

UNIVERSITY OF CALIFORNIA, SAN DIEGO SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

CalCOFI Cruise 8703
2 – 17 March 1987

CalCOFI Cruise 8705
30 April – 14 May 1987

SIO Reference 87-19
14 August 1987

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Approved for distribution:


Edward A. Frieman
Edward A. Frieman, Director

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INTRODUCTION

The data in this report were collected during Cruises 8703*, and 8705 of the California Cooperative Oceanic Fisheries Investigations (CALCOFI) aboard the *RV David Starr Jordan* of the National Marine Fisheries Service (NMFS). The CALCOFI program was organized in the late 1940s to study the causes of variations in population size of fishes of importance to the State of California. It is carried out by the National Marine Fisheries Service Southwest Fisheries Center, the California Department of Fish and Game, and the Marine Life Research Group (MLRG) of the 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 CALCOFI cruises 8703 and 8705 were collected and processed by personnel of the Marine Life Research Group and the Southwest Fisheries Center, National Marine Fisheries Service. Volunteers and other SIO staff members also assisted in the collection of data at sea.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts usually consisted of 20 bottles lowered to a maximum sampling depth of 525 meters, bottom depth permitting. Several types of sampler bottles were used on the two cruises: 1.25 l epoxy lined Nansen bottles, 5 l Niskin bottles, and an experimental 3 l plastic bottle. The experimental bottles pre-tripped with considerable loss of data on station 93.28, Cruise 8703, and were not used for the rest of the cruise. After modification, the experimental bottles were used more extensively on Cruise 8705, but the malfunction rate and data loss remained higher than is typical of older types of samplers. Development of a new sampler designed to combine the requirements for hydrographic, productivity, microzooplankton, and rosette cast sampling continues.

Temperature, salinity, oxygen and nutrients were determined for all depths sampled. Chlorophyll-a and phaeopigments were usually determined from the top 14 depths. Productivity casts were merged with the hydrographic casts on some stations. Special near-bottom casts were done in the Santa Monica and Santa Barbara Basins.

Paired protected reversing thermometers were used to determine temperatures which are recorded to hundredths of a degree Celsius. Sampling bottles used below a depth of about 75 meters were equipped with unprotected thermometers for determination of the depth of sampling, using the Saunders (1981) pressure-to-depth conversion technique.

Salinity samples were analyzed at sea using inductive-type salinometers. Salinometers were standardized with substandard seawater. Periodic checks on the concentration of the substandard were made by comparison with Wormley Standard Seawater batch P-96. The salinity values are reported to three decimal places.

Dissolved oxygen was determined 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).

Silicate, phosphate, nitrate and nitrite nutrients were determined at sea using an automated analyzer. The procedures used are similar to those described in Atlas *et al.* (1971).

Chlorophyll-a and phaeopigments were measured with a fluorometric technique (Yentsch and Menzel, 1963; Holm-Hansen *et al.*, 1965) from subsamples filtered onto GF/C 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.

The observed data have been evaluated using the methodology described by Klein (1973). This involves consideration of their variation as functions of density or depth and their relations to each other, and comparisons with adjacent observations.

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

Primary Productivity Casts

Primary production was estimated from 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). Six depths, corresponding to predetermined levels of light penetration, were sampled with 5 l Niskin bottles. Temperature, salinity, oxygen, nutrients, chlorophyll-a, and phaeopigments were determined for all depths sampled. Triplicate samples (two light and one dark control) were drawn from each depth into 250 ml polycarbonate incubation bottles which were innoculated with approximately 10 uCi of C as NaHCO₃. These were incubated approximately from local apparent noon to civil twilight in seawater-cooled incubators with neutral-density screens which simulate the *in situ* light levels. At the end of the incubation, the samples were filtered onto HA milipore 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.

Macrozooplankton Net Tows

Macrozooplankton was sampled with a 71 cm mouth diameter paired net (bongo net) equipped with 0.505 mm plankton mesh. Bottom depth permitting, the nets were towed obliquely from 210 m 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).

TABULATED DATA

Hydrographic Cast Data

The reported hydrographic cast time is the Greenwich Mean Time (GMT) of the messenger release. 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.

Observed and interpolated standard depth data from hydrographic casts have been interspersed and are presented together sequentially by depth. Interpolated or extrapolated standard level data are noted by the footnote "ISL" printed after the depth. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (EOS80, UNESCO, 1981). Computed values of potential temperature, sigma-theta, specific volume anomaly (SVA), dynamic height or geopotential anomaly, and pressure are included with both observed and interpolated standard depth levels.

Primary Productivity Casts

In addition to the normal hydrographic data, the tabulated data include: the light levels at which the samples were incubated, 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, the dark uptake, chlorophyll-a and phaeopigments. The uptake values shown are the total for the incubation period. The times of local apparent noon (LAN), civil twilight, and the vertically integrated value of the mean uptake from the surface to the deepest sample depth (assuming that the shallowest measured value extends to the surface and that negative values are zero) are also shown for each experiment. The uptake data have been presented to two significant digits (values <1.00) or one decimal (values >1.00). 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 GMT, add eight hours to the PST time.

Secchi Disk Observations

Secchi disk observations were made on most daylight stations. The times are given in local PST (+8) time. Weather codes and cloud observations are also presented.

Macrozooplankton Data

Macrozooplankton biomass volumes are tabulated as total biomass volume (cm/1000 m strained) and as the total volume minus the volume of larger organisms under the heading "Small."

FOOTNOTES

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

ISL: After depth values indicates interpolated or extrapolated standard level.

P: After depth values indicates the bottle posttrippled.

U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason.

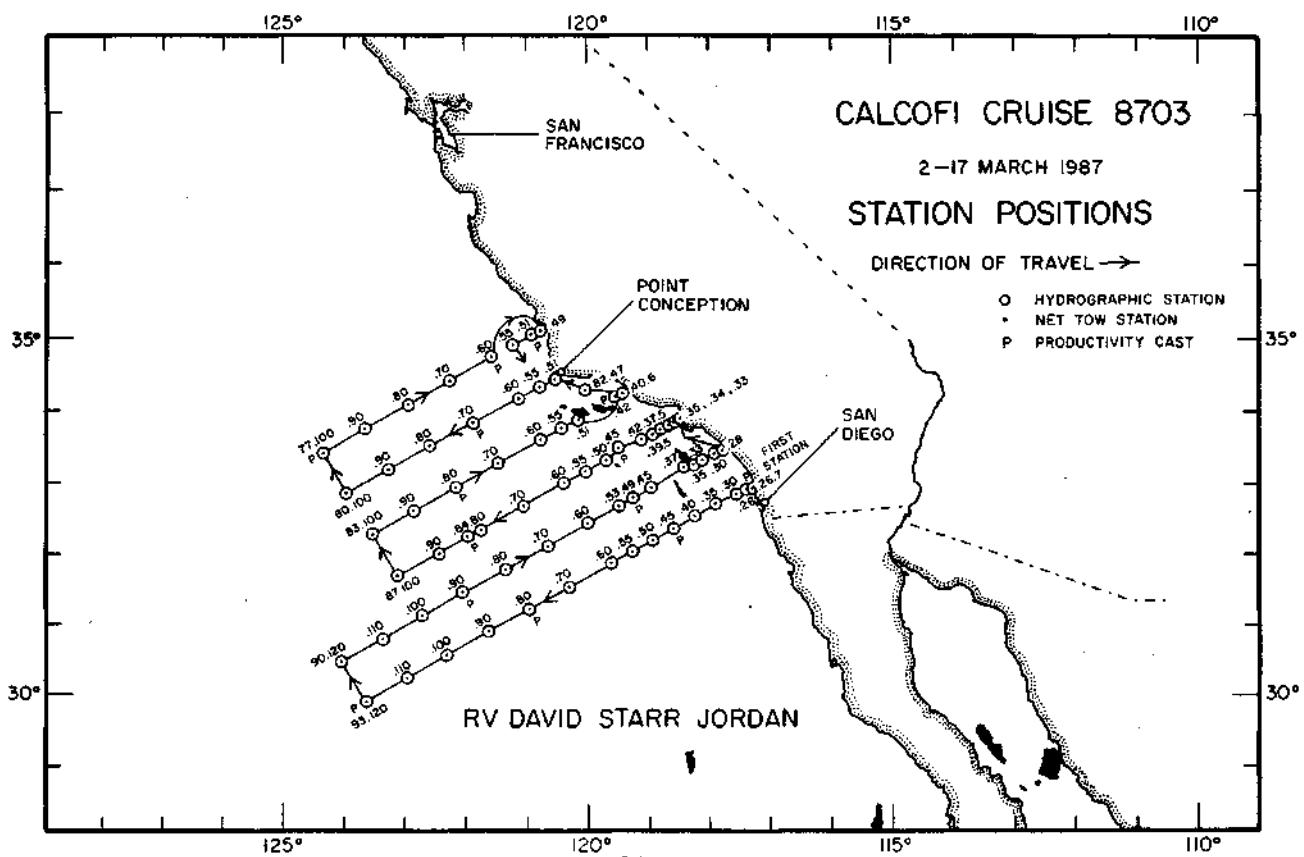
LITERATURE CITED

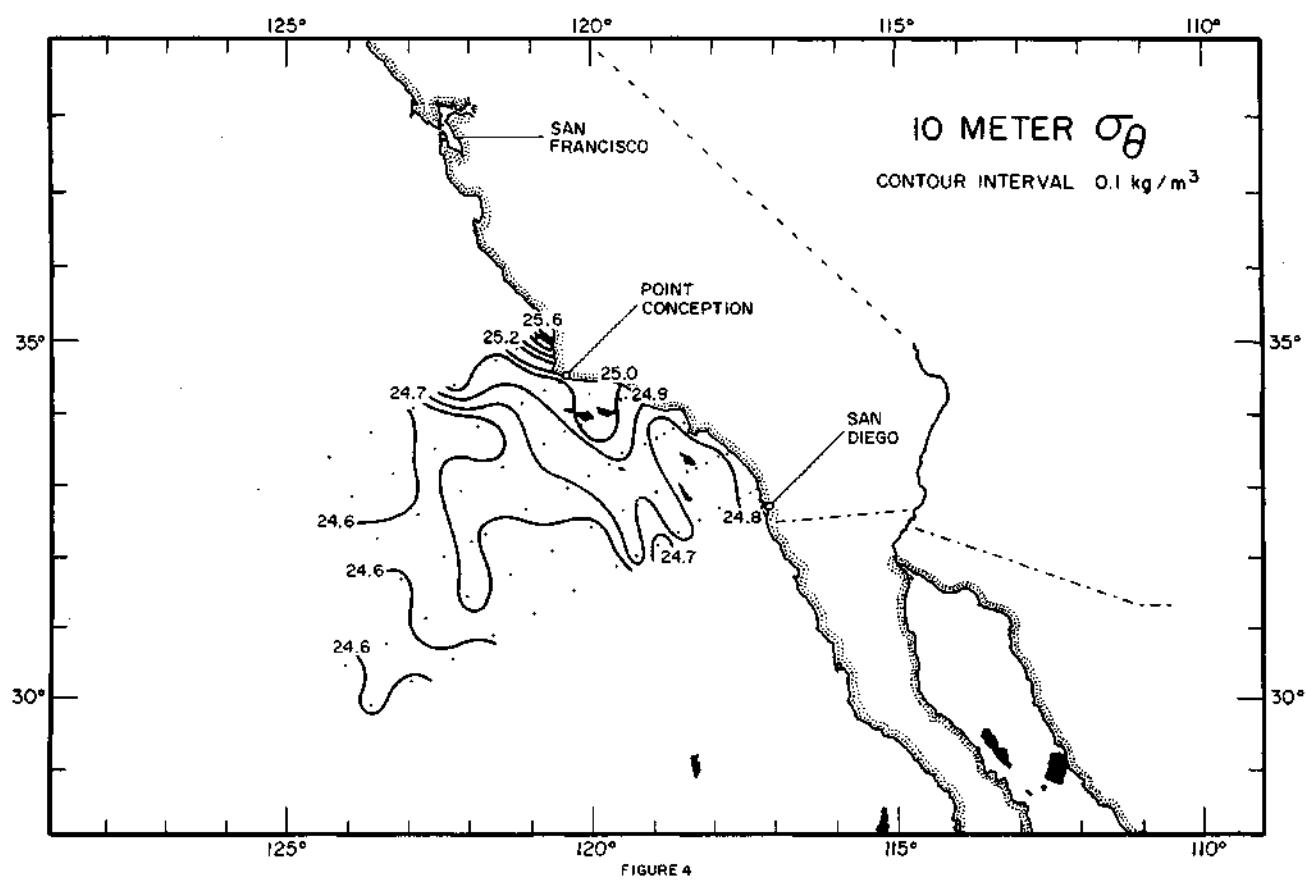
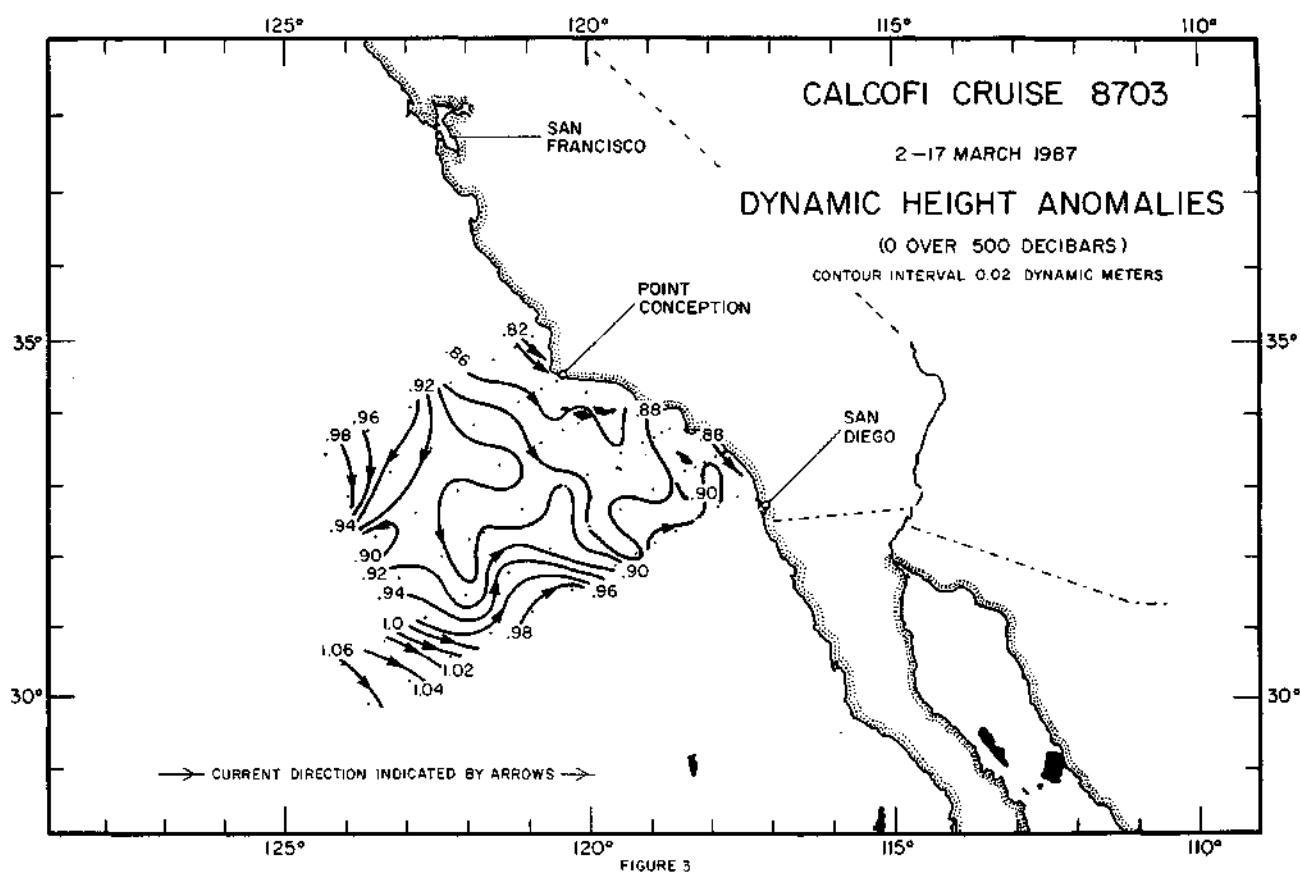
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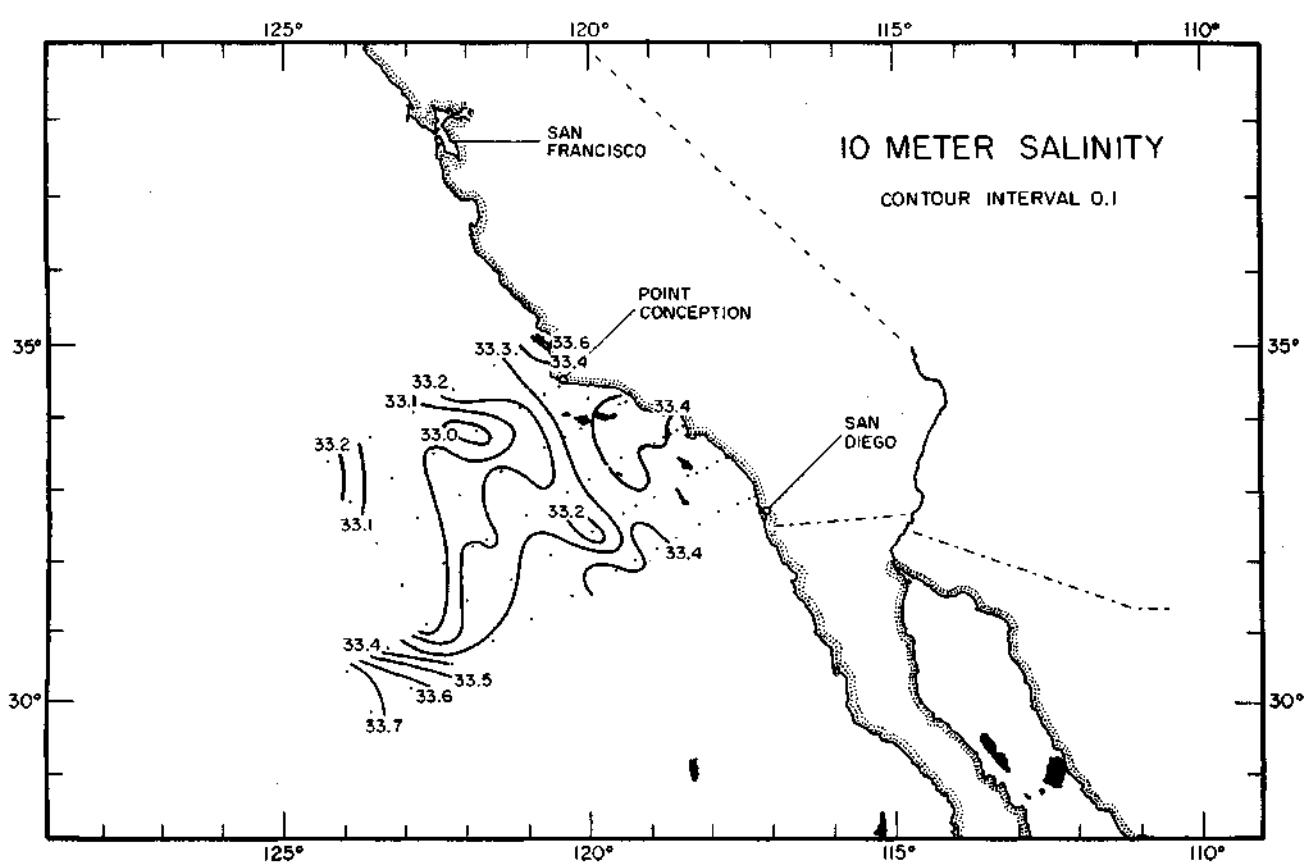
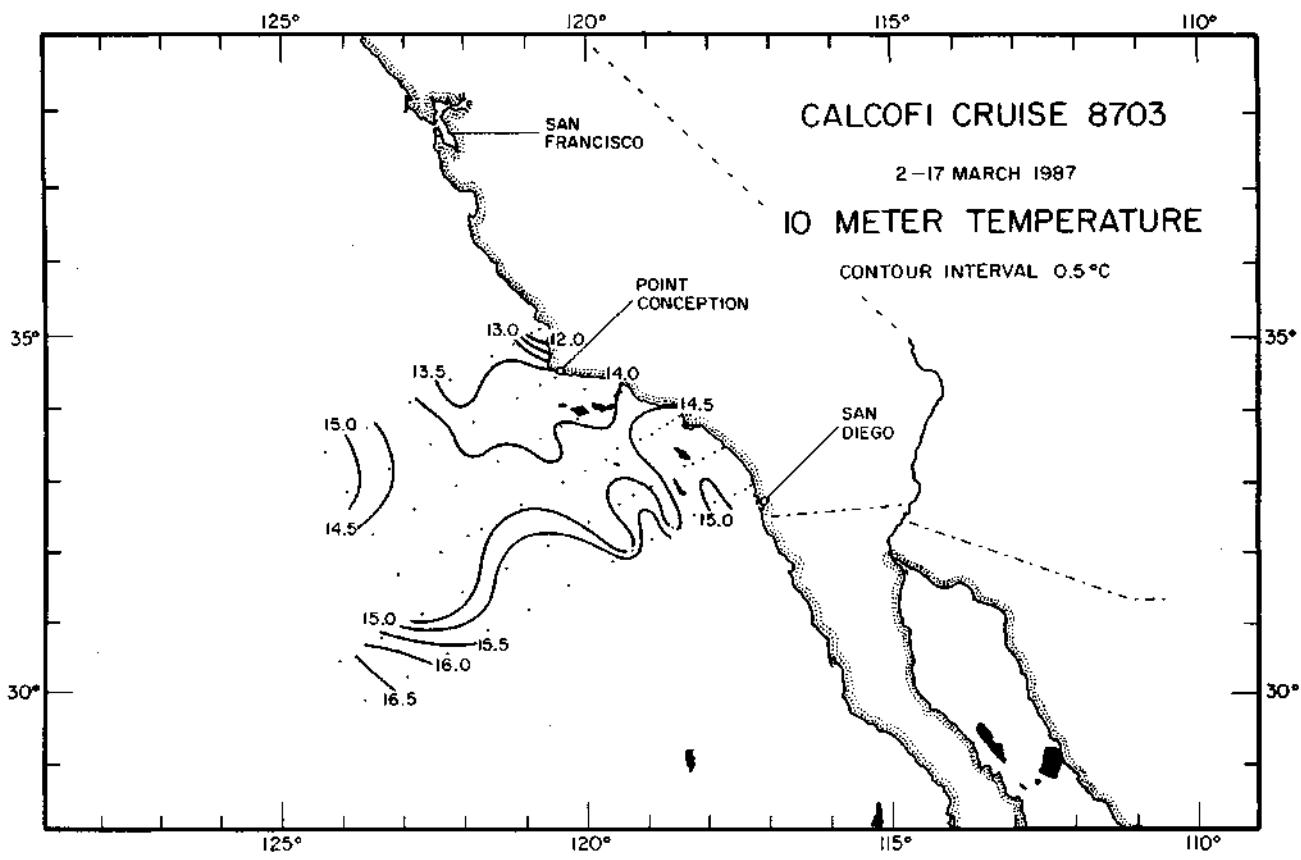
FIGURES

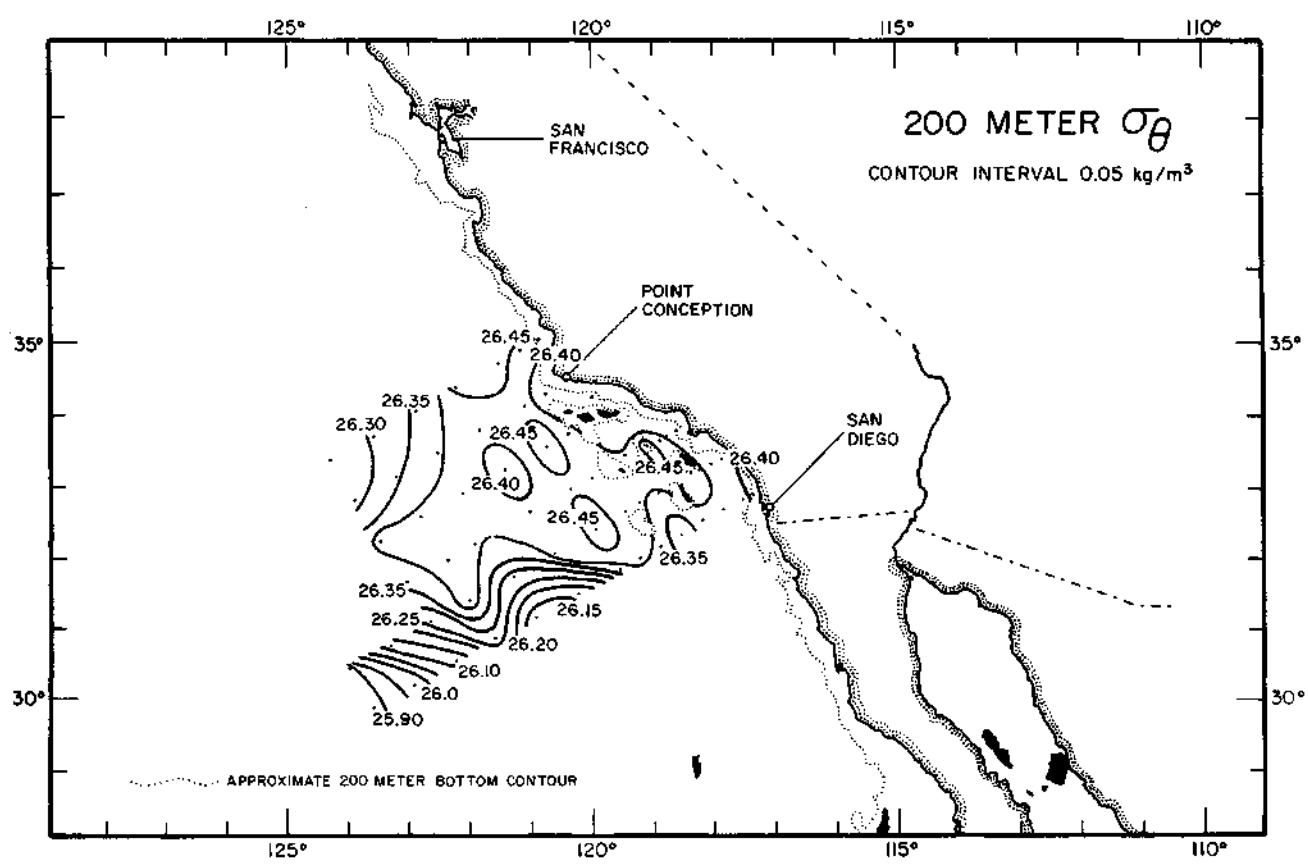
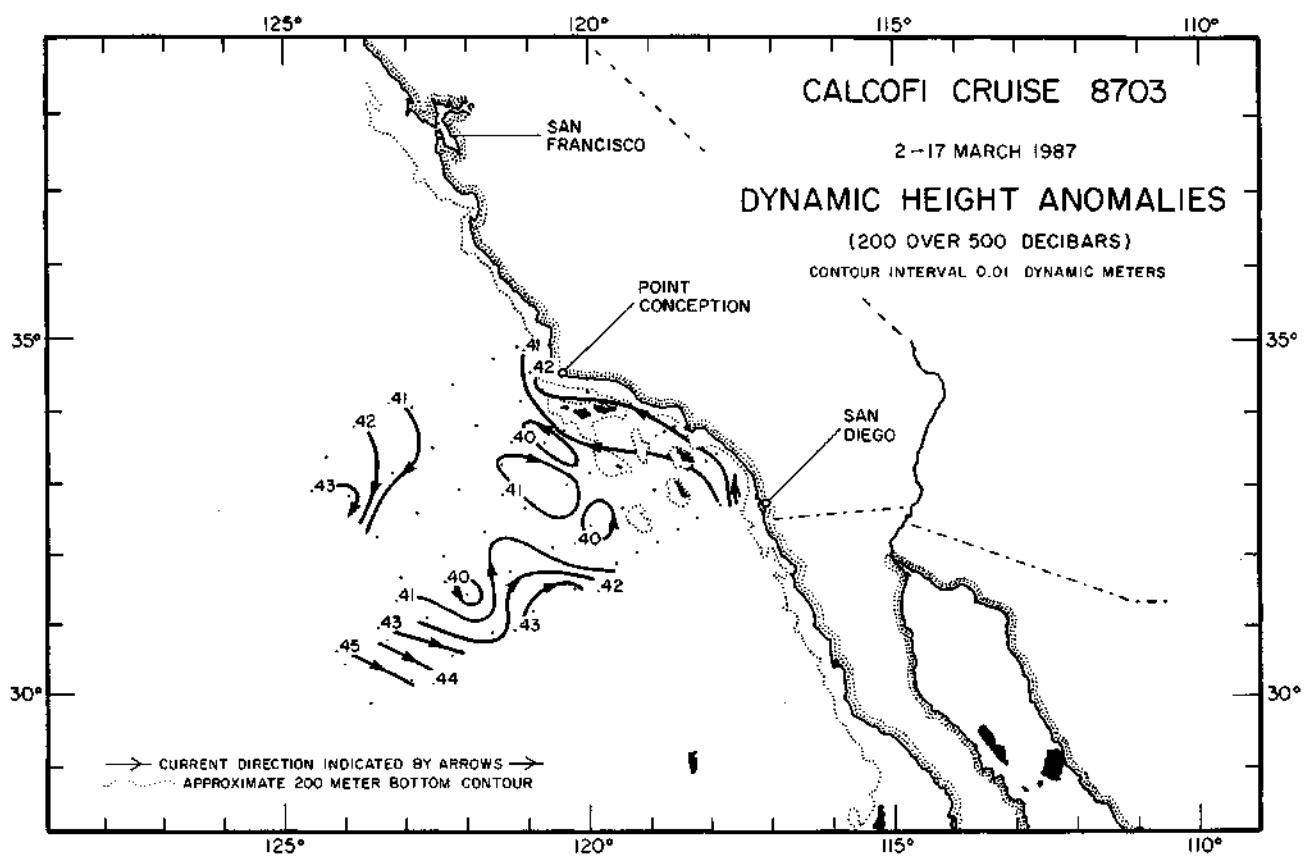
Cruise 8703

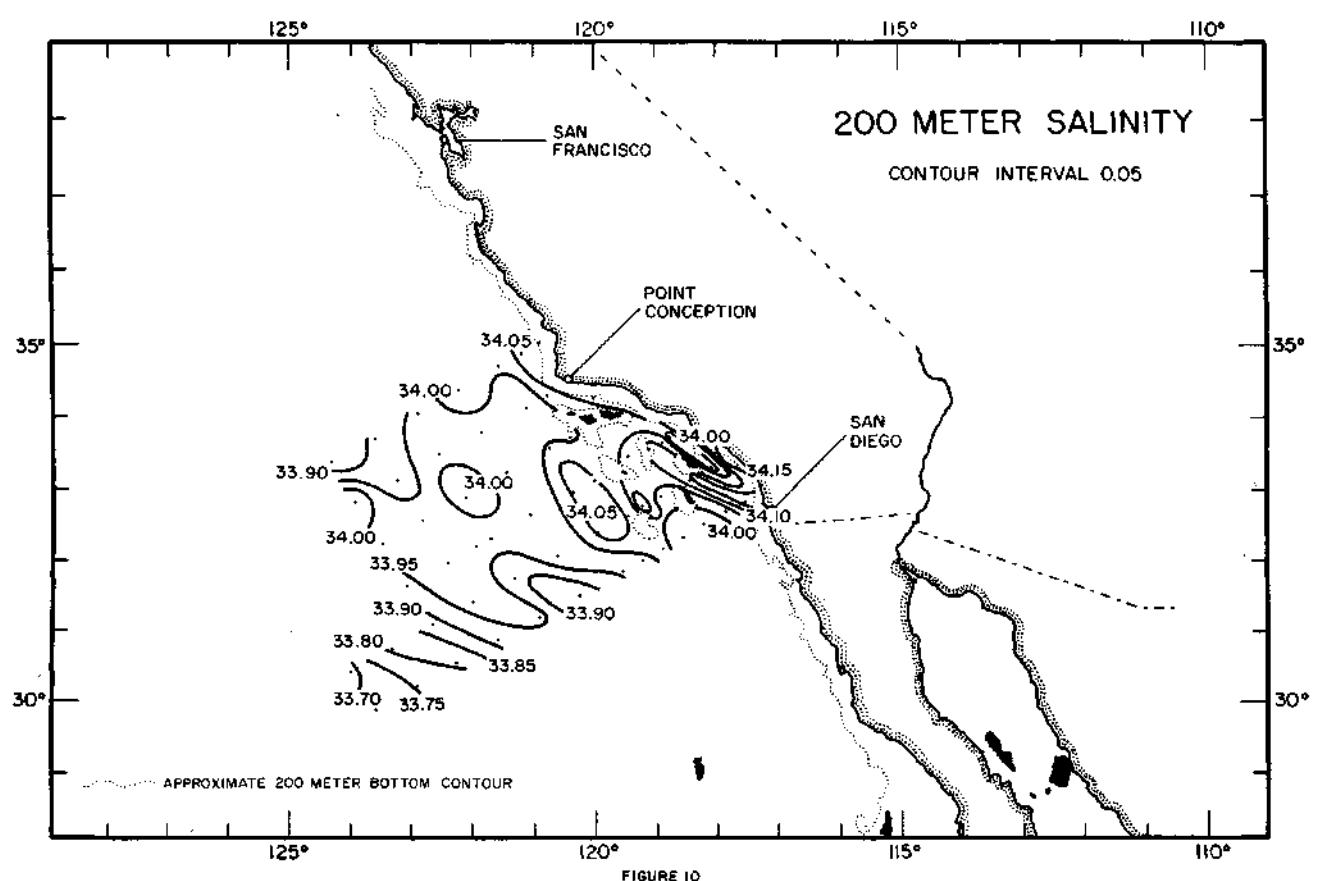
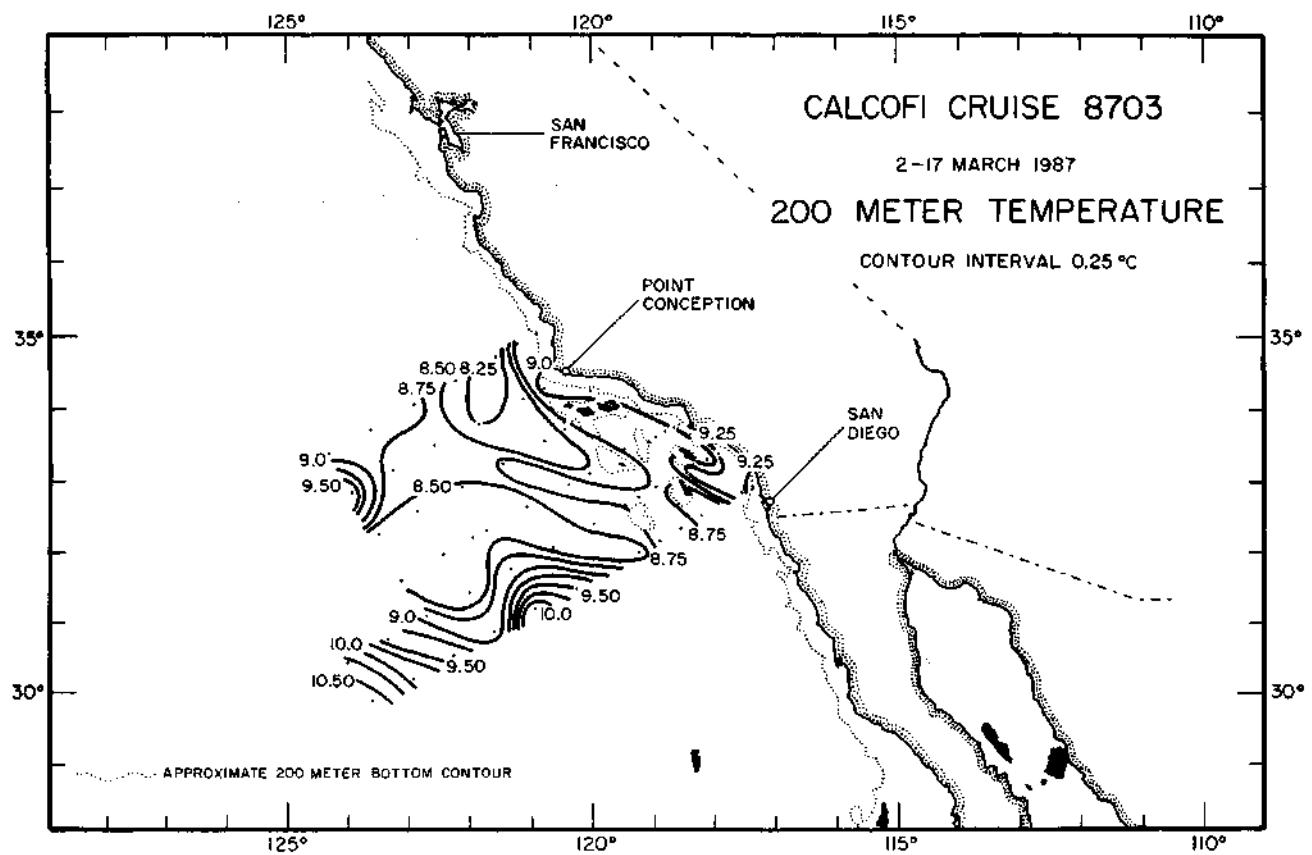
1. CalCOFI Cruise 8703 track and station positions.
2. Horizontal distribution of chlorophyll-a at 10 meters.
3. Horizontal distribution of dynamic height anomaly (0 over 500 m). In areas shallower than 500 m, the dynamic heights were extrapolated on the basis of the offshore deeper steric height as described in Reid and Mantyla (1976).
4. Horizontal distribution of sigma-theta at 10 meters.
5. Horizontal distribution of temperature at 10 meters.
6. Horizontal distribution of salinity at 10 meters.
7. Horizontal distribution of dynamic height anomaly (200 over 500 m).
8. Horizontal distribution of sigma-theta at 200 meters.
9. Horizontal distribution of temperature at 200 meters.
10. Horizontal distribution of salinity at 200 meters.











PERSONNEL

Cruise 8703

SHIP'S CAPTAIN

Milton Roll, RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | | <i>Participation (Leg)</i> |
|----------------------------------|-------------------------------------|----------------------------|
| Flerx, William C. (in charge) | Fishery Biologist, NMFS | I, II |
| Ambrose, David A. | Fishery Biologist, NMFS | I, II |
| Anderson, George C. | Staff Research Associate, SIO | I, II |
| Bryan, Walter R. | Marine Technician, SIO | I, II |
| Deibert, Mark C. | Volunteer, SIO | I |
| Dotson, Ronald C. | Fishery Biologist, NMFS | I, II |
| Escamilla, Abraham | Student, CICESE | II |
| Garcia, Alberto | Marine Biologist, IEO, Spain | I |
| Gripp, Sherry L. | Staff Res. Assoc./Marine Tech., SIO | I, II |
| Gruber, Dennis W. | Marine Technician, SIO | I, II |
| Guanes, Rodolfo | Student, CICESE | II |
| Jacobson, Susan | Computer Programmer, NMFS | II |
| Meyer, Cindy A. | Computer Programmer, NMFS | I |
| Miranda, Ana Maria | Marine Biologist, IEO, Spain | I, II |
| Theilacker, Gail H. | Fishery Biologist, NMFS | I, II |
| Wilkinson, James | Staff Research Associate | I, II |

Leg I: San Diego to Dana Point, CA, March 2-8, 1987.

Leg II: Dana Point to San Diego, CA, March 8-17, 1987.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 49

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 35 5.3 N | 120 46.6 W | 16/03/87 | 1656 GMT | 75 M | 250 07 KT | 270 06 07 | 0 | 1016.9 MB | 13.9 C | 10.9 C | 1/8 | CI | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG / L | D.BAR |
| 1 | 0 ISL | 11.33 | 11.33 | 33.638 | 25.656 | 232.4 | 0.000 | 4.61 | 74.4 | 16.9 | 1.39 | 14.0 | 0.23 | 0.89 | 0.52 | 0 |
| 1 | 1 | 11.33 | 11.33 | 33.638 | 25.656 | 232.4 | 0.002 | 4.61 | 74.4 | 16.9 | 1.39 | 14.0 | 0.23 | 0.89 | 0.52 | 1 |
| 1 | 10 ISL | 11.23 | 11.23 | 33.648 | 25.682 | 230.1 | 0.023 | 4.56 | 73.5 | 17.5 | 1.40 | 14.7 | 0.23 | 0.76 | 0.59 | 10 |
| 1 | 11 | 11.21 | 11.21 | 33.650 | 25.687 | 229.7 | 0.025 | 4.55 | 73.3 | 17.6 | 1.40 | 14.8 | 0.23 | 0.73 | 0.60 | 11 |
| 1 | 20 ISL | 10.98 | 10.98 | 33.676 | 25.749 | 224.0 | 0.046 | 4.20 | 67.3 | 18.8 | 1.54 | 16.1 | 0.21 | 0.48 | 0.65 | 20 |
| 1 | 21 | 10.95 | 10.95 | 33.680 | 25.757 | 223.2 | 0.048 | 4.15 | 66.5 | 19.0 | 1.56 | 16.3 | 0.21 | 0.45 | 0.66 | 21 |
| 1 | 30 ISL | 10.49 | 10.49 | 33.742 | 25.887 | 211.1 | 0.068 | 3.48 | 55.2 | 22.2 | 1.67 | 19.6 | 0.14 | 0.14 | 0.45 | 30 |
| 1 | 32 | 10.38 | 10.38 | 33.758 | 25.918 | 208.2 | 0.072 | 3.34 | 52.9 | 23.0 | 1.69 | 20.4 | 0.13 | 0.08 | 0.40 | 32 |
| 1 | 42 | 10.07 | 10.07 | 33.817 | 26.017 | 198.9 | 0.092 | 3.06 | 48.1 | 25.4 | 1.80 | 22.3 | 0.10 | 0.07 | 0.35 | 42 |
| 1 | 50 ISL | 9.81 | 9.80 | 33.876 | 26.107 | 190.5 | 0.108 | 2.77 | 43.3 | 27.7 | 1.92 | 24.0 | 0.07 | 0.05 | 0.31 | 50 |
| 1 | 52 | 9.75 | 9.74 | 33.890 | 26.128 | 188.6 | 0.112 | 2.70 | 42.2 | 28.3 | 1.95 | 24.4 | 0.06 | 0.04 | 0.30 | 52 |
| 1 | 62 | 9.57 | 9.56 | 33.933 | 26.192 | 182.8 | 0.130 | 2.46 | 38.3 | 30.8 | 2.02 | 25.6 | 0.09 | 0.03 | 0.29 | 62 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 35 1.3 N | 120 55.1 W | 16/03/87 | 1857 GMT | 243 M | 320 15 KT | 330 08 09 | 1 | 1016.5 MB | 13.2 C | 11.1 C | 1/8 | CU | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG / L | D.BAR |
| 1 | 0 ISL | 11.98 | 11.98 | 33.495 | 25.425 | 254.3 | 0.000 | 5.34 | 87.4 | 10.4 | 1.13 | 8.9 | 0.22 | 1.24 | 0.33 | 0 |
| 1 | 2 | 11.98 | 11.98 | 33.495 | 25.425 | 254.4 | 0.005 | 5.34 | 87.4 | 10.4 | 1.13 | 8.9 | 0.22 | 1.24 | 0.33 | 2 |
| 1 | 10 ISL | 11.94 | 11.94 | 33.494 | 25.431 | 254.0 | 0.025 | 5.36 | 87.6 | 10.3 | 1.17 | 8.9 | 0.21 | 1.16 | 0.41 | 10 |
| 1 | 11 | 11.93 | 11.93 | 33.494 | 25.433 | 253.8 | 0.028 | 5.36 | 87.6 | 10.3 | 1.17 | 8.9 | 0.21 | 1.15 | 0.42 | 11 |
| 1 | 20 ISL | 11.91 | 11.91 | 33.498 | 25.440 | 253.4 | 0.051 | 5.27 | 86.1 | 10.5 | 1.09 | 9.4 | 0.20 | 1.17 | 0.37 | 20 |
| 1 | 21 | 11.91 | 11.91 | 33.499 | 25.441 | 253.3 | 0.053 | 5.26 | 85.9 | 10.5 | 1.08 | 9.4 | 0.20 | 1.17 | 0.36 | 21 |
| 1 | 30 ISL | 11.43 | 11.43 | 33.586 | 25.598 | 238.6 | 0.075 | 4.47 | 72.3 | 14.9 | 1.25 | 13.6 | 0.13 | 0.34 | 0.31 | 30 |
| 1 | 32 | 11.30 | 11.30 | 33.611 | 25.641 | 234.6 | 0.080 | 4.26 | 68.7 | 16.1 | 1.31 | 14.7 | 0.11 | 0.16 | 0.30 | 32 |
| 1 | 40 | 10.84 | 10.84 | 33.690 | 25.785 | 221.0 | 0.098 | 3.69 | 59.0 | 19.6 | 1.53 | 18.0 | 0.02 | 0.09 | 0.23 | 40 |
| 1 | 50 | 10.75 | 10.74 | 33.702 | 25.811 | 218.8 | 0.120 | 3.60 | 57.4 | 20.1 | 1.54 | 18.5 | 0.01 | 0.09 | 0.22 | 50 |
| 1 | 60 | 10.46 | 10.45 | 33.750 | 25.899 | 210.7 | 0.142 | 3.35 | 53.1 | 22.0 | 1.68 | 20.3 | 0.01 | 0.08 | 0.20 | 60 |
| 1 | 70 | 9.95 | 9.94 | 33.860 | 26.072 | 194.3 | 0.162 | 2.86 | 44.9 | 26.4 | 1.85 | 23.5 | 0.01 | 0.03 | 0.15 | 71 |
| 1 | 75 ISL | 9.80 | 9.79 | 33.895 | 26.124 | 189.5 | 0.172 | 2.71 | 42.4 | 28.0 | 1.92 | 24.5 | 0.01 | 0.03 | 0.16 | 76 |
| 1 | 82 | 9.64 | 9.63 | 33.931 | 26.179 | 184.4 | 0.185 | 2.56 | 39.9 | 29.9 | 2.01 | 25.4 | 0.01 | 0.03 | 0.18 | 83 |
| 1 | 100 ISL | 9.29 | 9.28 | 33.992 | 26.284 | 174.7 | 0.217 | 2.29 | 35.4 | 34.2 | 2.13 | 27.0 | 0.01 | 0.02 | 0.15 | 101 |
| 1 | 101 | 9.28 | 9.27 | 33.994 | 26.288 | 174.5 | 0.219 | 2.28 | 35.3 | 34.4 | 2.13 | 27.1 | 0.01 | 0.02 | 0.15 | 102 |
| 1 | 121 | 9.18 | 9.17 | 34.026 | 26.329 | 170.9 | 0.253 | 2.22 | 34.3 | 34.6 | 2.19 | 27.6 | 0.01 | 0.02 | 0.12 | 122 |
| 1 | 125 ISL | 9.18 | 9.17 | 34.031 | 26.333 | 170.6 | 0.260 | 2.21 | 34.1 | 34.7 | 2.19 | 27.7 | 0.01 | 0.02 | 0.11 | 126 |
| 1 | 140 | 9.14 | 9.12 | 34.045 | 26.351 | 169.2 | 0.286 | 2.18 | 33.6 | 35.1 | 2.18 | 27.9 | 0.00 | 0.01 | 0.10 | 141 |
| 1 | 150 ISL | 9.02 | 9.00 | 34.058 | 26.380 | 166.6 | 0.303 | 2.10 | 32.3 | 36.6 | 2.22 | 28.3 | 0.02 | 0.01 | 0.11 | 151 |
| 1 | 170 | 8.79 | 8.77 | 34.079 | 26.433 | 162.0 | 0.335 | 1.93 | 29.5 | 39.7 | 2.31 | 29.2 | 0.06 | 0.02 | 0.14 | 171 |
| 1 | 200 ISL | 8.78 | 8.76 | 34.082 | 26.437 | 162.1 | 0.384 | 1.93 | 29.5 | 39.9 | 2.30 | 29.4 | 0.06 | 0.01 | 0.15 | 202 |
| 1 | 202 | 8.78 | 8.76 | 34.082 | 26.437 | 162.2 | 0.387 | 1.93 | 29.5 | 39.9 | 2.30 | 29.4 | 0.06 | 0.01 | 0.15 | 204 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 34 53.3 N | 121 11.9 W | 16/03/87 | 2320 GMT | 575 M | 320 27 KT | 330 11 07 | 1 | 1015.9 MB | 14.1 C | 11.5 C | 6/8 | AS | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG / L | D.BAR |
| 1 | 0 ISL | 13.04 | 13.04 | 33.363 | 25.117 | 283.6 | 0.000 | 6.10 | 102.0 | 2.7 | 0.50 | 1.8 | 0.11 | 1.33 | 0.58 | 0 |
| 1 | 1 | 13.04 | 13.04 | 33.363 | 25.117 | 283.6 | 0.003 | 6.10 | 102.0 | 2.7 | 0.50 | 1.8 | 0.11 | 1.33 | 0.58 | 1 |
| 1 | 10 ISL | 13.05 | 13.05 | 33.362 | 25.115 | 284.1 | 0.028 | 6.18 | 103.3 | 2.9 | 0.50 | 1.8 | 0.11 | 1.41 | 0.67 | 10 |
| 1 | 12 | 13.05 | 13.05 | 33.362 | 25.115 | 284.1 | 0.034 | 6.20 | 103.7 | 2.9 | 0.50 | 1.8 | 0.11 | 1.42 | 0.68 | 12 |
| 1 | 20 ISL | 13.02 | 13.02 | 33.363 | 25.122 | 283.7 | 0.057 | 6.12 | 102.3 | 3.0 | 0.51 | 1.9 | 0.12 | 1.28 | 0.51 | 20 |
| 1 | 21 | 13.02 | 13.02 | 33.363 | 25.122 | 283.7 | 0.060 | 6.10 | 101.9 | 3.0 | 0.51 | 1.9 | 0.12 | 1.26 | 0.49 | 21 |
| 1 | 30 ISL | 12.75 | 12.75 | 33.365 | 25.177 | 278.7 | 0.085 | 5.84 | 97.0 | 4.3 | 0.61 | 3.5 | 0.14 | 1.08 | 0.63 | 30 |
| 1 | 32 | 12.68 | 12.68 | 33.366 | 25.191 | 277.4 | 0.090 | 5.78 | 95.9 | 4.6 | 0.63 | 3.9 | 0.15 | 1.06 | 0.67 | 32 |
| 1 | 41 | 12.58 | 12.57 | 33.374 | 25.217 | 275.2 | 0.115 | 5.71 | 94.5 | 5.1 | 0.67 | 4.5 | 0.18 | 1.17 | 0.56 | 41 |
| 1 | 50 | 12.36 | 12.35 | 33.385 | 25.268 | 270.5 | 0.140 | 5.52 | 91.0 | 6.3 | 0.75 | 5.9 | 0.22 | 0.85 | 0.46 | 50 |
| 1 | 61 | 11.46 | 11.45 | 33.465 | 25.499 | 248.8 | 0.168 | 4.72 | 76.3 | 11.5 | 1.10 | 12.1 | 0.14 | 0.13 | 0.31 | 61 |
| 1 | 71 | 11.08 | 11.07 | 33.507 | 25.601 | 239.3 | 0.193 | 4.43 | 71.1 | 13.4 | 1.24 | 14.1 | 0.07 | 0.10 | 0.23 | 72 |
| 1 | 75 ISL | 10.85 | 10.84 | 33.551 | 25.676 | 232.2 | 0.202 | 4.23 | 67.5 | 15.0 | 1.33 | 15.6 | 0.05 | 0.08 | 0.21 | 76 |
| 1 | 85 | 10.34 | 10.33 | 33.662 | 25.851 | 215.7 | 0.225 | 3.75 | 59.2 | 18.9 | 1.53 | 19.0 | 0.01 | 0. | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 60

| LATITUDE 34 A3.3 N | LONGITUDE 121 32.9 W | DAY/MO/YR 15/03/87 | MESSANGER 1834 | GMT | BOTTOM 982 M | WIND 320 | SPEED 24 KT | WAVES 330 15 10 | WEATHER 1 | BAROMETER 1013.7 MB | DRY 13.0 C | WET 10.5 C | CLOUD 5/8 | AMT | TYPE | |
|-----------------------|-------------------------|-----------------------|-------------------|----------|-----------------|-------------|----------------|--------------------|--------------|------------------------|---------------|---------------|--------------|---------------|----------------|----------------|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAEAO UG/L | PRESS D.BAR |
| 1 | 0 ISL | 13.46 | 13.46 | 33.277 | 24.967 | 297.9 | 0.000 | 6.11 | 103.0 | 2.7 | 0.43 | 0.8 | 0.04 | 0.61 | 0.18 | 0 |
| 1 | 1 | 13.46 | 13.46 | 33.277 | 24.967 | 298.0 | 0.003 | 6.11 | 103.0 | 2.7 | 0.43 | 0.8 | 0.04 | 0.61 | 0.18 | 1 |
| 1 | 10 ISL | 13.46 | 13.46 | 33.276 | 24.966 | 298.2 | 0.030 | 6.18 | 104.2 | 2.7 | 0.44 | 0.7 | 0.04 | 0.72 | 0.22 | 10 |
| 1 | 11 | 13.46 | 13.46 | 33.276 | 24.966 | 298.3 | 0.033 | 6.19 | 104.3 | 2.7 | 0.44 | 0.7 | 0.04 | 0.73 | 0.23 | 11 |
| 1 | 20 ISL | 13.47 | 13.47 | 33.278 | 24.966 | 298.5 | 0.060 | 6.15 | 103.7 | 2.4 | 0.43 | 0.8 | 0.04 | 0.73 | 0.20 | 20 |
| 1 | 22 | 13.47 | 13.47 | 33.278 | 24.966 | 298.6 | 0.066 | 6.14 | 103.5 | 2.3 | 0.43 | 0.8 | 0.04 | 0.73 | 0.19 | 22 |
| 1 | 30 ISL | 13.46 | 13.46 | 33.279 | 24.969 | 298.5 | 0.090 | 6.10 | 102.8 | 2.3 | 0.43 | 0.7 | 0.04 | 0.72 | 0.22 | 30 |
| 1 | 33 | 13.46 | 13.46 | 33.279 | 24.969 | 298.6 | 0.098 | 6.09 | 102.6 | 2.3 | 0.43 | 0.7 | 0.04 | 0.71 | 0.24 | 33 |
| 1 | 43 | 13.06 | 13.05 | 33.343 | 25.099 | 286.5 | 0.128 | 5.85 | 97.8 | 3.7 | 0.58 | 3.0 | 0.17 | 0.70 | 0.35 | 43 |
| 1 | 50 ISL | 12.59 | 12.58 | 33.409 | 25.243 | 273.0 | 0.147 | 5.54 | 91.8 | 5.7 | 0.74 | 5.4 | 0.35 | 0.55 | 0.30 | 50 |
| 1 | 53 | 12.36 | 12.35 | 33.441 | 25.312 | 266.4 | 0.155 | 5.37 | 88.5 | 6.8 | 0.82 | 6.7 | 0.40 | 0.48 | 0.29 | 53 |
| 1 | 62 | 11.73 | 11.72 | 33.543 | 25.510 | 247.8 | 0.179 | 4.66 | 75.8 | 11.2 | 1.10 | 11.5 | 0.27 | 0.40 | 0.44 | 62 |
| 1 | 73 | 11.50 | 11.49 | 33.560 | 25.566 | 242.7 | 0.206 | 4.40 | 71.3 | 12.5 | 1.20 | 13.3 | 0.11 | 0.21 | 0.33 | 74 |
| 1 | 75 ISL | 11.38 | 11.37 | 33.574 | 25.599 | 239.6 | 0.210 | 4.29 | 69.3 | 13.1 | 1.24 | 14.0 | 0.09 | 0.18 | 0.31 | 76 |
| 1 | 87 | 10.65 | 10.64 | 33.674 | 25.807 | 220.0 | 0.238 | 3.65 | 58.1 | 17.4 | 1.50 | 18.4 | 0.02 | 0.06 | 0.22 | 88 |
| 1 | 100 ISL | 10.24 | 10.23 | 33.748 | 25.936 | 208.0 | 0.266 | 3.40 | 53.6 | 20.1 | 1.63 | 20.7 | 0.01 | 0.04 | 0.22 | 101 |
| 1 | 101 | 10.22 | 10.21 | 33.752 | 25.942 | 207.4 | 0.268 | 3.39 | 53.4 | 20.3 | 1.64 | 20.8 | 0.01 | 0.04 | 0.22 | 102 |
| 1 | 122 | 9.44 | 9.43 | 33.771 | 26.088 | 193.9 | 0.310 | 3.41 | 52.8 | 23.4 | 1.73 | 23.0 | 0.00 | 0.01 | 0.10 | 123 |
| 1 | 125 ISL | 9.39 | 9.38 | 33.784 | 26.106 | 192.2 | 0.316 | 3.37 | 52.2 | 23.9 | 1.75 | 23.3 | 0.00 | 0.01 | 0.10 | 126 |
| 1 | 146 | 9.10 | 9.08 | 33.881 | 26.229 | 180.9 | 0.355 | 3.07 | 47.2 | 27.5 | 1.88 | 25.2 | 0.00 | 0.01 | 0.07 | 147 |
| 1 | 150 ISL | 9.02 | 9.00 | 33.893 | 26.251 | 178.9 | 0.362 | 3.06 | 47.0 | 28.1 | 1.89 | 25.5 | 0.00 | 0.01 | 0.07 | 151 |
| 1 | 175 | 8.50 | 8.48 | 33.948 | 26.375 | 167.4 | 0.405 | 3.00 | 45.6 | 32.0 | 1.96 | 26.8 | 0.00 | 0.01 | 0.05 | 176 |
| 1 | 200 ISL | 8.02 | 8.00 | 34.004 | 26.492 | 156.6 | 0.446 | 2.96 | 44.5 | 36.4 | 2.01 | 27.9 | 0.00 | 0.00 | 0.04 | 202 |
| 1 | 204 | 7.95 | 7.93 | 34.011 | 26.508 | 155.2 | 0.452 | 2.95 | 44.2 | 37.1 | 2.02 | 28.1 | 0.00 | 0.00 | 0.04 | 206 |
| 1 | 232 | 7.67 | 7.65 | 34.016 | 26.553 | 151.3 | 0.495 | 2.84 | 42.3 | 40.2 | 2.10 | 29.1 | 0.00 | | | 234 |
| 1 | 250 ISL | 7.59 | 7.57 | 34.037 | 26.581 | 148.8 | 0.522 | 2.55 | 37.9 | 42.7 | 2.20 | 30.3 | 0.00 | | | 252 |
| 1 | 271 | 7.52 | 7.49 | 34.070 | 26.617 | 145.7 | 0.553 | 2.14 | 31.8 | 46.0 | 2.34 | 31.9 | 0.00 | | | 273 |
| 1 | 300 ISL | 7.25 | 7.22 | 34.114 | 26.690 | 139.2 | 0.594 | 1.62 | 23.9 | 51.8 | 2.54 | 34.0 | 0.00 | | | 302 |
| 1 | 323 | 7.03 | 7.00 | 34.150 | 26.749 | 133.8 | 0.626 | 1.25 | 18.4 | 56.4 | 2.69 | 35.5 | 0.00 | | | 326 |
| 1 | 380 | 6.82 | 6.78 | 34.226 | 26.838 | 126.1 | 0.700 | 0.75 | 11.0 | 63.8 | 2.87 | 37.4 | 0.00 | | | 383 |
| 1 | 400 ISL | 6.75 | 6.71 | 34.237 | 26.857 | 124.7 | 0.725 | 0.67 | 9.8 | 65.3 | 2.90 | 37.8 | 0.00 | | | 403 |
| 1 | 445 | 6.57 | 6.53 | 34.253 | 26.894 | 121.7 | 0.780 | 0.56 | 8.1 | 68.3 | 2.96 | 38.5 | 0.00 | | | 449 |
| 1 | 500 ISL | 6.33 | 6.28 | 34.287 | 26.953 | 116.7 | 0.846 | 0.43 | 6.2 | 73.8 | 3.04 | 39.4 | 0.00 | | | 504 |
| 1 | 515 | 6.26 | 6.21 | 34.296 | 26.969 | 115.3 | 0.863 | 0.39 | 5.6 | 75.3 | 3.06 | 39.6 | 0.00 | | | 520 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 70

| LATITUDE 34 23.3 N | LONGITUDE 122 14.8 W | DAY/MO/YR 15/03/87 | MESSANGER 1120 | GMT | BOTTOM 4018 M | WIND 320 | SPEED 25 KT | WAVES | WEATHER | BAROMETER 1012.9 MB | DRY 12.1 C | WET 8.9 C | CLOUD | AMT | TYPE | |
|-----------------------|-------------------------|-----------------------|-------------------|----------|------------------|-------------|----------------|----------------|------------|------------------------|---------------|--------------|-------------|---------------|----------------|----------------|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAEAO UG/L | PRESS D.BAR |
| 1 | 0 ISL | 13.11 | 13.11 | 33.260 | 25.024 | 292.5 | 0.000 | 6.22 | 104.1 | 4.4 | 0.43 | 0.5 | 0.07 | 0.63 | 0.24 | 0 |
| 1 | 3 | 13.11 | 13.11 | 33.260 | 25.024 | 292.6 | 0.009 | 6.22 | 104.1 | 4.4 | 0.43 | 0.5 | 0.07 | 0.63 | 0.24 | 3 |
| 1 | 10 ISL | 13.13 | 13.13 | 33.259 | 25.019 | 293.2 | 0.029 | 6.26 | 104.8 | 4.3 | 0.43 | 0.5 | 0.07 | 0.63 | 0.24 | 10 |
| 1 | 14 | 13.14 | 13.14 | 33.259 | 25.017 | 293.5 | 0.041 | 6.28 | 105.1 | 4.3 | 0.43 | 0.5 | 0.07 | 0.63 | 0.24 | 14 |
| 1 | 20 ISL | 13.15 | 13.15 | 33.258 | 25.015 | 293.9 | 0.059 | 6.25 | 104.6 | 4.2 | 0.42 | 0.5 | 0.07 | 0.64 | 0.23 | 20 |
| 1 | 25 | 13.15 | 13.15 | 33.257 | 25.014 | 294.1 | 0.073 | 6.22 | 104.1 | 4.2 | 0.42 | 0.5 | 0.07 | 0.64 | 0.22 | 25 |
| 1 | 30 ISL | 13.15 | 13.15 | 33.257 | 25.014 | 294.2 | 0.088 | 6.20 | 103.8 | 4.0 | 0.42 | 0.5 | 0.07 | 0.62 | 0.22 | 30 |
| 1 | 34 | 13.15 | 13.15 | 33.257 | 25.014 | 294.3 | 0.100 | 6.20 | 103.8 | 3.8 | 0.42 | 0.5 | 0.07 | 0.60 | 0.22 | 34 |
| 1 | 43 | 13.13 | 13.12 | 33.257 | 25.019 | 294.1 | 0.126 | 6.23 | 104.3 | 3.8 | 0.43 | 0.5 | 0.07 | 0.64 | 0.25 | 43 |
| 1 | 50 ISL | 13.08 | 13.07 | 33.258 | 25.030 | 293.3 | 0.147 | 6.20 | 103.7 | 3.7 | 0.44 | 0.6 | 0.10 | 0.73 | 0.28 | 50 |
| 1 | 54 | 13.02 | 13.01 | 33.249 | 25.035 | 292.9 | 0.159 | 6.18 | 103.2 | 3.7 | 0.44 | 0.6 | 0.11 | 0.75 | 0.31 | 54 |
| 1 | 63 | 12.71 | 12.70 | 33.281 | 25.120 | 285.0 | 0.185 | 6.01 | 99.7 | 4.3 | 0.52 | 1.5 | 0.32 | 0.53 | 0.43 | 63 |
| 1 | 73 | 12.57 | 12.56 | 33.273 | 25.142 | 283.2 | 0.213 | 5.89 | 97.4 | 4.5 | 0.57 | 2.3 | 0.58 | 0.32 | 0.31 | 74 |
| 1 | 75 ISL | 12.45 | 12.44 | 33.290 | 25.178 | 279.8 | 0.219 | 5.72 | 94.4 | 5.4 | 0.64 | 3.6 | 0.53 | 0.28 | 0.29 | 76 |
| 1 | 88 | 11.43 | 11.42 | 33.416 | 25.467 | 252.5 | 0.253 | 4.59 | 74.2 | 11.6 | 1.14 | 12.6 | 0.05 | 0.09 | 0.19 | 89 |
| 1 | 100 ISL | 10.46 | 10.45 | 33.424 | 25.646 | 235.6 | 0.282 | 4.62 | 73.1 | 13.1 | 1.23 | 14.5 | 0.03 | 0.03 | 0.11 | 101 |
| 1 | 103 | 10.24 | 10.23 | 33.425 | 25.684 | 232.0 | 0.290 | 4.63 | 72.9 | 13.3 | 1.24 | 14.7 | 0.02 | 0.03 | 0.09 | 104 |
| 1 | 122 | 9.34 | 9.33 | 33.586 | 25.959 | 206.1 | 0.331 | 4.13 | 63.8 | 19.4 | 1.52 | 19.7 | 0.01 | 0.00 | 0.05 | 123 |
| 1 | 125 ISL | 9.25 | 9.24 | 33.612 | 25.994 | 202.8 | 0.337 | 4.11 | 53.4 | 20.0 | 1.54 | 20.1 | 0.01 | 0.00 | 0.05 | 126 |
| 1 | 147 | 8.86 | 8.84 | 33.799 | 26.202 | 183.4 | 0.380 | 3.87 | 59.2 | 23.9 | 1.65 | 22.5 | 0.01 | 0.00 | 0.06 | 148 |
| 1 | 150 ISL | 8.84 | 8.82 | 33.825 | 26.226 | 181.2 | 0.385 | 3.73 | 57.0 | 25.0 | 1.70 | 23.2 | 0.01 | 0.00 | 0.06 | 151 |
| 1 | 177 | 8.67 | 8.65 | 34.004 | 26.393 | 165.8 | 0.432 | 2.57 | 39.2 | 34.0 | 2.08 | 28.4 | 0.01 | 0.00 | 0.04 | 178 |
| 1 | 200 ISL | 8.34 | 8.32 | 34.023 | 26.459 | 159.9 | 0.469 | 2.60 | 39.4 | 36.4 | 2.10 | 28.7 | 0.00 | 0.00 | 0.04 | 202 |
| 1 | 207 | 8.23 | 8.21 | 34.018 | 26.472 | 158.8 | 0.481 | 2.61 | 39.4 | 36.8 | 2.11 | 28.8 | 0.00 | 0.00 | 0.04 | 209 |
| 1 | 235 | 7.84 | 7.82 | 34.036 | 26.544 | 152.2 | 0.524 | 2.52 | 37.7 | 40.4 | 2.20 | 29.9</td | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 80

| LATITUDE 34 | LONGITUDE 122 56.5 W | DAY/MO/YR 15/03/87 | MESSENGER 0602 | BOTTOM 4114 M | WIND 330 | SPEED 23 KT | WAVES | WEATHER | BAROMETER 1015.2 MB | DRY | | | WET | | | CLOUD AMT TYPE | |
|----------------|-------------------------|-----------------------|-------------------|------------------|-------------|----------------|-------|---------|------------------------|------|----------------|------------|--------------|-------------|-------------|----------------|---------------|
| | | | | | | | | | | GMT | OXYGEN ML/L | OXY PCT | SIO3 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L |
| 1 | 0 | 14.30 | 14.30 | 33.038 | 24.609 | 331.9 | 0.000 | | 1.8 | 0.40 | 0.2 | 0.00 | 0.10 | 0.03 | 0 | | |
| 1 | 10 | 14.31 | 14.31 | 33.039 | 24.608 | 332.3 | 0.033 | 6.07 | 104.0 | 1.8 | 0.40 | 0.2 | 0.00 | 0.10 | 0.02 | 10 | |
| 1 | 19 | 14.30 | 14.30 | 33.033 | 24.606 | 332.8 | 0.063 | 6.02 | 103.1 | 1.8 | 0.40 | 0.2 | 0.00 | 0.10 | 0.03 | 19 | |
| 1 | 20 ISL | 14.30 | 14.30 | 33.033 | 24.606 | 332.9 | 0.066 | 6.01 | 102.9 | 1.8 | 0.40 | 0.2 | 0.00 | 0.10 | 0.03 | 20 | |
| 1 | 30 | 14.29 | 14.29 | 33.030 | 24.606 | 333.1 | 0.100 | 5.98 | 102.4 | 1.8 | 0.40 | 0.2 | 0.00 | 0.10 | 0.06 | 30 | |
| 1 | 40 | 14.07 | 14.06 | 33.012 | 24.638 | 330.3 | 0.133 | 6.03 | 102.7 | 1.7 | 0.40 | 0.2 | 0.00 | 0.14 | 0.05 | 40 | |
| 1 | 50 | 13.95 | 13.94 | 33.014 | 24.665 | 328.1 | 0.166 | 6.00 | 102.0 | 1.7 | 0.40 | 0.2 | 0.00 | 0.24 | 0.09 | 50 | |
| 1 | 60 | 13.94 | 13.93 | 33.040 | 24.687 | 326.2 | 0.199 | 6.01 | 102.1 | 1.8 | 0.41 | 0.2 | 0.00 | 0.22 | 0.11 | 60 | |
| 1 | 70 | 13.72 | 13.71 | 33.056 | 24.745 | 320.9 | 0.231 | 5.93 | 100.3 | 2.0 | 0.44 | 0.5 | 0.10 | 0.30 | 0.46 | 71 | |
| 1 | 75 ISL | 13.62 | 13.61 | 33.076 | 24.781 | 317.6 | 0.247 | 5.88 | 99.3 | 2.1 | 0.46 | 0.9 | 0.11 | 0.29 | 0.40 | 76 | |
| 1 | 84 | 13.27 | 13.26 | 33.121 | 24.887 | 307.8 | 0.275 | 5.75 | 96.4 | 2.9 | 0.54 | 2.3 | 0.14 | 0.27 | 0.19 | 85 | |
| 1 | 99 | 11.74 | 11.73 | 33.202 | 25.244 | 273.9 | 0.319 | 5.28 | 85.8 | 6.5 | 0.84 | 7.5 | 0.02 | 0.12 | 0.13 | 100 | |
| 1 | 100 ISL | 11.68 | 11.67 | 33.210 | 25.261 | 272.3 | 0.321 | 5.25 | 85.2 | 6.8 | 0.86 | 7.8 | 0.02 | 0.11 | 0.13 | 101 | |
| 1 | 118 | 10.92 | 10.91 | 33.353 | 25.510 | 240.9 | 0.368 | 4.70 | 75.1 | 11.5 | 1.16 | 12.9 | 0.01 | 0.05 | 0.07 | 119 | |
| 1 | 125 ISL | 10.69 | 10.68 | 33.411 | 25.596 | 240.9 | 0.385 | 4.52 | 71.8 | 13.0 | 1.25 | 14.5 | 0.01 | 0.03 | 0.06 | 126 | |
| 1 | 144 | 10.11 | 10.09 | 33.567 | 25.818 | 220.1 | 0.429 | 4.08 | 64.1 | 17.1 | 1.46 | 18.3 | 0.01 | 0.01 | 0.05 | 145 | |
| 1 | 150 ISL | 9.85 | 9.83 | 33.618 | 25.901 | 212.3 | 0.442 | 3.96 | 61.9 | 19.0 | 1.53 | 19.5 | 0.01 | 0.01 | 0.04 | 151 | |
| 1 | 173 | 9.00 | 8.98 | 33.807 | 26.187 | 185.4 | 0.488 | 3.47 | 53.2 | 26.3 | 1.78 | 23.8 | 0.00 | 0.00 | 0.03 | 174 | |
| 1 | 200 ISL | 8.77 | 8.75 | 33.973 | 26.354 | 170.1 | 0.536 | 2.69 | 41.1 | 32.8 | 2.04 | 27.3 | 0.00 | 0.00 | 0.04 | 202 | |
| 1 | 202 | 8.76 | 8.74 | 33.981 | 26.362 | 169.3 | 0.539 | 2.64 | 40.3 | 33.2 | 2.05 | 27.5 | 0.00 | 0.00 | 0.04 | 204 | |
| 1 | 231 | 8.10 | 8.08 | 34.015 | 26.489 | 157.5 | 0.587 | 2.69 | 40.5 | 37.9 | 2.12 | 28.9 | 0.01 | | 0.23 | | |
| 1 | 250 ISL | 7.90 | 7.87 | 34.047 | 26.544 | 152.5 | 0.616 | 2.43 | 36.4 | 41.1 | 2.22 | 30.1 | 0.01 | | 0.25 | | |
| 1 | 269 | 7.77 | 7.74 | 34.078 | 26.588 | 148.7 | 0.645 | 2.10 | 31.4 | 44.4 | 2.33 | 31.4 | 0.00 | | 0.27 | | |
| 1 | 300 ISL | 7.52 | 7.49 | 34.117 | 26.655 | 142.7 | 0.690 | 1.67 | 24.8 | 49.9 | 2.49 | 33.2 | 0.00 | | 0.30 | | |
| 1 | 326 | 7.24 | 7.21 | 34.131 | 26.705 | 138.2 | 0.726 | 1.41 | 20.8 | 54.6 | 2.61 | 34.7 | 0.00 | | 0.32 | | |
| 1 | 382 | 6.23 | 6.20 | 34.079 | 26.800 | 129.3 | 0.801 | 1.31 | 18.9 | 65.0 | 2.75 | 38.0 | 0.00 | | 0.35 | | |
| 1 | 400 ISL | 6.08 | 6.05 | 34.090 | 26.828 | 126.7 | 0.824 | 1.18 | 16.9 | 67.9 | 2.80 | 38.7 | 0.00 | | 0.40 | | |
| 1 | 449 | 5.84 | 5.80 | 34.140 | 26.898 | 120.6 | 0.885 | 0.78 | 11.1 | 74.8 | 2.94 | 40.3 | 0.00 | | 0.43 | | |
| 1 | 500 ISL | 5.58 | 5.54 | 34.184 | 26.965 | 114.6 | 0.945 | 0.58 | 8.2 | 81.0 | 3.05 | 41.4 | 0.00 | | 0.50 | | |
| 1 | 521 | 5.48 | 5.44 | 34.202 | 26.991 | 112.2 | 0.969 | 0.50 | 7.1 | 83.6 | 3.10 | 41.9 | 0.00 | | 0.52 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 90

| LATITUDE 33 | LONGITUDE 123 38.2 W | DAY/MO/YR 15/03/87 | MESSENGER 0032 | BOTTOM 4114 M | WIND 320 | SPEED 17 KT | WAVES 300 10 10 | WEATHER 6 | BAROMETER 1015.2 MB | DRY | | | WET | | | CLOUD AMT TYPE | |
|----------------|-------------------------|-----------------------|-------------------|------------------|-------------|----------------|--------------------|--------------|------------------------|------|----------------|------------|--------------|-------------|-------------|----------------|---------------|
| | | | | | | | | | | GMT | OXYGEN ML/L | OXY PCT | SIO3 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L |
| 1 | 0 ISL | 14.50 | 14.50 | 33.043 | 24.571 | 335.6 | 0.000 | 5.99 | 103.0 | 1.8 | 0.39 | 0.2 | 0.00 | 0.11 | 0.02 | 0 | |
| 1 | 2 | 14.50 | 14.50 | 33.043 | 24.571 | 335.6 | 0.007 | 5.99 | 103.0 | 1.8 | 0.39 | 0.2 | 0.00 | 0.11 | 0.02 | 2 | |
| 1 | 10 ISL | 14.52 | 14.52 | 33.040 | 24.565 | -336.5 | 0.034 | 6.01 | 103.4 | 1.7 | 0.38 | 0.2 | 0.00 | 0.11 | 0.02 | 10 | |
| 1 | 11 | 14.52 | 14.52 | 33.040 | 24.565 | 336.5 | 0.037 | | | 1.7 | 0.38 | 0.2 | 0.00 | 0.11 | 0.02 | 11 | |
| 1 | 20 ISL | 14.51 | 14.51 | 33.041 | 24.568 | 336.5 | 0.067 | 6.03 | 103.7 | 1.5 | 0.38 | 0.2 | 0.00 | 0.11 | 0.02 | 20 | |
| 1 | 21 | 14.51 | 14.51 | 33.041 | 24.568 | 336.5 | 0.071 | 6.03 | 103.7 | 1.5 | 0.38 | 0.2 | 0.00 | 0.11 | 0.02 | 21 | |
| 1 | 30 ISL | 14.37 | 14.37 | 33.041 | 24.598 | 335.9 | 0.101 | 6.00 | 102.9 | 1.5 | 0.38 | 0.2 | 0.00 | 0.14 | 0.02 | 30 | |
| 1 | 31 | 14.35 | 14.35 | 33.041 | 24.602 | 333.5 | 0.104 | 6.00 | 102.8 | 1.5 | 0.38 | 0.2 | 0.00 | 0.14 | 0.02 | 31 | |
| 1 | 42 | 14.11 | 14.10 | 33.045 | 24.656 | 328.7 | 0.141 | 6.04 | 103.0 | 1.5 | 0.39 | 0.2 | 0.00 | 0.17 | 0.04 | 42 | |
| 1 | 50 ISL | 14.03 | 14.02 | 33.041 | 24.669 | 327.6 | 0.167 | 6.02 | 102.5 | 1.5 | 0.39 | 0.2 | 0.00 | 0.20 | 0.07 | 50 | |
| 1 | 51 | 14.02 | 14.01 | 33.041 | 24.671 | 327.5 | 0.170 | 6.02 | 102.5 | 1.5 | 0.39 | 0.2 | 0.00 | 0.20 | 0.07 | 51 | |
| 1 | 60 | 13.91 | 13.90 | 33.051 | 24.702 | 324.8 | 0.199 | 5.98 | 101.6 | 1.7 | 0.39 | 0.2 | 0.02 | 0.37 | 0.23 | 60 | |
| 1 | 71 | 13.74 | 13.73 | 33.070 | 24.752 | 320.4 | 0.235 | 5.93 | 100.4 | 1.9 | 0.43 | 0.6 | 0.12 | 0.36 | 0.16 | 72 | |
| 1 | 75 ISL | 13.65 | 13.64 | 33.079 | 24.777 | 318.0 | 0.248 | 5.89 | 99.5 | 2.1 | 0.45 | 1.0 | 0.13 | 0.35 | 0.17 | 76 | |
| 1 | 84 | 13.31 | 13.30 | 33.107 | 24.868 | 309.6 | 0.276 | 5.75 | 96.5 | 2.8 | 0.54 | 2.3 | 0.14 | 0.31 | 0.20 | 85 | |
| 1 | 99 | 12.09 | 12.08 | 33.186 | 25.166 | 281.4 | 0.320 | 5.41 | 88.5 | 5.3 | 0.81 | 6.4 | 0.03 | 0.18 | 0.15 | 100 | |
| 1 | 100 ISL | 12.02 | 12.01 | 33.189 | 25.182 | 280.0 | 0.323 | 5.39 | 88.1 | 5.5 | 0.82 | 6.6 | 0.03 | 0.17 | 0.15 | 101 | |
| 1 | 118 | 10.93 | 10.92 | 33.275 | 25.448 | 254.9 | 0.371 | 4.98 | 79.5 | 9.4 | 1.03 | 11.1 | 0.02 | 0.07 | 0.10 | 119 | |
| 1 | 125 ISL | 10.62 | 10.61 | 33.362 | 25.570 | 243.3 | 0.389 | 4.70 | 74.6 | 11.8 | 1.16 | 13.5 | 0.02 | 0.05 | 0.08 | 126 | |
| 1 | 144 | 9.97 | 9.95 | 33.615 | 25.879 | 214.3 | 0.432 | 3.92 | 61.4 | 18.6 | 1.52 | 19.7 | 0.01 | 0.02 | 0.04 | 145 | |
| 1 | 150 ISL | 9.78 | 9.76 | 33.669 | 25.953 | 207.4 | 0.445 | 3.75 | 58.5 | 20.4 | 1.60 | 21.0 | 0.01 | 0.01 | 0.04 | 151 | |
| 1 | 172 | 9.19 | 9.17 | 33.814 | 26.162 | 187.8 | 0.488 | 3.30 | 50.9 | 26.0 | 1.79 | 24.3 | 0.01 | 0.00 | 0.03 | 173 | |
| 1 | 200 ISL | 8.79 | 8.77 | 33.911 | 26.302 | 175.0 | 0.539 | 3.04 | 46.5 | 30.0 | 1.90 | 26.3 | 0.00 | 0.00 | 0.02 | 202 | |
| 1 | 203 | 8.75 | 8.73 | 33.918 | 26.314 | 173.9 | 0.544 | 3.03 | 46.3 | 30.4 | 1.91 | 26.4 | 0.00 | 0.00 | 0.02 | 205 | |
| 1 | 231 | 8.13 | 8.11 | 33.992 | 26.467 | 159.7 | 0.591 | 2.93 | 44.1 | 35.7 | 2.03 | 28.1 | 0.00 | | 0.23 | | |
| 1 | 250 ISL | 7.87 | 7.85 | 34.010 | 26.519 | 154.8 | 0.621 | 2.81 | 42.1 | 38.4 | 2.09 | 29.1 | 0.00 | | 0.25 | | |
| 1 | 270 | 7.67 | 7.64 | 34.016 | 26.553 | 151. | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 23.3 N | 124 19.4 W | 14/03/87 | 1909 GMT | 4305 M | 270 | 16 KT | 290 09 08 | 1 | 1018.5 MB | 16.8 C | 14.8 C | 7/8 | CC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.43 | 15.43 | 33.263 | 24.540 | 338.6 | 0.000 | 5.84 | 102.4 | 1.6 | 0.34 | 0.2 | 0.00 | 0.06 | 0.01 | 0 |
| 1 | 10 ISL | 15.40 | 15.40 | 33.260 | 24.544 | 338.4 | 0.034 | 5.89 | 103.2 | 1.7 | 0.34 | 0.2 | 0.00 | 0.06 | 0.01 | 10 |
| 1 | 16 | 15.39 | 15.39 | 33.258 | 24.545 | 338.6 | 0.054 | 5.92 | 103.7 | 1.7 | 0.34 | 0.2 | 0.00 | 0.06 | 0.01 | 16 |
| 20 ISL | 15.31 | 15.31 | 33.240 | 24.549 | 338.3 | 0.068 | 5.93 | 103.7 | 1.8 | 0.35 | 0.2 | 0.00 | 0.06 | 0.01 | 20 | |
| 30 ISL | 15.06 | 15.06 | 33.185 | 24.562 | 337.4 | 0.101 | 5.96 | 103.7 | 2.0 | 0.36 | 0.2 | 0.00 | 0.08 | 0.02 | 30 | |
| 1 | 36 | 14.87 | 14.86 | 33.146 | 24.573 | 336.5 | 0.122 | 5.97 | 103.5 | 2.1 | 0.37 | 0.2 | 0.00 | 0.09 | 0.02 | 36 |
| 50 ISL | 14.46 | 14.45 | 33.069 | 24.601 | 334.2 | 0.169 | 5.98 | 102.7 | 2.1 | 0.38 | 0.2 | 0.00 | 0.15 | 0.04 | 50 | |
| 1 | 56 | 14.29 | 14.28 | 33.043 | 24.617 | 332.9 | 0.189 | 5.98 | 102.4 | 2.1 | 0.38 | 0.2 | 0.00 | 0.18 | 0.06 | 56 |
| 1 | 71 | 14.00 | 13.99 | 33.023 | 24.662 | 328.9 | 0.238 | 6.00 | 102.1 | 2.1 | 0.41 | 0.2 | 0.00 | 0.28 | 0.13 | 72 |
| 75 ISL | 13.94 | 13.93 | 33.023 | 24.675 | 327.8 | 0.251 | 6.01 | 102.1 | 2.1 | 0.40 | 0.2 | 0.00 | 0.30 | 0.19 | 76 | |
| 1 | 80 | 13.88 | 13.87 | 33.024 | 24.688 | 326.7 | 0.268 | 6.02 | 102.2 | 2.1 | 0.40 | 0.2 | 0.00 | 0.31 | 0.26 | 81 |
| 1 | 90 | 13.74 | 13.73 | 33.027 | 24.719 | 324.0 | 0.300 | 5.93 | 100.4 | 2.2 | 0.44 | 0.5 | 0.11 | 0.32 | 0.21 | 91 |
| 100 ISL | 13.55 | 13.54 | 33.040 | 24.768 | 319.6 | 0.333 | 5.86 | 98.8 | 2.7 | 0.47 | 1.1 | 0.16 | 0.26 | 0.18 | 101 | |
| 1 | 101 | 13.51 | 13.50 | 33.044 | 24.779 | 318.5 | 0.336 | 5.85 | 98.5 | 2.8 | 0.47 | 1.2 | 0.17 | 0.25 | 0.18 | 102 |
| 1 | 111 | 12.76 | 12.75 | 33.146 | 25.007 | 297.0 | 0.366 | 5.52 | 91.6 | 4.8 | 0.67 | 4.6 | 0.03 | 0.18 | 0.19 | 112 |
| 1 | 124 | 11.47 | 11.45 | 33.261 | 25.340 | 265.4 | 0.403 | 5.02 | 81.1 | 8.9 | 0.96 | 10.0 | 0.02 | 0.09 | 0.11 | 125 |
| 125 ISL | 11.40 | 11.38 | 33.270 | 25.360 | 263.5 | 0.406 | 4.99 | 80.5 | 9.2 | 0.98 | 10.3 | 0.02 | 0.08 | 0.10 | 126 | |
| 1 | 139 | 10.59 | 10.57 | 33.400 | 25.605 | 240.3 | 0.441 | 4.57 | 72.5 | 13.3 | 1.22 | 14.6 | 0.01 | 0.02 | 0.05 | 140 |
| 150 ISL | 10.08 | 10.06 | 33.530 | 25.794 | 222.5 | 0.466 | 4.16 | 65.3 | 17.1 | 1.42 | 17.8 | 0.01 | 0.01 | 0.06 | 151 | |
| 1 | 159 | 9.76 | 9.74 | 33.634 | 25.929 | 209.8 | 0.486 | 3.84 | 59.9 | 20.2 | 1.56 | 20.2 | 0.01 | 0.00 | 0.07 | 160 |
| 179 | 9.40 | 9.38 | 33.799 | 26.117 | 192.3 | 0.526 | 3.32 | 51.4 | | | | | | 0.00 | 0.03 | 180 |
| 200 ISL | 8.92 | 8.90 | 33.880 | 26.257 | 179.2 | 0.565 | 3.18 | 48.7 | 28.8 | 1.81 | 25.2 | 0.01 | 0.00 | 0.03 | 202 | |
| 1 | 203 | 8.85 | 8.83 | 33.888 | 26.275 | 177.6 | 0.570 | 3.18 | 48.6 | 29.3 | 1.82 | 25.4 | 0.01 | 0.00 | 0.03 | 205 |
| 1 | 231 | 8.42 | 8.40 | 33.986 | 26.418 | 164.4 | 0.618 | 2.93 | 44.4 | 34.1 | 1.96 | 27.2 | 0.01 | | | 233 |
| 250 ISL | 8.10 | 8.07 | 34.007 | 26.483 | 158.4 | 0.649 | 2.84 | 42.7 | 36.9 | 2.02 | 28.2 | 0.01 | | | 252 | |
| 1 | 271 | 7.76 | 7.73 | 34.014 | 26.539 | 153.3 | 0.682 | 2.72 | 40.6 | 40.1 | 2.09 | 29.4 | 0.00 | | | 273 |
| 300 ISL | 7.38 | 7.35 | 34.039 | 26.613 | 146.6 | 0.725 | 2.33 | 34.5 | 46.0 | 2.27 | 31.7 | 0.00 | | | 302 | |
| 1 | 326 | 7.09 | 7.06 | 34.062 | 26.672 | 141.2 | 0.763 | 1.94 | 28.5 | 51.5 | 2.44 | 33.8 | 0.01 | | | 329 |
| 1 | 385 | 6.55 | 6.51 | 34.102 | 26.777 | 131.8 | 0.843 | 1.29 | 18.7 | 61.9 | 2.69 | 37.3 | 0.00 | | | 388 |
| 400 ISL | 6.42 | 6.38 | 34.108 | 26.799 | 129.8 | 0.863 | 1.17 | 16.9 | 64.2 | 2.74 | 38.0 | 0.00 | | | 403 | |
| 1 | 450 | 6.05 | 6.01 | 34.138 | 26.870 | 123.4 | 0.926 | 0.85 | 12.2 | 71.0 | 2.89 | 39.7 | 0.00 | | | 454 |
| 500 ISL | 5.94 | 5.90 | 34.205 | 26.937 | 117.6 | 0.986 | 0.60 | 8.6 | 75.9 | 2.98 | 40.4 | 0.00 | | | 504 | |
| 1 | 521 | 5.89 | 5.84 | 34.233 | 26.966 | 115.2 | 1.011 | 0.50 | 7.2 | 77.9 | 3.02 | 40.7 | 0.00 | | | 526 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 34 27.0 N | 120 31.4 W | 13/03/87 | 0633 GMT | 85 M | U0 | 07 KT | 80 | 09 | 1020.2 MB | 14.4 C | 13.0 C | 10 | 11 | 12 | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.97 | 13.97 | 33.361 | 24.927 | 301.6 | 0.000 | 6.38 | 108.7 | 2.3 | 0.33 | 0.5 | 0.02 | 0.82 | 0.18 | 0 |
| 1 | 10 | 13.80 | 13.80 | 33.372 | 24.971 | 297.8 | 0.030 | 6.31 | 107.2 | 2.8 | 0.37 | 0.8 | 0.04 | 0.96 | 0.19 | 10 |
| 1 | 20 | 13.31 | 13.31 | 33.421 | 25.109 | 284.9 | 0.059 | 6.00 | 100.9 | 4.5 | 0.53 | 2.5 | 0.13 | 1.51 | 0.28 | 20 |
| 30 ISL | 12.98 | 12.98 | 33.460 | 25.205 | 276.1 | 0.087 | 5.44 | 90.9 | 5.9 | 0.67 | 4.1 | 0.24 | 2.80 | 0.12 | 30 | |
| 1 | 31 | 12.94 | 12.94 | 33.463 | 25.216 | 275.1 | 0.090 | 5.39 | 90.0 | 6.0 | 0.68 | 4.3 | 0.25 | 2.86 | 0.11 | 31 |
| 1 | 41 | 12.36 | 12.35 | 33.496 | 25.354 | 262.1 | 0.117 | 5.35 | 88.2 | 8.1 | 0.86 | 6.7 | 0.40 | 0.68 | 0.24 | 41 |
| 50 ISL | 11.99 | 11.98 | 33.527 | 25.449 | 253.3 | 0.140 | 4.86 | 79.5 | 10.5 | 1.04 | 10.0 | 0.51 | 0.47 | 0.46 | 50 | |
| 1 | 51 | 11.96 | 11.95 | 33.531 | 25.457 | 252.5 | 0.142 | 4.80 | 78.5 | 10.7 | 1.06 | 10.4 | 0.52 | 0.45 | 0.48 | 51 |
| 1 | 61 | 11.70 | 11.69 | 33.561 | 25.530 | 249.5 | 0.167 | 4.42 | 71.9 | 12.3 | 1.18 | 12.1 | 0.39 | 0.38 | 0.47 | 61 |
| 1 | 75 | 10.90 | 10.89 | 33.696 | 25.780 | 222.3 | 0.200 | 3.64 | 58.2 | 19.9 | 1.51 | 17.2 | 0.22 | 0.25 | 0.41 | 76 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|--------|----|
| 34 19.0 N | 120 48.1 W | 13/03/87 | 1016 GMT | 829 M | 300 | 15 KT | 80 | 09 | 1020.3 MB | 14.4 C | 13.3 C | 10 | 11 | 12 | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 0 ISL | 13.89 | 13.89 | 33.280 | 24.881 | 306.1 | 0.000 | 6.67 | 113.4 | 0.8 | 0.32 | 0.2 | 0.00 | 2.16 | 0.32 | 0 | 0 | |
| 1 | 13.89 | 13.89 | 33.280 | 24.881 | 306.1 | 0.003 | 6.67 | 113.4 | 0.8 | 0.32 | 0.2 | 0.00 | 2.16 | 0.32 | 1 | 1 | |
| 10 ISL | 13.67 | 13.67 | 33.327 | 24.963 | 298.5 | 0.030 | 6.87 | 116.3 | 1.6 | 0.31 | 0.2 | 0.00 | 2.43 | 0.42 | 10 | 10 | |
| 1 | 11 | 13.63 | 13.63 | 33.334 | 24.977 | 297.3 | 0.033 | 6.88 | 116.4 | 1.7 | 0.31 | 0.2 | 0.00 | 2.48 | 0.44 | 11 | 11 |
| 20 ISL | 13.32 | 13.32 | 33.346 | 25.049 | 290.7 | 0.060 | 6.32 | 106.3 | 2.6 | 0.43 | 0.8 | 0.05 | 3.10 | 0.69 | 20 | 20 | |
| 1 | 21 | 13.27 | 13.27 | 33.346 | 25.059 | 289.7 | 0.063 | 6.23 | 104.6 | 2.8 | 0.45 | 0.9 | 0.06 | 3.17 | 0.71 | 21 | 21 |
| 30 ISL | 12.61 | 12.61 | 33.346 | 25.189 | 277.5 | 0.088 | 5.48 | 90.8 | 5.7 | 0.75 | 5.4 | 0.20 | 0.86 | 0.58 | 30 | 30</td | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE |
|----------|-----------|-----------|-----------|----------|-------------|-------|--------|-------------|---------|-----------|----------|----------|----------|------------|------------|-------------|
| | | | | 1426 | GMT | | | | | 1020.9 MB | 14.5 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SIO3 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L | PRESS D.BAR |
| M | DEG C | DEG C | | | | | | | | | | | | | | |
| 34 | 9.0 N | 121 | 9.1 W | 13/03/87 | | | | | | | | | | | | |
| 1 | 0 ISL | 13.78 | 13.78 | 33.182 | 24.828 | 311.1 | 0.000 | 6.17 | 104.6 | 2.3 | 0.41 | 0.2 | 0.00 | 0.30 | 0.06 | 0 |
| 1 | 1 | 13.78 | 13.78 | 33.182 | 24.828 | 311.1 | 0.003 | 6.17 | 104.6 | 2.3 | 0.41 | 0.2 | 0.00 | 0.30 | 0.06 | 1 |
| 1 | 10 | 13.75 | 13.75 | 33.183 | 24.836 | 310.7 | 0.031 | 6.16 | 104.4 | 2.7 | 0.41 | 0.2 | 0.00 | 0.30 | 0.06 | 10 |
| 1 | 20 ISL | 13.49 | 13.49 | 33.190 | 24.894 | 305.4 | 0.062 | 6.19 | 104.3 | 2.5 | 0.41 | 0.2 | 0.00 | 0.34 | 0.10 | 20 |
| 1 | 21 | 13.46 | 13.46 | 33.191 | 24.901 | 304.8 | 0.065 | 6.19 | 104.3 | 2.5 | 0.41 | 0.2 | 0.00 | 0.34 | 0.11 | 21 |
| 1 | 30 ISL | 13.38 | 13.38 | 33.203 | 24.927 | 302.6 | 0.092 | 6.15 | 103.4 | 2.6 | 0.43 | 0.2 | 0.01 | 0.65 | 0.22 | 30 |
| 1 | 31 | 13.38 | 13.38 | 33.205 | 24.928 | 302.5 | 0.095 | 6.14 | 103.3 | 2.6 | 0.43 | 0.2 | 0.01 | 0.68 | 0.23 | 31 |
| 1 | 41 | 13.27 | 13.26 | 33.244 | 24.981 | 297.7 | 0.125 | 6.00 | 100.7 | 2.8 | 0.48 | 1.1 | 0.10 | 0.76 | 0.25 | 41 |
| 1 | 50 ISL | 13.01 | 13.00 | 33.268 | 25.051 | 291.2 | 0.152 | 5.82 | 97.2 | 3.5 | 0.58 | 2.3 | 0.25 | 0.76 | 0.29 | 50 |
| 1 | 51 | 12.97 | 12.96 | 33.269 | 25.060 | 290.4 | 0.155 | 5.80 | 96.7 | 3.6 | 0.59 | 2.5 | 0.26 | 0.76 | 0.29 | 51 |
| 1 | 62 | 12.53 | 12.52 | 33.255 | 25.135 | 283.5 | 0.186 | 5.57 | 92.0 | 4.7 | 0.73 | 4.8 | 0.14 | 0.45 | 0.25 | 62 |
| 1 | 72 | 11.64 | 11.63 | 33.266 | 25.312 | 266.9 | 0.214 | 5.12 | 83.0 | 8.2 | 0.99 | 9.1 | 0.03 | 0.19 | 0.16 | 73 |
| 1 | 75 ISL | 11.42 | 11.41 | 33.269 | 25.354 | 262.8 | 0.222 | 5.03 | 81.2 | 9.0 | 1.05 | 10.1 | 0.03 | 0.15 | 0.14 | 76 |
| 1 | 84 | 10.85 | 10.84 | 33.307 | 25.486 | 250.5 | 0.245 | 4.76 | 75.9 | 11.4 | 1.21 | 12.7 | 0.02 | 0.09 | 0.10 | 85 |
| 1 | 99 | 10.17 | 10.16 | 33.526 | 25.775 | 223.3 | 0.280 | 4.14 | 65.1 | 16.5 | 1.50 | 17.9 | 0.01 | 0.02 | 0.06 | 100 |
| 1 | 100 ISL | 10.15 | 10.14 | 33.536 | 25.786 | 222.2 | 0.283 | 4.11 | 64.6 | 16.7 | 1.51 | 18.1 | 0.01 | 0.02 | 0.06 | 101 |
| 1 | 119 | 9.80 | 9.79 | 33.675 | 25.953 | 206.7 | 0.323 | 3.70 | 57.8 | 20.4 | 1.67 | 21.0 | 0.01 | 0.01 | 0.05 | 120 |
| 1 | 125 ISL | 9.65 | 9.64 | 33.712 | 26.007 | 201.6 | 0.336 | 3.60 | 56.0 | 21.7 | 1.72 | 21.9 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 145 | 9.16 | 9.14 | 33.813 | 26.166 | 186.9 | 0.374 | 3.33 | 51.3 | 25.8 | 1.85 | 24.3 | 0.00 | 0.00 | 0.04 | 146 |
| 1 | 150 ISL | 9.08 | 9.06 | 33.832 | 26.194 | 184.3 | 0.384 | 3.28 | 50.4 | 26.5 | 1.87 | 24.7 | 0.00 | 0.00 | 0.04 | 151 |
| 1 | 174 | 8.76 | 8.74 | 33.906 | 26.302 | 174.4 | 0.427 | 3.10 | 47.3 | 29.5 | 1.95 | 26.0 | 0.01 | 0.01 | 0.04 | 175 |
| 1 | 200 ISL | 8.31 | 8.29 | 33.980 | 26.430 | 162.6 | 0.471 | 3.00 | 45.4 | 33.8 | 2.02 | 27.4 | 0.01 | 0.01 | 0.04 | 202 |
| 1 | 204 | 8.23 | 8.21 | 33.989 | 26.449 | 160.9 | 0.477 | 2.98 | 45.0 | 34.6 | 2.03 | 27.6 | 0.01 | 0.01 | 0.04 | 206 |
| 1 | 233 | 7.64 | 7.62 | 34.017 | 26.558 | 150.8 | 0.522 | 2.73 | 40.7 | 40.7 | 2.14 | 29.7 | 0.01 | | | 235 |
| 1 | 250 ISL | 7.51 | 7.49 | 34.043 | 26.597 | 147.3 | 0.548 | 2.43 | 36.1 | 43.7 | 2.25 | 30.9 | 0.01 | | | 252 |
| 1 | 271 | 7.43 | 7.40 | 34.075 | 26.634 | 144.1 | 0.578 | 2.04 | 30.2 | 47.2 | 2.39 | 32.4 | 0.01 | | | 273 |
| 1 | 300 ISL | 7.22 | 7.19 | 34.103 | 26.686 | 139.6 | 0.619 | 1.66 | 24.5 | 51.9 | 2.52 | 34.1 | 0.00 | | | 302 |
| 1 | 325 | 7.05 | 7.02 | 34.124 | 26.726 | 136.0 | 0.654 | 1.40 | 20.6 | 55.6 | 2.61 | 35.3 | 0.00 | | | 328 |
| 1 | 384 | 6.79 | 6.75 | 34.190 | 26.814 | 128.4 | 0.732 | 0.87 | 12.7 | 62.1 | 2.81 | 37.4 | 0.00 | | | 387 |
| 1 | 400 ISL | 6.68 | 6.64 | 34.197 | 26.835 | 126.7 | 0.752 | 0.79 | 11.5 | 64.3 | 2.85 | 37.9 | 0.00 | | | 403 |
| 1 | 449 | 6.35 | 6.31 | 34.213 | 26.891 | 121.7 | 0.813 | 0.62 | 9.0 | 70.4 | 2.93 | 39.2 | 0.00 | | | 453 |
| 1 | 500 ISL | 6.25 | 6.21 | 34.250 | 26.934 | 118.4 | 0.874 | 0.48 | 6.9 | 73.6 | 2.99 | 39.8 | 0.00 | | | 504 |
| 1 | 520 | 6.21 | 6.16 | 34.264 | 26.950 | 117.1 | 0.898 | 0.43 | 6.2 | 74.8 | 3.02 | 40.0 | 0.00 | | | 525 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE |
|----------|-----------|-----------|-----------|----------|-------------|-------|--------|-------------|---------|-----------|----------|----------|----------|------------|------------|-------------|
| | | | | 2054 | GMT | | | | | 1023.3 MB | 16.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SIO3 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L | PRESS D.BAR |
| M | DEG C | DEG C | | | | | | | | | | | | | | |
| 33 | 49.1 N | 121 | 50.6 W | 13/03/87 | | | | | | | | | | | | |
| 1 | 0 | 14.14 | 14.14 | 33.008 | 24.620 | 331.0 | 0.000 | 6.03 | 102.9 | 2.0 | 0.40 | 0.2 | 0.00 | 0.16 | 0.03 | 0 |
| 1 | 10 ISL | 13.86 | 13.86 | 32.992 | 24.666 | 326.9 | 0.033 | 6.06 | 102.8 | 1.9 | 0.41 | 0.2 | 0.00 | 0.18 | 0.03 | 10 |
| 1 | 16 | 13.69 | 13.69 | 32.982 | 24.693 | 324.5 | 0.052 | 6.08 | 102.8 | 1.9 | 0.41 | 0.2 | 0.00 | 0.19 | 0.03 | 16 |
| 1 | 20 ISL | 13.62 | 13.62 | 33.011 | 24.729 | 321.1 | 0.065 | 6.12 | 103.3 | 2.0 | 0.41 | 0.2 | 0.00 | 0.29 | 0.05 | 20 |
| 1 | 30 ISL | 13.49 | 13.49 | 33.092 | 24.819 | 312.9 | 0.097 | 6.20 | 104.4 | 2.4 | 0.40 | 0.2 | 0.00 | 0.53 | 0.11 | 30 |
| 1 | 31 | 13.48 | 13.48 | 33.101 | 24.828 | 312.0 | 0.100 | 6.21 | 104.6 | 2.4 | 0.40 | 0.2 | 0.00 | 0.55 | 0.12 | 31 |
| 1 | 41 | 13.40 | 13.39 | 33.131 | 24.867 | 308.5 | 0.131 | 6.20 | 104.3 | 2.5 | 0.41 | 0.2 | 0.01 | 0.56 | 0.16 | 41 |
| 1 | 50 | 13.13 | 13.12 | 33.215 | 24.986 | 297.4 | 0.158 | 6.16 | 103.1 | 3.0 | 0.44 | 0.6 | 0.08 | 0.66 | 0.21 | 50 |
| 1 | 60 | 12.85 | 12.84 | 33.287 | 25.098 | 287.1 | 0.188 | 5.95 | 99.0 | 4.1 | 0.55 | 1.9 | 0.29 | 0.53 | 0.29 | 60 |
| 1 | 70 | 12.85 | 12.84 | 33.308 | 25.114 | 285.8 | 0.216 | 5.96 | 99.2 | 4.3 | 0.55 | 2.0 | 0.29 | 0.66 | 0.45 | 71 |
| 1 | 75 ISL | 12.65 | 12.64 | 33.321 | 25.163 | 281.2 | 0.231 | 5.71 | 94.6 | 5.2 | 0.66 | 3.9 | 0.27 | 0.45 | 0.37 | 76 |
| 1 | 80 | 12.32 | 12.31 | 33.336 | 25.239 | 274.1 | 0.244 | 5.59 | 88.7 | 6.6 | 0.80 | 6.4 | 0.23 | 0.20 | 0.25 | 81 |
| 1 | 94 | 10.82 | 10.81 | 33.403 | 25.566 | 243.1 | 0.281 | 4.54 | 72.4 | 12.6 | 1.26 | 14.2 | 0.03 | 0.07 | 0.16 | 95 |
| 1 | 100 ISL | 10.40 | 10.40 | 33.459 | 25.681 | 232.2 | 0.295 | 4.29 | 67.8 | 14.9 | 1.39 | 16.4 | 0.02 | 0.04 | 0.12 | 101 |
| 1 | 109 | 9.97 | 9.96 | 33.539 | 25.819 | 219.3 | 0.315 | 4.03 | 63.1 | 17.8 | 1.53 | 18.8 | 0.01 | 0.02 | 0.08 | 110 |
| 1 | 125 | 9.53 | 9.52 | 33.585 | 25.927 | 209.2 | 0.349 | 3.93 | 60.9 | 20.1 | 1.62 | 20.5 | 0.01 | 0.01 | 0.06 | 126 |
| 1 | 149 | 9.09 | 9.07 | 33.818 | 26.181 | 185.5 | 0.397 | 3.39 | 52.1 | 26.3 | 1.82 | 24.1 | 0.01 | 0.00 | 0.04 | 150 |
| 1 | 150 ISL | 9.08 | 9.06 | 33.823 | 26.187 | 185.0 | 0.399 | 3.38 | 52.0 | 26.5 | 1.82 | 24.2 | 0.01 | 0.00 | 0.04 | 151 |
| 1 | 174 | 8.72 | 8.70 | 33.903 | 26.306 | 174.0 | 0.442 | 3.20 | 48.8 | 29.9 | 1.90 | 25.7 | 0.01 | 0.00 | 0.03 | 175 |
| 1 | 200 ISL | 8.25 | 8.23 | 33.964 | 26.426 | 163.0 | 0.486 | 3.22 | 48.6 | 33.4 | 1.95 | 26.8 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 204 | 8.18 | 8.16 | 33.971 | 26.442 | 161.4 | 0.492 | 3.22 | 48.5 | 34.0 | 1.96 | 27.0 | 0.01 | 0.00 | 0.03 | 206 |
| 1 | 233 | 7.81 | 7.79 | 33.999 | 26.519 | 154.5 | 0.538 | 2.95 | 44.1 | 38.4 | 2.08 | 28.7 | 0.00 | | | 235 |
| 1 | 250 ISL | 7.60 | 7.58 | 34.017 | 26.564 | 150.5 | 0.564 | 2.67 | 39.7 | 42.1 | 2.19 | 30.2 | 0. | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 29.0 N | 122 32.0 W | 14/03/87 | 0205 GMT | 3924 M | 320 | 16 KT | 300 10 11 | 1 | 1021.9 MB | 14.5 C | 11.5 C | 3/8 | CC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.50 | 14.50 | 33.100 | 24.615 | 331.4 | 0.000 | 6.06 | 104.2 | 2.2 | 0.38 | 0.2 | 0.00 | 0.16 | 0.02 | 0 |
| 1 | 1 | 14.50 | 14.50 | 33.100 | 24.615 | 331.4 | 0.003 | 6.06 | 104.2 | 2.2 | 0.38 | 0.2 | 0.00 | 0.16 | 0.02 | 1 |
| 1 | 10 ISL | 14.28 | 14.28 | 33.132 | 24.686 | 324.9 | 0.033 | 6.06 | 103.8 | 2.1 | 0.38 | 0.2 | 0.00 | 0.17 | 0.03 | 10 |
| 1 | 15 | 14.11 | 14.11 | 33.156 | 24.740 | 319.9 | 0.049 | 6.06 | 103.4 | 2.1 | 0.38 | 0.2 | 0.00 | 0.18 | 0.03 | 15 |
| 1 | 20 ISL | 14.01 | 14.01 | 33.154 | 24.760 | 318.2 | 0.065 | 6.06 | 103.2 | 2.1 | 0.38 | 0.2 | 0.00 | 0.21 | 0.04 | 20 |
| 1 | 30 ISL | 13.92 | 13.92 | 33.161 | 24.784 | 316.2 | 0.097 | 6.05 | 102.9 | 2.1 | 0.39 | 0.2 | 0.00 | 0.32 | 0.09 | 30 |
| 1 | 31 | 13.92 | 13.92 | 33.163 | 24.786 | 316.0 | 0.100 | 6.05 | 102.9 | 2.1 | 0.39 | 0.2 | 0.00 | 0.33 | 0.10 | 31 |
| 1 | 40 | 14.00 | 13.99 | 33.231 | 24.822 | 312.8 | 0.128 | 6.01 | 102.4 | 2.1 | 0.41 | 0.2 | 0.00 | 0.47 | 0.18 | 40 |
| 1 | 50 ISL | 13.94 | 13.93 | 33.245 | 24.845 | 310.9 | 0.159 | 5.99 | 101.9 | 2.2 | 0.40 | 0.3 | 0.04 | 0.58 | 0.25 | 50 |
| 1 | 51 | 13.93 | 13.92 | 33.246 | 24.848 | 310.6 | 0.162 | 5.99 | 101.9 | 2.2 | 0.40 | 0.3 | 0.05 | 0.59 | 0.25 | 51 |
| 1 | 61 | 13.45 | 13.44 | 33.171 | 24.888 | 307.0 | 0.193 | 5.97 | 100.5 | 2.6 | 0.45 | 0.6 | 0.14 | 0.54 | 0.26 | 61 |
| 1 | 71 | 13.01 | 13.00 | 33.188 | 24.990 | 297.7 | 0.224 | 5.84 | 97.4 | 3.5 | 0.54 | 2.1 | 0.29 | 0.22 | 0.18 | 72 |
| 1 | 75 ISL | 12.95 | 12.94 | 33.188 | 25.002 | 296.6 | 0.235 | 5.79 | 96.5 | 3.6 | 0.56 | 2.5 | 0.27 | 0.19 | 0.17 | 76 |
| 1 | 81 | 12.83 | 12.82 | 33.190 | 25.027 | 294.3 | 0.253 | 5.70 | 94.7 | 4.0 | 0.60 | 3.3 | 0.20 | 0.15 | 0.16 | 82 |
| 1 | 94 | 12.01 | 12.00 | 33.248 | 25.229 | 275.3 | 0.290 | 5.35 | 87.4 | 6.6 | 0.83 | 7.3 | 0.04 | 0.11 | 0.13 | 95 |
| 1 | 100 ISL | 11.36 | 11.35 | 33.282 | 25.376 | 201.4 | 0.306 | 5.11 | 82.4 | 8.7 | 0.97 | 9.9 | 0.03 | 0.08 | 0.11 | 101 |
| 1 | 109 | 10.42 | 10.41 | 33.349 | 25.594 | 240.7 | 0.329 | 4.74 | 74.9 | 12.2 | 1.19 | 13.8 | 0.01 | 0.04 | 0.08 | I10 |
| 1 | 124 | 9.67 | 9.66 | 33.478 | 25.821 | 219.3 | 0.363 | 4.29 | 66.7 | 17.5 | 1.47 | 18.4 | 0.01 | 0.01 | 0.05 | 125 |
| 1 | 125 ISL | 9.64 | 9.63 | 33.490 | 25.835 | 217.9 | 0.366 | 4.26 | 66.2 | 17.8 | 1.48 | 18.6 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 148 | 9.25 | 9.23 | 33.745 | 26.098 | 193.4 | 0.413 | 3.58 | 55.2 | 23.8 | 1.73 | 22.9 | 0.00 | 0.00 | 0.04 | 149 |
| 1 | 150 ISL | 9.23 | 9.21 | 33.760 | 26.113 | 192.0 | 0.417 | 3.54 | 54.6 | 24.2 | 1.74 | 23.1 | 0.00 | 0.00 | 0.04 | 151 |
| 1 | 173 | 9.05 | 9.03 | 33.893 | 26.247 | 179.8 | 0.459 | 3.14 | 48.3 | 28.2 | 1.87 | 25.2 | 0.01 | 0.00 | 0.03 | 174 |
| 1 | 200 ISL | 8.61 | 8.59 | 33.992 | 26.393 | 166.2 | 0.506 | 2.75 | 41.9 | 33.1 | 2.04 | 27.4 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 202 | 8.58 | 8.56 | 33.997 | 26.402 | 165.4 | 0.509 | 2.73 | 41.5 | 33.5 | 2.05 | 27.6 | 0.00 | 0.00 | 0.03 | 204 |
| 1 | 232 | 8.22 | 8.20 | 34.055 | 26.502 | 156.3 | 0.558 | 2.41 | 36.4 | 38.6 | 2.19 | 29.5 | 0.01 | | | 234 |
| 1 | 250 ISL | 7.93 | 7.90 | 34.050 | 26.542 | 152.8 | 0.586 | 2.48 | 37.2 | 40.5 | 2.19 | 29.9 | 0.01 | | | 252 |
| 1 | 271 | 7.59 | 7.56 | 34.037 | 26.581 | 149.2 | 0.617 | 2.57 | 38.2 | 42.8 | 2.20 | 30.4 | 0.01 | | | 273 |
| 1 | 300 ISL | 7.21 | 7.18 | 34.055 | 26.649 | 143.0 | 0.660 | 2.18 | 32.1 | 48.8 | 2.37 | 32.7 | 0.01 | | | 302 |
| 1 | 326 | 6.94 | 6.91 | 34.082 | 26.708 | 137.7 | 0.696 | 1.71 | 25.1 | 54.5 | 2.55 | 34.9 | 0.01 | | | 329 |
| 1 | 383 | 6.65 | 6.61 | 34.147 | 26.799 | 129.7 | 0.772 | 1.11 | 16.2 | 62.3 | 2.79 | 37.4 | 0.00 | | | 386 |
| 1 | 400 ISL | 6.47 | 6.43 | 34.149 | 26.824 | 127.4 | 0.794 | 1.00 | 14.5 | 65.2 | 2.84 | 38.2 | 0.00 | | | 403 |
| 1 | 450 | 5.93 | 5.89 | 34.150 | 26.895 | 121.0 | 0.856 | 0.78 | 11.2 | 73.7 | 2.95 | 40.3 | 0.00 | | | 454 |
| 1 | 500 ISL | 5.62 | 5.58 | 34.188 | 26.963 | 114.8 | 0.915 | 0.61 | 8.7 | 80.6 | 3.05 | 41.5 | 0.00 | | | 504 |
| 1 | 522 | 5.49 | 5.45 | 34.205 | 26.993 | 112.2 | 0.940 | 0.53 | 7.5 | 83.6 | 3.09 | 42.0 | 0.00 | | | 527 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 9.0 N | 123 13.3 W | 14/03/87 | 0751 GMT | 4305 M | 320 | 16 KT | 300 10 11 | 1 | 1022.0 MB | 14.0 C | 10.9 C | 3/8 | CC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.57 | 14.57 | 33.035 | 24.550 | 337.6 | 0.000 | 5.99 | 103.1 | 1.6 | 0.42 | 0.1 | 0.00 | 0.10 | 0.02 | 0 |
| 1 | 10 ISL | 14.56 | 14.56 | 33.034 | 24.552 | 337.7 | 0.034 | 6.01 | 103.5 | 1.5 | 0.44 | 0.2 | 0.00 | 0.11 | 0.02 | 10 |
| 1 | 16 | 14.55 | 14.55 | 33.034 | 24.554 | 337.7 | 0.054 | 6.02 | 103.6 | 1.5 | 0.45 | 0.2 | 0.00 | 0.11 | 0.02 | 16 |
| 1 | 20 ISL | 14.42 | 14.42 | 33.026 | 24.575 | 335.8 | 0.067 | 6.02 | 103.3 | 1.5 | 0.43 | 0.2 | 0.00 | 0.11 | 0.02 | 20 |
| 1 | 30 | 14.11 | 14.11 | 33.016 | 24.633 | 330.6 | 0.101 | 6.01 | 102.5 | 1.4 | 0.39 | 0.1 | 0.00 | 0.10 | 0.03 | 30 |
| 1 | 41 | 14.11 | 14.10 | 33.047 | 24.657 | 328.6 | 0.137 | 5.99 | 102.2 | 1.4 | 0.40 | 0.1 | 0.00 | 0.13 | 0.05 | 41 |
| 1 | 50 ISL | 14.04 | 14.03 | 33.067 | 24.687 | 325.9 | 0.167 | 6.00 | 102.2 | 1.5 | 0.39 | 0.1 | 0.00 | 0.20 | 0.10 | 50 |
| 1 | 51 | 14.03 | 14.02 | 33.068 | 24.690 | 325.7 | 0.170 | 6.00 | 102.2 | 1.5 | 0.39 | 0.1 | 0.00 | 0.21 | 0.11 | 51 |
| 1 | 60 | 13.89 | 13.88 | 33.060 | 24.713 | 323.8 | 0.199 | 5.97 | 101.4 | 1.6 | 0.42 | 0.2 | 0.03 | 0.35 | 0.16 | 60 |
| 1 | 71 | 13.24 | 13.23 | 33.080 | 24.861 | 309.9 | 0.234 | 5.84 | 97.9 | 2.4 | 0.51 | 1.4 | 0.17 | 0.35 | 0.18 | 72 |
| 1 | 75 ISL | 12.89 | 12.88 | 33.108 | 24.951 | 301.4 | 0.246 | 5.75 | 95.7 | 3.1 | 0.57 | 2.6 | 0.12 | 0.32 | 0.18 | 76 |
| 1 | 80 | 12.48 | 12.47 | 33.149 | 25.063 | 290.8 | 0.261 | 5.63 | 92.9 | 3.9 | 0.64 | 4.0 | 0.04 | 0.27 | 0.18 | 81 |
| 1 | 94 | 12.13 | 12.12 | 33.228 | 25.191 | 278.9 | 0.301 | 5.48 | 89.8 | 4.4 | 0.70 | 5.2 | 0.03 | 0.17 | 0.17 | 95 |
| 1 | 100 ISL | 11.62 | 11.61 | 33.264 | 25.314 | 267.3 | 0.317 | 5.24 | 84.9 | 6.6 | 0.86 | 7.9 | 0.02 | 0.12 | 0.14 | 101 |
| 1 | 100 | 10.74 | 10.73 | 33.337 | 25.529 | 246.9 | 0.343 | 4.78 | 76.0 | 11.0 | 1.16 | 12.8 | 0.01 | 0.05 | 0.08 | 111 |
| 1 | 125 | 10.15 | 10.14 | 33.461 | 25.728 | 228.3 | 0.379 | 4.31 | 67.7 | 15.2 | 1.38 | 16.9 | 0.02 | 0.05 | 0.05 | 126 |
| 1 | 149 | 9.47 | 9.45 | 33.736 | 26.056 | 197.5 | 0.430 | 3.52 | 54.6 | 22.7 | 1.69 | 22.4 | 0.00 | 0.00 | 0.03 | 150 |
| 1 | 150 ISL | 9.45 | 9.43 | 33.743 | 26.065 | 196.7 | 0.432 | 3.50 | 54.2 | 22.9 | 1.70 | 22.5 | 0.00 | 0.00 | 0.03 | 151 |
| 1 | 174 | 9.07 | 9.05 | 33.852 | 26.211 | 183.1 | 0.477 | 3.18 | 48.9 | 26.8 | 1.84 | 24.7 | 0.00 | 0.00 | 0.03 | 175 |
| 1 | 200 ISL | 8.68 | 8.66 | 33.938 | 26.340 | 171.3 | 0.523 | 3.04 | 46.3 | 30.6 | 1.94 | 26.3 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 204 | 8.62 | 8.60 | 33.948 | 26.357 | 169.7 | 0.530 | 3.02 | 46.0 | 31.2 | 1.95 | 26.5 | 0.00 | 0.00 | 0.03 | 206 |
| 1 | 232 | 8.08 | 8.06 | 33.998 | 26.479 | 158.5 | 0.576 | 2.82 | 42.4 | 36.0 | 2.05 | 28.4 | 0.00 | | | 234 |
| 1 | 250 ISL | 7.83 | 7.81 | 34.021 | 26.534 | 153.5 | 0.604 | 2.64 | 39.5 | 39.3 | 2.14 | 29.6 | 0.00 | | | 252 |
| 1 | 271 | 7.60 | 7.57 | 34.042 | 26.584 | 148.9 | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 100

| LATITUDE LONGITUDE DAY/MO/YR | | | | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | |
|------------------------------|------------|----------|----------|-----------|--------|-------|--------|--------|---------|-----------|--------|--------|-----------|-------|--------|-------|
| 32 49.0 N | 123 54.2 W | 14/03/87 | 1322 GMT | 4114 M | 300 | 15 KT | | | | 1019.7 MB | 15.0 C | 11.7 C | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | ML/L | PCT | | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.13 | 15.13 | 33.189 | 24.549 | 337.7 | 0.000 | 5.87 | 102.3 | 1.5 | 0.35 | 0.2 | 0.00 | 0.07 | 0.02 | 0 |
| 1 | 10 ISL | 15.12 | 15.12 | 33.187 | 24.549 | 338.0 | 0.034 | 5.87 | 102.3 | 1.5 | 0.35 | 0.2 | 0.01 | 0.08 | 0.02 | 10 |
| 1 | 15 | 15.12 | 15.12 | 33.186 | 24.549 | 338.2 | 0.051 | 5.87 | 102.3 | 1.5 | 0.35 | 0.2 | 0.01 | 0.08 | 0.02 | 15 |
| 1 | 20 ISL | 15.12 | 15.12 | 33.185 | 24.548 | 338.4 | 0.068 | 5.87 | 102.3 | 1.5 | 0.35 | 0.2 | 0.01 | 0.08 | 0.02 | 20 |
| 1 | 29 | 15.11 | 15.11 | 33.184 | 24.550 | 338.5 | 0.098 | 5.87 | 102.2 | 1.6 | 0.35 | 0.2 | 0.00 | 0.08 | 0.02 | 29 |
| 1 | 30 ISL | 15.10 | 15.10 | 33.183 | 24.552 | 338.4 | 0.101 | 5.87 | 102.2 | 1.6 | 0.35 | 0.2 | 0.00 | 0.08 | 0.02 | 30 |
| 1 | 41 | 14.93 | 14.92 | 33.165 | 24.575 | 336.5 | 0.139 | 5.89 | 102.2 | 1.5 | 0.35 | 0.2 | 0.09 | 0.02 | 0.02 | 41 |
| 1 | 50 ISL | 14.77 | 14.76 | 33.151 | 24.599 | 334.5 | 0.169 | 5.91 | 102.2 | 1.5 | 0.36 | 0.2 | 0.00 | 0.10 | 0.05 | 50 |
| 1 | 51 | 14.75 | 14.74 | 33.150 | 24.602 | 334.2 | 0.172 | 5.91 | 102.2 | 1.5 | 0.36 | 0.2 | 0.00 | 0.10 | 0.05 | 51 |
| 1 | 60 | 14.70 | 14.69 | 33.159 | 24.620 | 332.7 | 0.202 | 5.91 | 102.1 | 1.6 | 0.36 | 0.2 | 0.00 | 0.11 | 0.04 | 60 |
| 1 | 70 | 14.31 | 14.30 | 33.094 | 24.653 | 329.8 | 0.235 | 5.96 | 102.1 | 1.6 | 0.37 | 0.2 | 0.00 | 0.17 | 0.08 | 71 |
| 1 | 75 ISL | 14.04 | 14.03 | 33.064 | 24.686 | 326.8 | 0.252 | 5.95 | 101.3 | 1.7 | 0.39 | 0.2 | 0.03 | 0.25 | 0.13 | 76 |
| 1 | 78 | 13.88 | 13.87 | 33.049 | 24.707 | 324.8 | 0.261 | 5.95 | 101.0 | 1.7 | 0.40 | 0.2 | 0.05 | 0.30 | 0.16 | 79 |
| 1 | 94 | 13.38 | 13.37 | 33.055 | 24.814 | 315.0 | 0.313 | 5.83 | 97.9 | 2.9 | 0.49 | 1.4 | 0.14 | 0.29 | 0.18 | 95 |
| 100 ISL | 13.00 | 12.99 | 33.084 | 24.912 | 305.8 | 0.331 | 5.77 | 96.2 | 3.4 | 0.55 | 2.5 | 0.09 | 0.27 | 0.18 | 101 | |
| 1 | 108 | 12.42 | 12.41 | 33.140 | 25.068 | 291.0 | 0.355 | 5.61 | 92.4 | 4.6 | 0.66 | 4.5 | 0.02 | 0.22 | 0.17 | 109 |
| 1 | 124 | 11.25 | 11.23 | 33.296 | 25.407 | 259.0 | 0.399 | 4.90 | 78.8 | 9.6 | 1.03 | 11.0 | 0.02 | 0.07 | 0.09 | 125 |
| 125 ISL | 11.19 | 11.17 | 33.305 | 25.425 | 257.3 | 0.402 | 4.87 | 78.2 | 9.9 | 1.05 | 11.3 | 0.02 | 0.07 | 0.09 | 126 | |
| 1 | 148 | 10.13 | 10.11 | 33.536 | 25.790 | 228.2 | 0.457 | 4.16 | 65.4 | 16.6 | 1.42 | 17.8 | 0.01 | 0.01 | 0.05 | 149 |
| 150 ISL | 10.12 | 10.10 | 33.568 | 25.817 | 220.3 | 0.461 | 4.05 | 63.6 | 17.3 | 1.46 | 18.4 | 0.01 | 0.01 | 0.05 | 151 | |
| 1 | 173 | 10.04 | 10.02 | 33.871 | 26.067 | 197.1 | 0.509 | 2.75 | 43.2 | 25.3 | 1.86 | 24.0 | 0.01 | 0.00 | 0.04 | 174 |
| 200 ISL | 9.64 | 9.62 | 34.045 | 26.271 | 178.3 | 0.560 | 2.05 | 32.0 | 31.5 | 2.12 | 27.4 | 0.01 | 0.00 | 0.03 | 202 | |
| 1 | 203 | 9.59 | 9.57 | 34.056 | 26.287 | 176.7 | 0.565 | 2.01 | 31.3 | 32.0 | 2.14 | 27.6 | 0.01 | 0.00 | 0.03 | 205 |
| 1 | 231 | 9.34 | 9.31 | 34.144 | 26.397 | 166.8 | 0.613 | 1.70 | 26.3 | 35.6 | 2.28 | 29.2 | 0.01 | | | 233 |
| 250 ISL | 9.14 | 9.11 | 34.180 | 26.458 | 161.3 | 0.645 | 1.54 | 23.8 | 38.0 | 2.36 | 30.0 | 0.01 | | | | 252 |
| 1 | 270 | 8.91 | 8.88 | 34.205 | 26.515 | 156.3 | 0.676 | 1.41 | 21.6 | 40.5 | 2.43 | 30.8 | 0.00 | | | 272 |
| 300 ISL | 8.59 | 8.56 | 34.225 | 26.581 | 150.4 | 0.722 | 1.26 | 19.2 | 43.9 | 2.51 | 31.8 | 0.00 | | | | 302 |
| 1 | 323 | 8.34 | 8.31 | 34.229 | 26.622 | 146.7 | 0.757 | 1.17 | 17.7 | 46.5 | 2.57 | 32.5 | 0.00 | | | 326 |
| 1 | 382 | 7.57 | 7.53 | 34.221 | 26.730 | 137.0 | 0.840 | 1.00 | 14.9 | 54.2 | 2.71 | 34.9 | 0.00 | | | 385 |
| 400 ISL | 7.37 | 7.33 | 34.224 | 26.761 | 134.2 | 0.865 | 0.92 | 13.6 | 56.9 | 2.75 | 35.6 | 0.00 | | | | 403 |
| 1 | 449 | 6.90 | 6.86 | 34.241 | 26.840 | 127.1 | 0.929 | 0.69 | 10.1 | 64.1 | 2.86 | 37.4 | 0.00 | | | 453 |
| 500 ISL | 6.58 | 6.53 | 34.264 | 26.902 | 121.7 | 0.992 | 0.55 | 8.0 | 69.3 | 2.96 | 38.7 | 0.00 | | | | 504 |
| 1 | 520 | 6.45 | 6.40 | 34.273 | 26.927 | 119.6 | 1.016 | 0.49 | 7.1 | 71.3 | 3.00 | 39.2 | 0.00 | | | 525 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 82 47

| LATITUDE LONGITUDE DAY/MO/YR | | | | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | |
|------------------------------|-----------|----------|----------|-----------|--------|-------|--------|--------|---------|-----------|-----------|--------|-----------|--------|--------|-------|
| 34 16.9 N | 120 2.0 W | 13/03/87 | 0222 GMT | 580 M | 280 | 12 KT | 270 | 05 | 12 | 1 | 1020.1 MB | 14.5 C | 12.5 C | 6/8 SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | ML/L | PCT | | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 A | 13.52 | 13.52 | 33.378 | 25.033 | 291.6 | 0.000 | 7.05 | 119.0 | 0.3 | 0.22 | 0.2 | 0.01 | 2.43 | 0.45 | 0 |
| 1 | 10 | 13.34 | 13.34 | 33.378 | 25.069 | 288.4 | 0.029 | 7.05 | 118.6 | 0.5 | 0.22 | 0.2 | 0.00 | 2.66 | 0.46 | 10 |
| 20 ISL | 12.87 | 12.87 | 33.432 | 25.205 | 275.8 | 0.057 | 6.12 | 102.0 | 3.5 | 0.55 | 2.9 | 0.10 | 2.87 | 0.99 | 20 | |
| 1 | 25 | 12.59 | 12.59 | 33.467 | 25.287 | 268.1 | 0.071 | 5.55 | 92.0 | 5.6 | 0.75 | 4.9 | 0.17 | 2.97 | 1.27 | 25 |
| 30 ISL | 12.32 | 12.32 | 33.493 | 25.359 | 261.4 | 0.084 | 5.19 | 85.5 | 7.7 | 0.89 | 7.1 | 0.28 | 2.58 | 1.26 | 30 | |
| 1 | 40 | 11.85 | 11.84 | 33.544 | 25.488 | 249.4 | 0.110 | 4.67 | 76.2 | 11.5 | 1.11 | 11.1 | 0.44 | 1.65 | 1.23 | 40 |
| 50 ISL | 11.68 | 11.67 | 33.596 | 25.560 | 242.7 | 0.134 | 4.42 | 71.9 | 12.9 | 1.18 | 12.2 | 0.33 | 1.18 | 1.15 | 50 | |
| 1 | 54 | 11.61 | 11.60 | 33.615 | 25.588 | 240.2 | 0.144 | 4.34 | 70.5 | 13.4 | 1.20 | 12.6 | 0.25 | 1.03 | 1.12 | 54 |
| 1 | 69 | 10.93 | 10.92 | 33.676 | 25.759 | 224.2 | 0.179 | 3.68 | 58.9 | 18.0 | 1.49 | 17.7 | 0.05 | 0.35 | 0.48 | 70 |
| 75 ISL | 10.75 | 10.74 | 33.703 | 25.812 | 219.3 | 0.192 | 3.53 | 56.3 | 19.3 | 1.55 | 18.7 | 0.04 | 0.31 | 0.51 | 76 | |
| 1 | 84 | 10.55 | 10.54 | 33.744 | 25.879 | 213.1 | 0.211 | 3.37 | 53.5 | 20.9 | 1.61 | 19.8 | 0.03 | 0.24 | 0.64 | 85 |
| 1 | 98 | 10.36 | 10.35 | 33.802 | 25.957 | 206.0 | 0.241 | 3.10 | 49.0 | 23.4 | 1.73 | 21.4 | 0.04 | 0.24 | 0.51 | 99 |
| 100 ISL | 10.32 | 10.31 | 33.808 | 25.969 | 204.9 | 0.245 | 3.08 | 48.7 | 23.6 | 1.74 | 21.6 | 0.04 | 0.22 | 0.49 | 101 | |
| 113 ISL | 10.05 | 10.04 | 33.847 | 26.046 | 197.9 | 0.271 | 2.97 | 46.7 | 24.6 | 1.80 | 22.9 | 0.03 | 0.08 | 0.35 | 114 | |
| 125 ISL | 9.84 | 9.83 | 33.893 | 26.117 | 191.3 | 0.294 | 2.81 | 44.0 | 26.4 | 1.88 | 24.0 | 0.02 | 0.08 | 0.33 | 126 | |
| 143 ISL | 9.58 | 9.56 | 33.958 | 26.211 | 182.7 | 0.328 | 2.60 | 40.5 | 29.2 | 1.98 | 25.4 | 0.01 | 0.08 | 0.30 | 144 | |
| 150 ISL | 9.51 | 9.49 | 33.971 | 26.233 | 180.7 | 0.341 | 2.59 | 40.2 | 29.7 | 1.99 | 25.7 | 0.01 | 0.09 | 0.28 | 151 | |
| 173 ISL | 9.30 | 9.28 | 34.008 | 26.297 | 175.1 | 0.382 | 2.52 | 39.0 | 31.7 | 2.04 | 26.5 | 0.01 | 0.10 | 0.23 | 174 | |
| 200 ISL | 9.07 | 9.05 | 34.081 | 26.391 | 166.6 | 0.428 | 2.01 | 30.9 | 36.5 | 2.22 | 28.5 | 0.01 | 0.04 | 0.23 | 202 | |
| 1 | 202 | 9.05 | 9.03 | 34.087 | 26.399 | 165.9 | 0.431 | 1.97 | 30.3 | 36.9 | 2.24 | 28.7 | 0.01 | 0.04 | 0.23 | 204 |
| 1 | 239 | 8.63 | 8.60 | 34.156 | 26.520 | 155.0 | 0.491 | 1.44 | 22.0 | 43.8 | 2.46 | 31.0 | 0.00 | 0.03 | 0.17 | 241 |
| 1 | 294 | 8.17 | 8.14 | 34.182 | 26.611 | 147.2 | 0.574 | 1.40 | 21.1 | 47.0 | 2.52 | 32.4 | 0.01 | 0.05 | 0.05 | 296 |
| 300 ISL | 8.11 | 8.08 | 34.184 | 26.621 | 146.3 | 0.582 | 1.35 | 20.3 | 48.1 | 2.55 | 32.6 | 0.01 | | | | 302 |
| 1 | 373 | 7.43 | 7.39 | 34.208 | 26.740 | 135.8 | 0.685 | 0.63 | 9.3 | 63.8 | 2.91 | 34.8 | 0.00 | | | 376 |
| 400 ISL | 7.19 | 7.15 | 34.215 | 26.780 | 132.3 | 0.722 | 0.51 | 7.5 | 68.5 | 2.99 | 34.6 | 0.00 | | | | 403 |
| 1 | 451 | 6 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|--------|-------|------|----|
| 34 10.7 N | 119 30.5 W | 12/03/87 | 2017 GMT | 126 M | 280 09 KT | 270 02 06 | 2 | 1021.9 MB | 15.4 C | 13.1 C | 8/8 | ST | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | | |
| M | DEG C | DEG C | | THETA | SVA | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | | |
| 1 | 0 | 14.05 | 14.05 | 33.414 | 24.952 | 299.3 | 0.000 | 6.77 | 115.6 | 0.3 | 0.18 | 0.2 | 0.00 | 0.14 | 0 | |
| 1 | 10 ISL | 14.00 | 14.00 | 33.411 | 24.960 | 298.8 | 0.030 | 6.78 | 115.6 | 0.3 | 0.18 | 0.2 | 0.00 | 1.38 | 0.22 | 10 |
| 1 | 11 | 14.00 | 14.00 | 33.411 | 24.960 | 298.9 | 0.033 | 6.78 | 115.6 | 0.3 | 0.18 | 0.2 | 0.00 | 1.38 | 0.23 | 11 |
| 1 | 20 | 13.31 | 13.31 | 33.444 | 25.127 | 283.3 | 0.059 | 6.45 | 108.5 | 0.9 | 0.28 | 0.2 | 0.01 | 1.57 | 0.23 | 20 |
| 1 | 30 ISL | 12.45 | 12.45 | 33.505 | 25.344 | 262.9 | 0.086 | 5.08 | 83.9 | 7.0 | 0.82 | 6.9 | 0.25 | 1.15 | 0.49 | 30 |
| 1 | 31 | 12.38 | 12.38 | 33.511 | 25.362 | 261.2 | 0.089 | 4.95 | 81.7 | 7.6 | 0.87 | 7.6 | 0.28 | 1.10 | 0.52 | 31 |
| 1 | 41 | 12.10 | 12.09 | 33.535 | 25.434 | 254.5 | 0.115 | 4.71 | 77.3 | 9.5 | 1.00 | 9.5 | 0.34 | 1.04 | 0.77 | 41 |
| 1 | 50 ISL | 11.87 | 11.86 | 33.548 | 25.488 | 249.6 | 0.137 | 4.51 | 73.6 | 10.6 | 1.08 | 11.0 | 0.32 | 0.77 | 0.78 | 50 |
| 1 | 51 | 11.84 | 11.83 | 33.550 | 25.495 | 249.0 | 0.140 | 4.49 | 73.2 | 10.7 | 1.09 | 11.2 | 0.32 | 0.74 | 0.78 | 51 |
| 1 | 61 | 11.49 | 11.48 | 33.582 | 25.584 | 240.6 | 0.164 | 4.25 | 68.8 | 12.8 | 1.20 | 13.2 | 0.22 | 0.64 | 0.70 | 61 |
| 1 | 70 | 10.83 | 10.82 | 33.661 | 25.765 | 223.6 | 0.185 | 3.85 | 61.5 | 16.4 | 1.41 | 16.7 | 0.08 | 0.56 | 0.95 | 71 |
| 1 | 75 ISL | 10.70 | 10.69 | 33.677 | 25.800 | 220.4 | 0.196 | 3.78 | 60.2 | 17.2 | 1.45 | 17.5 | 0.06 | 0.45 | 0.73 | 76 |
| 1 | 83 | 10.62 | 10.61 | 33.691 | 25.825 | 218.2 | 0.214 | 3.72 | 59.1 | 17.9 | 1.49 | 18.1 | 0.04 | 0.29 | 0.30 | 84 |
| 1 | 97 | 10.32 | 10.31 | 33.749 | 25.923 | 209.2 | 0.244 | 3.44 | 54.4 | 20.7 | 1.62 | 19.8 | 0.05 | 0.30 | 0.37 | 98 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|-----------|--------|--------|---------|-----------|--------|--------|-------|-------|--------|-------|----|
| 33 52.7 N | 120 7.0 W | 12/03/87 | 1402 GMT | 100 M | 320 10 KT | | | | 1021.1 MB | 13.2 C | 12.3 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | |
| M | DEG C | DEG C | | THETA | SVA | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | | |
| 1 | 0 ISL | 13.57 | 13.57 | 33.395 | 25.036 | 291.3 | 0.000 | 6.10 | 103.1 | 2.0 | 0.42 | 0.7 | 0.04 | 2.03 | 0.47 | 0 |
| 1 | 2 | 13.57 | 13.57 | 33.395 | 25.036 | 291.4 | 0.006 | 6.10 | 103.1 | 2.0 | 0.42 | 0.7 | 0.04 | 2.03 | 0.47 | 2 |
| 1 | 10 ISL | 13.53 | 13.53 | 33.394 | 25.043 | 290.9 | 0.029 | 6.10 | 103.0 | 1.8 | 0.43 | 0.7 | 0.04 | 2.12 | 0.45 | 10 |
| 1 | 12 | 13.51 | 13.51 | 33.394 | 25.048 | 290.6 | 0.035 | 6.10 | 103.0 | 1.8 | 0.43 | 0.7 | 0.04 | 2.14 | 0.45 | 12 |
| 1 | 20 ISL | 13.46 | 13.46 | 33.396 | 25.059 | 289.7 | 0.058 | 6.06 | 102.2 | 2.0 | 0.44 | 0.9 | 0.05 | 2.02 | 0.49 | 20 |
| 1 | 22 | 13.45 | 13.45 | 33.397 | 25.062 | 289.4 | 0.064 | 6.05 | 102.0 | 2.1 | 0.44 | 1.0 | 0.05 | 1.98 | 0.50 | 22 |
| 1 | 30 ISL | 13.41 | 13.41 | 33.409 | 25.080 | 288.0 | 0.087 | 5.89 | 99.2 | 2.8 | 0.49 | 1.7 | 0.07 | 1.93 | 0.53 | 30 |
| 1 | 33 | 13.40 | 13.40 | 33.422 | 25.092 | 286.9 | 0.096 | 5.80 | 97.7 | 3.2 | 0.52 | 2.1 | 0.08 | 1.91 | 0.55 | 33 |
| 1 | 43 | 13.10 | 13.09 | 33.461 | 25.183 | 278.6 | 0.124 | 5.44 | 91.1 | 5.1 | 0.65 | 3.8 | 0.14 | 1.31 | 0.66 | 43 |
| 1 | 50 ISL | 12.63 | 12.62 | 33.497 | 25.303 | 267.2 | 0.143 | 5.06 | 83.9 | 7.6 | 0.86 | 6.5 | 0.16 | 1.36 | 0.69 | 50 |
| 1 | 53 | 12.43 | 12.42 | 33.512 | 25.353 | 262.5 | 0.151 | 4.90 | 80.9 | 8.7 | 0.94 | 7.6 | 0.17 | 1.38 | 0.70 | 53 |
| 1 | 62 | 12.16 | 12.15 | 33.539 | 25.426 | 255.8 | 0.174 | 4.66 | 76.5 | 10.1 | 1.02 | 9.2 | 0.20 | 1.12 | 1.03 | 62 |
| 1 | 72 | 11.81 | 11.80 | 33.576 | 25.521 | 247.0 | 0.199 | 4.42 | 72.1 | 12.3 | 1.13 | 11.4 | 0.18 | 1.10 | 1.10 | 73 |
| 1 | 75 ISL | 11.69 | 11.68 | 33.587 | 25.552 | 244.1 | 0.207 | 4.30 | 69.9 | 13.0 | 1.18 | 12.2 | 0.18 | 0.99 | 0.96 | 76 |
| 1 | 81 | 11.46 | 11.45 | 33.609 | 25.612 | 238.6 | 0.221 | 4.07 | 65.9 | 14.4 | 1.28 | 13.9 | 0.18 | 0.76 | 0.67 | 82 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|--------|--------|---------|-----------|--------|--------|-------|-------|--------|-------|-----|
| 33 44.8 N | 120 24.6 W | 12/03/87 | 1019 GMT | 1016 M | 290 08 KT | | | | 1021.8 MB | 15.2 C | 13.9 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | |
| M | DEG C | DEG C | | THETA | SVA | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | | |
| 1 | 0 ISL | 14.22 | 14.22 | 33.306 | 24.833 | 310.6 | 0.000 | 6.09 | 104.3 | 2.3 | 0.36 | 0.1 | 0.00 | 0.53 | 0.12 | 0 |
| 1 | 1 | 14.22 | 14.22 | 33.306 | 24.833 | 310.7 | 0.003 | 6.09 | 104.3 | 2.3 | 0.36 | 0.1 | 0.00 | 0.53 | 0.12 | 1 |
| 1 | 10 ISL | 14.20 | 14.20 | 33.305 | 24.837 | 310.6 | 0.031 | 6.09 | 104.2 | 2.4 | 0.37 | 0.1 | 0.00 | 0.50 | 0.12 | 10 |
| 1 | 11 | 14.20 | 14.20 | 33.305 | 24.837 | 310.6 | 0.034 | 6.09 | 104.2 | 2.4 | 0.37 | 0.1 | 0.00 | 0.50 | 0.12 | 11 |
| 1 | 20 ISL | 14.08 | 14.08 | 33.315 | 24.870 | 307.8 | 0.062 | 6.08 | 103.8 | 2.4 | 0.37 | 0.2 | 0.01 | 0.54 | 0.11 | 20 |
| 1 | 22 | 14.04 | 14.04 | 33.322 | 24.884 | 306.5 | 0.068 | 6.08 | 103.7 | 2.4 | 0.37 | 0.2 | 0.01 | 0.56 | 0.11 | 22 |
| 1 | 30 | 13.79 | 13.79 | 33.394 | 24.991 | 296.5 | 0.092 | 5.98 | 101.5 | 2.6 | 0.41 | 0.6 | 0.04 | 0.69 | 0.26 | 30 |
| 1 | 41 | 13.57 | 13.56 | 33.424 | 25.059 | 290.2 | 0.125 | 5.80 | 98.1 | 3.3 | 0.48 | 1.5 | 0.10 | 0.72 | 0.30 | 41 |
| 1 | 50 ISL | 13.01 | 13.00 | 33.423 | 25.171 | 279.8 | 0.150 | 5.51 | 92.1 | 5.2 | 0.65 | 3.9 | 0.24 | 0.48 | 0.26 | 50 |
| 1 | 51 | 12.93 | 12.92 | 33.424 | 25.188 | 278.2 | 0.153 | 5.46 | 91.1 | 5.5 | 0.68 | 4.3 | 0.25 | 0.45 | 0.25 | 51 |
| 1 | 60 | 12.08 | 12.07 | 33.498 | 25.409 | 257.3 | 0.177 | 4.66 | 76.4 | 10.1 | 1.01 | 10.2 | 0.10 | 0.27 | 0.22 | 60 |
| 1 | 70 | 11.49 | 11.48 | 33.543 | 25.554 | 243.7 | 0.202 | 4.30 | 69.6 | 12.7 | 1.18 | 13.1 | 0.04 | 0.18 | 0.19 | 71 |
| 1 | 75 ISL | 11.13 | 11.12 | 33.583 | 25.651 | 234.6 | 0.214 | 4.10 | 65.9 | 14.7 | 1.29 | 14.9 | 0.02 | 0.13 | 0.16 | 76 |
| 1 | 84 | 10.56 | 10.55 | 33.654 | 25.807 | 219.9 | 0.235 | 3.81 | 60.5 | 18.0 | 1.46 | 17.8 | 0.01 | 0.06 | 0.12 | 85 |
| 1 | 99 | 10.33 | 10.32 | 33.695 | 25.879 | 213.4 | 0.267 | 3.67 | 58.0 | 19.4 | 1.53 | 19.1 | 0.01 | 0.04 | 0.10 | 100 |
| 1 | 100 ISL | 10.31 | 10.30 | 33.697 | 25.884 | 212.9 | 0.269 | 3.67 | 58.0 | 19.5 | 1.53 | 19.2 | 0.01 | 0.04 | 0.10 | 101 |
| 1 | 119 | 9.84 | 9.83 | 33.746 | 26.002 | 202.0 | 0.309 | 3.56 | 55.6 | 22.2 | 1.64 | 21.1 | 0.01 | 0.02 | 0.08 | 120 |
| 1 | '-25 ISL | 9.71 | 9.70 | 33.771 | 26.043 | 198.2 | 0.321 | 3.46 | 53.9 | 23.4 | 1.68 | 21.8 | 0.01 | 0.02 | 0.07 | 126 |
| 1 | 143 | 9.40 | 9.38 | 33.853 | 26.159 | 187.6 | 0.355 | 3.11 | 48.2 | 27.0 | 1.82 | 24.0 | 0.00 | 0.02 | 0.06 | 144 |
| 1 | 150 ISL | 9.34 | 9.32 | 33.885 | 26.193 | 184.4 | 0.368 | 2.98 | 46.1 | 28.0 | 1.87 | 24.6 | 0.00 | 0.02 | 0.06 | 151 |
| 1 | 173 | 9.14 | 9.12 | 33.970 | 26.292 | 175.4 | 0.410 | 2.68 | 41.3 | 31.1 | 1.99 | 26.2 | 0.00 | 0.02 | 0.06 | 174 |
| 1 | 200 IS | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 33 34.7 N | 120 45.3 W | 12/03/87 | 0634 GMT | 1427 M | 280 | 06 KT | | | 1023.8 MB | 14.9 C | 13.5 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.03 | 14.03 | 33.193 | 24.785 | 315.2 | 0.000 | 6.11 | 104.1 | 2.8 | 0.40 | 0.1 | 0.01 | 0.41 | 0.06 | 0 |
| 1 | 10 | 13.70 | 13.70 | 33.193 | 24.854 | 309.0 | 0.031 | 6.26 | 106.0 | 2.7 | 0.39 | 0.1 | 0.00 | 0.43 | 0.07 | 10 |
| 1 | 20 | 13.62 | 13.62 | 33.194 | 24.871 | 307.6 | 0.062 | 6.18 | 104.5 | 2.5 | 0.39 | 0.1 | 0.00 | 0.50 | 0.13 | 20 |
| 1 | 30 ISL | 13.61 | 13.61 | 33.256 | 24.921 | 303.1 | 0.093 | 6.04 | 102.1 | 2.6 | 0.41 | 0.1 | 0.04 | 0.60 | 0.21 | 30 |
| 1 | 31 | 13.61 | 13.61 | 33.263 | 24.927 | 302.6 | 0.096 | 6.03 | 101.9 | 2.6 | 0.41 | 0.1 | 0.05 | 0.61 | 0.22 | 31 |
| 1 | 41 | 13.49 | 13.48 | 33.290 | 24.972 | 298.6 | 0.126 | 5.91 | 99.7 | 2.8 | 0.46 | 0.6 | 0.13 | 0.55 | 0.20 | 41 |
| 1 | 50 ISL | 13.16 | 13.15 | 33.308 | 25.052 | 291.1 | 0.152 | 5.83 | 97.7 | 3.6 | 0.52 | 1.3 | 0.26 | 0.39 | 0.20 | 50 |
| 1 | 51 | 13.12 | 13.11 | 33.310 | 25.062 | 290.2 | 0.155 | 5.82 | 97.4 | 3.7 | 0.53 | 1.4 | 0.27 | 0.37 | 0.20 | 51 |
| 1 | 60 | 12.87 | 12.86 | 33.326 | 25.124 | 284.6 | 0.181 | 5.56 | 92.6 | 4.7 | 0.64 | 3.5 | 0.19 | 0.24 | 0.16 | 60 |
| 1 | 72 | 12.24 | 12.23 | 33.328 | 25.248 | 273.0 | 0.214 | 5.34 | 87.7 | 6.5 | 0.80 | 6.1 | 0.05 | 0.17 | 0.13 | 73 |
| 1 | 75 ISL | 12.10 | 12.09 | 33.381 | 25.315 | 266.7 | 0.223 | 5.12 | 83.9 | 7.8 | 0.89 | 7.6 | 0.07 | 0.17 | 0.16 | 76 |
| 1 | 84 | 11.67 | 11.66 | 33.553 | 25.529 | 246.5 | 0.246 | 4.42 | 71.8 | 12.2 | 1.15 | 12.3 | 0.13 | 0.18 | 0.24 | 85 |
| 1 | 98 | 10.91 | 10.90 | 33.629 | 25.727 | 228.0 | 0.279 | 3.94 | 63.0 | 16.2 | 1.38 | 16.6 | 0.04 | 0.14 | 0.22 | 99 |
| 100 ISL | 10.79 | 10.78 | 33.643 | 25.759 | 225.0 | 0.283 | 3.88 | 61.9 | 16.9 | 1.41 | 17.2 | 0.04 | 0.13 | 0.21 | 101 | |
| 1 | 120 | 9.78 | 9.77 | 33.793 | 26.049 | 197.6 | 0.326 | 3.33 | 52.0 | 23.7 | 1.71 | 22.6 | 0.01 | 0.03 | 0.13 | 121 |
| 125 ISL | 9.75 | 9.74 | 33.833 | 26.085 | 194.3 | 0.335 | 3.19 | 49.8 | 24.8 | 1.77 | 23.4 | 0.01 | 0.03 | 0.12 | 126 | |
| 1 | 143 | 9.62 | 9.60 | 33.923 | 26.177 | 185.9 | 0.370 | 2.78 | 43.3 | 28.1 | 1.92 | 25.2 | 0.01 | 0.03 | 0.11 | 144 |
| 150 ISL | 9.47 | 9.45 | 33.942 | 26.217 | 182.2 | 0.383 | 2.77 | 43.0 | 29.1 | 1.95 | 25.7 | 0.01 | 0.03 | 0.10 | 151 | |
| 1 | 173 | 8.91 | 8.89 | 33.981 | 26.338 | 171.1 | 0.423 | 2.75 | 42.2 | 32.5 | 2.02 | 27.2 | 0.01 | 0.03 | 0.09 | 174 |
| 200 ISL | 8.38 | 8.36 | 34.043 | 26.469 | 159.0 | 0.468 | 2.51 | 38.0 | 37.6 | 2.16 | 29.6 | 0.01 | 0.02 | 0.09 | 202 | |
| 1 | 202 | 8.35 | 8.33 | 34.048 | 26.477 | 158.2 | 0.471 | 2.48 | 37.5 | 38.0 | 2.17 | 29.8 | 0.01 | 0.02 | 0.09 | 204 |
| 1 | 231 | 8.25 | 8.23 | 34.132 | 26.559 | 151.0 | 0.516 | 1.86 | 28.1 | 43.2 | 2.40 | 31.9 | 0.00 | | | 233 |
| 250 ISL | 8.16 | 8.13 | 34.161 | 26.595 | 147.9 | 0.544 | 1.62 | 24.4 | 45.6 | 2.48 | 32.8 | 0.00 | | | 252 | |
| 1 | 270 | 8.03 | 8.00 | 34.181 | 26.630 | 144.8 | 0.573 | 1.44 | 21.7 | 47.9 | 2.54 | 33.6 | 0.00 | | | 272 |
| 300 ISL | 7.72 | 7.69 | 34.205 | 26.695 | 139.0 | 0.616 | 1.19 | 17.8 | 52.4 | 2.65 | 35.2 | 0.00 | | | 302 | |
| 1 | 326 | 7.43 | 7.40 | 34.224 | 26.752 | 133.9 | 0.651 | 1.00 | 14.8 | 56.6 | 2.75 | 36.5 | 0.00 | | | 329 |
| 1 | 383 | 6.90 | 6.86 | 34.274 | 26.865 | 123.7 | 0.725 | 0.58 | 8.5 | 65.8 | 2.94 | 38.8 | 0.00 | | | 386 |
| 400 ISL | 6.81 | 6.77 | 34.281 | 26.884 | 122.2 | 0.746 | 0.53 | 7.8 | 67.2 | 2.97 | 39.2 | 0.00 | | | 403 | |
| 1 | 450 | 6.56 | 6.52 | 34.291 | 26.925 | 118.8 | 0.806 | 0.46 | 6.7 | 71.0 | 3.02 | 40.1 | 0.00 | | | 454 |
| 500 ISL | 6.10 | 6.06 | 34.289 | 26.984 | 113.5 | 0.864 | 0.39 | 5.6 | 77.9 | 3.10 | 41.6 | 0.00 | | | 504 | |
| 1 | 521 | 5.91 | 5.86 | 34.289 | 27.008 | 111.3 | 0.888 | 0.36 | 5.2 | 80.8 | 3.13 | 42.2 | 0.00 | | | 526 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|--------|-------|-------|-------|
| 33 14.7 N | 121 26.6 W | 12/03/87 | 0128 GMT | 3828 M | 250 | 02 KT | 280 | 08 09 | 1 | 1022.5 MB | 16.8 C | 15.1 C | 4/8 CI | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 14.46 | 14.46 | 33.205 | 24.705 | 322.9 | 0.000 | 6.01 | 103.3 | 2.2 | 0.39 | 0.2 | 0.00 | 0.20 | 0.05 | 0 | |
| 1 | 2 | 14.46 | 14.46 | 33.205 | 24.705 | 322.9 | 0.006 | 6.01 | 103.3 | 2.2 | 0.39 | 0.2 | 0.00 | 0.20 | 0.05 | 2 |
| 1 | 10 ISL | 14.43 | 14.43 | 33.204 | 24.710 | 322.6 | 0.032 | 6.05 | 104.0 | 2.1 | 0.40 | 0.0 | 0.00 | 0.20 | 0.03 | 10 |
| 1 | 12 | 14.42 | 14.42 | 33.204 | 24.713 | 322.4 | 0.039 | 6.06 | 104.1 | 2.1 | 0.40 | 0.0 | 0.00 | 0.20 | 0.03 | 12 |
| 1 | 20 ISL | 14.35 | 14.35 | 33.205 | 24.728 | 321.2 | 0.064 | 6.01 | 103.1 | 2.0 | 0.39 | 0.0 | 0.00 | 0.20 | 0.05 | 20 |
| 1 | 22 | 14.33 | 14.33 | 33.205 | 24.733 | 320.9 | 0.071 | 6.00 | 102.9 | 2.0 | 0.39 | 0.0 | 0.00 | 0.20 | 0.06 | 22 |
| 1 | 30 ISL | 14.24 | 14.24 | 33.203 | 24.750 | 319.4 | 0.097 | 5.98 | 102.4 | 2.1 | 0.38 | 0.0 | 0.00 | 0.24 | 0.08 | 30 |
| 1 | 31 | 14.23 | 14.23 | 33.202 | 24.751 | 319.3 | 0.100 | 5.98 | 102.3 | 2.1 | 0.38 | 0.0 | 0.00 | 0.25 | 0.08 | 31 |
| 1 | 41 | 14.05 | 14.04 | 33.182 | 24.774 | 317.4 | 0.132 | 6.05 | 103.1 | 2.2 | 0.39 | 0.0 | 0.00 | 0.38 | 0.06 | 41 |
| 1 | 50 ISL | 13.97 | 13.96 | 33.182 | 24.791 | 316.1 | 0.160 | 6.04 | 102.8 | 2.4 | 0.39 | 0.1 | 0.01 | 0.42 | 0.08 | 50 |
| 1 | 53 | 13.96 | 13.95 | 33.191 | 24.800 | 315.3 | 0.170 | 6.04 | 102.8 | 2.4 | 0.39 | 0.1 | 0.01 | 0.43 | 0.09 | 53 |
| 1 | 63 | 14.05 | 14.04 | 33.283 | 24.853 | 310.6 | 0.201 | 5.92 | 101.0 | 2.2 | 0.41 | 0.2 | 0.03 | 0.47 | 0.14 | 63 |
| 1 | 71 | 13.23 | 13.22 | 33.272 | 25.011 | 295.6 | 0.225 | 5.65 | 94.8 | 4.0 | 0.58 | 2.5 | 0.13 | 0.33 | 0.20 | 72 |
| 1 | 75 ISL | 12.83 | 12.82 | 33.282 | 25.098 | 287.4 | 0.237 | 5.48 | 91.1 | 5.0 | 0.67 | 4.1 | 0.11 | 0.28 | 0.20 | 76 |
| 1 | 85 | 11.96 | 11.95 | 33.338 | 25.308 | 267.5 | 0.264 | 5.05 | 82.5 | 7.7 | 0.90 | 8.0 | 0.06 | 0.18 | 0.20 | 86 |
| 1 | 99 | 11.26 | 11.25 | 33.457 | 25.530 | 246.7 | 0.300 | 4.56 | 73.4 | 11.6 | 1.14 | 12.0 | 0.02 | 0.08 | 0.11 | 100 |
| 100 ISL | 11.21 | 11.20 | 33.465 | 25.545 | 245.3 | 0.303 | 4.53 | 72.9 | 11.9 | 1.16 | 12.3 | 0.02 | 0.08 | 0.11 | 101 | |
| 1 | U8 | 10.31 | 10.30 | 33.603 | 25.811 | 220.3 | 0.345 | 3.98 | 62.8 | 17.5 | 1.45 | 17.4 | 0.01 | 0.03 | 0.07 | 119 |
| 125 ISL | 10.04 | 10.03 | 33.655 | 25.898 | 212.1 | 0.360 | 3.82 | 59.9 | 19.6 | 1.54 | 19.0 | 0.01 | 0.02 | 0.06 | 126 | |
| 1 | 13 | 9.50 | 9.48 | 33.782 | 26.087 | 194.4 | 0.397 | 3.46 | 53.7 | 24.6 | 1.74 | 22.4 | 0.01 | 0.00 | 0.04 | 144 |
| 150 ISL | 9.35 | 9.33 | 33.832 | 26.150 | 188.5 | 0.410 | 3.29 | 50.9 | 26.3 | 1.80 | 23.4 | 0.01 | 0.00 | 0.04 | 151 | |
| 1 | 172 | 9.02 | 9.00 | 33.954 | 26.299 | 174.7 | 0.450 | 2.87 | 44.1 | 30.7 | 1.94 | 25.5 | 0.01 | 0.00 | 0.03 | 173 |
| 200 ISL | 8.82 | 8.80 | 33.988 | 26.358 | 169.7 | 0.498 | 2.82 | 43.1 | 33.1 | 1.99 | 26.2 | 0.01 | 0.00 | 0.03 | 202 | |
| 1 | 201 | 8.81 | 8.79 | 33.988 | 26.359 | 169.6 | 0.500 | 2.82 | 43.1 | 33.2 | 1.99 | 26.2 | 0.01 | 0.00 | 0.03 | 203 |
| 1 | 229 | 8.40 | 8.38 | 34.051 | 26.472 | 159.2 | 0.546 | 2.48 | 37.6 | 38.1 | 2.14 | 28.4 | 0.01 | | | 231 |
| 250 ISL | 8.22 | 8.19 | 34.086 | 26.527 | 154.3 | 0.579 | 2.19 | 33.1 | 41.1 | 2.26 | 29.8 | 0.01 | | | 252 | |
| 1 | 270 | 8.08 | 8.05 | 34.110 | 26.567 | 150.8 | 0.609 | 1.93 | 29.0 | 43.8 | 2.37 | 31.0 | 0.01 | | | 272 |
| 300 ISL | 7.73 | 7.70 | 34.125 | 26.631 | 145.1 | 0.654 | 1.69 | 25.2 | 48.1 | 2.48 | 32.6 | 0.00 | | | 302 | |
| 1 | 323 | 7.44 | 7.41 | 34.130 | 26.677 | 141.0 | 0.687 | 1.54 | 22.8 | 51.8 | 2.55 | 33.9 | 0.00 | | | 326 |
| 1 | 381 | 6.74 | 6.70 | 34.155 | 26.793 | 130.3 | 0.765 | 1.03 | 15.0 | 63.2 | 2.78 | 37.6 | 0.00 | | | 384 |
| 400 ISL | 6.55 | 6.51 | 34.166 | 26.827 | 127.2 | 0.790 | 0.90 | 13.1 | 66.4 | 2.84 | 38.5 | 0.00 | | | 403 | |
| 1 | 448 | 6.14 | 6.10 | 34.195 | 26.904 | 120.3 | 0.849 | 0.64 | 9.2 | 73.7 | 2.97 | 40.3 | 0.00 | | | 452 |
| 500 ISL | 5.81 | 5.77 | 34.216 | 26.962 | 115.1 | 0.910 | 0.50 | 7.1 | 80.4 | 3.05 | 41.6 | 0.00 | | | 504 | |
| 1 | 520 | 5.69 | 5.65 | 34.225 | 26.984 | 113.2 | 0.933 | 0.44 | 6.3 | 83.0 | 3.08 | 42.1 | 0.00 | | | 525 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|-----------|--------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 54.7 N | 122 7.7 W | 11/03/87 | 2010 2010 | 4257 M | 250 08 KT | 270 05 | 05 10 | 1 | 1024.2 MB | 16.8 C | 15.3 C | 7/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.39 | 14.39 | 33.204 | 24.719 | 321.6 | 0.000 | 6.01 | 103.2 | 2.2 | 0.40 | 0.1 | 0.00 | 0.21 | 0.04 | 0 |
| 1 | 1 ISL | 14.39 | 14.39 | 33.204 | 24.719 | 321.6 | 0.003 | 6.01 | 103.2 | 2.2 | 0.40 | 0.1 | 0.00 | 0.21 | 0.04 | 1 |
| 1 | 10 ISL | 14.15 | 14.15 | 33.195 | 24.762 | 317.7 | 0.032 | 6.04 | 103.2 | 2.1 | 0.40 | 0.1 | 0.00 | 0.23 | 0.03 | 10 |
| 1 | 11 ISL | 14.11 | 14.11 | 33.194 | 24.770 | 317.0 | 0.035 | | | 2.1 | 0.40 | 0.1 | 0.00 | 0.23 | 0.03 | 11 |
| 1 | 20 ISL | 14.00 | 14.00 | 33.192 | 24.791 | 315.2 | 0.064 | 6.08 | 103.6 | 2.1 | 0.40 | 0.1 | 0.00 | 0.28 | 0.05 | 20 |
| 1 | 21 ISL | 13.99 | 13.99 | 33.193 | 24.794 | 315.0 | 0.067 | 6.08 | 103.5 | 2.1 | 0.40 | 0.1 | 0.00 | 0.29 | 0.05 | 21 |
| 1 | 30 ISL | 13.87 | 13.87 | 33.236 | 24.852 | 309.6 | 0.095 | 6.06 | 103.0 | 2.2 | 0.39 | 0.1 | 0.00 | 0.41 | 0.09 | 30 |
| 1 | 31 ISL | 13.86 | 13.86 | 33.241 | 24.858 | 309.1 | 0.098 | 6.06 | 103.0 | 2.2 | 0.39 | 0.1 | 0.00 | 0.43 | 0.10 | 31 |
| 1 | 41 ISL | 13.72 | 13.71 | 33.259 | 24.901 | 305.3 | 0.129 | 6.05 | 102.5 | 2.2 | 0.41 | 0.2 | 0.03 | 0.64 | 0.21 | 41 |
| 1 | 50 ISL | 13.67 | 13.66 | 33.272 | 24.922 | 303.6 | 0.156 | 6.01 | 101.7 | 2.3 | 0.41 | 0.4 | 0.07 | 0.59 | 0.21 | 50 |
| 1 | 51 ISL | 13.67 | 13.66 | 33.275 | 24.924 | 303.4 | 0.159 | 6.00 | 101.6 | 2.3 | 0.41 | 0.4 | 0.08 | 0.59 | 0.21 | 51 |
| 1 | 62 ISL | 13.14 | 13.13 | 33.283 | 25.037 | 292.9 | 0.192 | 5.65 | 94.6 | 4.0 | 0.59 | 3.0 | 0.18 | 0.31 | 0.17 | 62 |
| 1 | 71 ISL | 11.97 | 11.96 | 33.318 | 25.291 | 268.9 | 0.217 | 5.11 | 83.5 | 7.4 | 0.90 | 8.2 | 0.03 | 0.16 | 0.16 | 72 |
| 1 | 75 ISL | 11.75 | 11.74 | 33.330 | 25.341 | 264.1 | 0.228 | 4.99 | 81.1 | 8.2 | 0.97 | 9.4 | 0.03 | 0.13 | 0.15 | 76 |
| 1 | 86 ISL | 11.39 | 11.38 | 33.374 | 25.441 | 254.8 | 0.256 | 4.76 | 76.8 | 10.2 | 1.09 | 11.6 | 0.02 | 0.09 | 0.13 | 87 |
| 1 | 100 ISL | 10.55 | 10.54 | 33.510 | 25.697 | 230.8 | 0.290 | 4.30 | 68.2 | 14.9 | 1.34 | 16.2 | 0.01 | 0.05 | 0.08 | 101 |
| 1 | 121 ISL | 9.85 | 9.84 | 33.677 | 25.947 | 207.3 | 0.336 | 3.74 | 58.5 | 20.8 | 1.59 | 20.6 | 0.00 | 0.02 | 0.05 | 122 |
| 1 | 125 ISL | 9.71 | 9.70 | 33.706 | 25.993 | 203.0 | 0.345 | 3.66 | 57.0 | 21.9 | 1.63 | 21.3 | 0.00 | 0.02 | 0.05 | 126 |
| 1 | 145 ISL | 9.12 | 9.10 | 33.833 | 26.188 | 184.8 | 0.383 | 3.35 | 51.6 | 26.6 | 1.80 | 24.3 | 0.00 | 0.00 | 0.03 | 146 |
| 1 | 150 ISL | 9.03 | 9.01 | 33.857 | 26.221 | 181.7 | 0.393 | 3.29 | 50.5 | 27.6 | 1.83 | 24.8 | 0.00 | 0.00 | 0.03 | 151 |
| 1 | 175 ISL | 8.72 | 8.70 | 33.949 | 26.342 | 170.6 | 0.437 | 3.01 | 45.9 | 31.6 | 1.94 | 26.5 | 0.00 | 0.00 | 0.03 | 176 |
| 1 | 200 ISL | 8.48 | 8.46 | 34.016 | 26.432 | 162.5 | 0.478 | 2.77 | 42.1 | 34.9 | 2.05 | 27.8 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 205 ISL | 8.43 | 8.41 | 34.025 | 26.447 | 161.2 | 0.486 | 2.73 | 41.4 | 35.6 | 2.07 | 28.0 | 0.00 | 0.00 | 0.02 | 207 |
| 1 | 233 ISL | 8.03 | 8.01 | 34.047 | 26.525 | 154.1 | 0.530 | 2.46 | 37.0 | 40.3 | 2.20 | 30.0 | 0.00 | | | 235 |
| 1 | 250 ISL | 7.78 | 7.76 | 34.050 | 26.564 | 150.5 | 0.556 | 2.35 | 35.1 | 43.0 | 2.26 | 31.0 | 0.00 | | | 252 |
| 1 | 273 ISL | 7.47 | 7.44 | 34.054 | 26.612 | 146.3 | 0.590 | 2.20 | 32.6 | 46.9 | 2.34 | 32.3 | 0.00 | | | 275 |
| 1 | 300 ISL | 7.19 | 7.16 | 34.080 | 26.672 | 140.8 | 0.629 | 1.86 | 27.4 | 52.5 | 2.50 | 34.0 | 0.00 | | | 302 |
| 1 | 327 ISL | 6.95 | 6.92 | 34.108 | 26.727 | 135.9 | 0.667 | 1.51 | 22.1 | 57.9 | 2.66 | 35.7 | 0.00 | | | 330 |
| 1 | 386 ISL | 6.45 | 6.42 | 34.133 | 26.814 | 128.2 | 0.744 | 1.09 | 15.8 | 65.3 | 2.80 | 38.3 | 0.00 | | | 389 |
| 1 | 400 ISL | 6.35 | 6.31 | 34.141 | 26.834 | 126.4 | 0.762 | 1.01 | 14.6 | 67.2 | 2.84 | 38.8 | 0.00 | | | 403 |
| 1 | 451 ISL | 6.03 | 5.99 | 34.176 | 26.903 | 120.3 | 0.825 | 0.76 | 10.9 | 74.0 | 2.96 | 40.4 | 0.00 | | | 455 |
| 1 | 500 ISL | 5.77 | 5.73 | 34.221 | 26.971 | 114.3 | 0.883 | 0.56 | 8.0 | 79.9 | 3.05 | 41.4 | 0.00 | | | 504 |
| 1 | 521 ISL | 5.66 | 5.62 | 34.240 | 27.000 | 111.7 | 0.906 | 0.47 | 6.7 | 82.5 | 3.09 | 41.8 | 0.00 | | | 526 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|--------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 34.7 N | 122 48.7 W | 11/03/87 | 1437 1437 | 3733 M | 250 10 KT | 310 09 | 09 09 | 1 | 1022.6 MB | 15.5 C | 14.3 C | 6/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.16 | 14.16 | 33.002 | 24.611 | 331.8 | 0.000 | 6.00 | 102.4 | 1.9 | 0.43 | 0.3 | 0.00 | 0.15 | 0.02 | 0 |
| 1 | 1 ISL | 14.16 | 14.16 | 33.002 | 24.611 | 331.9 | 0.003 | 6.00 | 102.4 | 1.9 | 0.43 | 0.3 | 0.00 | 0.15 | 0.02 | 1 |
| 1 | 10 ISL | 14.14 | 14.14 | 33.005 | 24.618 | 331.4 | 0.033 | 6.10 | 104.1 | 1.9 | 0.41 | 0.2 | 0.00 | 0.16 | 0.02 | 10 |
| 1 | 11 ISL | 14.14 | 14.14 | 33.005 | 24.618 | 331.5 | 0.036 | 6.11 | 104.3 | 1.9 | 0.41 | 0.2 | 0.00 | 0.16 | 0.02 | 11 |
| 1 | 20 ISL | 14.00 | 14.00 | 33.001 | 24.644 | 329.2 | 0.066 | 6.07 | 103.3 | 1.9 | 0.41 | 0.2 | 0.00 | 0.17 | 0.03 | 20 |
| 1 | 22 ISL | 13.96 | 13.96 | 33.000 | 24.651 | 328.6 | 0.073 | 6.05 | 102.9 | 1.9 | 0.41 | 0.2 | 0.00 | 0.17 | 0.03 | 22 |
| 1 | 30 ISL | 13.84 | 13.84 | 32.997 | 24.674 | 326.6 | 0.099 | 6.06 | 102.8 | 2.0 | 0.41 | 0.2 | 0.00 | 0.19 | 0.05 | 30 |
| 1 | 32 ISL | 13.81 | 13.81 | 33.001 | 24.683 | 325.8 | 0.106 | 6.06 | 102.7 | 2.0 | 0.41 | 0.2 | 0.00 | 0.19 | 0.05 | 32 |
| 1 | 41 ISL | 13.67 | 13.66 | 33.082 | 24.775 | 317.4 | 0.134 | 6.02 | 101.8 | 2.1 | 0.44 | 0.2 | 0.05 | 0.53 | 0.15 | 41 |
| 1 | 49 ISL | 13.50 | 13.49 | 33.128 | 24.845 | 310.9 | 0.160 | 5.89 | 99.3 | 2.7 | 0.49 | 1.0 | 0.28 | 0.39 | 0.17 | 49 |
| 1 | 50 ISL | 13.46 | 13.45 | 33.129 | 24.854 | 310.1 | 0.163 | 5.88 | 99.0 | 2.7 | 0.50 | 1.1 | 0.27 | 0.38 | 0.17 | 50 |
| 1 | 59 ISL | 13.13 | 13.12 | 33.136 | 24.926 | 303.4 | 0.190 | 5.83 | 97.5 | 3.1 | 0.56 | 2.0 | 0.16 | 0.27 | 0.18 | 59 |
| 1 | 69 ISL | 12.87 | 12.86 | 33.190 | 25.019 | 294.8 | 0.220 | 5.81 | 96.7 | 3.8 | 0.58 | 2.5 | 0.20 | 0.17 | 0.14 | 70 |
| 1 | 75 ISL | 12.55 | 12.54 | 33.198 | 25.087 | 288.4 | 0.238 | 5.66 | 93.5 | 4.7 | 0.67 | 4.0 | 0.13 | 0.13 | 0.11 | 76 |
| 1 | 83 ISL | 12.02 | 12.02 | 33.215 | 25.200 | 277.8 | 0.260 | 5.37 | 87.8 | 6.4 | 0.83 | 6.8 | 0.02 | 0.10 | 0.08 | 84 |
| 1 | 96 ISL | 11.14 | 11.13 | 33.330 | 25.453 | 254.0 | 0.295 | 4.78 | 76.7 | 10.5 | 1.12 | 12.0 | 0.01 | 0.06 | 0.07 | 97 |
| 1 | 100 ISL | 10.87 | 10.86 | 33.358 | 25.522 | 247.4 | 0.305 | 4.65 | 74.2 | 11.8 | 1.20 | 13.4 | 0.01 | 0.05 | 0.07 | 101 |
| 1 | 116 ISL | 9.97 | 9.96 | 33.463 | 25.760 | 225.0 | 0.343 | 4.25 | 66.5 | 16.8 | 1.46 | 18.0 | 0.01 | 0.02 | 0.05 | 117 |
| 1 | 125 ISL | 9.72 | 9.71 | 33.524 | 25.849 | 216.7 | 0.363 | 4.08 | 63.5 | 18.7 | 1.54 | 19.5 | 0.01 | 0.02 | 0.05 | 126 |
| 1 | 141 ISL | 9.43 | 9.41 | 33.636 | 25.984 | 204.1 | 0.396 | 3.82 | 59.1 | 21.7 | 1.65 | 21.4 | 0.00 | 0.01 | 0.04 | 142 |
| 1 | 150 ISL | 9.22 | 9.20 | 33.719 | 26.083 | 194.8 | 0.414 | 3.61 | 55.6 | 24.2 | 1.73 | 22.8 | 0.00 | 0.01 | 0.04 | 151 |
| 1 | 170 ISL | 8.78 | 8.76 | 33.883 | 26.281 | 176.3 | 0.451 | 3.23 | 49.3 | 29.5 | 1.88 | 25.4 | 0.01 | 0.00 | 0.03 | 171 |
| 1 | 199 ISL | 8.32 | 8.30 | 33.963 | 26.415 | 164.0 | 0.501 | 3.17 | 47.9 | 33.3 | 1.95 | 26.6 | 0.00 | 0.00 | 0.03 | 201 |
| 1 | 200 ISL | 8.31 | 8.29 | 33.966 | 26.419 | 163.7 | 0.502 | 3.15 | 47.6 | 33.5 | 1.96 | 26.7 | 0.0 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 14.6 N | 123 29.5 W | 11/03/87 | 0926 GMT | 4114 M | 220 | 13 KT | | | 1022.1 MB | 15.4 C | 14.2 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.22 | 14.22 | 33.006 | 24.601 | 332.7 | 0.000 | 6.04 | 103.2 | 2.8 | 0.40 | 0.2 | 0.00 | 0.17 | 0.01 | 0 |
| 1 | 2 | 14.22 | 14.22 | 33.006 | 24.601 | 332.7 | 0.007 | 6.04 | 103.2 | 2.8 | 0.40 | 0.2 | 0.00 | 0.17 | 0.01 | 2 |
| 1 | 10 ISL | 14.03 | 14.03 | 33.008 | 24.643 | 329.1 | 0.033 | 6.07 | 103.3 | 2.8 | 0.40 | 0.2 | 0.00 | 0.18 | 0.02 | 10 |
| 1 | 16 | 13.82 | 13.82 | 33.018 | 24.694 | 324.3 | 0.053 | 6.11 | 103.6 | 2.9 | 0.40 | 0.2 | 0.00 | 0.18 | 0.04 | 16 |
| 1 | 20 ISL | 13.69 | 13.69 | 33.033 | 24.732 | 320.8 | 0.066 | 6.13 | 103.7 | 2.9 | 0.40 | 0.2 | 0.00 | 0.21 | 0.06 | 20 |
| 1 | 30 | 13.41 | 13.41 | 33.077 | 24.823 | 312.4 | 0.097 | 6.18 | 103.9 | 3.0 | 0.40 | 0.2 | 0.00 | 0.31 | 0.12 | 30 |
| 1 | 41 | 13.32 | 13.31 | 33.115 | 24.871 | 308.2 | 0.131 | 6.23 | 104.6 | 3.0 | 0.40 | 0.2 | 0.00 | 0.46 | 0.16 | 41 |
| 1 | 50 | 13.21 | 13.20 | 33.135 | 24.909 | 304.8 | 0.159 | 6.14 | 102.9 | 3.0 | 0.42 | 0.3 | 0.06 | 0.87 | 0.34 | 50 |
| 1 | 60 | 13.08 | 13.07 | 33.157 | 24.952 | 301.0 | 0.189 | 6.00 | 100.2 | 3.2 | 0.45 | 0.7 | 0.16 | 0.76 | 0.34 | 60 |
| 1 | 70 | 12.82 | 12.81 | 33.206 | 25.041 | 292.7 | 0.219 | 5.84 | 97.1 | 4.1 | 0.56 | 2.5 | 0.26 | 0.44 | 0.24 | 71 |
| 1 | 75 ISL | 12.46 | 12.45 | 33.281 | 25.169 | 280.6 | 0.233 | 5.50 | 90.8 | 6.0 | 0.72 | 5.4 | 0.13 | 0.27 | 0.20 | 76 |
| 1 | 78 | 12.22 | 12.21 | 33.328 | 25.251 | 272.8 | 0.242 | 5.27 | 86.6 | 7.3 | 0.83 | 7.4 | 0.04 | 0.18 | 0.18 | 79 |
| 1 | 93 | 11.17 | 11.16 | 33.413 | 25.512 | 248.3 | 0.281 | 4.50 | 72.3 | 12.2 | 1.22 | 13.8 | 0.01 | 0.07 | 0.13 | 94 |
| 1 | 100 ISL | 10.78 | 10.77 | 33.461 | 25.619 | 238.2 | 0.298 | 4.33 | 69.0 | 13.9 | 1.31 | 15.6 | 0.01 | 0.04 | 0.10 | 101 |
| 1 | 109 | 10.34 | 10.33 | 33.524 | 25.744 | 226.4 | 0.319 | 4.17 | 65.8 | 16.0 | 1.40 | 17.3 | 0.00 | 0.02 | 0.07 | 110 |
| 1 | 123 | 9.78 | 9.77 | 33.619 | 25.913 | 210.5 | 0.349 | 3.87 | 60.4 | 19.8 | 1.57 | 20.2 | 0.01 | 0.01 | 0.05 | 124 |
| 1 | 125 ISL | 9.73 | 9.72 | 33.632 | 25.931 | 208.8 | 0.353 | 3.83 | 59.7 | 20.2 | 1.59 | 20.5 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 147 | 9.25 | 9.23 | 33.757 | 26.108 | 192.4 | 0.398 | 3.53 | 54.5 | 24.4 | 1.72 | 23.1 | 0.01 | 0.00 | 0.04 | 148 |
| 1 | 150 ISL | 9.16 | 9.14 | 33.768 | 26.131 | 190.3 | 0.403 | 3.52 | 54.2 | 25.0 | 1.73 | 23.4 | 0.01 | 0.00 | 0.04 | 151 |
| 1 | 172 | 8.55 | 8.53 | 33.843 | 26.285 | 175.9 | 0.444 | 3.48 | 52.9 | 28.8 | 1.83 | 25.0 | 0.01 | 0.00 | 0.06 | 173 |
| 1 | 200 ISL | 8.30 | 8.28 | 33.955 | 26.412 | 164.3 | 0.491 | 3.21 | 48.5 | 33.0 | 1.94 | 26.6 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 203 | 8.29 | 8.27 | 33.966 | 26.422 | 163.5 | 0.496 | 3.17 | 47.9 | 33.5 | 1.95 | 26.8 | 0.00 | 0.00 | 0.03 | 205 |
| 1 | 230 | 7.92 | 7.90 | 34.013 | 26.514 | 155.0 | 0.539 | 2.70 | 40.5 | 39.3 | 2.13 | 29.3 | 0.00 | | | 232 |
| 1 | 250 ISL | 7.60 | 7.58 | 34.024 | 26.569 | 150.0 | 0.570 | 2.48 | 36.9 | 43.3 | 2.23 | 30.8 | 0.00 | | | 252 |
| 1 | 271 | 7.29 | 7.26 | 34.033 | 26.621 | 145.3 | 0.601 | 2.26 | 33.4 | 47.4 | 2.33 | 32.2 | 0.00 | | | 273 |
| 1 | 300 ISL | 7.07 | 7.04 | 34.076 | 26.685 | 139.5 | 0.642 | 1.79 | 26.3 | 52.7 | 2.50 | 34.1 | 0.00 | | | 302 |
| 1 | 325 | 6.93 | 6.90 | 34.114 | 26.735 | 135.1 | 0.676 | 1.40 | 20.5 | 57.0 | 2.64 | 35.6 | 0.00 | | | 328 |
| 1 | 385 | 6.40 | 6.37 | 34.140 | 26.826 | 126.9 | 0.755 | 0.99 | 14.3 | 65.7 | 2.83 | 38.3 | 0.00 | | | 388 |
| 1 | 400 ISL | 6.27 | 6.23 | 34.149 | 26.850 | 124.8 | 0.774 | 0.89 | 12.8 | 68.1 | 2.87 | 38.9 | 0.00 | | | 403 |
| 1 | 452 | 5.91 | 5.87 | 34.186 | 26.926 | 118.1 | 0.837 | 0.61 | 8.7 | 75.8 | 3.00 | 40.4 | 0.01 | | | 456 |
| 1 | 500 ISL | 5.75 | 5.71 | 34.228 | 26.979 | 113.5 | 0.892 | 0.47 | 6.7 | 80.7 | 3.08 | 41.1 | 0.01 | | | 504 |
| 1 | 523 | 5.63 | 5.63 | 34.249 | 27.006 | 111.2 | 0.918 | 0.40 | 5.7 | 83.0 | 3.12 | 41.5 | 0.01 | | | 528 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 33

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|--------|--------|-------|
| 33 53.3 N | 118 29.5 W | 09/03/87 | 0048 GMT | 60 M | 230 | 08 KT | 230 03 06 | 1 | 1016.4 MB | 16.5 C | 12.7 C | 7/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S 103 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.87 | 14.87 | 33.391 | 24.760 | 317.5 | 0.000 | 6.29 | 109.2 | 1.7 | 0.30 | 0.2 | 0.00 | 0.45 | 0.07 | 0 |
| 1 | 1 | 14.87 | 14.87 | 33.391 | 24.760 | 317.6 | 0.003 | 6.29 | 109.2 | 1.7 | 0.30 | 0.2 | 0.00 | 0.45 | 0.07 | 1 |
| 1 | 10 ISL | 14.64 | 14.64 | 33.380 | 24.802 | 313.9 | 0.032 | 6.73 | 116.3 | 1.9 | 0.28 | 0.1 | 0.01 | 0.76 | 0.11 | 10 |
| 1 | 11 | 14.60 | 14.60 | 33.379 | 24.809 | 313.2 | 0.035 | 6.79 | 117.2 | 1.9 | 0.28 | 0.1 | 0.01 | 0.80 | 0.11 | 11 |
| 1 | 20 ISL | 14.28 | 14.28 | 33.383 | 24.880 | 306.7 | 0.063 | 6.94 | 119.0 | 2.4 | 0.35 | 0.2 | 0.02 | 26.93 | 0.06 | 20 |
| 1 | 21 A | 14.24 | 14.24 | 33.384 | 24.890 | 305.9 | 0.066 | 6.96 | 119.3 | 2.5 | 0.36 | 0.2 | 0.02 | 29.86 | 0.06 | 21 |
| 1 | 30 ISL | 14.00 | 14.00 | 33.392 | 24.946 | 300.8 | 0.093 | 6.69 | 114.1 | 3.4 | 0.39 | 0.3 | 0.04 | 22.41 | 0.14 | 30 |
| 1 | 32 A | 13.94 | 13.94 | 33.394 | 24.960 | 299.5 | 0.099 | 6.60 | 112.4 | 3.6 | 0.40 | 0.4 | 0.05 | 17.63U | -0.79U | 32 |
| 1 | 42 | 13.52 | 13.51 | 33.409 | 25.058 | 290.4 | 0.128 | 6.09 | 102.8 | 4.7 | 0.44 | 1.1 | 0.09 | 0.85 | 0.25 | 42 |
| 1 | 50 ISL | 13.17 | 13.16 | 33.422 | 25.139 | 282.9 | 0.151 | 5.63 | 94.4 | 6.3 | 0.62 | 2.9 | 0.13 | 1.20 | 0.23 | 50 |
| 1 | 52 | 13.08 | 13.07 | 33.425 | 25.159 | 281.0 | 0.157 | 5.51 | 92.2 | 6.7 | 0.67 | 3.4 | 0.14 | 1.29 | 0.22 | 52 |

A) UNUSUAL VALUES OF CHLOROPHYLL-A AND PHAEOPIGMENTS AT 21 AND 32 M MAY BE DUE TO THE PROXIMITY OF THIS STATION TO THE HYPERION WASTE-WATER OUTFALL.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 34

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 51.2 N | 118 33.8 W | 09/03/87 | 0208 GMT | 81 M | 230 | 13 KT | 230 03 06 | 1 | 1017.0 MB | 15.2 C | 12.8 C | 7/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.98 | 14.98 | 33.400 | 24.744 | 319.1 | 0.000 | 6.08 | 105.8 | 1.9 | 0.33 | 0.2 | 0.00 | 0.18 | 0.05 | 0 |
| 1 | 1 | 14.98 | 14.98 | 33.400 | 24.744 | 319.2 | 0.003 | 6.08 | 105.8 | 1.9 | 0.33 | 0.2 | 0.00 | 0.18 | 0.05 | 1 |
| 1 | 10 ISL | 14.87 | 14.87 | 33.396 | 24.765 | 317.4 | 0.032 | 6.20 | 107.6 | 1.9 | 0.33 | 0.2 | 0.00 | 0.19 | 0.05 | 10 |
| 1 | 11 | 14.85 | 14.85 | 33.396 | 24.769 | 317.1 | 0.035 | 6.21 | 107.7 | 1.9 | 0.33 | 0.2 | 0.00 | 0.19 | 0.05 | 11 |
| 1 | 20 ISL | 14.76 | 14.76 | 33.396 | 24.789 | 315.5 | 0.063 | 6.13 | 106.2 | 1.8 | 0.33 | 0.2 | 0.00 | 0.52 | 0.05 | 20 |
| 1 | 21 | 14.75 | 14.75 | 33.396 | 24.791 | 315.3 | 0.067 | 6.12 | 106.0 | 1.8 | 0.33 | 0.2 | 0.00 | 0.57 | 0.05 | 21 |
| 1 | 30 ISL | 14.49 | 14.49 | 33.396 | 24.846 | 310.3 | 0.095 | 6.03 | 103.9 | 2.2 | 0.36 | 0.4 | 0.02 | 0.90 | 0.13 | 30 |
| 1 | 32 | 14.41 | 14.41 | 33.396 | 24.863 | 308.7 | 0.101 | 6.00 | 103.2 | 2.3 | 0.37 | 0.5 | 0.03 | 0.97 | 0.15 | 32 |
| 1 | 42 | 13.92 | 13.91 | 33.391 | 24.962 | 299.6 | 0.131 | 5.77 | 98.2 | 3.3 | 0.50 | 1.7 | 0.09 | 1.30 | 0.29 | 42 |
| 1 | 50 ISL | 13.36 | 13.35 | 33.390 | 25.076 | 288.9 | 0.155 | 5.57 | 93.7 | 4.8 | 0.63 | 3.4 | 0.17 | 1.46 | 0.25 | 50 |
| 1 | 52 | 13.23 | 13.22 | 33.392 | 25.104 | 286.4 | 0.161 | 5.52 | 92.6 | 5.2 | 0.66 | 3.8 | 0.19 | 1.47 | 0.23 | 52 |
| 1 | 62 | 12.84 | 12.83 | 33.412 | 25.197 | 277.7 | 0.189 | 5.30 | 88.2 | 6.6 | 0.80 | 5.5 | 0.20 | 1.20 | 0.16 | 62 |
| 1 | 72 | 12.36 | 12.35 | 33.454 | 25.322 | 265.9 | 0.216 | 4.91 | 80.9 | 8.9 | 1.01 | 8.3 | 0.34 | 0.26 | 0.23 | 73 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|--------|--------|-------|
| 33 49.4 N | 118 37.7 W | 09/03/87 | 0313 | 685 M | 260 | 12 KT | | | 1017.1 MB | 15.0 C | 13.0 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.99 | 14.99 | 33.403 | 24.744 | 319.1 | 0.000 | 6.04 | 105.1 | 1.8 | 0.32 | 0.2 | 0.00 | 0.21 | 0.05 | 0.05 | 0 |
| 1 | 1 | 14.99 | 14.99 | 33.403 | 24.744 | 319.2 | 0.003 | 6.04 | 105.1 | 1.8 | 0.32 | 0.2 | 0.00 | 0.21 | 0.05 | 0.05 | 1 |
| 1 | 10 ISL | 14.93 | 14.93 | 33.399 | 24.754 | 318.5 | 0.032 | 6.08 | 105.7 | 1.7 | 0.32 | 0.2 | 0.00 | 0.21 | 0.05 | 0.05 | 10 |
| 1 | 11 | 14.92 | 14.92 | 33.399 | 24.756 | 318.3 | 0.035 | 6.09 | 105.8 | 1.7 | 0.32 | 0.2 | 0.00 | 0.21 | 0.05 | 0.05 | 11 |
| 1 | 20 | 14.84 | 14.84 | 33.401 | 24.775 | 316.8 | 0.064 | 6.12 | 106.2 | 1.6 | 0.33 | 0.2 | 0.00 | 0.27 | 0.06 | 0.06 | 20 |
| 1 | 30 ISL | 14.43 | 14.43 | 33.400 | 24.862 | 308.7 | 0.095 | 6.53 | 112.3 | 1.7 | 0.30 | 0.2 | 0.00 | 1.75 | 0.06 | 0.06 | 30 |
| 1 | 31 | 14.37 | 14.37 | 33.400 | 24.875 | 307.6 | 0.098 | 6.56 | 112.7 | 1.7 | 0.30 | 0.2 | 0.00 | 1.87 | 0.06 | 0.06 | 31 |
| 1 | 40 | 13.81 | 13.80 | 33.398 | 24.990 | 296.8 | 0.125 | 6.19 | 105.1 | 2.9 | 0.40 | 0.9 | 0.05 | 1.18 | 0.16 | 0.16 | 40 |
| 1 | 50 | 13.53 | 13.52 | 33.393 | 25.044 | 292.0 | 0.155 | 5.85 | 98.8 | 4.1 | 0.53 | 1.9 | 0.10 | 1.05 | 0.29 | 0.29 | 50 |
| 1 | 60 | 13.21 | 13.20 | 33.398 | 25.112 | 285.7 | 0.184 | 5.61 | 94.1 | 5.3 | 0.67 | 3.4 | 0.15 | 1.71 | 0.11 | 0.11 | 60 |
| 1 | 70 A | 12.60 | 12.59 | 33.25 | 25.254 | 272.5 | 0.211 | 5.10 | 84.5 | 7.4 | 0.87 | 6.8 | 0.20 | 0.29 | A 0.14 | A 0.14 | 71 |
| 1 | 75 ISL | 12.35 | 12.34 | 33.4~6 | 25.318 | 266.4 | 0.225 | 4.93 | 81.2 | 8.0 | 0.93 | 8.0 | 0.16 | 0.24 | 0.17 | 0.17 | 76 |
| 1 | 85 | 11.80 | 11.79 | 33.503 | 25.466 | 252.5 | 0.251 | 4.63 | 75.4 | 9.6 | 1.04 | 10.6 | 0.05 | 0.15 | 0.21 | 0.21 | 86 |
| 1 | 99 | 10.63 | 10.62 | 33.622 | 25.770 | 223.8 | 0.284 | 4.09 | 65.0 | 15.4 | 1.36 | 16.5 | 0.02 | 0.06 | 0.15 | 0.15 | 100 |
| 1 | 100 ISL | 10.58 | 10.57 | 33.632 | 25.787 | 222.2 | 0.286 | 4.05 | 64.3 | 15.8 | 1.38 | 16.8 | 0.02 | 0.06 | 0.15 | 0.15 | 101 |
| 1 | 118 | 10.02 | 10.01 | 33.801 | 26.015 | 200.8 | 0.325 | 3.40 | 53.4 | 22.2 | 1.68 | 21.3 | 0.01 | 0.02 | 0.08 | 0.08 | 119 |
| 1 | 125 ISL | 9.91 | 9.90 | 33.858 | 26.078 | 195.0 | 0.338 | 3.18 | 49.8 | 24.3 | 1.77 | 22.5 | 0.01 | 0.02 | 0.07 | 0.07 | 126 |
| 1 | 143 | 9.75 | 9.73 | 33.976 | 26.197 | 184.0 | 0.372 | 2.73 | 42.6 | 28.5 | 1.95 | 24.8 | 0.01 | 0.01 | 0.06 | 0.06 | 144 |
| 1 | 150 ISL | 9.68 | 9.66 | 34.009 | 26.235 | 180.6 | 0.385 | 2.62 | 40.9 | 29.6 | 2.00 | 25.4 | 0.01 | 0.01 | 0.06 | 0.06 | 151 |
| 1 | 174 | 9.42 | 9.40 | 34.077 | 26.331 | 171.9 | 0.428 | 2.41 | 37.4 | 32.1 | 2.09 | 26.6 | 0.01 | 0.02 | 0.07 | 0.07 | 175 |
| 1 | 200 ISL | 9.00 | 8.98 | 34.072 | 26.395 | 166.2 | 0.471 | 2.47 | 38.0 | 33.7 | 2.12 | 27.2 | 0.01 | 0.01 | 0.05 | 0.05 | 202 |
| 1 | 204 | 8.93 | 8.91 | 34.069 | 26.404 | 165.4 | 0.478 | 2.49 | 38.2 | 33.9 | 2.12 | 27.3 | 0.01 | 0.01 | 0.05 | 0.05 | 206 |
| 1 | 231 | 8.60 | 8.58 | 34.086 | 26.469 | 159.6 | 0.522 | 2.37 | 36.1 | 36.8 | 2.18 | 28.6 | 0.01 | 0.01 | 0.33 | 0.33 | 233 |
| 1 | 250 ISL | 8.54 | 8.51 | 34.116 | 26.502 | 156.9 | 0.552 | 2.16 | 32.9 | 38.7 | 2.26 | 29.4 | 0.01 | 0.01 | 0.33 | 0.33 | 252 |
| 1 | 272 | 8.50 | 8.47 | 34.153 | 26.538 | 153.9 | 0.586 | 1.89 | 28.7 | 41.1 | 2.36 | 30.3 | 0.01 | 0.01 | 0.33 | 0.33 | 274 |
| 1 | 300 ISL | 8.22 | 8.19 | 34.175 | 26.598 | 148.6 | 0.629 | 1.64 | 24.8 | 44.9 | 2.48 | 31.5 | 0.00 | 0.00 | 0.33 | 0.33 | 302 |
| 1 | 325 | 7.93 | 7.90 | 34.187 | 26.651 | 143.8 | 0.665 | 1.45 | 21.8 | 48.4 | 2.57 | 32.5 | 0.00 | 0.00 | 0.33 | 0.33 | 328 |
| 1 | 384 | 7.43 | 7.39 | 34.209 | 26.741 | 136.0 | 0.748 | 1.11 | 16.5 | 55.8 | 2.72 | 35.1 | 0.00 | 0.00 | 0.33 | 0.33 | 387 |
| 1 | 400 ISL | 7.27 | 7.23 | 34.218 | 26.771 | 133.3 | 0.769 | 1.00 | 14.8 | 58.5 | 2.78 | 35.8 | 0.00 | 0.00 | 0.33 | 0.33 | 403 |
| 1 | 450 | 6.80 | 6.76 | 34.251 | 26.862 | 125.0 | 0.834 | 0.66 | 9.6 | 66.6 | 2.95 | 37.8 | 0.00 | 0.00 | 0.33 | 0.33 | 454 |
| 1 | 500 ISL | 6.56 | 6.51 | 34.288 | 26.924 | 119.7 | 0.895 | 0.47 | 6.8 | 71.5 | 3.04 | 38.8 | 0.00 | 0.00 | 0.33 | 0.33 | 504 |
| 1 | 520 | 6.47 | 6.42 | 34.303 | 26.948 | 117.7 | 0.919 | 0.40 | 5.8 | 73.4 | 3.08 | 39.2 | 0.00 | 0.00 | 0.33 | 0.33 | 525 |

A) SECOND FLOUROMETER READING NOT RECORDED. CHLOROPHYLL AND PHAEOPHYTIN CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 37.5

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|--------|-------|
| 33 44.4 N | 118 48.1 W | 09/03/87 | 0649 | 909 M | 260 | 07 KT | | | 1017.9 MB | 15.0 C | 13.0 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 A | 15.05 | 15.05 | 33.403 | 24.731 | 320.4 | 0.000 | 6.01 | 104.7 | 1.1 | 0.32 | 0.2 | 0.01 | 0.23 | 0.07 | 0.07 | 0 |
| 1 | 10 ISL | 14.93 | 14.93 | 33.401 | 24.755 | 318.3 | 0.032 | 5.99 | 104.1 | 1.1 | 0.32 | 0.2 | 0.00 | 0.23 | 0.06 | 0.06 | 10 |
| 1 | 11 | 14.92 | 14.92 | 33.401 | 24.758 | 318.2 | 0.035 | 5.99 | 104.1 | 1.1 | 0.32 | 0.2 | 0.00 | 0.23 | 0.06 | 0.06 | 11 |
| 1 | 20 ISL | 14.53 | 14.53 | 33.406 | 24.845 | 310.1 | 0.063 | 6.03 | 104.0 | 1.5 | 0.32 | 0.2 | 0.00 | 0.24 | 0.08 | 0.08 | 20 |
| 1 | 21 | 14.49 | 14.49 | 33.407 | 24.855 | 309.2 | 0.066 | 6.03 | 103.9 | 1.5 | 0.32 | 0.2 | 0.00 | 0.24 | 0.08 | 0.08 | 21 |
| 1 | 30 | 14.38 | 14.38 | 33.412 | 24.882 | 306.9 | 0.094 | 5.97 | 102.6 | 1.4 | 0.34 | 0.2 | 0.00 | 0.49 | 0.24 | 0.24 | 30 |
| 1 | 41 | 14.10 | 14.09 | 33.426 | 24.952 | 300.5 | 0.128 | 6.07 | 103.7 | 0.9 | 0.34 | 0.2 | 0.01 | 0.63 | 0.31 | 0.31 | 41 |
| 1 | 50 ISL | 13.41 | 13.40 | 33.427 | 25.094 | 287.2 | 0.154 | 5.41 | 91.2 | 4.3 | 0.63 | 3.2 | 0.23 | 0.53 | 0.33 | 0.33 | 50 |
| 1 | 51 | 13.33 | 13.32 | 33.427 | 25.111 | 285.6 | 0.157 | 5.33 | 89.7 | 4.7 | 0.66 | 3.6 | 0.25 | 0.51 | 0.33 | 0.33 | 51 |
| 1 | 61 | 12.88 | 12.87 | 33.445 | 25.214 | 276.0 | 0.185 | 5.05 | 84.2 | 7.0 | 0.79 | 6.0 | 0.25 | 0.40 | 0.38 | 0.38 | 61 |
| 1 | 71 | 12.14 | 12.13 | 33.483 | 25.387 | 259.8 | 0.212 | 4.63 | 76.0 | 9.0 | 0.98 | 9.3 | 0.07 | 0.30 | 0.32 | 0.32 | 72 |
| 1 | 75 ISL | 11.88 | 11.88 | 33.509 | 25.454 | 253.5 | 0.222 | 4.48 | 73.1 | 10.1 | 1.06 | 10.6 | 0.06 | 0.26 | 0.30 | 0.30 | 76 |
| 1 | 85 | 11.35 | 11.34 | 33.582 | 25.611 | 238.7 | 0.247 | 4.15 | 67.0 | 12.9 | 1.23 | 13.4 | 0.03 | 0.18 | 0.25 | 0.25 | 86 |
| 1 | 100 | 10.79 | 10.78 | 33.680 | 25.787 | 222.2 | 0.281 | 3.73 | 59.5 | 16.5 | 1.43 | 16.7 | 0.02 | 0.10 | 0.15 | 0.15 | 101 |
| 1 | 120 | 10.33 | 10.32 | 33.772 | 25.939 | 208.1 | 0.324 | 3.38 | 53.4 | 20.2 | 1.59 | 19.4 | 0.01 | 0.03 | 0.14 | 0.14 | 121 |
| 1 | 125 ISL | 10.17 | 10.16 | 33.785 | 25.977 | 204.6 | 0.335 | 3.37 | 53.1 | 21.0 | 1.62 | 20.0 | 0.01 | 0.03 | 0.13 | 0.13 | 126 |
| 1 | 145 | 9.54 | 9.52 | 33.831 | 26.119 | 191.5 | 0.374 | 3.31 | 51.4 | 24.0 | 1.70 | 22.2 | 0.01 | 0.02 | 0.08 | 0.08 | 146 |
| 1 | 150 ISL | 9.43 | 9.41 | 33.844 | 26.147 | 188.9 | 0.384 | 3.29 | 51.0 | 24.7 | 1.73 | 22.6 | 0.01 | 0.02 | 0.08 | 0.08 | 151 |
| 1 | 175 | 9.03 | 9.01 | 33.915 | 26.267 | 177.9 | 0.430 | 3.11 | 47.8 | 28.0 | 1.86 | 24.3 | 0.01 | 0.01 | 0.08 | 0.08 | 176 |
| 1 | 200 ISL | 8.80 | 8.78 | 33.997 | 26.368 | 168.7 | 0.473 | 2.75 | 42.1 | 31.9 | 2.01 | 26.2 | 0.00 | 0.01 | 0.12 | 0.12 | 202 |
| 1 | 204 | 8.77 | 8.75 | 34.010 | 26.383 | 167.4 | 0.480 | 2.68 | 41.0 | 32.5 | 2.03 | 26.5 | 0.00 | 0.01 | 0.13 | 0.13 | 206 |
| 1 | 232 | 8.54 | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 39.5

| CAST | DEPTH | TEMP | POT TEMP | SALINITY | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE |
|---------|--------|-------|----------|----------|-----------|--------|--------|--------|-------|---------|-----------|--------|------|-------|-------|-------|-------|
| | | | | | | | | | | | 1017.1 MB | 14.9 C | | | | | |
| M | DEG C | DEG C | DEG C | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAE0 | PRESS | D.BAR |
| THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | |
| 1 | 0 A | 14.95 | 14.95 | 33.403 | 24.752 | 318.3 | 0.000 | 5.93 | 103.1 | 1.4 | 0.32 | 0.2 | 0.00 | 0.19 | 0.04 | 0 | |
| 1 | 10 | 14.94 | 14.94 | 33.403 | 24.755 | 318.4 | 0.032 | 5.93 | 103.1 | 1.3 | 0.32 | 0.2 | 0.00 | 0.18 | 0.05 | 10 | |
| 1 | 20 | 14.63 | 14.63 | 33.407 | 24.825 | 312.0 | 0.063 | 6.00 | 103.6 | 1.1 | 0.31 | 0.2 | 0.00 | 0.25 | 0.08 | 20 | |
| | 30 ISL | 14.33 | 14.33 | 33.424 | 24.902 | 305.0 | 0.094 | 6.15 | 105.6 | 0.6 | 0.30 | 0.2 | 0.00 | 0.30 | 0.15 | 30 | |
| 1 | 31 | 14.30 | 14.30 | 33.426 | 24.910 | 304.3 | 0.097 | 6.16 | 105.7 | 0.6 | 0.30 | 0.2 | 0.00 | 0.31 | 0.16 | 31 | |
| 1 | 41 | 13.97 | 13.96 | 33.428 | 24.980 | 297.8 | 0.127 | 5.94 | 101.3 | 2.2 | 0.39 | 0.5 | 0.03 | 0.54 | 0.18 | 41 | |
| 1 | 50 | 13.87 | 13.86 | 33.427 | 25.001 | 296.1 | 0.154 | 5.78 | 98.3 | 3.0 | 0.45 | 1.1 | 0.10 | 0.52 | 0.25 | 50 | |
| 1 | 61 | 13.02 | 13.01 | 33.437 | 25.180 | 279.2 | 0.186 | 5.15 | 86.1 | 6.2 | 0.74 | 5.6 | 0.28 | 0.40 | 0.30 | 61 | |
| 1 | 75 | 12.20 | 12.19 | 33.478 | 25.372 | 261.3 | 0.224 | 4.66 | 76.6 | 9.0 | 0.96 | 9.5 | 0.07 | 0.22 | 0.30 | 76 | |
| 1 | 90 | 11.17 | 11.16 | 33.633 | 25.683 | 232.0 | 0.261 | 3.93 | 63.2 | 15.3 | 1.31 | 15.3 | 0.05 | 0.17 | 0.25 | 91 | |
| 100 ISL | 10.73 | 10.72 | 33.701 | 25.814 | 219.6 | 0.283 | 3.66 | 58.3 | 17.9 | 1.46 | 17.7 | 0.03 | 0.10 | 0.18 | 101 | | |
| 1 | 110 | 10.41 | 10.40 | 33.751 | 25.909 | 210.8 | 0.305 | 3.48 | 55.1 | 19.7 | 1.56 | 19.3 | 0.01 | 0.04 | 0.11 | 111 | |
| 125 ISL | 10.07 | 10.06 | 33.811 | 26.014 | 201.0 | 0.336 | 3.25 | 51.1 | 22.2 | 1.66 | 21.1 | 0.01 | 0.04 | 0.10 | 126 | | |
| 134 | 9.90 | 9.88 | 33.842 | 26.067 | 196.2 | 0.353 | 3.14 | 49.2 | 23.6 | 1.71 | 22.0 | 0.01 | 0.04 | 0.10 | 135 | | |
| 150 ISL | 9.53 | 9.51 | 33.907 | 26.180 | 185.8 | 0.384 | 2.96 | 46.0 | 26.4 | 1.82 | 23.6 | 0.01 | 0.02 | 0.08 | 151 | | |
| 164 | 9.23 | 9.21 | 33.962 | 26.272 | 177.3 | 0.409 | 2.82 | 43.5 | 28.9 | 1.91 | 24.9 | 0.01 | 0.01 | 0.06 | 165 | | |
| 193 | 8.83 | 8.81 | 34.047 | 26.402 | 165.3 | 0.459 | 2.48 | 38.0 | 33.8 | 2.07 | 26.7 | 0.01 | 0.07 | 0.195 | | | |
| 200 ISL | 8.79 | 8.77 | 34.064 | 26.422 | 163.6 | 0.471 | 2.38 | 36.4 | 34.7 | 2.11 | 27.1 | 0.00 | 0.01 | 0.07 | 202 | | |
| 222 | 8.72 | 8.70 | 34.109 | 26.469 | 159.6 | 0.506 | 2.07 | 31.6 | 37.1 | 2.23 | 28.3 | 0.00 | 0.01 | 0.06 | 224 | | |
| 250 ISL | 8.58 | 8.55 | 34.145 | 26.519 | 155.3 | 0.550 | 1.82 | 27.7 | 39.2 | 2.31 | 29.3 | 0.00 | | 0.00 | 252 | | |
| 261 | 8.51 | 8.48 | 34.155 | 26.538 | 153.7 | 0.567 | 1.74 | 26.5 | 40.1 | 2.34 | 29.6 | 0.00 | | 0.00 | 263 | | |
| 300 ISL | 8.11 | 8.08 | 34.193 | 26.628 | 145.6 | 0.626 | 1.38 | 20.8 | 45.8 | 2.50 | 31.4 | 0.00 | | 0.00 | 302 | | |
| 315 | 7.93 | 7.90 | 34.206 | 26.666 | 142.3 | 0.647 | 1.24 | 18.6 | 48.3 | 2.56 | 32.2 | 0.00 | | 0.00 | 318 | | |
| 372 | 7.29 | 7.25 | 34.238 | 26.783 | 131.6 | 0.725 | 0.84 | 12.4 | 57.1 | 2.78 | 34.9 | 0.00 | | 0.00 | 375 | | |
| 400 ISL | 7.11 | 7.07 | 34.265 | 26.830 | 127.5 | 0.762 | 0.67 | 9.9 | 60.7 | 2.86 | 35.7 | 0.00 | | 0.00 | 403 | | |
| 435 | 6.92 | 6.88 | 34.296 | 26.881 | 123.1 | 0.805 | 0.50 | 7.3 | 64.9 | 2.93 | 36.5 | 0.00 | | 0.00 | 439 | | |
| 500 ISL | 6.43 | 6.38 | 34.320 | 26.966 | 115.6 | 0.883 | 0.34 | 4.9 | 72.9 | 3.03 | 37.9 | 0.01 | | 0.01 | 504 | | |
| 504 | 6.40 | 6.35 | 34.321 | 26.971 | 115.2 | 0.888 | 0.33 | 4.8 | 73.4 | 3.04 | 38.0 | 0.01 | | 0.01 | 508 | | |
| 576 | 5.93 | 5.88 | 34.354 | 27.057 | 107.4 | 0.968 | 0.22 | 3.2 | 82.5 | 3.13 | 38.9 | 0.01 | | 0.01 | 581 | | |
| 600 ISL | 5.82 | 5.77 | 34.357 | 27.074 | 106.1 | 0.993 | 0.21 | 3.0 | 84.8 | 3.15 | 38.9 | 0.01 | | 0.01 | 605 | | |
| 651 | 5.60 | 5.54 | 34.360 | 27.104 | 103.6 | 1.047 | 0.20 | 2.8 | 89.5 | 3.18 | 38.9 | 0.01 | | 0.01 | 657 | | |
| 700 ISL | 5.37 | 5.31 | 34.373 | 27.142 | 100.3 | 1.097 | 0.18 | 2.5 | 95.3 | 3.22 | 38.2 | 0.00 | | 0.00 | 706 | | |
| 724 | 5.28 | 5.22 | 34.379 | 27.157 | 99.0 | 1.121 | 0.17 | 2.4 | 98.2 | 3.24 | 37.6 | 0.00 | | 0.00 | 731 | | |
| 799 | 5.17 | 5.10 | 34.386 | 27.177 | 97.9 | 1.194 | 0.07 | 1.0 | 106.3 | 3.32 | 33.7 | 0.01 | | 0.01 | 806 | | |
| 800 ISL | 5.17 | 5.10 | 34.386 | 27.177 | 97.9 | 1.195 | 0.07 | 1.0 | 106.4 | 3.32 | 33.6 | 0.01 | | 0.01 | 808 | | |
| 876 | 5.13 | 5.06 | 34.390 | 27.185 | 97.9 | 1.270 | 0.04 | 0.6 | 112.8 | 3.38 | 28.5 | 0.01 | | 0.01 | 884 | | |

A) SANTA MONICA BASIN STATION.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 42

| CAST | DEPTH | TEMP | POT TEMP | SALINITY | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE |
|---------|-------|-------|----------|----------|-----------|--------|--------|--------|-------|---------|-----------|--------|------|-------|-------|-------|-------|
| | | | | | | | | | | | 1016.5 MB | 14.9 C | | | | | |
| M | DEG C | DEG C | DEG C | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAE0 | PRESS | D.BAR |
| THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | |
| 1 | 0 | 14.73 | 14.73 | 33.390 | 24.790 | 314.8 | 0.000 | 5.95 | 103.0 | 1.7 | 0.35 | 0.0 | 0.00 | 0.18 | 0.05 | 0 | |
| 1 | 9 | 14.69 | 14.69 | 33.389 | 24.798 | 314.3 | 0.028 | 6.06 | 104.8 | 1.8 | 0.36 | 0.0 | 0.00 | 0.19 | 0.06 | 9 | |
| 10 ISL | 14.68 | 14.68 | 33.390 | 24.801 | 314.0 | 0.031 | 6.06 | 104.8 | 1.8 | 0.36 | 0.0 | 0.00 | 0.19 | 0.06 | 10 | | |
| 20 ISL | 14.53 | 14.53 | 33.394 | 24.836 | 311.0 | 0.063 | 6.01 | 103.6 | 1.6 | 0.35 | 0.1 | 0.00 | 0.21 | 0.05 | 20 | | |
| 1 | 21 | 14.52 | 14.52 | 33.394 | 24.838 | 310.8 | 0.066 | 6.01 | 103.6 | 1.6 | 0.35 | 0.1 | 0.00 | 0.21 | 0.05 | 21 | |
| 1 | 30 | 14.03 | 14.03 | 33.390 | 24.938 | 301.5 | 0.093 | 5.84 | 99.7 | 2.3 | 0.44 | 0.7 | 0.07 | 0.53 | 0.27 | 30 | |
| 1 | 38 | 13.79 | 13.78 | 33.396 | 24.993 | 296.5 | 0.117 | 5.78 | 98.1 | 2.9 | 0.49 | 1.6 | 0.10 | 0.58 | 0.27 | 38 | |
| 1 | 48 | 13.09 | 13.08 | 33.397 | 25.135 | 283.2 | 0.146 | 5.38 | 90.0 | 5.2 | 0.69 | 4.8 | 0.13 | 0.62 | 0.49 | 48 | |
| 50 ISL | 12.99 | 12.98 | 33.415 | 25.169 | 280.0 | 0.152 | 5.28 | 88.2 | 5.8 | 0.73 | 5.4 | 0.14 | 0.58 | 0.48 | 50 | | |
| 1 | 59 | 12.48 | 12.47 | 33.509 | 25.342 | 263.8 | 0.176 | 4.81 | 79.5 | 9.1 | 0.95 | 8.7 | 0.17 | 0.36 | 0.38 | 59 | |
| 1 | 70 | 11.51 | 11.50 | 33.582 | 25.581 | 241.2 | 0.204 | 4.20 | 68.0 | 13.2 | 1.25 | 13.9 | 0.07 | 0.22 | 0.27 | 71 | |
| 75 ISL | 11.26 | 11.25 | 33.622 | 25.658 | 234.0 | 0.216 | 4.01 | 64.6 | 15.1 | 1.34 | 15.6 | 0.07 | 0.19 | 0.26 | 76 | | |
| 1 | 84 | 10.97 | 10.96 | 33.687 | 25.761 | 224.4 | 0.237 | 3.77 | 60.4 | 18.0 | 1.47 | 17.8 | 0.07 | 0.17 | 0.24 | 85 | |
| 1 | 100 | 10.55 | 10.54 | 33.746 | 25.881 | 213.3 | 0.272 | 3.54 | 56.2 | 20.4 | 1.60 | 19.7 | 0.04 | 0.11 | 0.23 | 101 | |
| 1 | 119 | 10.25 | 10.24 | 33.806 | 25.980 | 204.3 | 0.311 | 3.21 | 50.7 | 23.5 | 1.72 | 21.7 | 0.03 | 0.11 | 0.18 | 120 | |
| 125 ISL | 10.18 | 10.17 | 33.817 | 26.000 | 202.4 | 0.324 | 3.15 | 49.6 | 24.0 | 1.75 | 22.1 | 0.03 | 0.13 | 0.23 | 126 | | |
| 1 | 144 | 9.92 | 9.90 | 33.862 | 26.080 | 195.2 | 0.361 | 2.97 | 46.5 | 25.8 | 1.85 | 23.7 | 0.03 | 0.16 | 0.38 | 145 | |
| 150 ISL | 9.79 | 9.77 | 33.892 | 26.125 | 191.0 | 0.373 | 2.86 | 44.7 | 27.2 | 1.90 | 24.5 | 0.03 | 0.14 | 0.37 | 151 | | |
| 1 | 169 | 9.37 | 9.35 | 33.994 | 26.274 | 177.2 | 0.408 | 2.47 | 38.3 | 32.1 | 2.09 | 27.1 | 0.01 | 0.07 | 0.29 | 170 | |
| 1 | 194 | 8.91 | 8.89 | 34.091 | 26.424 | 163.3 | 0.450 | 2.05 | 31.4 | 37.2 | 2.28 | 29.7 | 0.00 | 0.03 | 0.19 | 196 | |
| 200 ISL | 8.82 | 8.80 | 34.107 | 26.451 | 160.9 | 0.460 | 1.96 | 30.0 | 38.5 | 2.32 | 30.2 | 0.00 | | 0. | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| | | | 1549 GMT | 1679 M | 300 | 10 KT | 290 02 | 06 | 1 | 1019.0 MB | 16.7 C | 14.1 C | 6/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | 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 | D.BAR |
| 1 | 0 | 14.41 | 14.41 | 33.419 | 24.880 | 306.2 | 0.000 | 6.13 | 105.4 | 0.8 | 0.30 | 0.2 | 0.00 | 0.47 | 0.11 | 0 |
| 1 | 9 | 14.25 | 14.25 | 33.414 | 24.910 | 303.6 | 0.027 | 6.12 | 104.9 | 0.8 | 0.30 | 0.2 | 0.00 | 0.54 | 0.17 | 9 |
| 1 | 10 ISL | 14.24 | 14.24 | 33.414 | 24.912 | 303.4 | 0.030 | 6.12 | 104.9 | 0.8 | 0.30 | 0.2 | 0.00 | 0.56 | 0.18 | 10 |
| 1 | 20 | 14.16 | 14.16 | 33.420 | 24.934 | 301.6 | 0.061 | 6.13 | 104.9 | 0.7 | 0.31 | 0.2 | 0.00 | 0.91 | 0.25 | 20 |
| 1 | 30 | 14.03 | 14.03 | 33.423 | 24.964 | 299.1 | 0.091 | 6.08 | 103.8 | 0.9 | 0.34 | 0.2 | 0.01 | 1.37 | 0.30 | 30 |
| 1 | 40 | 13.24 | 13.23 | 33.457 | 25.151 | 281.4 | 0.120 | 5.44 | 91.4 | 4.7 | 0.64 | 3.9 | 0.14 | 0.76 | 0.47 | 40 |
| 1 | 49 | 13.10 | 13.09 | 33.464 | 25.185 | 278.5 | 0.145 | 5.28 | 88.4 | 5.1 | 0.71 | 4.8 | 0.16 | 0.77 | 0.40 | 49 |
| 1 | 50 ISL | 13.00 | 12.99 | 33.466 | 25.207 | 276.5 | 0.148 | 5.22 | 87.2 | 5.5 | 0.74 | 5.3 | 0.16 | 0.73 | 0.39 | 50 |
| 1 | 59 | 12.04 | 12.03 | 33.500 | 25.418 | 256.4 | 0.172 | 4.59 | 75.2 | 9.9 | 1.03 | 10.4 | 0.11 | 0.39 | 0.31 | 59 |
| 1 | 69 | 11.53 | 11.52 | 33.561 | 25.561 | 243.1 | 0.197 | 4.21 | 68.2 | 13.0 | 1.21 | 13.4 | 0.06 | 0.30 | 0.27 | 70 |
| 1 | 75 ISL | 11.23 | 11.22 | 33.605 | 25.650 | 234.8 | 0.211 | 3.99 | 64.3 | 14.9 | 1.33 | 15.2 | 0.04 | 0.23 | 0.24 | 76 |
| 1 | 83 | 10.87 | 10.86 | 33.663 | 25.760 | 224.4 | 0.229 | 3.72 | 59.5 | 17.2 | 1.47 | 17.4 | 0.02 | 0.14 | 0.20 | 84 |
| 1 | 98 | 10.42 | 10.41 | 33.742 | 25.900 | 211.4 | 0.262 | 3.38 | 53.5 | 20.8 | 1.63 | 20.2 | 0.02 | 0.07 | 0.15 | 99 |
| 100 ISL | 10.38 | 10.37 | 10.37 | 33.751 | 25.914 | 210.1 | 0.266 | 3.35 | 53.0 | 21.1 | 1.65 | 20.5 | 0.02 | 0.06 | 0.15 | 101 |
| 1 | 119 | 10.04 | 10.03 | 33.823 | 26.029 | 199.6 | 0.305 | 3.09 | 48.5 | 23.7 | 1.77 | 22.4 | 0.01 | 0.03 | 0.11 | 120 |
| 125 ISL | 9.94 | 9.93 | 9.93 | 33.847 | 26.064 | 196.3 | 0.317 | 3.01 | 47.2 | 24.7 | 1.81 | 23.0 | 0.01 | 0.03 | 0.10 | 126 |
| 1 | 144 | 9.64 | 9.62 | 33.920 | 26.172 | 186.4 | 0.353 | 2.76 | 43.0 | 27.9 | 1.93 | 24.8 | 0.01 | 0.02 | 0.08 | 145 |
| 150 ISL | 9.57 | 9.55 | 9.55 | 33.939 | 26.198 | 184.1 | 0.365 | 2.69 | 41.8 | 28.7 | 1.96 | 25.2 | 0.01 | 0.02 | 0.08 | 151 |
| 1 | 173 | 9.34 | 9.32 | 34.004 | 26.287 | 176.0 | 0.406 | 2.44 | 37.8 | 31.5 | 2.08 | 26.6 | 0.00 | 0.02 | 0.07 | 174 |
| 200 ISL | 8.99 | 8.97 | 8.97 | 34.080 | 26.403 | 165.5 | 0.452 | 2.11 | 32.4 | 35.6 | 2.22 | 28.5 | 0.00 | 0.02 | 0.08 | 202 |
| 1 | 202 | 8.96 | 8.94 | 34.085 | 26.412 | 164.7 | 0.455 | 2.09 | 32.1 | 35.9 | 2.23 | 28.6 | 0.00 | 0.02 | 0.08 | 204 |
| 1 | 231 | 8.71 | 8.69 | 34.131 | 26.487 | 158.0 | 0.502 | 1.85 | 28.3 | 39.5 | 2.34 | 30.0 | 0.00 | | | 233 |
| 250 ISL | 8.53 | 8.50 | 8.50 | 34.151 | 26.531 | 154.1 | 0.532 | 1.71 | 26.0 | 41.6 | 2.41 | 30.7 | 0.00 | | | 252 |
| 1 | 271 | 8.33 | 8.30 | 34.170 | 26.577 | 150.1 | 0.564 | 1.55 | 23.5 | 44.1 | 2.48 | 31.5 | 0.00 | | | 273 |
| 300 ISL | 8.02 | 7.99 | 7.99 | 34.201 | 26.648 | 143.7 | 0.606 | 1.26 | 18.9 | 49.0 | 2.61 | 33.0 | 0.01 | | | 302 |
| 1 | 324 | 7.76 | 7.73 | 34.226 | 26.706 | 138.4 | 0.640 | 1.03 | 15.4 | 53.2 | 2.71 | 34.2 | 0.01 | | | 327 |
| 1 | 382 | 7.27 | 7.23 | 34.274 | 26.815 | 128.9 | 0.718 | 0.63 | 9.3 | 61.4 | 2.91 | 36.5 | 0.01 | | | 385 |
| 400 ISL | 7.13 | 7.09 | 7.09 | 34.282 | 26.841 | 126.6 | 0.741 | 0.56 | 8.3 | 63.6 | 2.95 | 37.0 | 0.01 | | | 403 |
| 1 | 448 | 6.79 | 6.75 | 34.297 | 26.899 | 121.5 | 0.800 | 0.43 | 6.3 | 69.1 | 3.02 | 38.0 | 0.00 | | | 452 |
| 500 ISL | 6.47 | 6.42 | 6.42 | 34.315 | 26.957 | 116.5 | 0.862 | 0.34 | 4.9 | 74.4 | 3.09 | 38.9 | 0.00 | | | 504 |
| 1 | 518 | 6.36 | 6.31 | 34.321 | 26.976 | 114.8 | 0.883 | 0.31 | 4.5 | 76.3 | 3.12 | 39.2 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| | | | 2127 GMT | 81 M | 320 | 15 KT | 290 05 | 08 | 1 | 1018.5 MB | 16.0 C | 13.7 C | 6/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | 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 | D.BAR |
| 0 ISL | 14.46 | 14.46 | 14.46 | 33.405 | 24.859 | 308.2 | 0.000 | 6.11 | 105.2 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.06 | 0 |
| 1 | 1 | 14.46 | 14.46 | 33.405 | 24.859 | 308.2 | 0.003 | 6.11 | 105.2 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.06 | 1 |
| 10 ISL | 14.41 | 14.41 | 14.41 | 33.400 | 24.866 | 307.8 | 0.031 | 6.11 | 105.1 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.07 | 10 |
| 1 | 11 | 14.40 | 14.40 | 33.400 | 24.868 | 307.7 | 0.034 | 6.11 | 105.1 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.07 | 11 |
| 20 ISL | 14.36 | 14.36 | 14.36 | 33.402 | 24.878 | 306.9 | 0.062 | 6.11 | 105.0 | 1.2 | 0.30 | 0.1 | 0.00 | 0.41 | 0.11 | 20 |
| 1 | 21 | 14.35 | 14.35 | 33.402 | 24.880 | 306.8 | 0.065 | 6.11 | 104.9 | 1.2 | 0.30 | 0.1 | 0.00 | 0.41 | 0.11 | 21 |
| 30 ISL | 14.15 | 14.15 | 14.15 | 33.385 | 24.909 | 304.2 | 0.092 | 6.11 | 104.5 | 1.4 | 0.33 | 0.1 | 0.00 | 0.66 | 0.16 | 30 |
| 1 | 32 | 14.09 | 14.09 | 33.382 | 24.920 | 303.4 | 0.098 | 6.11 | 104.4 | 1.4 | 0.34 | 0.1 | 0.00 | 0.73 | 0.17 | 32 |
| 1 | 42 | 13.75 | 13.74 | 33.400 | 25.004 | 295.5 | 0.128 | 5.89 | 99.9 | 2.8 | 0.46 | 1.0 | 0.05 | 0.90 | 0.24 | 42 |
| 50 ISL | 13.45 | 13.44 | 13.44 | 33.424 | 25.084 | 288.2 | 0.151 | 5.59 | 94.3 | 4.5 | 0.59 | 2.9 | 0.09 | 0.72 | 0.32 | 50 |
| 1 | 52 | 13.37 | 13.36 | 33.430 | 25.105 | 286.2 | 0.157 | 5.51 | 92.8 | 4.9 | 0.62 | 3.4 | 0.10 | 0.68 | 0.34 | 52 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| | | | 0131 GMT | 1226 M | 320 | 23 KT | 300 09 | 09 | 1 | 1018.2 MB | 14.8 C | 12.6 C | 3/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | 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 | D.BAR |
| 0 ISL | 14.42 | 14.42 | 14.42 | 33.365 | 24.836 | 310.3 | 0.000 | 6.05 | 104.1 | 0.5 | 0.33 | 0.2 | 0.00 | 0.37 | 0.08 | 0 |
| 1 | 1 | 14.42 | 14.42 | 33.365 | 24.837 | 310.6 | 0.031 | 6.05 | 104.0 | 0.5 | 0.34 | 0.2 | 0.00 | 0.37 | 0.09 | 1 |
| 10 ISL | 14.41 | 14.41 | 14.41 | 33.400 | 24.866 | 307.8 | 0.031 | 6.11 | 105.1 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.07 | 10 |
| 1 | 11 | 14.40 | 14.40 | 33.400 | 24.868 | 307.7 | 0.034 | 6.11 | 105.1 | 1.2 | 0.30 | 0.1 | 0.00 | 0.40 | 0.07 | 11 |
| 20 ISL | 14.43 | 14.43 | 14.43 | 33.366 | 24.856 | 311.0 | 0.062 | 6.06 | 104.2 | 0.4 | 0.34 | 0.2 | 0.00 | 0.38 | 0.10 | 20 |
| 1 | 21 | 14.43 | 14.43 | 33.366 | 24.836 | 311.0 | 0.065 | 6.06 | 104.2 | 0.4 | 0.34 | 0.2 | 0.00 | 0.38 | 0.10 | 21 |
| 30 ISL | 14.37 | 14.37 | 14.37 | 33.420 | 24.979 | 298.2 | 0.154 | 5.77 | 98.3 | 1.9 | 0.44 | 1.2 | 0.06 | 0.74 | 0.43 | 50 |
| 1 | 51 | 13.91 | 13.90 | 33.424 | 24.990 | 297.2 | 0.157 | 5.73 | 97.5 | 2.1 | 0.46 | 1.4 | 0.07 | 0.75 | 0.45 | 51 |
| 61 | 13.34 | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | CALCOFI CRUISE 8703 | | | | | | | | STATION | 87 | 60 | | |
|-----------|------------|-----------|-----------|---------------------|--------|--------|--------|--------|-------|---------|-----------|---------|------|-------|--------|-------|
| | | | | 0600 | GMT | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | 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 | D.BAR |
| 32 59.4 N | 120 21.0 W | 10/03/87 | | | | | | | | | | | | | | |
| 1 | 0 ISL | 14.23 | 14.23 | 33.247 | 24.785 | 315.2 | 0.000 | 6.00 | 102.7 | 2.0 | 0.38 | 0.2 | 0.00 | 0.28 | 0.06 | 0 |
| 1 | 1 | 14.23 | 14.23 | 33.247 | 24.785 | 315.3 | 0.003 | 6.00 | 102.7 | 2.0 | 0.38 | 0.2 | 0.00 | 0.28 | 0.06 | 1 |
| 1 | 10 ISL | 14.24 | 14.24 | 33.246 | 24.783 | 315.7 | 0.032 | 6.08 | 104.1 | 2.1 | 0.38 | 0.2 | 0.00 | 0.29 | 0.07 | 10 |
| 1 | 11 | 14.24 | 14.24 | 33.246 | 24.783 | 315.8 | 0.035 | 6.09 | 104.3 | 2.1 | 0.38 | 0.2 | 0.00 | 0.29 | 0.07 | 11 |
| 1 | 20 ISL | 14.25 | 14.25 | 33.245 | 24.780 | 316.3 | 0.063 | 6.03 | 103.3 | 2.0 | 0.38 | 0.2 | 0.00 | 0.28 | 0.06 | 20 |
| 1 | 21 | 14.25 | 14.25 | 33.245 | 24.780 | 316.3 | 0.066 | 6.02 | 103.1 | 2.0 | 0.38 | 0.2 | 0.00 | 0.28 | 0.06 | 21 |
| 1 | 30 | 14.25 | 14.25 | 33.245 | 24.781 | 316.5 | 0.095 | 5.99 | 102.6 | 2.0 | 0.39 | 0.2 | 0.00 | 0.31 | 0.07 | 30 |
| 1 | 41 | 14.05 | 14.04 | 33.250 | 24.826 | 312.4 | 0.129 | 6.05 | 103.2 | 2.0 | 0.39 | 0.3 | 0.01 | 0.42 | 0.08 | 41 |
| 1 | 50 ISL | 13.73 | 13.72 | 33.262 | 24.902 | 305.5 | 0.157 | 6.07 | 102.9 | 2.3 | 0.42 | 0.5 | 0.03 | 0.54 | 0.14 | 50 |
| 1 | 52 | 13.65 | 13.64 | 33.269 | 24.924 | 303.5 | 0.163 | 6.08 | 102.9 | 2.4 | 0.43 | 0.6 | 0.04 | 0.56 | 0.16 | 52 |
| 1 | 61 | 13.32 | 13.31 | 33.342 | 25.047 | 291.9 | 0.190 | 6.00 | 100.9 | 3.3 | 0.48 | 1.5 | 0.09 | 0.53 | 0.22 | 61 |
| 1 | 70 | 13.25 | 13.24 | 33.394 | 25.102 | 287.0 | 0.216 | 5.93 | 99.6 | 3.8 | 0.52 | 2.1 | 0.13 | 0.41 | 0.19 | 71 |
| 1 | 75 ISL | 12.89 | 12.88 | 33.385 | 25.166 | 280.9 | 0.230 | 5.66 | 94.3 | 5.0 | 0.64 | 4.1 | 0.12 | 0.32 | 0.16 | 76 |
| 1 | 84 | 12.02 | 12.01 | 33.375 | 25.326 | 265.9 | 0.255 | 5.08 | 83.1 | 7.7 | 0.89 | 8.5 | 0.09 | 0.18 | 0.13 | 85 |
| 1 | 99 | 10.73 | 10.72 | 33.517 | 25.671 | 233.2 | 0.292 | 4.59 | 73.1 | 12.3 | 1.18 | 13.8 | 0.02 | 0.12 | 0.16 | 100 |
| 1 | 100 ISL | 10.67 | 10.66 | 33.527 | 25.689 | 231.5 | 0.295 | 4.55 | 72.3 | 12.7 | 1.20 | 14.2 | 0.02 | 0.12 | 0.16 | 101 |
| 1 | 119 | 9.86 | 9.85 | 33.693 | 25.958 | 206.3 | 0.336 | 3.88 | 60.7 | 19.6 | 1.54 | 19.8 | 0.01 | 0.04 | 0.16 | 120 |
| 1 | 125 ISL | 9.71 | 9.70 | 33.730 | 26.011 | 201.2 | 0.349 | 3.73 | 58.1 | 21.2 | 1.60 | 20.7 | 0.01 | 0.03 | 0.13 | 126 |
| 1 | 143 | 9.39 | 9.37 | 33.826 | 26.139 | 189.4 | 0.384 | 3.31 | 51.2 | 25.6 | 1.76 | 22.9 | 0.00 | 0.01 | 0.04 | 144 |
| 1 | 150 ISL | 9.26 | 9.24 | 33.875 | 26.198 | 183.9 | 0.397 | 3.07 | 47.4 | 27.8 | 1.85 | 24.2 | 0.00 | 0.01 | 0.04 | 151 |
| 1 | 173 | 8.91 | 8.89 | 34.020 | 26.368 | 168.2 | 0.437 | 2.33 | 35.7 | 34.4 | 2.14 | 27.9 | 0.00 | 0.01 | 0.04 | 174 |
| 1 | 200 ISL | 8.79 | 8.77 | 34.095 | 26.446 | 161.3 | 0.482 | 1.90 | 29.1 | 38.3 | 2.31 | 29.6 | 0.00 | 0.01 | 0.04 | 202 |
| 1 | 203 | 8.79 | 8.77 | 34.099 | 26.449 | 161.1 | 0.487 | 1.87 | 28.6 | 38.6 | 2.32 | 29.7 | 0.00 | 0.01 | 0.04 | 205 |
| 1 | 232 | 8.73 | 8.71 | 34.127 | 26.481 | 158.6 | 0.533 | 1.72 | 26.3 | 39.9 | 2.36 | 30.3 | 0.00 | | | 234 |
| 1 | 250 ISL | 8.58 | 8.55 | 34.158 | 26.529 | 154.3 | 0.561 | 1.54 | 23.5 | 42.3 | 2.44 | 31.2 | 0.00 | | | 252 |
| 1 | 270 | 8.37 | 8.34 | 34.193 | 26.589 | 149.0 | 0.591 | 1.33 | 20.2 | 45.4 | 2.54 | 32.2 | 0.00 | | | 272 |
| 1 | 300 ISL | 8.14 | 8.11 | 34.213 | 26.640 | 144.6 | 0.635 | 1.17 | 17.6 | 48.5 | 2.62 | 33.1 | 0.00 | | | 302 |
| 1 | 325 | 7.95 | 7.92 | 34.216 | 26.670 | 142.0 | 0.671 | 1.10 | 16.5 | 50.8 | 2.66 | 33.8 | 0.00 | | | 328 |
| 1 | 385 | 7.32 | 7.28 | 34.211 | 26.758 | 134.3 | 0.754 | 0.97 | 14.4 | 57.4 | 2.76 | 35.7 | 0.00 | | | 388 |
| 1 | 400 ISL | 7.19 | 7.15 | 34.218 | 26.782 | 132.1 | 0.774 | 0.90 | 13.3 | 59.2 | 2.80 | 36.2 | 0.00 | | | 403 |
| 1 | 450 | 6.81 | 6.77 | 34.248 | 26.858 | 125.4 | 0.838 | 0.66 | 9.6 | 65.3 | 2.92 | 37.7 | 0.00 | | | 454 |
| 1 | 500 ISL | 6.48 | 6.43 | 34.273 | 26.922 | 119.7 | 0.900 | 0.50 | 7.3 | 71.0 | 3.00 | 38.9 | 0.00 | | | 504 |
| 1 | 519 | 6.35 | 6.30 | 34.282 | 26.947 | 117.6 | 0.922 | 0.44 | 6.4 | 73.1 | 3.03 | 39.4 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | CALCOFI CRUISE 8703 | | | | | | | | STATION | 87 | 70 | | |
|-----------|-----------|-----------|-----------|---------------------|--------|--------|--------|--------|-------|---------|-----------|---------|------|-------|--------|-------|
| | | | | 1117 | GMT | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | 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 | D.BAR |
| 32 39.4 N | 121 2.0 W | 10/03/87 | | | | | | | | | | | | | | |
| 1 | 0 ISL | 14.45 | 14.45 | 33.260 | 24.749 | 318.6 | 0.000 | 6.00 | 103.2 | 1.0 | 0.37 | 0.2 | 0.00 | 0.25 | 0.07 | 0 |
| 1 | 1 | 14.45 | 14.45 | 33.260 | 24.749 | 318.7 | 0.003 | 6.00 | 103.2 | 1.0 | 0.37 | 0.2 | 0.00 | 0.25 | 0.07 | 1 |
| 1 | 10 ISL | 14.46 | 14.46 | 33.259 | 24.747 | 319.2 | 0.032 | 6.06 | 104.2 | 1.0 | 0.37 | 0.2 | 0.00 | 0.25 | 0.07 | 10 |
| 1 | 15 | 14.46 | 14.46 | 33.258 | 24.746 | 319.4 | 0.048 | 6.10 | 104.9 | 1.0 | 0.37 | 0.2 | 0.00 | 0.25 | 0.07 | 15 |
| 1 | 20 ISL | 14.45 | 14.45 | 33.265 | 24.753 | 318.8 | 0.064 | 6.09 | 104.7 | 1.0 | 0.37 | 0.2 | 0.00 | 0.25 | 0.07 | 20 |
| 1 | 29 | 14.39 | 14.39 | 33.266 | 24.767 | 317.8 | 0.092 | 6.06 | 104.1 | 1.1 | 0.36 | 0.2 | 0.00 | 0.26 | 0.08 | 29 |
| 1 | 30 ISL | 14.38 | 14.38 | 33.277 | 24.778 | 316.8 | 0.096 | 6.06 | 104.1 | 1.0 | 0.36 | 0.2 | 0.00 | 0.27 | 0.08 | 30 |
| 1 | 39 | 14.22 | 14.21 | 33.362 | 24.877 | 307.6 | 0.124 | 6.08 | 104.1 | 0.6 | 0.35 | 0.2 | 0.00 | 0.34 | 0.15 | 39 |
| 1 | 49 | 13.82 | 13.81 | 33.331 | 24.937 | 302.2 | 0.154 | 5.84 | 99.2 | 1.9 | 0.46 | 1.3 | 0.06 | 0.73 | 0.33 | 49 |
| 1 | 50 ISL | 13.76 | 13.75 | 33.330 | 24.948 | 301.1 | 0.157 | 5.81 | 98.6 | 2.1 | 0.48 | 1.5 | 0.07 | 0.72 | 0.33 | 50 |
| 1 | 58 | 13.26 | 13.25 | 33.338 | 25.056 | 291.0 | 0.181 | 5.54 | 93.0 | 3.8 | 0.61 | 3.6 | 0.14 | 0.55 | 0.30 | 58 |
| 1 | 69 | 12.91 | 12.90 | 33.386 | 25.163 | 281.1 | 0.212 | 5.35 | 89.2 | 5.6 | 0.70 | 5.3 | 0.18 | 0.40 | 0.28 | 70 |
| 1 | 75 ISL | 11.98 | 11.97 | 33.401 | 25.353 | 263.0 | 0.229 | 5.04 | 82.4 | 8.1 | 0.90 | 8.7 | 0.08 | 0.25 | 0.21 | 76 |
| 1 | 76 | 11.81 | 11.80 | 33.405 | 25.388 | 259.7 | 0.231 | 4.98 | 81.1 | 8.6 | 0.93 | 9.3 | 0.06 | 0.22 | 0.20 | 77 |
| 1 | 92 | 10.78 | 10.77 | 33.521 | 25.665 | 233.6 | 0.271 | 4.56 | 72.7 | 13.0 | 1.19 | 14.0 | 0.02 | 0.09 | 0.15 | 93 |
| 1 | 100 ISL | 10.41 | 10.40 | 33.614 | 25.802 | 220.7 | 0.289 | 4.06 | 64.2 | 16.9 | 1.40 | 17.4 | 0.01 | 0.06 | 0.14 | 101 |
| 1 | 105 | 10.24 | 10.23 | 33.667 | 25.873 | 214.1 | 0.300 | 3.77 | 59.4 | 19.1 | 1.52 | 19.2 | 0.01 | 0.05 | 0.13 | 106 |
| 1 | 120 | 10.11 | 10.10 | 33.704 | 25.924 | 209.6 | 0.332 | 3.61 | 56.8 | 20.4 | 1.58 | 20.2 | 0.01 | 0.04 | 0.10 | 121 |
| 1 | 125 ISL | 9.96 | 9.95 | 33.726 | 25.967 | 205.6 | 0.342 | 3.52 | 55.2 | 21.5 | 1.63 | 21.0 | 0.01 | 0.03 | 0.09 | 126 |
| 1 | 144 | 9.29 | 9.27 | 33.822 | 26.152 | 188.2 | 0.379 | 3.17 | 49.0 | 26.6 | 1.83 | 24.4 | 0.00 | 0.00 | 0.04 | 145 |
| 1 | 150 ISL | 9.14 | 9.12 | 33.851 | 26.199 | 183.8 | 0.391 | 3.09 | 47.6 | 27.9 | 1.87 | 25.1 | 0.00 | 0.00 | 0.04 | 151 |
| 1 | 170 | 8.74 | 8.72 | 33.930 | 26.324 | 172.2 | 0.426 | 2.93 | 44.7 | 31.6 | 1.96 | 26.5 | 0.00 | 0.00 | 0.04 | 171 |
| 1 | 199 | 8.23 | 8.21 | 33.969 | 26.433 | 162.3 | 0.475 | 3.06 | 46.2 | 34.9 | 1.97 | 27.4 | 0.00 | 0 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|------------|-----------|----------|--------|-------|--------|---------|-----------|------|-----------|--------|--------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 32 | 19.4 N | 121 A3.0 W | 10/03/87 | 1637 GMT | 3924 M | 280 | 13 KT | 290 05 | 10 | 1 | 1022.0 MB | 14.7 C | 13.0 C | 4/8 | CU | |
| 1 | 0 ISL | 14.44 | 14.44 | 33.176 | 24.687 | 324.6 | 0.000 | 5.96 | 102.4 | 2.1 | 0.38 | 0.2 | 0.00 | 0.13 | 0.03 | 0 |
| 1 | 1 | 14.44 | 14.44 | 33.176 | 24.687 | 324.6 | 0.003 | 5.96 | 102.4 | 2.1 | 0.38 | 0.2 | 0.00 | 0.13 | 0.03 | 1 |
| 1 | 10 ISL | 14.43 | 14.43 | 33.176 | 24.689 | 324.7 | 0.032 | 6.01 | 103.3 | 2.0 | 0.38 | 0.2 | 0.00 | 0.13 | 0.03 | 10 |
| 1 | 17 | 14.43 | 14.43 | 33.175 | 24.688 | 324.9 | 0.055 | 6.06 | 104.1 | 1.9 | 0.38 | 0.2 | 0.00 | 0.13 | 0.03 | 17 |
| 1 | 20 ISL | 14.37 | 14.37 | 33.186 | 24.709 | 323.0 | 0.065 | 6.06 | 104.0 | 1.9 | 0.38 | 0.2 | 0.00 | 0.14 | 0.03 | 20 |
| 1 | 30 ISL | 14.16 | 14.16 | 33.220 | 24.780 | 316.6 | 0.097 | 6.04 | 103.2 | 2.1 | 0.37 | 0.2 | 0.00 | 0.19 | 0.05 | 30 |
| 1 | 32 | 14.11 | 14.11 | 33.227 | 24.796 | 315.1 | 0.103 | 6.03 | 103.0 | 2.1 | 0.37 | 0.2 | 0.00 | 0.20 | 0.05 | 32 |
| 1 | 41 | 14.00 | 13.99 | 33.228 | 24.820 | 313.1 | 0.131 | 6.02 | 102.6 | 2.3 | 0.38 | 0.2 | 0.00 | 0.28 | 0.11 | 41 |
| 1 | 50 ISL | 13.83 | 13.82 | 33.237 | 24.862 | 309.3 | 0.159 | 5.96 | 101.2 | 2.4 | 0.41 | 0.3 | 0.04 | 0.42 | 0.15 | 50 |
| 1 | 52 | 13.79 | 13.78 | 33.241 | 24.873 | 308.3 | 0.166 | 5.95 | 100.9 | 2.4 | 0.42 | 0.4 | 0.05 | 0.44 | 0.16 | 52 |
| 1 | 60 | 13.69 | 13.68 | 33.266 | 24.913 | 304.7 | 0.190 | 5.92 | 100.2 | 2.5 | 0.43 | 0.7 | 0.10 | 0.37 | 0.17 | 60 |
| 1 | 70 | 13.37 | 13.36 | 33.285 | 24.993 | 297.3 | 0.220 | 5.67 | 95.4 | 3.7 | 0.55 | 2.6 | 0.18 | 0.28 | 0.17 | 71 |
| 1 | 75 ISL | 12.91 | 12.90 | 33.300 | 25.096 | 287.6 | 0.235 | 5.39 | 89.8 | 5.4 | 0.70 | 5.1 | 0.15 | 0.24 | 0.17 | 76 |
| 1 | 80 | 12.39 | 12.38 | 33.327 | 25.218 | 276.0 | 0.249 | 5.08 | 83.7 | 7.4 | 0.87 | 7.9 | 0.10 | 0.21 | 0.16 | 81 |
| 1 | 95 | 11.16 | 11.15 | 33.493 | 25.576 | 242.3 | 0.288 | 4.29 | 68.9 | 13.1 | 1.27 | 15.0 | 0.03 | 0.12 | 0.15 | 96 |
| 1 | 100 ISL | 10.91 | 10.90 | 33.517 | 25.639 | 236.3 | 0.300 | 4.19 | 67.0 | 14.0 | 1.33 | 16.0 | 0.02 | 0.11 | 0.14 | 101 |
| 1 | 108 | 10.58 | 10.57 | 33.550 | 25.723 | 228.4 | 0.318 | 4.09 | 64.9 | 15.4 | 1.40 | 17.1 | 0.01 | 0.09 | 0.12 | 109 |
| 1 | 124 | 9.76 | 9.75 | 33.695 | 25.976 | 204.6 | 0.353 | 3.68 | 57.4 | 21.0 | 1.63 | 21.2 | 0.01 | 0.02 | 0.05 | 125 |
| 1 | 125 ISL | 9.73 | 9.72 | 33.701 | 25.985 | 203.7 | 0.355 | 3.66 | 57.1 | 21.3 | 1.64 | 21.4 | 0.01 | 0.02 | 0.05 | 126 |
| 1 | 149 | 9.20 | 9.18 | 33.806 | 26.154 | 188.1 | 0.402 | 3.30 | 50.9 | 25.9 | 1.81 | 24.1 | 0.00 | 0.00 | 0.03 | 150 |
| 1 | 150 ISL | 9.18 | 9.16 | 33.810 | 26.160 | 187.5 | 0.404 | 3.29 | 50.7 | 26.1 | 1.81 | 24.2 | 0.00 | 0.00 | 0.03 | 151 |
| 1 | 173 | 8.82 | 8.80 | 33.895 | 26.284 | 176.1 | 0.446 | 3.22 | 49.2 | 29.4 | 1.86 | 25.4 | 0.00 | 0.00 | 0.04 | 174 |
| 1 | 200 ISL | 8.41 | 8.39 | 33.962 | 26.400 | 165.5 | 0.492 | 3.11 | 47.1 | 32.9 | 1.93 | 26.7 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 202 | 8.38 | 8.36 | 33.966 | 26.408 | 164.8 | 0.495 | 3.10 | 46.9 | 33.2 | 1.94 | 26.8 | 0.00 | 0.00 | 0.02 | 204 |
| 1 | 229 | 8.03 | 8.01 | 34.000 | 26.488 | 157.6 | 0.539 | 2.91 | 43.7 | 37.2 | 2.05 | 28.3 | 0.00 | | | 231 |
| 1 | 250 ISL | 7.79 | 7.77 | 34.017 | 26.536 | 153.2 | 0.571 | 2.71 | 40.5 | 40.7 | 2.14 | 29.5 | 0.00 | | | 252 |
| 1 | 269 | 7.59 | 7.56 | 34.030 | 26.576 | 149.7 | 0.600 | 2.49 | 37.0 | 44.0 | 2.23 | 30.6 | 0.00 | | | 271 |
| 1 | 300 ISL | 7.25 | 7.22 | 34.049 | 26.659 | 144.0 | 0.646 | 2.09 | 30.8 | 49.6 | 2.40 | 32.8 | 0.00 | | | 302 |
| 1 | 322 | 7.01 | 6.98 | 34.063 | 26.683 | 140.0 | 0.677 | 1.80 | 26.4 | 53.7 | 2.52 | 34.4 | 0.00 | | | 325 |
| 1 | 380 | 6.45 | 6.42 | 34.112 | 26.798 | 129.6 | 0.755 | 1.12 | 16.2 | 64.1 | 2.80 | 37.8 | 0.00 | | | 383 |
| 1 | 400 ISL | 6.29 | 6.25 | 34.125 | 26.829 | 126.9 | 0.781 | 0.97 | 14.0 | 67.4 | 2.87 | 38.7 | 0.00 | | | 403 |
| 1 | 444 | 5.97 | 5.93 | 34.158 | 26.896 | 120.8 | 0.835 | 0.71 | 10.2 | 74.1 | 2.98 | 40.3 | 0.00 | | | 448 |
| 1 | 500 ISL | 5.66 | 5.62 | 34.220 | 26.984 | 112.9 | 0.901 | 0.46 | 6.5 | 81.6 | 3.10 | 41.5 | 0.00 | | | 504 |
| 1 | 512 | 5.59 | 5.55 | 34.234 | 27.003 | 111.2 | 0.914 | 0.41 | 5.8 | 83.2 | 3.12 | 41.8 | 0.00 | | | 516 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 84

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|------------|-----------|----------|--------|-------|--------|---------|-----------|------|-----------|--------|--------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 32 | 12.6 N | 121 58.1 W | 10/03/87 | 1939 GMT | 4114 M | 290 | 12 KT | 290 05 | 10 | 1 | 1023.1 MB | 16.3 C | 14.6 C | 4/8 | CI | |
| 1 | 0 A | 14.53 | 14.53 | 33.245 | 24.720 | 321.4 | 0.000 | 5.97 | 102.8 | 2.2 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 0 |
| 1 | 10 ISL | 14.36 | 14.36 | 33.245 | 24.757 | 318.2 | 0.032 | 5.98 | 102.6 | 2.2 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 10 |
| 1 | 12 A | 14.33 | 14.33 | 33.245 | 24.763 | 317.6 | 0.038 | 5.98 | 102.6 | 2.2 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 12 |
| 1 | 17 A | 14.28 | 14.28 | 33.245 | 24.774 | 316.8 | 0.054 | 5.98 | 102.5 | 2.1 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 17 |
| 1 | 20 ISL | 14.24 | 14.24 | 33.245 | 24.782 | 316.1 | 0.064 | 5.99 | 102.6 | 2.1 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 20 |
| 1 | 26 A | 14.15 | 14.15 | 33.245 | 24.801 | 314.4 | 0.083 | 6.02 | 102.9 | 2.1 | 0.38 | 0.2 | 0.00 | 0.20 | 0.05 | 26 |
| 1 | 30 ISL | 14.07 | 14.07 | 33.248 | 24.820 | 312.7 | 0.095 | 5.99 | 102.2 | 2.2 | 0.39 | 0.3 | 0.02 | 0.23 | 0.07 | 30 |
| 1 | 50 ISL | 13.69 | 13.68 | 33.264 | 24.911 | 304.6 | 0.157 | 5.86 | 99.2 | 2.7 | 0.45 | 1.1 | 0.12 | 0.32 | 0.16 | 50 |
| 1 | 56 A | 13.57 | 13.56 | 33.269 | 24.940 | 302.0 | 0.175 | 5.82 | 98.3 | 2.9 | 0.47 | 1.3 | 0.14 | 0.34 | 0.18 | 56 |
| 1 | 75 ISL | 11.90 | 11.89 | 33.338 | 25.319 | 266.2 | 0.229 | 5.08 | 82.9 | 8.0 | 0.90 | 8.9 | 0.05 | 0.16 | 0.13 | 76 |
| 1 | 80 A | 11.48 | 11.47 | 33.369 | 25.421 | 256.6 | 0.242 | 4.87 | 78.7 | 9.5 | 1.02 | 10.9 | 0.02 | 0.11 | 0.11 | 81 |
| 1 | 89 | 11.14 | 11.13 | 33.432 | 25.532 | 246.3 | 0.265 | 4.65 | 74.7 | 11.4 | 1.13 | 12.8 | 0.02 | 0.07 | 0.10 | 90 |
| 1 | 100 ISL | 10.79 | 10.78 | 33.505 | 25.651 | 235.2 | 0.291 | 4.32 | 68.9 | 14.1 | 1.29 | 15.6 | 0.02 | 0.08 | 0.10 | 101 |
| 1 | 105 | 10.63 | 10.62 | 33.539 | 25.706 | 230.1 | 0.303 | 4.16 | 66.1 | 15.4 | 1.37 | 17.0 | 0.02 | 0.08 | 0.10 | 106 |
| 1 | 125 | 9.75 | 9.74 | 33.573 | 25.991 | 203.2 | 0.346 | 3.61 | 56.3 | 21.7 | 1.64 | 21.8 | 0.01 | 0.02 | 0.05 | 126 |
| 1 | 145 | 9.09 | 9.07 | 33.817 | 26.180 | 185.5 | 0.385 | 3.46 | 53.2 | 26.0 | 1.77 | 24.2 | 0.01 | 0.00 | 0.03 | 146 |
| 1 | 150 ISL | 8.98 | 8.96 | 33.839 | 26.215 | 182.2 | 0.394 | 3.48 | 53.4 | 26.7 | 1.77 | 24.4 | 0.01 | 0.00 | 0.03 | 151 |
| 1 | 175 | 8.59 | 8.57 | 33.925 | 26.344 | 170.5 | 0.438 | 3.55 | 54.0 | 29.3 | 1.78 | 24.9 | 0.01 | 0.00 | 0.02 | 176 |
| 1 | 200 ISL | 8.38 | 8.36 | 33.966 | 26.408 | 164.7 | 0.480 | 3.27 | 49.5 | 32.8 | 1.91 | 26.6 | 0.01 | 0.00 | 0.02 | 202 |
| 1 | 205 | 8.34 | 8.32 | 33.974 | 26.420 | 163.6 | 0.488 | 3.21 | 48.6 | 33.5 | 1.94 | 26.9 | 0.01 | 0.00 | 0.02 | 207 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE DEPTHS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|------------|-----------|----------|--------|--------|--------|---------|-----------|------|------|-------|-----------|--------|--------|--------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 31 | 59.4 N | 122 23.7 W | 10/03/87 | 2241 | GMT | 4118 M | 220 | 08 KT | 290 | 04 | 10 | 1 | 1022.1 MB | 16.8 C | 13.9 C | 1/8 SC |
| 1 | 0 | 14.42 | 14.42 | 33.031 | 24.579 | 334.9 | 0.000 | 6.01 | 103.2 | 1.9 | 0.40 | 0.2 | 0.00 | 0.13 | 0.04 | 0 |
| 10 | ISL | 14.19 | 14.19 | 33.030 | 24.626 | 330.6 | 0.033 | 6.11 | 104.4 | 1.9 | 0.40 | 0.2 | 0.00 | 0.14 | 0.03 | 10 |
| 15 | 14.08 | 14.08 | 33.030 | 24.649 | 328.6 | 0.050 | 6.16 | 105.0 | 1.9 | 0.40 | 0.2 | 0.00 | 0.15 | 0.03 | 15 | |
| 20 | ISL | 14.01 | 14.01 | 33.047 | 24.677 | 326.1 | 0.066 | 6.13 | 104.3 | 1.9 | 0.40 | 0.2 | 0.00 | 0.17 | 0.04 | 20 |
| 29 | 13.91 | 13.91 | 33.082 | 24.725 | 321.7 | 0.095 | 6.04 | 102.6 | 1.9 | 0.41 | 0.2 | 0.00 | 0.20 | 0.08 | 29 | |
| 30 | ISL | 13.91 | 13.91 | 33.085 | 24.728 | 321.6 | 0.098 | 6.04 | 102.6 | 1.9 | 0.41 | 0.2 | 0.00 | 0.21 | 0.09 | 30 |
| 39 | 13.84 | 13.83 | 33.103 | 24.756 | 319.1 | 0.127 | 6.02 | 102.1 | 1.9 | 0.42 | 0.2 | 0.00 | 0.34 | 0.17 | 39 | |
| 50 | 13.54 | 13.53 | 33.089 | 24.807 | 314.6 | 0.162 | 5.98 | 100.8 | 2.2 | 0.45 | 0.5 | 0.14 | 0.48 | 0.23 | 50 | |
| 60 | 13.39 | 13.38 | 33.119 | 24.860 | 309.7 | 0.193 | 5.89 | 99.0 | 2.7 | 0.49 | 1.2 | 0.25 | 0.26 | 0.17 | 60 | |
| 70 | 13.13 | 13.12 | 33.180 | 24.960 | 300.5 | 0.224 | 5.80 | 97.0 | 3.6 | 0.55 | 2.3 | 0.14 | 0.13 | 0.10 | 71 | |
| 75 | ISL | 12.98 | 12.97 | 33.199 | 25.004 | 296.4 | 0.239 | 5.76 | 96.1 | 3.9 | 0.58 | 2.9 | 0.10 | 0.10 | 0.11 | 76 |
| 80 | 12.78 | 12.77 | 33.213 | 25.054 | 291.6 | 0.254 | 5.70 | 94.7 | 4.4 | 0.63 | 3.7 | 0.06 | 0.08 | 0.11 | 81 | |
| 95 | 11.53 | 11.52 | 33.245 | 25.316 | 267.0 | 0.295 | 5.22 | 84.4 | 7.4 | 0.90 | 8.5 | 0.02 | 0.07 | 0.09 | 96 | |
| 100 | ISL | 11.24 | 11.23 | 33.270 | 25.388 | 260.2 | 0.309 | 5.07 | 81.5 | 8.6 | 0.99 | 10.1 | 0.01 | 0.06 | 0.08 | 101 |
| 109 | 10.77 | 10.76 | 33.342 | 25.528 | 247.0 | 0.331 | 4.78 | 76.1 | 11.4 | 1.16 | 13.2 | 0.01 | 0.04 | 0.06 | I10 | |
| 123 | 10.02 | 10.01 | 33.544 | 25.814 | 220.0 | 0.364 | 4.15 | 65.1 | 17.5 | 1.47 | 18.9 | 0.00 | 0.01 | 0.04 | 124 | |
| 125 | ISL | 9.94 | 9.93 | 33.568 | 25.847 | 216.9 | 0.368 | 4.07 | 63.7 | 18.3 | 1.51 | 19.5 | 0.00 | 0.01 | 0.04 | 126 |
| 148 | 9.29 | 9.27 | 33.780 | 26.119 | 191.4 | 0.415 | 3.38 | 52.2 | 25.5 | 1.79 | 24.5 | 0.00 | 0.01 | 0.05 | 149 | |
| 150 | ISL | 9.24 | 9.22 | 33.792 | 26.137 | 189.7 | 0.419 | 3.37 | 52.0 | 26.0 | 1.80 | 24.8 | 0.00 | 0.01 | 0.05 | 151 |
| 174 | 8.70 | 8.68 | 33.900 | 26.307 | 173.9 | 0.463 | 3.22 | 49.1 | 30.4 | 1.89 | 26.7 | 0.00 | 0.01 | 0.04 | 175 | |
| 200 | ISL | 8.38 | 8.36 | 33.969 | 26.410 | 164.5 | 0.507 | 3.06 | 46.3 | 33.8 | 1.97 | 28.0 | 0.00 | 0.02 | 0.03 | 202 |
| 203 | 8.35 | 8.33 | 33.974 | 26.419 | 163.7 | 0.512 | 3.04 | 46.0 | 34.2 | 1.98 | 28.1 | 0.00 | 0.02 | 0.03 | 205 | |
| 232 | 8.01 | 7.99 | 34.012 | 26.500 | 156.4 | 0.558 | 2.78 | 41.8 | 39.0 | 2.11 | 29.9 | 0.00 | | | 234 | |
| 250 | ISL | 7.73 | 7.71 | 34.025 | 26.552 | 151.7 | 0.586 | 2.60 | 38.8 | 42.5 | 2.20 | 31.2 | 0.00 | | | 252 |
| 271 | 7.41 | 7.38 | 34.038 | 26.608 | 146.6 | 0.617 | 2.36 | 35.0 | 46.6 | 2.31 | 32.8 | 0.01 | | | 273 | |
| 300 | ISL | 7.18 | 7.15 | 34.073 | 26.668 | 141.2 | 0.659 | 1.94 | 28.6 | 51.7 | 2.46 | 34.7 | 0.01 | | | 302 |
| 324 | 7.01 | 6.98 | 34.098 | 26.711 | 137.4 | 0.692 | 1.62 | 23.8 | 55.7 | 2.58 | 36.2 | 0.00 | | | 327 | |
| 384 | 6.29 | 6.26 | 34.096 | 26.806 | 128.8 | 0.772 | 1.24 | 17.9 | 65.7 | 2.78 | 39.5 | 0.00 | | | 387 | |
| 400 | ISL | 6.14 | 6.10 | 34.101 | 26.829 | 126.7 | 0.793 | 1.15 | 16.5 | 68.1 | 2.82 | 40.1 | 0.00 | | | 403 |
| 449 | 5.77 | 5.73 | 34.127 | 26.896 | 120.6 | 0.852 | 0.88 | 12.5 | 74.9 | 2.94 | 41.7 | 0.00 | | | 452 | |
| 500 | ISL | 5.52 | 5.48 | 34.174 | 26.964 | 114.6 | 0.913 | 0.63 | 8.9 | 82.0 | 3.05 | 43.1 | 0.00 | | | 504 |
| 517 | 5.44 | 5.40 | 34.190 | 26.987 | 112.6 | 0.933 | 0.55 | 7.8 | 84.3 | 3.09 | 43.6 | 0.00 | | | 521 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|--------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 31 | 39.4 N | 123 4.1 W | 11/03/87 | 0343 | GMT | 3738 M | 210 | 08 KT | 102.2 | 15.7 C | 14.0 C | | | | | |
| 1 | 0 | 14.77 | 14.77 | 33.052 | 24.521 | 340.4 | 0.000 | 5.97 | 103.2 | 1.8 | 0.39 | 0.2 | 0.00 | 0.11 | 0.01 | 0 |
| 10 | ISL | 14.40 | 14.40 | 33.046 | 24.595 | 333.6 | 0.034 | 6.04 | 103.6 | 1.8 | 0.40 | 0.2 | 0.00 | 0.11 | 0.02 | 10 |
| 14 | 14.25 | 14.25 | 33.043 | 24.624 | 331.0 | 0.047 | 6.07 | 103.8 | 1.8 | 0.40 | 0.2 | 0.00 | 0.11 | 0.03 | 14 | |
| 20 | ISL | 14.21 | 14.21 | 33.050 | 24.638 | 329.8 | 0.067 | 6.05 | 103.4 | 1.7 | 0.40 | 0.2 | 0.00 | 0.12 | 0.03 | 20 |
| 29 | 14.15 | 14.15 | 33.043 | 24.646 | 329.4 | 0.096 | 6.01 | 102.6 | 1.7 | 0.39 | 0.2 | 0.00 | 0.13 | 0.04 | 29 | |
| 30 | ISL | 14.14 | 14.14 | 33.041 | 24.646 | 329.4 | 0.100 | 6.01 | 102.6 | 1.7 | 0.39 | 0.2 | 0.00 | 0.13 | 0.04 | 30 |
| 39 | 14.06 | 14.05 | 33.044 | 24.665 | 327.8 | 0.129 | 6.01 | 102.4 | 1.8 | 0.39 | 0.2 | 0.00 | 0.18 | 0.06 | 39 | |
| 49 | 14.07 | 14.06 | 33.148 | 24.744 | 320.6 | 0.162 | 5.99 | 102.1 | 1.9 | 0.39 | 0.3 | 0.03 | 0.36 | 0.16 | 49 | |
| 50 | ISL | 14.01 | 14.00 | 33.145 | 24.754 | 319.6 | 0.165 | 6.00 | 102.2 | 1.9 | 0.39 | 0.3 | 0.03 | 0.39 | 0.17 | 50 |
| 59 | 13.45 | 13.44 | 33.098 | 24.832 | 312.3 | 0.193 | 6.05 | 101.8 | 2.2 | 0.42 | 0.3 | 0.07 | 0.57 | 0.23 | 59 | |
| 69 | 13.38 | 13.37 | 33.107 | 24.853 | 310.6 | 0.225 | 5.98 | 100.5 | 2.3 | 0.45 | 0.7 | 0.16 | 0.46 | 0.24 | 70 | |
| 75 | ISL | 13.34 | 13.33 | 33.121 | 24.872 | 308.9 | 0.243 | 5.95 | 99.9 | 2.9 | 0.47 | 0.9 | 0.21 | 0.37 | 0.20 | 76 |
| 78 | 13.30 | 13.29 | 33.129 | 24.887 | 307.7 | 0.252 | 5.93 | 99.5 | 3.2 | 0.48 | 1.0 | 0.22 | 0.32 | 0.18 | 79 | |
| 94 | 12.75 | 12.74 | 33.143 | 25.006 | 296.9 | 0.301 | 5.67 | 94.1 | 4.6 | 0.64 | 3.8 | 0.07 | 0.14 | 0.12 | 95 | |
| 100 | ISL | 12.32 | 12.31 | 33.157 | 25.100 | 287.8 | 0.318 | 5.51 | 90.6 | 5.7 | 0.73 | 5.5 | 0.04 | 0.12 | 101 | |
| 108 | 11.71 | 11.70 | 33.197 | 25.246 | 274.0 | 0.341 | 5.27 | 85.5 | 7.5 | 0.87 | 8.1 | 0.02 | 0.11 | 0.13 | 109 | |
| 124 | 10.81 | 10.80 | 33.377 | 25.548 | 245.5 | 0.382 | 4.71 | 75.0 | 12.2 | 1.17 | 13.1 | 0.01 | 0.05 | 0.07 | 125 | |
| 125 | ISL | 10.74 | 10.73 | 33.391 | 25.572 | 243.2 | 0.385 | 4.68 | 74.5 | 12.6 | 1.19 | 13.4 | 0.01 | 0.05 | 0.07 | 126 |
| 148 | 9.42 | 9.40 | 33.693 | 26.030 | 199.8 | 0.436 | 4.09 | 63.3 | 20.8 | 1.53 | 20.1 | 0.00 | 0.00 | 0.03 | 149 | |
| 150 | ISL | 9.36 | 9.34 | 33.711 | 26.054 | 197.6 | 0.440 | 4.06 | 62.8 | 21.3 | 1.54 | 20.4 | 0.00 | 0.00 | 0.03 | 151 |
| 173 | 8.87 | 8.85 | 33.857 | 26.247 | 179.7 | 0.483 | 3.85 | 58.9 | 25.7 | 1.65 | 22.5 | 0.01 | 0.00 | 0.02 | 174 | |
| 200 | ISL | 8.39 | 8.37 | 33.943 | 26.388 | 166.6 | 0.530 | 3.54 | 53.6 | 31.3 | 1.81 | 25.1 | 0.00 | 0.00 | 0.02 | 202 |
| 202 | 8.36 | 8.34 | 33.947 | 26.396 | 165.9 | 0.533 | 3.52 | 53.3 | 31.7 | 1.82 | 25.3 | 0.00 | 0.00 | 0.02 | 204 | |
| 232 | 7.76 | 7.74 | 33.994 | 26.522 | 154.2 | 0.581 | 3.26 | 48.7 | 38.1 | 1.97 | 27.5 | 0.00 | | | 234 | |
| 250 | ISL | 7.51 | 7.49 | 34.003 | 26.566 | 150.3 | 0.609 | 3.05 | 45.3 | 41.5 | 2.06 | 28.9 | 0.00 | | | 252 |
| 271 | 7.27 | 7.24 | 34.006 | 26.602 | 147.0 | 0.640 | 2.78 | 41.0 | 45.3 | 2.18 | 30.5 | 0.00 | | | 273 | |
| 300 | ISL | 6.94 | 6.91 | 34.022 | 26.660 | 141.8 | 0.682 | 2.34 | 34.3 | 50.9 | 2.35 | 32.8 | 0.00 | | | 302 |
| 324 | 6.68 | 6.65 | 34.037 | 26.708 | "137.5 | 0.715 | 1.98 | 28.8 | 55.6 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 30

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 25.1 N | 117 54.4 W | 08/03/87 | 1211 GMT | 624 M | 280 | 07 KT | | | 1016.1 MB | 15.0 C | 12.8 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UM/L | UG/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.69 | 14.69 | 33.380 | 24.791 | 314.7 | 0.000 | 6.55 | 113.3 | 2.1 | 0.30 | 0.1 | 0.00 | 0.78 | 0.10 | 0 |
| 1 | 1 | 14.69 | 14.69 | 33.380 | 24.791 | 314.7 | 0.003 | 6.55 | 113.3 | 2.1 | 0.30 | 0.1 | 0.00 | 0.78 | 0.10 | 1 |
| 1 | 10 | 14.70 | 14.70 | 33.378 | 24.787 | 315.3 | 0.031 | 6.55 | 113.3 | 2.0 | 0.30 | 0.1 | 0.00 | 0.79 | 0.07 | 10 |
| 1 | 20 | 14.29 | 14.29 | 33.366 | 24.865 | 308.2 | 0.063 | 6.69 | 114.7 | 3.0 | 0.30 | 0.1 | 0.00 | 2.18 | 0.24 | 20 |
| 1 | 30 ISL | 14.00 | 14.00 | 33.357 | 24.919 | 303.3 | 0.093 | 6.34 | 108.1 | 3.8 | 0.43 | 0.5 | 0.04 | 1.44 | 0.19 | 30 |
| 1 | 31 | 13.97 | 13.97 | 33.356 | 24.925 | 302.8 | 0.096 | 6.28 | 107.0 | 3.9 | 0.45 | 0.5 | 0.05 | 1.31 | 0.19 | 31 |
| 1 | 41 | 13.46 | 13.45 | 33.326 | 25.006 | 295.3 | 0.126 | 5.54 | 93.4 | 5.8 | 0.90U | 2.3 | 0.13 | 6.89U | -0.02U | 41 |
| 1 | 50 ISL | 13.28 | 13.27 | 33.340 | 25.053 | 291.1 | 0.153 | 5.33 | 89.5 | 6.3 | 0.67 | 3.3 | 0.16 | 0.28 | 0.10 | 50 |
| 1 | 51 | 13.26 | 13.25 | 33.344 | 25.060 | 290.4 | 0.155 | 5.32 | 89.3 | 6.3 | 0.88U | 3.4 | 0.17 | 0.25 | 0.10 | 51 |
| 1 | 60 | 12.88 | 12.87 | 33.411 | 25.188 | 278.5 | 0.181 | 5.04 | 84.0 | 6.5 | 0.80 | 5.7 | 0.34 | 0.25 | 0.22 | 60 |
| 1 | 70 | 12.20 | 12.19 | 33.456 | 25.354 | 262.8 | 0.208 | 4.71 | 77.4 | 8.8 | 0.98 | 9.1 | 0.28 | 0.27 | 0.24 | 71 |
| 1 | 75 ISL | 11.76 | 11.75 | 33.497 | 25.469 | 252.0 | 0.221 | 4.54 | 73.9 | 10.5 | 1.08 | 11.2 | 0.17 | 0.23 | 0.24 | 76 |
| 1 | 82 | 11.18 | 11.17 | 33.563 | 25.626 | 237.1 | 0.238 | 4.30 | 69.2 | 13.0 | 1.22 | 13.9 | 0.03 | 0.15 | 0.23 | 83 |
| 1 | 97 | 10.60 | 10.59 | 33.683 | 25.823 | 218.7 | 0.272 | 3.87 | 61.5 | 17.0 | 1.44 | 17.6 | 0.02 | 0.06 | 0.11 | 98 |
| 1 | 100 ISL | 10.50 | 10.49 | 33.694 | 25.849 | 216.3 | 0.279 | 3.84 | 60.9 | 17.5 | 1.46 | 18.0 | 0.02 | 0.05 | 0.10 | 101 |
| 1 | 119 | 9.92 | 9.91 | 33.742 | 25.986 | 203.7 | 0.319 | 3.73 | 58.4 | 20.2 | 1.56 | 20.0 | 0.01 | 0.01 | 0.07 | 120 |
| 1 | 125 ISL | 9.75 | 9.74 | 33.760 | 26.028 | 199.7 | 0.331 | 3.69 | 57.6 | 21.2 | 1.59 | 20.6 | 0.01 | 0.01 | 0.06 | 126 |
| 1 | 142 | 9.43 | 9.41 | 33.829 | 26.135 | 189.8 | 0.364 | 3.47 | 53.8 | 24.3 | 1.71 | 22.5 | 0.01 | 0.01 | 0.04 | 143 |
| 1 | 150 ISL | 9.47 | 9.45 | 33.893 | 26.178 | 185.9 | 0.379 | 3.21 | 49.8 | 26.2 | 1.80 | 23.5 | 0.01 | 0.01 | 0.04 | 151 |
| 1 | 170 | 9.57 | 9.55 | 34.036 | 26.274 | 177.3 | 0.415 | 2.51 | 39.1 | 30.7 | 2.04 | 25.8 | 0.00 | 0.01 | 0.05 | 171 |
| 1 | 200 | 9.50 | 9.48 | 34.177 | 26.397 | 166.3 | 0.467 | 1.93 | 30.0 | 35.1 | 2.25 | 27.9 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 229 | 9.20 | 9.17 | 34.213 | 26.474 | 159.4 | 0.514 | 1.74 | 26.9 | 38.0 | 2.35 | 29.1 | 0.00 | | | 231 |
| 1 | 250 ISL | 8.89 | 8.86 | 34.219 | 26.529 | 154.6 | 0.547 | 1.63 | 25.0 | 40.8 | 2.42 | 30.0 | 0.00 | | | 252 |
| 1 | 268 | 8.62 | 8.59 | 34.220 | 26.572 | 150.7 | 0.575 | 1.54 | 23.5 | 43.3 | 2.48 | 30.8 | 0.00 | | | 270 |
| 1 | 300 ISL | 8.26 | 8.23 | 34.228 | 26.633 | 145.3 | 0.622 | 1.36 | 20.6 | 47.0 | 2.57 | 31.9 | 0.00 | | | 302 |
| 1 | 323 | 8.04 | 8.01 | 34.231 | 26.669 | 142.1 | 0.655 | 1.24 | 18.7 | 49.5 | 2.62 | 32.6 | 0.00 | | | 326 |
| 1 | 381 | 7.46 | 7.42 | 34.221 | 26.746 | 135.5 | 0.735 | 1.07 | 15.9 | 56.2 | 2.75 | 34.8 | 0.00 | | | 384 |
| 1 | 400 ISL | 7.29 | 7.25 | 34.226 | 26.774 | 133.0 | 0.761 | 0.98 | 14.5 | 58.4 | 2.80 | 35.6 | 0.00 | | | 403 |
| 1 | 445 | 6.94 | 6.90 | 34.245 | 26.838 | 127.3 | 0.819 | 0.74 | 10.9 | 63.6 | 2.91 | 37.2 | 0.00 | | | 449 |
| 1 | 500 ISL | 6.62 | 6.57 | 34.276 | 26.906 | 121.4 | 0.888 | 0.53 | 7.7 | 69.2 | 3.02 | 38.5 | 0.00 | | | 504 |
| 1 | 514 | 6.54 | 6.49 | 34.284 | 26.923 | 119.9 | 0.905 | 0.48 | 7.0 | 70.6 | 3.05 | 38.8 | 0.00 | | | 518 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 33

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|----------|-------|--------|-------|
| 33 19.1 N | 118 6.7 W | 08/03/87 | 1003 GMT | 753 M | 290 | 09 KT | | | 1016.8 MB | 15.4 C | 13.2 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UM/L | UG/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.92 | 14.92 | 33.381 | 24.742 | 319.3 | 0.000 | 5.97 | 103.7 | 2.1 | 0.34 | 0.2 | 0.26 | 0.07 | 0 | |
| 1 | 1 | 14.92 | 14.92 | 33.381 | 24.742 | 319.4 | 0.003 | 5.97 | 103.7 | 2.1 | 0.34 | 0.2 | 0.26 | 0.07 | 1 | |
| 1 | 10 ISL | 14.81 | 14.81 | 33.380 | 24.765 | 317.4 | 0.032 | 6.00 | 104.0 | 2.0 | 0.33 | 0.2 | 0.33 | 0.09 | 10 | |
| 1 | 15 | 14.71 | 14.71 | 33.380 | 24.787 | 315.5 | 0.048 | 6.02 | 104.1 | 1.9 | 0.33 | 0.2 | 0.00 | 0.37 | 0.11 | 15 |
| 1 | 20 ISL | 14.62 | 14.62 | 33.384 | 24.809 | 313.5 | 0.063 | 6.08 | 105.0 | 1.9 | 0.33 | 0.2 | 0.00 | 0.64 | 0.11 | 20 |
| 1 | 26 | 14.52 | 14.52 | 33.389 | 24.834 | 311.3 | 0.082 | 6.14 | 105.8 | 1.9 | 0.33 | 0.1 | 0.00 | 0.98 | 0.11 | 26 |
| 1 | 30 ISL | 14.48 | 14.48 | 33.390 | 24.844 | 310.5 | 0.095 | 6.13 | 105.6 | 1.9 | 0.33 | 0.1 | 0.00 | 1.08 | 0.15 | 30 |
| 1 | 36 | 14.39 | 14.38 | 33.390 | 24.863 | 308.8 | 0.113 | 6.08 | 104.5 | 1.9 | 0.32 | 0.1 | 0.00 | 1.28 | 0.21 | 36 |
| 1 | 47 | 14.05 | 14.04 | 33.386 | 24.932 | 302.6 | 0.147 | 5.93 | 101.2 | 2.6 | 0.38 | 0.5 | 0.03 | 2.34 | 0.19 | 47 |
| 1 | 50 ISL | 13.94 | 13.93 | 33.383 | 24.952 | 300.7 | 0.156 | 5.89 | 100.3 | 2.9 | 0.40 | 0.7 | 0.05 | 2.22 | 0.20 | 50 |
| 1 | 55 | 13.71 | 13.70 | 33.381 | 24.998 | 296.5 | 0.171 | 5.78 | 98.0 | 3.6 | 0.46 | 1.5 | 0.11 | 2.03 | 0.21 | 55 |
| 1 | 65 | 12.95 | 12.94 | 33.405 | 25.169 | 280.4 | 0.200 | 5.21 | 86.9 | 5.5 | 0.73 | 5.4 | 0.27 | 0.43 | 0.25 | 65 |
| 1 | 75 | 12.41 | 12.40 | 33.426 | 25.291 | 269.0 | 0.227 | 4.98 | 82.2 | 7.2 | 0.84 | 7.5 | 0.11 | 0.29 | 0.29 | 76 |
| 1 | 84 | 11.80 | 11.79 | 33.464 | 25.436 | 255.4 | 0.251 | 4.75 | 77.4 | 8.9 | 0.97 | 9.9 | 0.04 | 0.18 | 0.23 | 85 |
| 1 | 99 | 10.91 | 10.90 | 33.575 | 25.684 | 232.0 | 0.287 | 4.26 | 68.1 | 13.4 | 1.26 | 14.8 | 0.02 | 0.09 | 0.12 | 100 |
| 1 | 100 ISL | 10.87 | 10.86 | 33.584 | 25.698 | 230.6 | 0.290 | 4.22 | 67.4 | 13.7 | 1.28 | 15.1 | 0.02 | 0.09 | 0.12 | 101 |
| 1 | 113 | 10.50 | 10.49 | 33.703 | 25.856 | 215.9 | 0.319 | 3.71 | 58.8 | 18.0 | 1.49 | 18.3 | 0.01 | 0.05 | 0.12 | 114 |
| 1 | 125 ISL | 10.36 | 10.35 | 33.790 | 25.948 | 207.4 | 0.344 | 3.35 | 53.0 | 20.9 | 1.61 | 20.2 | 0.01 | 0.03 | 0.09 | 126 |
| 1 | 132 | 10.30 | 10.28 | 33.831 | 25.991 | 203.5 | 0.358 | 3.19 | 50.4 | 22.3 | 1.67 | 21.1 | 0.01 | 0.03 | 0.07 | 133 |
| 1 | 150 ISL | 9.90 | 9.88 | 33.906 | 26.118 | 191.8 | 0.394 | 2.98 | 46.7 | 25.5 | 1.81 | 23.2 | 0.01 | 0.02 | 0.06 | 151 |
| 1 | 158 | 9.69 | 9.67 | 33.929 | 26.171 | 186.9 | 0.409 | 2.94 | 45.9 | 26.7 | 1.86 | 24.0 | 0.01 | 0.01 | 0.06 | 159 |
| 1 | 188 | 9.00 | 8.98 | 33.970 | 26.315 | 173.5 | 0.463 | 2.90 | 44.5 | 30.1 | 1.94 | 25.9 | 0.01 | 0.00 | 0.06 | 189 |
| 1 | 200 ISL | 8.81 | 8.79 | 33.998 | 26.367 | 168.8 | 0.484 | 2.80 | 42.8 | 32.0 | 2.00 | 26.8 | 0.01 | | | 202 |
| 1 | 216 | 8.59 | 8.57 | 34.034 | 26.430 | 163.1 | 0.510 | 2.62 | 39.9 | 34.8 | 2.09 | 27.9 | 0.01 | | | 218 |
| 1 | 246 | 8.18 | 8.15 | 34.072 | 26.522 | 154.7 | 0.558 | 2.30 | 34.7 | 39.8 | 2.25 | 29.9 | 0.00 | | | 248 |
| 1 | 250 ISL | 8.14 | 8.11 | 34.076 | 26.531 | 153.9 | 0.564 | 2.26 | 34.1 | 40.4 | 2.27 | 30.1 | 0.01 | | | 252 |
| 1 | 285 | 7.88 | 7.85 | 34.120 | 26.605 | 147.4 | 0.617 | 1.89 | 28.3 | 45.2 | 2.40 | 31.8 | 0.01</td | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 33 15.1 N | 118 15.0 W | 08/03/87 | 0617 GMT | 287 M | 290 | 10 KT | 5 | 1016.9 MB | 14.6 C | 13.1 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.97 | 14.97 | 33.385 | 24.734 | 320.1 | 0.000 | 5.91 | 102.8 | 1.9 | 0.35 | 0.2 | 0.00 | 0.19 | 0.04 | 0 |
| 1 | 9 | 14.94 | 14.94 | 33.380 | 24.737 | 320.1 | 0.029 | 5.91 | 102.7 | 1.9 | 0.35 | 0.2 | 0.00 | 0.19 | 0.05 | 9 |
| 1 | 10 ISL | 14.93 | 14.93 | 33.380 | 24.739 | 319.9 | 0.032 | 5.91 | 102.7 | 1.9 | 0.35 | 0.2 | 0.00 | 0.19 | 0.05 | 10 |
| 1 | 19 | 14.80 | 14.80 | 33.381 | 24.769 | 317.3 | 0.061 | 5.90 | 102.3 | 1.9 | 0.35 | 0.1 | 0.00 | 0.16 | 0.04 | 19 |
| 1 | 20 ISL | 14.78 | 14.78 | 33.381 | 24.773 | 317.0 | 0.064 | 5.90 | 102.2 | 1.9 | 0.35 | 0.1 | 0.00 | 0.17 | 0.04 | 20 |
| 1 | 29 | 14.65 | 14.65 | 33.381 | 24.801 | 314.6 | 0.092 | 5.93 | 102.5 | 1.9 | 0.35 | 0.2 | 0.00 | 0.34 | 0.10 | 29 |
| 1 | 30 ISL | 14.65 | 14.65 | 33.381 | 24.810 | 314.1 | 0.124 | 6.11 | 105.5 | 1.9 | 0.35 | 0.2 | 0.00 | 0.35 | 0.11 | 30 |
| 1 | 39 | 14.61 | 14.60 | 33.381 | 24.810 | 314.1 | 0.124 | 6.11 | 105.5 | 1.9 | 0.35 | 0.1 | 0.00 | 0.53 | 0.17 | 39 |
| 1 | 49 | 14.04 | 14.03 | 33.378 | 24.927 | 303.1 | 0.155 | 6.05 | 103.2 | 2.2 | 0.35 | 0.2 | 0.01 | 1.26 | 0.22 | 49 |
| 1 | 50 ISL | 14.01 | 14.00 | 33.378 | 24.934 | 302.5 | 0.158 | 6.02 | 102.7 | 2.3 | 0.36 | 0.3 | 0.02 | 1.26 | 0.22 | 50 |
| 1 | 60 | 13.65 | 13.64 | 33.380 | 25.010 | 295.5 | 0.187 | 5.65 | 95.6 | 3.5 | 0.49 | 1.7 | 0.13 | 1.28 | 0.18 | 60 |
| 1 | 69 | 13.10 | 13.09 | 33.381 | 25.121 | 285.1 | 0.214 | 5.32 | 89.0 | 5.3 | 0.68 | 4.8 | 0.14 | 0.50 | 0.27 | 70 |
| 1 | 75 ISL | 12.62 | 12.61 | 33.400 | 25.230 | 274.8 | 0.230 | 5.12 | 84.8 | 6.6 | 0.80 | 6.8 | 0.10 | 0.38 | 0.25 | 76 |
| 1 | 84 | 11.86 | 11.85 | 33.453 | 25.417 | 257.3 | 0.254 | 4.82 | 78.6 | 9.0 | 0.98 | 9.9 | 0.04 | 0.19 | 0.23 | 85 |
| 1 | 98 | 10.89 | 10.88 | 33.579 | 25.691 | 231.3 | 0.289 | 4.31 | 68.9 | 13.9 | 1.26 | 14.7 | 0.01 | 0.09 | 0.13 | 99 |
| 1 | 100 ISL | 10.82 | 10.81 | 33.591 | 25.713 | 229.3 | 0.293 | 4.26 | 68.0 | 14.3 | 1.29 | 15.1 | 0.01 | 0.08 | 0.12 | 101 |
| 1 | 118 | 10.45 | 10.44 | 33.688 | 25.853 | 216.3 | 0.333 | 3.84 | 60.8 | 17.8 | 1.48 | 17.9 | 0.01 | 0.04 | 0.07 | 119 |
| 125 ISL | 10.34 | 10.33 | 33.751 | 25.922 | 209.9 | 0.348 | 3.57 | 56.4 | 19.7 | 1.58 | 19.3 | 0.01 | 0.03 | 0.07 | 126 | |
| 1 | 143 | 10.06 | 10.04 | 33.908 | 26.092 | 194.1 | 0.385 | 2.93 | 46.1 | 24.7 | 1.84 | 22.7 | 0.00 | 0.01 | 0.07 | 144 |
| 1 | 150 ISL | 9.90 | 9.88 | 33.946 | 26.149 | 188.8 | 0.398 | 2.81 | 44.0 | 26.3 | 1.90 | 23.6 | 0.00 | 0.01 | 0.06 | 151 |
| 1 | 167 | 9.51 | 9.49 | 34.015 | 26.268 | 177.8 | 0.429 | 2.62 | 40.7 | 29.7 | 2.02 | 25.4 | 0.00 | 0.01 | 0.04 | 168 |
| 1 | 193 | 9.17 | 9.15 | 34.091 | 26.383 | 167.3 | 0.474 | 2.37 | 36.6 | 33.6 | 2.15 | 27.1 | 0.00 | 0.00 | 0.04 | 195 |
| 1 | 200 ISL | 8.97 | 8.95 | 34.081 | 26.407 | 165.1 | 0.486 | 2.41 | 37.0 | 34.4 | 2.15 | 27.5 | 0.00 | 0.00 | 0.04 | 202 |
| 1 | 221 | 8.44 | 8.42 | 34.055 | 26.469 | 159.4 | 0.520 | 2.49 | 37.8 | 36.9 | 2.17 | 28.5 | 0.00 | 0.00 | 0.04 | 223 |
| 1 | 250 | 8.48 | 8.45 | 34.148 | 26.536 | 153.6 | 0.565 | 1.91 | 29.0 | 41.3 | 2.37 | 30.1 | 0.01 | 0.00 | 0.04 | 252 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 37

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 33 11.2 N | 118 23.3 W | 08/03/87 | 0317 GMT | 1204 M | 290 | 12 KT | 5 | 1016.5 MB | 14.8 C | 13.1 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.96 | 14.96 | 33.383 | 24.735 | 320.0 | 0.000 | 5.90 | 102.6 | 2.4 | 0.35 | 0.1 | 0.00 | 0.16 | 0.03 | 0 |
| 1 | 2 | 14.96 | 14.96 | 33.383 | 24.735 | 320.0 | 0.006 | 5.90 | 102.6 | 2.4 | 0.35 | 0.1 | 0.00 | 0.16 | 0.03 | 2 |
| 1 | 10 ISL | 14.94 | 14.94 | 33.382 | 24.739 | 319.9 | 0.032 | 5.89 | 102.4 | 2.1 | 0.35 | 0.2 | 0.00 | 0.14 | 0.04 | 10 |
| 1 | 11 | 14.94 | 14.94 | 33.381 | 24.738 | 320.1 | 0.035 | 5.89 | 102.4 | 2.0 | 0.35 | 0.2 | 0.00 | 0.14 | 0.04 | 11 |
| 1 | 20 ISL | 14.89 | 14.89 | 33.380 | 24.748 | 319.3 | 0.064 | 5.90 | 102.4 | 2.0 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 20 |
| 1 | 23 | 14.86 | 14.86 | 33.380 | 24.755 | 318.8 | 0.074 | 5.90 | 102.4 | 2.0 | 0.35 | 0.2 | 0.00 | 0.16 | 0.05 | 23 |
| 1 | 30 ISL | 14.77 | 14.77 | 33.380 | 24.774 | 317.1 | 0.096 | 5.91 | 102.4 | 2.0 | 0.35 | 0.2 | 0.00 | 0.18 | 0.05 | 30 |
| 1 | 31 | 14.76 | 14.76 | 33.380 | 24.777 | 317.0 | 0.099 | 5.91 | 102.3 | 2.0 | 0.35 | 0.2 | 0.00 | 0.18 | 0.05 | 31 |
| 1 | 41 | 14.71 | 14.70 | 33.381 | 24.788 | 316.1 | 0.131 | 5.91 | 102.2 | 2.0 | 0.35 | 0.2 | 0.00 | 0.22 | 0.07 | 41 |
| 1 | 50 | 14.56 | 14.55 | 33.390 | 24.828 | 312.7 | 0.159 | 5.96 | 102.8 | 2.1 | 0.36 | 0.2 | 0.00 | 0.51 | 0.17 | 50 |
| 1 | 60 | 14.14 | 14.13 | 33.390 | 24.916 | 304.5 | 0.190 | 5.75 | 98.3 | 2.6 | 0.43 | 1.1 | 0.07 | 0.79 | 0.30 | 60 |
| 1 | 71 | 13.05 | 13.04 | 33.379 | 25.130 | 284.3 | 0.222 | 4.83 | 80.8 | 5.1 | 0.70 | 5.1 | 0.13 | 0.34 | 0.37 | 72 |
| 1 | 75 ISL | 12.56 | 12.55 | 33.406 | 25.247 | 273.3 | 0.233 | 4.78 | 79.1 | 6.6 | 0.81 | 7.0 | 0.11 | 0.26 | 0.33 | 76 |
| 1 | 84 | 11.57 | 11.56 | 33.489 | 25.498 | 249.5 | 0.257 | 4.68 | 75.9 | 10.1 | 1.04 | 11.2 | 0.04 | 0.16 | 0.21 | 85 |
| 1 | 100 | 10.90 | 10.89 | 33.583 | 25.692 | 231.3 | 0.295 | 4.25 | 67.9 | 13.8 | 1.27 | 15.0 | 0.01 | 0.08 | 0.11 | 101 |
| 1 | 118 | 10.34 | 10.33 | 33.718 | 25.896 | 212.2 | 0.335 | 3.70 | 58.5 | 18.9 | 1.52 | 19.0 | 0.01 | 0.03 | 0.08 | 119 |
| 125 ISL | 10.19 | 10.18 | 33.776 | 25.967 | 205.6 | 0.350 | 3.48 | 54.8 | 20.9 | 1.62 | 20.4 | 0.01 | 0.02 | 0.07 | 126 | |
| 1 | 143 | 9.91 | 9.89 | 33.911 | 26.120 | 191.5 | 0.386 | 2.97 | 46.5 | 25.6 | 1.83 | 23.4 | 0.01 | 0.01 | 0.05 | 144 |
| 1 | 150 ISL | 9.84 | 9.82 | 33.945 | 26.158 | 187.9 | 0.399 | 2.85 | 44.6 | 26.8 | 1.88 | 24.1 | 0.01 | 0.01 | 0.05 | 151 |
| 1 | 173 | 9.64 | 9.62 | 34.038 | 26.264 | 178.3 | 0.441 | 2.52 | 39.3 | 30.1 | 2.03 | 25.8 | 0.00 | 0.02 | 0.04 | 174 |
| 1 | 200 | 9.35 | 9.33 | 34.165 | 26.412 | 164.8 | 0.487 | 1.97 | 30.5 | 35.0 | 2.25 | 28.0 | 0.00 | 0.01 | 0.06 | 202 |
| 1 | 228 | 9.04 | 9.02 | 34.189 | 26.481 | 158.7 | 0.533 | 1.84 | 28.3 | 38.1 | 2.32 | 29.2 | 0.00 | 0.00 | 0.04 | 230 |
| 1 | 250 ISL | 8.53 | 8.50 | 34.156 | 26.535 | 153.7 | 0.567 | 1.89 | 28.7 | 41.1 | 2.35 | 30.3 | 0.00 | 0.00 | 0.04 | 252 |
| 1 | 268 | 8.10 | 8.07 | 34.129 | 26.579 | 149.7 | 0.594 | 1.90 | 28.6 | 43.8 | 2.39 | 31.2 | 0.00 | 0.00 | 0.04 | 270 |
| 1 | 300 ISL | 7.73 | 7.70 | 34.168 | 26.665 | 141.9 | 0.641 | 1.49 | 22.3 | 49.5 | 2.57 | 33.1 | 0.00 | 0.00 | 0.04 | 302 |
| 1 | 322 | 7.58 | 7.55 | 34.207 | 26.717 | 137.2 | 0.672 | 1.16 | 17.3 | 53.3 | 2.70 | 34.4 | 0.00 | 0.00 | 0.04 | 325 |
| 1 | 382 | 7.11 | 7.07 | 34.238 | 26.809 | 129.3 | 0.752 | 0.81 | 11.9 | 60.5 | 2.86 | 36.7 | 0.00 | 0.00 | 0.04 | 385 |
| 1 | 400 ISL | 6.98 | 6.94 | 34.249 | 26.835 | 126.9 | 0.775 | 0.72 | 10.6 | 62.6 | 2.90 | 37.3 | 0.00 | 0.00 | 0.04 | 403 |
| 1 | 447 | 6.65 | 6.61 | 34.276 | 26.902 | 121.1 | 0.833 | 0.53 | 7.7 | 68.0 | 3.01 | 38.6 | 0.00 | 0.00 | 0.04 | 451 |
| 1 | 500 ISL | 6.35 | 6.30 | 34.307 | 26.966 | 115.4 | 0.896 | 0.39 | 5.6 | 73.6 | 3.10 | 39.7 | 0.00 | 0.00 | 0.04 | 504 |
| 1 | 517 | 6.26 | 6.21 | 34.317 | 26.986 | 113.7 | 0.915 | 0.34 | 4.9 | 75.4 | 3.13 | 40.1 | 0.00 | 0.00 | 0.04 | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|-------|-------|-------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | PO4 | N03 | N02 | CHL-A | PHAE0 | D.BAR | |
| 32 55.1 N | 118 56.1 W | 07/03/87 | 2202 GMT | 1728 M | 290 | 10 KT | 270 03 | 05 | 2 | 1016.2 MB | 14.9 C | 12.7 C | 8/8 | CU | | |
| 1 | 0 ISL | 14.54 | 14.54 | 33.394 | 24.833 | 310.6 | 0.000 | 6.19 | 106.7 | 0.7 | 0.27 | 0.2 | 0.00 | 0.50 | 0.12 | 0 |
| 1 | 2 | 14.54 | 14.54 | 33.394 | 24.833 | 310.7 | 0.006 | 6.19 | 106.7 | 0.7 | 0.27 | 0.2 | 0.00 | 0.50 | 0.12 | 2 |
| 1 | 10 ISL | 14.48 | 14.48 | 33.397 | 24.849 | 309.4 | 0.031 | 6.22 | 107.1 | 0.7 | 0.27 | 0.2 | 0.00 | 0.58 | 0.12 | 10 |
| 1 | 11 | 14.47 | 14.47 | 33.397 | 24.851 | 309.3 | 0.034 | 6.23 | 107.3 | 0.7 | 0.27 | 0.2 | 0.00 | 0.59 | 0.12 | 11 |
| 1 | 20 ISL | 14.19 | 14.19 | 33.425 | 24.932 | 301.8 | 0.062 | 6.26 | 107.2 | 0.7 | 0.28 | 0.2 | 0.00 | 0.62 | 0.18 | 20 |
| 1 | 21 | 14.15 | 14.15 | 33.428 | 24.942 | 300.8 | 0.065 | 6.26 | 107.1 | 0.7 | 0.28 | 0.2 | 0.00 | 0.63 | 0.19 | 21 |
| 1 | 30 ISL | 13.96 | 13.96 | 33.443 | 24.994 | 296.2 | 0.091 | 6.26 | 106.7 | 0.4 | 0.28 | 0.2 | 0.00 | 0.78 | 0.32 | 30 |
| 1 | 31 | 13.94 | 13.94 | 33.444 | 24.999 | 295.8 | 0.094 | 6.26 | 106.7 | 0.4 | 0.28 | 0.2 | 0.00 | 0.81 | 0.34 | 31 |
| 1 | 41 | 13.76 | 13.75 | 33.439 | 25.032 | 292.9 | 0.124 | 6.00 | 101.8 | 1.2 | 0.38 | 0.4 | 0.02 | 1.38 | 0.61 | 41 |
| 1 | 50 ISL | 12.88 | 12.87 | 33.469 | 25.232 | 274.0 | 0.149 | 5.11 | 85.2 | 6.4 | 0.78 | 6.3 | 0.22 | 0.84 | 0.50 | 50 |
| 1 | 51 | 12.77 | 12.76 | 33.474 | 25.258 | 271.6 | 0.152 | 5.01 | 83.3 | 7.0 | 0.83 | 7.0 | 0.24 | 0.76 | 0.48 | 51 |
| 1 | 60 | 12.30 | 12.29 | 33.495 | 25.365 | 261.5 | 0.176 | 4.75 | 78.2 | 9.2 | 0.96 | 9.4 | 0.17 | 0.63 | 0.43 | 60 |
| 1 | 70 | 11.53 | 11.52 | 33.563 | 25.562 | 243.0 | 0.201 | 4.21 | 68.2 | 12.8 | 1.24 | 13.6 | 0.04 | 0.49 | 0.46 | 71 |
| 1 | 75 ISL | 11.36 | 11.35 | 33.584 | 25.610 | 238.6 | 0.213 | 4.09 | 66.0 | 13.7 | 1.30 | 14.6 | 0.04 | 0.43 | 0.41 | 76 |
| 1 | 84 | 11.17 | 11.16 | 33.614 | 25.668 | 233.2 | 0.235 | 3.97 | 63.9 | 14.9 | 1.35 | 15.6 | 0.04 | 0.34 | 0.32 | 85 |
| 1 | 99 | 10.69 | 10.68 | 33.684 | 25.808 | 220.2 | 0.269 | 3.72 | 59.2 | 17.9 | 1.49 | 18.0 | 0.02 | 0.17 | 0.33 | 100 |
| 100 ISL | 10.66 | 10.65 | 33.690 | 25.818 | 219.3 | 0.271 | 3.70 | 58.9 | 18.1 | 1.50 | 18.2 | 0.02 | 0.16 | 0.32 | 101 | |
| 1 | 119 | 10.14 | 10.13 | 33.809 | 26.001 | 202.2 | 0.311 | 3.27 | 51.5 | 22.4 | 1.71 | 21.6 | 0.01 | 0.05 | 0.17 | 120 |
| 125 ISL | 10.00 | 9.99 | 33.840 | 26.049 | 197.8 | 0.323 | 3.17 | 49.8 | 23.7 | 1.76 | 22.4 | 0.01 | 0.04 | 0.14 | 126 | |
| 1 | 143 | 9.62 | 9.60 | 33.916 | 26.172 | 186.4 | 0.357 | 2.93 | 45.6 | 27.2 | 1.89 | 24.3 | 0.01 | 0.02 | 0.08 | 144 |
| 150 ISL | 9.47 | 9.45 | 33.933 | 26.210 | 182.9 | 0.370 | 2.89 | 44.9 | 28.2 | 1.92 | 24.9 | 0.01 | 0.01 | 0.07 | 151 | |
| 1 | 173 | 9.04 | 9.02 | 33.972 | 26.310 | 173.8 | 0.411 | 2.79 | 42.9 | 31.0 | 2.00 | 26.4 | 0.01 | 0.00 | 0.04 | 174 |
| 200 ISL | 8.77 | 8.75 | 34.014 | 26.386 | 167.0 | 0.457 | 2.62 | 40.0 | 33.7 | 2.09 | 27.6 | 0.01 | 0.00 | 0.03 | 202 | |
| 1 | 203 | 8.75 | 8.73 | 34.019 | 26.393 | 166.4 | 0.462 | 2.60 | 39.7 | 34.0 | 2.10 | 27.7 | 0.01 | 0.00 | 0.03 | 205 |
| 1 | 232 | 8.51 | 8.49 | 34.079 | 26.477 | 158.8 | 0.510 | 2.28 | 34.7 | 38.6 | 2.23 | 29.3 | 0.01 | | | 234 |
| 250 ISL | 8.36 | 8.33 | 34.115 | 26.529 | 154.2 | 0.538 | 2.02 | 30.6 | 41.5 | 2.34 | 30.4 | 0.01 | | | 252 | |
| 1 | 271 | 8.19 | 8.16 | 34.152 | 26.584 | 149.3 | 0.570 | 1.73 | 26.1 | 44.7 | 2.46 | 31.6 | 0.01 | | | 273 |
| 300 ISL | 7.93 | 7.90 | 34.180 | 26.645 | 143.9 | 0.612 | 1.45 | 21.8 | 48.5 | 2.57 | 33.0 | 0.01 | | | 302 | |
| 1 | 326 | 7.67 | 7.64 | 34.201 | 26.699 | 139.0 | 0.649 | 1.23 | 18.3 | 52.3 | 2.67 | 34.2 | 0.01 | | | 329 |
| 1 | 385 | 7.03 | 6.99 | 34.285 | 26.856 | 124.7 | 0.727 | 0.58 | 8.5 | 65.1 | 2.97 | 37.3 | 0.00 | | | 388 |
| 400 ISL | 6.94 | 6.90 | 34.293 | 26.875 | 123.1 | 0.745 | 0.55 | 8.1 | 66.7 | 3.00 | 37.7 | 0.00 | | | | 403 |
| 1 | 450 | 6.69 | 6.65 | 34.305 | 26.919 | 119.5 | 0.806 | 0.44 | 6.4 | 70.5 | 3.07 | 38.6 | 0.00 | | | 454 |
| 500 ISL | 6.39 | 6.34 | 34.319 | 26.970 | 115.1 | 0.865 | 0.36 | 5.2 | 75.6 | 3.13 | 39.6 | 0.00 | | | | 504 |
| 1 | 521 | 6.26 | 6.21 | 34.325 | 26.992 | 113.2 | 0.889 | 0.33 | 4.8 | 77.7 | 3.16 | 40.0 | 0.00 | | | 526 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 49

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|-------|-------|-------|-------|-----|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS | |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | PO4 | N03 | N02 | CHL-A | PHAE0 | D.BAR | | |
| 32 48.0 N | 119 12.4 W | 07/03/87 | 1940 GMT | 498 M | 290 | 16 KT | 300 05 | 14 | 2 | 1018.2 MB | 16.9 C | 13.2 C | 8/8 | CU | | | |
| 1 | 0 ISL | 14.67 | 14.67 | 33.384 | 24.798 | 314.0 | 0.000 | 6.04 | 104.4 | 0.5 | 0.32 | 0.2 | 0.00 | 0.38 | 0.08 | 0 | |
| 1 | 1 A | 14.67 | 14.67 | 33.384 | 24.798 | 314.0 | 0.003 | 6.04 | 104.4 | 0.5 | 0.32 | 0.2 | 0.00 | 0.38 | 0.08 | 1 | |
| 10 ISL | 14.66 | 14.66 | 33.383 | 24.800 | 314.1 | 0.031 | 6.05 | 104.6 | 0.5 | 0.32 | 0.2 | 0.00 | 0.39 | 0.08 | | 10 | |
| 1 | 11 A | 14.66 | 14.66 | 33.383 | 24.800 | 314.2 | 0.035 | 6.05 | 104.6 | 0.5 | 0.32 | 0.2 | 0.00 | 0.39 | 0.08 | 11 | |
| 1 | 14 A | 14.66 | 14.66 | 33.382 | 24.799 | 314.3 | 0.044 | 6.05 | 104.6 | 0.5 | 0.32 | 0.2 | 0.00 | 0.46 | 0.11 | 14 | |
| 20 ISL | 14.49 | 14.49 | 33.399 | 24.848 | 309.8 | 0.063 | 6.04 | 104.0 | 0.7 | 0.34 | 0.2 | 0.00 | 0.41 | 0.11 | | 20 | |
| 21 A | 14.45 | 14.45 | 33.403 | 24.860 | 308.7 | 0.066 | 6.04 | 104.0 | 0.7 | 0.34 | 0.2 | 0.00 | 0.40 | 0.11 | | 21 | |
| 30 ISL | 14.29 | 14.29 | 33.411 | 24.900 | 305.1 | 0.093 | 5.94 | 101.9 | 1.1 | 0.37 | 0.7 | 0.02 | 0.47 | 0.19 | | 30 | |
| 1 | 43 A | 13.98 | 13.97 | 33.416 | 24.969 | 298.9 | 0.133 | 5.64 | 96.2 | 2.5 | 0.48 | 1.5 | 0.08 | 0.65 | 0.36 | | 43 |
| 50 ISL | 13.63 | 13.62 | 33.433 | 25.054 | 291.0 | 0.153 | 5.39 | 91.2 | 3.9 | 0.60 | 3.1 | 0.13 | 0.67 | 0.44 | | 50 | |
| 1 | 62 A | 12.93 | 12.92 | 33.468 | 25.222 | 275.3 | 0.187 | 4.93 | 82.3 | 6.6 | 0.84 | 6.6 | 0.17 | 0.70 | 0.54 | | 62 |
| 1 | 71 | 12.44 | 12.43 | 33.491 | 25.336 | 264.7 | 0.212 | 4.62 | 76.3 | 8.6 | 0.98 | 9.2 | 0.13 | 0.55 | 0.56 | | 72 |
| 75 ISL | 12.10 | 12.09 | 33.504 | 25.411 | 257.6 | 0.222 | 4.51 | 74.0 | 9.9 | 1.06 | 10.6 | 0.10 | 0.50 | 0.54 | | 76 | |
| 1 | 84 | 11.40 | 11.39 | 33.535 | 25.565 | 243.1 | 0.245 | 4.34 | 70.1 | 12.7 | 1.22 | 13.4 | 0.05 | 0.40 | 0.49 | | 85 |
| 1 | 99 | 11.16 | 11.15 | 33.561 | 25.629 | 237.3 | 0.281 | 4.23 | 68.0 | 14.1 | 1.28 | 14.7 | 0.04 | 0.28 | 0.42 | | 100 |
| 100 ISL | 11.13 | 11.12 | 33.565 | 25.637 | 236.5 | 0.283 | 4.21 | 67.6 | 14.3 | 1.29 | 14.8 | 0.04 | 0.27 | 0.41 | | 101 | |
| 1 | 138 | 9.97 | 9.95 | 33.827 | 26.044 | 198.5 | 0.366 | 3.22 | 50.5 | 24.1 | 1.77 | 22.3 | 0.02 | 0.06 | 0.19 | | 139 |
| 125 ISL | 10.34 | 10.33 | 33.722 | 25.899 | 212.1 | 0.339 | 3.59 | 56.7 | 20.0 | 1.59 | 19.6 | 0.02 | 0.11 | 0.24 | | 126 | |
| 1 | 167 | 9.32 | 9.30 | 34.029 | 26.310 | 173.8 | 0.420 | 2.37 | 36.7 | 32.6 | 2.12 | 26.9 | 0.01 | 0.02 | 0.08 | | 168 |
| 1 | 198 | 8.94 | 8.92 | 34.108 | 26.433 | 162.6 | 0.472 | 2.04 | 31.3 | 37.4 | 2.28 | 28.9 | 0.01 | 0.06 | 0.06 | | 200 |
| 200 ISL | 8.93 | 8.91 | 34.112 | 26.437 | 162.2 | 0.475 | 2.03 | 31.2 | | | | | | | | 202 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE DEPTHS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 39.2 N | 119 28.9 W | 07/03/87 | 1544 GMT | 1347 M | 320 | 15 KT | 270 05 08 | 1 | 1017.5 MB | 14.8 C | 12.8 C | 7/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| | 0 ISL | 14.67 | 14.67 | 33.397 | 24.808 | 313.0 | 0.000 | 6.06 | 104.8 | 0.7 | 0.31 | 0.1 | 0.00 | 0.35 | 0.09 | 0 |
| 1 | 1 | 14.67 | 14.67 | 33.397 | 24.808 | 313.1 | 0.003 | 6.06 | 104.8 | 0.7 | 0.31 | 0.1 | 0.00 | 0.35 | 0.09 | 1 |
| 1 | 10 | 14.67 | 14.67 | 33.396 | 24.808 | 313.4 | 0.031 | 6.07 | 104.9 | 0.6 | 0.32 | 0.1 | 0.00 | 0.33 | 0.08 | 10 |
| 1 | 20 | 14.58 | 14.58 | 33.392 | 24.824 | 312.1 | 0.063 | 6.06 | 104.6 | 0.6 | 0.32 | 0.1 | 0.00 | 0.36 | 0.11 | 20 |
| | 30 ISL | 14.38 | 14.38 | 33.406 | 24.877 | 307.3 | 0.094 | 6.04 | 103.8 | 0.6 | 0.34 | 0.1 | 0.00 | 0.49 | 0.19 | 30 |
| 1 | 32 | 14.34 | 14.34 | 33.410 | 24.889 | 306.3 | 0.100 | 6.04 | 103.7 | 0.6 | 0.34 | 0.1 | 0.00 | 0.52 | 0.21 | 32 |
| 1 | 42 | 14.31 | 14.30 | 33.421 | 24.904 | 305.1 | 0.130 | 6.04 | 103.7 | 0.6 | 0.34 | 0.1 | 0.00 | 0.52 | 0.25 | 42 |
| | 50 ISL | 14.15 | 14.14 | 33.415 | 24.933 | 302.6 | 0.155 | 5.87 | 100.4 | 1.5 | 0.40 | 0.4 | 0.02 | 0.88 | 0.39 | 50 |
| 1 | 53 | 14.06 | 14.05 | 33.411 | 24.949 | 301.1 | 0.164 | 5.79 | 98.9 | 1.9 | 0.43 | 0.7 | 0.04 | 0.99 | 0.47 | 53 |
| 1 | 61 | 13.76 | 13.75 | 33.405 | 25.006 | 295.8 | 0.188 | 5.57 | 94.5 | 3.0 | 0.53 | 2.1 | 0.11 | 0.82 | 0.75 | 61 |
| 1 | 72 | 13.15 | 13.14 | 33.422 | 25.143 | 283.1 | 0.219 | 5.20 | 87.1 | 5.6 | 0.71 | 5.1 | 0.16 | 0.73 | 0.65 | 73 |
| | 75 ISL | 12.91 | 12.90 | 33.433 | 25.199 | 277.8 | 0.228 | 5.07 | 84.5 | 6.4 | 0.78 | 6.2 | 0.15 | 0.67 | 0.60 | 76 |
| 1 | 86 | 11.99 | 11.98 | 33.486 | 25.418 | 257.2 | 0.257 | 4.60 | 75.2 | 9.6 | 1.03 | 10.6 | 0.12 | 0.44 | 0.42 | 87 |
| 1 | 100 | 11.05 | 11.04 | 33.552 | 25.642 | 236.1 | 0.292 | 4.22 | 67.7 | 13.7 | 1.28 | 14.9 | 0.03 | 0.18 | 0.23 | 101 |
| 1 | 121 | 10.55 | 10.54 | 33.664 | 25.817 | 219.8 | 0.340 | 3.82 | 60.6 | 17.5 | 1.46 | 18.0 | 0.02 | 0.09 | 0.14 | 122 |
| | 125 ISL | 10.41 | 10.40 | 33.700 | 25.870 | 214.9 | 0.348 | 3.69 | 58.4 | 18.9 | 1.52 | 18.9 | 0.02 | 0.08 | 0.13 | 126 |
| 1 | 146 | 9.66 | 9.64 | 33.886 | 26.142 | 189.3 | 0.391 | 2.99 | 46.6 | 26.5 | 1.83 | 23.7 | 0.01 | 0.04 | 0.08 | 147 |
| | 150 ISL | 9.56 | 9.54 | 33.907 | 26.175 | 186.2 | 0.398 | 2.91 | 45.2 | 27.5 | 1.87 | 24.3 | 0.01 | 0.03 | 0.07 | 151 |
| 1 | 176 | 9.05 | 9.03 | 33.993 | 26.325 | 172.4 | 0.445 | 2.57 | 39.5 | 32.8 | 2.06 | 26.7 | 0.01 | 0.00 | 0.04 | 177 |
| | 200 ISL | 8.75 | 8.73 | 34.047 | 26.415 | 164.2 | 0.485 | 2.28 | 34.8 | 36.5 | 2.19 | 28.3 | 0.01 | 0.00 | 0.04 | 202 |
| 1 | 205 | 8.70 | 8.68 | 34.056 | 26.430 | 162.9 | 0.493 | 2.23 | 34.0 | 37.1 | 2.21 | 28.6 | 0.01 | 0.00 | 0.04 | 207 |
| 1 | 233 | 8.53 | 8.51 | 34.109 | 26.498 | 156.9 | 0.538 | 2.04 | 31.0 | 39.8 | 2.30 | 29.7 | 0.01 | | | 235 |
| | 250 ISL | 8.29 | 8.26 | 34.145 | 26.563 | 151.0 | 0.564 | 1.77 | 26.8 | 43.3 | 2.42 | 31.0 | 0.01 | | | 252 |
| 1 | 272 | 7.97 | 7.94 | 34.189 | 26.646 | 143.4 | 0.597 | 1.39 | 20.9 | 48.3 | 2.59 | 32.7 | 0.00 | | | 274 |
| | 300 ISL | 7.77 | 7.74 | 34.221 | 26.700 | 138.6 | 0.636 | 1.09 | 16.3 | 52.3 | 2.69 | 33.9 | 0.00 | | | 302 |
| 1 | 324 | 7.63 | 7.60 | 34.236 | 26.733 | 135.9 | 0.669 | 0.92 | 13.7 | 55.2 | 2.74 | 34.6 | 0.00 | | | 327 |
| 1 | 385 | 6.99 | 6.95 | 34.252 | 26.836 | 126.6 | 0.749 | 0.70 | 10.3 | 63.3 | 2.92 | 37.1 | 0.00 | | | 388 |
| | 400 ISL | 6.91 | 6.87 | 34.262 | 26.855 | 125.0 | 0.768 | 0.64 | 9.4 | 64.9 | 2.95 | 37.4 | 0.00 | | | 403 |
| 1 | 449 | 6.74 | 6.70 | 34.295 | 26.905 | 120.9 | 0.828 | 0.45 | 6.6 | 69.2 | 3.03 | 38.2 | 0.00 | | | 453 |
| | 500 ISL | 6.50 | 6.45 | 34.306 | 26.946 | 117.5 | 0.889 | 0.39 | 5.7 | 72.7 | 3.08 | 39.1 | 0.00 | | | 504 |
| 1 | 520 | 6.41 | 6.36 | 34.310 | 26.961 | 116.3 | 0.913 | 0.36 | 5.2 | 74.1 | 3.10 | 39.5 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 25.1 N | 119 57.7 W | 07/03/87 | 1046 GMT | 869 M | 350 | 18 KT | 270 05 08 | 1 | 1017.0 MB | 14.9 C | 13.8 C | 7/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| | 0 ISL | 14.50 | 14.50 | 33.169 | 24.668 | 326.3 | 0.000 | 5.94 | 102.2 | 2.0 | 0.39 | 0.2 | 0.00 | 0.21 | 0.06 | 0 |
| 1 | 1 | 14.50 | 14.50 | 33.169 | 24.668 | 326.4 | 0.003 | 5.94 | 102.2 | 2.0 | 0.39 | 0.2 | 0.00 | 0.21 | 0.06 | 1 |
| | 10 ISL | 14.45 | 14.45 | 33.183 | 24.690 | 324.5 | 0.033 | 5.96 | 102.5 | 1.9 | 0.39 | 0.2 | 0.00 | 0.24 | 0.08 | 10 |
| 1 | 16 | 14.40 | 14.40 | 33.215 | 24.725 | 321.4 | 0.052 | 5.97 | 102.5 | 1.9 | 0.39 | 0.2 | 0.00 | 0.27 | 0.10 | 16 |
| | 20 ISL | 14.39 | 14.39 | 33.265 | 24.766 | 317.6 | 0.065 | 5.90 | 101.3 | 2.0 | 0.40 | 0.4 | 0.02 | 0.31 | 0.14 | 20 |
| | 30 ISL | 14.36 | 14.36 | 33.390 | 24.869 | 308.1 | 0.096 | 5.79 | 99.5 | 2.4 | 0.42 | 0.8 | 0.05 | 0.39 | 0.21 | 30 |
| 1 | 31 | 14.36 | 14.36 | 33.403 | 24.879 | 307.2 | 0.099 | 5.79 | 99.5 | 2.4 | 0.42 | 0.8 | 0.05 | 0.40 | 0.21 | 31 |
| 1 | 41 | 14.19 | 14.18 | 33.419 | 24.928 | 302.8 | 0.130 | 6.07 | 103.9 | 1.0 | 0.35 | 0.2 | 0.00 | 0.35 | 0.12 | 41 |
| | 50 ISL | 14.16 | 14.15 | 33.424 | 24.938 | 302.1 | 0.157 | 5.98 | 102.3 | 1.1 | 0.36 | 0.2 | 0.00 | 0.47 | 0.18 | 50 |
| 1 | 51 | 14.16 | 14.15 | 33.425 | 24.939 | 302.1 | 0.160 | 5.97 | 102.2 | 1.1 | 0.36 | 0.2 | 0.00 | 0.48 | 0.19 | 51 |
| 1 | 61 | 13.84 | 13.83 | 33.412 | 24.995 | 296.9 | 0.190 | 5.66 | 96.2 | 3.3 | 0.52 | 2.0 | 0.11 | 0.37 | 0.21 | 61 |
| 1 | 71 | 13.55 | 13.54 | 33.424 | 25.064 | 290.6 | 0.219 | 5.49 | 92.8 | 4.2 | 0.60 | 3.3 | 0.16 | 0.43 | 0.27 | 72 |
| | 75 ISL | 13.01 | 13.00 | 33.412 | 25.163 | 281.2 | 0.231 | 5.26 | 87.9 | 5.8 | 0.73 | 5.6 | 0.13 | 0.34 | 0.25 | 76 |
| 1 | 80 | 12.26 | 12.25 | 33.406 | 25.304 | 267.9 | 0.244 | 4.95 | 81.4 | 8.0 | 0.92 | 8.8 | 0.07 | 0.20 | 0.21 | 81 |
| 1 | 95 | 10.91 | 10.90 | 33.504 | 25.629 | 237.1 | 0.282 | 4.40 | 70.3 | 12.9 | 1.25 | 14.5 | 0.02 | 0.10 | 0.13 | 96 |
| | 100 ISL | 10.60 | 10.59 | 33.561 | 25.728 | 227.8 | 0.294 | 4.30 | 68.3 | 14.8 | 1.34 | 16.0 | 0.02 | 0.07 | 0.10 | 101 |
| 1 | IIO | 10.17 | 10.16 | 33.667 | 25.885 | 213.1 | 0.316 | 4.14 | 65.2 | 18.1 | 1.47 | 18.4 | 0.01 | 0.03 | 0.05 | 111 |
| 1 | 125 | 9.87 | 9.86 | 33.717 | 25.975 | 204.8 | 0.347 | 3.81 | 59.6 | 20.2 | 1.56 | 20.0 | 0.01 | 0.02 | 0.06 | 126 |
| 1 | 149 | 9.15 | 9.13 | 33.933 | 26.261 | 177.9 | 0.393 | 2.96 | 45.6 | 28.9 | 1.92 | 25.2 | 0.01 | 0.00 | 0.03 | 150 |
| | 150 ISL | 9.14 | 9.12 | 33.937 | 26.266 | 177.4 | 0.395 | 2.94 | 45.3 | 29.1 | 1.93 | 25.3 | 0.01 | 0.00 | 0.03 | 151 |
| 1 | 174 | 8.95 | 8.93 | 34.002 | 26.348 | 170.1 | 0.437 | 2.57 | 39.4 | 32.7 | 2.08 | 27.2 | 0.01 | 0.00 | 0.03 | 175 |
| | 200 ISL | 8.63 | 8.61 | 34.088 | 26.465 | 159.4 | 0.479 | 2.18 | 33.2 | 37.6 | 2.23 | 29.0 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 203 | 8.59 | 8.57 | 34.097 | 26.479 | 158.2 | 0.484 | 2.14 | 32.6 | 38.2 | 2.25 | 29.2 | 0.01 | 0.00 | 0.03 | 205 |
| 1 | 232 | 8.21 | 8.19 | 34.132 | 26.564 | 150.5 | 0.529 | 1.85 | 27.9 | 42.8 | 2.40 | 31.0 | 0.01 | | | 234 |
| | 250 ISL | 8.06 | 8.03 | 34.154 | 26.604 | 146.9 | 0.556 | 1.65 | 24.8 | 45.2 | 2.48 | 31.8 | 0.01 | | | 252 |
| 1 | 270 | 7.92 | 7.89 | 34.176 | 26.643 | 143.6 | 0.585 | 1.45 | 21.8 | 47.7 | 2.55 | 32.5 | 0.00 | | | 272 |
| | 300 ISL | 7.72 | 7.69 | 34.198 | 26.690 | 139.6 | 0.627 | 1.24 | 18.5 | 51.5 | 2.65 | 33.7 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 5.2 N | 120 38.3 W | 07/03/87 | 0511 GMT | 3970 M | 350 | 22 KT | | | 1018.0 MB | 14.3 C | 13.1 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.44 | 15.44 | 33.388 | 24.634 | 329.6 | 0.000 | 5.78 | 101.5 | 1.9 | 0.32 | 0.1 | 0.00 | 0.11 | 0.03 | 0 |
| 1 | 1 | 15.44 | 15.44 | 33.388 | 24.634 | 329.6 | 0.003 | 5.78 | 101.5 | 1.9 | 0.32 | 0.1 | 0.00 | 0.11 | 0.03 | 1 |
| 1 | 10 ISL | 15.43 | 15.43 | 33.386 | 24.635 | 329.8 | 0.033 | 5.84 | 102.5 | 1.9 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 10 |
| 1 | 17 | 15.43 | 15.43 | 33.385 | 24.634 | 330.1 | 0.056 | 5.89 | 103.4 | 1.9 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 17 |
| 1 | 20 ISL | 15.43 | 15.43 | 33.385 | 24.634 | 330.2 | 0.066 | 5.88 | 103.2 | 1.8 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 20 |
| 1 | 30 ISL | 15.43 | 15.43 | 33.384 | 24.634 | 330.6 | 0.099 | 5.81 | 102.0 | 1.7 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 30 |
| 1 | 33 | 15.43 | 15.42 | 33.384 | 24.634 | 330.7 | 0.109 | 5.79 | 101.6 | 1.6 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 33 |
| 1 | 42 | 15.44 | 15.43 | 33.383 | 24.631 | 331.2 | 0.139 | 5.78 | 101.5 | 1.5 | 0.32 | 0.1 | 0.00 | 0.11 | 0.03 | 42 |
| 1 | 50 ISL | 15.39 | 15.38 | 33.379 | 24.640 | 330.6 | 0.165 | 5.79 | 101.5 | 1.4 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 50 |
| 1 | 51 | 15.38 | 15.37 | 33.379 | 24.642 | 330.4 | 0.168 | 5.79 | 101.5 | 1.4 | 0.33 | 0.1 | 0.00 | 0.11 | 0.03 | 51 |
| 1 | 62 | 15.06 | 15.05 | 33.327 | 24.672 | 327.9 | 0.205 | 5.83 | 101.5 | 1.8 | 0.35 | 0.1 | 0.00 | 0.20 | 0.08 | 62 |
| 1 | 71 | 14.56 | 14.55 | 33.337 | 24.787 | 317.1 | 0.234 | 5.87 | 101.2 | 1.9 | 0.39 | 0.2 | 0.02 | 0.31 | 0.19 | 72 |
| 1 | 75 ISL | 14.46 | 14.45 | 33.458 | 24.902 | 306.3 | 0.246 | 5.74 | 98.8 | 2.3 | 0.41 | 0.7 | 0.05 | 0.29 | 0.19 | 76 |
| 1 | 79 | 14.28 | 14.27 | 33.375 | 25.031 | 294.2 | 0.258 | 5.57 | 95.6 | 2.9 | 0.43 | 1.7 | 0.08 | 0.25 | 0.19 | 80 |
| 1 | 95 | 11.36 | 11.35 | 33.372 | 25.446 | 254.6 | 0.302 | 4.83 | 77.9 | 9.5 | 1.06 | 11.3 | 0.02 | 0.15 | 0.16 | 96 |
| 1 | 100 ISL | 11.04 | 11.03 | 33.411 | 25.534 | 246.3 | 0.315 | 4.67 | 74.8 | 10.9 | 1.15 | 12.8 | 0.02 | 0.12 | 0.14 | 101 |
| 1 | 109 | 10.75 | 10.74 | 33.520 | 25.670 | 233.6 | 0.336 | 4.39 | 69.9 | 13.4 | 1.26 | 14.9 | 0.01 | 0.07 | 0.09 | IIO |
| 1 | 125 | 10.00 | 9.99 | 33.673 | 25.918 | 210.1 | 0.372 | 3.80 | 59.6 | 19.0 | 1.56 | 19.7 | 0.01 | 0.02 | 0.05 | 126 |
| 1 | 149 | 9.46 | 9.44 | 33.788 | 26.098 | 193.5 | 0.420 | 3.48 | 53.9 | 23.6 | 1.70 | 22.5 | 0.01 | 0.01 | 0.04 | 150 |
| 1 | 150 ISL | 9.44 | 9.42 | 33.793 | 26.105 | 192.8 | 0.422 | 3.46 | 53.6 | 23.8 | 1.71 | 22.6 | 0.01 | 0.01 | 0.04 | 151 |
| 1 | 174 | 8.88 | 8.86 | 33.913 | 26.289 | 175.7 | 0.466 | 3.05 | 46.7 | 29.5 | 1.91 | 25.8 | 0.00 | 0.00 | 0.02 | 175 |
| 1 | 200 ISL | 8.40 | 8.38 | 33.982 | 26.417 | 163.8 | 0.510 | 2.84 | 43.0 | 34.1 | 2.02 | 27.7 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 203 | 8.36 | 8.34 | 33.987 | 26.428 | 162.9 | 0.515 | 2.82 | 42.7 | 34.5 | 2.03 | 27.8 | | | 0.00 | 205 |
| 1 | 232 | 8.06 | 8.04 | 34.022 | 26.500 | 156.4 | 0.562 | 2.65 | 39.8 | 38.2 | 2.13 | 29.1 | | | 0.00 | 234 |
| 1 | 250 ISL | 7.85 | 7.83 | 34.036 | 26.543 | 152.6 | 0.589 | 2.51 | 37.6 | 40.7 | 2.20 | 30.0 | | | 0.00 | 252 |
| 1 | 271 | 7.61 | 7.58 | 34.049 | 26.588 | 148.6 | 0.621 | 2.31 | 34.4 | 43.9 | 2.28 | 31.2 | | | 0.00 | 273 |
| 1 | 300 ISL | 7.29 | 7.26 | 34.071 | 26.651 | 142.9 | 0.663 | 1.96 | 29.0 | 49.3 | 2.43 | 33.1 | | | 0.00 | 302 |
| 1 | 326 | 7.02 | 6.99 | 34.091 | 26.704 | 138.1 | 0.700 | 1.63 | 23.9 | 54.4 | 2.56 | 34.8 | | | 0.00 | 329 |
| 1 | 384 | 6.49 | 6.46 | 34.129 | 26.806 | 128.9 | 0.777 | 1.09 | 15.8 | 64.3 | 2.79 | 37.7 | | | 0.00 | 387 |
| 1 | 400 ISL | 6.37 | 6.33 | 34.141 | 26.831 | 126.7 | 0.798 | 0.97 | 14.0 | 66.8 | 2.84 | 38.5 | | | 0.00 | 403 |
| 1 | 449 | 6.02 | 5.98 | 34.180 | 26.907 | 119.9 | 0.858 | 0.68 | 9.8 | 73.9 | 2.97 | 39.9 | | | 0.01 | 453 |
| 1 | 500 ISL | 5.68 | 5.64 | 34.217 | 26.979 | 113.4 | 0.918 | 0.50 | 7.1 | 81.0 | 3.06 | 41.1 | | | 0.00 | 504 |
| 1 | 519 | 5.56 | 5.52 | 34.231 | 27.005 | 111.1 | 0.939 | 0.43 | 6.1 | 83.6 | 3.10 | 41.6 | | | 0.00 | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 31 45.1 N | 121 18.9 W | 07/03/87 | 0013 GMT | 3695 M | 330 | 22 KT | 330 09 09 | 1 | 1018.0 MB | 16.1 C | 12.0 C | 6/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.10 | 15.10 | 33.291 | 24.634 | 329.6 | 0.000 | 5.85 | 102.0 | 1.9 | 0.35 | 0.2 | 0.00 | 0.14 | 0.04 | 0 |
| 1 | 10 ISL | 15.11 | 15.11 | 33.293 | 24.633 | 330.0 | 0.033 | 5.85 | 102.0 | 2.0 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 10 |
| 1 | 15 | 15.12 | 15.12 | 33.293 | 24.631 | 330.4 | 0.049 | 6.06U | | 2.0 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 15 |
| 1 | 20 ISL | 15.12 | 15.12 | 33.295 | 24.633 | 330.3 | 0.066 | 5.85 | 102.0 | 1.9 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 20 |
| 1 | 30 | 15.13 | 15.13 | 33.298 | 24.633 | 330.6 | 0.099 | 5.85 | 102.0 | 1.7 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 30 |
| 1 | 42 | 15.19 | 15.18 | 33.330 | 24.646 | 329.8 | 0.139 | 5.82 | 101.6 | 1.6 | 0.35 | 0.2 | 0.00 | 0.17 | 0.05 | 42 |
| 1 | 50 ISL | 15.16 | 15.15 | 33.483 | 24.770 | 318.2 | 0.165 | 5.77 | 100.8 | 1.9 | 0.34 | 0.3 | 0.03 | 0.29 | 0.15 | 50 |
| 1 | 51 | 15.16 | 15.15 | 33.504 | 24.786 | 316.7 | 0.168 | 5.76 | 100.6 | 2.0 | 0.34 | 0.3 | 0.04 | 0.30 | 0.16 | 51 |
| 1 | 61 | 14.54 | 14.53 | 33.454 | 24.882 | 307.8 | 0.199 | 5.67 | 97.8 | 2.4 | 0.41 | 1.1 | 0.13 | 0.26 | 0.18 | 61 |
| 1 | 71 | 14.68 | 14.67 | 33.630 | 24.988 | 298.1 | 0.229 | 5.62 | 97.3 | 2.8 | 0.37 | 1.0 | 0.11 | 0.23 | 0.20 | 72 |
| 1 | 75 ISL | 14.68 | 14.67 | 33.676 | 25.023 | 294.8 | 0.241 | 5.59 | 96.8 | 2.7 | 0.36 | 1.0 | 0.10 | 0.23 | 0.20 | 76 |
| 1 | 79 | 14.69 | 14.68 | 33.721 | 25.056 | 291.8 | 0.253 | 5.55 | 96.1 | 2.6 | 0.36 | 1.0 | 0.09 | 0.23 | 0.19 | 80 |
| 1 | 96 | 13.72 | 13.71 | 33.690 | 25.236 | 275.1 | 0.301 | 5.35 | 90.9 | 3.5 | 0.50 | 3.1 | 0.04 | 0.16 | 0.16 | 97 |
| 1 | 100 ISL | 13.49 | 13.48 | 33.687 | 25.281 | 270.9 | 0.312 | 5.30 | 89.6 | 4.1 | 0.54 | 3.7 | 0.03 | 0.15 | 0.15 | 101 |
| 1 | 110 | 12.82 | 12.81 | 33.675 | 25.406 | 259.2 | 0.338 | 5.16 | 86.0 | 5.8 | 0.66 | 5.7 | 0.02 | 0.12 | 0.12 | 111 |
| 1 | 125 ISL | 11.43 | 11.41 | 33.639 | 25.641 | 236.8 | 0.376 | 4.90 | 79.3 | 8.9 | 0.91 | 10.1 | 0.01 | 0.06 | 0.08 | 126 |
| 1 | 126 | 11.34 | 11.32 | 33.637 | 25.656 | 235.4 | 0.378 | 4.88 | 78.8 | 9.2 | 0.93 | 10.4 | 0.01 | 0.06 | 0.08 | 127 |
| 1 | 149 | 9.85 | 9.83 | 33.630 | 25.910 | 211.4 | 0.429 | 4.05 | 63.3 | 18.5 | 1.52 | 19.3 | 0.00 | 0.01 | 0.05 | 150 |
| 1 | 150 ISL | 9.82 | 9.80 | 33.637 | 25.921 | 210.4 | 0.432 | 4.03 | 62.9 | 18.8 | 1.52 | 19.5 | 0.00 | 0.01 | 0.05 | 151 |
| 1 | 175 | 9.30 | 9.28 | 33.838 | 26.164 | 187.8 | 0.481 | 3.70 | 57.2 | 23.6 | 1.64 | 21.8 | 0.00 | 0.00 | 0.03 | 176 |
| 1 | 200 ISL | 8.93 | 8.91 | 33.910 | 26.279 | 177.1 | 0.527 | 3.42 | 52.4 | 27.5 | 1.78 | 24.0 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 204 | 8.87 | 8.85 | 33.916 | 26.293 | 175.8 | 0.534 | 3.38 | 51.7 | 28.1 | 1.80 | 24.3 | 0.00 | 0.00 | 0.03 | 206 |
| 1 | 232 | 8.40 | 8.38 | 33.978 | 26.415 | 164.7 | 0.582 | 3.17 | 48.0 | 32.5 | 1.93 | 26.2 | 0.00 | | 0.00 | 234 |
| 1 | 270 | 7.83 | 7.80 | 34.025 | 26.537 | 153.5 | 0.642 | 2.73 | 40.8 | 39.7 | 2.14 | 29.1 | | | | 272 |
| 1 | 300 ISL | 7.40 | 7.37 | 34.045 | 26.615 | 146.4 | 0.687 | 2.35 | 34.8 | 46.0 | 2.31</ | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 31 25.1 N | 121 59.5 W | 06/03/87 | 1748 GMT | 3928 M | 330 | 20 KT | 330 09 09 | 1 | 1019.1 MB | 16.0 C | 14.7 C | 2/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.33 | 14.33 | 33.241 | 24.760 | 317.6 | 0.000 | 6.00 | 102.9 | 2.2 | 0.38 | 0.2 | 0.00 | 0.31 | 0.09 | 0 |
| 1 | 1 ISL | 14.33 | 14.33 | 33.241 | 24.760 | 317.7 | 0.003 | 6.00 | 102.9 | 2.2 | 0.38 | 0.2 | 0.00 | 0.31 | 0.09 | 1 |
| 1 | 10 ISL | 14.30 | 14.30 | 33.239 | 24.765 | 317.4 | 0.032 | 5.99 | 102.7 | 2.3 | 0.37 | 0.1 | 0.00 | 0.28 | 0.08 | 10 |
| 1 | 11 ISL | 14.30 | 14.30 | 33.239 | 24.765 | 317.5 | 0.035 | 5.99 | 102.7 | 2.3 | 0.37 | 0.1 | 0.00 | 0.28 | 0.08 | 11 |
| 1 | 20 ISL | 14.29 | 14.29 | 33.240 | 24.768 | 317.4 | 0.064 | 5.99 | 102.7 | 2.4 | 0.37 | 0.1 | 0.00 | 0.29 | 0.08 | 20 |
| 1 | 30 ISL | 14.27 | 14.27 | 33.242 | 24.774 | 317.1 | 0.095 | 5.98 | 102.5 | 2.4 | 0.38 | 0.1 | 0.00 | 0.30 | 0.09 | 30 |
| 1 | 31 ISL | 14.27 | 14.27 | 33.242 | 24.774 | 317.2 | 0.098 | 5.98 | 102.5 | 2.4 | 0.38 | 0.1 | 0.00 | 0.30 | 0.09 | 31 |
| 1 | 40 ISL | 14.23 | 14.22 | 33.243 | 24.783 | 316.5 | 0.127 | 5.99 | 102.5 | 2.4 | 0.39 | 0.2 | 0.01 | 0.38 | 0.13 | 40 |
| 1 | 50 ISL | 14.00 | 13.99 | 33.208 | 24.805 | 314.8 | 0.158 | 5.96 | 101.5 | 2.5 | 0.39 | 0.3 | 0.04 | 0.38 | 0.16 | 50 |
| 1 | 60 ISL | 13.64 | 13.63 | 33.134 | 24.822 | 313.4 | 0.190 | 5.93 | 100.2 | 2.9 | 0.44 | 0.5 | 0.13 | 0.32 | 0.15 | 60 |
| 1 | 72 ISL | 13.35 | 13.34 | 33.149 | 24.892 | 307.0 | 0.227 | 5.81 | 97.6 | 3.2 | 0.52 | 1.8 | 0.16 | 0.20 | 0.12 | 73 |
| 1 | 75 ISL | 12.93 | 12.92 | 33.159 | 24.983 | 298.3 | 0.236 | 5.68 | 94.6 | 4.2 | 0.61 | 3.4 | 0.10 | 0.16 | 0.11 | 76 |
| 1 | 79 ISL | 12.33 | 12.32 | 33.176 | 25.113 | 286.1 | 0.248 | 5.49 | 90.3 | 5.6 | 0.74 | 5.7 | 0.02 | 0.11 | 0.10 | 80 |
| 1 | 94 ISL | 11.27 | 11.26 | 33.221 | 25.344 | 264.2 | 0.289 | 5.03 | 80.9 | 9.1 | 1.01 | 10.3 | 0.02 | 0.09 | 0.12 | 95 |
| 1 | 100 ISL | 11.02 | 11.01 | 33.276 | 25.432 | 256.0 | 0.305 | 4.87 | 77.9 | 10.5 | 1.09 | 11.9 | 0.02 | 0.07 | 0.10 | 101 |
| 1 | 109 ISL | 10.71 | 10.70 | 33.376 | 25.565 | 243.5 | 0.327 | 4.63 | 73.6 | 12.7 | 1.21 | 14.1 | 0.01 | 0.05 | 0.06 | 110 |
| 1 | 124 ISL | 10.13 | 10.12 | 33.540 | 25.793 | 222.1 | 0.362 | 4.15 | 65.2 | 16.7 | 1.41 | 17.7 | 0.01 | 0.02 | 0.04 | 125 |
| 1 | 125 ISL | 10.09 | 10.08 | 33.550 | 25.807 | 220.7 | 0.364 | 4.12 | 64.7 | 17.0 | 1.42 | 17.9 | 0.01 | 0.02 | 0.04 | 126 |
| 1 | 148 ISL | 9.36 | 9.34 | 33.747 | 26.082 | 194.9 | 0.412 | 3.56 | 55.1 | 23.6 | 1.69 | 22.4 | 0.01 | 0.00 | 0.05 | 149 |
| 1 | 150 ISL | 9.31 | 9.29 | 33.765 | 26.104 | 192.8 | 0.416 | 3.50 | 54.1 | 24.2 | 1.71 | 22.8 | 0.01 | 0.00 | 0.05 | 151 |
| 1 | 173 ISL | 8.83 | 8.81 | 33.936 | 26.315 | 173.2 | 0.458 | 2.92 | 44.7 | 30.7 | 1.93 | 26.1 | 0.00 | 0.00 | 0.03 | 174 |
| 1 | 200 ISL | 8.36 | 8.34 | 33.992 | 26.432 | 162.5 | 0.503 | 2.86 | 43.3 | 34.6 | 2.01 | 27.3 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 203 ISL | 8.31 | 8.29 | 33.993 | 26.440 | 161.7 | 0.508 | 2.85 | 43.1 | 34.9 | 2.01 | 27.4 | 0.00 | 0.00 | 0.02 | 205 |
| 1 | 231 ISL | 7.82 | 7.80 | 34.027 | 26.540 | 152.5 | 0.552 | 2.63 | 39.3 | 40.1 | 2.13 | 29.2 | 0.00 | | | 233 |
| 1 | 250 ISL | 7.54 | 7.52 | 34.044 | 26.594 | 147.6 | 0.581 | 2.36 | 35.1 | 44.2 | 2.24 | 30.8 | 0.00 | | | 252 |
| 1 | 271 ISL | 7.31 | 7.28 | 34.065 | 26.643 | 143.2 | 0.611 | 2.03 | 30.0 | 48.6 | 2.37 | 32.5 | 0.00 | | | 273 |
| 1 | 300 ISL | 7.20 | 7.17 | 34.113 | 26.696 | 138.6 | 0.652 | 1.61 | 23.7 | 52.7 | 2.52 | 34.0 | 0.00 | | | 302 |
| 1 | 325 ISL | 7.12 | 7.09 | 34.149 | 26.736 | 135.1 | 0.686 | 1.30 | 19.1 | 55.8 | 2.63 | 35.0 | 0.00 | | | 328 |
| 1 | 385 ISL | 6.42 | 6.39 | 34.147 | 26.829 | 126.7 | 0.765 | 0.99 | 14.3 | 65.8 | 2.81 | 37.7 | 0.00 | | | 388 |
| 1 | 400 ISL | 6.29 | 6.25 | 34.158 | 26.855 | 124.4 | 0.784 | 0.89 | 12.8 | 68.1 | 2.85 | 38.3 | 0.00 | | | 403 |
| 1 | 448 ISL | 5.95 | 5.91 | 34.200 | 26.932 | 117.5 | 0.842 | 0.61 | 8.7 | 74.8 | 2.97 | 39.8 | 0.00 | | | 452 |
| 1 | 500 ISL | 5.66 | 5.62 | 34.229 | 26.991 | 112.3 | 0.902 | 0.47 | 6.7 | 80.8 | 3.05 | 40.8 | 0.00 | | | 504 |
| 1 | 517 ISL | 5.56 | 5.52 | 34.239 | 27.011 | 110.5 | 0.921 | 0.42 | 6.0 | 82.7 | 3.08 | 41.1 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 31 5.1 N | 122 39.8 W | 06/03/87 | 1141 GMT | 4070 M | 330 | 25 KT | 330 09 09 | 1 | 1016.9 MB | 14.8 C | 12.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.27 | 14.27 | 33.050 | 24.625 | 330.5 | 0.000 | 5.95 | 101.8 | 1.8 | 0.39 | 0.2 | 0.00 | 0.16 | 0.04 | 0 |
| 1 | 2 ISL | 14.27 | 14.27 | 33.050 | 24.625 | 330.5 | 0.007 | 5.95 | 101.8 | 1.8 | 0.39 | 0.2 | 0.00 | 0.16 | 0.04 | 2 |
| 1 | 10 ISL | 14.27 | 14.27 | 33.051 | 24.626 | 330.6 | 0.033 | 5.96 | 102.0 | 1.7 | 0.39 | 0.2 | 0.00 | 0.16 | 0.04 | 10 |
| 1 | 17 ISL | 14.27 | 14.27 | 33.053 | 24.628 | 330.7 | 0.056 | | | 1.6 | 0.39 | 0.2 | 0.00 | 0.16 | 0.04 | 17 |
| 1 | 20 ISL | 14.24 | 14.24 | 33.055 | 24.635 | 330.0 | 0.066 | 5.98 | 102.3 | 1.6 | 0.39 | 0.2 | 0.00 | 0.17 | 0.04 | 20 |
| 1 | 30 ISL | 14.11 | 14.11 | 33.067 | 24.672 | 326.8 | 0.099 | 5.99 | 102.2 | 1.7 | 0.39 | 0.2 | 0.00 | 0.22 | 0.07 | 30 |
| 1 | 37 ISL | 14.01 | 14.00 | 33.081 | 24.704 | 324.0 | 0.122 | 5.99 | 102.0 | 1.8 | 0.39 | 0.2 | 0.00 | 0.27 | 0.09 | 37 |
| 1 | 50 ISL | 13.93 | 13.92 | 33.132 | 24.760 | 319.0 | 0.164 | 5.97 | 101.5 | 1.9 | 0.40 | 0.3 | 0.02 | 0.36 | 0.16 | 50 |
| 1 | 58 ISL | 13.88 | 13.87 | 33.159 | 24.792 | 316.2 | 0.189 | 5.94 | 100.9 | 2.0 | 0.40 | 0.4 | 0.04 | 0.39 | 0.19 | 58 |
| 1 | 72 ISL | 13.68 | 13.67 | 33.156 | 24.831 | 312.9 | 0.233 | 5.87 | 99.3 | 2.2 | 0.44 | 0.9 | 0.11 | 0.33 | 0.16 | 73 |
| 1 | 75 ISL | 13.52 | 13.51 | 33.146 | 24.855 | 310.6 | 0.242 | 5.82 | 98.1 | 2.4 | 0.48 | 1.4 | 0.11 | 0.30 | 0.16 | 76 |
| 1 | 81 ISL | 13.18 | 13.17 | 33.141 | 24.920 | 304.5 | 0.261 | 5.70 | 95.4 | 3.0 | 0.55 | 2.6 | 0.12 | 0.24 | 0.16 | 82 |
| 1 | 91 ISL | 12.79 | 12.78 | 33.244 | 25.077 | 289.8 | 0.290 | 5.49 | 91.2 | 3.8 | 0.60 | 3.7 | 0.06 | 0.18 | 0.17 | 92 |
| 1 | 100 ISL | 12.66 | 12.66 | 33.402 | 25.223 | 276.2 | 0.316 | 5.39 | 89.4 | 4.6 | 0.63 | 4.8 | 0.04 | 0.14 | 0.16 | 101 |
| 1 | 102 ISL | 12.61 | 12.61 | 33.428 | 25.253 | 273.4 | 0.321 | 5.36 | 88.8 | 4.9 | 0.65 | 5.2 | 0.04 | 0.13 | 0.15 | 103 |
| 1 | 111 ISL | 11.86 | 11.85 | 33.391 | 25.369 | 262.4 | 0.346 | 5.12 | 83.5 | 7.0 | 0.83 | 8.1 | 0.02 | 0.10 | 0.13 | 112 |
| 1 | 125 ISL | 10.76 | 10.75 | 33.424 | 25.594 | 241.1 | 0.381 | 4.68 | 74.5 | 12.6 | 1.22 | 14.3 | 0.01 | 0.05 | 0.08 | 126 |
| 1 | 126 ISL | 10.70 | 10.68 | 33.430 | 25.609 | 239.7 | 0.383 | 4.19 | 66.2 | 13.0 | 1.24 | 14.7 | 0.01 | 0.05 | 0.08 | 127 |
| 1 | 1*1 ISL | 10.35 | 10.33 | 33.534 | 25.751 | 226.5 | 0.418 | 4.19 | 66.2 | 15.7 | 1.36 | 16.9 | 0.01 | 0.04 | 0.06 | 142 |
| 1 | 150 ISL | 10.04 | 10.04 | 33.586 | 25.841 | 218.0 | 0.438 | 3.98 | 62.5 | 17.8 | 1.45 | 18.6 | 0.01 | 0.03 | 0.04 | 151 |
| 1 | 161 ISL | 9.71 | 9.69 | 33.651 | 25.950 | 207.8 | 0.462 | 3.76 | 58.6 | 20.6 | 1.57 | 20.7 | 0.00 | 0.01 | 0.03 | 162 |
| 1 | 181 ISL | 9.24 | 9.22 | 33.797 | 26.141 | 190.0 | 0.501 | 3.40 | 52.4 | 25.2 | 1.74 | 23.5 | 0.00 | 0.00 | 0.03 | 182 |
| 1 | 200 ISL | 8.94 | 8.92 | 33.883 | 26.257 | 179.3 | 0.536 | 3.12 | 47.8 | 29.2 | 1.85 | 25.2 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 206 ISL | 8.85 | 8.83 | 33.903 | 26.286 | 176.5 | 0.547 | 3.06 | 46.8 | 30.3 | 1.88 | 25.6 | 0.00 | 0.00 | 0 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 IIO

| LATITUDE 30 45.1 N | LONGITUDE 123 19.9 W | DAY/MO/YR 06/03/87 | MESSENGER 0524 | BOTTOM 4194 M | WIND 350 22 KT | SPEED 22 KT | WAVES | WEATHER | BAROMETER 1016.3 MB | DRY 15.2 C | WET 13.2 C | CLOUD AMT TYPE | | | | | |
|-----------------------|-------------------------|-----------------------|-------------------|------------------|-------------------|----------------|-------|---------|------------------------|---------------|---------------|----------------|----------|-------|-------|-------|-------|
| | | | | | | | | | | | | GMT | SALINITY | SIGMA | SVA | DYN | HT |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.61 | 15.61 | 33.355 | 24.571 | 335.6 | 0.000 | | 5.77 | 101.6 | 1.7 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 0 |
| 1 | 1 | 15.61 | 15.61 | 33.355 | 24.571 | 335.7 | 0.003 | | 5.77 | 101.6 | 1.7 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 1 |
| 1 | 10 ISL | 15.60 | 15.60 | 33.352 | 24.571 | 335.9 | 0.034 | | 5.77 | 101.6 | 1.7 | 0.32 | 0.2 | 0.00 | 0.09 | 0.02 | 10 |
| 1 | 16 | 15.60 | 15.60 | 33.351 | 24.570 | 336.2 | 0.054 | | 5.77 | 101.6 | 1.7 | 0.32 | 0.2 | 0.00 | 0.09 | 0.02 | 16 |
| 1 | 20 ISL | 15.63 | 15.63 | 33.361 | 24.572 | 336.2 | 0.067 | | 5.76 | 101.5 | 1.7 | 0.32 | 0.2 | 0.00 | 0.09 | 0.02 | 20 |
| 1 | 30 ISL | 15.73 | 15.73 | 33.400 | 24.580 | 335.7 | 0.101 | | 5.75 | 101.5 | 1.7 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 30 |
| 1 | 37 | 15.84 | 15.83 | 33.438 | 24.584 | 335.5 | 0.124 | | 5.73 | 101.4 | 1.8 | 0.30 | 0.2 | 0.00 | 0.08 | 0.02 | 37 |
| 1 | 50 ISL | 16.13 | 16.12 | 33.542 | 24.599 | 334.5 | 0.168 | | 5.69 | 101.3 | 2.0 | 0.29 | 0.2 | 0.00 | 0.09 | 0.03 | 50 |
| 1 | 58 | 16.24 | 16.23 | 33.589 | 24.611 | 333.7 | 0.195 | | 5.67 | 101.2 | 2.1 | 0.29 | 0.2 | 0.00 | 0.10 | 0.03 | 58 |
| 1 | 72 | 16.01 | 16.00 | 33.556 | 24.638 | 331.5 | 0.241 | | 5.70 | 101.3 | 1.8 | 0.29 | 0.2 | 0.00 | 0.14 | 0.04 | 73 |
| 1 | 75 ISL | 16.08 | 16.07 | 33.581 | 24.642 | 331.3 | 0.251 | | 5.69 | 101.2 | 1.8 | 0.29 | 0.2 | 0.00 | 0.13 | 0.04 | 76 |
| 1 | 81 | 16.19 | 16.18 | 33.623 | 24.649 | 330.8 | 0.271 | | 5.67 | 101.1 | 1.8 | 0.28 | 0.2 | 0.00 | 0.13 | 0.04 | 82 |
| 1 | 90 | 15.91 | 15.90 | 33.571 | 24.673 | 328.8 | 0.301 | | 5.69 | 100.9 | 1.9 | 0.30 | 0.2 | 0.02 | 0.18 | 0.08 | 91 |
| 1 | 100 | 14.86 | 14.85 | 33.503 | 24.852 | 311.9 | 0.333 | | 5.71 | 99.1 | 2.2 | 0.36 | 0.6 | 0.07 | 0.18 | 0.12 | 101 |
| 1 | 110 | 13.77 | 13.75 | 33.406 | 25.007 | 297.3 | 0.363 | | 5.67 | 96.2 | 2.9 | 0.43 | 1.6 | 0.10 | 0.17 | 0.12 | 111 |
| 1 | 125 | 13.56 | 13.54 | 33.493 | 25.117 | 287.1 | 0.407 | | 5.53 | 93.5 | 3.3 | 0.47 | 2.6 | 0.04 | 0.14 | 0.11 | 126 |
| 1 | 141 | 13.34 | 13.32 | 33.642 | 25.277 | 272.3 | 0.452 | | 5.30 | 89.3 | 4.2 | 0.55 | 4.0 | 0.02 | 0.12 | 0.13 | 142 |
| 1 | 150 ISL | 12.88 | 12.86 | 33.673 | 25.393 | 261.4 | 0.476 | | 5.17 | 86.3 | 5.4 | 0.64 | 5.5 | 0.01 | 0.09 | 0.11 | 151 |
| 1 | 161 | 12.09 | 12.07 | 33.684 | 25.554 | 246.1 | 0.504 | | 4.99 | 81.9 | 7.6 | 0.79 | 8.1 | 0.01 | 0.06 | 0.07 | 162 |
| 1 | 181 | 10.32 | 10.30 | 33.700 | 25.886 | 214.5 | 0.550 | | 4.60 | 72.6 | 13.8 | 1.15 | 14.4 | 0.00 | 0.02 | 0.03 | 182 |
| 1 | 200 ISL | 9.39 | 9.37 | 33.807 | 26.125 | 192.0 | 0.588 | | 4.49 | 69.5 | 18.5 | 1.32 | 17.8 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 205 | 9.22 | 9.20 | 33.839 | 26.178 | 187.0 | 0.598 | | 4.46 | 68.8 | 19.7 | 1.36 | 18.5 | 0.00 | 0.00 | 0.02 | 207 |
| 1 | 233 | 8.43 | 8.41 | 33.951 | 26.389 | 167.2 | 0.647 | | 3.93 | 59.6 | 28.2 | 1.66 | 23.0 | 0.00 | | 0.00 | 235 |
| 1 | 250 ISL | 8.17 | 8.14 | 33.974 | 26.447 | 161.9 | 0.675 | | 3.76 | 56.7 | 31.0 | 1.74 | 24.3 | 0.00 | | 0.00 | 252 |
| 1 | 272 | 7.92 | 7.89 | 33.981 | 26.490 | 158.0 | 0.711 | | 3.56 | 53.3 | 34.0 | 1.82 | 25.6 | 0.00 | | 0.00 | 274 |
| 1 | 300 ISL | 7.48 | 7.45 | 33.996 | 26.565 | 151.1 | 0.754 | | 3.08 | 45.7 | 40.5 | 2.02 | 28.3 | 0.00 | | 0.00 | 302 |
| 1 | 327 | 7.08 | 7.05 | 34.008 | 26.631 | 145.1 | 0.794 | | 2.60 | 38.2 | 47.0 | 2.21 | 31.0 | 0.00 | | 0.00 | 330 |
| 1 | 385 | 6.50 | 6.47 | 34.028 | 26.725 | 136.6 | 0.875 | | 1.95 | 28.3 | 56.5 | 2.47 | 34.6 | 0.00 | | 0.00 | 388 |
| 1 | 400 ISL | 6.38 | 6.34 | 34.037 | 26.748 | 134.6 | 0.896 | | 1.78 | 25.7 | 58.8 | 2.54 | 35.4 | 0.00 | | 0.00 | 403 |
| 1 | 451 | 6.03 | 5.99 | 34.078 | 26.825 | 127.6 | 0.963 | | 1.24 | 17.8 | 66.6 | 2.74 | 37.9 | 0.00 | | 0.00 | 454 |
| 1 | 500 ISL | 5.74 | 5.70 | 34.128 | 26.901 | 120.8 | 1.024 | | 0.87 | 12.4 | 74.4 | 2.89 | 39.6 | 0.00 | | 0.00 | 504 |
| 1 | 521 | 5.62 | 5.58 | 34.150 | 26.934 | 117.9 | 1.049 | | 0.71 | 10.1 | 77.7 | 2.96 | 40.4 | 0.00 | | 0.00 | 525 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 120

| LATITUDE 30 25.1 N | LONGITUDE 123 59.9 W | DAY/MO/YR 05/03/87 | MESSENGER 2326 | BOTTOM 4213 M | WIND 350 21 KT | SPEED 21 KT | WAVES | WEATHER | BAROMETER 1013.2 MB | DRY 17.9 C | WET 14.9 C | CLOUD AMT SC | | | | | |
|-----------------------|-------------------------|-----------------------|-------------------|------------------|-------------------|----------------|-------|---------|------------------------|---------------|---------------|--------------|----------|-------|-------|-------|-------|
| | | | | | | | | | | | | GMT | SALINITY | SIGMA | SVA | DYN | HT |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.88 | 16.88 | 33.779 | 24.606 | 332.2 | 0.000 | | 5.60 | 101.3 | 1.8 | 0.27 | 0.2 | 0.00 | 0.10 | 0.02 | 0 |
| 1 | 1 | 16.88 | 16.88 | 33.779 | 24.606 | 332.3 | 0.003 | | 5.60 | 101.3 | 1.8 | 0.27 | 0.2 | 0.00 | 0.10 | 0.02 | 1 |
| 1 | 10 ISL | 16.87 | 16.87 | 33.781 | 24.611 | 332.2 | 0.033 | | 5.60 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.10 | 0.02 | 10 |
| 1 | 16 | 16.87 | 16.87 | 33.783 | 24.612 | 332.2 | 0.053 | | 5.60 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.10 | 0.02 | 16 |
| 1 | 20 ISL | 16.87 | 16.87 | 33.785 | 24.614 | 332.2 | 0.066 | | 5.60 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.11 | 0.03 | 20 |
| 1 | 30 ISL | 16.88 | 16.88 | 33.791 | 24.617 | 332.3 | 0.100 | | 5.60 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.11 | 0.03 | 30 |
| 1 | 36 | 16.88 | 16.87 | 33.794 | 24.619 | 332.3 | 0.120 | | 5.60 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.11 | 0.03 | 36 |
| 1 | 50 ISL | 16.94 | 16.93 | 33.817 | 24.623 | 332.3 | 0.166 | | 5.57 | 100.9 | 1.7 | 0.27 | 0.2 | 0.00 | 0.12 | 0.03 | 50 |
| 1 | 57 | 16.97 | 16.96 | 33.827 | 24.624 | 332.4 | 0.189 | | 5.56 | 100.8 | 1.7 | 0.27 | 0.2 | 0.00 | 0.12 | 0.03 | 57 |
| 1 | 71 | 16.97 | 16.96 | 33.830 | 24.627 | 332.7 | 0.236 | | 5.59 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.12 | 0.03 | 72 |
| 1 | 75 ISL | 16.97 | 16.96 | 33.830 | 24.627 | 332.8 | 0.249 | | 5.59 | 101.3 | 1.7 | 0.26 | 0.2 | 0.00 | 0.12 | 0.03 | 76 |
| 1 | 80 | 16.96 | 16.96 | 33.831 | 24.628 | 332.9 | 0.266 | | 5.58 | 101.1 | 1.7 | 0.26 | 0.2 | 0.00 | 0.12 | 0.03 | 81 |
| 1 | 90 | 16.96 | 16.95 | 33.833 | 24.632 | 332.8 | 0.299 | | 5.57 | 100.9 | 1.7 | 0.26 | 0.2 | 0.00 | 0.12 | 0.03 | 91 |
| 1 | 100 | 16.97 | 16.95 | 33.835 | 24.632 | 333.2 | 0.332 | | 5.57 | 101.0 | 1.6 | 0.26 | 0.2 | 0.00 | 0.13 | 0.04 | 101 |
| 1 | 109 | 16.96 | 16.94 | 33.836 | 24.635 | 333.2 | 0.362 | | 5.58 | 101.1 | 1.6 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 100 |
| 1 | 125 | 14.81 | 14.79 | 33.664 | 24.988 | 299.7 | 0.413 | | 5.53 | 96.0 | 2.3 | 0.37 | 0.8 | 0.06 | 0.26 | 0.28 | 126 |
| 1 | 139 | 13.74 | 13.72 | 33.606 | 25.168 | 282.7 | 0.454 | | 5.38 | 91.3 | 3.2 | 0.50 | 2.7 | 0.03 | 0.17 | 0.24 | 140 |
| 1 | 150 ISL | 13.15 | 13.13 | 33.633 | 25.309 | 269.5 | 0.484 | | 5.22 | 87.6 | 4.3 | 0.60 | 4.5 | 0.02 | 0.11 | 0.16 | 151 |
| 1 | 159 | 12.70 | 12.68 | 33.662 | 25.420 | 259.0 | 0.508 | | 5.06 | 84.1 | 5.5 | 0.69 | 6.2 | 0.01 | 0.08 | 0.10 | 160 |
| 1 | 178 | 1 | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 26.7

| LATITUDE | | | | LONGITUDE | | DAY/MO/YR | MESSENGER | BOTTOM | | WIND | SPEED | WAVES | | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE |
|-----------|--------|-------|----------|------------|--------|-----------|-----------|--------|-------|------|-------|--------|------|---------|-----------|-----------|--------|--------|--------|-------|
| 32 57.3 N | | | | 117 18.3 W | | 03/03/87 | 0108 GMT | 65 M | | 280 | 12 KT | 290 | 02 | 03 | 1 | 1018.9 MB | 14.5 C | 12.0 C | 6/8 | CS |
| CAST | DEPTH | TEMP | POT TEMP | DEG C | DEG C | | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | | | | | | | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.81 | 14.81 | 33.399 | 24.780 | 315.7 | 0.000 | 5.93 | 102.8 | 1.8 | 0.35 | 1.0 | 0.00 | 0.22 | 0.05 | 0.05 | 0 | | | |
| 1 | 1 | 14.81 | 14.81 | 33.399 | 24.780 | 315.8 | 0.003 | 5.93 | 102.8 | 1.8 | 0.35 | 1.0 | 0.00 | 0.22 | 0.05 | 0.05 | 1 | | | |
| 1 | 10 ISL | 14.61 | 14.61 | 33.395 | 24.820 | 312.2 | 0.031 | 5.95 | 102.7 | 1.7 | 0.35 | 0.9 | 0.00 | 0.25 | 0.09 | 0.09 | 10 | | | |
| 1 | 11 | 14.58 | 14.58 | 33.395 | 24.826 | 311.6 | 0.035 | 5.95 | 102.7 | 1.7 | 0.35 | 0.9 | 0.00 | 0.26 | 0.10 | 0.10 | 11 | | | |
| 1 | 20 ISL | 14.52 | 14.52 | 33.392 | 24.837 | 310.9 | 0.063 | 5.90 | 101.7 | 1.7 | 0.40 | 1.1 | 0.01 | 0.34 | 0.14 | 0.14 | 20 | | | |
| 1 | 21 | 14.51 | 14.51 | 33.392 | 24.839 | 310.7 | 0.066 | 5.90 | 101.7 | 1.7 | 0.40 | 1.1 | 0.01 | 0.35 | 0.15 | 0.15 | 21 | | | |
| 1 | 30 ISL | 14.36 | 14.36 | 33.388 | 24.868 | 308.2 | 0.094 | 5.94 | 102.0 | 2.2 | 0.37 | 1.1 | 0.02 | 0.74 | 0.23 | 0.23 | 30 | | | |
| 1 | 31 | 14.33 | 14.33 | 33.387 | 24.873 | 307.7 | 0.097 | 5.94 | 102.0 | 2.3 | 0.37 | 1.1 | 0.02 | 0.81 | 0.24 | 0.24 | 31 | | | |
| 1 | 42 | 13.77 | 13.76 | 33.377 | 24.982 | 297.6 | 0.130 | 5.75 | 97.6 | 3.6 | 0.49 | 2.5 | 0.08 | 2.03 | 0.27 | 0.27 | 42 | | | |
| 1 | 50 ISL | 12.54 | 12.53 | 33.438 | 25.275 | 269.9 | 0.153 | 5.01 | 82.9 | 7.4 | 0.84 | 8.0 | 0.10 | 0.73 | 0.32 | 0.32 | 50 | | | |
| 1 | 52 | 12.23 | 12.22 | 33.456 | 25.348 | 263.0 | 0.158 | 4.82 | 79.2 | 8.3 | 0.93 | 9.4 | 0.11 | 0.40 | 0.33 | 0.33 | 52 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 28

| LATITUDE | | | | LONGITUDE | | DAY/MO/YR | MESSENGER | BOTTOM | | WIND | SPEED | WAVES | | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE |
|-----------|-------|-------|----------|------------|--------|-----------|-----------|--------|-------|------|-------|--------|------|---------|-----------|-----------|--------|--------|--------|-------|
| 32 54.8 N | | | | 117 23.7 W | | 03/03/87 | 0459 GMT | 603 M | | 320 | 08 KT | 290 | 02 | 03 | 1 | 1019.5 MB | 14.9 C | 11.9 C | | |
| CAST | DEPTH | TEMP | POT TEMP | DEG C | DEG C | | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | | | | | | | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.70 | | 33.379 | 24.812 | 313.0 | | 5.93 | 102.3 | .1.8 | 0.36 | 0.9 | 0.00 | 0.20 | 0.08 | 0 | | | | |
| 1 | 9 | 14.59 | 14.59 | 33.378 | 24.820 | 312.6 | | 5.95 | 102.6 | 1.8 | 0.38 | 0.9 | 0.00 | 0.30 | 0.12 | 0.12 | 20 | | | |
| 1 | 20 | 14.55 | 14.55 | 33.378 | 24.825 | 312.4 | | 5.94 | 102.4 | 1.7 | 0.36 | 0.9 | 0.00 | 0.25 | 0.12 | 0.12 | 30 | | | |
| 1 | 30 | 14.52 | 14.52 | 33.376 | 24.825 | 312.4 | | | | | | | | | | | 39 | | | |
| 1 | 39 | 13.30 | 13.29 | | | | | | | | | | | | | | | 48 | | |
| 1 | 48 | 12.29 | 12.28 | | | | | | | | | | | | | | | 59 | | |
| 1 | 59 | 12.09 | 12.08 | 33.490 | 25.401 | 258.1 | | | | | | | | | | | | 69 | | |
| 1 | 68 | 11.65 | 11.64 | | | | | | | | | | | | | | | 84 | | |
| 1 | 83 | 11.02 | 11.01 | | | | | | | | | | | | | | | 103 | | |
| 1 | 102 | 10.57 | 10.56 | 33.669 | 25.817 | 219.4 | | | | | | | | | | | | 146 | | |
| 1 | 145P | 9.63 | 9.61 | | | | | | | | | | | | | | | 207 | | |
| 1 | 205P | 9.03 | 9.01 | 34.151 | 26.452 | 160.9 | | | | | | | | | | | | 274 | | |
| 1 | 272P | 8.70 | 8.67 | 34.199 | 26.543 | 153.5 | | | | | | | | | | | | 352 | | |
| 1 | 349P | 8.31 | 8.27 | 34.227 | 26.626 | 146.9 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 30

| LATITUDE | | | | LONGITUDE | | DAY/MO/YR | MESSENGER | BOTTOM | | WIND | SPEED | WAVES | | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE |
|-----------|---------|-------|----------|------------|--------|-----------|-----------|--------|-------|------|-------|--------|------|---------|-----------|-----------|--------|--------|--------|-------|
| 32 50.8 N | | | | 117 31.9 W | | 03/03/87 | 0816 GMT | 888 M | | 320 | 08 KT | 290 | 02 | 03 | 1 | 1021.0 MB | 14.2 C | 11.7 C | | |
| CAST | DEPTH | TEMP | POT TEMP | DEG C | DEG C | | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | | | | | | | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.57 | 14.57 | 33.377 | 24.814 | 312.5 | 0.000 | 6.14 | 105.9 | 2.2 | 0.35 | 0.8 | 0.00 | 0.45 | 0.06 | 0 | | | | |
| 1 | 1 | 14.57 | 14.57 | 33.377 | 24.814 | 312.5 | 0.003 | 6.14 | 105.9 | 2.2 | 0.35 | 0.8 | 0.00 | 0.45 | 0.06 | 1 | | | | |
| 1 | 10 ISL | 14.53 | 14.53 | 33.374 | 24.820 | 312.1 | 0.031 | 6.27 | 108.1 | 2.0 | 0.39 | 0.9 | 0.01 | 0.45 | 0.08 | 10 | | | | |
| 1 | 20 | 14.08 | 14.08 | 33.346 | 24.894 | 305.5 | 0.062 | 6.26 | 106.9 | 3.0 | 0.40 | 1.1 | 0.02 | 2.86 | 0.15 | 20 | | | | |
| 1 | 30 ISL | 13.89 | 13.89 | 33.353 | 24.939 | 301.5 | 0.092 | 6.04 | 102.7 | 3.8 | 0.47 | 1.6 | 0.05 | 2.13 | 0.21 | 30 | | | | |
| 1 | 31 | 13.85 | 13.85 | 33.349 | 24.944 | 301.0 | 0.095 | 5.99 | 101.8 | 3.9 | 0.48 | 1.6 | 0.06 | 6.21U | -0.38U | 31 | | | | |
| 1 | 40 | 12.85 | 12.84 | 33.380 | 25.169 | 279.8 | 0.122 | 5.23 | 87.1 | 5.9 | 0.75 | 6.3 | 0.13 | 0.58 | 0.27 | 40 | | | | |
| 1 | 50 | 12.43 | 12.42 | 33.452 | 25.307 | 266.9 | 0.149 | 4.89 | 80.7 | 7.8 | 0.88 | 8.7 | 0.20 | 0.50 | 0.33 | 50 | | | | |
| 1 | 60 | 12.01 | 12.00 | 33.495 | 25.420 | 265.3 | 0.175 | 4.75 | 77.7 | 9.2 | 0.97 | 10.3 | 0.22 | 0.36 | 0.31 | 60 | | | | |
| 1 | 70 | 11.73 | 11.72 | 33.534 | 25.503 | 248.6 | 0.200 | 4.48 | 72.9 | 11.0 | 1.08 | 12.1 | 0.06 | 0.26 | 0.28 | 70 | | | | |
| 1 | 75 ISL | 11.56 | 11.55 | 33.571 | 25.563 | 243.0 | 0.213 | 4.28 | 69.4 | 12.5 | 1.16 | 13.5 | 0.04 | 0.21 | 0.25 | 76 | | | | |
| 1 | 83 | 11.23 | 11.22 | 33.629 | 25.669 | 233.1 | 0.232 | 3.99 | 64.3 | 14.9 | 1.29 | 15.7 | 0.02 | 0.13 | 0.19 | 84 | | | | |
| 1 | 98 | 10.39 | 10.38 | 33.675 | 25.853 | 215.8 | 0.265 | 3.95 | 62.5 | 16.9 | 1.42 | 18.1 | 0.02 | 0.05 | 0.09 | 99 | | | | |
| 1 | 100 ISL | 10.33 | 10.33 | 33.680 | 25.866 | 214.7 | 0.270 | 3.94 | 62.3 | 17.1 | 1.43 | 18.3 | 0.02 | 0.05 | 0.09 | 101 | | | | |
| 1 | 118 | 10.11 | 10.10 | 33.740 | 25.952 | 206.9 | 0.308 | 3.83 | 60.2 | 19.8 | 1.50 | 20.0 | 0.01 | 0.03 | 0.06 | 119 | | | | |
| 1 | 125 ISL | 9.99 | 9.98 | 33.795 | 26.015 | 200.9 | 0.322 | 3.57 | 56.0 | 21.8 | 1.60 | 21.3 | 0.01 | 0.03 | 0.06 | 126 | | | | |
| 1 | 141 | 9.73 | 9.71 | 33.926 | 26.161 | 187.4 | 0.353 | 2.92 | 45.6 | 26.6 | 1.83 | 24.2 | 0.01 | 0.02 | 0.06 | 142 | | | | |
| 1 | 150 ISL | 9.63 | 9.61 | 33.966 | 26.209 | 183.0 | 0.370 | 2.77 | 43.2 | 28.2 | 1.89 | 25.1 | 0.01 | 0.02 | 0.06 | 151 | | | | |
| 1 | 171 | 9.49 | 9.47 | 34.031 | 26.284 | 176.4 | 0.407 | 2.56 | 39.8 | 30.8 | 1.99 | 26.5 | 0.00 | 0.01 | 0.06 | 172 | | | | |
| 1 | 200 ISL | 9.47 | 9.45 | 34.132 | 26.366 | 169.2 | 0.457</ | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 40.8 N | 117 52.6 W | 03/03/87 | 1052 GMT | 579 M | 030 | 12 KT | | | 1021.0 MB | 14.2 C | 12.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY PCT | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.11 | 15.11 | 33.382 | 24.701 | 323.2 | 0.000 | 5.81 | 101.3 | 1.8 | 0.35 | 0.7 | 0.00 | 0.18 | 0.05 | 0 |
| 10 ISL | 15.10 | 15.10 | | 33.381 | 24.703 | 323.3 | 0.032 | 5.93 | 103.4 | 1.7 | 0.37 | 0.6 | 0.00 | 0.19 | 0.05 | 10 |
| 1 | 12 | 15.10 | 15.10 | 33.381 | 24.703 | 323.4 | 0.039 | 5.96 | 103.9 | 1.7 | 0.37 | 0.6 | 0.00 | 0.19 | 0.05 | 12 |
| 1 | 20 | 15.05 | 15.05 | 33.371 | 24.707 | 323.3 | 0.065 | 5.85 | 101.9 | 1.6 | 0.36 | 0.7 | 0.00 | 0.21 | 0.06 | 20 |
| 1 | 30 | 14.67 | 14.67 | 33.357 | 24.778 | 316.8 | 0.097 | 5.88 | 101.6 | 1.7 | 0.38 | 0.7 | 0.00 | 0.37 | 0.13 | 30 |
| 1 | 42 | 14.43 | 14.42 | 33.351 | 24.825 | 312.7 | 0.134 | 5.90 | 101.5 | 1.7 | 0.39 | 0.8 | 0.01 | 0.42 | 0.18 | 42 |
| 1 | 49 | 14.43 | 14.42 | 33.349 | 24.823 | 313.0 | 0.156 | 5.89 | 101.3 | 1.8 | 0.39 | 0.9 | 0.01 | 0.39 | 0.17 | 49 |
| 50 ISL | 14.35 | 14.34 | | 33.347 | 24.839 | 311.6 | 0.159 | 5.87 | 100.8 | 1.9 | 0.40 | 1.1 | 0.02 | 0.39 | 0.18 | 50 |
| 1 | 60 | 13.36 | 13.35 | 33.346 | 25.042 | 292.4 | 0.190 | 5.54 | 93.2 | 3.6 | 0.57 | 3.4 | 0.08 | 0.40 | 0.24 | 60 |
| 1 | 71 | 12.82 | 12.81 | 33.382 | 25.177 | 279.8 | 0.221 | 5.25 | 87.4 | 5.4 | 0.72 | 5.8 | 0.05 | 0.29 | 0.25 | 72 |
| 75 ISL | 12.57 | 12.56 | | 33.411 | 25.249 | 273.1 | 0.232 | 5.12 | 84.8 | 6.1 | 0.78 | 6.9 | 0.04 | 0.24 | 0.23 | 76 |
| 1 | 84 | 11.95 | 11.94 | 33.476 | 25.417 | 257.2 | 0.256 | 4.82 | 78.8 | 8.2 | 0.93 | 9.6 | 0.03 | 0.15 | 0.16 | 85 |
| 1 | 99 | 10.88 | 10.87 | 33.517 | 25.645 | 235.8 | 0.293 | 4.42 | 70.6 | 13.2 | 1.23 | 15.1 | 0.02 | 0.09 | 0.10 | 100 |
| 100 ISL | 10.84 | 10.83 | | 33.523 | 25.656 | 234.7 | 0.295 | 4.40 | 70.2 | 13.4 | 1.24 | 15.3 | 0.02 | 0.09 | 0.10 | 101 |
| 1 | 120 | 10.30 | 10.29 | 33.648 | 25.848 | 216.8 | 0.341 | 3.94 | 62.2 | 17.5 | 1.45 | 18.9 | 0.01 | 0.03 | 0.08 | 121 |
| 125 ISL | 10.15 | 10.14 | | 33.680 | 25.899 | 212.0 | 0.351 | 3.83 | 60.3 | 18.7 | 1.50 | 19.7 | 0.01 | 0.02 | 0.07 | 126 |
| 1 | 144 | 9.61 | 9.59 | 33.798 | 26.081 | 195.0 | 0.390 | 3.42 | 53.2 | 23.3 | 1.67 | 22.7 | 0.01 | 0.00 | 0.04 | 145 |
| 150 ISL | 9.47 | 9.45 | | 33.833 | 26.132 | 190.3 | 0.401 | 3.30 | 51.2 | 24.8 | 1.73 | 23.6 | 0.01 | 0.00 | 0.04 | 151 |
| 1 | 174 | 9.02 | 9.00 | 33.948 | 26.294 | 175.2 | 0.445 | 2.89 | 44.4 | 30.1 | 1.94 | 26.4 | 0.01 | 0.00 | 0.05 | 175 |
| 200 ISL | 8.75 | 8.73 | | 34.008 | 26.384 | 167.1 | 0.490 | 2.62 | 40.0 | 33.9 | 2.05 | 28.1 | 0.00 | 0.00 | 0.04 | 202 |
| 1 | 203 | 8.73 | 8.71 | 34.012 | 26.391 | 166.6 | 0.495 | 2.60 | 39.7 | 34.2 | 2.06 | 28.2 | 0.00 | 0.00 | 0.04 | 205 |
| 1 | 232 | 8.52 | 8.50 | 34.053 | 26.456 | 160.9 | 0.542 | 2.39 | 36.3 | 36.8 | 2.14 | 29.3 | 0.01 | | | 234 |
| 250 ISL | 8.35 | 8.32 | | 34.074 | 26.498 | 157.1 | 0.571 | 2.26 | 34.2 | 39.0 | 2.20 | 30.2 | 0.01 | | | 252 |
| 1 | 271 | 8.13 | 8.10 | 34.099 | 26.551 | 152.4 | 0.603 | 2.07 | 31.2 | 42.1 | 2.28 | 31.3 | 0.01 | | | 273 |
| 300 ISL | 7.79 | 7.76 | | 34.144 | 26.637 | 144.6 | 0.647 | 1.65 | 24.7 | 47.9 | 2.45 | 33.2 | 0.00 | | | 302 |
| 1 | 327 | 7.48 | 7.45 | 34.186 | 26.715 | 137.4 | 0.685 | 1.24 | 18.4 | 53.5 | 2.62 | 34.9 | 0.00 | | | 330 |
| 1 | 384 | 7.01 | 6.97 | 34.253 | 26.834 | 126.8 | 0.760 | 0.68 | 10.0 | 62.5 | 2.85 | 37.6 | 0.00 | | | 387 |
| 400 ISL | 6.88 | 6.84 | | 34.263 | 26.860 | 124.5 | 0.780 | 0.60 | 8.8 | 64.7 | 2.89 | 38.1 | 0.00 | | | 403 |
| 1 | 450 | 6.55 | 6.51 | 34.285 | 26.922 | 119.1 | 0.841 | 0.46 | 6.7 | 70.2 | 2.98 | 39.3 | 0.00 | | | 454 |
| 500 ISL | 6.38 | 6.33 | | 34.300 | 26.957 | 116.4 | 0.900 | 0.39 | 5.6 | 73.4 | 3.04 | 40.0 | 0.00 | | | 504 |
| 1 | 520 | 6.31 | 6.26 | 34.306 | 26.971 | 115.3 | 0.923 | 0.36 | 5.2 | 74.7 | 3.06 | 40.3 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 40

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|-------|-------|
| 32 31.0 N | 118 12.7 W | 03/03/87 | 1527 GMT | 1667 M | 040 | 07 KT | 050 | 02 04 | 1 | 1021.0 MB | 15.0 C | 13.8 C | 6/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY PCT | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 14.96 | 14.96 | | 33.397 | 24.746 | 319.0 | 0.000 | 5.85 | 101.7 | 1.7 | 0.37 | 0.5 | 0.00 | 0.20 | 0.05 | 0 |
| 1 | 14.96 | 14.96 | | 33.397 | 24.746 | 319.0 | 0.003 | 5.85 | 101.7 | 1.7 | 0.37 | 0.5 | 0.00 | 0.20 | 0.05 | 1 |
| 1 | 10 | 14.92 | 14.92 | 33.389 | 24.748 | 319.0 | 0.032 | 5.96 | 103.6 | 1.7 | 0.36 | 0.5 | 0.00 | 0.21 | 0.05 | 10 |
| 1 | 20 | 14.81 | 14.81 | 33.379 | 24.765 | 317.8 | 0.064 | 5.89 | 102.1 | 1.6 | 0.36 | 0.4 | 0.00 | 0.24 | 0.06 | 20 |
| 1 | 30 | 14.46 | 14.46 | 33.387 | 24.846 | 310.3 | 0.095 | 5.92 | 101.9 | 1.5 | 0.37 | 0.4 | 0.00 | 0.24 | 0.08 | 30 |
| 1 | 41 | 14.32 | 14.31 | 33.393 | 24.880 | 307.3 | 0.129 | 6.06 | 104.0 | 0.9 | 0.34 | 0.4 | 0.00 | 0.63 | 0.20 | 41 |
| 50 ISL | 14.21 | 14.20 | | 33.397 | 24.907 | 305.1 | 0.157 | 6.01 | 102.9 | 0.7 | 0.35 | 0.5 | 0.00 | 1.14 | 0.55 | 50 |
| 1 | 51 | 14.20 | 14.19 | 33.398 | 24.910 | 304.8 | 0.160 | 6.00 | 102.7 | 0.7 | 0.35 | 0.5 | 0.00 | 1.19 | 0.59 | 51 |
| 1 | 60 | 14.16 | 14.15 | 33.402 | 24.921 | 304.0 | 0.187 | 5.90 | 100.9 | 0.9 | 0.37 | 0.5 | 0.01 | 1.22 | 0.71 | 60 |
| 1 | 69 | 12.92 | 12.91 | 33.335 | 25.121 | 285.1 | 0.214 | 5.38 | 89.7 | 4.8 | 0.70 | 5.2 | 0.13 | 0.50 | 0.46 | 70 |
| 75 ISL | 12.35 | 12.34 | | 33.361 | 25.252 | 272.7 | 0.230 | 5.17 | 85.2 | 6.7 | 0.82 | 7.4 | 0.10 | 0.28 | 0.31 | 76 |
| 1 | 83 | 11.83 | 11.82 | 33.427 | 25.402 | 258.6 | 0.252 | 4.97 | 81.0 | 8.6 | 0.93 | 9.5 | 0.02 | 0.15 | 0.16 | 84 |
| 1 | 98 | 11.31 | 11.30 | 33.524 | 25.573 | 242.6 | 0.289 | 4.58 | 73.8 | 11.5 | 1.09 | 12.6 | 0.02 | 0.07 | 0.09 | 99 |
| 100 ISL | 11.23 | 11.22 | | 33.535 | 25.596 | 240.5 | 0.294 | 4.54 | 73.1 | 11.9 | 1.11 | 13.0 | 0.02 | 0.06 | 0.08 | 101 |
| 1 | 118 | 10.56 | 10.55 | 33.622 | 25.783 | 223.0 | 0.336 | 4.20 | 66.7 | 15.4 | 1.30 | 16.5 | 0.01 | 0.03 | 0.05 | 119 |
| 125 ISL | 10.34 | 10.33 | | 33.653 | 25.845 | 217.2 | 0.351 | 4.06 | 64.1 | 16.8 | 1.37 | 17.7 | 0.01 | 0.02 | 0.04 | 126 |
| 1 | 143 | 9.84 | 9.82 | 33.738 | 25.996 | 203.1 | 0.389 | 3.69 | 57.7 | 20.6 | 1.55 | 20.6 | 0.01 | 0.01 | 0.03 | 144 |
| 150 ISL | 9.65 | 9.63 | | 33.783 | 26.063 | 196.8 | 0.403 | 3.54 | 55.1 | 22.5 | 1.62 | 21.7 | 0.01 | 0.01 | 0.03 | 151 |
| 1 | 172 | 9.10 | 9.08 | 33.911 | 26.253 | 179.2 | 0.444 | 3.15 | 48.5 | 28.2 | 1.81 | 24.6 | 0.01 | 0.00 | 0.02 | 173 |
| 200 ISL | 8.54 | 8.52 | | 33.972 | 26.388 | 166.6 | 0.493 | 3.02 | 45.9 | 32.6 | 1.91 | 26.5 | 0.01 | 0.00 | 0.02 | 202 |
| 1 | 201 | 8.52 | 8.50 | 33.973 | 26.392 | 166.3 | 0.494 | 3.02 | 45.9 | 32.7 | 1.91 | 26.5 | 0.01 | 0.00 | 0.02 | 203 |
| 1 | 230 | 7.98 | 7.96 | 34.021 | 26.511 | 155.3 | 0.541 | 2.77 | 41.6 | 38.5 | 2.05 | 28.6 | 0.01 | | | 232 |
| 250 ISL | 7.79 | 7.77 | | 34.048 | 26.561 | 150.9 | 0.572 | 2.46 | 36.8 | 41.9 | 2.16 | 30.3 | 0.00 | | | 252 |
| 1 | 268 | 7.68 | 7.65 | 34.074 | 26.597 | 147.7 | 0.599 | 2.14 | 31.9 | 44.7 | 2.27 | 31.7 | 0.00 | | | 270 |
| 300 ISL | 7.55 | 7.52 | | 34.144 | 26.672 | 141.2 | 0.645 | 1.55 | 23.0 | 50.0 | 2.48 | 33.7 | 0.00 | | | 302 |
| 1 | 324 | 7.47 | 7.44 | 34.193 | 26.722 | 136.7 | 0.678 | 1.16 | 17.2 | 53.7 | 2.62 | 35.0 | 0.00 | | | 327 |
| 1 | 382 | 7.05 | 7.01 | 34.242 | 26.820 | 128.1 | 0.755 | 0.75 | 11.0 | 61.3 | 2.77 | 37.3 | 0.00 | | | 385 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | I | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 20.9 N | 118 33.3 W | 03/03/87 | 1940 GMT | 1350 M | 310 | 05 KT | 300 02 06 | 1 | 1022.5 MB | 17.0 C | 14.1 C | 2/8 | SC | J | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 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 | D.BAR | |
| 1 | 0 | 14.93 | 14.93 | 33.392 | 24.748 | 318.7 | 0.000 | 6.00 | 104.3 | 1.0 | 0.34 | 0.1 | 0.00 | 0.30 | 0.06 | 0 |
| 1 | 10 | 14.48 | 14.48 | 33.387 | 24.841 | 310.2 | 0.031 | 6.05 | 104.2 | 1.0 | 0.35 | 0.1 | 0.00 | 0.33 | 0.09 | 10 |
| 1 | 20 | 14.40 | 14.40 | 33.384 | 24.856 | 309.1 | 0.062 | 6.02 | 103.5 | 1.0 | 0.35 | 0.2 | 0.00 | 0.36 | 0.09 | 20 |
| 30 | ISL | 14.39 | 14.39 | 33.386 | 24.860 | 309.0 | 0.093 | 6.01 | 103.3 | 0.9 | 0.34 | 0.2 | 0.00 | 0.36 | 0.11 | 30 |
| 1 | 31 | 14.39 | 14.39 | 33.386 | 24.860 | 309.0 | 0.096 | 6.01 | 103.3 | 0.9 | 0.34 | 0.2 | 0.00 | 0.36 | 0.11 | 31 |
| 1 | 41 | 14.30 | 14.29 | 33.387 | 24.880 | 307.4 | 0.127 | 6.02 | 103.3 | 0.9 | 0.36 | 0.2 | 0.01 | 0.60 | 0.20 | 41 |
| 50 | ISL | 14.16 | 14.15 | 33.399 | 24.919 | 303.9 | 0.155 | 5.85 | 100.1 | 1.6 | 0.40 | 0.3 | 0.02 | 1.36 | 0.54 | 50 |
| 1 | 51 | 14.14 | 14.13 | 33.400 | 24.924 | 303.5 | 0.158 | 5.83 | 99.7 | 1.7 | 0.41 | 0.3 | 0.02 | 1.44 | 0.58 | 51 |
| 1 | 61 | 14.00 | 13.99 | 33.398 | 24.952 | 301.1 | 0.188 | 5.76 | 98.2 | 2.0 | 0.45 | 0.5 | 0.04 | 1.42 | 0.77 | 61 |
| 1 | 71 | 13.75 | 13.74 | 33.406 | 25.010 | 295.9 | 0.218 | 5.54 | 94.0 | 3.2 | 0.56 | 1.5 | 0.09 | 1.22 | 0.97 | 72 |
| 75 | ISL | 13.27 | 13.26 | 33.402 | 25.104 | 286.9 | 0.230 | 5.35 | 89.9 | 4.7 | 0.68 | 3.5 | 0.08 | 0.97 | 0.81 | 76 |
| 1 | 85 | 12.00 | 11.99 | 33.410 | 25.357 | 262.9 | 0.257 | 4.86 | 79.5 | 8.7 | 0.99 | 9.1 | 0.07 | 0.35 | 0.31 | 86 |
| 1 | 100 | 11.43 | 11.42 | 33.468 | 25.508 | 248.9 | 0.295 | 4.58 | 74.0 | 11.0 | 1.12 | 12.0 | 0.04 | 0.22 | 0.21 | 101 |
| 1 | 119 | 10.64 | 10.63 | 33.577 | 25.734 | 227.7 | 0.341 | 4.12 | 65.5 | 15.2 | 1.35 | 13.2 | 0.02 | 0.08 | 0.12 | 120 |
| 125 | ISL | 10.46 | 10.45 | 33.613 | 25.793 | 222.1 | 0.354 | 3.98 | 63.0 | 16.5 | 1.41 | 14.2 | 0.02 | 0.06 | 0.10 | 126 |
| 1 | 144 | 9.98 | 9.96 | 33.727 | 25.964 | 206.2 | 0.395 | 3.57 | 56.0 | 20.8 | 1.59 | 18.0 | 0.01 | 0.02 | 0.06 | 145 |
| 150 | ISL | 9.84 | 9.82 | 33.762 | 26.015 | 201.5 | 0.407 | 3.45 | 53.9 | 22.2 | 1.64 | 19.0 | 0.01 | 0.02 | 0.06 | 151 |
| 1 | 174 | 9.33 | 9.31 | 33.885 | 26.196 | 184.7 | 0.453 | 3.03 | 46.9 | 27.5 | 1.84 | 22.1 | 0.01 | 0.00 | 0.04 | 175 |
| 200 | ISL | 8.90 | 8.88 | 33.976 | 26.336 | 171.8 | 0.500 | 2.72 | 41.7 | 31.9 | 2.00 | 24.0 | 0.01 | 0.01 | 0.07 | 202 |
| 1 | 203 | 8.86 | 8.84 | 33.984 | 26.348 | 170.6 | 0.505 | 2.69 | 41.2 | 32.3 | 2.01 | 24.2 | 0.01 | 0.01 | 0.07 | 205 |
| 1 | 230 | 8.59 | 8.57 | 34.043 | 26.437 | 162.7 | 0.550 | 2.44 | 37.1 | 35.6 | 2.11 | 25.4 | 0.00 | | | 232 |
| 250 | ISL | 8.27 | 8.24 | 34.074 | 26.510 | 155.9 | 0.582 | 2.21 | 33.4 | 39.7 | 2.21 | 27.0 | 0.00 | | | 252 |
| 1 | 271 | 7.93 | 7.90 | 34.104 | 26.585 | 149.1 | 0.614 | 1.93 | 28.9 | 44.4 | 2.33 | 28.9 | 0.00 | | | 273 |
| 300 | ISL | 7.72 | 7.69 | 34.163 | 26.662 | 142.1 | 0.656 | 1.47 | 21.9 | 49.5 | 2.51 | 30.9 | 0.01 | | | 302 |
| 1 | 324 | 7.59 | 7.56 | 34.207 | 26.716 | 137.4 | 0.690 | 1.11 | 16.5 | 53.4 | 2.65 | 32.5 | 0.01 | | | 327 |
| 1 | 383 | 6.92 | 6.88 | 34.243 | 26.838 | 126.3 | 0.767 | 0.70 | 10.3 | 63.6 | 2.86 | 37.5 | 0.00 | | | 386 |
| 400 | ISL | 6.81 | 6.77 | 34.254 | 26.862 | 124.2 | 0.789 | 0.62 | 9.1 | 65.6 | 2.90 | 38.2 | 0.00 | | | 403 |
| 1 | 448 | 6.55 | 6.51 | 34.285 | 26.922 | 119.1 | 0.847 | 0.46 | 6.7 | 70.5 | 2.98 | 39.6 | 0.00 | | | 452 |
| 500 | ISL | 6.20 | 6.16 | 34.313 | 26.990 | 113.0 | 0.907 | 0.35 | 5.0 | 76.4 | 3.04 | 41.1 | 0.00 | | | 504 |
| 1 | 518 | 6.08 | 6.03 | 34.324 | 27.014 | 110.9 | 0.927 | 0.31 | 4.5 | 78.5 | 3.06 | 41.6 | 0.00 | | | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | I | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 10.8 N | 118 53.6 W | 03/03/87 | 2349 GMT | 1502 M | 290 | 04 KT | 280 01 09 | 1 | 1020.1 MB | 16.5 C | 13.8 C | 2/8 | ST | J | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 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 | D.BAR | |
| 0 | ISL | 16.25 | 16.25 | 33.473 | 24.517 | 340.7 | 0.000 | 5.77 | 103.0 | 2.0 | 0.34 | 0.7 | 0.00 | 0.09 | 0.01 | 0 |
| 1 | 1 | 16.25 | 16.25 | 33.473 | 24.517 | 340.7 | 0.003 | 5.77 | 103.0 | 2.0 | 0.34 | 0.7 | 0.00 | 0.09 | 0.01 | 1 |
| 10 | ISL | 15.54 | 15.54 | 33.468 | 24.674 | 326.2 | 0.033 | 5.86 | 103.1 | 1.7 | 0.34 | 0.6 | 0.00 | 0.11 | 0.02 | 10 |
| 1 | 11 | 15.44 | 15.44 | 33.468 | 24.696 | 324.1 | 0.037 | 5.87 | 103.1 | 1.7 | 0.34 | 0.6 | 0.00 | 0.11 | 0.02 | 11 |
| 20 | ISL | 15.31 | 15.31 | 33.457 | 24.716 | 322.4 | 0.066 | 5.85 | 102.5 | 1.8 | 0.33 | 0.6 | 0.00 | 0.15 | 0.03 | 20 |
| 1 | 21 | 15.31 | 15.31 | 33.458 | 24.717 | 322.4 | 0.069 | 5.84 | 102.3 | 1.8 | 0.33 | 0.6 | 0.00 | 0.16 | 0.03 | 21 |
| 30 | ISL | 14.93 | 14.93 | 33.422 | 24.772 | 317.4 | 0.098 | 5.85 | 101.7 | 1.9 | 0.35 | 0.5 | 0.01 | 0.33 | 0.13 | 30 |
| 1 | 32 | 14.82 | 14.82 | 33.414 | 24.790 | 315.7 | 0.104 | 5.85 | 101.4 | 1.9 | 0.36 | 0.5 | 0.01 | 0.38 | 0.16 | 32 |
| 1 | 42 | 14.26 | 14.25 | 33.402 | 24.900 | 305.5 | 0.135 | 6.12 | 104.9 | 0.7 | 0.35 | 0.5 | 0.00 | 0.77 | 0.30 | 42 |
| 50 | ISL | 14.21 | 14.20 | 33.404 | 24.912 | 304.6 | 0.160 | 6.07 | 104.0 | 0.8 | 0.35 | 0.6 | 0.00 | 0.90 | 0.40 | 50 |
| 1 | 51 | 14.20 | 14.19 | 33.404 | 24.914 | 304.4 | 0.163 | 6.06 | 103.8 | 0.8 | 0.35 | 0.6 | 0.00 | 0.92 | 0.41 | 51 |
| 1 | 62 | 14.16 | 14.15 | 33.403 | 24.922 | 303.9 | 0.196 | 5.99 | 102.5 | 1.2 | 0.36 | 0.5 | 0.01 | 1.42 | 0.68 | 62 |
| 1 | 71 | 13.19 | 13.18 | 33.412 | 25.127 | 284.6 | 0.223 | 5.44 | 91.2 | 4.2 | 0.62 | 3.3 | 0.08 | 1.57 | 0.92 | 72 |
| 75 | ISL | 12.87 | 12.86 | 33.434 | 25.208 | 277.0 | 0.234 | 5.16 | 86.0 | 5.7 | 0.75 | 5.2 | 0.07 | 1.25 | 0.81 | 76 |
| 1 | 85 | 12.13 | 12.12 | 33.495 | 25.398 | 259.0 | 0.261 | 4.56 | 74.8 | 9.6 | 1.03 | 10.0 | 0.05 | 0.30 | 0.41 | 86 |
| 1 | 100 | 10.86 | 10.85 | 33.544 | 25.669 | 233.5 | 0.298 | 4.26 | 68.0 | 14.3 | 1.29 | 15.3 | 0.02 | 0.11 | 0.19 | 101 |
| 1 | 119 | 10.33 | 10.32 | 33.687 | 25.873 | 214.4 | 0.340 | 3.79 | 59.9 | 18.7 | 1.49 | 18.4 | 0.01 | 0.03 | 0.08 | 120 |
| 125 | ISL | 10.20 | 10.19 | 33.714 | 25.917 | 210.3 | 0.353 | 3.68 | 58.0 | 19.7 | 1.54 | 19.2 | 0.01 | 0.03 | 0.07 | 126 |
| 1 | 145 | 9.83 | 9.81 | 33.788 | 26.037 | 199.3 | 0.394 | 3.37 | 52.7 | 22.9 | 1.69 | 21.6 | 0.01 | 0.02 | 0.05 | 146 |
| 150 | ISL | 9.73 | 9.71 | 33.812 | 26.073 | 196.0 | 0.404 | 3.29 | 51.3 | 23.9 | 1.73 | 22.2 | 0.01 | 0.02 | 0.05 | 151 |
| 1 | 173 | 9.30 | 9.28 | 33.921 | 26.229 | 181.6 | 0.447 | 2.95 | 45.6 | 28.6 | 1.88 | 24.7 | 0.00 | 0.00 | 0.04 | 174 |
| 200 | ISL | 8.89 | 8.87 | 34.015 | 26.368 | 168.8 | 0.494 | 2.57 | 39.4 | 33.4 | 2.06 | 27.0 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 203 | 8.86 | 8.84 | 34.023 | 26.379 | 167.8 | 0.499 | 2.53 | 38.7 | 33.8 | 2.08 | 27.2 | 0.00 | 0.00 | 0.03 | 205 |
| 1 | 231 | 8.71 | 8.69 | 34.083 | 26.450 | 161.5 | 0.546 | 2.27 | 34.7 | 36.6 | 2.17 | 28.5 | 0.00 | | | 233 |
| 250 | ISL | 8.51 | 8.48 | 34.111 | 26.503 | 156.8 | 0.576 | 2.05 | 31.2 | 39.4 | 2.26 | 29.6 | 0.00 | | | 252 |
| 1 | 271 | 8.26 | 8.23 | 34.139 | 26.563 | 151.3 | 0.608 | 1.78 | 26.9 | 43.0 | 2.38 | 31.0 | 0.00 | | | 273 |
| 300 | ISL | 7.91 | 7.88 | 34.187 | 26.653 | 143.1 | 0.651 | 1.36 | 20.4 | 48.8 | 2.55 | 32.9 | 0.00 | | | 302 |
| 1 | 323 | 7.65 | 7.62 | 34.222 | 26.719 | 137. | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 0.5 N | 119 14.0 W | 04/03/87 | 0313 GMT | 1487 M | 310 | 04 KT | | | 1020.1 MB | 14.6 C | 12.2 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.56 | 15.56 | 33.390 | 24.609 | 332.0 | 0.000 | 5.96 | 104.9 | 1.5 | 0.38 | 0.4 | 0.00 | 0.19 | 0.04 | 0 |
| 1 | 9 | 14.51 | 14.51 | 33.379 | 24.828 | 311.4 | 0.029 | 6.06 | 104.4 | 1.6 | 0.37 | 0.4 | 0.00 | 0.25 | 0.05 | 9 |
| 1 | 10 ISL | 14.50 | 14.50 | 33.378 | 24.830 | 311.2 | 0.032 | 6.06 | 104.4 | 1.6 | 0.37 | 0.4 | 0.00 | 0.25 | 0.05 | 10 |
| 1 | 19 | 14.37 | 14.37 | 33.372 | 24.853 | 309.3 | 0.060 | 6.01 | 103.3 | 1.7 | 0.36 | 0.1 | 0.00 | 0.20 | 0.07 | 19 |
| 1 | 20 ISL | 14.37 | 14.37 | 33.372 | 24.853 | 309.4 | 0.063 | 6.00 | 103.1 | 1.7 | 0.36 | 0.1 | 0.00 | 0.20 | 0.07 | 20 |
| 1 | 29 | 14.34 | 14.34 | 33.375 | 24.862 | 308.8 | 0.091 | 5.96 | 102.3 | 1.8 | 0.37 | 0.1 | 0.00 | 0.22 | 0.08 | 29 |
| 1 | 30 ISL | 14.34 | 14.34 | 33.375 | 24.862 | 308.8 | 0.094 | 5.97 | 102.5 | 1.8 | 0.37 | 0.1 | 0.00 | 0.23 | 0.09 | 30 |
| 1 | 38 | 14.29 | 14.28 | 33.377 | 24.874 | 307.8 | 0.119 | 6.02 | 103.3 | 1.5 | 0.38 | 0.1 | 0.00 | 0.34 | 0.15 | 38 |
| 1 | 49 | 14.04 | 14.03 | 33.400 | 24.945 | 301.5 | 0.152 | 5.81 | 99.2 | 2.0 | 0.43 | 0.4 | 0.03 | 1.42 | 0.73 | 49 |
| 1 | 50 ISL | 14.01 | 14.00 | 33.402 | 24.952 | 300.7 | 0.155 | 5.78 | 98.6 | 2.1 | 0.44 | 0.5 | 0.04 | 1.43 | 0.74 | 50 |
| 1 | 59 | 13.62 | 13.61 | 33.420 | 25.047 | 292.0 | 0.182 | 5.47 | 92.6 | 3.5 | 0.56 | 1.9 | 0.11 | 1.49 | 0.83 | 59 |
| 1 | 69 | 12.72 | 12.71 | 33.452 | 25.251 | 272.7 | 0.210 | 4.93 | 81.9 | 7.2 | 0.87 | 6.3 | 0.15 | 0.51 | 0.41 | 70 |
| 1 | 75 ISL | 12.24 | 12.23 | 33.493 | 25.375 | 261.0 | 0.226 | 4.65 | 76.5 | 9.2 | 1.01 | 8.8 | 0.11 | 0.27 | 0.27 | 76 |
| 1 | 82 | 11.71 | 11.70 | 33.543 | 25.514 | 247.9 | 0.244 | 4.37 | 71.1 | 11.5 | 1.15 | 11.6 | 0.04 | 0.16 | 0.18 | 83 |
| 1 | 96 | 10.70 | 10.69 | 33.604 | 25.744 | 226.2 | 0.277 | | | | | | | | | |
| 1 | 100 ISL | 10.53 | 10.52 | 33.628 | 25.792 | 221.7 | 0.286 | 4.07 | 64.6 | 16.7 | 1.45 | 16.8 | 0.02 | 0.07 | 0.12 | 101 |
| 1 | 115 | 10.06 | 10.05 | 33.723 | 25.947 | 207.2 | 0.318 | 3.94 | 61.9 | 19.5 | 1.56 | 19.1 | 0.01 | 0.02 | 0.06 | 116 |
| 1 | 125 ISL | 9.74 | 9.73 | 33.786 | 26.050 | 197.6 | 0.338 | 3.69 | 57.6 | 22.1 | 1.66 | 21.0 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 140 | 9.32 | 9.30 | 33.868 | 26.183 | 185.2 | 0.367 | 3.34 | 51.6 | 25.8 | 1.79 | 23.5 | 0.01 | 0.00 | 0.04 | 141 |
| 1 | 150 ISL | 9.14 | 9.12 | 33.897 | 26.235 | 180.4 | 0.385 | 3.24 | 49.9 | 27.3 | 1.84 | 24.3 | 0.01 | 0.00 | 0.03 | 151 |
| 1 | 170 | 8.87 | 8.85 | 33.935 | 26.308 | 173.8 | 0.421 | 3.14 | 48.1 | 29.7 | 1.92 | 25.3 | 0.01 | 0.00 | 0.02 | 171 |
| 1 | 200 | 8.45 | 8.43 | 33.998 | 26.423 | 163.4 | 0.471 | 2.93 | 44.4 | 33.8 | 2.02 | 27.2 | 0.01 | 0.01 | 0.03 | 202 |
| 1 | 229 | 8.28 | 8.26 | 34.023 | 26.469 | 159.5 | 0.518 | 2.83 | 42.8 | 36.0 | 2.07 | 27.9 | 0.01 | | | 231 |
| 1 | 250 ISL | 7.96 | 7.93 | 34.058 | 26.544 | 152.6 | 0.551 | 2.44 | 36.6 | 40.8 | 2.23 | 30.0 | 0.01 | | | 252 |
| 1 | 268 | 7.65 | 7.62 | 34.088 | 26.613 | 146.2 | 0.578 | 2.06 | 30.7 | 45.5 | 2.38 | 32.1 | 0.01 | | | 270 |
| 1 | 300 ISL | 7.24 | 7.21 | 34.100 | 26.681 | 140.0 | 0.624 | 1.73 | 25.5 | 51.0 | 2.52 | 34.2 | 0.00 | | | 302 |
| 1 | 324 | 7.00 | 6.97 | 34.103 | 26.716 | 136.9 | 0.657 | 1.56 | 22.9 | 54.6 | 2.59 | 35.3 | 0.00 | | | 327 |
| 1 | 382 | 6.60 | 6.57 | 34.156 | 26.813 | 128.4 | 0.734 | 1.00 | 14.5 | 64.5 | 2.81 | 38.2 | 0.00 | | | 385 |
| 1 | 400 ISL | 6.44 | 6.40 | 34.170 | 26.845 | 125.5 | 0.757 | 0.88 | 12.7 | 67.4 | 2.87 | 39.0 | 0.00 | | | 403 |
| 1 | 447 | 6.07 | 6.03 | 34.211 | 26.925 | 118.2 | 0.814 | 0.62 | 8.9 | 74.1 | 3.00 | 40.5 | 0.00 | | | 451 |
| 1 | 500 ISL | 5.91 | 5.87 | 34.280 | 27.000 | 111.7 | 0.875 | 0.40 | 5.7 | 78.7 | 3.10 | 41.2 | 0.00 | | | 504 |
| 1 | 517 | 5.86 | 5.82 | 34.302 | 27.024 | 109.6 | 0.894 | 0.33 | 4.7 | 80.2 | 3.13 | 41.4 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 31 50.8 N | 119 34.2 W | 04/03/87 | 0646 GMT | 1859 M | 090 | 09 KT | | | 1019.8 MB | 14.5 C | 12.8 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.58 | 15.58 | 33.473 | 24.668 | 326.3 | 0.000 | 6.15 | 108.3 | 2.4 | 0.33 | 0.4 | 0.00 | 0.12 | 0.02 | 0 |
| 1 | 9 | 15.44 | 15.44 | 33.450 | 24.682 | 325.3 | 0.029 | 6.09 | 106.9 | 2.4 | 0.33 | 0.4 | 0.00 | 0.13 | 0.03 | 9 |
| 1 | 10 ISL | 15.43 | 15.43 | 33.452 | 24.686 | 325.0 | 0.033 | 6.07 | 106.6 | 2.4 | 0.33 | 0.4 | 0.00 | 0.13 | 0.03 | 10 |
| 1 | 19 | 15.34 | 15.34 | 33.471 | 24.720 | 322.0 | 0.062 | 5.92 | 103.8 | 2.4 | 0.33 | 0.4 | 0.00 | 0.13 | 0.03 | 19 |
| 1 | 20 ISL | 15.33 | 15.33 | 33.469 | 24.721 | 322.0 | 0.065 | 5.92 | 103.7 | 2.4 | 0.33 | 0.4 | 0.00 | 0.13 | 0.03 | 20 |
| 1 | 30 | 15.25 | 15.25 | 33.445 | 24.720 | 322.3 | 0.097 | 5.88 | 102.9 | 2.3 | 0.33 | 0.2 | 0.00 | 0.13 | 0.04 | 30 |
| 1 | 40 | 15.03 | 15.02 | 33.398 | 24.732 | 321.4 | 0.129 | 5.87 | 102.2 | 2.2 | 0.34 | 0.3 | 0.00 | 0.15 | 0.05 | 40 |
| 1 | 50 ISL | 14.96 | 14.95 | 33.401 | 24.750 | 320.1 | 0.161 | 5.89 | 102.4 | 2.3 | 0.34 | 0.4 | 0.00 | 0.21 | 0.07 | 50 |
| 1 | 51 | 14.95 | 14.94 | 33.403 | 24.754 | 319.7 | 0.165 | 5.89 | 102.4 | 2.3 | 0.34 | 0.4 | 0.00 | 0.22 | 0.07 | 51 |
| 1 | 60 | 14.82 | 14.81 | 33.408 | 24.786 | 316.9 | 0.193 | 5.89 | 102.1 | 2.3 | 0.35 | 0.4 | 0.00 | 0.25 | 0.08 | 60 |
| 1 | 70 | 14.75 | 14.74 | 33.404 | 24.798 | 316.0 | 0.225 | 5.82 | 100.8 | 2.6 | 0.38 | 0.5 | 0.02 | 0.58 | 0.28 | 71 |
| 1 | 75 ISL | 14.11 | 14.10 | 33.391 | 24.924 | 304.2 | 0.240 | 5.61 | 95.9 | 3.8 | 0.50 | 2.3 | 0.03 | 0.55 | 0.30 | 76 |
| 1 | 85 | 12.57 | 12.56 | 33.401 | 25.241 | 274.0 | 0.269 | 5.10 | 84.4 | 6.8 | 0.80 | 6.7 | 0.05 | 0.33 | 0.34 | 86 |
| 1 | 100 | 11.37 | 11.36 | 33.522 | 25.561 | 243.9 | 0.308 | 4.65 | 75.1 | 10.7 | 1.04 | 11.1 | 0.01 | 0.10 | 0.14 | 101 |
| 1 | 119 | 10.63 | 10.62 | 33.619 | 25.768 | 224.4 | 0.353 | 4.14 | 65.8 | 15.5 | 1.31 | 15.8 | 0.01 | 0.05 | 0.07 | 120 |
| 1 | 125 ISL | 10.46 | 10.45 | 33.647 | 25.820 | 219.6 | 0.366 | 4.02 | 63.7 | 16.7 | 1.37 | 16.8 | 0.01 | 0.04 | 0.06 | 126 |
| 1 | 144 | 9.95 | 9.93 | 33.739 | 25.979 | 204.8 | 0.406 | 3.70 | 58.0 | 20.6 | 1.53 | 19.7 | 0.00 | 0.01 | 0.03 | 145 |
| 1 | 150 ISL | 9.74 | 9.72 | 33.778 | 26.044 | 198.7 | 0.418 | 3.59 | 56.0 | 22.3 | 1.59 | 20.8 | 0.00 | 0.01 | 0.03 | 151 |
| 1 | 175 | 8.95 | 8.93 | 33.928 | 26.290 | 175.7 | 0.465 | 3.20 | 49.1 | 29.0 | 1.81 | 24.9 | 0.00 | 0.00 | 0.02 | 176 |
| 1 | 200 ISL | 8.61 | 8.59 | 33.985 | 26.388 | 166.7 | 0.508 | 3.04 | 46.3 | 32.7 | 1.90 | 26.4 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 204 | 8.57 | 8.55 | 33.990 | 26.398 | 165.8 | 0.515 | 3.01 | 45.8 | 33.3 | 1.91 | 26.6 | 0.00 | 0.00 | 0.03 | 206 |
| 1 | 233 | 8.15 | 8.13 | 34.057 | 26.515 | 155.1 | 0.561 | 2.49 | 37.5 | 39.6 | 2.12 | 29.7 | 0.01 | | | 235 |
| 1 | 250 ISL | 7.90 | 7.87 | 34.070 | 26.562 | 150.8 | 0.587 | 2.33 | 34.9 | 42.5 | 2.20 | 30.9 | 0.01 | | | 252 |
| 1 | 272 | 7.58 | 7.55 | 34.075 | 26.613 | 146.2 | 0.620 | 2.19 | 32.6 | 46.0 | 2.29 | 32.2 | 0.00 | | | 274 |
| 1 | 300 ISL | 7.23 | 7.20 | 34.083 | 26.669 | 141.2 | 0.660 | 1.93 | 28.5 | 50.6 | 2.39 | 34.1 | 0.00 | | | 302 |
| 1 | 326 | 6.97 | 6.94 | 34.096 | 26.715 | 137.1 | 0.696 | 1.67 | 24.5 | 54.8 | 2.48 | 35.8 | 0.00 | | | 329 |
| 1 | 385 | 6 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|-------|-------|
| 31 30.6 N | 120 14.8 W | 04/03/87 | 1215 GMT | 3733 M | 140 | 11 KT | | | 1016.9 MB | 15.1 C | 13.8 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.43 | 15.43 | 33.378 | 24.628 | 330.1 | 0.000 | 5.79 | 101.6 | 1.7 | 0.34 | 0.2 | 0.00 | 0.08 | 0.02 | 0.02 | 0 |
| 1 | 2 | 15.43 | 15.43 | 33.378 | 24.628 | 330.2 | 0.007 | 5.79 | 101.6 | 1.7 | 0.34 | 0.2 | 0.00 | 0.08 | 0.02 | 0.02 | 2 |
| 1 | 10 ISL | 15.45 | 15.45 | 33.377 | 24.624 | 330.9 | 0.033 | 5.86 | 102.9 | 1.7 | 0.34 | 0.1 | 0.00 | 0.08 | 0.03 | 0.03 | 10 |
| 1 | 12 | 15.45 | 15.45 | 33.377 | 24.624 | 331.0 | 0.040 | 5.87 | 103.1 | 1.7 | 0.34 | 0.1 | 0.00 | 0.08 | 0.03 | 0.03 | 12 |
| 1 | 20 ISL | 15.43 | 15.43 | 33.377 | 24.628 | 330.8 | 0.066 | 5.80 | 101.8 | 1.7 | 0.35 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 20 |
| 1 | 21 | 15.43 | 15.43 | 33.377 | 24.628 | 330.8 | 0.069 | 5.79 | 101.6 | 1.7 | 0.35 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 21 |
| 1 | 30 ISL | 15.39 | 15.39 | 33.375 | 24.636 | 330.4 | 0.099 | 5.80 | 101.7 | 1.8 | 0.34 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 30 |
| 1 | 33 | 15.38 | 15.37 | 33.374 | 24.637 | 330.3 | 0.109 | 5.80 | 101.7 | 1.8 | 0.34 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 33 |
| 1 | 42 | 15.33 | 15.32 | 33.367 | 24.643 | 330.0 | 0.139 | 5.82 | 101.9 | 1.7 | 0.34 | 0.1 | 0.00 | 0.08 | 0.03 | 0.03 | 42 |
| 1 | 50 ISL | 15.23 | 15.22 | 33.356 | 24.657 | 329.0 | 0.165 | 5.81 | 101.5 | 1.7 | 0.34 | 0.1 | 0.00 | 0.09 | 0.03 | 0.03 | 50 |
| 1 | 51 | 15.22 | 15.21 | 33.354 | 24.658 | 328.9 | 0.168 | 5.81 | 101.5 | 1.7 | 0.34 | 0.1 | 0.00 | 0.09 | 0.03 | 0.03 | 51 |
| 1 | 63 | 15.02 | 15.01 | 33.322 | 24.677 | 327.4 | 0.208 | 5.84 | 101.6 | 1.7 | 0.36 | 0.1 | 0.00 | 0.14 | 0.06 | 0.06 | 63 |
| 1 | 72 | 14.89 | 14.88 | 33.306 | 24.693 | 326.2 | 0.237 | 5.83 | 101.2 | 1.9 | 0.36 | 0.1 | 0.00 | 0.21 | 0.09 | 0.09 | 73 |
| 1 | 75 ISL | 14.82 | 14.81 | 33.305 | 24.707 | 324.9 | 0.247 | 5.82 | 100.8 | 2.0 | 0.37 | 0.1 | 0.03 | 0.24 | 0.12 | 0.12 | 76 |
| 1 | 86 | 14.40 | 14.39 | 33.317 | 24.806 | 315.7 | 0.282 | 5.72 | 98.3 | 2.5 | 0.44 | 0.1 | 0.13 | 0.32 | 0.21 | 0.21 | 87 |
| 1 | 100 ISL | 13.53 | 13.52 | 33.381 | 25.036 | 294.1 | 0.325 | 5.44 | 91.9 | 4.3 | 0.58 | 1.5 | 0.08 | 0.24 | 0.19 | 0.19 | 101 |
| 1 | 102 | 13.38 | 13.37 | 33.391 | 25.074 | 290.5 | 0.331 | 5.39 | 90.7 | 4.6 | 0.61 | 1.9 | 0.07 | 0.22 | 0.19 | 0.19 | 103 |
| 1 | 120 | 11.87 | 11.85 | 33.434 | 25.401 | 259.6 | 0.380 | 4.84 | 78.9 | 8.6 | 0.95 | 7.2 | 0.02 | 0.11 | 0.13 | 0.13 | 121 |
| 1 | 125 ISL | 11.63 | 11.61 | 33.465 | 25.469 | 253.2 | 0.393 | 4.71 | 76.4 | 9.6 | 1.02 | 8.4 | 0.02 | 0.09 | 0.11 | 0.11 | 126 |
| 1 | 145 | 10.90 | 10.88 | 33.599 | 25.706 | 231.0 | 0.442 | 4.25 | 67.9 | 13.8 | 1.25 | 13.0 | 0.01 | 0.03 | 0.05 | 0.05 | 146 |
| 1 | 150 ISL | 10.65 | 10.63 | 33.618 | 25.765 | 225.5 | 0.453 | 4.18 | 66.5 | 15.1 | 1.31 | 14.2 | 0.01 | 0.02 | 0.04 | 0.04 | 151 |
| 1 | 174 | 9.64 | 9.62 | 33.713 | 26.010 | 202.3 | 0.504 | 3.83 | 59.6 | 21.2 | 1.58 | 19.5 | 0.00 | 0.00 | 0.02 | 0.02 | 175 |
| 1 | 200 ISL | 9.48 | 9.46 | 33.877 | 26.165 | 188.2 | 0.555 | 3.20 | 49.7 | 26.0 | 1.78 | 22.7 | 0.00 | 0.00 | 0.03 | 0.03 | 202 |
| 1 | 203 | 9.46 | 9.44 | 33.891 | 26.180 | 186.9 | 0.561 | 3.12 | 48.4 | 26.5 | 1.80 | 23.0 | 0.00 | 0.00 | 0.03 | 0.03 | 205 |
| 1 | 231 | 9.32 | 9.29 | 34.036 | 26.316 | 174.5 | 0.611 | 2.53 | 39.1 | 31.4 | 2.03 | 25.7 | 0.01 | | | | 233 |
| 1 | 250 ISL | 8.99 | 8.96 | 34.074 | 26.399 | 166.8 | 0.644 | 2.37 | 36.4 | 34.5 | 2.11 | 27.0 | 0.01 | | | | 252 |
| 1 | 270 | 8.60 | 8.57 | 34.092 | 26.474 | 159.9 | 0.676 | 2.27 | 34.6 | 37.6 | 2.18 | 28.1 | 0.01 | | | | 272 |
| 1 | 300 ISL | 8.26 | 8.23 | 34.134 | 26.560 | 152.2 | 0.723 | 1.92 | 29.0 | 42.3 | 2.33 | 30.1 | 0.01 | | | | 302 |
| 1 | 325 | 8.01 | 7.98 | 34.158 | 26.616 | 147.1 | 0.761 | 1.62 | 24.3 | 46.4 | 2.45 | 31.8 | 0.01 | | | | 328 |
| 1 | 383 | 7.10 | 7.06 | 34.154 | 26.744 | 135.4 | 0.843 | 1.26 | 18.5 | 56.8 | 2.67 | 36.4 | 0.00 | | | | 386 |
| 1 | 400 ISL | 6.85 | 6.81 | 34.152 | 26.776 | 132.3 | 0.865 | 1.15 | 16.8 | 60.2 | 2.73 | 37.6 | 0.00 | | | | 403 |
| 1 | 448 | 6.26 | 6.22 | 34.157 | 26.859 | 124.7 | 0.927 | 0.86 | 12.4 | 69.4 | 2.86 | 40.5 | 0.00 | | | | 452 |
| 1 | 500 ISL | 5.94 | 5.90 | 34.203 | 26.936 | 117.8 | 0.990 | 0.65 | 9.3 | 76.0 | 2.97 | 41.7 | 0.00 | | | | 504 |
| 1 | 519 | 5.82 | 5.78 | 34.220 | 26.964 | 115.3 | 1.012 | 0.57 | 8.1 | 78.4 | 3.01 | 42.2 | 0.00 | | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|-----------|--------|--------|------|------|-------|-------|-------|
| 31 10.8 N | 120 55.1 W | 04/03/87 | 1743 GMT | 3923 M | 160 | 13 KT | 230 | 06 09 | 1 | 1017.1 MB | 16.3 C | 14.2 C | 7/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.17 | 15.1 | 33.322 | 24.642 | 328.8 | 0.000 | 5.81 | 101.4 | 1.3 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 0 |
| 1 | 1 | 15.17 | 15.17 | 33.322 | 24.642 | 328.9 | 0.003 | 5.81 | 101.4 | 1.3 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 0.02 | 1 |
| 1 | 10 ISL | 15.16 | 15.16 | 33.319 | 24.642 | 329.1 | 0.033 | 5.84 | 101.9 | 1.4 | 0.37 | 0.2 | 0.00 | 0.08 | 0.02 | 0.02 | 10 |
| 1 | 16 | 15.15 | 15.15 | 33.316 | 24.643 | 329.3 | 0.053 | 5.86 | 102.2 | 1.4 | 0.38 | 0.2 | 0.00 | 0.08 | 0.02 | 0.02 | 16 |
| 1 | 20 ISL | 15.13 | 15.13 | 33.316 | 24.647 | 329.0 | 0.066 | 5.85 | 102.0 | 1.4 | 0.38 | 0.2 | 0.00 | 0.08 | 0.02 | 0.02 | 20 |
| 1 | 30 | 15.05 | 15.05 | 33.309 | 24.659 | 328.1 | 0.099 | 5.82 | 101.3 | 1.4 | 0.38 | 0.2 | 0.00 | 0.09 | 0.02 | 0.02 | 30 |
| 1 | 40 | 14.94 | 14.93 | 33.285 | 24.665 | 327.9 | 0.131 | 5.84 | 101.4 | 1.4 | 0.35 | 0.2 | 0.00 | 0.15 | 0.05 | 0.05 | 40 |
| 1 | 50 ISL | 14.95 | 14.94 | 33.313 | 24.685 | 326.3 | 0.164 | 5.81 | 100.9 | 1.4 | 0.35 | 0.2 | 0.00 | 0.18 | 0.08 | 0.08 | 50 |
| 1 | 51 | 14.95 | 14.94 | 33.317 | 24.688 | 326.0 | 0.167 | 5.81 | 100.9 | 1.4 | 0.35 | 0.2 | 0.00 | 0.18 | 0.09 | 0.09 | 51 |
| 1 | 59 | 14.72 | 14.71 | 33.291 | 24.718 | 323.4 | 0.193 | 5.85 | 101.2 | 1.4 | 0.37 | 0.2 | 0.01 | 0.31 | 0.16 | 0.16 | 59 |
| 1 | 70 | 14.57 | 14.56 | 33.298 | 24.755 | 320.1 | 0.229 | 5.86 | 101.0 | 1.6 | 0.38 | 0.2 | 0.02 | 0.31 | 0.15 | 0.15 | 71 |
| 1 | 75 ISL | 14.40 | 14.39 | 33.321 | 24.809 | 315.1 | 0.245 | 5.77 | 99.1 | 2.1 | 0.42 | 0.8 | 0.08 | 0.36 | 0.19 | 0.19 | 76 |
| 1 | 79 | 14.21 | 14.20 | 33.339 | 24.863 | 310.1 | 0.257 | 5.67 | 97.1 | 2.6 | 0.47 | 1.4 | 0.12 | 0.39 | 0.22 | 0.22 | 80 |
| 1 | 93 | 13.23 | 13.22 | 33.358 | 25.078 | 289.8 | 0.299 | 5.33 | 89.4 | 4.6 | 0.65 | 4.5 | 0.06 | 0.31 | 0.27 | 0.27 | 94 |
| 1 | 100 ISL | 12.68 | 12.67 | 33.358 | 25.187 | 279.6 | 0.319 | 5.21 | 86.4 | 5.6 | 0.76 | 6.1 | 0.04 | 0.24 | 0.22 | 0.22 | 101 |
| 1 | 109 | 12.01 | 12.00 | 33.378 | 25.331 | 266.0 | 0.344 | 5.05 | 82.6 | 7.0 | 0.90 | 8.2 | 0.02 | 0.14 | 0.14 | 0.14 | 110 |
| 1 | 123 | 11.29 | 11.27 | 33.499 | 25.558 | 244.6 | 0.379 | 4.70 | 75.7 | 10.0 | 1.05 | 11.6 | 0.01 | 0.06 | 0.08 | 0.08 | 124 |
| 1 | 125 ISL | 11.24 | 11.22 | 33.519 | 25.583 | 242.3 | 0.384 | 4.60 | 74.0 | 10.6 | 1.08 | 12.2 | 0.01 | 0.06 | 0.08 | 0.08 | 126 |
| 1 | 147 | 11.00 | 10.98 | 33.723 | 25.785 | 223.6 | 0.436 | 3.43 | 55.0 | 17.3 | 1.48 | 17.8 | 0.00 | 0.03 | 0.07 | 0.07 | 148 |
| 1 | 150 ISL | 10.96 | 10.94 | 33.744 | 25.808 | 221.4 | 0.442 | 3.32 | 53.2 | 18.0 | 1.52 | 18.4 | 0.00 | 0.03 | 0.07 | 0.07 | 151 |
| 1 | 172 | 10.63 | 10.61 | 33.864 | 25.960 | 20 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 30 50.8 N | 121 35.4 W | 04/03/87 | 2350 GMT | 4114 M | 150 | 20 KT | 220 07 | 09 2 | 1014.2 MB | 16.0 C | 14.5 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.33 | 15.33 | 33.308 | 24.596 | 333.2 | 0.000 | 5.82 | 101.9 | 1.5 | 0.34 | 0.2 | 0.00 | 0.10 | 0.01 | 0 |
| 1 | 1 ISL | 15.33 | 15.33 | 33.308 | 24.596 | 333.2 | 0.003 | 5.82 | 101.9 | 1.5 | 0.34 | 0.2 | 0.00 | 0.10 | 0.01 | 1 |
| 1 | 10 ISL | 15.29 | 15.29 | 33.304 | 24.603 | 332.9 | 0.053 | 5.88 | 102.9 | 1.5 | 0.34 | 0.2 | 0.00 | 0.10 | 0.02 | 10 |
| 1 | 16 ISL | 15.27 | 15.27 | 33.306 | 24.609 | 332.5 | 0.053 | 5.92 | 103.5 | 1.5 | 0.34 | 0.2 | 0.00 | 0.10 | 0.02 | lb |
| 1 | 20 ISL | 15.21 | 15.21 | 33.293 | 24.612 | 332.3 | 0.067 | 5.91 | 103.2 | 1.5 | 0.34 | 0.2 | 0.00 | 0.10 | 0.02 | 20 |
| 1 | 30 ISL | 15.03 | 15.03 | 33.264 | 24.629 | 331.0 | 0.100 | 5.86 | 102.0 | 1.5 | 0.35 | 0.2 | 0.00 | 0.11 | 0.02 | 30 |
| 1 | 31 ISL | 15.01 | 15.01 | 33.262 | 24.632 | 330.8 | 0.103 | 5.86 | 101.9 | 1.5 | 0.35 | 0.2 | 0.00 | 0.11 | 0.02 | 31 |
| 1 | 40 ISL | 14.87 | 14.86 | 33.272 | 24.670 | 327.4 | 0.133 | 5.87 | 101.8 | 1.7 | 0.35 | 0.2 | 0.01 | 0.27 | 0.08 | 40 |
| 1 | 50 ISL | 14.20 | 14.19 | 33.154 | 24.721 | 322.7 | 0.165 | 5.98 | 102.2 | 1.7 | 0.39 | 0.2 | 0.00 | 0.26 | 0.07 | 50 |
| 1 | 60 ISL | 14.19 | 14.18 | 33.178 | 24.742 | 321.0 | 0.197 | 5.97 | 102.1 | 1.8 | 0.39 | 0.2 | 0.00 | 0.28 | 0.10 | 60 |
| 1 | 69 ISL | 14.14 | 14.13 | 33.182 | 24.756 | 320.0 | 0.226 | 5.98 | 102.1 | 1.8 | 0.40 | 0.2 | 0.00 | 0.36 | 0.15 | 70 |
| 1 | 75 ISL | 14.14 | 14.13 | 33.194 | 24.765 | 319.2 | 0.245 | 5.94 | 101.5 | 1.9 | 0.40 | 0.2 | 0.01 | 0.35 | 0.16 | 76 |
| 1 | 79 ISL | 14.14 | 14.13 | 33.206 | 24.775 | 318.4 | 0.258 | 5.90 | 100.8 | 1.9 | 0.40 | 0.2 | 0.03 | 0.35 | 0.16 | 80 |
| 1 | 94 ISL | 14.33 | 14.32 | 33.341 | 24.840 | 312.8 | 0.305 | 5.78 | 99.2 | 2.1 | 0.41 | 0.8 | 0.11 | 0.25 | 0.14 | 95 |
| 1 | 100 ISL | 13.97 | 13.96 | 33.363 | 24.932 | 304.1 | 0.324 | 5.68 | 96.8 | 2.7 | 0.46 | 1.8 | 0.10 | 0.21 | 0.15 | 101 |
| 1 | 107 ISL | 13.48 | 13.47 | 33.396 | 25.058 | 292.2 | 0.345 | 5.55 | 93.6 | 3.6 | 0.53 | 3.0 | 0.08 | 0.17 | 0.16 | 108 |
| 1 | 123 ISL | 12.91 | 12.89 | 33.593 | 25.325 | 267.2 | 0.390 | 5.25 | 87.6 | 4.8 | 0.62 | 5.0 | 0.02 | 0.13 | 0.16 | 124 |
| 1 | 125 ISL | 12.73 | 12.71 | 33.599 | 25.365 | 263.4 | 0.395 | 5.20 | 86.5 | 5.3 | 0.66 | 5.7 | 0.02 | 0.12 | 0.15 | 126 |
| 1 | 147 ISL | 10.64 | 10.62 | 33.629 | 25.775 | 224.4 | 0.449 | 4.67 | 74.2 | 12.0 | 1.11 | 13.4 | 0.00 | 0.03 | 0.05 | 148 |
| 1 | 150 ISL | 10.47 | 10.45 | 33.644 | 25.816 | 220.5 | 0.455 | 4.64 | 73.5 | 12.6 | 1.14 | 14.0 | 0.00 | 0.02 | 0.04 | 151 |
| 1 | 172 ISL | 9.60 | 9.58 | 33.769 | 26.061 | 197.5 | 0.501 | 4.36 | 67.8 | 17.6 | 1.35 | 17.6 | 0.00 | 0.00 | 0.02 | 173 |
| 1 | 200 ISL | 8.93 | 8.91 | 33.908 | 26.278 | 177.3 | 0.554 | 3.43 | 52.6 | 27.4 | 1.75 | 23.6 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 201 ISL | 8.91 | 8.89 | 33.912 | 26.284 | 176.7 | 0.555 | 3.40 | 52.1 | 27.8 | 1.76 | 23.8 | 0.00 | 0.00 | 0.02 | 203 |
| 1 | 229 ISL | 8.27 | 8.25 | 33.995 | 26.448 | 161.5 | 0.603 | 3.10 | 46.8 | 34.2 | 1.94 | 26.5 | 0.00 | | | 231 |
| 1 | 250 ISL | 7.96 | 7.93 | 34.024 | 26.517 | 155.1 | 0.636 | 2.85 | 42.8 | 38.3 | 2.05 | 28.0 | 0.00 | | | 252 |
| 1 | 269 ISL | 7.75 | 7.72 | 34.038 | 26.559 | 151.3 | 0.665 | 2.61 | 39.0 | 41.7 | 2.15 | 29.3 | 0.00 | | | 271 |
| 1 | 300 ISL | 7.37 | 7.34 | 34.057 | 26.629 | 145.1 | 0.711 | 2.23 | 33.0 | 47.2 | 2.31 | 31.7 | 0.00 | | | 302 |
| 1 | 323 ISL | 7.13 | 7.10 | 34.069 | 26.672 | 141.2 | 0.744 | 1.96 | 28.8 | 51.0 | 2.43 | 33.3 | 0.00 | | | 326 |
| 1 | 381 ISL | 6.74 | 6.70 | 34.113 | 26.760 | 133.4 | 0.824 | 1.39 | 20.3 | 58.8 | 2.66 | 35.4 | 0.00 | | | 384 |
| 1 | 400 ISL | 6.51 | 6.47 | 34.122 | 26.798 | 130.0 | 0.849 | 1.22 | 17.7 | 61.7 | 2.74 | 36.5 | 0.00 | | | 403 |
| 1 | 448 ISL | 5.95 | 5.91 | 34.146 | 26.889 | 121.5 | 0.909 | 0.85 | 12.2 | 69.3 | 2.93 | 39.2 | 0.00 | | | 452 |
| 1 | 500 ISL | 5.68 | 5.64 | 34.183 | 26.952 | 116.0 | 0.971 | 0.63 | 9.0 | 78.1 | 3.04 | 40.2 | 0.00 | | | 504 |
| 1 | 520 ISL | 5.58 | 5.54 | 34.198 | 26.976 | 113.8 | 0.994 | 0.54 | 7.7 | 81.5 | 3.08 | 40.6 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 30 30.7 N | 122 15.4 W | 05/03/87 | 0524 GMT | 4213 M | 160 | 17 KT | | | 1013.8 MB | 16.8 C | 15.5 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.75 | 15.75 | 33.408 | 24.580 | 334.7 | 0.000 | 5.80 | 102.5 | 1.3 | 0.33 | 0.2 | 0.00 | 0.08 | 0.02 | 0 |
| 1 | 10 ISL | 15.75 | 15.75 | 33.410 | 24.582 | 334.9 | 0.033 | 5.80 | 102.5 | 1.5 | 0.32 | 0.2 | 0.00 | 0.08 | 0.02 | 10 |
| 1 | 15 ISL | 15.75 | 15.75 | 33.411 | 24.583 | 335.0 | 0.050 | 5.80 | 102.5 | 1.6 | 0.32 | 0.2 | 0.00 | 0.08 | 0.02 | 15 |
| 1 | 20 ISL | 15.75 | 15.75 | 33.411 | 24.583 | 335.1 | 0.067 | 5.79 | 102.3 | 1.6 | 0.32 | 0.2 | 0.00 | 0.08 | 0.02 | 20 |
| 1 | 30 ISL | 15.74 | 15.74 | 33.411 | 24.586 | 335.2 | 0.100 | 5.78 | 102.1 | 1.5 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 30 |
| 1 | 31 ISL | 15.74 | 15.74 | 33.411 | 24.586 | 335.2 | 0.104 | 5.78 | 102.1 | 1.5 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 31 |
| 1 | 40 ISL | 15.75 | 15.74 | 33.412 | 24.585 | 335.6 | 0.134 | 5.80 | 102.4 | 1.5 | 0.31 | 0.2 | 0.00 | 0.08 | 0.02 | 40 |
| 1 | 50 ISL | 15.73 | 15.72 | 33.412 | 24.590 | 335.4 | 0.168 | 5.77 | 101.9 | 1.5 | 0.32 | 0.2 | 0.00 | 0.09 | 0.02 | 50 |
| 1 | 51 ISL | 15.73 | 15.72 | 33.412 | 24.590 | 335.4 | 0.171 | 5.77 | 101.9 | 1.5 | 0.32 | 0.2 | 0.00 | 0.09 | 0.02 | 51 |
| 1 | 61 ISL | 15.74 | 15.73 | 33.411 | 24.587 | 336.0 | 0.204 | 5.77 | 101.9 | 1.4 | 0.31 | 0.2 | 0.00 | 0.09 | 0.02 | 61 |
| 1 | 71 ISL | 15.74 | 15.73 | 33.416 | 24.591 | 335.9 | 0.238 | 5.77 | 101.9 | 1.4 | 0.32 | 0.2 | 0.00 | 0.10 | 0.02 | 72 |
| 1 | 75 ISL | 15.80 | 15.79 | 33.440 | 24.596 | 335.6 | 0.252 | 5.74 | 101.5 | 1.5 | 0.31 | 0.2 | 0.00 | 0.13 | 0.04 | 76 |
| 1 | 81 ISL | 15.88 | 15.87 | 33.492 | 24.619 | 333.7 | 0.272 | 5.70 | 101.0 | 1.6 | 0.30 | 0.2 | 0.00 | 0.18 | 0.09 | 82 |
| 1 | 94 ISL | 15.72 | 15.71 | 33.654 | 24.780 | 318.8 | 0.314 | 5.65 | 99.9 | 1.9 | 0.30 | 0.3 | 0.03 | 0.23 | 0.16 | 95 |
| 1 | 100 ISL | 15.41 | 15.39 | 33.690 | 24.876 | 309.7 | 0.333 | 5.65 | 99.3 | 2.2 | 0.32 | 0.5 | 0.06 | 0.22 | 0.15 | 101 |
| 1 | 109 ISL | 14.86 | 14.84 | 33.715 | 25.016 | 296.6 | 0.360 | 5.63 | 97.9 | 2.7 | 0.35 | 1.0 | 0.09 | 0.20 | 0.13 | I10 |
| 1 | 125 ISL | 14.08 | 14.06 | 33.704 | 25.173 | 281.9 | 0.406 | 5.48 | 93.7 | 3.1 | 0.42 | 2.1 | 0.04 | 0.16 | 0.17 | 126 |
| 1 | 149 ISL | 11.87 | 11.85 | 33.673 | 25.587 | 242.7 | 0.469 | 5.06 | 82.6 | 7.6 | 0.83 | 8.8 | 0.02 | 0.05 | 0.06 | 150 |
| 1 | 150 ISL | 11.81 | 11.79 | 33.673 | 25.598 | 241.6 | 0.472 | 5.04 | 82.2 | 7.8 | 0.84 | 9.0 | 0.02 | 0.05 | 0.06 | 151 |
| 1 | 175 ISL | 10.58 | 10.56 | 33.692 | 25.835 | 219.4 | 0.529 | 4.65 | 73.9 | 12.5 | I.II | 13.7 | 0.01 | 0.02 | 0.05 | 176 |
| 1 | 200 ISL | 9.44 | 9.42 | 33.803 | 26.114 | 193.0 | 0.581 | 4.27 | 66.2 | 19.8 | 1.40 | 18.7 | 0.00 | 0.00 | 0.02 | 206 |
| 1 | 204 ISL | 9.29 | 9.27 | 33.823 | 26.154 | 189.2 | 0.589 | 4.21 | 65.0 | 21.0 | 1.44 | 19.4 | 0.00 | 0.00 | 0.02 | 206 |
| 1 | 233 ISL | 8.67 | 8.65 | 33.919 | 26.327 | 173.1 | 0.641 | 3.90 | 59.4 | 27.0 | 1.64 | 22.5 | 0.00 | | | 235 |
| 1 | 250 ISL | 8.39 | 8.36 | 33.951 | 26.396 | 166.8 | 0.670 | 3.77 | 57.1 | 29.9 | 1.72 | 23.9 | 0.00 | | | 252 |
| 1 | 272 ISL | 8.06 | 8.03 | 33.978 | 26.467 | 160.3 | 0.706 | 3.55 | 53.4 | 34.0 | 1.83 | 25.7 | 0.00 | | | 274 |
| 1 | 300 ISL | 7.53 | 7.50 | 34.006 | 26.566 | 151.1 | 0.750 | 2.93 | 43.5 | 42.1 | 2.08</ | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 IIO

| LATITUDE 30 10.8 N | LONGITUDE 122 55.4 W | DAY/MO/YR 05/03/87 | MESSENGER 1125 GMT | BOTTOM 3642 M | WIND 170 24 KT | SPEED 24 KT | WAVES | WEATHER | BAROMETER 1012.2 MB | DRY 16.6 C | WET 15.2 C | CLOUD AMT | TYPE | STATION | 93 | IIO |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|----------------|-------|---------|------------------------|---------------|---------------|-----------|------|---------------|----------------|-----|
| | | | | | | | | | | | | | | PHAE0 UG/L | PRESS D.BAR | |
| 0 ISL | 16.40 | 16.40 | 33.635 | 24.607 | 332.1 | 0.000 | | | 1.8 | 0.30 | 0.2 | 0.00 | 0.08 | 0.03 | 0 | |
| 1 1 | 16.40 | 16.40 | 33.635 | 24.607 | 332.2 | 0.003 | | | 1.8 | 0.30 | 0.2 | 0.00 | 0.08 | 0.03 | 1 | |
| 10 ISL | 16.40 | 16.40 | 33.636 | 24.608 | 332.4 | 0.033 | | | 1.9 | 0.30 | 0.2 | 0.00 | 0.08 | 0.02 | 10 | |
| 1 17 | 16.39 | 16.39 | 33.638 | 24.613 | 332.2 | 0.056 | 5.75 | 103.0 | 2.0 | 0.30 | 0.2 | 0.00 | 0.08 | 0.02 | 17 | |
| 20 ISL | 16.39 | 16.39 | 33.638 | 24.613 | 332.3 | 0.066 | 5.74 | 102.8 | 2.0 | 0.30 | 0.2 | 0.00 | 0.08 | 0.02 | 20 | |
| 30 ISL | 16.38 | 16.38 | 33.639 | 24.616 | 332.3 | 0.100 | 5.69 | 101.9 | 2.0 | 0-, 29 | 0.2 | 0.00 | 0.08 | 0.02 | 30 | |
| 1 36 | 16.38 | 16.37 | 33.639 | 24.616 | 332.5 | 0.120 | 5.66 | 101.3 | 2.0 | 0.29 | 0.2 | 0.00 | 0.08 | 0.02 | 36 | |
| 50 ISL | 16.39 | 16.38 | 33.641 | 24.616 | 333.0 | 0.166 | 5.66 | 101.4 | 1.8 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 50 | |
| 1 56 | 16.40 | 16.39 | 33.642 | 24.615 | 333.3 | 0.186 | 5.66 | 101.4 | 1.7 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 56 | |
| 1 72 | 16.40 | 16.39 | 33.642 | 24.615 | 333.7 | 0.240 | 5.67 | 101.5 | 1.6 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 73 | |
| 75 ISL | 16.41 | 16.40 | 33.642 | 24.613 | 334.1 | 0.250 | 5.68 | 101.7 | 1.6 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 76 | |
| 1 80 | 16.42 | 16.41 | 33.643 | 24.612 | 334.3 | 0.266 | 5.70 | 102.1 | 1.6 | 0.29 | 0.2 | 0.00 | 0.09 | 0.03 | 81 | |
| 1 90 | 16.39 | 16.38 | 33.644 | 24.620 | 333.9 | 0.300 | 5.67 | 101.5 | 1.6 | 0.29 | 0.2 | 0.00 | 0.12 | 0.04 | 91 | |
| 1 100 | 16.38 | 16.36 | 33.645 | 24.623 | 333.9 | 0.333 | 5.65 | 101.1 | 1.5 | 0.29 | 0.2 | 0.00 | 0.15 | 0.05 | 101 | |
| 1 109 | 16.21 | 16.19 | 33.654 | 24.669 | 329.8 | 0.363 | 5.67 | 101.2 | 1.8 | 0.30 | 0.2 | 0.02 | 0.21 | 0.13 | 110 | |
| 1 125 | 14.46 | 14.44 | 33.597 | 25.011 | 297.4 | 0.413 | 5.54 | 95.4 | 2.8 | 0.42 | 1.4 | 0.06 | 0.19 | 0.21 | 126 | |
| 1 141 | 13.31 | 13.29 | 33.569 | 25.227 | 277.1 | 0.459 | 5.29 | 89.0 | 4.2 | 0.57 | 3.7 | 0.02 | 0.14 | 0.18 | 142 | |
| 150 ISL | 12.80 | 12.78 | 33.605 | 25.356 | 264.9 | 0.483 | 5.05 | 84.1 | 5.7 | 0.69 | 5.9 | 0.02 | 0.11 | 0.14 | 151 | |
| 1 160 | 12.25 | 12.23 | 33.649 | 25.497 | 251.6 | 0.509 | 4.79 | 78.8 | 7.7 | 0.84 | 8.6 | 0.01 | 0.07 | 0.10 | 161 | |
| 1 178 | 11.04 | 11.02 | 33.658 | 25.728 | 229.8 | 0.553 | 4.52 | 72.5 | 11.9 | 1.10 | 13.1 | 0.00 | 0.02 | 0.05 | 179 | |
| 200 ISL | 9.98 | 9.96 | 33.752 | 25.985 | 205.5 | 0.601 | 4.15 | 65.1 | 17.7 | 1.39 | 17.8 | 0.00 | 0.00 | 0.02 | 202 | |
| 1 204 | 9.83 | 9.81 | 33.772 | 26.026 | 201.6 | 0.609 | 4.08 | 63.8 | 18.7 | 1.44 | 18.5 | 0.00 | 0.00 | 0.02 | 206 | |
| 1 232 | 9.15 | 9.12 | | | | | 0.663 | 3.75 | 57.7 | 24.5 | 1.63 | 22.0 | 0.00 | | 234 | |
| 250 ISL | 8.82 | 8.79 | 33.857 | 26.256 | 180.3 | 0.696 | 3.68 | 56.2 | 27.3 | 1.69 | 23.2 | 0.00 | | | 252 | |
| 1 272 | 8.45 | 8.42 | 33.879 A | 26.330 | 173.4 | 0.735 | 3.57 | 54.1 | 30.8 | 1.77 | 24.5 | 0.00 | | | 274 | |
| 300 ISL | 7.91 | 7.88 | 33.964 | 26.478 | 159.6 | 0.781 | 3.08 | 46.1 | 37.6 | 1.99 | 27.5 | 0.00 | | | 302 | |
| 1 325 | 7.45 | 7.42 | 34.034 | 26.600 | 148.3 | 0.820 | 2.56 | 38.0 | 44.3 | 2.20 | 30.4 | 0.00 | | | 328 | |
| 1 385 | 6.64 | 6.60 | 34.074 | 26.743 | 135.0 | 0.905 | 1.63 | 23.7 | 58.1 | 2.58 | 35.3 | 0.00 | | | 388 | |
| 400 ISL | 6.50 | 6.46 | 34.086 | 26.771 | 132.5 | 0.925 | 1.45 | 21.0 | 61.1 | 2.65 | 36.2 | 0.00 | | | 403 | |
| 1 450 | 6.10 | 6.06 | 34.126 | 26.854 | 124.9 | 0.989 | 0.97 | 13.9 | 70.3 | 2.85 | 38.6 | 0.00 | | | 454 | |
| 500 ISL | 5.74 | 5.70 | 34.165 | 26.930 | 118.1 | 1.050 | 0.70 | 10.0 | 78.1 | 2.98 | 40.2 | 0.00 | | | 504 | |
| 1 521 | 5.59 | 5.55 | 34.182 | 26.962 | 115.2 | 1.075 | 0.59 | 8.4 | 81.4 | 3.03 | 40.9 | 0.00 | | | 525 | |

A) AN ERROR OF - .01 (-0.391S) SALINOMETER CONDUCTIVITY RATIO READING HAS BEEN ASSUMED FOR THIS VALUE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 120

| LATITUDE 29 50.8 N | LONGITUDE 123 35.2 W | DAY/MO/YR 05/03/87 | MESSENGER 1709 GMT | BOTTOM 3928 M | WIND 190 19 KT | SPEED 19 KT | WAVES | WEATHER | BAROMETER 1013.0 MB | DRY 16.4 C | WET 16.0 C | CLOUD AMT | TYPE | STATION | 93 | 120 |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|----------------|--------|---------|------------------------|---------------|---------------|-----------|------|---------------|----------------|-----|
| | | | | | | | | | | | | | | PHAE0 UG/L | PRESS D.BAR | |
| 0 ISL | 16.75 | 16.75 | 33.725 | 24.595 | 333.3 | 0.000 | 5.60 | 101.0 | 1.6 | 0.27 | 0.2 | 0.00 | 0.09 | 0.02 | 0 | |
| 1 1 | 16.75 | 16.75 | 33.725 | 24.595 | 333.3 | 0.003 | 5.60 | 101.0 | 1.6 | 0.27 | 0.2 | 0.00 | 0.09 | 0.02 | 1 | |
| 10 ISL | 16.76 | 16.76 | 33.727 | 24.595 | 333.7 | 0.033 | 5.63 | 101.6 | 1.6 | 0.28 | 0.2 | 0.00 | 0.09 | 0.02 | 10 | |
| 1 16 | 16.76 | 16.76 | 33.730 | 24.597 | 333.7 | 0.053 | 5.66 | 102.1 | 1.6 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 16 | |
| 20 ISL | 16.76 | 16.76 | 33.732 | 24.599 | 333.6 | 0.067 | 5.65 | 102.0 | 1.5 | 0.29 | 0.2 | 0.00 | 0.09 | 0.02 | 20 | |
| 30 ISL | 16.76 | 16.76 | 33.737 | 24.603 | 333.6 | 0.100 | 5.63 | 101.6 | 1.2 | 0.28 | 0.2 | 0.00 | 0.09 | 0.03 | 30 | |
| 1 36 | 16.76 | 16.75 | 33.739 | 24.605 | 333.5 | 0.120 | 5.61 | 101.2 | 1.1 | 0.27 | 0.2 | 0.00 | 0.09 | 0.03 | 36 | |
| 50 ISL | 16.81 | 16.80 | 33.752 | 24.604 | 334.1 | 0.167 | 5.61 | 101.3 | 1.2 | 0.27 | 0.2 | 0.00 | 0.10 | 0.03 | 50 | |
| 1 56 | 16.83 | 16.82 | 33.757 | 24.603 | 334.4 | 0.187 | 5.61 | 101.4 | 1.2 | 0.27 | 0.2 | 0.00 | 0.10 | 0.03 | 56 | |
| 1 71 | 16.82 | 16.81 | 33.769 | 24.615 | 333.8 | 0.237 | 5.60 | 101.2 | 1.3 | 0.27 | 0.2 | 0.00 | 0.11 | 0.03 | 72 | |
| 75 ISL | 16.83 | 16.82 | 33.772 | 24.615 | 333.9 | 0.250 | 5.60 | 101.2 | 1.3 | 0.27 | 0.2 | 0.00 | 0.11 | 0.03 | 76 | |
| 1 80 | 16.85 | 16.84 | 33.774 | 24.613 | 334.3 | 0.267 | 5.60 | 101.2 | 1.2 | 0.27 | 0.2 | 0.00 | 0.11 | 0.03 | 81 | |
| 1 90 | 16.86 | 16.85 | 33.777 | 24.613 | 334.6 | 0.301 | 5.59 | 101.1 | 1.3 | 0.27 | 0.2 | 0.00 | 0.11 | 0.03 | 91 | |
| 1 100 | 16.86 | 16.84 | 33.781 | 24.616 | 334.6 | 0.334 | 5.59 | 101.1 | 1.1 | 0.26 | 0.2 | 0.00 | 0.12 | 0.05 | 101 | |
| 1 UU | 16.88 | 16.86 | 33.798 | 24.625 | 334.2 | 0.367 | 5.55 | 100.4 | 1.5 | 0.27 | 0.2 | 0.00 | 0.15 | 0.08 | 111 | |
| 1 125 | 15.21 | 15.19 | 33.664 | 24.901 | 308.0 | 0.416 | 5.56 | 97.3 | 1.8 | 0.35 | 0.4 | 0.08 | 0.24 | 0.24 | 126 | |
| 1 139 | 14.22 | 14.20 | 33.755 | 25.184 | 281.4 | 0.457 | 5.22 | 89.6 | 3.3 | 0.49 | 2.7 | 0.03 | 0.14 | 0.22 | 140 | |
| 150 ISL | 13.46 | 13.44 | 33.745 | 25.333 | 267.3 | 0.487 | 5.03 | 85.0 | 4.6 | 0.62 | 4.9 | 0.02 | 0.10 | 0.16 | 151 | |
| 1 159 | 12.88 | 12.86 | 33.717 | 25.427 | 258.4 | 0.511 | 4.90 | 81.8 | 5.8 | 0.73 | 6.8 | 0.01 | 0.08 | 0.10 | 160 | |
| 1 178 | 11.85 | 11.83 | 33.704 | 25.615 | 240.7 | 0.558 | 4.67 | 76.2 | 8.9 | 0.92 | 10.3 | 0.01 | 0.05 | 0.07 | 179 | |
| 200 ISL | 10.65 | 10.63 | 33.739 | 25.860 | 217.6 | 0.608 | 4.24 | 67.5 | 15.4 | 1.23 | 15.5 | 0.00 | 0.01 | 0.03 | 202 | |
| 1 203 | 10.49 | 10.47 | 33.749 | 25.896 | 214.2 | 0.615 | 4.18 | 66.3 | 16.4 | 1.27 | 16.2 | 0.00 | 0.01 | 0.03 | 205 | |
| 1 231 | 9.31 | 9.28 | 33.904 | 26.215 | 184.0 | 0.671 | 3.64 | 56.3 | 25.5 | 1.62 | 21.8 | 0.00 | | | 233 | |
| 250 ISL | 8.87 | 8.84 | 33.957 | 26.326 | 173.6 | 0.705 | 3.47 | 53.1 | 29.2 | 1.74 | 23.7 | 0.00 | | | 252 | |
| 1 271 | 8.54 | 8.51 | 33.987 | 26.401 | 166.7 | 0.740 | 3.33 | 50.6 | 32.5 | 1.83 | 25.0 | 0.00 | | | 273 | |
| 300 ISL | 8.08 | 8.05 | 34.020 | 26.497 | 158.0 | 0.788 | 3.01 | 45.3 | 37.8 | 1.98 | 27.2 | 0.00 | | | 302 | |
| 1 325 | 7.76 | 7.73 | 34.044 | 26.563 | 152.0 | 0.826 | 2.67</ | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 51

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI | | DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------|-------|----------|-----------|------|-----------|------|-----------|------|--------|------|-------|-------|-----------------|--------|----------|------|----------------|-------|------------------|------|--|
| 35 | 1.3 N | 120 | 55.1 W | 16/ | 3/87 | 1931 | GMT | 8 | M | 1210 | - | 1836 | PST | 1213 | PST | 1836 | PST | 524.8 | MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | 1 | 2 | MEAN | DARK | | |
| M | DBG | C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | | | | | | | | |
| 1 | 12.04 | 33.494 | 25.413 | 5.35 | 87.6 | 9.7 | 0.97 | 9.0 | 0.21 | 1.28 | 0.27 | 99. | 11.7 | 15.8 | 13.7 | 0.18 | | | | | |
| 5 | 12.01 | 33.493 | 25.417 | 5.35 | 87.6 | 9.7 | 0.96 | 8.9 | 0.21 | 1.26 | 0.31 | 36. | 25.8 | 28.3 | 27.0 | 0.19 | | | | | |
| 7 | 12.01 | 33.495 | 25.419 | 5.34 | 87.4 | 9.7 | 0.96 | 8.9 | 0.22 | 1.35 | 0.33 | 26. | 31.0 | 31.4 | 31.2 | 0.20 | | | | | |
| U | 12.00 | 33.493 | 25.419 | 5.34 | 87.4 | 9.7 | 0.97 | 8.9 | 0.23 | 1.38 | 0.32 | 13. | 26.6 | 26.9 | 26.8 | 0.20 | | | | | |
| 23 | 11.69 | 33.536 | 25.511 | 4.86 | 79.0 | 12.0 | 1.10 | 11.2 | 0.20 | 0.91 | 0.30 | 1.4 | 8.4 | 7.7 | 8.1 | 0.18 | | | | | |
| 34 | 10.87 | 33.675 | 25.768 | 3.77 | 60.3 | 18.5 | 1.48 | 17.4 | 0.06 | 0.12 | 0.24 | 0.20 | 0.25 | 0.32 | 0.28 | 0.12 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 60

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI | | DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------|--------|----------|-----------|------|-----------|------|-----------|------|--------|------|-------|-------|-----------------|--------|----------|------|----------------|-------|------------------|------|--|
| 34 | 43.3 N | 121 | 32.9 W | 15/ | 3/87 | 1958 | GMT | 12 | M | 1220 | - | 1837 | PST | 1215 | PST | 1837 | PST | 368.7 | MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | 1 | 2 | MEAN | DARK | | |
| M | DEG | C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | | | | | | | | |
| 0 | 13.40 | 33.278 | 24.980 | 6.12 | 103.0 | 2.9 | 0.43 | 0.7 | 0.06 | 0.76 | 0.22 | 99. | 4.7 | 4.1 | 4.4 | 0.20 | | | | | |
| 9 | 13.39 | 33.278 | 24.982 | 6.12 | 103.0 | 2.9 | 0.43 | 0.7 | 0.06 | 0.68 | 0.23 | 36. | 12.4 | 12.2 | 12.3 | 0.18 | | | | | |
| 12 | 13.39 | 33.278 | 24.982 | 6.12 | 103.0 | 2.9 | 0.43 | 0.7 | 0.06 | 0.73 | 0.18 | 26. | 12.6 | 12.7 | 12.6 | 0.17 | | | | | |
| 16 | 13.39 | 33.278 | 24.982 | 6.13 | 103.2 | 3.4 | 0.43 | 0.7 | 0.06 | 0.80 | 0.23 | 13. | 12.6 | 11.9 | 12.3 | 0.19 | | | | | |
| 35 | 12.40 | 33.294 | 25.190 | 5.47 | 90.2 | 6.6 | 0.75 | 6.0 | 0.12 | 0.65 | 0.22 | 1.4 | 4.6 | 4.7 | 4.7 | 0.16 | | | | | |
| 51 | 11.94 | 33.406 | 25.364 | 5.05 | 82.5 | 9.6 | 0.96 | 9.5 | 0.13 | 0.31 | 0.23 | 0.20 | 0.87 | 0.95 | 0.91 | 0.12 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 77 100

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI | | DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------|--------|----------|-----------|------|-----------|------|-----------|------|--------|------|-------|-------|-----------------|--------|------------|------|----------------|-------|------------------|------|--|
| 33 | 23.3 N | 124 | 19.4 W | 14/ | 3/87 | 1942 | GMT | 38 | M | 1221 | - | 1846 | PST | 1226 | PST | 1846 | PST | 130.2 | MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC C/M3) | 1 | 2 | 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 | 15.40 | 33.261 | 24.545 | 5.82 | 102.0 | 1.6 | 0.35 | 0.2 | 0.00 | 0.06 | 0.01 | 99. | 0.78 | 0.98 | 0.88 | 0.15 | | | | | |
| 28 | 15.21 | 33.221 | 24.557 | 5.85 | 102.1 | 1.6 | 0.34 | 0.2 | 0.00 | 0.08 | 0.01 | 36. | 1.2 | 1.1 | 1.2 | 0.14 | | | | | |
| 35 | 14.80 | 33.124 | 24.571 | 5.92 | 102.4 | 1.6 | 0.37 | 0.2 | 0.00 | 0.11 | 0.02 | 26. | 1.2 | 1.4 | 1.3 | 0.18 | | | | | |
| 54 | 14.28 | 33.043 | 24.619 | 5.97 | 102.2 | 1.5 | 0.38 | 0.2 | 0.00 | 0.19 | 0.05 | 13. | 1.4 | 1.5 | 1.5 | 0.19 | | | | | |
| 109 | 12.93 | 33.128 | 24.960 | 5.61 | 93.4 | 3.8 | 0.62 | 3.8 | 0.04 | 0.20 | 0.15 | 1.4 | 0.48 | 0.46 | 0.47 | 0.12 | | | | | |
| 158 | 9.94 | 33.548 | 25.832 | 4.10 | 64.1 | 17.4 | 1.45 | 18.6 | 0.00 | 0.01 | 0.04 | 0.20 | -0.02* | 0.04 | 0.01 | 0.09 | | | | | |

*DARK UPTAKE EXCEEDED LIGHT UPTAKE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 80 70

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI | | DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------|--------|----------|-----------|------|-----------|------|-----------|------|--------|------|-------|-------|-----------------|--------|-----------|------|----------------|-------|------------------|------|--|
| 33 | 49.1 N | 121 | 50.6 W | 13/ | 3/87 | 1952 | GMT | 28 | M | 1215 | - | 1843 | PST | 1217 | PST | 1840 | PST | 473.1 | MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | 1 | 2 | MEAN | DARK | | |
| M | DEG | C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | | | | | | | | |
| 0 | 14.26 | 33.012 | 24.598 | 6.00 | 102.6 | 2.0 | 0.39 | 0.2 | 0.00 | 0.15 | 0.02 | 99. | 2.4 | 2.4 | 2.4 | 0.16 | | | | | |
| 19 | 13.57 | 32.975 | 24.712 | 6.09 | 102.7 | 2.1 | 0.40 | 0.2 | 0.00 | 0.25 | 0.05 | 36. | 4.0 | 3.9 | 4.0 | 0.14 | | | | | |
| 25 | 13.46 | 33.075 | 24.811 | 6.16 | 103.7 | 2.6 | 0.39 | 0.2 | 0.01 | 0.58 | 0.11 | 26. | 8.9 | 8.7 | 8.8 | 0.21 | | | | | |
| 37 | 13.39 | 33.134 | 24.871 | 6.19 | 104.1 | 2.7 | 0.39 | 0.2 | 0.01 | 0.68 | 0.21 | 13. | 8.0 | 7.7 | 7.9 | 0.20 | | | | | |
| 79 | 12.69 | 33.309 | 25.146 | 5.76 | 95.5 | 4.7 | 0.59 | 3.2 | 0.41 | 0.39 | 0.33 | 1.4 | 2.8 | 2.8 | 2.8 | 0.21 | | | | | |
| 114 | 9.94 | 33.518 | 25.807 | 4.07 | 63.7 | 17.6 | 1.48 | 18.6 | 0.02 | 0.03 | 0.08 | 6.20 | -0.01* | 0.02 | 0.0 | 0.15 | | | | | |

*DARK UPTAKE EXCEEDED LIGHT UPTAKE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 42

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI | | DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------|--------|----------|-----------|------|-----------|------|-----------|------|--------|------|-------|-------|-----------------|--------|----------|------|----------------|-------|------------------|------|--|
| 34 | 10.7 N | 119 | 30.5 W | 12/ | 3/87 | 1922 | GMT | 12 | M | 1159 | - | 1830 | PST | 1208 | PST | 1830 | PST | 610.1 | MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | 1 | 2 | MEAN | DARK | | |
| M | DEG | C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | | | | | | | | |
| 0 | 14.11 | 33.412 | 24.938 | 6.71 | 114.7 | 0.4 | 0.21 | 0.2 | 0.00 | 1.25 | 0.16 | 99. | 21.2 | 25.2 | 23.2 | 0.51 | | | | | |
| 9 | 14.07 | 33.410 | 24.945 | 6.70 | 114.4 | 0.4 | 0.20 | 0.2 | 0.00 | 1.38 | 0.19 | 36. | 32.2 | 20.8 | 26.5 | 0.50 | | | | | |
| 12 | 14.05 | 33.409 | 24.948 | 6.70 | 114.4 | 0.4 | 0.20 | 0.2 | 0.00 | 1 | | | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|-----------|-----------|-----------|---------|-----------------|------------|----------|---------------|----------------|------------|-------|-------|--------|----------|------|------|
| 32 54.7 N | 122 7.7 W | 11/ 3/87 | 1942 GMT | 19 M | 1212 - 1835 PST | 1218 PST | 1836 PST | 231.5 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 14.42 | 33.203 | 24.711 | 6.00 | 103.1 | 2.3 | 0.39 | 0.2 | 0.00 | 0.20 | 0.03 | 99. | 1.1 | 1.4 | 1.2 | 0.35 |
| 13 | 14.03 | 33.188 | 24.782 | 6.05 | 103.1 | 2.3 | 0.40 | 0.2 | 0.00 | 0.25 | 0.04 | 36. | 4.9 | 4.1 | 4.5 | 0.31 |
| 18 | 13.99 | 33.188 | 24.790 | 6.04 | 102.9 | 2.2 | 0.39 | 0.2 | 0.00 | 0.26 | 0.05 | 26. | 4.6 | 4.7 | 4.6 | 0.30 |
| 26 | 13.96 | 33.192 | 24.800 | 6.05 | 103.0 | 2.2 | 0.39 | 0.2 | 0.00 | 0.32 | 0.05 | 13. | 3.4 | 3.6 | 3.5 | 0.27 |
| 54 | 13.64 | 33.294 | 24.945 | 5.93 | 100.3 | 2.7 | 0.44 | 0.8 | 0.11 | 0.52 | 0.22 | 1.4 | 3.6 | 3.3 | 3.4 | 0.26 |
| 78 | 11.61 | 33.332 | 25.368 | 4.93 | 79.9 | 8.7 | 0.99 | 9.9 | 0.02 | 0.13 | 0.16 | 0.20 | 0.17 | 0.16 | 0.16 | 0.14 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|----------------|------------|-------|-------|--------|----------|------|-------|
| 33 29.4 N | 119 19.1 W | 9/ 3/87 | 1850 GMT | 14 M | 1204 - 1826 PST | 1207 PST | 1827 PST | 347.1 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | | 33.421 | | 6.15 | | 0.6 | 0.30 | 0.1 | 0.00 | 0.54 | 0.13 | 99. | 5.0 | 5.5 | 5.2 | 0.51* |
| 10 | | 33.421 | | 6.14 | | 0.6 | 0.30 | 0.1 | 0.00 | 0.51 | 0.14 | 36. | 6.7 | 9.1 | 7.9 | 0.21 |
| 12 | | 33.421 | | 6.16 | | 0.6 | 0.30 | 0.1 | 0.00 | 0.64 | 0.16 | 26. | 10.4 | 9.3 | 9.8 | 0.23 |
| 20 | | 33.425 | | 6.15 | | 0.6 | 0.30 | 0.1 | 0.00 | 0.89 | 0.30 | 13. | 14.2 | 11.8 | 13.0 | 0.19 |
| 41 | | 33.449 | | 5.62 | | 4.0 | 0.55 | 2.4 | 0.11 | 0.85 | 0.34 | 1.4 | 1.5 | 1.5 | 1.5 | 0.21 |
| 59 | | 33.538 | | 4.37 | | 12.3 | 1.15 | 12.3 | 0.08 | 0.38 | 0.39 | 0.20 | 0.76 | 0.77 | 0.77 | 0.09 |

*THE DARK VALUE APPEARS TO BE TOO HIGH. AS A RESULT, UPTAKES MAY BE TOO LOW.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 87 84

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|----------------|------------|-------|-------|--------|----------|------|------|
| 32 12.6 N | 121 58.1 W | 10/ 3/87 | 1939 GMT | 20 M | 1224 - 1840 PST | 1218 PST | 1839 PST | 158.5 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 14.53 | 33.245 | 24.720 | 5.97 | 102.8 | 2.2 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 99. | 1.2 | 1.7 | 1.4 | 0.24 |
| 12 | 14.33 | 33.245 | 24.763 | 5.98 | 102.6 | 2.2 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 36. | 3.2 | 3.4 | 3.3 | 0.24 |
| 17 | 14.28 | 33.245 | 24.774 | 5.98 | 102.5 | 2.1 | 0.38 | 0.2 | 0.00 | 0.19 | 0.04 | 26. | 2.9 | 2.9 | 2.9 | 0.26 |
| 26 | 14.15 | 33.245 | 24.801 | 6.02 | 102.9 | 2.1 | 0.38 | 0.2 | 0.00 | 0.20 | 0.05 | 13. | 2.5 | 2.2 | 2.3 | 0.26 |
| 56 | 13.57 | 33.269 | 24.940 | 5.82 | 98.3 | 2.9 | 0.47 | 1.3 | 0.14 | 0.34 | 0.18 | 1.4 | 1.9 | 2.2 | 2.0 | 0.31 |
| 80 | 11.48 | 33.369 | 25.421 | 4.87 | 78.7 | 9.5 | 1.02 | 10.9 | 0.02 | 0.11 | 0.11 | 0.20 | 0.27 | 0.20 | 0.24 | 0.16 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 49

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|----------------|------------|-------|-------|--------|----------|------|------|
| 32 48.0 N | 119 12.4 W | 7/ 3/87 | 1940 GMT | 15 M | 1207 - 1820 PST | 1207 PST | 1819 PST | 179.5 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 1 | 14.67 | 33.384 | 24.798 | 6.04 | 104.4 | 0.5 | 0.32 | 0.2 | 0.00 | 0.38 | 0.08 | 99. | 7.4 | 5.2 | 6.3 | 0.13 |
| 11 | 14.66 | 33.383 | 24.800 | 6.05 | 104.6 | 0.5 | 0.32 | 0.2 | 0.00 | 0.39 | 0.08 | 36. | 5.3 | 5.1 | 5.2 | 0.18 |
| 14 | 14.66 | 33.382 | 24.799 | 6.05 | 104.6 | 0.5 | 0.32 | 0.2 | 0.00 | 0.46 | 0.11 | 26. | 5.0 | 4.7 | 4.9 | 0.19 |
| 21 | 14.45 | 33.403 | 24.860 | 6.04 | 104.0 | 0.7 | 0.34 | 0.2 | 0.00 | 0.40 | 0.11 | 13. | 3.3 | 2.8 | 3.1 | 0.18 |
| 43 | 13.98 | 33.416 | 24.969 | 5.64 | 96.2 | 2.5 | 0.48 | 1.5 | 0.08 | 0.65 | 0.36 | 1.4 | 1.7 | 1.6 | 1.7 | 0.12 |
| 62 | 12.93 | 33.468 | 25.222 | 4.93 | 82.3 | 6.6 | 0.84 | 6.6 | 0.17 | 0.70 | 0.54 | 0.20 | 0.36 | 0.40 | 0.38 | 0.09 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 90 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|----------------|------------|-------|-------|--------|----------|------|------|
| 31 25.1 N | 121 59.5 W | 6/ 3/87 | 1925 GMT | 22 M | 1216 - 1830 PST | 1219 PST | 1831 PST | 252.3 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 14.38 | 33.248 | 24.755 | 5.96 | 102.3 | 2.6 | 0.38 | 0.2 | 0.00 | 0.32 | 0.08 | 99. | 1.1 | 0.91 | 1.0 | 0.09 |
| 14 | 14.32 | 33.248 | 24.768 | 5.96 | 102.2 | 2.2 | 0.38 | 0.2 | 0.00 | 0.31 | 0.09 | 36. | 4.4 | 4.5 | 4.4 | 0.11 |
| 18 | 14.32 | 33.248 | 24.768 | 5.96 | 102.2 | 2.2 | 0.40 | 0.2 | 0.00 | 0.31 | 0.09 | 26. | 4.1 | 4.2 | 4.2 | 0.12 |
| 29 | 14.33 | 33.248 | 24.766 | 5.96 | 102.2 | 2.7 | 0.38 | 0.2 | 0.00 | 0.34 | 0.10 | 13. | 4.2 | 4.2 | 4.2 | 0.12 |
| 60 | 14.09 | 33.271 | 24.835 | 5.91 | 100.9 | 2.7 | 0.40 | 0.4 | 0.07 | 0.49 | 0.19 | 1.4 | 2.5 | 3.0 | 2.8 | 0.10 |
| 88 | 12.60 | 33.146 | 25.038 | 5.57 | 92.1 | 4.8 | 0.69 | 4.5 | 0.03 | 0.15 | 0.11 | 0.20 | 0.24 | 0.24 | 0.24 | 0.05 |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 45

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI | DEPTH | INCUBATION TIME | | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | |
|----------------------|-------|----------|-----------|------|-----------|------|--------|-------|-----------------|------|----------|----------|----------|------------|----------|------|
| 32 20.9 N 118 33.3 W | | | 3/ 3/87 | | 1904 GMT | | 25 | M | 1159 - 1815 PST | | 1206 PST | 1819 PST | | 473.3 MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | |
| 1 | 14.90 | 33.398 | 24.759 | 6.02 | 104.6 | 1.2 | 0.34 | 0.3 | 0.00 | 0.33 | 0.06 | 99. | 3.9 | 4.2 | 4.1 | 0.22 |
| 17 | 14.44 | 33.394 | 24.855 | 6.01 | 103.4 | 1.2 | 0.34 | 0.3 | 0.01 | 0.40 | 0.09 | 36. | 7.2 | 6.9 | 7.1 | 0.26 |
| 22 | 14.39 | 33.394 | 24.866 | 6.00 | 103.1 | 1.2 | 0.34 | 0.2 | 0.00 | 0.37 | 0.09 | 26. | 7.9 | 7.4 | 7.6 | 0.24 |
| 35 | 14.36 | 33.394 | 24.873 | 6.02 | 103.4 | 1.1 | 0.34 | 0.2 | 0.00 | 0.43 | 0.10 | 13. | 5.8 | 6.1 | 6.0 | 0.22 |
| 71 | 13.15 | 33.439 | 25.156 | 5.10 | 85.5 | 5.9 | 0.74 | 5.0 | 0.12 | 0.79 | 0.74 | 1.4 | 4.3 | 4.1 | 4.2 | 0.20 |
| 103 | 10.98 | 33.542 | 25.646 | 4.22 | 67.6 | 13.9 | 1.28 | 14.3 | 0.02 | 0.16 | 0.23 | 0.20 | 0.24 | 0.22 | 0.23 | 0.06 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 80

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI | DEPTH | INCUBATION TIME | | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | |
|----------------------|-------|----------|-----------|------|-----------|-----|--------|-------|-----------------|------|----------|----------|----------|------------|----------|------|
| 31 10.8 N 120 55.1 W | | | 4/ 3/87 | | 1922 GMT | | 27 | M | 1214 - 1831 PST | | 1216 PST | 1831 PST | | 105.5 MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | |
| 1 | 15.37 | 33.366 | 24.632 | 5.78 | 101.3 | 1.6 | 0.34 | 0.2 | 0.00 | 0.08 | 0.02 | 99. | 1.1 | 1.2 | 1.1 | 0.07 |
| 18 | 15.34 | 33.366 | 24.639 | 5.79 | 101.4 | 1.6 | 0.35 | 0.2 | 0.00 | 0.08 | 0.02 | 36. | 0.97 | 0.87 | 0.92 | 0.09 |
| 24 | 15.34 | 33.364 | 24.638 | 5.78 | 101.2 | 1.6 | 0.34 | 0.2 | 0.00 | 0.08 | 0.02 | 26. | 0.89 | 0.90 | 0.89 | 0.09 |
| 38 | 15.33 | 33.366 | 24.642 | 5.79 | 101.4 | 1.5 | 0.33 | 0.2 | 0.00 | 0.09 | 0.02 | 13. | 0.63 | 0.72 | 0.68 | 0.08 |
| 76 | 14.79 | 33.323 | 24.728 | 5.84 | 101.1 | 1.9 | 0.37 | 0.2 | 0.01 | 0.45 | 0.21 | 1.4 | 1.4 | 1.6 | 1.5 | 0.07 |
| 111 | 12.50 | 33.377 | 25.237 | 5.12 | 84.6 | 6.4 | 0.79 | 6.8 | 0.02 | 0.22 | 0.19 | 0.20 | 0.17 | 0.19 | 0.18 | 0.03 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8703

STATION 93 120

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI | DEPTH | INCUBATION TIME | | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | |
|----------------------|-------|----------|-----------|------|-----------|-----|--------|-------|-----------------|------|----------|----------|----------|------------|----------|------|
| 29 50.8 N 123 35.2 W | | | 5/ 3/87 | | 1845 GMT | | 27 | M | 1220 - 1839 PST | | 1226 PST | 1841 PST | | 110.1 MG | C/M2 | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MGC/M3) | |
| 0 | 16.83 | 33.748 | 24.594 | 5.58 | 100.9 | 1.6 | 0.27 | 0.2 | 0.00 | 0.09 | 0.02 | 99. | 0.73 | 0.72 | 0.73 | 0.06 |
| 18 | 16.83 | 33.755 | 24.600 | 5.58 | 100.8 | 1.5 | 0.27 | 0.2 | 0.00 | 0.10 | 0.02 | 36. | 1.4 | 1.3 | 1.3 | 0.06 |
| 24 | 16.81 | 33.754 | 24.604 | 5.59 | 101.0 | 1.7 | 0.27 | 0.2 | 0.00 | 0.10 | 0.03 | 26. | 1.3 | 1.3 | 1.3 | 0.07 |
| 36 | 16.83 | 33.757 | 24.603 | 5.59 | 101.0 | 1.4 | 0.27 | 0.2 | 0.00 | 0.11 | 0.02 | 13. | 1.3 | 1.4 | 1.4 | 0.06 |
| 76 | 16.93 | 33.799 | 24.613 | 5.56 | 100.7 | 1.3 | 0.26 | 0.2 | 0.00 | 0.15 | 0.05 | 1.4 | 0.92 | 1.0 | 0.97 | 0.05 |
| 110 | 16.88 | 33.813 | 24.637 | 5.55 | 100.4 | 1.5 | 0.26 | 0.2 | 0.00 | 0.16 | 0.07 | 0.20 | 0.22 | 0.24 | 0.23 | 0.03 |

Secchi Disk Observations

CalCOFI Cruise 8703

| Line | Sta. | Day | Mo | Local Time (+8: PST) | Secchi Depth (m) | Forel Water Color | Weather | Clouds Type/Amt |
|------|------|-----|----|----------------------------|------------------------|-------------------------|---------|--------------------|
| 77 | 49 | 16 | 3 | 0840 | 5 | 4 | 1 | CI 1/8 |
| 77 | 51 | 16 | 3 | 1116 | 8 | - | 1 | CU 1/8 |
| 77 | 55 | 16 | 3 | 1456 | 12 | 4 | 1 | AS 6/8 |
| 77 | 60 | 15 | 3 | 1143 | 12 | - | 1 | CU 5/8 |
| 77 | 90 | 14 | 3 | 1610 | 23 | 3 | 6 | SC 8/8 |
| 77 | 100 | 14 | 3 | 1130 | 38 | 2 | 1 | CC 7/8 |
| 80 | 70 | 13 | 3 | 1130 | 28 | 2 | 1 | CC 2/8 |
| 80 | 80 | 13 | 3 | 1744 | 18 | 3 | 1 | CC 3/8 |
| 83 | 40.6 | 12 | 3 | 1343 | 14 | 3 | 2 | ST 8/8 |
| 83 | 42 | 12 | 3 | 1115 | 12 | 4 | 2 | ST 8/8 |
| 83 | 70 | 11 | 3 | 1700 | 23 | 3 | 1 | CI 4/8 |
| 83 | 80 | 11 | 3 | 1130 | 19 | 3 | 1 | SC 7/8 |
| 83 | 90 | 11 | 3 | 0657 | 23 | 2 | 1 | SC 6/8 |
| 87 | 33 | 8 | 3 | 1635 | 14 | 4 | 2 | CU 7/8 |
| 87 | 34 | 8 | 3 | 1755 | 21 | 3 | 1 | ST 7/8 |
| 87 | 45 | 9 | 3 | 1030 | 14 | 3 | 1 | SC 6/8 |
| 87 | 50 | 9 | 3 | 1250 | 15 | 3 | 1 | SC 6/8 |
| 87 | 55 | 9 | 3 | 1703 | 14 | 3 | 1 | SC 3/8 |
| 87 | 80 | 10 | 3 | 0830 | 19 | 2 | 1 | CU 4/8 |
| 87 | 83.6 | 10 | 3 | 1114 | 20 | 3 | 1 | CI 4/8 |
| 87 | 90 | 10 | 3 | 1412 | 25 | 3 | 1 | SC 1/8 |
| 90 | 28 | 8 | 3 | 1435 | 14 | 3 | 1 | CU 7/8 |
| 90 | 45 | 7 | 3 | 1315 | 15 | 3 | 2 | CU 8/8 |
| 90 | 49 | 7 | 3 | 1125 | 15 | 3 | 2 | CU 8/8 |
| 90 | 53 | 7 | 3 | 0815 | 17 | 3 | 1 | CU 7/8 |
| 90 | 80 | 6 | 3 | 1545 | 21 | 3 | 1 | CU 6/8 |
| 90 | 90 | 6 | 3 | 1110 | 22 | 3 | 6 | CU 2/8 |
| 90 | 120 | 5 | 3 | 1456 | 35 | 2 | 2 | SC 8/8 |
| 93 | 26.4 | 2 | 3 | 1530 | 11 | 4 | 1 | CS 6/8 |
| 93 | 26.7 | 2 | 3 | 1633 | 24 | 3 | 1 | CS 6/8 |
| 93 | 40 | 3 | 3 | 1050 | 26 | 3 | 1 | SC 6/8 |
| 93 | 45 | 3 | 3 | 1110 | 25 | 3 | 1 | SC 2/8 |
| 93 | 50 | 3 | 3 | 1520 | 36 | 3 | 1 | ST 2/8 |
| 93 | 80 | 4 | 3 | 1110 | 27 | 2 | 1 | SC 7/8 |
| 93 | 90 | 4 | 3 | 1522 | 18 | 2 | 2 | SC 8/8 |
| 93 | 120 | 5 | 3 | 1030 | 27 | 2 | 6 | CU 8/8 |

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

| Line | Sta. | Position | Date Mo/Day | Time (GMT) | | Water Volume Strained (m) | Max. Tow Depth (m) | Volume per 1000 m Strained | | |
|------|------|----------|----------------|------------|------|------------------------------|-----------------------|-------------------------------|------------|-----|
| | | | | Start | End | | | Total (cm) | Small (cm) | |
| 77 | 49 | 35 05.3N | 120 46.6W | 3/16 | 1743 | 1751 | 150 | 71 | 167 | 167 |
| 77 | 51 | 35 01.3N | 120 55.1W | 3/16 | 2055 | 2117 | 472 | 207 | 87 | 87 |
| 77 | 55 | 34 53.3N | 121 11.9W | 3/16 | 2350 | 0012 | 432 | 207 | 148 | 148 |
| 77 | 60 | 34 43.3N | 121 32.9W | 3/15 | 1905 | 1927 | 440 | 218 | 82 | 82 |
| 77 | 70 | 34 23.3N | 122 14.8W | 3/15 | 1200 | 1222 | 445 | 207 | 184 | 184 |
| 77 | 80 | 34 03.3N | 122 56.5W | 3/15 | 0635 | 0657 | 408 | 208 | 91 | 91 |
| 77 | 90 | 33 43.3N | 123 38.2W | 3/15 | 0110 | 0132 | 435 | 213 | 53 | 39 |
| 77 | 100 | 33 23.3N | 124 19.4W | 3/14 | 2005 | 2026 | 435 | 212 | 39 | 39 |
| 80 | 51 | 34 27.0N | 120 31.4W | 3/13 | 0753 | 0802 | 162 | 77 | 111 | 111 |
| 80 | 55 | 34 19.0N | 120 48.1W | 3/13 | 1143 | 1205 | 410 | 213 | 122 | 122 |
| 80 | 60 | 34 09.0N | 121 09.1W | 3/13 | 1537 | 1559 | 433 | 206 | 81 | 81 |
| 80 | 70 | 33 49.1N | 121 50.6W | 3/13 | 2138 | 2200 | 448 | 213 | 67 | 67 |
| 80 | 80 | 33 29.0N | 122 32.0W | 3/14 | 0304 | 0326 | 435 | 210 | 92 | 92 |
| 80 | 90 | 33 09.0N | 123 13.3W | 3/14 | 0909 | 0931 | 412 | 213 | 126 | 58 |
| 80 | 100 | 32 49.0N | 123 54.2W | 3/14 | 1429 | 1451 | 415 | 211 | 185 | 113 |
| 81.8 | 46.9 | 34 16.9N | 120 02.0W | 3/13 | 0337 | 0359 | 402 | 208 | 239 | 239 |
| 83 | 42 | 34 10.7N | 119 30.5W | 3/12 | 2047 | 2101 | 247 | 125 | 219 | 219 |
| 83 | 51 | 33 52.7N | 120 08.0W | 3/12 | 1503 | 1512 | 168 | 83 | 417 | 417 |
| 83 | 55 | 33 44.8N | 120 24.6W | 3/12 | 1143 | 1205 | 423 | 209 | 114 | 114 |
| 83 | 60 | 33 34.7N | 120 45.3W | 3/12 | 0728 | 0750 | 418 | 205 | 103 | 103 |
| 83 | 70 | 33 14.7N | 121 26.6W | 3/12 | 0209 | 0231 | 424 | 206 | 101 | 101 |
| 83 | 80 | 32 54.7N | 122 07.7W | 3/11 | 2050 | 2112 | 451 | 208 | 55 | 55 |
| 83 | 90 | 32 34.7N | 122 48.7W | 3/11 | 1519 | 1541 | 439 | 207 | 48 | 48 |
| 83 | 100 | 32 14.6N | 123 29.5W | 3/11 | 1012 | 1034 | 456 | 212 | 94 | 94 |
| 87 | 33 | 33 53.3N | 118 29.5W | 3/9 | 0120 | 0126 | 100 | 49 | 150 | 150 |
| 87 | 35 | 33 49.4N | 118 37.7W | 3/9 | 0430 | 0452 | 393 | 211 | 92 | 92 |
| 87 | 39.5 | 33 40.4N | 118 56.4W | 3/9 | 1208 | 1230 | 392 | 206 | 222 | 99 |
| 87 | 45 | 33 29.4N | 119 19.1W | 3/9 | 1725 | 1747 | 398 | 214 | 98 | 98 |
| 87 | 50 | 33 19.4N | 119 39.8W | 3/9 | 2305 | 2313 | 133 | 71 | 143 | 143 |
| 87 | 55 | 33 09.5N | 120 00.5W | 3/10 | 0234 | 0256 | 409 | 211 | 108 | 108 |
| 87 | 60 | 32 59.4N | 120 21.0W | 3/10 | 0657 | 0719 | 390 | 215 | 100 | 100 |
| 87 | 70 | 32 39.4N | 121 02.0W | 3/10 | 1208 | 1230 | 426 | 205 | 108 | 108 |
| 87 | 80 | 32 19.4N | 121 43.0W | 3/10 | 1727 | 1749 | 410 | 210 | 80 | 80 |
| 87 | 90 | 31 59.4N | 122 23.7W | 3/10 | 2328 | 2350 | 443 | 207 | 45 | 45 |
| 87 | 100 | 31 39.4N | 123 04.1W | 3/11 | 0423 | 0445 | 428 | 210 | 93 | 93 |
| 90 | 28 | 33 29.1N | 117 46.1W | 3/8 | 1535 | 1541 | 113 | 56 | 88 | 88 |
| 90 | 35 | 33 15.1N | 118 15.0W | 3/8 | 0743 | 0805 | 394 | 213 | 76 | 76 |
| 90 | 37 | 33 11.2N | 118 23.3W | 3/8 | 0426 | 0448 | 397 | 218 | 83 | 83 |
| 90 | 45 | 32 55.1N | 118 56.1W | 3/7 | 2327 | 2349 | 413 | 212 | 107 | 107 |
| 90 | 53 | 32 39.2N | 119 28.9W | 3/7 | 1705 | 1727 | 427 | 206 | 73 | 73 |
| 90 | 60 | 32 25.1N | 119 57.7W | 3/7 | 1225 | 1247 | 424 | 206 | 120 | 120 |
| 90 | 70 | 32 05.2N | 120 38.3W | 3/7 | 0616 | 0638 | 433 | 211 | 48 | 48 |
| 90 | 80 | 31 45.1N | 121 18.9W | 3/7 | 0046 | 0108 | 439 | 214 | 27 | 27 |
| 90 | 90 | 31 25.1N | 121 59.5W | 3/6 | 1935 | 1957 | 439 | 209 | 581 | 57 |
| 90 | 100 | 31 05.1N | 122 39.8W | 3/6 | 1255 | 1317 | 422 | 211 | 195 | 195 |
| 90 | 110 | 30 45.1N | 123 19.9W | 3/6 | 0651 | 0713 | 424 | 217 | 201 | 35 |
| 90 | 120 | 30 25.1N | 123 59.9W | 3/6 | 0033 | 0055 | 437 | 212 | 16 | 16 |
| 93 | 26.7 | 32 57.3N | 117 18.3W | 3/3 | 0139 | 0201 | 415 | 206 | 63 | 63 |
| 93 | 28 | 32 54.8N | 117 23.7W | 3/3 | 0345 | 0407 | 393 | 209 | 69 | 69 |
| 93 | 30 | 32 50.8N | 117 31.9W | 3/3 | 0637 | 0659 | 383 | 216 | 60 | 60 |
| 93 | 35 | 32 40.8N | 117 52.6W | 3/3 | 1230 | 1252 | 401 | 207 | 60 | 60 |
| 93 | 40 | 32 31.0N | 118 12.7W | 3/3 | 1620 | 1642 | 385 | 214 | 49 | 49 |
| 93 | 45 | 32 20.9N | 118 33.3W | 3/3 | 2040 | 2102 | 414 | 201 | 101 | 101 |
| 93 | 50 | 32 10.8N | 118 53.6W | 3/4 | 0035 | 0057 | 379 | 211 | 82 | 82 |
| 93 | 55 | 32 00.5N | 119 14.0W | 3/4 | 0356 | 0418 | 382 | 215 | 110 | 110 |
| 93 | 60 | 31 50.8N | 119 34.2W | 3/4 | 0744 | 0807 | 408 | 217 | 54 | 54 |
| 93 | 70 | 31 30.6N | 120 14.8W | 3/4 | 1302 | 1324 | 421 | 214 | 50 | 50 |
| 93 | 80 | 31 10.8N | 120 55.1W | 3/4 | 1829 | 1851 | 430 | 216 | 46 | 46 |
| 93 | 90 | 30 50.8N | 121 35.4W | 3/5 | 0028 | 0050 | 446 | 210 | 56 | 56 |
| 93 | 100 | 30 30.7N | 122 15.4W | 3/5 | 0623 | 0645 | 440 | 210 | 64 | 50 |
| 93 | 110 | 30 10.8N | 122 55.4W | 3/5 | 1209 | 1231 | 439 | 209 | 34 | 34 |
| 93 | 120 | 29 50.8N | 123 35.2W | 3/5 | 1755 | 1817 | 442 | 216 | 14 | 14 |

FIGURES

Cruise 8705

1. CalCOFI Cruise 8705 track and station positions.
2. Horizontal distribution of chlorophyll-a at 10 meters.
3. Horizontal distribution of dynamic height anomaly (0 over 500 m). 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).
4. Horizontal distribution of sigma-theta at 10 meters.
5. Horizontal distribution of temperature at 10 meters.
6. Horizontal distribution of salinity at 10 meters.
7. Horizontal distribution of dynamic height anomaly (200 over 500 m).
8. Horizontal distribution of sigma-theta at 200 meters.
9. Horizontal distribution of temperature at 200 meters.
10. Horizontal distribution of salinity at 200 meters.

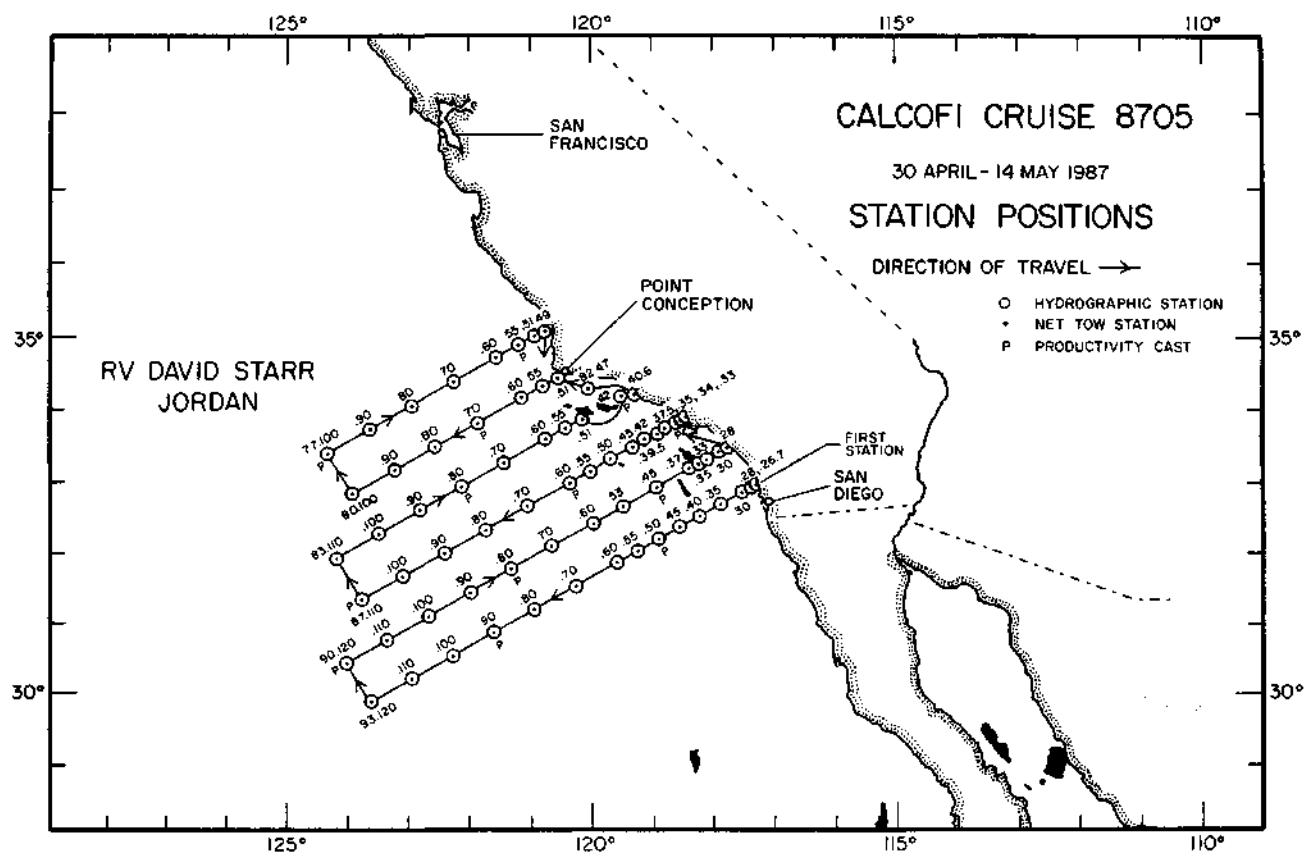


FIGURE 1

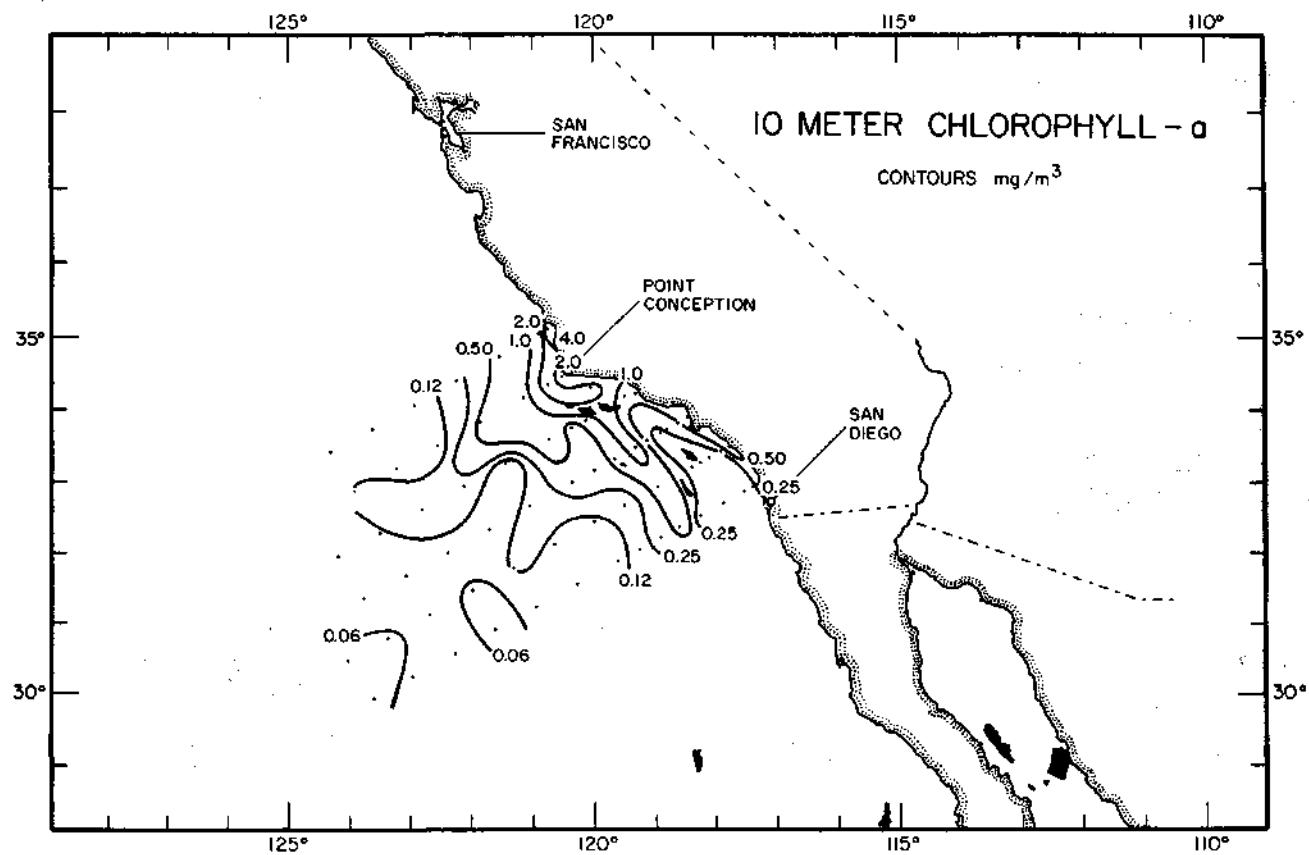


FIGURE 2

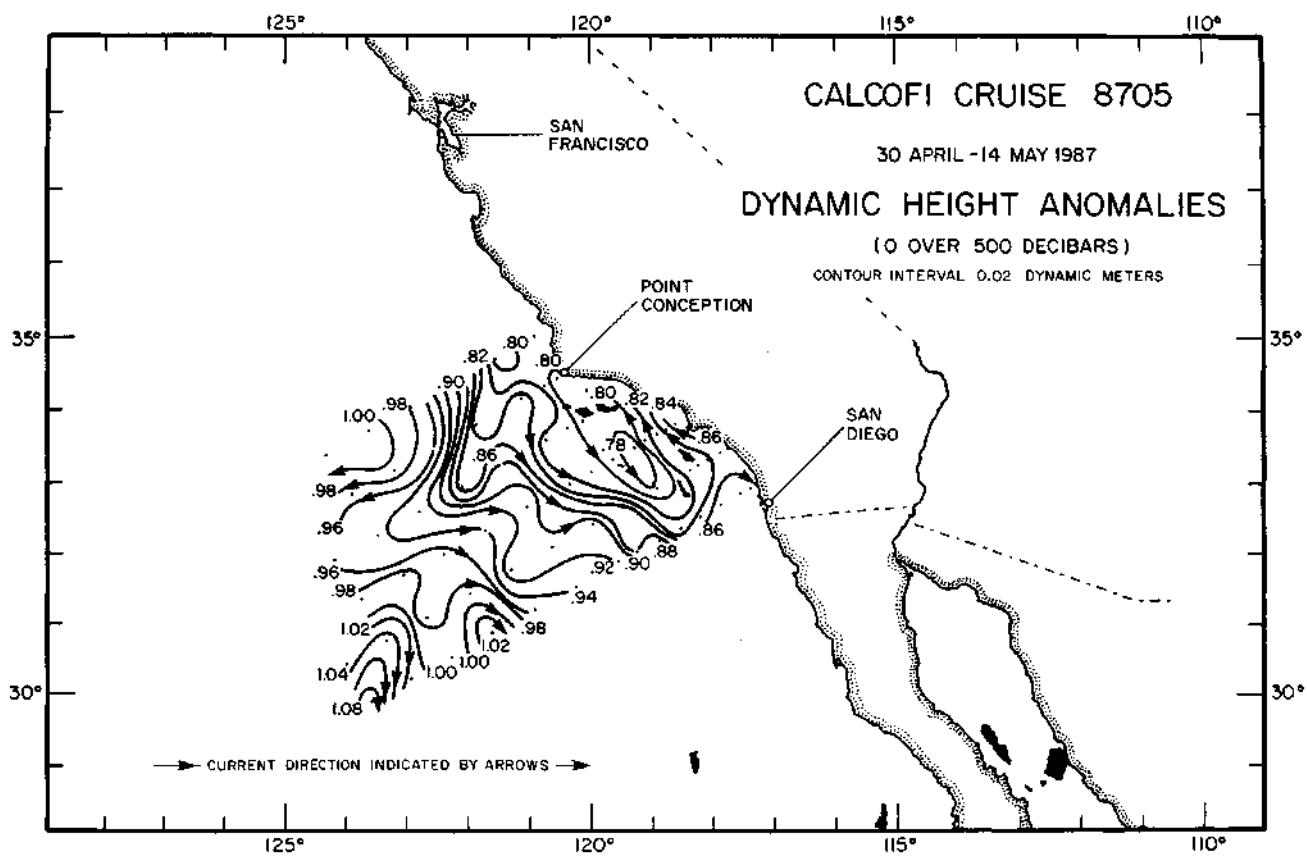


FIGURE 3

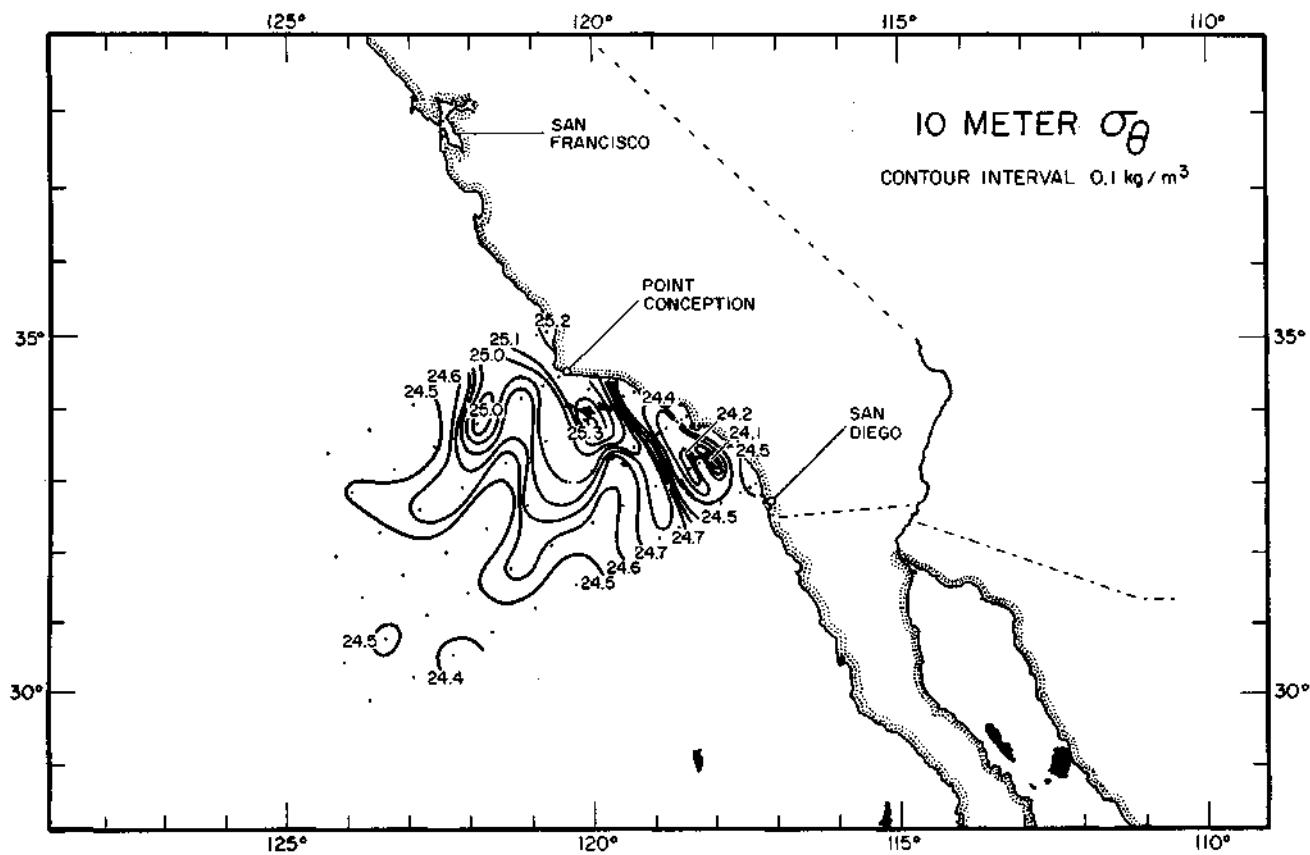


FIGURE 4

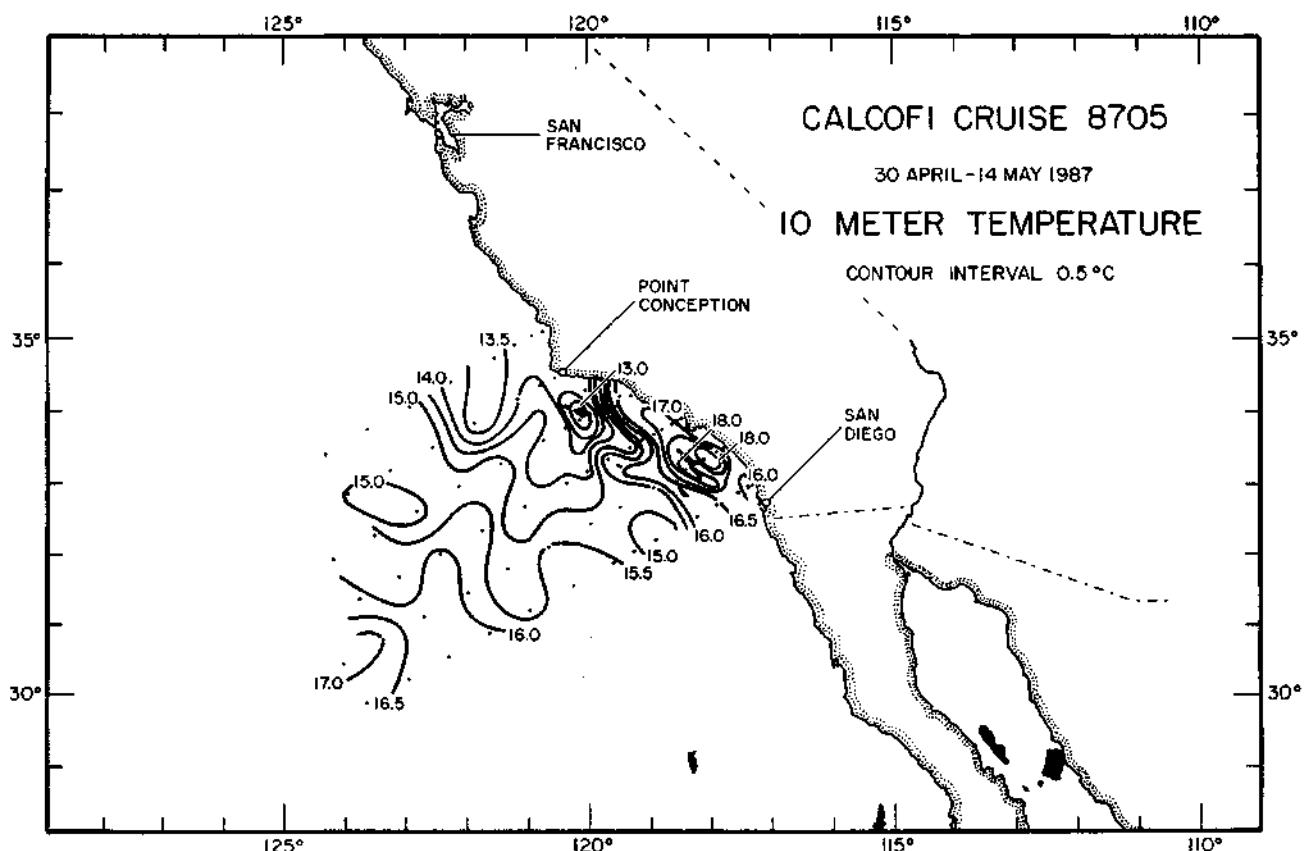


FIGURE 5

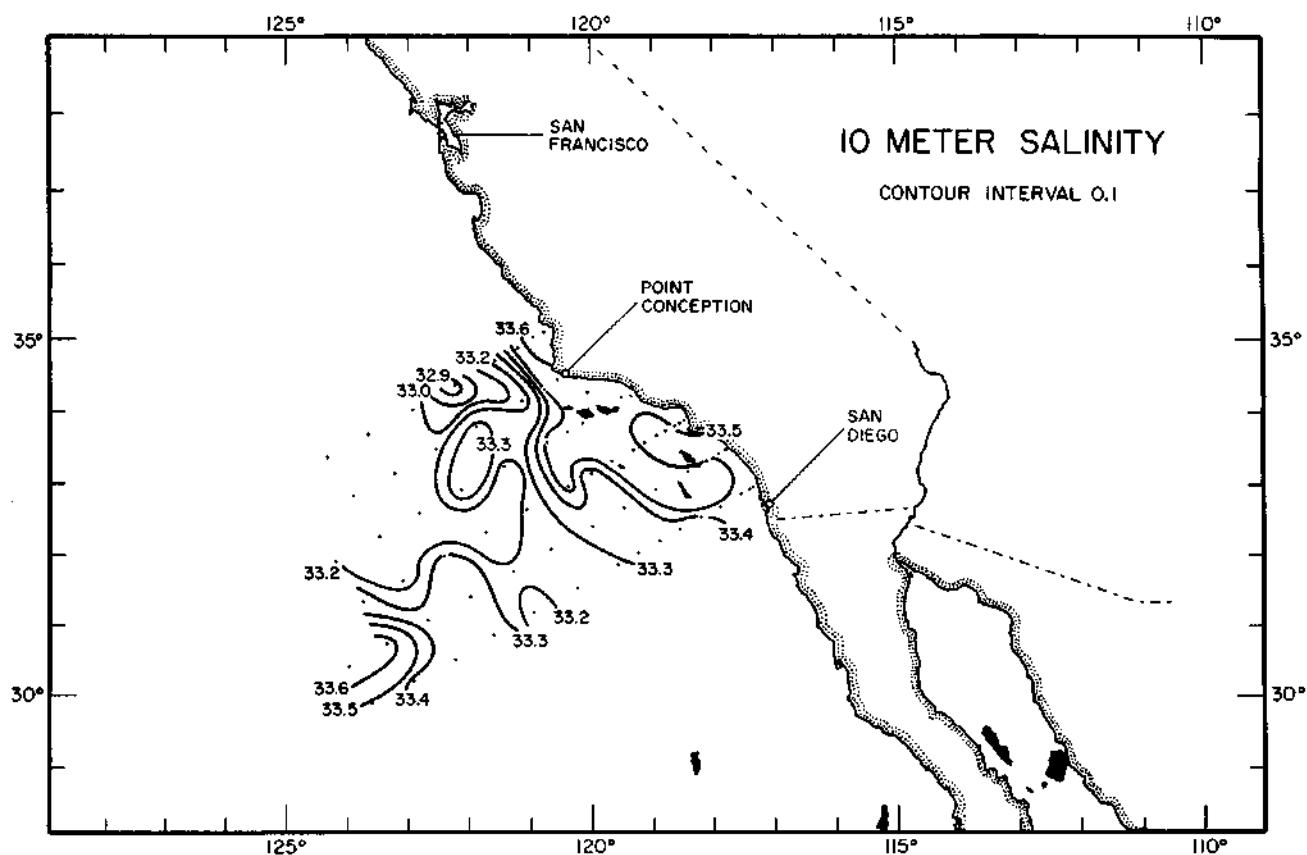


FIGURE 6

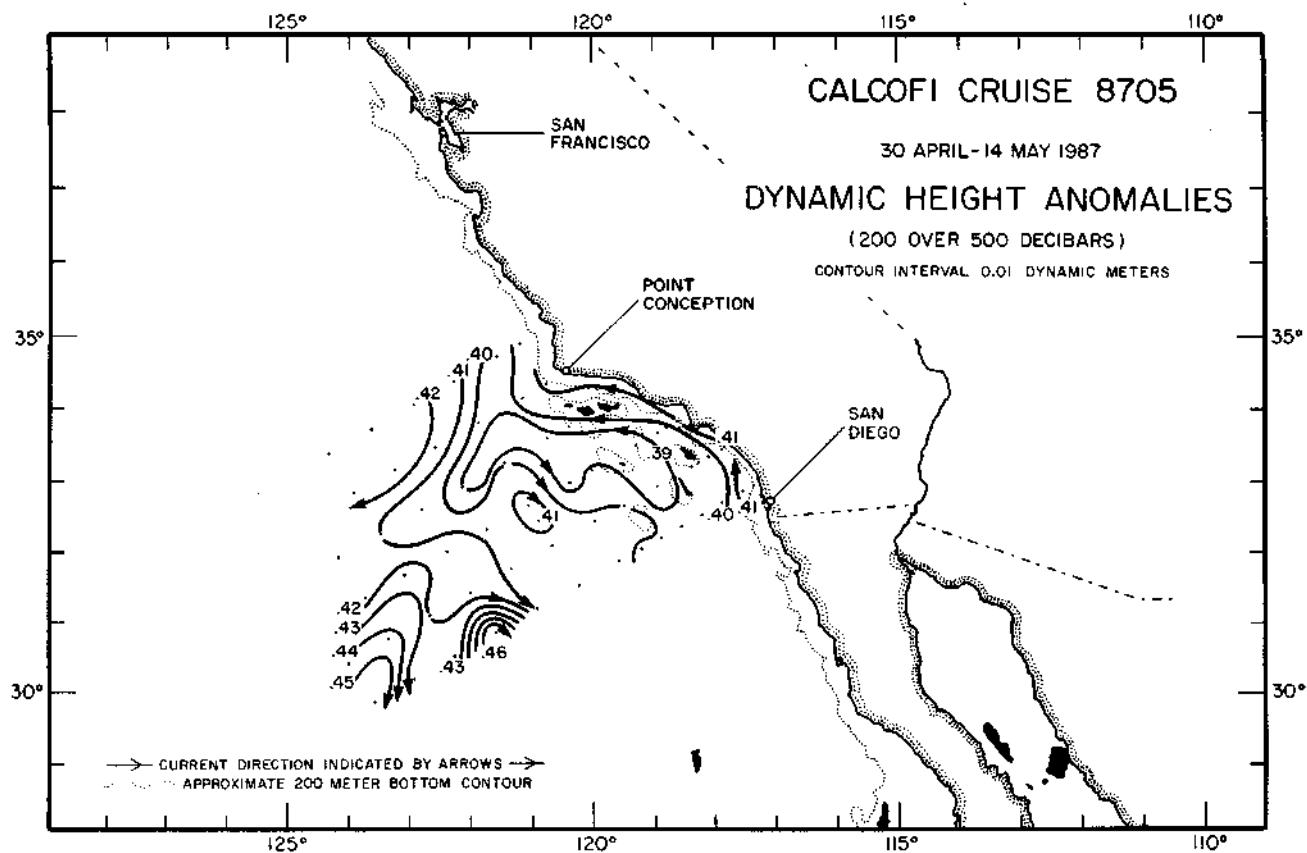


FIGURE 7

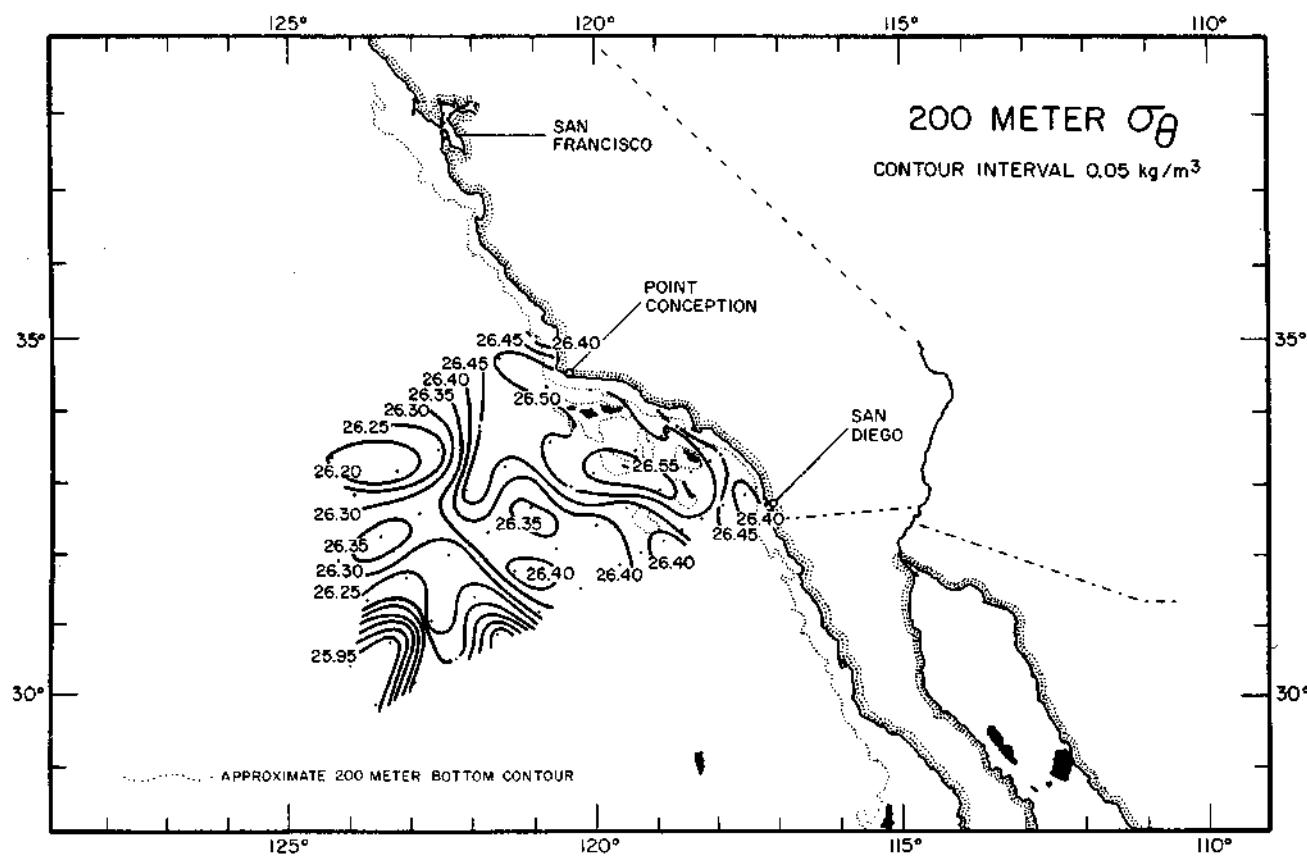


FIGURE 8

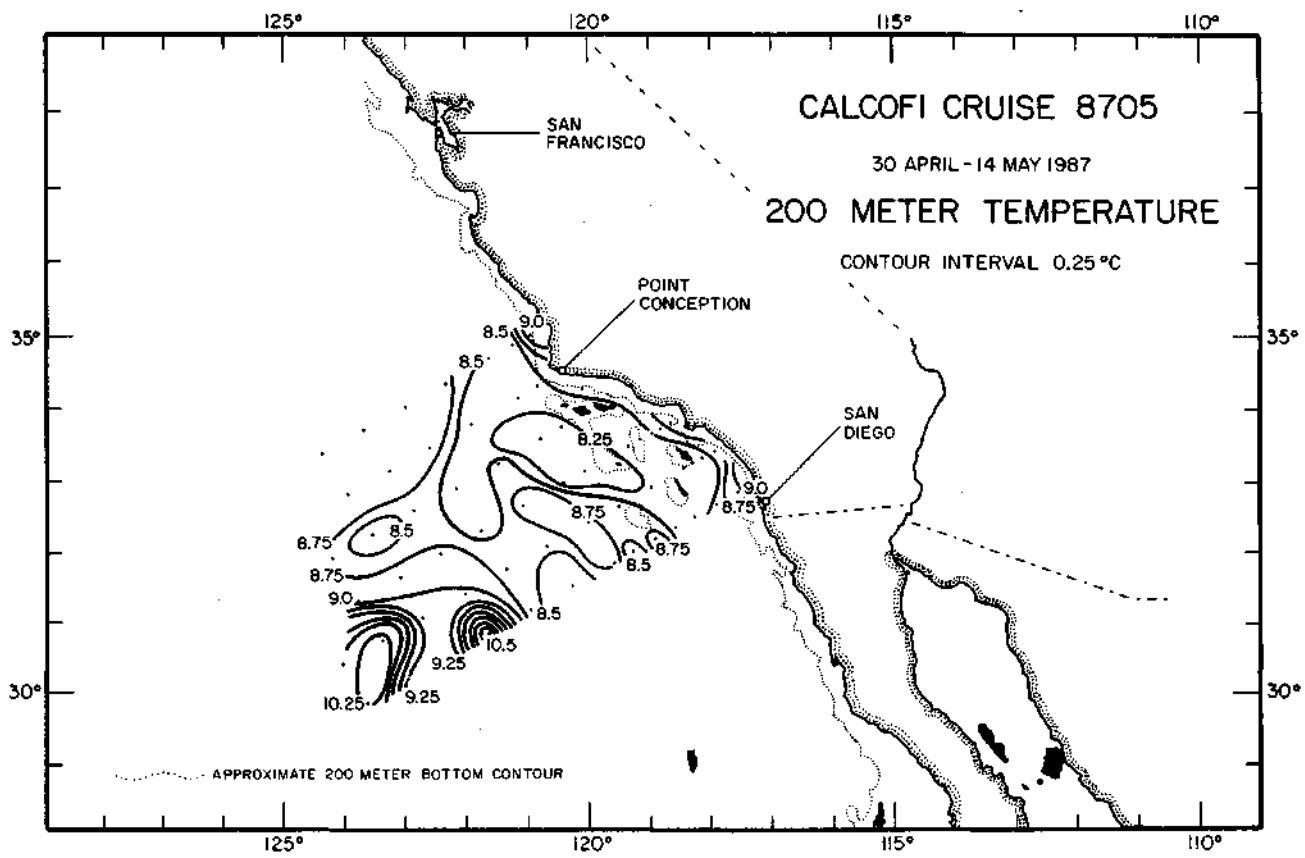


FIGURE 9

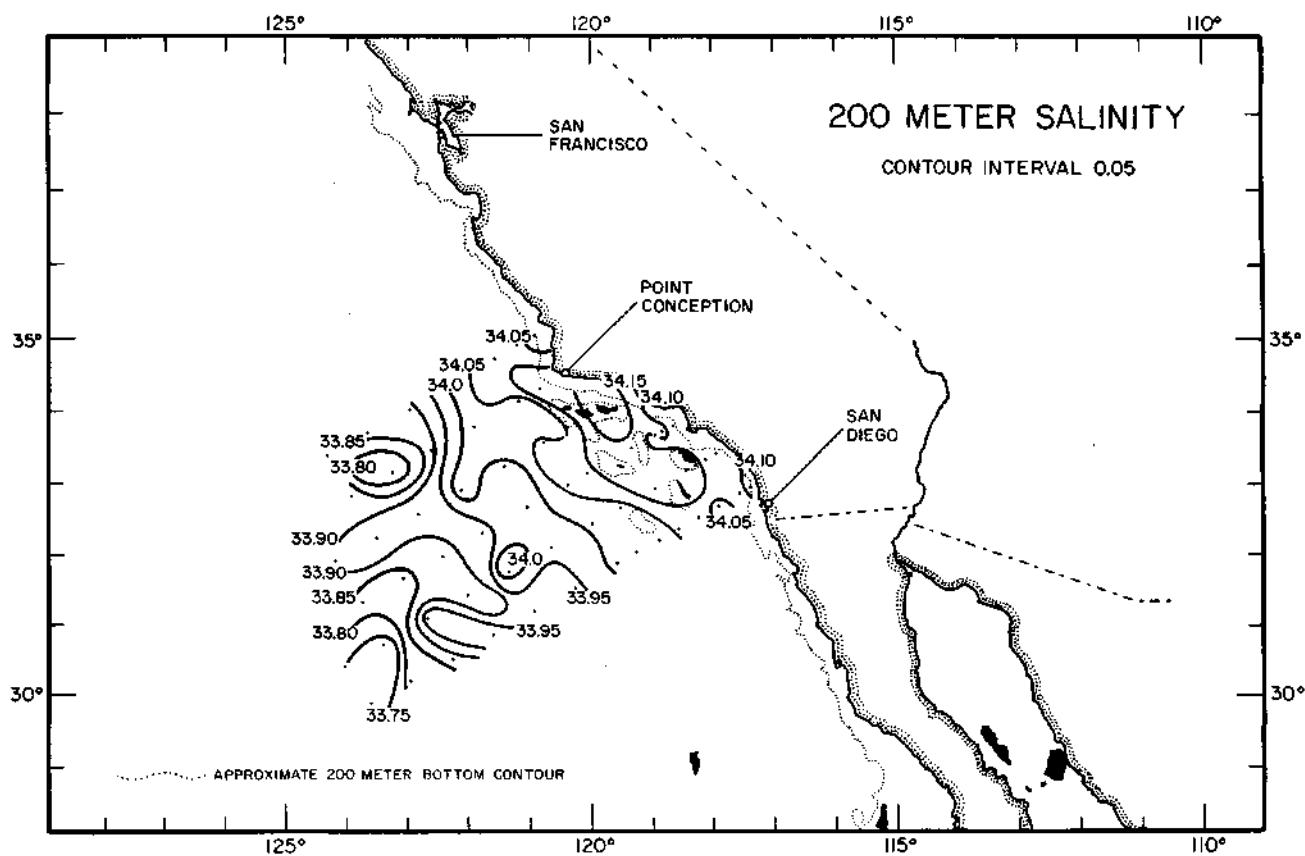


FIGURE 10

PERSONNEL

Cruise 8705

SHIP'S CAPTAIN

Milton Roll, RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | |
|----------------------------------|--|
| Flerx, William C. (in charge) | Fishery Biologist, NMFS |
| Abramenkoff, Dimitry N. | Fishery Biologist, NMFS |
| Anderson, George C. | Staff Research Associate, SIO |
| Butler, Steve B. | Fishery Biologist, NMFS |
| Cunha, Maria Emilia | Fishery Research Assistant, INIP, Portugal |
| Dotson, Ronald C. | Fishery Biologist, NMFS |
| Gruber, Dennis W. | Marine Technician, SIO |
| Hester, Arthur W. | Staff Research Associate, SIO |
| Meneses, Isabel | Fishery Research Assistant, INIP, Portugal |
| Nolan, Ann P. | Volunteer, SIO |
| Veit, Richard R. | Graduate Student, UCI |
| Whelan, Julie A. | Engineering Aid, SIO |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 49

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 35 5.3 N | 120 46.6 W | 13/05/87 | 2346 GMT | 73 M | 240 06 KT | 280 04 04 | 2 | 1013.5 MB | 15.0 C | 13.8 C | 8/8 | ST | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | NO3 | NO2 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UG/L | UG/L | | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 0 ISL | 14.95 | 14.95 | 33.693 | 24.976 | 297.0 | 0.000 | 7.13 | 124.2 | 4.8 | 0.34 | 0.7 | 0.08 | 2.07 | 0.12 | 0 | |
| 1 1 | 14.95 | 14.95 | 33.693 | 24.976 | 297.1 | 0.003 | 7.13 | 124.2 | 4.8 | 0.34 | 0.7 | 0.08 | 2.07 | 0.12 | 1 | |
| 1 10 ISL | 13.65 | 13.65 | 33.687 | 25.246 | 271.6 | 0.029 | 6.76 | 114.7 | 6.5 | 0.53 | 2.4 | 0.14 | 5.44 | 0.53 | 10 | |
| 1 11 | 13.46 | 13.46 | 33.687 | 25.284 | 268.0 | 0.031 | 6.68 | 112.9 | 6.8 | 0.57 | 2.8 | 0.15 | 5.84 | 0.59 | 11 | |
| 1 20 ISL | 12.73 | 12.73 | 33.673 | 25.419 | 255.4 | 0.055 | 5.60 | 93.2 | 10.5 | 0.91 | 7.5 | 0.34 | 4.16 | 0.63 | 20 | |
| 1 21 | 12.67 | 12.67 | 33.671 | 25.429 | 254.5 | 0.057 | 5.47 | 90.9 | 10.9 | 0.95 | 8.1 | 0.36 | 3.82 | 0.63 | 21 | |
| 1 30 ISL | 12.07 | 12.07 | 33.674 | 25.547 | 243.5 | 0.080 | 4.76 | 78.1 | 13.5 | 1.20 | 11.8 | 0.56 | 1.73 | 0.50 | 30 | |
| 1 32 | 11.96 | 11.96 | 33.676 | 25.570 | 241.4 | 0.085 | 4.65 | 76.1 | 13.9 | 1.24 | 12.4 | 0.59 | 1.35 | 0.48 | 32 | |
| 1 41 | 11.68 | 11.67 | 33.685 | 25.629 | 236.0 | 0.106 | 4.41 | 71.8 | 15.2 | 1.33 | 13.6 | 0.61 | 0.89 | 0.66 | 41 | |
| 1 50 ISL | 11.02 | 11.01 | 33.725 | 25.781 | 221.7 | 0.127 | 3.70 | 59.4 | 19.9 | 1.59 | 17.3 | 0.42 | 0.50 | 0.71 | 50 | |
| 1 51 | 10.95 | 10.94 | 33.730 | 25.797 | 220.2 | 0.129 | 3.63 | 58.2 | 20.4 | 1.62 | 17.7 | 0.40 | 0.47 | 0.72 | 51 | |
| 1 60 | 10.94 | 10.93 | 33.744 | 25.810 | 219.2 | 0.149 | 3.58 | 57.3 | 21.8 | 1.69 | 17.7 | 0.46 | 0.46 | 0.91 | 60 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 35 1.3 N | 120 55.1 W | 13/05/87 | 2142 GMT | 243 M | 260 09 KT | 300 05 05 | 2 | 1013.2 MB | 15.5 C | 15.9 C | 8/8 | ST | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | NO3 | NO2 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UG/L | UG/L | | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 0 ISL | 14.66 | 14.66 | 33.618 | 24.980 | 296.6 | 0.000 | 6.34 | 109.7 | 7.3 | 0.48 | 2.0 | 0.09 | 1.31 | 0.11 | 0 | |
| 1 1 | 14.66 | 14.66 | 33.618 | 24.981 | 296.7 | 0.003 | 6.34 | 109.7 | 7.3 | 0.48 | 2.0 | 0.09 | 1.31 | 0.11 | 1 | |
| 1 10 ISL | 13.87 | 13.87 | 33.608 | 25.139 | 281.8 | 0.029 | 5.88 | 100.1 | 8.7 | 0.67 | 5.0 | 0.21 | 1.06 | 0.13 | 10 | |
| 20 ISL | 12.79 | 12.79 | 33.612 | 25.360 | 261.0 | 0.056 | 5.22 | 86.9 | 11.1 | 0.93 | 9.2 | 0.35 | 0.74 | 0.15 | 20 | |
| 30 ISL | 11.49 | 11.49 | 33.642 | 25.630 | 235.6 | 0.081 | 4.41 | 71.4 | 14.3 | 1.26 | 14.3 | 0.47 | 0.35 | 0.18 | 30 | |
| 1 32 | 11.20 | 11.20 | 33.652 | 25.691 | 229.8 | 0.086 | 4.23 | 68.1 | 15.0 | 1.33 | 15.5 | 0.50 | 0.27 | 0.19 | 32 | |
| 50 ISL | 10.44 | 10.43 | 33.740 | 25.894 | 210.9 | 0.125 | 3.54 | 56.1 | 20.0 | 1.59 | 19.7 | 0.25 | 0.18 | 0.20 | 50 | |
| 1 61 | 10.24 | 10.23 | 33.790 | 25.968 | 204.1 | 0.148 | 3.25 | 51.3 | 22.8 | 1.69 | 21.4 | 0.08 | 0.13 | 0.20 | 61 | |
| 75 ISL | 9.98 | 9.97 | 33.831 | 26.044 | 197.1 | 0.176 | 2.94 | 46.1 | 25.8 | 1.81 | 23.0 | 0.14 | 0.09 | 0.21 | 76 | |
| 1 82 | 9.89 | 9.88 | 33.846 | 26.071 | 194.7 | 0.190 | 2.84 | 44.5 | 26.8 | 1.85 | 23.5 | 0.18 | 0.07 | 0.21 | 83 | |
| 1 100 | 9.77 | 9.76 | 33.869 | 26.109 | 191.4 | 0.225 | 2.80 | 43.7 | 27.0 | 1.88 | 24.3 | 0.10 | 0.06 | 0.20 | 101 | |
| 1 119 | 9.65 | 9.64 | 33.893 | 26.148 | 188.1 | 0.261 | 2.70 | 42.1 | 28.3 | 1.92 | 24.7 | 0.06 | 0.07 | 0.26 | 120 | |
| 125 ISL | 9.63 | 9.62 | 33.897 | 26.155 | 187.6 | 0.272 | 2.69 | 41.9 | 28.6 | 1.93 | 24.8 | 0.06 | 0.06 | 0.24 | 126 | |
| 1 135 | 9.58 | 9.56 | 33.907 | 26.171 | 186.3 | 0.291 | 2.66 | 41.4 | 29.1 | 1.95 | 25.2 | 0.07 | 0.05 | 0.21 | 136 | |
| 1 144 | 9.49 | 9.47 | 33.929 | 26.203 | 183.4 | 0.307 | 2.56 | 39.7 | 30.0 | 1.99 | 25.8 | 0.05 | 0.05 | 0.21 | 145 | |
| 150 ISL | 9.37 | 9.35 | 33.953 | 26.242 | 179.9 | 0.318 | 2.50 | 38.7 | 31.0 | 2.03 | 26.3 | 0.06 | 0.04 | 0.18 | 151 | |
| 1 154 | 9.29 | 9.27 | 33.968 | 26.267 | 177.6 | 0.325 | 2.47 | 38.2 | 31.6 | 2.05 | 26.6 | 0.07 | 0.04 | 0.16 | 155 | |
| 1 164 | 9.25 | 9.23 | 33.972 | 26.276 | 176.8 | 0.343 | 2.45 | 37.8 | 31.8 | 2.05 | 26.7 | 0.05 | 0.03 | 0.13 | 165 | |
| 1 174 | 9.22 | 9.20 | | | | | | | | | | | | | 175 | |
| 1 184 | 9.09 | 9.07 | 34.013 | 26.334 | 171.7 | 0.378 | 2.29 | 35.3 | 34.6 | 2.13 | 27.5 | 0.05 | 0.03 | 0.13 | 185 | |
| 1 194 | 9.06 | 9.04 | 34.020 | 26.345 | 170.9 | 0.395 | 2.26 | 34.8 | 34.9 | 2.15 | 27.8 | 0.08 | 0.02 | 0.16 | 196 | |
| 200 ISL | 9.04 | 9.02 | 34.024 | 26.351 | 170.4 | 0.405 | 2.19 | 33.7 | 35.6 | 2.17 | 28.0 | 0.11 | 0.03 | 0.19 | 202 | |
| 1 205 | 9.02 | 9.00 | 34.027 | 26.357 | 170.0 | 0.414 | 2.13 | 32.7 | 36.1 | 2.19 | 28.1 | 0.14 | 0.03 | 0.22 | 207 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|-----------|--------|-----------|-----------|--------|------|-------|------|-------|--------|-------|
| 34 53.3 N | 121 11.9 W | 13/05/87 | 1759 GMT | 585 M | 320 12 KT | 300 04 06 | 4 | 1012.5 MB | 14.3 C | 13.8 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | NO3 | NO2 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UG/L | UG/L | | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 0 ISL | 14.09 | 14.09 | 33.605 | 25.091 | 286.1 | 0.000 | 6.26 | 107.1 | 9.3 | 0.54 | 3.2 | 0.04 | 0.99 | 0.22 | 0 | |
| 1 1 | 14.09 | 14.09 | 33.605 | 25.091 | 286.1 | 0.003 | 6.26 | 107.1 | 9.3 | 0.54 | 3.2 | 0.04 | 0.99 | 0.22 | 1 | |
| 10 ISL | 13.89 | 13.89 | 33.598 | 25.127 | 282.9 | 0.028 | 6.17 | 105.1 | 9.5 | 0.59 | 3.8 | 0.04 | 0.77 | 0.25 | 10 | |
| 1 13 | 13.75 | 13.75 | 33.596 | 25.155 | 280.4 | 0.037 | 6.10 | 103.6 | 9.5 | 0.61 | 4.3 | 0.04 | 0.68 | 0.27 | 13 | |
| 20 ISL | 13.30 | 13.30 | 33.604 | 25.253 | 271.3 | 0.056 | 5.86 | 98.6 | 9.8 | 0.74 | 5.8 | 0.11 | 0.67 | 0.34 | 20 | |
| 1 23 | 13.07 | 13.07 | 33.610 | 25.303 | 266.5 | 0.064 | 5.72 | 95.8 | 10.2 | 0.81 | 6.7 | 0.15 | 0.67 | 0.37 | 23 | |
| 30 ISL | 12.55 | 12.55 | 33.628 | 25.420 | 255.6 | 0.083 | 5.32 | 88.2 | 12.4 | 1.00 | 9.6 | 0.25 | 0.52 | 0.34 | 30 | |
| 1 33 | 12.34 | 12.34 | 33.633 | 25.464 | 251.5 | 0.090 | 5.16 | 85.1 | 13.2 | 1.07 | 10.7 | 0.29 | 0.46 | 0.33 | 33 | |
| 1 42 | 11.80 | 11.79 | 33.615 | 25.552 | 243.2 | 0.112 | 4.94 | 80.6 | 12.1 | 1.17 | 11.4 | 0.41 | 0.43 | 0.37 | 42 | |
| 50 ISL | 11.32 | 11.32 | 33.645 | 25.662 | 233.0 | 0.131 | 4.58 | 75.9 | 13.8 | 1.32 | 13.8 | 0.59 | 0.27 | 0.25 | 50 | |
| 1 53 | 11.15 | 11.14 | 33.661 | 25.708 | 228.7 | 0.138 | 4.41 | 70.9 | 14.9 | 1.38 | 15.0 | 0.61 | 0.21 | 0.19 | 53 | |
| 1 64 | 10.35 | 10.34 | 33.717 | 25.892 | 211.4 | 0.163 | 3.64 | 57.5 | 20.7 | 1.58 | 20.1 | 0.06 | 0.10 | 0.14 | 64 | |
| 1 73 | 10.16 | 10.15 | 33.775 | 25.970 | 204.1 | 0.181 | 3.31 | 52.1 | 23.2 | 1.66 | 21.4 | 0.03 | 0.07 | 0.14 | 74 | |
| 75 ISL | 10.09 | 10.08 | 33.787 | 25.991 | 202.2 | 0.185 | 3.26 | 51.3 | 23.7 | 1.68 | 21.7 | 0.03 | 0.06 | 0.13 | 76 | |
| 1 86 | 9.69 | 9.69 | 33.851 | 26.107 | 191.4 | 0.207 | 3.06 | 47.7 | 26.4 | 1.80 | 23.4 | 0.02 | 0.04 | 0.07 | 87 | |
| 100 ISL | 9.34 | 9.33 | 33.934 | 26.234 | 189.6 | 0.235 | 2.77 | 42.9 | 30.2 | 1 | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|----------|-----------|------------|-----------|----------|--------|--------|--------|---------|-----------|------|------|-----------|--------|--------|----------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SI03 | P04 | -N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 34 | 43.3 N | 121 32.9 W | 13/05/87 | 1446 | GMT | 926 M | 340 | 17 KT | 320 05 | 06 | 2 | 1012.5 MB | 13.8 C | 13.0 C | 8/8 SC |
| 0 | ISL | 13.31 | 13.31 | 33.235 | 24.965 | 298.1 | 0.000 | 6.20 | 104.1 | 4.8 | 0.58 | 2.9 | 0.12 | 0.78 | 0.18 0 |
| 1 | 1 | 13.31 | 13.31 | 33.235 | 24.965 | 298.2 | 0.003 | 6.20 | 104.1 | 4.8 | 0.58 | 2.9 | 0.12 | 0.78 | 0.18 1 |
| 1 | 10 ISL | 13.24 | 13.24 | 33.254 | 24.994 | 295.6 | 0.030 | 6.20 | 104.0 | 5.3 | 0.60 | 3.2 | 0.13 | 0.81 | 0.26 10 |
| 1 | 12 | 13.23 | 13.23 | 33.258 | 24.999 | 295.2 | 0.036 | 6.20 | 104.0 | 5.4 | 0.61 | 3.3 | 0.13 | 0.82 | 0.28 12 |
| 1 | 20 ISL | 12.58 | 12.58 | 33.327 | 25.180 | 278.1 | 0.059 | 6.05 | 100.1 | 8.1 | 0.83 | 5.6 | 0.17 | 0.60 | 0.26 20 |
| 1 | 21 | 12.48 | 12.48 | 33.335 | 25.206 | 275.7 | 0.061 | 6.02 | 99.4 | 8.5 | 0.86 | 6.0 | 0.18 | 0.57 | 0.26 21 |
| 1 | 30 ISL | 11.63 | 11.63 | 33.328 | 25.361 | 261.2 | 0.085 | 5.71 | 92.6 | 11.4 | 0.98 | 8.6 | 0.28 | 0.43 | 0.26 30 |
| 1 | 32 | 11.44 | 11.44 | 33.329 | 25.396 | 257.8 | 0.091 | 5.59 | 90.3 | 12.0 | 1.01 | 9.3 | 0.29 | 0.41 | 0.26 32 |
| 1 | 42 | 10.55 | 10.55 | 33.450 | 25.649 | 233.9 | 0.115 | 4.49 | 71.2 | 14.2 | 1.26 | 14.9 | 0.10 | 0.37 | 0.25 42 |
| 1 | 50 ISL | 10.32 | 10.31 | 33.515 | 25.740 | 225.5 | 0.134 | 4.17 | 65.8 | 16.0 | 1.38 | 17.1 | 0.05 | 0.25 | 0.18 50 |
| 1 | 52 | 10.30 | 10.29 | 33.531 | 25.755 | 224.1 | 0.138 | 4.11 | 64.8 | 16.6 | 1.41 | 17.5 | 0.05 | 0.22 | 0.17 52 |
| 1 | 61 | 10.19 | 10.18 | 33.638 | 25.858 | 214.5 | 0.158 | 3.56 | 56.1 | 20.6 | 1.60 | 20.5 | 0.03 | 0.08 | 0.19 61 |
| 1 | 70 | 9.96 | 9.95 | 33.726 | 25.966 | 204.5 | 0.177 | 3.21 | 50.3 | 22.8 | 1.72 | 22.3 | 0.02 | 0.04 | 0.18 71 |
| 1 | 75 ISL | 9.85 | 9.84 | 33.742 | 25.997 | 201.6 | 0.187 | 3.20 | 50.0 | 23.4 | 1.75 | 22.8 | 0.02 | 0.04 | 0.17 76 |
| 1 | 85 | 9.66 | 9.65 | 33.753 | 26.037 | 198.0 | 0.207 | 3.17 | 49.4 | 24.3 | 1.79 | 23.4 | 0.02 | 0.03 | 0.15 86 |
| 1 | 100 | 9.50 | 9.49 | 33.796 | 26.097 | 192.6 | 0.236 | 3.05 | 47.3 | 26.3 | 1.84 | 24.3 | 0.02 | 0.03 | 0.13 101 |
| 1 | 119 | 9.07 | 9.06 | 33.885 | 26.236 | 179.6 | 0.272 | 2.89 | 44.4 | 29.3 | 1.93 | 25.9 | 0.02 | 0.02 | 0.14 120 |
| 1 | 125 ISL | 8.99 | 8.98 | 33.912 | 26.270 | 176.5 | 0.282 | 2.81 | 43.1 | 30.3 | 1.96 | 26.4 | 0.02 | 0.02 | 0.14 126 |
| 1 | 144 | 8.82 | 8.80 | 33.985 | 26.354 | 168.8 | 0.315 | 2.53 | 38.7 | 33.5 | 2.06 | 27.8 | 0.02 | 0.02 | 0.13 145 |
| 1 | 150 ISL | 8.78 | 8.76 | 34.003 | 26.375 | 167.0 | 0.325 | 2.45 | 37.5 | 34.4 | 2.09 | 28.1 | 0.02 | 0.02 | 0.19 151 |
| 1 | 173 | 8.64 | 8.62 | 34.057 | 26.439 | 161.3 | 0.363 | 2.17 | 33.1 | 37.5 | 2.18 | 29.2 | 0.01 | 0.03 | 0.38 174 |
| 1 | 200 ISL | 8.38 | 8.36 | 34.096 | 26.510 | 155.1 | 0.406 | 1.97 | 29.9 | 41.0 | 2.30 | 30.6 | 0.01 | 0.02 | 0.17 202 |
| 1 | 203 | 8.35 | 8.33 | 34.100 | 26.518 | 154.4 | 0.410 | 1.95 | 29.5 | 41.4 | 2.31 | 30.7 | 0.01 | 0.02 | 0.15 205 |
| 1 | 231 | 8.05 | 8.03 | 34.139 | 26.594 | 147.6 | 0.452 | 1.67 | 25.1 | 46.0 | 2.43 | 31.9 | 0.04 | | 233 |
| 1 | 250 ISL | 7.91 | 7.88 | 34.156 | 26.628 | 144.6 | 0.480 | 1.52 | 22.8 | 48.6 | 2.50 | 32.6 | 0.04 | | 252 |
| 1 | 271 | 7.77 | 7.74 | 34.171 | 26.661 | 141.8 | 0.510 | 1.36 | 20.3 | 51.4 | 2.57 | 33.4 | 0.03 | | 273 |
| 1 | 300 ISL | 7.48 | 7.45 | 34.192 | 26.719 | 136.6 | 0.551 | 1.12 | 16.6 | 55.7 | 2.69 | 34.8 | 0.03 | | 302 |
| 1 | 326 | 7.21 | 7.18 | 34.207 | 26.769 | 132.1 | 0.586 | 0.93 | 13.7 | 59.5 | 2.78 | 36.0 | 0.03 | | 329 |
| 1 | 384 | 6.72 | 6.68 | 34.217 | 26.845 | 125.5 | 0.660 | 0.72 | 10.5 | 66.5 | 2.89 | 38.0 | 0.01 | | 387 |
| 1 | 400 ISL | 6.59 | 6.55 | 34.224 | 26.868 | 123.5 | 0.680 | 0.66 | 9.6 | 68.8 | 2.93 | 38.5 | 0.01 | | 403 |
| 1 | 449 | 6.22 | 6.18 | 34.251 | 26.938 | 117.2 | 0.739 | 0.48 | 6.9 | 75.6 | 3.03 | 40.0 | 0.00 | | 453 |
| 1 | 500 ISL | 5.99 | 5.95 | 34.290 | 26.999 | 112.0 | 0.798 | 0.37 | 5.3 | 80.8 | 3.10 | 40.8 | 0.00 | | 504 |
| 1 | 519 | 5.91 | 5.86 | 34.305 | 27.021 | 110.1 | 0.819 | 0.33 | 4.7 | 82.8 | 3.12 | 41.1 | 0.00 | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|----------|-----------|------------|-----------|----------|--------|--------|--------|---------|-----------|-----------|--------|--------|-------|--------|----------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 34 | 23.3 N | 122 14.8 W | 13/05/87 | 0946 | GMT | 4066 M | 340 | 18 KT | 4066 | 1013.1 MB | 14.8 C | 13.8 C | | | |
| 0 | ISL | 13.83 | 13.83 | 32.848 | 24.560 | 336.6 | 0.000 | 6.18 | 104.7 | 1.0 | 0.39 | 0.0 | 0.00 | 0.18 | 0.05 0 |
| 1 | 2 | 13.83 | 13.83 | 32.848 | 24.560 | 336.7 | 0.007 | 6.18 | 104.7 | 1.0 | 0.39 | 0.0 | 0.00 | 0.18 | 0.05 2 |
| 1 | 10 ISL | 13.83 | 13.83 | 32.850 | 24.562 | 336.8 | 0.034 | 6.19 | 104.9 | 0.9 | 0.39 | 0.0 | 0.00 | 0.18 | 0.06 10 |
| 1 | 12 | 13.83 | 13.83 | 32.851 | 24.562 | 336.7 | 0.040 | 6.19 | 104.9 | 0.9 | 0.39 | 0.0 | 0.00 | 0.18 | 0.06 12 |
| 1 | 20 ISL | 14.11 | 14.11 | 33.003 | 24.623 | 331.3 | 0.067 | 6.13 | 104.5 | 2.0 | 0.38 | 0.0 | 0.00 | 0.19 | 0.07 20 |
| 1 | 21 | 14.15 | 14.15 | 33.026 | 24.632 | 330.4 | 0.070 | 6.12 | 104.5 | 2.2 | 0.38 | 0.0 | 0.00 | 0.19 | 0.07 21 |
| 1 | 30 ISL | 14.17 | 14.17 | 33.194 | 24.758 | 318.7 | 0.100 | 6.04 | 103.2 | 2.6 | 0.36 | 0.0 | 0.00 | 0.22 | 0.10 30 |
| 1 | 32 | 14.17 | 14.17 | 33.231 | 24.786 | 316.0 | 0.106 | 6.03 | 103.1 | 2.7 | 0.36 | 0.0 | 0.00 | 0.23 | 0.11 32 |
| 1 | 41 | 13.59 | 13.58 | 33.156 | 24.848 | 310.4 | 0.134 | 6.12 | 103.3 | 3.7 | 0.38 | 0.0 | 0.00 | 0.26 | 0.13 41 |
| 1 | 50 ISL | 13.21 | 13.20 | 33.161 | 24.929 | 302.9 | 0.162 | 5.96 | 99.9 | 4.0 | 0.45 | 0.7 | 0.26 | 0.39 | 0.17 50 |
| 1 | 52 | 13.13 | 13.12 | 33.169 | 24.951 | 300.8 | 0.168 | 5.91 | 98.9 | 4.1 | 0.47 | 1.0 | 0.30 | 0.42 | 0.18 52 |
| 1 | 61 | 12.61 | 12.60 | 33.209 | 25.084 | 288.4 | 0.194 | 5.71 | 94.5 | 5.1 | 0.60 | 3.5 | 0.05 | 0.43 | 0.26 61 |
| 1 | 71 | 12.42 | 12.42 | 33.309 | 25.197 | 277.9 | 0.223 | 5.50 | 90.7 | 5.7 | 0.69 | 5.3 | 0.03 | 0.22 | 0.18 72 |
| 1 | 75 ISL | 12.06 | 12.05 | 33.320 | 25.275 | 270.4 | 0.234 | 5.39 | 88.2 | 6.5 | 0.76 | 6.6 | 0.03 | 0.17 | 0.16 76 |
| 1 | 86 | 11.01 | 11.00 | 33.366 | 25.504 | 248.8 | 0.262 | 4.92 | 78.7 | 10.2 | 1.01 | 11.1 | 0.02 | 0.10 | 0.12 87 |
| 1 | 100 | 10.75 | 10.74 | 33.562 | 25.702 | 230.2 | 0.296 | 3.84 | 61.2 | 17.9 | 1.47 | 17.8 | 0.03 | 0.04 | 0.09 101 |
| 1 | 119 | 9.99 | 9.98 | 33.649 | 25.901 | 211.6 | 0.338 | 3.36 | 52.7 | 24.1 | 1.75 | 22.2 | 0.02 | 0.03 | 0.14 120 |
| 1 | 125 ISL | 9.88 | 9.87 | 33.698 | 25.958 | 206.3 | 0.350 | 3.21 | 50.2 | 25.1 | 1.79 | 23.0 | 0.02 | 0.03 | 0.13 126 |
| 1 | 144 | 9.63 | 9.61 | 33.855 | 26.123 | 191.1 | 0.388 | 2.80 | 43.6 | 27.4 | 1.89 | 24.8 | 0.01 | 0.02 | 0.10 145 |
| 1 | 150 ISL | 9.51 | 9.49 | 33.889 | 26.169 | 186.8 | 0.399 | 2.70 | 41.9 | 28.7 | 1.93 | 25.5 | 0.01 | 0.02 | 0.09 151 |
| 1 | 174 | 9.06 | 9.04 | 33.982 | 26.315 | 173.3 | 0.443 | 2.41 | 37.1 | 33.4 | 2.08 | 27.7 | 0.01 | 0.01 | 0.08 175 |
| 1 | 200 ISL | 8.79 | 8.77 | 34.022 | 26.389 | 166.7 | 0.487 | 2.33 | 35.6 | 35.7 | 2.15 | 28.6 | 0.01 | 0.00 | 0.07 202 |
| 1 | 204 | 8.75 | 8.73 | 34.025 | 26.397 | 166.0 | 0.493 | 2.32 | 35.4 | 35.9 | 2.16 | 28.7 | 0.01 | 0.00 | 0.07 206 |
| 1 | 232 | 8.36 | 8.34 | 34.044 | 26.473 | 159.2 | 0.539 | 2.30 | 34.8 | 38.7 | 2.21 | 29.7 | 0.01 | | 234 |
| 1 | 250 ISL | 8.15 | 8.12 | 34.062 | 26.519 | 155.0 | 0.567 | 2.21 | 33.3 | 41.0 | 2.26 | 30.4 | 0.01 | | 252 |
| 1 | 271 | 7.95 | 7.92 | 34.084 | 26.566 | 150.9 | 0.599 | 2.05 | 30.8 | 43.9 | 2.34 | 31.3 | 0.01 | | 273 |
| 1 | 300 ISL | 7.74 | 7.71 | 34.108 | 26.616 | 146.5 | 0.642 | 1.81 | 27.0 | 47.5 | 2.45 | 32 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|------|-------|------|-------|-------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 | 15.43 | 15.43 | 33.134 | 24.440 | 348.0 | 0.000 | 5.85 | 102.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 0 |
| 1 | 10 ISL | 15.40 | 15.40 | 33.134 | 24.447 | 347.7 | 0.035 | 5.85 | 102.5 | 2.2 | 0.36 | 0.0 | 0.00 | 0.09 | 0.02 | 10 |
| 1 | 11 | 15.40 | 15.40 | 33.134 | 24.447 | 347.7 | 0.038 | 5.85 | 102.5 | 2.2 | 0.36 | 0.0 | 0.00 | 0.09 | 0.02 | 11 |
| 1 | 20 ISL | 15.40 | 15.40 | 33.134 | 24.448 | 348.0 | 0.070 | 5.86 | 102.6 | 2.1 | 0.36 | 0.0 | 0.00 | 0.09 | 0.01 | 20 |
| 1 | 21 | 15.40 | 15.40 | 33.134 | 24.448 | 348.0 | 0.073 | 5.86 | 102.6 | 2.1 | 0.36 | 0.0 | 0.00 | 0.09 | 0.01 | 21 |
| 1 | 30 ISL | 15.17 | 15.17 | 33.133 | 24.498 | 343.5 | 0.104 | 5.93 | 103.4 | 1.9 | 0.35 | 0.0 | 0.00 | 0.12 | 0.03 | 30 |
| 1 | 32 | 15.11 | 15.11 | 33.133 | 24.511 | 342.3 | 0.111 | 5.94 | 103.4 | 1.9 | 0.35 | 0.0 | 0.00 | 0.12 | 0.03 | 32 |
| 1 | 41 | 14.95 | 14.94 | 33.143 | 24.553 | 338.5 | 0.142 | 5.95 | 103.3 | 1.7 | 0.35 | 0.0 | 0.00 | 0.11 | 0.03 | 41 |
| 1 | 50 | 14.73 | 14.72 | 33.130 | 24.591 | 335.2 | 0.172 | 5.97 | 103.2 | 1.8 | 0.35 | 0.0 | 0.00 | 0.13 | 0.05 | 50 |
| 1 | 61 | 14.40 | 14.39 | 33.184 | 24.703 | 324.8 | 0.208 | 5.91 | 101.5 | 1.9 | 0.35 | 0.0 | 0.00 | 0.19 | 0.09 | 61 |
| 1 | 70 | 13.95 | 13.94 | 33.162 | 24.780 | 317.7 | 0.237 | 5.90 | 100.4 | 2.2 | 0.39 | 0.0 | 0.02 | 0.38 | 0.21 | 71 |
| 1 | 75 ISL | 13.81 | 13.80 | 33.181 | 24.823 | 313.7 | 0.253 | 5.89 | 99.9 | 2.4 | 0.41 | 0.2 | 0.13 | 0.38 | 0.20 | 76 |
| 1 | 85 | 13.54 | 13.53 | 33.230 | 24.917 | 305.1 | 0.284 | 5.85 | 98.7 | 2.9 | 0.45 | 0.7 | 0.29 | 0.37 | 0.19 | 86 |
| 1 | 99 | 12.86 | 12.85 | 33.245 | 25.064 | 291.3 | 0.326 | 5.67 | 94.3 | 4.2 | 0.58 | 3.3 | 0.01 | 0.12 | 0.11 | 100 |
| 100 ISL | 12.80 | 12.79 | 33.247 | 25.078 | 290.0 | 0.329 | 5.64 | 93.7 | 4.4 | 0.60 | 3.6 | 0.01 | 0.12 | 0.11 | 101 | |
| 1 | 119 | 11.65 | 11.63 | 33.323 | 25.355 | 263.9 | 0.381 | 4.93 | 80.0 | 8.7 | 0.96 | 9.9 | 0.01 | 0.09 | 0.10 | 120 |
| 125 ISL | 11.30 | 11.28 | 33.364 | 25.451 | 254.8 | 0.397 | 4.73 | 76.2 | 10.4 | 1.07 | 11.8 | 0.01 | 0.08 | 0.09 | 126 | |
| 1 | 144 | 10.37 | 10.35 | 33.516 | 25.734 | 228.2 | 0.443 | 4.15 | 65.5 | 15.9 | 1.38 | 17.1 | 0.01 | 0.03 | 0.05 | 145 |
| 150 ISL | 10.19 | 10.17 | 33.565 | 25.802 | 221.7 | 0.456 | 4.00 | 62.9 | 17.4 | 1.45 | 18.3 | 0.01 | 0.02 | 0.05 | 151 | |
| 1 | 174 | 9.63 | 9.61 | 33.744 | 26.036 | 199.9 | 0.507 | 3.51 | 54.6 | 23.1 | 1.66 | 22.0 | 0.01 | 0.00 | 0.05 | 175 |
| 200 ISL | 8.94 | 8.92 | 33.897 | 26.268 | 178.3 | 0.556 | 3.12 | 47.8 | 29.0 | 1.85 | 25.3 | 0.00 | 0.01 | 0.03 | 202 | |
| 1 | 205 | 8.87 | 8.85 | 33.911 | 26.290 | 176.2 | 0.561 | 3.09 | 47.3 | 29.6 | 1.87 | 25.6 | 0.00 | 0.01 | 0.03 | 205 |
| 1 | 232 | 8.38 | 8.36 | 33.987 | 26.425 | 163.7 | 0.610 | 2.92 | 44.2 | 34.5 | 2.00 | 27.3 | 0.00 | 0.00 | 0.00 | 234 |
| 250 ISL | 8.14 | 8.11 | 34.024 | 26.490 | 157.7 | 0.639 | 2.66 | 40.1 | 38.0 | 2.11 | 28.8 | 0.00 | 0.00 | 0.00 | 252 | |
| 1 | 271 | 7.90 | 7.87 | 34.057 | 26.552 | 152.1 | 0.672 | 2.32 | 34.8 | 42.1 | 2.25 | 30.5 | 0.00 | 0.00 | 0.00 | 273 |
| 300 ISL | 7.62 | 7.59 | 34.080 | 26.611 | 146.9 | 0.715 | 2.03 | 30.2 | 46.4 | 2.37 | 32.1 | 0.00 | 0.00 | 0.00 | 302 | |
| 1 | 326 | 7.42 | 7.39 | 34.096 | 26.653 | 143.3 | 0.753 | 1.80 | 26.7 | 50.0 | 2.47 | 33.3 | 0.00 | 0.00 | 0.00 | 329 |
| 1 | 384 | 7.06 | 7.02 | 34.168 | 26.760 | 133.8 | 0.833 | 1.12 | 16.5 | 58.9 | 2.74 | 36.1 | 0.00 | 0.00 | 0.00 | 387 |
| 400 ISL | 6.89 | 6.85 | 34.175 | 26.789 | 131.2 | 0.855 | 1.00 | 14.6 | 61.5 | 2.80 | 36.8 | 0.00 | 0.00 | 0.00 | 403 | |
| 1 | 448 | 6.36 | 6.32 | 34.186 | 26.869 | 123.9 | 0.916 | 0.75 | 10.8 | 69.4 | 2.94 | 38.9 | 0.00 | 0.00 | 0.00 | 452 |
| 500 ISL | 5.90 | 5.86 | 34.212 | 26.948 | 116.6 | 0.978 | 0.56 | 8.0 | 77.7 | 3.06 | 40.7 | 0.00 | 0.00 | 0.00 | 504 | |
| 1 | 519 | 5.73 | 5.69 | 34.222 | 26.977 | 113.9 | 1.000 | 0.49 | 7.0 | 80.8 | 3.10 | 41.4 | 0.00 | 0.00 | 0.00 | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|------|-------|------|-------|-------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | ST | |
| 1 | 0 ISL | 15.39 | 15.39 | 33.127 | 24.444 | 347.7 | 0.000 | 5.86 | 102.6 | 1.3 | 0.35 | 0.0 | 0.00 | 0.10 | 0.02 | 0 |
| 1 | 1 | 15.39 | 15.39 | 33.127 | 24.444 | 347.8 | 0.003 | 5.86 | 102.6 | 1.3 | 0.35 | 0.0 | 0.00 | 0.10 | 0.02 | 1 |
| 10 ISL | 15.36 | 15.36 | 33.126 | 24.450 | 347.4 | 0.035 | 5.88 | 102.9 | 1.2 | 0.35 | 0.0 | 0.00 | 0.09 | 0.02 | 10 | |
| 1 | 11 | 15.36 | 15.36 | 33.126 | 24.450 | 347.5 | 0.038 | 5.88 | 102.9 | 1.2 | 0.35 | 0.0 | 0.00 | 0.09 | 0.02 | 11 |
| 1 | 20 | 15.34 | 15.34 | 33.125 | 24.454 | 347.4 | 0.070 | 5.87 | 102.7 | 1.2 | 0.35 | 0.0 | 0.00 | 0.10 | 0.01 | 20 |
| 1 | 30 | 15.31 | 15.31 | 33.124 | 24.460 | 347.1 | 0.104 | 5.88 | 102.8 | 1.3 | 0.35 | 0.0 | 0.00 | 0.11 | 0.02 | 30 |
| 1 | 40 | 15.00 | 14.99 | 33.105 | 24.513 | 342.3 | 0.139 | 5.95 | 103.4 | 1.2 | 0.35 | 0.0 | 0.00 | 0.15 | 0.03 | 40 |
| 2 | 50 | 14.63 | 14.62 | 33.091 | 24.582 | 336.0 | 0.173 | 6.01 | 103.6 | 1.4 | 0.36 | 0.0 | 0.00 | 0.20 | 0.06 | 50 |
| 2 | 61 | 14.21 | 14.20 | 33.077 | 24.660 | 328.9 | 0.209 | 6.03 | 103.1 | 1.7 | 0.37 | 0.0 | 0.00 | 0.33 | 0.11 | 61 |
| 1 | 71 | 14.06 | 14.05 | 33.131 | 24.733 | 322.2 | 0.242 | 6.04 | 103.0 | 1.6 | 0.38 | 0.0 | 0.00 | 0.48 | 0.21 | 72 |
| 1 | 75 ISL | 13.94 | 13.93 | 33.148 | 24.771 | 318.6 | 0.255 | 6.00 | 102.0 | 1.8 | 0.40 | 0.1 | 0.08 | 0.46 | 0.20 | 76 |
| 1 | 84 | 13.64 | 13.63 | 33.178 | 24.856 | 310.8 | 0.283 | 5.90 | 99.7 | 2.3 | 0.44 | 0.2 | 0.26 | 0.34 | 0.19 | 85 |
| 1 | 99 | 13.27 | 13.26 | 33.202 | 24.950 | 302.2 | 0.329 | 5.82 | 97.6 | 2.5 | 0.49 | 1.5 | 0.22 | 0.13 | 0.11 | 100 |
| 100 ISL | 13.25 | 13.24 | 33.201 | 24.953 | 301.9 | 0.332 | 5.81 | 97.4 | 2.5 | 0.49 | 1.6 | 0.21 | 0.12 | 0.11 | 101 | |
| 1 | U9 | 12.61 | 12.59 | 33.192 | 25.072 | 291.0 | 0.388 | 5.55 | 91.8 | 4.2 | 0.65 | 4.4 | 0.02 | 0.05 | 0.06 | 120 |
| 125 ISL | 12.22 | 12.20 | 33.203 | 25.156 | 283.1 | 0.405 | 5.32 | 87.3 | 5.8 | 0.77 | 6.5 | 0.02 | 0.04 | 0.06 | 126 | |
| 1 | 143 | 10.95 | 10.93 | 33.266 | 25.438 | 256.4 | 0.454 | 4.54 | 72.5 | 11.7 | 1.17 | 13.6 | 0.01 | 0.03 | 0.06 | 144 |
| 150 ISL | 10.57 | 10.55 | 33.283 | 25.518 | 248.9 | 0.472 | 4.28 | 67.8 | 14.2 | 1.30 | 15.9 | 0.01 | 0.02 | 0.06 | 151 | |
| 1 | 173 | 9.60 | 9.58 | 33.416 | 25.785 | 223.7 | 0.526 | 3.58 | 55.5 | 22.1 | 1.66 | 21.8 | 0.01 | 0.00 | 0.04 | 174 |
| 200 ISL | 8.96 | 8.94 | 33.853 | 26.230 | 181.8 | 0.581 | 3.07 | 47.1 | 29.4 | 1.88 | 25.5 | 0.00 | 0.00 | 0.03 | 202 | |
| 1 | 203 | 8.91 | 8.89 | 33.899 | 26.274 | 177.7 | 0.586 | 3.03 | 46.4 | 30.0 | 1.90 | 25.8 | 0.00 | 0.00 | 0.03 | 205 |
| 1 | 230 | 8.49 | 8.47 | 33.981 | 26.404 | 165.8 | 0.633 | 2.81 | 42.7 | 33.8 | 2.02 | 27.7 | 0.00 | 0.00 | 0.00 | 232 |
| 250 ISL | 8.19 | 8.16 | 34.005 | 26.468 | 159.9 | 0.665 | 2.80 | 42.2 | 36.3 | 2.06 | 28.3 | 0.00 | 0.00 | 0.00 | 252 | |
| 1 | 270 | 7.90 | 7.87 | 34.015 | 26.519 | 155.2 | 0.697 | 2.79 | 41.8 | 39.2 | 2.10 | 28.9 | 0.00 | 0.00 | 0.00 | 272 |
| 300 ISL | 7.49 | 7.46 | 34.041 | 26.599 | 147.9 | 0.742 | 2.34 | 34.7 | 45.8 | 2.29 | 31.4 | 0.00 | 0.00 | 0.00 | 302 | |
| 1 | 323 | 7.20 | 7.17 | 34.059 | 26.654 | 142.9 | 0.776 | 1.94 | 28.6 | 51.2 | 2.45 | 33.5 | 0.00 | 0.00 | 0.00 | 326 |
| 1 | 382 | 6.56 | 6.53 | 34.085 | 26.762 | 133.2 | 0.857 | 1.41 | 20.5 | 61.3 | 2.69 | 36.7 | 0.00 | 0.00 | 0.00 | 385 |
| 400 ISL | 6.41 | 6.37 | 34.095 | 26.790 | 130.7 | 0.881 | 1.27 | 18.4 | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|-------|--------|-------|
| 33 23.3 N | 124 19.4 W | 12/05/87 | 1725 GMT | 4305 M | 350 | 18 KT | 330 05 07 | 2 | 1015.5 MB | 17.0 C | 15.8 C | 8/8 | SC | I | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.50 | 15.50 | 33.149 | 24.437 | 348.4 | 0.000 | 5.84 | 102.5 | 2.4 | 0.33 | 0.0 | 0.00 | 0.06 | 0.04 |
| 1 | 1 | 15.50 | 15.50 | 33.149 | 24.437 | 348.4 | 0.003 | 5.84 | 102.5 | 2.4 | 0.33 | 0.0 | 0.00 | 0.06 | 0.04 |
| 1 | 10 ISL | 15.50 | 15.50 | 33.148 | 24.436 | 348.8 | 0.035 | 5.84 | 102.5 | 2.4 | 0.34 | 0.0 | 0.00 | 0.07 | 0.02 |
| 1 | 12 | 15.50 | 15.50 | 33.148 | 24.436 | 348.8 | 0.042 | 5.84 | 102.5 | 2.4 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 |
| 1 | 20 ISL | 15.50 | 15.50 | 33.150 | 24.438 | 348.9 | 0.070 | 5.85 | 102.7 | 2.3 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 |
| 1 | 21 | 15.50 | 15.50 | 33.150 | 24.438 | 348.9 | 0.073 | 5.85 | 102.7 | 2.3 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 |
| 1 | 30 ISL | 15.49 | 15.49 | 33.151 | 24.441 | 348.9 | 0.105 | 5.85 | 102.6 | 2.2 | 0.34 | 0.0 | 0.00 | 0.08 | 0.01 |
| 1 | 31 | 15.49 | 15.49 | 33.151 | 24.441 | 348.9 | 0.108 | 5.85 | 102.6 | 2.2 | 0.34 | 0.0 | 0.00 | 0.08 | 0.01 |
| 1 | 42 | 15.41 | 15.40 | 33.189 | 24.489 | 344.7 | 0.146 | 5.88 | 103.0 | 1.8 | 0.34 | 0.0 | 0.00 | 0.09 | 0.01 |
| 1 | 50 ISL | 15.34 | 15.33 | 33.182 | 24.499 | 344.0 | 0.174 | 5.89 | 103.1 | 1.7 | 0.34 | 0.0 | 0.00 | 0.10 | 0.03 |
| 1 | 52 | 15.30 | 15.29 | 33.175 | 24.502 | 343.7 | 0.181 | 5.90 | 103.1 | 1.7 | 0.34 | 0.0 | 0.00 | 0.11 | 0.03 |
| 1 | 61 | 14.92 | 14.91 | 33.109 | 24.534 | 340.9 | 0.212 | 5.95 | 103.2 | 2.1 | 0.36 | 0.0 | 0.00 | 0.17 | 0.05 |
| 1 | 71 | 14.84 | 14.83 | 33.153 | 24.586 | 336.3 | 0.245 | 5.96 | 103.2 | 1.9 | 0.35 | 0.0 | 0.00 | 0.21 | 0.08 |
| 1 | 75 ISL | 14.58 | 14.57 | 33.117 | 24.614 | 333.8 | 0.259 | 6.00 | 103.4 | 2.0 | 0.36 | 0.0 | 0.00 | 0.24 | 0.10 |
| 1 | 86 | 13.92 | 13.91 | 33.047 | 24.698 | 326.0 | 0.295 | 6.06 | 102.9 | 2.3 | 0.38 | 0.0 | 0.00 | 0.30 | 0.14 |
| 1 | 100 ISL | 14.18 | 14.17 | 33.268 | 24.815 | 315.2 | 0.340 | 5.89 | 100.7 | 2.5 | 0.38 | 0.1 | 0.06 | 0.31 | 0.14 |
| 1 | 101 | 14.21 | 14.20 | 33.288 | 24.824 | 314.4 | 0.343 | 5.87 | 100.4 | 2.5 | 0.38 | 0.1 | 0.06 | 0.31 | 0.14 |
| 1 | 120 | 13.52 | 13.50 | 33.476 | 25.112 | 287.4 | 0.400 | 5.55 | 93.7 | 3.9 | 0.47 | 2.4 | 0.14 | 0.21 | 0.19 |
| 1 | 125 ISL | 13.21 | 13.19 | 33.477 | 25.175 | 281.5 | 0.414 | 5.49 | 92.1 | 4.2 | 0.52 | 3.3 | 0.12 | 0.19 | 0.18 |
| 1 | 145 | 11.77 | 11.75 | 33.444 | 25.427 | 257.7 | 0.468 | 5.20 | 84.6 | 6.6 | 0.78 | 7.6 | 0.03 | 0.11 | 0.13 |
| 1 | 150 ISL | 11.38 | 11.36 | 33.445 | 25.500 | 250.8 | 0.481 | 5.11 | 82.5 | 7.8 | 0.87 | 9.1 | 0.03 | 0.09 | 0.12 |
| 1 | 176 | 9.65 | 9.63 | 33.544 | 25.877 | 215.0 | 0.542 | 4.47 | 69.5 | 16.3 | 1.36 | 17.1 | 0.00 | 0.02 | 0.05 |
| 1 | 200 ISL | 8.93 | 8.91 | 33.808 | 26.199 | 184.7 | 0.590 | 3.51 | 53.8 | 26.0 | 1.77 | 23.8 | 0.00 | 0.00 | 0.03 |
| 1 | 205 | 8.84 | 8.82 | 33.861 | 26.255 | 179.5 | 0.599 | 3.33 | 50.9 | 27.8 | 1.83 | 24.9 | 0.00 | 0.00 | 0.02 |
| 1 | 234 | 8.36 | 8.34 | 33.950 | 26.399 | 166.2 | 0.649 | 3.18 | 48.1 | 32.3 | 1.92 | 26.6 | 0.00 | 0.00 | 0.236 |
| 1 | 250 ISL | 8.13 | 8.10 | 33.973 | 26.452 | 161.4 | 0.675 | 3.16 | 47.6 | 34.2 | 1.95 | 27.1 | 0.00 | 0.00 | 0.252 |
| 1 | 273 | 7.83 | 7.80 | 33.991 | 26.510 | 156.1 | 0.712 | 3.10 | 46.4 | 37.1 | 2.01 | 28.0 | 0.00 | 0.00 | 0.275 |
| 1 | 300 ISL | 7.50 | 7.47 | 34.012 | 26.575 | 150.3 | 0.753 | 2.73 | 40.5 | 42.2 | 2.18 | 30.1 | 0.00 | 0.00 | 0.302 |
| 1 | 327 | 7.17 | 7.14 | 34.024 | 26.631 | 145.1 | 0.793 | 2.32 | 34.2 | 47.7 | 2.36 | 32.4 | 0.00 | 0.00 | 0.330 |
| 1 | 385 | 6.35 | 6.32 | 34.011 | 26.731 | 135.9 | 0.874 | 2.05 | 29.6 | 57.8 | 2.52 | 35.1 | 0.00 | 0.00 | 0.388 |
| 1 | 400 ISL | 6.17 | 6.13 | 34.017 | 26.759 | 133.3 | 0.895 | 1.89 | 27.2 | 61.1 | 2.59 | 36.1 | 0.00 | 0.00 | 0.403 |
| 1 | 451 | 5.71 | 5.67 | 34.058 | 26.849 | 125.0 | 0.960 | 1.26 | 17.9 | 72.1 | 2.84 | 39.4 | 0.00 | 0.00 | 0.455 |
| 1 | 500 ISL | 5.51 | 5.47 | 34.131 | 26.931 | 117.7 | 1.020 | 0.78 | 11.0 | 80.0 | 3.02 | 41.3 | 0.00 | 0.00 | 0.504 |
| 1 | 519 | 5.43 | 5.39 | 34.160 | 26.964 | 114.7 | 1.042 | 0.60 | 8.5 | 83.1 | 3.09 | 42.0 | 0.00 | 0.00 | 0.524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|-------|--------|-------|
| 34 27.0 N | 120 31.4 W | 11/05/87 | 0642 GMT | 75 M | 300 | 15 KT | 330 05 07 | 2 | 1012.5 MB | 14.5 C | 13.4 C | 8/8 | SC | I | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.21 | 15.21 | 33.563 | 24.819 | 312.0 | 0.000 | 6.17 | 107.9 | 4.4 | 0.36 | 0.5 | 0.05 | 1.69 | 0.40 |
| 1 | 10 | 13.79 | 13.79 | 33.550 | 25.111 | 284.5 | 0.030 | 5.52 | 93.8 | 7.1 | 0.65 | 4.2 | 0.31 | 1.54 | 0.34 |
| 1 | 20 | 12.50 | 12.50 | 33.562 | 25.378 | 259.3 | 0.057 | 4.82 | 79.8 | 9.5 | 0.97 | 8.3 | 0.54 | 1.63 | 0.50 |
| 1 | 30 | 11.64 | 11.64 | 33.582 | 25.556 | 242.6 | 0.082 | 4.10 | 66.6 | 12.5 | 1.25 | 13.7 | 0.16 | 0.83 | 0.39 |
| 1 | 41 | 11.05 | 11.05 | 33.644 | 25.712 | 228.0 | 0.108 | 3.62 | 58.1 | 16.6 | 1.48 | 17.4 | 0.14 | 0.34 | 0.41 |
| 1 | 50 ISL | 10.74 | 10.73 | 33.674 | 25.791 | 220.7 | 0.128 | 3.32 | 52.9 | 18.9 | 1.60 | 19.2 | 0.10 | 0.19 | 0.50 |
| 1 | 51 | 10.71 | 10.70 | 33.677 | 25.798 | 220.0 | 0.130 | 3.30 | 52.6 | 19.1 | 1.61 | 19.3 | 0.09 | 0.18 | 0.51 |
| 1 | 61 | 10.40 | 10.39 | 33.732 | 25.895 | 211.1 | 0.152 | 3.23 | 51.1 | 21.1 | 1.66 | 20.6 | 0.07 | 0.11 | 0.37 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|-------|--------|-------|
| 34 19.0 N | 120 48.1 W | 11/05/87 | 0928 GMT | 806 M | 320 | 15 KT | 330 05 07 | 2 | 1012.2 MB | 14.0 C | 12.8 C | 8/8 | SC | I | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | DEG C | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.52 | 14.52 | 33.572 | 24.975 | 297.1 | 0.000 | 5.98 | 103.2 | 6.8 | 0.49 | 2.2 | 0.06 | 2.41 | 0.53 |
| 1 | 1 | 14.52 | 14.52 | 33.572 | 24.975 | 297.2 | 0.003 | 5.98 | 103.2 | 6.8 | 0.49 | 2.2 | 0.06 | 2.41 | 0.53 |
| 1 | 10 ISL | 14.47 | 14.47 | 33.572 | 24.986 | 296.4 | 0.030 | 5.98 | 103.1 | 6.7 | 0.50 | 2.3 | 0.05 | 2.40 | 0.48 |
| 1 | 11 | 14.46 | 14.46 | 33.572 | 24.988 | 296.2 | 0.033 | 5.98 | 103.1 | 6.7 | 0.50 | 2.3 | 0.05 | 2.40 | 0.48 |
| 1 | 20 ISL | 14.18 | 14.18 | 33.591 | 25.062 | 289.5 | 0.059 | 5.96 | 102.1 | 7.7 | 0.57 | 3.3 | 0.07 | 2.28 | 0.54 |
| 1 | 22 | 14.10 | 14.10 | 33.595 | 25.082 | 287.6 | 0.065 | 5.95 | 101.8 | 8.0 | 0.59 | 3.6 | 0.08 | 2.25 | 0.54 |
| 1 | 30 ISL | 13.85 | 13.85 | 33.596 | 25.135 | 282.8 | 0.088 | 5.76 | 98.0 | 8.5 | 0.66 | 4.7 | 0.11 | 1.63 | 0.38 |
| 1 | 32 | 13.72 | 13.72 | 33.596 | 25.161 | 280.3 | 0.093 | 5.71 | 96.9 | 8.8 | 0.70 | 5.0 | 0.13 | 1.44 | 0.33 |
| 1 | 41 | 12.27 | 12.26 | 33.612 | 25.461 | 251.9 | 0.117 | 4.70 | 77.4 | 11.8 | 1.06 | 10.9 | 0.28 | 0.67 | 0.28 |
| 1 | 50 ISL | 11.17 | 11.16 | 33.662 | 25.705 | 228.9 | 0.139</ | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 34 9.0 N | 121 9.0 W | 11/05/87 | 1302 GMT | 2227 M | 340 | 18 KT | 320 04 | 07 2 | 1012.0 MB | 13.5 C | 12.1 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 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 | D.BAR |
| 1 | 0 | 13.97 | 13.97 | 33.109 | 24.733 | 320.2 | 0.000 | 6.13 | 104.3 | 2.2 | 0.43 | 0.7 | 0.05 | 0.54 | 0.11 | 0 |
| 1 | 10 | 13.97 | 13.97 | 33.108 | 24.732 | 320.5 | 0.032 | 6.14 | 104.5 | 2.1 | 0.46 | 0.7 | 0.05 | 0.79 | 0.16 | 10 |
| 1 | 20 ISL | 13.95 | 13.95 | 33.105 | 24.734 | 320.6 | 0.064 | 6.16 | 104.8 | 1.9 | 0.46 | 0.8 | 0.05 | 0.55 | 0.16 | 20 |
| 1 | 21 | 13.95 | 13.95 | 33.105 | 24.735 | 320.6 | 0.067 | 6.16 | 104.8 | 1.9 | 0.46 | 0.8 | 0.05 | 0.52 | 0.16 | 21 |
| 1 | 30 ISL | 12.52 | 12.52 | 33.101 | 25.017 | 293.9 | 0.095 | 6.06 | 100.0 | 2.7 | 0.61 | 2.2 | 0.27 | 0.54 | 0.19 | 30 |
| 1 | 32 | 12.19 | 12.19 | 33.108 | 25.085 | 287.4 | 0.101 | 6.02 | 98.7 | 3.0 | 0.65 | 2.7 | 0.34 | 0.55 | 0.20 | 32 |
| 1 | 41 | 11.92 | 11.91 | 33.187 | 25.198 | 277.0 | 0.126 | 5.69 | 92.8 | 4.9 | 0.80 | 5.4 | 0.63 | 0.42 | 0.17 | 41 |
| 1 | 50 ISL | 11.73 | 11.72 | 33.276 | 25.302 | 267.2 | 0.151 | 5.37 | 87.3 | 6.8 | 0.92 | 8.2 | 0.45 | 0.38 | 0.21 | 50 |
| 1 | 51 | 11.70 | 11.69 | 33.285 | 25.315 | 266.0 | 0.153 | 5.33 | 86.6 | 7.0 | 0.93 | 8.5 | 0.42 | 0.38 | 0.21 | 51 |
| 1 | 61 | 11.19 | 11.18 | 33.351 | 25.459 | 252.5 | 0.179 | 4.94 | 79.4 | 10.0 | 1.11 | 11.8 | 0.36 | 0.38 | 0.18 | 61 |
| 1 | 71 | 10.96 | 10.95 | 33.399 | 25.538 | 245.2 | 0.204 | 4.72 | 75.5 | 11.3 | 1.20 | 13.5 | 0.33 | 0.18 | 0.23 | 72 |
| 1 | 75 ISL | 10.72 | 10.71 | 33.435 | 25.608 | 238.6 | 0.214 | 4.47 | 71.1 | 12.9 | 1.29 | 15.2 | 0.25 | 0.14 | 0.21 | 76 |
| 1 | 85 | 10.14 | 10.13 | 33.549 | 25.797 | 220.8 | 0.237 | 3.81 | 59.9 | 17.7 | 1.55 | 19.6 | 0.04 | 0.08 | 0.15 | 86 |
| 1 | 100 | 9.95 | 9.94 | 33.732 | 25.972 | 204.5 | 0.269 | 3.41 | 53.4 | 22.9 | 1.76 | 22.7 | 0.04 | 0.09 | 0.24 | 101 |
| 1 | 118 | 9.45 | 9.44 | 33.851 | 26.148 | 188.1 | 0.304 | 2.89 | 44.8 | 26.2 | 1.90 | 25.0 | 0.02 | 0.05 | 0.19 | 119 |
| 1 | 125 ISL | 9.39 | 9.38 | 33.888 | 26.187 | 184.5 | 0.317 | 2.72 | 42.1 | 27.2 | 1.95 | 25.6 | 0.02 | 0.05 | 0.20 | 126 |
| 1 | 144 | 9.29 | 9.27 | 33.965 | 26.264 | 177.6 | 0.351 | 2.40 | 37.1 | 29.9 | 2.08 | 27.0 | 0.01 | 0.06 | 0.23 | 145 |
| 1 | 150 ISL | 9.18 | 9.16 | 33.983 | 26.296 | 174.7 | 0.362 | 2.39 | 36.9 | 31.0 | 2.10 | 27.4 | 0.01 | 0.05 | 0.22 | 151 |
| 1 | 174 | 8.71 | 8.69 | 34.031 | 26.408 | 164.3 | 0.403 | 2.33 | 35.6 | 35.0 | 2.16 | 28.7 | 0.02 | 0.03 | 0.19 | 175. |
| 1 | 200 ISL | 8.36 | 8.34 | 34.046 | 26.474 | 158.5 | 0.445 | 2.31 | 35.0 | 37.4 | 2.21 | 29.5 | 0.02 | 0.03 | 0.19 | 202 |
| 1 | 203 | 8.32 | 8.30 | 34.046 | 26.480 | 157.9 | 0.449 | 2.31 | 34.9 | 37.6 | 2.22 | 29.6 | 0.02 | 0.03 | 0.19 | 205 |
| 1 | 232 | 7.97 | 7.95 | 34.062 | 26.545 | 152.1 | 0.494 | 2.22 | 33.3 | 40.6 | 2.30 | 30.8 | 0.02 | | 234 | |
| 1 | 250 ISL | 7.86 | 7.84 | 34.084 | 26.579 | 149.2 | 0.521 | 2.02 | 30.2 | 43.0 | 2.38 | 31.6 | 0.02 | | 252 | |
| 1 | 271 | 7.76 | 7.73 | 34.111 | 26.615 | 146.1 | 0.552 | 1.76 | 26.3 | 46.1 | 2.48 | 32.5 | 0.02 | | 273 | |
| 1 | 300 ISL | 7.51 | 7.48 | 34.131 | 26.667 | 141.5 | 0.594 | 1.51 | 22.4 | 49.8 | 2.59 | 33.8 | 0.02 | | 302 | |
| 1 | 325 | 7.27 | 7.24 | 34.146 | 26.713 | 137.4 | 0.629 | 1.32 | 19.5 | 53.6 | 2.68 | 34.9 | 0.02 | | 328 | |
| 1 | 385 | 6.71 | 6.67 | 34.201 | 26.833 | 126.6 | 0.708 | 0.80 | 11.7 | 67.7 | 2.93 | 37.9 | 0.00 | | 388 | |
| 1 | 400 ISL | 6.65 | 6.61 | 34.209 | 26.848 | 125.4 | 0.727 | 0.74 | 10.8 | 69.0 | 2.96 | 38.2 | 0.00 | | 403 | |
| 1 | 449 | 6.46 | 6.42 | 34.231 | 26.891 | 121.9 | 0.788 | 0.61 | 8.8 | 72.3 | 3.03 | 39.0 | 0.00 | | 453 | |
| 1 | 500 ISL | 6.02 | 5.98 | 34.253 | 26.965 | 115.1 | 0.848 | 0.45 | 6.5 | 79.9 | 3.12 | 40.6 | 0.00 | | 504 | |
| 1 | 519 | 5.86 | 5.81 | 34.262 | 26.993 | 112.6 | 0.870 | 0.39 | 5.6 | 82.8 | 3.16 | 41.2 | 0.00 | | 524 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 49.0 N | 121 50.6 W | 11/05/87 | 1817 GMT | 3733 M | 340 | 15 KT | 320 04 | 07 2 | 1014.8 MB | 14.8 C | 12.9 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 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 | D.BAR |
| 1 | 0 | 13.26 | 13.26 | 33.324 | 25.043 | 290.6 | 0.000 | 6.18 | 103.8 | 6.6 | 0.67 | 4.1 | 0.13 | 0.52 | 0.11 | 0 |
| 1 | 10 | 13.25 | 13.25 | 33.317 | 25.040 | 291.2 | 0.029 | 6.18 | 103.7 | 6.5 | 0.67 | 4.1 | 0.13 | 0.73 | 0.15 | 10 |
| 1 | 20 | 13.24 | 13.24 | 33.320 | 25.045 | 291.0 | 0.058 | 6.17 | 103.5 | 6.2 | 0.66 | 4.2 | 0.13 | 0.54 | 0.13 | 20 |
| 1 | 30 ISL | 12.91 | 12.91 | 33.266 | 25.069 | 289.0 | 0.087 | 6.15 | 102.5 | 6.3 | 0.68 | 4.5 | 0.15 | 0.68 | 0.11 | 30 |
| 1 | 31 | 12.88 | 12.88 | 33.261 | 25.071 | 288.8 | 0.090 | 6.15 | 102.4 | 6.3 | 0.68 | 4.5 | 0.15 | 0.70 | 0.11 | 31 |
| 1 | 40 | 11.48 | 11.48 | 33.125 | 25.230 | 273.8 | 0.115 | 5.91 | 95.4 | 8.0 | 0.86 | 7.0 | 0.17 | 0.60 | 0.18 | 40 |
| 1 | 50 | 10.99 | 10.98 | 33.168 | 25.352 | 262.4 | 0.142 | 5.36 | 85.7 | 10.6 | 1.06 | 10.2 | 0.24 | 0.46 | 0.34 | 50 |
| 1 | 60 | 10.64 | 10.63 | 33.277 | 25.499 | 248.7 | 0.168 | 5.00 | 79.3 | 13.1 | 1.18 | 12.7 | 0.33 | 0.29 | 0.15 | 60 |
| 1 | 70 | 10.31 | 10.30 | 33.440 | 25.683 | 231.3 | 0.192 | 4.18 | 65.9 | 16.5 | 1.41 | 17.6 | 0.21 | 0.15 | 0.16 | 71 |
| 1 | 75 ISL | 10.22 | 10.21 | 33.507 | 25.751 | 225.0 | 0.203 | 4.02 | 63.3 | 17.9 | 1.49 | 19.0 | 0.17 | 0.16 | 0.19 | 76 |
| 1 | 85 | 10.06 | 10.05 | 33.621 | 25.867 | 214.1 | 0.225 | 3.85 | 60.4 | 20.7 | 1.63 | 21.0 | 0.12 | 0.18 | 0.25 | 86 |
| 1 | 100 | 9.56 | 9.55 | 33.759 | 26.058 | 196.2 | 0.256 | 3.29 | 51.1 | 26.3 | 1.86 | 24.7 | 0.02 | 0.13 | 0.31 | 101 |
| 1 | 121 | 9.20 | 9.19 | 33.857 | 26.194 | 183.7 | 0.296 | 2.89 | 44.6 | 29.1 | 1.94 | 26.3 | 0.02 | 0.05 | 0.24 | 122 |
| 1 | 125 ISL | 9.14 | 9.13 | 33.872 | 26.215 | 181.8 | 0.303 | 2.84 | 43.7 | 29.6 | 1.95 | 26.5 | 0.02 | 0.05 | 0.24 | 126 |
| 1 | 144 | 8.89 | 8.87 | 33.931 | 26.301 | 173.9 | 0.337 | 2.62 | 40.1 | 32.0 | 2.01 | 27.5 | 0.01 | 0.03 | 0.23 | 145 |
| 1 | 150 ISL | 8.85 | 8.83 | 33.949 | 26.322 | 172.1 | 0.347 | 2.54 | 38.9 | 32.8 | 2.03 | 27.8 | 0.01 | 0.03 | 0.23 | 151 |
| 1 | 174 | 8.69 | 8.67 | 34.007 | 26.392 | 165.8 | 0.388 | 2.31 | 35.2 | 35.6 | 2.10 | 28.9 | 0.01 | 0.03 | 0.24 | 175 |
| 1 | 200 ISL | 8.31 | 8.29 | 34.036 | 26.474 | 158.5 | 0.430 | 2.36 | 35.7 | 38.0 | 2.14 | 29.6 | 0.01 | 0.02 | 0.22 | 202 |
| 1 | 202 | 8.28 | 8.26 | 34.038 | 26.480 | 157.9 | 0.433 | 2.36 | 35.7 | 38.2 | 2.14 | 29.7 | 0.01 | 0.02 | 0.22 | 204 |
| 1 | 232 | 8.07 | 8.05 | 34.073 | 26.539 | 152.8 | 0.480 | 2.13 | 32.0 | 41.6 | 2.24 | 30.8 | 0.01 | | 234 | |
| 1 | 250 ISL | 7.82 | 7.80 | 34.072 | 26.575 | 149.5 | 0.507 | 2.01 | 30.1 | 44.5 | 2.30 | 31.4 | 0.01 | | 252 | |
| 1 | 271 | 7.52 | 7.49 | 34.071 | 26.618 | 145.7 | 0.538 | 1.86 | 27.6 | 48.2 | 2.37 | 32.2 | 0.02 | | 273 | |
| 1 | 300 ISL | 7.28 | 7.25 | 34.112 | 26.685 | 139.7 | 0.579 | 1.50 | 22.2 | 53.3 | 2.53 | 34.1 | 0.02 | | 302 | |
| 1 | 326 | 7.11 | 7.08 | 34.156 | 26.743 | 134.5 | 0.615 | 1.17 | 17.2 | 57.7 | 2.67 | 35.8 | 0.01 | | 329 | |
| 1 | 385 | 6.61 | 6.57 | 34.196 | 26.843 | 125.6 | 0.692 | 0.77 | 11.2 | 66.4 | 2.89 | 38.4 | 0.01 | | 388 | |
| 1 | 400 ISL | 6.46 | 6.42 | 34.199 | 26.865 | 123.6 | 0.710 | 0.71 | 10.3 | 68.5 | 2.93 | 39.0 | 0.01 | | 403 | |
| 1 | 448 | 6.02 | 5.98 | 34.205 | 26.927 | 118.0 | 0.768 | 0.57 | 8.2 | 74.9 | 3.01 | 40.5 | 0.00 | | 452 | |
| 1 | 500 ISL | 5 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-------|-------|-------|---------|-----------|------|-----------|--------|--------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 33 29.0 N | 122 32.0 W | 12/05/87 | 0228 GMT | 4066 M | 340 | 10 KT | 320 | 04 | 04 | 1 | 1014.2 MB | 15.8 C | 13.9 C | 6/8 | ST | |
| 1 0 ISL | 15.37 | 15.37 | 33.146 | 24.463 | 345.9 | 0.000 | 5.88 | 102.9 | 2.1 | 0.40 | 0.0 | 0.00 | 0.10 | 0.03 | 0 | |
| 1 1 | 15.37 | 15.37 | 33.146 | 24.463 | 345.9 | 0.003 | 5.88 | 102.9 | 2.1 | 0.40 | 0.0 | 0.00 | 0.10 | 0.03 | 1 | |
| 1 10 ISL | 15.35 | 15.35 | 33.145 | 24.467 | 345.8 | 0.035 | 5.91 | 103.4 | 2.0 | 0.41 | 0.0 | 0.00 | 0.10 | 0.03 | 10 | |
| 1 11 | 15.35 | 15.35 | 33.145 | 24.467 | 345.8 | 0.038 | 5.91 | 103.4 | 2.0 | 0.41 | 0.0 | 0.00 | 0.10 | 0.03 | 11 | |
| 1 20 ISL | 15.35 | 15.35 | 33.147 | 24.469 | 346.0 | 0.069 | 5.89 | 103.1 | 2.0 | 0.41 | 0.0 | 0.00 | 0.11 | 0.03 | 20 | |
| 1 21 | 15.35 | 15.35 | 33.147 | 24.469 | 346.0 | 0.073 | 5.89 | 103.1 | 2.0 | 0.41 | 0.0 | 0.00 | 0.11 | 0.03 | 21 | |
| 1 30 ISL | 15.30 | 15.30 | 33.143 | 24.477 | 345.5 | 0.104 | 5.91 | 103.3 | 2.0 | 0.39 | 0.0 | 0.00 | 0.13 | 0.02 | 30 | |
| 1 31 | 15.29 | 15.29 | 33.143 | 24.479 | 345.3 | 0.107 | 5.91 | 103.3 | 2.0 | 0.39 | 0.0 | 0.00 | 0.13 | 0.02 | 31 | |
| 1 41 | 15.03 | 15.02 | 33.132 | 24.528 | 340.9 | 0.142 | 5.96 | 103.6 | 2.7 | 0.41 | 0.0 | 0.00 | 0.14 | 0.04 | 41 | |
| 1 50 ISL | 14.71 | 14.70 | 33.134 | 24.598 | 334.5 | 0.172 | 5.98 | 103.3 | 2.3 | 0.41 | 0.0 | 0.00 | 0.18 | 0.06 | 50 | |
| 1 51 | 14.67 | 14.66 | 33.134 | 24.607 | 333.7 | 0.175 | 5.98 | 103.2 | 2.3 | 0.41 | 0.0 | 0.00 | 0.19 | 0.06 | 51 | |
| 1 62 | 14.04 | 14.03 | 33.085 | 24.702 | 324.9 | 0.211 | 6.12 | 104.3 | 2.8 | 0.42 | 0.0 | 0.00 | 0.31 | 0.10 | 62 | |
| 1 72 | 13.85 | 13.84 | 33.110 | 24.760 | 319.6 | 0.244 | 6.07 | 103.0 | 2.9 | 0.43 | 0.0 | 0.00 | 0.35 | 0.13 | 73 | |
| 1 75 ISL | 13.84 | 13.83 | 33.135 | 24.782 | 317.6 | 0.253 | 6.05 | 102.7 | 2.9 | 0.44 | 0.0 | 0.04 | 0.37 | 0.14 | 76 | |
| 1 86 | 13.74 | 13.73 | 33.241 | 24.885 | 308.1 | 0.288 | 5.93 | 100.5 | 2.9 | 0.48 | 0.2 | 0.16 | 0.42 | 0.19 | 87 | |
| 1 100 ISL | 13.17 | 13.16 | 33.333 | 25.071 | 290.7 | 0.330 | 5.66 | 94.8 | 3.7 | 0.56 | 2.5 | 0.09 | 0.32 | 0.21 | 101 | |
| 1 101 | 13.12 | 13.11 | 33.338 | 25.085 | 289.4 | 0.333 | 5.64 | 94.4 | 3.8 | 0.57 | 2.7 | 0.08 | 0.31 | 0.21 | 102 | |
| 1 121 | 11.82 | 11.80 | 33.361 | 25.353 | 264.1 | 0.388 | 5.24 | 85.3 | 7.0 | 0.83 | 7.5 | 0.03 | 0.21 | 0.17 | 122 | |
| 1 125 ISL | 11.57 | 11.55 | 33.377 | 25.412 | 258.6 | 0.398 | 5.15 | 83.4 | 7.9 | 0.90 | 8.6 | 0.02 | 0.18 | 0.15 | 126 | |
| 1 144 | 10.47 | 10.45 | 33.485 | 25.692 | 232.2 | 0.445 | 4.69 | 74.2 | 12.7 | 1.21 | 13.9 | 0.01 | 0.05 | 0.08 | 145 | |
| 1 150 ISL | 10.13 | 10.11 | 33.529 | 25.785 | 223.4 | 0.459 | 4.56 | 71.6 | 14.6 | 1.29 | 15.5 | 0.01 | 0.04 | 0.07 | 151 | |
| 1 176 | 9.07 | 9.05 | 33.722 | 26.110 | 192.8 | 0.513 | 3.91 | 60.1 | 23.1 | 1.64 | 21.9 | 0.01 | 0.01 | 0.04 | 177 | |
| 1 200 ISL | 9.00 | 8.98 | 33.858 | 26.228 | 182.1 | 0.558 | 2.91 | 44.7 | 30.4 | 1.98 | 26.4 | 0.01 | 0.06 | 0.12 | 202 | |
| 1 205 | 8.98 | 8.96 | | | | 0.567 | 2.74 | 42.0 | 31.7 | 2.04 | 27.0 | 0.01 | 0.07 | 0.14 | 207 | |
| 1 234 | 8.29 | 8.27 | 33.978 | 26.432 | 163.1 | 0.617 | 2.96 | 44.7 | 35.3 | 2.04 | 27.6 | 0.01 | | | 236 | |
| 1 250 ISL | 8.04 | 8.01 | 34.002 | 26.488 | 157.9 | 0.642 | 2.87 | 43.1 | 37.9 | 2.09 | 28.5 | 0.01 | | | 252 | |
| 1 273 | 7.74 | 7.71 | 34.020 | 26.546 | 152.6 | 0.678 | 2.60 | 38.8 | 42.2 | 2.21 | 30.2 | 0.01 | | | 275 | |
| 1 300 ISL | 7.38 | 7.35 | 34.040 | 26.614 | 146.5 | 0.718 | 2.26 | 33.5 | 47.7 | 2.37 | 32.1 | 0.01 | | | 302 | |
| 1 327 | 7.06 | 7.03 | 34.060 | 26.674 | 140.9 | 0.757 | 1.89 | 27.8 | 53.4 | 2.53 | 34.0 | 0.00 | | | 330 | |
| 1 385 | 6.53 | 6.50 | 34.125 | 26.797 | 129.8 | 0.836 | 1.12 | 16.3 | 64.9 | 2.84 | 37.7 | 0.00 | | | 388 | |
| 1 400 ISL | 6.38 | 6.34 | 34.130 | 26.821 | 127.7 | 0.855 | 1.02 | 14.8 | 67.4 | 2.89 | 38.4 | 0.00 | | | 403 | |
| 1 449 | 5.93 | 5.89 | 34.139 | 26.886 | 121.8 | 0.916 | 0.82 | 11.7 | 74.6 | 3.01 | 40.4 | 0.00 | | | 453 | |
| 1 500 ISL | 5.63 | 5.59 | 34.168 | 26.946 | 116.4 | 0.977 | 0.63 | 9.0 | 81.1 | 3.11 | 41.6 | 0.00 | | | 504 | |
| 1 516 | 5.53 | 5.49 | 34.177 | 26.966 | 114.7 | 0.995 | 0.57 | 8.1 | 83.1 | 3.14 | 42.0 | 0.00 | | | 520 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-------|-------|-------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 33 9.0 N | 123 13.2 W | 12/05/87 | 0638 GMT | 4305 M | 340 | 17 KT | | | | 1015.6 MB | 14.8 C | 13.0 C | | | | |
| 1 0 ISL | 15.38 | 15.38 | 33.155 | 24.468 | 345.4 | 0.000 | 5.86 | 102.6 | 1.8 | 0.35 | 0.0 | 0.00 | 0.09 | 0.03 | 0 | |
| 1 10 | 15.38 | 15.38 | 33.154 | 24.467 | 345.8 | 0.035 | 5.87 | 102.8 | 1.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 10 | |
| 1 19 | 15.38 | 15.38 | 33.153 | 24.467 | 346.1 | 0.066 | 5.86 | 102.6 | 1.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 19 | |
| 1 20 ISL | 15.38 | 15.38 | 33.153 | 24.467 | 346.2 | 0.069 | 5.86 | 102.6 | 1.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 20 | |
| 1 30 ISL | 15.39 | 15.39 | 33.156 | 24.467 | 346.4 | 0.104 | 5.88 | 103.0 | 1.7 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 30 | |
| 1 31 | 15.39 | 15.39 | 33.156 | 24.467 | 346.5 | 0.107 | 5.88 | 103.0 | 1.7 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 31 | |
| 1 41 | 15.28 | 15.27 | 33.146 | 24.484 | 345.2 | 0.142 | 5.89 | 102.9 | 2.8 | 0.35 | 0.0 | 0.00 | 0.06 | 0.07 | 41 | |
| 1 50 | 14.85 | 14.84 | 33.116 | 24.554 | 338.7 | 0.173 | 5.96 | 103.2 | 2.7 | 0.36 | 0.0 | 0.00 | 0.16 | 0.06 | 50 | |
| 1 60 | 14.18 | 14.17 | 33.090 | 24.676 | 327.3 | 0.206 | 6.05 | 103.4 | 3.2 | 0.37 | 0.0 | 0.00 | 0.23 | 0.11 | 60 | |
| 1 70 | 14.07 | 14.06 | 33.105 | 24.711 | 324.2 | 0.238 | 6.06 | 103.3 | 3.5 | 0.38 | 0.0 | 0.00 | 0.28 | 0.13 | 71 | |
| 1 75 ISL | 14.01 | 14.00 | 33.107 | 24.725 | 323.1 | 0.255 | 6.04 | 102.8 | 3.5 | 0.39 | 0.0 | 0.01 | 0.37 | 0.17 | 76 | |
| 1 84 | 13.89 | 13.88 | 33.138 | 24.774 | 318.6 | 0.284 | 6.00 | 101.9 | 3.6 | 0.41 | 0.1 | 0.04 | 0.50 | 0.23 | 85 | |
| 1 99 | 13.59 | 13.58 | 33.347 | 24.998 | 297.8 | 0.330 | 5.69 | 96.2 | 4.1 | 0.47 | 1.8 | 0.20 | 0.28 | 0.20 | 100 | |
| 1 100 ISL | 13.54 | 13.53 | 33.349 | 25.009 | 296.7 | 0.333 | 5.67 | 95.7 | 4.2 | 0.48 | 2.0 | 0.20 | 0.27 | 0.20 | 101 | |
| 1 121 | 12.22 | 12.20 | 33.323 | 25.249 | 274.2 | 0.393 | 5.39 | 88.5 | 6.1 | 0.70 | 5.7 | 0.04 | 0.17 | 0.16 | 122 | |
| 1 125 ISL | 11.97 | 11.95 | 33.327 | 25.299 | 269.4 | 0.404 | 5.33 | 87.1 | 6.7 | 0.75 | 6.5 | 0.04 | 0.15 | 0.15 | 126 | |
| 1 145 | 10.85 | 10.83 | 33.390 | 25.552 | 245.6 | 0.455 | 5.01 | 79.9 | 10.3 | 0.98 | 10.8 | 0.02 | 0.08 | 0.09 | 146 | |
| 1 150 ISL | 10.63 | 10.61 | 33.424 | 25.617 | 239.5 | 0.467 | 4.91 | 77.9 | 11.4 | 1.05 | 11.9 | 0.02 | 0.07 | 0.08 | 151 | |
| 1 174 | 9.75 | 9.73 | 33.604 | 25.907 | 212.2 | 0.521 | 4.43 | 69.0 | 17.0 | 1.34 | 17.0 | 0.01 | 0.02 | 0.06 | 175 | |
| 1 200 ISL | 8.92 | 8.90 | 33.751 | 26.156 | 188.8 | 0.574 | 4.14 | 63.4 | 23.3 | 1.55 | 20.9 | 0.01 | 0.03 | 0.04 | 202 | |
| 1 203 | 8.84 | 8.82 | 33.768 | 26.182 | 186.3 | 0.579 | 4.09 | 62.5 | 24.1 | 1.58 | 21.3 | 0.01 | 0.03 | 0.04 | 205 | |
| 1 232 | 8.51 | 8.49 | 33.962 | 26.386 | 167.5 | 0.630 | 2.91 | 44.2 | 34.0 | 1.99 | 27.3 | 0.00 | | | 234 | |
| 1 250 ISL | 8.24 | 8.21 | 34.009 | 26.464 | 160.3 | 0.660 | 2.76 | 41.7 | 37.8 | 2.09 | 28.8 | 0.00 | | | 252 | |
| 1 270 | 7.92 | 7.89 | 34.029 | 26.527 | 154.5 | 0.691 | 2.59 | 38.8 | 41.1 | 2.16 | 29.6 | 0.00 | | | 272 | |
| 1 300 ISL | 7.50 | 7.47 | 34.050 | 26.605 | 147.4 | 0.737 | 2.28 | 33.8 | 47.0 | 2.32 | 31.6 | 0.00 | | | 302 | |
| 1 324 | 7.19 | 7.16 | 34.058 | 26.655 | 142.8 | 0.772 | 2.01 | 29.6 | 51.6 | 2.4 | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-------------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 49.0 N | 123 54.5 W | 12/05/87 | 1155 GMT | 4477 M | 340 | 16 KT | | | 1014.5 MB | 16.2 C | 13.4 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.97 | 14.97 | 33.115 | 24.526 | 339.9 | 0.000 | 5.94 | 103.1 | 3.1 | 0.37 | 0.0 | 0.00 | 0.15 | 0.03 | 0 |
| 1 | 1 | 14.97 | 14.97 | 33.115 | 24.526 | 339.9 | 0.003 | 5.94 | 103.1 | 3.1 | 0.37 | 0.0 | 0.00 | 0.15 | 0.03 | 1 |
| 1 | 10 ISL | 14.98 | 14.98 | 33.114 | 24.524 | 340.4 | 0.034 | 5.95 | 103.3 | 3.0 | 0.36 | 0.0 | 0.00 | 0.15 | 0.02 | 10 |
| 1 | 11 | 14.98 | 14.98 | 33.114 | 24.524 | 340.5 | 0.037 | 5.95 | 103.3 | 3.0 | 0.36 | 0.0 | 0.00 | 0.15 | 0.02 | 11 |
| 1 | 20 ISL | 14.99 | 14.99 | 33.113 | 24.521 | 341.0 | 0.068 | 5.97 | 103.7 | 2.9 | 0.36 | 0.0 | 0.00 | 0.14 | 0.03 | 20 |
| 1 | 21 | 14.99 | 14.99 | 33.113 | 24.521 | 341.0 | 0.071 | 5.97 | 103.7 | 2.9 | 0.36 | 0.0 | 0.00 | 0.14 | 0.03 | 21 |
| 1 | 30 ISL | 14.70 | 14.70 | 33.114 | 24.584 | 335.3 | 0.102 | 5.99 | 103.4 | 3.1 | 0.36 | 0.0 | 0.00 | 0.15 | 0.04 | 30 |
| 1 | 32 | 14.61 | 14.61 | 33.114 | 24.604 | 333.5 | 0.109 | 6.00 | 103.4 | 3.1 | 0.36 | 0.0 | 0.00 | 0.16 | 0.04 | 32 |
| 1 | 41 | 14.11 | 14.10 | 33.100 | 24.698 | 324.7 | 0.138 | 6.07 | 103.6 | 3.0 | 0.38 | 0.0 | 0.00 | 0.21 | 0.05 | 41 |
| 1 | 50 | 13.96 | 13.95 | 33.137 | 24.758 | 319.2 | 0.167 | 6.06 | 103.1 | 2.8 | 0.38 | 0.0 | 0.00 | 0.28 | 0.07 | 50 |
| 1 | 60 | 13.58 | 13.57 | 33.178 | 24.868 | 309.0 | 0.199 | 6.01 | 101.5 | 2.9 | 0.41 | 0.1 | 0.06 | 0.42 | 0.12 | 60 |
| 1 | 70 | 13.49 | 13.48 | 33.226 | 24.923 | 304.0 | 0.229 | 5.96 | 100.5 | 2.9 | 0.44 | 0.2 | 0.14 | 0.39 | 0.16 | 71 |
| 1 | 75 ISL | 13.34 | 13.33 | 33.225 | 24.953 | 301.3 | 0.244 | 5.90 | 99.1 | 3.1 | 0.47 | 0.8 | 0.15 | 0.35 | 0.16 | 76 |
| 1 | 83 | 13.08 | 13.07 | 33.230 | 25.009 | 296.1 | 0.268 | 5.80 | 96.9 | 3.5 | 0.53 | 1.9 | 0.22 | 0.27 | 0.14 | 84 |
| 1 | 98 | 12.85 | 12.84 | 33.373 | 25.165 | 281.7 | 0.312 | 5.71 | 95.1 | 4.3 | 0.66 | 3.7 | 0.74 | 0.15 | 0.16 | 99 |
| 1 | 100 ISL | 12.77 | 12.76 | 33.370 | 25.179 | 280.4 | 0.317 | 5.67 | 94.2 | 4.5 | 0.67 | 4.0 | 0.69 | 0.14 | 0.16 | 101 |
| 1 | 118 | 11.81 | 11.79 | 33.320 | 25.323 | 266.9 | 0.367 | 5.17 | 84.2 | 7.6 | 0.84 | 8.0 | 0.03 | 0.11 | 0.11 | 119 |
| 1 | 125 ISL | 11.32 | 11.30 | 33.364 | 25.447 | 255.2 | 0.385 | 4.88 | 78.6 | 9.9 | 0.99 | 10.7 | 0.02 | 0.08 | 0.09 | 126 |
| 1 | 143 | 10.15 | 10.13 | 33.536 | 25.787 | 223.1 | 0.428 | 4.13 | 64.9 | 16.5 | 1.41 | 17.7 | 0.01 | 0.02 | 0.05 | 144 |
| 1 | 150 ISL | 9.90 | 9.88 | 33.597 | 25.876 | 214.6 | 0.443 | 3.90 | 61.0 | 18.8 | 1.52 | 19.5 | 0.01 | 0.02 | 0.07 | 151 |
| 1 | 172 | 9.39 | 9.37 | 33.762 | 26.090 | 194.7 | 0.488 | 3.40 | 52.6 | 24.7 | 1.75 | 23.3 | 0.01 | 0.02 | 0.12 | 173 |
| 1 | 200 ISL | 8.84 | 8.82 | 33.887 | 26.275 | 177.5 | 0.540 | 3.31 | 50.6 | 29.0 | 1.82 | 25.0 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 201 | 8.82 | 8.80 | 33.890 | 26.281 | 177.0 | 0.542 | 3.31 | 50.6 | 29.1 | 1.82 | 25.0 | 0.01 | 0.00 | 0.03 | 203 |
| 1 | 229 | 8.29 | 8.27 | 33.974 | 26.428 | 163.3 | 0.590 | 3.07 | 46.4 | 34.3 | 1.97 | 27.3 | 0.01 | | | 231 |
| 1 | 250 ISL | 8.06 | 8.03 | 34.002 | 26.485 | 158.2 | 0.623 | 2.88 | 43.3 | 37.5 | 2.04 | 28.5 | 0.01 | | | 252 |
| 1 | 270 | 7.87 | 7.84 | 34.014 | 26.523 | 154.9 | 0.655 | 2.69 | 40.3 | 40.5 | 2.12 | 29.5 | 0.01 | | | 272 |
| 1 | 300 ISL | 7.48 | 7.45 | 34.037 | 26.597 | 148.1 | 0.700 | 2.35 | 34.9 | 45.8 | 2.35 | 31.5 | 0.00 | | | 302 |
| 1 | 321 | 7.19 | 7.16 | 34.050 | 26.648 | 143.4 | 0.731 | 2.10 | 30.9 | 49.7 | 2.51 | 32.9 | 0.00 | | | 324 |
| 1 | 382 | 6.48 | 6.45 | 34.073 | 26.763 | 133.0 | 0.815 | 1.46 | 21.2 | 62.0 | 2.65 | 37.0 | 0.00 | | | 385 |
| 1 | 400 ISL | 6.34 | 6.30 | 34.089 | 26.794 | 130.2 | 0.839 | 1.28 | 18.5 | 65.2 | 2.73 | 37.9 | 0.00 | | | 403 |
| 1 | 446 | 6.04 | 6.00 | 34.136 | 26.870 | 123.4 | 0.897 | 0.87 | 12.5 | 72.6 | 2.93 | 39.9 | 0.00 | | | 450 |
| 1 | 500 ISL | 5.73 | 5.69 | 34.179 | 26.943 | 116.9 | 0.962 | 0.61 | 8.7 | 79.7 | 3.06 | 41.3 | 0.00 | | | 504 |
| 1 | 517 | 5.63 | 5.59 | 34.193 | 26.966 | 114.8 | 0.982 | 0.53 | 7.5 | 82.0 | 3.10 | 41.8 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 82 47

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|-------------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 34 17.0 N | 120 2.0 W | 11/05/87 | 0222 GMT | 594 M | 270 | 15 KT | 270 03 04 | 1 | 1010.9 MB | 15.9 C | 14.3 C | 5/8 | AC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.58 | 15.58 | 33.586 | 24.755 | 318.1 | 0.000 | 6.50 | 114.6 | 7.7 | 0.36 | 0.2 | 0.01 | 1.82 | 0.38 | 0 |
| 1 | 1 A | 15.58 | 15.58 | 33.586 | 24.755 | 318.1 | 0.003 | 6.50 | 114.6 | 7.7 | 0.36 | 0.2 | 0.01 | 1.82 | 0.38 | 1 |
| 1 | 10 ISL | 13.67 | 13.67 | 33.566 | 25.148 | 281.0 | 0.030 | 5.81 | 98.5 | 9.3 | 0.63 | 3.2 | 0.27 | 3.77 | 0.79 | 10 |
| 1 | 11 | 13.38 | 13.38 | 33.567 | 25.208 | 275.3 | 0.033 | 5.70 | 96.1 | 9.6 | 0.68 | 3.7 | 0.31 | 4.00 | 0.84 | 11 |
| 1 | 20 ISL | 12.31 | 12.31 | 33.581 | 25.429 | 254.5 | 0.057 | 4.83 | 79.6 | 11.7 | 1.02 | 9.4 | 0.35 | 2.29 | 0.61 | 20 |
| 1 | 26 | 11.91 | 11.91 | 33.596 | 25.517 | 246.3 | 0.072 | 4.33 | 70.8 | 13.1 | 1.22 | 13.1 | 0.37 | 0.64 | 0.35 | 26 |
| 1 | 30 ISL | 11.71 | 11.71 | 33.616 | 25.570 | 241.3 | 0.082 | 4.20 | 68.4 | 13.9 | 1.28 | 14.2 | 0.33 | 0.52 | 0.28 | 30 |
| 1 | 41 | 11.31 | 11.30 | 33.667 | 25.683 | 230.8 | 0.108 | 4.02 | 64.9 | 16.1 | 1.37 | 15.9 | 0.19 | 0.20 | 0.19 | 41 |
| 1 | 50 ISL | 10.93 | 10.92 | 33.686 | 25.766 | 223.1 | 0.128 | 3.78 | 60.5 | 17.7 | 1.46 | 17.6 | 0.08 | 0.12 | 0.17 | 50 |
| 1 | 56 | 10.70 | 10.69 | 33.697 | 25.815 | 218.5 | 0.141 | 3.63 | 57.8 | 18.7 | 1.51 | 18.6 | 0.03 | 0.10 | 0.16 | 56 |
| 1 | 70 | 10.40 | 10.39 | 33.745 | 25.906 | 210.2 | 0.171 | 3.39 | 53.7 | 21.0 | 1.62 | 20.3 | 0.03 | 0.06 | 0.16 | 71 |
| 1 | 75 ISL | 10.27 | 10.26 | 33.784 | 25.958 | 205.3 | 0.182 | 3.25 | 51.3 | 22.6 | 1.69 | 21.3 | 0.03 | 0.07 | 0.13 | 76 |
| 1 | 85 | 9.93 | 9.92 | | | | | | | | | | | | | 86 |
| 1 | 99 | 9.26 | 9.25 | 33.985 | 26.284 | 174.8 | 0.227 | 2.55 | 39.4 | 31.3 | 2.02 | 26.3 | 0.03 | 0.02 | 0.12 | 100 |
| 1 | 100 ISL | 9.23 | 9.22 | 33.991 | 26.293 | 173.9 | 0.229 | 2.53 | 39.1 | 31.6 | 2.03 | 26.4 | 0.03 | 0.02 | 0.12 | 101 |
| 1 | 115 | 9.01 | 9.00 | 34.061 | 26.383 | 165.6 | 0.254 | 2.22 | 34.1 | 35.4 | 2.18 | 28.0 | 0.03 | 0.03 | 0.12 | 116 |
| 1 | 125 ISL | 8.92 | 8.91 | 34.089 | 26.420 | 162.3 | 0.271 | 2.00 | 30.7 | 37.4 | 2.26 | 28.9 | 0.02 | 0.04 | 0.18 | 126 |
| 1 | 139 | 8.84 | 8.83 | 34.112 | 26.450 | 159.7 | 0.293 | 1.77 | 27.1 | 39.5 | 2.34 | 29.8 | 0.01 | 0.05 | 0.26 | 140 |
| 1 | 150 ISL | 8.79 | 8.77 | 34.121 | 26.466 | 158.5 | 0.311 | 1.79 | 27.4 | 40.0 | 2.34 | 29.8 | 0.04 | 0.04 | 0.23 | 151 |
| 1 | 169 | 8.72 | 8.70 | 34.130 | 26.484 | 157.1 | 0.341 | 1.83 | 28.0 | 40.5 | 2.34 | 29.7 | 0.11 | 0.03 | 0.15 | 170 |
| 1 | 200 | 8.60 | 8.58 | 34.155 | 26.523 | 153.9 | 0.389 | 1.63 | 24.8 | 43.4 | 2.43 | 30.5 | 0.18 | 0.03 | 0.16 | 202 |
| 1 | 237 | 8.41 | 8.39 | 34.171 | 26.565 | 150.6 | 0.445 | 1.39 | 21.1 | 46.4 | 2.53 | 31.6 | 0.08 | 0.05 | 0.25 | 239 |
| 1 | 250 ISL | 8.33 | 8.30 | 34.175 | 26.581 | 149.3 | 0.465 | 1.30 | 19.7 | 47.9 | 2.58 | 32.0 | 0.05 | 0.05 | 0.25 | 252 |
| 1 | 286 | 8.08 | 8.05 | 34.184 | 26.625 | 145.6 | 0.518 | 1.06 | 16.0 | 52.7 | 2.71 | 33.2 | 0.01 | 0.04 | 0.25 | 288 |
| 1 | 300 ISL | 7.97 | 7.94 | 34.189 | 26.646 | 143.8 | 0.538 | 0.97 | 14.6 | 54.6 | 2.76 | 33.6 | 0. | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 40.6

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 34 13.4 N | 119 24.7 W | 10/05/87 | 2141 GMT | 38 M | 270 | 02 KT | 290 01 05 | 2 | 1012.1 MB | 19.0 C | 16.7 C | 8/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 18.42 | 18.42 | 33.547 | 24.057 | 384.6 | 0.000 | 5.94 | 110.5 | 3.3 | 0.23 | 0.1 | 0.00 | 0.63 | 0.06 | 0 |
| 1 | 1 | 18.42 | 18.42 | 33.547 | 24.057 | 384.6 | 0.004 | 5.94 | 110.5 | 3.3 | 0.23 | 0.1 | 0.00 | 0.63 | 0.06 | 1 |
| 1 | 10 ISL | 16.84 | 16.84 | 33.528 | 24.423 | 350.0 | 0.037 | 6.21 | 112.1 | 3.8 | 0.26 | 0.1 | 0.00 | 0.52 | 0.07 | 10 |
| 1 | 11 | 16.56 | 16.56 | 33.527 | 24.488 | 343.9 | 0.040 | 6.25 | 112.2 | 3.9 | 0.27 | 0.1 | 0.00 | 0.51 | 0.07 | 11 |
| 1 | 20 ISL | 14.34 | 14.34 | 33.512 | 24.968 | 298.4 | 0.069 | 6.23 | 107.1 | 5.3 | 0.34 | 0.0 | 0.01 | 1.41 | 0.36 | 20 |
| 1 | 21 | 14.11 | 14.11 | 33.513 | 25.016 | 293.8 | 0.072 | 6.23 | 106.6 | 5.5 | 0.35 | 0.0 | 0.01 | 1.54 | 0.40 | 21 |
| 1 | 30 ISL | 13.10 | 13.10 | 33.522 | 25.229 | 273.8 | 0.098 | 5.04 | 84.4 | 9.6 | 0.84 | 5.0 | 0.48 | 2.38 | 0.54 | 30 |
| 1 | 32 | 12.87 | 12.87 | 33.526 | 25.278 | 269.2 | 0.103 | 4.77 | 79.5 | 10.5 | 0.95 | 6.1 | 0.58 | 2.57 | 0.57 | 32 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 34 10.7 N | 119 30.5 W | 10/05/87 | 1903 GMT | 173 M | 200 | 02 KT | 270 01 09 | 2 | 1013.2 MB | 17.8 C | 16.1 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 16.93 | 16.93 | 33.535 | 24.407 | 351.2 | 0.000 | 6.08 | 110.0 | 3.4 | 0.26 | 0.1 | 0.00 | 0.42 | 0.05 | 0 |
| 1 | 10 | 16.63 | 16.63 | 33.528 | 24.472 | 345.3 | 0.035 | 6.13 | 110.2 | 3.2 | 0.26 | 0.1 | 0.00 | 0.51 | 0.10 | 10 |
| 1 | 20 | 15.25 | 15.25 | 33.512 | 24.772 | 317.1 | 0.068 | 6.30 | 110.3 | 3.8 | 0.30 | 0.1 | 0.00 | 0.94 | 0.27 | 20 |
| 1 | 30 ISL | 13.18 | 13.18 | 33.507 | 25.202 | 276.4 | 0.098 | 5.26 | 88.3 | 7.3 | 0.73 | 3.7 | 0.72 | 1.02 | 0.56 | 30 |
| 1 | 31 | 13.00 | 13.00 | 33.508 | 25.239 | 272.9 | 0.100 | 5.13 | 85.8 | 7.7 | 0.78 | 4.2 | 0.80 | 1.03 | 0.58 | 31 |
| 1 | 40 | 12.48 | 12.48 | 33.518 | 25.348 | 262.7 | 0.124 | 4.55 | 75.2 | 9.7 | 1.01 | 7.5 | 1.18 | 0.83 | 0.56 | 40 |
| 1 | 50 | 11.74 | 11.73 | 33.540 | 25.505 | 247.9 | 0.150 | 4.37 | 71.1 | 11.3 | 1.14 | 12.6 | 0.14 | 0.37 | 0.27 | 50 |
| 1 | 62 | 11.00 | 10.99 | 33.600 | 25.687 | 230.9 | 0.179 | 3.97 | 63.6 | 15.2 | 1.35 | 16.2 | 0.03 | 0.15 | 0.15 | 62 |
| 1 | 71 | 10.48 | 10.47 | 33.676 | 25.838 | 216.7 | 0.199 | 3.59 | 56.9 | 18.4 | 1.54 | 19.0 | 0.06 | 0.07 | 0.13 | 72 |
| 1 | 75 ISL | 10.33 | 10.32 | 33.709 | 25.890 | 211.9 | 0.207 | 3.43 | 54.2 | 20.1 | 1.61 | 20.0 | 0.08 | 0.05 | 0.14 | 76 |
| 1 | 83 | 10.11 | 10.10 | 33.766 | 25.972 | 204.2 | 0.224 | 3.18 | 50.0 | 23.2 | 1.72 | 21.5 | 0.12 | 0.04 | 0.15 | 84 |
| 100 ISL | 9.80 | 9.79 | 33.814 | 26.062 | 196.0 | 0.258 | 3.19 | 49.8 | 24.5 | 1.74 | 22.6 | 0.04 | 0.02 | 0.08 | 101 | |
| 1 | 104 | 9.75 | 9.74 | 33.821 | 26.075 | 194.8 | 0.266 | 3.19 | 49.8 | 24.8 | 1.75 | 22.7 | 0.02 | 0.02 | 0.06 | 105 |
| 125 ISL | 9.53 | 9.52 | 33.908 | 26.180 | 185.2 | 0.306 | 2.83 | 44.0 | 28.0 | 1.91 | 24.5 | 0.06 | 0.02 | 0.09 | 126 | |
| 1 | 129 | 9.50 | 9.49 | 33.925 | 26.198 | 183.5 | 0.313 | 2.75 | 42.7 | 28.6 | 1.94 | 24.9 | 0.07 | 0.02 | 0.09 | 130 |
| 150 ISL | 9.32 | 9.30 | 33.986 | 26.276 | 176.6 | 0.351 | 2.57 | 39.8 | 31.0 | 2.03 | 26.1 | 0.05 | 0.02 | 0.11 | 151 | |
| 1 | 155 | 9.28 | 9.26 | 34.000 | 26.293 | 175.0 | 0.360 | 2.53 | 39.1 | 31.6 | 2.05 | 26.4 | 0.04 | 0.02 | 0.11 | 156 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 52.7 N | 120 8.0 W | 10/05/87 | 1158 GMT | 99 M | 320 | 21 KT | | | 1012.1 MB | 14.0 C | 12.9 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.09 | 14.09 | 33.555 | 25.052 | 289.8 | 0.000 | 5.44 | 93.0 | 8.6 | 0.70 | 5.5 | 0.16 | 0.69 | 0.27 | 0 |
| 1 | 1 | 14.09 | 14.09 | 33.555 | 25.052 | 289.8 | 0.003 | 5.44 | 93.0 | 8.6 | 0.70 | 5.5 | 0.16 | 0.69 | 0.27 | 1 |
| 1 | 10 ISL | 12.89 | 12.89 | 33.575 | 25.312 | 265.4 | 0.028 | 5.03 | 83.9 | 10.7 | 0.90 | 8.3 | 0.22 | 0.77 | 0.30 | 10 |
| 1 | 11 | 12.71 | 12.71 | 33.579 | 25.350 | 261.8 | 0.031 | 4.96 | 82.4 | 11.0 | 0.93 | 8.8 | 0.23 | 0.78 | 0.30 | 11 |
| 1 | 20 ISL | 12.17 | 12.17 | 33.605 | 25.474 | 250.1 | 0.054 | 4.46 | 73.3 | 13.2 | 1.12 | 11.9 | 0.29 | 0.62 | 0.31 | 20 |
| 1 | 21 | 12.13 | 12.13 | 33.609 | 25.485 | 249.1 | 0.056 | 4.40 | 72.3 | 13.5 | 1.14 | 12.2 | 0.29 | 0.59 | 0.31 | 21 |
| 1 | 30 ISL | 11.50 | 11.50 | 33.666 | 25.647 | 234.0 | 0.078 | 3.96 | 64.2 | 16.4 | 1.34 | 15.4 | 0.26 | 0.33 | 0.27 | 30 |
| 1 | 32 | 11.36 | 11.36 | 33.680 | 25.684 | 230.5 | 0.082 | 3.87 | 62.5 | 17.2 | 1.39 | 16.2 | 0.24 | 0.27 | 0.26 | 32 |
| 1 | 42 | | | 33.758 | | | 0.105 | 3.38 | 53.9 | 21.7 | 1.61 | 20.2 | 0.15 | 0.10 | 0.16 | 42 |
| 50 ISL | 10.336 | 10.330 | 33.749 | 25.919 | 208.5 | 0.122 | 3.32 | 52.5 | 22.2 | 1.63 | 20.7 | 0.12 | 0.08 | 0.16 | 50 | |
| 1 | 52 | 10.25 | 10.24 | 33.755 | 25.939 | 206.7 | 0.126 | 3.30 | 52.1 | 22.3 | 1.64 | 20.8 | 0.11 | 0.08 | 0.16 | 52 |
| 1 | 62 | 9.97 | 9.96 | 33.801 | 26.022 | 198.9 | 0.146 | 3.17 | 49.7 | 24.1 | 1.71 | 22.0 | 0.05 | 0.03 | 0.10 | 62 |
| 1 | 72 | 9.89 | 9.88 | 33.822 | 26.052 | 196.3 | 0.166 | 3.10 | 48.5 | 24.8 | 1.75 | 22.6 | 0.05 | 0.03 | 0.10 | 73 |
| 1 | 75 ISL | 9.84 | 9.83 | 33.832 | 26.068 | 194.8 | 0.172 | 3.07 | 48.0 | 25.3 | 1.77 | 22.9 | 0.05 | 0.03 | 0.10 | 76 |
| 1 | 91 | 9.58 | 9.57 | 33.884 | 26.153 | 187.1 | 0.202 | 2.88 | 44.8 | 27.7 | 1.86 | 24.2 | 0.06 | 0.02 | 0.11 | 92 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|-------|--------|-------|-----|
| 33 44.7 N | 120 24.5 W | 10/05/87 | 0845 GMT | 982 M | 310 | 22 KT | | | 1013.1 MB | 14.2 C | 12.9 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS | |
| 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 | D.BAR | |
| 1 | 0 ISL | 14.46 | 14.46 | 33.511 | 24.941 | 300.4 | 0.000 | 6.02 | 103.7 | 4.7 | 0.47 | 2.0 | 0.05 | 0.43 | 0.09 | 0 |
| 1 | 1 | 14.46 | 14.46 | 33.511 | 24.941 | 300.4 | 0.003 | 6.02 | 103.7 | 4.7 | 0.47 | 2.0 | 0.05 | 0.43 | 0.09 | 1 |
| 1 | 10 | 14.46 | 14.46 | 33.509 | 24.939 | 300.8 | 0.030 | 6.02 | 103.7 | 4.7 | 0.49 | 2.0 | 0.06 | 0.44 | 0.08 | 10 |
| 1 | 20 | 14.41 | 14.41 | 33.510 | 24.951 | 300.0 | 0.060 | 6.01 | 103.4 | 4.7 | 0.48 | 2.1 | 0.06 | 0.43 | 0.09 | 20 |
| 1 | 30 ISL | 14.04 | 14.04 | 33.504 | 25.024 | 293.3 | 0.090 | 5.95 | 101.6 | 4.9 | 0.53 | 2.8 | 0.09 | 0.40 | 0.16 | 30 |
| 1 | 31 | 14.00 | 14.00 | 33.503 | 25.032 | 292.6 | 0.093 | 5.94 | 101.4 | 4.9 | 0.54 | 2.9 | 0.09 | 0.40 | 0.17 | 31 |
| 1 | 42 | 12.07 | 12.06 | 33.511 | 25.421 | 255.8 | 0.123 | 5.17 | 84.7 | 8.8 | 1.00 | 9.4 | 0.29 | 0.24 | 0.15 | 42 |
| 1 | 50 | 11.80 | 11.79 | 33.523 | 25.481 | 250.2 | 0.143 | 5.01 | 81.6 | 9.6 | 1.06 | 10.6 | 0.34 | 0.25 | 0.22 | 50 |
| 1 | 61 | 11.18 | 11.17 | 33.575 | 25.635 | 235.8 | 0.170 | 4.52 | 72.7 | 14.1 | 1.26 | 14.1 | 0.46 | 0.28 | 0.24 | 61 |
| 1 | 70 | 10.79 | 10.78 | 33.619 | 25.739 | 226.0 | 0.191 | 4.15 | 66.2 | 17.1 | 1.41 | 16.9 | 0.40 | 0.25 | 0.25 | 71 |
| 1 | 75 ISL | 10.46 | 10.45 | 33.663 | 25.831 | 217.4 | 0.202 | 3.87 | 61.3 | 19.5 | 1.52 | 18.9 | 0.31 | 0.21 | 0.21 | 76 |
| 1 | 85 | 9.82 | 9.81 | 33.758 | 26.014 | 200.1 | 0.223 | 3.34 | 52.2 | 24.2 | 1.73 | 22.5 | 0.12 | 0.13 | 0.12 | 86 |
| 100 | ISL | 9.45 | 9.44 | 33.835 | 26.135 | 188.9 | 0.252 | 3.00 | 46.5 | 27.9 | 1.86 | 24.6 | 0.04 | 0.06 | 0.16 | 101 |
| 1 | 101 | 9.44 | 9.43 | 33.838 | 26.140 | 188.5 | 0.254 | 2.99 | 46.4 | 28.1 | 1.86 | 24.7 | 0.04 | 0.06 | 0.16 | 102 |
| 1 | 118 | 9.18 | 9.17 | 33.898 | 26.229 | 180.4 | 0.285 | 2.83 | 43.6 | 30.1 | 1.93 | 25.8 | 0.03 | 0.05 | 0.17 | 119 |
| 125 | ISL | 9.12 | 9.11 | 33.919 | 26.255 | 178.0 | 0.298 | 2.75 | 42.3 | 30.9 | 1.96 | 26.2 | 0.03 | 0.07 | 0.18 | 126 |
| 1 | 143 | 8.96 | 8.94 | 33.963 | 26.315 | 172.6 | 0.329 | 2.58 | 39.6 | 32.8 | 2.04 | 27.2 | 0.03 | 0.11 | 0.21 | 144 |
| 150 | ISL | 8.84 | 8.82 | 33.972 | 26.341 | 170.3 | 0.341 | 2.60 | 39.8 | 33.5 | 2.05 | 27.5 | 0.03 | 0.09 | 0.19 | 151 |
| 1 | 173 | 8.42 | 8.40 | 33.994 | 26.424 | 162.8 | 0.379 | 2.69 | 40.8 | 35.9 | 2.07 | 28.4 | 0.02 | 0.03 | 0.12 | 174 |
| 200 | ISL | 8.14 | 8.12 | 34.036 | 26.499 | 156.0 | 0.422 | 2.46 | 37.1 | 39.4 | 2.18 | 29.5 | 0.02 | 0.04 | 0.12 | 202 |
| 1 | 201 | 8.13 | 8.11 | 34.037 | 26.501 | 155.8 | 0.424 | 2.45 | 36.9 | 39.5 | 2.18 | 29.5 | 0.02 | 0.04 | 0.12 | 203 |
| 1 | 229 | 7.85 | 7.83 | 34.069 | 26.568 | 149.8 | 0.467 | 2.15 | 32.2 | 43.8 | 2.32 | 31.3 | 0.01 | | | 231 |
| 250 | ISL | 7.66 | 7.64 | 34.107 | 26.626 | 144.6 | 0.498 | 1.79 | 26.7 | 47.8 | 2.47 | 32.8 | 0.01 | | | 252 |
| 1 | 268 | 7.50 | 7.47 | 34.139 | 26.674 | 140.3 | 0.523 | 1.48 | 22.0 | 51.2 | 2.59 | 34.0 | 0.01 | | | 270 |
| 300 | ISL | 7.24 | 7.21 | 34.171 | 26.737 | 134.8 | 0.567 | 1.16 | 17.1 | 55.9 | 2.73 | 35.5 | 0.00 | | | 302 |
| 1 | 321 | 7.09 | 7.06 | 34.187 | 26.770 | 131.8 | 0.595 | 1.02 | 15.0 | 58.7 | 2.79 | 36.3 | 0.00 | | | 324 |
| 1 | 380 | 6.79 | 6.75 | 34.242 | 26.855 | 124.5 | 0.671 | 0.67 | 9.8 | 66.2 | 2.94 | 38.0 | 0.00 | | | 383 |
| 400 | ISL | 6.70 | 6.66 | 34.247 | 26.871 | 123.2 | 0.696 | 0.62 | 9.0 | 67.8 | 2.97 | 38.4 | 0.00 | | | 403 |
| 1 | 446 | 6.49 | 6.45 | 34.253 | 26.905 | 120.6 | 0.752 | 0.55 | 8.0 | 71.2 | 3.02 | 39.1 | 0.00 | | | 450 |
| 500 | ISL | 6.19 | 6.15 | 34.275 | 26.961 | 115.7 | 0.816 | 0.43 | 6.2 | 76.3 | 3.09 | 40.2 | 0.00 | | | 504 |
| 1 | 518 | 6.09 | 6.04 | 34.283 | 26.980 | 114.0 | 0.836 | 0.39 | 5.6 | 78.0 | 3.12 | 40.6 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|-------|--------|-------|-----|
| 33 34.7 N | 120 45.3 W | 10/05/87 | 0505 GMT | 1334 M | 220 | 20 KT | | | 1014.7 MB | 14.0 C | 13.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS | |
| 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 | D.BAR | |
| 1 | 0 ISL | 14.43 | 14.43 | 33.564 | 24.988 | 295.9 | 0.000 | 6.15 | 105.9 | 7.3 | 0.52 | 2.3 | 0.06 | 0.77 | 0.39 | 0 |
| 1 | 1 | 14.43 | 14.43 | 33.564 | 24.988 | 296.0 | 0.003 | 6.15 | 105.9 | 7.3 | 0.52 | 2.3 | 0.06 | 0.77 | 0.39 | 1 |
| 1 | 10 | 14.43 | 14.43 | 33.560 | 24.985 | 296.5 | 0.030 | 6.15 | 105.9 | 7.3 | 0.53 | 2.3 | 0.06 | 0.74 | 0.30 | 10 |
| 1 | 20 ISL | 14.41 | 14.41 | 33.561 | 24.990 | 296.3 | 0.059 | 6.16 | 106.0 | 7.1 | 0.52 | 2.4 | 0.06 | 0.75 | 0.31 | 20 |
| 1 | 21 | 14.41 | 14.41 | 33.561 | 24.990 | 296.3 | 0.062 | 6.16 | 106.0 | 7.1 | 0.52 | 2.4 | 0.06 | 0.75 | 0.31 | 21 |
| 1 | 30 | 13.96 | 13.96 | 33.572 | 25.094 | 286.8 | 0.088 | 5.94 | 101.3 | 6.4 | 0.57 | 3.4 | 0.08 | 0.66 | 0.27 | 30 |
| 1 | 40 | 13.73 | 13.72 | 33.566 | 25.136 | 282.9 | 0.117 | 5.83 | 99.0 | 6.6 | 0.62 | 3.9 | 0.11 | 1.22 | 0.28 | 40 |
| 1 | 50 ISL | 12.97 | 12.96 | 33.568 | 25.292 | 268.4 | 0.145 | 5.51 | 92.1 | 7.9 | 0.81 | 6.5 | 0.28 | 0.63 | 0.24 | 50 |
| 1 | 51 | 12.88 | 12.87 | 33.572 | 25.312 | 266.4 | 0.147 | 5.47 | 91.2 | 8.1 | 0.84 | 6.8 | 0.29 | 0.55 | 0.23 | 51 |
| 1 | 60 | 12.02 | 12.01 | 33.669 | 25.553 | 243.7 | 0.170 | 5.24 | 85.9 | 8.9 | 1.10 | 9.9 | 0.22 | 0.33 | 0.18 | 60 |
| 1 | 70 | 10.94 | 10.93 | 33.763 | 25.825 | 218.0 | 0.193 | 4.11 | 65.8 | 15.4 | 1.50 | 16.4 | 0.44 | 0.20 | 0.11 | 71 |
| 1 | 75 ISL | 10.57 | 10.56 | 33.790 | 25.911 | 209.8 | 0.204 | 3.66 | 58.2 | 18.5 | 1.65 | 19.3 | 0.38 | 0.15 | 0.12 | 76 |
| 1 | 84 | 10.08 | 10.07 | 33.827 | 26.024 | 199.2 | 0.222 | 3.04 | 47.8 | 23.2 | 1.84 | 23.3 | 0.17 | 0.09 | 0.14 | 85 |
| 1 | 99 | 9.58 | 9.57 | 33.901 | 26.166 | 186.0 | 0.251 | 2.59 | 40.3 | 27.4 | 1.98 | 25.8 | 0.02 | 0.12 | 0.16 | 100 |
| 100 | ISL | 9.56 | 9.55 | 33.904 | 26.172 | 185.5 | 0.253 | 2.59 | 40.3 | 27.6 | 1.99 | 25.9 | 0.02 | 0.12 | 0.16 | 101 |
| 1 | 118 | 9.23 | 9.22 | 33.941 | 26.254 | 178.0 | 0.286 | 2.52 | 38.9 | 30.4 | 2.04 | 26.9 | 0.02 | 0.08 | 0.20 | 119 |
| 125 | ISL | 9.10 | 9.09 | 33.959 | 26.289 | 174.7 | 0.298 | 2.51 | 38.6 | 31.3 | 2.05 | 27.3 | 0.02 | 0.08 | 0.20 | 126 |
| 1 | 144 | 8.79 | 8.77 | 34.005 | 26.375 | 166.9 | 0.331 | 2.48 | 37.9 | 33.7 | 2.09 | 28.1 | 0.02 | 0.07 | 0.21 | 145 |
| 150 | ISL | 8.72 | 8.70 | 34.013 | 26.392 | 165.4 | 0.341 | 2.46 | 37.6 | 34.5 | 2.10 | 28.3 | 0.02 | 0.07 | 0.21 | 151 |
| 1 | 173 | 8.47 | 8.45 | 34.033 | 26.447 | 160.6 | 0.378 | 2.39 | 36.3 | 37.6 | 2.16 | 29.1 | 0.02 | 0.06 | 0.21 | 174 |
| 200 | ISL | 8.10 | 8.08 | 34.056 | 26.521 | 153.9 | 0.421 | 2.29 | 34.5 | 41.2 | 2.23 | 30.3 | 0.02 | 0.02 | 0.22 | 202 |
| 1 | 202 | 8.07 | 8.05 | 34.058 | 26.527 | 153.4 | 0.424 | 2.28 | 34.3 | 41.5 | 2.24 | 30.4 | 0.02 | 0.02 | 0.22 | 204 |
| 1 | 231 | 7.77 | 7.75 | 34.096 | 26.601 | 146.7 | 0.467 | 2.03 | 30.3 | 46.3 | 2.36 | 31.9 | 0.02 | | | 233 |
| 250 | ISL | 7.57 | 7.55 | 34.111 | 26.642 | 143.1 | 0.495 | 1.79 | 26.6 | 50.3 | 2.47 | 33.1 | 0.01 | | | 252 |
| 1 | 270 | 7.39 | 7.36 | 34.128 | 26.681 | 139.6 | 0.523 | 1.52 | 22.5 | 54.3 | 2.58 | 34.3 | 0.01 | | | 272 |
| 300 | ISL | 7.23 | 7.20 | 34.172 | 26.739 | 134.6 | 0.564 | 1.22 | 18.0 | 58.0 | 2.70 | 35.5 | 0.02 | | | 302 |
| 1 | 325 | 7.10 | 7.07 | 34.206 | 26.784 | 130.6 | 0.597 | 1.02 | 15.0 | 60.5 | 2.77 | 36.3 | 0.02 | | | 328 |
| 1 | 383 | 6.60 | 6.56 | 34. | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|----------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 14.7 N | 121 26.6 W | 10/05/87 | 0057 GMT | 3828 M | 330 | 18 KT | 330 03 06 | 2 | 1015.1 MB | 15.5 C | 13.0 C | 8/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.60 | 15.60 | 33.205 | - 24.458 | 346.4 | 0.000 | 5.86 | 103.1 | 2.2 | 0.36 | 0.0 | 0.00 | 0.12 | 0.02 | 0 |
| 1 | 10 | 15.38 | 15.38 | 33.199 | 24.502 | 342.5 | 0.034 | 5.92 | 103.7 | 2.3 | 0.37 | 0.0 | 0.00 | 0.11 | 0.02 | 10 |
| 1 | 20 | 14.89 | 14.89 | 33.201 | 24.610 | 332.5 | 0.068 | 5.99 | 103.9 | 2.3 | 0.36 | 0.0 | 0.00 | 0.14 | 0.03 | 20 |
| 1 | 30 | 14.29 | 14.29 | 33.210 | 24.745 | 319.9 | 0.101 | 6.05 | 103.7 | 2.4 | 0.37 | 0.0 | 0.00 | 0.23 | 0.08 | 30 |
| 1 | 41 | 13.55 | 13.54 | 33.288 | 24.958 | 299.9 | 0.135 | 6.15 | 103.8 | 2.6 | 0.42 | 0.3 | 0.04 | 0.80 | 0.26 | 41 |
| 1 | 50 | 13.33 | 13.32 | 33.356 | 25.056 | 290.8 | 0.161 | 5.94 | 99.9 | 3.1 | 0.51 | 1.2 | 0.11 | 0.75 | 0.31 | 50 |
| 1 | 61 | 12.67 | 12.66 | 33.334 | 25.169 | 280.2 | 0.193 | 5.59 | 92.7 | 4.4 | 0.66 | 4.2 | 0.32 | 0.47 | 0.27 | 61 |
| 1 | 71 | 11.93 | 11.92 | 33.288 | 25.275 | 270.4 | 0.220 | 5.17 | 84.4 | 6.9 | 0.86 | 8.0 | 0.19 | 0.48 | 0.30 | 72 |
| | 75 ISL | 11.58 | 11.57 | 33.278 | 25.352 | 265.0 | 0.231 | 4.96 | 80.3 | 8.5 | 0.97 | 9.9 | 0.14 | 0.39 | 0.25 | 76 |
| 1 | 84 | 10.91 | 10.90 | 33.289 | 25.461 | 252.8 | 0.254 | 4.53 | 72.3 | 12.1 | 1.20 | 13.9 | 0.08 | 0.16 | 0.13 | 85 |
| 1 | 98 | 10.72 | 10.71 | 33.426 | 25.602 | 239.8 | 0.289 | 4.16 | 66.2 | 16.0 | 1.42 | 17.4 | 0.16 | 0.07 | 0.12 | 99 |
| 100 ISL | 10.65 | 10.64 | 33.457 | 25.638 | 236.4 | 0.294 | 4.08 | 64.8 | 16.7 | 1.45 | 17.9 | 0.15 | 0.07 | 0.12 | 101 | |
| 1 | 118 | 9.96 | 9.95 | 33.737 | 25.975 | 204.6 | 0.333 | 3.33 | 52.2 | 22.5 | 1.73 | 22.3 | 0.02 | 0.06 | 0.14 | 119 |
| 125 ISL | 9.75 | 9.74 | 33.787 | 26.049 | 197.7 | 0.347 | 3.28 | 51.2 | 23.8 | 1.76 | 23.2 | 0.02 | 0.05 | 0.13 | 126 | |
| 1 | 143 | 9.33 | 9.31 | | | | 0.382 | | | | | | | | | 144 |
| 150 ISL | 9.21 | 9.19 | 33.901 | 26.227 | 181.2 | 0.395 | 3.09 | 47.7 | 27.7 | 1.85 | 25.5 | 0.01 | 0.03 | 0.10 | 151 | |
| 1 | 173 | 8.90 | 8.88 | 33.910 | 26.283 | 176.2 | 0.436 | 2.92 | 44.7 | 30.1 | 1.93 | 26.3 | 0.01 | 0.01 | 0.06 | 174 |
| 200 ISL | 8.51 | 8.49 | 33.988 | 26.406 | 165.0 | 0.482 | 2.70 | 41.0 | 34.5 | 2.05 | 28.0 | 0.01 | 0.00 | 0.06 | 202 | |
| 1 | 202 | 8.48 | 8.46 | 33.993 | 26.414 | 164.2 | 0.485 | 2.69 | 40.8 | 34.8 | 2.06 | 28.1 | 0.01 | 0.00 | 0.06 | 204 |
| 1 | 231 | 8.00 | 7.98 | 34.034 | 26.519 | 154.6 | 0.531 | 2.59 | 38.9 | 39.8 | 2.15 | 29.3 | 0.01 | | | 233 |
| 250 ISL | 7.79 | 7.77 | 34.066 | 26.575 | 149.5 | 0.560 | 2.26 | 33.8 | 43.6 | 2.28 | 30.9 | 0.01 | | | 252 | |
| 1 | 270 | 7.61 | 7.58 | 34.096 | 26.625 | 145.1 | 0.590 | 1.87 | 27.8 | 47.6 | 2.42 | 32.6 | 0.01 | | | 272 |
| 300 ISL | 7.32 | 7.29 | 34.112 | 26.679 | 140.3 | 0.632 | 1.60 | 23.7 | 52.3 | 2.54 | 34.2 | 0.00 | | | 302 | |
| 1 | 325 | 7.08 | 7.05 | 34.121 | 26.720 | 136.7 | 0.667 | 1.43 | 21.0 | 56.0 | 2.63 | 35.2 | 0.00 | | | 328 |
| 1 | 384 | 6.57 | 6.55 | 34.182 | 26.837 | 126.1 | 0.745 | 0.83 | 12.1 | 66.6 | 2.89 | 38.2 | 0.00 | | | 387 |
| 400 ISL | 6.46 | 6.42 | 34.198 | 26.865 | 123.7 | 0.765 | 0.72 | 10.4 | 69.0 | 2.94 | 38.8 | 0.00 | | | 403 | |
| 1 | 446 | 6.19 | 6.15 | 34.242 | 26.935 | 117.4 | 0.820 | 0.50 | 7.2 | 75.2 | 3.06 | 40.1 | 0.00 | | | 450 |
| 500 ISL | 5.89 | 5.85 | 34.280 | 27.003 | 111.4 | 0.882 | 0.37 | 5.3 | 81.8 | 3.15 | 41.2 | 0.00 | | | 504 | |
| 1 | 515 | 5.81 | 5.77 | 34.291 | 27.022 | 109.7 | 0.898 | 0.33 | 4.7 | 83.6 | 3.17 | 41.5 | 0.00 | | | 519 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 54.7 N | 122 7.7 W | 09/05/87 | 1747 GMT | 4210 M | 330 | 12 KT | 340 03 07 | 2 | 1017.5 MB | 16.5 C | 13.8 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.32 | 15.32 | 33.305 | 24.596 | 333.2 | 0.000 | 5.92 | 103.6 | 1.2 | 0.39 | 0.0 | 0.00 | 0.18 | 0.04 | 0 |
| 10 ISL | 15.11 | 15.11 | 33.305 | 24.643 | 329.1 | 0.033 | 5.95 | 103.7 | 1.3 | 0.38 | 0.0 | 0.00 | 0.19 | 0.05 | 10 | |
| 1 | 16 | 14.98 | 14.98 | 33.306 | 24.672 | 326.5 | 0.053 | 5.97 | 103.8 | 1.3 | 0.38 | 0.0 | 0.00 | 0.19 | 0.05 | 16 |
| 20 ISL | 14.92 | 14.92 | 33.329 | 24.702 | 323.7 | 0.066 | 6.00 | 104.2 | 1.4 | 0.38 | 0.1 | 0.00 | 0.22 | 0.06 | 20 | |
| 30 ISL | 14.55 | 14.55 | 33.376 | 24.818 | 313.0 | 0.098 | 6.08 | 104.8 | 1.8 | 0.41 | 0.2 | 0.03 | 0.33 | 0.12 | 30 | |
| 1 | 31 | 14.50 | 14.50 | 33.380 | 24.832 | 311.7 | 0.101 | 6.09 | 104.9 | 1.8 | 0.41 | 0.2 | 0.03 | 0.35 | 0.13 | 31 |
| 1 | 39 | 13.78 | 13.77 | 33.366 | 24.972 | 298.6 | 0.125 | 6.10 | 103.5 | 2.1 | 0.44 | 0.7 | 0.08 | 0.49 | 0.21 | 39 |
| 1 | 50 | 12.79 | 12.78 | 33.352 | 25.159 | 280.9 | 0.157 | 5.80 | 96.4 | 3.1 | 0.62 | 3.6 | 0.44 | 0.71 | 0.36 | 50 |
| 1 | 60 | 12.08 | 12.07 | 33.359 | 25.302 | 267.6 | 0.184 | 5.26 | 86.1 | 5.9 | 0.86 | 8.0 | 0.20 | 0.47 | 0.30 | 60 |
| 1 | 69 | 11.61 | 11.60 | 33.396 | 25.418 | 256.7 | 0.208 | 4.94 | 80.1 | 8.2 | 1.02 | 10.8 | 0.13 | 0.39 | 0.23 | 70 |
| 75 ISL | 11.35 | 11.34 | 33.460 | 25.515 | 247.5 | 0.223 | 4.73 | 76.3 | 10.2 | 1.15 | 12.8 | 0.22 | 0.31 | 0.20 | 76 | |
| 1 | 79 | 11.20 | 11.19 | 33.509 | 25.581 | 241.4 | 0.233 | 4.58 | 73.7 | 11.6 | 1.24 | 14.1 | 0.28 | 0.25 | 0.19 | 80 |
| 1 | 93 | 10.76 | 10.75 | 33.649 | 25.769 | 223.9 | 0.266 | 3.99 | 63.6 | 17.1 | 1.52 | 18.8 | 0.07 | 0.09 | 0.13 | 94 |
| 100 ISL | 10.35 | 10.34 | 33.672 | 25.858 | 215.5 | 0.281 | 3.77 | 59.6 | 18.9 | 1.59 | 20.2 | 0.05 | 0.05 | 0.11 | 101 | |
| 1 | 108 | 9.91 | 9.90 | 33.691 | 25.947 | 207.0 | 0.298 | 3.56 | 55.7 | 20.6 | 1.64 | 21.4 | 0.02 | 0.02 | 0.09 | 109 |
| 1 | 122 | 9.62 | 9.61 | 33.773 | 26.060 | 196.6 | 0.326 | 3.25 | 50.6 | 23.5 | 1.77 | 23.4 | 0.02 | 0.02 | 0.11 | 123 |
| 125 ISL | 9.56 | 9.55 | 33.782 | 26.077 | 195.0 | 0.332 | 3.23 | 50.2 | 23.8 | 1.78 | 23.6 | 0.02 | 0.02 | 0.11 | 126 | |
| 1 | 146 | 9.12 | 9.10 | 33.835 | 26.189 | 184.6 | 0.372 | 3.16 | 48.6 | 26.0 | 1.83 | 24.8 | 0.01 | 0.02 | 0.10 | 147 |
| 150 ISL | 9.02 | 9.00 | 33.856 | 26.222 | 181.6 | 0.379 | 3.11 | 47.8 | 27.0 | 1.86 | 25.2 | 0.01 | 0.02 | 0.10 | 151 | |
| 1 | 172 | 8.53 | 8.51 | 33.969 | 26.387 | 166.2 | 0.417 | 2.79 | 42.4 | 32.5 | 2.01 | 27.6 | 0.01 | 0.01 | 0.07 | 173 |
| 1 | 200 | 8.30 | 8.28 | 34.020 | 26.463 | 159.5 | 0.463 | 2.56 | 38.7 | 36.0 | 2.12 | 29.0 | 0.01 | 0.01 | 0.07 | 202 |
| 1 | 230 | 7.82 | 7.80 | 34.057 | 26.563 | 150.3 | 0.509 | 2.28 | 34.1 | 42.1 | 2.26 | 30.9 | 0.01 | | | 232 |
| 250 ISL | 7.49 | 7.47 | 34.066 | 26.618 | 145.3 | 0.539 | 2.08 | 30.9 | 46.2 | 2.36 | 32.3 | 0.01 | | | 252 | |
| 1 | 270 | 7.18 | 7.15 | 34.070 | 26.665 | 141.0 | 0.568 | 1.87 | 27.6 | 50.3 | 2.47 | 33.8 | 0.01 | | | 272 |
| 300 ISL | 6.83 | 6.80 | 34.088 | 26.727 | 135.4 | 0.609 | 1.54 | 22.5 | 56.4 | 2.61 | 35.7 | 0.01 | | | 302 | |
| 1 | 323 | 6.61 | 6.58 | 34.104 | 26.770 | 131.5 | 0.640 | 1.30 | 18.9 | 60.7 | 2.71 | 37.0 | 0.01 | | | 326 |
| 1 | 383 | 6.19 | 6.16 | 34.143 | 26.856 | 124.0 | 0.716 | 0.86 | 12.4 | 68.3 | 2.91 | 39.4 | 0.00 | | | 386 |
| 400 ISL | 6.08 | 6.05 | 34.159 | 26.883 | 121.6 | 0.737 | 0.75 | 10.8 | 70.8 | 2.96 | 40.0 | 0.00 | | | 403 | |
| 1 | 447 | 5.82 | 5.78 | 34.207 | 26.953 | 115.3 | 0.793 | 0.52 | 7.4 | 77.8 | 3.06 | 41.2 | 0.00 | | | 451 |
| 500 ISL | 5.60 | 5.56 | 34.255 | 27.019 | 109.6 | 0.853 | 0.39 | 5.5 | 84.2 | 3.14 | 42.0 | 0.00 | | | 504 | |
| 1 | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|-------|-------|-------|-------|
| 32 34.7 N | 122 48.7 W | 09/05/87 | 1236 GMT | 4210 M | 340 | 08 KT | 320 03 | 09 2 | 1015.9 MB | 15.9 C | 13.0 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.85 | 14.85 | 33.112 | 24.550 | 337.6 | 0.000 | 6.01 | 104.1 | 1.6 | 0.36 | 0.0 | 0.00 | 0.23 | 0.04 | 0 |
| | 10 ISL | 14.60 | 14.60 | 33.109 | 24.601 | 330.9 | 0.034 | 6.04 | 104.1 | 1.7 | 0.37 | 0.0 | 0.00 | 0.24 | 0.05 | 10 |
| 1 | 15 | 14.47 | 14.47 | 33.108 | 24.628 | 330.6 | 0.050 | 6.06 | 104.2 | 1.7 | 0.37 | 0.0 | 0.00 | 0.24 | 0.05 | 15 |
| 1 | 20 ISL | 14.31 | 14.31 | 33.094 | 24.651 | 328.6 | 0.067 | 6.06 | 103.8 | 1.8 | 0.37 | 0.0 | 0.00 | 0.21 | 0.05 | 20 |
| 1 | 29 | 14.06 | 14.06 | 33.073 | 24.687 | 325.4 | 0.096 | 6.06 | 103.3 | 1.9 | 0.38 | 0.0 | 0.00 | 0.19 | 0.06 | 29 |
| | 30 ISL | 14.04 | 14.04 | 33.072 | 24.691 | 325.1 | 0.099 | 6.06 | 103.2 | 1.9 | 0.38 | 0.0 | 0.00 | 0.20 | 0.07 | 30 |
| 1 | 39 | 13.93 | 13.92 | 33.085 | 24.724 | 322.1 | 0.128 | 6.08 | 103.3 | 1.9 | 0.38 | 0.0 | 0.00 | 0.30 | 0.12 | 39 |
| 1 | 49 | 13.85 | 13.84 | 33.146 | 24.788 | 316.4 | 0.160 | 6.09 | 103.4 | 2.1 | 0.39 | 0.0 | 0.01 | 0.35 | 0.15 | 49 |
| | 50 ISL | 13.84 | 13.83 | 33.150 | 24.793 | 315.9 | 0.163 | 6.08 | 103.2 | 2.1 | 0.39 | 0.0 | 0.02 | 0.35 | 0.15 | 50 |
| 1 | 60 | 13.60 | 13.59 | 33.187 | 24.871 | 308.8 | 0.195 | 5.90 | 99.7 | 2.6 | 0.42 | 0.5 | 0.13 | 0.30 | 0.15 | 60 |
| 1 | 68 | 13.21 | 13.20 | 33.211 | 24.968 | 299.7 | 0.219 | 5.75 | 96.4 | 3.0 | 0.50 | 1.9 | 0.20 | 0.27 | 0.14 | 69 |
| | 75 ISL | 13.06 | 13.05 | 33.235 | 25.016 | 295.2 | 0.240 | 5.68 | 94.9 | 3.2 | 0.52 | 2.5 | 0.17 | 0.27 | 0.16 | 76 |
| 1 | 78 | 12.99 | 12.98 | 33.247 | 25.040 | 293.1 | 0.249 | 5.64 | 94.1 | 3.3 | 0.54 | 2.8 | 0.15 | 0.27 | 0.17 | 79 |
| 1 | 93 | 12.03 | 12.02 | 33.353 | 25.307 | 267.9 | 0.291 | 5.24 | 85.7 | 6.8 | 0.84 | 8.0 | 0.04 | 0.16 | 0.18 | 94 |
| | 100 ISL | 11.80 | 11.79 | 33.413 | 25.397 | 259.5 | 0.309 | 5.13 | 83.5 | 7.9 | 0.95 | 9.8 | 0.05 | 0.13 | 0.18 | 101 |
| 1 | 108 | 11.57 | 11.56 | 33.475 | 25.488 | 251.0 | 0.330 | 4.97 | 80.6 | 9.3 | 1.07 | 11.8 | 0.60U | 0.11 | 0.16 | 109 |
| 1 | 123 | 10.84 | 10.83 | 33.537 | 25.668 | 234.1 | 0.366 | 4.31 | 68.8 | 14.3 | 1.31 | 16.2 | 0.08 | 0.06 | 0.10 | 124 |
| 1 | 125 ISL | 10.73 | 10.72 | 33.546 | 25.694 | 231.6 | 0.371 | 4.25 | 67.7 | 14.9 | 1.34 | 16.7 | 0.07 | 0.05 | 0.09 | 126 |
| 1 | 148 | 9.63 | 9.61 | 33.672 | 25.979 | 204.7 | 0.421 | 3.67 | 57.1 | 20.9 | 1.60 | 21.4 | 0.01 | 0.01 | 0.04 | 149 |
| 1 | 150 ISL | 9.58 | 9.56 | 33.688 | 26.000 | 202.8 | 0.425 | 3.61 | 56.1 | 21.5 | 1.62 | 21.8 | 0.01 | 0.01 | 0.04 | 151 |
| 1 | 172 | 9.16 | 9.14 | 33.856 | 26.200 | 184.2 | 0.468 | 3.18 | 49.0 | 27.2 | 1.80 | 24.7 | 0.01 | 0.00 | 0.05 | 173 |
| 1 | 200 ISL | 8.66 | 8.64 | 33.925 | 26.333 | 171.9 | 0.517 | 3.59 | 54.7 | 27.9 | 1.74 | 24.3 | 0.01 | 0.01 | 0.03 | 202 |
| 1 | 202 | 8.63 | 8.61 | 33.927 | 26.339 | 171.4 | 0.521 | 3.62 | 55.1 | 27.9 | 1.74 | 24.3 | 0.01 | 0.01 | 0.03 | 204 |
| 1 | 231 | 8.13 | 8.11 | 33.995 | 26.469 | 159.4 | 0.569 | 2.96 | 44.6 | 35.6 | 2.00 | 28.1 | 0.01 | | | 233 |
| | 250 ISL | 7.79 | 7.77 | 34.018 | 26.537 | 153.1 | 0.598 | 2.69 | 40.2 | 40.0 | 2.12 | 29.8 | 0.01 | | | 252 |
| 1 | 271 | 7.43 | 7.40 | 34.032 | 26.600 | 147.3 | 0.630 | 2.47 | 36.6 | 44.3 | 2.23 | 31.3 | 0.00 | | | 273 |
| | 300 ISL | 7.07 | 7.04 | 34.043 | 26.659 | 142.0 | 0.672 | 2.14 | 31.4 | 49.5 | 2.38 | 33.3 | 0.00 | | | 302 |
| 1 | 326 | 6.79 | 6.76 | 34.048 | 26.701 | 138.2 | 0.708 | 1.86 | 27.2 | 54.2 | 2.50 | 35.0 | 0.00 | | | 329 |
| 1 | 384 | 6.11 | 6.08 | 34.076 | 26.813 | 127.9 | 0.786 | 1.28 | 18.4 | 66.9 | 2.75 | 38.7 | 0.00 | | | 387 |
| 1 | 400 ISL | 5.99 | 5.96 | 34.091 | 26.840 | 125.5 | 0.806 | 1.13 | 16.2 | 69.8 | 2.81 | 39.5 | 0.00 | | | 403 |
| 1 | 449 | 5.69 | 5.65 | 34.139 | 26.916 | 118.7 | 0.866 | 0.74 | 10.5 | 77.9 | 2.97 | 41.3 | 0.00 | | | 453 |
| 1 | 500 ISL | 5.34 | 5.30 | 34.176 | 26.987 | 112.2 | 0.925 | 0.56 | 7.9 | 85.4 | 3.08 | 42.6 | 0.00 | | | 504 |
| 1 | 518 | 5.21 | 5.17 | 34.190 | 27.014 | 109.8 | 0.945 | 0.49 | 6.9 | 88.1 | 3.12 | 43.0 | 0.00 | | | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 14.7 N | 123 29.5 W | 09/05/87 | 0658 GMT | 4305 M | 320 | 06 KT | 320 03 | 06 2 | 1016.1 MB | 16.4 C | 13.9 C | 8/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.60 | 15.60 | 33.152 | 24.417 | 350.3 | 0.000 | 5.86 | 103.1 | 1.2 | 0.37 | 0.0 | 0.00 | 0.10 | 0.02 | 0 |
| 1 | 9 | 15.57 | 15.57 | 33.150 | 24.422 | 350.1 | 0.032 | 5.85 | 102.8 | 1.2 | 0.37 | 0.0 | 0.00 | 0.10 | 0.02 | 9 |
| | 10 ISL | 15.56 | 15.56 | 33.150 | 24.424 | 349.9 | 0.035 | 5.85 | 102.8 | 1.2 | 0.37 | 0.0 | 0.00 | 0.10 | 0.02 | 10 |
| 1 | 19 | 15.52 | 15.52 | 33.147 | 24.431 | 349.5 | 0.066 | 5.88 | 103.2 | 1.2 | 0.36 | 0.0 | 0.00 | 0.09 | 0.02 | 19 |
| | 20 ISL | 15.52 | 15.52 | 33.147 | 24.431 | 349.5 | 0.070 | 5.88 | 103.2 | 1.2 | 0.36 | 0.0 | 0.00 | 0.09 | 0.02 | 20 |
| 1 | 30 | 15.49 | 15.49 | 33.150 | 24.440 | 349.0 | 0.105 | 5.88 | 103.2 | 1.4 | 0.36 | 0.0 | 0.00 | 0.09 | 0.02 | 30 |
| 1 | 39 | 15.20 | 15.19 | 33.161 | 24.513 | 342.3 | 0.136 | 5.94 | 103.6 | 1.6 | 0.36 | 0.0 | 0.00 | 0.13 | 0.02 | 39 |
| 1 | 50 | 14.49 | 14.48 | 33.205 | 24.700 | 324.8 | 0.173 | 6.02 | 103.6 | 1.2 | 0.37 | 0.0 | 0.00 | 0.17 | 0.05 | 50 |
| 1 | 60 | 14.32 | 14.31 | 33.206 | 24.737 | 321.6 | 0.205 | 6.01 | 103.0 | 1.2 | 0.36 | 0.0 | 0.00 | 0.22 | 0.09 | 60 |
| 1 | 70 | 13.64 | 13.63 | 33.174 | 24.853 | 310.7 | 0.237 | 5.98 | 101.1 | 1.4 | 0.40 | 0.0 | 0.05 | 0.36 | 0.20 | 71 |
| | 75 ISL | 13.33 | 13.32 | 33.185 | 24.924 | 304.0 | 0.252 | 5.89 | 98.9 | 1.9 | 0.45 | 0.9 | 0.07 | 0.36 | 0.22 | 76 |
| 1 | 84 | 12.80 | 12.79 | 33.223 | 25.058 | 291.4 | 0.279 | 5.65 | 93.9 | 3.1 | 0.57 | 3.3 | 0.09 | 0.35 | 0.25 | 85 |
| 1 | 98 | 12.03 | 12.02 | 33.277 | 25.248 | 273.6 | 0.318 | 5.23 | 85.5 | 5.4 | 0.80 | 7.4 | 0.03 | 0.19 | 0.20 | 99 |
| 1 | 100 ISL | 11.91 | 11.90 | 33.285 | 25.277 | 270.9 | 0.324 | 5.17 | 84.3 | 5.9 | 0.83 | 8.0 | 0.03 | 0.18 | 0.19 | 101 |
| 1 | 118 | 10.89 | 10.88 | 33.379 | 25.536 | 246.5 | 0.370 | 4.66 | 74.4 | 11.1 | 1.13 | 13.2 | 0.01 | 0.09 | 0.09 | 119 |
| | 125 ISL | 10.53 | 10.52 | 33.444 | 25.649 | 235.8 | 0.387 | 4.42 | 70.0 | 13.6 | 1.26 | 15.4 | 0.01 | 0.06 | 0.09 | 126 |
| 1 | 143 | 9.75 | 9.73 | 33.622 | 25.921 | 210.2 | 0.427 | 3.87 | 60.3 | 19.7 | 1.54 | 20.2 | 0.02 | 0.02 | 0.08 | 144 |
| 1 | 150 ISL | 9.52 | 9.50 | 33.675 | 26.000 | 202.8 | 0.442 | 3.74 | 58.0 | 21.5 | 1.60 | 21.4 | 0.02 | 0.02 | 0.07 | 151 |
| 1 | 173 | 8.93 | 8.91 | 33.813 | 26.203 | 183.8 | 0.486 | 3.51 | 53.8 | 26.1 | 1.73 | 23.9 | 0.01 | 0.00 | 0.04 | 174 |
| 1 | 200 ISL | 8.43 | 8.41 | 33.923 | 26.367 | 168.7 | 0.534 | 3.43 | 52.0 | 30.5 | 1.81 | 25.5 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 202 | 8.40 | 8.38 | 33.929 | 26.376 | 167.8 | 0.537 | 3.43 | 52.0 | 30.8 | 1.81 | 25.6 | 0.00 | 0.00 | 0.02 | 204 |
| 1 | 232 | 8.02 | 8.00 | 33.986 | 26.478 | 158.5 | 0.586 | 3.24 | 48.7 | 35.6 | 1.92 | 27.2 | 0.00 | | | 234 |
| | 250 ISL | 7.77 | 7.75 | 34.000 | 26.526 | 154.1 | 0.614 | 3.02 | 45.1 | 39.1 | 2.02 | 28.6 | 0.00 | | | 252 |
| 1 | 271 | 7.48 | 7.45 | 34.011 | 26.576 | 149.6 | 0.646 | 2.71 | 40.2 | 43.5 | 2.15 | 30.4 | 0.00 | | | 273 |
| | 300 ISL | 7.17 | 7.14 | 34.042 | 26.645 | 143.4 | 0.689 | 2.17 | 32.0 | 49.8</ | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 31 54.7 N | 124 10.2 W | 09/05/87 | 0150 GMT | 4305 M | 300 | 09 KT | 260 | 03 03 | 2 | 1014.5 MB | 16.2 C | 13.8 C | 8/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.81 | 15.81 | 33.176 | 24.388 | 353.0 | 0.000 | 5.84 | 103.1 | 2.1 | 0.37 | 0.0 | 0.00 | 0.10 | 0.02 | 0 |
| 1 | 1 | 15.81 | 15.81 | 33.176 | 24.388 | 353.1 | 0.004 | 5.84 | 103.1 | 2.1 | 0.37 | 0.0 | 0.00 | 0.10 | A 0.02 | A 1 |
| 1 | 10 ISL | 15.72 | 15.72 | 33.176 | 24.409 | 351.4 | 0.035 | 5.85 | 103.1 | 2.4 | 0.38 | 0.0 | 0.00 | 0.10 | 0.02 | 10 |
| 1 | 17 | 15.61 | 15.61 | 33.176 | 24.434 | 349.2 | 0.060 | 5.86 | 103.1 | 2.8 | 0.38 | 0.0 | 0.00 | 0.10 | 0.02 | 17 |
| 1 | 20 ISL | 15.58 | 15.58 | 33.176 | 24.440 | 348.7 | 0.070 | 5.87 | 103.2 | 2.8 | 0.38 | 0.0 | 0.00 | 0.11 | 0.02 | 20 |
| 1 | 30 ISL | 15.46 | 15.46 | 33.174 | 24.466 | 346.6 | 0.105 | 5.88 | 103.1 | 3.0 | 0.37 | 0.0 | 0.00 | 0.12 | 0.03 | 30 |
| 1 | 33 | 15.43 | 15.42 | 33.173 | 24.472 | 346.1 | 0.115 | 5.89 | 103.2 | 3.0 | 0.37 | 0.0 | 0.00 | 0.13 | 0.03 | 33 |
| 1 | 41 | 14.80 | 14.79 | 33.197 | 24.627 | 331.5 | 0.142 | 6.01 | 104.0 | 2.9 | 0.37 | 0.0 | 0.00 | 0.18 | 0.05 | 41 |
| 1 | 50 ISL | 14.45 | 14.44 | 33.213 | 24.714 | 323.4 | 0.172 | 6.01 | 103.3 | 2.9 | 0.37 | 0.0 | 0.01 | 0.23 | 0.08 | 50 |
| 1 | 51 | 14.42 | 14.41 | 33.214 | 24.721 | 322.8 | 0.175 | 6.01 | 103.3 | 2.9 | 0.37 | 0.0 | 0.01 | 0.24 | 0.09 | 51 |
| 1 | 63 | 14.03 | 14.02 | 33.221 | 24.809 | 314.7 | 0.213 | 5.95 | 101.4 | 3.0 | 0.41 | 0.0 | 0.01 | 0.43 | 0.20 | 63 |
| 1 | 72 | 13.56 | 13.55 | 33.226 | 24.909 | 305.4 | 0.241 | 5.82 | 98.2 | 3.6 | 0.50 | 1.0 | 0.18 | 0.55 | 0.30 | 73 |
| 1 | 75 ISL | 13.28 | 13.27 | 33.232 | 24.970 | 299.6 | 0.250 | 5.70 | 95.7 | 4.2 | 0.56 | 2.2 | 0.16 | 0.49 | 0.29 | 76 |
| 1 | 80 | 12.80 | 12.79 | 33.247 | 25.077 | 289.5 | 0.265 | 5.49 | 91.2 | 5.3 | 0.66 | 4.4 | 0.10 | 0.36 | 0.25 | 81 |
| 1 | 96 | 11.79 | 11.78 | 33.300 | 25.311 | 267.6 | 0.310 | 5.03 | 81.8 | 8.7 | 0.92 | 9.2 | 0.02 | 0.18 | 0.14 | 97 |
| 1 | 100 ISL | 11.60 | 11.59 | 33.315 | 25.358 | 263.2 | 0.320 | 4.94 | 80.1 | 9.3 | 0.98 | 10.1 | 0.02 | 0.16 | 0.13 | 101 |
| 1 | 111 | 11.13 | 11.12 | 33.371 | 25.487 | 251.1 | 0.349 | 4.68 | 75.1 | 11.1 | 1.13 | 12.6 | 0.01 | 0.11 | 0.11 | 112 |
| 1 | 125 | 10.43 | 10.42 | 33.490 | 25.703 | 230.7 | 0.382 | 4.31 | 68.2 | 14.7 | 1.32 | 16.2 | 0.01 | 0.04 | 0.06 | 126 |
| 1 | 150 ISL | 9.57 | 9.55 | 33.695 | 26.008 | 202.1 | 0.436 | 3.67 | 57.0 | 21.6 | 1.63 | 21.6 | 0.01 | 0.01 | 0.06 | 151 |
| 1 | 151 | 9.54 | 9.52 | 33.702 | 26.018 | 201.1 | 0.438 | 3.65 | 56.7 | 21.9 | 1.64 | 21.8 | 0.01 | 0.01 | 0.06 | 152 |
| 1 | 174 | 9.05 | 9.03 | 33.834 | 26.200 | 184.1 | 0.483 | 3.30 | 50.7 | 27.3 | 1.79 | 24.7 | 0.01 | 0.00 | 0.03 | 175 |
| 1 | 200 ISL | 8.65 | 8.63 | 33.942 | 26.348 | 170.5 | 0.529 | 2.93 | 44.6 | 32.1 | 1.95 | 27.1 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 204 | 8.59 | 8.57 | 33.954 | 26.367 | 168.8 | 0.536 | 2.89 | 44.0 | 32.8 | 1.97 | 27.4 | 0.00 | 0.00 | 0.02 | 206 |
| 1 | 232 | 8.01 | 7.99 | 33.994 | 26.486 | 157.8 | 0.581 | 2.90 | 43.5 | 37.5 | 2.03 | 28.6 | 0.00 | | | 234 |
| 1 | 250 ISL | 7.75 | 7.73 | 34.009 | 26.536 | 153.2 | 0.609 | 2.75 | 41.1 | 40.5 | 2.11 | 29.7 | 0.00 | | | 252 |
| 1 | 271 | 7.51 | 7.48 | 34.022 | 26.581 | 149.2 | 0.641 | 2.51 | 37.3 | 44.0 | 2.21 | 31.1 | 0.00 | | | 273 |
| 1 | 300 ISL | 7.19 | 7.16 | 34.039 | 26.640 | 143.9 | 0.684 | 2.18 | 32.1 | 49.0 | 2.35 | 33.0 | 0.00 | | | 302 |
| 1 | 326 | 6.94 | 6.91 | 34.056 | 26.688 | 139.6 | 0.720 | 1.87 | 27.4 | 53.6 | 2.48 | 34.6 | 0.00 | | | 329 |
| 1 | 385 | 6.49 | 6.46 | 34.109 | 26.790 | 130.4 | 0.800 | 1.21 | 17.5 | 63.9 | 2.75 | 37.9 | 0.00 | | | 388 |
| 1 | 400 ISL | 6.32 | 6.28 | 34.115 | 26.817 | 128.0 | 0.819 | 1.09 | 15.7 | 66.8 | 2.81 | 38.7 | 0.00 | | | 403 |
| 1 | 449 | 5.80 | 5.76 | 34.137 | 26.900 | 120.3 | 0.880 | 0.76 | 10.8 | 75.7 | 2.96 | 41.0 | 0.00 | | | 453 |
| 1 | 500 ISL | 5.52 | 5.48 | 34.191 | 26.978 | 113.4 | 0.940 | 0.51 | 7.2 | 83.0 | 3.07 | 42.2 | 0.00 | | | 504 |
| 1 | 519 | 5.42 | 5.38 | 34.211 | 27.006 | 110.8 | 0.961 | 0.42 | 5.9 | 85.7 | 3.11 | 42.7 | 0.00 | | | 523 |

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

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 33

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 33 53.4 N | 118 29.4 W | 06/05/87 | 1737 GMT | 54 M | 230 | 07 KT | 250 | 01 06 | 2 | 1014.8 MB | 19.0 C | 16.6 C | 8/8 | CI | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 17.40 | 17.40 | 33.518 | 24.283 | 363.0 | 0.000 | 6.06 | 110.6 | 2.9 | 0.28 | 0.0 | 0.00 | 0.57 | 0.08 | 0 |
| 1 | 10 ISL | 16.40 | 16.40 | 33.510 | 24.512 | 341.6 | 0.035 | 6.26 | 112.1 | 3.4 | 0.27 | 0.0 | 0.04 | 0.84 | 0.16 | 10 |
| 1 | 11 | 16.30 | 16.30 | 33.510 | 24.534 | 339.4 | 0.039 | 6.28 | 112.2 | 3.4 | 0.27 | 0.0 | 0.04 | 0.87 | 0.17 | 11 |
| 1 | 20 ISL | 13.98 | 13.98 | 33.485 | 25.022 | 293.3 | 0.067 | 5.93 | 101.1 | 5.8 | 0.44 | 0.0 | 0.01 | 3.22 | 1.02 | 20 |
| 1 | 21 | 13.73 | 13.73 | 33.485 | 25.073 | 288.4 | 0.070 | 5.87 | 99.6 | 6.1 | 0.47 | 0.0 | 0.01 | 3.42 | 1.10 | 21 |
| 1 | 30 | 12.82 | 12.82 | 33.489 | 25.259 | 270.9 | 0.095 | 5.27 | 87.7 | 6.4 | 0.67 | 3.4 | 0.34 | 1.74 | 0.67 | 30 |
| 1 | 42 | 12.31 | 12.30 | 33.506 | 25.371 | 260.5 | 0.127 | 4.71 | 77.6 | 8.9 | 0.91 | 8.4 | 0.44 | 0.88 | 0.41 | 42 |
| 1 | 50 ISL | 11.70 | | | | | | | | | | | | | | 50 |
| 1 | 52 | 11.55 | | | | | | | | | | | | | | 52 |

RV DAVID STARR JORDAN'

CALCOFI CRUISE 8705

STATION 87 34

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 33 51.4 N | 118 33.6 W | 06/05/87 | 1846 GMT | 73 M | 210 | 08 KT | 190 | 01 06 | 2 | 1014.7 MB | 18.4 C | 15.5 C | 8/8 | CI | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 17.46 | 17.46 | 33.509 | 24.262 | 365.0 | 0.000 | 6.06 | 110.7 | 3.5 | 0.26 | 0.0 | 0.00 | 0.40 | 0.05 | 0 |
| 1 | 1 | 17.46 | 17.46 | 33.509 | 24.262 | 365.1 | 0.004 | 6.06 | 110.7 | 3.5 | 0.26 | 0.0 | 0.00 | 0.40 | 0.05 | 1 |
| 1 | 10 ISL | 16.67 | 16.67 | 33.505 | 24.445 | 347.9 | 0.036 | 6.21 | 111.7 | 3.5 | 0.26 | 0.0 | 0.00 | 0.69 | 0.16 | 10 |
| 1 | 11 | 16.53 | 16.53 | 33.505 | 24.478 | 344.8 | 0.039 | 6.23 | 111.8 | 3.5 | 0.26 | 0.0 | 0.00 | 0.75 | 0.18 | 11 |
| 1 | 20 ISL | 15.47 | 15.47 | 33.501 | 24.715 | 322.5 | 0.069 | 6.29 | 110.6 | 4.1 | 0.30 | 0.0 | 0.00 | 1.38 | 0.44 | 20 |
| 1 | 21 | 15.32 | 15.32 | 33.498 | 24.746 | 319.6 | 0.072 | 6.30 | 110.4 | 4.2 | 0.31 | 0.0 | 0.00 | 1.44 | 0.46 | 21 |
| 1 | 30 ISL | 13.14 | 13.14 | 33.438 | 25.156 | 280.7 | 0.099 | 4.76 | 79.8 | 10.2 | 1.23 | 5.8 | 0.48 | 1.25 | 0.38 | 30 |
| 1 | 32 | 12.66 | 12.66 | 33.428 | 25.243 | 272.5 | 0.105 | 4.35 | 72.2 | 11.9 | 1.48 | 7.5 | 0.60 | 1.21 | 0.35 | 3 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|--------|--------|-------|------|-------|-------|-------|
| 33 49.4 N | 118 37.7 W | 06/05/87 | 1957 GMT | 659 M | 230 07 KT | 210 01 06 | 210 01 06 | 210 01 06 | 1014.6 MB | 18.2 C | 16.2 C | 8/8 | C1 | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 18.39 | 18.39 | 33.535 | 24.055 | 384.7 | 0.000 | 5.97 | 111.0 | 2.8 | 0.20 | 0.0 | 0.00 | 0.33 | 0.03 | 0 |
| 10 | ISL | 17.41 | 17.41 | 33.520 | 24.282 | 363.4 | 0.037 | 6.19 | 113.0 | 2.8 | 0.21 | 0.0 | 0.00 | 0.41 | 0.06 | 10 |
| 11 | | 17.31 | 17.31 | 33.519 | 24.306 | 361.3 | 0.041 | 6.21 | 113.1 | 2.8 | 0.21 | 0.0 | 0.00 | 0.42 | 0.06 | 11 |
| 20 | | 15.47 | 15.47 | 33.476 | 24.696 | 324.4 | 0.072 | 6.42 | 112.8 | 2.7 | 0.26 | 0.0 | 0.00 | 0.70 | 0.15 | 20 |
| 30 | | 13.50 | 13.50 | 33.459 | 25.100 | 286.1 | 0.102 | 6.07 | 102.5 | 4.5 | 0.38 | 0.1 | 0.01 | 1.61 | 0.34 | 30 |
| 41 | | 12.42 | 12.41 | 33.490 | 25.338 | 263.7 | 0.133 | 4.98 | 82.2 | 8.4 | 0.83 | 7.5 | 0.23 | 1.31 | 0.40 | 41 |
| 50 | ISL | 11.87 | 11.86 | 33.524 | 25.469 | 251.4 | 0.156 | 4.46 | 72.8 | 11.2 | 1.08 | 11.5 | 0.33 | 1.11 | 0.41 | 50 |
| 51 | | 11.82 | 11.81 | 33.528 | 25.481 | 250.2 | 0.158 | 4.42 | 72.1 | 11.5 | 1.10 | 11.8 | 0.34 | 1.08 | 0.41 | 51 |
| 61 | | 11.38 | 11.37 | 33.558 | 25.586 | 240.5 | 0.183 | 4.04 | 65.3 | 13.6 | 1.27 | 14.3 | 0.36 | 0.61 | 0.35 | 61 |
| 70 | | 10.81 | 10.80 | 33.615 | 25.733 | 226.7 | 0.204 | 3.91 | 62.4 | 16.2 | 1.36 | 17.0 | 0.02 | 0.16 | 0.16 | 71 |
| 75 | ISL | 10.57 | 10.56 | 33.646 | 25.799 | 220.5 | 0.215 | 3.81 | 60.5 | 17.5 | 1.42 | 18.1 | 0.02 | 0.12 | 0.14 | 76 |
| 85 | | 10.20 | 10.19 | 33.705 | 25.909 | 210.2 | 0.237 | 3.62 | 57.0 | 19.8 | 1.52 | 19.7 | 0.01 | 0.05 | 0.10 | 86 |
| 99 | | 9.80 | 9.79 | 33.776 | 26.032 | 198.8 | 0.265 | 3.47 | 54.2 | 22.6 | 1.62 | 21.6 | 0.01 | 0.02 | 0.05 | 100 |
| 100 | ISL | 9.78 | 9.77 | 33.780 | 26.038 | 198.2 | 0.267 | 3.45 | 53.9 | 22.8 | 1.63 | 21.7 | 0.01 | 0.02 | 0.05 | 101 |
| 119 | | 9.55 | 9.54 | 33.852 | 26.133 | 189.6 | 0.304 | 3.16 | 49.1 | 25.5 | 1.75 | 23.5 | 0.01 | 0.01 | 0.05 | 120 |
| 125 | ISL | 9.47 | 9.46 | 33.872 | 26.162 | 186.9 | 0.315 | 3.10 | 48.1 | 26.6 | 1.78 | 24.0 | 0.01 | 0.01 | 0.05 | 126 |
| 143 | | 9.24 | 9.22 | 33.936 | 26.249 | 179.0 | 0.348 | 2.90 | 44.8 | 30.0 | 1.89 | 25.4 | 0.01 | 0.01 | 0.04 | 144 |
| 150 | ISL | 9.19 | 9.17 | 33.969 | 26.283 | 175.9 | 0.361 | 2.77 | 42.7 | 31.4 | 1.95 | 26.0 | 0.01 | 0.01 | 0.04 | 151 |
| 173 | | 9.06 | 9.04 | 34.060 | 26.376 | 167.5 | 0.400 | 2.38 | 36.6 | 35.1 | 2.10 | 27.7 | 0.01 | 0.00 | 0.05 | 174 |
| 200 | ISL | 8.80 | 8.78 | 34.076 | 26.430 | 162.9 | 0.445 | 2.31 | 35.3 | 36.6 | 2.13 | 28.4 | 0.01 | 0.00 | 0.06 | 202 |
| 202 | | 8.78 | 8.76 | 34.077 | 26.434 | 162.5 | 0.448 | 2.31 | 35.3 | 36.7 | 2.13 | 28.4 | 0.01 | 0.00 | 0.06 | 204 |
| 231 | | 8.73 | 8.71 | 34.152 | 26.501 | 156.7 | 0.494 | 1.87 | 28.6 | 40.3 | 2.30 | 29.9 | 0.02 | | | 233 |
| 250 | ISL | 8.57 | 8.54 | 34.174 | 26.543 | 153.0 | 0.524 | 1.68 | 25.6 | 42.4 | 2.38 | 30.8 | 0.02 | | | 252 |
| 269 | | 8.38 | 8.35 | 34.183 | 26.579 | 149.8 | 0.553 | 1.55 | 23.5 | 44.4 | 2.44 | 31.6 | 0.01 | | | 271 |
| 300 | ISL | 8.13 | 8.10 | 34.188 | 26.622 | 146.3 | 0.598 | 1.43 | 21.6 | 47.2 | 2.51 | 32.5 | 0.01 | | | 302 |
| 323 | | 7.94 | 7.91 | 34.189 | 26.651 | 143.8 | 0.632 | 1.36 | 20.4 | 49.5 | 2.56 | 33.2 | 0.01 | | | 326 |
| 381 | | 7.43 | 7.39 | 34.225 | 26.753 | 134.7 | 0.713 | 0.96 | 14.2 | 57.8 | 2.75 | 35.5 | 0.00 | | | 384 |
| 400 | ISL | 7.21 | 7.17 | 34.237 | 26.794 | 131.0 | 0.738 | 0.83 | 12.2 | 61.2 | 2.82 | 36.4 | 0.00 | | | 403 |
| 447 | | 6.71 | 6.67 | 34.266 | 26.886 | 122.6 | 0.797 | 0.55 | 8.0 | 69.2 | 2.97 | 38.4 | 0.00 | | | 451 |
| 500 | ISL | 6.38 | 6.33 | 34.296 | 26.954 | 116.7 | 0.861 | 0.40 | 5.8 | 75.1 | 3.07 | 39.5 | 0.00 | | | 504 |
| 518 | | 6.27 | 6.22 | 34.306 | 26.976 | 114.7 | 0.882 | 0.35 | 5.1 | 77.1 | 3.10 | 39.9 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 37.5

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|--------|--------|-------|------|-------|-------|-------|
| 33 44.4 N | 118 48.2 W | 06/05/87 | 2259 GMT | 917 M | 230 06 KT | 230 01 06 | 230 01 06 | 230 01 06 | 1012.9 MB | 18.2 C | 16.2 C | 7/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 17.75 | 17.75 | 33.434 | 24.135 | 377.2 | 0.000 | 5.89 | 108.1 | 3.6 | 0.29 | 0.0 | 0.00 | 0.21 | 0.03 | 0 |
| 1 | 1 A | 17.75 | 17.75 | 33.434 | 24.135 | 377.3 | 0.004 | 5.89 | 108.1 | 3.6 | 0.29 | 0.0 | 0.00 | 0.21 | 0.03 | 1 |
| 10 | ISL | 17.33 | 17.33 | 33.435 | 24.237 | 367.8 | 0.037 | 5.90 | 107.5 | 3.2 | 0.29 | 0.0 | 0.00 | 0.24 | 0.03 | 10 |
| 20 | ISL | 15.80 | 15.80 | 33.420 | 24.579 | 335.5 | 0.072 | 6.16 | 108.9 | 3.0 | 0.28 | 0.0 | 0.00 | 0.39 | 0.08 | 20 |
| 21 | | 15.62 | 15.62 | 33.420 | 24.619 | 331.7 | 0.076 | 6.20 | 109.2 | 3.0 | 0.28 | 0.0 | 0.00 | 0.41 | 0.08 | 21 |
| 30 | ISL | 14.30 | 14.30 | 33.446 | 24.925 | 302.7 | 0.104 | 6.54 | 112.2 | 4.0 | 0.32 | 0.0 | 0.00 | 1.85 | 0.45 | 30 |
| 31 | | 14.16 | 14.16 | 33.451 | 24.958 | 299.6 | 0.107 | 6.58 | 112.6 | 4.2 | 0.33 | 0.0 | 0.00 | 1.98 | 0.49 | 31 |
| 41 | | 12.86 | 12.85 | 33.508 | 25.266 | 270.5 | 0.136 | 5.31 | 88.5 | 7.0 | 0.69 | 4.8 | 0.61 | 1.22 | 0.51 | 41 |
| 50 | ISL | 12.30 | 12.29 | 33.527 | 25.390 | 258.9 | 0.160 | 4.74 | 78.1 | 9.4 | 0.94 | 9.2 | 0.34 | 0.64 | 0.33 | 50 |
| 51 | | 12.25 | 12.24 | 33.529 | 25.401 | 257.9 | 0.162 | 4.70 | 77.3 | 9.7 | 0.96 | 9.7 | 0.29 | 0.59 | 0.31 | 51 |
| 61 | | 11.55 | 11.54 | 33.575 | 25.568 | 242.2 | 0.187 | 4.24 | 68.7 | 12.8 | 1.16 | 13.5 | 0.04 | 0.25 | 0.18 | 61 |
| 72 | | 11.08 | 11.07 | 33.627 | 25.694 | 230.5 | 0.213 | 3.91 | 62.8 | 15.7 | 1.32 | 16.3 | 0.02 | 0.13 | 0.15 | 73 |
| 75 | ISL | 10.92 | 10.91 | 33.647 | 25.738 | 226.3 | 0.220 | 3.81 | 61.0 | 16.6 | 1.37 | 17.1 | 0.02 | 0.11 | 0.14 | 76 |
| 85 | | 10.43 | 10.42 | 33.713 | 25.876 | 213.4 | 0.242 | 3.50 | 55.4 | 19.7 | 1.53 | 19.6 | 0.02 | 0.06 | 0.10 | 86 |
| 100 | ISL | 9.98 | 9.97 | 33.787 | 26.010 | 200.9 | 0.273 | 3.23 | 50.7 | 23.0 | 1.67 | 22.0 | 0.02 | 0.03 | 0.08 | 101 |
| 101 | | 9.96 | 9.95 | 33.792 | 26.018 | 200.2 | 0.275 | 3.22 | 50.5 | 23.2 | 1.68 | 22.1 | 0.02 | 0.03 | 0.08 | 102 |
| 121 | | 9.42 | 9.41 | 33.890 | 26.184 | 184.7 | 0.314 | 2.93 | 45.4 | 27.8 | 1.84 | 24.8 | 0.01 | 0.01 | 0.06 | 122 |
| 125 | ISL | 9.35 | 9.34 | 33.909 | 26.210 | 182.3 | 0.321 | 2.88 | 44.6 | 28.5 | 1.87 | 25.2 | 0.01 | 0.01 | 0.06 | 126 |
| 145 | | 9.11 | 9.09 | 33.991 | 26.313 | 172.9 | 0.357 | 2.67 | 41.1 | 31.4 | 1.98 | 26.6 | 0.01 | 0.01 | 0.05 | 146 |
| 150 | ISL | 9.05 | 9.03 | 34.003 | 26.332 | 171.2 | 0.365 | 2.62 | 40.3 | 32.1 | 2.00 | 26.9 | 0.01 | 0.01 | 0.05 | 151 |
| 174 | | 8.82 | 8.80 | 34.055 | 26.410 | 164.2 | 0.405 | 2.33 | 35.7 | 35.6 | 2.11 | 28.3 | 0.01 | 0.01 | 0.06 | 175 |
| 200 | ISL | 8.65 | 8.63 | 34.143 | 26.506 | 155.6 | 0.447 | 1.89 | 28.8 | 40.0 | 2.28 | 29.9 | 0.01 | 0.01 | 0.04 | 202 |
| 204 | | 8.62 | 8.60 | 34.155 | 26.520 | 154.4 | 0.453 | 1.83 | 27.9 | 40.7 | 2.31 | 30.1 | 0.01 | 0.01 | 0.04 | 206 |
| 233 | | 8.24 | 8.22 | 34.163 | 26.584 | 148.6 | 0.497 | 1.64 | 24.8 | 44.6 | 2.41 | 31.6 | 0.01 | | | 235 |
| 250 | ISL | 8.05 | 8.02 | 34.166 | 26.615 | 145.9 | 0.522 | 1.53 | 23.0 | 46.7 | 2.47 | 32.4 | 0.01 | | | 252 |
| 272 | | 7.79 | 7.79 | 34.175 | 26.656 | 142.3 | 0.554 | 1.38 | 20.7 | 49.5 | 2.56 | 33.5 | 0.01 | | | 274 |
| 300 | ISL | 7.54 | 7.51 | 34.206 | 26.722 | 136.4 | 0.5 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 39.5

| LATITUDE 33 40.4 N | LONGITUDE 118 56.4 W | DAY/MO/YR 07/05/87 | MESSENGER | | BOTTOM 926 M | WIND 300 07 KT | SPEED 260 01 | WAVES 06 1 | WEATHER | BAROMETER | | DRY 17.5 C | WET 15.5 C | CLOUD 6/8 | AMT | TYPE | | | | |
|-----------------------|-------------------------|-----------------------|-----------|--------|-----------------|-------------------|-----------------|---------------|---------|-----------|----------------|---------------|----------------|--------------|--------------|-------------|-------------|-------------|---------------|---------------|
| | | | 0132 | GMT | | | | | | SALINITY | SIGMA THETA | DYN HT | OXYGEN ML/L | OXY PCT | S103 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L |
| 1 0 ISL | 17.60 | 17.60 | 33.477 | 24.204 | 370.6 | 0.000 | 5.88 | 107.7 | 3.2 | 0.28 | 0.0 | 0.00 | 0.31 | 0.04 | 0 | | | | | |
| 1 1 A | 17.60 | 17.60 | 33.477 | 24.204 | 370.6 | 0.004 | 5.88 | 107.7 | 3.2 | 0.28 | 0.0 | 0.00 | 0.31 | 0.04 | 1 | | | | | |
| 1 10 ISL | 16.72 | 16.72 | 33.457 | 24.397 | 352.5 | 0.036 | 5.98 | 107.7 | 3.1 | 0.32 | 0.1 | 0.01 | 0.23 | 0.03 | 10 | | | | | |
| 1 11 | 16.56 | 16.56 | 33.455 | 24.433 | 349.2 | 0.040 | 6.00 | 107.7 | 3.1 | 0.32 | 0.1 | 0.01 | 0.22 | 0.03 | 11 | | | | | |
| 1 20 ISL | 14.97 | 14.97 | 33.455 | 24.789 | 315.5 | 0.070 | 6.33 | 110.1 | 3.4 | 0.32 | 0.0 | 0.00 | 0.37 | 0.10 | 20 | | | | | |
| 1 21 | 14.77 | 14.77 | 33.456 | 24.833 | 311.3 | 0.073 | 6.36 | 110.2 | 3.5 | 0.32 | 0.0 | 0.00 | 0.39 | 0.11 | 21 | | | | | |
| 1 30 ISL | 13.16 | 13.16 | 33.449 | 25.161 | 280.3 | 0.099 | 6.13 | 102.8 | 4.5 | 0.50 | 1.9 | 0.19 | 1.35 | 0.36 | 30 | | | | | |
| 1 31 | 13.01 | 13.01 | 33.449 | 25.191 | 277.4 | 0.102 | 6.11 | 102.1 | 4.7 | 0.52 | 2.2 | 0.22 | 1.44 | 0.39 | 31 | | | | | |
| 1 41 | 12.40 | 12.39 | 33.462 | 25.320 | 265.3 | 0.129 | 5.36 | 88.4 | 6.8 | 6.5 | 0.73 | 1.13 | 0.45 | 41 | | | | | | |
| 1 50 ISL | 12.27 | 12.26 | 33.516 | 25.387 | 259.2 | 0.153 | 5.20 | 85.6 | 7.5 | 0.88 | 8.1 | 0.55 | 0.86 | 0.34 | 50 | | | | | |
| 1 51 | 12.25 | 12.24 | 33.523 | 25.396 | 258.4 | 0.156 | 5.19 | 85.4 | 7.6 | 0.90 | 8.3 | 0.51 | 0.83 | 0.32 | 51 | | | | | |
| 1 61 | 11.53 | 11.52 | 33.554 | 25.555 | 243.4 | 0.181 | 4.58 | 74.2 | 12.4 | 1.16 | 13.2 | 0.33 | 0.38 | 0.17 | 61 | | | | | |
| 1 71 | 10.84 | 10.83 | 33.588 | 25.706 | 229.2 | 0.204 | 4.05 | 64.7 | 15.8 | 1.34 | 16.8 | 0.01 | 0.12 | 0.15 | 72 | | | | | |
| 1 75 ISL | 10.68 | 10.67 | 33.607 | 25.749 | 225.2 | 0.213 | 3.93 | 62.5 | 16.7 | 1.38 | 17.5 | 0.01 | 0.11 | 0.13 | 76 | | | | | |
| 1 86 | 10.37 | 10.36 | 33.670 | 25.853 | 215.6 | 0.238 | 3.70 | 58.5 | 18.9 | 1.48 | 19.0 | 0.01 | 0.07 | 0.10 | 87 | | | | | |
| 1 100 | 9.87 | 9.86 | 33.765 | 26.011 | 200.7 | 0.267 | 3.30 | 51.6 | 23.1 | 1.68 | 22.1 | 0.01 | 0.05 | 0.13 | 101 | | | | | |
| 1 120 | 9.58 | 9.57 | 33.859 | 26.134 | 189.5 | 0.306 | 2.98 | 46.3 | 27.0 | 1.80 | 24.1 | 0.01 | 0.02 | 0.08 | 121 | | | | | |
| 1 125 ISL | 9.48 | 9.47 | 33.881 | 26.167 | 186.4 | 0.315 | 2.91 | 45.2 | 28.1 | 1.84 | 24.6 | 0.01 | 0.02 | 0.08 | 126 | | | | | |
| 1 143 | 9.12 | 9.10 | 33.955 | 26.283 | 175.7 | 0.348 | 2.67 | 41.1 | 32.0 | 1.96 | 26.4 | 0.01 | 0.01 | 0.07 | 144 | | | | | |
| 1 150 ISL | 9.01 | 8.99 | 33.978 | 26.319 | 172.4 | 0.360 | 2.59 | 39.8 | 33.3 | 2.00 | 27.0 | 0.01 | 0.01 | 0.07 | 151 | | | | | |
| 1 174 | 8.70 | 8.68 | 34.041 | 26.417 | 163.4 | 0.400 | 2.33 | 35.6 | 37.2 | 2.13 | 28.6 | 0.01 | 0.01 | 0.06 | 175 | | | | | |
| 1 200 ISL | 8.51 | 8.49 | 34.084 | 26.481 | 157.9 | 0.442 | 2.10 | 31.9 | 40.2 | 2.22 | 29.7 | 0.01 | 0.01 | 0.05 | 202 | | | | | |
| 1 204 | 8.48 | 8.46 | 34.089 | 26.490 | 157.2 | 0.448 | 2.06 | 31.3 | 40.7 | 2.24 | 29.9 | 0.01 | 0.01 | 0.05 | 206 | | | | | |
| 1 232 | 8.09 | 8.07 | 34.146 | 26.594 | 147.7 | 0.491 | 1.63 | 24.5 | 46.2 | 2.41 | 32.1 | 0.01 | | | 234 | | | | | |
| 1 250 ISL | 7.91 | 7.88 | 34.168 | 26.637 | 143.7 | 0.517 | 1.45 | 21.7 | 48.9 | 2.49 | 32.9 | 0.01 | | | 252 | | | | | |
| 1 271 | 7.74 | 7.71 | 34.185 | 26.676 | 140.3 | 0.547 | 1.29 | 19.3 | 51.6 | 2.56 | 33.6 | 0.01 | | | 273 | | | | | |
| 1 300 ISL | 7.51 | 7.48 | 34.206 | 26.726 | 136.0 | 0.587 | 1.08 | 16.1 | 55.2 | 2.66 | 34.8 | 0.00 | | | 302 | | | | | |
| 1 326 | 7.32 | 7.29 | 34.223 | 26.767 | 132.4 | 0.622 | 0.91 | 13.5 | 58.3 | 2.74 | 35.9 | 0.00 | | | 329 | | | | | |
| 1 384 | 6.93 | 6.89 | 34.263 | 26.853 | 124.9 | 0.697 | 0.63 | 9.2 | 65.0 | 2.86 | 37.7 | 0.00 | | | 387 | | | | | |
| 1 400 ISL | 6.81 | 6.77 | 34.270 | 26.875 | 123.0 | 0.716 | 0.57 | 8.3 | 67.2 | 2.90 | 38.2 | 0.00 | | | 403 | | | | | |
| 1 453 | 6.43 | 6.39 | 34.292 | 26.943 | 117.0 | 0.780 | 0.39 | 5.7 | 74.6 | 3.01 | 39.5 | 0.00 | | | 457 | | | | | |
| 1 500 ISL | 6.18 | 6.14 | 34.320 | 26.998 | 112.2 | 0.834 | 0.29 | 4.2 | 79.9 | 3.07 | 40.2 | 0.00 | | | 504 | | | | | |
| 1 517 | 6.10 | 6.05 | 34.329 | 27.016 | 110.8 | 0.853 | 0.26 | 3.7 | 81.7 | 3.09 | 40.3 | 0.00 | | | 522 | | | | | |
| 1 589 | 5.70 | 5.65 | 34.350 | 27.083 | 104.9 | 0.931 | 0.21 | 3.0 | 90.5 | 3.16 | 40.6 | 0.00 | | | 594 | | | | | |
| 1 600 ISL | 5.66 | 5.61 | 34.353 | 27.090 | 104.3 | 0.942 | 0.21 | 3.0 | 91.5 | 3.17 | 40.6 | 0.00 | | | 605 | | | | | |
| 1 664 | 5.44 | 5.38 | 34.370 | 27.131 | 101.0 | 1.008 | 0.19 | 2.7 | 96.7 | 3.21 | 40.6 | 0.00 | | | 670 | | | | | |
| 1 700 ISL | 5.33 | 5.27 | 34.375 | 27.148 | 99.6 | 1.044 | 0.17 | 2.4 | 100.1 | 3.23 | 39.8 | 0.00 | | | 706 | | | | | |
| 1 736 | 5.24 | 5.18 | 34.380 | 27.163 | 98.5 | 1.080 | 0.15 | 2.1 | 103.5 | 3.25 | 38.7 | 0.00 | | | 743 | | | | | |
| 1 800 ISL | 5.14 | 5.07 | 34.398 | 27.189 | 96.6 | 1.142 | 0.15 | 2.1 | 109.4 | 3.29 | 35.9 | 0.00 | | | 808 | | | | | |
| 1 811 | 5.13 | 5.06 | 34.401 | 27.193 | 96.4 | 1.153 | 0.15 | 2.1 | 110.1 | 3.30 | 35.7 | 0.00 | | | 819 | | | | | |
| 1 884 | 5.05 | 4.98 | 34.397 | 27.200 | 96.5 | 1.223 | 0.20 | 2.8 | 107.8 | 3.27 | 39.7 | 0.03 | | | 892 | | | | | |

A) SANTA MONICA BASIN STATION.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 42

| LATITUDE 33 35.4 N | LONGITUDE 119 6.7 W | DAY/MO/YR 07/05/87 | MESSENGER | | BOTTOM 262 M | WIND 260 07 KT | SPEED 260 01 | WAVES | WEATHER | BAROMETER | | DRY 16.2 C | WET 15.4 C | CLOUD 15.4 C | AMT | TYPE | | | | |
|-----------------------|------------------------|-----------------------|-----------|--------|-----------------|-------------------|-----------------|-------|---------|-----------|----------------|---------------|----------------|-----------------|--------------|-------------|-------------|-------------|---------------|---------------|
| | | | 0451 | GMT | | | | | | SALINITY | SIGMA THETA | DYN HT | OXYGEN ML/L | OXY PCT | S103 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L |
| 1 0 ISL | 17.25 | 17.25 | 33.484 | 24.293 | 362.1 | 0.000 | 5.93 | 107.9 | 2.4 | 0.28 | 0.0 | 0.00 | 0.33 | 0.04 | 0 | | | | | |
| 1 9 | 16.00 | 16.00 | 33.476 | 24.577 | 355.4 | 0.031 | 6.05 | 107.4 | 2.2 | 0.28 | 0.0 | 0.00 | 0.40 | 0.05 | 9 | | | | | |
| 1 10 ISL | 15.82 | 15.82 | 33.474 | 24.616 | 331.7 | 0.035 | 6.09 | 107.8 | 2.3 | 0.29 | 0.1 | 0.00 | 0.43 | 0.06 | 10 | | | | | |
| 1 20 | 14.04 | 14.04 | 33.473 | 25.000 | 295.3 | 0.066 | 6.29 | 107.4 | 4.1 | 0.44 | 1.8 | 0.07 | 0.79 | 0.16 | 20 | | | | | |
| 1 30 ISL | 12.59 | 12.59 | 33.525 | 25.332 | 264.0 | 0.094 | 5.78 | 95.8 | 6.0 | 0.74 | 6.2 | 0.22 | 0.94 | 0.36 | 30 | | | | | |
| 1 31 | 12.47 | 12.47 | 33.530 | 25.359 | 261.4 | 0.097 | 5.73 | 94.7 | 6.2 | 0.77 | 6.7 | 0.24 | 0.95 | 0.37 | 31 | | | | | |
| 1 40 | 11.73 | 11.72 | 33.526 | 25.496 | 248.5 | 0.120 | 5.79 | 94.2 | 9.5 | 1.04 | 10.8 | 0.45 | 0.94 | 0.30 | 40 | | | | | |
| 1 50 | 11.26 | 11.25 | 33.631 | 25.664 | 232.8 | 0.144 | 4.29 | 69.1 | 14.4 | 1.30 | 15.3 | 0.35 | 0.51 | 0.23 | 50 | | | | | |
| 1 60 | 10.75 | 10.74 | 33.662 | 25.780 | 222.0 | 0.166 | 3.85 | 61.4 | 17.7 | 1.46 | 18.2 | 0.07 | 0.29 | 0.16 | 60 | | | | | |
| 1 70 | 10.40 | 10.39 | 33.714 | 25.881 | 212.5 | 0.188 | 3.58 | 56.7 | 20.2 | 1.59 | 20.2 | 0.05 | 0.17 | 0.14 | 71 | | | | | |
| 1 75 ISL | 10.30 | 10.30 | 33.723 | 25.904 | 210.5 | 0.199 | 3.52 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| | | | 0639 GMT | 1668 M | 180 | 04 KT | | | 1013.0 MB | 14.5 C | 14.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 16.54 | 16.54 | 33.509 | 24.478 | 344.4 | 0.000 | 6.05 | 108.6 | 5.3 | 0.33 | 0.4 | 0.02 | 0.72 | 0.11 | 0 |
| 1 | 9 | 14.80 | 14.80 | 33.555 | 24.902 | 304.4 | 0.029 | 6.37 | 110.5 | 6.6 | 0.36 | 0.7 | 0.03 | 1.24 | 0.20 | 9 |
| 1 | 10 ISL | 14.73 | 14.73 | 33.557 | 24.919 | 302.8 | 0.032 | 6.35 | 110.0 | 6.7 | 0.37 | 0.9 | 0.03 | 1.29 | 0.22 | 10 |
| 1 | 20 | 13.94 | 13.94 | 33.573 | 25.098 | 286.0 | 0.062 | 6.13 | 104.5 | 7.7 | 0.49 | 2.8 | 0.07 | 1.66 | 0.44 | 20 |
| 1 | 30 | 11.54 | 11.54 | 33.673 | 25.645 | 234.1 | 0.088 | 4.41 | 71.5 | 14.3 | 1.20 | 13.4 | 0.62 | 1.59 | 0.50 | 30 |
| 1 | 40 | 10.86 | 10.86 | 33.723 | 25.807 | 218.9 | 0.110 | 3.76 | 60.1 | 18.9 | 1.46 | 18.0 | 0.27 | 0.97 | 0.32 | 40 |
| 1 | 50 | 10.38 | 10.37 | 33.773 | 25.930 | 207.4 | 0.132 | 3.34 | 52.9 | 22.4 | 1.63 | 20.9 | 0.06 | 0.26 | 0.18 | 50 |
| 1 | 60 | 10.00 | 9.99 | 33.834 | 26.043 | 196.9 | 0.152 | 3.04 | 47.7 | 25.5 | 1.76 | 23.0 | 0.05 | 0.10 | 0.17 | 60 |
| 1 | 70 | 9.86 | 9.85 | 33.854 | 26.082 | 193.4 | 0.171 | 2.95 | 46.2 | 26.7 | 1.80 | 23.7 | 0.05 | 0.06 | 0.16 | 71 |
| 1 | 75 ISL | 9.80 | 9.79 | 33.871 | 26.105 | 191.3 | 0.181 | 2.89 | 45.2 | 27.3 | 1.82 | 24.1 | 0.05 | 0.06 | 0.15 | 76 |
| 1 | 84 | 9.68 | 9.67 | 33.903 | 26.151 | 187.2 | 0.198 | 2.77 | 43.2 | 28.5 | 1.87 | 24.8 | 0.04 | 0.05 | 0.14 | 85 |
| 1 | 99 | 9.46 | 9.45 | 33.948 | 26.222 | 180.6 | 0.226 | 2.60 | 40.4 | 31.1 | 1.96 | 25.9 | 0.03 | 0.04 | 0.16 | 100 |
| 1 | 100 ISL | 9.45 | 9.44 | 33.951 | 26.226 | 180.3 | 0.227 | 2.59 | 40.2 | 31.2 | 1.97 | 26.0 | 0.03 | 0.04 | 0.16 | 101 |
| 1 | 119- | 9.21 | 9.20 | 34.003 | 26.306 | 173.0 | 0.261 | 2.39 | 36.9 | 33.3 | 2.06 | 27.2 | 0.02 | 0.02 | 0.11 | 120 |
| 1 | 125 ISL | 9.14 | 9.13 | 34.019 | 26.330 | 170.9 | 0.271 | 2.33 | 35.9 | 34.0 | 2.09 | 27.6 | 0.02 | 0.02 | 0.11 | 126 |
| 1 | 144 | 8.94 | 8.92 | 34.061 | 26.395 | 165.1 | 0.303 | 2.17 | 33.3 | 36.4 | 2.17 | 28.6 | 0.02 | 0.02 | 0.09 | 145 |
| 1 | 150 ISL | 8.89 | 8.87 | 34.069 | 26.409 | 163.8 | 0.313 | 2.13 | 32.7 | 37.1 | 2.19 | 28.8 | 0.02 | 0.02 | 0.09 | 151 |
| 1 | 174 | 8.67 | 8.65 | 34.098 | 26.467 | 158.8 | 0.352 | 1.97 | 30.1 | 40.0 | 2.27 | 29.8 | 0.04 | 0.02 | 0.11 | 175 |
| 1 | 200 ISL | 8.38 | 8.36 | 34.144 | 26.548 | 151.5 | 0.392 | 1.71 | 25.9 | 43.5 | 2.40 | 31.1 | 0.03 | 0.03 | 0.08 | 202 |
| 1 | 203 | 8.35 | 8.33 | 34.149 | 26.556 | 150.8 | 0.397 | 1.68 | 25.5 | 43.9 | 2.42 | 31.3 | 0.03 | 0.03 | 0.08 | 205 |
| 1 | 232 | 8.03 | 8.01 | 34.170 | 26.621 | 145.0 | 0.440 | 1.50 | 22.6 | 47.8 | 2.50 | 32.6 | 0.02 | | | 234 |
| 1 | 250 ISL | 7.93 | 7.90 | 34.183 | 26.646 | 142.9 | 0.465 | 1.38 | 20.7 | 49.7 | 2.55 | 33.1 | 0.01 | | | 252 |
| 1 | 271 | 7.84 | 7.81 | 34.199 | 26.672 | 140.7 | 0.495 | 1.23 | 18.4 | 51.8 | 2.61 | 33.7 | 0.01 | | | 273 |
| 1 | 300 ISL | 7.64 | 7.61 | 34.229 | 26.726 | 136.1 | 0.535 | 0.98 | 14.6 | 55.7 | 2.72 | 34.8 | 0.01 | | | 302 |
| 1 | 325 | 7.43 | 7.40 | 34.254 | 26.776 | 131.7 | 0.569 | 0.78 | 11.6 | 59.4 | 2.82 | 35.8 | 0.01 | | | 328 |
| 1 | 383 | 6.89 | 6.85 | 34.285 | 26.876 | 122.7 | 0.643 | 0.50 | 7.3 | 68.4 | 2.97 | 38.0 | 0.00 | | | 386 |
| 1 | 400 ISL | 6.75 | 6.71 | 34.294 | 26.902 | 120.4 | 0.663 | 0.44 | 6.4 | 70.7 | 3.01 | 38.4 | 0.00 | | | 403 |
| 1 | 449 | 6.40 | 6.36 | 34.317 | 26.967 | 114.7 | 0.721 | 0.33 | 4.8 | 76.8 | 3.10 | 39.4 | 0.00 | | | 453 |
| 1 | 500 ISL | 6.10 | 6.06 | 34.333 | 27.019 | 110.2 | 0.778 | 0.27 | 3.9 | 82.8 | 3.17 | 40.0 | 0.00 | | | 504 |
| 1 | 519 | 5.99 | 5.94 | 34.339 | 27.037 | 108.6 | 0.799 | 0.25 | 3.6 | 85.1 | 3.19 | 40.2 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|--|
| | | | 1020 GMT | 79 M | 220 | 03 KT | | | 1013.9 MB | 13.9 C | 13.1 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS | |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 0 ISL | 16.68 | 16.68 | 33.526 | 24.459 | 346.3 | 0.000 | 5.97 | 107.5 | 3.7 | 0.28 | 0.0 | 0.01 | 0.58 | 0.11 | 0 | | |
| 1 | 16.68 | 16.68 | 33.526 | 24.459 | 346.4 | 0.003 | 5.97 | 107.5 | 3.7 | 0.28 | 0.0 | 0.01 | 0.58 | 0.11 | 1 | | |
| 10 ISL | 15.96 | 15.96 | 33.521 | 24.620 | 331.2 | 0.034 | 6.15 | 109.2 | 4.0 | 0.29 | 0.0 | 0.01 | 0.71 | 0.18 | 10 | | |
| 1 | 15.88 | 15.88 | 33.521 | 24.638 | 329.6 | 0.037 | 6.15 | 109.0 | 4.0 | 0.29 | 0.0 | 0.01 | 0.73 | 0.20 | 11 | | |
| 20 ISL | 13.54 | 13.54 | 33.557 | 25.168 | 279.4 | 0.065 | 5.44 | 92.0 | 8.0 | 0.69 | 5.6 | 0.21 | 1.27 | 0.42 | 20 | | |
| 1 | 21 | 13.25 | 13.25 | 33.565 | 25.232 | 273.2 | 0.067 | 5.34 | 89.8 | 8.6 | 0.74 | 6.4 | 0.23 | 1.31 | 0.44 | 21 | |
| 30 ISL | 11.59 | 11.59 | 33.598 | 25.578 | 240.6 | 0.091 | 4.58 | 74.3 | 13.1 | 1.16 | 13.0 | 0.33 | 0.70 | 0.24 | 30 | | |
| 1 | 32 | 11.33 | 11.33 | 33.603 | 25.629 | 235.7 | 0.095 | 4.44 | 71.7 | 13.9 | 1.23 | 14.2 | 0.34 | 0.53 | 0.19 | 32 | |
| 1 | 42 | 10.89 | 10.88 | 33.615 | 25.718 | 227.5 | 0.118 | 4.18 | 66.8 | 15.8 | 1.34 | 16.3 | 0.33 | 0.38 | 0.21 | 42 | |
| 50 ISL | 10.78 | 10.77 | 33.636 | 25.754 | 224.2 | 0.137 | 4.09 | 65.2 | 16.5 | 1.38 | 16.9 | 0.35 | 0.34 | 0.23 | 50 | | |
| 1 | 52 | 10.75 | 10.74 | 33.644 | 25.765 | 223.2 | 0.141 | 4.06 | 64.7 | 16.8 | 1.39 | 17.1 | 0.35 | 0.33 | 0.23 | 52 | |
| 2 | 62 | 10.23 | 10.22 | 33.720 | 25.915 | 209.1 | 0.163 | 3.57 | 56.3 | 20.8 | 1.59 | 20.2 | 0.32 | 0.16 | 0.16 | 62 | |
| 75 ISL | 9.88 | 9.87 | 33.783 | 26.023 | 199.1 | 0.189 | 3.20 | 50.1 | 24.1 | 1.74 | 22.6 | 0.25 | 0.10 | 0.19 | 76 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|------|-------|------|-------|-------|-------|--|
| | | | 1341 GMT | 1241 M | 320 | 04 KT | 310 | 03 | 06 | 4 | | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS | |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 0 | 14.69 | 14.69 | 33.347 | 24.765 | 317.1 | 0.000 | 6.02 | 104.1 | 2.9 | 0.46 | 1.1 | 0.05 | 0.25 | 0.08 | 0 | | |
| 1 | 14.23 | 14.23 | 33.393 | 24.898 | 304.7 | 0.028 | 6.11 | 104.7 | 3.2 | 0.49 | 1.7 | 0.07 | 0.32 | 0.11 | 9 | | |
| 10 ISL | 14.21 | 14.21 | 33.394 | 24.903 | 304.2 | 0.031 | 6.11 | 104.6 | 3.2 | 0.49 | 1.7 | 0.07 | 0.32 | 0.12 | 10 | | |
| 1 | 20 | 13.91 | 13.91 | 33.403 | 24.973 | 297.9 | 0.061 | 6.16 | 104.9 | 3.4 | 0.49 | 1.8 | 0.07 | 0.36 | 0.22 | 20 | |
| 30 ISL | 13.17 | 13.17 | 33.445 | 25.156 | 280.7 | 0.090 | 6.07 | 101.8 | 4.0 | 0.61 | 3.5 | 0.10 | 0.55 | 0.27 | 30 | | |
| 1 | 31 | 13.08 | 13.08 | 33.450 | 25.178 | 278.7 | 0.093 | 6.06 | 101.4 | 4.1 | 0.63 | 3.8 | 0.11 | 0.57 | 0.27 | 31 | |
| 1 | 41 | 12.01 | 12.00 | 33.476 | 25.405 | 257.3 | 0.120 | 5.53 | 90.5 | 7.6 | 0.93 | 8.1 | 0.20 | 0.60 | 0.23 | 41 | |
| 1 | 50 | 11.29 | 11.28 | 33.499 | 25.556 | 243.1 | 0.142 | 4.71 | 75.9 | 11.9 | 1.15 | 12.9 | 0.19 | 0.32 | 0.23 | 50 | |
| 1 | 60 | 10.49 | 10.48 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|-----------|-----------|-----------|--------|--------|------|------|-------|--------|-------|
| 32 59.4 N | 120 21.0 W | 07/05/87 | 1747 | GMT | 742 M | IIO | 04 KT | 320 02 07 | 2 | 1013.8 MB | 15.0 C | 13.6 C | 8/8 | CI | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 14.88 | 14.88 | 33.544 | 24.876 | 306.5 | 0.000 | 6.01 | 104.4 | 4.8 | 0.45 | 1.5 | 0.04 | 0.55 | 0.09 | 0.09 | 0 |
| 1 | 1 | 14.88 | 14.88 | 33.544 | 24.876 | 306.6 | 0.003 | 6.01 | 104.4 | 4.8 | 0.45 | 1.5 | 0.04 | 0.55 | 0.09 | 0.09 | 1 |
| 1 | 10 ISL | 14.80 | 14.80 | 33.552 | 24.900 | 304.6 | 0.031 | 5.97 | 105.6 | 5.0 | 0.49 | 2.0 | 0.05 | 0.35 | 0.06 | 0.06 | 10 |
| 1 | 11 | 14.79 | 14.79 | 33.553 | 24.903 | 304.3 | 0.034 | 5.97 | 103.6 | 5.0 | 0.49 | 2.0 | 0.05 | 0.32 | 0.06 | 0.06 | 11 |
| 1 | 20 ISL | 14.09 | 14.09 | 33.566 | 25.062 | 289.5 | 0.060 | 6.08 | 104.0 | 5.2 | 0.66 | 3.8 | 0.09 | 0.35 | 0.09 | 0.09 | 20 |
| 1 | 21 | 14.00 | 14.00 | 33.567 | 25.081 | 287.7 | 0.063 | 6.09 | 104.0 | 5.2 | 0.68 | 4.0 | 0.09 | 0.35 | 0.09 | 0.09 | 21 |
| 1 | 30 ISL | 13.62 | 13.62 | 33.556 | 25.151 | 281.2 | 0.089 | 6.13 | 103.8 | 5.1 | 0.66 | 4.2 | 0.10 | 0.32 | 0.12 | 0.12 | 30 |
| 1 | 31 | 13.58 | 13.58 | 33.552 | 25.156 | 280.8 | 0.092 | 6.14 | 103.9 | 5.1 | 0.66 | 4.2 | 0.10 | 0.32 | 0.12 | 0.12 | 31 |
| 1 | 41 | 12.86 | 12.85 | 33.445 | 25.218 | 275.1 | 0.119 | 5.92 | 98.6 | 5.8 | 0.72 | 5.3 | 0.16 | 0.54 | 0.21 | 0.21 | 41 |
| 1 | 50 ISL | 12.39 | 12.38 | 33.402 | 25.276 | 269.8 | 0.144 | 5.61 | 92.5 | 6.9 | 0.80 | 6.8 | 0.21 | 0.59 | 0.24 | 0.24 | 50 |
| 1 | 52 | 12.29 | 12.28 | 33.398 | 25.292 | 268.3 | 0.149 | 5.52 | 90.8 | 7.3 | 0.83 | 7.3 | 0.22 | 0.60 | 0.25 | 0.25 | 52 |
| 1 | 61 | 11.63 | 11.62 | 33.406 | 25.422 | 256.1 | 0.173 | 4.94 | 80.2 | 10.2 | 1.02 | 10.8 | 0.22 | 0.40 | 0.16 | 0.16 | 61 |
| 1 | 71 | 11.09 | 11.08 | 33.524 | 25.612 | 238.3 | 0.198 | 4.43 | 71.1 | 13.9 | 1.28 | 14.6 | 0.33 | 0.37 | 0.18 | 0.18 | 72 |
| 1 | 75 ISL | 10.86 | 10.85 | 33.565 | 25.685 | 231.4 | 0.207 | 4.28 | 68.4 | 15.8 | 1.38 | 16.3 | 0.35 | 0.32 | 0.18 | 0.18 | 76 |
| 1 | 85 | 10.37 | 10.36 | 33.657 | 25.842 | 216.5 | 0.229 | 3.91 | 61.8 | 20.3 | 1.60 | 20.1 | 0.39 | 0.18 | 0.17 | 0.17 | 86 |
| 1 | 99 | 10.03 | 10.02 | 33.771 | 25.990 | 202.8 | 0.259 | 3.22 | 50.6 | 23.8 | 1.78 | 23.0 | 0.09 | 0.09 | 0.16 | 0.16 | 100 |
| 1 | 100 ISL | 10.00 | 9.99 | 33.777 | 25.999 | 201.9 | 0.261 | 3.19 | 50.1 | 24.0 | 1.79 | 23.2 | 0.09 | 0.09 | 0.16 | 0.16 | 101 |
| 1 | 118 | 9.42 | 9.41 | 33.856 | 26.157 | 187.2 | 0.296 | 2.92 | 45.2 | 27.3 | 1.88 | 25.1 | 0.01 | 0.05 | 0.17 | 0.17 | 119 |
| 1 | 125 ISL | 9.23 | 9.22 | 33.867 | 26.197 | 183.6 | 0.309 | 2.96 | 45.7 | 27.9 | 1.88 | 25.4 | 0.01 | 0.05 | 0.16 | 0.16 | 126 |
| 1 | 144 | 8.80 | 8.78 | 33.889 | 26.282 | 175.7 | 0.343 | 3.10 | 47.4 | 29.6 | 1.89 | 26.0 | 0.01 | 0.04 | 0.11 | 0.11 | 145 |
| 1 | 150 ISL | 8.68 | 8.66 | 33.910 | 26.317 | 172.5 | 0.353 | 3.07 | 46.8 | 30.8 | 1.91 | 26.4 | 0.01 | 0.03 | 0.10 | 0.10 | 151 |
| 1 | 174 | 8.31 | 8.29 | 34.000 | 26.445 | 160.7 | 0.393 | 2.77 | 41.9 | 36.2 | 2.04 | 28.4 | 0.01 | 0.01 | 0.08 | 0.08 | 175 |
| 1 | 200 ISL | 8.12 | 8.10 | 34.064 | 26.524 | 153.6 | 0.434 | 2.28 | 34.3 | 40.9 | 2.22 | 29.9 | 0.00 | 0.01 | 0.08 | 0.08 | 202 |
| 1 | 203 | 8.10 | 8.08 | 34.070 | 26.552 | 152.9 | 0.439 | 2.22 | 33.4 | 41.4 | 2.24 | 30.1 | 0.00 | 0.01 | 0.08 | 0.08 | 205 |
| 1 | 232 | 7.89 | 7.87 | | | | 0.482 | 1.72 | 25.8 | 47.0 | 2.44 | 32.4 | 0.01 | | | | 234 |
| 1 | 250 ISL | 7.69 | 7.67 | 34.155 | 26.659 | 141.5 | 0.508 | 1.46 | 21.8 | 50.8 | 2.56 | 33.7 | 0.01 | | | | 252 |
| 1 | 271 | 7.44 | 7.41 | 34.180 | 26.715 | 136.4 | 0.537 | 1.22 | 18.1 | 55.0 | 2.67 | 35.0 | 0.00 | | | | 273 |
| 1 | 300 ISL | 7.16 | 7.13 | 34.189 | 26.762 | 132.3 | 0.576 | 1.05 | 15.5 | 58.8 | 2.76 | 36.2 | 0.00 | | | | 302 |
| 1 | 324 | 6.97 | 6.94 | 34.192 | 26.791 | 129.9 | 0.608 | 0.96 | 14.1 | 61.2 | 2.80 | 36.9 | 0.00 | | | | 327 |
| 1 | 384 | 6.66 | 6.62 | 34.231 | 26.864 | 123.7 | 0.684 | 0.69 | 10.1 | 67.6 | 2.92 | 38.4 | 0.00 | | | | 387 |
| 1 | 400 ISL | 6.60 | 6.56 | 34.239 | 26.878 | 122.5 | 0.703 | 0.63 | 9.2 | 68.9 | 2.94 | 38.7 | 0.00 | | | | 403 |
| 1 | 448 | 6.41 | 6.37 | 34.264 | 26.924 | 118.7 | 0.761 | 0.49 | 7.1 | 73.0 | 3.01 | 39.5 | 0.00 | | | | 452 |
| 1 | 500 ISL | 6.01 | 5.97 | 34.297 | 27.001 | 111.7 | 0.821 | 0.37 | 5.3 | 80.3 | 3.11 | 40.9 | 0.00 | | | | 504 |
| 1 | 516 | 5.89 | 5.85 | 34.307 | 27.025 | 109.6 | 0.839 | 0.33 | 4.7 | 82.5 | 3.14 | 41.3 | 0.00 | | | | 520 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|-----------|--------|--------|------|-------|--------|-------|
| 32 39.4 N | 121 2.0 W | 07/05/87 | 2326 | GMT | 3828 M | 230 | 06 | KT | 290 02 07 | 2 | 1012.9 MB | 16.0 C | 14.0 C | 8/8 | SC | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 | 14.81 | 14.81 | 33.257 | 24.670 | 326.1 | 0.000 | 6.06 | 105.0 | 2.3 | 0.38 | 0.0 | 0.00 | 0.17 | 0.03 | 0 | |
| 1 | 10 ISL | 14.55 | 14.55 | 33.265 | 24.732 | 320.6 | 0.032 | 6.07 | 104.6 | 2.3 | 0.38 | 0.0 | 0.00 | 0.19 | 0.05 | 10 | |
| 1 | 11 | 14.52 | 14.52 | 33.266 | 24.739 | 319.9 | 0.036 | 6.07 | 104.5 | 2.3 | 0.38 | 0.0 | 0.00 | 0.19 | 0.05 | 11 | |
| 1 | 19 | 14.50 | 14.50 | 33.307 | 24.775 | 316.7 | 0.061 | 6.06 | 104.3 | 2.3 | 0.38 | 0.0 | 0.00 | 0.21 | 0.06 | 19 | |
| 1 | 20 ISL | 14.50 | 14.50 | 33.310 | 24.778 | 316.5 | 0.064 | 6.06 | 104.4 | 2.3 | 0.38 | 0.0 | 0.00 | 0.21 | 0.06 | 20 | |
| 1 | 30 ISL | 14.41 | 14.41 | 33.316 | 24.802 | 314.5 | 0.096 | 6.06 | 104.2 | 2.2 | 0.37 | 0.0 | 0.00 | 0.26 | 0.08 | 30 | |
| 1 | 31 | 14.39 | 14.39 | 33.315 | 24.805 | 314.2 | 0.099 | 6.06 | 104.1 | 2.2 | 0.37 | 0.0 | 0.00 | 0.26 | 0.08 | 31 | |
| 1 | 41 | 14.08 | 14.07 | 33.304 | 24.862 | 309.1 | 0.130 | 6.10 | 104.1 | 2.2 | 0.38 | 0.0 | 0.01 | 0.49 | 0.15 | 41 | |
| 1 | 50 ISL | 13.29 | 13.28 | 33.285 | 25.009 | 295.3 | 0.157 | 6.07 | 101.9 | 2.2 | 0.48 | 1.0 | 0.13 | 0.65 | 0.25 | 50 | |
| 1 | 51 | 13.21 | 13.20 | 33.285 | 25.025 | 293.8 | 0.160 | 6.07 | 101.8 | 2.2 | 0.49 | 1.1 | 0.14 | 0.67 | 0.26 | 51 | |
| 1 | 60 | 13.16 | 13.15 | 33.336 | 25.074 | 289.3 | 0.186 | 5.98 | 100.2 | 2.8 | 0.51 | 1.4 | 0.17 | 0.87 | 0.38 | 60 | |
| 1 | 70 | 12.94 | 12.93 | 33.364 | 25.140 | 283.3 | 0.215 | 5.79 | 96.6 | 3.7 | 0.60 | 2.9 | 0.28 | 0.52 | 0.27 | 71 | |
| 1 | 75 ISL | 12.68 | 12.67 | 33.366 | 25.192 | 278.4 | 0.229 | 5.66 | 93.9 | 4.7 | 0.68 | 4.3 | 0.32 | 0.36 | 0.22 | 76 | |
| 1 | 85 | 12.12 | 12.11 | 33.382 | 25.312 | 267.2 | 0.256 | 5.40 | 88.5 | 7.0 | 0.86 | 7.4 | 0.36 | 0.13 | 0.16 | 86 | |
| 1 | 99 | 11.62 | 11.61 | 33.490 | 25.490 | 250.6 | 0.293 | 5.16 | 83.7 | 10.1 | 1.05 | 10.4 | 0.32 | 0.08 | 0.15 | 100 | |
| 1 | 100 ISL | 11.60 | 11.59 | 33.497 | 25.499 | 249.7 | 0.295 | 5.16 | 83.7 | 10.2 | 1.06 | 10.5 | 0.32 | 0.08 | 0.15 | 101 | |
| 1 | 119 | 11.26 | 11.25 | 33.626 | 25.662 | 234.7 | 0.341 | 4.88 | 78.6 | 13.0 | 1.25 | 13.3 | 0.29 | 0.05 | 0.13 | 120 | |
| 1 | 125 ISL | 11.01 | 10.99 | 33.657 | 25.731 | 228.2 | 0.355 | 4.53 | 72.6 | 15.1 | 1.37 | 15.4 | 0.23 | 0.05 | 0.13 | 126 | |
| 1 | 143 | 10.19 | 10.17 | 33.746 | 25.944 | 208.2 | 0.394 | 3.40 | 53.6 | 21.9 | 1.71 | 21.9 | 0.04 | 0.05 | 0.13 | 144 | |
| 1 | 150 ISL | 9.97 | 9.95 | 33.786 | 26.012 | 201.8 | 0.409 | 3.16 | 49.5 | 23.9 | 1.79 | 23.2 | 0.03 | 0.04 | 0.13 | 151 | |
| 1 | 173 | 9.41 | 9.39 | 33.902 | 26.196 | 184.7 | 0.453 | 2.73 | 42.3 | 29.2 | 1.94 | 25.8 | 0.01 | 0.02 | 0.15 | 174 | |
| 1 | 200 ISL | 8.87 | 8.85 | 33.967 | 26.333 | 172.0 | 0.501 | 2.62 | 40.1 | 33.0 | 2.03 | 27.6 | 0.01 | 0.02 | 0.15 | 202 | |
| 1 | 202 | 8.83 | 8.81 | 33.971 | 26.343 | 171.1 | 0.505 | 2.62 | 40.1 | 33.3 | 2.04 | 27.7 | 0.01 | 0.02 | 0.15 | 204 | |
| 1 | 231 | 8.25 | 8.23 | 34.052 | 26.496 | 156.9 | 0.552 | 2.36 | 35.6 | 39.5 | 2.19 | 29.8 | 0.01 | | | 233 | |
| 1 | 250 ISL | 7.99 | 7.96 | 34.062 | 26.542 | 152.7 | 0.582 | 2.30 | 34.5 | 42.0 | 2.23 | 30.6 | 0.01 | | | 252 | |
| 1 | 270 | 7.76 | 7.73 | 34.057 | 26.573 | 150.1 | 0.612 | 2.25 | 33.6 | 44.2 | 2.27 | 31.4 | 0.01 | | | 272 | |
| 1 | 300 ISL | 7.39 | 7.36 | 34.067 | 26.634 | 144.6 | 0.656 | 2.01 | 29.8 | 48.9 | 2.38 | 33.0 | 0.00 | | | 302 | |
| 1 | 324 | 7.11 | 7.08 | 34.078 | 26.682 | 140.3 | 0.690 | 1.77 | 26.0 | 53.2 | 2.49 | 34.4 | 0.00 | | | 327 | |
| 1 | 384 | 6.49 | 6.46 | 34.122 | 26.800 | 129.5 | 0.771 | 1.14 | 16.5 | 64.7 | 2.78 | 38.0 | 0.00 | | | 387 | |
| 1 | 400 ISL | 6.41 | 6.3 | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------------|
| 32 19.4 N | 121 42.9 W | 08/05/87 | 0439 GMT | 4018 M | 350 | 06 KT | | | 1013.5 MB | 15.2 C | 13.4 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS D.BAR |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | |
| 1 | 0 | 15.63 | 15.63 | 33.171 | 24.425 | 349.5 | 0.000 | 5.85 | 103.0 | 1.8 | 0.36 | 0.0 | 0.00 | 0.09 | 0.03 | 0 |
| | 10 ISL | 15.51 | 15.51 | 33.155 | 24.439 | 348.5 | 0.035 | 5.88 | 103.2 | 1.9 | 0.37 | 0.0 | 0.00 | 0.10 | 0.03 | 10 |
| 1 | 15 | 15.45 | 15.45 | 33.148 | 24.447 | 347.9 | 0.052 | 5.90 | 103.4 | 1.9 | 0.38 | 0.0 | 0.00 | 0.11 | 0.03 | 15 |
| | 20 ISL | 15.45 | 15.45 | 33.148 | 24.448 | 348.0 | 0.070 | 5.89 | 103.3 | 1.8 | 0.38 | 0.0 | 0.00 | 0.11 | 0.03 | 20 |
| 1 | 30 | 15.45 | 15.45 | 33.149 | 24.448 | 348.2 | 0.105 | 5.87 | 102.9 | 1.7 | 0.37 | 0.0 | 0.00 | 0.12 | 0.02 | 30 |
| 1 | 41 | 15.36 | 15.35 | 33.147 | 24.467 | 346.8 | 0.143 | 5.89 | 103.1 | 1.7 | 0.36 | 0.0 | 0.00 | 0.12 | 0.06 | 41 |
| | 50 ISL | 14.62 | 14.61 | 33.123 | 24.609 | 333.5 | 0.173 | 6.02 | 103.8 | 1.7 | 0.37 | 0.0 | 0.00 | 0.14 | 0.06 | 50 |
| 1 | 51 | 14.53 | 14.52 | 33.120 | 24.626 | 331.9 | 0.177 | 6.03 | 103.8 | 1.7 | 0.37 | 0.0 | 0.00 | 0.14 | 0.06 | 51 |
| 1 | 60 | 14.00 | 13.99 | 33.109 | 24.728 | 322.3 | 0.206 | 6.02 | 102.5 | 1.9 | 0.38 | 0.0 | 0.00 | 0.22 | 0.09 | 60 |
| 1 | 70 | 13.63 | 13.62 | 33.138 | 24.827 | 313.2 | 0.238 | 5.96 | 100.7 | 2.5 | 0.43 | 0.2 | 0.06 | 0.43 | 0.17 | 71 |
| | 75 ISL | 13.35 | 13.34 | 33.180 | 24.916 | 304.8 | 0.253 | 5.83 | 98.0 | 2.9 | 0.49 | 1.3 | 0.14 | 0.45 | 0.20 | 76 |
| 1 | 78 | 13.16 | 13.15 | 33.206 | 24.974 | 299.3 | 0.262 | 5.74 | 96.1 | 3.2 | 0.53 | 2.1 | 0.18 | 0.46 | 0.21 | 79 |
| 1 | 93 | 12.29 | 12.28 | 33.260 | 25.186 | 279.5 | 0.306 | 5.35 | 88.0 | 5.6 | 0.75 | 6.3 | 0.05 | 0.29 | 0.21 | 94 |
| | 100 ISL | 11.62 | 11.61 | 33.285 | 25.331 | 265.7 | 0.325 | 5.15 | 83.5 | 7.4 | 0.87 | 8.7 | 0.04 | 0.21 | 0.17 | 101 |
| 1 | 109 | 10.80 | 10.79 | 33.339 | 25.520 | 247.8 | 0.348 | 4.86 | 77.4 | 10.2 | 1.04 | 11.9 | 0.02 | 0.13 | 0.12 | 110 |
| 1 | 123 | 10.19 | 10.18 | 33.492 | 25.745 | 226.6 | 0.381 | 4.31 | 67.8 | 15.6 | 1.35 | 16.9 | 0.01 | 0.06 | 0.07 | 124 |
| 125 ISL | 10.11 | 10.10 | 33.512 | 25.774 | 223.9 | 0.386 | 4.24 | 66.6 | 16.3 | 1.38 | 17.5 | 0.01 | 0.06 | 0.07 | 126 | |
| 1 | 147 | 9.41 | 9.39 | | | 0.432 | | | | | | | | | | 148 |
| 150 ISL | 9.34 | 9.32 | 33.722 | 26.066 | 196.5 | 0.438 | 3.56 | 55.0 | 23.5 | 1.69 | 22.9 | 0.00 | 0.03 | 0.05 | 151 | |
| 1 | 172 | 8.93 | 8.91 | 33.850 | 26.232 | 181.1 | 0.480 | 3.22 | 49.3 | 28.0 | 1.82 | 25.3 | 0.00 | 0.00 | 0.04 | 173 |
| 200 ISL | 8.47 | 8.45 | 33.945 | 26.378 | 167.6 | 0.529 | 3.11 | 47.2 | 32.0 | 1.92 | 26.7 | 0.00 | 0.00 | 0.02 | 202 | |
| 1 | 202 | 8.44 | 8.42 | 33.950 | 26.386 | 166.8 | 0.532 | 3.10 | 47.0 | 32.3 | 1.93 | 26.8 | 0.00 | 0.00 | 0.02 | 204 |
| 1 | 231 | 8.17 | 8.15 | 34.031 | 26.491 | 157.3 | 0.579 | 2.62 | 39.5 | 37.9 | 2.10 | 29.1 | 0.00 | | | 233 |
| 250 ISL | 7.98 | 7.95 | 34.058 | 26.541 | 152.9 | 0.608 | 2.38 | 35.7 | 41.1 | 2.20 | 30.3 | 0.00 | | | 252 | |
| 1 | 270 | 7.78 | 7.75 | 34.079 | 26.587 | 148.8 | 0.638 | 2.13 | 31.8 | 44.5 | 2.31 | 31.5 | 0.00 | | | 272 |
| 300 ISL | 7.53 | 7.50 | 34.125 | 26.659 | 142.3 | 0.682 | 1.64 | 24.4 | 50.4 | 2.51 | 33.5 | 0.00 | | | 302 | |
| 1 | 325 | 7.35 | 7.32 | 34.163 | 26.715 | 137.3 | 0.717 | 1.26 | 18.7 | 55.0 | 2.66 | 35.1 | 0.00 | | | 328 |
| 1 | 384 | | | 34.209 | | | 0.796 | 0.87 | 12.8 | 62.0 | 2.85 | 37.3 | 0.00 | | | 387 |
| 400 ISL | 6.867 | 6.830 | 34.228 | 26.834 | 126.9 | 0.816 | 0.78 | 11.4 | 63.9 | 2.89 | 37.8 | 0.00 | | | 403 | |
| 1 | 449 | 6.51 | 6.47 | 34.242 | 26.893 | 121.7 | 0.877 | 0.58 | 8.4 | 70.0 | 2.98 | 39.2 | 0.00 | | | 453 |
| 500 ISL | 5.97 | 5.93 | 34.234 | 26.957 | 115.9 | 0.938 | 0.49 | 7.0 | 77.9 | 3.07 | 41.0 | 0.00 | | | 504 | |
| 1 | 520 | 5.76 | 5.72 | 34.232 | 26.981 | 113.6 | 0.961 | 0.45 | 6.4 | 81.0 | 3.10 | 41.7 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------------|
| 31 59.4 N | 122 23.6 W | 08/05/87 | 0937 GMT | 4162 M | 350 | 03 KT | | | 1013.2 MB | 15.3 C | 12.9 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS D.BAR |
| M | DEG C | DEG C | | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | |
| 1 | 0 | 16.16 | 16.16 | 33.313 | 24.415 | 350.5 | 0.000 | 5.74 | 102.2 | 2.1 | 0.34 | 0.0 | 0.00 | 0.06 | 0.01 | 0 |
| | 10 ISL | 16.11 | 16.11 | 33.305 | 24.420 | 350.3 | 0.035 | 5.76 | 102.4 | 1.9 | 0.37 | 0.1 | 0.00 | 0.06 | 0.01 | 10 |
| 1 | 15 | 16.08 | 16.08 | 33.301 | 24.424 | 350.1 | 0.053 | 5.77 | 102.5 | 1.8 | 0.38 | 0.1 | 0.00 | 0.06 | 0.01 | 15 |
| | 20 ISL | 16.01 | 16.01 | 33.286 | 24.429 | 349.8 | 0.070 | 5.78 | 102.5 | 1.8 | 0.38 | 0.1 | 0.00 | 0.06 | 0.01 | 20 |
| 1 | 30 | 15.86 | 15.86 | 33.250 | 24.435 | 349.5 | 0.105 | 5.80 | 102.6 | 1.8 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 30 |
| 1 | 40 | 15.76 | 15.75 | 33.220 | 24.435 | 349.8 | 0.140 | 5.82 | 102.7 | 1.8 | 0.36 | 0.1 | 0.00 | 0.10 | 0.02 | 40 |
| 1 | 50 | 14.89 | 14.88 | 33.125 | 24.553 | 338.8 | 0.174 | 5.96 | 103.3 | 1.7 | 0.37 | 0.1 | 0.00 | 0.11 | 0.02 | 50 |
| 1 | 60 | 14.61 | 14.60 | 33.137 | 24.622 | 332.5 | 0.208 | 5.97 | 102.9 | 1.7 | 0.36 | 0.1 | 0.00 | 0.15 | 0.05 | 60 |
| 1 | 70 | 14.34 | 14.33 | 33.136 | 24.679 | 327.4 | 0.241 | 6.01 | 103.0 | 1.9 | 0.38 | 0.0 | 0.00 | 0.21 | 0.07 | 71 |
| | 75 ISL | 14.12 | 14.11 | 33.135 | 24.724 | 323.2 | 0.257 | 6.00 | 102.4 | 2.1 | 0.39 | 0.0 | 0.01 | 0.26 | 0.11 | 76 |
| 1 | 79 | 13.95 | 13.94 | 33.145 | 24.767 | 319.2 | 0.270 | 5.97 | 101.5 | 2.2 | 0.40 | 0.0 | 0.01 | 0.29 | 0.15 | 80 |
| 1 | 94 | 13.80 | 13.79 | 33.350 | 24.957 | 301.6 | 0.317 | 5.71 | 96.9 | 2.6 | 0.43 | 1.2 | 0.13 | 0.32 | 0.18 | 95 |
| | 100 ISL | 13.49 | 13.48 | 33.326 | 25.001 | 297.4 | 0.335 | 5.66 | 95.5 | 2.9 | 0.47 | 1.9 | 0.11 | 0.32 | 0.18 | 101 |
| 1 | 108 | 12.89 | 12.88 | 33.274 | 25.081 | 289.9 | 0.358 | 5.56 | 92.6 | 3.8 | 0.57 | 3.4 | 0.06 | 0.31 | 0.19 | 109 |
| 1 | 125 | 11.08 | 11.06 | 33.344 | 25.475 | 252.5 | 0.404 | 5.01 | 80.3 | 8.8 | 0.94 | 10.3 | 0.01 | 0.09 | 0.08 | 126 |
| 1 | 146 | 9.92 | 9.90 | 33.643 | 25.909 | 211.5 | 0.453 | 4.15 | 64.9 | 17.9 | 1.38 | 18.2 | 0.01 | 0.02 | 0.04 | 147 |
| 150 ISL | 9.78 | 9.76 | 33.675 | 25.957 | 206.9 | 0.461 | 4.06 | 65.3 | 19.1 | 1.43 | 19.1 | 0.01 | 0.02 | 0.04 | 151 | |
| 1 | 171 | 9.27 | 9.25 | 33.783 | 26.125 | 191.3 | 0.503 | 3.76 | 58.0 | 23.5 | 1.59 | 21.9 | 0.01 | 0.00 | 0.04 | 172 |
| 1 | 198 | 8.86 | 8.84 | 33.874 | 26.262 | 178.7 | 0.553 | 3.57 | 54.6 | 27.1 | 1.71 | 23.7 | 0.00 | 0.00 | 0.03 | 200 |
| 200 ISL | 8.82 | 8.80 | 33.882 | 26.275 | 177.5 | 0.557 | 3.54 | 54.1 | 27.6 | 1.72 | 23.9 | 0.00 | | | 202 | |
| 1 | 224 | 8.32 | 8.30 | 33.974 | 26.424 | 163.6 | 0.598 | 3.20 | 48.4 | 33.5 | 1.88 | 26.6 | 0.00 | | | 226 |
| 250 ISL | 7.86 | 7.84 | 34.004 | 26.516 | 155.1 | 0.639 | 2.99 | 44.7 | 38.4 | 2.00 | 28.5 | 0.00 | | | 252 | |
| 2 | 270 | 7.61 | 7.58 | 34.017 | 26.563 | 150.9 | 0.670 | 2.78 | 41.4 | 41.8 | 2.10 | 29.8 | 0.00 | | | 272 |
| 300 ISL | 7.58 | 7.55 | 34.097 | 26.630 | 145.0 | 0.714 | 2.02 | 30.0 | 47.4 | 2.36 | 32.2 | 0.00 | | | 302 | |
| 2 | 324 | 7.55 | 7.52 | 34.158 | 26.683 | 140.5 | 0.748 | 1.40 | 20.8 | 52.0 | 2.56 | 34.1 | 0.00 | | | 327 |
| 2 | 382 | 6.83 | 6.79 | 34.187 | 26.806 | 129.2 | 0.826 | 0.85 | 12.4 | 62.8 | 2.80 | 37.4 | 0.00 | | | 385 |
| 400 ISL | 6.55 | 6.51 | 34.176 | 26.835 | 126.5 | 0.849 | 0.83 | 12.1 | 66.4 | 2.85 | 38.4 | 0.00 | | | 403 | |
| 2 | 447 | 5.91 | 5.87 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 100

| LATITUDE 31 | LONGITUDE 123 | DAY/MO/YR 08/05/87 | MESSENGER 1503 | BOTTOM 3924 M | WIND 270 07 KT | SPEED 330 04 08 | WAVES 2 | WEATHER | BAROMETER 1014.4 MB | DRY 15.7 C | WET 12.1 C | CLOUD 8/8 | AMT | TYPE | | | |
|----------------|------------------|-----------------------|-------------------|------------------|-------------------|--------------------|------------|----------------|------------------------|---------------|---------------|--------------|-------------|---------------|----------------|----------------|---|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | P04 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAEAO UG/L | PRESS D.BAR | I |
| 1 | 0 ISL | 15.77 | 15.77 | 33.191 | 24.409 | 351.0 | 0.000 | 5.81 | 102.5 | 2.0 | 0.35 | 0.0 | 0.00 | 0.10 | 0.01 | 0 | |
| 1 | 1 | 15.77 | 15.77 | 33.191 | 24.409 | 351.1 | 0.004 | 5.81 | 102.5 | 2.0 | 0.35 | 0.0 | 0.00 | 0.10 | 0.01 | 1 | |
| 1 | 10 ISL | 15.71 | 15.71 | 33.185 | 24.418 | 350.5 | 0.035 | 5.83 | 102.8 | 2.0 | 0.35 | 0.0 | 0.00 | 0.09 | 0.02 | 10 | |
| 1 | 17 | 15.69 | 15.69 | 33.195 | 24.430 | 349.5 | 0.060 | 5.84 | 102.9 | 2.0 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 17 | |
| 20 | ISL | 15.75 | 15.75 | 33.220 | 24.436 | 349.1 | 0.070 | 5.83 | 102.9 | 2.0 | 0.35 | 0.0 | 0.00 | 0.08 | 0.02 | 20 | |
| 30 | ISL | 15.92 | 15.92 | 33.298 | 24.458 | 347.3 | 0.105 | 5.81 | 102.9 | 1.9 | 0.33 | 0.0 | 0.00 | 0.08 | 0.01 | 30 | |
| 1 | 32 | 15.95 | 15.94 | 33.313 | 24.463 | 346.9 | 0.112 | 5.81 | 103.0 | 1.9 | 0.33 | 0.0 | 0.00 | 0.08 | 0.01 | 32 | |
| 1 | 42 | 15.82 | 15.81 | 33.311 | 24.491 | 344.5 | 0.146 | 5.83 | 103.1 | 1.8 | 0.33 | 0.0 | 0.00 | 0.11 | 0.02 | 42 | |
| 50 | ISL | 14.83 | 14.82 | 33.233 | 24.649 | 329.7 | 0.173 | 5.96 | 103.3 | 1.9 | 0.35 | 0.0 | 0.00 | 0.14 | 0.04 | 50 | |
| 1 | 52 | 14.60 | 14.59 | 33.128U | | 0.180 | 5.99 | 103.3 | 1.9 | 0.36 | 0.0 | 0.00 | 0.15 | 0.05 | 52 | | |
| 1 | 62 | 14.79 | 14.78 | 33.156 | 24.598 | 334.9 | 0.213 | 5.95 | 103.0 | 1.9 | 0.35 | 0.0 | 0.00 | 0.18 | 0.10 | 62 | |
| 1 | 71 | 14.70 | 14.69 | 33.232 | 24.677 | 327.7 | 0.243 | 5.93 | 102.5 | 2.0 | 0.34 | 0.0 | 0.00 | 0.25 | 0.13 | 72 | |
| 75 | ISL | 14.62 | 14.61 | 33.259 | 24.715 | 324.2 | 0.256 | 5.89 | 101.6 | 2.0 | 0.35 | 0.1 | 0.03 | 0.29 | 0.16 | 76 | |
| 1 | 80 | 14.53 | 14.52 | 33.302 | 24.767 | 319.3 | 0.272 | 5.82 | 100.3 | 2.2 | 0.38 | 0.2 | 0.07 | 0.34 | 0.20 | 81 | |
| 1 | 94 | 13.03 | 13.02 | 33.194 | 24.991 | 298.1 | 0.315 | 5.70 | 95.1 | 3.7 | 0.54 | 2.6 | 0.07 | 0.29 | 0.22 | 95 | |
| 100 | ISL | 12.55 | 12.54 | 33.196 | 25.086 | 289.1 | 0.333 | 5.52 | 91.2 | 4.8 | 0.65 | 4.5 | 0.05 | 0.23 | 0.19 | 101 | |
| 1 | I10 | 12.13 | 12.12 | 33.275 | 25.228 | 275.8 | 0.361 | 5.25 | 86.0 | 6.1 | 0.78 | 7.0 | 0.02 | 0.13 | 0.13 | H1 | |
| 1 | 125 | 12.70 | 12.68 | 33.606 | 25.376 | 262.3 | 0.401 | 5.23 | 86.9 | 5.1 | 0.61 | 5.5 | 0.04 | 0.15 | 0.14 | 126 | |
| 1 | 149 | 11.75 | 11.73 | 33.728 | 25.652 | 236.5 | 0.461 | 4.84 | 78.9 | 9.4 | 0.85 | 10.0 | 0.02 | 0.07 | 0.07 | 150 | |
| 150 | ISL | 11.67 | 11.65 | 33.726 | 25.665 | 235.2 | 0.464 | 4.82 | 78.4 | 9.7 | 0.87 | 10.3 | 0.02 | 0.07 | 0.07 | 151 | |
| 1 | 174 | 9.79 | 9.77 | 33.692 | 25.969 | 206.3 | 0.517 | 4.26 | 66.5 | 17.0 | 1.35 | 17.9 | 0.01 | 0.01 | 0.04 | 175 | |
| 200 | ISL | 8.89 | 8.87 | 33.842 | 26.232 | 181.6 | 0.567 | 3.94 | 60.3 | 24.3 | 1.59 | 22.1 | 0.00 | 0.00 | 0.02 | 202 | |
| 1 | 203 | 8.84 | 8.82 | 33.862 | 26.256 | 179.4 | 0.572 | 3.92 | 59.9 | 25.0 | 1.60 | 22.4 | 0.00 | 0.00 | 0.02 | 205 | |
| 1 | 233 | 8.37 | 8.35 | 33.953 | 26.400 | 166.1 | 0.624 | 3.72 | 56.3 | 30.3 | 1.72 | 24.4 | 0.00 | | | 235 | |
| 250 | ISL | 8.14 | 8.11 | 33.984 | 26.459 | 160.7 | 0.652 | 3.29 | 49.5 | 34.4 | 1.89 | 26.6 | 0.00 | | | 252 | |
| 1 | 272 | 7.85 | 7.82 | 34.009 | 26.522 | 155.0 | 0.687 | 2.68 | 40.1 | 39.9 | 2.12 | 29.6 | 0.01 | | | 274 | |
| 300 | ISL | 7.45 | 7.42 | 34.021 | 26.589 | 148.8 | 0.729 | 2.27 | 33.7 | 45.9 | 2.30 | 32.1 | 0.01 | | | 302 | |
| 1 | 327 | 7.07 | 7.04 | 34.025 | 26.646 | 143.7 | 0.769 | 2.00 | 29.4 | 51.6 | 2.43 | 34.0 | 0.00 | | | 330 | |
| 1 | 385 | 6.29 | 6.26 | 34.056 | 26.774 | 131.8 | 0.849 | 1.39 | 20.1 | 64.8 | 2.72 | 37.9 | 0.00 | | | 388 | |
| 400 | ISL | 6.11 | 6.07 | 34.062 | 26.802 | 129.2 | 0.868 | 1.26 | 18.1 | 67.8 | 2.78 | 38.7 | 0.00 | | | 403 | |
| 1 | 449 | 5.63 | 5.59 | 34.087 | 26.882 | 121.9 | 0.930 | 0.90 | 12.8 | 76.6 | 2.94 | 40.9 | 0.00 | | | 453 | |
| 500 | ISL | 5.36 | 5.32 | 34.127 | 26.946 | 116.1 | 0.990 | 0.67 | 9.5 | 83.8 | 3.05 | 42.3 | 0.00 | | | 504 | |
| 1 | 517 | 5.27 | 5.23 | 34.141 | 26.968 | 114.2 | 1.010 | 0.59 | 8.3 | 86.2 | 3.08 | 42.7 | 0.00 | | | 521 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 IIO

| LATITUDE 31 | LONGITUDE 123 | DAY/MO/YR 08/05/87 | MESSENGER 2026 | BOTTOM 3781 M | WIND 300 10 KT | SPEED 340 03 07 | WAVES 2 | WEATHER | BAROMETER 1016.1 MB | DRY 16.0 C | WET 13.7 C | CLOUD 8/8 | AMT | TYPE | | | |
|----------------|------------------|-----------------------|-------------------|------------------|-------------------|--------------------|------------|----------------|------------------------|---------------|---------------|--------------|-------------|---------------|----------------|----------------|---|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | P04 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAEAO UG/L | PRESS D.BAR | I |
| 1 | 0 ISL | 16.33 | 16.33 | 33.379 | 24.427 | 349.3 | 0.000 | 5.78 | 103.2 | 1.2 | 0.31 | 0.0 | 0.00 | 0.08 | 0.01 | 0 | |
| 1 | 1 | 16.33 | 16.33 | 33.379 | 24.427 | 349.4 | 0.003 | 5.78 | 103.2 | 1.2 | 0.31 | 0.0 | 0.00 | 0.08 | 0.01 | 1 | |
| 10 | ISL | 16.30 | 16.30 | 33.375 | 24.431 | 349.3 | 0.035 | 5.77 | 103.0 | 1.2 | 0.31 | 0.0 | 0.00 | 0.09 | 0.02 | 10 | |
| 1 | 16 | 16.29 | 16.29 | 33.377 | 24.435 | 349.1 | 0.056 | 5.77 | 103.0 | 1.2 | 0.31 | 0.0 | 0.00 | 0.09 | 0.02 | 16 | |
| 20 | ISL | 16.31 | 16.31 | 33.388 | 24.439 | 348.8 | 0.070 | 5.77 | 103.0 | 1.2 | 0.30 | 0.0 | 0.00 | 0.09 | 0.02 | 20 | |
| 1 | 30 | 16.35 | 16.35 | 33.415 | 24.451 | 348.0 | 0.105 | 5.77 | 103.1 | 1.1 | 0.29 | 0.0 | 0.00 | 0.09 | 0.01 | 30 | |
| 1 | 41 | 16.31 | 16.30 | 33.410 | 24.457 | 347.9 | 0.143 | 5.78 | 103.2 | | | | | 0.10 | 0.02 | 41 | |
| 50 | ISL | 16.10 | 16.09 | 33.392 | 24.491 | 344.8 | 0.174 | 5.80 | 103.1 | 1.6 | 0.29 | 0.0 | 0.00 | 0.12 | 0.03 | 50 | |
| 1 | 51 | 16.06 | 16.05 | 33.390 | 24.499 | 344.2 | 0.178 | 5.80 | 103.1 | | | | | 0.12 | 0.03 | 51 | |
| 1 | 62 | 15.25 | 15.24 | 33.383 | 24.674 | 327.8 | 0.215 | 5.94 | 103.9 | | | | | 0.14 | 0.04 | 62 | |
| 1 | 72 | 15.79 | 15.78 | 33.595 | 24.718 | 323.9 | 0.247 | 5.81 | 102.8 | 2.3 | 0.29 | 0.1 | 0.00 | 0.16 | 0.05 | 73 | |
| 75 | ISL | 15.60 | 15.59 | 33.587 | 24.754 | 320.5 | 0.257 | 5.80 | 102.2 | 2.3 | 0.30 | 0.1 | 0.02 | 0.18 | 0.07 | 76 | |
| 1 | 80 | 15.19 | 15.18 | 33.555 | 24.820 | 314.4 | 0.273 | 5.78 | 101.0 | 2.4 | 0.31 | 0.2 | 0.05 | 0.23 | 0.10 | 81 | |
| 1 | 95 | 14.84 | 14.83 | 33.657 | 24.975 | 300.0 | 0.319 | 5.65 | 98.1 | 2.7 | 0.32 | 0.3 | 0.04 | 0.29 | 0.18 | 96 | |
| 100 | ISL | 14.17 | 14.16 | 33.536 | 25.024 | 295.4 | 0.334 | 5.61 | 96.1 | 3.3 | 0.40 | 1.4 | 0.04 | 0.27 | 0.17 | 101 | |
| 1 | I10 | 12.76 | 12.75 | 33.300 | 25.127 | 285.6 | 0.363 | 5.50 | 91.3 | 4.7 | 0.60 | 4.2 | 0.04 | 0.21 | 0.13 | 111 | |
| 1 | 125 | 12.00 | 11.98 | 33.354 | 25.314 | 268.0 | 0.404 | 5.23 | 85.5 | 6.5 | 0.77 | 7.2 | 0.02 | 0.15 | 0.14 | 126 | |
| 1 | 150 | 10.63 | 10.61 | 33.468 | 25.651 | 236.2 | 0.467 | 4.44 | 70.5 | 13.8 | 1.25 | 15.4 | 0.01 | 0.03 | 0.05 | 151 | |
| 1 | 174 | 9.77 | 9.75 | 33.700 | 25.979 | 205.4 | 0.520 | 3.61 | 56.3 | 21.1 | 1.61 | 21.3 | 0.00 | 0.01 | 0.03 | 175 | |
| 200 | ISL | 8.88 | 8.86 | 33.839 | 26.231 | 181.7 | 0.571 | 3.63 | 55.6 | 25.8 | 1.70 | 23.6 | 0.00 | 0.00 | 0.03 | 202 | |
| 1 | 203 | 8.79 | 8.77 | 33.851 | 26.255 | 179.4 | 0.576 | 3.63 | 55.4 | 26.3 | 1.71 | 23.8 | 0.00 | 0.00 | 0.03 | 205 | |
| 1 | 230 | 8.42 | 8.40 | 33.985 | 26.417 | 164.4 | 0.622 | 2.96 | 44.9 | 33.8 | 1.97 | 27.4 | 0.00 | | | 232 | |
| 250 | ISL | 8.04 | 8.01 | 34.005 | 26.490 | 157.7 | 0.655 | 3.03 | 45.5 | 36.7 | 1.97 | 27.8 | 0.00 | | | 252 | |
| 1 | 270 | 7.64 | 7.61 | 33.998 | 26.543 | 152.7 | 0.686 | 3.19 | 47.5 | 39.0 | 1.98 | 28.2 | 0.00 | | | 272 | |
| 300 | ISL | 7.19 | 7.16 | 34.005 | 26.613 | 146.4 | 0.730 | 2.83 | 41.7 | 44.9 | 2.14 | 30.5 | 0.00 | | | 302 | |
| 1 | 325 | 6.88 | 6.85 | 34.012 | 26.661 | 142.0 | 0.767 | 2.40 | 35.1 | 50.3 | 2.31 | 32.8 | 0.00 | | | 328 | |
| 1 | 383 | 6.27 | 6.24 | 34.040 | 26.764 | 132.7 | 0.846 | 1.72 | 24.8 | 61.4 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 28

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 29.1 N | 117 46.1 W | 06/05/87 | 1240 GMT | 69 M | 180 | 03 KT | 290 | 1 6 2 | 1013.8 MB | 17.2 C | 15.0 C | 8/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 18.69 | 18.69 | 33.496 | 23.951 | 394.7 | 0.000 | 6.15 | 114.9 | 2.7 | 0.22 | 0.0 | 0.00 | 0.67 | 0.07 | 0 |
| 1 | 1 | 18.69 | 18.69 | 33.496 | 23.951 | 394.7 | 0.004 | 6.15 | 114.9 | 2.7 | 0.22 | 0.0 | 0.00 | 0.67 | 0.07 | 1 |
| 1 | 10 ISL | 16.53 | 16.53 | 33.478 | 24.457 | 346.8 | 0.037 | 6.58 | 118.1 | 2.3 | 0.27 | 0.0 | 0.00 | 0.88 | 0.19 | 10 |
| 1 | 11 | 16.19 | 16.19 | 33.479 | 24.536 | 339.3 | 0.041 | 6.63 | 118.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.91 | 0.21 | 11 |
| 1 | 20 ISL | 14.32 | 14.32 | 33.467 | 24.937 | 301.3 | 0.070 | 6.44 | 110.6 | 2.8 | 0.31 | 0.0 | 0.00 | 1.13 | 0.22 | 20 |
| 1 | 21 | 14.15 | 14.15 | 33.466 | 24.972 | 298.0 | 0.073 | 6.42 | 109.9 | 2.9 | 0.31 | 0.0 | 0.00 | 1.15 | 0.22 | 21 |
| 1 | 30 ISL | 13.13 | 13.13 | 33.478 | 25.189 | 277.5 | 0.098 | 5.84 | 97.9 | 5.6 | 0.46 | 0.1 | 0.02 | 3.27 | 0.84 | 30 |
| 1 | 32 | 12.96 | 12.96 | 33.481 | 25.225 | 274.2 | 0.104 | 5.67 | 94.7 | 6.4 | 0.52 | 0.1 | 0.02 | 3.61 | 0.95 | 32 |
| 1 | 42 | 12.11 | 12.10 | 33.498 | 25.403 | 257.5 | 0.131 | 4.61 | 75.6 | 10.0 | 1.06 | 9.5 | 0.54 | 1.31 | 0.47 | 42 |
| 1 | 50 ISL | 11.44 | 11.43 | 33.544 | 25.564 | 242.3 | 0.151 | 3.84 | 62.1 | 14.8 | 1.47 | 14.6 | 0.55 | 0.46 | 0.32 | 50 |
| 1 | 52 | 11.27 | 11.26 | 33.563 | 25.610 | 238.0 | 0.155 | 3.69 | 59.5 | 16.0 | 1.55 | 15.6 | 0.55 | 0.35 | 0.30 | 52 |
| 1 | 61 | 10.43 | 10.42 | 33.711 | 25.874 | 213.1 | 0.176 | 3.38 | 53.5 | 20.1 | 1.57 | 19.6 | 0.13 | 0.09 | 0.21 | 61 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 30

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 25.1 N | 117 54.4 W | 06/05/87 | 1026 GMT | 631 M | 140 | 06 KT | | | 1014.0 MB | 16.4 C | 15.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 18.56 | 18.56 | 33.534 | 24.012 | 388.8 | 0.000 | 5.72 | 106.7 | 1.4 | 0.22 | 0.0 | 0.00 | 0.20 | 0.03 | 0 |
| 1 | 10 | 17.60 | 17.60 | 33.496 | 24.219 | 369.5 | 0.038 | 5.89 | 107.9 | 1.5 | 0.25 | 0.0 | 0.00 | 0.15 | 0.02 | 10 |
| 1 | 20 ISL | 15.98 | 15.98 | 33.457 | 24.567 | 336.6 | 0.073 | 6.24 | 110.8 | 2.4 | 0.26 | 0.0 | 0.00 | 0.18 | 0.04 | 20 |
| 1 | 21 | 15.78 | 15.78 | 33.455 | 24.610 | 332.5 | 0.077 | 6.27 | 110.8 | 2.6 | 0.26 | 0.0 | 0.00 | 0.18 | 0.04 | 21 |
| 1 | 30 ISL | 15.58 | 15.58 | 33.472 | 25.094 | 286.6 | 0.104 | 6.24 | 105.5 | 5.5 | 0.40 | 0.9 | 0.07 | 0.43 | 0.09 | 30 |
| 1 | 31 | 13.35 | 13.35 | 33.477 | 25.145 | 281.9 | 0.107 | 6.24 | 105.0 | 5.9 | 0.43 | 1.0 | 0.09 | 0.46 | 0.10 | 31 |
| 1 | 40 | 12.40 | 12.39 | 33.494 | 25.345 | 263.0 | 0.132 | 4.98 | 82.2 | 8.9 | 0.87 | 8.1 | 0.40 | 0.47 | 0.20 | 40 |
| 1 | 50 | 11.35 | 11.34 | 33.544 | 25.580 | 240.8 | 0.157 | 4.43 | 71.5 | 12.8 | 1.16 | 13.7 | 0.02 | 0.38 | 0.23 | 50 |
| 1 | 61 | 11.07 | 11.06 | 33.569 | 25.650 | 234.3 | 0.183 | 4.23 | 67.9 | 14.2 | 1.24 | 15.2 | 0.02 | 0.24 | 0.29 | 61 |
| 1 | 70 | 10.73 | 10.72 | 33.612 | 25.744 | 225.6 | 0.204 | 4.02 | 64.0 | 16.0 | 1.35 | 16.8 | 0.01 | 0.14 | 0.15 | 71 |
| 1 | 75 ISL | 10.61 | 10.60 | 33.635 | 25.783 | 222.0 | 0.215 | 3.93 | 62.5 | 16.8 | 1.39 | 17.5 | 0.01 | 0.11 | 0.12 | 76 |
| 1 | 84 | 10.42 | 10.41 | 33.676 | 25.848 | 216.0 | 0.235 | 3.80 | 60.1 | 18.1 | 1.45 | 18.6 | 0.01 | 0.07 | 0.09 | 85 |
| 1 | 98 | 10.06 | 10.05 | 33.741 | 25.961 | 205.6 | 0.264 | 3.65 | 57.3 | 20.2 | 1.54 | 20.1 | 0.01 | 0.03 | 0.06 | 99 |
| 1 | 100 ISL | 10.00 | 9.99 | 33.751 | 25.979 | 203.9 | 0.268 | 3.62 | 56.8 | 20.6 | 1.56 | 20.4 | 0.01 | 0.03 | 0.06 | 101 |
| 1 | 118 | 9.56 | 9.55 | 33.838 | 26.120 | 190.7 | 0.304 | 3.34 | 51.9 | 24.6 | 1.71 | 22.8 | 0.01 | 0.01 | 0.04 | 119 |
| 1 | 125 ISL | 9.46 | 9.45 | 33.863 | 26.156 | 187.4 | 0.317 | 3.27 | 50.7 | 25.7 | 1.75 | 23.4 | 0.01 | 0.01 | 0.04 | 126 |
| 1 | 143 | 9.25 | 9.23 | 33.914 | 26.230 | 180.7 | 0.350 | 3.10 | 47.9 | 28.2 | 1.83 | 24.6 | 0.01 | 0.01 | 0.05 | 144 |
| 1 | 150 ISL | 9.16 | 9.14 | 33.932 | 26.259 | 178.1 | 0.363 | 3.02 | 46.5 | 29.3 | 1.87 | 25.2 | 0.01 | 0.01 | 0.05 | 151 |
| 1 | 172 | 8.90 | 8.88 | 33.987 | 26.344 | 170.5 | 0.401 | 2.73 | 41.8 | 32.8 | 1.99 | 26.9 | 0.01 | 0.00 | 0.04 | 173 |
| 1 | 200 ISL | 8.60 | 8.58 | 34.063 | 26.450 | 160.8 | 0.447 | 2.30 | 35.0 | 37.3 | 2.17 | 28.9 | 0.01 | 0.01 | 0.05 | 202 |
| 1 | 201 | 8.59 | 8.57 | 34.066 | 26.454 | 160.4 | 0.449 | 2.28 | 34.7 | 37.5 | 2.18 | 29.0 | 0.01 | 0.01 | 0.05 | 203 |
| 1 | 231 | 8.29 | 8.27 | 34.122 | 26.545 | 152.3 | 0.496 | 1.91 | 28.9 | 42.1 | 2.35 | 31.0 | 0.01 | | 0.01 | 233 |
| 1 | 250 ISL | 8.11 | 8.08 | 34.147 | 26.592 | 148.2 | 0.525 | 1.69 | 25.5 | 45.1 | 2.44 | 32.0 | 0.01 | | 0.01 | 252 |
| 1 | 270 | 7.94 | 7.91 | 34.169 | 26.634 | 144.4 | 0.554 | 1.48 | 22.2 | 48.2 | 2.53 | 32.8 | 0.00 | | | 272 |
| 1 | 300 ISL | 7.75 | 7.72 | 34.200 | 26.687 | 139.9 | 0.596 | 1.24 | 18.5 | 52.0 | 2.63 | 33.9 | 0.00 | | | 302 |
| 1 | 322 | 7.62 | 7.59 | 34.218 | 26.720 | 137.0 | 0.627 | 1.09 | 16.2 | 54.6 | 2.69 | 34.7 | 0.00 | | | 325 |
| 1 | 381 | 7.14 | 7.10 | 34.247 | 26.811 | 129.0 | 0.705 | 0.74 | 10.9 | 61.8 | 2.85 | 36.7 | 0.00 | | | 384 |
| 1 | 400 ISL | 6.97 | 6.93 | 34.254 | 26.841 | 126.4 | 0.730 | 0.65 | 9.5 | 64.6 | 2.90 | 37.4 | 0.00 | | | 403 |
| 1 | 446 | 6.61 | 6.57 | 34.274 | 26.905 | 120.7 | 0.786 | 0.48 | 7.0 | 71.0 | 3.00 | 38.8 | 0.00 | | | 450 |
| 1 | 500 ISL | 6.35 | 6.30 | 34.302 | 26.962 | 115.8 | 0.850 | 0.36 | 5.2 | 75.8 | 3.09 | 39.6 | 0.01 | | | 504 |
| 1 | 514 | 6.28 | 6.23 | 34.309 | 26.977 | 114.6 | 0.866 | 0.33 | 4.8 | 77.1 | 3.11 | 39.8 | 0.01 | | | 518 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 33

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|-----------|-----------|-----------|-----------|----------|--------|--------|--------|---------|-----------|--------|--------|-------|-------|-----------|-----------|
| 33 19.1 N | 118 6.6 W | 06/05/87 | 0816 GMT | 779 M | 090 | 08 KT | | | 1014.5 MB | 17.1 C | 16.0 C | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 18.51 | 18.51 | 33.522 | 24.016 | 388.5 | 0.000 | 5.75 | 107.1 | 1.8 | 0.25 | 0.0 | 0.00 | 0.16 | 0.02 0 |
| 1 | 1 | 18.51 | 18.51 | 33.522 | 24.016 | 388.6 | 0.004 | 5.75 | 107.1 | 1.8 | 0.25 | 0.0 | 0.00 | 0.16 | 0.02 1 |
| 1 | 10 | 18.39 | 18.39 | 33.522 | 24.046 | 386.0 | 0.039 | 5.79 | 107.6 | 1.7 | 0.25 | 0.0 | 0.00 | 0.17 | 0.02 10 |
| 1 | 20 | ISL | 14.61 | 14.61 | 33.449 | 24.862 | 308.6 | 0.073 | 6.38 | 110.2 | 3.2 | 0.31 | 0.0 | 0.00 | 0.19 0.05 |
| 1 | 21 | 14.21 | 14.21 | 33.450 | 24.947 | 300.4 | 0.077 | 6.43 | 110.2 | 3.4 | 0.32 | 0.0 | 0.00 | 0.19 0.05 | |
| 1 | 30 | 13.47 | 13.47 | 33.422 | 25.078 | 288.2 | 0.103 | 6.22 | 104.9 | 4.2 | 0.44 | 1.0 | 0.09 | 0.65 0.17 | |
| 1 | 40 | 12.61 | 12.60 | 33.494 | 25.304 | 266.9 | 0.131 | 5.42 | 89.9 | 6.8 | 0.72 | 5.7 | 0.75 | 0.77 0.27 | |
| 1 | 50 | ISL | 11.81 | 11.80 | 33.528 | 25.483 | 250.0 | 0.157 | 4.77 | 77.8 | 9.9 | 0.94 | 9.8 | 0.19 | 0.82 0.35 |
| 1 | 51 | 11.74 | 11.73 | 33.531 | 25.499 | 248.6 | 0.159 | 4.71 | 76.7 | 10.2 | 0.96 | 10.2 | 0.11 | 0.82 0.35 | |
| 1 | 61 | 11.35 | 11.34 | | | | 0.183 | | | | | | | | 51 61 |
| 1 | 70 | 10.64 | 10.63 | 33.662 | 25.799 | 220.4 | 0.204 | 3.69 | 58.7 | 18.6 | | 18.4 | 0.01 | 0.13 0.18 | |
| 75 | ISL | 10.42 | 10.41 | 33.688 | 25.858 | 214.9 | 0.215 | 3.58 | 56.7 | 19.9 | 1.45 | 19.4 | 0.01 | 0.10 0.15 | |
| 1 | 84 | 10.18 | 10.17 | 33.730 | 25.932 | 208.0 | 0.234 | 3.46 | 54.5 | 21.6 | 1.59 | 20.5 | 0.01 | 0.05 0.10 | |
| 1 | 99 | 9.83 | 9.82 | 33.792 | 26.039 | 198.1 | 0.264 | 3.24 | 50.7 | 24.1 | 1.70 | 22.4 | 0.01 | 0.02 0.08 | |
| 100 | ISL | 9.81 | 9.80 | 33.796 | 26.046 | 197.5 | 0.266 | 3.23 | 50.5 | 24.2 | 1.70 | 22.5 | 0.01 | 0.02 0.08 | |
| 1 | 113 | 9.63 | 9.62 | 33.845 | 26.114 | 191.2 | 0.292 | 3.12 | 48.6 | 25.3 | 1.76 | 23.5 | 0.01 | 0.01 0.06 | |
| 125 | ISL | 9.41 | 9.40 | 33.885 | 26.182 | 185.0 | 0.314 | 3.02 | 46.8 | 27.0 | 1.82 | 24.5 | 0.01 | 0.01 0.05 | |
| 1 | 135 | 9.22 | 9.21 | 33.916 | 26.237 | 180.0 | 0.332 | 2.94 | 45.4 | 28.6 | 1.87 | 25.3 | 0.01 | 0.01 0.05 | |
| 150 | ISL | 9.00 | 8.98 | 33.963 | 26.309 | 173.4 | 0.359 | 2.80 | 43.0 | 31.1 | 1.94 | 26.4 | 0.01 | 0.01 0.04 | |
| 1 | 158 | 8.90 | 8.88 | 33.986 | 26.343 | 170.3 | 0.373 | 2.71 | 41.5 | 32.4 | 1.98 | 27.0 | 0.01 | 0.01 0.04 | |
| 1 | 188 | 8.57 | 8.55 | 34.057 | 26.450 | 160.6 | 0.422 | 2.32 | 35.3 | 37.1 | 2.13 | 28.8 | 0.01 | 0.01 0.03 | |
| 200 | ISL | 8.44 | 8.42 | 34.074 | 26.484 | 157.6 | 0.441 | 2.23 | 33.8 | 39.0 | 2.19 | 29.5 | 0.01 | 0.01 0.02 | |
| 216 | | 8.29 | 8.27 | 34.093 | 26.521 | 154.2 | 0.466 | 2.12 | 32.1 | 41.2 | 2.26 | 30.3 | 0.01 | 0.01 0.01 | |
| 246 | | 8.23 | 8.20 | 34.142 | 26.570 | 150.2 | 0.512 | 1.76 | 26.6 | 44.0 | 2.38 | 31.4 | 0.00 | 0.00 0.00 | |
| 250 | ISL | 8.22 | 8.19 | 34.152 | 26.579 | 149.4 | 0.518 | 1.70 | 25.7 | 44.5 | 2.40 | 31.6 | 0.00 | 0.00 0.00 | |
| 286 | | 8.00 | 7.97 | 34.228 | 26.672 | 141.2 | 0.570 | 1.19 | 17.9 | 50.0 | 2.60 | 33.3 | 0.01 | 0.01 0.01 | |
| 300 | ISL | 7.77 | 7.74 | 34.235 | 26.711 | 137.6 | 0.590 | 1.06 | 15.9 | 52.9 | 2.67 | 34.2 | 0.01 | 0.01 0.02 | |
| 340 | | 7.10 | 7.07 | 34.238 | 26.809 | 128.5 | 0.643 | 0.80 | 11.8 | 60.9 | 2.83 | 36.7 | 0.00 | 0.00 0.00 | |
| 398 | | 6.80 | 6.76 | 34.261 | 26.869 | 123.5 | 0.716 | 0.57 | 8.3 | 66.4 | 2.94 | 38.1 | 0.00 | 0.00 0.01 | |
| 400 | ISL | 6.79 | 6.75 | 34.262 | 26.871 | 123.3 | 0.719 | 0.56 | 8.2 | 66.6 | 2.94 | 38.1 | 0.00 | 0.00 0.03 | |
| 462 | | 6.42 | 6.38 | 34.291 | 26.944 | 117.0 | 0.793 | 0.40 | 5.8 | 73.5 | 3.04 | 39.5 | 0.00 | 0.00 0.00 | |
| 500 | ISL | 6.26 | 6.22 | 34.306 | 26.977 | 114.3 | 0.837 | 0.34 | 4.9 | 76.1 | 3.07 | 40.1 | 0.00 | 0.00 0.04 | |
| 531 | | 6.15 | 6.10 | 34.318 | 27.001 | 112.4 | 0.872 | 0.30 | 4.3 | 78.1 | 3.09 | 40.5 | 0.00 | 0.00 0.03 | |
| 594 | | 5.89 | 5.84 | 34.342 | 27.053 | 108.0 | 0.942 | 0.22 | 3.1 | 83.5 | 3.17 | 40.9 | 0.00 | 0.00 0.00 | |
| 600 | ISL | 5.85 | 5.80 | 34.344 | 27.060 | 107.4 | 0.948 | 0.21 | 3.0 | 84.3 | 3.18 | 40.9 | 0.00 | 0.00 0.05 | |
| 654 | | 5.47 | 5.41 | 34.371 | 27.128 | 101.1 | 1.004 | 0.18 | 2.6 | 92.7 | 3.24 | 41.1 | 0.01 | 0.01 0.00 | |
| 700 | ISL | 5.10 | 5.04 | 34.399 | 27.194 | 95.0 | 1.050 | 0.22 | 3.1 | 100.0 | 3.26 | 42.8 | 0.01 | 0.01 0.01 | |
| 703 | | 5.08 | 5.02 | 34.401 | 27.198 | 94.6 | 1.052 | 0.22 | 3.1 | 100.4 | 3.26 | 42.9 | 0.01 | 0.01 0.01 | |
| 737 | | 5.01 | 4.95 | 34.404 | 27.208 | 93.8 | 1.084 | 0.24 | 3.4 | 102.4 | 3.26 | 43.1 | 0.02 | 0.00 0.00 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|----------|--------|-------|-------|-------|----------|
| 33 15.1 N | 118 15.0 W | 06/05/87 | 0432 GMT | 391 M | 240 | 11 KT | | | 1013.9 MB | 17.4 C | 15.9 C | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | DEG C | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 18.67 | 18.67 | 33.533 | 23.984 | 391.5 | 0.000 | 5.74 | 107.2 | 2.2 | 0.24 | 0.0 | 0.00 | 0.17 | 0.03 0 |
| 10 | | 17.25 | 17.25 | 33.507 | 24.311 | 360.7 | 0.038 | 5.99 | 109.0 | 1.5 | 0.24 | 0.0 | 0.00 | 0.16 | 0.03 10 |
| 20 | | 14.25 | 14.25 | 33.457 | 24.944 | 300.7 | 0.071 | 6.35 | 108.9 | 2.8 | 0.30 | 0.0 | 0.00 | 0.19 | 0.04 20 |
| 30 | | 13.02 | 13.02 | 33.488 | 25.219 | 274.7 | 0.099 | 5.82 | 97.3 | 5.9 | 0.55 | 3.1 | 0.31 | 0.63 | 0.17 30 |
| 40 | | 12.23 | 12.22 | 33.503 | 25.384 | 259.2 | 0.126 | 4.83 | 79.4 | 8.9 | 0.91 | 8.8 | 0.42 | 0.69 | 0.25 40 |
| 50 | | 11.64 | 11.63 | 33.546 | 25.529 | 245.7 | 0.151 | 4.37 | 71.0 | 12.2 | 1.13 | 12.8 | 0.10 | 0.70 | 0.27 50 |
| 61 | | 11.12 | 11.11 | 33.598 | 25.664 | 233.1 | 0.178 | 4.12 | 66.2 | 14.6 | 1.28 | 15.5 | 0.03 | 0.42 | 0.22 61 |
| 69 | | 10.79 | 10.78 | 33.640 | 25.756 | 224.5 | 0.196 | 3.84 | 61.3 | 16.3 | 1.40 | 17.1 | 0.02 | 0.29 | 0.21 70 |
| 75 | ISL | 10.54 | 10.53 | 33.685 | 25.834 | 217.1 | 0.209 | 3.65 | 57.9 | 18.6 | 1.49 | 18.6 | 0.01 | 0.18 | 0.15 76 |
| 79 | | 10.39 | 10.38 | 33.715 | 25.884 | 212.5 | 0.218 | 3.54 | 56.0 | 20.1 | 1.55 | 19.6 | 0.01 | 0.11 | 0.11 80 |
| 88 | | 10.11 | 10.10 | 33.761 | 25.968 | 204.7 | 0.237 | 3.36 | 52.8 | 21.5 | 1.63 | 21.0 | 0.01 | 0.05 | 0.14 89 |
| 100 | ISL | 9.85 | 9.84 | 33.810 | 26.050 | 197.1 | 0.261 | 3.23 | 50.5 | 23.5 | 1.71 | 22.3 | 0.01 | 0.03 | 0.10 101 |
| 104 | | 9.78 | 9.77 | 33.825 | 26.073 | 194.9 | 0.269 | 3.19 | 49.8 | 24.2 | 1.73 | 22.7 | 0.01 | 0.03 | 0.08 105 |
| 119 | | 9.48 | 9.47 | 33.880 | 26.166 | 186.4 | 0.297 | 2.99 | 46.4 | 27.2 | 1.86 | 24.3 | 0.01 | 0.02 | 0.07 120 |
| 125 | ISL | 9.39 | 9.38 | 33.901 | 26.198 | 183.5 | 0.308 | 2.92 | 45.2 | 28.2 | 1.90 | 24.9 | 0.01 | 0.02 | 0.07 126 |
| 139 | | 9.20 | 9.18 | 33.946 | 26.263 | 177.5 | 0.334 | 2.77 | 42.7 | 30.3 | 1.96 | 26.0 | 0.01 | 0.02 | 0.07 140 |
| 150 | ISL | 9.04 | 9.02 | 33.977 | 26.313 | 173.0 | 0.353 | 2.67 | 41.1 | 32.2 | 2.01 | 26.7 | 0.01 | 0.02 | 0.07 151 |
| 162 | | 8.87 | 8.85 | 34.010 | 26.366 | 168.1 | 0.373 | 2.55 | 39.1 | 34.4 | 2.06 | 27.5 | 0.01 | 0.02 | 0.06 163 |
| 193 | | 8.45 | 8.43 | 34.101 | 26.503 | 155.6 | 0.423 | 2.03 | 30.8 | 40.3 | 2.29 | 30.1 | 0.01 | | 195 |
| 200 | ISL | 8.37 | 8.35 | 34.117 | 26.528 | 153.4 | 0.434 | 1.92 | 29.1 | 41.6 | 2.34 | 30.6 | 0.01 | | 202 |
| 221 | | 8.13 | 8.13 | 34.153 | 26.590 | 147.8 | 0.466 | 1.66 | 25.0 | 45.2 | 2.45 | 31.7 | 0.01 | | 223 |
| 250 | | 7.95 | 7.92 | 34.175 | 26.637 | 143.8 | 0.508 | 1.47 | 22.1 | 48.6 | 2.54 | 32.8 | 0.01 | | 252 |
| 285 | | 7.75 | 7.72 | 34.193 | 26.681 | 140.1 | 0.558 | 1.28 | 19.1 | 51.6</td | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 37

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|--------|-------|-------|
| 33 11.2 N | 118 23.2 W | 06/05/87 | 0045 GMT | 1204 M | 280 | 14 KT | 270 | 3 04 | 1012.1 MB | 19.8 C | 17.0 C | 1/8 | CI | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | D.BAR |
| | M DEG C | | DEG C | | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | | |
| 2 | 0 | 18.38 | 18.38 | 33.511 | 24.040 | 386.2 | 0.000 | | 5.78 | 107.4 | 1.9 | 0.25 | 0.0 | 0.00 | 0.24 | 0.03 | 0 | |
| 1 | 10 | 18.02 | 18.02 | 33.516 | 24.132 | 377.8 | 0.038 | | 5.81 | 107.2 | 1.8 | 0.25 | 0.0 | 0.00 | 0.24 | 0.03 | 10 | |
| 1 | 19 | 15.39 | 15.39 | 33.479 | 24.716 | 322.4 | 0.070 | | 6.48 | 113.7 | 2.3 | 0.25 | 0.0 | 0.00 | 0.46 | 0.07 | 19 | |
| | 20 ISL | 15.15 | 15.15 | 33.478 | 24.767 | 317.5 | 0.073 | | 6.46 | 112.8 | 2.5 | 0.26 | 0.0 | 0.00 | 0.60 | 0.10 | 20 | |
| 1 | 30 | 13.32 | 13.32 | 33.484 | 25.156 | 280.7 | 0.103 | | 6.22 | 104.7 | 5.4 | 0.41 | 0.1 | 0.03 | 1.89 | 0.44 | 30 | |
| 1 | 40 | 12.60 | 12.59 | 33.494 | 25.306 | 266.7 | 0.130 | | 5.21 | 86.4 | 7.7 | 0.77 | 5.9 | 0.82 | 1.48 | 0.48 | 40 | |
| 1 | 49 | 11.81 | 11.80 | 33.530 | 25.485 | 249.9 | 0.153 | | 4.32 | 70.4 | 11.1 | 1.11 | 12.2 | 0.07 | 0.46 | 0.28 | 49 | |
| | 50 ISL | 11.75 | 11.74 | 33.534 | 25.499 | 248.5 | 0.156 | | 4.27 | 69.5 | 11.4 | 1.13 | 12.6 | 0.07 | 0.44 | 0.27 | 50 | |
| 1 | 60 | 11.28 | 11.27 | 33.581 | 25.622 | 237.1 | 0.180 | | 4.01 | 64.6 | 14.0 | 1.27 | 15.2 | 0.02 | 0.21 | 0.17 | 60 | |
| 2 | 70 | 10.77 | 10.76 | 33.648 | 25.765 | 223.6 | 0.203 | | 3.74 | 59.6 | 16.3 | 1.40 | 17.5 | 0.03 | 0.13 | 0.14 | 71 | |
| | 75 ISL | 10.55 | 10.54 | 33.672 | 25.823 | 218.2 | 0.214 | | 3.65 | 57.9 | 17.7 | 1.46 | 18.5 | 0.03 | 0.09 | 0.12 | 76 | |
| 1 | 83 | 10.26 | 10.25 | 33.706 | 25.899 | 211.1 | 0.231 | | 3.53 | 55.7 | 20.0 | 1.55 | 19.9 | 0.02 | 0.04 | 0.10 | 84 | |
| 1 | 99 | 9.92 | 9.91 | 33.791 | 26.024 | 199.6 | 0.264 | | 3.23 | 50.6 | 23.2 | 1.71 | 22.2 | 0.02 | 0.02 | 0.08 | 100 | |
| | 100 ISL | 9.90 | 9.89 | 33.795 | 26.030 | 199.0 | 0.266 | | 3.22 | 50.4 | 23.4 | 1.72 | 22.3 | 0.02 | 0.02 | 0.08 | 101 | |
| 1 | 118 | 9.53 | 9.52 | 33.866 | 26.147 | 188.2 | 0.301 | | 2.99 | 46.5 | 26.8 | 1.84 | 24.3 | 0.01 | 0.01 | 0.07 | 119 | |
| | 125 ISL | 9.38 | 9.37 | 33.898 | 26.197 | 183.6 | 0.314 | | 2.85 | 44.1 | 28.7 | 1.91 | 25.3 | 0.01 | 0.01 | 0.07 | 126 | |
| 2 | 143 | | | 34.013 | | | | | 3.466 | 2.49 | 38.3 | 33.5 | 2.07 | 27.6 | 0.01 | 0.01 | 0.06 | 144 |
| | 150 ISL | 8.905 | 8.889 | 34.003 | 26.355 | 169.0 | 0.358 | | 2.40 | 36.8 | 34.9 | 2.12 | 28.2 | 0.01 | 0.01 | 0.06 | 151 | |
| 1 | 172 | 8.57 | 8.55 | 34.077 | 26.466 | 158.8 | 0.394 | | 2.18 | 33.2 | 38.3 | 2.23 | 29.5 | 0.01 | 0.00 | 0.06 | 173 | |
| | 200 ISL | 8.35 | 8.33 | 34.109 | 26.525 | 153.6 | 0.438 | | 1.98 | 30.0 | 41.0 | 2.31 | 30.6 | 0.01 | 0.00 | 0.05 | 202 | |
| 1 | 202 | 8.34 | 8.32 | 34.110 | 26.527 | 153.5 | 0.441 | | 1.96 | 29.7 | 41.2 | 2.32 | 30.7 | 0.01 | 0.00 | 0.05 | 204 | |
| 1 | 231 | 7.98 | 7.96 | 34.155 | 26.617 | 145.3 | 0.484 | | 1.57 | 23.6 | 46.8 | 2.50 | 32.5 | 0.01 | | | 233 | |
| | 250 ISL | 7.83 | 7.81 | 34.173 | 26.653 | 142.2 | 0.511 | | 1.39 | 20.8 | 49.2 | 2.57 | 33.4 | 0.01 | | | 252 | |
| 1 | 270 | 7.71 | 7.68 | 34.187 | 26.682 | 139.7 | 0.540 | | 1.25 | 18.7 | 51.3 | 2.63 | 34.1 | 0.01 | | | 272 | |
| | 300 ISL | 7.53 | 7.50 | 34.206 | 26.723 | 136.2 | 0.581 | | 1.08 | 16.1 | 54.3 | 2.72 | 35.0 | 0.01 | | | 302 | |
| 1 | 325 | 7.40 | 7.37 | 34.219 | 26.752 | 133.9 | 0.615 | | 0.96 | 14.2 | 56.6 | 2.78 | 35.7 | 0.01 | | | 328 | |
| 1 | 382 | 7.13 | 7.09 | 34.246 | 26.812 | 128.9 | 0.690 | | 0.74 | 10.9 | 61.5 | 2.89 | 36.9 | 0.00 | | | 385 | |
| | 400 ISL | 7.01 | 6.97 | 34.257 | 26.837 | 126.7 | 0.713 | | 0.66 | 9.7 | 63.8 | 2.93 | 37.4 | 0.00 | | | 403 | |
| 1 | 448 | 6.66 | 6.62 | 34.285 | 26.907 | 120.5 | 0.772 | | 0.46 | 6.7 | 70.2 | 3.04 | 38.9 | 0.00 | | | 452 | |
| | 500 ISL | 6.35 | 6.30 | 34.307 | 26.966 | 115.4 | 0.833 | | 0.36 | 5.2 | 75.3 | 3.09 | 39.9 | 0.00 | | | 504 | |
| 1 | 519 | 6.23 | 6.18 | 34.315 | 26.988 | 113.5 | 0.855 | | 0.33 | 4.8 | 77.1 | 3.11 | 40.3 | 0.00 | | | 524 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|--------|-------|-------|
| 32 55.1 N | 118 56.1 W | 05/05/87 | 1952 GMT | 1761 M | 280 | 08 KT | 270 | 3 08 | 1014.0 MB | 18.0 C | 15.8 C | 1/8 | CI | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS | D.BAR |
| | M DEG C | | DEG C | | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | | |
| 1 | 0 | 15.99 | 15.99 | 33.569 | 24.650 | 328.1 | 0.000 | | 6.11 | 108.5 | 6.4 | 0.39 | 1.3 | 0.04 | 0.72 | 0.10 | 0 | |
| 1 | 10 | 15.21 | 15.21 | 33.566 | 24.822 | 312.0 | 0.032 | | 6.20 | 108.5 | 6.4 | 0.39 | 1.4 | 0.04 | 0.87 | 0.16 | 10 | |
| 1 | 20 | 14.60 | 14.60 | 33.565 | 24.953 | 299.8 | 0.063 | | 6.19 | 107.0 | 6.5 | 0.41 | 1.9 | 0.06 | 1.10 | 0.22 | 20 | |
| 1 | 30 | 12.99 | 12.99 | 33.573 | 25.291 | 267.9 | 0.091 | | 5.74 | 96.0 | 8.9 | 0.70 | 6.0 | 0.14 | 1.61 | 0.63 | 30 | |
| 1 | 40 | 11.57 | 11.56 | 33.631 | 25.607 | 238.0 | 0.116 | | 4.71 | 76.4 | 13.4 | 1.15 | 12.8 | 0.50 | 0.86 | 0.49 | 40 | |
| 1 | 49 | 11.08 | 11.07 | 33.649 | 25.711 | 228.4 | 0.137 | | 4.18 | 67.1 | 16.4 | 1.35 | 16.0 | 0.52 | 0.41 | 0.24 | 49 | |
| | 50 ISL | 10.99 | 10.98 | 33.657 | 25.733 | 226.2 | 0.140 | | 4.10 | 65.7 | 16.9 | 1.38 | 16.5 | 0.48 | 0.37 | 0.23 | 50 | |
| 1 | 61 P | 9.96 | 9.95 | 33.770 | 26.000 | 201.0 | 0.163 | | 3.28 | 51.4 | 22.7 | 1.67 | 21.9 | 0.03 | 0.07 | 0.14 | 61 | |
| | 75 ISL | 9.50 | 9.49 | 33.828 | 26.122 | 189.7 | 0.190 | | 3.07 | 47.7 | 25.8 | 1.81 | 23.4 | 0.02 | 0.05 | 0.14 | 76 | |
| 1 | 89 P | 9.34 | 9.33 | 33.866 | 26.177 | 184.6 | 0.217 | | 2.87 | 44.4 | 27.8 | 1.86 | 24.9 | 0.02 | 0.03 | 0.15 | 90 | |
| | 100 ISL | 9.00 | 8.99 | 33.945 | 26.294 | 173.8 | 0.236 | | 2.69 | 41.3 | 31.2 | 1.96 | 26.6 | 0.02 | 0.01 | 0.11 | 101 | |
| 1 | 101 P | 8.97 | 8.96 | 33.952 | 26.304 | 172.8 | 0.238 | | 2.67 | 41.0 | 31.5 | 1.97 | 26.7 | 0.02 | 0.01 | 0.11 | 102 | |
| | 125 ISL | 8.66 | 8.65 | 34.025 | 26.410 | 163.1 | 0.278 | | 2.42 | 36.9 | 35.5 | 2.09 | 28.4 | 0.01 | 0.01 | 0.10 | 126 | |
| 1 | 132 P | 8.63 | 8.62 | 34.034 | 26.422 | 162.2 | 0.290 | | 2.37 | 36.1 | 36.2 | 2.11 | 28.6 | 0.01 | 0.01 | 0.10 | 133 | |
| | 150 ISL | 8.57 | 8.55 | 34.076 | 26.465 | 158.5 | 0.319 | | 2.19 | 33.3 | 38.0 | 2.18 | 29.3 | 0.01 | | | 151 | |
| 1 | 177 P | 8.49 | 8.47 | 34.124 | 26.515 | 154.2 | 0.361 | | 1.93 | 29.3 | 40.5 | 2.28 | 30.2 | 0.02 | | | 178 | |
| | 200 ISL | 8.27 | 8.25 | 34.148 | 26.567 | 149.6 | 0.396 | | 1.72 | 26.0 | 43.4 | 2.37 | 31.2 | 0.02 | | | 202 | |
| 1 | 213 P | 8.13 | 8.11 | 34.158 | 26.596 | 147.0 | 0.415 | | 1.61 | 24.3 | 45.2 | 2.43 | 31.8 | 0.02 | | | 215 | |
| 1 | 247 P | 7.79 | 7.77 | 34.188 | 26.671 | 140.4 | 0.464 | | 1.32 | 19.7 | 50.7 | 2.58 | 33.5 | 0.01 | | | 249 | |
| | 250 ISL | 7.76 | 7.74 | 34.191 | 26.677 | 139.8 | 0.468 | | 1.29 | 19.3 | 51.2 | 2.59 | 33.7 | 0.01 | | | 252 | |
| 1 | 292 P | 7.41 | 7.38 | 34.231 | 26.760 | 132.6 | 0.525 | | 0.93 | 13.8 | 57.5 | 2.76 | 35.6 | 0.01 | | | 294 | |
| | 300 ISL | 7.34 | 7.31 | 34.234 | 26.772 | 131.5 | 0.536 | | 0.89 | 13.2 | 58.5 | 2.78 | 35.9 | 0.01 | | | 302 | |
| 1 | 358 P | 6.87 | 6.84 | 34.252 | 26.852 | 124.5 | 0.610 | | 0.66 | 9.7 | 65.2 | 2.89 | 37.6 | 0.00 | | | 361 | |
| | 400 ISL | 6.67 | 6.63 | 34.271 | 26.894 | 121.0 | 0.662 | | 0.53 | 7.7 | 69.1 | 2.96 | 38.5 | 0.00 | | | 403 | |
| 1 | 428 P | 6.54 | 6.50 | 34.284 | 26.922 | 118.7 | 0.695 | | 0.45 | 6.5 | 71.7 | 3.01 | 39.1 | 0.00 | | | 432 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|--------|--------|---------|-----------|-----------|--------|--------|-------|-------|-------|-----|
| 32 39.1 N | 119 29.0 W | 05/05/87 | 1252 GMT | 1297 M | 300 | 16 KT | 300 | 4 06 | 1 | 1013.0 MB | 15.0 C | 13.7 C | 7/8 | ST | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS | |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.07 | 15.07 | 33.314 | 24.658 | 327.3 | 0.000 | 5.91 | 102.9 | 1.9 | 0.34 | 0.1 | 0.00 | 0.15 | 0.02 | 0 |
| 1 | 1 | 15.07 | 15.07 | 33.314 | 24.658 | 327.4 | 0.003 | 5.91 | 102.9 | 1.9 | 0.34 | 0.1 | 0.00 | 0.15 | 0.02 | 1 |
| 1 | 10 ISL | 15.08 | 15.08 | 33.314 | 24.656 | 327.8 | 0.033 | 5.93 | 103.3 | 1.8 | 0.34 | 0.0 | 0.00 | 0.15 | 0.02 | 10 |
| 1 | 11 | 15.08 | 15.08 | 33.314 | 24.656 | 327.9 | 0.036 | 5.93 | 103.3 | 1.8 | 0.34 | 0.0 | 0.00 | 0.15 | 0.02 | 11 |
| 1 | 20 | 14.86 | 14.86 | 33.315 | 24.705 | 323.5 | 0.065 | 5.97 | 103.6 | 1.8 | 0.34 | 0.0 | 0.01 | 0.18 | 0.04 | 20 |
| 1 | 30 | 14.80 | 14.80 | 33.312 | 24.716 | 322.7 | 0.098 | 5.97 | 103.4 | 1.8 | 0.35 | 0.0 | 0.01 | 0.24 | 0.07 | 30 |
| 1 | 41 | 14.14 | 14.13 | 33.289 | 24.838 | 311.4 | 0.133 | 5.96 | 101.9 | 2.2 | 0.40 | 0.4 | 0.05 | 0.74 | 0.25 | 41 |
| 1 | 50 | 13.05 | 13.04 | 33.310 | 25.076 | 288.9 | 0.160 | 5.59 | 93.4 | 4.1 | 0.61 | 3.9 | 0.23 | 0.73 | 0.35 | 50 |
| 1 | 61 | 12.18 | 12.17 | 33.372 | 25.293 | 268.4 | 0.190 | 5.15 | 84.5 | 6.9 | 0.86 | 8.3 | 0.10 | 0.40 | 0.26 | 61 |
| 1 | 70 | 11.50 | 11.49 | 33.434 | 25.468 | 252.0 | 0.214 | 4.70 | 76.1 | 10.3 | 1.07 | 12.1 | 0.05 | 0.23 | 0.18 | 71 |
| 1 | 75 ISL | 11.30 | 11.29 | 33.455 | 25.521 | 247.0 | 0.226 | 4.57 | 73.6 | 11.2 | 1.13 | 13.2 | 0.03 | 0.19 | 0.16 | 76 |
| 1 | 84 | 11.06 | 11.05 | 33.484 | 25.586 | 241.0 | 0.248 | 4.42 | 70.9 | 12.2 | 1.20 | 14.4 | 0.02 | 0.15 | 0.13 | 85 |
| 1 | 100 | 10.64 | 10.63 | 33.553 | 25.715 | 229.1 | 0.286 | 4.15 | 66.0 | 15.4 | 1.33 | 16.7 | 0.01 | 0.08 | 0.09 | 101 |
| 1 | 119 | 9.77 | 9.76 | 33.713 | 25.988 | 203.4 | 0.327 | 3.68 | 57.4 | 20.9 | 1.58 | 21.0 | 0.01 | 0.02 | 0.05 | 120 |
| 1 | 125 ISL | 9.58 | 9.57 | 33.766 | 26.061 | 196.5 | 0.339 | 3.49 | 54.2 | 22.8 | 1.66 | 22.3 | 0.01 | 0.02 | 0.05 | 126 |
| 1 | 143 | 9.17 | 9.15 | 33.900 | 26.232 | 180.5 | 0.373 | 2.98 | 45.9 | 28.0 | 1.86 | 25.5 | 0.00 | 0.01 | 0.04 | 144 |
| 1 | 150 ISL | 9.08 | 9.06 | 33.926 | 26.267 | 177.3 | 0.385 | 2.88 | 44.3 | 29.2 | 1.90 | 26.1 | 0.00 | 0.01 | 0.04 | 151 |
| 1 | 174 | 8.87 | 8.85 | 33.979 | 26.342 | 170.6 | 0.427 | 2.66 | 40.7 | 32.2 | 2.01 | 27.3 | 0.01 | 0.00 | 0.05 | 175 |
| 1 | 200 ISL | 8.58 | 8.56 | 34.046 | 26.440 | 161.7 | 0.470 | 2.36 | 35.9 | 36.2 | 2.15 | 29.0 | 0.01 | 0.00 | 0.04 | 202 |
| 1 | 203 | 8.54 | 8.52 | 34.053 | 26.452 | 160.7 | 0.475 | 2.32 | 35.3 | 36.7 | 2.17 | 29.2 | 0.01 | 0.00 | 0.04 | 205 |
| 1 | 232 | 8.06 | 8.04 | 34.098 | 26.560 | 150.8 | 0.520 | 2.01 | 30.2 | 42.7 | 2.32 | 31.3 | 0.01 | | | 234 |
| 1 | 250 ISL | 7.84 | 7.82 | 34.094 | 26.590 | 148.2 | 0.547 | 1.99 | 29.8 | 44.4 | 2.35 | 31.9 | 0.01 | | | 252 |
| 1 | 272 | 7.63 | 7.60 | 34.088 | 26.616 | 146.0 | 0.579 | 1.95 | 29.0 | 46.2 | 2.39 | 32.6 | 0.00 | | | 274 |
| 1 | 300 ISL | 7.43 | 7.40 | 34.134 | 26.681 | 140.2 | 0.619 | 1.52 | 22.5 | 51.2 | 2.55 | 34.3 | 0.00 | | | 302 |
| 1 | 327 | 7.27 | 7.24 | 34.190 | 26.748 | 134.2 | 0.657 | 1.06 | 15.7 | 56.5 | 2.73 | 35.9 | 0.00 | | | 330 |
| 1 | 386 | 6.94 | 6.90 | 34.260 | 26.849 | 125.3 | 0.733 | 0.67 | 9.8 | 64.8 | 2.93 | 37.6 | 0.01 | | | 389 |
| 1 | 400 ISL | 6.84 | 6.80 | 34.264 | 26.866 | 123.8 | 0.751 | 0.62 | 9.1 | 66.3 | 2.95 | 38.0 | 0.01 | | | 403 |
| 1 | 450 | 6.46 | 6.42 | 34.267 | 26.919 | 119.2 | 0.811 | 0.50 | 7.3 | 71.3 | 3.01 | 39.4 | 0.00 | | | 454 |
| 1 | 500 ISL | 6.14 | 6.10 | 34.289 | 26.979 | 114.0 | 0.870 | 0.39 | 5.6 | 77.5 | 3.08 | 40.5 | 0.00 | | | 504 |
| 1 | 519 | 6.02 | 5.97 | 34.298 | 27.001 | 112.0 | 0.891 | 0.35 | 5.0 | 79.8 | 3.11 | 40.9 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|--------|--------|---------|-----------|--------|--------|-------|-------|-------|-------|-----|
| 32 25.1 N | 119 57.6 W | 05/05/87 | 0814 GMT | 862 M | 310 | 17 KT | | | 1014.8 MB | 15.2 C | 13.5 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS | |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 15.40 | 15.40 | 33.317 | 24.588 | 334.0 | 0.000 | 5.88 | 103.1 | 2.2 | 0.34 | 0.0 | 0.00 | 0.11 | 0.02 | 0 |
| 1 | 1 | 15.40 | 15.40 | 33.317 | 24.588 | 334.0 | 0.003 | 5.88 | 103.1 | 2.2 | 0.34 | 0.0 | 0.00 | 0.11 | 0.02 | 1 |
| 1 | 10 ISL | 15.39 | 15.39 | 33.316 | 24.590 | 334.1 | 0.033 | 5.89 | 103.3 | 2.4 | 0.36 | 0.0 | 0.00 | 0.11 | 0.02 | 10 |
| 1 | 12 | 15.39 | 15.39 | 33.316 | 24.590 | 334.2 | 0.040 | 5.89 | 103.3 | 2.4 | 0.36 | 0.0 | 0.00 | 0.11 | 0.02 | 12 |
| 1 | 20 ISL | 15.21 | 15.21 | 33.307 | 24.623 | 331.3 | 0.067 | 5.92 | 103.4 | 2.3 | 0.36 | 0.0 | 0.00 | 0.13 | 0.03 | 20 |
| 1 | 21 | 15.18 | 15.18 | 33.306 | 24.628 | 330.8 | 0.070 | 5.92 | 103.3 | 2.3 | 0.36 | 0.0 | 0.00 | 0.13 | 0.03 | 21 |
| 1 | 30 ISL | 15.08 | 15.08 | 33.304 | 24.649 | 329.1 | 0.100 | 5.95 | 103.7 | 2.3 | 0.36 | 0.0 | 0.00 | 0.16 | 0.04 | 30 |
| 1 | 31 | 15.06 | 15.06 | 33.304 | 24.653 | 328.7 | 0.103 | 5.95 | 103.6 | 2.3 | 0.36 | 0.0 | 0.00 | 0.17 | 0.04 | 31 |
| 1 | 42 | 14.40 | 14.39 | 33.311 | 24.800 | 315.0 | 0.138 | 6.07 | 104.3 | 2.4 | 0.36 | 0.0 | 0.00 | 0.37 | 0.17 | 42 |
| 1 | 50 ISL | 14.10 | 14.09 | 33.325 | 24.874 | 308.2 | 0.163 | 6.08 | 103.8 | 2.5 | 0.38 | 0.0 | 0.01 | 0.59 | 0.32 | 50 |
| 1 | 51 | 14.06 | 14.05 | 33.326 | 24.883 | 307.3 | 0.166 | 6.08 | 103.8 | 2.5 | 0.38 | 0.0 | 0.01 | 0.61 | 0.34 | 51 |
| 1 | 60 | 13.53 | 13.52 | 33.333 | 24.998 | 296.7 | 0.194 | 5.79 | 97.7 | 3.4 | 0.50 | 1.8 | 0.27 | 0.56 | 0.35 | 60 |
| 1 | 70 | 13.14 | 13.13 | 33.359 | 25.096 | 287.5 | 0.223 | 5.53 | 92.6 | 4.2 | 0.62 | 3.9 | 0.25 | 0.34 | 0.26 | 71 |
| 1 | 75 ISL | 12.99 | 12.98 | 33.366 | 25.132 | 284.2 | 0.237 | 5.44 | 90.8 | 4.6 | 0.66 | 4.7 | 0.18 | 0.29 | 0.24 | 76 |
| 1 | 84 | 12.62 | 12.61 | 33.376 | 25.212 | 276.8 | 0.262 | 5.26 | 87.1 | 5.8 | 0.74 | 6.4 | 0.04 | 0.23 | 0.20 | 85 |
| 1 | 99 | 11.40 | 11.39 | 33.418 | 25.474 | 252.0 | 0.302 | 4.77 | 77.0 | 10.0 | 1.03 | 11.5 | 0.01 | 0.13 | 0.11 | 100 |
| 1 | 100 ISL | 11.34 | 11.33 | 33.427 | 25.492 | 250.3 | 0.305 | 4.73 | 76.3 | 10.3 | 1.05 | 11.8 | 0.01 | 0.12 | 0.11 | 101 |
| 1 | 119 | 10.39 | 10.38 | 33.617 | 25.808 | 220.6 | 0.349 | 4.11 | 65.0 | | | | | 0.04 | 0.05 | 120 |
| 1 | 125 ISL | 10.16 | 10.15 | 33.658 | 25.880 | 213.8 | 0.362 | 3.96 | 62.3 | 17.5 | 1.43 | 18.4 | 0.00 | 0.03 | 0.04 | 126 |
| 1 | 144 | 9.60 | 9.58 | 33.768 | 26.060 | 197.1 | 0.401 | 3.54 | 55.0 | 22.9 | 1.65 | 22.2 | 0.00 | 0.01 | 0.03 | 145 |
| 1 | 150 ISL | 9.45 | 9.43 | 33.811 | 26.118 | 191.6 | 0.413 | 3.38 | 52.4 | 24.7 | 1.72 | 23.2 | 0.00 | 0.01 | 0.03 | 151 |
| 1 | 172 | 9.04 | 9.02 | 33.950 | 26.293 | 175.4 | 0.453 | 2.86 | 44.0 | 30.7 | 1.92 | 26.0 | 0.00 | 0.00 | 0.03 | 173 |
| 1 | 200 ISL | 8.78 | 8.76 | 34.015 | 26.385 | 167.1 | 0.501 | 2.55 | 39.0 | 34.7 | 2.06 | 27.7 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 202 | 8.76 | 8.74 | 34.018 | 26.390 | 166.6 | 0.505 | 2.53 | 38.7 | 34.9 | 2.07 | 27.8 | 0.00 | 0.00 | 0.03 | 204 |
| 1 | 231 | 8.36 | 8.34 | 34.100 | 26.517 | 155.0 | 0.551 | 2.06 | 31.2 | 41.1 | 2.27 | 30.2 | 0.00 | | | 233 |
| 1 | 250 ISL | 8.04 | 8.01 | 34.107 | 26.570 | 150.1 | 0.580 | 1.96 | 29.5 | 44.1 | 2.34 | 31.3 | 0.00 | | | 252 |
| 1 | 270 | 7.73 | 7.70 | 34.104 | 26.614 | 146.2 | 0.610 | 1.89 | 28.2 | 46.9 | 2.39 | 32.2 | 0.00 | | | 272 |
| 1 | 300 ISL | 7.51 | 7.48 | 34.140 | 26.674 | 140.9 | 0.653 | 1.55 | 23.0 | 51.1 | 2.52 | 33.7 | 0.00 | | | 302 |
| 1 | 324 | 7.38 | 7.35 | 34.170 | 26.717 | 137.2 | 0.686 | 1.27 | 18.8 | 54.4 | 2.63 | 34.9 | 0.00 | | | 327 |
| 1 | 382 | 6.80 | 6.76 | 34.180 | 26.805 | 129.3 | 0.764 | 0.94 | 13.7 | 63.3 | 2.82 | 37.4 | 0.00 | | | 385 |
| 1 | 400 ISL | 6.68 | 6.64 | 34.195 | 26.833 | 126.8 | 0.787 | 0.83 | 12.1 | 65.7 | 2.87 | 38.0 | 0.00 | | | 403 |
| 1 | 448 | 6.41 | 6.37 | 34.242 | 26.906 | 120.4 | 0.846 | 0.56 | 8.1 | 71.8 | 2.98 | 39.3 | 0.00 | | | 452 |
| 1 | 500 ISL | 6.08 | 6.04 | 34.270 | 26.971 | 114.7 | 0.907 | 0.41 | 5.9 | 78.2 | 3.06 | 40.6 | 0.00 | | | 504 |
| 1 | 518 | 5.96 | 5.91 | 34.280 | 26.995 | 112.6 | 0.928 | 0.36 | 5.2 | 80.4 | 3.09 | 41.1 | 0.00 | | | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-------------|-------|--------|---------|-----------|------|----------|-------|------|-------|--------|-------|
| 32 5.1 N | 120 38.3 W | 05/05/87 | 0222 GMT | 3924 M | 330 | 18 KT | 320 07 | 09 0 | 1014.5 MB | 16.2 | C 14.5 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 | 15.63 | 15.63 | 33.283 | 24.511 | 341.3 | 0.000 | 5.84 | 102.8 | 2.3 | 0.36 | 0.0 | 0.00 | 0.08 | 0.01 | 0 |
| 1 | 10 | 15.64 | 15.64 | 33.282 | 24.508 | 341.9 | 0.034 | 5.85 | 103.0 | 2.2 | 0.36 | 0.0 | 0.00 | 0.08 | 0.01 | 10 |
| 1 | 20 | 15.57 | 15.57 | 33.279 | 24.522 | 340.9 | 0.068 | 5.86 | 103.1 | 2.4 | 0.36 | 0.0 | 0.00 | 0.08 | 0.01 | 20 |
| 1 | 30 ISL | 15.44 | 15.44 | 33.276 | 24.549 | 338.7 | 0.102 | 5.88 | 103.1 | 2.5 | 0.36 | 0.0 | 0.00 | 0.09 | 0.01 | 30 |
| 1 | 31 | 15.43 | 15.43 | 33.276 | 24.551 | 338.5 | 0.106 | 5.88 | 103.1 | 2.5 | 0.36 | 0.0 | 0.00 | 0.09 | 0.01 | 31 |
| 1 | 41 | 15.39 | 15.38 | 33.275 | 24.559 | 338.0 | 0.139 | 5.89 | 103.2 | 1.9 | 0.35 | 0.0 | 0.00 | 0.10 | 0.02 | 41 |
| 1 | 50 ISL | 14.54 | 14.53 | 33.242 | 24.718 | 323.1 | 0.169 | 6.04 | 104.0 | 1.9 | 0.36 | 0.0 | 0.00 | 0.17 | 0.05 | 50 |
| 1 | 52 | 14.32 | 14.31 | 33.236 | 24.760 | 319.2 | 0.176 | 6.07 | 104.1 | 1.9 | 0.36 | 0.0 | 0.00 | 0.19 | 0.06 | 52 |
| 1 | 62 | 13.72 | 13.71 | 33.230 | 24.879 | 308.0 | 0.207 | 5.98 | 101.3 | 2.4 | 0.43 | 0.3 | 0.06 | 0.84 | 0.33 | 62 |
| 1 | 71 | 12.84 | 12.83 | 33.270 | 25.087 | 288.4 | 0.234 | 5.47 | 91.0 | 5.0 | 0.67 | 4.6 | 0.21 | 0.49 | 0.26 | 72 |
| 1 | 75 ISL | 12.57 | 12.56 | 33.279 | 25.146 | 282.8 | 0.245 | 5.34 | 88.3 | 5.5 | 0.74 | 5.9 | 0.19 | 0.48 | 0.25 | 76 |
| 1 | 85 | 11.96 | 11.95 | 33.307 | 25.284 | 269.8 | 0.273 | 5.06 | 82.6 | 7.0 | 0.89 | 8.9 | 0.09 | 0.46 | 0.23 | 86 |
| 100 ISL | 10.77 | 10.76 | 33.439 | 25.603 | 239.7 | 0.311 | 4.46 | 71.0 | 12.9 | 1.22 | 14.7 | 0.02 | 0.16 | 0.14 | 101 | |
| 1 | 101 | 10.70 | 10.69 | 33.449 | 25.623 | 237.8 | 0.314 | 4.42 | 70.3 | 13.3 | 1.24 | 15.1 | 0.02 | 0.14 | 0.13 | 102 |
| 1 | 121 | 10.03 | 10.02 | 33.592 | 25.850 | 216.5 | 0.359 | 3.97 | 62.3 | 17.4 | 1.48 | 19.2 | 0.01 | 0.04 | 0.05 | 122 |
| 125 ISL | 9.90 | 9.89 | 33.624 | 25.897 | 212.1 | 0.368 | 3.87 | 60.5 | 18.4 | 1.53 | 20.0 | 0.01 | 0.03 | 0.05 | 126 | |
| 1 | 145 | 9.33 | 9.31 | 33.776 | 26.110 | 192.2 | 0.408 | 3.42 | 52.9 | 23.8 | 1.72 | 23.4 | 0.00 | 0.00 | 0.03 | 146 |
| 150 ISL | 9.22 | 9.20 | 33.805 | 26.150 | 188.4 | 0.417 | 3.34 | 51.5 | 25.2 | 1.76 | 24.0 | 0.00 | 0.00 | 0.03 | 151 | |
| 1 | 175 | 8.82 | 8.80 | 33.911 | 26.297 | 175.0 | 0.463 | 3.06 | 46.8 | 31.3 | 1.89 | 26.2 | 0.00 | 0.00 | 0.03 | 176 |
| 200 ISL | 8.58 | 8.56 | 33.958 | 26.371 | 168.3 | 0.506 | 2.92 | 44.4 | 33.7 | 1.96 | 27.2 | 0.00 | 0.00 | 0.03 | 202 | |
| 1 | 204 | 8.55 | 8.53 | 33.962 | 26.379 | 167.6 | 0.513 | 2.91 | 44.2 | 33.9 | 1.97 | 27.3 | 0.00 | 0.00 | 0.03 | 206 |
| 1 | 232 | 8.23 | 8.21 | 34.000 | 26.458 | 160.5 | 0.558 | 2.83 | 42.7 | 37.2 | 2.03 | 28.3 | 0.00 | | | 234 |
| 250 ISL | 7.96 | 7.93 | 34.013 | 26.509 | 155.9 | 0.587 | 2.74 | 41.1 | 40.1 | 2.09 | 29.2 | 0.00 | | | 252 | |
| 1 | 271 | 7.63 | 7.60 | 34.028 | 26.568 | 150.4 | 0.619 | 2.56 | 38.1 | 44.1 | 2.19 | 30.5 | 0.00 | | | 273 |
| 300 ISL | 7.21 | 7.18 | 34.060 | 26.653 | 142.6 | 0.662 | 2.01 | 29.6 | 50.4 | 2.41 | 33.3 | 0.00 | | | 302 | |
| 1 | 325 | 6.93 | 6.90 | 34.098 | 26.722 | 136.3 | 0.696 | 1.49 | 21.8 | 55.6 | 2.60 | 35.7 | 0.00 | | | 328 |
| 1 | 383 | 6.85 | 6.81 | 34.230 | 26.838 | 126.3 | 0.773 | 0.72 | 10.5 | 63.4 | 2.87 | 37.7 | 0.00 | | | 386 |
| 400 ISL | 6.74 | 6.70 | 34.247 | 26.866 | 123.8 | 0.794 | 0.62 | 9.1 | 65.8 | 2.92 | 38.3 | 0.00 | | | 403 | |
| 1 | 451 | 6.35 | 6.31 | 34.271 | 26.937 | 117.5 | 0.855 | 0.47 | 6.8 | 72.6 | 3.02 | 39.8 | 0.00 | | | 455 |
| 500 ISL | 6.06 | 6.02 | 34.276 | 26.979 | 113.9 | 0.912 | 0.39 | 5.6 | 77.5 | 3.07 | 40.8 | 0.00 | | | 504 | |
| 1 | 521 | 5.93 | 5.88 | 34.279 | 26.998 | 112.3 | 0.936 | 0.36 | 5.2 | 79.6 | 3.09 | 41.2 | 0.00 | | | 525 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-------------|-------|--------|---------|-----------|------|----------|-------|------|-------|--------|-------|
| 31 45.0 N | 121 19.0 W | 04/05/87 | 1958 GMT | 3544 M | 330 | 18 KT | 330 08 | 08 0 | 1017.0 MB | 17.1 | C 15.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR | |
| 1 | 0 | 15.31 | 15.31 | 33.298 | 24.593 | 333.5 | 0.000 | 5.91 | 103.4 | 1.4 | 0.36 | 0.0 | 0.00 | 0.11 | 0.02 | 0 |
| 10 ISL | 15.21 | 15.21 | 33.295 | 24.613 | 331.9 | 0.033 | 5.92 | 103.4 | 1.3 | 0.36 | 0.0 | 0.00 | 0.12 | 0.03 | 10 | |
| 1 | 15 | 15.16 | 15.16 | 33.293 | 24.623 | 331.2 | 0.050 | 5.93 | 103.5 | 1.3 | 0.36 | 0.0 | 0.00 | 0.12 | 0.04 | 15 |
| 20 ISL | 15.14 | 15.14 | 33.290 | 24.625 | 331.1 | 0.066 | 5.94 | 103.6 | 1.3 | 0.36 | 0.0 | 0.00 | 0.12 | 0.04 | 20 | |
| 1 | 29 | 15.09 | 15.09 | 33.285 | 24.652 | 330.7 | 0.096 | 5.95 | 103.7 | 1.3 | 0.36 | 0.0 | 0.00 | 0.13 | 0.03 | 29 |
| 30 ISL | 15.03 | 15.03 | 33.281 | 24.642 | 329.8 | 0.099 | 5.96 | 103.7 | 1.4 | 0.36 | 0.0 | 0.00 | 0.13 | 0.03 | 30 | |
| 1 | 39 | 14.31 | 14.30 | 33.265 | 24.784 | 316.5 | 0.129 | 6.08 | 104.3 | 2.1 | 0.38 | 0.1 | 0.02 | 0.24 | 0.07 | 39 |
| 1 | 49 | 13.44 | 13.43 | 33.344 | 25.024 | 293.8 | 0.159 | 6.15 | 103.6 | 2.1 | 0.45 | 0.9 | 0.08 | 0.61 | 0.24 | 49 |
| 50 ISL | 13.38 | 13.37 | 33.341 | 25.034 | 292.9 | 0.162 | 6.11 | 102.8 | 2.2 | 0.46 | 1.1 | 0.09 | 0.60 | 0.24 | 50 | |
| 1 | 60 | 13.01 | 13.00 | 33.313 | 25.086 | 288.2 | 0.191 | 5.74 | 95.8 | 3.2 | 0.58 | 3.0 | 0.19 | 0.47 | 0.22 | 60 |
| 1 | 69 | 12.98 | 12.97 | 33.387 | 25.150 | 282.4 | 0.217 | 5.89 | 98.3 | 2.6 | 0.62 | 2.6 | 0.19 | 0.33 | 0.17 | 70 |
| 75 ISL | 12.72 | 12.71 | 33.398 | 25.209 | 276.8 | 0.234 | 5.71 | 94.8 | 3.9 | 0.71 | 4.1 | 0.30 | 0.25 | 0.17 | 76 | |
| 1 | 78 | 12.57 | 12.56 | 33.401 | 25.241 | 273.9 | 0.242 | 5.59 | 92.5 | 4.8 | 0.76 | 5.0 | 0.37 | 0.21 | 0.17 | 79 |
| 1 | 93 | 12.10 | 12.09 | 33.455 | 25.373 | 261.6 | 0.282 | 5.38 | 88.2 | 7.7 | 0.93 | 7.9 | 0.53 | 0.12 | 0.14 | 94 |
| 100 ISL | 11.75 | 11.74 | 33.486 | 25.463 | 253.2 | 0.300 | 5.10 | 83.0 | 9.8 | 1.05 | 10.4 | 0.50 | 0.09 | 0.13 | 101 | |
| 1 | 109 | 11.25 | 11.24 | 33.525 | 25.585 | 241.7 | 0.322 | 4.68 | 75.4 | 12.4 | 1.21 | 13.7 | 0.45 | 0.06 | 0.12 | 110 |
| 1 | 124 | 10.47 | 10.46 | 33.565 | 25.754 | 225.9 | 0.357 | 4.03 | 63.8 | 15.1 | 1.39 | 17.6 | 0.02 | 0.03 | 0.07 | 125 |
| 125 ISL | 10.43 | 10.42 | 33.572 | 25.766 | 224.7 | 0.360 | 4.00 | 63.3 | 15.3 | 1.40 | 17.8 | 0.02 | 0.03 | 0.07 | 126 | |
| 1 | 148 | 9.65 | 9.63 | 33.754 | 26.041 | 199.0 | 0.408 | 3.45 | 53.7 | 21.4 | 1.66 | 22.2 | 0.01 | 0.01 | 0.05 | 149 |
| 150 ISL | 9.59 | 9.57 | 33.768 | 26.061 | 197.0 | 0.412 | 3.41 | 53.0 | 22.0 | 1.68 | 22.5 | 0.01 | 0.01 | 0.05 | 151 | |
| 1 | 173 | 9.01 | 8.99 | 33.906 | 26.263 | 178.2 | 0.455 | 3.05 | 46.8 | 28.5 | 1.87 | 25.7 | 0.01 | 0.00 | 0.05 | 174 |
| 200 ISL | 8.60 | 8.58 | 34.003 | 26.404 | 165.2 | 0.502 | 2.71 | 41.3 | 33.1 | 2.03 | 27.8 | 0.01 | 0.00 | 0.05 | 202 | |
| 1 | 202 | 8.58 | 8.56 | 34.008 | 26.411 | 164.6 | 0.505 | 2.69 | 40.9 | 33.4 | 2.04 | 27.9 | 0.01 | | | 204 |
| 1 | 230 | 8.38 | 8.36 | 34.060 | 26.482 | 158.2 | 0.550 | 2.41 | 36.5 | 36.6 | 2.15 | 29.2 | 0.01 | | | 232 |
| 250 ISL | 8.02 | 7.99 | 34.046 | 26.525 | 154.3 | 0.581 | 2.49 | 37.4 | 38.7 | 2.16 | 29.8 | 0.01 | | | 252 | |
| 1 | 270 | 7.65 | 7.62 | 34.031 | 26.568 | 150.4 | 0.612 | 2.54 | 37.8 | 41.2 | 2.19 | 30.6 | 0.00 | | | 272 |
| 300 ISL | 7.46 | 7.43 | 34.093 | 26.644 | 143.7 | 0.656 | 1.95 | 28.9 | 46.7 | 2.41 | 32.8 | 0.00 | | | 302 | |
| 1 | 324 | 7.34 | 7.31 | 34.146 | 26.703 | 138.4 | 0.690 | 1.40 | 20.7 | 51.9 | 2.60 | 34.8 | 0.00 | | | 327 |
| 1 | 382 | 6.40 | 6.37 | 34.120 | 26.811 | 128.4 | 0.767 | 1.11 | 16.1 | 64.9 | 2.79 | 38.4 | 0.00 | | | 385 |
| 400 ISL | 6.22 | 6.18 | 34.129 | 26.841 | 125.6 | 0.790 | 1.00 | 14.4 | 68.2 | 2.85 | 39.2 | 0.00 | | | 403 | |
| 1 | 448 | 5.87 | 5.83 | 34.168 | 26.916 | 118.8 | 0.849 | 0.70 | 10.0 | 75.6 | 2.99 | 40.9 | 0.00 | | | 452 |
| 500 ISL | 5.60 | 5.56 | 34.217 | 26.989 | 112.4 | 0.909 | 0.49 | 7.0 | 82.0 | 3.09 | 42.0 | 0.00 | | | 504 | |
| 1 | 519 | 5.50 | 5.46 | 34.235 | 27.015 | 110.1 | 0.930 | 0.42 | 6.0 | 84.3 | 3.12 | 42.4 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 90

| LATITUDE 31 25.1 N | LONGITUDE 121 59.5 W | DAY/MO/YR 04/05/87 | MESSINGER 1340 GMT | BOTTOM 3733 M | WIND 350 18 KT | SPEED 340 06 06 | WAVES WEATHER 1 | BAROMETER 1017.5 MB | DRY 16.0 C | WET 13.9 C | CLOUD 2/8 | AMT ST | TYPE | | | |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|--------------------|-----------------------|------------------------|---------------|---------------|--------------|-------------|-------------|---------------|---------------|----------------|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | 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 | PHAE0 UG/L | PRESS D.BAR |
| 1 | 0 | 15.95 | 15.95 | 33.356 | 24.495 | 342.8 | 0.000 | 5.78 | 102.5 | 1.8 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 0 |
| 2 | 10 | 15.95 | 15.95 | 33.355 | 24.495 | 343.1 | 0.034 | 5.78 | 102.5 | 1.8 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 10 |
| 1 | 15 | 15.96 | 15.96 | 33.355 | 24.493 | 343.6 | 0.051 | 5.79 | 102.7 | 1.8 | 0.34 | 0.0 | 0.00 | 0.06 | 0.01 | 15 |
| 1 | 20 ISL | 15.96 | 15.96 | 33.354 | 24.492 | 343.8 | 0.069 | 5.79 | 102.7 | 1.8 | 0.34 | 0.0 | 0.00 | 0.06 | 0.01 | 20 |
| 1 | 30 | 15.95 | 15.95 | 33.354 | 24.495 | 343.8 | 0.103 | 5.78 | 102.5 | 1.8 | 0.34 | 0.0 | 0.00 | 0.06 | 0.01 | 30 |
| 1 | 40 | 15.97 | 15.96 | 33.355 | 24.491 | 344.5 | 0.137 | 5.79 | 102.7 | 2.3 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 40 |
| 1 | 50 | 15.83 | 15.82 | 33.352 | 24.521 | 341.9 | 0.172 | 5.81 | 102.7 | 1.7 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 50 |
| 1 | 61 | 15.60 | 15.59 | 33.343 | 24.566 | 338.0 | 0.209 | 5.85 | 103.0 | 1.7 | 0.33 | 0.0 | 0.00 | 0.09 | 0.02 | 61 |
| 1 | 70 | 15.44 | 15.43 | 33.339 | 24.598 | 335.2 | 0.239 | 5.86 | 102.8 | 1.7 | 0.33 | 0.0 | 0.00 | 0.11 | 0.03 | 71 |
| 1 | 75 ISL | 15.20 | 15.19 | 33.324 | 24.640 | 331.4 | 0.256 | 5.87 | 102.5 | 1.8 | 0.33 | 0.0 | 0.00 | 0.13 | 0.04 | 76 |
| 1 | 80 | 14.91 | 14.90 | 33.311 | 24.693 | 326.4 | 0.273 | 5.88 | 102.1 | 1.9 | 0.34 | 0.0 | 0.00 | 0.16 | 0.06 | 81 |
| 1 | 94 | 14.03 | 14.02 | 33.336 | 24.898 | 307.1 | 0.317 | 5.72 | 97.6 | 3.0 | 0.42 | 0.8 | 0.10 | 0.38 | 0.19 | 95 |
| 100 ISL | 13.67 | 13.66 | 33.356 | 24.988 | 298.7 | 0.335 | 5.59 | 94.6 | 3.5 | 0.48 | 1.9 | 0.10 | 0.36 | 0.19 | 101 | |
| 1 | 110 | 13.19 | 13.17 | 33.390 | 25.112 | 287.2 | 0.364 | 5.39 | 90.4 | 4.4 | 0.59 | 3.9 | 0.11 | 0.33 | 0.20 | 111 |
| 1 | 124 | 12.93 | 12.91 | 33.411 | 25.180 | 281.0 | 0.404 | 5.27 | 87.9 | 5.3 | 0.66 | 5.2 | 0.07 | 0.28 | 0.20 | 125 |
| 125 ISL | 12.89 | 12.87 | 33.415 | 25.191 | 280.0 | 0.407 | 5.25 | 87.5 | 5.5 | 0.67 | 5.4 | 0.07 | 0.27 | 0.20 | 126 | |
| 1 | 148 | 11.59 | 11.57 | 33.547 | 25.541 | 246.9 | 0.468 | 4.58 | 74.3 | 11.1 | 1.03 | 11.6 | 0.02 | 0.13 | 0.16 | 149 |
| 150 ISL | 11.46 | 11.44 | 33.559 | 25.574 | 243.8 | 0.472 | 4.52 | 73.1 | 11.8 | 1.07 | 12.3 | 0.02 | 0.12 | 0.15 | 151 | |
| 173 | 10.04 | 10.02 | 33.704 | 25.937 | 209.5 | 0.525 | 3.88 | 60.9 | 19.6 | 1.47 | 19.2 | 0.00 | 0.02 | 0.06 | 174 | |
| 200 ISL | 9.02 | 9.00 | 33.869 | 26.233 | 181.6 | 0.577 | 3.53 | 54.2 | 26.7 | 1.71 | 23.5 | 0.00 | 0.00 | 0.03 | 202 | |
| 203 | 8.94 | 8.92 | 33.884 | 26.257 | 179.3 | 0.583 | 3.51 | 53.8 | 27.3 | 1.73 | 23.8 | 0.00 | 0.00 | 0.03 | 205 | |
| 232 | 8.43 | 8.41 | 33.969 | 26.403 | 165.8 | 0.633 | 3.21 | 48.7 | 32.2 | 1.89 | 26.3 | 0.00 | 0.00 | 0.00 | 234 | |
| 250 ISL | 8.21 | 8.18 | 34.012 | 26.470 | 159.6 | 0.662 | 2.84 | 42.8 | 36.4 | 2.03 | 28.2 | 0.00 | 0.00 | 0.00 | 252 | |
| 270 | 8.02 | 7.99 | 34.056 | 26.534 | 153.9 | 0.693 | 2.37 | 35.6 | 41.2 | 2.20 | 30.3 | 0.00 | 0.00 | 0.00 | 272 | |
| 300 ISL | 7.81 | 7.78 | 34.130 | 26.623 | 145.9 | 0.738 | 1.71 | 25.6 | 47.4 | 2.45 | 32.8 | 0.00 | 0.00 | 0.00 | 302 | |
| 325 | 7.66 | 7.63 | 34.185 | 26.688 | 140.1 | 0.774 | 1.24 | 18.5 | 52.0 | 2.63 | 34.4 | 0.00 | 0.00 | 0.00 | 328 | |
| 383 | 7.30 | 7.26 | 34.264 | 26.802 | 130.0 | 0.853 | 0.68 | 10.1 | 60.2 | 2.88 | 36.7 | 0.00 | 0.00 | 0.00 | 386 | |
| 400 ISL | 7.16 | 7.12 | 34.274 | 26.830 | 127.5 | 0.874 | 0.59 | 8.7 | 62.5 | 2.92 | 37.3 | 0.00 | 0.00 | 0.00 | 403 | |
| 449 | 6.75 | 6.71 | 34.290 | 26.899 | 121.4 | 0.935 | 0.44 | 6.4 | 68.7 | 3.01 | 38.7 | 0.00 | 0.00 | 0.00 | 453 | |
| 500 ISL | 6.49 | 6.44 | 34.301 | 26.943 | 117.8 | 0.996 | 0.36 | 5.2 | 73.4 | 3.07 | 39.6 | 0.00 | 0.00 | 0.00 | 504 | |
| 520 | 6.39 | 6.34 | 34.306 | 26.960 | 116.4 | 1.020 | 0.33 | 4.8 | 75.2 | 3.10 | 40.0 | 0.00 | 0.00 | 0.00 | 524 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 100

| LATITUDE 31 5.1 N | LONGITUDE 122 39.7 W | DAY/MO/YR 04/05/87 | MESSINGER 0734 GMT | BOTTOM 4210 M | WIND 350 19 KT | SPEED 340 19 19 | WAVES | WEATHER | BAROMETER 1017.9 MB | DRY 15.9 C | WET 13.8 C | CLOUD | AMT | TYPE | | |
|----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|--------------------|--------|----------------|------------------------|---------------|---------------|-------------|-------------|---------------|---------------|----------------|
| CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | 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 | PHAE0 UG/L | PRESS D.BAR |
| 0 ISL | 16.17 | 16.17 | 33.324 | 24.421 | 349.9 | 0.000 | 5.77 | 102.7 | 2.8 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 | 0 | |
| 1 | 16.17 | 16.17 | 33.324 | 24.421 | 349.9 | 0.003 | 5.77 | 102.7 | 2.8 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 | 1 | |
| 10 ISL | 16.18 | 16.18 | 33.323 | 24.418 | 350.5 | 0.035 | 5.77 | 102.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.01 | 10 | |
| 17 | 16.18 | 16.18 | 33.323 | 24.418 | 350.7 | 0.060 | 5.77 | 102.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.01 | 17 | |
| 20 ISL | 16.18 | 16.18 | 33.324 | 24.419 | 350.7 | 0.070 | 5.77 | 102.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.08 | 0.01 | 20 | |
| 30 ISL | 16.18 | 16.18 | 33.326 | 24.421 | 350.9 | 0.105 | 5.77 | 102.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.07 | 0.01 | 30 | |
| 32 | 16.18 | 16.17 | 33.326 | 24.421 | 350.9 | 0.112 | 5.77 | 102.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.07 | 0.01 | 32 | |
| 41 | 15.81 | 15.80 | 33.339 | 24.515 | 342.2 | 0.143 | 5.84 | 103.2 | 2.9 | 0.34 | 0.0 | 0.00 | 0.08 | 0.02 | 41 | |
| 50 ISL | 15.57 | 15.56 | 33.328 | 24.561 | 338.2 | 0.174 | 5.87 | 103.3 | 2.6 | 0.34 | 0.0 | 0.00 | 0.11 | 0.02 | 50 | |
| 51 | 15.55 | 15.54 | 33.327 | 24.564 | 337.8 | 0.177 | 5.87 | 103.2 | 2.6 | 0.34 | 0.0 | 0.00 | 0.11 | 0.02 | 51 | |
| 61 | 15.24 | 15.23 | 33.335 | 24.639 | 331.0 | 0.211 | 5.91 | 103.3 | 2.6 | 0.34 | 0.0 | 0.00 | 0.13 | 0.03 | 61 | |
| 70 | 15.17 | 15.16 | 33.406 | 24.709 | 324.6 | 0.240 | 5.88 | 102.7 | 2.6 | 0.34 | 0.0 | 0.00 | 0.19 | 0.08 | 71 | |
| 75 ISL | 14.95 | 14.94 | 33.393 | 24.747 | 321.1 | 0.256 | 5.87 | 102.0 | 2.7 | 0.35 | 0.0 | 0.00 | 0.25 | 0.12 | 76 | |
| 79 | 14.71 | 14.70 | 33.374 | 24.784 | 317.7 | 0.269 | 5.86 | 101.4 | 2.7 | 0.36 | 0.0 | 0.00 | 0.30 | 0.15 | 80 | |
| 94 | 13.49 | 13.48 | 33.377 | 25.041 | 293.5 | 0.315 | 5.45 | 91.9 | 4.7 | 0.57 | 3.5 | 0.12 | 0.40 | 0.26 | 95 | |
| 100 ISL | 13.01 | 13.00 | 33.436 | 25.183 | 280.1 | 0.332 | 5.26 | 87.9 | 5.7 | 0.65 | 5.2 | 0.09 | 0.34 | 0.24 | 101 | |
| 108 | 12.38 | 12.37 | 33.516 | 25.367 | 262.6 | 0.354 | 4.99 | 82.3 | 7.3 | 0.78 | 7.6 | 0.03 | 0.24 | 0.20 | 109 | |
| 123 | 11.28 | 11.26 | 33.533 | 25.586 | 242.0 | 0.392 | 4.49 | 72.3 | 11.4 | 1.10 | 12.7 | 0.01 | 0.14 | 0.14 | 124 | |
| 125 ISL | 11.17 | 11.15 | 33.543 | 25.614 | 239.4 | 0.397 | 4.44 | 71.4 | 12.0 | 1.13 | 13.2 | 0.01 | 0.13 | 0.13 | 126 | |
| 148 | 10.20 | 10.18 | 33.695 | 25.902 | 212.2 | 0.449 | 3.97 | 62.5 | 18.2 | 1.42 | 18.3 | 0.00 | 0.03 | 0.05 | 149 | |
| 150 ISL | 10.13 | 10.11 | 33.707 | 25.924 | 210.2 | 0.453 | 3.92 | 61.7 | 18.7 | 1.44 | 18.7 | 0.00 | 0.03 | 0.05 | 151 | |
| 172 | 9.55 | 9.53 | 33.831 | 26.117 | 192.1 | 0.497 | 3.40 | 52.8 | 24.4 | 1.69 | 22.6 | 0.00 | 0.01 | 0.03 | 173 | |
| 200 ISL | 9.19 | 9.17 | 33.970 | 26.285 | 176.7 | 0.549 | 2.83 | 43.7 | 30.1 | 1.93 | 25.9 | 0.00 | 0.00 | 0.03 | 202 | |
| 202 | 9.17 | 9.15 | 33.979 | 26.295 | 175.8 | 0.552 | 2.80 | 43.2 | 30.5 | 1.94 | 26.1 | 0.00 | 0.00 | 0.03 | 204 | |
| 230 | 8.74 | 8.72 | 34.068 | 26.433 | 163.1 | 0.600 | 2.46 | 37.6 | 35.9 | 2.12 | 28.3 | 0.00 | 0.00 | 0.00 | 232 | |
| 250 ISL | 8.52 | 8.49 | 34.098 | 26.491 | 157.9 | 0.632 | 2.26 | 34.4 | 38.8 | 2.21 | 29.3 | 0.00 | 0.00 | 0.00 | 252 | |
| 270 | 8.32 | 8.29 | 34.114 | 26.534 | 154.1 | 0.663 | 2.07 | 31.3 | 41.4 | 2.28 | 30.2 | 0.00 | 0.00 | 0.00 | 272 | |
| 300 ISL | 7.93 | 7.90 | 34.134 | 26.609 | 147.4 | 0.708 | 1.79 | 26.8 | 45.7 | 2.43 | 32.1 | 0.00 | 0.00 | 0.00 | 302 | |
| 325 | 7.57 | 7.54 | 34.141 | 26.667 | 142.1 | 0.744 | 1.57 | 23.4 | 49.8 | 2.55 | 33.7 | 0.00 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 30 45.1 N | 123 20.0 W | 04/05/87 | 0112 GMT | 3924 M | 350 | 21 KT | 340 08 | 09 1 | 1018.1 MB | 16.9 C | 14.4 C | 7/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P-04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 17.00 | 17.00 | 33.679 | 24.501 | 342.2 | 0.000 | 5.66 | 102.6 | 1.9 | 0.27 | 0.1 | 0.00 | 0.06 | 0.02 | 0 |
| 1 | 10 ISL | 17.00 | 17.00 | 33.678 | 24.501 | 342.6 | 0.034 | 5.67 | 102.8 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 10 |
| 1 | 16 | 17.00 | 17.00 | 33.678 | 24.501 | 342.8 | 0.055 | 5.67 | 102.8 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 16 |
| 1 | 20 ISL | 17.00 | 17.00 | 33.678 | 24.501 | 342.9 | 0.069 | 5.67 | 102.8 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 20 |
| 1 | 30 ISL | 16.99 | 16.99 | 33.679 | 24.505 | 343.0 | 0.103 | 5.66 | 102.6 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 30 |
| 1 | 35 | 16.99 | 16.98 | | | | 0.120 | 5.66 | 102.6 | | | | | 0.06 | 0.02 | 35 |
| 1 | 50 ISL | 16.98 | 16.97 | 33.680 | 24.509 | 343.2 | 0.171 | 5.67 | 102.7 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 50 |
| 1 | 57 | 16.97 | 16.96 | 33.681 | 24.512 | 343.1 | 0.195 | 5.68 | 102.9 | 1.8 | 0.27 | 0.0 | 0.00 | 0.06 | 0.02 | 57 |
| 1 | 73 | 16.82 | 16.81 | 33.731 | 24.586 | 336.6 | 0.250 | 5.70 | 103.0 | 1.8 | 0.26 | 0.0 | 0.00 | 0.08 | 0.02 | 74 |
| 1 | 75 ISL | 16.81 | 16.80 | 33.756 | 24.608 | 334.6 | 0.257 | 5.70 | 103.0 | 1.8 | 0.26 | 0.0 | 0.00 | 0.10 | 0.03 | 76 |
| 1 | 81 | 16.79 | 16.78 | 33.831 | 24.670 | 328.9 | 0.276 | 5.68 | 102.6 | 1.9 | 0.25 | 0.0 | 0.00 | 0.16 | 0.04 | 82 |
| 1 | 90 | 16.85 | 16.84 | 33.881 | 24.695 | 326.8 | 0.306 | 5.64 | 102.0 | 1.8 | 0.24 | 0.0 | 0.00 | 0.09 | 0.04 | 91 |
| 100 ISL | 17.08 | 17.06 | 34.040 | 24.763 | 320.7 | 0.338 | 5.59 | 101.7 | 1.8 | 0.22 | 0.0 | 0.00 | 0.13 | 0.06 | 101 | |
| 1 | 101 | 17.09 A | 17.07 | 34.055 | 24.772 | 319.9 | 0.342 | 5.59 | 101.7 | 1.8 | 0.22 | 0.0 | 0.00 | 0.14 | 0.06 | 102 |
| 1 | IIO | 16.70 | 16.68 | 34.057 | 24.866 | 311.2 | 0.370 | 5.56 | 100.4 | 2.5 | 0.22 | 0.0 | 0.00 | 0.16 | 0.08 | 111 |
| 1 | 125 | 15.90 | 15.88 | 35.955 | 24.972 | 301.5 | 0.416 | 5.51 | 97.9 | 2.3 | 0.28 | 0.3 | 0.03 | 0.33 | 0.16 | 126 |
| 1 | 140 | 14.09 | 14.07 | 33.757 | 25.213 | 278.6 | 0.459 | 5.32 | 91.1 | 3.7 | 0.46 | 2.8 | 0.07 | 0.28 | 0.18 | 141 |
| 1 | 150 ISL | 13.34 | 13.32 | 33.732 | 25.347 | 265.9 | 0.487 | 5.15 | 86.8 | 4.9 | 0.58 | 4.8 | 0.05 | 0.22 | 0.16 | 151 |
| 1 | 160 | 12.76 | 12.74 | 33.736 | 25.466 | 254.8 | 0.513 | 4.99 | 83.1 | 6.4 | 0.70 | 6.9 | 0.02 | 0.15 | 0.14 | 161 |
| 1 | 180 | 11.60 | 11.58 | 33.707 | 25.664 | 236.0 | 0.562 | 4.75 | 77.1 | 10.2 | 0.92 | 10.7 | 0.01 | 0.08 | 0.10 | 181 |
| 200 ISL | 10.38 | 10.36 | 33.732 | 25.901 | 213.6 | 0.607 | 4.39 | 69.4 | 15.6 | 1.22 | 15.7 | 0.00 | 0.03 | 0.06 | 202 | |
| 1 | 205 | 10.09 | 10.07 | 33.747 | 25.963 | 207.7 | 0.617 | 4.29 | 67.4 | 17.1 | 1.30 | 17.0 | 0.00 | 0.02 | 0.05 | 207 |
| 1 | 233 | 8.93 | 8.90 | 33.887 | 26.262 | 179.4 | 0.671 | 3.88 | 59.5 | 25.2 | 1.61 | 22.2 | 0.00 | | | 235 |
| 250 ISL | 8.57 | 8.54 | 33.934 | 26.355 | 170.8 | 0.701 | 3.75 | 57.0 | 28.3 | 1.70 | 23.7 | 0.00 | | | 252 | |
| 1 | 272 | 8.26 | 8.23 | 33.969 | 26.430 | 163.9 | 0.738 | 3.59 | 54.2 | 31.9 | 1.78 | 25.1 | 0.00 | | | 274 |
| 300 ISL | 7.77 | 7.74 | 33.993 | 26.521 | 155.5 | 0.783 | 3.20 | 47.8 | 38.4 | 1.97 | 27.8 | 0.00 | | | 302 | |
| 1 | 328 | 7.32 | 7.29 | 34.009 | 26.598 | 148.4 | 0.825 | 2.72 | 40.2 | 45.4 | 2.18 | 30.6 | 0.00 | | | 331 |
| 1 | 386 | 6.63 | 6.59 | 34.066 | 26.738 | 135.5 | 0.908 | 1.63 | 23.7 | 59.4 | 2.62 | 36.1 | 0.00 | | | 389 |
| 400 ISL | 6.47 | 6.43 | 34.072 | 26.764 | 133.1 | 0.926 | 1.47 | 21.3 | 62.3 | 2.69 | 37.0 | 0.00 | | | 403 | |
| 1 | 450 | 5.96 | 5.92 | 34.097 | 26.849 | 125.3 | 0.991 | 1.06 | 15.2 | 71.9 | 2.87 | 39.6 | 0.00 | | | 454 |
| 500 ISL | 5.61 | 5.57 | 34.153 | 26.937 | 117.3 | 1.052 | 0.71 | 10.1 | 80.4 | 3.02 | 41.5 | 0.00 | | | 504 | |
| 1 | 518 | 5.49 | 5.45 | 34.174 | 26.968 | 114.5 | 1.073 | 0.59 | 8.4 | 83.4 | 3.08 | 42.2 | 0.00 | | | 522 |

A) ALTERNATE VALUE, 17.34 DEGREES CELSIUS, NOT USED IN INTERPOLATION.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 120

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|---------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 30 25.0 N | 123 59.9 W | 03/05/87 | 1831 GMT | 3924 M | 350 | 21 KT | 340 07 | 09 1 | 1021.3 MB | 17.2 C | 15.0 C | 7/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 17.02 | 17.02 | 33.668 | 24.488 | 343.5 | 0.000 | 5.67 | 102.8 | 2.2 | 0.28 | 0.0 | 0.00 | 0.06 | 0.01 | 0 |
| 1 | 1 | 17.02 | 17.02 | 33.668 | 24.488 | 343.5 | 0.003 | 5.67 | 102.8 | 2.2 | 0.28 | 0.0 | 0.00 | 0.06 | 0.01 | 1 |
| 1 | 10 ISL | 17.01 | 17.01 | 33.667 | 24.490 | 343.6 | 0.034 | 5.66 | 102.6 | 2.2 | 0.29 | 0.0 | 0.00 | 0.06 | 0.01 | 16 |
| 1 | 16 | 17.00 | 17.00 | 33.666 | 24.492 | 343.7 | 0.055 | 5.66 | 102.6 | 2.2 | 0.29 | 0.0 | 0.00 | 0.06 | 0.01 | 30 |
| 1 | 20 ISL | 17.00 | 17.00 | 33.665 | 24.491 | 343.9 | 0.069 | 5.66 | 102.6 | 2.2 | 0.29 | 0.0 | 0.00 | 0.06 | 0.00 | 36 |
| 1 | 36 | 16.97 | 16.96 | 33.667 | 24.500 | 343.5 | 0.124 | 5.67 | 102.7 | 2.2 | 0.29 | 0.0 | 0.00 | 0.06 | 0.00 | 55 |
| 1 | 50 ISL | 16.91 | 16.90 | 33.671 | 24.518 | 342.3 | 0.172 | 5.68 | 102.8 | 2.2 | 0.28 | 0.0 | 0.00 | 0.07 | 0.01 | 50 |
| 1 | 55 | 16.88 | 16.87 | 33.680 | 24.532 | 341.1 | 0.189 | 5.68 | 102.7 | 2.2 | 0.28 | 0.0 | 0.00 | 0.07 | 0.01 | 55 |
| 1 | 71 | 16.76 | 16.75 | 33.776 | 24.635 | 331.9 | 0.243 | 5.70 | 102.9 | 2.1 | 0.25 | 0.0 | 0.00 | 0.07 | 0.02 | 72 |
| 1 | 75 ISL | 16.90 | 16.89 | 33.879 | 24.681 | 327.7 | 0.256 | 5.67 | 102.7 | 2.1 | 0.24 | 0.0 | 0.00 | 0.07 | 0.02 | 76 |
| 2 | 79 | 17.00 | 16.99 | 33.968 | 24.726 | 323.5 | 0.269 | 5.64 | 102.4 | 2.1 | 0.23 | 0.0 | 0.00 | 0.08 | 0.03 | 80 |
| 2 | 90 | 16.56 | 16.55 | 33.890 | 24.770 | 319.7 | 0.304 | 5.61 | 100.9 | 2.2 | 0.25 | 0.0 | 0.00 | 0.11 | 0.04 | 91 |
| 2 | 99 | 16.10 | 16.08 | 33.904 | 24.886 | 308.8 | 0.333 | 5.57 | 99.3 | 2.5 | 0.27 | 0.0 | 0.00 | 0.18 | 0.08 | 100 |
| 100 ISL | 16.04 | 16.02 | 33.899 | 24.896 | 307.9 | 0.336 | 5.57 | 99.2 | 2.5 | 0.27 | 0.0 | 0.00 | 0.19 | 0.09 | 101 | |
| 2 | 111 | 15.30 | 15.28 | 33.814 | 24.996 | 298.6 | 0.369 | 5.53 | 97.0 | 2.7 | 0.32 | 0.3 | 0.04 | 0.30 | 0.17 | 112 |
| 2 | 124 | 14.11 | 14.09 | 33.746 | 25.199 | 279.4 | 0.407 | 5.34 | 91.4 | 3.9 | 0.46 | 2.5 | 0.08 | 0.25 | 0.15 | 125 |
| 2 | 125 ISL | 14.07 | 14.05 | 33.747 | 25.208 | 278.6 | 0.409 | 5.33 | 91.2 | 3.9 | 0.47 | 2.6 | 0.08 | 0.25 | 0.15 | 126 |
| 2 | 139 | 13.62 | 13.60 | 33.769 | 25.319 | 268.4 | 0.448 | 5.19 | 88.0 | 4.8 | 0.57 | 4.0 | 0.04 | 0.20 | 0.13 | 140 |
| 2 | 150 ISL | 12.88 | 12.86 | 33.748 | 25.451 | 255.9 | 0.476 | 5.03 | 84.0 | 6.3 | 0.68 | 6.3 | 0.03 | 0.14 | 0.10 | 151 |
| 2 | 158 | 12.29 | 12.27 | 33.729 | 25.551 | 246.5 | 0.497 | 4.91 | 80.9 | 7.7 | 0.78 | 8.2 | 0.02 | 0.10 | 0.08 | 159 |
| 2 | 179 | 11.09 | 11.07 | 33.717 | 25.765 | 226.3 | 0.546 | 4.62 | 74.2 | 11.9 | 1.06 | 12.6 | 0.01 | 0.04 | 0.07 | 180 |
| 2 | 200 ISL | 10.22 | 10.20 | 33.750 | 25.943 | 209.6 | 0.592 | 4.30 | 67.8 | 16.5 | 1.29 | 16.6 | 0.01 | 0.02 | 0.04 | 202 |
| 2 | 203 | 10.11 | 10.09 | 33.758 | 25.968 | 207.2 | 0.598 | 4.25 | 66.8 | 17.2 | 1.32 | 17.1 | 0.01 | 0.02 | 0.04 | 205 |
| 2 | 232 | 9.10 | 9.07 | 33.867 | 26.219 | 183.5 | 0.655 | 3.87 | 59.5 | 24.4 | 1.59 | 21.7 | 0.01 | | | 234 |
| 2 | 270 | 8.34 | 8.31 | 33.967 | 26.416 | 165.2 | 0.721 | 3.93 | 59.4 | 29.7 | 1.67 | 23.5 | 0.00 | | | 272 |
| 300 ISL | 7.85 | 7.82 | 34.058 | 26.561 | 151.8</ | | | | | | | | | | | |

RV DAVID STARR JORDAN CALCOFI CRUISE 8705 STATION 93 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 57.3 N | 117 18.4 W | 30/04/87 | 2354 GMT | 68 M | 280 | 07 KT | 290 01 03 | 1 | 1016.9 MB | 18.7 C | 15.2 C | 1/8 | CI | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 17.95 | 17.95 | 33.508 | 24.143 | 376.4 | 0.000 | 5.87 | 108.2 | 2.2 | 0.27 | 0.0 | 0.00 | 0.35 | 0.05 | 0 |
| 1 | 1 L | 17.95 | 17.95 | 33.508 | 24.143 | 376.5 | 0.004 | 5.87 | 108.2 | 2.2 | 0.27 | 0.0 | 0.00 | 0.35 | 0.05 | 1 |
| 1 | 10 ISL | 16.02 | 16.02 | 33.456 | 24.557 | 337.3 | 0.036 | 6.27 | 111.4 | 2.2 | 0.27 | 0.0 | 0.00 | 0.26 | 0.06 | 10 |
| 1 | 11 | 15.71 | 15.71 | 33.451 | 24.623 | 331.0 | 0.039 | 6.33 | 111.8 | 2.2 | 0.27 | 0.0 | 0.00 | 0.25 | 0.06 | 11 |
| 1 | 20 ISL | 13.92 | 13.92 | 33.427 | 24.990 | 296.4 | 0.067 | 6.41 | 109.2 | 3.9 | 0.33 | 0.0 | 0.01 | 0.40 | 0.12 | 20 |
| 1 | 21 | 13.75 | 13.75 | 33.427 | 25.024 | 293.0 | 0.070 | 6.42 | 108.9 | 4.1 | 0.34 | 0.0 | 0.01 | 0.43 | 0.13 | 21 |
| 1 | 30 ISL | 12.97 | 12.97 | 33.447 | 25.197 | 276.8 | 0.096 | 5.89 | 98.4 | 6.2 | 0.55 | 3.1 | 0.26 | 0.84 | 0.28 | 30 |
| 1 | 32 | 12.84 | 12.84 | 33.455 | 25.229 | 273.8 | 0.102 | 5.69 | 94.8 | 6.8 | 0.62 | 4.2 | 0.32 | 0.92 | 0.31 | 32 |
| 1 | 42 | 11.77 | 11.76 | 33.529 | 25.491 | 249.1 | 0.128 | 4.32 | 70.4 | 12.1 | 1.15 | 11.6 | 0.44 | 0.81 | 0.43 | 42 |
| 1 | 50 ISL | 11.17 | 11.16 | 33.578 | 25.639 | 235.2 | 0.147 | 4.14 | 66.6 | 14.6 | 1.27 | 14.8 | 0.11 | 0.37 | 0.26 | 50 |
| 1 | 51 | 11.10 | 11.09 | 33.584 | 25.656 | 233.5 | 0.149 | 4.12 | 66.2 | 14.9 | 1.28 | 15.2 | 0.07 | 0.31 | 0.24 | 51 |

RV DAVID STARR JORDAN CALCOFI CRUISE 8705 STATION 93 28

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 54.8 N | 117 23.7 W | 01/05/87 | 0231 GMT | 600 M | 270 | 10 KT | 270 02 07 | 1 | 1016.5 MB | 18.1 C | 14.0 C | 6/8 | SC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.87 | 16.87 | 33.451 | 24.357 | 356.0 | 0.000 | 5.81 | 104.9 | 2.4 | 0.35 | 0.1 | 0.00 | 0.15 | 0.02 | 0 |
| 1 | 1 | 16.87 | 16.87 | 33.451 | 24.357 | 356.1 | 0.004 | 5.81 | 104.9 | 2.4 | 0.35 | 0.1 | 0.00 | 0.15 | 0.02 | 1 |
| 1 | 10 ISL | 15.88 | 15.88 | 33.400 | 24.545 | 338.4 | 0.035 | 6.04 | 107.0 | 2.0 | 0.35 | 0.1 | 0.00 | 0.17 | 0.02 | 10 |
| 1 | 11 | 15.72 | 15.72 | 33.394 | 24.576 | 335.4 | 0.038 | 6.07 | 107.2 | 2.0 | 0.35 | 0.1 | 0.00 | 0.17 | 0.02 | 11 |
| 1 | 20 ISL | 14.79 | 14.79 | 33.375 | 24.766 | 317.6 | 0.068 | 6.08 | 105.3 | 2.3 | 0.36 | 0.0 | 0.00 | 0.21 | 0.04 | 20 |
| 1 | 21 | 14.70 | 14.70 | 33.374 | 24.784 | 315.9 | 0.071 | 6.08 | 105.2 | 2.3 | 0.36 | 0.0 | 0.00 | 0.22 | 0.05 | 21 |
| 1 | 30 | 14.23 | 14.23 | 33.366 | 24.878 | 307.2 | 0.099 | 6.21 | 106.4 | 2.4 | 0.38 | 0.1 | 0.00 | 0.37 | 0.13 | 30 |
| 1 | 41 | 13.17 | 13.16 | 33.381 | 25.107 | 285.7 | 0.131 | 5.97 | 100.1 | 3.4 | 0.55 | 2.5 | 0.29 | 0.74 | 0.37 | 41 |
| 1 | 50 | 12.21 | 12.20 | 33.445 | 25.344 | 263.4 | 0.156 | 5.02 | 82.5 | 8.2 | 0.89 | 8.5 | 0.13 | 0.41 | 0.34 | 50 |
| 1 | 61 | 11.37 | 11.36 | 33.538 | 25.572 | 241.8 | 0.184 | 4.36 | 70.4 | 12.5 | 1.17 | 13.1 | 0.02 | 0.21 | 0.18 | 61 |
| 1 | 70 | 10.90 | 10.89 | 33.615 | 25.717 | 228.2 | 0.205 | 3.95 | 63.2 | 15.9 | 1.35 | 16.2 | 0.02 | 0.12 | 0.17 | 71 |
| 1 | 75 ISL | 10.64 | 10.63 | 33.669 | 25.805 | 220.0 | 0.216 | 3.77 | 60.0 | 17.7 | 1.45 | 17.6 | 0.02 | 0.09 | 0.15 | 76 |
| 1 | 84 | 10.27 | 10.26 | 33.756 | 25.937 | 207.6 | 0.235 | 3.53 | 55.7 | 20.4 | 1.59 | 19.5 | 0.02 | 0.06 | 0.10 | 85 |
| 1 | 99 | 10.09 | 10.08 | 33.804 | 26.005 | 201.4 | 0.266 | 3.37 | 53.0 | 22.6 | 1.67 | 20.7 | 0.01 | 0.03 | 0.08 | 100 |
| 1 | 100 ISL | 10.08 | 10.07 | 33.808 | 26.010 | 201.0 | 0.268 | 3.35 | 52.7 | 22.7 | 1.67 | 20.8 | 0.01 | 0.03 | 0.08 | 101 |
| 1 | 119 | 9.93 | 9.92 | 33.885 | 26.096 | 193.2 | 0.306 | 3.04 | 47.7 | 24.8 | 1.75 | 22.5 | 0.01 | 0.01 | 0.06 | 120 |
| 1 | 125 ISL | 9.90 | 9.89 | 33.904 | 26.116 | 191.4 | 0.317 | 2.97 | 46.5 | 25.4 | 1.78 | 22.9 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 144 | 9.80 | 9.78 | 33.961 | 26.177 | 186.0 | 0.353 | 2.75 | 43.0 | 27.6 | 1.91 | 24.1 | 0.01 | 0.01 | 0.04 | 145 |
| 1 | 150 ISL | 9.74 | 9.72 | 33.983 | 26.205 | 183.5 | 0.364 | 2.66 | 41.5 | 28.6 | 1.96 | 24.6 | 0.02 | 0.01 | 0.04 | 151 |
| 1 | 173 | 9.46 | 9.44 | 34.063 | 26.314 | 173.5 | 0.405 | 2.33 | 36.2 | 32.4 | 2.12 | 26.4 | 0.05 | 0.00 | 0.06 | 174 |
| 1 | 200 ISL | 9.15 | 9.13 | 34.113 | 26.403 | 165.5 | 0.451 | 2.13 | 32.9 | 35.6 | 2.20 | 27.6 | 0.01 | 0.00 | 0.05 | 202 |
| 1 | 203 | 9.12 | 9.10 | 34.117 | 26.411 | 164.8 | 0.456 | 2.11 | 32.5 | 35.9 | 2.21 | 27.7 | 0.01 | 0.00 | 0.05 | 205 |
| 1 | 231 | 9.01 | 8.98 | 34.159 | 26.462 | 160.5 | 0.501 | 1.91 | 29.4 | 38.1 | 2.29 | 28.5 | 0.01 | 0.00 | 0.23 | 233 |
| 1 | 250 ISL | 8.79 | 8.76 | 34.174 | 26.509 | 156.3 | 0.532 | 1.77 | 27.1 | 41.0 | 2.36 | 29.3 | 0.01 | 0.00 | 0.25 | 252 |
| 1 | 271 | 8.50 | 8.47 | 34.185 | 26.563 | 151.5 | 0.564 | 1.62 | 24.6 | 44.5 | 2.44 | 30.3 | 0.01 | 0.00 | 0.27 | 273 |
| 1 | 300 ISL | 8.20 | 8.17 | 34.201 | 26.621 | 146.4 | 0.607 | 1.42 | 21.4 | 47.8 | 2.54 | 31.5 | 0.00 | 0.00 | 0.30 | 302 |
| 1 | 327 | 7.94 | 7.91 | 34.214 | 26.670 | 142.0 | 0.646 | 1.25 | 18.8 | 50.8 | 2.62 | 32.5 | 0.00 | 0.00 | 0.33 | 330 |
| 1 | 385 | 7.34 | 7.30 | 34.238 | 26.776 | 132.5 | 0.726 | 0.89 | 13.2 | 60.4 | 2.81 | 34.9 | 0.00 | 0.00 | 0.38 | 388 |
| 1 | 400 ISL | 7.17 | 7.13 | 34.246 | 26.807 | 129.8 | 0.745 | 0.80 | 11.8 | 63.0 | 2.86 | 35.6 | 0.00 | 0.00 | 0.40 | 403 |
| 1 | 450 | 6.66 | 6.62 | 34.276 | 26.900 | 121.2 | 0.808 | 0.54 | 7.9 | 70.6 | 3.00 | 37.6 | 0.00 | 0.00 | 0.45 | 454 |
| 1 | 500 ISL | 6.39 | 6.34 | 34.297 | 26.953 | 116.7 | 0.867 | 0.43 | 6.2 | 74.9 | 3.07 | 38.8 | 0.00 | 0.00 | 0.50 | 504 |
| 1 | 517 | 6.30 | 6.25 | 34.304 | 26.970 | 115.3 | 0.887 | 0.39 | 5.6 | 76.3 | 3.10 | 39.2 | 0.00 | 0.00 | 0.52 | 521 |

RV DAVID STARR JORDAN CALCOFI CRUISE 8705 STATION 93 30

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 50.8 N | 117 31.9 W | 01/05/87 | 0603 GMT | 890 M | 290 | 03 KT | | | 1017.5 MB | 16.8 C | 14.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.94 | 16.94 | 33.452 | 24.341 | 357.5 | 0.000 | 5.74 | 103.8 | 1.9 | 0.31 | 0.0 | 0.00 | 0.12 | 0.03 | 0 |
| 1 | 1 | 16.94 | 16.94 | 33.452 | 24.341 | 357.5 | 0.004 | 5.74 | 103.8 | 1.9 | 0.31 | 0.0 | 0.00 | 0.12 | 0.03 | 1 |
| 1 | 10 ISL | 16.45 | 16.45 | 33.435 | 24.442 | 348.1 | 0.035 | 5.81 | 104.1 | 1.9 | 0.31 | 0.0 | 0.00 | 0.13 | 0.02 | 10 |
| 1 | 12 | 16.25 | 16.25 | 33.428 | 24.483 | 344.4 | 0.042 | 5.84 | 104.2 | 1.9 | 0.31 | 0.0 | 0.00 | 0.13 | 0.02 | 12 |
| 1 | 20 ISL | 15.26 | 15.26 | 33.393 | 24.678 | 326.1 | 0.069 | 6.00 | 105.0 | 2.0 | 0.33 | 0.0 | 0.00 | 0.15 | 0.04 | 20 |
| 1 | 21 | 15.13 | 15.13 | 33.389 | 24.703 | 323.7 | 0.072 | 6.02 | 105.0 | 2.0 | 0.33 | 0.0 | 0.00 | 0.15 | 0.04 | 21 |
| 1 | 30 ISL | 14.27 | 14.27 | 33.378 | 24.879 | 307.2 | 0.101 | 6.23 | 106.8 | 2.3 | 0.35 | 0.0 | 0.01 | 0.26 | 0.09 | 30 |
| 1 | 31 | 14.19 | 14.19 | 33.378 | 24.896 | 305.6 | 0.104 | 6.25 | 107.0 | 2.3 | 0.35 | 0.0 | 0.01 | 0.28 | 0.10 | 31 |
| 1 | 42 | 13.72 | 13.71 | 33.376 | 24.992 | 296.7 | 0.137 | 6.22 | 105.4 | 2.5 | 0.39 | 0.5 | 0.06 | 0.54 | 0.19 | 42 |
| 1 | 50 ISL | 12.99 | 12.98 | 33.418 | 25.171 | 279.8 | 0.160 | 5.56 | 92.9 | 5.2 | 0.65 | 4.6 | 0.32 | 0.61 | 0.37 | 50 |
| 1 | 52 | 12.78 | 12.77 | 33.433 | 25.224 | 274.8 | 0.166 | 5.36 | 89.1 | 6.0 | 0.72 | 5.8 | 0.37 | 0.63 | 0.41 | 52 |
| 1 | 62 | 11.89 | 11.88 | 33.517 | 25.460 | 252.6 | 0.192 | 4.69 | 76.6 | 9.9 | 0.99 | 10.5 | 0.04 | 0.39 | 0.28 | 62 |
| 1 | 71 | 11.50 | 11.49 | 33.534 | 25.545 | 244.6 | 0.214 | 4.40 | 71.2 | 12.0 | 1.13 | 12.6 | 0.03 | 0.25 | 0.23 | 72 |
| 1 | 75 ISL | 11.29 | 11.28 | 33.555 | 25.600 | 239.5 | 0.224 | 4.26 | 68.7 | 13.1 | 1.19 | 13.7 | 0.03 | 0.20 | 0.21 | 76 |
| 1 | 85 | 10.76 | 10.75 | 33.630 | 25.753 | 225.0 | 0.247 | 3.90 | 62.2 | 16.1 | 1.36 | 16.6 | 0.02 | 0.10 | 0.18 | 86 |
| 1 | 100 | 10.21 | 10.20 | 33.765 | 25.954 | 206.3 | 0.280 | 3.33 | 52.5 | 21.4 | 1.61 | 20.2 | 0.03 | 0.07 | 0.13 | 101 |
| 1 | 119 | 9.94 | 9.93 | 33.849 | 26.066 | 196.0 | 0.318 | 3.00 | 47.0 | 25.1 | 1.72 | 22.2 | 0.03 | 0.04 | 0.12 | 120 |
| 1 | 125 ISL | 9.89 | 9.88 | 33.866 | 26.088 | 194.0 | 0.329 | 2.96 | 46.4 | 25.6 | 1.75 | 22.5 | 0.03 | 0.03 | 0.1 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 40.8 N | 117 52.5 W | 01/05/87 | 0932 GMT | 585 M | 280 | 02 KT | | | 1018.7 MB | 16.0 C | 13.7 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEC C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | UG/L | D.BAR | |
| 1 | 0 ISL | 16.52 | 16.52 | 33.415 | 24.411 | 350.9 | 0.000 | 5.85 | 104.9 | 1.6 | 0.32 | 0.0 | 0.00 | 0.13 | 0.02 | 0 |
| 1 | 1 | 16.52 | 16.52 | 33.415 | 24.411 | 350.9 | 0.004 | 5.85 | 104.9 | 1.6 | 0.32 | 0.0 | 0.00 | 0.13 | 0.02 | 1 |
| 1 | 10 ISL | 16.51 | 16.51 | 33.414 | 24.413 | 351.0 | 0.035 | 5.93 | 106.3 | 1.5 | 0.33 | 0.0 | 0.00 | 0.13 | 0.02 | 10 |
| 1 | 11 | 16.51 | 16.51 | 33.414 | 24.413 | 351.0 | 0.039 | 5.94 | 106.5 | 1.5 | 0.33 | 0.0 | 0.00 | 0.13 | 0.02 | 11 |
| 1 | 20 | 15.45 | 15.45 | 33.364 | 24.614 | 332.2 | 0.069 | 6.03 | 105.9 | 1.6 | 0.34 | 0.0 | 0.00 | 0.14 | 0.03 | 20 |
| 1 | 30 | 14.93 | 14.93 | 33.357 | 24.722 | 322.1 | 0.102 | 6.24 | 108.4 | 1.7 | 0.34 | 0.0 | 0.00 | 0.17 | 0.05 | 30 |
| 1 | 40 | 14.31 | 14.30 | 33.352 | 24.851 | 310.1 | 0.134 | 6.28 | 107.7 | 1.7 | 0.35 | 0.0 | 0.00 | 0.25 | 0.08 | 40 |
| 1 | 50 | 13.50 | 13.49 | 33.391 | 25.048 | 291.6 | 0.164 | 6.02 | 101.6 | 3.0 | 0.47 | 1.6 | 0.14 | 0.71 | 0.27 | 50 |
| 1 | 60 | 12.53 | 12.52 | 33.450 | 25.286 | 269.1 | 0.192 | 5.02 | 83.1 | 6.8 | 0.81 | 7.4 | 0.18 | 0.55 | 0.33 | 60 |
| 1 | 70 | 11.84 | 11.83 | 33.504 | 25.459 | 252.8 | 0.218 | 4.55 | 74.2 | 9.8 | 1.03 | 11.2 | 0.06 | 0.38 | 0.26 | 71 |
| 1 | 75 ISL | 11.55 | 11.54 | 33.536 | 25.538 | 245.4 | 0.230 | 4.37 | 70.8 | 11.3 | 1.13 | 12.7 | 0.05 | 0.31 | 0.24 | 76 |
| 1 | 85 | 11.08 | 11.07 | 33.603 | 25.676 | 232.5 | 0.254 | 4.07 | 65.3 | 14.0 | 1.29 | 15.2 | 0.03 | 0.21 | 0.22 | 86 |
| 1 | 100 | 10.57 | 10.56 | 33.694 | 25.837 | 217.5 | 0.288 | 3.71 | 58.9 | 17.3 | 1.45 | 17.9 | 0.02 | 0.11 | 0.15 | 101 |
| 1 | 119 | 10.05 | 10.04 | 33.807 | 26.015 | 200.9 | 0.328 | 3.20 | 50.3 | 22.3 | 1.67 | 21.2 | 0.01 | 0.04 | 0.10 | 120 |
| 1 | 125 ISL | 9.94 | 9.93 | 33.838 | 26.057 | 196.9 | 0.340 | 3.11 | 48.7 | 23.4 | 1.72 | 21.9 | 0.01 | 0.03 | 0.09 | 126 |
| 1 | 144 | 9.62 | 9.60 | 33.920 | 26.175 | 186.1 | 0.376 | 2.93 | 45.6 | 26.5 | 1.83 | 23.6 | 0.01 | 0.01 | 0.08 | 145 |
| 1 | 150 ISL | 9.46 | 9.44 | 33.938 | 26.215 | 182.4 | 0.387 | 2.91 | 45.2 | 27.5 | 1.85 | 24.1 | 0.01 | 0.01 | 0.07 | 151 |
| 1 | 174 | 8.84 | 8.82 | 33.997 | 26.361 | 168.8 | 0.429 | 2.85 | 43.6 | 31.4 | 1.94 | 25.7 | 0.01 | 0.00 | 0.03 | 175 |
| 1 | 200 ISL | 8.54 | 8.52 | 34.049 | 26.449 | 161.0 | 0.472 | 2.57 | 39.1 | 35.4 | 2.07 | 27.4 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 204 | 8.51 | 8.49 | 34.056 | 26.459 | 160.1 | 0.479 | 2.51 | 38.1 | 36.0 | 2.09 | 27.7 | 0.01 | 0.00 | 0.03 | 206 |
| 1 | 232 | 8.22 | 8.20 | 34.110 | 26.546 | 152.2 | 0.522 | 2.04 | 30.8 | 40.8 | 2.29 | 29.7 | 0.01 | | | 234 |
| 1 | 250 ISL | 8.04 | 8.01 | 34.133 | 26.591 | 148.2 | 0.549 | 1.80 | 27.1 | 43.6 | 2.39 | 30.8 | 0.01 | | | 252 |
| 1 | 271 | 7.85 | 7.82 | 34.153 | 26.635 | 144.3 | 0.580 | 1.57 | 23.5 | 46.6 | 2.48 | 31.9 | 0.01 | | | 273 |
| 1 | 300 ISL | 7.65 | 7.62 | 34.179 | 26.685 | 140.0 | 0.621 | 1.33 | 19.8 | 50.4 | 2.59 | 33.1 | 0.00 | | | 302 |
| 1 | 324 | 7.49 | 7.46 | 34.199 | 26.724 | 136.6 | 0.654 | 1.15 | 17.1 | 53.6 | 2.68 | 34.0 | 0.00 | | | 327 |
| 1 | 383 | 6.96 | 6.92 | 34.255 | 26.842 | 126.0 | 0.732 | 0.66 | 9.7 | 63.5 | 2.90 | 36.5 | 0.00 | | | 386 |
| 1 | 400 ISL | 6.81 | 6.77 | 34.268 | 26.873 | 123.2 | 0.753 | 0.57 | 8.3 | 66.7 | 2.94 | 37.1 | 0.00 | | | 403 |
| 1 | 448 | 6.44 | 6.40 | 34.298 | 26.947 | 116.6 | 0.811 | 0.41 | 5.9 | 74.7 | 3.04 | 38.4 | 0.00 | | | 452 |
| 1 | 500 ISL | 6.15 | 6.11 | 34.320 | 27.002 | 111.9 | 0.870 | 0.33 | 4.8 | 79.4 | 3.11 | 39.4 | 0.00 | | | 504 |
| 1 | 517 | 6.06 | 6.01 | 34.328 | 27.020 | 110.3 | 0.889 | 0.30 | 4.3 | 81.0 | 3.13 | 39.7 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 40

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 32 30.7 N | 118 12.8 W | 01/05/87 | 1242 GMT | 1668 M | 300 | 18 KT | 280 | 03 07 | 1 | 1017.1 MB | 14.9 C | 12.1 C | 1/8 | ST | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEC C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | UG/L | D.BAR | |
| 1 | 0 | 16.15 | 16.15 | 33.402 | 24.485 | 343.8 | 0.000 | 5.84 | 104.0 | 1.9 | 0.32 | 0.0 | 0.00 | 0.15 | 0.03 | 0 |
| 1 | 10 | 16.15 | 16.15 | 33.397 | 24.482 | 344.4 | 0.034 | 5.91 | 105.2 | 2.0 | 0.32 | 0.0 | 0.00 | 0.12 | 0.09 | 10 |
| 1 | 20 | 14.99 | 14.99 | 33.387 | 24.732 | 320.9 | 0.068 | 6.09 | 106.0 | 2.0 | 0.32 | 0.0 | 0.00 | 0.16 | 0.04 | 20 |
| 1 | 29 | 14.49 | 14.49 | 33.391 | 24.843 | 310.6 | 0.096 | 6.24 | 107.5 | 2.3 | 0.32 | 0.0 | 0.00 | 0.22 | 0.08 | 29 |
| 1 | 30 ISL | 14.42 | 14.42 | 33.392 | 24.858 | 309.1 | 0.099 | 6.23 | 107.2 | 2.3 | 0.32 | 0.2 | 0.02 | 0.25 | 0.09 | 30 |
| 1 | 40 | 13.54 | 13.53 | 33.408 | 25.053 | 290.8 | 0.129 | 5.88 | 99.3 | 3.8 | 0.46 | 1.7 | 0.23 | 0.47 | 0.20 | 40 |
| 1 | 49 | 12.47 | 12.46 | 33.429 | 25.281 | 269.3 | 0.154 | 5.12 | 84.6 | 7.4 | 0.79 | 7.1 | 0.32 | 0.40 | 0.34 | 49 |
| 1 | 50 ISL | 12.35 | 12.34 | 33.435 | 25.309 | 266.6 | 0.157 | 5.05 | 83.2 | 7.8 | 0.82 | 7.7 | 0.30 | 0.38 | 0.34 | 50 |
| 1 | 60 | 11.40 | 11.39 | 33.507 | 25.543 | 244.6 | 0.183 | 4.53 | 73.2 | 11.5 | 1.08 | 12.2 | 0.05 | 0.24 | 0.24 | 60 |
| 1 | 70 | 11.16 | 11.15 | 33.554 | 25.623 | 237.2 | 0.207 | 4.38 | 70.4 | 12.7 | 1.16 | 13.5 | 0.04 | 0.19 | 0.18 | 71 |
| 1 | 75 ISL | 11.03 | 11.02 | 33.581 | 25.667 | 233.1 | 0.218 | 4.29 | 68.8 | 13.5 | 1.21 | 14.3 | 0.03 | 0.16 | 0.16 | 76 |
| 1 | 84 | 10.78 | 10.77 | 33.631 | 25.751 | 225.3 | 0.239 | 4.10 | 65.4 | 15.2 | 1.30 | 15.9 | 0.02 | 0.11 | 0.13 | 85 |
| 1 | 99 | 10.28 | 10.27 | 33.714 | 25.903 | 211.2 | 0.272 | 3.75 | 59.2 | 19.0 | 1.49 | 18.8 | 0.01 | 0.04 | 0.07 | 100 |
| 1 | 100 ISL | 10.25 | 10.24 | 33.719 | 25.911 | 210.3 | 0.274 | 3.73 | 58.8 | 19.2 | 1.50 | 18.9 | 0.01 | 0.04 | 0.07 | 101 |
| 1 | 119 | 9.77 | 9.76 | 33.811 | 26.065 | 196.1 | 0.313 | 3.41 | 53.2 | 23.2 | 1.64 | 21.4 | 0.01 | 0.01 | 0.05 | 120 |
| 1 | 125 ISL | 9.65 | 9.64 | 33.840 | 26.107 | 192.1 | 0.324 | 3.30 | 51.4 | 24.6 | 1.69 | 22.2 | 0.01 | 0.01 | 0.05 | 126 |
| 1 | 143 | 9.32 | 9.30 | 33.919 | 26.223 | 181.5 | 0.358 | 2.99 | 46.2 | 28.9 | 1.85 | 24.3 | 0.01 | 0.00 | 0.04 | 144 |
| 1 | 150 ISL | 9.17 | 9.15 | 33.943 | 26.266 | 177.5 | 0.370 | 2.91 | 44.9 | 30.4 | 1.89 | 25.0 | 0.01 | 0.00 | 0.04 | 151 |
| 1 | 173 | 8.73 | 8.71 | 34.009 | 26.388 | 166.3 | 0.410 | 2.68 | 40.9 | 34.7 | 2.01 | 26.8 | 0.01 | 0.00 | 0.03 | 174 |
| 1 | 200 ISL | 8.39 | 8.37 | 34.065 | 26.484 | 157.5 | 0.454 | 2.36 | 35.8 | 39.2 | 2.15 | 28.6 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 203 | 8.36 | 8.34 | 34.069 | 26.492 | 156.8 | 0.458 | 2.33 | 35.3 | 39.7 | 2.17 | 28.8 | 0.01 | 0.00 | 0.03 | 205 |
| 1 | 231 | 8.10 | 8.08 | 34.094 | 26.551 | 151.6 | 0.502 | 2.06 | 31.0 | 43.4 | 2.28 | 30.2 | 0.01 | | | 233 |
| 1 | 250 ISL | 7.93 | 7.93 | 34.119 | 26.592 | 148.1 | 0.530 | 1.80 | 27.0 | 46.1 | 2.39 | 31.2 | 0.01 | | | 252 |
| 1 | 271 | 7.80 | 7.77 | 34.148 | 26.638 | 143.9 | 0.561 | 1.51 | 22.6 | 49.4 | 2.51 | 32.4 | 0.01 | | | 273 |
| 1 | 300 ISL | 7.47 | 7.44 | 34.175 | 26.707 | 137.7 | 0.601 | 1.20 | 17.8 | 54.9 | 2.65 | 34.0 | 0.00 | | | 302 |
| 1 | 326 | 7.20 | 7.17 | 34.196 | 26.762 | 132.8 | 0.637 | 0.98 | 14.5 | 59.5 | 2.75 | 35.3 | 0.00 | | | 329 |
| 1 | 385 | 6.97 | 6.93 | 34.247 | 26.835 | 126.7 | 0.713 | 0.68 | 10.0 | 64.8 | 2.90 | 36.6 | 0.01 | | | 388 |
| 1 | 400 ISL | 6.89 | 6.85 | 34.256 | 26.853 | 125.1 | 0.732 | 0.62 | 9.1 | 66.2 | 2.93 | 36.9 | 0.01 | | | 403 |
| 1 | 449 | 6.58 | 6.54 | 34.280 | 26.914 | 119.8 | 0.792 | 0.45 | 6.5 | 71.4 | 3.01 | 37.9 | 0.00 | | | 453 |
| 1 | 500 ISL | 6.23 | 6.19 | 34.307 | 26.981 | 113.9 | 0.852 | 0.34 | 4.9 | 77.8 | 3.10 | 39.2 | 0.00 | | | 504 |
| 1 | 519 | 6.10 | 6.05 | 34.318 | 27.007 | 111.6 | 0.873 | 0.30 | 4.3 | 80.2 | 3.13 | 39.7 | 0.00 | | | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 A5

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 20.8 N | 118 33.3 W | 01/05/87 | 1559 GMT | 1297 M | 350 | 20 KT | 290 04 08 | 1 | 1018.1 MB | 16.1 C | 13.8 C | 2/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | NO2 | CHL-A | PHAEO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.78 | 14.78 | 33.400 | 24.787 | 315.1 | 0.000 | 6.25 | 108.3 | 2.5 | 0.37 | 0.3 | 0.02 | 0.63 | 0.17 | 0 |
| 10 | ISL | 14.75 | 14.75 | 33.398 | 24.792 | 314.8 | 0.031 | 6.29 | 108.9 | 2.8 | 0.37 | 0.3 | 0.02 | 0.63 | 0.14 | 10 |
| 1 | 12 | 14.74 | 14.74 | 33.398 | 24.794 | 314.7 | 0.038 | 6.30 | 109.1 | 2.9 | 0.37 | 0.3 | 0.02 | 0.63 | 0.14 | 12 |
| 1 | 20 | 14.03 | 14.03 | 33.392 | 24.940 | 301.1 | 0.062 | 6.30 | 107.5 | 2.7 | 0.46 | 1.4 | 0.05 | 0.69 | 0.21 | 20 |
| 30 | ISL | 12.63 | 12.63 | 33.395 | 25.223 | 274.3 | 0.091 | 5.77 | 95.6 | 4.8 | 0.71 | 5.1 | 0.22 | 1.00 | 0.35 | 30 |
| 1 | 31 | 12.50 | 12.50 | 33.398 | 25.251 | 271.7 | 0.094 | 5.71 | 94.4 | 5.1 | 0.74 | 5.5 | 0.24 | 1.02 | 0.36 | 31 |
| 1 | 41 | 12.03 | 12.02 | 33.456 | 25.386 | 259.1 | 0.120 | 5.41 | 88.6 | 7.4 | 0.90 | 8.1 | 0.27 | 0.67 | 0.30 | 41 |
| 50 | ISL | 11.66 | 11.65 | 33.486 | 25.478 | 250.5 | 0.143 | 5.13 | 83.3 | 9.3 | 1.05 | 10.5 | 0.25 | 0.40 | 0.22 | 50 |
| 1 | 51 | 11.61 | 11.60 | 33.489 | 25.490 | 249.4 | 0.146 | 5.09 | 82.6 | 9.5 | 1.07 | 10.8 | 0.25 | 0.37 | 0.21 | 51 |
| 1 | 61 | 10.98 | 10.97 | 33.531 | 25.637 | 235.6 | 0.170 | 4.48 | 71.7 | 13.2 | 1.27 | 14.4 | 0.24 | 0.17 | 0.16 | 61 |
| 1 | 72 | 10.92 | 10.91 | 33.572 | 25.680 | 231.8 | 0.196 | 4.33 | 69.3 | 14.4 | 1.32 | 15.2 | 0.28 | 0.14 | 0.14 | 73 |
| 75 | ISL | 10.76 | 10.75 | 33.608 | 25.736 | 226.5 | 0.203 | 4.13 | 65.8 | 16.1 | 1.39 | 16.4 | 0.26 | 0.15 | 0.14 | 76 |
| 1 | 87 | 10.07 | 10.06 | 33.755 | 25.970 | 204.4 | 0.229 | 3.33 | .52.3 | 22.9 | 1.69 | 21.2 | 0.14 | 0.18 | 0.15 | 88 |
| 100 | ISL | 9.87 | 9.86 | 33.785 | 26.027 | 199.3 | 0.255 | 3.22 | 50.4 | 23.6 | 1.72 | 22.1 | 0.08 | 0.10 | 0.17 | 101 |
| 1 | 102 | 9.86 | 9.85 | 33.786 | 26.030 | 199.1 | 0.259 | 3.20 | 50.1 | 23.7 | 1.73 | 22.2 | 0.07 | 0.09 | 0.17 | 103 |
| 1 | 122 | 9.37 | 9.36 | 33.904 | 26.203 | 182.9 | 0.297 | 2.72 | 42.1 | 28.7 | 1.91 | 25.0 | 0.05 | 0.05 | 0.15 | 123 |
| 125 | ISL | 9.33 | 9.32 | 33.913 | 26.217 | 181.7 | 0.302 | 2.69 | 41.6 | 29.2 | 1.93 | 25.2 | 0.05 | 0.04 | 0.18 | 126 |
| 1 | 146 | 9.11 | 9.09 | 33.958 | 26.287 | 175.4 | 0.340 | 2.56 | 39.4 | 31.7 | 2.04 | 26.1 | 0.03 | 0.02 | 0.34 | 147 |
| 150 | ISL | 9.04 | 9.02 | 33.967 | 26.306 | 173.7 | 0.347 | 2.54 | 39.0 | 32.3 | 2.06 | 26.3 | 0.03 | 0.02 | 0.32 | 151 |
| 1 | 176 | 8.62 | 8.60 | 34.021 | 26.414 | 163.8 | 0.391 | 2.40 | 36.6 | 36.0 | 2.17 | 27.9 | 0.01 | 0.02 | 0.10 | 177 |
| 200 | ISL | 8.36 | 8.34 | 34.065 | 26.489 | 157.1 | 0.429 | 2.17 | 32.9 | 39.4 | 2.28 | 29.3 | 0.02 | 0.02 | 0.10 | 202 |
| 1 | 205 | 8.31 | 8.29 | 34.073 | 26.503 | 155.8 | 0.437 | 2.11 | 31.9 | 40.3 | 2.31 | 29.6 | 0.02 | 0.02 | 0.10 | 207 |
| 1 | 233 | 7.86 | 7.84 | 34.116 | 26.604 | 146.6 | 0.479 | 1.73 | 25.9 | 47.3 | 2.49 | 31.8 | 0.01 | | | 235 |
| 250 | ISL | 7.71 | 7.69 | 34.136 | 26.642 | 143.2 | 0.504 | 1.54 | 23.0 | 50.0 | 2.57 | 32.6 | 0.01 | | | 252 |
| 1 | 272 | 7.58 | 7.55 | 34.157 | 26.677 | 140.1 | 0.535 | 1.33 | 19.8 | 52.5 | 2.66 | 33.4 | 0.01 | | | 274 |
| 300 | ISL | 7.46 | 7.43 | 34.175 | 26.709 | 137.6 | 0.574 | 1.17 | 17.4 | 54.8 | 2.73 | 34.1 | 0.00 | | | 302 |
| 1 | 326 | 7.35 | 7.32 | 34.188 | 26.735 | 135.5 | 0.610 | 1.06 | 15.7 | 56.9 | 2.77 | 34.7 | 0.00 | | | 329 |
| 1 | 385 | 6.92 | 6.88 | 34.230 | 26.828 | 127.2 | 0.687 | 0.71 | 10.4 | 65.0 | 2.89 | 36.7 | 0.00 | | | 388 |
| 400 | ISL | 6.83 | 6.79 | 34.244 | 26.852 | 125.2 | 0.706 | 0.62 | 9.1 | 67.0 | 2.93 | 37.1 | 0.00 | | | 403 |
| 1 | 449 | 6.51 | 6.47 | 34.287 | 26.929 | 118.4 | 0.766 | 0.40 | 5.8 | 73.5 | 3.05 | 38.2 | 0.00 | | | 453 |
| 500 | ISL | 6.11 | 6.07 | 34.301 | 26.992 | 112.7 | 0.825 | 0.33 | 4.7 | 80.1 | 3.10 | 39.6 | 0.00 | | | 504 |
| 1 | 520 | 5.95 | 5.90 | 34.307 | 27.017 | 110.5 | 0.847 | 0.30 | 4.3 | 82.7 | 3.12 | 40.1 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSINGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 10.8 N | 118 53.5 W | 01/05/87 | 2022 GMT | 1371 M | 310 | 20 KT | 300 06 07 | 1 | 1019.0 MB | 17.0 C | 14.3 C | 1/8 | CU | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | NO2 | CHL-A | PHAEO | PRESS |
| M | DEG C | DEG C | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 14.60 | 14.60 | 33.353 | 24.789 | 314.9 | 0.000 | 6.11 | 105.5 | 1.9 | 0.39 | 0.4 | 0.03 | 0.40 | 0.12 | 0 |
| 1 | 1 | 14.60 | 14.60 | 33.353 | 24.789 | 314.9 | 0.003 | 6.11 | 105.5 | 1.9 | 0.39 | 0.4 | 0.03 | 0.40 | 0.12 | 1 |
| 1 | 10 | 14.57 | 14.57 | 33.352 | 24.795 | 314.6 | 0.031 | 6.17 | 106.4 | 2.3 | 0.39 | 0.4 | 0.03 | 0.34 | 0.09 | 10 |
| 1 | 20 | 14.37 | 14.37 | 33.356 | 24.841 | 310.5 | 0.063 | 6.16 | 105.8 | 2.1 | 0.41 | 0.6 | 0.04 | 0.47 | 0.13 | 20 |
| 1 | 30 | 13.98 | 13.98 | 33.369 | 24.932 | 302.0 | 0.093 | 6.21 | 105.8 | 2.7 | 0.47 | 1.2 | 0.07 | 0.51 | 0.20 | 30 |
| 1 | 41 | 13.26 | 13.25 | 33.347 | 25.062 | 289.9 | 0.126 | 5.87 | 98.6 | 3.2 | 0.57 | 2.5 | 0.29 | 0.35 | 0.19 | 41 |
| 50 | ISL | 12.84 | 12.83 | 33.339 | 25.140 | 282.8 | 0.152 | 5.64 | 93.9 | 4.5 | 0.67 | 4.4 | 0.32 | 0.31 | 0.20 | 50 |
| 1 | 51 | 12.80 | 12.79 | 33.342 | 25.150 | 281.9 | 0.155 | 5.62 | 93.5 | 4.7 | 0.68 | 4.6 | 0.32 | 0.31 | 0.20 | 51 |
| 1 | 60 | 12.60 | 12.59 | 33.459 | 25.280 | 269.8 | 0.179 | 5.64 | 93.5 | 5.9 | 0.76 | 5.6 | 0.28 | 0.30 | 0.18 | 60 |
| 1 | 69 | 12.20 | 12.19 | 33.461 | 25.358 | 262.4 | 0.203 | 5.39 | 88.6 | 6.6 | 0.88 | 7.6 | 0.21 | 0.32 | 0.21 | 70 |
| 75 | ISL | 11.90 | 11.89 | 33.487 | 25.435 | 255.3 | 0.219 | 5.19 | 84.7 | 8.0 | 0.98 | 9.2 | 0.22 | 0.32 | 0.20 | 76 |
| 1 | 84 | 11.50 | 11.49 | 33.530 | 25.543 | 245.2 | 0.241 | 4.90 | 79.3 | 10.3 | 1.11 | 11.4 | 0.23 | 0.31 | 0.19 | 85 |
| 1 | 99 | 11.13 | 11.12 | 33.540 | 25.618 | 238.3 | 0.278 | 4.58 | 73.6 | 12.6 | 1.23 | 13.7 | 0.25 | 0.19 | 0.16 | 100 |
| 100 | ISL | 11.12 | 11.11 | 33.544 | 25.623 | 237.9 | 0.280 | 4.56 | 73.2 | 12.8 | 1.24 | 13.8 | 0.26 | 0.20 | 0.16 | 101 |
| 1 | 118 | 10.93 | 10.92 | 33.630 | 25.724 | 228.7 | 0.322 | 4.23 | 67.7 | 15.9 | 1.35 | 15.7 | 0.34 | 0.31 | 0.15 | 119 |
| 125 | ISL | 10.73 | 10.72 | 33.655 | 25.779 | 223.6 | 0.338 | 4.04 | 64.4 | 17.2 | 1.42 | 16.9 | 0.31 | 0.26 | 0.18 | 126 |
| 1 | 142 | 10.18 | 10.16 | 33.716 | 25.922 | 210.2 | 0.375 | 3.55 | 55.9 | 20.4 | 1.61 | 20.1 | 0.19 | 0.08 | 0.24 | 143 |
| 150 | ISL | 9.99 | 9.97 | 33.753 | 25.983 | 204.6 | 0.391 | 3.36 | 52.7 | 22.1 | 1.68 | 21.3 | 0.14 | 0.07 | 0.23 | 151 |
| 1 | 171 | 9.52 | 9.50 | 33.859 | 26.144 | 189.6 | 0.433 | 2.91 | 45.2 | 26.8 | 1.86 | 23.9 | 0.04 | 0.05 | 0.21 | 172 |
| 200 | ISL | 8.81 | 8.79 | 34.008 | 26.375 | 168.1 | 0.485 | 2.44 | 37.3 | 34.1 | 2.10 | 27.2 | 0.03 | 0.04 | 0.14 | 202 |
| 1 | 202 | 8.76 | 8.74 | 34.017 | 26.390 | 166.7 | 0.488 | 2.41 | 36.8 | 34.6 | 2.12 | 27.4 | 0.03 | 0.04 | 0.14 | 204 |
| 1 | 230 | 8.25 | 8.23 | 34.096 | 26.530 | 153.7 | 0.533 | 2.01 | 30.4 | 41.2 | 2.31 | 29.8 | 0.03 | | | 232 |
| 250 | ISL | 7.98 | 7.95 | 34.123 | 26.592 | 148.1 | 0.563 | 1.80 | 27.0 | 44.8 | 2.40 | 31.1 | 0.02 | | | 252 |
| 1 | 268 | 7.79 | 7.76 | 34.137 | 26.631 | 144.6 | 0.589 | 1.63 | 24.4 | 47.7 | 2.47 | 32.0 | 0.01 | | | 270 |
| 300 | ISL | 7.49 | 7.46 | 34.172 | 26.702 | 138.2 | 0.634 | 1.30 | 19.3 | 52.7 | 2.61 | 33.6 | 0.01 | | | 302 |
| 1 | 323 | 7.32 | 7.29 | 34.197 | 26.746 | 134.3 | 0.666 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|-------------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 32 0.7 N | 119 14.0 W | 01/05/87 | 2357 GMT | 1668 M | 300 | 20 KT | 310 06 | 05 | 1 | 1017.9 MB | 16.5 C | 14.0 C | 2/8 | C1 | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.14 | 15.14 | 33.320 | 24.647 | 328.4 | 0.000 | 6.00 | 104.7 | 2.7 | 0.34 | 0.1 | 0.00 | 0.20 | 0.05 | 0 |
| 1 | 9 | 15.15 | 15.15 | 33.317 | 24.643 | 329.0 | 0.030 | 6.07 | 105.9 | 2.7 | 0.35 | 0.1 | 0.00 | 0.20 | 0.05 | 9 |
| 1 | 10 ISL | 15.13 | 15.13 | 33.318 | 24.648 | 328.5 | 0.033 | 6.07 | 105.9 | 2.7 | 0.35 | 0.1 | 0.00 | 0.20 | 0.05 | 10 |
| 1 | 19 | 14.98 | 14.98 | 33.327 | 24.688 | 325.0 | 0.062 | 6.09 | 105.9 | 2.7 | 0.35 | 0.1 | 0.00 | 0.23 | 0.07 | 19 |
| 1 | 20 ISL | 14.88 | 14.88 | 33.330 | 24.712 | 322.8 | 0.066 | 6.10 | 105.9 | 2.8 | 0.36 | 0.2 | 0.00 | 0.27 | 0.08 | 20 |
| 1 | 30 | 13.82 | 13.82 | 33.357 | 24.956 | 299.8 | 0.097 | 6.18 | 105.0 | 3.4 | 0.44 | 1.2 | 0.07 | 0.65 | 0.24 | 30 |
| 1 | 40 | 13.42 | 13.41 | 33.363 | 25.042 | 291.8 | 0.126 | 6.05 | 101.9 | 3.6 | 0.51 | 2.1 | 0.13 | 0.64 | 0.31 | 40 |
| 1 | 50 | 12.91 | 12.90 | 33.363 | 25.144 | 282.4 | 0.155 | 5.75 | 95.8 | 4.6 | 0.64 | 3.9 | 0.30 | 0.56 | 0.26 | 50 |
| 1 | 61 | 12.59 | 12.58 | 33.385 | 25.224 | 275.0 | 0.186 | 5.57 | 92.2 | 5.7 | 0.74 | 5.6 | 0.39 | 0.40 | 0.22 | 61 |
| 1 | 71 | 12.37 | 12.36 | 33.386 | 25.268 | 271.1 | 0.213 | 5.40 | 89.0 | 6.6 | 0.80 | 6.9 | 0.34 | 0.29 | 0.23 | 72 |
| 1 | 75 ISL | 12.31 | 12.30 | 33.389 | 25.281 | 269.9 | 0.224 | 5.35 | 88.1 | 6.9 | 0.82 | 7.4 | 0.33 | 0.26 | 0.22 | 76 |
| 1 | 86 | 12.00 | 11.99 | 33.410 | 25.357 | 263.0 | 0.253 | 5.14 | 84.1 | 8.3 | 0.91 | 9.2 | 0.27 | 0.21 | 0.17 | 87 |
| 1 | 100 | 11.04 | 11.03 | 33.476 | 25.584 | 241.5 | 0.288 | 4.57 | 73.2 | 12.3 | 1.14 | 13.8 | 0.06 | 0.12 | 0.14 | 101 |
| 1 | 120 | 10.18 | 10.17 | 33.645 | 25.866 | 215.0 | 0.334 | 4.01 | 63.1 | 17.8 | 1.40 | 18.4 | 0.02 | 0.04 | 0.09 | 121 |
| 1 | 125 ISL | 10.05 | 10.04 | 33.679 | 25.915 | 210.5 | 0.345 | 3.86 | 60.6 | 19.2 | 1.46 | 19.4 | 0.02 | 0.03 | 0.08 | 126 |
| 1 | 145 | 9.61 | 9.59 | 33.792 | 26.077 | 195.5 | 0.385 | 3.34 | 52.0 | 24.5 | 1.68 | 23.0 | 0.01 | 0.01 | 0.05 | 146 |
| 1 | 150 ISL | 9.48 | 9.46 | 33.817 | 26.118 | 191.7 | 0.395 | 3.26 | 50.6 | 25.6 | 1.72 | 23.7 | 0.01 | 0.01 | 0.05 | 151 |
| 1 | 175 | 8.87 | 8.85 | 33.924 | 26.299 | 174.7 | 0.441 | 2.94 | 45.0 | 31.0 | 1.89 | 26.6 | 0.01 | 0.02 | 0.06 | 176 |
| 1 | 200 ISL | 8.43 | 8.41 | 34.009 | 26.434 | 162.3 | 0.483 | 2.59 | 39.3 | 36.7 | 2.06 | 28.8 | 0.01 | 0.02 | 0.07 | 202 |
| 1 | 204 | 8.37 | 8.35 | 34.020 | 26.452 | 160.6 | 0.489 | 2.54 | 38.5 | 37.6 | 2.09 | 29.1 | 0.01 | 0.02 | 0.07 | 206 |
| 1 | 232 | 8.04 | 8.02 | 34.077 | 26.547 | 152.0 | 0.533 | 2.19 | 32.9 | 42.9 | 2.22 | 31.0 | 0.01 | | | 234 |
| 1 | 250 ISL | 7.86 | 7.84 | 34.104 | 26.594 | 147.7 | 0.560 | 1.94 | 29.1 | 46.3 | 2.32 | 32.1 | 0.01 | | | 252 |
| 1 | 272 | 7.66 | 7.63 | 34.131 | 26.645 | 143.2 | 0.592 | 1.64 | 24.4 | 50.3 | 2.44 | 33.3 | 0.01 | | | 274 |
| 1 | 300 ISL | 7.43 | 7.40 | 34.159 | 26.700 | 138.3 | 0.631 | 1.35 | 20.0 | 54.9 | 2.57 | 34.7 | 0.01 | | | 302 |
| 1 | 325 | 7.25 | 7.22 | 34.182 | 26.744 | 134.5 | 0.666 | 1.13 | 16.7 | 58.7 | 2.68 | 35.9 | 0.01 | | | 328 |
| 1 | 380 | 6.87 | 6.83 | 34.244 | 26.846 | 125.5 | 0.737 | 0.70 | 10.3 | 66.4 | 2.88 | 38.0 | 0.00 | | | 383 |
| 1 | 400 ISL | 6.75 | 6.71 | 34.255 | 26.871 | 123.3 | 0.762 | 0.61 | 8.9 | 68.5 | 2.92 | 38.5 | 0.00 | | | 403 |
| 1 | 446 | 6.48 | 6.44 | 34.274 | 26.922 | 118.9 | 0.818 | 0.48 | 7.0 | 72.9 | 2.98 | 39.5 | 0.00 | | | 450 |
| 1 | 500 ISL | 6.17 | 6.13 | 34.305 | 26.988 | 113.2 | 0.880 | 0.36 | 5.2 | 79.0 | 3.06 | 40.6 | 0.00 | | | 504 |
| 1 | 520 | 6.06 | 6.01 | 34.316 | 27.010 | 111.2 | 0.903 | 0.32 | 4.6 | 81.3 | 3.09 | 41.0 | 0.00 | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|-------------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|--------|-------|
| 31 50.9 N | 119 34.3 W | 02/05/87 | 0319 GMT | 2601 M | 310 | 23 KT | 310 06 | 06 | 1 | 1018.0 MB | 15.1 C | 13.0 C | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA THETA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 15.56 | 15.56 | 33.298 | 24.538 | 338.7 | 0.000 | 5.87 | 103.2 | 2.2 | 0.34 | 0.1 | 0.00 | 0.10 | 0.03 | 0 | |
| 1 | 15.56 | 15.56 | 33.298 | 24.538 | 338.8 | 0.003 | 5.87 | 103.2 | 2.2 | 0.34 | 0.1 | 0.00 | 0.10 | 0.03 | 1 | |
| 1 | 9 | 15.56 | 15.56 | 33.297 | 24.537 | 339.1 | 0.031 | 5.94 | 104.5 | 2.0 | 0.34 | 0.1 | 0.00 | 0.11 | 0.04 | 9 |
| 1 | 10 ISL | 15.55 | 15.55 | 33.297 | 24.540 | 338.9 | 0.034 | 5.94 | 104.4 | 2.0 | 0.34 | 0.1 | 0.00 | 0.11 | 0.04 | 10 |
| 1 | 20 ISL | 15.49 | 15.49 | 33.298 | 24.554 | 337.9 | 0.068 | 5.92 | 104.0 | 2.1 | 0.35 | 0.1 | 0.00 | 0.10 | 0.03 | 20 |
| 1 | 21 | 15.48 | 15.48 | 33.298 | 24.556 | 337.6 | 0.071 | 5.92 | 103.9 | 2.1 | 0.35 | 0.1 | 0.00 | 0.10 | 0.03 | 21 |
| 1 | 30 | 15.08 | 15.08 | 33.290 | 24.638 | 330.1 | 0.101 | 6.02 | 104.9 | 2.0 | 0.35 | 0.1 | 0.00 | 0.15 | 0.04 | 30 |
| 1 | 40 | 14.53 | 14.52 | 33.241 | 24.719 | 322.7 | 0.134 | 6.04 | 104.0 | 2.0 | 0.36 | 0.1 | 0.00 | 0.15 | 0.05 | 40 |
| 1 | 49 | 14.05 | 14.04 | 33.253 | 24.829 | 312.5 | 0.162 | 6.11 | 104.2 | 2.1 | 0.38 | 0.1 | 0.00 | 0.21 | 0.09 | 49 |
| 1 | 50 ISL | 14.03 | 14.02 | 33.254 | 24.834 | 312.0 | 0.166 | 6.11 | 104.2 | 2.1 | 0.38 | 0.1 | 0.00 | 0.22 | 0.10 | 50 |
| 1 | 60 | 13.91 | 13.90 | 33.255 | 24.860 | 309.8 | 0.197 | 6.01 | 102.2 | 2.2 | 0.39 | 0.1 | 0.00 | 0.37 | 0.17 | 60 |
| 1 | 70 | 13.52 | 13.51 | 33.232 | 24.922 | 304.1 | 0.227 | 5.86 | 98.8 | 3.4 | 0.46 | 1.3 | 0.10 | 0.69 | 0.28 | 71 |
| 1 | 75 ISL | 13.14 | 13.13 | 33.226 | 24.994 | 297.4 | 0.242 | 5.71 | 95.6 | 4.2 | 0.55 | 2.8 | 0.09 | 0.62 | 0.26 | 76 |
| 1 | 84 | 12.41 | 12.40 | 33.240 | 25.147 | 282.9 | 0.268 | 5.41 | 89.2 | 5.8 | 0.73 | 6.0 | 0.07 | 0.37 | 0.23 | 85 |
| 1 | 100 | 11.68 | 11.67 | 33.358 | 25.376 | 261.4 | 0.312 | 4.99 | 81.0 | 8.7 | 0.94 | 10.0 | 0.03 | 0.21 | 0.19 | 101 |
| 1 | 118 | 10.88 | 10.87 | 33.561 | 25.679 | 232.9 | 0.356 | 4.27 | 68.2 | 13.8 | 1.24 | 15.4 | 0.02 | 0.08 | 0.13 | 119 |
| 1 | 125 ISL | 10.60 | 10.59 | 33.614 | 25.770 | 224.4 | 0.372 | 4.06 | 64.5 | 15.8 | 1.34 | 17.1 | 0.02 | 0.05 | 0.10 | 126 |
| 1 | 143 | 9.96 | 9.94 | 33.727 | 25.968 | 205.9 | 0.411 | 3.61 | 56.6 | 21.1 | 1.58 | 20.9 | 0.02 | 0.02 | 0.05 | 144 |
| 1 | 150 ISL | 9.73 | 9.71 | 33.779 | 26.047 | 198.4 | 0.425 | 3.43 | 53.5 | 23.3 | 1.67 | 22.3 | 0.02 | 0.02 | 0.05 | 151 |
| 1 | 172 | 9.14 | 9.12 | 33.924 | 26.257 | 178.8 | 0.467 | 2.94 | 45.3 | 29.7 | 1.89 | 25.8 | 0.01 | 0.02 | 0.04 | 173 |
| 1 | 200 ISL | 8.82 | 8.80 | 34.007 | 26.373 | 168.3 | 0.515 | 2.55 | 39.0 | 34.3 | 2.04 | 27.8 | 0.01 | 0.02 | 0.04 | 202 |
| 1 | 202 | 8.81 | 8.79 | 34.010 | 26.376 | 168.0 | 0.519 | 2.53 | 38.7 | 34.5 | 2.05 | 27.9 | 0.01 | 0.02 | 0.04 | 204 |
| 1 | 230 | 8.48 | 8.46 | 34.067 | 26.473 | 159.3 | 0.565 | 2.30 | 34.9 | 38.6 | 2.17 | 29.5 | 0.01 | | | 232 |
| 1 | 250 ISL | 8.27 | 8.24 | 34.114 | 26.542 | 153.0 | 0.596 | 1.95 | 29.5 | 42.6 | 2.31 | 30.9 | 0.01 | | | 252 |
| 1 | 269 | 8.07 | 8.04 | 34.154 | 26.603 | 147.4 | 0.624 | 1.61 | 24.2 | 46.5 | 2.44 | 32.3 | 0.00 | | | 271 |
| 1 | 300 ISL | 7.76 | 7.73 | 34.190 | 26.677 | 140.8 | 0.669 | 1.29 | 19.3 | 51.7 | 2.59 | 34.0 | 0.00 | | | 302 |
| 1 | 324 | 7.52 | 7.49 | 34.202 | 26.722 | 136.8 | 0.702 | 1.14 | 16.9 | 55.3 | 2.68 | 35.1 | 0.00 | | | 327 |
| 1 | 382 | 6.84 | 6.80 | 34.193 | 26.810 | 128.9 | 0.779 | 0.94 | 13.8 | 63.2 | 2.80 | 37.4 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-----------|------|-------|--------|-------|
| 31 30.8 N | 120 14.8 W | 02/05/87 | 0849 GMT | 4018 M | 330 | 16 KT | | | 1019.0 MB | 14.7 C | 11.7 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.78 | 15.78 | 33.266 | 24.464 | 345.8 | 0.000 | 5.81 | 102.6 | 2.6 | 0.34 | 0.1 | 0.00 | 0.07 | 0.01 | 0 |
| 1 | 1 | 15.78 | 15.78 | 33.266 | 24.464 | 345.8 | 0.003 | 5.81 | 102.6 | 2.6 | 0.34 | 0.1 | 0.00 | 0.07 | 0.01 | 1 |
| 1 | 10 ISL | 15.79 | 15.79 | 33.265 | 24.462 | 346.3 | 0.035 | 5.86 | 103.5 | 2.6 | 0.35 | 0.1 | 0.00 | 0.08 | 0.01 | 10 |
| 1 | 16 | 15.80 | 15.80 | 33.264 | 24.459 | 346.8 | 0.055 | 5.90 | 104.2 | 2.5 | 0.35 | 0.1 | 0.00 | 0.08 | 0.01 | 16 |
| 20 | ISL | 15.78 | 15.78 | 33.262 | 24.462 | 346.6 | 0.069 | 5.89 | 104.0 | 2.5 | 0.35 | 0.1 | 0.00 | 0.08 | 0.01 | 20 |
| 30 | ISL | 15.63 | 15.63 | 33.253 | 24.489 | 344.4 | 0.104 | 5.87 | 103.3 | 2.4 | 0.35 | 0.1 | 0.00 | 0.07 | 0.01 | 30 |
| 1 | 32 | 15.58 | 15.58 | 33.250 | 24.498 | 343.6 | 0.111 | 5.87 | 103.2 | 2.4 | 0.35 | 0.1 | 0.00 | 0.07 | 0.01 | 32 |
| 1 | 41 | 15.23 | 15.23 | 33.232 | 24.561 | 337.8 | 0.141 | 5.96 | 104.1 | 2.4 | 0.35 | 0.1 | 0.00 | 0.09 | 0.01 | 41 |
| 50 | ISL | 15.09 | 15.08 | 33.230 | 24.590 | 335.3 | 0.172 | 5.95 | 103.6 | 2.5 | 0.36 | 0.1 | 0.00 | 0.10 | 0.02 | 50 |
| 1 | 51 | 15.07 | 15.06 | 33.230 | 24.595 | 334.9 | 0.175 | 5.95 | 103.6 | 2.5 | 0.36 | 0.1 | 0.00 | 0.10 | 0.02 | 51 |
| 1 | 61 | 14.54 | 14.53 | 33.235 | 24.713 | 323.9 | 0.208 | 6.02 | 103.7 | 2.5 | 0.37 | 0.1 | 0.00 | 0.13 | 0.05 | 61 |
| 1 | 71 | 13.93 | 13.92 | 33.216 | 24.826 | 313.4 | 0.240 | 5.98 | 101.7 | 2.6 | 0.38 | 0.1 | 0.00 | 0.37 | 0.17 | 72 |
| 75 | ISL | 13.82 | 13.81 | 33.219 | 24.851 | 311.1 | 0.252 | 5.94 | 100.8 | 2.7 | 0.40 | 0.3 | 0.04 | 0.44 | 0.20 | 76 |
| 1 | 80 | 13.67 | 13.66 | 33.226 | 24.887 | 307.7 | 0.268 | 5.86 | 99.1 | 2.9 | 0.44 | 0.9 | 0.09 | 0.49 | 0.22 | 81 |
| 1 | 96 | 12.32 | 12.31 | 33.254 | 25.176 | 280.5 | 0.315 | 5.31 | 87.4 | 6.4 | 0.77 | 6.7 | 0.05 | 0.29 | 0.16 | 97 |
| 100 | ISL | 11.97 | 11.96 | 33.284 | 25.265 | 272.1 | 0.326 | 5.13 | 83.8 | 7.7 | 0.87 | 8.5 | 0.04 | 0.24 | 0.15 | 101 |
| 1 | 110 | 11.13 | 11.12 | 33.382 | 25.495 | 250.2 | 0.352 | 4.67 | 74.9 | 11.4 | 1.13 | 12.9 | 0.02 | 0.14 | 0.12 | 111 |
| 1 | 125 | 10.14 | 10.13 | 33.554 | 25.802 | 221.2 | 0.387 | 4.02 | 63.2 | 17.6 | 1.45 | 18.7 | 0.01 | 0.03 | 0.06 | 126 |
| 1 | 150 | 9.35 | 9.33 | 33.767 | 26.100 | 193.3 | 0.439 | 3.44 | 53.2 | 24.7 | 1.72 | 23.3 | 0.00 | 0.01 | 0.09 | 151 |
| 1 | 175 | 8.79 | 8.77 | 33.873 | 26.272 | 177.3 | 0.485 | 3.34 | 51.0 | 28.9 | 1.81 | 25.3 | 0.00 | 0.00 | 0.03 | 176 |
| 200 | ISL | 8.36 | 8.34 | 33.945 | 26.395 | 166.0 | 0.528 | 3.37 | 51.0 | 32.4 | 1.86 | 26.1 | 0.00 | 0.01 | 0.02 | 202 |
| 1 | 203 | 8.32 | 8.30 | 33.952 | 26.406 | 164.9 | 0.533 | 3.37 | 51.0 | 32.8 | 1.87 | 26.2 | 0.00 | 0.01 | 0.02 | 205 |
| 1 | 233 | 8.05 | 8.01 | 34.010 | 26.496 | 156.9 | 0.582 | 2.82 | 42.4 | 38.3 | 2.05 | 28.9 | 0.00 | | | 235 |
| 250 | ISL | 7.84 | 7.82 | 34.028 | 26.538 | 153.1 | 0.608 | 2.61 | 39.0 | 40.8 | 2.14 | 30.0 | 0.00 | | | 252 |
| 1 | 271 | 7.59 | 7.56 | 34.043 | 26.586 | 148.7 | 0.640 | 2.39 | 35.6 | 43.9 | 2.24 | 31.3 | 0.00 | | | 273 |
| 300 | ISL | 7.22 | 7.19 | 34.064 | 26.655 | 142.5 | 0.682 | 1.98 | 29.2 | 50.0 | 2.41 | 33.5 | 0.00 | | | 302 |
| 1 | 325 | 6.93 | 6.90 | 34.082 | 26.709 | 137.5 | 0.717 | 1.63 | 23.9 | 55.3 | 2.55 | 35.3 | 0.00 | | | 328 |
| 1 | 382 | 6.53 | 6.50 | 34.128 | 26.800 | 129.5 | 0.793 | 1.08 | 15.7 | 64.1 | 2.79 | 38.1 | 0.00 | | | 385 |
| 400 | ISL | 6.46 | 6.42 | 34.152 | 26.828 | 127.1 | 0.816 | 0.94 | 13.6 | 66.3 | 2.85 | 38.7 | 0.00 | | | 403 |
| 1 | 446 | 6.29 | 6.25 | 34.210 | 26.896 | 121.1 | 0.873 | 0.64 | 9.2 | 72.0 | 2.97 | 39.8 | 0.00 | | | 450 |
| 500 | ISL | 5.86 | 5.82 | 34.231 | 26.968 | 114.7 | 0.937 | 0.46 | 6.6 | 80.1 | 3.07 | 41.2 | 0.00 | | | 504 |
| 1 | 515 | 5.74 | 5.70 | 34.237 | 26.988 | 112.9 | 0.954 | 0.41 | 5.8 | 82.4 | 3.10 | 41.6 | 0.00 | | | 519 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-----------|------|-------|--------|-------|
| 31 10.7 N | 120 55.3 W | 02/05/87 | 1406 GMT | 3828 M | 350 | 27 KT | 350 06 08 | 1 | 1019.0 MB | 15.0 C | 11.8 C | 5/8 | ST | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.30 | 15.30 | 33.166 | 24.494 | 343.0 | 0.000 | 5.88 | 102.8 | 2.3 | 0.35 | 0.1 | 0.00 | 0.07 | 0.02 | 0 |
| 1 | 10 ISL | 15.32 | 15.32 | 33.165 | 24.489 | 343.7 | 0.034 | 5.92 | 103.5 | 2.2 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 10 |
| 1 | 15 | 15.33 | 15.33 | 33.165 | 24.487 | 344.1 | 0.052 | 5.94 | 103.9 | 2.2 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 15 |
| 20 | ISL | 15.35 | 15.35 | 33.178 | 24.493 | 343.7 | 0.069 | 5.93 | 103.8 | 2.2 | 0.36 | 0.1 | 0.00 | 0.08 | 0.02 | 20 |
| 1 | 29 | 15.38 | 15.38 | 33.204 | 24.506 | 342.7 | 0.100 | 5.90 | 103.3 | 2.1 | 0.35 | 0.0 | 0.00 | 0.07 | 0.02 | 29 |
| 30 | ISL | 15.38 | 15.38 | 33.214 | 24.514 | 342.0 | 0.103 | 5.90 | 103.3 | 2.1 | 0.35 | 0.0 | 0.00 | 0.07 | 0.02 | 30 |
| 1 | 40 | 15.43 | 15.42 | 33.312 | 24.579 | 336.1 | 0.137 | 5.92 | 103.8 | 2.1 | 0.33 | 0.0 | 0.00 | 0.07 | 0.03 | 40 |
| 50 | ISL | 15.48 | 15.47 | 33.342 | 24.591 | 335.2 | 0.171 | 5.87 | 103.1 | 2.0 | 0.34 | 0.0 | 0.00 | 0.08 | 0.03 | 50 |
| 1 | 51 | 15.48 | 15.47 | 33.346 | 24.594 | 335.0 | 0.174 | 5.87 | 103.1 | 2.0 | 0.34 | 0.0 | 0.00 | 0.08 | 0.03 | 51 |
| 1 | 61 | 14.48 | 14.47 | 33.193 | 24.693 | 325.8 | 0.207 | 6.01 | 103.4 | 2.1 | 0.37 | 0.0 | 0.00 | 0.17 | 0.10 | 61 |
| 1 | 70 | 13.88 | 13.87 | 33.148 | 24.784 | 317.3 | 0.236 | 6.08 | 103.3 | 2.2 | 0.38 | 0.0 | 0.00 | 0.26 | 0.15 | 71 |
| 75 | ISL | 13.45 | 13.44 | 33.129 | 24.856 | 310.5 | 0.252 | 6.01 | 101.2 | 2.6 | 0.43 | 0.5 | 0.08 | 0.34 | 0.21 | 76 |
| 1 | 79 | 13.11 | 13.10 | 33.121 | 24.918 | 304.7 | 0.264 | 5.92 | 98.9 | 3.0 | 0.48 | 1.1 | 0.14 | 0.40 | 0.26 | 80 |
| 1 | 94 | 12.42 | 12.41 | 33.166 | 25.088 | 288.8 | 0.308 | 5.55 | 91.4 | 4.7 | 0.66 | 4.8 | 0.06 | 0.33 | 0.24 | 95 |
| 100 | ISL | 12.11 | 12.10 | 33.203 | 25.176 | 280.6 | 0.325 | 5.37 | 87.9 | 5.9 | 0.75 | 6.5 | 0.04 | 0.27 | 0.22 | 101 |
| 1 | 109 | 11.68 | 11.67 | 33.264 | 25.303 | 268.6 | 0.350 | 5.12 | 83.1 | 7.7 | 0.89 | 8.9 | 0.02 | 0.19 | 0.18 | 100 |
| 1 | 124 | 11.21 | 11.19 | 33.346 | 25.453 | 254.5 | 0.389 | 4.82 | 77.5 | 10.0 | 1.03 | 11.6 | 0.02 | 0.13 | 0.13 | 125 |
| 125 | ISL | 11.16 | 11.14 | 33.359 | 25.472 | 252.8 | 0.392 | 4.77 | 76.6 | 10.4 | 1.05 | 12.0 | 0.02 | 0.12 | 0.13 | 126 |
| 1 | 147 | 10.01 | 9.99 | 33.669 | 25.914 | 211.0 | 0.443 | 3.70 | 58.0 | 19.9 | 1.55 | 20.5 | 0.01 | 0.01 | 0.06 | 148 |
| 150 | ISL | 9.88 | 9.86 | 33.694 | 25.955 | 207.1 | 0.449 | 3.71 | 58.0 | 20.6 | 1.56 | 20.7 | 0.01 | 0.01 | 0.06 | 151 |
| 1 | 173 | 9.06 | 9.04 | 33.824 | 26.191 | 185.0 | 0.494 | 3.81 | 58.5 | 24.2 | 1.62 | 22.3 | 0.00 | 0.00 | 0.05 | 174 |
| 200 | ISL | 8.62 | 8.60 | 33.916 | 26.332 | 172.0 | 0.542 | 3.77 | 57.4 | 27.7 | 1.66 | 23.7 | 0.00 | 0.00 | 0.03 | 202 |
| 1 | 203 | 8.59 | 8.57 | 33.923 | 26.342 | 171.1 | 0.548 | 3.77 | 57.3 | 28.1 | 1.67 | 23.8 | 0.00 | 0.00 | | 205 |
| 1 | 231 | 8.04 | 8.02 | 33.985 | 26.474 | 158.8 | 0.594 | 3.67 | 55.1 | 33.6 | 1.77 | 25.6 | 0.00 | | | 233 |
| 250 | ISL | 7.79 | 7.77 | 34.007 | 26.529 | 153.9 | 0.624 | 3.23 | 48.3 | 37.9 | 1.94 | 27.9 | 0.00 | | | 252 |
| 1 | 271 | 7.58 | 7.55 | 34.023 | 26.572 | 150.1 | 0.655 | 2.64 | 39.3 | 42.8 | 2.14 | 30.5 | 0.00 | | | 273 |
| | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|-------|-------|
| 30 50.8 N | 121 35.4 W | 02/05/87 | 2001 GMT | 4210 M | 330 | 18 KT | 340 06 | 07 | 1 | 1021.0 MB | 17.3 C | 13.7 C | 4/8 | ST | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.28 | 16.28 | 33.337 | 24.406 | 351.3 | 0.000 | 5.75 | 102.6 | 1.9 | 0.33 | 0.0 | 0.00 | 0.05 | 0.02 | 0 |
| 1 | 1 | 16.28 | 16.28 | 33.337 | 24.406 | 351.4 | 0.004 | 5.75 | 102.6 | 1.9 | 0.33 | 0.0 | 0.00 | 0.05 | 0.02 | 1 |
| 1 | 10 ISL | 16.24 | 16.24 | 33.334 | 24.413 | 351.0 | 0.035 | 5.78 | 103.0 | 1.8 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 10 |
| 1 | 16 | 16.22 | 16.22 | 33.332 | 24.416 | 350.9 | 0.056 | 5.80 | 103.4 | 1.7 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 16 |
| 1 | 20 ISL | 16.17 | 16.17 | 33.330 | 24.426 | 350.1 | 0.070 | 5.80 | 103.2 | 1.7 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 20 |
| 1 | 30 | 16.04 | 16.04 | 33.321 | 24.449 | 348.2 | 0.105 | 5.81 | 103.2 | 1.7 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 30 |
| 1 | 41 | 15.90 | 15.89 | 33.307 | 24.470 | 346.5 | 0.143 | 5.84 | 103.4 | 1.7 | 0.33 | 0.0 | 0.00 | 0.06 | 0.01 | 41 |
| 1 | 50 ISL | 15.72 | 15.71 | 33.347 | 24.542 | 339.9 | 0.174 | 5.85 | 103.2 | 1.7 | 0.33 | 0.0 | 0.00 | 0.07 | 0.01 | 50 |
| 1 | 52 | 15.68 | 15.67 | 33.356 | 24.558 | 338.5 | 0.181 | 5.85 | 103.2 | 1.7 | 0.33 | 0.0 | 0.00 | 0.07 | 0.01 | 52 |
| 1 | 61 | 15.61 | 15.60 | 33.358 | 24.575 | 337.1 | 0.211 | 5.86 | 103.2 | 1.8 | 0.32 | 0.0 | 0.00 | 0.08 | 0.01 | 61 |
| 1 | 71 | 15.28 | 15.27 | 33.346 | 24.639 | 331.3 | 0.245 | 5.87 | 102.7 | 1.7 | 0.32 | 0.0 | 0.00 | 0.12 | 0.03 | 72 |
| 1 | 75 ISL | 15.06 | 15.05 | 33.339 | 24.682 | 327.3 | 0.258 | 5.88 | 102.4 | 1.8 | 0.32 | 0.0 | 0.00 | 0.13 | 0.04 | 76 |
| 1 | 79 | 14.82 | 14.81 | 33.336 | 24.731 | 322.7 | 0.271 | 5.89 | 102.1 | 2.0 | 0.33 | 0.0 | 0.00 | 0.15 | 0.05 | 80 |
| 1 | 93 | 14.11 | 14.10 | 33.373 | 24.910 | 306.0 | 0.315 | 5.79 | 98.9 | 2.7 | 0.41 | 0.6 | 0.04 | 0.75 | 0.30 | 94 |
| 1 | 100 ISL | 13.59 | 13.58 | 33.400 | 25.038 | 293.9 | 0.336 | 5.57 | 94.2 | 3.7 | 0.51 | 2.5 | 0.09 | 0.65 | 0.30 | 101 |
| 1 | 109 | 12.91 | 12.90 | 33.441 | 25.207 | 278.1 | 0.362 | 5.19 | 86.5 | 5.6 | 0.68 | 5.5 | 0.14 | 0.53 | 0.30 | 110 |
| 1 | 124 | 12.13 | 12.11 | 33.512 | 25.412 | 258.7 | 0.402 | 4.53 | 74.3 | 9.7 | 0.97 | 10.2 | 0.09 | 0.31 | 0.21 | 125 |
| 1 | 125 ISL | 12.09 | 12.07 | 33.522 | 25.428 | 257.3 | 0.405 | 4.46 | 73.1 | 10.1 | 1.00 | 10.6 | 0.09 | 0.30 | 0.21 | 126 |
| 1 | 147 | 11.49 | 11.47 | 33.746 | 25.714 | 230.5 | 0.458 | 2.98 | 48.3 | 18.3 | 1.55 | 18.7 | 0.01 | 0.11 | 0.14 | 148 |
| 1 | 150 ISL | 11.43 | 11.41 | 33.763 | 25.738 | 228.2 | 0.465 | 2.89 | 46.8 | 19.0 | 1.59 | 19.3 | 0.01 | 0.10 | 0.13 | 151 |
| 1 | 173 | 11.06 | 11.04 | 33.854 | 25.876 | 215.6 | 0.516 | 2.56 | 41.1 | 23.0 | 1.77 | 21.9 | 0.01 | 0.03 | 0.06 | 174 |
| 1 | 200 ISL | 10.69 | 10.67 | 33.976 | 26.038 | 200.8 | 0.572 | 2.18 | 34.8 | 27.0 | 1.95 | 24.2 | 0.00 | 0.00 | 0.04 | 202 |
| 1 | 202 | 10.66 | 10.64 | 33.984 | 26.049 | 199.7 | 0.576 | 2.16 | 34.4 | 27.2 | 1.96 | 24.3 | 0.00 | 0.00 | 0.04 | 204 |
| 1 | 230 | 10.23 | 10.20 | 34.048 | 26.174 | 188.3 | 0.631 | 2.13 | 33.6 | 29.2 | 2.02 | 25.9 | 0.00 | | | 232 |
| 1 | 250 ISL | 9.91 | 9.88 | 34.092 | 26.263 | 180.2 | 0.668 | 1.99 | 31.2 | 31.8 | 2.09 | 27.3 | 0.00 | | | 252 |
| 1 | 269 | 9.63 | 9.60 | 34.131 | 26.341 | 173.2 | 0.701 | 1.82 | 28.4 | 34.6 | 2.17 | 28.5 | 0.00 | | | 271 |
| 1 | 300 ISL | 9.28 | 9.25 | 34.193 | 26.447 | 163.6 | 0.753 | 1.62 | 25.1 | 38.2 | 2.28 | 29.6 | 0.01 | | | 302 |
| 1 | 324 | 9.00 | 8.96 | 34.226 | 26.518 | 157.2 | 0.792 | 1.49 | 22.9 | 41.0 | 2.36 | 30.4 | 0.01 | | | 327 |
| 1 | 382 | 8.04 | 8.00 | 34.216 | 26.658 | 144.3 | 0.879 | 1.24 | 18.7 | 49.4 | 2.55 | 33.3 | 0.00 | | | 385 |
| 1 | 400 ISL | 7.79 | 7.75 | 34.218 | 26.697 | 140.7 | 0.905 | 1.13 | 16.9 | 52.4 | 2.61 | 34.2 | 0.00 | | | 403 |
| 1 | 448 | 7.19 | 7.15 | 34.232 | 26.793 | 131.8 | 0.970 | 0.84 | 12.4 | 60.5 | 2.76 | 36.5 | 0.00 | | | 452 |
| 1 | 500 ISL | 6.63 | 6.58 | 34.259 | 26.892 | 122.8 | 1.036 | 0.58 | 8.4 | 69.1 | 2.91 | 38.8 | 0.00 | | | 504 |
| 1 | 519 | 6.42 | 6.37 | 34.270 | 26.928 | 119.4 | 1.059 | 0.48 | 7.0 | 72.2 | 2.96 | 39.6 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|-------|-------|
| 30 30.8 N | 122 15.5 W | 03/05/87 | 0142 GMT | 4305 M | 340 | 19 KT | 350 07 | 07 | 1 | 1019.5 MB | 16.6 C | 13.5 C | 6/8 | CU | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.38 | 16.38 | 33.333 | 24.380 | 353.8 | 0.000 | 5.75 | 102.8 | 2.0 | 0.33 | 0.0 | 0.00 | 0.07 | 0.02 | 0 |
| 1 | 1 | 16.38 | 16.38 | 33.333 | 24.380 | 353.8 | 0.004 | 5.75 | 102.8 | 2.0 | 0.33 | 0.0 | 0.00 | 0.07 | 0.02 | 1 |
| 1 | 10 ISL | 16.39 | 16.39 | 33.331 | 24.376 | 354.5 | 0.035 | 5.78 | 103.3 | 1.9 | 0.33 | 0.0 | 0.00 | 0.07 | 0.02 | 10 |
| 1 | 16 | 16.40 | 16.40 | 33.330 | 24.374 | 354.9 | 0.057 | 5.81 | 103.9 | 1.8 | 0.33 | 0.0 | 0.00 | 0.07 | 0.02 | 16 |
| 1 | 20 ISL | 16.30 | 16.30 | 33.322 | 24.390 | 353.5 | 0.071 | 5.82 | 103.9 | 1.8 | 0.33 | 0.0 | 0.00 | 0.07 | 0.02 | 20 |
| 1 | 30 ISL | 15.99 | 15.99 | 33.304 | 24.448 | 348.4 | 0.106 | 5.85 | 103.8 | 1.8 | 0.32 | 0.0 | 0.00 | 0.07 | 0.02 | 30 |
| 1 | 32 | 15.92 | 15.91 | 33.301 | 24.461 | 347.1 | 0.113 | 5.85 | 103.6 | 1.8 | 0.32 | 0.0 | 0.00 | 0.07 | 0.02 | 32 |
| 1 | 42 | 15.70 | 15.69 | 33.309 | 24.517 | 342.1 | 0.147 | 5.88 | 103.7 | 1.7 | 0.32 | 0.0 | 0.00 | 0.08 | 0.02 | 42 |
| 1 | 50 ISL | 15.66 | 15.65 | 33.350 | 24.557 | 338.5 | 0.175 | 5.88 | 103.6 | 1.7 | 0.32 | 0.0 | 0.00 | 0.08 | 0.02 | 50 |
| 1 | 51 | 15.65 | 15.64 | 33.357 | 24.565 | 337.8 | 0.178 | 5.88 | 103.6 | 1.7 | 0.32 | 0.0 | 0.00 | 0.08 | 0.02 | 51 |
| 1 | 61 | 14.89 | 14.88 | 33.262 | 24.659 | 329.1 | 0.211 | 5.98 | 103.7 | 1.6 | 0.34 | 0.0 | 0.00 | 0.12 | 0.05 | 61 |
| 1 | 72 | 15.04 | 15.03 | 33.372 | 24.711 | 324.4 | 0.247 | 5.89 | 102.6 | 1.6 | 0.32 | 0.0 | 0.00 | 0.14 | 0.07 | 73 |
| 1 | 75 ISL | 15.19 | 15.18 | 33.449 | 24.738 | 322.0 | 0.257 | 5.84 | 102.0 | 1.6 | 0.30 | 0.0 | 0.00 | 0.18 | 0.10 | 76 |
| 1 | 80 | 15.35 | 15.34 | 33.558 | 24.787 | 317.5 | 0.273 | 5.76 | 101.0 | 1.7 | 0.29 | 0.0 | 0.01 | 0.26 | 0.15 | 81 |
| 1 | 95 | 13.88 | 13.87 | 33.351 | 24.941 | 303.1 | 0.319 | 5.65 | 96.1 | 3.0 | 0.45 | 1.4 | 0.16 | 0.33 | 0.26 | 96 |
| 1 | 100 ISL | 13.37 | 13.37 | 33.359 | 25.049 | 292.8 | 0.334 | 5.44 | 91.6 | 4.1 | 0.56 | 3.3 | 0.14 | 0.31 | 0.29 | 101 |
| 1 | 111 | 12.42 | 12.41 | 33.427 | 25.291 | 269.9 | 0.365 | 5.00 | 82.5 | 6.6 | 0.79 | 7.7 | 0.05 | 0.24 | 0.35 | 112 |
| 1 | 125 | 11.69 | 11.67 | 33.477 | 25.468 | 253.4 | 0.402 | 4.92 | 80.0 | 8.1 | 0.87 | 9.7 | 0.02 | 0.13 | 0.15 | 126 |
| 1 | 150 | 10.60 | 10.58 | 33.687 | 25.827 | 219.5 | 0.461 | 4.54 | 72.1 | 12.7 | 1.09 | 14.2 | 0.01 | 0.03 | 0.06 | 151 |
| 1 | 174 | 9.95 | 9.93 | 33.747 | 25.986 | 204.8 | 0.512 | 4.47 | 70.0 | 15.5 | 1.21 | 16.5 | 0.00 | 0.02 | 0.05 | 175 |
| 1 | 203 | 9.08 | 9.06 | 33.869 | 26.224 | 182.6 | 0.568 | 3.90 | 60.0 | 24.5 | 1.52 | 21.8 | 0.00 | 0.00 | 0.03 | 205 |
| 1 | 231 | 8.73 | 8.71 | 33.991 | 26.375 | 168.6 | 0.617 | 2.80 | 42.7 | 33.1 | 1.92 | 27.2 | 0.00 | | | 233 |
| 1 | 250 ISL | 8.45 | 8.42 | 34.032 | 26.450 | 161.7 | 0.649 | 2.54 | 38.5 | 36.9 | 2.04 | 28.8 | 0.00 | | | 252 |
| 1 | 270 | 8.16 | 8.13 | 34.058 | 26.514 | 155.8 | 0.680 | 2.42 | 36.5 | 40.1 | 2.12 | 29.8 | 0.00 | | | 272 |
| 1 | 300 ISL | 7.84 | 7.81 | 34.096 | 26. | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 30 10.9 N | 122 55.3 W | 03/05/87 | 0720 GMT | 3828 M | 350 | 20 KT | | | 1021.1 MB | 15.9 C | 13.2 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.32 | 16.32 | 33.384 | 24.433 | 348.8 | 0.000 | 5.77 | 103.1 | 2.3 | 0.33 | 0.1 | 0.00 | 0.06 | 0.01 | 0 |
| 1 | 1 | 16.32 | 16.32 | 33.384 | 24.433 | 348.8 | 0.003 | 5.77 | 103.1 | 2.3 | 0.33 | 0.1 | 0.00 | 0.06 | 0.01 | 1 |
| 1 | 10 ISL | 16.33 | 16.33 | 33.384 | 24.431 | 349.3 | 0.035 | 5.78 | 103.2 | 2.2 | 0.34 | 0.1 | 0.00 | 0.07 | 0.01 | 10 |
| 1 | 16 | 16.33 | 16.33 | 33.384 | 24.431 | 349.5 | 0.056 | 5.79 | 103.4 | 2.2 | 0.34 | 0.1 | 0.00 | 0.07 | 0.01 | 16 |
| 1 | 20 ISL | 16.32 | 16.32 | 33.384 | 24.434 | 349.4 | 0.070 | 5.79 | 103.4 | 2.2 | 0.34 | 0.1 | 0.00 | 0.07 | 0.01 | 20 |
| 1 | 30 | 16.31 | 16.31 | 33.384 | 24.436 | 349.4 | 0.105 | 5.80 | 103.6 | 2.2 | 0.34 | 0.1 | 0.00 | 0.07 | 0.02 | 30 |
| 1 | 41 | 15.82 | 15.81 | 33.361 | 24.530 | 340.8 | 0.143 | 5.88 | 104.0 | 2.1 | 0.34 | 0.1 | 0.00 | 0.07 | 0.02 | 41 |
| 1 | 50 | 15.74 | 15.73 | 33.362 | 24.549 | 339.3 | 0.173 | 5.88 | 103.8 | 2.0 | 0.34 | 0.1 | 0.00 | 0.08 | 0.02 | 50 |
| 1 | 61 | 15.56 | 15.55 | 33.337 | 24.570 | 337.6 | 0.211 | 5.88 | 103.4 | 1.8 | 0.35 | 0.1 | 0.01 | 0.10 | 0.03 | 61 |
| 1 | 70 | 15.12 | 15.11 | 33.301 | 24.639 | 331.2 | 0.241 | 5.90 | 102.8 | 1.8 | 0.35 | 0.1 | 0.00 | 0.13 | 0.06 | 71 |
| 1 | 75 ISL | 14.96 | 14.95 | 33.303 | 24.676 | 327.9 | 0.257 | 5.91 | 102.7 | 2.0 | 0.36 | 0.1 | 0.00 | 0.17' | 0.09 | 76 |
| 1 | 79 | 14.85 | 14.84 | 33.309 | 24.704 | 325.3 | 0.270 | 5.91 | 102.5 | 2.1 | 0.36 | 0.1 | 0.00 | 0.21 | 0.12 | 80 |
| 1 | 95 | 14.53 | 14.52 | 33.308 | 24.772 | 319.2 | 0.322 | 5.88 | 101.3 | 2.0 | 0.37 | 0.1 | 0.00 | 0.32 | 0.19 | 96 |
| 1 | 100 ISL | 14.45 | 14.44 | 33.331 | 24.807 | 316.1 | 0.338 | 5.82 | 100.1 | 2.2 | 0.38 | 0.5 | 0.08 | 0.32 | 0.23 | 101 |
| 1 | 110 | 14.03 | 14.01 | 33.358 | 24.916 | 305.9 | 0.369 | 5.64 | 96.2 | 2.6 | 0.46 | 1.4 | 0.20 | 0.33 | 0.28 | HI |
| 1 | 124 | 12.29 | 12.27 | 33.276 | 25.199 | 279.0 | 0.410 | 5.29 | 87.0 | 5.9 | 0.77 | 6.8 | 0.03 | 0.21 | 0.23 | 125 |
| 1 | 125 ISL | 12.19 | 12.17 | 33.279 | 25.220 | 277.0 | 0.412 | 5.26 | 86.3 | 6.2 | 0.79 | 7.2 | 0.03 | 0.20 | 0.22 | 126 |
| 1 | 149 | 10.47 | 10.45 | 33.466 | 25.677 | 233.7 | 0.474 | 4.45 | 70.4 | 14.3 | 1.28 | 15.5 | 0.01 | 0.04 | 0.08 | 150 |
| 1 | 150 ISL | 10.43 | 10.41 | 33.476 | 25.692 | 232.3 | 0.476 | 4.43 | 70.0 | 14.6 | 1.29 | 15.7 | 0.01 | 0.04 | 0.08 | 151 |
| 1 | 174 | 9.68 | 9.66 | 33.689 | 25.985 | 204.8 | 0.529 | 3.98 | 62.0 | 20.1 | 1.51 | 20.0 | 0.01 | 0.01 | 0.08 | 175 |
| 1 | 200 ISL | 9.03 | 9.01 | 33.826 | 26.198 | 184.9 | 0.579 | 3.41 | 52.4 | 26.3 | 1.79 | 24.4 | 0.01 | 0.00 | 0.04 | 202 |
| 1 | 204 | 8.95 | 8.93 | 33.841 | 26.222 | 182.6 | 0.587 | 3.34 | 51.2 | 27.2 | 1.83 | 24.9 | 0.01 | 0.00 | 0.03 | 206 |
| 1 | 232 | 8.49 | 8.47 | 33.919 | 26.355 | 170.4 | 0.636 | 3.21 | 48.7 | 31.3 | 1.91 | 26.5 | 0.01 | | | 234 |
| 1 | 250 ISL | 8.19 | 8.16 | 33.964 | 26.436 | 162.9 | 0.666 | 3.01 | 45.4 | 35.0 | 2.01 | 27.9 | 0.01 | | | 252 |
| 1 | 272 | 7.85 | 7.82 | 34.010 | 26.522 | 154.9 | 0.701 | 2.71 | 40.5 | 39.7 | 2.14 | 29.7 | 0.00 | | | 274 |
| 1 | 300 ISL | 7.50 | 7.47 | 34.034 | 26.592 | 148.6 | 0.743 | 2.37 | 35.2 | 44.8 | 2.29 | 31.7 | 0.00 | | | 302 |
| 1 | 327 | 7.22 | 7.19 | 34.048 | 26.643 | 144.1 | 0.783 | 2.04 | 30.1 | 49.6 | 2.43 | 33.5 | 0.00 | | | 330 |
| 1 | 384 | 6.70 | 6.66 | 34.109 | 26.762 | 132.3 | 0.862 | 1.25 | 18.2 | 61.0 | 2.75 | 37.2 | 0.00 | | | 387 |
| 1 | 400 ISL | 6.50 | 6.46 | 34.106 | 26.787 | 131.0 | 0.883 | 1.17 | 17.0 | 63.6 | 2.79 | 38.0 | 0.00 | | | 403 |
| 1 | 449 | 5.91 | 5.87 | 34.097 | 26.855 | 124.7 | 0.946 | 1.04 | 14.9 | 71.4 | 2.89 | 39.9 | 0.00 | | | 453 |
| 1 | 500 ISL | 5.56 | 5.52 | 34.150 | 26.940 | 116.9 | 1.007 | 0.71 | 10.1 | 80.3 | 3.04 | 41.7 | 0.00 | | | 504 |
| 1 | 518 | 5.44 | 5.40 | 34.169 | 26.970 | 114.2 | 1.028 | 0.59 | 8.3 | 83.5 | 3.09 | 42.3 | 0.00 | | | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 120

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 29 50.7 N | 123 35.3 W | 03/05/87 | 1245 GMT | 4114 M | 360 | 20 KT | | | 1020.5 MB | 15.9 C | 13.0 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 16.74 | 16.74 | 33.489 | 24.417 | 350.3 | 0.000 | 5.67 | 102.1 | 1.7 | 0.29 | 0.0 | 0.00 | 0.06 | 0.01 | 0 |
| 1 | 1 | 16.74 | 16.74 | 33.489 | 24.417 | 350.4 | 0.004 | 5.67 | 102.1 | 1.7 | 0.29 | 0.0 | 0.00 | 0.06 | 0.01 | 1 |
| 1 | 10 ISL | 16.75 | 16.75 | 33.489 | 24.415 | 350.8 | 0.035 | 5.75 | 103.6 | 1.7 | 0.29 | 0.0 | 0.00 | 0.05 | 0.01 | 10 |
| 1 | 16 | 16.76 | 16.76 | 33.489 | 24.412 | 351.2 | 0.056 | 5.80 | 104.5 | 1.7 | 0.29 | 0.0 | 0.00 | 0.05 | 0.01 | 16 |
| 1 | 20 ISL | 16.75 | 16.75 | 33.488 | 24.414 | 351.2 | 0.070 | 5.78 | 104.1 | 1.7 | 0.29 | 0.0 | 0.00 | 0.05 | 0.01 | 20 |
| 1 | 30 ISL | 16.74 | 16.74 | 33.487 | 24.416 | 351.4 | 0.105 | 5.72 | 103.0 | 1.7 | 0.30 | 0.0 | 0.00 | 0.05 | 0.01 | 30 |
| 1 | 32 | 16.74 | 16.73 | 33.487 | 24.416 | 351.5 | 0.112 | 5.71 | 102.9 | 1.7 | 0.30 | 0.0 | 0.00 | 0.05 | 0.01 | 32 |
| 1 | 42 | 16.78 | 16.77 | 33.484 | 24.405 | 352.8 | 0.148 | 5.79 | 104.4 | 1.8 | 0.29 | 0.0 | 0.00 | 0.05 | 0.01 | 42 |
| 1 | 50 ISL | 16.84 | 16.83 | 33.522 | 24.420 | 351.6 | 0.176 | 5.74 | 103.6 | 2.3 | 0.28 | 0.0 | 0.00 | 0.07 | 0.01 | 50 |
| 1 | 52 | 16.85 | 16.84 | 33.532 | 24.426 | 351.2 | 0.183 | 5.73 | 103.5 | 2.4 | 0.28 | 0.0 | 0.00 | 0.07 | 0.01 | 52 |
| 1 | 62 | 16.88 | 16.87 | 33.644 | 24.505 | 344.0 | 0.218 | 5.76 | 104.1 | 2.4 | 0.26 | 0.0 | 0.00 | 0.07 | 0.02 | 62 |
| 1 | 71 | 16.80 | 16.79 | 33.639 | 24.520 | 342.8 | 0.248 | 5.72 | 103.2 | 2.0 | 0.26 | 0.0 | 0.00 | 0.07 | 0.01 | 72 |
| 1 | 75 ISL | 16.77 | 16.76 | 33.635 | 24.524 | 342.5 | 0.262 | 5.71 | 103.0 | 1.9 | 0.26 | 0.0 | 0.00 | 0.07 | 0.01 | 76 |
| 1 | 82 | 16.70 | 16.69 | 33.626 | 24.534 | 341.8 | 0.286 | 5.70 | 102.7 | 1.8 | 0.27 | 0.0 | 0.00 | 0.08 | 0.02 | 83 |
| 1 | 96 | 16.48 | 16.46 | 33.605 | 24.569 | 338.9 | 0.334 | 5.68 | 101.9 | 1.7 | 0.28 | 0.0 | 0.00 | 0.11 | 0.05 | 97 |
| 1 | 100 ISL | 16.55 | 16.53 | 33.639 | 24.580 | 338.1 | 0.347 | 5.67 | 101.8 | 1.7 | 0.28 | 0.0 | 0.00 | 0.11 | 0.05 | 101 |
| 1 | 111 | 16.75 | 16.73 | 33.752 | 24.620 | 334.6 | 0.384 | 5.65 | 101.9 | 1.8 | 0.26 | 0.0 | 0.00 | 0.11 | 0.06 | 112 |
| 1 | 125 ISL | 16.46 | 16.44 | 33.824 | 24.743 | 323.4 | 0.430 | 5.58 | 100.1 | 1.9 | 0.26 | 0.0 | 0.00 | 0.21 | 0.18 | 126 |
| 1 | 126 | 16.44 | 16.42 | 33.834 | 24.756 | 322.2 | 0.434 | 5.57 | 99.9 | 1.9 | 0.26 | 0.0 | 0.00 | 0.22 | 0.19 | 127 |
| 1 | 150 ISL | 13.87 | 13.85 | 33.738 | 25.244 | 275.9 | 0.505 | 5.22 | 88.9 | 4.6 | 0.52 | 3.6 | 0.05 | 0.14 | 0.20 | 151 |
| 1 | 151 | 13.74 | 13.72 | 33.733 | 25.267 | 273.7 | 0.508 | 5.20 | 88.3 | 4.8 | 0.54 | 3.8 | 0.05 | 0.14 | 0.20 | 152 |
| 1 | 176 | 11.83 | 11.81 | 33.686 | 25.605 | 241.6 | 0.572 | 4.77 | 77.8 | 9.3 | 0.89 | 10.2 | 0.01 | 0.06 | 0.08 | 177 |
| 1 | 200 ISL | 10.26 | 10.24 | 33.734 | 25.924 | 211.4 | 0.627 | 4.50 | 71.0 | 14.5 | 1.19 | 15.5 | 0.01 | 0.02 | 0.04 | 202 |
| 1 | 204 | 10.04 | 10.02 | 33.748 | 25.972 | 206.8 | 0.635 | 4.46 | 70.0 | 15.4 | 1.24 | 16.3 | 0.01 | 0.01 | 0.03 | 206 |
| 1 | 232 | 9.14 | 9.11 | 33.854 | 26.203 | 185.1 | 0.690 | 4.13 | 63.6 | 22.0 | 1.51 | 20.6 | 0.00 | | | 234 |
| 1 | 250 ISL | 8.75 | 8.72 | 33.909 | 26.307 | 175.4 | 0.723 | 4.07 | 62.1 | 25. | | | | | | |

DAVID STARR JORDAN

PRIMARY PRODUCTIVITY CASTS

CALCOFI CRUISE 8705

STATION 77 55

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|-----------|-------|----------|------------|---------|-----------|------|-----------|------|--------------|-------|-----------------|-------|----------|-----------|----------------|------|------------------|--|--|
| 34 53.3 N | | | 121 11.9 W | | 13/ 5/87 | | 1945 GMT | | 11 M | | 1201 - 1925 +08 | | 1201 +08 | | 1924 +08 | | 726.9 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | | | |
| 0 | 14.28 | 33.622 | 25.064 | 6.39 | 109.7 | 7.3 | 0.45 | 1.9 | 0.03 | 1.01 | 0.17 | 99. | 39.2 | 38.9 | 39.0 | 0.77 | | | |
| 7 | 14.19 | 33.621 | 25.083 | 6.38 | 109.4 | 8.6 | 0.47 | 2.0 | 0.03 | 0.82 | 0.16 | 38. | 33.4 | 35.0 | 34.2 | 0.80 | | | |
| 12 | 14.14 | 33.618 | 25.091 | 6.30 | 107.9 | 8.9 | 0.54 | 2.3 | 0.03 | 1.48* | 1.18* | 19. | 39.4 | 39.4 | 39.4 | 1.1 | | | |
| 21 | 13.70 | 33.612 | 25.178 | 6.23 | 105.7 | 9.7 | 0.60 | 4.0 | 0.04 | 0.58 | 0.32 | 5.1 | 9.8 | 8.4 | 9.1 | 0.39 | | | |
| 35 | 12.17 | 33.614 | 25.482 | 5.08 | 83.5 | 11.9 | 1.06 | 10.2 | 0.38 | 0.30 | 0.22 | 0.90 | 0.28 | 0.39 | 0.34 | 0.22 | | | |
| 46 | 11.43 | 33.605 | 25.613 | 4.73 | 76.5 | 13.5 | 1.23 | 13.0 | 0.50 | 0.40 | 0.48 | 0.20 | 0.12 | 0.08 | 0.10 | 0.18 | | | |

*DOLIOLID PRESENT IN SAMPLE. AMBER COLORED ACETONE EXTRACT.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 77 100

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|-----------|-------|----------|------------|---------|-----------|------|-----------|------|--------------|------|-----------------|-------|----------|-----------|----------------|------|------------------|--|--|
| 33 23.3 N | | | 124 19.4 W | | 12/ 5/87 | | 1850 GMT | | 31 M | | 1210 - 1930 +08 | | 1213 +08 | | 1930 +08 | | 79.2 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | | | |
| 1 | 15.60 | 33.169 | 24.430 | 5.84 | 102.7 | 1.8 | 0.34 | 0.0 | 0.00 | 0.06 | 0.02 | 99. | 0.97 | 0.75 | 0.86 | 0.14 | | | |
| 21 | 15.55 | 33.167 | 24.440 | 5.82 | 102.3 | 1.8 | 0.34 | 0.0 | 0.00 | 0.06 | 0.01 | 38. | 1.1 | 0.97 | 1.1 | 0.13 | | | |
| 36 | 15.52 | 33.160 | 24.442 | 5.83 | 102.4 | 1.8 | 0.34 | 0.0 | 0.00 | 0.07 | 0.01 | 19. | 1.2 | 1.0 | 1.1 | 0.15 | | | |
| 62 | 15.09 | 33.193 | 24.562 | 5.92 | 103.1 | 1.8 | 0.34 | 0.0 | 0.00 | 0.13 | 0.03 | 5.1 | 0.56 | 0.55 | 0.56 | 0.17 | | | |
| 96 | 14.92 | 33.401 | 24.760 | 5.83 | 101.3 | 2.8 | 0.31 | 0.0 | 0.00 | 0.18 | 0.20 | 0.90 | 0.32 | 0.25 | 0.28 | 0.09 | | | |
| 128 | 13.02 | 33.433 | 25.179 | 5.48 | 91.6 | 4.8 | 0.55 | 3.5 | 0.20 | 0.28 | 0.22 | 0.20 | 0.16 | 0.08 | 0.12 | 0.11 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 80 70

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|-----------|-------|----------|------------|---------|-----------|------|-----------|------|--------------|------|-----------------|-------|----------|-----------|----------------|------|------------------|--|--|
| 33 49.0 N | | | 121 50.6 W | | 11/ 5/87 | | 1931 GMT | | 22 M | | 1203 - 1927 +08 | | 1203 +08 | | 1927 +08 | | 565.2 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | | | |
| 1 | 13.20 | 33.281 | 25.022 | 6.19 | 103.8 | 6.2 | 0.67 | 4.1 | 0.12 | 0.67 | 0.22 | 99. | 12.0 | 12.3 | 12.2 | 0.18 | | | |
| 14 | 13.19 | 33.286 | 25.029 | 6.19 | 103.7 | 6.0 | 0.68 | 4.1 | 0.12 | 1.02 | 0.40 | 38. | 14.5 | 17.3 | 15.9 | 0.19 | | | |
| 24 | 13.14 | 33.288 | 25.040 | 6.18 | 103.5 | 5.9 | 0.69 | 4.2 | 0.12 | 1.05 | 0.40 | 19. | 14.8 | 16.6 | 15.7 | 0.24 | | | |
| 45 | 12.70 | 33.566 | 25.343 | 5.70 | 94.7 | 8.4 | 0.92 | 7.6 | 0.17 | 0.21 | 0.23 | 5.1 | 2.3 | 1.8 | 2.1 | 0.16 | | | |
| 69 | 10.07 | 33.548 | 25.808 | 3.88 | 60.9 | 18.4 | 1.54 | 19.6 | 0.08 | 0.20 | 0.31 | 0.90 | 0.03 | 0.00 | 0.01 | 0.34 | | | |
| 90 | 9.55 | 33.744 | 26.048 | 3.30 | 51.3 | 26.5 | 1.82 | 24.1 | 0.03 | 0.10 | 0.30 | 0.20 | 0.01 | 0.00 | 0.00 | 0.14 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 42

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|-----------|-------|----------|------------|---------|-----------|------|-----------|------|--------------|------|-----------------|-------|----------|-----------|----------------|------|------------------|--|--|
| 34 10.7 N | | | 119 30.5 W | | 10/ 5/87 | | 1925 GMT | | 16 M | | 1155 - 1919 +08 | | 1155 +08 | | 1920 +08 | | 689.3 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | | | |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | | | |
| 0 | 17.28 | 33.536 | 24.325 | 6.05 | 110.2 | 4.5 | 0.26 | 0.1 | 0.00 | 0.55 | 0.07 | 99. | 17.0 | 18.1 | 17.5 | 0.36 | | | |
| 9 | 16.61 | 33.524 | 24.474 | 6.13 | 110.2 | 4.5 | 0.26 | 0.1 | 0.00 | 0.51 | 0.09 | 38. | 18.8 | 19.6 | 19.2 | 0.48 | | | |
| 16 | 16.10 | 33.516 | 24.585 | 6.27 | 111.6 | 4.6 | 0.29 | 0.1 | 0.00 | 0.89 | 0.18 | 19. | 21.5 | 21.8 | 21.7 | 0.45 | | | |
| 30 | 12.99 | 33.507 | 25.240 | 5.18 | 86.6 | 8.5 | 0.77 | 3.9 | 0.76 | 1.11 | 0.60 | 5.1 | 12.7 | 12.2 | 12.5 | 0.30 | | | |
| 50 | 11.84 | 33.527 | 25.477 | 4.36 | 71.1 | 11.8 | 1.13 | 11.9 | 0.22 | 0.44 | 0.39 | 0.90 | 0.95 | 0.85 | 0.90 | 0.17 | | | |
| 66 | 10.68 | 33.648 | 25.781 | 3.75 | 59.7 | 17.9 | 1.45 | 18.0 | 0.02 | 0.09 | 0.15 | 0.20 | 0.03 | 0.06 | 0.05 | 0.09 | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 83 80

| LATITUDE | | | LONGITUDE | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|-----------|------|----------|-----------|---------|-----------|-----|-----------|--|--------------|--|-----------------|--|----------|--|----------------|--|------------------|--|--|
| 32 54.7 N | | | 122 7.7 W | | 9/ 5/87 | | 1927 GMT | | 25 M | | 1206 - 1918 +08 | | 1206 +08 | | 1917 +08 | | 415.7 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI0 | | | | | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|-------|----------|------------|-------|
| 33 49.4 N | 118 37.7 W | 6/ 5/87 | 1927 GMT | 15 M | 1152 - 1909 +08 | 1152 +08 | 1909 +08 | 626.9 MG C/M2 | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT |
| 0 | 17.94 | 33.527 | 24.160 | 6.01 | 110.8 | 3.3 | 0.22 | 0.0 | 0.00 | 0.38 | 0.04 | 99. |
| 10 | 17.27 | 33.525 | 24.320 | 6.17 | 112.3 | 3.3 | 0.22 | 0.0 | 0.00 | 0.47 | 0.06 | 38. |
| 17 | 15.79 | 33.484 | 24.630 | 6.41 | 113.4 | 3.1 | 0.24 | 0.0 | 0.00 | 0.63 | 0.13 | 19. |
| 30 | 13.35 | 33.468 | 25.138 | 5.92 | 99.7 | 5.3 | 0.43 | 0.3 | 0.05 | 2.04 | 0.44 | 5.1 |
| 46 | 11.90 | 33.520 | 25.460 | 4.56 | 74.5 | 11.2 | 1.02 | 11.3 | 0.06 | 0.95 | 0.42 | 0.90 |
| 62 | 11.34 | 33.567 | 25.600 | 3.99 | 64.4 | 14.2 | 1.29 | 14.6 | 0.34 | 0.56 | 0.34 | 0.20 |

DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|-------|----------|------------|---------|
| 32 59.5 N | 120 20.9 W | 7/ 5/87 | 1918 GMT | 28 M | 1155 - 1918 +08 | 1158 +08 | 1917 +08 | 666.5 MG C/M2 | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT |
| 0 | 15.07 | 33.553 | 24.842 | 6.02 | 105.0 | 4.5 | 0.42 | 1.3 | 0.05 | 0.31 | 0.05 | 99. |
| 19 | 14.42 | 33.552 | 24.981 | 5.98* | 103.0 | 4.7 | 0.53 | 2.8 | 0.08 | 0.46 | 0.19 | 38. |
| 32 | 13.67 | 33.564 | 25.147 | 6.16 | 104.4 | 4.9 | 0.63 | 4.0 | 0.11 | 0.56 | 0.19 | 19. |
| 55 | 12.30 | 33.427 | 25.312 | 5.78 | 95.1 | 6.4 | 0.80 | 6.4 | 0.18 | 0.58 | 0.29 | 5.1 |
| 86 | 10.36 | 33.672 | 25.856 | 3.86 | 61.0 | 20.2 | 1.59 | 20.1 | 0.39 | 0.23 | 0.16 | 0.90 |
| 114 | 9.78 | 33.835 | 26.082 | 2.90 | 45.3 | 25.5 | 1.84 | 24.3 | 0.02 | 0.07 | 0.20 | -0.01** |

*AN ERROR OF 0.1 ML (0.75 ML/L) IN THE OXYGEN TITER HAS BEEN ASSUMED FOR THIS VALUE.

**DARK UPTAKE EXCEED LIGHT UPTAKE.

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 87 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|-------|----------|------------|-------|
| 31 19.4 N | 123 44.3 W | 8/ 5/87 | 2002 GMT | 35 M | 1217 - 1930 +08 | 1212 +08 | 1928 +08 | 138.4 MG C/M2 | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT |
| 1 | 16.33 | 33.384 | 24.430 | 5.74 | 102.5 | 1.5 | 0.32 | 0.0 | 0.00 | 0.08 | 0.01 | 99. |
| 23 | 16.31 | 33.388 | 24.439 | 5.75 | 102.7 | 1.5 | 0.31 | 0.0 | 0.00 | 0.09 | 0.02 | 38. |
| 39 | 16.28 | 33.412 | 24.465 | 5.77 | 103.0 | 2.2 | 0.31 | 0.0 | 0.00 | 0.10 | 0.02 | 19. |
| 70 | 15.63 | 33.549 | 24.718 | 5.86 | 103.3 | 1.9 | 0.28 | 0.0 | 0.00 | 0.14 | 0.05 | 5.1 |
| 109 | 13.51 | 33.453 | 25.096 | 5.58 | 94.2 | 3.5 | 0.48 | 2.4 | 0.07 | 0.25 | 0.14 | 0.90 |
| 144 | 10.84 | 33.432 | 25.586 | 4.58 | 73.0 | 11.4 | 1.16 | 13.7 | 0.01 | 0.05 | 0.07 | 0.20 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|-------|----------|------------|-------|
| 32 55.1 N | 118 56.1 W | 5/ 5/87 | 1923 GMT | 11 M | 1153 - 1905 +08 | 1153 +08 | 1905 +08 | 570.9 MG C/M2 | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT |
| 0 | 15.98 | 33.568 | 24.652 | 6.11 | 108.5 | 6.4 | 0.38 | 1.3 | 0.04 | 0.73 | 0.08 | 99. |
| 7 | 15.56 | 33.567 | 24.745 | 6.12 | 107.8 | 6.3 | 0.37 | 1.3 | 0.04 | 0.84 | 0.11 | 38. |
| 12 | 14.95 | 33.568 | 24.880 | 6.21 | 108.1 | 6.4 | 0.38 | 1.5 | 0.05 | 0.87 | 0.18 | 19. |
| 21 | 14.22 | 33.567 | 25.035 | 6.10 | 104.6 | 7.5 | 0.48 | 2.7 | 0.08 | 1.31 | 0.33 | 5.1 |
| 35 | 12.13 | 33.596 | 25.475 | 5.15 | 84.6 | 11.6 | 0.97 | 10.1 | 0.34 | 1.28 | 0.51 | 0.90 |
| 47 | 11.11 | 33.649 | 25.705 | 4.26 | 68.5 | 16.8 | 1.35 | 15.9 | 0.53 | 0.46 | 0.27 | 0.20 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE |
|-----------|------------|-----------|-----------|---------|-----------------|------------|----------|---------------|-------|----------|------------|-------|
| 31 45.0 N | 121 19.0 W | 4/ 5/87 | 1927 GMT | 24 M | 1159 - 1911 +08 | 1202 +08 | 1911 +08 | 326.3 MG C/M2 | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT |
| M | DEG C | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT |
| 0 | 15.30 | 33.298 | 24.595 | 5.92 | 103.6 | 2.3 | 0.35 | 0.0 | 0.00 | 0.12 | 0.02 | 99. |
| 16 | 15.18 | 33.298 | 24.622 | 5.93 | 103.5 | 2.2 | 0.35 | 0.0 | 0.00 | 0.13 | 0.02 | 38. |
| 26 | 15.12 | 33.292 | 24.631 | 5.94 | 103.6 | 1.9 | 0.35 | 0.0 | 0.00 | 0.13 | 0.03 | 19. |
| 47 | 13.46 | 33.313 | 24.996 | 6.08 | 102.5 | 2.4 | 0.43 | 0.8 | 0.09 | 0.63 | 0.20 | 5.1 |
| 75 | 12.94 | 33.385 | 25.156 | 5.86 | 97.7 | 3.1 | 0.63 | 2.8 | 0.21 | 0.35 | 0.25 | 0.90 |
| 98 | 12.30 | 33.439 | 25.323 | 5.45 | 89.7 | 6.5 | 0.86 | 6.8 | 0.50 | 0.16 | 0.19 | 0.20 |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 90 120

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------------------|-------|----------|-----------|------|-----------|------|--------------|------|-----------------|------|------|----------|-------|----------------|-----------|------------------|------|--|
| 30 25.0 N 123 59.9 W | | | 3/ 5/87 | | 1925 GMT | | 30 M | | 1208 - 1917 +08 | | | 1213 +08 | | 1917 +08 | | 59.3 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | |
| M | DEG C | | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | |
| 1 | 17.02 | 33.663 | 24.484 | 5.66 | 102.6 | 2.4 | 0.28 | 0.1 | 0.00 | 0.06 | 0.01 | 99. | 0.97 | 0.84 | 0.90 | 0.12 | | |
| 21 | 17.01 | 33.663 | 24.488 | 5.67 | 102.8 | 2.4 | 0.28 | 0.1 | 0.00 | 0.06 | 0.01 | 38. | 0.95 | 0.84 | 0.89 | 0.12 | | |
| 35 | 16.97 | 33.666 | 24.500 | 5.67 | 102.7 | 2.3 | 0.28 | 0.1 | 0.00 | 0.07 | 0.01 | 19. | 0.91 | 0.85 | 0.88 | 0.11 | | |
| 61 | 16.83 | 33.703 | 24.562 | 5.70 | 103.0 | 2.3 | 0.27 | 0.1 | 0.00 | 0.08 | 0.01 | 5.1 | 0.34 | 0.37 | 0.36 | 0.13 | | |
| 93 | 16.46 | 33.917 | 24.813 | 5.60 | 100.6 | 2.6 | 0.25 | 0.0 | 0.00 | 0.13 | 0.05 | 0.90 | 0.13 | 0.12 | 0.13 | 0.08 | | |
| 124 | 14.40 | 33.773 | 25.159 | 5.38 | 92.7 | 3.9 | 0.43 | 2.0 | 0.10 | 0.28 | 0.19 | 0.20 | 0.14 | 0.13 | 0.14 | 0.05 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 50

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------------------|-------|----------|-----------|------|-----------|------|--------------|------|-----------------|------|------|----------|-------|----------------|-----------|------------------|------|--|
| 32 10.8 N 118 53.5 W | | | 1/ 5/87 | | 1949 GMT | | 20 M | | 1206 - 1905 +08 | | | 1153 +08 | | 1905 +08 | | 409.4 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | |
| M | DEG C | | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | |
| 0 | 14.61 | 33.350 | 24.784 | 6.09 | 105.1 | 2.1 | 0.39 | 0.4 | 0.03 | 0.37 | 0.08 | 99. | 4.6 | 4.7 | 4.7 | 0.16 | | |
| 12 | 14.50 | 33.352 | 24.810 | 6.11 | 105.2 | 2.0 | 0.39 | 0.4 | 0.03 | 0.36 | 0.09 | 38. | 10.3 | 10.3 | 10.3 | 0.19 | | |
| 21 | 14.40 | 33.355 | 24.833 | 6.12 | 105.2 | 2.1 | 0.41 | 0.6 | 0.03 | 0.47 | 0.10 | 19. | 12.3 | 12.5 | 12.4 | 0.20 | | |
| 40 | 13.26 | 33.346 | 25.062 | 5.82 | 97.7 | 3.3 | 0.57 | 2.6 | 0.25 | 0.40 | 0.20 | 5.1 | 4.2 | 4.6 | 4.4 | 0.13 | | |
| 61 | 12.51 | 33.386 | 25.240 | 5.42 | 89.6 | 6.7 | 0.77 | 6.2 | 0.39 | 0.33 | 0.20 | 0.00 | 0.27 | 0.61 | 0.44 | 0.09 | | |
| 81 | 11.87 | 33.496 | 25.448 | 5.18 | 84.5 | 8.9 | 0.98 | 9.4 | 0.19 | 0.26 | 0.17 | 0.20 | 0.23 | 0.25 | 0.24 | 0.06 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8705

STATION 93 90

| LATITUDE LONGITUDE | | | DAY/MO/YR | | MESSENGER | | SECCHI DEPTH | | INCUBATION TIME | | | LAN | | CIVIL TWILIGHT | | INTEGRATED VALUE | | |
|----------------------|-------|----------|-----------|------|-----------|------|--------------|------|-----------------|------|------|----------|-------|----------------|-----------|------------------|------|--|
| 30 50.8 N 121 35.4 W | | | 2/ 5/87 | | 1925 GMT | | 30 M | | 1158 - 1913 +08 | | | 1203 +08 | | 1913 +08 | | 98.8 MG C/M2 | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | | |
| M | DEG C | | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK | |
| 0 | 16.28 | 33.339 | 24.407 | 5.77 | 102.9 | 1.7 | 0.34 | 0.1 | 0.00 | 0.06 | 0.01 | 99. | 0.69 | 0.70 | 0.69 | 0.09 | | |
| 19 | 16.23 | 33.336 | 24.417 | 5.77 | 102.8 | 1.7 | 0.33 | 0.1 | 0.00 | 0.06 | 0.01 | 38. | 0.97 | 0.93 | 0.95 | 0.10 | | |
| 33 | 16.01 | 33.312 | 24.449 | 5.81 | 103.1 | 2.2 | 0.34 | 0.1 | 0.00 | 0.06 | 0.02 | 19. | 0.98 | 1.1 | 1.0 | 0.10 | | |
| 59 | 15.58 | 33.357 | 24.581 | 5.85 | 102.9 | 2.1 | 0.33 | 0.1 | 0.00 | 0.08 | 0.02 | 5.1 | 0.59 | 0.66 | 0.62 | 0.11 | | |
| 93 | 14.04 | 33.379 | 24.930 | 5.77 | 98.5 | 2.8 | 0.41 | 0.6 | 0.04 | 0.69 | 0.31 | 0.90 | 0.98 | 1.1 | 1.0 | 0.08 | | |
| 123 | 12.28 | 33.494 | 25.370 | 4.67 | 76.9 | 8.5 | 0.92 | 9.2 | 0.12 | 0.39 | 0.25 | 0.20 | 0.42 | 0.38 | 0.40 | 0.02 | | |

Secchi Disk Observations

CalCOFI Cruise 8705

| Line | Sta. | Day | Mo | Local Time (+8: PST) | Secchi Depth (m) | Forel Water Color | Weather | Clouds Type/Amt |
|------|------|-----|----|----------------------------|------------------------|-------------------------|---------|--------------------|
| 77 | 49 | 13 | 5 | 1530 | 11 | 5 | 2 | ST 8/8 |
| 77 | 51 | 13 | 5 | 1320 | 12 | 5 | 2 | ST 8/8 |
| 77 | 55 | 13 | 5 | 1130 | 11 | 5 | 4 | - - |
| 77 | 60 | 13 | 5 | 1700 | 18 | 4 | 2 | Sc 8/8 |
| 77 | 90 | 12 | 5 | 1440 | 23 | 3 | 2 | ST 8/8 |
| 77 | 100 | 12 | 5 | 1035 | 31 | 2 | 2 | SC 8/8 |
| 80 | 70 | 11 | 5 | 1114 | 22 | 3 | 2 | SC 8/8 |
| 80 | 80 | 11 | 5 | 1555 | 26 | 2 | 1 | ST 6/8 |
| 82 | 47 | 10 | 5 | 1720 | 7 | 4 | 1 | AC 5/8 |
| 83 | 40.6 | 10 | 5 | 1310 | 17 | 3 | 2 | ST 8/8 |
| 83 | 42 | 10 | 5 | 1114 | 16 | 4 | 2 | SC 8/8 |
| 83 | 70 | 9 | 5 | 1534 | 22 | 2 | 2 | ST 8/8 |
| 83 | 80 | 9 | 5 | 1111 | 25 | 2 | 2 | SC 8/8 |
| 83 | 110 | 8 | 5 | 1715 | 31 | 1 | 2 | SC 8/8 |
| 87 | 33 | 6 | 5 | 0926 | 11 | 4 | 2 | CI 8/8 |
| 87 | 35 | 6 | 5 | 1118 | 15 | 4 | 2 | CI 8/8 |
| 87 | 39.5 | 6 | 5 | 1630 | 18 | 3 | 1 | ST 6/8 |
| 87 | 55 | 7 | 5 | 0600 | 28 | 3 | 4 | CI 8/8 |
| 87 | 60 | 7 | 5 | 1106 | 28 | 3 | 2 | CI 8/8 |
| 87 | 70 | 7 | 5 | 1500 | 22 | 2 | 2 | SC 8/8 |
| 87 | 110 | 8 | 5 | 1145 | 35 | 1 | 2 | SC 8/8 |
| 90 | 37 | 5 | 5 | 1733 | 14 | 3 | 1 | CI 1/8 |
| 90 | 45 | 5 | 5 | 1115 | 11 | 4 | 0 | - 0 |
| 90 | 70 | 4 | 5 | 1730 | 26 | 2 | 0 | - 0 |
| 90 | 80 | 4 | 5 | 1115 | 24 | 2 | 0 | - 0 |
| 90 | 90 | 4 | 5 | 0600 | 25 | 1 | | ST 2/8 |
| 90 | 120 | 3 | 5 | 1110 | 30 | 1 | | ST 7/8 |
| 93.4 | 26.4 | 30 | 4 | 1500 | 7 | 5 | | CI 1/8 |
| 93 | 26.7 | 30 | 4 | 1540 | 17 | 2 | | CI 1/8 |
| 93 | 45 | 1 | 5 | 0820 | 13 | 4 | | ST 2/8 |
| 93 | 50 | 1 | 5 | 1138 | 20 | 4 | | CU 1/8 |
| 93 | 55 | 1 | 5 | 1535 | 16 | 3 | | CI 2/8 |
| 93 | 80 | 2 | 5 | 0627 | 20 | 2 | | ST 5/8 |
| 93 | 90 | 2 | 5 | 1110 | 30 | 2 | | ST 4/8 |
| 93 | 100 | 2 | 5 | 1710 | 29 | 2 | | CU 6/8 |

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

| Line | Sta. | Position | Date Mo/Day | Time (GMT) | | Water Volume Strained (m) | Max. Tow Depth (m) | Volume per 1000 m Strained | | |
|------|------|----------|----------------|------------|------|------------------------------|-----------------------|-------------------------------|------------|-----|
| | | | | Start | End | | | Total (cm) | Small (cm) | |
| 77 | 49 | 35 05.3N | 120 46.6W | 5/14 | 0020 | 0027 | 116 | 55 | 173 | 173 |
| 77 | 51 | 35 01.3N | 120 55.1W | 5/13 | 2210 | 2232 | 419 | 210 | 86 | 86 |
| 77 | 55 | 34 53.3N | 121 11.9W | 5/13 | 1902 | 1924 | 388 | 209 | 325 | 325 |
| 77 | 60 | 34 43.3N | 121 32.9W | 5/13 | 1523 | 1545 | 393 | 206 | 183 | 153 |
| 77 | 70 | 34 23.3N | 122 14.8W | 5/13 | 2017 | 2039 | 418 | 208 | 69 | 69 |
| 77 | 80 | 34 03.3N | 122 56.5W | 5/13 | 0517 | 0539 | 413 | 213 | 48 | 48 |
| 77 | 90 | 33 43.3N | 123 38.0W | 5/13 | 0010 | 0032 | 437 | 203 | 25 | 25 |
| 77 | 100 | 33 23.3N | 124 19.4W | 5/12 | 1800 | 1822 | 418 | 211 | 17 | 17 |
| 80 | 51 | 34 27.0N | 120 31.4W | 5/11 | 0729 | 0736 | 121 | 57 | 438 | 438 |
| 80 | 55 | 34 19.0N | 120 48.1W | 5/11 | 1023 | 1045 | 418 | 212 | 89 | 89 |
| 80 | 60 | 34 09.0N | 121 09.0W | 5/11 | 1354 | 1416 | 387 | 209 | 204 | 155 |
| 80 | 70 | 33 49.0N | 121 50.6W | 5/11 | 1941 | 2003 | 376 | 212 | 202 | 202 |
| 80 | 80 | 33 29.0N | 122 32.0W | 5/12 | 0120 | 0142 | 426 | 208 | 45 | 45 |
| 80 | 90 | 33 09.0N | 123 13.2W | 5/12 | 0748 | 0810 | 405 | 210 | 35 | 35 |
| 80 | 100 | 32 49.0N | 123 54.5W | 5/12 | 1246 | 1308 | 420 | 203 | 57 | 57 |
| 82 | 47 | 34 17.0N | 120 02.0W | 5/11 | 0345 | 0407 | 420 | 208 | 462 | 462 |
| 83 | 40.6 | 34 13.4N | 119 24.7W | 5/10 | 2230 | 2234 | 60 | 28 | 84 | 84 |
| 83 | 42 | 34 10.7N | 119 30.5W | 5/10 | 2010 | 2028 | 337 | 178 | 362 | 362 |
| 83 | 51 | 33 52.7N | 120 08.0W | 5/10 | 1246 | 1256 | 187 | 92 | 85 | 85 |
| 83 | 55 | 33 44.7N | 120 24.5W | 5/10 | 0941 | 1003 | 408 | 214 | 96 | 96 |
| 83 | 60 | 33 34.7N | 120 45.3W | 5/10 | 0545 | 0607 | 368 | 214 | 206 | 206 |
| 83 | 70 | 33 14.7N | 121 26.6W | 5/10 | 0035 | 0057 | 399 | 209 | 60 | 60 |
| 83 | 80 | 32 54.7N | 122 07.7W | 5/9 | 1826 | 1848 | 402 | 214 | 139 | 139 |
| 83 | 90 | 32 34.7N | 122 48.7W | 5/9 | 1308 | 1330 | 410 | 204 | 95 | 95 |
| 83 | 100 | 32 14.7N | 123 29.5W | 5/9 | 0738 | 0800 | 396 | 214 | 63 | 63 |
| 83 | 110 | 31 54.7N | 124 10.2W | 5/9 | 0228 | 0250 | 407 | 205 | 47 | 47 |
| 87 | 33 | 33 53.4N | 118 29.4W | 5/6 | 1802 | 1808 | 102 | 47 | 334 | 334 |
| 87 | 35 | 33 49.4N | 118 37.7W | 5/6 | 2105 | 2127 | 411 | 215 | 144 | 144 |
| 87 | 39.5 | 33 40.4N | 118 56.4W | 5/7 | 0255 | 0317 | 399 | 209 | 100 | 100 |
| 87 | 45 | 33 29.4N | 119 19.1W | 5/7 | 0755 | 0817 | 413 | 210 | 131 | 131 |
| 87 | 50 | 33 19.4N | 119 39.8W | 5/7 | 1114 | 1121 | 117 | 55 | 231 | 231 |
| 87 | 55 | 33 09.4N | 120 00.4W | 5/7 | 1508 | 1530 | 394 | 205 | 137 | 137 |
| 87 | 60 | 32 59.4N | 120 21.0W | 5/7 | 1829 | 1851 | 377 | 210 | 271 | 210 |
| 87 | 70 | 32 39.4N | 121 02.0W | 5/8 | 0000 | 0022 | 404 | 209 | 111 | 111 |
| 87 | 80 | 32 19.4N | 121 42.9W | 5/8 | 0517 | 0539 | 394 | 214 | 58 | 58 |
| 87 | 90 | 31 59.4N | 122 23.6W | 5/8 | 1010 | 1032 | 405 | 209 | 49 | 49 |
| 87 | 100 | 31 39.4N | 123 04.2W | 5/8 | 1538 | 1600 | 408 | 205 | 37 | 37 |
| 87 | 110 | 31 19.4N | 123 44.3W | 5/8 | 2110 | 2132 | 396 | 212 | 23 | 23 |
| 90 | 28 | 33 29.1N | 117 46.1W | 5/6 | 1308 | 1315 | 120 | 61 | 342 | 342 |
| 90 | 30 | 33 25.1N | 117 54.4W | 5/6 | 1127 | 1149 | 398 | 209 | 95 | 95 |
| 90 | 35 | 33 15.1N | 118 15.0W | 5/6 | 0546 | 0608 | 414 | 209 | 225 | 225 |
| 90 | 37 | 33 11.2N | 118 23.2W | 5/6 | 0230 | 0252 | 422 | 207 | 95 | 95 |
| 90 | 45 | 32 55.1N | 118 56.1W | 5/5 | 2055 | 2117 | 416 | 211 | 65 | 65 |
| 90 | 53 | 32 39.1N | 119 29.0W | 5/5 | 1351 | 1413 | 439 | 203 | 27 | 27 |
| 90 | 60 | 32 25.1N | 119 57.6W | 5/5 | 0918 | 0940 | 443 | 207 | 59 | 59 |
| 90 | 70 | 32 05.1N | 120 38.3W | 5/5 | 0343 | 0405 | 413 | 210 | 36 | 36 |
| 90 | 80 | 31 45.0N | 121 19.0W | 5/4 | 2115 | 2137 | 407 | 211 | 91 | 91 |
| 90 | 90 | 31 25.1N | 121 59.5W | 5/4 | 1451 | 1513 | 431 | 209 | 16 | 16 |
| 90 | 100 | 31 05.1N | 122 39.7W | 5/4 | 0848 | 0910 | 441 | 211 | 29 | 29 |
| 90 | 110 | 30 45.1N | 123 20.0W | 5/4 | 0227 | 0250 | 446 | 225 | 9 | 9 |
| 90 | 120 | 30 25.0N | 123 59.9W | 5/3 | 2020 | 2042 | 440 | 212 | 5 | 5 |
| 93 | 26.7 | 32 57.3N | 117 18.4W | 5/1 | 0115 | 0122 | 120 | 54 | 266 | 266 |
| 93 | 28 | 32 54.8N | 117 23.7W | 5/1 | 0415 | 0437 | 414 | 213 | 80 | 80 |
| 93 | 30 | 32 50.8N | 117 31.9W | 5/1 | 0655 | 0717 | 414 | 212 | 70 | 70 |
| 93 | 35 | 32 40.8N | 117 52.5W | 5/1 | 1009 | 1031 | 412 | 207 | 61 | 61 |
| 93 | 40 | 32 30.7N | 118 12.8W | 5/1 | 1317 | 1339 | 410 | 206 | 41 | 41 |
| 93 | 45 | 32 20.8N | 118 33.3W | 5/1 | 1716 | 1738 | 418 | 211 | 134 | 134 |
| 93 | 50 | 32 10.8N | 118 53.5W | 5/1 | 2107 | 2129 | 458 | 197 | 57 | 57 |
| 93 | 55 | 32 00.7N | 119 14.0W | 5/2 | 0036 | 0058 | 453 | 205 | 68 | 68 |
| 93 | 60 | 31 50.9N | 119 34.3W | 5/2 | 0405 | 0427 | 432 | 218 | 65 | 65 |
| 93 | 70 | 31 30.8N | 120 14.8W | 5/2 | 0928 | 0950 | 434 | 216 | 21 | 21 |
| 93 | 80 | 31 10.7N | 120 55.3W | 5/2 | 1450 | 1512 | 431 | 209 | 33 | 33 |
| 93 | 90 | 30 50.8N | 121 35.4W | 5/2 | 2045 | 2107 | 447 | 207 | 16 | 16 |
| 93 | 100 | 30 30.8N | 122 15.5W | 5/3 | 0230 | 0252 | 439 | 211 | 20 | 20 |
| 93 | 110 | 30 10.9N | 122 55.3W | 5/3 | 0806 | 0828 | 430 | 210 | 28 | 28 |
| 93 | 120 | 29 50.7N | 123 35.3W | 5/3 | 1325 | 1347 | 437 | 211 | 7 | 7 |