.21 | 29.8 | 0.00 | | 230 | 206 | |
| 250 ISL | 7.80 | 7.78 | 34.058 | 26.567 | 150.3 | 0.561 | 2.12 | 31.7 | 43.5 | 2.33 | 31.2 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|--------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 | 9.4 N | 123 13.0 W | 20/04/01 | 0646 | UTC | 4224 m | 310 | 24 kn | | 1016.6 mb | 12.5 C | 10.0 C | | | | |
| 0 | ISL | 13.88 | 13.88 | 33.240 | 24.853 | 308.8 | 0.000 | 6.16 | 104.7 | 3.1 | 0.33 | 0.0 | 0.00 | 0.21 | 0.04 | 0 |
| 3 | | 13.88 | 13.88 | 33.240 | 24.853 | 308.9 | 0.009 | 6.16 | 104.7 | 3.1 | 0.33 | 0.0 | 0.00 | 0.21 | 0.04 | 3 220 |
| 10 | ISL | 13.88 | 13.88 | 33.240 | 24.853 | 309.0 | 0.031 | 6.16 | 104.7 | 3.1 | 0.34 | 0.0 | 0.00 | 0.22 | 0.04 | 10 |
| 16 | | 13.88 | 13.88 | 33.241 | 24.854 | 309.1 | 0.049 | 6.16 | 104.7 | 3.1 | 0.34 | 0.0 | 0.00 | 0.22 | 0.04 | 16 219 |
| 20 | ISL | 13.73 | 13.73 | 33.249 | 24.891 | 305.7 | 0.062 | 6.20 | 105.1 | 3.1 | 0.34 | 0.0 | 0.00 | 0.24 | 0.04 | 20 |
| 29 | | 13.35 | 13.35 | 33.267 | 24.982 | 297.3 | 0.089 | 6.28 | 105.6 | 3.0 | 0.33 | 0.0 | 0.00 | 0.32 | 0.05 | 29 218 |
| 30 | ISL | 13.35 | 13.35 | 33.267 | 24.982 | 297.3 | 0.092 | 6.28 | 105.6 | 3.0 | 0.33 | 0.0 | 0.00 | 0.34 | 0.05 | 30 |
| 44 | | 13.19 | 13.18 | 33.264 | 25.012 | 294.8 | 0.133 | 6.13 | 102.7 | 3.3 | 0.37 | 0.3 | 0.03 | 0.69 | 0.15 | 44 217 |
| 50 | ISL | 12.91 | 12.90 | 33.272 | 25.074 | 289.1 | 0.151 | 6.02 | 100.3 | 3.9 | 0.45 | 1.3 | 0.12 | 0.86 | 0.25 | 50 |
| 56 | | 12.45 | 12.44 | 33.288 | 25.176 | 279.5 | 0.168 | 5.83 | 96.2 | 5.2 | 0.57 | 3.1 | 0.19 | 0.93 | 0.32 | 56 216 |
| 66 | | 11.17 | 11.16 | 33.346 | 25.459 | 252.6 | 0.194 | 5.27 | 84.7 | 9.4 | 0.91 | 8.9 | 0.08 | 0.60 | 0.26 | 66 215 |
| 75 | | 10.49 | 10.48 | 33.417 | 25.634 | 236.1 | 0.216 | 4.75 | 75.2 | 13.3 | 1.17 | 13.3 | 0.03 | 0.32 | 0.20 | 75 214 |
| 86 | | 9.88 | 9.87 | 33.491 | 25.796 | 220.9 | 0.242 | 4.33 | 67.7 | 17.1 | 1.38 | 16.7 | 0.02 | 0.24 | 0.15 | 86 213 |
| 96 | | 9.42 | 9.41 | 33.529 | 25.901 | 211.0 | 0.263 | 4.23 | 65.5 | 19.4 | 1.49 | 18.4 | 0.01 | 0.13 | 0.11 | 96 212 |
| 100 | ISL | 9.41 | 9.40 | 33.567 | 25.933 | 208.1 | 0.272 | 4.12 | 63.8 | 20.3 | 1.53 | 19.1 | 0.01 | 0.11 | 0.10 | 100 |
| 110 | | 9.39 | 9.38 | 33.653 | 26.003 | 201.6 | 0.292 | 3.79 | 58.7 | 22.4 | 1.64 | 20.9 | 0.01 | 0.07 | 0.08 | 111 211 |
| 125 | ISL | 9.28 | 9.27 | 33.781 | 26.121 | 190.7 | 0.321 | 3.36 | 51.9 | 25.7 | 1.78 | 23.2 | 0.01 | 0.03 | 0.06 | 126 |
| 126 | | 9.27 | 9.26 | 33.788 | 26.129 | 190.1 | 0.323 | 3.34 | 51.6 | 25.9 | 1.79 | 23.3 | 0.01 | 0.03 | 0.06 | 127 210 |
| 144 | | 9.06 | 9.04 | 33.872 | 26.228 | 180.9 | 0.357 | 3.12 | 48.0 | 28.8 | 1.89 | 25.0 | 0.00 | 0.02 | 0.06 | 145 209 |
| 150 | ISL | 8.99 | 8.97 | 33.897 | 26.259 | 178.1 | 0.368 | 3.05 | 46.9 | 29.7 | 1.92 | 25.5 | 0.00 | 0.02 | 0.06 | 151 |
| 169 | | 8.75 | 8.73 | 33.960 | 26.346 | 170.1 | 0.401 | 2.87 | 43.9 | 32.4 | 1.99 | 26.8 | 0.00 | 0.01 | 0.06 | 170 208 |
| 199 | | 8.37 | 8.35 | 34.005 | 26.440 | 161.7 | 0.450 | 2.74 | 41.5 | 35.8 | 2.07 | 28.2 | 0.00 | 0.01 | 0.05 | 200 207 |
| 200 | ISL | 8.36 | 8.34 | 34.006 | 26.443 | 161.5 | 0.452 | 2.73 | 41.4 | 35.9 | 2.07 | 28.3 | 0.00 | | | 201 |
| 230 | | 8.03 | 8.01 | 34.042 | 26.521 | 154.4 | 0.499 | 2.36 | 35.5 | 40.8 | 2.22 | 30.2 | 0.00 | | | 231 206 |
| 250 | ISL | 7.74 | 7.72 | 34.057 | 26.575 | 149.5 | 0.530 | 2.15 | 32.1 | 44.4 | 2.32 | 31.4 | 0.00 | | | 251 |
| 270 | | 7.45 | 7.42 | 34.067 | 26.625 | 145.0 | 0.559 | 1.96 | 29.1 | 48.1 | 2.42 | 32.6 | 0.00 | | | 272 205 |
| 300 | ISL | 7.07 | 7.04 | 34.073 | 26.683 | 139.7 | 0.602 | 1.74 | 25.6 | 52.8 | 2.55 | 34.1 | 0.00 | | | 302 |
| 318 | | 6.86 | 6.83 | 34.076 | 26.714 | 136.9 | 0.627 | 1.62 | 23.7 | 55.6 | 2.62 | 35.0 | 0.00 | | | 320 204 |
| 375 | | 6.24 | 6.21 | 34.106 | 26.820 | 127.3 | 0.702 | 1.10 | 15.9 | 66.3 | 2.84 | 38.0 | 0.00 | | | 377 203 |
| 400 | ISL | 6.05 | 6.02 | 34.128 | 26.862 | 123.5 | 0.733 | 0.92 | 13.2 | 70.5 | 2.92 | 39.0 | 0.00 | | | 403 |
| 438 | | 5.83 | 5.79 | 34.164 | 26.918 | 118.5 | 0.779 | 0.69 | 9.9 | 76.1 | 3.02 | 40.3 | 0.00 | | | 441 202 |
| 500 | ISL | 5.58 | 5.54 | 34.216 | 26.990 | 112.2 | 0.851 | 0.45 | 6.4 | 83.1 | 3.13 | 41.2 | 0.00 | | | 503 |
| 517 | | 5.51 | 5.47 | 34.231 | 27.011 | 110.4 | 0.870 | 0.38 | 5.4 | 85.0 | 3.16 | 41.5 | 0.00 | | | 521 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 47.8 N | 123 55.6 W | 20/04/01 | 1733 | UTC | 4242 m | 340 | 25 kn | 330 15 10 | 1 | 1020.5 mb | 12.4 C | 10.3 C | 18m | 1/8 | ST |
| 0 | ISL | 13.53 | 13.53 | 33.145 | 24.851 | 309.0 | 0.000 | 6.18 | 104.2 | 3.2 | 0.35 | 0.0 | 0.00 | 0.39 | 0.06 | 0 |
| 2 | A | 13.53 | 13.53 | 33.145 | 24.851 | 309.0 | 0.006 | 6.18 | 104.2 | 3.2 | 0.35 | 0.0 | 0.00 | 0.39 | 0.06 | 2 221 |
| 10 | ISL | 13.52 | 13.52 | 33.145 | 24.853 | 309.0 | 0.031 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.38 | 0.05 | 10 |
| 11 | A | 13.52 | 13.52 | 33.145 | 24.853 | 309.1 | 0.034 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.38 | 0.05 | 11 220 |
| 20 | ISL | 13.52 | 13.52 | 33.146 | 24.854 | 309.2 | 0.062 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.39 | 0.06 | 20 |
| 23 | A | 13.52 | 13.52 | 33.146 | 24.854 | 309.3 | 0.071 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.40 | 0.07 | 23 219 |
| 30 | ISL | 13.36 | 13.36 | 33.159 | 24.897 | 305.4 | 0.093 | 6.21 | 104.4 | 3.1 | 0.34 | 0.1 | 0.00 | 0.42 | 0.08 | 30 |
| 37 | A | 13.15 | 13.14 | 33.171 | 24.948 | 300.7 | 0.114 | 6.23 | 104.3 | 3.1 | 0.35 | 0.1 | 0.00 | 0.45 | 0.10 | 37 218 |
| 47 | A | 12.89 | 12.88 | 33.169 | 24.998 | 296.2 | 0.144 | 6.22 | 103.5 | 3.0 | 0.38 | 0.4 | 0.03 | 0.56 | 0.13 | 47 217 |
| 50 | ISL | 12.94 | 12.93 | 33.196 | 25.009 | 295.2 | 0.153 | 6.22 | 103.7 | 2.8 | 0.37 | 0.4 | 0.03 | 0.58 | 0.13 | 50 |
| 56 | | 13.03 | 13.02 | 33.257 | 25.039 | 292.6 | 0.170 | 6.20 | 103.5 | 2.4 | 0.36 | 0.4 | 0.04 | 0.64 | 0.16 | 56 216 |
| 66 | A | 12.79 | 12.78 | 33.306 | 25.124 | 284.7 | 0.199 | 6.15 | 102.2 | 2.4 | 0.43 | 1.3 | 0.11 | 0.97 | 0.33 | 66 215 |
| 75 | | 12.19 | 12.18 | 33.303 | 25.238 | 274.1 | 0.224 | 5.75 | 94.4 | 5.8 | 0.63 | 4.2 | 0.30 | 0.80 | 0.38 | 75 214 |
| 85 | | 11.64 | 11.63 | 33.364 | 25.388 | 259.9 | 0.251 | 5.40 | 87.6 | 8.5 | 0.84 | 7.9 | 0.13 | 0.48 | 0.27 | 85 213 |
| 94 | | 10.48 | 10.47 | 33.357 | 25.590 | 240.8 | 0.273 | 5.00 | 79.1 | 11.6 | 1.08 | 11.8 | 0.04 | 0.22 | 0.19 | 94 212 |
| 100 | ISL | 10.09 | 10.08 | 33.422 | 25.707 | 229.7 | 0.288 | 4.75 | 74.6 | 13.5 | 1.19 | 13.8 | 0.03 | 0.14 | 0.16 | 100 |
| 110 | | 9.78 | 9.77 | 33.552 | 25.860 | 215.3 | 0.310 | 4.37 | 68.2 | 16.4 | 1.34 | 16.5 | 0.02 | 0.08 | 0.13 | 111 211 |
| 125 | | 9.48 | 9.47 | 33.634 | 25.974 | 204.7 | 0.341 | 3.86 | 59.9 | 20.8 | 1.59 | 20.1 | 0.01 | 0.04 | 0.11 | 126 210 |
| 143 | | 9.21 | 9.19 | 33.773 | 26.127 | 190.6 | 0.377 | 3.51 | 54.1 | 24.7 | 1.72 | 22.7 | 0.01 | 0.07 | 0.05 | 144 209 |
| 150 | ISL | 9.10 | 9.08 | 33.830 | 26.189 | 184.8 | 0.390 | 3.38 | 52.0 | 26.3 | 1.77 | 23.6 | 0.01 | 0.07 | 0.04 | 151 |
| 169 | | 8.81 | 8.79 | 33.957 | 26.334 | 171.3 | 0.424 | 3.10 | 47.4 | 30.4 | 1.89 | 25.6 | 0.00 | 0.05 | 0.03 | 170 208 |
| 200 | | 8.38 | 8.36 | 33.994 | 26.430 | 162.6 | 0.476 | 2.95 | 44.7 | 34.4 | 1.99 | 27.2 | 0.00 | 0.05 | 0.00 | 201 207 |
| 230 | | 8.04 | 8.02 | 34.017 | 26.500 | 156.4 | 0.523 | 2.67 | 40.2 | 38.5 | 2.11 | 29.0 | 0.00 | | | 231 206 |
| 250 | ISL | 7.79 | 7.77 | 34.026 | 26.544 | 152.5 | 0.554 | 2.46 | 36.8 | 41.6 | 2.21 | 30.4 | 0.00 | | | 251 |
| 268 | | 7.57 | 7.54 | 3 | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 82 47

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.11 | 12.11 | 33.798 | 25.635 | 234.3 | 0.000 | 8.19 | 134.6 | 1.5 | 0.28 | 0.0 | 0.01 | 15.03 | 4.12 | 0 | |
| 2 A | 12.11 | 12.11 | 33.798 | 25.635 | 234.4 | 0.005 | 8.19 | 134.6 | 1.5 | 0.28 | 0.0 | 0.01 | 15.03 | 4.12 | 2 | 224 |
| 10 | 11.00 | 11.00 | 33.844 | 25.876 | 211.7 | 0.023 | 5.71 | 91.7 | 12.6 | 1.00 | 8.6 | 0.13 | 19.14 | 3.46 | 10 | 223 |
| 20 | 9.84 | 9.84 | 33.956 | 26.164 | 184.5 | 0.042 | 2.70 | 42.3 | 29.2 | 2.00 | 24.3 | 0.15 | 2.34 | 0.93 | 20 | 222 |
| 30 | 9.70 | 9.70 | 34.002 | 26.224 | 179.1 | 0.061 | 2.26 | 35.3 | 31.6 | 2.10 | 26.0 | 0.04 | 0.56 | 0.55 | 30 | 221 |
| 39 | 9.64 | 9.64 | 34.016 | 26.245 | 177.3 | 0.077 | 2.21 | 34.5 | 32.1 | 2.13 | 26.4 | 0.03 | 0.29 | 0.43 | 39 | 220 |
| 50 | 9.52 | 9.51 | 34.037 | 26.281 | 174.0 | 0.096 | 2.11 | 32.8 | 33.0 | 2.16 | 26.9 | 0.02 | 0.10 | 0.44 | 50 | 219 |
| 60 | 9.40 | 9.39 | 34.046 | 26.308 | 171.7 | 0.113 | 2.07 | 32.1 | 33.9 | 2.19 | 27.4 | 0.02 | 0.09 | 0.52 | 60 | 218 |
| 70 | 9.29 | 9.28 | 34.081 | 26.354 | 167.6 | 0.130 | 1.96 | 30.4 | 35.5 | 2.24 | 28.0 | 0.02 | 0.06 | 0.37 | 70 | 217 |
| 75 ISL | 9.26 | 9.25 | 34.089 | 26.365 | 166.6 | 0.138 | 1.92 | 29.7 | 35.9 | 2.25 | 28.2 | 0.02 | 0.06 | 0.35 | 75 | |
| 86 | 9.17 | 9.16 | 34.095 | 26.384 | 165.0 | 0.157 | 1.86 | 28.7 | 36.7 | 2.27 | 28.5 | 0.02 | 0.05 | 0.30 | 87 | 216 |
| 98 | 8.99 | 8.98 | 34.096 | 26.414 | 162.4 | 0.176 | 1.81 | 27.8 | 38.1 | 2.32 | 29.1 | 0.01 | 0.06 | 0.32 | 99 | 215 |
| 100 ISL | 8.97 | 8.96 | 34.098 | 26.419 | 162.0 | 0.180 | 1.80 | 27.7 | 38.3 | 2.33 | 29.2 | 0.01 | 0.06 | 0.32 | 101 | |
| 119 | 8.84 | 8.83 | 34.117 | 26.454 | 158.9 | 0.210 | 1.67 | 25.6 | 40.4 | 2.39 | 30.1 | 0.01 | 0.03 | 0.29 | 120 | 214 |
| 125 ISL | 8.79 | 8.78 | 34.121 | 26.465 | 158.0 | 0.220 | 1.63 | 25.0 | 40.9 | 2.40 | 30.2 | 0.01 | 0.03 | 0.29 | 126 | |
| 139 | 8.69 | 8.68 | 34.129 | 26.487 | 156.2 | 0.242 | 1.54 | 23.5 | 42.2 | 2.43 | 30.5 | 0.01 | 0.03 | 0.31 | 140 | 213 |
| 150 ISL | 8.62 | 8.60 | 34.135 | 26.503 | 154.9 | 0.259 | 1.48 | 22.6 | 43.3 | 2.46 | 30.8 | 0.01 | 0.03 | 0.35 | 151 | |
| 169 | 8.48 | 8.46 | 34.147 | 26.534 | 152.2 | 0.288 | 1.35 | 20.5 | 45.6 | 2.52 | 31.5 | 0.01 | 0.04 | 0.40 | 170 | 212 |
| 199 | 8.19 | 8.17 | 34.171 | 26.598 | 146.7 | 0.333 | 1.05 | 15.9 | 50.5 | 2.66 | 32.6 | 0.01 | 0.03 | 0.26 | 200 | 211 |
| 200 ISL | 8.18 | 8.16 | 34.171 | 26.599 | 146.5 | 0.334 | 1.05 | 15.9 | 50.6 | 2.66 | 32.6 | 0.01 | | | 201 | |
| 228 | 8.02 | 8.00 | 34.181 | 26.631 | 144.0 | 0.375 | 1.00 | 15.1 | 52.5 | 2.71 | 33.2 | 0.01 | | | 229 | 210 |
| 250 ISL | 7.81 | 7.79 | 34.188 | 26.668 | 140.8 | 0.406 | 0.91 | 13.6 | 55.2 | 2.77 | 33.8 | 0.00 | | | 252 | |
| 269 | 7.63 | 7.60 | 34.193 | 26.698 | 138.1 | 0.433 | 0.83 | 12.4 | 57.7 | 2.82 | 34.3 | 0.00 | | | 271 | 209 |
| 300 ISL | 7.43 | 7.40 | 34.199 | 26.732 | 135.4 | 0.475 | 0.73 | 10.8 | 60.8 | 2.87 | 34.8 | 0.00 | | | 302 | |
| 317 | 7.32 | 7.29 | 34.202 | 26.750 | 133.9 | 0.498 | 0.67 | 9.9 | 63.0 | 2.91 | 34.9 | 0.00 | | | 319 | 208 |
| 378 | 6.69 | 6.66 | 34.227 | 26.857 | 124.3 | 0.577 | 0.29 | 4.2 | 79.6 | 3.25 | 34.5 | 0.00 | | | 381 | 207 |
| 400 ISL | 6.59 | 6.55 | 34.231 | 26.874 | 122.9 | 0.604 | 0.28 | 4.1 | 82.1 | 3.25 | 34.3 | 0.00 | | | 403 | |
| 438 | 6.51 | 6.47 | 34.234 | 26.887 | 122.2 | 0.650 | 0.27 | 3.9 | 84.6 | 3.25 | 33.9 | 0.00 | | | 441 | 206 |
| 477 | 6.46 | 6.42 | 34.236 | 26.896 | 121.9 | 0.698 | 0.23 | 3.3 | 87.7 | 3.29 | 33.1 | 0.00 | | | 480 | 205 |
| 500 ISL | 6.44 | 6.39 | 34.238 | 26.900 | 121.8 | 0.726 | 0.16 | 2.3 | 92.3 | 3.35 | 31.3 | 0.00 | | | 504 | |
| 512 | 6.43 | 6.38 | 34.239 | 26.902 | 121.7 | 0.741 | 0.12 | 1.7 | 95.2 | 3.39 | 30.1 | 0.00 | | | 516 | 204 |
| 538 | 6.41 | 6.36 | 34.241 | 26.907 | 121.7 | 0.772 | 0.04 | 0.6 | 101.1 | 3.44 | 27.8 | 0.00 | | | 542 | 203 |
| 562 | 6.40 | 6.35 | 34.242 | 26.909 | 121.8 | 0.802 | 0.04 | 0.6 | 102.1 | 3.45 | 27.3 | 0.00 | | | 566 | 202 |
| 567 | 6.40 | 6.35 | 34.246 | 26.912 | 121.6 | 0.808 | 0.03 | 0.4 | 103.4 | 3.46 | 26.8 | 0.00 | | | 571 | 201 |

A) SANTA BARBARA BASIN STATION.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 40.6

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.30 | 13.30 | 33.760 | 25.373 | 259.3 | 0.000 | 7.27 | 122.5 | 1.3 | 0.23 | 0.0 | 0.02 | 3.47 | 0.67 | 0 | |
| 2 | 13.30 | 13.30 | 33.760 | 25.373 | 259.3 | 0.005 | 7.27 | 122.5 | 1.3 | 0.23 | 0.0 | 0.02 | 3.47 | 0.67 | 2 | 205 |
| 5 | 13.31 | 13.31 | 33.760 | 25.371 | 259.6 | 0.013 | 7.25 | 122.2 | 1.3 | 0.21 | 0.0 | 0.02 | 3.61 | 0.60 | 5 | 204 |
| 10 | 12.24 | 12.24 | 33.768 | 25.588 | 239.1 | 0.025 | 7.83 | 129.0 | 0.7 | 0.18 | 0.0 | 0.02 | 7.18 | 1.06 | 10 | 203 |
| 20 | 11.39 | 11.39 | 33.774 | 25.751 | 223.8 | 0.049 | 5.23 | 84.6 | 10.2 | 1.07 | 8.0 | 0.19 | 7.28 | 1.98 | 20 | 202 |
| 29 | 10.98 | 10.98 | 33.794 | 25.841 | 215.5 | 0.068 | 4.14 | 66.4 | 17.2 | 1.42 | 14.2 | 0.27 | 2.19 | 1.74 | 29 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.51 | 12.51 | 33.780 | 25.545 | 243.0 | 0.000 | 7.11 | 117.9 | 2.1 | 0.30 | 0.0 | 0.06 | 9.67 | 1.84 | 0 | |
| 2 A | 12.51 | 12.51 | 33.780 | 25.545 | 243.0 | 0.005 | 7.11 | 117.9 | 2.1 | 0.30 | 0.0 | 0.06 | 9.67 | 1.84 | 2 | 214 |
| 3 A | 12.53 | 12.53 | 33.781 | 25.542 | 243.3 | 0.007 | 7.11 | 117.9 | 2.2 | 0.34 | 0.0 | 0.06 | 8.94 | 2.66 | 3 | 213 |
| 8 A | 12.16 | 12.16 | 33.784 | 25.615 | 236.5 | 0.019 | 7.31 | 120.3 | 1.5 | 0.29 | 0.1 | 0.04 | 14.15 | 3.23 | 8 | 212 |
| 10 ISL | 12.08 | 12.08 | 33.785 | 25.631 | 235.0 | 0.024 | 7.14 | 117.3 | 1.8 | 0.30 | 0.2 | 0.05 | 16.17 | 2.78 | 10 | |
| 12 A | 12.01 | 12.01 | 33.787 | 25.646 | 233.6 | 0.029 | 6.94 | 113.8 | 2.2 | 0.33 | 0.4 | 0.06 | 18.22 | 2.37 | 12 | 211 |
| 16 A | 11.82 | 11.82 | 33.796 | 25.689 | 229.7 | 0.038 | 6.88 | 112.4 | 2.6 | 0.42 | 1.2 | 0.06 | 22.63 | 2.95 | 16 | 210 |
| 20 ISL | 11.71 | 11.71 | 33.793 | 25.707 | 228.0 | 0.047 | 6.43 | 104.8 | 5.0 | 0.61 | 3.6 | 0.11 | 17.32 | 3.12 | 20 | |
| 22 A | 11.64 | 11.64 | 33.791 | 25.719 | 227.0 | 0.052 | 6.11 | 99.4 | 6.7 | 0.73 | 5.2 | 0.14 | 13.28 | 3.21 | 22 | 209 |
| 30 ISL | 10.97 | 10.97 | 33.808 | 25.854 | 214.3 | 0.069 | 4.67 | 74.9 | 15.9 | 1.36 | 11.8 | 0.24 | 4.63 | 2.91 | 30 | |
| 31 | 10.88 | 10.88 | 33.811 | 25.872 | 212.6 | 0.071 | 4.50 | 72.1 | 17.1 | 1.43 | 12.6 | 0.25 | 3.89 | 2.87 | 31 | 208 |
| 40 | 10.56 | 10.56 | 33.830 | 25.943 | 206.0 | 0.090 | 3.62 | 57.6 | 22.3 | 1.71 | 18.0 | 0.29 | 1.29 | 1.70 | 40 | 207 |
| 50 | 10.23 | 10.22 | 33.849 | 26.016 | 199.3 | 0.111 | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 51

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|--------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 52.9 N | 120 8.3 W | 17/04/01 | 0241 | UTC | 99 m | 300 | 25 kn | 330 05 07 | 1 | 1014.6 mb | 13.8 | C 12.0 | C | 6/8 | CI | |
| 0 ISL | 12.21 | 12.21 | 33.690 | 25.532 | 244.1 | 0.000 | 5.96 | 98.1 | 7.4 | 0.69 | 5.1 | 0.10 | 7.30 | 1.44 | 0 | |
| 3 | 12.21 | 12.21 | 33.690 | 25.532 | 244.2 | 0.007 | 5.96 | 98.1 | 7.4 | 0.69 | 5.1 | 0.10 | 7.30 | 1.44 | 3 | 210 |
| 8 | 12.22 | 12.22 | 33.690 | 25.531 | 244.5 | 0.020 | 5.98 | 98.5 | 7.3 | 0.68 | 5.0 | 0.10 | 7.75 | 1.83 | 8 | 209 |
| 10 ISL | 12.20 | 12.20 | 33.691 | 25.535 | 244.1 | 0.024 | 5.94 | 97.8 | 7.5 | 0.69 | 5.2 | 0.10 | 7.63 | 1.76 | 10 | |
| 17 | 12.08 | 12.08 | 33.701 | 25.566 | 241.4 | 0.041 | 5.72 | 93.9 | 8.7 | 0.78 | 6.5 | 0.10 | 7.21 | 1.35 | 17 | 208 |
| 20 ISL | 11.98 | 11.98 | 33.710 | 25.592 | 239.0 | 0.049 | 5.57 | 91.3 | 9.5 | 0.84 | 7.2 | 0.11 | 6.63 | 1.47 | 20 | |
| 28 | 11.74 | 11.74 | 33.731 | 25.653 | 233.3 | 0.068 | 5.21 | 84.9 | 11.6 | 0.99 | 9.0 | 0.12 | 5.05 | 1.76 | 28 | 207 |
| 30 ISL | 11.73 | 11.73 | 33.732 | 25.656 | 233.1 | 0.072 | 5.20 | 84.8 | 11.8 | 1.00 | 9.2 | 0.12 | 4.82 | 1.60 | 30 | |
| 38 | 11.70 | 11.70 | 33.734 | 25.663 | 232.6 | 0.091 | 5.17 | 84.2 | 12.4 | 1.04 | 9.7 | 0.11 | 4.28 | 1.02 | 38 | 206 |
| 47 | 11.66 | 11.65 | 33.752 | 25.685 | 230.8 | 0.112 | 5.09 | 82.8 | 13.1 | 1.11 | 10.1 | 0.12 | 4.25 | 1.61 | 47 | 205 |
| 50 ISL | 11.44 | 11.43 | 33.769 | 25.739 | 225.7 | 0.119 | 4.82 | 78.1 | 14.7 | 1.20 | 11.5 | 0.12 | 3.90 | 1.56 | 50 | |
| 58 | 10.75 | 10.74 | 33.823 | 25.905 | 210.1 | 0.136 | 3.93 | 62.7 | 19.9 | 1.48 | 16.1 | 0.12 | 2.60 | 1.43 | 58 | 204 |
| 69 | 10.23 | 10.22 | 33.881 | 26.041 | 197.4 | 0.158 | 2.99 | 47.2 | 25.5 | 1.83 | 21.6 | 0.13 | 0.73 | 1.11 | 69 | 203 |
| 74 | 10.18 | 10.17 | 33.882 | 26.050 | 196.6 | 0.168 | 2.96 | 46.7 | 25.7 | 1.83 | 21.6 | 0.13 | 0.74 | 0.95 | 74 | 202 |
| 75 ISL | 10.14 | 10.13 | 33.889 | 26.063 | 195.4 | 0.170 | 2.92 | 46.0 | 26.1 | 1.85 | 21.8 | 0.13 | 0.71 | 0.94 | 75 | |
| 89 | 9.62 | 9.61 | 33.989 | 26.228 | 179.9 | 0.196 | 2.36 | 36.8 | 32.1 | 2.08 | 25.3 | 0.10 | 0.36 | 0.82 | 89 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|--------|--------|----------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 44.9 N | 120 24.2 W | 16/04/01 | 2310 | UTC | 1011 m | 310 | 19 kn | 300 05 05 | 1 | 1017.1 mb | 13.9 | C 12.8 | C | 06m | 2/8 | CI |
| 0 ISL | 12.23 | 12.23 | 33.698 | 25.535 | 243.9 | 0.000 | 6.99 | 115.1 | 2.7 | 0.50 | 2.0 | 0.13 | 9.46 | 1.96 | 0 | |
| 3 | 12.23 | 12.23 | 33.698 | 25.535 | 244.0 | 0.007 | 6.99 | 115.1 | 2.7 | 0.50 | 2.0 | 0.13 | 9.46 | 1.96 | 3 | 220 |
| 10 ISL | 12.20 | 12.20 | 33.696 | 25.539 | 243.7 | 0.024 | 6.94 | 114.2 | 2.7 | 0.53 | 2.2 | 0.13 | 9.12 | 1.94 | 10 | |
| 12 | 12.19 | 12.19 | 33.695 | 25.540 | 243.7 | 0.029 | 6.92 | 113.9 | 2.7 | 0.54 | 2.3 | 0.13 | 8.92 | 1.94 | 12 | 219 |
| 20 ISL | 11.93 | 11.93 | 33.678 | 25.577 | 240.4 | 0.049 | 6.48 | 106.0 | 4.3 | 0.65 | 3.9 | 0.15 | 7.41 | 2.38 | 20 | |
| 22 | 11.87 | 11.87 | 33.675 | 25.586 | 239.6 | 0.053 | 6.38 | 104.3 | 4.7 | 0.67 | 4.2 | 0.15 | 7.08 | 2.48 | 22 | 218 |
| 30 ISL | 11.87 | 11.87 | 33.699 | 25.604 | 238.0 | 0.073 | 6.47 | 105.7 | 4.5 | 0.66 | 3.6 | 0.13 | 7.42 | 2.19 | 30 | |
| 32 | 11.87 | 11.87 | 33.706 | 25.610 | 237.6 | 0.077 | 6.51 | 106.4 | 4.5 | 0.65 | 3.4 | 0.13 | 7.50 | 2.14 | 32 | 217 |
| 42 | 11.64 | 11.63 | 33.734 | 25.675 | 231.7 | 0.101 | 6.26 | 101.8 | 6.7 | 0.75 | 4.7 | 0.14 | 9.64 | 3.06 | 42 | 216 |
| 50 ISL | 10.96 | 10.95 | 33.684 | 25.759 | 223.7 | 0.119 | 4.80 | 76.9 | 15.2 | 1.27 | 13.3 | 0.25 | 4.20 | 1.75 | 50 | |
| 51 | 10.87 | 10.86 | 33.678 | 25.771 | 222.7 | 0.121 | 4.61 | 73.7 | 16.3 | 1.33 | 14.4 | 0.26 | 3.43 | A 1.56 A | 51 | 215 |
| 62 | 10.59 | 10.58 | 33.700 | 25.837 | 216.5 | 0.145 | 4.26 | 67.7 | 18.3 | 1.43 | 16.4 | 0.20 | 2.15 | 1.34 | 62 | 214 |
| 72 | 10.17 | 10.16 | 33.742 | 25.943 | 206.7 | 0.167 | 3.87 | 61.0 | 21.0 | 1.56 | 18.6 | 0.10 | 2.34 | 1.52 | 72 | 213 |
| 75 ISL | 10.02 | 10.01 | 33.762 | 25.984 | 202.9 | 0.173 | 3.67 | 57.6 | 22.3 | 1.63 | 19.8 | 0.09 | 1.94 | 1.39 | 75 | |
| 86 | 9.52 | 9.51 | 33.836 | 26.125 | 189.6 | 0.194 | 3.02 | 46.9 | 27.0 | 1.85 | 23.8 | 0.06 | 0.31 | 0.79 | 86 | 212 |
| 100 ISL | 9.19 | 9.18 | 33.892 | 26.222 | 180.6 | 0.220 | 2.90 | 44.8 | 29.2 | 1.91 | 25.1 | 0.03 | 0.19 | 0.57 | 101 | |
| 102 | 9.16 | 9.15 | 33.901 | 26.234 | 179.5 | 0.224 | 2.90 | 44.7 | 29.5 | 1.92 | 25.2 | 0.03 | 0.17 | 0.56 | 103 | 211 |
| 121 | 9.11 | 9.10 | 34.067 | 26.372 | 166.8 | 0.257 | 2.07 | 31.9 | 36.3 | 2.22 | 27.8 | 0.03 | 0.16 | 0.50 | 122 | 210 |
| 125 ISL | 9.10 | 9.09 | 34.076 | 26.381 | 166.0 | 0.263 | 2.05 | 31.6 | 36.5 | 2.23 | 28.0 | 0.03 | 0.15 | 0.47 | 126 | |
| 141 | 9.02 | 9.00 | 34.084 | 26.400 | 164.5 | 0.290 | 1.97 | 30.3 | 37.1 | 2.25 | 28.3 | 0.04 | 0.09 | 0.33 | 142 | 209 |
| 150 ISL | 8.94 | 8.92 | 34.097 | 26.423 | 162.5 | 0.304 | 1.92 | 29.5 | 37.9 | 2.28 | 28.7 | 0.04 | 0.08 | 0.31 | 151 | |
| 171 | 8.72 | 8.70 | 34.128 | 26.483 | 157.2 | 0.338 | 1.78 | 27.2 | 40.3 | 2.35 | 29.7 | 0.02 | 0.07 | 0.27 | 172 | 208 |
| 200 | 8.43 | 8.41 | 34.159 | 26.552 | 151.1 | 0.383 | 1.60 | 24.3 | 43.6 | 2.46 | 30.8 | 0.01 | 0.06 | 0.30 | 201 | 207 |
| 231 | 8.17 | 8.15 | 34.180 | 26.608 | 146.3 | 0.429 | 1.43 | 21.6 | 46.8 | 2.53 | 31.8 | 0.01 | | | 232 | 206 |
| 250 ISL | 8.01 | 7.98 | 34.188 | 26.639 | 143.7 | 0.456 | 1.32 | 19.9 | 48.8 | 2.58 | 32.5 | 0.01 | | | 252 | |
| 272 | 7.81 | 7.78 | 34.195 | 26.674 | 140.6 | 0.488 | 1.20 | 18.0 | 51.2 | 2.65 | 33.3 | 0.01 | | | 274 | 205 |
| 300 ISL | 7.51 | 7.48 | 34.202 | 26.723 | 136.3 | 0.526 | 1.07 | 15.9 | 55.1 | 2.73 | 34.4 | 0.00 | | | 302 | |
| 320 | 7.31 | 7.28 | 34.208 | 26.756 | 133.3 | 0.553 | 0.98 | 14.5 | 57.9 | 2.78 | 35.2 | 0.00 | | | 322 | 204 |
| 379 | 7.01 | 6.97 | 34.251 | 26.833 | 126.9 | 0.630 | 0.71 | 10.4 | 64.3 | 2.91 | 36.6 | 0.00 | | | 382 | 203 |
| 400 ISL | 6.85 | 6.81 | 34.255 | 26.858 | 124.7 | 0.657 | 0.64 | 9.4 | 66.5 | 2.95 | 37.1 | 0.00 | | | 403 | |
| 436 | 6.55 | 6.51 | 34.259 | 26.901 | 120.8 | 0.701 | 0.54 | 7.9 | 70.3 | 3.01 | 38.1 | 0.00 | | | 439 | 202 |
| 500 ISL | 6.08 | 6.04 | 34.288 | 26.986 | 113.3 | 0.776 | 0.37 | 5.3 | 78.5 | 3.12 | 39.9 | 0.00 | | | 504 | |
| 513 | 5.98 | 5.93 | 34.294 | 27.003 | 111.7 | 0.790 | 0.34 | 4.9 | 80.2 | 3.14 | 40.3 | 0.00 | | | 517 | 201 |

A) FIRST FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|---------|------|
| 33 34.5 N | 120 45.2 W | 16/04/01 | 1842 | UTC | 1320 m | 320 | 15 kn | 340 05 06 | 1 | 1020.0 mb | 15.1 C | 13.2 C | 07m | 1/8 | CS | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 11.92 | 11.92 | 33.571 | 25.495 | 247.7 | 0.000 | 6.70 | 109.5 | 2.8 | 0.52 | 3.8 | 0.20 | 10.34 | 1.84 | 0 | |
| 2 A | 11.92 | 11.92 | 33.571 | 25.495 | 247.7 | 0.005 | 6.70 | 109.5 | 2.8 | 0.52 | 3.8 | 0.20 | 10.34 | 1.84 | 2 223 | |
| 6 A | 11.99 | 11.99 | 33.622 | 25.521 | 245.3 | 0.015 | 6.74 | 110.4 | 2.8 | 0.56 | 3.5 | 0.20 | 10.65 | 1.42 | 6 222 | |
| 10 ISL | 12.01 | 12.01 | 33.624 | 25.519 | 245.6 | 0.025 | 6.73 | 110.3 | 2.8 | 0.55 | 3.5 | 0.20 | 10.14 | 2.15 | 10 | |
| 11 A | 12.01 | 12.01 | 33.625 | 25.520 | 245.6 | 0.027 | 6.72 | 110.1 | 2.8 | 0.55 | 3.5 | 0.20 | 9.97 | 2.36 | 11 221 | |
| 16 A | 11.99 | 11.99 | 33.627 | 25.526 | 245.2 | 0.039 | 6.70 | 109.7 | 2.7 | 0.59 u | 3.5 | 0.19 | 9.74 | 2.11 | 16 220 | |
| 19 A | 11.99 | 11.99 | 33.626 D | 25.525 | 245.3 | 0.047 | 6.68 | 109.4 | 2.6 | 0.53 | 3.9 | 0.21 | 9.39 | 2.38 | 19 219 | |
| 20 ISL | 11.99 | 11.99 | 33.626 | 25.525 | 245.4 | 0.049 | 6.68 | 109.4 | 2.6 | 0.53 | 3.9 | 0.21 | 9.45 | 2.36 | 20 | |
| 28 A | 11.97 | 11.97 | 33.631 | 25.533 | 244.8 | 0.069 | 6.66 | 109.0 | 2.6 | 0.57 | 3.6 | 0.19 | 9.89 | 2.24 | 28 218 | |
| 30 ISL | 11.97 | 11.97 | 33.631 | 25.533 | 244.8 | 0.074 | 6.65 | 108.9 | 2.7 | 0.57 | 3.6 | 0.19 | 10.12 | 2.16 | 30 | |
| 34 | 11.96 | 11.96 | 33.631 | 25.535 | 244.8 | 0.083 | 6.64 | 108.7 | 2.8 | 0.56 | 3.7 | 0.19 | 10.42 | 1.99 | 34 217 | |
| 41 | 11.96 | 11.95 | 33.630 | 25.534 | 245.0 | 0.101 | 6.66 | 109.0 | 2.7 | 0.60 | 3.6 | 0.19 | 9.59 | 1.84 | 41 216 | |
| 50 ISL | 11.91 | 11.90 | 33.631 | 25.545 | 244.2 | 0.123 | 6.60 | 107.9 | 2.8 | 0.60 | 3.8 | 0.19 | 9.61 | 2.27 | 50 | |
| 51 | 11.91 | 11.90 | 33.631 | 25.545 | 244.3 | 0.125 | 6.59 | 107.7 | 2.8 | 0.60 | 3.8 | 0.19 | 9.61 | 2.33 | 51 215 | |
| 61 | 11.64 | 11.63 | 33.706 | 25.653 | 234.1 | 0.149 | 5.95 | 96.8 | 7.8 | 0.90 | 5.8 | 0.15 | 5.31 | 2.47 | 61 214 | |
| 71 | 11.24 | 11.23 | 33.732 | 25.747 | 225.4 | 0.172 | 5.35 | 86.3 | 11.8 | 1.11 | 9.2 | 0.17 | 6.25 | 2.43 | 71 213 | |
| 75 ISL | 11.14 | 11.13 | 33.739 | 25.771 | 223.3 | 0.181 | 5.18 | 83.4 | 13.0 | 1.18 | 10.4 | 0.18 | 5.97 | 2.76 | 75 | |
| 86 | 10.80 | 10.79 | 33.755 | 25.844 | 216.5 | 0.205 | 4.64 | 74.1 | 16.5 | 1.37 | 14.0 | 0.20 | 4.25 | 3.34 | 86 212 | |
| 100 ISL | 9.92 | 9.91 | 33.790 | 26.023 | 199.7 | 0.234 | 3.43 | 53.8 | 23.4 | 1.71 | 20.9 | 0.16 | 1.36 | 1.47 | 101 | |
| 101 | 9.86 | 9.85 | 33.794 | 26.036 | 198.4 | 0.236 | 3.35 | 52.4 | 23.9 | 1.73 | 21.4 | 0.16 | 1.17 | 1.31 | 102 211 | |
| 121 | 9.45 | 9.44 | 33.917 | 26.200 | 183.2 | 0.274 | 2.69 | 41.8 | 29.1 | 1.96 | 25.1 | 0.06 | 0.17 | 0.53 | 122 210 | |
| 125 ISL | 9.39 | 9.38 | 33.932 | 26.222 | 181.2 | 0.282 | 2.67 | 41.4 | 29.7 | 1.98 | 25.4 | 0.06 | 0.16 | 0.53 | 126 | |
| 141 | 9.14 | 9.12 | 33.973 | 26.294 | 174.6 | 0.310 | 2.61 | 40.2 | 31.7 | 2.02 | 26.3 | 0.04 | 0.14 | 0.52 | 142 209 | |
| 150 ISL | 8.91 | 8.89 | 33.992 | 26.346 | 169.8 | 0.326 | 2.59 | 39.7 | 33.2 | 2.05 | 26.9 | 0.03 | 0.11 | 0.46 | 151 | |
| 171 | 8.39 | 8.37 | 34.024 | 26.452 | 160.1 | 0.360 | 2.55 | 38.7 | 36.8 | 2.12 | 28.3 | 0.02 | 0.06 | 0.31 | 172 208 | |
| 200 ISL | 8.04 | 8.02 | 34.043 | 26.520 | 154.0 | 0.406 | 2.38 | 35.8 | 40.4 | 2.22 | 29.9 | 0.01 | 0.07 | 0.20 | 201 | |
| 201 | 8.03 | 8.01 | 34.043 | 26.521 | 153.9 | 0.407 | 2.37 | 35.7 | 40.5 | 2.22 | 29.9 | 0.01 | 0.07 | 0.20 | 202 207 | |
| 230 | 7.71 | 7.69 | 34.062 | 26.583 | 148.4 | 0.451 | 2.16 | 32.3 | 44.5 | 2.33 | 31.1 | 0.01 | | | 231 206 | |
| 250 ISL | 7.44 | 7.42 | 34.069 | 26.628 | 144.4 | 0.480 | 1.99 | 29.5 | 47.8 | 2.41 | 32.2 | 0.01 | | | 252 | |
| 270 | 7.20 | 7.17 | 34.077 | 26.668 | 140.8 | 0.509 | 1.81 | 26.7 | 51.0 | 2.49 | 33.3 | 0.00 | | | 272 205 | |
| 300 ISL | 7.03 | 7.00 | 34.102 | 26.711 | 137.0 | 0.551 | 1.53 | 22.5 | 54.8 | 2.60 | 34.6 | 0.00 | | | 302 | |
| 322 | 6.94 | 6.91 | 34.124 | 26.741 | 134.5 | 0.581 | 1.33 | 19.5 | 57.4 | 2.68 | 35.4 | 0.00 | | | 324 204 | |
| 382 | 6.54 | 6.51 | 34.179 | 26.839 | 125.9 | 0.659 | 0.86 | 12.5 | 66.2 | 2.89 | 37.7 | 0.00 | | | 385 203 | |
| 400 ISL | 6.43 | 6.39 | 34.199 | 26.869 | 123.2 | 0.681 | 0.74 | 10.7 | 68.8 | 2.95 | 38.3 | 0.00 | | | 403 | |
| 441 | 6.21 | 6.17 | 34.242 | 26.932 | 117.7 | 0.730 | 0.51 | 7.4 | 74.3 | 3.05 | 39.4 | 0.00 | | | 444 202 | |
| 500 ISL | 5.92 | 5.88 | 34.277 | 26.997 | 112.0 | 0.798 | 0.38 | 5.4 | 80.1 | 3.13 | 40.5 | 0.00 | | | 504 | |
| 514 | 5.85 | 5.81 | 34.286 | 27.013 | 110.7 | 0.814 | 0.35 | 5.0 | 81.5 | 3.15 | 40.7 | 0.00 | | | 518 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|---------------|--------|-----------|------|------|--------|--------|---------|------|
| 33 14.7 N | 121 26.5 W | 16/04/01 | 1134 | UTC | 3796 m | 320 | 15 kn | 1019 010.0 mb | 13.5 C | 12.8 C | | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.29 | 13.29 | 33.179 | 24.925 | 301.9 | 0.000 | 6.14 | 103.1 | 3.6 | 0.35 | 0.1 | 0.01 | 0.30 | 0.05 | 0 | |
| 3 | 13.29 | 13.29 | 33.179 | 24.925 | 301.9 | 0.009 | 6.14 | 103.1 | 3.6 | 0.35 | 0.1 | 0.01 | 0.30 | 0.05 | 3 220 | |
| 10 ISL | 13.29 | 13.29 | 33.179 | 24.926 | 302.1 | 0.030 | 6.12 | 102.7 | 3.6 | 0.35 | 0.1 | 0.01 | 0.31 | 0.06 | 10 | |
| 16 | 13.29 | 13.29 | 33.180 | 24.927 | 302.2 | 0.048 | 6.10 | 102.4 | 3.6 | 0.35 | 0.1 | 0.01 | 0.32 | 0.06 | 16 219 | |
| 20 ISL | 13.27 | 13.27 | 33.187 | 24.936 | 301.4 | 0.060 | 6.11 | 102.5 | 3.6 | 0.35 | 0.2 | 0.01 | 0.38 | 0.08 | 20 | |
| 30 ISL | 13.18 | 13.18 | 33.219 | 24.979 | 297.6 | 0.090 | 6.13 | 102.7 | 3.6 | 0.36 | 0.4 | 0.04 | 0.55 | 0.13 | 30 | |
| 31 | 13.17 | 13.17 | 33.223 | 24.984 | 297.1 | 0.093 | 6.13 | 102.7 | 3.6 | 0.36 | 0.4 | 0.04 | 0.57 | 0.14 | 31 218 | |
| 46 | 12.94 | 12.93 | 33.315 | 25.101 | 286.4 | 0.137 | 6.07 | 101.2 | 4.1 | 0.45 | 1.6 | 0.12 | 0.74 | 0.27 | 46 217 | |
| 50 ISL | 12.83 | 12.82 | 33.319 | 25.126 | 284.1 | 0.148 | 6.02 | 100.2 | 4.4 | 0.48 | 2.0 | 0.15 | 0.77 | 0.26 | 50 | |
| 55 | 12.62 | 12.61 | 33.315 | 25.164 | 280.6 | 0.163 | 5.93 | 98.2 | 5.0 | 0.53 | 2.7 | 0.17 | 0.80 | 0.23 | 55 216 | |
| 65 | 11.90 | 11.89 | 33.297 | 25.287 | 269.0 | 0.190 | 5.67 | 92.5 | 6.7 | 0.67 | 5.1 | 0.15 | 0.46 | 0.22 | 65 215 | |
| 75 ISL | 11.04 | 11.03 | 33.293 | 25.441 | 254.5 | 0.216 | 5.39 | 86.3 | 8.9 | 0.87 | 8.3 | 0.06 | 0.26 | 0.19 | 75 | |
| 76 | 10.95 | 10.94 | 33.295 | 25.459 | 252.9 | 0.219 | 5.36 | 85.7 | 9.2 | 0.89 | 8.7 | 0.05 | 0.24 | 0.19 | 76 214 | |
| 85 | 9.99 | 9.98 | 33.344 | 25.663 | 233.6 | 0.241 | 5.08 | 79.5 | 12.3 | 1.08 | 12.1 | 0.03 | 0.10 | 0.10 | 85 213 | |
| 96 | 9.84 | 9.83 | 33.358 | 25.699 | 230.3 | 0.266 | 5.14 | 80.2 | 13.0 | 1.13 | 12.8 | 0.02 | 0.08 | 0.10 | 96 212 | |
| 100 ISL | 9.74 | 9.73 | 33.382 | 25.734 | 227.0 | 0.275 | 5.03 | 78.3 | 13.8 | 1.18 | 13.5 | 0.02 | 0.07 | 0.10 | 100 | |
| 111 | 9.45 | 9.44 | 33.486 | 25.863 | 215.0 | 0.300 | 4.60 | 71.2 | 16.6 | 1.33 | 16.0 | 0.01 | 0.03 | 0.08 | 112 211 | |
| 125 | 9.27 | 9.26 | 33.677 | 26.042 | 198.3 | 0.329 | 4.20 | 64.8 | 20.3 | 1.47 | 18.7 | 0.01 | 0.02 | 0.05 | 126 210 | |
| 146 | 9.09 | 9.07 | 33.820 | 26.183 | 185.3 | 0.369 | 3.50 | 53.9 | 26.1 | 1.75 | 23.1 | 0.01 | 0.03 | 0.10 | 147 209 | |
| 150 ISL | 9.02 | 9.00 | 33.848 | 26.216 | 182.2 | 0.376 | 3.41 | 52.4 | 27.2 | 1.79 | 23.7 | 0.01 | 0.03 | 0.09 | 151 | |
| 171 | 8.65 | 8.63 | 33.967 | 26.367 | 168.2 | 0.413 | 3.05 | 46.5 | 32.1 | 1.94 | 26.2 | 0.01 | 0.02 | 0.05 | 172 208 | |
| 200 ISL | 8.36 | 8.34 | 34.014 | 26.449 | 160.8 | 0.461 | 2.76 | 41.8 | 36.0 | 2.06 | 27.9 | 0.01 | 0.03 | 0.05 | 201 | |
| 201 | 8.35 | 8.33 | 34.014 | 26.450 | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|------|----------|--------|--------|--------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 | 54.8 N | 122 8.0 W | 16/04/01 | 0538 | UTC | 4183 m | 290 | 06 kn | | 1021.1 mb | 13.8 | C 12.5 C | | | | |
| 0 | ISL | 13.88 | 13.88 | 33.160 | 24.791 | 314.7 | 0.000 | 6.10 | 103.6 | 4.1 | 0.36 | 0.1 | 0.01 | 0.20 | 0.03 | 0 |
| 3 | | 13.88 | 13.88 | 33.160 | 24.791 | 314.7 | 0.009 | 6.10 | 103.6 | 4.1 | 0.36 | 0.1 | 0.01 | 0.20 | 0.03 | 3 224 |
| 10 | ISL | 13.77 | 13.77 | 33.164 | 24.817 | 312.5 | 0.031 | 6.10 | 103.4 | 4.0 | 0.36 | 0.1 | 0.01 | 0.20 | 0.04 | 10 |
| 17 | | 13.62 | 13.62 | 33.168 | 24.851 | 309.4 | 0.053 | 6.10 | 103.1 | 3.9 | 0.36 | 0.0 | 0.00 | 0.20 | 0.05 | 17 219 |
| 20 | ISL | 13.57 | 13.57 | 33.168 | 24.861 | 308.6 | 0.062 | 6.11 | 103.2 | 3.9 | 0.36 | 0.0 | 0.00 | 0.21 | 0.05 | 20 |
| 30 | ISL | 13.43 | 13.43 | 33.168 | 24.890 | 306.1 | 0.093 | 6.12 | 103.0 | 3.9 | 0.35 | 0.0 | 0.00 | 0.24 | 0.05 | 30 |
| 31 | | 13.42 | 13.42 | 33.168 | 24.892 | 305.9 | 0.096 | 6.12 | 103.0 | 3.9 | 0.35 | 0.0 | 0.00 | 0.24 | 0.05 | 31 218 |
| 46 | | 13.41 | 13.40 | 33.180 | 24.903 | 305.2 | 0.142 | 6.10 | 102.6 | 3.8 | 0.36 | 0.1 | 0.01 | 0.28 | 0.06 | 46 217 |
| 50 | ISL | 13.36 | 13.35 | 33.179 | 24.913 | 304.4 | 0.154 | 6.10 | 102.5 | 3.9 | 0.36 | 0.1 | 0.01 | 0.29 | 0.07 | 50 |
| 55 | | 13.29 | 13.28 | 33.181 | 24.928 | 303.1 | 0.169 | 6.09 | 102.2 | 4.0 | 0.37 | 0.2 | 0.02 | 0.30 | 0.08 | 55 216 |
| 66 | | 13.24 | 13.23 | 33.214 | 24.964 | 300.0 | 0.203 | 6.07 | 101.8 | 4.1 | 0.39 | 0.4 | 0.04 | 0.40 | 0.11 | 66 215 |
| 75 | ISL | 12.97 | 12.96 | 33.214 | 25.018 | 295.1 | 0.229 | 5.97 | 99.6 | 4.7 | 0.46 | 1.2 | 0.12 | 0.42 | 0.13 | 75 |
| 76 | | 12.91 | 12.90 | 33.213 | 25.029 | 294.0 | 0.232 | 5.96 | 99.3 | 4.8 | 0.47 | 1.4 | 0.13 | 0.42 A | 0.13 A | 76 214 |
| 86 | | 11.84 | 11.83 | 33.197 | 25.221 | 275.8 | 0.261 | 5.79 | 94.3 | 6.8 | 0.66 | 4.5 | 0.23 | 0.31 | 0.12 | 86 213 |
| 95 | | 11.56 | 11.55 | 33.202 | 25.277 | 270.7 | 0.285 | 5.70 | 92.2 | 7.4 | 0.71 | 5.6 | 0.13 | 0.26 | 0.11 | 95 212 |
| 100 | ISL | 11.14 | 11.13 | 33.226 | 25.372 | 261.7 | 0.299 | 5.53 | 88.7 | 8.6 | 0.81 | 7.3 | 0.08 | 0.20 | 0.10 | 100 |
| 110 | | 10.22 | 10.21 | 33.301 | 25.591 | 241.0 | 0.324 | 5.16 | 81.2 | 11.5 | 1.03 | 11.2 | 0.02 | 0.09 | 0.08 | 111 211 |
| 125 | ISL | 9.49 | 9.48 | 33.422 | 25.807 | 220.6 | 0.358 | 4.88 | 75.6 | 14.8 | 1.21 | 14.3 | 0.01 | 0.04 | 0.06 | 126 |
| 126 | | 9.46 | 9.45 | 33.431 | 25.819 | 219.5 | 0.361 | 4.86 | 75.2 | 15.0 | 1.22 | 14.5 | 0.01 | 0.04 | 0.06 | 127 210 |
| 146 | | 9.21 | 9.19 | 33.667 | 26.044 | 198.5 | 0.402 | 4.06 | 62.6 | 21.5 | 1.54 | 19.7 | 0.01 | 0.02 | 0.05 | 147 209 |
| 150 | ISL | 9.19 | 9.17 | 33.702 | 26.074 | 195.6 | 0.410 | 3.94 | 60.7 | 22.5 | 1.58 | 20.5 | 0.01 | 0.02 | 0.05 | 151 |
| 170 | | 9.07 | 9.05 | 33.840 | 26.202 | 183.9 | 0.448 | 3.44 | 52.9 | 26.9 | 1.76 | 23.5 | 0.00 | 0.01 | 0.04 | 171 208 |
| 200 | | 8.64 | 8.62 | 33.984 | 26.383 | 167.2 | 0.501 | 2.99 | 45.6 | 33.0 | 1.95 | 26.5 | 0.00 | 0.00 | 0.04 | 201 207 |
| 228 | | 8.26 | 8.24 | 34.030 | 26.477 | 158.7 | 0.547 | 2.58 | 39.0 | 38.3 | 2.12 | 28.9 | 0.00 | | | 229 206 |
| 250 | ISL | 7.99 | 7.96 | 34.051 | 26.534 | 153.5 | 0.581 | 2.28 | 34.3 | 42.0 | 2.25 | 30.5 | 0.00 | | | 251 |
| 268 | | 7.78 | 7.75 | 34.063 | 26.574 | 149.9 | 0.608 | 2.06 | 30.8 | 44.8 | 2.35 | 31.7 | 0.00 | | | 270 205 |
| 300 | ISL | 7.40 | 7.37 | 34.081 | 26.643 | 143.7 | 0.655 | 1.82 | 27.0 | 49.5 | 2.47 | 33.2 | 0.00 | | | 302 |
| 317 | | 7.22 | 7.19 | 34.090 | 26.676 | 140.8 | 0.679 | 1.71 | 25.3 | 51.9 | 2.53 | 33.9 | 0.00 | | | 319 204 |
| 377 | | 6.74 | 6.71 | 34.131 | 26.774 | 132.1 | 0.761 | 1.18 | 17.2 | 60.8 | 2.77 | 36.3 | 0.00 | | | 379 203 |
| 400 | ISL | 6.62 | 6.58 | 34.145 | 26.802 | 129.7 | 0.791 | 1.04 | 15.1 | 63.5 | 2.83 | 37.1 | 0.00 | | | 403 |
| 438 | | 6.40 | 6.36 | 34.168 | 26.849 | 125.6 | 0.840 | 0.84 | 12.2 | 68.3 | 2.91 | 38.3 | 0.00 | | | 441 202 |
| 500 | ISL | 5.81 | 5.77 | 34.217 | 26.963 | 115.1 | 0.915 | 0.57 | 8.1 | 80.1 | 3.08 | 40.7 | 0.00 | | | 503 |
| 517 | | 5.65 | 5.61 | 34.231 | 26.994 | 112.2 | 0.934 | 0.50 | 7.1 | 83.3 | 3.13 | 41.3 | 0.00 | | | 521 201 |

A) FIRST FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|------|----------|--------|--------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 | 34.7 N | 122 48.7 W | 15/04/01 | 2304 | UTC | 4273 m | 250 | 06 kn | 250 02 09 | 0 | 1020.2 mb | 17.5 | C 14.0 C | 24m | 0/8 | |
| 0 | ISL | 14.42 | 14.42 | 33.216 | 24.722 | 321.3 | 0.000 | 6.14 | 105.5 | 2.9 | 0.34 | 0.1 | 0.00 | 0.27 | 0.04 | 0 |
| 3 | | 14.42 | 14.42 | 33.216 | 24.722 | 321.4 | 0.010 | 6.14 | 105.5 | 2.9 | 0.34 | 0.1 | 0.00 | 0.27 | 0.04 | 3 220 |
| 10 | ISL | 13.91 | 13.91 | 33.209 | 24.823 | 311.9 | 0.032 | 6.18 | 105.1 | 2.9 | 0.34 | 0.1 | 0.00 | 0.28 | 0.04 | 10 |
| 17 | | 13.31 | 13.31 | 33.204 | 24.941 | 300.8 | 0.053 | 6.23 | 104.6 | 2.8 | 0.34 | 0.1 | 0.00 | 0.30 | 0.05 | 17 219 |
| 20 | ISL | 13.29 | 13.29 | 33.204 | 24.945 | 300.5 | 0.062 | 6.23 | 104.6 | 2.8 | 0.34 | 0.1 | 0.00 | 0.31 | 0.05 | 20 |
| 30 | ISL | 13.24 | 13.24 | 33.203 | 24.955 | 299.9 | 0.092 | 6.22 | 104.3 | 2.8 | 0.35 | 0.1 | 0.00 | 0.37 | 0.06 | 30 |
| 31 | | 13.23 | 13.23 | 33.203 | 24.957 | 299.7 | 0.095 | 6.22 | 104.3 | 2.8 | 0.35 | 0.1 | 0.00 | 0.38 | 0.06 | 31 218 |
| 47 | | 13.15 | 13.14 | 33.204 | 24.974 | 298.5 | 0.143 | 6.21 | 103.9 | 3.0 | 0.35 | 0.1 | 0.02 | 0.49 | 0.10 | 47 217 |
| 50 | ISL | 13.14 | 13.13 | 33.204 | 24.976 | 298.4 | 0.152 | 6.20 | 103.8 | 3.0 | 0.35 | 0.1 | 0.02 | 0.49 | 0.09 | 50 |
| 56 | | 13.12 | 13.204 | 24.978 | 298.4 | 0.170 | 6.17 | 103.2 | 3.0 | 0.37 | 0.2 | 0.01 | 0.50 | 0.09 | 56 216 | |
| 66 | | 12.95 | 12.95 | 33.208 | 25.015 | 295.1 | 0.200 | 6.11 | 101.9 | 3.7 | 0.44 | 1.0 | 0.08 | 0.62 | 0.15 | 66 215 |
| 75 | ISL | 11.63 | 11.62 | 33.222 | 25.279 | 270.0 | 0.225 | 5.79 | 93.9 | 6.8 | 0.71 | 5.4 | 0.20 | 0.54 | 0.19 | 75 |
| 76 | | 11.47 | 11.46 | 33.224 | 25.310 | 267.1 | 0.228 | 5.75 | 92.9 | 7.2 | 0.74 | 5.9 | 0.21 | 0.52 | 0.19 | 76 214 |
| 86 | | 10.82 | 10.81 | 33.210 | 25.416 | 257.2 | 0.254 | 5.50 | 87.6 | 8.9 | 0.88 | 8.3 | 0.04 | 0.31 | 0.13 | 86 213 |
| 96 | | 10.19 | 10.18 | 33.287 | 25.585 | 241.2 | 0.279 | 5.26 | 82.7 | 10.9 | 1.02 | 10.8 | 0.02 | 0.17 | 0.10 | 96 212 |
| 100 | ISL | 9.92 | 9.91 | 33.323 | 25.658 | 234.3 | 0.288 | 5.14 | 80.3 | 12.2 | 1.10 | 12.1 | 0.02 | 0.13 | 0.08 | 100 |
| 111 | | 9.35 | 9.34 | 33.431 | 25.836 | 217.5 | 0.313 | 4.76 | 73.5 | 15.9 | 1.31 | 15.7 | 0.01 | 0.05 | 0.05 | 112 211 |
| 125 | ISL | 9.35 | 9.34 | 33.577 | 25.951 | 206.9 | 0.343 | 4.17 | 64.4 | 19.4 | 1.50 | 18.8 | 0.01 | 0.03 | 0.05 | 126 |
| 126 | | 9.35 | 9.34 | 33.585 | 25.957 | 206.4 | 0.345 | 4.13 | 63.8 | 19.6 | 1.51 | 19.0 | 0.01 | 0.03 | 0.05 | 127 210 |
| 145 | | 9.20 | 9.18 | 33.804 | 26.153 | 188.1 | 0.383 | 3.28 | 50.6 | 26.3 | 1.81 | 24.0 | 0.00 | 0.01 | 0.05 | 146 209 |
| 150 | ISL | 9.12 | 9.10 | 33.834 | 26.189 | 184.8 | 0.392 | 3.26 | 50.2 | 27.2 | 1.83 | 24.5 | 0.00 | 0.01 | 0.05 | 151 |
| 170 | | 8.77 | 8.75 | 33.913 | 26.306 | 174.0 | 0.428 | 3.19 | 48.8 | 30.0 | 1.88 | 25.6 | 0.00 | 0.01 | 0.05 | 171 208 |
| 200 | | 8.45 | 8.43 | 34.036 | 26.453 | 160.5 | 0.478 | 2.53 | 38.4 | 36.6 | 2.12 | 28.6 | 0.00 | 0.01 | 0.03 | 201 207 |
| 231 | | 8.09 | 8.07 | 34.079 | 26.541 | 152.6 | 0.526 | 2.02 | 30.4 | 41.8 | 2.32</td | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 13.6 N | 123 29.2 W | 15/04/01 | 1757 | UTC | 4170 m | 240 | 04 kn | 310 03 06 | 0 | 1020.8 mb | 15.1 | C 13.2 C | 25m | 0/8 | | |
| 0 ISL | 13.47 | 13.47 | 33.255 | 24.948 | 299.7 | 0.000 | 6.19 | 104.3 | 3.0 | 0.35 | 0.3 | 0.02 | 0.43 | 0.06 | 0 | |
| 3 A | 13.47 | 13.47 | 33.255 | 24.948 | 299.8 | 0.009 | 6.19 | 104.3 | 3.0 | 0.35 | 0.3 | 0.02 | 0.43 | 0.06 | 3 | 222 |
| 10 | 13.31 | 13.31 | 33.255 | 24.980 | 296.9 | 0.030 | 6.19 | 104.0 | 3.0 | 0.35 | 0.2 | 0.02 | 0.40 | 0.08 | 10 | 221 |
| 16 A | 13.24 | 13.24 | 33.253 | 24.993 | 295.9 | 0.048 | 6.22 | 104.3 | 2.9 | 0.35 | 0.2 | 0.02 | 0.42 | 0.09 | 16 | 220 |
| 20 ISL | 13.18 | 13.18 | 33.261 | 25.011 | 294.2 | 0.059 | 6.23 | 104.4 | 2.8 | 0.35 | 0.2 | 0.02 | 0.48 | 0.10 | 20 | |
| 25 | 13.11 | 13.11 | 33.276 | 25.037 | 291.9 | 0.074 | 6.24 | 104.4 | 2.7 | 0.35 | 0.2 | 0.03 | 0.60 | 0.12 | 25 | 219 |
| 30 ISL | 13.05 | 13.05 | 33.289 | 25.059 | 290.0 | 0.089 | 6.21 | 103.8 | 2.7 | 0.35 | 0.3 | 0.04 | 0.77 | 0.21 | 30 | |
| 34 A | 13.01 | 13.01 | 33.299 | 25.075 | 288.6 | 0.100 | 6.19 | 103.4 | 2.8 | 0.36 | 0.4 | 0.05 | 0.90 | 0.28 | 34 | 218 |
| 43 | 13.01 | 13.00 | 33.311 | 25.084 | 287.9 | 0.126 | 6.17 | 103.0 | 2.9 | 0.38 | 0.5 | 0.06 | 1.03 | 0.35 | 43 | 217 |
| 50 ISL | 12.98 | 12.97 | 33.319 | 25.097 | 286.9 | 0.146 | 6.11 | 102.0 | 3.3 | 0.40 | 0.8 | 0.07 | 1.11 | 0.35 | 50 | |
| 53 A | 12.96 | 12.95 | 33.320 | 25.102 | 286.5 | 0.155 | 6.09 | 101.6 | 3.5 | 0.41 | 0.9 | 0.07 | 1.14 | 0.35 | 53 | 216 |
| 59 | 12.93 | 12.92 | 33.316 | 25.104 | 286.4 | 0.172 | 6.07 | 101.2 | 3.7 | 0.42 | 0.9 | 0.08 | 0.76 | 0.33 | 59 | 215 |
| 68 A | 12.67 | 12.66 | 33.297 | 25.141 | 283.2 | 0.198 | 6.00 | 99.5 | 4.3 | 0.48 | 1.6 | 0.10 | 0.62 | 0.35 | 68 | 214 |
| 75 ISL | 11.74 | 11.73 | 33.241 | 25.274 | 270.6 | 0.217 | 5.80 | 94.2 | 6.5 | 0.68 | 4.7 | 0.09 | 0.44 | 0.32 | 75 | |
| 80 | 11.01 | 11.00 | 33.215 | 25.386 | 259.9 | 0.230 | 5.63 | 90.0 | 8.3 | 0.83 | 7.3 | 0.08 | 0.31 | 0.28 | 80 | 213 |
| 93 A | 10.27 | 10.26 | 33.293 | 25.576 | 242.0 | 0.263 | 5.30 | 83.5 | 11.0 | 1.01 | 10.6 | 0.03 | 0.14 | 0.16 | 93 | 212 |
| 100 ISL | 9.80 | 9.79 | 33.349 | 25.698 | 230.4 | 0.280 | 5.03 | 78.4 | 13.3 | 1.16 | 13.1 | 0.02 | 0.10 | 0.14 | 100 | |
| 107 | 9.41 | 9.40 | 33.414 | 25.813 | 219.6 | 0.295 | 4.75 | 73.4 | 15.7 | 1.30 | 15.5 | 0.02 | 0.08 | 0.13 | 108 | 211 |
| 121 | 9.24 | 9.23 | 33.559 | 25.954 | 206.5 | 0.325 | 4.28 | 66.0 | 19.4 | 1.49 | 18.5 | 0.02 | 0.04 | 0.09 | 122 | 210 |
| 125 ISL | 9.21 | 9.20 | 33.601 | 25.992 | 203.0 | 0.333 | 4.16 | 64.1 | 20.4 | 1.55 | 19.2 | 0.02 | 0.03 | 0.09 | 126 | |
| 141 | 9.10 | 9.08 | 33.750 | 26.126 | 190.5 | 0.365 | 3.74 | 57.5 | 24.0 | 1.76 | 21.7 | 0.01 | 0.02 | 0.09 | 142 | 209 |
| 150 ISL | 9.01 | 8.99 | 33.808 | 26.186 | 185.0 | 0.382 | 3.51 | 53.9 | 26.1 | 1.83 | 23.2 | 0.01 | 0.02 | 0.07 | 151 | |
| 171 | 8.75 | 8.73 | 33.905 | 26.303 | 174.3 | 0.419 | 3.06 | 46.8 | 30.7 | 1.94 | 26.1 | 0.01 | 0.01 | 0.04 | 172 | 208 |
| 200 | 8.37 | 8.35 | 34.006 | 26.441 | 161.6 | 0.468 | 2.74 | 41.5 | 35.8 | 2.07 | 28.1 | 0.01 | 0.01 | 0.05 | 201 | 207 |
| 230 | 8.11 | 8.09 | 34.049 | 26.514 | 155.1 | 0.516 | 2.37 | 35.7 | 39.8 | 2.21 | 29.7 | 0.01 | | | 231 | 206 |
| 250 ISL | 7.80 | 7.78 | 34.048 | 26.559 | 151.0 | 0.546 | 2.28 | 34.1 | 42.6 | 2.28 | 30.7 | 0.01 | | | 251 | |
| 270 | 7.47 | 7.44 | 34.042 | 26.602 | 147.1 | 0.576 | 2.21 | 32.8 | 45.6 | 2.34 | 31.7 | 0.01 | | | 272 | 205 |
| 300 ISL | 7.08 | 7.05 | 34.055 | 26.667 | 141.2 | 0.619 | 1.90 | 28.0 | 50.9 | 2.49 | 33.6 | 0.01 | | | 302 | |
| 320 | 6.86 | 6.83 | 34.069 | 26.709 | 137.5 | 0.647 | 1.66 | 24.3 | 54.7 | 2.59 | 34.9 | 0.01 | | | 322 | 204 |
| 380 | 6.29 | 6.26 | 34.112 | 26.818 | 127.5 | 0.727 | 1.08 | 15.6 | 65.6 | 2.83 | 37.9 | 0.01 | | | 382 | 203 |
| 400 ISL | 6.13 | 6.09 | 34.124 | 26.849 | 124.8 | 0.752 | 0.95 | 13.7 | 68.7 | 2.89 | 38.6 | 0.01 | | | 403 | |
| 440 | 5.86 | 5.82 | 34.149 | 26.903 | 120.0 | 0.801 | 0.75 | 10.7 | 74.5 | 2.98 | 39.8 | 0.01 | | | 443 | 202 |
| 500 ISL | 5.56 | 5.52 | 34.204 | 26.983 | 112.9 | 0.871 | 0.49 | 7.0 | 82.5 | 3.10 | 41.3 | 0.01 | | | 503 | |
| 517 | 5.47 | 5.43 | 34.220 | 27.007 | 110.7 | 0.890 | 0.42 | 6.0 | 84.8 | 3.14 | 41.7 | 0.01 | | | 521 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 31 55.0 N | 124 10.2 W | 15/04/01 | 1054 | UTC | 4203 m | 240 | 07 kn | | | | | | | | | |
| 0 ISL | 14.91 | 14.91 | 33.513 | 24.846 | 309.4 | 0.000 | 5.87 | 102.1 | 3.3 | 0.31 | 0.0 | 0.00 | 0.10 | 0.02 | 0 | |
| 3 | 14.91 | 14.91 | 33.513 | 24.846 | 309.5 | 0.009 | 5.87 | 102.1 | 3.3 | 0.31 | 0.0 | 0.00 | 0.10 | 0.02 | 3 | 224 |
| 10 ISL | 14.90 | 14.90 | 33.513 | 24.848 | 309.5 | 0.031 | 5.87 | 102.1 | 3.3 | 0.31 | 0.1 | 0.00 | 0.10 | 0.01 | 10 | |
| 16 | 14.89 | 14.89 | 33.512 | 24.850 | 309.5 | 0.050 | 5.86 | 101.9 | 3.3 | 0.30 | 0.1 | 0.00 | 0.10 | 0.01 | 16 | 219 |
| 20 ISL | 14.89 | 14.89 | 33.519 | 24.856 | 309.1 | 0.062 | 5.86 | 101.9 | 3.3 | 0.30 | 0.1 | 0.00 | 0.10 | 0.01 | 20 | |
| 30 ISL | 14.90 | 14.90 | 33.537 | 24.868 | 308.3 | 0.093 | 5.85 | 101.7 | 3.3 | 0.30 | 0.0 | 0.00 | 0.11 | 0.02 | 30 | |
| 31 | 14.90 | 14.90 | 33.539 | 24.869 | 308.2 | 0.096 | 5.85 | 101.7 | 3.3 | 0.30 | 0.0 | 0.00 | 0.11 | 0.02 | 31 | 218 |
| 46 | 14.90 | 14.89 | 33.544 | 24.874 | 308.2 | 0.142 | 5.85 | 101.7 | 3.2 | 0.30 | 0.1 | 0.00 | 0.14 | 0.03 | 46 | 217 |
| 50 ISL | 14.92 | 14.91 | 33.552 | 24.875 | 308.2 | 0.154 | 5.86 | 101.9 | 3.2 | 0.30 | 0.1 | 0.00 | 0.15 | 0.04 | 50 | |
| 60 | 14.97 | 14.96 | 33.571 | 24.880 | 308.1 | 0.185 | 5.87 | 102.2 | 3.1 | 0.29 | 0.1 | 0.00 | 0.17 | 0.05 | 60 | 216 |
| 75 | 14.47 | 14.46 | 33.519 | 24.947 | 302.0 | 0.231 | 5.82 | 100.3 | 3.3 | 0.35 | 0.4 | 0.01 | 0.38 | 0.15 | 75 | 215 |
| 86 | 13.13 | 13.12 | 33.361 | 25.100 | 287.5 | 0.263 | 5.86 | 98.1 | 4.2 | 0.47 | 1.6 | 0.05 | 0.31 | A 0.21 | A 86 | 214 |
| 95 | 11.83 | 11.82 | 33.355 | 25.346 | 264.2 | 0.288 | 5.57 | 90.7 | 6.0 | 0.66 | 4.7 | 0.08 | 0.29 | A 0.20 | A 95 | 213 |
| 100 ISL | 11.37 | 11.36 | 33.362 | 25.436 | 255.7 | 0.301 | 5.46 | 88.1 | 7.0 | 0.75 | 6.3 | 0.08 | 0.27 | 0.23 | 100 | |
| 105 | 11.02 | 11.01 | 33.376 | 25.510 | 248.7 | 0.314 | 5.36 | 85.8 | 7.9 | 0.83 | 7.8 | 0.07 | 0.25 | 0.25 | 105 | 212 |
| 115 | 10.39 | 10.38 | 33.425 | 25.659 | 234.7 | 0.338 | 5.12 | 80.9 | 9.9 | 0.96 | 10.5 | 0.03 | 0.18 | 0.13 | 116 | 211 |
| 125 | 10.01 | 10.00 | 33.462 | 25.752 | 225.9 | 0.361 | 4.93 | 77.3 | 12.2 | 1.14 | 12.6 | 0.03 | 0.13 | 0.10 | 126 | 210 |
| 140 | 9.63 | 9.61 | 33.583 | 25.910 | 211.2 | 0.394 | 4.46 | 69.4 | 16.2 | 1.34 | 16.5 | 0.01 | 0.05 | 0.05 | 141 | 209 |
| 150 ISL | 9.47 | 9.45 | 33.672 | 26.006 | 202.2 | 0.414 | 4.25 | 65.9 | 18.7 | 1.45 | 18.5 | 0.01 | 0.03 | 0.03 | 151 | |
| 166 | 9.26 | 9.24 | 33.806 | 26.145 | 189.3 | 0.446 | 3.97 | 61.3 | 22.6 | 1.60 | 21.0 | 0.01 | 0.01 | 0.02 | 167 | 208 |
| 195 | 8.72 | 8.70 | 33.976 | 26.364 | 169.0 | 0.498 | 3.44 | 52.5 | 29.5 | 1.80 | 24.4 | 0.01 | 0.00 | 0.02 | 196 | 207 |
| 200 ISL | 8.65 | 8.63 | 33.988 | 26.384 | 167.1 | 0.506 | 3.40 | 51.9 | 30.2 | 1.83 | 24.7 | 0.01 | | | 201 | |
| 230 | 8.25 | 8.23 | 34.013 | 26.465 | 159.8 | 0.555 | 3.22 | 48.7 | 34.1 | 2.00 | 26.6 | 0.01 | | | 231 | 206 |
| 250 ISL</ | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 33

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|--------|-------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 57 m | 270 | 09 kn | 260 02 07 | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 53.4 N | 118 29.3 W | 12/04/01 | 2212 | UTC | 25.172 | 278.4 | 0.000 | 7.81 | 132.3 | 1.3 | 0.29 | 0.1 | 0.03 | 19.17 | 3.70 | 0 |
| 0 ISL | 13.61 | 13.61 | 33.581 | 25.172 | 278.4 | 0.000 | 7.81 | 132.3 | 1.3 | 0.29 | 0.1 | 0.03 | 19.17 | 3.70 | 1 | 207 |
| 1 | 13.61 | 13.61 | 33.581 | 25.172 | 278.5 | 0.003 | 7.81 | 132.3 | 1.3 | 0.29 | 0.1 | 0.03 | 19.17 | 3.70 | 2 | 208 |
| 2 | 13.62 | 13.62 | 33.581 | 25.170 | 278.7 | 0.006 | | | | | | | | | | 6 206 |
| 6 | 12.95 | 12.95 | 33.583 | 25.306 | 265.8 | 0.016 | 7.35 | 122.8 | 2.0 | 0.32 | 0.3 | 0.05 | 22.25 | 2.93 | 10 205 | |
| 10 | 12.28 | 12.28 | 33.600 | 25.449 | 252.3 | 0.027 | 5.48 | 90.3 | 7.8 | 0.77 | 6.3 | 0.24 | 14.41 | 2.13 | 10 204 | |
| 20 | 11.06 | 11.06 | 33.688 | 25.744 | 224.5 | 0.051 | 3.36 | 54.0 | 20.9 | 1.74 | 17.6 | 0.39 | 1.38 | 1.08 | 20 204 | |
| 30 | 10.95 | 10.95 | 33.705 | 25.777 | 221.6 | 0.073 | 3.26 | 52.2 | 21.4 | 1.74 | 17.9 | 0.38 | 2.15 | 1.61 | 30 203 | |
| 41 | 10.49 | 10.49 | 33.842 | 25.965 | 204.0 | 0.096 | 2.68 | 42.6 | 25.7 | 1.90 | 21.8 | 0.25 | 0.57 | 0.54 | 41 202 | |
| 50 ISL | 10.49 | 10.48 | 33.844 | 25.967 | 204.0 | 0.115 | 2.69 | 42.7 | 25.5 | 1.90 | 21.6 | 0.23 | 0.63 | 0.60 | 50 202 | |
| 51 | 10.49 | 10.48 | 33.844 | 25.967 | 204.0 | 0.117 | 2.69 | 42.7 | 25.5 | 1.90 | 21.6 | 0.23 | 0.64 | 0.61 | 51 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 629 m | 270 | 13 kn | 240 02 06 | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 49.4 N | 118 37.5 W | 12/04/01 | 2345 | UTC | 25.173 | 278.3 | 0.000 | 8.24 | 139.5 | 0.9 | 0.22 | 0.1 | 0.02 | 16.51 | 4.06 | 0 |
| 0 ISL | 13.59 | 13.59 | 33.577 | 25.173 | 278.4 | 0.003 | 8.24 | 139.5 | 0.9 | 0.22 | 0.1 | 0.02 | 16.51 | 4.06 | 1 | 220 |
| 1 | 13.59 | 13.59 | 33.577 | 25.173 | 278.4 | 0.006 | 6.63 | 110.1 | 2.1 | 0.38 | 0.5 | 0.04 | 22.53 | 5.38 | 10 219 | |
| 10 | 12.64 | 12.64 | 33.582 | 25.366 | 260.2 | 0.027 | 5.43 | 89.7 | 7.7 | 0.77 | 6.1 | 0.20 | 13.71 | 2.54 | 20 218 | |
| 20 | 12.42 | 12.42 | 33.596 | 25.420 | 255.4 | 0.053 | 4.06 | 65.9 | 14.4 | 1.28 | 13.7 | 0.33 | 7.63 | 1.79 | 30 217 | |
| 30 | 11.57 | 11.57 | 33.645 | 25.618 | 236.7 | 0.077 | 3.32 | 53.2 | 20.2 | 1.63 | 18.4 | 0.31 | 0.51 | 0.60 | 40 216 | |
| 40 | 10.98 | 10.98 | 33.719 | 25.783 | 221.3 | 0.100 | 3.18 | 50.9 | 21.5 | 1.69 | 19.4 | 0.30 | 0.52 | 0.43 | 50 215 | |
| 50 | 10.85 | 10.84 | 33.745 | 25.826 | 217.3 | 0.122 | 3.01 | 48.0 | 23.1 | 1.79 | 20.4 | 0.32 | 0.47 | 0.58 | 60 214 | |
| 60 | 10.73 | 10.72 | 33.769 | 25.867 | 213.8 | 0.144 | 2.59 | 41.0 | 26.9 | 1.95 | 23.1 | 0.24 | 0.19 | 0.31 | 70 213 | |
| 70 | 10.29 | 10.28 | 33.876 | 26.027 | 198.7 | 0.164 | 2.52 | 39.8 | 27.7 | 1.98 | 23.6 | 0.23 | 0.18 | 0.31 | 75 213 | |
| 75 ISL | 10.21 | 10.20 | 33.896 | 26.056 | 196.0 | 0.174 | 2.45 | 38.6 | 28.6 | 2.01 | 24.1 | 0.20 | 0.16 | 0.31 | 85 212 | |
| 85 | 10.11 | 10.10 | 33.927 | 26.098 | 192.3 | 0.194 | 2.19 | 34.2 | 31.7 | 2.12 | 26.3 | 0.03 | 0.07 | 0.17 | 101 211 | |
| 100 | 9.72 | 9.71 | 34.050 | 26.259 | 177.2 | 0.221 | 2.19 | 32.6 | 32.8 | 2.17 | 26.9 | 0.02 | 0.04 | 0.14 | 121 210 | |
| 120 | 9.63 | 9.62 | 34.086 | 26.303 | 173.5 | 0.256 | 2.09 | 31.5 | 33.5 | 2.20 | 27.3 | 0.02 | 0.04 | 0.13 | 126 209 | |
| 125 ISL | 9.59 | 9.58 | 34.104 | 26.324 | 171.6 | 0.265 | 2.02 | 30.8 | 34.0 | 2.20 | 27.7 | 0.02 | 0.04 | 0.13 | 130 208 | |
| 140 | 9.44 | 9.42 | 34.158 | 26.391 | 165.6 | 0.290 | 1.78 | 27.7 | 36.0 | 2.31 | 28.4 | 0.02 | 0.03 | 0.10 | 141 209 | |
| 150 ISL | 9.35 | 9.33 | 34.178 | 26.421 | 162.9 | 0.307 | 1.69 | 26.2 | 37.1 | 2.35 | 28.8 | 0.02 | 0.03 | 0.10 | 151 209 | |
| 169 | 9.21 | 9.19 | 34.204 | 26.464 | 159.1 | 0.337 | 1.56 | 24.1 | 38.9 | 2.40 | 29.4 | 0.01 | 0.03 | 0.10 | 170 208 | |
| 199 | 9.03 | 9.01 | 34.253 | 26.532 | 153.3 | 0.384 | 1.35 | 20.8 | 41.4 | 2.50 | 30.2 | 0.01 | 0.02 | 0.18 | 200 207 | |
| 200 ISL | 9.02 | 9.00 | 34.255 | 26.535 | 153.0 | 0.386 | 1.34 | 20.6 | 41.5 | 2.50 | 30.2 | 0.01 | | | 201 207 | |
| 228 | 8.81 | 8.79 | 34.283 | 26.591 | 148.2 | 0.428 | 1.12 | 17.2 | 44.5 | 2.60 | 31.2 | 0.00 | | | 229 206 | |
| 250 ISL | 8.58 | 8.55 | 34.276 | 26.622 | 145.6 | 0.460 | 1.10 | 16.8 | 46.2 | 2.63 | 31.9 | 0.00 | | | 252 206 | |
| 268 | 8.36 | 8.33 | 34.263 | 26.645 | 143.6 | 0.486 | 1.09 | 16.5 | 47.9 | 2.65 | 32.6 | 0.00 | | | 270 205 | |
| 300 ISL | 7.82 | 7.79 | 34.250 | 26.716 | 137.1 | 0.531 | 0.97 | 14.5 | 53.3 | 2.75 | 34.2 | 0.00 | | | 302 205 | |
| 319 | 7.51 | 7.48 | 34.247 | 26.759 | 133.2 | 0.557 | 0.88 | 13.1 | 56.7 | 2.81 | 35.1 | 0.00 | | | 321 204 | |
| 377 | 7.08 | 7.04 | 34.258 | 26.828 | 127.3 | 0.632 | 0.68 | 10.0 | 62.5 | 2.92 | 36.7 | 0.00 | | | 380 203 | |
| 400 ISL | 6.92 | 6.88 | 34.263 | 26.854 | 125.0 | 0.661 | 0.61 | 9.0 | 64.9 | 2.97 | 37.3 | 0.00 | | | 403 203 | |
| 438 | 6.66 | 6.62 | 34.274 | 26.899 | 121.2 | 0.708 | 0.50 | 7.3 | 69.2 | 3.04 | 38.3 | 0.01 | | | 441 202 | |
| 500 ISL | 6.28 | 6.23 | 34.315 | 26.981 | 114.0 | 0.781 | 0.33 | 4.8 | 77.8 | 3.15 | 39.5 | 0.00 | | | 504 202 | |
| 516 | 6.18 | 6.13 | 34.326 | 27.003 | 112.0 | 0.799 | 0.28 | 4.0 | 80.0 | 3.18 | 39.8 | 0.00 | | | 520 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 40

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|--------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 754 m | 270 | 14 kn | 240 04 00 | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 39.4 N | 118 58.5 W | 13/04/01 | 0400 | UTC | 25.063 | 288.8 | 0.000 | 6.21 | 106.1 | 4.1 | 0.39 | 0.7 | 0.03 | 1.76 | 0.47 | 0 |
| 0 ISL | 14.02 | 14.02 | 33.550 | 25.063 | 288.8 | 0.006 | 6.21 | 106.1 | 4.1 | 0.39 | 0.7 | 0.03 | 1.76 | 0.47 | 2 | 220 |
| 2 | 14.02 | 14.02 | 33.550 | 25.067 | 288.7 | 0.029 | 6.21 | 106.0 | 4.0 | 0.36 | 0.7 | 0.04 | 1.78 | 0.54 | 10 219 | |
| 10 ISL | 14.00 | 14.00 | 33.549 | 25.067 | 288.7 | 0.032 | 6.21 | 106.0 | 4.0 | 0.36 | 0.7 | 0.04 | 1.78 | 0.55 | 11 219 | |
| 11 | 14.00 | 14.00 | 33.549 | 25.077 | 288.7 | 0.032 | 6.21 | 106.0 | 4.0 | 0.36 | 0.7 | 0.04 | 1.78 | 0.55 | 11 219 | |
| 20 ISL | 13.74 | 13.74 | 33.548 | 25.120 | 283.9 | 0.058 | 6.11 | 103.8 | 5.4 | 0.43 | 1.6 | 0.05 | 1.10 | 0.35 | 20 218 | |
| 21 | 13.70 | 13.70 | 33.548 | 25.128 | 283.2 | 0.060 | 6.09 | 103.3 | 5.6 | 0.44 | 1.7 | 0.05 | 1.02 | 0.33 | 21 218 | |
| 30 ISL | 13.46 | 13.46 | 33.548 | 25.177 | 278.7 | 0.086 | 5.94 | 100.3 | 5.9 | 0.46 | 2.1 | 0.06 | 0.87 | 0.39 | 30 209 | |
| 31 | 13.42 | 13.42 | 33.549 | 25.186 | 277.9 | 0.088 | 5.91 | 99.7 | 6.0 | 0.46 | 2.1 | 0.06 | 0.85 | 0.40 | 31 217 | |
| 41 | 12.45 | 12.44 | 33.608 | 25.424 | 255.5 | 0.115 | 5.11 | 84.5 | 8.7 | 0.81 | 7.1 | 0.14 | 2.18 | 1.00 | 41 216 | |
| 50 ISL | 11.11 | 11.10 | 33.703 | 25.747 | 224.9 | 0.137 | 3.71 | 59.7 | 17.8 | 1.41 | 16.3 | 0.11 | 0.79 | 0.47 | 50 209 | |
| 51 | 10.98 | 10.97 | 33.714 | 25.779 | 221.9 | 0.139 | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|-------------|---------|-----------|-----------|----------|----------|------------|-------------|---------|-------|
| 33 29.7 N | 119 18.9 W | 13/04/01 | 0822 | UTC | 1642 m | 290 | 16 kn | | | 1016.6 mb | 12.2 C | 10.6 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 0 ISL | 12.44 | 12.44 | 33.642 | 25.451 | 251.9 | 0.000 | | | | | | | | | | 0 |
| 1 | 12.44 | 12.44 | 33.642 | 25.451 | 251.9 | 0.003 | | | | | | | | | | 1 224 |
| 10 | 12.32 | 12.32 | 33.642 | 25.474 | 249.9 | 0.025 | 5.99 | 98.8 | 3.4 | 0.68 | 4.8 | 0.14 | 1.10 | 0.79 | 10 219 | |
| 20 | 12.29 | 12.29 | 33.642 | 25.480 | 249.6 | 0.050 | 5.95 | 98.1 | 3.7 | 0.70 | 5.0 | 0.14 | 1.37 | 1.00 | 20 218 | |
| 29 | 12.02 | 12.02 | 33.652 | 25.540 | 244.2 | 0.072 | 5.60 | 91.8 | 6.4 | 0.81 | 6.7 | 0.13 | 1.50 | 1.05 | 29 217 | |
| 30 ISL | 11.92 | 11.92 | 33.659 | 25.564 | 241.9 | 0.075 | 5.46 | 89.3 | 7.4 | 0.86 | 7.5 | 0.13 | 1.43 | 1.04 | 30 | |
| 40 | 10.79 | 10.79 | 33.757 | 25.846 | 215.2 | 0.098 | 3.93 | 62.8 | 18.7 | 1.43 | 16.4 | 0.12 | 0.62 | 0.85 | 40 216 | |
| 50 ISL | 9.94 | 9.93 | 33.859 | 26.073 | 193.9 | 0.118 | 2.97 | 46.6 | 26.1 | 1.83 | 22.7 | 0.07 | 0.24 | 0.56 | 50 | |
| 51 | 9.88 | 9.87 | 33.868 | 26.090 | 192.3 | 0.120 | 2.91 | 45.6 | 26.6 | 1.86 | 23.1 | 0.06 | 0.22 | 0.53 | 51 215 | |
| 60 | 9.70 | 9.69 | 33.930 | 26.168 | 185.0 | 0.137 | 2.63 | 41.1 | 29.3 | 1.98 | 24.8 | 0.04 | 0.09 | 0.25 | 60 214 | |
| 70 | 9.53 | 9.52 | 33.952 | 26.214 | 180.9 | 0.155 | 2.54 | 39.5 | 30.7 | 2.03 | 25.5 | 0.05 | 0.06 | 0.27 | 70 213 | |
| 75 ISL | 9.44 | 9.43 | 33.973 | 26.245 | 178.0 | 0.164 | 2.46 | 38.2 | 31.7 | 2.07 | 26.0 | 0.04 | 0.05 | 0.26 | 75 | |
| 85 | 9.28 | 9.27 | 34.016 | 26.305 | 172.5 | 0.182 | 2.30 | 35.6 | 33.7 | 2.14 | 27.1 | 0.02 | 0.03 | 0.22 | 85 212 | |
| 100 | 9.16 | 9.15 | 34.052 | 26.352 | 168.3 | 0.207 | 2.18 | 33.7 | 35.1 | 2.20 | 27.9 | 0.02 | 0.02 | 0.13 | 101 211 | |
| 119 | 9.10 | 9.09 | 34.068 | 26.375 | 166.5 | 0.239 | 2.12 | 32.7 | 35.9 | 2.22 | 28.0 | 0.02 | 0.03 | 0.16 | 120 210 | |
| 125 ISL | 9.04 | 9.03 | 34.081 | 26.395 | 164.8 | 0.249 | 2.07 | 31.9 | 36.6 | 2.25 | 28.3 | 0.02 | 0.03 | 0.16 | 126 | |
| 139 | 8.86 | 8.85 | 34.115 | 26.450 | 159.8 | 0.272 | 1.93 | 29.6 | 38.6 | 2.32 | 29.2 | 0.02 | 0.02 | 0.14 | 140 209 | |
| 150 ISL | 8.71 | 8.69 | 34.133 | 26.488 | 156.4 | 0.289 | 1.84 | 28.1 | 40.2 | 2.37 | 29.8 | 0.02 | 0.02 | 0.12 | 151 | |
| 169 | 8.46 | 8.44 | 34.156 | 26.545 | 151.2 | 0.318 | 1.68 | 25.5 | 43.0 | 2.45 | 30.7 | 0.01 | 0.01 | 0.10 | 170 208 | |
| 199 | 8.09 | 8.07 | 34.179 | 26.619 | 144.6 | 0.363 | 1.40 | 21.1 | 47.8 | 2.58 | 32.3 | 0.01 | 0.01 | 0.09 | 200 207 | |
| 200 ISL | 8.09 | 8.07 | 34.179 | 26.619 | 144.6 | 0.364 | 1.40 | 21.1 | 47.9 | 2.58 | 32.3 | 0.01 | | | 201 | |
| 229 | 7.97 | 7.95 | 34.185 | 26.642 | 143.0 | 0.406 | 1.33 | 20.0 | 49.4 | 2.61 | 32.8 | 0.01 | | | 230 206 | |
| 250 ISL | 7.74 | 7.72 | 34.201 | 26.688 | 138.8 | 0.435 | 1.17 | 17.5 | 52.9 | 2.69 | 33.7 | 0.01 | | | 252 | |
| 269 | 7.51 | 7.48 | 34.217 | 26.734 | 134.7 | 0.461 | 1.01 | 15.0 | 56.3 | 2.77 | 34.6 | 0.01 | | | 271 205 | |
| 300 ISL | 7.32 | 7.29 | 34.229 | 26.771 | 131.6 | 0.503 | 0.89 | 13.2 | 59.2 | 2.83 | 35.4 | 0.00 | | | 302 | |
| 317 | 7.24 | 7.21 | 34.234 | 26.786 | 130.4 | 0.525 | 0.84 | 12.4 | 60.4 | 2.86 | 35.7 | 0.00 | | | 319 204 | |
| 379 | 6.95 | 6.91 | 34.263 | 26.850 | 125.2 | 0.604 | 0.63 | 9.3 | 65.8 | 2.97 | 36.9 | 0.00 | | | 382 203 | |
| 400 ISL | 6.84 | 6.80 | 34.276 | 26.876 | 125.0 | 0.630 | 0.55 | 8.1 | 68.0 | 3.01 | 37.3 | 0.00 | | | 403 | |
| 438 | 6.63 | 6.59 | 34.300 | 26.923 | 118.9 | 0.676 | 0.43 | 6.3 | 72.3 | 3.09 | 38.1 | 0.00 | | | 441 202 | |
| 500 ISL | 6.27 | 6.23 | 34.324 | 26.990 | 113.1 | 0.748 | 0.31 | 4.5 | 79.3 | 3.17 | 39.0 | 0.00 | | | 504 | |
| 513 | 6.20 | 6.15 | 34.329 | 27.003 | 112.0 | 0.763 | 0.29 | 4.2 | 80.8 | 3.19 | 39.2 | 0.00 | | | 517 201 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 50

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|-------------|---------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| 33 19.2 N | 119 39.6 W | 13/04/01 | 1240 | UTC | 79 m | 310 | 25 kn | | | 1016.3 mb | 12.1 C | 10.4 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 0 ISL | 12.07 | 12.07 | 33.644 | 25.523 | 245.0 | 0.000 | 5.91 | 97.0 | 7.0 | 0.79 | 6.7 | 0.15 | 4.92 | 1.18 | 0 | |
| 2 | 12.07 | 12.07 | 33.644 | 25.523 | 245.0 | 0.005 | 5.91 | 97.0 | 7.0 | 0.79 | 6.7 | 0.15 | 4.92 | A 1.18 | A 209 | |
| 5 | 12.07 | 12.07 | 33.644 | 25.523 | 245.1 | 0.012 | 5.91 | 97.0 | 6.9 | 0.80 | 6.7 | 0.14 | 4.90 | 1.09 | 5 208 | |
| 10 ISL | 12.07 | 12.07 | 33.644 | 25.524 | 245.2 | 0.025 | 5.92 | 97.1 | 7.0 | 0.78 | 6.6 | 0.15 | 4.96 | 1.19 | 10 | |
| 11 | 12.07 | 12.07 | 33.644 | 25.524 | 245.2 | 0.027 | 5.92 | 97.1 | 7.0 | 0.78 | 6.6 | 0.15 | 4.98 | 1.23 | 11 207 | |
| 20 | 12.07 | 12.07 | 33.643 | 25.523 | 245.5 | 0.049 | 5.91 | 97.0 | 6.9 | 0.78 | 6.7 | 0.15 | 5.12 | 1.36 | 20 206 | |
| 30 ISL | 11.84 | 11.84 | 33.639 | 25.563 | 241.9 | 0.073 | 5.78 | 94.4 | 7.8 | 0.83 | 7.2 | 0.15 | 4.83 | 1.08 | 30 | |
| 31 | 11.79 | 11.79 | 33.638 | 25.572 | 241.1 | 0.076 | 5.77 | 94.1 | 7.9 | 0.83 | 7.3 | 0.15 | 4.80 | 1.04 | 31 205 | |
| 40 | 10.96 | 10.96 | 33.616 | 25.706 | 228.5 | 0.097 | 4.78 | 76.6 | 14.2 | 1.19 | 12.8 | 0.14 | 1.27 | 0.81 | 40 204 | |
| 50 | 10.66 | 10.65 | 33.665 | 25.798 | 220.1 | 0.119 | 4.30 | 68.5 | 17.3 | 1.35 | 15.4 | 0.12 | 0.97 | 0.72 | 50 203 | |
| 61 | 10.30 | 10.29 | 33.743 | 25.921 | 208.6 | 0.143 | 3.77 | 59.6 | 21.2 | 1.55 | 18.5 | 0.10 | 0.58 | 0.71 | 61 202 | |
| 68 | 9.70 | 9.69 | 33.846 | 26.103 | 191.4 | 0.157 | 3.14 | 49.0 | 26.8 | 1.80 | 22.6 | 0.09 | 0.27 | 0.62 | 68 201 | |

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|-------------|--------|--------|-------------|-----------|-----------|-----------|----------|----------|------------|-------------|---------|------|
| 33 8.9 N | 120 1.4 W | 13/04/01 | 1805 | UTC | 1177 m | 310 | 22 kn | 300 08 08 | 1 | 1018.8 mb | 12.6 C | 10.8 C | 12m | 1/8 | ST | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAEAO ug/l | PRES db | SAMP |
| 0 ISL | 12.50 | 12.50 | 33.508 | 25.336 | 262.8 | 0.000 | 6.30 | 104.2 | 2.8 | 0.59 | 3.6 | 0.16 | 2.06 | 0.96 | 0 | |
| 2 A | 12.50 | 12.50 | 33.508 | 25.336 | 262.9 | 0.005 | 6.30 | 104.2 | 2.8 | 0.59 | 3.6 | 0.16 | 2.06 | 0.96 | 2 222 | |
| 8 A | 12.52 | 12.52 | 33.508 | 25.332 | 263.4 | 0.021 | 6.34 | 104.9 | 2.7 | 0.59 | 3.5 | 0.16 | 2.07 | 1.02 | 8 221 | |
| 10 ISL | 12.52 | 12.52 | 33.508 | 25.332 | 263.4 | 0.026 | 6.34 | 104.9 | 2.6 | 0.59 | 3.5 | 0.16 | 2.08 | 0.97 | 10 | |
| 16 A | 12.53 | 12.53 | 33.509 | 25.331 | 263.7 | 0.042 | 6.35 | 105.1 | 2.5 | 0.58 | 3.4 | 0.16 | 2.12 | 0.82 | 16 220 | |
| 20 ISL | 12.51 | 12.51 | 33.509 | 25.335 | 263.4 | 0.053 | 6.34 | 104.9 | 2.6 | 0.58 | 3.5 | 0.16 | 2.12 | 0.87 | 20 219 | |
| 25 A | 12.49 | 12.49 | 33.508 | 25.338 | 263.3 | 0.066 | 6.32 | 104.5 | 2.7 | 0.59 | 3.6 | 0.16 | 2.13 | 0.95 | 25 219 | |
| 30 ISL | 12.48 | 12.48 | 33.508 | 25.340 | 263.2 | 0.079 | 6.29 | 104.0 | 2.7 | 0.60 | 3.6 | 0.16 | 1.97 | 0.91 | 30 | |
| 31 A | 12.48 | 12.48 | 33.508 | 25.340 | 263.2 | 0.082 | 6.29 | 104.0 | 2.7 | 0.60 | 3.6 | 0.16 | 1.94 | 0.90 | 31 218 | |
| 38 | 12.47 | 12.47 | 33.508 | 25.340 | 263.4 | 0.100 | 6.28 | 103.8 | 2.7 | 0.60 | 3.9 | 0.16 | 1.84 | 0.90 | 38 217 | |
| 45 A | 12.47 | 12.47 | 33.509 | 25.341 | 263.5 | 0.119 | 6.27 | 103.7 | 2.7 | 0.61 | 3.7 | 0.16 | 2.00 | 0.80 | 45 216 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 32 59.5 N | 120 21.0 W | 13/04/01 | 2138 | UTC | 720 m | 310 | 17 kn | 300 07 08 | 1 | 1019.8 mb | 12.7 C | 11.0 C | 10m | 2/8 | CU | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 12.69 | 12.69 | 33.330 | 25.161 | 279.5 | 0.000 | 6.20 | 102.9 | 3.6 | 0.49 | 2.3 | 0.13 | 2.24 | 0.57 | 0 | |
| 2 | 12.69 | 12.69 | 33.330 | 25.161 | 279.5 | 0.006 | 6.20 | 102.9 | 3.6 | 0.49 | 2.3 | 0.13 | 2.24 | 0.57 | 2 | 220 |
| 10 | 12.68 | 12.68 | 33.330 | 25.163 | 279.5 | 0.028 | 6.18 | 102.5 | 3.5 | 0.47 | 2.3 | 0.13 | 1.83 | 0.53 | 10 | 219 |
| 20 ISL | 12.61 | 12.61 | 33.330 | 25.177 | 278.5 | 0.056 | 6.18 | 102.4 | 3.5 | 0.48 | 2.4 | 0.13 | 1.99 | 0.50 | 20 | |
| 21 | 12.60 | 12.60 | 33.332 | 25.180 | 278.2 | 0.059 | 6.18 | 102.3 | 3.5 | 0.48 | 2.4 | 0.13 | 2.02 | 0.50 | 21 | 218 |
| 30 | 12.54 | 12.54 | 33.382 | 25.231 | 273.6 | 0.083 | 6.22 | 102.9 | 3.9 | 0.51 | 2.7 | 0.16 | 2.07 | 0.57 | 30 | 217 |
| 40 | 11.98 | 11.97 | 33.483 | 25.416 | 256.2 | 0.110 | 6.09 | 99.6 | 6.2 | 0.72 | 5.1 | 0.18 | 2.60 | 0.96 | 40 | 216 |
| 49 | 12.08 | 12.07 | 33.543 | 25.444 | 253.8 | 0.133 | 6.25 | 102.5 | 4.6 | 0.69 | 4.4 | 0.18 | 3.06 | 1.40 | 49 | 215 |
| 50 ISL | 12.06 | 12.05 | 33.544 | 25.449 | 253.3 | 0.135 | 6.25 | 102.5 | 4.7 | 0.70 | 4.5 | 0.18 | 3.02 | 1.56 | 50 | |
| 61 | 11.53 | 11.52 | 33.499 | 25.513 | 247.5 | 0.163 | 5.89 | 95.4 | 7.4 | 0.84 | 6.8 | 0.15 | 2.62 | 2.52 | 61 | 214 |
| 70 | 10.80 | 10.79 | 33.415 | 25.579 | 241.3 | 0.185 | 5.19 | 82.7 | 10.3 | 1.00 | 10.2 | 0.07 | 1.45 | 0.83 | 70 | 213 |
| 75 ISL | 10.41 | 10.40 | 33.394 | 25.630 | 236.5 | 0.197 | 5.01 | 79.2 | 11.7 | 1.08 | 11.7 | 0.05 | 0.87 | 0.57 | 75 | |
| 84 | 9.82 | 9.81 | 33.403 | 25.737 | 226.4 | 0.218 | 4.80 | 74.9 | 14.0 | 1.21 | 14.1 | 0.03 | 0.12 | 0.11 | 84 | 212 |
| 100 | 9.42 | 9.41 | 33.553 | 25.920 | 209.3 | 0.253 | 4.24 | 65.6 | 18.6 | 1.46 | 18.2 | 0.02 | 0.06 | 0.07 | 101 | 211 |
| 120 | 9.21 | 9.20 | 33.737 | 26.098 | 192.8 | 0.293 | 3.64 | 56.1 | 23.7 | 1.69 | 21.9 | 0.02 | 0.03 | 0.10 | 121 | 210 |
| 125 ISL | 9.14 | 9.13 | 33.787 | 26.149 | 188.1 | 0.302 | 3.50 | 53.9 | 25.2 | 1.74 | 22.9 | 0.02 | 0.02 | 0.09 | 126 | |
| 139 | 8.92 | 8.91 | 33.911 | 26.281 | 175.8 | 0.328 | 3.12 | 47.9 | 29.4 | 1.88 | 25.3 | 0.01 | 0.01 | 0.06 | 140 | 209 |
| 150 ISL | 8.77 | 8.75 | 33.965 | 26.347 | 169.7 | 0.347 | 2.85 | 43.6 | 32.0 | 1.98 | 26.7 | 0.01 | 0.01 | 0.07 | 151 | |
| 168 | 8.53 | 8.51 | 34.010 | 26.419 | 163.1 | 0.377 | 2.53 | 38.5 | 35.3 | 2.10 | 28.3 | 0.01 | 0.03 | 0.10 | 169 | 208 |
| 200 | 8.03 | 8.01 | 34.033 | 26.513 | 154.6 | 0.428 | 2.46 | 37.0 | 39.4 | 2.18 | 29.5 | 0.01 | 0.04 | 0.09 | 201 | 207 |
| 229 | 7.58 | 7.56 | 34.071 | 26.609 | 145.8 | 0.471 | 2.02 | 30.1 | 46.1 | 2.38 | 31.8 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.41 | 7.39 | 34.085 | 26.644 | 142.8 | 0.501 | 1.84 | 27.3 | 48.7 | 2.46 | 32.7 | 0.00 | | | 251 | |
| 268 | 7.28 | 7.25 | 34.093 | 26.669 | 140.6 | 0.527 | 1.71 | 25.3 | 50.6 | 2.52 | 33.4 | 0.00 | | | 270 | 205 |
| 300 ISL | 6.89 | 6.86 | 34.109 | 26.736 | 134.6 | 0.571 | 1.41 | 20.7 | 56.7 | 2.66 | 35.3 | 0.00 | | | 302 | |
| 318 | 6.68 | 6.65 | 34.120 | 26.773 | 131.2 | 0.595 | 1.24 | 18.1 | 60.3 | 2.74 | 36.3 | 0.00 | | | 320 | 204 |
| 378 | 6.38 | 6.35 | 34.174 | 26.856 | 124.1 | 0.672 | 0.82 | 11.9 | 67.8 | 2.93 | 38.1 | 0.00 | | | 380 | 203 |
| 400 ISL | 6.26 | 6.22 | 34.191 | 26.885 | 121.5 | 0.699 | 0.70 | 10.1 | 70.5 | 2.98 | 38.7 | 0.00 | | | 403 | |
| 437 | 6.07 | 6.03 | 34.220 | 26.932 | 117.4 | 0.743 | 0.53 | 7.6 | 74.9 | 3.05 | 39.6 | 0.00 | | | 440 | 202 |
| 500 ISL | 5.84 | 5.80 | 34.282 | 27.011 | 110.6 | 0.815 | 0.34 | 4.9 | 81.3 | 3.15 | 40.7 | 0.00 | | | 503 | |
| 515 | 5.78 | 5.74 | 34.297 | 27.030 | 108.9 | 0.831 | 0.29 | 4.1 | 82.8 | 3.18 | 40.9 | 0.00 | | | 519 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| 32 39.3 N | 121 2.0 W | 14/04/01 | 0404 | UTC | 3418 m | 320 | 16 kn | 300 | 1 | 1019.4 mb | 12.0 C | 10.0 C | 10m | 2/8 | CU | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 13.39 | 13.39 | 33.228 | 24.943 | 300.2 | 0.000 | 6.10 | 102.6 | 3.9 | 0.37 | 0.2 | 0.01 | 0.31 | 0.17 | 0 | |
| 3 | 13.39 | 13.39 | 33.228 | 24.943 | 300.2 | 0.009 | 6.10 | 102.6 | 3.9 | 0.37 | 0.2 | 0.01 | 0.31 | 0.17 | 3 | 220 |
| 10 ISL | 13.40 | 13.40 | 33.229 | 24.942 | 300.5 | 0.030 | 6.11 | 102.8 | 3.9 | 0.37 | 0.2 | 0.01 | 0.31 | 0.17 | 10 | |
| 16 | 13.40 | 13.40 | 33.230 | 24.943 | 300.6 | 0.048 | 6.11 | 102.8 | 3.8 | 0.36 | 0.2 | 0.01 | 0.32 | 0.17 | 16 | 219 |
| 20 ISL | 13.40 | 13.40 | 33.229 | 24.943 | 300.8 | 0.060 | 6.10 | 102.7 | 3.8 | 0.36 | 0.2 | 0.01 | 0.33 | 0.16 | 20 | |
| 30 ISL | 13.39 | 13.39 | 33.228 | 24.944 | 300.9 | 0.090 | 6.09 | 102.5 | 3.8 | 0.36 | 0.2 | 0.02 | 0.35 | 0.15 | 30 | |
| 31 | 13.39 | 13.39 | 33.228 | 24.944 | 300.9 | 0.093 | 6.09 | 102.5 | 3.8 | 0.36 | 0.2 | 0.02 | 0.35 | 0.15 | 31 | 218 |
| 45 | 13.35 | 13.34 | 33.228 | 24.953 | 300.5 | 0.135 | 6.11 | 102.7 | 3.7 | 0.37 | 0.2 | 0.02 | 0.35 | 0.15 | 45 | 217 |
| 50 ISL | 13.31 | 13.30 | 33.229 | 24.961 | 299.8 | 0.150 | 6.11 | 102.6 | 3.7 | 0.37 | 0.3 | 0.03 | 0.38 | 0.14 | 50 | |
| 55 | 13.28 | 13.27 | 33.229 | 24.968 | 299.4 | 0.165 | 6.10 | 102.4 | 3.8 | 0.37 | 0.3 | 0.03 | 0.41 | 0.13 | 55 | 216 |
| 65 | 13.28 | 13.27 | 33.229 | 24.968 | 299.6 | 0.195 | 6.10 | 102.4 | 3.8 | 0.37 | 0.3 | 0.03 | 0.44 | 0.12 | 65 | 215 |
| 74 | 12.94 | 12.93 | 33.267 | 25.065 | 290.6 | 0.222 | 5.92 | 98.7 | 4.7 | 0.47 | 1.5 | 0.15 | 0.35 | 0.17 | 74 | 214 |
| 75 ISL | 12.88 | 12.87 | 33.272 | 25.081 | 289.1 | 0.225 | 5.90 | 98.2 | 4.8 | 0.48 | 1.7 | 0.15 | 0.34 | 0.17 | 75 | |
| 85 | 12.15 | 12.14 | 33.312 | 25.253 | 272.9 | 0.253 | 5.66 | 92.8 | 6.2 | 0.64 | 4.4 | 0.19 | 0.22 | 0.21 | 85 | 213 |
| 94 | 11.44 | 11.43 | 33.312 | 25.385 | 260.4 | 0.277 | 5.44 | 87.9 | 7.7 | 0.79 | 7.1 | 0.04 | 0.16 | 0.12 | 94 | 212 |
| 100 ISL | 11.17 | 11.16 | 33.334 | 25.451 | 254.3 | 0.292 | 5.33 | 85.6 | 8.5 | 0.86 | 8.3 | 0.03 | 0.13 | 0.12 | 100 | |
| 110 | 10.85 | 10.84 | 33.378 | 25.542 | 245.7 | 0.317 | 5.16 | 82.3 | 9.9 | 0.95 | 9.8 | 0.02 | 0.09 | 0.11 | 111 | 211 |
| 124 | 10.30 | 10.29 | 33.408 | 25.661 | 234.6 | 0.351 | 4.91 | 77.4 | 12.4 | 1.11 | 12.4 | 0.02 | 0.06 | 0.06 | 125 | 210 |
| 125 ISL | 10.27 | 10.26 | 33.414 | 25.671 | 233.7 | 0.353 | 4.88 | 76.9 | 12.6 | 1.12 | 12.6 | 0.02 | 0.06 | 0.06 | 126 | |
| 144 | 9.76 | 9.74 | 33.580 | 25.886 | 213.5 | 0.396 | 4.30 | 67.1 | 17.4 | 1.38 | 17.0 | 0.01 | 0.02 | 0.07 | 145 | 209 |
| 150 ISL | 9.63 | 9.61 | 33.650 | 25.963 | 206.4 | 0.408 | 4.08 | 63.5 | 19.5 | 1.47 | 18.5 | 0.01 | 0.02 | 0.06 | 151 | |
| 169 | 9.30 | 9.28 | 33.849 | 26.172 | 186.8 | 0.446 | 3.45 | 53.3 | 25.7 | 1.73 | 22.8 | 0.01 | 0.01 | 0.04 | 170 | 208 |
| 198 | 8.93 | 8.91 | 33.930 | 26.295 | 175.6 | 0.498 | 3.16 | 48.5 | 29.7 | 1.88 | 25.2 | 0.00 | 0.01 | 0.05 | 199 | 207 |
| 200 ISL | 8.90 | 8.88 | 33.936 | 26.304 | 174.7 | 0.502 | 3.14 | 48.1 | 30.1 | 1.89 | 25.4 | 0.00 | | | 201 | |
| 229 | 8.41 | 8.39 | 34.021 | 26.447 | 161.6 | 0.550 | 2.76 | 41.9 | 35.8 | 2.06 | 27.8 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.13 | 8.10 | 34.058 | 26.519 | 155.0 | 0.584 | 2.42 | 36.5 | 39.9 | 2.20 | 29.5 | 0.00 | | | 251 | |
| 267 | 7.94 | 7.91 | 34.077 | 26.562 | 151.2 | 0.610 | 2.16 | 32.4 | 43.0 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|-----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.33 | 13.33 | 33.314 | 25.022 | 292.7 | 0.000 | 6.15 | 103.4 | 3.5 | 0.37 | 0.3 | 0.03 | 0.40 | 0.12 | 0 | | |
| 2 | 13.33 | 13.33 | 33.314 | 25.022 | 292.8 | 0.006 | 6.15 | 103.4 | 3.5 | 0.37 | 0.3 | 0.03 | 0.40 | 0.12 | 2 | 224 | |
| 10 ISL | 13.33 | 13.33 | 33.314 | 25.022 | 293.0 | 0.029 | 6.14 | 103.2 | 3.5 | 0.37 | 0.3 | 0.03 | 0.40 | 0.13 | 10 | | |
| 14 | 13.33 | 13.33 | 33.314 | 25.022 | 293.0 | 0.041 | 6.13 | 103.1 | 3.5 | 0.37 | 0.3 | 0.03 | 0.40 | 0.14 | 14 | 219 | |
| 20 ISL | 13.33 | 13.33 | 33.314 | 25.022 | 293.2 | 0.059 | 6.13 | 103.1 | 3.5 | 0.37 | 0.3 | 0.03 | 0.37 | 0.12 | 20 | | |
| 30 | 13.34 | 13.34 | 33.315 D | 25.021 | 293.6 | 0.088 | 6.15 | 103.4 | 3.5 | 0.36 | 0.3 | 0.03 | 0.34 A | 0.09 A | 30 | 218 | |
| 45 | 13.33 | 13.32 | 33.316 | 25.025 | 293.7 | 0.132 | 6.16 | 103.6 | 3.5 | 0.37 | 0.3 | 0.04 | 0.45 | 0.10 | 45 | 217 | |
| 50 ISL | 13.32 | 13.31 | 33.318 | 25.028 | 293.4 | 0.147 | 6.14 | 103.2 | 3.5 | 0.37 | 0.4 | 0.04 | 0.49 | 0.11 | 50 | | |
| 55 | 13.31 | 13.30 | 33.320 | 25.032 | 293.2 | 0.161 | 6.13 | 103.0 | 3.4 | 0.37 | 0.4 | 0.04 | 0.52 | 0.12 | 55 | 216 | |
| 65 | 13.10 | 13.09 | 33.408 | 25.142 | 283.0 | 0.190 | 5.90 | 98.8 | 4.7 | 0.49 | 1.8 | 0.15 | 0.51 | 0.24 | 65 | 215 | |
| 75 | 12.40 | 12.39 | 33.395 | 25.269 | 271.1 | 0.218 | 5.62 | 92.7 | 6.5 | 0.66 | 4.6 | 0.31 | 0.34 | 0.21 | 75 | 214 | |
| 85 | 11.61 | 11.60 | 33.399 | 25.421 | 256.8 | 0.244 | 5.28 | 85.6 | 8.3 | 0.83 | 7.6 | 0.10 | 0.19 | 0.15 | 85 | 213 | |
| 95 | 11.28 | 11.27 | 33.436 | 25.510 | 248.5 | 0.269 | 5.09 | 82.0 | 9.1 | 0.90 | 8.8 | 0.10 | 0.16 | 0.16 | 95 | 212 | |
| 100 ISL | 11.00 | 10.99 | 33.448 | 25.570 | 242.9 | 0.282 | 4.99 | 79.9 | 10.0 | 0.97 | 10.0 | 0.08 | 0.15 | 0.16 | 100 | | |
| 110 | 10.44 | 10.43 | 33.493 | 25.703 | 230.4 | 0.305 | 4.69 | 74.2 | 12.8 | 1.15 | 13.1 | 0.04 | 0.12 | 0.14 | 111 | 211 | |
| 124 | 9.96 | 9.95 | 33.657 | 25.913 | 210.7 | 0.336 | 3.98 | 62.4 | 18.8 | 1.48 | 18.4 | 0.02 | 0.06 | 0.09 | 125 | 210 | |
| 125 ISL | 9.94 | 9.93 | 33.666 | 25.923 | 209.7 | 0.338 | 3.95 | 61.9 | 19.1 | 1.49 | 18.6 | 0.02 | 0.06 | 0.09 | 126 | | |
| 144 | 9.63 | 9.61 | 33.787 | 26.070 | 196.1 | 0.377 | 3.48 | 54.2 | 23.4 | 1.69 | 21.8 | 0.01 | 0.03 | 0.06 | 145 | 209 | |
| 150 ISL | 9.51 | 9.49 | 33.815 | 26.111 | 192.3 | 0.389 | 3.39 | 52.7 | 24.6 | 1.74 | 22.6 | 0.01 | 0.02 | 0.06 | 151 | | |
| 169 | 9.16 | 9.14 | 33.888 | 26.225 | 181.7 | 0.424 | 3.17 | 48.9 | 28.0 | 1.87 | 24.6 | 0.01 | 0.01 | 0.05 | 170 | 208 | |
| 198 | 8.77 | 8.75 | 33.995 | 26.371 | 168.4 | 0.475 | 2.80 | 42.8 | 33.0 | 2.00 | 26.9 | 0.00 | 0.02 | 0.07 | 199 | 207 | |
| 200 ISL | 8.75 | 8.73 | 34.000 | 26.378 | 167.7 | 0.478 | 2.78 | 42.5 | 33.3 | 2.01 | 27.0 | 0.00 | | | 201 | | |
| 228 | 8.39 | 8.37 | 34.051 | 26.474 | 159.0 | 0.524 | 2.46 | 37.3 | 37.6 | 2.16 | 28.8 | 0.00 | | | 229 | 206 | |
| 250 ISL | 8.00 | 7.97 | 34.068 | 26.546 | 152.4 | 0.558 | 2.25 | 33.8 | 41.8 | 2.27 | 30.3 | 0.00 | | | 251 | | |
| 268 | 7.69 | 7.66 | 34.079 | 26.600 | 147.4 | 0.585 | 2.08 | 31.1 | 45.4 | 2.36 | 31.5 | 0.00 | | | 270 | 205 | |
| 300 ISL | 7.39 | 7.36 | 34.117 | 26.673 | 140.9 | 0.631 | 1.68 | 24.9 | 51.0 | 2.53 | 33.4 | 0.00 | | | 302 | | |
| 318 | 7.26 | 7.23 | 34.137 | 26.707 | 137.9 | 0.656 | 1.47 | 21.7 | 53.8 | 2.62 | 34.3 | 0.00 | | | 320 | 204 | |
| 377 | 6.76 | 6.73 | 34.158 | 26.793 | 130.3 | 0.736 | 1.09 | 15.9 | 61.4 | 2.79 | 36.5 | 0.00 | | | 379 | 203 | |
| 400 ISL | 6.56 | 6.52 | 34.179 | 26.836 | 126.4 | 0.765 | 0.91 | 13.2 | 65.4 | 2.88 | 37.5 | 0.00 | | | 403 | | |
| 438 | 6.26 | 6.22 | 34.220 | 26.908 | 119.9 | 0.812 | 0.61 | 8.8 | 72.1 | 3.02 | 39.1 | 0.00 | | | 441 | 202 | |
| 500 ISL | 5.93 | 5.89 | 34.279 | 26.997 | 112.0 | 0.884 | | | | 79.8 | 3.13 | 40.5 | 0.00 | | | 503 | |
| 516 | 5.85 | 5.81 | 34.295 | 27.020 | 110.0 | 0.902 | | | | 81.8 | 3.16 | 40.8 | 0.00 | | | 520 | 201 |

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.90 | 13.90 | 33.261 | 24.865 | 307.6 | 0.000 | 6.01 | 102.2 | 3.4 | 0.34 | 0.1 | 0.00 | 0.23 | 0.05 | 0 | |
| 1 B | 13.90 | 13.90 | 33.261 | 24.865 | 307.7 | 0.003 | 6.01 | 102.2 | 3.4 | 0.34 | 0.1 | 0.00 | 0.23 | 0.05 | 1 | 222 |
| 10 ISL | 13.95 | 13.95 | 33.282 | 24.871 | 307.3 | 0.031 | 6.01 | 102.3 | 3.3 | 0.34 | 0.0 | 0.00 | 0.26 | 0.05 | 10 | |
| 16 B | 13.98 | 13.98 | 33.297 | 24.877 | 307.0 | 0.049 | 6.01 | 102.4 | 3.3 | 0.34 | 0.0 | 0.00 | 0.28 A | 0.05 A | 16 | 221 |
| 20 ISL | 14.05 | 14.05 | 33.316 | 24.877 | 307.1 | 0.061 | 5.99 | 102.2 | 3.3 | 0.34 | 0.0 | 0.00 | 0.28 | 0.05 | 20 | |
| 24 | 14.12 | 14.12 | 33.337 | 24.879 | 307.0 | 0.074 | 5.96 | 101.9 | 3.3 | 0.33 | 0.1 | 0.00 | 0.27 | 0.05 | 24 | 220 |
| 30 ISL | 14.21 | 14.21 | 33.370 | 24.885 | 306.6 | 0.092 | 5.95 | 101.9 | 3.2 | 0.32 | 0.1 | 0.00 | 0.25 | 0.06 | 30 | |
| 33 B | 14.23 | 14.23 | 33.381 | 24.890 | 306.2 | 0.101 | 5.94 | 101.8 | 3.2 | 0.32 | 0.1 | 0.00 | 0.24 | 0.06 | 33 | 219 |
| 43 | 14.09 | 14.08 | 33.348 | 24.894 | 306.1 | 0.132 | 5.97 | 102.0 | 3.2 | 0.33 | 0.1 | 0.00 | 0.28 | 0.05 | 43 | 218 |
| 50 ISL | 13.72 | 13.71 | 33.247 | 24.892 | 306.4 | 0.153 | 6.04 | 102.3 | 3.3 | 0.34 | 0.1 | 0.01 | 0.33 | 0.08 | 50 | |
| 54 B | 13.53 | 13.52 | 33.195 | 24.891 | 306.6 | 0.166 | 6.07 | 102.4 | 3.4 | 0.35 | 0.1 | 0.01 | 0.34 | 0.09 | 54 | 217 |
| 60 | 13.49 | 13.48 | 33.187 | 24.893 | 306.6 | 0.184 | 6.06 | 102.1 | 3.4 | 0.36 | 0.1 | 0.01 | 0.29 | 0.16 | 60 | 216 |
| 67 B | 13.40 | 13.39 | 33.175 | 24.902 | 305.9 | 0.205 | 6.08 | 102.3 | 3.4 | 0.36 | 0.1 | 0.01 | 0.36 | 0.10 | 67 | 215 |
| 75 ISL | 13.30 | 13.29 | 33.192 | 24.935 | 303.0 | 0.230 | 6.07 | 101.9 | 3.5 | 0.37 | 0.2 | 0.02 | 0.37 | 0.13 | 75 | |
| 78 | 13.27 | 13.26 | 33.200 | 24.948 | 301.9 | 0.239 | 6.07 | 101.8 | 3.5 | 0.38 | 0.3 | 0.03 | 0.37 | 0.14 | 78 | 214 |
| 86 | 13.19 | 13.18 | 33.205 | 24.968 | 300.2 | 0.263 | 6.06 | 101.5 | 3.6 | 0.38 | 0.3 | 0.03 | 0.34 | 0.17 | 86 | 213 |
| 95 B | 13.12 | 13.11 | 33.202 | 24.980 | 299.3 | 0.290 | 6.04 | 101.0 | 3.7 | 0.41 | 0.5 | 0.05 | 0.36 | 0.11 | 95 | 212 |
| 100 ISL | 12.77 | 12.76 | 33.220 | 25.063 | 291.5 | 0.305 | 5.93 | 98.5 | 4.4 | 0.49 | 1.7 | 0.10 | 0.33 | 0.14 | 100 | |
| 110 | 11.93 | 11.92 | 33.270 | 25.262 | 272.6 | 0.333 | 5.65 | 92.2 | 6.2 | 0.66 | 4.6 | 0.17 | 0.23 | 0.22 | 110 | 211 |
| 125 | 11.18 | 11.16 | 33.315 | 25.435 | 256.4 | 0.373 | 5.39 | 86.6 | 7.9 | 0.81 | 7.5 | 0.04 | 0.15 | 0.10 | 126 | 210 |
| 145 | 9.85 | 9.83 | 33.401 | 25.732 | 228.2 | 0.421 | 4.87 | 76.0 | 13.3 | 1.18 | 13.5 | 0.01 | 0.06 | 0.08 | 146 | 209 |
| 150 ISL | 9.67 | 9.65 | 33.466 | 25.812 | 220.7 | 0.432 | 4.66 | 72.5 | 15.2 | 1.28 | 15.2 | 0.01 | 0.05 | 0.07 | 151 | |
| 169 | 9.24 | 9.22 | 33.731 | 26.089 | 194.6 | 0.472 | 3.88 | 59.9 | 22.3 | 1.60 | 20.7 | 0.00 | 0.01 | 0.03 | 170 | 208 |
| 199 | 8.84 | 8.82 | 33.940 | 26.317 | 173.5 | 0.527 | 3.42 | 52.4 | 28.6 | 1.79 | 24.2 | 0.00 | | | 200 | 207 |
| 200 ISL | 8.83 | 8.81 | 33.943 | 26.321 | 173.2 | 0.529 | 3.42 | 52.4 | 28.7 | 1.79 | 24.2 | 0.00 | | | 201 | |
| 229 | 8.58 | 8.56 | 33.990 | 26.397 | 166.4 | 0.578 | 3.52 | 53.6 | 30.5 | 1.79 | 24.7 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.20 | 8.17 | 34.018 | 26.477 | 159.0 | 0.612 | 3.04 | 45.9 | 35.9 | 1.99 | 27.4 | 0.00 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 39.7 N | 123 4.2 W | 14/04/01 | 2231 | UTC | 4123 m | 320 | 05 kn | 050 03 09 | 1 | 1021.1 mb | 14.8 C | 11.2 C | 45m | 4/8 | | ST |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | db | | | |
| 0 ISL | 15.21 | 15.21 | 33.538 | 24.800 | 313.8 | 0.000 | 5.80 | 101.5 | 3.4 | 0.30 | 0.0 | 0.00 | 0.11 | 0.00 | 0 | |
| 3 | 15.21 | 15.21 | 33.538 | 24.800 | 313.9 | 0.009 | 5.80 | 101.5 | 3.4 | 0.30 | 0.0 | 0.00 | 0.11 | 0.00 | 3 | 220 |
| 10 ISL | 15.15 | 15.15 | 33.537 | 24.813 | 312.9 | 0.031 | 5.81 | 101.5 | 3.4 | 0.30 | 0.0 | 0.00 | 0.10 | 0.01 | 10 | |
| 17 | 15.07 | 15.07 | 33.536 | 24.829 | 311.5 | 0.053 | 5.83 | 101.7 | 3.3 | 0.30 | 0.0 | 0.00 | 0.09 | 0.02 | 17 | 219 |
| 20 ISL | 15.07 | 15.07 | 33.536 | 24.830 | 311.6 | 0.063 | 5.83 | 101.7 | 3.3 | 0.30 | 0.0 | 0.00 | 0.09 | 0.02 | 20 | |
| 30 ISL | 15.06 | 15.06 | 33.535 | 24.831 | 311.7 | 0.094 | 5.82 | 101.5 | 3.2 | 0.29 | 0.0 | 0.00 | 0.10 | 0.02 | 30 | |
| 32 | 15.06 | 15.06 | 33.535 | 24.831 | 311.8 | 0.100 | 5.82 | 101.5 | 3.2 | 0.29 | 0.0 | 0.00 | 0.10 | 0.02 | 32 | 218 |
| 47 | 15.05 | 15.04 | 33.535 | 24.834 | 312.0 | 0.147 | 5.80 | 101.1 | 3.2 | 0.31 | 0.0 | 0.00 | 0.10 | 0.01 | 47 | 217 |
| 50 ISL | 15.05 | 15.04 | 33.535 | 24.834 | 312.1 | 0.156 | 5.80 | 101.1 | 3.2 | 0.31 | 0.0 | 0.00 | 0.10 | 0.01 | 50 | |
| 62 | 15.04 | 15.03 | 33.535 | 24.837 | 312.2 | 0.194 | 5.82 | 101.5 | 3.1 | 0.29 | 0.0 | 0.00 | 0.12 | 0.02 | 62 | 216 |
| 75 ISL | 15.04 | 15.03 | 33.536 | 24.838 | 312.5 | 0.234 | 5.81 | 101.3 | 3.1 | 0.29 | 0.0 | 0.00 | 0.12 | 0.03 | 75 | |
| 76 | 15.04 | 15.03 | 33.536 | 24.838 | 312.5 | 0.237 | 5.81 | 101.3 | 3.1 | 0.29 | 0.0 | 0.00 | 0.12 | 0.03 | 76 | 215 |
| 86 | 15.03 | 15.02 | 33.535 | 24.840 | 312.7 | 0.269 | 5.82 | 101.4 | 3.2 | 0.29 | 0.0 | 0.00 | 0.13 | 0.03 | 86 | 214 |
| 96 | 13.98 | 13.97 | 33.462 | 25.006 | 296.9 | 0.299 | 5.84 | 99.6 | 3.6 | 0.34 | 0.2 | 0.01 | 0.45 | 0.21 | 96 | 213 |
| 100 ISL | 13.37 | 13.36 | 33.411 | 25.092 | 288.8 | 0.311 | 5.80 | 97.6 | 4.1 | 0.41 | 1.0 | 0.04 | 0.42 | 0.22 | 100 | |
| 106 | 12.43 | 12.42 | 33.353 | 25.232 | 275.5 | 0.328 | 5.69 | 93.9 | 5.1 | 0.54 | 2.7 | 0.08 | 0.38 | 0.23 | 106 | 212 |
| 115 | 11.38 | 11.37 | 33.374 | 25.444 | 255.3 | 0.352 | 5.47 | 88.3 | 6.4 | 0.69 | 5.5 | 0.04 | 0.26 | 0.21 | 116 | 211 |
| 125 ISL | 11.13 | 11.11 | 33.467 | 25.562 | 244.3 | 0.377 | 5.28 | 84.8 | 7.7 | 0.77 | 7.2 | 0.03 | 0.19 | 0.14 | 126 | |
| 126 | 11.13 | 11.11 | 33.477 | 25.570 | 243.6 | 0.379 | 5.26 | 84.5 | 7.8 | 0.78 | 7.3 | 0.03 | 0.19 | 0.13 | 127 | 210 |
| 141 | 10.49 | 10.47 | 33.528 | 25.722 | 229.2 | 0.414 | 5.01 | 79.4 | 10.5 | 0.95 | 10.4 | 0.02 | 0.11 | 0.08 | 142 | 209 |
| 150 ISL | 10.18 | 10.16 | 33.532 | 25.779 | 224.0 | 0.435 | 4.81 | 75.7 | 12.4 | 1.08 | 12.5 | 0.02 | 0.09 | 0.08 | 151 | |
| 165 | 9.77 | 9.75 | 33.555 | 25.866 | 215.9 | 0.468 | 4.42 | 68.9 | 16.1 | 1.31 | 16.1 | 0.01 | 0.06 | 0.08 | 166 | 208 |
| 195 | 9.26 | 9.24 | 33.841 | 26.173 | 187.3 | 0.528 | 3.50 | 54.1 | 25.2 | 1.71 | 22.7 | 0.00 | 0.00 | 0.02 | 196 | 207 |
| 200 ISL | 9.18 | 9.16 | 33.873 | 26.211 | 183.8 | 0.538 | 3.41 | 52.6 | 26.3 | 1.75 | 23.3 | 0.00 | | | 201 | |
| 230 | 8.69 | 8.67 | 33.998 | 26.386 | 167.5 | 0.590 | 3.05 | 46.6 | 32.0 | 1.92 | 25.9 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.30 | 8.27 | 34.033 | 26.474 | 159.4 | 0.623 | 2.84 | 43.0 | 36.0 | 2.03 | 27.4 | 0.00 | | | 251 | |
| 270 | 7.93 | 7.90 | 34.047 | 26.540 | 153.3 | 0.654 | 2.65 | 39.8 | 39.8 | 2.14 | 28.8 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.52 | 7.49 | 34.057 | 26.608 | 147.2 | 0.699 | 2.37 | 35.2 | 44.5 | 2.28 | 30.7 | 0.00 | | | 302 | |
| 320 | 7.28 | 7.25 | 34.058 | 26.642 | 144.0 | 0.728 | 2.17 | 32.1 | 47.7 | 2.37 | 31.9 | 0.00 | | | 322 | 204 |
| 379 | 6.45 | 6.42 | 34.080 | 26.772 | 132.0 | 0.810 | 1.48 | 21.5 | 61.0 | 2.69 | 36.1 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.26 | 6.22 | 34.097 | 26.811 | 128.5 | 0.837 | 1.27 | 18.3 | 64.9 | 2.78 | 37.2 | 0.00 | | | 402 | |
| 438 | 5.98 | 5.94 | 34.131 | 26.873 | 122.9 | 0.885 | 0.94 | 13.5 | 71.4 | 2.91 | 38.9 | 0.00 | | | 441 | 202 |
| 500 ISL | 5.52 | 5.48 | 34.168 | 26.960 | 115.1 | 0.959 | 0.66 | 9.4 | 81.1 | 3.05 | 40.8 | 0.00 | | | 503 | |
| 517 | 5.39 | 5.35 | 34.179 | 26.984 | 112.8 | 0.978 | 0.58 | 8.2 | 83.8 | 3.09 | 41.3 | 0.00 | | | 520 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 87 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 19.5 N | 123 44.6 W | 15/04/01 | 0446 | UTC | 4006 m | 300 | 04 kn | 050 03 09 | 1 | 1020.9 mb | 13.3 C | 10.0 C | 45m | 4/8 | | ST |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | db | | | |
| 0 ISL | 15.33 | 15.33 | 33.507 | 24.750 | 318.6 | 0.000 | 5.84 | 102.4 | 3.7 | 0.33 | 0.0 | 0.00 | 0.08 | 0.02 | 0 | |
| 4 | 15.33 | 15.33 | 33.507 | 24.750 | 318.7 | 0.013 | 5.84 | 102.4 | 3.7 | 0.33 | 0.0 | 0.00 | 0.08 | 0.02 | 4 | 224 |
| 10 ISL | 15.15 | 15.15 | 33.503 | 24.786 | 315.4 | 0.032 | 5.85 | 102.2 | 3.7 | 0.33 | 0.0 | 0.00 | 0.08 | 0.02 | 10 | |
| 17 | 14.91 | 14.91 | 33.497 | 24.834 | 311.1 | 0.054 | 5.86 | 101.9 | 3.6 | 0.32 | 0.0 | 0.00 | 0.08 | 0.02 | 17 | 220 |
| 20 ISL | 14.90 | 14.90 | 33.496 | 24.836 | 311.0 | 0.063 | 5.86 | 101.9 | 3.6 | 0.32 | 0.0 | 0.00 | 0.08 | 0.02 | 20 | |
| 30 ISL | 14.88 | 14.88 | 33.491 | 24.836 | 311.3 | 0.094 | 5.85 | 101.6 | 3.6 | 0.32 | 0.0 | 0.00 | 0.10 | 0.03 | 30 | |
| 31 | 14.88 | 14.88 | 33.491 | 24.836 | 311.3 | 0.097 | 5.85 | 101.6 | 3.6 | 0.32 | 0.0 | 0.00 | 0.10 | 0.03 | 31 | 219 |
| 47 | 14.85 | 14.84 | 33.485 | 24.839 | 311.5 | 0.147 | 5.85 | 101.6 | 3.5 | 0.33 | 0.0 | 0.00 | 0.11 | 0.03 | 47 | 218 |
| 50 ISL | 14.84 | 14.83 | 33.484 | 24.840 | 311.5 | 0.156 | 5.86 | 101.7 | 3.5 | 0.33 | 0.0 | 0.00 | 0.11 | 0.03 | 50 | |
| 62 | 14.68 | 14.67 | 33.446 | 24.846 | 311.3 | 0.194 | 5.88 | 101.7 | 3.7 | 0.33 | 0.0 | 0.00 | 0.18 | 0.04 | 62 | 217 |
| 75 ISL | 14.18 | 14.17 | 33.386 | 24.906 | 305.9 | 0.234 | 5.90 | 101.0 | 3.8 | 0.36 | 0.1 | 0.01 | 0.38 | 0.19 | 75 | |
| 76 | 14.13 | 14.12 | 33.384 | 24.914 | 305.1 | 0.237 | 5.90 | 100.9 | 3.8 | 0.36 | 0.1 | 0.01 | 0.40 | 0.20 | 76 | 216 |
| 85 | 13.62 | 13.61 | 33.430 | 25.055 | 291.9 | 0.264 | 5.74 | 97.1 | 4.6 | 0.45 | 1.4 | 0.08 | 0.50 | 0.31 | 85 | 215 |
| 97 | 12.11 | 12.10 | 33.357 | 25.295 | 269.1 | 0.297 | 5.63 | 92.3 | 5.9 | 0.62 | 3.7 | 0.07 | 0.39 | 0.36 | 97 | 214 |
| 100 ISL | 11.81 | 11.81 | 33.359 | 25.351 | 263.8 | 0.305 | 5.57 | 90.7 | 6.3 | 0.66 | 4.4 | 0.06 | 0.37 | 0.33 | 100 | |
| 106 | 11.33 | 11.32 | 33.370 | 25.450 | 254.5 | 0.321 | 5.44 | 87.7 | 7.1 | 0.74 | 5.9 | 0.03 | 0.32 | 0.25 | 106 | 213 |
| 116 | 10.70 | 10.69 | 33.364 | 25.557 | 244.4 | 0.346 | 5.31 | 84.4 | 8.8 | 0.87 | 8.2 | 0.02 | 0.19 | 0.19 | 117 | 212 |
| 125 ISL | 10.35 | 10.34 | 33.396 | 25.643 | 236.4 | 0.368 | 5.21 | 82.2 | 9.9 | 0.95 | 9.7 | 0.01 | 0.14 | 0.13 | 126 | |
| 132 | 10.13 | 10.11 | 33.442 | 25.717 | 229.5 | 0.384 | 5.07 | 79.7 | 11.2 | 1.03 | 11.2 | 0.01 | 0.12 | 0.09 | 133 | 211 |
| 139 | 9.85 | 9.83 | 33.503 | 25.811 | 220.6 | 0.400 | 4.79 | 74.8 | 13.9 | 1.18 | 13.7 | 0.01 | 0.08 | 0.08 | 140 | 210 |
| 150 ISL | 9.62 | 9.60 | 33.600 | 25.925 | 209.9 | 0.423 | 4.36 | 67.8 | 17.5 | 1.37 | 16.9 | 0.01 | 0.04 | 0.06 | 151 | |
| 165 | 9.44 | 9.42 | 33.726 | 26.053 | 198.0 | 0.454 | 3.83 | 59.4 | 21.9 | 1.59 | 20.4 | 0.00 | 0.02 | 0.03 | 166 | 209 |
| 195 | 8.90 | 8.88 | 33.937 | 26.305 | 174.6 | 0.510 | 3 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 28

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|----------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.65 | 14.65 | 33.385 | 24.803 | 313.5 | 0.000 | 7.00 | 121.0 | 3.3 | 0.26 | 0.1 | 0.02 | 3.02 | 0.63 | 0 | |
| 1 | 14.65 | 14.65 | 33.385 | 24.803 | 313.5 | 0.003 | 7.00 | 121.0 | 3.3 | 0.26 | 0.1 | 0.02 | 3.02 | A 0.63 A | 1 | 208 |
| 5 | 14.61 | 14.61 | 33.383 | 24.810 | 313.0 | 0.016 | 6.93 | 119.7 | 3.3 | 0.26 | 0.1 | 0.02 | 3.08 | 0.74 | 5 | 207 |
| 10 | 14.27 | 14.27 | 33.408 | 24.902 | 304.4 | 0.031 | 6.88 | 118.0 | 2.3 | 0.25 | 0.1 | 0.01 | 5.32 | 1.04 | 10 | 206 |
| 20 | 12.56 | 12.56 | 33.545 | 25.353 | 261.7 | 0.059 | 4.86 | 80.5 | 9.1 | 0.85 | 6.5 | 0.46 | 2.45 | 0.79 | 20 | 205 |
| 30 | 11.76 | 11.76 | 33.598 | 25.547 | 243.5 | 0.085 | 4.08 | 66.5 | 13.5 | 1.21 | 13.0 | 0.37 | 0.69 | 0.43 | 30 | 204 |
| 40 | 11.20 | 11.20 | 33.671 | 25.706 | 228.6 | 0.108 | 3.51 | 56.5 | 17.6 | 1.50 | 17.3 | 0.19 | 0.40 | 0.30 | 40 | 203 |
| 50 | 10.73 | 10.72 | 33.744 | 25.847 | 215.4 | 0.130 | 3.12 | 49.8 | 21.7 | 1.72 | 20.0 | 0.20 | 0.22 | 0.28 | 50 | 202 |
| 61 | 10.46 | 10.45 | 33.822 | 25.955 | 205.3 | 0.154 | 2.86 | 45.4 | 24.6 | 1.86 | 21.8 | 0.15 | 0.13 | 0.21 | 61 | 201 |

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 30

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|------|--------|----------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.89 | 14.89 | 33.433 | 24.789 | 314.9 | 0.000 | 6.33 | 110.0 | 2.1 | 0.19 | 0.1 | 0.00 | 1.22 | 0.30 | 0 | |
| 2 | 14.89 | 14.89 | 33.433 | 24.799 | 315.0 | 0.006 | 6.33 | 110.0 | 2.1 | 0.19 | 0.1 | 0.00 | 1.22 | 0.30 | 2 | 220 |
| 10 ISL | 14.87 | 14.87 | 33.433 | 24.793 | 314.8 | 0.031 | 6.31 | 109.6 | 1.9 | 0.18 | 0.1 | 0.00 | 1.24 | 0.32 | 10 | |
| 11 | 14.87 | 14.87 | 33.433 | 24.793 | 314.8 | 0.035 | 6.31 | 109.6 | 1.9 | 0.18 | 0.1 | 0.00 | 1.24 | 0.32 | 11 | 219 |
| 20 | 13.69 | 13.69 | 33.503 | 25.095 | 286.2 | 0.062 | 5.96 | 101.1 | 3.5 | 0.34 | 0.4 | 0.04 | 1.96 | 0.95 | 20 | 218 |
| 30 | 12.50 | 12.50 | 33.546 | 25.366 | 260.8 | 0.089 | 4.71 | 77.9 | 9.7 | 0.94 | 8.2 | 0.37 | 0.80 | 0.47 | 30 | 217 |
| 40 | 11.45 | 11.45 | 33.652 | 25.646 | 234.3 | 0.114 | 3.74 | 60.6 | 16.1 | 1.36 | 15.6 | 0.12 | 0.40 | 0.42 | 40 | 216 |
| 50 | 10.84 | 10.83 | 33.741 | 25.825 | 217.5 | 0.136 | 3.25 | 52.0 | 20.3 | 1.61 | 19.1 | 0.03 | 0.13 | 0.22 | 50 | 215 |
| 60 | 10.48 | 10.47 | 33.810 | 25.942 | 206.5 | 0.158 | 3.03 | 48.1 | 23.0 | 1.73 | 21.1 | 0.01 | 0.06 | 0.15 | 60 | 214 |
| 70 | 10.27 | 10.26 | 33.852 | 26.011 | 200.2 | 0.178 | 2.91 | 46.0 | 24.6 | 1.81 | 22.1 | 0.01 | 0.04 | 0.11 | 70 | 213 |
| 75 ISL | 10.14 | 10.13 | 33.869 | 26.047 | 196.9 | 0.188 | 2.90 | 45.7 | 25.2 | 1.83 | 22.5 | 0.01 | 0.03 | 0.10 | 75 | |
| 85 | 9.88 | 9.87 | 33.901 | 26.116 | 190.5 | 0.207 | 2.89 | 45.3 | 26.4 | 1.87 | 23.4 | 0.01 | 0.01 | 0.08 | 85 | 212 |
| 100 | 9.62 | 9.61 | 33.958 | 26.204 | 182.4 | 0.235 | 2.73 | 42.6 | 28.7 | 1.95 | 24.8 | 0.01 | 0.01 | 0.07 | 101 | 211 |
| 120 | 9.47 | 9.46 | 34.054 | 26.304 | 173.4 | 0.271 | 2.34 | 36.4 | 32.2 | 2.09 | 26.4 | 0.01 | 0.01 | 0.05 | 121 | 210 |
| 125 ISL | 9.42 | 9.41 | 34.061 | 26.318 | 172.1 | 0.279 | 2.32 | 36.0 | 32.6 | 2.10 | 26.5 | 0.01 | 0.01 | 0.05 | 126 | |
| 140 | 9.29 | 9.27 | 34.072 | 26.348 | 169.6 | 0.305 | 2.30 | 35.6 | 33.5 | 2.13 | 26.9 | 0.01 | -0.01 | U 0.08 U | 141 | 209 |
| 150 ISL | 9.23 | 9.21 | 34.102 | 26.381 | 166.6 | 0.322 | 2.17 | 33.6 | 34.8 | 2.20 | 27.5 | 0.01 | 0.01 | 0.05 | 151 | |
| 169 | 9.09 | 9.07 | 34.160 | 26.449 | 160.5 | 0.353 | 1.88 | 29.0 | 37.5 | 2.34 | 28.7 | 0.01 | 0.01 | 0.05 | 170 | 208 |
| 200 ISL | 8.63 | 8.61 | 34.176 | 26.535 | 152.9 | 0.401 | 1.70 | 25.9 | 41.5 | 2.41 | 30.2 | 0.01 | 0.01 | 0.04 | 201 | |
| 201 | 8.61 | 8.59 | 34.176 | 26.538 | 152.6 | 0.403 | 1.70 | 25.9 | 41.6 | 2.41 | 30.2 | 0.01 | 0.01 | 0.04 | 202 | 207 |
| 230 | 8.15 | 8.13 | 34.166 | 26.600 | 147.0 | 0.446 | 1.62 | 24.5 | 45.4 | 2.49 | 31.5 | 0.01 | | | 231 | 206 |
| 250 ISL | 7.93 | 7.90 | 34.165 | 26.632 | 144.2 | 0.476 | 1.55 | 23.3 | 47.5 | 2.56 | 32.2 | 0.01 | | | 252 | |
| 270 | 7.75 | 7.72 | 34.168 | 26.661 | 141.7 | 0.504 | 1.47 | 22.0 | 49.6 | 2.62 | 32.9 | 0.01 | | | 272 | 205 |
| 300 ISL | 7.48 | 7.45 | 34.179 | 26.709 | 137.5 | 0.546 | 1.29 | 19.2 | 53.4 | 2.70 | 34.0 | 0.01 | | | 302 | |
| 320 | 7.31 | 7.28 | 34.191 | 26.743 | 134.6 | 0.573 | 1.15 | 17.0 | 56.1 | 2.75 | 34.7 | 0.01 | | | 322 | 204 |
| 377 | 6.93 | 6.89 | 34.240 | 26.835 | 126.5 | 0.648 | 0.72 | 10.6 | 63.9 | 2.94 | 36.9 | 0.01 | | | 379 | 203 |
| 400 ISL | 6.83 | 6.79 | 34.251 | 26.857 | 124.7 | 0.677 | 0.63 | 9.2 | 65.8 | 2.98 | 37.4 | 0.01 | | | 403 | |
| 434 | 6.69 | 6.65 | 34.266 | 26.888 | 122.2 | 0.719 | 0.54 | 7.9 | 68.6 | 3.05 | 38.0 | 0.01 | | | 437 | 202 |
| 500 ISL | 6.20 | 6.16 | 34.309 | 26.987 | 113.3 | 0.796 | 0.32 | 4.6 | 77.9 | 3.05 | 39.7 | 0.01 | | | 504 | |
| 507 | 6.15 | 6.10 | 34.314 | 26.997 | 112.4 | 0.804 | 0.30 | 4.3 | 78.9 | 3.51 | U 39.9 | 0.01 | | | 511 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.75 | 14.75 | 33.501 | 24.871 | 307.0 | 0.000 | 6.12 | 106.1 | 2.6 | 0.25 | 0.0 | 0.01 | 0.84 | 0.21 | 0 | |
| 1 | 14.75 | 14.75 | 33.501 | 24.871 | 307.0 | 0.003 | 6.12 | 106.1 | 2.6 | 0.25 | 0.0 | 0.01 | 0.84 | 0.21 | 1 | 217 |
| 10 | 14.35 | 14.35 | 33.510 | 24.964 | 298.5 | 0.030 | 5.99 | 103.0 | 3.6 | 0.29 | 0.0 | 0.01 | 0.59 | 0.28 | 10 | 216 |
| 20 | 13.87 | 13.87 | 33.509 | 25.063 | 289.3 | 0.060 | 5.82 | 99.1 | 4.2 | 0.39 | 1.2 | 0.10 | 1.41 | 0.46 | 20 | 215 |
| 30 | 12.44 | 12.44 | 33.555 | 25.384 | 259.0 | 0.087 | 4.81 | 79.5 | 9.2 | 0.87 | 8.1 | 0.25 | 0.83 | 0.47 | 30 | 214 |
| 40 | 11.66 | 11.65 | 33.576 | 25.548 | 243.6 | 0.112 | 4.25 | 69.1 | 12.4 | 1.15 | 12.5 | 0.09 | 0.60 | 0.34 | 40 | 213 |
| 50 | 11.28 | 11.27 | 33.597 | 25.634 | 235.6 | 0.136 | 4.02 | 64.8 | 14.4 | 1.27 | 14.6 | 0.07 | 0.44 | 0.24 | 50 | 212 |
| 60 | 10.98 | 10.97 | 33.667 | 25.743 | 225.5 | 0.159 | 3.64 | 58.3 | 17.1 | 1.45 | 17.1 | 0.03 | 0.22 | 0.20 | 60 | 211 |
| 70 | 10.74 | 10.73 | 33.706 | 25.816 | 218.8 | 0.181 | 3.48 | 55.5 | 18.7 | 1.53 | 18.4 | 0.02 | 0.12 | 0.14 | 70 | 210 |
| 75 ISL | 10.57 | 10.56 | 33.732 | 25.866 | 214.1 | 0.192 | 3.40 | 54.0 | 19.8 | 1.58 | 19.2 | 0.02 | 0.09 | 0.11 | 75 | |
| 84 | 10.26 | 10.25 | 33.786 | 25.962 | 205.2 | 0.211 | 3.24 | 51.2 | 21.8 | 1.67 | 20.8 | 0.02 | 0.05 | 0.08 | 84 | 209 |
| 99 | 9.95 | 9.94 | 33.886 | 26.093 | 193.0 | 0.241 | 2.91 | 45.7 | 25.1 | 1.83 | 23.1 | 0.02 | 0.01 | 0.06 | 100 | 208 |
| 100 ISL | 9.93 | 9.92 | 33.892 | 26.101 | 192.3 | 0.243 | 2.90 | 45.5 | 25.3 | 1.84 | 23.2 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 37

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 33 11.3 N | 118 23.2 W | 12/04/01 | 0015 | UTC | 1179 m | 280 | 06 kn | 290 03 07 | 0 | 1019.3 mb | 14.5 | C 11.3 C | 14m | 0/8 | | |
| 0 ISL | 14.82 | 14.82 | 33.524 | 24.874 | 306.8 | 0.000 | 6.01 | 104.3 | 3.6 | 0.31 | 0.1 | 0.00 | 0.70 | 0.21 | 0 | |
| 1 | 14.82 | 14.82 | 33.524 | 24.874 | 306.8 | 0.003 | 6.01 | 104.3 | 3.6 | 0.31 | 0.1 | 0.00 | 0.70 | 0.21 | 1 | 220 |
| 10 | 14.39 | 14.39 | 33.522 | 24.964 | 298.5 | 0.030 | 6.05 | 104.1 | 3.7 | 0.30 | 0.1 | 0.01 | 0.73 | 0.26 | 10 | 219 |
| 20 | 13.97 | 13.97 | 33.526 | 25.056 | 290.0 | 0.060 | 6.00 | 102.4 | 4.2 | 0.37 | 0.7 | 0.03 | 1.39 | 0.54 | 20 | 218 |
| 30 | 13.27 | 13.27 | 33.518 | 25.193 | 277.3 | 0.088 | 5.73 | 96.3 | 5.8 | 0.53 | 3.0 | 0.08 | 1.39 | 0.55 | 30 | 217 |
| 40 | 11.76 | 11.75 | 33.572 | 25.526 | 245.7 | 0.114 | 4.43 | 72.2 | 12.0 | 1.12 | 11.6 | 0.14 | 0.70 | 0.36 | 40 | 216 |
| 50 | 11.41 | 11.40 | 33.583 | 25.600 | 238.9 | 0.138 | 4.22 | 68.2 | 13.3 | 1.20 | 13.5 | 0.09 | 0.49 | 0.26 | 50 | 215 |
| 60 | 10.98 | 10.97 | 33.647 | 25.727 | 227.0 | 0.162 | 3.78 | 60.6 | 16.4 | 1.43 | 16.5 | 0.03 | 0.23 | 0.25 | 60 | 214 |
| 70 | 10.91 | 10.90 | 33.707 | 25.787 | 221.6 | 0.184 | 3.43 | 54.9 | 18.5 | 1.54 | 18.2 | 0.02 | 0.19 | 0.19 | 70 | 213 |
| 75 ISL | 10.82 | 10.81 | 33.740 | 25.828 | 217.8 | 0.195 | 3.26 | 52.1 | 19.8 | 1.61 | 19.2 | 0.02 | 0.15 | 0.16 | 75 | |
| 85 | 10.63 | 10.62 | 33.804 | 25.912 | 210.0 | 0.217 | 2.98 | 47.4 | 22.3 | 1.73 | 21.0 | 0.01 | 0.06 | 0.12 | 85 | 212 |
| 100 | 10.42 | 10.41 | 33.875 | 26.004 | 201.6 | 0.247 | 2.72 | 43.1 | 24.6 | 1.85 | 22.6 | 0.01 | 0.03 | 0.10 | 101 | 211 |
| 119 | 10.04 | 10.03 | 33.961 | 26.137 | 189.4 | 0.285 | 2.53 | 39.8 | 27.7 | 1.97 | 24.3 | 0.01 | 0.01 | 0.09 | 120 | 210 |
| 125 ISL | 9.89 | 9.88 | 33.997 | 26.190 | 184.4 | 0.296 | 2.44 | 38.3 | 29.1 | 2.02 | 25.0 | 0.01 | 0.01 | 0.08 | 126 | |
| 140 | 9.53 | 9.51 | 34.081 | 26.316 | 172.7 | 0.323 | 2.20 | 34.2 | 32.4 | 2.14 | 26.8 | 0.01 | 0.00 | 0.05 | 141 | 209 |
| 150 ISL | 9.36 | 9.34 | 34.111 | 26.367 | 168.0 | 0.340 | 2.11 | 32.7 | 33.9 | 2.19 | 27.5 | 0.01 | 0.00 | 0.05 | 151 | |
| 170 | 9.12 | 9.10 | 34.157 | 26.442 | 161.2 | 0.373 | 1.92 | 29.6 | 36.4 | 2.28 | 28.5 | 0.01 | 0.00 | 0.04 | 171 | 208 |
| 199 | 8.99 | 8.97 | 34.251 | 26.537 | 152.8 | 0.418 | 1.31 | 20.2 | 41.3 | 2.51 | 30.3 | 0.01 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 8.96 | 8.94 | 34.249 | 26.540 | 152.5 | 0.420 | 1.31 | 20.2 | 41.4 | 2.51 | 30.4 | 0.01 | | | 201 | |
| 229 | 8.17 | 8.15 | 34.175 | 26.604 | 146.6 | 0.463 | 1.59 | 24.0 | 44.8 | 2.49 | 31.6 | 0.01 | | | 230 | 206 |
| 250 ISL | 7.93 | 7.90 | 34.169 | 26.635 | 143.9 | 0.493 | 1.50 | 22.5 | 46.9 | 2.53 | 32.2 | 0.01 | | | 252 | |
| 270 | 7.82 | 7.79 | 34.179 | 26.660 | 141.9 | 0.522 | 1.41 | 21.1 | 48.9 | 2.59 | 32.8 | 0.01 | | | 272 | 205 |
| 300 ISL | 7.57 | 7.54 | 34.192 | 26.707 | 137.9 | 0.564 | 1.22 | 18.2 | 52.6 | 2.68 | 33.9 | 0.00 | | | 302 | |
| 323 | 7.38 | 7.35 | 34.205 | 26.744 | 134.6 | 0.595 | 1.06 | 15.7 | 55.7 | 2.76 | 34.8 | 0.00 | | | 325 | 204 |
| 373 | 6.91 | 6.88 | 34.240 | 26.837 | 126.2 | 0.661 | 0.72 | 10.6 | 63.5 | 2.93 | 36.9 | 0.00 | | | 375 | 203 |
| 400 ISL | 6.68 | 6.64 | 34.256 | 26.881 | 122.3 | 0.694 | 0.59 | 8.6 | 67.3 | 3.01 | 37.9 | 0.00 | | | 403 | |
| 437 | 6.41 | 6.37 | 34.276 | 26.933 | 117.7 | 0.738 | 0.46 | 6.7 | 72.1 | 3.10 | 39.0 | 0.00 | | | 440 | 202 |
| 500 ISL | 6.08 | 6.04 | 34.308 | 27.001 | 111.8 | 0.811 | 0.33 | 4.7 | 78.7 | 3.21 | 40.1 | 0.00 | | | 503 | |
| 512 | 6.02 | 5.97 | 34.314 | 27.014 | 110.7 | 0.824 | 0.30 | 4.3 | 79.9 | 3.23 | 40.3 | 0.00 | | | 516 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|----------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 55.2 N | 118 56.2 W | 11/04/01 | 1851 | UTC | 1695 m | 310 | 11 kn | 300 04 05 | 1 | 1021.2 mb | 13.2 | C 11.1 C | 12m | 6/8 | SC | |
| 0 ISL | 13.57 | 13.57 | 33.541 | 25.149 | 280.6 | 0.000 | 6.10 | 103.2 | 3.5 | 0.38 | 1.1 | 0.07 | 1.00 | 0.26 | 0 | |
| 2 B | 13.57 | 13.57 | 33.541 | 25.149 | 280.7 | 0.006 | 6.10 | 103.2 | 3.5 | 0.38 | 1.1 | 0.07 | 1.00 | 0.26 | 2 | 222 |
| 7 B | 13.54 | 13.54 | 33.541 | 25.155 | 280.2 | 0.020 | 6.11 | 103.3 | 3.5 | 0.38 | 1.1 | 0.07 | 1.01 | 0.26 | 7 | 221 |
| 10 ISL | 13.51 | 13.51 | 33.540 | 25.161 | 279.8 | 0.028 | 6.11 | 103.3 | 3.5 | 0.38 | 1.1 | 0.07 | 1.02 | 0.27 | 10 | |
| 15 B | 13.46 | 13.46 | 33.540 | 25.171 | 278.9 | 0.042 | 6.11 | 103.2 | 3.6 | 0.39 | 1.1 | 0.07 | 1.04 | 0.30 | 15 | 220 |
| 20 ISL | 13.43 | 13.43 | 33.543 | 25.179 | 278.3 | 0.056 | 6.10 | 102.9 | 3.5 | 0.39 | 1.2 | 0.07 | 1.11 | 0.34 | 20 | |
| 24 B | 13.41 | 13.41 | 33.545 | 25.185 | 277.8 | 0.067 | 6.10 | 102.9 | 3.5 | 0.39 | 1.2 | 0.07 | 1.17 | 0.37 | 24 | 219 |
| 30 ISL | 12.88 | 12.88 | 33.555 | 25.299 | 267.2 | 0.083 | 6.18 | 103.1 | 1.7 | 0.46 | 1.9 | 0.10 | 2.07 | 0.91 | 30 | |
| 31 B | 12.79 | 12.79 | 33.557 | 25.318 | 265.3 | 0.086 | 6.18 | 102.9 | 1.5 | 0.47 | 2.1 | 0.11 | 2.21 | 1.01 | 31 | 218 |
| 38 | 12.58 | 12.57 | 33.554 | 25.357 | 261.8 | 0.105 | 5.95 | 98.6 | 2.9 | 0.56 | 3.3 | 0.11 | 2.14 | 1.49 | 38 | 217 |
| 44 B | 11.96 | 11.95 | 33.552 | 25.474 | 250.8 | 0.120 | 5.15 | 84.3 | 8.8 | 0.90 | 8.7 | 0.11 | 0.97 | 0.96 | 44 | 216 |
| 50 ISL | 11.19 | 11.18 | 33.567 | 25.627 | 236.3 | 0.135 | 4.53 | 72.9 | 12.9 | 1.16 | 12.9 | 0.09 | 0.34 | 0.57 | 50 | |
| 52 | 10.96 | 10.95 | 33.575 | 25.675 | 231.8 | 0.139 | 4.37 | 70.0 | 13.9 | 1.22 | 14.0 | 0.08 | 0.23 | 0.48 | 52 | 215 |
| 60 | 10.61 | 10.60 | 33.612 | 25.765 | 223.4 | 0.157 | 4.11 | 65.3 | 16.0 | 1.35 | 16.0 | 0.05 | 0.12 | 0.32 | 60 | 214 |
| 70 | 10.25 | 10.24 | 33.674 | 25.876 | 213.0 | 0.179 | 3.80 | 60.0 | 18.7 | 1.48 | 18.2 | 0.03 | 0.12 | 0.33 | 70 | 213 |
| 75 ISL | 10.12 | 10.11 | 33.704 | 25.922 | 208.8 | 0.190 | 3.68 | 57.9 | 20.0 | 1.54 | 19.1 | 0.03 | 0.10 | 0.29 | 75 | |
| 85 | 9.95 | 9.94 | 33.756 | 25.991 | 202.4 | 0.210 | 3.49 | 54.7 | 22.1 | 1.64 | 20.6 | 0.03 | 0.07 | A 0.19 A | 85 | 212 |
| 99 | 9.89 | 9.88 | 33.796 | 26.033 | 198.7 | 0.238 | 3.28 | 51.4 | 23.4 | 1.72 | 21.5 | 0.02 | 0.07 | 0.20 | 100 | 211 |
| 100 ISL | 9.88 | 9.87 | 33.800 | 26.037 | 198.3 | 0.240 | 3.26 | 51.1 | 23.6 | 1.73 | 21.6 | 0.02 | 0.07 | 0.20 | 101 | |
| 120 | 9.61 | 9.60 | 33.895 | 26.157 | 187.4 | 0.279 | 2.85 | 44.4 | 27.7 | 1.90 | 24.1 | 0.01 | 0.04 | 0.16 | 121 | 210 |
| 125 ISL | 9.55 | 9.54 | 33.915 | 26.182 | 185.0 | 0.288 | 2.77 | 43.1 | 28.5 | 1.93 | 24.6 | 0.01 | 0.03 | 0.15 | 126 | |
| 140 | 9.38 | 9.36 | 33.968 | 26.252 | 178.7 | 0.316 | 2.58 | 40.0 | 30.7 | 2.02 | 25.8 | 0.02 | 0.02 | 0.12 | 141 | 209 |
| 150 ISL | 9.29 | 9.27 | 34.002 | 26.293 | 175.0 | 0.333 | 2.49 | 38.5 | 31.7 | 2.06 | 26.4 | 0.02 | 0.01 | 0.12 | 151 | |
| 170 | 9.11 | 9.09 | 34.060 | 26.368 | 168.3 | 0.368 | 2.34 | 36.1 | 33.7 | 2.13 | 27.4 | 0.02 | 0.01 | 0.12 | 171 | 208 |
| 200 | 8.67 | 8.65 | 34.114 | 26.480 | 158.1 | 0.416 | 2.01 | 30.7 | 38.3 | 2.28 | 29.4 | 0.03 | 0.01 | 0.08 | 201 | 207 |
| 230 | 8.46 | 8.44 | 34.153 | 26.543 | 152.5 | 0.463 | 1.73 | 26.3 | 41.5 | 2.41 | 30.7 | 0.01 | | | 231 | 206 |
| 250 ISL | 8.21 | 8.18 | 34.166 | 26.592 | 148.2 | 0.493 | 1.55 | 23.4 | 44.6 | 2.49 | 31.8 | 0.01 | | | 252 | |
| 271 | 7.93 | 7.90 | 34.178 | 26.643 | 143.6 | 0.524 | 1.37 | 20.6 | 48.2 | 2.58 | 32.9 | 0.01 | | | 273 | 205 |
| 300 ISL | 7.61 | 7.58 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 12.27 | 12.27 | 33.583 | 25.438 | 253.1 | 0.000 | 6.35 | 104.6 | 2.0 | 0.55 | 3.2 | 0.17 | 6.11 | 2.55 | 0 | |
| 2 | 12.27 | 12.27 | 33.583 | 25.438 | 253.2 | 0.005 | 6.35 | 104.6 | 2.0 | 0.55 | 3.2 | 0.17 | 6.11 | 2.55 | 2 | 220 |
| 10 ISL | 12.28 | 12.28 | 33.583 | 25.436 | 253.5 | 0.025 | 6.35 | 104.6 | 2.0 | 0.55 | 3.2 | 0.16 | 6.29 | 2.53 | 10 | |
| 15 | 12.28 | 12.28 | 33.583 | 25.436 | 253.6 | 0.038 | 6.34 | 104.5 | 2.0 | 0.55 | 3.2 | 0.16 | 6.42 A | 2.50 A | 15 | 219 |
| 20 ISL | 12.28 | 12.28 | 33.583 | 25.437 | 253.8 | 0.051 | 6.33 | 104.3 | 2.0 | 0.56 | 3.2 | 0.16 | 6.39 | 2.44 | 20 | |
| 30 | 12.27 | 12.27 | 33.583 | 25.439 | 253.8 | 0.076 | 6.32 | 104.1 | 2.1 | 0.58 | 3.3 | 0.16 | 6.32 | 2.32 | 30 | 218 |
| 45 | 12.03 | 12.02 | 33.576 | 25.479 | 250.3 | 0.114 | 5.82 | 95.4 | 6.2 | 0.75 | 6.1 | 0.18 | 4.13 | 1.55 | 45 | 217 |
| 50 ISL | 11.64 | 11.63 | 33.572 | 25.549 | 243.8 | 0.126 | 5.39 | 87.6 | 9.3 | 0.93 | 8.8 | 0.20 | 2.57 | 1.21 | 50 | |
| 55 | 11.18 | 11.17 | 33.572 | 25.633 | 235.9 | 0.138 | 4.95 | 79.6 | 12.5 | 1.11 | 11.6 | 0.21 | 1.14 | 0.90 | 55 | 216 |
| 65 | 10.39 | 10.38 | 33.584 | 25.782 | 221.9 | 0.161 | 4.47 | 70.7 | 16.1 | 1.32 | 15.4 | 0.18 | 0.44 | 0.55 | 65 | 215 |
| 75 | 9.90 | 9.89 | 33.636 | 25.906 | 210.3 | 0.183 | 4.03 | 63.1 | 19.1 | 1.49 | 18.3 | 0.11 | 0.22 | 0.37 | 75 | 214 |
| 85 | 9.78 | 9.77 | 33.690 | 25.968 | 204.6 | 0.203 | 3.78 | 59.0 | 20.8 | 1.57 | 19.7 | 0.08 | 0.12 | 0.36 | 85 | 213 |
| 95 | 9.60 | 9.59 | 33.826 | 26.104 | 191.8 | 0.223 | 3.28 | 51.1 | 24.9 | 1.76 | 22.7 | 0.05 | 0.08 | 0.23 | 95 | 212 |
| 100 ISL | 9.54 | 9.53 | 33.851 | 26.134 | 189.1 | 0.233 | 3.19 | 49.6 | 25.7 | 1.79 | 23.3 | 0.05 | 0.07 | 0.23 | 101 | |
| 110 | 9.41 | 9.40 | 33.874 | 26.173 | 185.6 | 0.252 | 3.11 | 48.2 | 26.8 | 1.83 | 24.0 | 0.06 | 0.06 | 0.24 | 111 | 211 |
| 125 | 9.07 | 9.06 | 33.953 | 26.290 | 174.7 | 0.279 | 2.85 | 43.9 | 30.4 | 1.96 | 26.0 | 0.05 | 0.04 | 0.23 | 126 | 210 |
| 145 | 8.84 | 8.82 | 33.991 | 26.356 | 168.8 | 0.313 | 2.71 | 41.5 | 32.7 | 2.03 | 27.0 | 0.04 | 0.04 | 0.20 | 146 | 209 |
| 150 ISL | 8.82 | 8.80 | 34.006 | 26.371 | 167.4 | 0.321 | 2.63 | 40.3 | 33.3 | 2.06 | 27.3 | 0.04 | 0.04 | 0.19 | 151 | |
| 169 | 8.76 | 8.74 | 34.060 | 26.423 | 162.9 | 0.353 | 2.33 | 35.6 | 35.6 | 2.17 | 28.4 | 0.04 | 0.03 | 0.17 | 170 | 208 |
| 198 | 8.41 | 8.39 | 34.086 | 26.498 | 156.2 | 0.399 | 2.16 | 32.8 | 39.3 | 2.27 | 29.7 | 0.03 | 0.01 | 0.13 | 199 | 207 |
| 200 ISL | 8.37 | 8.35 | 34.087 | 26.505 | 155.6 | 0.402 | 2.15 | 32.6 | 39.7 | 2.28 | 29.8 | 0.03 | | | 201 | |
| 226 | 7.88 | 7.86 | 34.101 | 26.589 | 147.8 | 0.442 | 1.94 | 29.1 | 44.9 | 2.40 | 31.6 | 0.03 | | | 227 | 206 |
| 250 ISL | 7.67 | 7.65 | 34.119 | 26.634 | 143.9 | 0.477 | 1.76 | 26.3 | 47.7 | 2.48 | 32.5 | 0.03 | | | 252 | |
| 269 | 7.56 | 7.53 | 34.135 | 26.663 | 141.4 | 0.504 | 1.61 | 24.0 | 49.6 | 2.54 | 33.0 | 0.03 | | | 271 | 205 |
| 300 ISL | 7.29 | 7.26 | 34.160 | 26.721 | 136.3 | 0.547 | 1.33 | 19.7 | 54.1 | 2.66 | 34.4 | 0.02 | | | 302 | |
| 318 | 7.15 | 7.12 | 34.175 | 26.753 | 133.5 | 0.571 | 1.17 | 17.3 | 56.7 | 2.73 | 35.2 | 0.01 | | | 320 | 204 |
| 377 | 6.86 | 6.82 | 34.222 | 26.830 | 126.9 | 0.648 | 0.80 | 11.7 | 63.4 | 2.89 | 37.0 | 0.01 | | | 379 | 203 |
| 400 ISL | 6.79 | 6.75 | 34.235 | 26.850 | 125.3 | 0.677 | 0.72 | 10.5 | 65.0 | 2.93 | 37.4 | 0.01 | | | 403 | |
| 437 | 6.66 | 6.62 | 34.254 | 26.883 | 122.7 | 0.723 | 0.62 | 9.0 | 67.7 | 2.98 | 38.1 | 0.01 | | | 440 | 202 |
| 500 ISL | 6.22 | 6.18 | 34.293 | 26.972 | 114.8 | 0.798 | 0.42 | 6.1 | 75.9 | 3.11 | 39.8 | 0.01 | | | 503 | |
| 514 | 6.12 | 6.07 | 34.302 | 26.992 | 113.0 | 0.813 | 0.37 | 5.3 | 77.7 | 3.14 | 40.2 | 0.01 | | | 518 | 201 |

A) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 12.94 | 12.94 | 33.441 | 25.198 | 276.0 | 0.000 | 5.96 | 99.5 | 4.7 | 0.49 | 2.5 | 0.12 | 0.61 | 0.21 | 0 | |
| 2 | 12.94 | 12.94 | 33.441 | 25.198 | 276.0 | 0.006 | 5.96 | 99.5 | 4.7 | 0.49 | 2.5 | 0.12 | 0.61 | 0.21 | 2 | 224 |
| 10 ISL | 12.94 | 12.94 | 33.441 | 25.198 | 276.2 | 0.028 | 5.96 | 99.5 | 4.6 | 0.49 | 2.5 | 0.12 | 0.61 | 0.23 | 10 | |
| 15 | 12.94 | 12.94 | 33.441 | 25.198 | 276.3 | 0.041 | 5.96 | 99.5 | 4.6 | 0.49 | 2.5 | 0.12 | 0.61 | 0.24 | 15 | 219 |
| 20 ISL | 12.94 | 12.94 | 33.441 | 25.198 | 276.4 | 0.055 | 5.96 | 99.5 | 4.6 | 0.49 | 2.5 | 0.12 | 0.62 | 0.24 | 20 | |
| 30 ISL | 12.94 | 12.94 | 33.441 | 25.198 | 276.7 | 0.083 | 5.97 | 99.6 | 4.7 | 0.49 | 2.5 | 0.12 | 0.63 | 0.23 | 30 | |
| 31 | 12.94 | 12.94 | 33.441 | 25.199 | 276.7 | 0.086 | 5.97 | 99.6 | 4.7 | 0.49 | 2.5 | 0.12 | 0.63 | 0.23 | 31 | 218 |
| 45 | 12.81 | 12.80 | 33.438 | 25.222 | 274.8 | 0.124 | 5.73 | 95.4 | 5.1 | 0.54 | 3.1 | 0.16 | 0.59 | 0.21 | 45 | 217 |
| 50 ISL | 12.77 | 12.76 | 33.443 | 25.234 | 273.8 | 0.138 | 5.74 | 95.5 | 5.0 | 0.55 | 3.2 | 0.16 | 0.72 | 0.29 | 50 | |
| 56 | 12.65 | 12.64 | 33.445 | 25.259 | 271.6 | 0.154 | 5.76 | 95.5 | 4.9 | 0.57 | 3.6 | 0.16 | 0.80 | 0.36 | 56 | 216 |
| 64 | 12.27 | 12.26 | 33.432 | 25.322 | 265.7 | 0.176 | 5.47 | 90.0 | 6.2 | 0.67 | 5.1 | 0.15 | 0.44 | 0.27 | 64 | 215 |
| 74 | 11.32 | 11.31 | 33.435 | 25.502 | 248.8 | 0.202 | 5.11 | 82.4 | 9.7 | 0.92 | 9.3 | 0.13 | 0.17 | 0.18 | 74 | 214 |
| 75 ISL | 11.21 | 11.20 | 33.443 | 25.528 | 246.4 | 0.204 | 5.05 | 81.2 | 10.2 | 0.95 | 9.8 | 0.12 | 0.16 | 0.17 | 75 | |
| 84 | 10.39 | 10.38 | 33.516 | 25.729 | 227.3 | 0.225 | 4.56 | 72.1 | 13.9 | 1.20 | 14.0 | 0.03 | 0.09 | 0.14 | 84 | 213 |
| 95 | 10.30 | 10.29 | 33.529 | 25.755 | 225.1 | 0.250 | 4.49 | 70.8 | 14.6 | 1.24 | 14.7 | 0.03 | 0.07 | 0.12 | 95 | 212 |
| 100 ISL | 10.17 | 10.16 | 33.568 | 25.807 | 220.2 | 0.261 | 4.30 | 67.7 | 16.1 | 1.32 | 16.0 | 0.03 | 0.06 | 0.11 | 100 | |
| 109 | 9.91 | 9.90 | 33.648 | 25.914 | 210.2 | 0.281 | 3.92 | 61.4 | 19.2 | 1.49 | 18.6 | 0.02 | 0.04 | 0.09 | 110 | 211 |
| 124 | 9.66 | 9.65 | 33.710 | 26.004 | 201.9 | 0.312 | 3.68 | 57.3 | 21.7 | 1.61 | 20.4 | 0.02 | 0.03 | 0.08 | 125 | 210 |
| 125 ISL | 9.65 | 9.64 | 33.719 | 26.013 | 201.1 | 0.314 | 3.64 | 56.7 | 22.0 | 1.62 | 20.6 | 0.02 | 0.03 | 0.08 | 126 | |
| 143 | 9.47 | 9.45 | 33.885 | 26.172 | 186.3 | 0.349 | 2.95 | 45.8 | 27.3 | 1.87 | 24.3 | 0.01 | 0.01 | 0.09 | 144 | 209 |
| 150 ISL | 9.34 | 9.32 | 33.918 | 26.219 | 182.0 | 0.361 | 2.82 | 43.7 | 28.8 | 1.93 | 25.2 | 0.01 | 0.01 | 0.09 | 151 | |
| 169 | 8.93 | 8.91 | 33.970 | 26.326 | 172.1 | 0.395 | 2.67 | 41.0 | 32.2 | 2.04 | 26.9 | 0.01 | 0.01 | 0.07 | 170 | 208 |
| 199 | 8.30 | 8.28 | 34.030 | 26.470 | 158.8 | 0.445 | 2.59 | 39.2 | 37.1 | 2.13 | 28.6 | 0.01 | 0.00 | 0.05 | 200 | 207 |
| 200 ISL | 8.29 | 8.27 | 34.031 | 26.473 | 158.5 | 0.446 | 2.58 | 39.0 | 37.2 | 2.13 | 28.7 | 0.01 | | | 201 | |
| 228 | 8.06 | 8.04 | 34.059 | 26.530 | 153.6 | 0.490 | 2.33 | 35.1 | 40.4 | 2.24 | 30.0 | 0.01 | | | 229 | 206 |
| 250 ISL | 7.88 | 7.85 | 34.074 | 26.568 | 150.2 | 0.523 | 2.18 | 32.7 | 42.7 | 2.31 | 30.8 | 0.01 | | | 251 | |
| 269 | 7.71 | 7.68 | 34.087 | 26.603 | 147.1 | 0.552 | 2.03 | 30.3 | 45.0 | 2.37 | 31.6 | 0.01 | | | 271 | 205 |
| 300 ISL | 7.35 | 7.32 | 34.118 | 26.680 | 140.2 | 0.596 | 1.65 | 24.4 | 51.1 | 2.54 | 33.5 | 0.00 | | | 302 | |
| 31 | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|--------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 5.2 N | 120 38.3 W | 10/04/01 | 2333 | UTC | 3817 m | 300 | 10 kn | 310 05 09 | 1 | 1019.0 mb | 13.9 C | 12.5 C | 15m | 7/8 | ST |
| 0 | ISL | 13.96 | 13.96 | 33.447 | 24.996 | 295.1 | 0.000 | 6.03 | 102.8 | 3.4 | 0.34 | 0.3 | 0.02 | 0.51 | 0.10 | 0 |
| 2 | | 13.96 | 13.96 | 33.447 | 24.996 | 295.2 | 0.006 | 6.03 | 102.8 | 3.4 | 0.34 | 0.3 | 0.02 | 0.51 | 0.10 | 2 220 |
| 10 | | 13.95 | 13.95 | 33.447 | 24.998 | 295.2 | 0.030 | 6.03 | 102.8 | 3.3 | 0.34 | 0.3 | 0.02 | 0.46 | 0.09 | 10 219 |
| 20 | | 13.91 | 13.91 | 33.447 | 25.007 | 294.7 | 0.059 | 6.04 | 102.9 | 3.3 | 0.34 | 0.3 | 0.02 | 0.52 | 0.09 | 20 218 |
| 30 | | 13.86 | 13.86 | 33.448 | 25.018 | 293.9 | 0.088 | 6.01 | 102.2 | 3.4 | 0.34 | 0.3 | 0.02 | 0.56 | 0.12 | 30 217 |
| 40 | | 13.14 | 13.13 | 33.434 | 25.154 | 281.2 | 0.117 | 5.84 | 97.9 | 4.4 | 0.47 | 2.2 | 0.09 | 0.74 | 0.19 | 40 216 |
| 50 | | 12.04 | 12.03 | 33.412 | 25.350 | 262.7 | 0.144 | 5.32 | 87.1 | 7.0 | 0.75 | 6.3 | 0.17 | 0.73 | 0.28 | 50 215 |
| 60 | | 11.79 | 11.78 | 33.480 | 25.450 | 253.5 | 0.170 | 5.11 | 83.3 | 8.7 | 0.86 | 8.4 | 0.13 | 0.47 | 0.22 | 60 214 |
| 70 | | 11.11 | 11.10 | 33.493 | 25.584 | 240.8 | 0.195 | 4.76 | 76.4 | 11.0 | 1.04 | 11.3 | 0.04 | 0.25 | 0.21 | 70 213 |
| 75 | ISL | 10.98 | 10.97 | 33.524 | 25.632 | 236.4 | 0.207 | 4.58 | 73.3 | 12.2 | 1.12 | 12.5 | 0.03 | 0.17 | 0.17 | 75 |
| 85 | | 10.77 | 10.76 | 33.589 | 25.720 | 228.3 | 0.230 | 4.29 | 68.4 | 14.6 | 1.25 | 14.5 | 0.02 | 0.07 | 0.09 | 85 212 |
| 100 | | 9.88 | 9.87 | 33.620 | 25.897 | 211.6 | 0.263 | 4.15 | 64.9 | 17.6 | 1.40 | 17.4 | 0.02 | 0.06 | 0.09 | 100 211 |
| 120 | | 9.57 | 9.56 | 33.702 | 26.013 | 201.0 | 0.304 | 3.91 | 60.8 | 20.3 | 1.52 | 19.5 | 0.01 | 0.02 | 0.05 | 121 210 |
| 125 | ISL | 9.58 | 9.57 | 33.729 | 26.032 | 199.3 | 0.314 | 3.77 | 58.6 | 21.2 | 1.57 | 20.2 | 0.01 | 0.02 | 0.07 | 126 |
| 139 | | 9.63 | 9.61 | 33.807 | 26.085 | 194.6 | 0.342 | 3.36 | 52.3 | 23.8 | 1.72 | 22.3 | 0.02 | 0.02 | 0.12 | 140 209 |
| 150 | ISL | 9.52 | 9.50 | 33.860 | 26.145 | 189.1 | 0.363 | 3.17 | 49.3 | 25.7 | 1.80 | 23.5 | 0.01 | 0.02 | 0.10 | 151 |
| 170 | | 9.20 | 9.18 | 33.940 | 26.260 | 178.5 | 0.400 | 2.93 | 45.2 | 29.0 | 1.91 | 25.2 | 0.00 | 0.01 | 0.03 | 171 208 |
| 200 | | 8.67 | 8.65 | 34.021 | 26.407 | 165.0 | 0.451 | 2.65 | 40.4 | 34.0 | 2.06 | 27.4 | 0.00 | 0.00 | 0.02 | 201 207 |
| 229 | | 8.15 | 8.13 | 34.055 | 26.513 | 155.2 | 0.498 | 2.42 | 36.5 | 39.2 | 2.20 | 29.4 | 0.00 | | 230 | 206 |
| 250 | ISL | 7.83 | 7.81 | 34.062 | 26.566 | 150.4 | 0.530 | 2.29 | 34.3 | 42.4 | 2.28 | 30.6 | 0.00 | | 251 | |
| 269 | | 7.58 | 7.55 | 34.065 | 26.605 | 146.9 | 0.558 | 2.16 | 32.2 | 45.2 | 2.35 | 31.5 | 0.00 | | 271 | 205 |
| 300 | ISL | 7.22 | 7.19 | 34.080 | 26.668 | 141.3 | 0.603 | 1.87 | 27.6 | 50.1 | 2.48 | 33.1 | 0.00 | | 302 | |
| 321 | | 7.01 | 6.98 | 34.096 | 26.710 | 137.5 | 0.632 | 1.65 | 24.2 | 53.6 | 2.58 | 34.2 | 0.00 | | 323 | 204 |
| 379 | | 6.62 | 6.59 | 34.169 | 26.820 | 127.6 | 0.709 | 0.98 | 14.3 | 63.6 | 2.85 | 37.2 | 0.00 | | 381 | 203 |
| 400 | ISL | 6.50 | 6.46 | 34.196 | 26.858 | 124.3 | 0.735 | 0.80 | 11.6 | 66.8 | 2.93 | 38.0 | 0.00 | | 403 | |
| 441 | | 6.30 | 6.26 | 34.244 | 26.922 | 118.7 | 0.785 | 0.52 | 7.5 | 72.4 | 3.05 | 39.1 | 0.00 | | 444 | 202 |
| 500 | ISL | 6.04 | 6.00 | 34.294 | 26.995 | 112.3 | 0.853 | 0.33 | 4.7 | 78.0 | 3.14 | 40.2 | 0.00 | | 503 | |
| 511 | | 5.99 | 5.95 | 34.303 | 27.009 | 111.2 | 0.866 | 0.30 | 4.3 | 79.1 | 3.16 | 40.4 | 0.00 | | 514 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-----------|-----------|-----------|--------|--------|--------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 31 | 45.1 N | 121 19.6 W | 10/04/01 | 1744 | UTC | 3752 m | 330 | 16 kn | 300 08 08 | 5 | 1020.9 mb | 13.2 C | 12.1 C | 17m | 7/8 | NS |
| 0 | ISL | 13.49 | 13.49 | 33.316 | 24.991 | 295.6 | 0.000 | 6.08 | 102.6 | 3.7 | 0.36 | 0.4 | 0.03 | 0.39 | 0.08 | 0 |
| 2 | A | 13.49 | 13.49 | 33.316 | 24.991 | 295.7 | 0.006 | 6.08 | 102.6 | 3.7 | 0.36 | 0.4 | 0.03 | 0.39 | 0.08 | 2 222 |
| 10 | ISL | 13.48 | 13.48 | 33.314 | 24.992 | 295.8 | 0.030 | 6.08 | 102.5 | 3.7 | 0.36 | 0.4 | 0.03 | 0.42 | 0.11 | 10 |
| 11 | A | 13.48 | 13.48 | 33.314 | 24.992 | 295.8 | 0.033 | 6.08 | 102.5 | 3.7 | 0.36 | 0.4 | 0.03 | 0.42 | 0.11 | 11 221 |
| 20 | ISL | 13.49 | 13.49 | 33.320 | 24.995 | 295.8 | 0.059 | 6.08 | 102.6 | 3.6 | 0.36 | 0.4 | 0.03 | 0.41 | 0.10 | 20 |
| 21 | A | 13.49 | 13.49 | 33.321 | 24.995 | 295.8 | 0.062 | 6.08 | 102.6 | 3.6 | 0.36 | 0.4 | 0.03 | 0.41 | 0.10 | 21 220 |
| 30 | ISL | 13.51 | 13.51 | 33.330 | 24.999 | 295.7 | 0.089 | 6.07 | 102.4 | 3.5 | 0.36 | 0.3 | 0.03 | 0.43 | 0.11 | 30 |
| 35 | A | 13.52 | 13.52 | 33.338 | 25.003 | 295.4 | 0.104 | 6.06 | 102.3 | 3.4 | 0.36 | 0.3 | 0.03 | 0.45 | 0.11 | 35 219 |
| 44 | A | 13.54 | 13.53 | 33.361 | 25.017 | 294.4 | 0.130 | 6.06 | 102.4 | 3.4 | 0.36 | 0.3 | 0.03 | 0.47 | 0.11 | 44 218 |
| 50 | ISL | 13.52 | 13.52 | 33.357 | 25.016 | 294.6 | 0.148 | 6.06 | 102.3 | 3.4 | 0.36 | 0.4 | 0.03 | 0.45 | 0.12 | 50 |
| 53 | | 13.52 | 13.51 | 33.355 | 25.017 | 294.7 | 0.157 | 6.06 | 102.3 | 3.4 | 0.36 | 0.4 | 0.03 | 0.44 | 0.12 | 53 217 |
| 62 | A | 12.83 | 12.82 | 33.298 | 25.110 | 285.9 | 0.183 | 5.91 | 98.3 | 4.6 | 0.49 | 2.2 | 0.12 | 0.49 | 0.18 | 62 216 |
| 68 | | 11.49 | 11.48 | 33.242 | 25.320 | 265.9 | 0.199 | 5.55 | 89.7 | 7.1 | 0.74 | 6.2 | 0.09 | 0.29 | 0.15 | 68 215 |
| 75 | | 11.34 | 11.33 | 33.272 | 25.371 | 261.2 | 0.218 | 5.48 | 88.3 | 7.4 | 0.79 | 7.0 | 0.07 | 0.26 | 0.15 | 75 214 |
| 85 | | 10.91 | 10.90 | 33.312 | 25.479 | 251.1 | 0.243 | 5.27 | 84.2 | 8.9 | 0.92 | 9.0 | 0.05 | 0.19 | 0.12 | 85 213 |
| 95 | | 10.61 | 10.60 | 33.497 | 25.676 | 232.6 | 0.267 | 4.61 | 73.2 | 12.7 | 1.15 | 13.1 | 0.03 | 0.12 | 0.11 | 95 212 |
| 100 | ISL | 10.40 | 10.39 | 33.537 | 25.744 | 226.3 | 0.279 | 4.43 | 70.1 | 14.2 | 1.24 | 14.6 | 0.03 | 0.09 | 0.10 | 100 |
| 111 | | 10.00 | 9.99 | 33.588 | 25.852 | 216.1 | 0.303 | 4.13 | 64.8 | 17.1 | 1.40 | 17.1 | 0.02 | 0.05 | 0.07 | 112 211 |
| 125 | | 9.94 | 9.93 | 33.697 | 25.947 | 207.4 | 0.333 | 3.65 | 57.2 | 20.4 | 1.58 | 19.8 | 0.01 | 0.04 | 0.08 | 126 210 |
| 144 | | 9.51 | 9.49 | 33.820 | 26.115 | 191.8 | 0.371 | 3.27 | 50.8 | 24.8 | 1.77 | 23.0 | 0.01 | 0.01 | 0.07 | 145 209 |
| 150 | ISL | 9.41 | 9.39 | 33.856 | 26.160 | 187.7 | 0.382 | 3.15 | 48.8 | 26.1 | 1.82 | 23.8 | 0.01 | 0.01 | 0.06 | 151 |
| 170 | | 9.15 | 9.13 | 33.954 | 26.278 | 176.7 | 0.419 | 2.81 | 43.3 | 30.0 | 1.97 | 25.8 | 0.01 | 0.01 | 0.05 | 171 208 |
| 199 | | 8.90 | 8.88 | 34.028 | 26.376 | 167.9 | 0.469 | 2.53 | 38.8 | 33.3 | 2.08 | 27.4 | 0.01 | 0.00 | 0.05 | 200 207 |
| 200 | ISL | 8.89 | 8.87 | 34.030 | 26.380 | 167.6 | 0.470 | 2.52 | 38.7 | 33.4 | 2.08 | 27.5 | 0.01 | | 201 | |
| 229 | | 8.51 | 8.49 | 34.067 | 26.468 | 159.7 | 0.518 | 2.31 | 35.1 | 37.3 | 2.20 | 28.9 | 0.01 | | 230 206 | |
| 250 | ISL | 8.18 | 8.15 | 34.081 | 26.529 | 154.1 | 0.551 | 2.18 | 32.9 | 40.5 | 2.29 | 30.0 | 0.00 | | 251 | |
| 269 | | 7.89 | 7.86 | 34.091 | 26.580 | 149.4 | 0.580 | 2.04 | 30.6 | 43.7 | 2.37 | 31.1 | 0.00 | | 271 205 | |
| 300 | ISL | 7.49 | 7.46 | 34.118 | 26.660 | 142.2 | 0.625 | 1.68 | 25.0 | 49.4 | 2.53 | 33.0 | 0.00 | | 302 | |
| 319 | | 7.28 | 7.25 | 34.136 | 26.704 | 138.2 | 0.651 | 1.45 | 21.4 | 52.9 | 2.63 | 34.2 | 0.00 | | 321 204 | |
| 378 | | 6.80 | 6.76 | 34.197 | 26.8 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|------|------|
| 31 25.2 N | 121 59.5 W | 10/04/01 | 0740 | UTC | 3842 m | 330 | 15 kn | | | 1022.1 mb | 13.0 C | 10.0 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 15.16 | 15.16 | 33.641 | 24.890 | 305.2 | 0.000 | 5.80 | 101.4 | 3.2 | 0.28 | 0.0 | 0.00 | 0.10 | 0.03 | 0 | |
| 3 | 15.16 | 15.16 | 33.641 | 24.890 | 305.3 | 0.009 | 5.80 | 101.4 | 3.2 | 0.28 | 0.0 | 0.00 | 0.10 | 0.03 | 3 | 224 |
| 10 ISL | 15.16 | 15.16 | 33.644 | 24.893 | 305.3 | 0.031 | 5.79 | 101.3 | 3.2 | 0.28 | 0.0 | 0.00 | 0.11 | 0.04 | 10 | |
| 15 | 15.16 | 15.16 | 33.646 | 24.895 | 305.3 | 0.046 | 5.78 | 101.1 | 3.2 | 0.28 | 0.0 | 0.00 | 0.11 | 0.04 | 15 | 219 |
| 20 ISL | 15.16 | 15.16 | 33.644 | 24.893 | 305.6 | 0.061 | 5.78 | 101.1 | 3.2 | 0.28 | 0.0 | 0.00 | 0.11 | 0.04 | 20 | |
| 30 | 15.17 | 15.17 | 33.640 | 24.888 | 306.3 | 0.092 | 5.78 | 101.1 | 3.1 | 0.28 | 0.0 | 0.00 | 0.11 | 0.03 | 30 | 218 |
| 44 | 15.16 | 15.15 | 33.639 | 24.890 | 306.6 | 0.135 | 5.80 | 101.4 | 3.1 | 0.28 | 0.0 | 0.00 | 0.10 | 0.03 | 44 | 217 |
| 50 ISL | 15.17 | 15.16 | 33.641 | 24.890 | 306.8 | 0.153 | 5.79 | 101.3 | 3.1 | 0.28 | 0.0 | 0.00 | 0.10 | 0.03 | 50 | |
| 61 | 15.19 | 15.18 | 33.647 | 24.890 | 307.1 | 0.187 | 5.78 | 101.1 | 3.1 | 0.29 | 0.0 | 0.00 | 0.10 | 0.03 | 61 | 216 |
| 75 ISL | 15.20 | 15.19 | 33.651 | 24.892 | 307.4 | 0.230 | 5.79 | 101.3 | 3.0 | 0.28 | 0.0 | 0.00 | 0.11 | 0.03 | 75 | |
| 76 | 15.20 | 15.19 | 33.652 | 24.892 | 307.4 | 0.233 | 5.79 | 101.3 | 3.0 | 0.28 | 0.0 | 0.00 | 0.11 | 0.03 | 76 | 215 |
| 85 | 15.22 | 15.21 | 33.662 | 24.896 | 307.3 | 0.260 | 5.79 | 101.4 | 3.0 | 0.28 | 0.0 | 0.00 | 0.11 | 0.04 | 85 | 214 |
| 94 | 15.23 | 15.22 | 33.668 | 24.899 | 307.3 | 0.288 | 5.78 | 101.2 | 2.9 | 0.28 | 0.0 | 0.00 | 0.13 | 0.04 | 94 | 213 |
| 100 ISL | 15.24 | 15.22 | 33.675 | 24.902 | 307.2 | 0.307 | 5.78 | 101.3 | 2.9 | 0.28 | 0.0 | 0.00 | 0.14 | 0.04 | 100 | |
| 104 | 15.24 | 15.22 | 33.679 | 24.906 | 307.0 | 0.319 | 5.78 | 101.3 | 2.9 | 0.28 | 0.0 | 0.00 | 0.15 | 0.04 | 104 | 212 |
| 114 | 14.48 | 14.46 | 33.634 | 25.035 | 294.8 | 0.349 | 5.67 | 97.8 | 3.5 | 0.36 | 0.7 | 0.05 | 0.38 | 0.23 | 115 | 211 |
| 124 | 13.44 | 13.42 | 33.591 | 25.217 | 277.5 | 0.378 | 5.58 | 94.2 | 4.4 | 0.46 | 2.0 | 0.09 | 0.31 | 0.21 | 125 | 210 |
| 125 ISL | 13.34 | 13.32 | 33.587 | 25.234 | 275.9 | 0.380 | 5.58 | 94.0 | 4.5 | 0.47 | 2.1 | 0.09 | 0.31 | 0.21 | 126 | |
| 139 | 12.05 | 12.03 | 33.550 | 25.458 | 254.8 | 0.417 | 5.48 | 89.8 | 5.8 | 0.60 | 4.5 | 0.05 | 0.24 | 0.15 | 140 | 209 |
| 150 ISL | 11.30 | 11.28 | 33.549 | 25.596 | 241.7 | 0.445 | 5.24 | 84.5 | 8.0 | 0.77 | 7.5 | 0.03 | 0.16 | 0.11 | 151 | |
| 162 | 10.67 | 10.65 | 33.575 | 25.728 | 229.2 | 0.473 | 4.90 | 78.0 | 11.1 | 0.98 | 11.1 | 0.01 | 0.08 | 0.07 | 163 | 208 |
| 194 | 9.66 | 9.64 | 33.798 | 26.074 | 196.8 | 0.541 | 3.97 | 61.9 | 21.1 | 1.49 | 19.3 | 0.00 | 0.01 | 0.02 | 195 | 207 |
| 200 ISL | 9.53 | 9.51 | 33.831 | 26.121 | 192.4 | 0.553 | 3.84 | 59.7 | 22.5 | 1.55 | 20.3 | 0.00 | | | 201 | |
| 230 | 8.95 | 8.93 | 33.956 | 26.313 | 174.6 | 0.608 | 3.36 | 51.6 | 28.7 | 1.79 | 24.1 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.55 | 8.52 | 33.997 | 26.407 | 165.8 | 0.642 | 3.15 | 47.9 | 32.6 | 1.91 | 25.9 | 0.00 | | | 251 | |
| 269 | 8.20 | 8.17 | 34.019 | 26.478 | 159.3 | 0.673 | 2.99 | 45.1 | 36.1 | 2.01 | 27.3 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.78 | 7.75 | 34.042 | 26.558 | 152.0 | 0.721 | 2.72 | 40.7 | 40.7 | 2.16 | 29.2 | 0.00 | | | 302 | |
| 319 | 7.53 | 7.50 | 34.048 | 26.599 | 148.3 | 0.750 | 2.53 | 37.6 | 43.8 | 2.25 | 30.4 | 0.00 | | | 321 | 204 |
| 375 | 6.57 | 6.54 | 34.064 | 26.744 | 134.7 | 0.829 | 1.77 | 25.7 | 57.5 | 2.60 | 35.1 | 0.00 | | | 377 | 203 |
| 400 ISL | 6.38 | 6.34 | 34.092 | 26.791 | 130.5 | 0.862 | 1.43 | 20.7 | 62.0 | 2.73 | 36.6 | 0.00 | | | 402 | |
| 434 | 6.22 | 6.18 | 34.136 | 26.847 | 125.6 | 0.906 | 1.03 | 14.9 | 67.5 | 2.87 | 38.2 | 0.00 | | | 437 | 202 |
| 500 ISL | 5.74 | 5.70 | 34.203 | 26.961 | 115.2 | 0.985 | 0.58 | 8.3 | 78.4 | 3.07 | 40.6 | 0.00 | | | 503 | |
| 514 | 5.64 | 5.60 | 34.218 | 26.985 | 113.0 | 1.001 | 0.49 | 7.0 | 80.7 | 3.11 | 41.1 | 0.00 | | | 517 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 4.9 N | 122 39.2 W | 10/04/01 | 0051 | UTC | 4055 m | 330 | 23 kn | 330 13 08 | 1 | 1021.2 mb | 14.2 C | 11.2 C | 4/8 | CU | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 15.49 | 15.49 | 33.643 | 24.819 | 312.0 | 0.000 | 5.79 | 101.9 | 3.0 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 0 | |
| 3 | 15.49 | 15.49 | 33.643 | 24.819 | 312.1 | 0.009 | 5.79 | 101.9 | 3.0 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 3 | 220 |
| 10 ISL | 15.49 | 15.49 | 33.643 | 24.819 | 312.3 | 0.031 | 5.77 | 101.6 | 3.0 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 10 | |
| 15 | 15.49 | 15.49 | 33.643 | 24.820 | 312.4 | 0.047 | 5.76 | 101.4 | 3.0 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 15 | 219 |
| 20 ISL | 15.49 | 15.49 | 33.643 | 24.820 | 312.6 | 0.062 | 5.76 | 101.4 | 3.0 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 20 | |
| 28 | 15.49 | 15.49 | 33.643 | 24.820 | 312.8 | 0.087 | 5.76 | 101.4 | 2.9 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 28 | 218 |
| 30 ISL | 15.49 | 15.49 | 33.643 | 24.820 | 312.8 | 0.094 | 5.76 | 101.4 | 2.9 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 30 | |
| 44 | 15.47 | 15.46 | 33.640 | 24.823 | 313.0 | 0.138 | 5.78 | 101.7 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.01 | 44 | 217 |
| 50 ISL | 15.47 | 15.46 | 33.641 | 24.824 | 313.1 | 0.156 | 5.78 | 101.7 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.01 | 50 | |
| 58 | 15.47 | 15.46 | 33.642 | 24.825 | 313.3 | 0.181 | 5.77 | 101.5 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 58 | 216 |
| 75 ISL | 15.98 | 15.97 | 33.848 | 24.870 | 309.6 | 0.234 | 5.70 | 101.4 | 2.7 | 0.26 | 0.1 | 0.00 | 0.15 | 0.07 | 75 | |
| 76 | 16.00 | 15.99 | 33.856 D | 24.871 | 309.5 | 0.237 | 5.70 | 101.4 | 2.7 | 0.26 | 0.1 | 0.00 | 0.15 | 0.08 | 76 | 215 |
| 85 | 15.65 | 15.64 | 33.880 | 24.969 | 300.5 | 0.265 | 5.67 | 100.3 | 2.8 | 0.26 | 0.1 | 0.00 | 0.31 | 0.17 | 85 | 214 |
| 93 | 14.61 | 14.60 | 33.676 | 25.039 | 293.9 | 0.289 | 5.73 | 99.1 | 3.4 | 0.32 | 0.4 | 0.03 | 0.38 | 0.23 | 93 | 213 |
| 100 ISL | 13.45 | 13.44 | 33.523 | 25.162 | 282.1 | 0.309 | 5.70 | 96.2 | 4.1 | 0.40 | 1.2 | 0.06 | 0.37 | 0.25 | 100 | |
| 104 | 12.82 | 12.81 | 33.461 | 25.240 | 274.8 | 0.320 | 5.69 | 94.7 | 4.5 | 0.46 | 1.9 | 0.07 | 0.36 | 0.25 | 104 | 212 |
| 115 | 11.87 | 11.86 | 33.420 | 25.390 | 260.6 | 0.349 | 5.53 | 90.2 | 5.8 | 0.61 | 4.3 | 0.05 | 0.25 | 0.27 | 116 | 211 |
| 123 | 11.27 | 11.25 | 33.397 | 25.482 | 251.8 | 0.370 | 5.42 | 87.3 | 7.0 | 0.72 | 6.2 | 0.03 | 0.19 | 0.23 | 124 | 210 |
| 125 ISL | 11.18 | 11.16 | 33.393 | 25.495 | 250.6 | 0.375 | 5.38 | 86.5 | 7.4 | 0.75 | 6.7 | 0.03 | 0.18 | 0.21 | 126 | |
| 140 | 10.72 | 10.70 | 33.402 D | 25.584 | 242.4 | 0.412 | | | | | | | 0.12 | 0.05 | 141 | 209 |
| 150 ISL | 10.31 | 10.29 | 33.460 | 25.700 | 231.5 | 0.436 | 4.83 | 76.2 | 12.6 | 1.11 | 12.8 | 0.02 | 0.08 | 0.05 | 151 | |
| 165 | 9.76 | 9.74 | 33.580 | 25.887 | 213.9 | 0.469 | 4.40 | 68.6 | 16.4 | 1.32 | 16.3 | 0.01 | 0.04 | 0.05 | 166 | 208 |
| 194 | 9.35 | 9.33 | 33.793 | 26.121 | 192.2 | 0.528 | 3.51 | 54.3 | 24.4 | 1.70 | 22.5 | 0.01 | 0.01 | 0.02 | 195 | 207 |
| 200 ISL | 9.27 | 9.25 | 33.825 | 26.159 | 188.7 | 0.539 | 3.40 | 52.5 | 25.6 | 1.75 | 23.3 | 0.01 | | | 201 | |
| | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|--------|-----------|--------|----------|--------|--------|---------|------|
| 30 46.3 N | 123 20.4 W | 09/04/01 | 1803 | UTC | 4026 m | 320 | 21 kn | 320 13 08 | 1 | 1022.0 mb | 13.1 | C 10.3 C | 27m | 4/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 15.52 | 15.52 | 33.644 | 24.813 | 312.6 | 0.000 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 0 | |
| 3 A | 15.52 | 15.52 | 33.644 | 24.813 | 312.6 | 0.009 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 3 222 | |
| 10 ISL | 15.52 | 15.52 | 33.644 | 24.814 | 312.8 | 0.031 | 5.75 | 101.3 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 10 | |
| 18 A | 15.52 | 15.52 | 33.643 | 24.813 | 313.1 | 0.056 | 5.74 | 101.1 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 18 221 | |
| 20 ISL | 15.52 | 15.52 | 33.643 | 24.813 | 313.2 | 0.063 | 5.75 | 101.3 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 20 | |
| 26 | 15.52 | 15.52 | 33.643 | 24.813 | 313.4 | 0.081 | 5.76 | 101.5 | 2.8 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | 26 220 | |
| 30 ISL | 15.52 | 15.52 | 33.643 | 24.813 | 313.5 | 0.094 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.08 | 0.01 | 30 | |
| 35 A | 15.52 | 15.51 | 33.644 | 24.814 | 313.5 | 0.110 | 5.74 | 101.1 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.01 | 35 219 | |
| 44 | 15.52 | 15.51 | 33.644 | 24.815 | 313.8 | 0.138 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 44 218 | |
| 50 ISL | 15.52 | 15.51 | 33.645 | 24.816 | 313.9 | 0.157 | 5.75 | 101.3 | 2.7 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 50 | |
| 55 A | 15.53 | 15.52 | 33.646 | 24.814 | 314.2 | 0.172 | 5.75 | 101.3 | 2.7 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 55 217 | |
| 71 A | 15.54 | 15.53 | 33.647 | 24.813 | 314.8 | 0.223 | 5.74 | 101.1 | 2.7 | 0.28 | 0.2 | 0.00 | 0.08 | 0.02 | 71 216 | |
| 75 ISL | 15.54 | 15.53 | 33.647 | 24.814 | 314.9 | 0.235 | 5.74 | 101.1 | 2.7 | 0.28 | 0.2 | 0.00 | 0.08 | 0.01 | 75 | |
| 79 | 15.54 | 15.53 | 33.647 | 24.814 | 315.0 | 0.248 | 5.74 | 101.1 | 2.7 | 0.28 | 0.2 | 0.00 | 0.09 | 0.00 | 79 215 | |
| 90 | 15.51 | 15.50 | 33.645 | 24.819 | 314.8 | 0.282 | 5.74 | 101.1 | 2.7 | 0.29 | 0.2 | 0.00 | 0.09 | 0.03 | 90 214 | |
| 100 ISL | 14.91 | 14.90 | 33.550 | 24.878 | 309.4 | 0.314 | 5.78 | 100.5 | 3.0 | 0.31 | 0.1 | 0.00 | 0.22 | 0.16 | 100 | |
| 101 A | 14.81 | 14.79 | 33.535 | 24.888 | 308.5 | 0.317 | 5.78 | 100.3 | 3.0 | 0.31 | 0.1 | 0.00 | 0.24 | 0.17 | 101 213 | |
| 105 | 14.26 | 14.24 | 33.459 | 24.946 | 303.0 | 0.329 | 5.80 | 99.5 | 3.2 | 0.35 | 0.3 | 0.02 | 0.36 | 0.20 | 105 212 | |
| 113 | 13.42 | 13.40 | 33.430 | 25.097 | 288.7 | 0.353 | 5.73 | 96.6 | 3.8 | 0.42 | 1.2 | 0.07 | 0.32 | 0.21 | 113 211 | |
| 123 | 12.24 | 12.22 | 33.362 | 25.275 | 271.7 | 0.381 | 5.65 | 92.9 | 4.7 | 0.54 | 2.8 | 0.08 | 0.30 | 0.24 | 124 210 | |
| 125 ISL | 12.05 | 12.03 | 33.358 | 25.308 | 268.6 | 0.386 | 5.63 | 92.1 | 4.9 | 0.57 | 3.3 | 0.07 | 0.29 | 0.23 | 126 | |
| 140 | 10.90 | 10.88 | 33.384 | 25.538 | 246.8 | 0.425 | 5.36 | 85.6 | 7.5 | 0.80 | 7.5 | 0.02 | 0.17 | 0.14 | 141 209 | |
| 150 ISL | 10.38 | 10.36 | 33.439 | 25.672 | 234.2 | 0.449 | 5.05 | 79.8 | 10.4 | 0.99 | 10.8 | 0.02 | 0.11 | 0.10 | 151 | |
| 166 | 9.83 | 9.81 | 33.554 | 25.855 | 217.0 | 0.485 | 4.49 | 70.1 | 15.6 | 1.29 | 15.7 | 0.01 | 0.04 | 0.06 | 167 208 | |
| 195 | 9.36 | 9.34 | 33.768 | 26.100 | 194.2 | 0.545 | 3.70 | 57.3 | 22.9 | 1.64 | 21.3 | 0.00 | 0.01 | 0.02 | 196 207 | |
| 200 ISL | 9.27 | 9.25 | 33.804 | 26.142 | 190.3 | 0.554 | 3.59 | 55.5 | 24.2 | 1.69 | 22.1 | 0.00 | | | 201 | |
| 226 | 8.78 | 8.76 | 33.960 | 26.342 | 171.6 | 0.601 | 3.09 | 47.3 | 30.6 | 1.91 | 25.9 | 0.00 | | | 227 206 | |
| 250 ISL | 8.37 | 8.34 | 34.022 | 26.454 | 161.3 | 0.641 | 2.65 | 40.2 | 35.9 | 2.10 | 28.4 | 0.00 | | | 251 | |
| 268 | 8.08 | 8.05 | 34.043 | 26.515 | 155.7 | 0.670 | 2.35 | 35.4 | 39.6 | 2.23 | 29.9 | 0.00 | | | 269 205 | |
| 300 ISL | 7.62 | 7.59 | 34.084 | 26.615 | 146.6 | 0.718 | 1.89 | 28.2 | 46.3 | 2.44 | 32.2 | 0.00 | | | 302 | |
| 321 | 7.34 | 7.31 | 34.099 | 26.666 | 141.8 | 0.748 | 1.66 | 24.6 | 50.4 | 2.55 | 33.5 | 0.00 | | | 323 204 | |
| 378 | 6.63 | 6.60 | 34.089 | 26.756 | 133.7 | 0.827 | 1.43 | 20.8 | 58.6 | 2.69 | 36.0 | 0.00 | | | 380 203 | |
| 400 ISL | 6.41 | 6.37 | 34.108 | 26.800 | 129.7 | 0.856 | | | | | | | | | 402 | |
| 433 | 6.13 | 6.09 | 34.143 D | 26.864 | 123.8 | 0.898 | 0.75 U | 10.8 U | 74.0 U | 2.99 U | 39.8 U | 0.00 U | | | 436 202 | |
| 500 ISL | 5.66 | 5.62 | 34.186 | 26.957 | 115.5 | 0.978 | | | | | | | | | 503 | |
| 511 | 5.58 | 5.54 | 34.193 D | 26.972 | 114.1 | 0.990 | 0.79 U | 11.2 U | 72.9 U | 2.98 U | 39.4 U | 0.00 U | | | 514 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 120

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|--------|---------|------|
| 30 25.6 N | 124 0.1 W | 09/04/01 | 1000 | UTC | 330 | 23 | kn | | | 1021.6 mb | 13.0 | C 10.5 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 15.69 | 15.69 | 33.724 | 24.837 | 310.3 | 0.000 | 5.75 | 101.7 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 0 | |
| 2 | 15.69 | 15.69 | 33.724 | 24.837 | 310.4 | 0.006 | 5.75 | 101.7 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 2 220 | |
| 10 ISL | 15.70 | 15.70 | 33.724 | 24.835 | 310.8 | 0.031 | 5.76 | 101.9 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 10 | |
| 16 | 15.71 | 15.71 | 33.724 | 24.835 | 311.2 | 0.050 | 5.76 | 101.9 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 16 219 | |
| 20 ISL | 15.71 | 15.71 | 33.725 | 24.834 | 311.2 | 0.062 | 5.76 | 101.9 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 20 | |
| 30 ISL | 15.73 | 15.73 | 33.728 | 24.832 | 311.7 | 0.093 | 5.75 | 101.8 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 30 | |
| 32 | 15.73 | 15.73 | 33.729 | 24.833 | 311.7 | 0.100 | 5.75 | 101.8 | 3.0 | 0.27 | 0.2 | 0.00 | 0.07 | 0.02 | 32 218 | |
| 47 | 15.78 | 15.77 | 33.748 | 24.837 | 311.8 | 0.146 | 5.74 | 101.7 | 2.9 | 0.27 | 0.2 | 0.00 | 0.07 | 0.01 | 47 217 | |
| 50 ISL | 15.80 | 15.79 | 33.754 | 24.837 | 311.9 | 0.156 | 5.74 | 101.7 | 2.9 | 0.27 | 0.2 | 0.00 | 0.07 | 0.01 | 50 | |
| 61 | 15.88 | 15.87 | 33.782 | 24.841 | 311.9 | 0.190 | 5.72 | 101.6 | 2.8 | 0.26 | 0.2 | 0.00 | 0.07 | 0.02 | 61 216 | |
| 71 | 15.96 | 15.95 | 33.813 | 24.847 | 311.6 | 0.221 | 5.72 | 101.7 | 2.8 | 0.26 | 0.2 | 0.00 | 0.07 | 0.02 | 71 215 | |
| 75 ISL | 16.01 | 16.00 | 33.829 | 24.848 | 311.6 | 0.234 | 5.71 | 101.7 | 2.8 | 0.25 | 0.2 | 0.00 | 0.07 | 0.02 | 75 | |
| 84 | 16.13 | 16.12 | 33.882 | 24.862 | 310.6 | 0.262 | 5.68 | 101.4 | 2.8 | 0.24 | 0.2 | 0.00 | 0.08 | 0.02 | 84 214 | |
| 94 | 16.24 | 16.23 | 33.974 | 24.908 | 306.6 | 0.292 | 5.65 | 101.1 | 2.7 | 0.23 | 0.2 | 0.00 | 0.12 | 0.03 | 94 213 | |
| 100 ISL | 16.12 | 16.10 | 34.005 | 24.959 | 301.9 | 0.311 | 5.66 | 101.1 | 2.7 | 0.23 | 0.2 | 0.00 | 0.20 | 0.06 | 100 | |
| 107 | 15.98 | 15.96 | 34.042 | 25.020 | 296.4 | 0.332 | 5.66 | 100.8 | 2.7 | 0.24 | 0.2 | 0.01 | 0.28 | 0.11 | 107 212 | |
| 113 | 13.57 | 13.55 | 33.676 | 25.256 | 273.6 | 0.349 | 5.64 | 95.5 | 4.1 | 0.41 | 1.6 | 0.09 | 0.29 | 0.15 | 113 211 | |
| 125 | 12.92 | 12.90 | 33.726 | 25.426 | 257.7 | 0.381 | 5.45 | 91.1 | 4.9 | 0.50 | 3.4 | 0.05 | 0.22 | 0.14 | 126 210 | |
| 140 | 11.83 | 11.81 | 33.613 | 25.548 | 246.2 | 0.418 | 5.32 | 86.8 | 6.7 | 0.67 | 6.0 | 0.03 | 0.18 | 0.12 | 141 209 | |
| 150 ISL | 11.34 | 11.34 | 33.588 | 25.615 | 239.9 | 0.443 | 5.26 | 84.9 | 7.5 | 0.74 | 7.2 | 0.02 | 0.14 | 0.10 | 151 | |
| 162 | 10.92 | 10.90 | 33.598 | 25.702 | 231.8 | 0.471 | 5.17 | 82.7 | 8.7 | 0.83 | 8.6 | 0.01 | 0.09 | 0.08 | 163 208 | |
| 197 | 9.76 | 9.74 | 33.827 | 26.080 | 196.3 | 0.546 | 4.44 | 69.3 | 17.4 | 1.27 | 16.7 | 0.00 | 0.00 | 0.03 | 198 207 | |
| 200 ISL | 9.69 | 9.67 | 3 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 56 m | 250 | 11 kn | 260 03 06 | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 57.3 N | 117 18.0 W | 05/04/01 | 1959 | UTC | 24.605 | 332.4 | 0.000 | 6.22 | 110.0 | 2.8 | 0.18 | 0.2 | 0.00 | 0.67 | 0.10 | 0 |
| 0 ISL | 15.77 | 15.77 | 33.446 | 24.700 | 332.4 | 0.003 | 6.22 | 110.0 | 2.8 | 0.18 | 0.2 | 0.00 | 0.67 | 0.10 | 1 | 207 |
| 1 | 15.77 | 15.77 | 33.446 | 24.620 | 331.1 | 0.020 | 6.24 | 110.2 | 2.8 | 0.18 | 0.2 | 0.00 | 0.60 | 0.20 | 6 | 206 |
| 6 | 15.71 | 15.71 | 33.448 | 24.623 | 331.0 | 0.033 | 6.25 | 110.4 | 2.8 | 0.18 | 0.2 | 0.00 | 0.60 | 0.22 | 10 | |
| 10 ISL | 15.70 | 15.70 | 33.448 | 24.625 | 330.9 | 0.043 | 6.25 | 110.3 | 2.8 | 0.18 | 0.2 | 0.00 | 0.60 | 0.24 | 13 | 205 |
| 13 | 15.69 | 15.69 | 33.448 | 24.625 | 330.9 | 0.043 | 6.25 | 110.3 | 2.8 | 0.18 | 0.2 | 0.00 | 0.60 | 0.24 | 13 | 205 |
| 20 | 12.61 | 12.61 | 33.506 | 25.313 | 265.5 | 0.064 | 4.86 | 80.6 | 8.7 | 0.77 | 5.7 | 0.45 | 1.20 | 0.77 | 20 | 204 |
| 26 | 11.84 | 11.84 | 33.585 | 25.521 | 245.8 | 0.079 | 4.02 | 65.6 | 13.5 | 1.20 | 12.1 | 0.60 | 0.69 | 0.50 | 26 | 203 |
| 30 ISL | 11.53 | 11.53 | 33.634 | 25.617 | 236.8 | 0.089 | 3.70 | 60.0 | 16.1 | 1.38 | 14.7 | 0.58 | 0.52 | 0.40 | 30 | |
| 37 | 11.21 | 11.21 | 33.702 | 25.728 | 226.4 | 0.105 | 3.37 | 54.3 | 19.4 | 1.56 | 17.3 | 0.54 | 0.38 | 0.32 | 37 | 202 |
| 49 | 10.93 | 10.92 | 33.757 | 25.822 | 217.8 | 0.132 | 3.04 | 48.7 | 21.8 | 1.66 | 19.0 | 0.41 | 0.25 | 0.29 | 49 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 28

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 600 m | 230 | 13 kn | 260 03 06 | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 54.6 N | 117 23.6 W | 05/04/01 | 2229 | UTC | 24.645 | 328.6 | 0.000 | 6.23 | 109.8 | 2.8 | 0.22 | 0.1 | 0.00 | 0.56 | 0.01 | 0 |
| 0 ISL | 15.61 | 15.61 | 33.451 | 24.700 | 328.7 | 0.007 | 6.23 | 109.8 | 2.8 | 0.22 | 0.1 | 0.00 | 0.56 | 0.01 | 2 | 220 |
| 2 | 15.61 | 15.61 | 33.451 | 24.700 | 323.6 | 0.033 | 6.33 | 110.0 | 2.9 | 0.23 | 0.2 | 0.00 | 0.43 | 0.09 | 10 | |
| 10 ISL | 15.33 | 15.33 | 33.442 | 24.706 | 323.1 | 0.036 | 6.34 | 111.1 | 2.9 | 0.23 | 0.2 | 0.00 | 0.41 | 0.10 | 11 | 219 |
| 11 | 15.30 | 15.30 | 33.441 | 24.706 | 323.1 | 0.036 | 6.34 | 111.1 | 2.9 | 0.23 | 0.2 | 0.00 | 0.41 | 0.10 | 11 | 219 |
| 20 ISL | 13.52 | 13.52 | 33.473 | 25.107 | 285.1 | 0.063 | 6.09 | 102.9 | 4.9 | 0.35 | 0.5 | 0.04 | 1.63 | 0.52 | 20 | |
| 21 | 13.31 | 13.31 | 33.481 | 25.156 | 280.5 | 0.066 | 6.06 | 102.0 | 5.2 | 0.38 | 0.5 | 0.04 | 1.75 | 0.56 | 21 | 218 |
| 30 ISL | 12.44 | 12.44 | 33.545 | 25.377 | 259.7 | 0.090 | 4.95 | 81.8 | 8.8 | 0.82 | 7.1 | 0.27 | 1.12 | 0.52 | 30 | |
| 31 | 12.38 | 12.38 | 33.552 | 25.394 | 258.1 | 0.093 | 4.82 | 79.6 | 9.2 | 0.87 | 7.9 | 0.29 | 1.01 | 0.52 | 31 | 217 |
| 41 | 11.83 | 11.82 | 33.593 | 25.530 | 245.4 | 0.118 | 4.19 | 68.4 | 12.6 | 1.15 | 12.5 | 0.13 | 0.57 | 0.35 | 41 | 216 |
| 50 ISL | 11.09 | 11.08 | 33.606 | 25.676 | 231.7 | 0.140 | 3.94 | 63.3 | 15.4 | 1.33 | 15.5 | 0.05 | 0.27 | 0.30 | 50 | |
| 51 | 11.02 | 11.01 | 33.608 | 25.690 | 230.4 | 0.142 | 3.93 | 63.0 | 15.7 | 1.35 | 15.8 | 0.05 | 0.25 | 0.30 | 51 | 215 |
| 60 | 10.75 | 10.74 | 33.637 | 25.760 | 223.9 | 0.162 | 3.80 | 60.6 | 17.0 | 1.43 | 17.1 | 0.04 | 0.18 | 0.23 | 60 | 214 |
| 70 | 10.54 | 10.53 | 33.729 | 25.869 | 213.7 | 0.184 | 3.43 | 54.5 | 20.0 | 1.58 | 19.4 | 0.02 | 0.10 | 0.14 | 70 | 213 |
| 75 ISL | 10.43 | 10.42 | 33.753 | 25.907 | 210.3 | 0.195 | 3.34 | 52.9 | 20.9 | 1.62 | 20.1 | 0.02 | 0.07 | 0.12 | 75 | |
| 85 | 10.20 | 10.19 | 33.794 | 25.978 | 203.6 | 0.216 | 3.21 | 50.6 | 22.6 | 1.70 | 21.4 | 0.02 | 0.04 | 0.09 | 85 | 212 |
| 100 | 9.89 | 9.88 | 33.911 | 26.122 | 190.3 | 0.245 | 2.85 | 44.7 | 26.4 | 1.88 | 23.8 | 0.01 | 0.01 | 0.08 | 101 | 211 |
| 120 | 9.63 | 9.62 | 33.993 | 26.230 | 180.4 | 0.282 | 2.57 | 40.1 | 29.4 | 1.99 | 25.4 | 0.01 | 0.01 | 0.05 | 121 | 210 |
| 125 ISL | 9.55 | 9.54 | 33.998 | 26.247 | 178.9 | 0.291 | 2.57 | 40.0 | 29.7 | 2.00 | 25.6 | 0.01 | 0.01 | 0.05 | 126 | |
| 139 | 9.38 | 9.36 | 34.013 | 26.287 | 175.3 | 0.316 | 2.57 | 39.9 | 30.7 | 2.02 | 26.1 | 0.01 | 0.01 | 0.04 | 140 | 209 |
| 150 ISL | 9.43 | 9.41 | 34.075 | 26.328 | 171.8 | 0.335 | 2.27 | 35.3 | 32.5 | 2.12 | 26.9 | 0.01 | 0.01 | 0.04 | 151 | |
| 169 | 9.55 | 9.53 | 34.189 | 26.397 | 165.6 | 0.367 | 1.70 | 26.5 | 35.8 | 2.32 | 28.3 | 0.01 | 0.01 | 0.04 | 170 | 208 |
| 200 | 9.24 | 9.22 | 34.222 | 26.474 | 158.8 | 0.417 | 1.52 | 23.5 | 38.7 | 2.41 | 29.4 | 0.01 | 0.00 | 0.05 | 201 | 207 |
| 231 | 9.03 | 9.00 | 34.257 | 26.536 | 153.6 | 0.466 | 1.28 | 19.7 | 41.6 | 2.51 | 30.4 | 0.01 | 0.00 | 0.23 | 232 | 206 |
| 250 ISL | 8.83 | 8.80 | 34.264 | 26.573 | 150.3 | 0.495 | 1.20 | 18.4 | 43.5 | 2.56 | 31.0 | 0.01 | 0.00 | 0.25 | 252 | |
| 266 | 8.64 | 8.61 | 34.264 | 26.603 | 147.7 | 0.519 | 1.16 | 17.7 | 45.1 | 2.60 | 31.5 | 0.01 | 0.00 | 0.26 | 268 | 205 |
| 300 ISL | 8.25 | 8.22 | 34.259 | 26.659 | 142.8 | 0.568 | 1.06 | 16.0 | 48.6 | 2.68 | 32.6 | 0.01 | 0.00 | 0.27 | 302 | |
| 320 | 8.02 | 7.99 | 34.255 | 26.691 | 140.0 | 0.596 | 1.00 | 15.1 | 50.8 | 2.73 | 33.3 | 0.01 | 0.00 | 0.27 | 322 | 204 |
| 380 | 7.41 | 7.37 | 34.251 | 26.777 | 132.5 | 0.678 | 0.80 | 11.9 | 57.8 | 2.85 | 35.4 | 0.00 | 0.00 | 0.37 | 382 | 203 |
| 400 ISL | 7.22 | 7.18 | 34.258 | 26.809 | 129.6 | 0.704 | 0.71 | 10.5 | 60.4 | 2.90 | 36.1 | 0.00 | 0.00 | 0.43 | 403 | |
| 434 | 6.93 | 6.89 | 34.273 | 26.861 | 124.9 | 0.747 | 0.56 | 8.2 | 64.9 | 2.98 | 37.3 | 0.00 | 0.00 | 0.47 | 437 | 202 |
| 500 ISL | 6.48 | 6.43 | 34.293 | 26.938 | 118.3 | 0.828 | 0.40 | 5.8 | 72.1 | 3.08 | 39.0 | 0.00 | 0.00 | 0.50 | 503 | |
| 510 | 6.41 | 6.36 | 34.296 | 26.950 | 117.2 | 0.839 | 0.37 | 5.4 | 73.2 | 3.10 | 39.2 | 0.00 | 0.00 | 0.54 | 514 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 30

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|-------------|--------|--------|--------|-----------|-------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY PCT | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | | 859 m | 250 | 07 kn | 250 03 07 | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 50.7 N | 117 31.9 W | 06/04/01 | 0136 | UTC | 24.711 | 322.3 | 0.000 | 5.95 | 104.8 | 2.5 | 0.28 | 0.2 | 0.00 | 0.18 | 0.04 | 0 |
| 0 ISL | 15.54 | 15.54 | 33.517 | 24.711 | 322.4 | 0.006 | 5.95 | 104.8 | 2.5 | 0.28 | 0.2 | 0.00 | 0.18 | 0.04 | 2 | 220 |
| 2 | 15.54 | 15.54 | 33.517 | 24.714 | 322.4 | 0.032 | 5.92 | 104.2 | 2.5 | 0.28 | 0.2 | 0.00 | 0.18 | 0.05 | 10 | |
| 10 ISL | 15.53 | 15.53 | 33.517 | 24.714 | 322.4 | 0.035 | 5.92 | 104.2 | 2.5 | 0.28 | 0.2 | 0.00 | 0.18 | 0.05 | 11 | 219 |
| 11 | 15.53 | 15.53 | 33.517 | 24.714 | 322.4 | 0.035 | 6.17 | 106.7 | 2.9 | 0.30 | 0.2 | 0.00 | 0.19 | 0.06 | 20 | 218 |
| 29 | 13.42 | 13.42 | 33.514 | 25.159 | 280.4 | 0.090 | 5.86 | 98.8 | 4.8 | 0.47 | 2.0 | 0.09 | 0.58 | 0.25 | 29 | |
| 30 ISL | 13.31 | 13.31 | 33.517 | 25.184 | 278.1 | 0.093 | 5.78 | 97.3 | 5.2 | 0.50 | 2.5 | 0.11 | 0.63</ | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 35

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 40.9 N | 117 52.4 W | 06/04/01 | 0539 | UTC | 623 m | 230 | 01 kn | | | | | | | | | |
| 0 ISL | 14.87 | 14.87 | 33.505 | 24.848 | 309.2 | 0.000 | 5.90 | 102.5 | 3.5 | 0.33 | 0.2 | 0.00 | 0.11 | 0.02 | 0 | |
| 3 | 14.87 | 14.87 | 33.505 | 24.849 | 309.3 | 0.009 | 5.90 | 102.5 | 3.5 | 0.33 | 0.2 | 0.00 | 0.11 | 0.02 | 3 | 224 |
| 10 ISL | 14.88 | 14.88 | 33.505 | 24.847 | 309.7 | 0.031 | 5.94 | 103.2 | 3.5 | 0.32 | 0.2 | 0.00 | 0.12 | 0.02 | 10 | |
| 11 | 14.88 | 14.88 | 33.505 | 24.847 | 309.7 | 0.034 | 5.94 | 103.2 | 3.5 | 0.32 | 0.2 | 0.00 | 0.12 | 0.02 | 11 | 219 |
| 20 ISL | 14.87 | 14.87 | 33.507 | 24.851 | 309.6 | 0.062 | 5.89 | 102.3 | 3.5 | 0.32 | 0.2 | 0.00 | 0.12 | 0.03 | 20 | |
| 21 | 14.87 | 14.87 | 33.507 | 24.851 | 309.6 | 0.065 | 5.88 | 102.2 | 3.5 | 0.32 | 0.2 | 0.00 | 0.12 | 0.03 | 21 | 218 |
| 30 ISL | 14.69 | 14.69 | 33.496 | 24.881 | 307.0 | 0.093 | 5.91 | 102.3 | 3.4 | 0.32 | 0.2 | 0.00 | 0.15 | 0.03 | 30 | |
| 31 | 14.67 | 14.67 | 33.495 | 24.885 | 306.7 | 0.096 | 5.91 | 102.3 | 3.4 | 0.32 | 0.2 | 0.00 | 0.15 | 0.03 | 31 | 217 |
| 39 | 13.98 | 13.97 | 33.465 | 25.007 | 295.2 | 0.120 | 6.00 | 102.3 | 3.8 | 0.34 | 0.3 | 0.01 | 0.30 | 0.20 | 39 | 216 |
| 50 | 13.31 | 13.30 | 33.451 | 25.133 | 283.5 | 0.152 | 5.80 | 97.6 | 4.7 | 0.46 | 2.0 | 0.08 | 0.51 | 0.16 | 50 | 215 |
| 59 | 12.77 | 12.76 | 33.447 | 25.237 | 273.7 | 0.177 | 5.56 | 92.5 | 5.9 | 0.62 | 4.0 | 0.13 | 0.54 | 0.14 | 59 | 214 |
| 70 | 11.65 | 11.64 | 33.478 | 25.475 | 251.3 | 0.206 | 4.93 | 80.1 | 9.7 | 0.95 | 9.3 | 0.10 | 0.39 | 0.16 | 70 | 213 |
| 75 ISL | 11.30 | 11.29 | 33.562 | 25.604 | 239.1 | 0.218 | 4.36 | 70.3 | 13.3 | 1.18 | 12.8 | 0.07 | 0.31 | 0.15 | 75 | |
| 84 | 10.89 | 10.88 | 33.720 | 25.801 | 220.6 | 0.239 | 3.40 | 54.4 | 19.5 | 1.56 | 18.4 | 0.02 | 0.19 | 0.15 | 84 | 212 |
| 99 | 10.70 | 10.69 | 33.782 | 25.883 | 213.1 | 0.271 | 3.13 | 49.9 | 21.6 | 1.68 | 20.1 | 0.01 | 0.14 | 0.22 | 99 | 211 |
| 100 ISL | 10.69 | 10.68 | 33.787 | 25.888 | 212.6 | 0.273 | 3.11 | 49.6 | 21.8 | 1.69 | 20.2 | 0.01 | 0.14 | 0.21 | 100 | |
| 119 | 10.44 | 10.43 | 33.895 | 26.017 | 200.8 | 0.313 | 2.72 | 43.1 | 25.1 | 1.87 | 22.6 | 0.01 | 0.05 | 0.07 | 120 | 210 |
| 125 ISL | 10.41 | 10.40 | 33.924 | 26.045 | 198.3 | 0.325 | 2.61 | 41.4 | 26.0 | 1.91 | 23.1 | 0.01 | 0.04 | 0.07 | 126 | |
| 139 | 10.33 | 10.31 | 33.982 | 26.104 | 193.0 | 0.352 | 2.38 | 37.7 | 27.8 | 2.00 | 24.2 | 0.01 | 0.02 | 0.06 | 140 | 209 |
| 150 ISL | 10.19 | 10.17 | 34.014 | 26.153 | 188.5 | 0.373 | 2.29 | 36.2 | 28.9 | 2.05 | 24.9 | 0.01 | 0.02 | 0.06 | 151 | |
| 169 | 9.93 | 9.91 | 34.066 | 26.238 | 180.8 | 0.408 | 2.15 | 33.8 | 31.0 | 2.13 | 26.1 | 0.02 | 0.01 | 0.05 | 170 | 208 |
| 199 | 9.67 | 9.65 | 34.181 | 26.372 | 168.7 | 0.460 | 1.61 | 25.2 | 35.7 | 2.35 | 28.5 | 0.01 | 0.01 | 0.05 | 200 | 207 |
| 200 ISL | 9.66 | 9.64 | 34.183 | 26.375 | 168.4 | 0.462 | 1.60 | 25.0 | 35.8 | 2.35 | 28.5 | 0.01 | | | 201 | |
| 228 | 9.32 | 9.29 | 34.228 | 26.467 | 160.2 | 0.508 | 1.48 | 22.9 | 38.7 | 2.44 | 29.4 | 0.01 | | | 229 | 206 |
| 250 ISL | 9.07 | 9.04 | 34.264 | 26.535 | 154.0 | 0.543 | 1.27 | 19.6 | 41.7 | 2.54 | 30.4 | 0.01 | | | 251 | |
| 267 | 8.84 | 8.81 | 34.283 | 26.587 | 149.4 | 0.568 | 1.10 | 16.9 | 44.3 | 2.61 | 31.2 | 0.01 | | | 269 | 205 |
| 300 ISL | 8.17 | 8.14 | 34.266 | 26.677 | 141.1 | 0.616 | 0.98 | 14.8 | 50.2 | 2.71 | 33.1 | 0.01 | | | 302 | |
| 317 | 7.82 | 7.79 | 34.253 | 26.719 | 137.2 | 0.640 | 0.94 | 14.1 | 53.2 | 2.76 | 34.0 | 0.01 | | | 319 | 204 |
| 381 | 7.14 | 7.10 | 34.272 | 26.831 | 127.1 | 0.725 | 0.67 | 9.9 | 61.9 | 2.93 | 36.5 | 0.00 | | | 383 | 203 |
| 400 ISL | 6.97 | 6.93 | 34.274 | 26.856 | 124.9 | 0.749 | 0.60 | 8.8 | 64.3 | 2.97 | 37.2 | 0.00 | | | 403 | |
| 437 | 6.71 | 6.67 | 34.276 | 26.894 | 121.7 | 0.791 | 0.49 | 7.2 | 68.3 | 3.03 | 38.2 | 0.00 | | | 437 | 202 |
| 500 ISL | 6.37 | 6.32 | 34.293 | 26.953 | 116.8 | 0.869 | 0.39 | 5.7 | 73.9 | 3.12 | 39.4 | 0.00 | | | 503 | |
| 517 | 6.28 | 6.23 | 34.297 | 26.968 | 115.5 | 0.889 | 0.36 | 5.2 | 75.3 | 3.14 | 39.7 | 0.00 | | | 517 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 40

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 32 31.0 N | 118 13.1 W | 06/04/01 | 1006 | UTC | 1626 m | 180 | 14 kn | | | | | | | | | |
| 0 ISL | 14.34 | 14.34 | 33.369 | 24.856 | 308.4 | 0.000 | 5.93 | 101.8 | 3.5 | 0.32 | 0.2 | 0.00 | 0.15 | 0.05 | 0 | |
| 1 | 14.34 | 14.34 | 33.369 | 24.857 | 308.5 | 0.003 | 5.93 | 101.8 | 3.5 | 0.32 | 0.2 | 0.00 | 0.15 | 0.05 | 1 | 224 |
| 10 ISL | 14.34 | 14.34 | 33.368 | 24.856 | 308.8 | 0.031 | 5.94 | 102.0 | 3.5 | 0.33 | 0.2 | 0.00 | 0.15 | 0.05 | 10 | 219 |
| 20 | 14.34 | 14.34 | 33.371 | 24.859 | 308.8 | 0.062 | 5.96 | 102.4 | 3.5 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 20 | 218 |
| 30 | 14.20 | 14.20 | 33.451 | 24.950 | 300.4 | 0.092 | 5.96 | 102.1 | 3.5 | 0.32 | 0.2 | 0.01 | 0.28 | 0.07 | 30 | 217 |
| 40 | 14.08 | 14.07 | 33.461 | 24.983 | 297.5 | 0.122 | 5.95 | 101.7 | 3.5 | 0.34 | 0.4 | 0.02 | 0.32 | 0.12 | 40 | 216 |
| 50 | 13.75 | 13.74 | 33.445 | 25.039 | 292.5 | 0.152 | 5.84 | 99.1 | 3.8 | 0.39 | 0.9 | 0.06 | 0.36 | 0.15 | 50 | 215 |
| 60 | 12.54 | 12.53 | 33.374 | 25.225 | 274.9 | 0.180 | 5.64 | 93.3 | 5.6 | 0.60 | 3.8 | 0.17 | 0.32 | 0.23 | 60 | 214 |
| 70 | 11.22 | 11.21 | 33.320 | 25.430 | 255.5 | 0.206 | 5.41 | 87.0 | 8.0 | 0.82 | 7.7 | 0.04 | 0.25 | 0.22 | 70 | 213 |
| 75 ISL | 10.87 | 10.86 | 33.359 | 25.523 | 246.8 | 0.219 | 5.24 | 83.6 | 9.2 | 0.91 | 9.2 | 0.03 | 0.20 | 0.20 | 75 | |
| 85 | 10.52 | 10.51 | 33.478 | 25.677 | 232.3 | 0.243 | 4.85 | 76.9 | 11.8 | 1.07 | 12.0 | 0.02 | 0.11 | 0.14 | 85 | 212 |
| 100 | 10.31 | 10.30 | 33.607 | 25.814 | 219.6 | 0.277 | 4.21 | 66.5 | 16.5 | 1.34 | 16.4 | 0.01 | 0.07 | 0.10 | 100 | 211 |
| 120 | 9.77 | 9.76 | 33.788 | 26.047 | 197.8 | 0.319 | 3.47 | 54.2 | 23.1 | 1.67 | 21.7 | 0.01 | 0.01 | 0.04 | 121 | 210 |
| 125 ISL | 9.65 | 9.64 | 33.816 | 26.089 | 193.9 | 0.328 | 3.39 | 52.8 | 24.2 | 1.72 | 22.4 | 0.01 | 0.01 | 0.03 | 126 | |
| 139 | 9.35 | 9.33 | 33.875 | 26.184 | 185.1 | 0.355 | 3.24 | 50.2 | 26.6 | 1.81 | 23.9 | 0.01 | 0.01 | 0.02 | 140 | 209 |
| 150 ISL | 9.16 | 9.14 | 33.921 | 26.251 | 178.9 | 0.375 | 3.10 | 47.8 | 28.5 | 1.87 | 24.9 | 0.01 | 0.01 | 0.02 | 151 | |
| 170 | 8.85 | 8.83 | 33.991 | 26.355 | 169.4 | 0.410 | 2.84 | 43.5 | 32.2 | 1.99 | 26.6 | 0.01 | 0.00 | 0.04 | 171 | 208 |
| 199 | 8.31 | 8.29 | 34.062 | 26.494 | 156.5 | 0.457 | 2.44 | 36.9 | 38.8 | 2.20 | 29.1 | 0.01 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 8.30 | 8.28 | 34.063 | 26.496 | 156.3 | 0.459 | 2.43 | 36.8 | 38.9 | 2.20 | 29.2 | 0.01 | | | 201 | |
| 229 | 8.08 | 8.06 | 34.081 | 26.544 | 152.3 | 0.503 | 2.20 | 33.1 | 42.0 | 2.30 | 30.3 | 0.01 | | | 230 | 206 |
| 250 ISL | 7.87 | 7.84 | 34.093 | 26.585 | 148.7 | 0.535 | 2.05 | 30.7 | 44.7 | 2.37 | 31.3 | 0.00 | | | 251 | |
| 268 | 7.68 | 7.65 | 34.105 | 26.622 | 145.4 | 0.561 | 1.91 | 28.5 | 47.1 | 2.44 | 32.1 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.41 | 7.38 | 34.131 | 26.681 | 140.1 | 0.607 | 1.61 | 23.9 | 51.5 | 2.57 | 33.6 | 0.00 | | | 302 | |
| 317 | 7.28 | 7.25 | 34.146 | 26.712 | 137.4 | 0.631 | 1.44 | 21.3 | 53.9 | 2.64 | 34.4 | 0.00 | | | 319 | 204 |
| 378 | 6.79 | 6.75 | 34.205 | 26.826 | 127.3 | 0.711 | 0.83 | 12.1 | 63.9 | 2.89 | 37.2 | 0.00 | | | 380 | 203 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 45

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 32 20.8 N | 118 33.1 W | 06/04/01 | 1447 | UTC | 1336 m | 210 | 11 kn | 250 03 06 | 1 | 1015.1 mb | 13.9 C | 13.0 C | 14m | 6/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 14.34 | 14.34 | 33.535 | 24.985 | 296.2 | 0.000 | 5.95 | 102.3 | 3.2 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 0 | |
| 2 | 14.34 | 14.34 | 33.535 | 24.985 | 296.3 | 0.006 | 5.95 | 102.3 | 3.2 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 2 | 220 |
| 10 ISL | 14.34 | 14.34 | 33.536 | 24.986 | 296.4 | 0.030 | 5.93 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 10 | |
| 11 | 14.34 | 14.34 | 33.536 | 24.986 | 296.4 | 0.033 | 5.93 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 11 | 219 |
| 20 ISL | 14.33 | 14.33 | 33.535 | 24.987 | 296.6 | 0.059 | 5.93 | 101.9 | 3.1 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 20 | |
| 21 | 14.33 | 14.33 | 33.535 | 24.987 | 296.6 | 0.062 | 5.93 | 101.9 | 3.1 | 0.32 | 0.2 | 0.00 | 0.57 | 0.14 | 21 | 218 |
| 30 ISL | 14.32 | 14.32 | 33.534 | 24.989 | 296.7 | 0.089 | 5.94 | 102.1 | 3.1 | 0.33 | 0.2 | 0.00 | 0.59 | 0.11 | 30 | |
| 31 | 14.32 | 14.32 | 33.534 | 24.989 | 296.7 | 0.092 | 5.94 | 102.1 | 3.1 | 0.33 | 0.2 | 0.00 | 0.59 | 0.11 | 31 | 217 |
| 41 | 12.93 | 12.92 | 33.503 | 25.249 | 272.2 | 0.120 | 5.56 | 92.8 | 6.3 | 0.59 | 4.0 | 0.16 | 0.99 | 0.38 | 41 | 216 |
| 50 | 11.67 | 11.66 | 33.531 | 25.512 | 247.3 | 0.144 | 4.66 | 75.8 | 10.9 | 1.02 | 10.9 | 0.10 | 0.56 | 0.30 | 50 | 215 |
| 59 | 10.76 | 10.75 | 33.621 | 25.746 | 225.2 | 0.165 | 3.96 | 63.2 | 16.3 | 1.37 | 16.5 | 0.03 | 0.18 | 0.21 | 59 | 214 |
| 69 | 10.38 | 10.37 | 33.689 | 25.865 | 214.0 | 0.187 | 3.70 | 58.5 | 19.4 | 1.51 | 18.8 | 0.01 | 0.10 | 0.15 | 69 | 213 |
| 75 ISL | 10.24 | 10.23 | 33.744 | 25.932 | 207.8 | 0.200 | 3.47 | 54.8 | 21.3 | 1.61 | 20.2 | 0.01 | 0.06 | 0.12 | 75 | |
| 86 | 10.05 | 10.04 | 33.841 | 26.041 | 197.7 | 0.222 | 3.07 | 48.3 | 24.3 | 1.77 | 22.3 | 0.01 | 0.01 | 0.08 | 86 | 212 |
| 100 ISL | 9.77 | 9.76 | 33.911 | 26.142 | 188.3 | 0.249 | 2.85 | 44.6 | 26.9 | 1.88 | 24.0 | 0.01 | 0.01 | 0.05 | 101 | |
| 101 | 9.75 | 9.74 | 33.914 | 26.148 | 187.8 | 0.251 | 2.84 | 44.4 | 27.1 | 1.89 | 24.1 | 0.01 | 0.01 | 0.05 | 102 | 211 |
| 118 | 9.44 | 9.43 | 33.957 | 26.233 | 180.0 | 0.282 | 2.75 | 42.7 | 29.3 | 1.95 | 25.3 | 0.01 | 0.01 | 0.04 | 119 | 210 |
| 125 ISL | 9.37 | 9.36 | 33.982 | 26.264 | 177.2 | 0.295 | 2.67 | 41.4 | 30.2 | 1.98 | 25.8 | 0.01 | 0.01 | 0.04 | 126 | |
| 140 | 9.23 | 9.21 | 34.031 | 26.325 | 171.7 | 0.321 | 2.49 | 38.5 | 32.2 | 2.06 | 26.8 | 0.00 | 0.01 | 0.04 | 141 | 209 |
| 150 ISL | 9.03 | 9.01 | 34.047 | 26.370 | 167.6 | 0.338 | 2.43 | 37.4 | 33.7 | 2.10 | 27.4 | 0.00 | 0.01 | 0.04 | 151 | |
| 169 | 8.65 | 8.63 | 34.061 | 26.441 | 161.1 | 0.369 | 2.38 | 36.3 | 36.4 | 2.16 | 28.4 | 0.00 | 0.00 | 0.05 | 170 | 208 |
| 199 | 8.33 | 8.31 | 34.066 | 26.494 | 156.5 | 0.417 | 2.31 | 35.0 | 38.9 | 2.22 | 29.3 | 0.00 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 8.33 | 8.31 | 34.068 | 26.496 | 156.4 | 0.418 | 2.30 | 34.8 | 39.0 | 2.22 | 29.3 | 0.00 | | | 201 | |
| 229 | 8.21 | 8.19 | 34.112 | 26.549 | 151.9 | 0.463 | 2.00 | 30.2 | 41.9 | 2.34 | 30.5 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.97 | 7.94 | 34.119 | 26.590 | 148.2 | 0.494 | 1.89 | 28.4 | 44.6 | 2.41 | 31.4 | 0.00 | | | 251 | |
| 269 | 7.70 | 7.67 | 34.120 | 26.631 | 144.6 | 0.522 | 1.79 | 26.7 | 47.5 | 2.47 | 32.3 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.31 | 7.28 | 34.139 | 26.702 | 138.1 | 0.566 | 1.49 | 22.1 | 53.2 | 2.61 | 34.1 | 0.00 | | | 302 | |
| 322 | 7.07 | 7.04 | 34.157 | 26.750 | 135.8 | 0.596 | 1.26 | 18.6 | 57.3 | 2.71 | 35.4 | 0.00 | | | 324 | 204 |
| 379 | 6.67 | 6.64 | 34.208 | 26.844 | 125.4 | 0.670 | 0.83 | 12.1 | 65.2 | 2.89 | 37.4 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.54 | 6.50 | 34.226 | 26.876 | 122.6 | 0.696 | 0.71 | 10.3 | 68.1 | 2.95 | 38.1 | 0.00 | | | 403 | |
| 436 | 6.34 | 6.30 | 34.255 | 26.926 | 118.3 | 0.739 | 0.55 | 8.0 | 72.8 | 3.04 | 39.1 | 0.00 | | | 439 | 202 |
| 500 ISL | 5.97 | 5.93 | 34.301 | 27.010 | 110.9 | 0.813 | 0.36 | 5.2 | 80.0 | 3.15 | 40.5 | 0.00 | | | 503 | |
| 512 | 5.90 | 5.86 | 34.310 | 27.026 | 109.5 | 0.826 | 0.33 | 4.7 | 81.4 | 3.17 | 40.8 | 0.00 | | | 516 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 50

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 32 10.7 N | 118 53.5 W | 06/04/01 | 1918 | UTC | 1462 m | 270 | 14 kn | 270 03 06 | 5 | 1016.6 mb | 14.4 C | 12.0 C | 13m | 8/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 14.21 | 14.21 | 33.538 | 25.014 | 293.4 | 0.000 | 6.02 | 103.2 | 3.8 | 0.32 | 0.2 | 0.00 | 0.52 | 0.15 | 0 | |
| 1 A | 14.21 | 14.21 | 33.538 | 25.014 | 293.4 | 0.003 | 6.02 | 103.2 | 3.8 | 0.32 | 0.2 | 0.00 | 0.52 | 0.15 | 1 | 222 |
| 8 A | 14.19 | 14.19 | 33.538 | 25.019 | 293.2 | 0.023 | 6.03 | 103.3 | 3.8 | 0.32 | 0.2 | 0.00 | 0.53 | 0.15 | 8 | 221 |
| 10 ISL | 14.18 | 14.18 | 33.539 | 25.022 | 293.0 | 0.029 | 6.03 | 103.3 | 3.8 | 0.32 | 0.2 | 0.00 | 0.53 | 0.15 | 10 | |
| 16 A | 14.14 | 14.14 | 33.540 | 25.031 | 292.3 | 0.047 | 6.03 | 103.2 | 3.8 | 0.31 | 0.2 | 0.00 | 0.57 | 0.17 | 16 | 220 |
| 20 ISL | 14.07 | 14.07 | 33.537 | 25.043 | 291.2 | 0.059 | 6.04 | 103.3 | 4.0 | 0.32 | 0.2 | 0.00 | 0.64 | 0.19 | 20 | |
| 26 A | 13.90 | 13.90 | 33.529 | 25.073 | 288.6 | 0.076 | 6.05 | 103.1 | 4.3 | 0.34 | 0.4 | 0.01 | 0.73 | 0.23 | 26 | 219 |
| 30 ISL | 13.72 | 13.72 | 33.521 | 25.104 | 285.8 | 0.087 | 6.06 | 102.8 | 4.6 | 0.36 | 0.6 | 0.02 | 0.71 | 0.25 | 30 | |
| 34 A | 13.55 | 13.55 | 33.514 | 25.133 | 283.1 | 0.099 | 6.06 | 102.5 | 4.9 | 0.38 | 0.8 | 0.04 | 0.67 | 0.26 | 34 | 218 |
| 41 | 13.42 | 13.41 | 33.508 | 25.155 | 281.2 | 0.119 | 6.00 | 101.2 | 5.1 | 0.40 | 1.2 | 0.06 | 0.65 | 0.27 | 41 | 217 |
| 48 A | 12.10 | 12.09 | 33.459 | 25.375 | 260.3 | 0.138 | 5.34 | 87.6 | 7.5 | 0.74 | 6.4 | 0.23 | 0.35 | 0.20 | 48 | 216 |
| 50 ISL | 12.05 | 12.04 | 33.458 | 25.384 | 259.5 | 0.143 | 5.31 | 87.0 | 7.7 | 0.76 | 6.6 | 0.23 | 0.35 | 0.20 | 50 | |
| 54 | 11.94 | 11.93 | 33.456 | 25.403 | 257.8 | 0.153 | 5.25 | 85.8 | 8.0 | 0.79 | 7.1 | 0.23 | 0.36 | 0.21 | 54 | 215 |
| 60 | 11.77 | 11.76 | 33.466 | 25.443 | 254.1 | 0.168 | 5.16 | 84.0 | 8.6 | 0.84 | 8.0 | 0.21 | 0.28 | 0.18 | 60 | 214 |
| 70 | 11.19 | 11.18 | 33.537 | 25.604 | 239.0 | 0.193 | 4.65 | 74.8 | 12.4 | 1.08 | 11.9 | 0.09 | 0.20 | 0.09 | 70 | 213 |
| 75 ISL | 10.94 | 10.93 | 33.564 | 25.670 | 232.8 | 0.205 | 4.45 | 71.2 | 13.9 | 1.18 | 13.5 | 0.06 | 0.15 | 0.10 | 75 | |
| 85 | 10.53 | 10.52 | 33.612 | 25.780 | 222.6 | 0.228 | 4.13 | 65.5 | 16.3 | 1.33 | 16.1 | 0.03 | 0.08 | 0.11 | 85 | 212 |
| 99 | 10.22 | 10.21 | 33.682 | 25.888 | 212.5 | 0.258 | 3.78 | 59.6 | 19.2 | 1.49 | 18.5 | 0.02 | 0.06 | 0.09 | 99 | 211 |
| 100 ISL | 10.20 | 10.19 | 33.687 | 25.895 | 211.9 | 0.260 | 3.75 | 59.1 | 19.4 | 1.50 | 18.7 | 0.02 | 0.06 | 0.09 | 100 | |
| 120 | 9.89 | 9.88 | 33.798 | 26.035 | 199.0 | 0.301 | 3.25 | 50.9 | 23.8 | 1.72 | 21.8 | 0.01 | 0.02 | 0.07 | 121 | 210 |
| 125 ISL | 9.79 | 9.78 | 33.826 | 26.073 | 195.4 | 0.311 | 3.14 | 49.1 | 24.9 | 1.77 | 22.6 | 0.01 | 0.02 | 0.07 | 126 | |
| 140 | 9.48 | 9.46 | 33.910 | 26.190 | 184.6 | 0.340 | 2.84 | 44.1 | 28.3 | 1.91 | 24.7 | 0.01 | 0.01 | 0.06 | 141 | 209 |
| 150 ISL | 9.33 | 9.31 | 33.971 | 26.262 | 177.9 | 0.358 | 2.64 | 40.9 | 30.4 | 1.99 | 25.8 | 0.01 | 0.01 | 0.06 | 151 | |
| 169 | 9.08 | 9.06 | 34.067 | 26.378 | 167.2 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 55

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|-----------|--------|--------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 1.0 N | 119 13.7 W | 06/04/01 | 2321 | UTC | 1575 m | 310 | 17 kn | 280 | 03 | 05 | 1 | 1017.1 mb | 13.5 C | 10.8 C | 21m |
| 0 | ISL | 14.41 | 14.41 | 33.511 | 24.951 | 299.4 | 0.000 | 5.92 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.26 | 0.06 | 0 |
| 2 | | 14.41 | 14.41 | 33.511 | 24.951 | 299.5 | 0.006 | 5.92 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.26 | 0.06 | 2 220 |
| 10 | ISL | 14.40 | 14.40 | 33.510 | 24.953 | 299.5 | 0.030 | 5.94 | 102.2 | 3.2 | 0.32 | 0.2 | 0.00 | 0.27 | 0.05 | 10 |
| 16 | | 14.40 | 14.40 | 33.510 | 24.953 | 299.7 | 0.048 | 5.95 | 102.4 | 3.2 | 0.32 | 0.2 | 0.00 | 0.28 | 0.05 | 16 219 |
| 20 | ISL | 14.38 | 14.38 | 33.510 | 24.958 | 299.4 | 0.060 | 5.95 | 102.4 | 3.2 | 0.32 | 0.2 | 0.00 | 0.28 | 0.06 | 20 |
| 30 | | 14.31 | 14.31 | 33.509 | 24.972 | 298.3 | 0.090 | 5.94 | 102.0 | 3.2 | 0.32 | 0.2 | 0.00 | 0.29 | 0.07 | 30 218 |
| 44 | | 14.28 | 14.27 | 33.507 | 24.977 | 298.2 | 0.132 | 5.93 | 101.8 | 3.2 | 0.32 | 0.2 | 0.00 | 0.36 | 0.07 | 44 217 |
| 50 | ISL | 14.26 | 14.25 | 33.505 | 24.980 | 298.2 | 0.149 | 5.92 | 101.6 | 3.2 | 0.33 | 0.3 | 0.00 | 0.37 | 0.11 | 50 |
| 54 | | 14.24 | 14.23 | 33.503 | 24.983 | 298.0 | 0.161 | 5.91 | 101.4 | 3.2 | 0.33 | 0.3 | 0.00 | 0.38 | 0.13 | 54 216 |
| 64 | | 13.60 | 13.59 | 33.472 | 25.091 | 287.9 | 0.191 | 5.75 | 97.3 | 4.1 | 0.43 | 1.7 | 0.10 | 0.44 | 0.13 | 64 215 |
| 74 | | 12.94 | 12.93 | 33.447 | 25.204 | 277.3 | 0.219 | 5.59 | 93.3 | 5.1 | 0.55 | 3.3 | 0.18 | 0.41 | 0.17 | 74 214 |
| 75 | ISL | 12.87 | 12.86 | 33.445 | 25.217 | 276.2 | 0.222 | 5.57 | 92.8 | 5.2 | 0.56 | 3.5 | 0.18 | 0.40 | 0.17 | 75 |
| 84 | | 12.11 | 12.10 | 33.444 | 25.363 | 262.4 | 0.246 | 5.30 | 86.9 | 6.8 | 0.72 | 6.2 | 0.16 | 0.29 | 0.15 | 84 213 |
| 95 | | 10.76 | 10.75 | 33.487 | 25.642 | 235.9 | 0.273 | 4.81 | 76.6 | 11.3 | 1.04 | 11.8 | 0.03 | 0.16 | 0.15 | 95 212 |
| 100 | ISL | 10.47 | 10.46 | 33.519 | 25.718 | 228.7 | 0.285 | 4.62 | 73.2 | 13.0 | 1.15 | 13.5 | 0.03 | 0.13 | 0.13 | 100 |
| 109 | | 10.20 | 10.19 | 33.582 | 25.813 | 219.8 | 0.305 | 4.30 | 67.7 | 15.7 | 1.30 | 16.0 | 0.02 | 0.09 | 0.09 | 110 211 |
| 125 | | 9.87 | 9.86 | 33.704 | 25.965 | 205.7 | 0.339 | 3.81 | 59.6 | 20.0 | 1.52 | 19.5 | 0.01 | 0.04 | 0.06 | 126 210 |
| 145 | | 9.42 | 9.40 | 33.838 | 26.144 | 189.1 | 0.379 | 3.35 | 51.9 | 25.1 | 1.74 | 23.1 | 0.01 | 0.01 | 0.04 | 146 209 |
| 150 | ISL | 9.30 | 9.28 | 33.870 | 26.188 | 184.9 | 0.388 | 3.23 | 50.0 | 26.6 | 1.80 | 23.9 | 0.01 | 0.01 | 0.04 | 151 |
| 169 | | 8.90 | 8.88 | 33.975 | 26.334 | 171.3 | 0.422 | 2.82 | 43.3 | 31.8 | 1.98 | 26.5 | 0.00 | 0.00 | 0.04 | 170 208 |
| 199 | | 8.54 | 8.52 | 34.048 | 26.448 | 161.0 | 0.472 | 2.43 | 37.0 | 36.5 | 2.14 | 28.6 | 0.00 | 0.00 | 0.03 | 200 207 |
| 200 | ISL | 8.53 | 8.51 | 34.050 | 26.451 | 160.7 | 0.473 | 2.42 | 36.8 | 36.7 | 2.15 | 28.7 | 0.00 | | | 201 |
| 229 | | 8.25 | 8.23 | 34.109 | 26.541 | 152.7 | 0.519 | 2.02 | 30.6 | 41.5 | 2.33 | 30.4 | 0.00 | | | 230 206 |
| 250 | ISL | 8.01 | 7.98 | 34.132 | 26.595 | 147.8 | 0.550 | 1.80 | 27.1 | 44.9 | 2.43 | 31.6 | 0.00 | | | 251 |
| 269 | | 7.80 | 7.77 | 34.147 | 26.638 | 144.0 | 0.578 | 1.62 | 24.3 | 47.7 | 2.51 | 32.5 | 0.00 | | | 271 205 |
| 300 | ISL | 7.61 | 7.58 | 34.180 | 26.691 | 139.3 | 0.622 | 1.32 | 19.7 | 51.6 | 2.63 | 33.7 | 0.00 | | | 302 |
| 318 | | 7.52 | 7.49 | 34.197 | 26.718 | 137.1 | 0.647 | 1.16 | 17.3 | 53.8 | 2.70 | 34.4 | 0.00 | | | 320 204 |
| 378 | | 6.97 | 6.93 | 34.233 | 26.824 | 127.6 | 0.726 | 0.77 | 11.3 | 62.5 | 2.89 | 36.8 | 0.00 | | | 380 203 |
| 400 | ISL | 6.82 | 6.78 | 34.251 | 26.859 | 124.6 | 0.754 | 0.65 | 9.5 | 65.6 | 2.95 | 37.5 | 0.00 | | | 403 |
| 438 | | 6.59 | 6.55 | 34.282 | 26.914 | 119.7 | 0.800 | 0.49 | 7.1 | 70.7 | 3.04 | 38.5 | 0.00 | | | 441 202 |
| 500 | ISL | 6.16 | 6.12 | 34.310 | 26.993 | 112.7 | 0.872 | 0.34 | 4.9 | 77.9 | 3.14 | 39.9 | 0.00 | | | 503 |
| 515 | | 6.06 | 6.01 | 34.317 | 27.011 | 111.1 | 0.889 | 0.30 | 4.3 | 79.7 | 3.17 | 40.3 | 0.00 | | | 519 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|--------|--------|------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 31 | 51.3 N | 119 34.1 W | 07/04/01 | 0345 | UTC | 2011 m | 320 | 15 kn | | | | | | | | |
| 0 | ISL | 14.26 | 14.26 | 33.353 | 24.861 | 308.0 | 0.000 | 5.96 | 102.2 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 0 |
| 3 | | 14.26 | 14.26 | 33.353 | 24.861 | 308.1 | 0.009 | 5.96 | 102.2 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 3 221 |
| 10 | ISL | 14.26 | 14.26 | 33.352 | 24.860 | 308.3 | 0.031 | 5.97 | 102.3 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 10 |
| 14 | | 14.26 | 14.26 | 33.352 | 24.861 | 308.4 | 0.043 | 5.97 | 102.3 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 14 220 |
| 20 | ISL | 14.26 | 14.26 | 33.352 | 24.861 | 308.6 | 0.062 | 5.97 | 102.3 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 20 |
| 30 | | 14.26 | 14.26 | 33.352 | 24.861 | 308.9 | 0.093 | 5.97 | 102.3 | 3.6 | 0.33 | 0.2 | 0.00 | 0.17 | 0.04 | 30 219 |
| 45 | | 14.18 | 14.18 | 33.334 | 24.862 | 309.2 | 0.139 | 5.98 | 102.4 | 3.6 | 0.33 | 0.2 | 0.00 | 0.20 | 0.05 | 45 218 |
| 50 | ISL | 13.65 | 13.64 | 33.275 | 24.928 | 303.0 | 0.154 | 5.99 | 101.4 | 3.9 | 0.37 | 0.5 | 0.04 | 0.30 | 0.09 | 50 |
| 56 | | 13.03 | 13.02 | 33.229 | 25.017 | 294.6 | 0.172 | 6.01 | 100.4 | 4.2 | 0.42 | 0.9 | 0.10 | 0.42 | 0.14 | 56 216 |
| 66 | | 12.96 | 12.95 | 33.331 | 25.110 | 286.0 | 0.201 | 5.90 | 98.4 | 4.4 | 0.46 | 1.4 | 0.15 | 0.46 | 0.16 | 66 215 |
| 75 | ISL | 12.45 | 12.44 | 33.377 | 25.246 | 273.3 | 0.226 | 5.70 | 94.1 | 5.4 | 0.57 | 3.4 | 0.25 | 0.29 | 0.13 | 75 |
| 76 | | 12.37 | 12.36 | 33.379 | 25.262 | 271.7 | 0.229 | 5.67 | 93.5 | 5.5 | 0.59 | 3.7 | 0.26 | 0.27 | 0.13 | 76 214 |
| 86 | | 11.36 | 11.35 | 33.348 | 25.427 | 256.2 | 0.255 | 5.41 | 87.3 | 7.2 | 0.76 | 6.8 | 0.05 | 0.16 | 0.11 | 86 213 |
| 96 | | 10.84 | 10.83 | 33.415 | 25.572 | 242.5 | 0.280 | 5.22 | 83.3 | 8.7 | 0.87 | 8.9 | 0.03 | 0.11 | 0.09 | 96 212 |
| 100 | ISL | 10.68 | 10.67 | 33.443 | 25.622 | 237.9 | 0.290 | 5.14 | 81.7 | 9.5 | 0.92 | 9.8 | 0.03 | 0.10 | 0.08 | 100 |
| 112 | | 10.34 | 10.33 | 33.514 | 25.737 | 227.2 | 0.318 | 4.91 | 77.5 | 11.5 | 1.04 | 11.9 | 0.02 | 0.08 | 0.07 | 113 211 |
| 125 | | 10.24 | 10.23 | 33.545 | 25.778 | 223.5 | 0.347 | 4.77 | 75.2 | 12.6 | 1.11 | 13.0 | 0.02 | 0.05 | 0.06 | 126 210 |
| 143 | | 9.69 | 9.67 | 33.634 | 25.940 | 208.4 | 0.386 | 4.05 | 63.1 | 19.0 | 1.48 | 18.7 | 0.01 | 0.02 | 0.05 | 144 209 |
| 150 | ISL | 9.51 | 9.49 | 33.705 | 26.025 | 200.4 | 0.400 | 3.83 | 59.4 | 21.3 | 1.58 | 20.4 | 0.01 | 0.01 | 0.04 | 151 |
| 171 | | 9.07 | 9.05 | 33.916 | 26.261 | 178.3 | 0.440 | 3.27 | 50.3 | 27.7 | 1.82 | 24.4 | 0.01 | 0.00 | 0.03 | 172 208 |
| 199 | | 8.59 | 8.57 | 34.022 | 26.420 | 163.7 | 0.488 | 2.70 | 41.1 | 34.3 | 2.07 | 27.6 | 0.00 | 0.00 | 0.02 | 200 207 |
| 200 | ISL | 8.57 | 8.55 | 34.025 | 26.425 | 163.2 | 0.490 | 2.68 | 40.8 | 34.5 | 2.08 | 27.7 | 0.00 | | | 201 |
| 228 | | 8.15 | 8.13 | 34.082 | 26.534 | 153.2 | 0.534 | 2.18 | 32.9 | 40.6 | 2.29 | 30.2 | 0.00 | | | 229 206 |
| 250 | ISL | 7.86 | 7.84 | 34.091 | 26.584 | 148.7 | 0.567 | 2.04 | 30.6 | 43.7 | 2.37 | 31.3 | 0.00 | | | 251 |
| 269 | | 7.65 | 7.62 | 34.093 | 26.617 | 145.9 | 0.595 | 1.96 | 29.2 | 46.0 | 2.42 | 32.0 | 0.00 | | | 271 205 |
| 300 | ISL | 7.45 | 7.42 | 34.127 | 26.673 | 141.0 | 0.640 | 1.6 | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|-------|--------|--------|------|------|
| 31 31.0 N | 120 14.8 W | 07/04/01 | 1205 | UTC | 3925 m | 340 | 24 kn | | | 1020.8 mb | 12.5 C | 9.0 C | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.25 | 14.25 | 33.419 | 24.914 | 303.0 | 0.000 | 5.97 | 102.4 | 3.4 | 0.33 | 0.2 | 0.00 | 0.24 | 0.07 | 0 | |
| 3 | 14.25 | 14.25 | 33.419 | 24.914 | 303.0 | 0.009 | 5.97 | 102.4 | 3.4 | 0.33 | 0.2 | 0.00 | 0.24 | 0.07 | 3 | 220 |
| 10 ISL | 14.25 | 14.25 | 33.420 | 24.915 | 303.1 | 0.030 | 5.96 | 102.2 | 3.4 | 0.33 | 0.2 | 0.00 | 0.23 | 0.07 | 10 | |
| 16 | 14.26 | 14.26 | 33.420 | 24.913 | 303.5 | 0.049 | 5.94 | 101.9 | 3.4 | 0.32 | 0.2 | 0.00 | 0.23 | 0.07 | 16 | 219 |
| 20 ISL | 14.26 | 14.26 | 33.420 | 24.913 | 303.6 | 0.061 | 5.94 | 101.9 | 3.4 | 0.32 | 0.2 | 0.00 | 0.23 | 0.07 | 20 | |
| 30 ISL | 14.26 | 14.26 | 33.419 | 24.913 | 303.9 | 0.091 | 5.94 | 101.9 | 3.3 | 0.32 | 0.2 | 0.00 | 0.24 | 0.07 | 30 | |
| 31 | 14.26 | 14.26 | 33.419 | 24.913 | 304.0 | 0.094 | 5.94 | 101.9 | 3.3 | 0.32 | 0.2 | 0.00 | 0.24 | 0.07 | 31 | 218 |
| 45 | 14.22 | 14.21 | 33.426 | 24.927 | 303.0 | 0.137 | 5.97 | 102.3 | 3.3 | 0.32 | 0.2 | 0.00 | 0.27 | 0.09 | 45 | 217 |
| 50 ISL | 13.99 | 13.98 | 33.462 | 25.003 | 295.9 | 0.152 | 5.92 | 101.0 | 3.3 | 0.35 | 0.4 | 0.03 | 0.59 | 0.23 | 50 | |
| 56 | 13.56 | 13.55 | 33.495 | 25.117 | 285.2 | 0.169 | 5.86 | 99.1 | 3.3 | 0.39 | 0.7 | 0.10 | 0.87 | 0.37 | 56 | 216 |
| 64 | 12.75 | 12.74 | 33.465 | 25.255 | 272.2 | 0.191 | 5.54 | 92.1 | 5.1 | 0.58 | 3.7 | 0.25 | 0.49 | 0.32 | 64 | 215 |
| 75 ISL | 11.86 | 11.85 | 33.511 | 25.461 | 252.7 | 0.220 | 4.90 | 80.0 | 9.1 | 0.93 | 9.4 | 0.05 | 0.18 | 0.15 | 75 | |
| 76 | 11.78 | 11.77 | 33.518 | 25.482 | 250.8 | 0.223 | 4.84 | 78.9 | 9.5 | 0.96 | 9.9 | 0.02 | 0.16 | 0.14 | 76 | 214 |
| 86 | 10.94 | 10.93 | 33.576 | 25.680 | 232.1 | 0.247 | 4.26 | 68.2 | 14.2 | 1.26 | 14.8 | 0.01 | 0.08 | 0.10 | 86 | 213 |
| 91 | 10.36 | 10.35 | 33.607 | 25.805 | 220.2 | 0.258 | 4.05 | 64.0 | 16.7 | 1.40 | 17.1 | 0.02 | 0.04 | 0.07 | 91 | 212 |
| 100 ISL | 10.11 | 10.10 | 33.705 | 25.925 | 209.1 | 0.277 | 3.82 | 60.1 | 19.3 | 1.52 | 19.2 | 0.02 | 0.03 | 0.05 | 100 | |
| 108 | 9.89 | 9.88 | 33.729 | 25.980 | 203.9 | 0.294 | 3.73 | 58.4 | 20.7 | 1.56 | 20.0 | 0.02 | 0.02 | 0.04 | 109 | 211 |
| 125 | 9.30 | 9.29 | 33.792 | 26.127 | 190.2 | 0.327 | 3.74 | 57.8 | 23.8 | 1.67 | 22.1 | 0.02 | 0.01 | 0.03 | 126 | 210 |
| 146 | 8.90 | 8.88 | 33.901 | 26.276 | 176.4 | 0.366 | 3.35 | 51.4 | 28.4 | 1.83 | 24.8 | 0.01 | 0.00 | 0.03 | 147 | 209 |
| 150 ISL | 8.85 | 8.83 | 33.913 | 26.293 | 174.8 | 0.373 | 3.32 | 50.8 | 28.9 | 1.84 | 25.0 | 0.01 | 0.00 | 0.03 | 151 | |
| 171 | 8.59 | 8.57 | 33.955 | 26.367 | 168.1 | 0.409 | 3.22 | 49.0 | 31.5 | 1.90 | 26.1 | 0.01 | 0.00 | 0.03 | 172 | 208 |
| 197 | 8.10 | 8.08 | 34.007 | 26.482 | 157.5 | 0.451 | 2.90 | 43.7 | 37.1 | 2.07 | 28.5 | 0.01 | 0.00 | 0.03 | 198 | 207 |
| 200 ISL | 8.06 | 8.04 | 34.011 | 26.491 | 156.7 | 0.456 | 2.86 | 43.0 | 37.6 | 2.09 | 28.7 | 0.01 | | | 201 | |
| 227 | 7.75 | 7.73 | 34.032 | 26.554 | 151.1 | 0.498 | 2.47 | 36.9 | 42.3 | 2.24 | 30.7 | 0.01 | | | 228 | 206 |
| 250 ISL | 7.40 | 7.38 | 34.042 | 26.612 | 145.8 | 0.532 | 2.22 | 32.9 | 46.6 | 2.36 | 32.2 | 0.00 | | | 251 | |
| 274 | 7.05 | 7.02 | 34.050 | 26.667 | 140.8 | 0.566 | 2.01 | 29.6 | 50.9 | 2.48 | 33.6 | 0.00 | | | 276 | 205 |
| 300 ISL | 6.78 | 6.75 | 34.056 | 26.709 | 137.1 | 0.602 | 1.79 | 26.2 | 54.8 | 2.57 | 34.8 | 0.01 | | | 302 | |
| 315 | 6.68 | 6.65 | 34.065 | 26.730 | 135.3 | 0.623 | 1.66 | 24.2 | 56.8 | 2.62 | 35.4 | 0.01 | | | 317 | 204 |
| 380 | 6.77 | 6.73 | 34.215 | 26.837 | 126.3 | 0.708 | 0.78 | 11.4 | 64.4 | 2.92 | 37.5 | 0.01 | | | 382 | 203 |
| 400 ISL | 6.58 | 6.54 | 34.228 | 26.873 | 123.0 | 0.733 | 0.67 | 9.8 | 67.8 | 2.98 | 38.3 | 0.01 | | | 403 | |
| 433 | 6.23 | 6.19 | 34.241 | 26.929 | 117.9 | 0.772 | 0.56 | 8.1 | 73.5 | 3.07 | 39.6 | 0.00 | | | 436 | 202 |
| 500 ISL | 5.90 | 5.86 | 34.310 | 27.026 | 109.3 | 0.848 | 0.31 | 4.4 | 81.2 | 3.18 | 40.9 | 0.00 | | | 503 | |
| 509 | 5.86 | 5.82 | 34.319 | 27.038 | 108.3 | 0.858 | 0.28 | 4.0 | 82.2 | 3.20 | 41.1 | 0.00 | | | 512 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 31 10.4 N | 120 55.1 W | 07/04/01 | 1845 | UTC | 3828 m | 330 | 11 kn | 300 07 08 | 1 | 1023.8 mb | 13.3 C | 10.9 C | 26m | 3/8 | CU | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.48 | 14.48 | 33.440 | 24.882 | 306.0 | 0.000 | 5.91 | 101.8 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 0 | |
| 2 A | 14.48 | 14.48 | 33.440 | 24.882 | 306.1 | 0.006 | 5.91 | 101.8 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 2 | 223 |
| 10 ISL | 14.47 | 14.47 | 33.440 | 24.884 | 306.1 | 0.031 | 5.92 | 102.0 | 3.2 | 0.32 | 0.2 | 0.00 | 0.24 | 0.04 | 10 | |
| 15 A | 14.47 | 14.47 | 33.440 | 24.884 | 306.2 | 0.046 | 5.92 | 102.0 | 3.2 | 0.32 | 0.2 | 0.00 | 0.24 | 0.04 | 15 | 222 |
| 20 ISL | 14.45 | 14.45 | 33.440 | 24.889 | 306.0 | 0.061 | 5.91 | 101.8 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 20 | |
| 24 | 14.44 | 14.44 | 33.440 | 24.891 | 305.9 | 0.073 | 5.91 | 101.7 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 24 | 221 |
| 30 ISL | 14.43 | 14.43 | 33.439 | 24.892 | 305.9 | 0.092 | 5.92 | 101.9 | 3.1 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 30 | |
| 32 A | 14.43 | 14.43 | 33.439 | 24.893 | 305.9 | 0.098 | 5.92 | 101.9 | 3.1 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 32 | 220 |
| 43 | 14.42 | 14.41 | 33.441 | 24.896 | 305.9 | 0.132 | 5.92 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.25 | 0.05 | 43 | 219 |
| 50 ISL | 14.34 | 14.33 | 33.453 | 24.923 | 303.6 | 0.153 | 5.92 | 101.7 | 3.1 | 0.33 | 0.2 | 0.00 | 0.38 | 0.08 | 50 | |
| 51 A | 14.31 | 14.30 | 33.454 | 24.930 | 302.9 | 0.156 | 5.92 | 101.6 | 3.1 | 0.33 | 0.2 | 0.00 | 0.40 | 0.09 | 51 | 218 |
| 58 | 13.94 | 13.93 | 33.447 | 25.002 | 296.2 | 0.177 | 5.84 | 99.5 | 3.6 | 0.38 | 0.9 | 0.03 | 0.55 | 0.15 | 58 | 217 |
| 65 A | 13.74 | 13.73 | 33.444 | 25.041 | 292.7 | 0.198 | 5.80 | 98.4 | 3.8 | 0.41 | 1.3 | 0.04 | 0.55 | 0.15 | 65 | 216 |
| 74 | 12.81 | 12.80 | 33.444 | 25.228 | 275.1 | 0.223 | 5.53 | 92.0 | 5.6 | 0.60 | 4.0 | 0.11 | 0.56 | 0.26 | 74 | 215 |
| 75 ISL | 12.76 | 12.75 | 33.448 | 25.240 | 273.9 | 0.226 | 5.50 | 91.4 | 5.7 | 0.61 | 4.2 | 0.11 | 0.55 | 0.27 | 75 | |
| 83 | 12.32 | 12.31 | 33.476 | 25.347 | 263.9 | 0.247 | 5.27 | 86.8 | 7.0 | 0.73 | 6.4 | 0.11 | 0.50 | 0.31 | 83 | 214 |
| 91 A | 11.33 | 11.32 | 33.476 | 25.532 | 246.4 | 0.268 | 4.90 | 79.0 | 10.0 | 0.97 | 10.2 | 0.05 | 0.27 | 0.25 | 91 | 213 |
| 100 ISL | 10.76 | 10.75 | 33.480 | 25.637 | 236.5 | 0.289 | 4.70 | 74.9 | 11.9 | 1.11 | 12.4 | 0.04 | 0.21 | 0.22 | 100 | |
| 101 | 10.72 | 10.71 | 33.483 | 25.646 | 235.6 | 0.292 | 4.68 | 74.5 | 12.1 | 1.12 | 12.6 | 0.04 | 0.21 | 0.22 | 101 | 212 |
| 110 | 10.52 | 10.51 | 33.564 | 25.745 | 226.4 | 0.313 | 4.26 | 67.6 | 14.9 | 1.29 | 15.4 | 0.02 | 0.13 | 0.14 | 111 | 211 |
| 125 | 10.01 | 10.00 | 33.694 | 25.933 | 208.7 | 0.345 | 3.71 | 58.2 | 19.8 | 1.54 | 19.6 | 0.01 | 0.04 | 0.06 | 126 | 210 |
| 145 | 9.68 | 9.66 | 33.850 | 26.111 | 192.3 | 0.385 | 3.13 | 48.8 | 25.2 | 1.79 | 23.4 | 0.01 | 0.01 | 0.05 | 146 | 209 |
| 150 ISL | 9.58 | 9.56 | 33.878 | 26.149 | 188.7 | 0.395 | 3.05 | 47.5 | 26.2 | 1.83 | 24.0 | 0.01 | 0.01 | 0.05 | 151 | |
| 170 | 9.20 | 9.18 | 33.963 | 26.277 | 176.8 | 0.431 | 2.82 | 43.5 | 29.7 | 1.95 | 25.8 | 0 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 90

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 30 50.8 N | 121 35.4 W | 08/04/01 | 0054 | UTC | 4117 m | 330 | 13 kn | 310 08 09 | 1 | 1021.3 mb | 12.4 C | 10.1 C | 29m | 2/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 15.26 | 15.26 | 33.624 | 24.855 | 308.6 | 0.000 | 5.81 | 101.8 | 2.8 | 0.28 | 0.3 | 0.00 | 0.09 | 0.02 | 0 | |
| 3 | 15.26 | 15.26 | 33.624 | 24.855 | 308.6 | 0.009 | 5.81 | 101.8 | 2.8 | 0.28 | 0.3 | 0.00 | 0.09 | 0.02 | 3 | 220 |
| 10 ISL | 15.26 | 15.26 | 33.625 | 24.856 | 308.8 | 0.031 | 5.80 | 101.6 | 2.9 | 0.29 | 0.3 | 0.00 | 0.09 | 0.03 | 10 | |
| 15 | 15.26 | 15.26 | 33.626 | 24.857 | 308.8 | 0.046 | 5.80 | 101.6 | 2.9 | 0.29 | 0.3 | 0.00 | 0.09 | 0.03 | 15 | 219 |
| 20 ISL | 15.26 | 15.26 | 33.626 | 24.857 | 309.0 | 0.062 | 5.80 | 101.6 | 2.9 | 0.29 | 0.3 | 0.00 | 0.09 | 0.03 | 20 | |
| 30 ISL | 15.25 | 15.25 | 33.625 | 24.859 | 309.1 | 0.093 | 5.80 | 101.6 | 2.9 | 0.28 | 0.3 | 0.00 | 0.09 | 0.02 | 30 | |
| 31 | 15.25 | 15.25 | 33.625 | 24.859 | 309.1 | 0.096 | 5.80 | 101.6 | 2.9 | 0.28 | 0.3 | 0.00 | 0.09 | 0.02 | 31 | 218 |
| 45 | 15.23 | 15.22 | 33.625 | 24.864 | 309.1 | 0.139 | 5.80 | 101.6 | 2.9 | 0.28 | 0.2 | 0.00 | 0.09 | 0.02 | 45 | 217 |
| 50 ISL | 15.23 | 15.22 | 33.626 | 24.865 | 309.2 | 0.154 | 5.79 | 101.4 | 2.9 | 0.28 | 0.2 | 0.00 | 0.10 | 0.02 | 50 | |
| 62 | 15.23 | 15.22 | 33.627 | 24.866 | 309.4 | 0.192 | 5.78 | 101.2 | 2.9 | 0.28 | 0.2 | 0.00 | 0.11 | 0.02 | 62 | 216 |
| 75 | 15.24 | 15.23 | 33.630 | 24.867 | 309.8 | 0.232 | 5.80 | 101.6 | 2.8 | 0.28 | 0.2 | 0.00 | 0.11 | 0.03 | 75 | 215 |
| 85 | 15.25 | 15.24 | 33.636 | 24.870 | 309.8 | 0.263 | 5.79 | 101.4 | 2.7 | 0.28 | 0.2 | 0.00 | 0.13 | 0.03 | 85 | 214 |
| 94 | 15.28 | 15.27 | 33.696 | 24.909 | 306.3 | 0.291 | 5.74 | 100.6 | 2.7 | 0.28 | 0.2 | 0.00 | 0.23 | 0.10 | 94 | 213 |
| 100 ISL | 15.24 | 15.22 | 33.698 | 24.920 | 305.5 | 0.309 | 5.73 | 100.4 | 2.7 | 0.28 | 0.2 | 0.00 | 0.27 | 0.14 | 100 | |
| 105 | 15.21 | 15.19 | 33.699 | 24.927 | 304.9 | 0.324 | 5.73 | 100.3 | 2.7 | 0.28 | 0.2 | 0.00 | 0.29 | 0.18 | 105 | 212 |
| 114 | 14.16 | 14.14 | 33.636 | 25.104 | 288.2 | 0.351 | 5.64 | 96.6 | 3.6 | 0.38 | 1.1 | 0.07 | 0.35 | 0.27 | 115 | 211 |
| 123 | 13.01 | 12.99 | 33.701 | 25.389 | 261.2 | 0.376 | 5.34 | 89.4 | 5.1 | 0.54 | 3.8 | 0.06 | 0.23 | 0.21 | 124 | 210 |
| 125 ISL | 12.87 | 12.85 | 33.703 | 25.418 | 258.4 | 0.381 | 5.31 | 88.6 | 5.3 | 0.56 | 4.2 | 0.06 | 0.22 | 0.20 | 126 | |
| 140 | 12.19 | 12.17 | 33.671 | 25.525 | 248.5 | 0.419 | 5.17 | 85.0 | 6.7 | 0.68 | 6.4 | 0.03 | 0.17 | 0.13 | 141 | 209 |
| 150 ISL | 11.56 | 11.54 | 33.662 | 25.636 | 238.0 | 0.443 | 5.02 | 81.5 | 8.4 | 0.81 | 8.5 | 0.02 | 0.12 | 0.09 | 151 | |
| 164 | 10.70 | 10.68 | 33.676 | 25.802 | 222.3 | 0.475 | 4.76 | 75.8 | 11.6 | 1.01 | 11.9 | 0.01 | 0.06 | 0.05 | 165 | 208 |
| 194 | 9.65 | 9.63 | 33.827 | 26.098 | 194.5 | 0.538 | 3.98 | 62.0 | 20.8 | 1.48 | 19.7 | 0.01 | 0.01 | 0.02 | 195 | 207 |
| 200 ISL | 9.50 | 9.48 | 33.855 | 26.145 | 190.1 | 0.549 | 3.90 | 60.6 | 22.0 | 1.53 | 20.5 | 0.01 | | | 201 | |
| 228 | 8.95 | 8.93 | 33.962 | 26.317 | 174.1 | 0.600 | 3.63 | 55.7 | 26.9 | 1.71 | 23.2 | 0.01 | | | 229 | 206 |
| 250 ISL | 8.55 | 8.52 | 33.999 | 26.409 | 165.7 | 0.638 | 3.42 | 52.0 | 30.9 | 1.82 | 25.1 | 0.00 | | | 251 | |
| 268 | 8.26 | 8.23 | 34.014 | 26.465 | 160.5 | 0.667 | 3.22 | 48.7 | 34.3 | 1.92 | 26.5 | 0.00 | | | 269 | 205 |
| 300 ISL | 7.84 | 7.81 | 34.042 | 26.550 | 152.9 | 0.717 | 2.69 | 40.3 | 40.3 | 2.15 | 29.3 | 0.00 | | | 302 | |
| 318 | 7.61 | 7.58 | 34.053 | 26.592 | 149.0 | 0.744 | 2.37 | 35.3 | 43.8 | 2.29 | 30.9 | 0.00 | | | 320 | 204 |
| 377 | 6.70 | 6.67 | 34.085 | 26.744 | 134.9 | 0.828 | 1.56 | 22.8 | 57.3 | 2.63 | 35.5 | 0.00 | | | 379 | 203 |
| 400 ISL | 6.47 | 6.43 | 34.106 | 26.791 | 130.6 | 0.859 | 1.30 | 18.9 | 61.9 | 2.74 | 36.8 | 0.00 | | | 402 | |
| 437 | 6.18 | 6.14 | 34.141 | 26.856 | 124.7 | 0.906 | 0.95 | 13.7 | 68.7 | 2.90 | 38.6 | 0.01 | | | 440 | 202 |
| 500 ISL | 5.78 | 5.74 | 34.196 | 26.950 | 116.3 | 0.982 | 0.60 | 8.6 | 78.1 | 3.06 | 40.6 | 0.01 | | | 503 | |
| 517 | 5.67 | 5.63 | 34.211 | 26.976 | 114.0 | 1.001 | 0.50 | 7.1 | 80.6 | 3.10 | 41.1 | 0.01 | | | 520 | 201 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|--------|------|------|
| 30 31.1 N | 122 15.5 W | 08/04/01 | 0705 | UTC | 4163 m | 290 | 10 kn | 310 08 09 | 1 | 1021.3 mb | 13.2 C | 10.6 C | 29m | 2/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 15.38 | 15.38 | 33.590 | 24.803 | 313.6 | 0.000 | 5.81 | 102.0 | 3.2 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 0 | |
| 3 | 15.38 | 15.38 | 33.590 | 24.803 | 313.6 | 0.009 | 5.81 | 102.0 | 3.2 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 3 | 220 |
| 10 ISL | 15.38 | 15.38 | 33.590 | 24.803 | 313.8 | 0.031 | 5.82 | 102.2 | 3.1 | 0.30 | 0.2 | 0.00 | 0.09 | 0.02 | 10 | |
| 14 | 15.38 | 15.38 | 33.589 | 24.802 | 314.0 | 0.044 | 5.82 | 102.2 | 3.1 | 0.30 | 0.2 | 0.00 | 0.09 | 0.02 | 14 | 219 |
| 20 ISL | 15.39 | 15.39 | 33.591 | 24.802 | 314.3 | 0.063 | 5.81 | 102.1 | 3.1 | 0.30 | 0.2 | 0.00 | 0.09 | 0.02 | 20 | |
| 30 | 15.40 | 15.40 | 33.594 | 24.802 | 314.5 | 0.094 | 5.79 | 101.7 | 3.1 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 30 | 218 |
| 45 | 15.41 | 15.40 | 33.595 | 24.801 | 315.1 | 0.141 | 5.81 | 102.1 | 3.1 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 45 | 217 |
| 50 ISL | 15.41 | 15.40 | 33.596 | 24.802 | 315.2 | 0.157 | 5.80 | 101.9 | 3.1 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 50 | |
| 59 | 15.40 | 15.39 | 33.597 | 24.806 | 315.1 | 0.186 | 5.78 | 101.5 | 3.1 | 0.30 | 0.2 | 0.00 | 0.12 | 0.02 | 59 | 216 |
| 73 | 15.17 | 15.16 | 33.602 | 24.860 | 310.3 | 0.229 | 5.83 | 101.9 | 3.1 | 0.29 | 0.2 | 0.00 | 0.20 | 0.06 | 73 | 215 |
| 75 ISL | 15.14 | 15.13 | 33.595 | 24.862 | 310.3 | 0.236 | 5.83 | 101.9 | 3.1 | 0.29 | 0.2 | 0.00 | 0.21 | 0.08 | 75 | |
| 84 | 15.01 | 15.00 | 33.605 | 24.898 | 307.1 | 0.263 | 5.78 | 100.7 | 3.0 | 0.29 | 0.2 | 0.00 | 0.28 | 0.16 | 84 | 214 |
| 94 | 13.94 | 13.93 | 33.525 | 25.063 | 291.5 | 0.293 | 5.65 | 96.3 | 4.1 | 0.42 | 1.3 | 0.06 | 0.40 | 0.24 | 94 | 213 |
| 100 ISL | 13.46 | 13.45 | 33.490 | 25.135 | 284.7 | 0.311 | 5.63 | 95.0 | 4.4 | 0.46 | 1.9 | 0.08 | 0.38 | 0.23 | 100 | |
| 106 | 13.00 | 12.99 | 33.468 | 25.210 | 277.7 | 0.327 | 5.61 | 93.7 | 4.9 | 0.52 | 2.8 | 0.09 | 0.37 | 0.22 | 106 | 212 |
| 113 | 12.37 | 12.36 | 33.470 | 25.334 | 265.9 | 0.346 | 5.41 | 89.2 | 6.1 | 0.65 | 4.9 | 0.10 | 0.31 | 0.21 | 113 | 211 |
| 124 | 11.70 | 11.68 | 33.511 | 25.492 | 251.0 | 0.375 | 5.20 | 84.6 | 7.4 | 0.76 | 7.1 | 0.06 | 0.22 | 0.17 | 125 | 210 |
| 125 ISL | 11.63 | 11.61 | 33.511 | 25.505 | 249.8 | 0.377 | 5.18 | 84.1 | 7.6 | 0.78 | 7.4 | 0.06 | 0.21 | 0.17 | 126 | |
| 139 | 10.73 | 10.73 | 33.525 | 25.675 | 233.8 | 0.411 | 4.87 | 77.6 | 10.9 | 1.01 | 11.2 | 0.02 | 0.13 | 0.10 | 140 | 209 |
| 150 ISL | 10.38 | 10.36 | 33.595 | 25.794 | 222.6 | 0.436 | 4.52 | 71.5 | 13.9 | 1.19 | 14.1 | 0.01 | 0.08 | 0.07 | 151 | |
| 164 | 10.08 | 10.06 | 33.711 | 25.936 | 209.4 | 0.467 | 4.09 | 64.3 | 17.8 | 1.40 | 17.5 | 0.00 | 0.03 | 0.05 | 165 | 208 |
| 193 | 9.44 | 9.42 | 33.935 | 26.217 | 183.1 | 0.523 | 3.59 | 55.7 | 24.7 | 1.66 | 22.1 | 0.00 | 0.00 | 0.03 | 194 | 207 |
| 200 ISL | 9.32 | 9.30 | 33.959 | 26.256 | 179.6 | 0.536 | 3.57 | 55.3 | 25.7 | 1.69 | 22.6 | 0.00 | | | 201 | |
| 229 | 8.83 | 8.81 | 34.001 | 26.367 | 169.4 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|-----------|----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 30 | 10.7 N | 122 55.3 W | 08/04/01 | 1801 | UTC | 3860 m | 320 | 24 kn | 290 | 08 05 | 1 | 1020.4 mb | 13.5 C | 11.0 C | 25m | 4/8 | SC |
| 0 | ISL | 15.32 | 15.32 | 33.566 | 24.797 | 314.1 | 0.000 | 5.77 | 101.2 | 3.0 | 0.29 | 0.2 | 0.00 | 0.10 | 0.03 | 0 | |
| 2 | A | 15.32 | 15.32 | 33.566 | 24.797 | 314.1 | 0.006 | 5.77 | 101.2 | 3.0 | 0.29 | 0.2 | 0.00 | 0.10 | 0.03 | 2 222 | |
| 10 | ISL | 15.32 | 15.32 | 33.566 | 24.798 | 314.3 | 0.031 | 5.80 | 101.7 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 10 | |
| 16 | A | 15.32 | 15.32 | 33.566 | 24.798 | 314.5 | 0.050 | 5.82 | 102.1 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 16 221 | |
| 20 | ISL | 15.32 | 15.32 | 33.566 | 24.798 | 314.6 | 0.063 | 5.80 | 101.7 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 20 | |
| 25 | | 15.32 | 15.32 | 33.566 | 24.798 | 314.8 | 0.079 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.14 | U-0.02 | U 25 220 | |
| 30 | ISL | 15.32 | 15.32 | 33.566 | 24.798 | 314.9 | 0.094 | 5.79 | 101.5 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 30 | |
| 33 | A | 15.32 | 15.31 | 33.566 | 24.798 | 315.0 | 0.104 | 5.80 | 101.7 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 33 219 | |
| 42 | | 15.32 | 15.31 | 33.566 | 24.799 | 315.2 | 0.132 | 5.77 | 101.2 | 2.9 | 0.29 | 0.2 | 0.00 | 0.13 | 0.00 | 42 218 | |
| 50 | ISL | 15.32 | 15.31 | 33.567 | 24.800 | 315.4 | 0.157 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.18 | 0.03 | 50 | |
| 53 | A | 15.32 | 15.31 | 33.567 | 24.800 | 315.5 | 0.167 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.15 | U-0.04 | U 53 217 | |
| 68 | A | 15.32 | 15.31 | 33.568 | 24.801 | 315.8 | 0.214 | 5.77 | 101.2 | 2.9 | 0.29 | 0.2 | 0.00 | 0.21 | U-0.04 | U 68 216 | |
| 75 | ISL | 15.34 | 15.33 | 33.578 | 24.805 | 315.7 | 0.236 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.33 | 0.17 | 75 | |
| 77 | | 15.34 | 15.33 | 33.581 | 24.807 | 315.5 | 0.243 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.21 | U 0.27 | U 77 215 | |
| 86 | | 15.26 | 15.25 | 33.655 | 24.882 | 308.7 | 0.271 | 5.73 | 100.4 | 2.8 | 0.30 | 0.2 | 0.00 | 0.41 | 0.25 | 86 214 | |
| 94 | A | 14.53 | 14.52 | 33.612 | 25.007 | 296.9 | 0.295 | 5.67 | 97.9 | 3.2 | 0.35 | 0.5 | 0.04 | 0.45 | 0.27 | 94 213 | |
| 100 | ISL | 14.04 | 14.03 | 33.586 | 25.090 | 289.1 | 0.312 | 5.56 | 95.0 | 3.9 | 0.43 | 1.3 | 0.10 | 0.41 | 0.25 | 100 | |
| 106 | | 13.53 | 13.52 | 33.568 | 25.181 | 280.5 | 0.330 | 5.40 | 91.3 | 4.8 | 0.53 | 2.7 | 0.13 | 0.33 | 0.23 | 106 212 | |
| 114 | | 12.73 | 12.71 | 33.566 | 25.339 | 265.6 | 0.351 | 5.15 | 85.6 | 6.2 | 0.69 | 5.4 | 0.08 | 0.16 | 0.26 | 114 211 | |
| 122 | | 12.23 | 12.21 | 33.595 | 25.458 | 254.4 | 0.372 | 5.11 | 84.1 | 6.8 | 0.72 | 6.5 | 0.05 | 0.11 | 0.10 | 123 210 | |
| 125 | ISL | 12.03 | 12.01 | 33.608 | 25.506 | 249.8 | 0.380 | 5.07 | 83.1 | 7.3 | 0.75 | 7.1 | 0.04 | 0.10 | 0.09 | 126 | |
| 142 | | 11.08 | 11.06 | 33.676 | 25.734 | 228.4 | 0.420 | 4.78 | 76.8 | 10.5 | 0.97 | 10.7 | 0.02 | 0.05 | 0.04 | 143 209 | |
| 150 | ISL | 10.86 | 10.84 | 33.689 | 25.783 | 223.8 | 0.439 | 4.67 | 74.7 | 11.6 | 1.03 | 11.8 | 0.01 | | | 151 | |
| 166 | | 10.54 | 10.52 | 33.716 | 25.861 | 216.7 | 0.474 | 4.42 | 70.2 | 14.0 | 1.16 | 14.1 | 0.01 | 0.03 | U 0.00 | U 167 208 | |
| 194 | | 9.74 | 9.72 | 33.858 | 26.108 | 193.6 | 0.531 | 3.73 | 58.2 | 21.5 | 1.55 | 20.3 | 0.01 | 0.12 | U-0.02 | U 195 207 | |
| 200 | ISL | 9.61 | 9.59 | 33.890 | 26.154 | 189.3 | 0.543 | 3.59 | 55.9 | 23.1 | 1.62 | 21.4 | 0.01 | | | 201 | |
| 225 | | 9.16 | 9.14 | 34.012 | 26.323 | 173.6 | 0.588 | 3.02 | 46.6 | 29.4 | 1.89 | 25.0 | 0.00 | | | 226 206 | |
| 250 | ISL | 8.82 | 8.79 | 34.093 | 26.441 | 162.8 | 0.630 | 2.48 | 38.0 | 34.9 | 2.12 | 27.6 | 0.00 | | | 251 | |
| 267 | | 8.59 | 8.56 | 34.125 | 26.502 | 157.2 | 0.657 | 2.19 | 33.4 | 38.3 | 2.25 | 29.0 | 0.00 | | | 268 205 | |
| 300 | ISL | 7.92 | 7.89 | 34.107 | 26.589 | 149.2 | 0.708 | 2.09 | 31.4 | 43.7 | 2.35 | 30.8 | 0.00 | | | 302 | |
| 322 | | 7.53 | 7.50 | 34.093 | 26.635 | 145.0 | 0.740 | 2.04 | 30.3 | 46.9 | 2.40 | 31.7 | 0.00 | | | 324 204 | |
| 376 | | 7.45 | 7.41 | 34.215 | 26.743 | 135.7 | 0.816 | 1.07 | 15.9 | 55.0 | 2.74 | 34.6 | 0.00 | | | 378 203 | |
| 400 | ISL | 7.26 | 7.22 | 34.238 | 26.788 | 131.6 | 0.848 | 0.85 | 12.6 | 58.6 | 2.84 | 35.7 | 0.00 | | | 402 | |
| 438 | | 6.86 | 6.82 | 34.250 | 26.853 | 125.7 | 0.897 | 0.65 | 9.5 | 64.4 | 2.95 | 37.2 | 0.00 | | | 441 202 | |
| 500 | ISL | 6.08 | 6.04 | 34.228 | 26.938 | 117.8 | 0.972 | 0.56 | 8.1 | 74.4 | 3.05 | 39.7 | 0.00 | | | 503 | |
| 517 | | 5.87 | 5.83 | 34.224 | 26.962 | 115.5 | 0.992 | 0.54 | 7.7 | 77.1 | 3.08 | 40.4 | 0.00 | | | 520 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 120

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|------------|----------|--------|--------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|---------|----|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 29 | 50.8 N | 123 35.1 W | 09/04/01 | 0018 | UTC | 4106 m | 310 | 27 kn | 330 | 09 07 | 1 | 1020.0 mb | 13.9 C | 10.9 C | 25m | 4/8 | SC |
| 0 | ISL | 15.61 | 15.61 | 33.647 | 24.796 | 314.2 | 0.000 | 5.77 | 101.8 | 3.0 | 0.27 | 0.3 | 0.00 | 0.08 | 0.01 | 0 | |
| 3 | | 15.61 | 15.61 | 33.647 | 24.797 | 314.3 | 0.009 | 5.77 | 101.8 | 3.0 | 0.27 | 0.3 | 0.00 | 0.08 | 0.01 | 3 220 | |
| 10 | ISL | 15.61 | 15.61 | 33.648 | 24.797 | 314.5 | 0.031 | 5.75 | 101.5 | 3.0 | 0.27 | 0.3 | 0.00 | 0.08 | 0.01 | 10 | |
| 16 | | 15.62 | 15.62 | 33.648 | 24.795 | 314.8 | 0.050 | 5.74 | 101.3 | 3.0 | 0.27 | 0.3 | 0.00 | 0.08 A | 0.00 A | 16 219 | |
| 20 | ISL | 15.62 | 15.62 | 33.648 | 24.795 | 314.9 | 0.063 | 5.74 | 101.3 | 3.0 | 0.27 | 0.3 | 0.00 | 0.09 | 0.00 | 20 | |
| 30 | | 15.62 | 15.62 | 33.647 | 24.794 | 315.3 | 0.094 | 5.75 | 101.5 | 3.0 | 0.27 | 0.3 | 0.00 | 0.10 | 0.00 | 30 218 | |
| 46 | | 15.63 | 15.62 | 33.653 | 24.797 | 315.5 | 0.145 | 5.76 | 101.7 | 3.0 | 0.27 | 0.3 | 0.00 | 0.08 | -0.01 | 46 217 | |
| 50 | ISL | 15.82 | 15.81 | 33.731 | 24.815 | 314.0 | 0.157 | 5.73 | 101.6 | 2.9 | 0.26 | 0.3 | 0.00 | 0.09 | -0.01 | 50 | |
| 61 | | 16.34 | 16.33 | 33.959 | 24.872 | 308.9 | 0.192 | 5.65 | 101.3 | 2.6 | 0.22 | 0.3 | 0.00 | 0.12 | 0.00 | 61 216 | |
| 75 | ISL | 16.40 | 16.39 | 34.025 | 24.910 | 305.9 | 0.235 | 5.60 | 100.6 | 2.5 | 0.22 | 0.4 | 0.00 | 0.14 | 0.02 | 75 | |
| 76 | | 16.40 | 16.39 | 34.030 | 24.914 | 305.5 | 0.238 | 5.60 | 100.6 | 2.5 | 0.22 | 0.4 | 0.00 | 0.14 | 0.02 | 76 215 | |
| 85 | | 16.61 | 16.60 | 34.167 | 24.971 | 300.4 | 0.265 | 5.58 | 100.7 | 2.5 | 0.21 | 0.4 | 0.00 | 0.18 | 0.01 | 85 214 | |
| 94 | | 16.69 | 16.67 | 34.219 | 24.992 | 298.7 | 0.292 | 5.58 | 100.9 | 2.4 | 0.20 | 0.4 | 0.00 | 0.19 | 0.05 | 94 213 | |
| 100 | ISL | 16.61 | 16.59 | 34.215 | 25.008 | 297.4 | 0.310 | 5.54 | 100.0 | 2.5 | 0.21 | 0.4 | 0.01 | 0.23 | 0.10 | 100 | |
| 105 | | 16.55 | 16.53 | 34.211 | 25.019 | 296.5 | 0.325 | 5.51 | 99.4 | 2.5 | 0.21 | 0.4 | 0.01 | 0.27 | 0.16 | 105 212 | |
| 114 | | 15.12 | 15.10 | 33.994 | 25.175 | 281.7 | 0.351 | 5.49 | 96.1 | 3.1 | 0.32 | 1.1 | 0.07 | 0.38 | 0.33 | 114 211 | |
| 124 | | 12.78 | 12.76 | 33.616 | 25.368 | 263.1 | 0.378 | 5.55 | 92.4 | 4.5 | 0.47 | 2.7 | 0.08 | 0.22 | 0.19 | 125 210 | |
| 125 | ISL | 12.67 | 12.65 | 33.602 | 25.379 | 262.1 | 0.381 | 5.54 | 92.0 | 4.6 | 0.48 | 2.9 | 0.08 | 0.22 | 0.18 | 126 | |
| 140 | | 11.82 | 11.80 | 33.562 | 25.510 | 249.8 | 0.419 | 5.37 | 87.6 | 6.1 | 0.66 | 5.4 | 0.03 | 0.17 | 0.10 | 141 209 | |
| 150 | ISL | 11.41 | 11.39 | 33.592 | 25.609 | 240.5 | 0.444 | 5.25 | 84.9 | 7.1 | 0.73 | 6.9 | 0.02 | 0.13 | 0.07 | 151 | |
| 162 | | 11.00 | 10.98 | 33.661 | 25.737 | 228.5 | 0.472 | | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 77 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 34 4.0 N | 122 58.4 W | 21/04/01 | 1723 UTC | 15 m | | 1210 - 1909 PST | 1210 PST | 1909 PST | 291.6 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SI03 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|------|------|
| 2 | 13.05 | 33.197 | 24.987 | 6.24 | 104.2 | 3.1 | 0.24 | 0.4 | 0.03 | 0.59 | 0.12 | 81. A | 6.4 | 6.7 | 6.6 | 0.12 |
| 10 | 13.05 | 33.197 | 24.987 | 6.22 | 103.9 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 36. | 10.4 | 10.7 | 10.5 | 0.20 |
| 20 | 13.05 | 33.197 | 24.988 | 6.23 | 104.1 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 13. | 14.8 | 7.5 | 11.1 | 0.21 |
| 30 | 13.05 | 33.197 | 24.988 | 6.22 | 103.9 | 3.0 | 0.24 | 0.4 | 0.03 | 0.59 | 0.13 | 4.6 | 3.3 | 3.5 | 3.4 | 0.12 |
| 39 | 13.05 | 33.197 | 24.988 | 6.21 | 103.7 | 3.0 | 0.24 | 0.4 | 0.03 | 0.58 | 0.11 | 1.8 | 1.1 | 1.0 | 1.1 | 0.11 |
| 47 | 13.05 | 33.197 | 24.988 | 6.21 | 103.7 | 3.0 | 0.25 | 0.4 | 0.03 | 0.59 | 0.12 | | | | | |
| 55 | 13.05 | 33.197 | 24.989 | 6.22 | 103.9 | 3.0 | 0.25 | 0.5 | 0.03 | 0.58 | 0.12 | 0.36 | 0.06 | 0.03 | 0.05 | 0.09 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 33 49.0 N | 121 50.4 W | 19/04/01 | 1812 UTC | 13 m | | 1206 - 1910 PST | 1206 PST | 1910 PST | 444.3 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SI03 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|------|------|
| 2 | 13.15 | 33.287 | 25.037 | 6.39 | 107.0 | 1.7 | 0.43 | 1.2 | 0.07 | 1.15 | 0.22 | 79. A | 16.8 | 16.9 | 16.9 | 0.27 |
| 7 | 13.13 | 33.285 | 25.039 | 6.42 | 107.5 | 1.7 | 0.42 | 1.1 | 0.07 | 1.06 | 0.28 | 44. | 21.9 | 22.2 | 22.0 | 0.29 |
| 16 | 12.92 | 33.268 | 25.068 | 6.37 | 106.2 | 2.1 | 0.42 | 1.2 | 0.07 | 0.99 | 0.21 | 15. | 13.9 | 13.7 | 13.8 | 0.21 |
| 27 | 12.48 | 33.260 | 25.148 | 6.18 | 102.0 | 2.9 | 0.49 | 1.8 | 0.11 | 0.82 | 0.24 | 4.1 | 5.7 | 5.5 | 5.6 | 0.22 |
| 35 | 12.50 | 33.303 | 25.177 | 6.15 | 101.6 | 3.0 | 0.49 | 1.9 | 0.14 | 0.76 | 0.29 | 1.6 | 2.0 | 2.0 | 2.0 | 0.15 |
| 42 | 12.56 | 33.343 | 25.197 | 6.18 | 102.3 | 2.7 | 0.48 | 1.7 | 0.13 | 0.62 | 0.27 | | | | | |
| 49 | 12.31 | 33.376 | 25.271 | 6.02 | 99.1 | 4.2 | 0.62 | 3.3 | 0.18 | 0.66 | 0.29 | 0.31 | 0.13 | 0.17 | 0.15 | 0.08 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 80 100

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|---------------------------|
| 32 47.8 N | 123 55.6 W | 20/04/01 | 1733 UTC | 18 m | | 1914 - 1914 PST | 1215 PST | 1215 PST | 203.3 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SI03 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|------|------|
| 2 | 13.53 | 33.145 | 24.851 | 6.18 | 104.2 | 3.2 | 0.35 | 0.0 | 0.00 | 0.39 | 0.06 | 84. A | 4.7 | 4.8 | 4.8 | 0.14 |
| 11 | 13.52 | 33.145 | 24.853 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.38 | 0.05 | 39. | 7.0 | 6.5 | 6.8 | 0.15 |
| 23 | 13.52 | 33.146 | 24.854 | 6.18 | 104.2 | 3.1 | 0.34 | 0.0 | 0.00 | 0.40 | 0.07 | 14. | 4.3 | 4.6 | 4.4 | 0.13 |
| 37 | 13.15 | 33.171 | 24.948 | 6.23 | 104.3 | 3.1 | 0.35 | 0.1 | 0.00 | 0.45 | 0.10 | 4.3 | 2.1 | 2.1 | 2.1 | 0.13 |
| 47 | 12.89 | 33.169 | 24.998 | 6.22 | 103.5 | 3.0 | 0.38 | 0.4 | 0.03 | 0.56 | 0.13 | 1.8 | 1.1 | 1.1 | 1.1 | 0.10 |
| 56 | 13.03 | 33.257 | 25.039 | 6.20 | 103.5 | 2.4 | 0.36 | 0.4 | 0.04 | 0.64 | 0.16 | | | | | |
| 66 | 12.79 | 33.306 | 25.124 | 6.15 | 102.2 | 2.4 | 0.43 | 1.3 | 0.11 | 0.97 | 0.33 | 0.36 | 0.34 | 0.15 | 0.25 | 0.07 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|----------------------------|
| 34 10.7 N | 119 30.3 W | 18/04/01 | 1928 UTC | 6 m | | 1202 - 1904 PST | 1157 PST | 1904 PST | 2099.2 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SI03 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|-------|------|
| 2 | 12.51 | 33.780 | 25.545 | 7.11 | 117.9 | 2.1 | 0.30 | 0.0 | 0.06 | 9.67 | 1.84 | 60. A | 195.2 | 205.4 | 200.3 | 1.2 |
| 3 | 12.53 | 33.781 | 25.542 | 7.11 | 117.9 | 2.2 | 0.34 | 0.0 | 0.06 | 8.94 | 2.66 | 46. | 131.6 | 138.6 | 135.1 | 1.5 |
| 8 | 12.16 | 33.784 | 25.615 | 7.31 | 120.3 | 1.5 | 0.29 | 0.1 | 0.04 | 14.15 | 3.23 | 13. | 121.6 | 156.6 | 139.1 | 1.5 |
| 12 | 12.01 | 33.787 | 25.646 | 6.94 | 113.8 | 2.2 | 0.33 | 0.4 | 0.06 | 18.22 | 2.37 | 4.6 | 84.5 | 88.1 | 86.3 | 0.58 |
| 16 | 11.82 | 33.796 | 25.689 | 6.88 | 112.4 | 2.6 | 0.42 | 1.2 | 0.06 | 22.63 | 2.95 | 1.7 | 43.4 | 43.0 | 43.2 | 0.84 |
| 22 | 11.64 | 33.791 | 25.719 | 6.11 | 99.4 | 6.7 | 0.73 | 5.2 | 0.14 | 13.28 | 3.21 | 0.36 | 2.3 | 1.6 | 2.0 | 0.53 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-------|-----------------|----------|----------------|----------------------------|
| 33 34.5 N | 120 45.2 W | 16/04/01 | 1842 UTC | 7 m | | 1200 - 1857 PST | 1203 PST | 1857 PST | 1551.2 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SI03 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|-------|------|
| 2 | 11.92 | 33.571 | 25.495 | 6.70 | 109.5 | 2.8 | 0.52 | 3.8 | 0.20 | 10.34 | 1.84 | 64. A | 54.6 | 53.5 | 54.0 | 0.58 |
| 6 | 11.99 | 33.622 | 25.521 | 6.74 | 110.4 | 2.8 | 0.56 | 3.5 | 0.20 | 10.65 | 1.42 | 27. | 115.4 | 111.8 | 113.6 | 4.0 |
| 11 | 12.01 | 33.625 | 25.520 | 6.72 | 110.1 | 2.8 | 0.55 | 3.5 | 0.20 | 9.97 | 2.36 | 9.0 | 94.7 | 89.9 | 92.3 | 1.8 |
| 16 | 11.99 | 33.627 | 25.526 | 6.70 | 109.7 | 2.7 | 0.59 | 3.5 | 0.19 | 9.74 | 2.11 | 3.0 | 61.7 | 47.7 | 54.7 | 1.1 |
| 19 | 11.99 | 33.626 D | 25.525 | 6.68 | 109.4 | 2.6 | 0.53 | 3.9 | 0.21 | 9.39 | 2.38 | 1.6 | 23.8 | 21.9 | 22.9 | 0.40 |
| 28 | 11.97 | 33.631 | 25.533 | 6.66 | 109.0 | 2.6 | 0.57 | 3.6 | 0.19 | 9.89 | 2.24 | 0.22 | 1.5 | 1.2 | 1.4 | 0.37 |

A) INCUBATION LIGHT INTENSITIES WERE 93, 41, 14, 4.5, 1.8, 0.36 PERCENT RESPECTIVELY.

| PRIMARY PRODUCTIVITY CASTS | | | | | | | | | | | | | | | | |
|--|------------|-----------|-----------|---------------------|-----------------|-----------------|----------|---------------------------|----------|------------------|--------|----------------|--------|------------------------|------|------|
| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 0104 | | | | | | | | STATION 83 100 | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 32 13.6 N | 123 29.2 W | 15/04/01 | 1757 UTC | 25 m | 1213 - 1913 PST | 1213 PST | 1913 PST | 614.8 mg C/m ² | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | (mg C/m ³) | mean | dark |
| m | deg c | theta | ml/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | | |
| 3 | 13.47 | 33.255 | 24.948 | 6.19 | 104.3 | 3.0 | 0.35 | 0.3 | 0.02 | 0.43 | 0.06 | 83. A | 6.3 | 5.6 | 6.0 | 0.10 |
| 10 | 13.31 | 33.255 | 24.980 | 6.19 | 104.0 | 3.0 | 0.35 | 0.2 | 0.02 | 0.40 | 0.08 | | | | | |
| 16 | 13.24 | 33.253 | 24.993 | 6.22 | 104.3 | 2.9 | 0.35 | 0.2 | 0.02 | 0.42 | 0.09 | 37. | 8.8 | 9.6 | 9.2 | 0.31 |
| 25 | 13.11 | 33.276 | 25.037 | 6.24 | 104.4 | 2.7 | 0.35 | 0.2 | 0.03 | 0.60 | 0.12 | | | | | |
| 34 | 13.01 | 33.299 | 25.075 | 6.19 | 103.4 | 2.8 | 0.36 | 0.4 | 0.05 | 0.90 | 0.28 | 12. | 12.8 | 13.6 | 13.2 | 0.20 |
| 43 | 13.01 | 33.311 | 25.084 | 6.17 | 103.0 | 2.9 | 0.38 | 0.5 | 0.06 | 1.03 | 0.35 | | | | | |
| 53 | 12.96 | 33.320 | 25.102 | 6.09 | 101.6 | 3.5 | 0.41 | 0.9 | 0.07 | 1.14 | 0.35 | 3.9 | 6.7 | 7.3 | 7.0 | 0.15 |
| 59 | 12.93 | 33.316 | 25.104 | 6.07 | 101.2 | 3.7 | 0.42 | 0.9 | 0.08 | 0.76 | 0.33 | | | | | |
| 68 | 12.67 | 33.297 | 25.141 | 6.00 | 99.5 | 4.3 | 0.48 | 1.6 | 0.10 | 0.62 | 0.35 | 1.5 | 2.1 | 2.3 | 2.2 | 0.20 |
| 80 | 11.01 | 33.215 | 25.386 | 5.63 | 90.0 | 8.3 | 0.83 | 7.3 | 0.08 | 0.31 | 0.28 | | | | | |
| 93 | 10.27 | 33.293 | 25.576 | 5.30 | 83.5 | 11.0 | 1.01 | 10.6 | 0.03 | 0.14 | 0.16 | 0.33 | | 0.64 | 0.64 | 0.15 |
| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 0104 | | | | | | | | STATION 87 55 | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 33 8.9 N | 120 1.4 W | 13/04/01 | 1805 UTC | 12 m | 1200 - 1850 PST | 1200 PST | 1853 PST | 876.6 mg C/m ² | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | (mg C/m ³) | mean | dark |
| m | deg c | theta | ml/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | | |
| 2 | 12.50 | 33.508 | 25.336 | 6.30 | 104.2 | 2.8 | 0.59 | 3.6 | 0.16 | 2.06 | 0.96 | 77. A | 12.3 | 12.3 | 0.22 | |
| 8 | 12.52 | 33.508 | 25.332 | 6.34 | 104.9 | 2.7 | 0.59 | 3.5 | 0.16 | 2.07 | 1.02 | 36. | 41.3 | 41.3 | 41.3 | 0.44 |
| 16 | 12.53 | 33.509 | 25.331 | 6.35 | 105.1 | 2.5 | 0.58 | 3.4 | 0.16 | 2.12 | 0.82 | 13. | 38.3 | 36.7 | 37.5 | 0.38 |
| 25 | 12.49 | 33.508 | 25.338 | 6.32 | 104.5 | 2.7 | 0.59 | 3.6 | 0.16 | 2.13 | 0.95 | 4.1 | 16.9 | 18.6 | 17.7 | 0.32 |
| 31 | 12.48 | 33.508 | 25.340 | 6.29 | 104.0 | 2.7 | 0.60 | 3.6 | 0.16 | 1.94 | 0.90 | 1.9 | 7.1 | 7.1 | 7.1 | 0.23 |
| 38 | 12.48 | 33.508 | 25.340 | 6.28 | 103.8 | 2.7 | 0.60 | 3.9 | 0.16 | 1.84 | 0.90 | | | | | |
| 45 | 12.48 | 33.509 | 25.341 | 6.27 | 103.7 | 2.7 | 0.61 | 3.7 | 0.16 | 2.00 | 0.80 | 0.32 | 0.48 | 0.52 | 0.50 | 0.14 |
| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 0104 | | | | | | | | STATION 87 90 | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 31 59.9 N | 122 23.3 W | 14/04/01 | 1716 UTC | 26 m | 1209 - 1906 PST | 1209 PST | 1906 PST | 230.7 mg C/m ² | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | (mg C/m ³) | mean | dark |
| m | deg c | theta | ml/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | | |
| 1 | 13.90 | 33.261 | 24.865 | 6.01 | 102.2 | 3.4 | 0.34 | 0.1 | 0.00 | 0.23 | 0.05 | 94. A | 3.2 | 3.5 | 3.3 | 0.06 |
| 16 | 13.98 | 33.297 | 24.877 | 6.01 | 102.4 | 3.3 | 0.34 | 0.0 | 0.00 | 0.28 | 0.05 B | 39. | 5.1 | 5.0 | 5.1 | 0.07 |
| 24 | 14.12 | 33.337 | 24.879 | 5.96 | 101.9 | 3.3 | 0.33 | 0.1 | 0.00 | 0.27 | 0.05 | | | | | |
| 33 | 14.23 | 33.381 | 24.890 | 5.94 | 101.8 | 3.2 | 0.32 | 0.1 | 0.00 | 0.24 | 0.06 | 14. | 3.4 | 3.2 | 3.3 | 0.07 |
| 43 | 14.09 | 33.348 | 24.894 | 5.97 | 102.0 | 3.2 | 0.33 | 0.1 | 0.00 | 0.28 | 0.05 | | | | | |
| 54 | 13.53 | 33.195 | 24.891 | 6.07 | 102.4 | 3.4 | 0.35 | 0.1 | 0.01 | 0.34 | 0.09 | 4.1 | 2.2 | 2.2 | 2.2 | 0.06 |
| 60 | 13.49 | 33.187 | 24.893 | 6.06 | 102.1 | 3.4 | 0.36 | 0.1 | 0.01 | 0.29 | 0.16 | | | | | |
| 67 | 13.40 | 33.175 | 24.902 | 6.08 | 102.3 | 3.4 | 0.36 | 0.1 | 0.01 | 0.36 | 0.10 | 1.9 | 0.95 | 0.98 | 0.96 | 0.07 |
| 78 | 13.27 | 33.200 | 24.948 | 6.07 | 101.8 | 3.5 | 0.38 | 0.3 | 0.03 | 0.37 | 0.14 | | | | | |
| 86 | 13.19 | 33.205 | 24.968 | 6.06 | 101.5 | 3.6 | 0.38 | 0.3 | 0.03 | 0.34 | 0.17 | | | | | |
| 95 | 13.12 | 33.202 | 24.980 | 6.04 | 101.0 | 3.7 | 0.41 | 0.5 | 0.05 | 0.36 | 0.11 | 0.37 | 0.10 | 0.08 | 0.09 | 0.05 |
| B) SECOND FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS. | | | | | | | | | | | | | | | | |
| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 0104 | | | | | | | | STATION 90 45 | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 32 55.2 N | 118 56.2 W | 11/04/01 | 1851 UTC | 12 m | 1156 - 1844 PST | 1157 PST | 1844 PST | 518.3 mg C/m ² | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | (mg C/m ³) | mean | dark |
| m | deg c | theta | ml/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | | |
| 2 | 13.57 | 33.541 | 25.149 | 6.10 | 103.2 | 3.5 | 0.38 | 1.1 | 0.07 | 1.00 | 0.26 | 77. A | 14.2 | 14.6 | 14.4 | 0.16 |
| 7 | 13.54 | 33.541 | 25.155 | 6.11 | 103.3 | 3.5 | 0.38 | 1.1 | 0.07 | 1.01 | 0.26 | 41. | 21.3 | 21.0 | 21.2 | 0.26 |
| 15 | 13.46 | 33.540 | 25.171 | 6.11 | 103.2 | 3.6 | 0.39 | 1.1 | 0.07 | 1.04 | 0.30 | 15. | 18.5 | 18.3 | 18.4 | 0.39 |
| 24 | 13.41 | 33.545 | 25.185 | 6.10 | 102.9 | 3.5 | 0.39 | 1.2 | 0.07 | 1.17 | 0.37 | 4.6 | 9.7 | 10.2 | 10.0 | 0.18 |
| 31 | 12.79 | 33.557 | 25.318 | 6.18 | 102.9 | 1.5 | 0.47 | 2.1 | 0.11 | 2.21 | 1.01 | 1.9 | 7.9 | 7.4 | 7.7 | 0.16 |
| 38 | 12.58 | 33.554 | 25.357 | 5.95 | 98.6 | 2.9 | 0.56 | 3.3 | 0.11 | 2.14 | 1.49 | | | | | |
| 44 | 11.96 | 33.552 | 25.474 | 5.15 | 84.3 | 8.8 | 0.90 | 8.7 | 0.11 | 0.97 | 0.96 | 0.36 | 0.35 | 0.34 | 0.35 | 0.08 |
| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 0104 | | | | | | | | STATION 90 80 | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 31 45.1 N | 121 19.6 W | 10/04/01 | 1744 UTC | 17 m | 1206 - 1906 PST | 1206 PST | 1906 PST | 192.5 mg C/m ² | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | S103 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | (mg C/m ³) | mean | dark |
| m | deg c | theta | ml/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | | |
| 2 | 13.49 | 33.316 | 24.991 | 6.08 | 102.6 | 3.7 | 0.36 | 0.4 | 0.03 | 0.39 | 0.08 | 83. A | 4.3 | 4.5 | 4.4 | 0.06 |
| 11 | 13.48 | 33.314 | 24.992 | 6.08 | 102.5 | 3.7 | 0.36 | 0.4 | 0.03 | 0.42 | 0.11 | 37. | 6.2 | 6.7 | 6.4 | 0.08 |
| 21 | 13.49 | 33.321 | 24.995 | 6.08 | 102.6 | 3.6 | 0.36 | 0.4 | 0.03 | 0.41 | 0.10 | 15. | 4.8 | 4.9 | 4.8 | 0.07 |
| 35 | 13.52 | 33.338 | 25.003 | 6.06 | 102.3 | 3.4 | 0.36 | 0.3 | 0.03 | 0.45 | 0.11 | 4.2 | 2.8 | 2.6 | 2.7 | 0.07 |
| 44 | 13.54 | 33.361 | 25.017 | 6.06 | 102.4 | 3.4 | 0.36 | 0.3 | 0.03 | 0.47 | 0.11 | 1.9 | 1.0 | 1.0 | 1.0 | 0.05 |
| 53 | 13.52 | 33.355 | 25.017 | 6.06 | 102.3 | 3.4 | 0.36 | 0.4 | 0.03 | 0.44 | 0.12 | | | | | |
| 62 | 12.83 | 33.298 | 25.110 | 5.91 | 98.3 | 4.6 | 0.49 | 2.2 | 0.12 | 0.49 | 0.18 | 0.37 | 0.10 | 0.12 | 0.11 | 0.04 |

A) INCUBATION LIGHT INTENSITIES WERE 93, 41, 14, 4.5, 1.8, 0.36 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 90 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
|-----------|------------|-----------|-------------|-------------|---------|-----------------|----------|----------|----------|------------------|------------|-----------|----------|------|----------------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | 2 | MEAN (mg C/m3) | DARK |
| 30 46.3 N | 123 20.4 W | 09/04/01 | 1803 UTC | 27 m | | 1214 - 1902 PST | 1214 PST | | | | | | | | 60.3 mg C/m2 | |
| 3 | 15.52 | 33.644 | 24.813 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 84. A | 0.31 | 0.38 | 0.35 | 0.05 |
| 18 | 15.52 | 33.643 | 24.813 | 5.74 | 101.1 | 2.9 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 36. | 1.3 | 1.3 | 1.3 | 0.05 |
| 26 | 15.52 | 33.643 | 24.813 | 5.76 | 101.5 | 2.8 | 0.28 | 0.1 | 0.00 | 0.08 | 0.02 | | | | | |
| 35 | 15.52 | 33.644 | 24.814 | 5.74 | 101.1 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.01 | 14. | 1.1 | 1.0 | 1.1 | 0.07 |
| 44 | 15.52 | 33.644 | 24.815 | 5.75 | 101.3 | 2.8 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | | | | | |
| 55 | 15.53 | 33.646 | 24.814 | 5.75 | 101.3 | 2.7 | 0.28 | 0.1 | 0.00 | 0.09 | 0.02 | 4.4 | 0.56 | 0.54 | 0.55 | 0.05 |
| 71 | 15.54 | 33.647 | 24.813 | 5.74 | 101.1 | 2.7 | 0.28 | 0.2 | 0.00 | 0.08 | 0.02 | 1.8 | 0.20 | 0.17 | 0.19 | 0.04 |
| 79 | 15.54 | 33.647 | 24.814 | 5.74 | 101.1 | 2.7 | 0.28 | 0.2 | 0.00 | 0.09 | 0.00 | | | | | |
| 90 | 15.51 | 33.645 | 24.819 | 5.74 | 101.1 | 2.7 | 0.29 | 0.2 | 0.00 | 0.09 | 0.03 | | | | | |
| 101 | 14.81 | 33.535 | 24.888 | 5.78 | 100.3 | 3.0 | 0.31 | 0.1 | 0.00 | 0.24 | 0.17 | 0.32 | 0.06 | 0.11 | 0.08 | 0.03 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 50

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
|-----------|------------|-----------|-------------|-------------|---------|-----------------|----------|----------|----------|------------------|------------|-----------|----------|-------|----------------|--------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | 2 | MEAN (mg C/m3) | DARK |
| 32 10.7 N | 118 53.5 W | 06/04/01 | 1918 UTC | 13 m | | 1210 - 1847 PST | 1158 PST | | | | | | | | 267.6 mg C/m2 | |
| 1 | 14.21 | 33.538 | 25.014 | 6.02 | 103.2 | 3.8 | 0.32 | 0.2 | 0.00 | 0.52 | 0.15 | 89. A | 5.6 | 5.3 | 5.5 | 0.08 |
| 8 | 14.19 | 33.538 | 25.019 | 6.03 | 103.3 | 3.8 | 0.32 | 0.2 | 0.00 | 0.53 | 0.15 | 39. | 9.2 | 9.2 | 9.2 | 0.18 |
| 16 | 14.14 | 33.540 | 25.031 | 6.03 | 103.2 | 3.8 | 0.31 | 0.2 | 0.00 | 0.57 | 0.17 | 15. | 8.7 | 8.3 | 8.5 | 0.19 |
| 26 | 13.90 | 33.529 | 25.073 | 6.05 | 103.1 | 4.3 | 0.34 | 0.4 | 0.01 | 0.73 | 0.23 | 4.6 | 6.8 | 6.8 | 6.8 | 0.13 |
| 34 | 13.55 | 33.514 | 25.133 | 6.06 | 102.5 | 4.9 | 0.38 | 0.8 | 0.04 | 0.67 | 0.26 | 1.8 | 3.4 | 3.3 | 3.3 | 0.12 |
| 41 | 13.42 | 33.508 | 25.155 | 6.00 | 101.2 | 5.1 | 0.40 | 1.2 | 0.06 | 0.65 | 0.27 | | | | | |
| 48 | 12.10 | 33.459 | 25.375 | 5.34 | 87.6 | 7.5 | 0.74 | 6.4 | 0.23 | 0.35 | 0.20 | 0.35 | -0.02 | -0.03 | -0.02 | 0.04 B |

B) DARK UPTAKE EXCEEDED LIGHT UPTAKE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
|-----------|------------|-----------|-------------|-------------|---------|-----------------|----------|----------|----------|------------------|------------|-----------|----------|------|----------------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | 2 | MEAN (mg C/m3) | DARK |
| 31 10.4 N | 120 55.1 W | 07/04/01 | 1845 UTC | 26 m | | 1206 - 1855 PST | 1206 PST | | | | | | | | 171.4 mg C/m2 | |
| 2 | 14.48 | 33.440 | 24.882 | 5.91 | 101.8 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 89. A | 1.7 | 1.5 | 1.6 | 0.09 |
| 15 | 14.47 | 33.440 | 24.884 | 5.92 | 102.0 | 3.2 | 0.32 | 0.2 | 0.00 | 0.24 | 0.04 | 41. | 3.1 | 2.9 | 3.0 | 0.09 |
| 24 | 14.44 | 33.440 | 24.891 | 5.91 | 101.7 | 3.2 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | | | | | |
| 32 | 14.43 | 33.439 | 24.893 | 5.92 | 101.9 | 3.1 | 0.32 | 0.2 | 0.00 | 0.23 | 0.05 | 15. | 2.6 | 2.5 | 2.5 | 0.09 |
| 43 | 14.42 | 33.441 | 24.896 | 5.92 | 101.9 | 3.2 | 0.32 | 0.2 | 0.00 | 0.25 | 0.05 | | | | | |
| 51 | 14.31 | 33.454 | 24.930 | 5.92 | 101.6 | 3.1 | 0.33 | 0.2 | 0.00 | 0.40 | 0.09 | 4.9 | 2.3 | 2.3 | 2.3 | 0.06 |
| 58 | 13.94 | 33.447 | 25.002 | 5.84 | 99.5 | 3.6 | 0.38 | 0.9 | 0.03 | 0.55 | 0.15 | | | | | |
| 65 | 13.74 | 33.444 | 25.041 | 5.80 | 98.4 | 3.8 | 0.41 | 1.3 | 0.04 | 0.55 | 0.15 | 2.2 | 1.3 | 1.4 | 1.4 | 0.06 |
| 74 | 12.81 | 33.444 | 25.228 | 5.53 | 92.0 | 5.6 | 0.60 | 4.0 | 0.11 | 0.56 | 0.26 | | | | | |
| 83 | 12.32 | 33.476 | 25.347 | 5.27 | 86.8 | 7.0 | 0.73 | 6.4 | 0.11 | 0.50 | 0.31 | | | | | |
| 91 | 11.33 | 33.476 | 25.532 | 4.90 | 79.0 | 10.0 | 0.97 | 10.2 | 0.05 | 0.27 | 0.25 | 0.46 | 0.16 | 0.12 | 0.14 | 0.04 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 0104

STATION 93 110

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | FOREL | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
|-----------|------------|-----------|-------------|-------------|---------|-----------------|----------|----------|----------|------------------|------------|-----------|----------|------|----------------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | UPTAKE 1 | 2 | MEAN (mg C/m3) | DARK |
| 30 10.7 N | 122 55.3 W | 08/04/01 | 1801 UTC | 25 m | | 1214 - 1901 PST | 1214 PST | | | | | | | | 55.3 mg C/m2 | |
| 2 | 15.32 | 33.566 | 24.797 | 5.77 | 101.2 | 3.0 | 0.29 | 0.2 | 0.00 | 0.10 | 0.03 | 88. A | 0.38 | 0.42 | 0.40 | 0.05 |
| 16 | 15.32 | 33.566 | 24.798 | 5.82 | 102.1 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 37. | 1.2 | 1.3 | 1.2 | 0.06 |
| 25 | 15.32 | 33.566 | 24.798 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.14 U | -0.02 U | | | | | |
| 33 | 15.32 | 33.566 | 24.798 | 5.80 | 101.7 | 2.9 | 0.29 | 0.2 | 0.00 | 0.10 | 0.02 | 13. | 0.96 | 0.96 | 0.96 | 0.05 |
| 42 | 15.32 | 33.566 | 24.799 | 5.77 | 101.2 | 2.9 | 0.29 | 0.2 | 0.00 | 0.13 | 0.00 | | | | | |
| 53 | 15.32 | 33.567 | 24.800 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.15 U | -0.04 U | 3.9 | 0.48 | 0.46 | 0.47 | 0.05 |
| 68 | 15.32 | 33.568 | 24.801 | 5.77 | 101.2 | 2.9 | 0.29 | 0.2 | 0.00 | 0.21 U | -0.04 U | 1.5 | 0.20 | 0.22 | 0.21 | 0.05 |
| 77 | 15.34 | 33.581 | 24.807 | 5.78 | 101.4 | 2.9 | 0.29 | 0.2 | 0.00 | 0.21 U | 0.27 U | | | | | |
| 86 | 15.26 | 33.655 | 24.882 | 5.73 | 100.4 | 2.8 | 0.30 | 0.2 | 0.00 | 0.41 | 0.25 | | | | | |
| 94 | 14.53 | 33.612 | 25.007 | 5.67 | 97.9 | 3.2 | 0.35 | 0.5 | 0.04 | 0.45 | 0.27 | 0.31 | 0.22 | 0.22 | 0.22 | 0.04 |

A) INCUBATION LIGHT INTENSITIES WERE 93, 41, 14, 4.5, 1.8, 0.36 PERCENT RESPECTIVELY.

CalCOFI Cruise 0104

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505mm

| Line | Sta. | Latitude N | Longitude W | Date Mo/Day | Time (PST) | | Water Volume Strained (m ³) | Max. Tow Depth (m) | Volume per 1000 m ³ Strained | |
|------|------|------------|-------------|----------------|------------|------|--|-----------------------|--|--------------------------|
| | | | | | Start | End | | | Total (cm ³) | Small (cm ³) |
| 77 | 49 | 35 05.3 | 120 46.8 | 04/23 | 1014 | 1021 | 158 | 63 | 126 | 126 |
| 77 | 51 | 35 01.3 | 120 55.2 | 04/23 | 0823 | 0844 | 444 | 213 | 218 | 218 |
| 77 | 55 | 34 53.2 | 121 12.0 | 04/23 | 0452 | 0514 | 434 | 212 | 196 | 196 |
| 77 | 60 | 34 43.3 | 121 33.1 | 04/23 | 0017 | 0038 | 472 | 201 | 153 | 153 |
| 77 | 70 | 34 23.2 | 122 14.9 | 04/22 | 1646 | 1708 | 450 | 216 | 91 | 91 |
| 77 | 80 | 34 03.4 | 122 56.8 | 04/22 | 0826 | 0847 | 453 | 218 | 97 | 97 |
| 77 | 90 | 33 43.3 | 123 38.2 | 04/22 | 0052 | 0114 | 480 | 210 | 115 | 115 |
| 77 | 100 | 33 23.2 | 124 19.6 | 04/21 | 1756 | 1818 | 490 | 215 | 31 | 31 |
| 80 | 51 | 34 27.0 | 120 31.3 | 04/19 | 1928 | 1936 | 160 | 70 | 470 | 470 |
| 80 | 55 | 34 19.1 | 120 48.0 | 04/19 | 2246 | 2308 | 452 | 214 | 268 | 268 |
| 80 | 60 | 34 08.9 | 121 09.3 | 04/20 | 0243 | 0305 | 456 | 210 | 217 | 217 |
| 80 | 70 | 33 48.9 | 121 50.7 | 04/20 | 0909 | 0931 | 428 | 217 | 192 | 192 |
| 80 | 80 | 33 29.1 | 122 31.9 | 04/20 | 1654 | 1715 | 474 | 199 | 84 | 84 |
| 80 | 90 | 33 09.1 | 123 13.0 | 04/20 | 2354 | 2416 | 507 | 191 | 120 | 120 |
| 80 | 100 | 32 49.1 | 123 54.3 | 04/21 | 0824 | 0846 | 502 | 211 | 60 | 60 |
| 82 | 47 | 34 16.6 | 120 01.6 | 04/18 | 0114 | 0136 | 438 | 218 | 199 | 199 |
| 83 | 40.6 | 34 13.6 | 119 24.8 | 04/18 | 0539 | 0542 | 80 | 24 | 587 | 587 |
| 83 | 42 | 34 10.7 | 119 30.4 | 04/19 | 1212 | 1227 | 303 | 145 | 446 | 446 |
| 83 | 51 | 33 52.8 | 120 08.2 | 04/17 | 1929 | 1941 | 236 | 114 | 352 | 352 |
| 83 | 55 | 33 44.7 | 120 24.6 | 04/17 | 1615 | 1636 | 465 | 207 | 277 | 277 |
| 83 | 60 | 33 34.6 | 120 45.4 | 04/17 | 1155 | 1216 | 491 | 199 | 189 | 189 |
| 83 | 70 | 33 14.8 | 121 26.6 | 04/17 | 0437 | 0459 | 427 | 213 | 131 | 131 |
| 83 | 80 | 32 54.7 | 122 08.0 | 04/16 | 2240 | 2301 | 434 | 212 | 187 | 187 |
| 83 | 90 | 32 34.7 | 122 48.7 | 04/16 | 1632 | 1655 | 472 | 224 | 125 | 125 |
| 83 | 100 | 32 14.7 | 123 29.4 | 04/16 | 0849 | 0911 | 425 | 210 | 195 | 195 |
| 83 | 110 | 31 54.8 | 124 10.2 | 04/16 | 0356 | 0418 | 440 | 213 | 61 | 61 |
| 87 | 33 | 33 53.4 | 118 29.3 | 04/13 | 1327 | 1332 | 103 | 38 | 222 | 222 |
| 87 | 35 | 33 49.5 | 118 37.6 | 04/13 | 1652 | 1713 | 434 | 214 | 58 | 58 |
| 87 | 40 | 33 39.4 | 118 58.5 | 04/13 | 2108 | 2130 | 442 | 215 | 131 | 81 |
| 87 | 45 | 33 29.4 | 119 18.9 | 04/14 | 0131 | 0152 | 428 | 212 | 348 | 348 |
| 87 | 50 | 33 19.3 | 119 39.7 | 04/14 | 0606 | 0612 | 119 | 49 | 336 | 336 |
| 87 | 55 | 33 09.5 | 120 00.2 | 04/14 | 0907 | 0928 | 448 | 213 | 241 | 241 |
| 87 | 60 | 32 59.6 | 120 20.9 | 04/14 | 1456 | 1517 | 444 | 219 | 56 | 56 |
| 87 | 70 | 32 39.3 | 121 02.0 | 04/14 | 2110 | 2132 | 452 | 214 | 95 | 95 |
| 87 | 80 | 32 19.5 | 121 42.9 | 04/15 | 0320 | 0342 | 440 | 219 | 143 | 143 |
| 87 | 90 | 31 59.3 | 122 23.6 | 04/15 | 0816 | 0838 | 444 | 212 | 61 | 61 |
| 87 | 100 | 31 39.5 | 123 04.2 | 04/15 | 1543 | 1605 | 455 | 211 | 26 | 26 |
| 87 | 110 | 31 19.5 | 123 44.7 | 04/15 | 2147 | 2209 | 457 | 211 | 46 | 46 |
| 90 | 28 | 33 29.1 | 117 46.2 | 04/13 | 0306 | 0327 | 428 | 214 | 157 | 157 |
| 90 | 30 | 33 25.1 | 117 54.4 | 04/13 | 0006 | 0028 | 414 | 216 | 164 | 164 |
| 90 | 35 | 33 15.1 | 118 15.2 | 04/12 | 1956 | 2018 | 455 | 203 | 106 | 106 |
| 90 | 37 | 33 11.1 | 118 23.3 | 04/12 | 1720 | 1742 | 439 | 217 | 52 | 52 |
| 90 | 45 | 32 55.1 | 118 56.2 | 04/12 | 1155 | 1216 | 433 | 217 | 97 | 97 |
| 90 | 53 | 32 39.2 | 119 28.8 | 04/12 | 0435 | 0457 | 458 | 211 | 168 | 168 |
| 90 | 60 | 32 25.1 | 119 57.7 | 04/11 | 2323 | 2345 | 463 | 207 | 108 | 108 |
| 90 | 70 | 32 05.1 | 120 38.4 | 04/11 | 1650 | 1711 | 453 | 211 | 53 | 53 |
| 90 | 80 | 31 44.9 | 121 19.0 | 04/11 | 0847 | 0909 | 489 | 224 | 47 | 47 |
| 90 | 90 | 31 25.1 | 121 59.5 | 04/11 | 0044 | 0106 | 465 | 219 | 24 | 24 |
| 90 | 100 | 31 04.9 | 122 39.3 | 04/10 | 1805 | 1827 | 505 | 212 | 16 | 16 |
| 90 | 110 | 30 45.1 | 123 20.0 | 04/10 | 0900 | 0922 | 502 | 212 | 20 | 20 |
| 90 | 120 | 30 25.1 | 123 59.8 | 04/10 | 0313 | 0334 | 492 | 214 | 26 | 26 |
| 93 | 26.7 | 32 57.3 | 117 18.3 | 04/06 | 1317 | 1323 | 127 | 46 | 95 | 95 |
| 93 | 28 | 32 54.7 | 117 23.7 | 04/06 | 1541 | 1602 | 473 | 210 | 53 | 53 |
| 93 | 30 | 32 50.8 | 117 31.9 | 04/06 | 1845 | 1907 | 457 | 214 | 63 | 52 |
| 93 | 35 | 32 40.9 | 117 52.5 | 04/06 | 2251 | 2313 | 451 | 213 | 93 | 93 |
| 93 | 40 | 32 30.9 | 118 12.9 | 04/07 | 0318 | 0340 | 432 | 217 | 51 | 51 |
| 93 | 45 | 32 20.9 | 118 33.4 | 04/07 | 0800 | 0822 | 468 | 211 | 32 | 32 |
| 93 | 50 | 32 10.7 | 118 53.6 | 04/07 | 1225 | 1246 | 463 | 208 | 35 | 35 |
| 93 | 55 | 32 00.9 | 119 13.8 | 04/07 | 1637 | 1658 | 474 | 204 | 23 | 23 |
| 93 | 60 | 31 51.0 | 119 34.2 | 04/07 | 2232 | 2254 | 460 | 209 | 52 | 52 |
| 93 | 70 | 31 30.8 | 120 14.9 | 04/08 | 0523 | 0544 | 476 | 214 | 42 | 42 |
| 93 | 80 | 31 10.7 | 120 55.2 | 04/08 | 1156 | 1217 | 456 | 214 | 24 | 24 |
| 93 | 90 | 30 50.9 | 121 35.4 | 04/08 | 1800 | 1821 | 454 | 216 | 20 | 20 |
| 93 | 100 | 30 31.0 | 122 15.5 | 04/09 | 0014 | 0036 | 473 | 209 | 34 | 34 |
| 93 | 110 | 30 10.6 | 122 55.1 | 04/09 | 0853 | 0914 | 452 | 213 | 18 | 18 |

FIGURES

Avifauna Observations

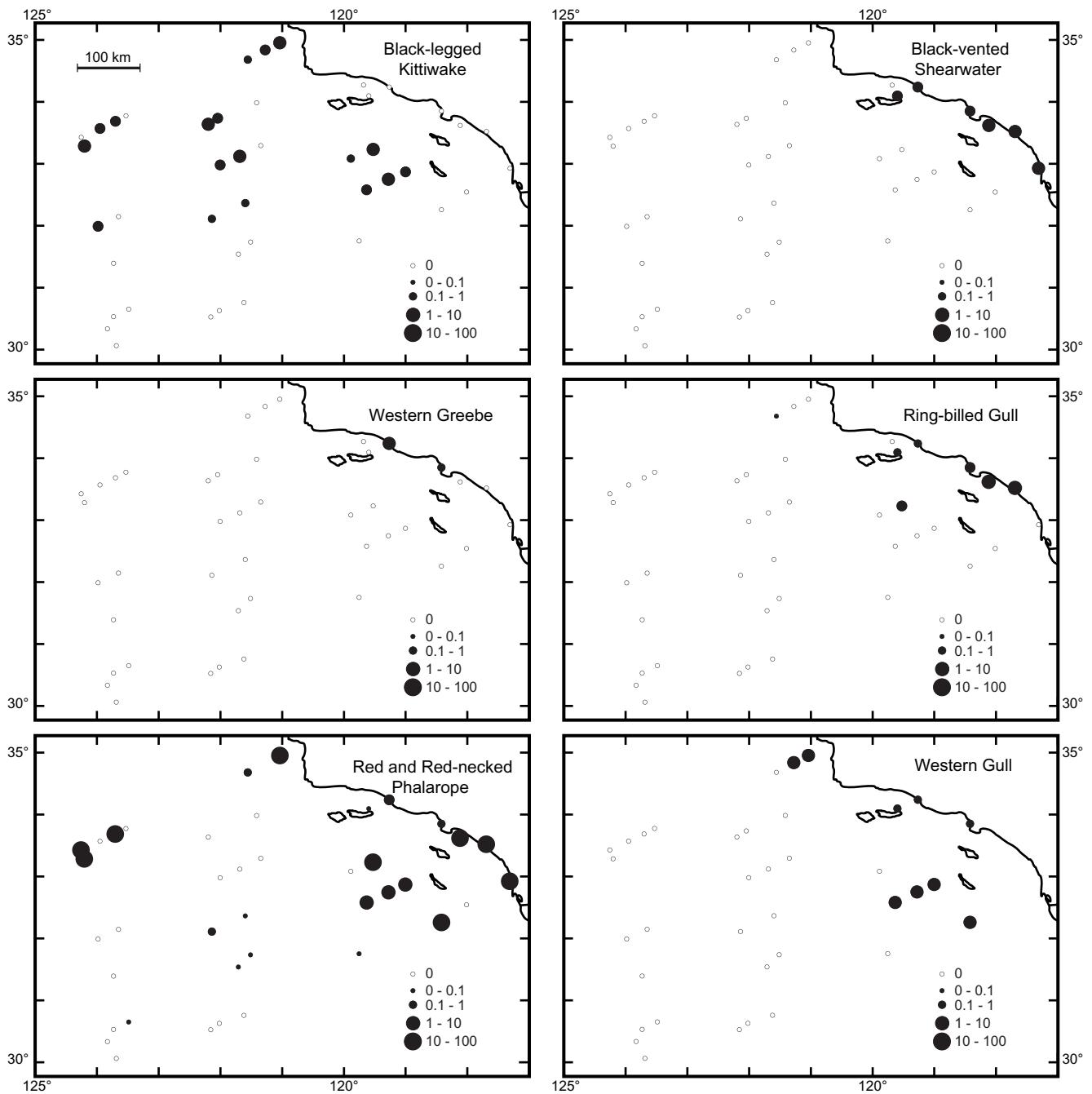
CalCOFI Cruise 0101

- 1a. Red and Red-necked Phalarope distribution.
- 1b. Black-legged Kittiwake distribution.
- 1c. Black-vented Shearwater distribution.
- 1d. Western Gull distribution.
- 1e. Ring-billed Gull distribution.
- 1f. Western Greebe distribution.

CalCOFI Cruise 0104

- 1a. Red and Red-necked Phalarope distribution.
- 1b. Black-legged Kittiwake distribution.
- 1c. Sooty Shearwater distribution.
- 1d. Western Gull distribution.
- 1e. Leach's Storm-petrel distribution.
- 1f. Northern Fulmar distribution.

CalCOFI Cruise 0101



CalCOFI Cruise 0104

