

UNIVERSITY OF CALIFORNIA, SAN DIEGO SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

CalCOFI Cruise 8801
19 January – 2 February 1988

CalCOFI Cruise 8805
28 April – 12 May 1988

SIO Reference 88-23
15 January 1989

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

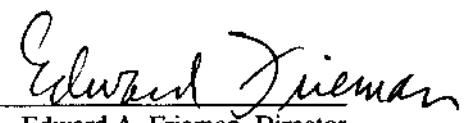
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Approved for distribution:


Edward A. Frieman, Director

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INTRODUCTION

The data in this report were collected during Cruises 8801*, and 8805 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program 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 8801 and 8805 were collected and processed by personnel of the Marine Life Research Group and the Southwest Fisheries Center, National Marine Fisheries Service. Volunteers and SIO Oceanographic Data Facility staff members also assisted in the collection of data and chemical analyses at sea.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts usually consisted of 20 3-l plastic (PVC) bottles lowered to a maximum sampling depth of 525 meters, bottom depth permitting. 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 200 meter hydrographic casts at a few non-standard CalCOFI sampling locations. Special near-bottom casts were done in the Santa Monica (Cruise 8805) and Santa Barbara (Cruises 8801 and 8805) Basins.

Paired protected reversing thermometers were used to determine temperatures which are recorded to hundredths of a degree Celsius. Most 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 standardized with substandard seawater. Periodic checks on the concentration of the substandard were made by comparison with Wormley Standard Seawater batch P-90 on 8801 and batch P-103 on 8805. Salinity values have been calculated from the algorithms for the Practical Salinity Scale, 1978 (PSS78, UNESCO, 1981a).

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 Gilbert, Pawley and Park (1967).

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). Due to analytical problems at sea, much of the phosphate data on cruise 8805 were lost and the remaining phosphate data are of unusually poor quality; the data should be used with caution. On a subsequent cruise, the problem was traced to a bad surfactant added to the phosphate reagents.

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 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 5-1 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 μ Ci of $\text{C}^{14}\text{NaHCO}_3$. These were incubated 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 millipore filters and placed in scintillation vials. One-half ml of 10% HC1 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 Coordinated Universal Time (UTC) 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,b). 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. Also shown are 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, assuming that the shallowest measured value extends to the surface and that negative values (when dark uptake exceeds light uptake) are zero. The uptake data have been presented to two significant digits (values <1.00) or one decimal (values >1.00). The higher production values may not warrant all of the digits presented. Incubation time, LAN, and civil twilight are given in local Pacific Standard Time (PST); to convert to UTC, add eight hours to the PST time.

Secchi Disk Observations

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

Macrozooplankton Data

Macrozooplankton biomass volumes are tabulated as total biomass volume (cm³/1000 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.

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

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FIGURES

Cruise 8801

1. CalCOFI Cruise 8801 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.

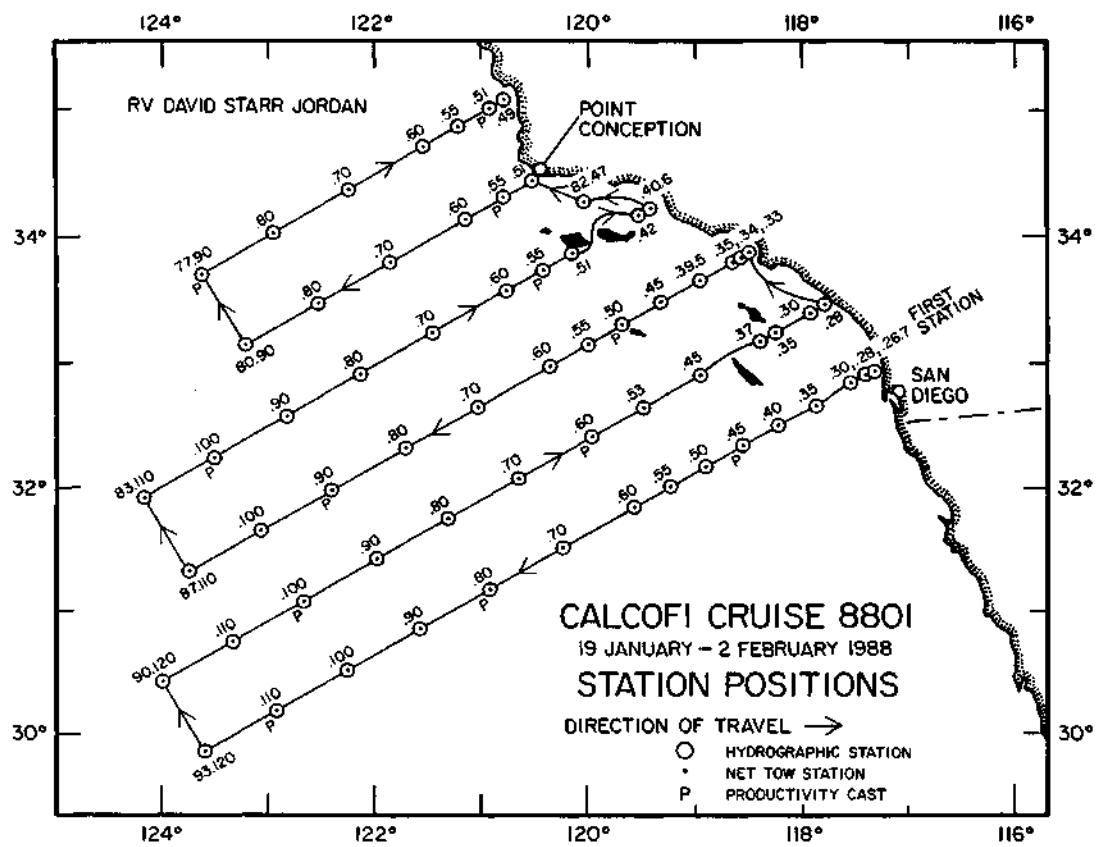


FIGURE 1

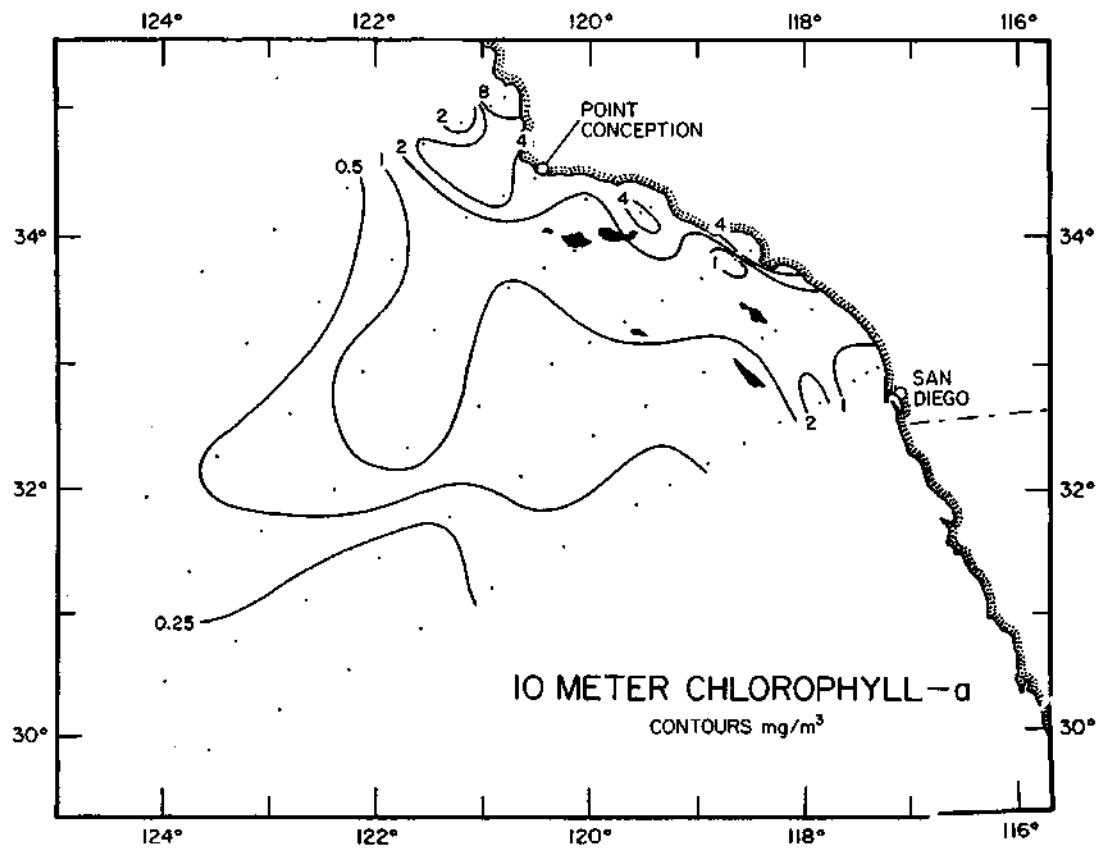


FIGURE 2

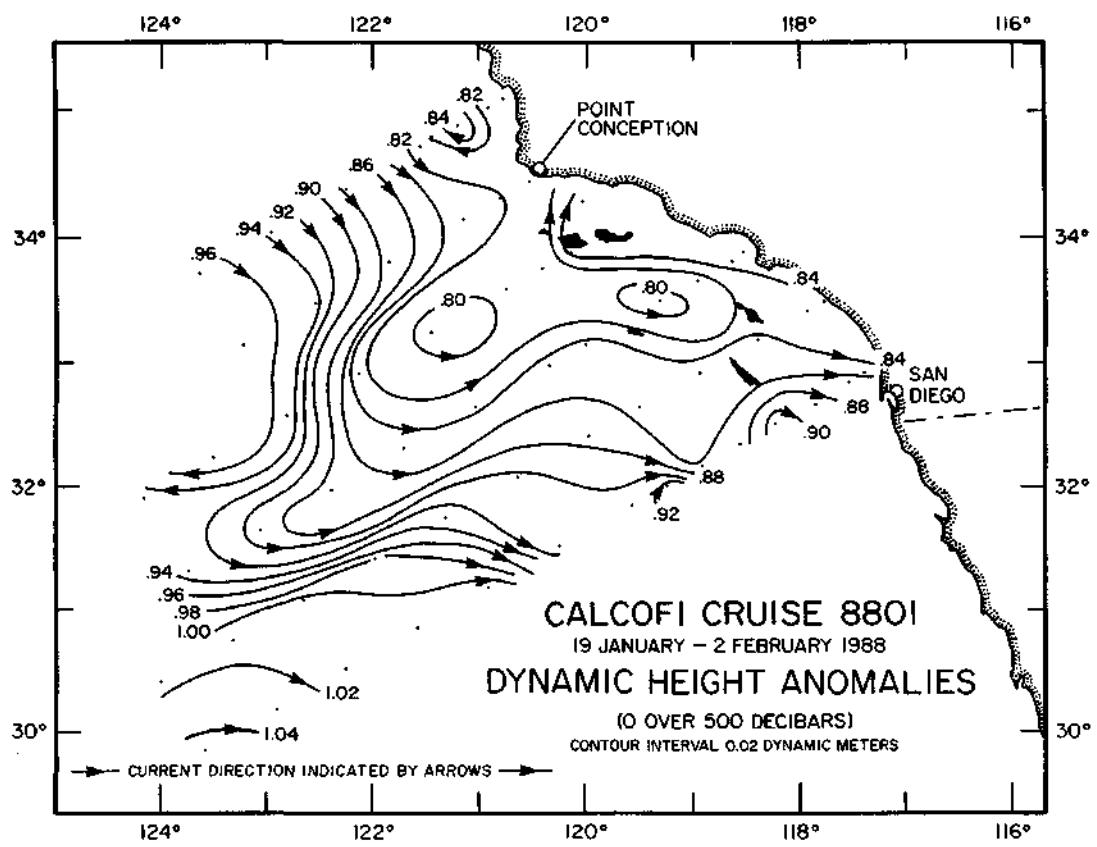


FIGURE 3

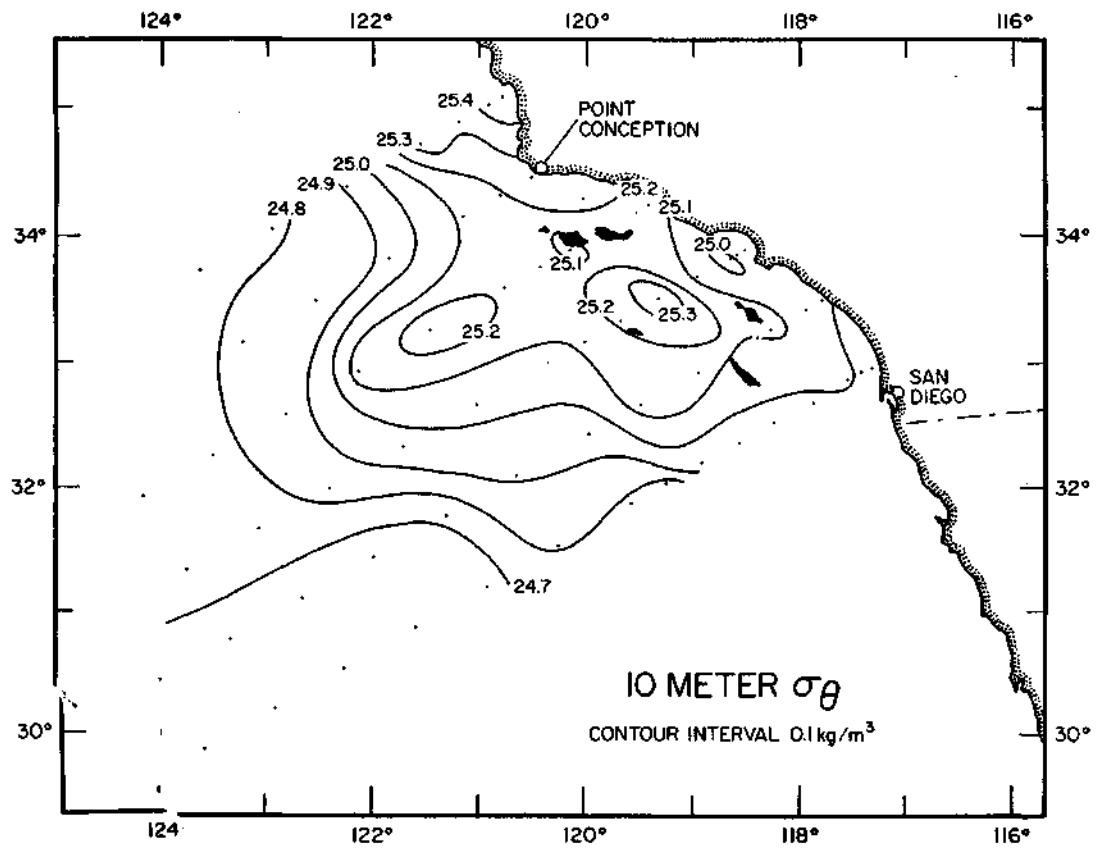


FIGURE 4

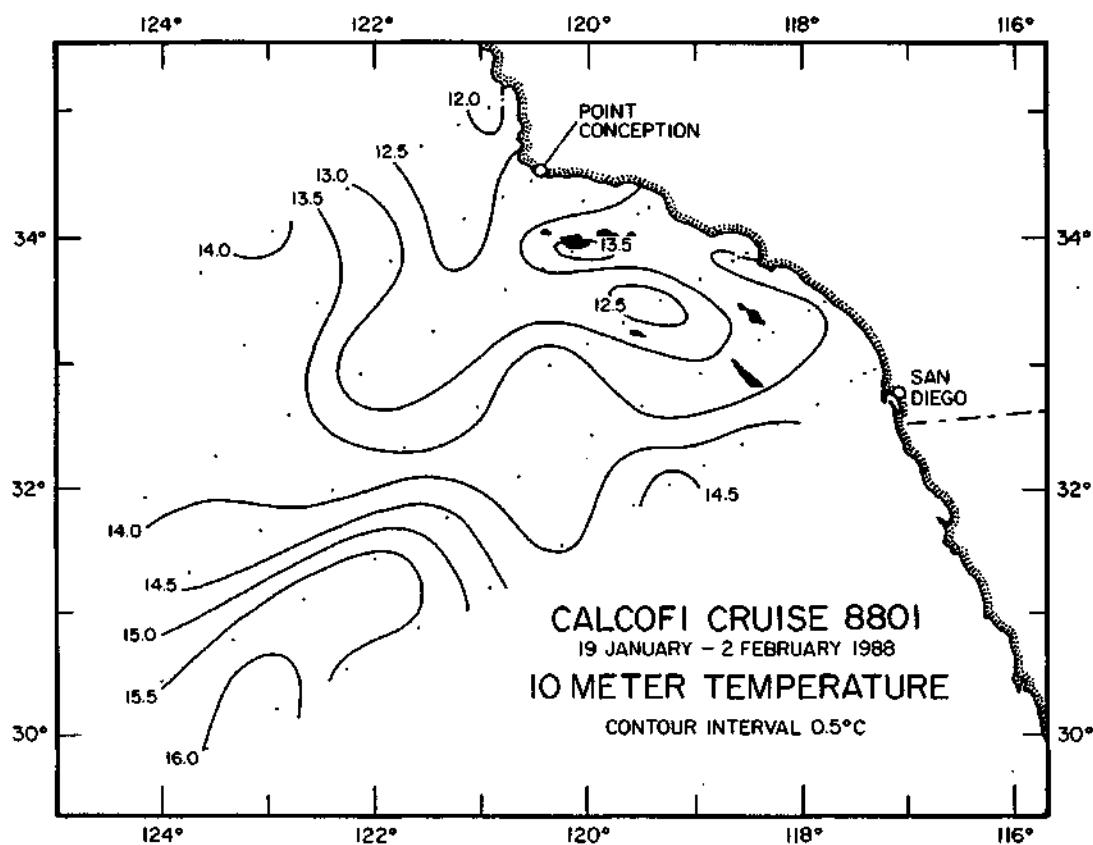


FIGURE 5

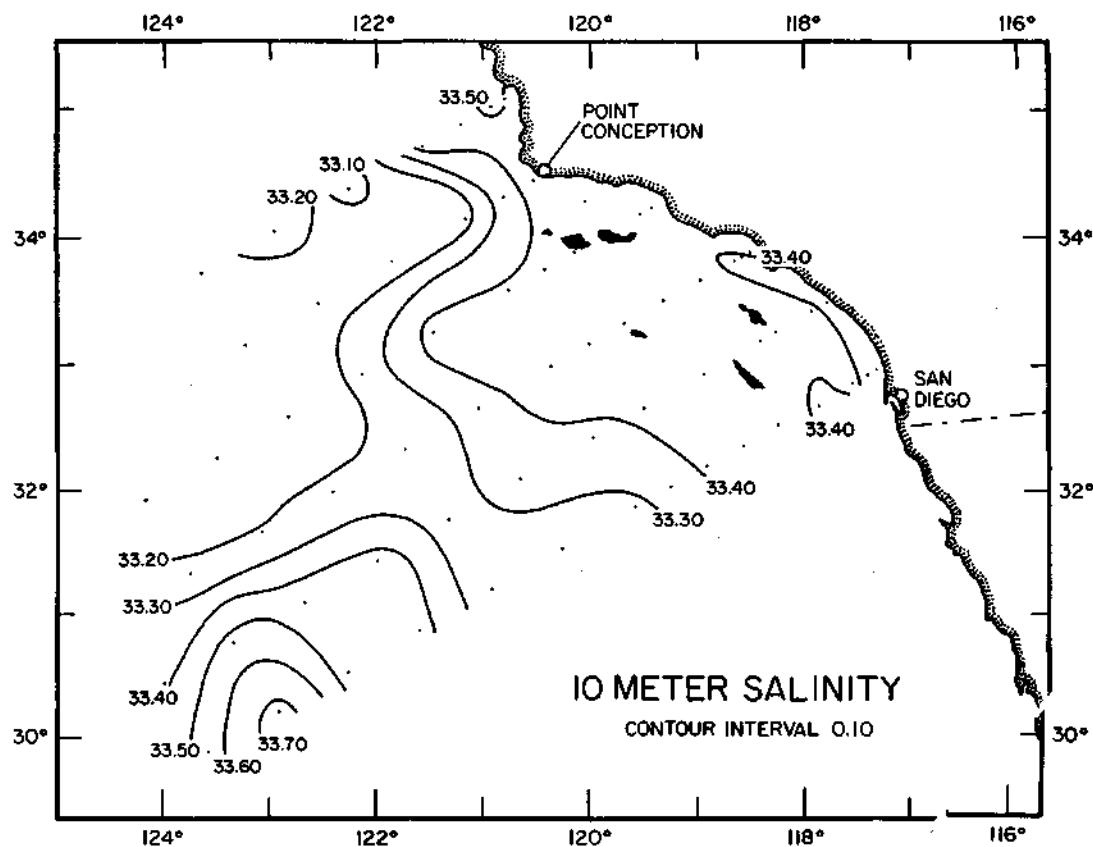


FIGURE 6

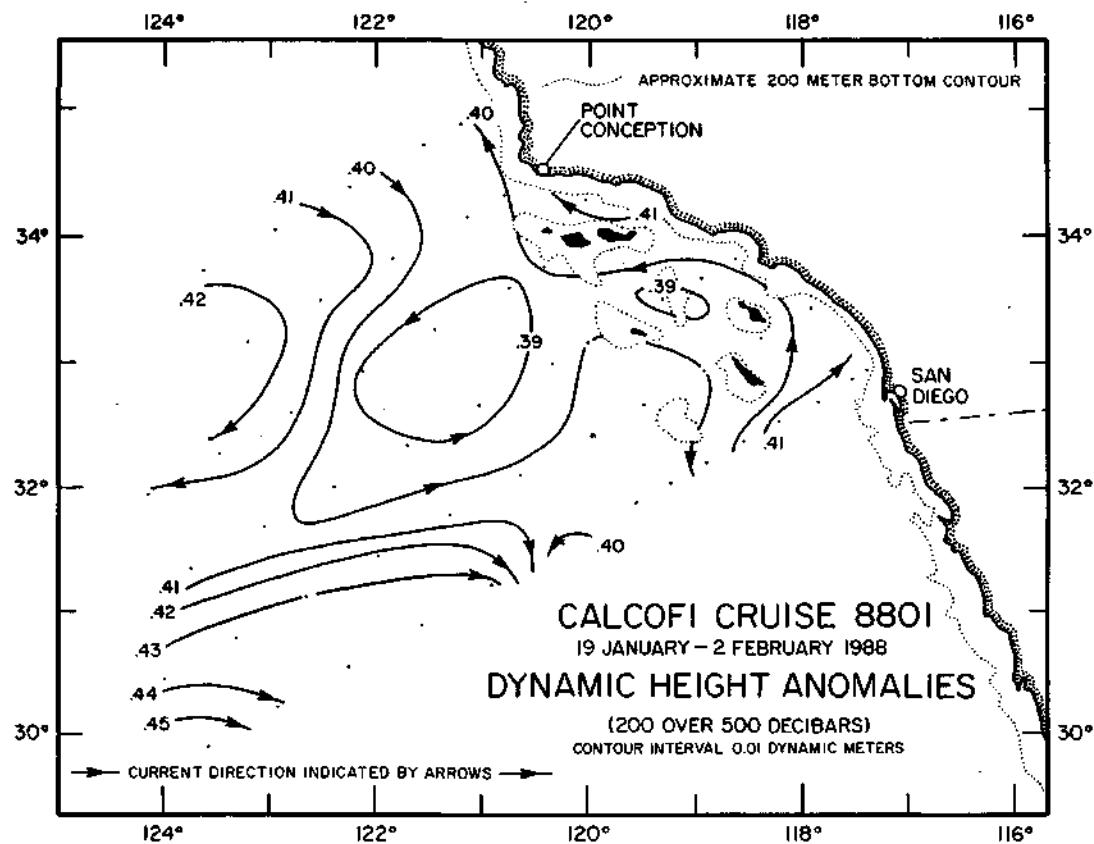


FIGURE 7

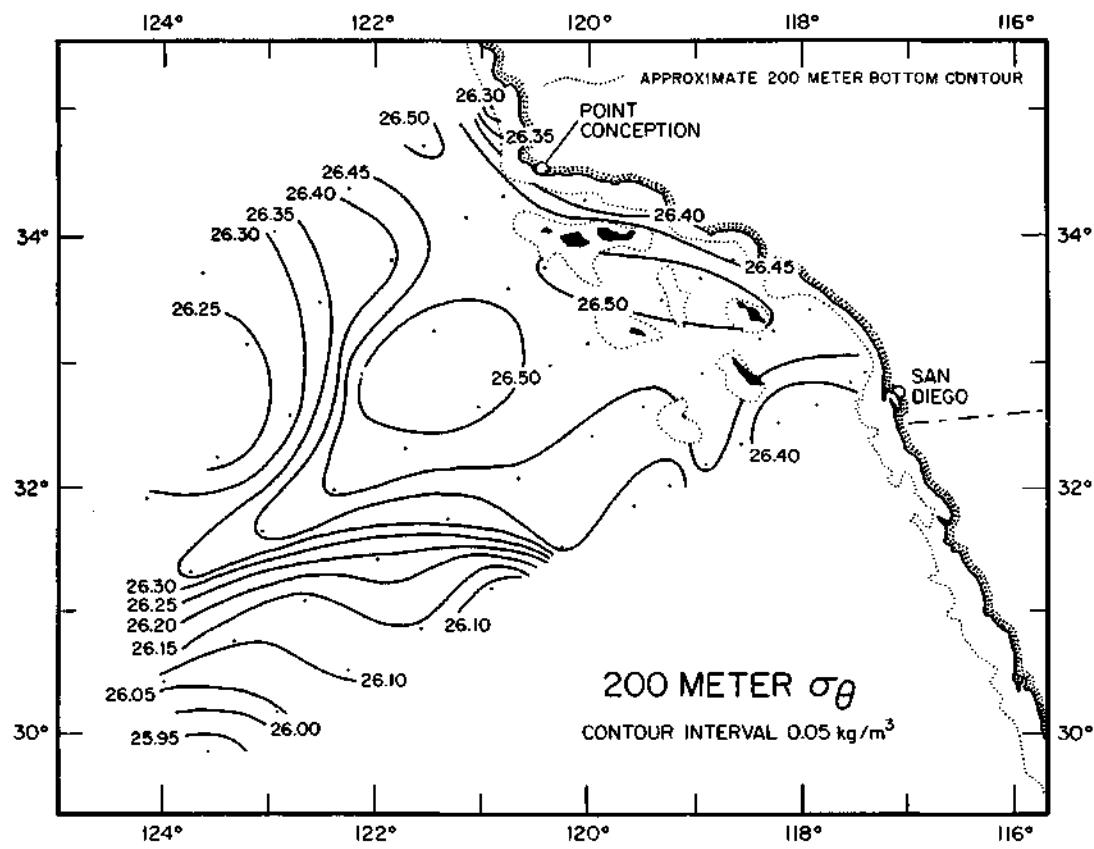


FIGURE 6

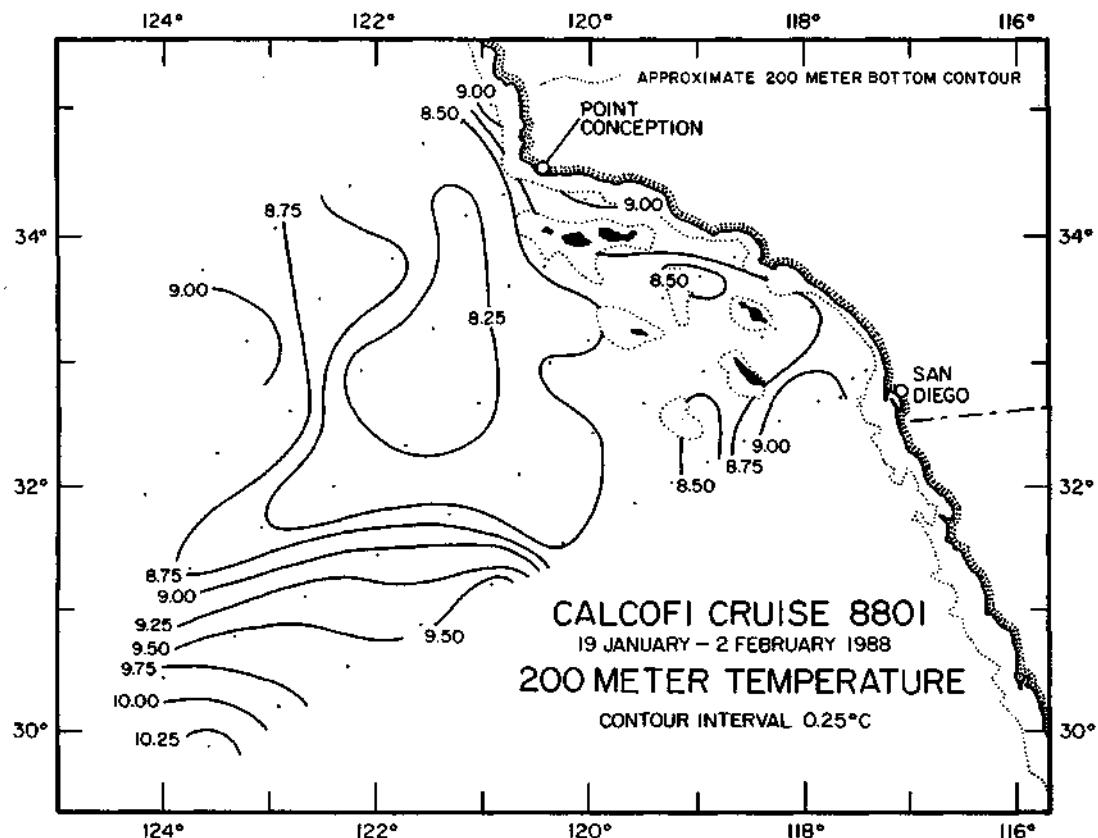


FIGURE 9

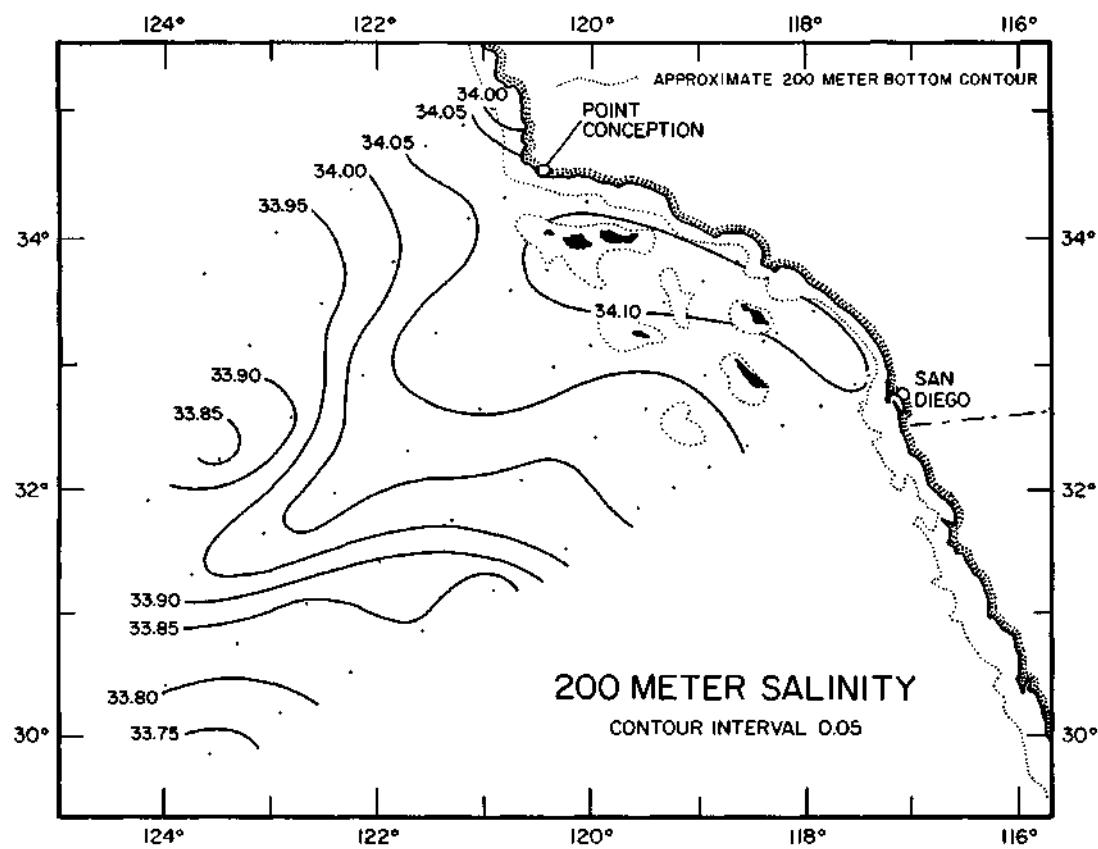


FIGURE 10

PERSONNEL

Calcofi Cruise 8801

SHIPS' CAPTAINS

Thomas L. Meyer, 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 |
| Bryan, Walter R. | Marine Technician, SIO |
| Butler, Sheila C. | Student, UCSB |
| Clark, Ross P. | Student, UCSB |
| Dotson, Ronald C. | Fishery Biologist, NMFS |
| Dowler, Gary S. | Biologist Technician, NMFS |
| Gripp, Sherry L. | Staff Research Associate, SIO |
| Gruber, Dennis W. | Marine Technician, SIO |
| Sweet, Paul R. | Staff Research Associate, SIO |
| Taveras, Susan M. | Fishery Biological Technician, NMFS |
| Veit, Richard R. | Graduate Student, UCI |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 49

| LATITUDE 35 5.3 N | LONGITUDE 120 46.6 U | DAY/MO/YR 01/02/88 | MESSENGER | | | BOTTOM 66 M | WIND 280 | SPEED 02 KT | WAVES | | WEATHER 1 | BAROMETER | | DRY 1015.0 MB | WET 12.8 C | CLOUD 10.6 C | AMT 4/8 | TYPE CC | |
|----------------------|-------------------------|-----------------------|-----------|--------|--------|----------------|-------------|----------------|----------------|------|--------------|-----------|----------------|------------------|---------------|-----------------|-------------|-------------|---------------|
| | | | 2201 | UTC | PSS 78 | | | | SIGMA THETA | SVA | DYN | HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 | N03 UM/L | N02 UM/L | CHL-A UG/L |
| 1 0 ISL | 12.11 | 12.11 | 33.490 | 25.396 | 257.1 | 0.000 | 6.65 | 109.1 | 7.4 | 0.65 | 3.1 | 0.24 | 9.81 | 2.01 | 0 | | | | |
| 1 1 | 12.11 | 12.11 | 33.490 | 25.396 | 257.1 | 0.003 | 6.65 | 109.1 | 7.4 | 0.65 | 3.1 | 0.24 | 9.81 | 2.01 | 1 | | | | |
| 1 10 ISL | 12.03 | 12.03 | 33.494 | 25.415 | 255.6 | 0.026 | 6.54 | 107.1 | 7.5 | 0.67 | 3.6 | 0.26 | 9.57 | 1.95 | 10 | | | | |
| 1 11 | 12.02 | 12.02 | 33.494 | 25.417 | 255.4 | 0.028 | 6.51 | 106.6 | 7.5 | 0.67 | 3.7 | 0.26 | 9.54 | 1.94 | 11 | | | | |
| 1 20 ISL | 11.92 | 11.92 | 33.499 | 25.439 | 253.5 | 0.051 | 6.16 | 100.6 | 7.8 | 0.71 | 4.9 | 0.28 | 8.25 | 1.87 | 20 | | | | |
| 1 21 | 11.91 | 11.91 | 33.499 | 25.441 | 253.3 | 0.054 | 6.12 | 100.0 | 7.9 | 0.72 | 5.0 | 0.28 | 8.07 | 1.86 | 21 | | | | |
| 1 30 ISL | 11.89 | 11.89 | 33.499 | 25.445 | 253.2 | 0.076 | 5.88 | 96.0 | 8.7 | 0.78 | 6.0 | 0.32 | 6.29 | 1.34 | 30 | | | | |
| 1 31 | 11.89 | 11.89 | 33.499 | 25.445 | 253.2 | 0.079 | 5.86 | 95.7 | 8.8 | 0.79 | 6.1 | 0.32 | 6.12 | 1.29 | 31 | | | | |
| 1 41 | 11.86 | 11.85 | 33.498 | 25.450 | 253.0 | 0.104 | 5.84 | 95.3 | 9.0 | 0.79 | 6.3 | 0.32 | 5.74 | 1.60 | 41 | | | | |
| 1 50 ISL | 11.79 | 11.78 | 33.510 | 25.473 | 251.0 | 0.127 | 5.62 | 91.6 | 10.0 | 0.87 | 7.6 | 0.36 | 4.75 | 1.24 | 50 | | | | |
| 1 51 | 11.78 | 11.77 | 33.511 | 25.476 | 250.8 | 0.129 | 5.59 | 91.1 | 10.1 | 0.88 | 7.7 | 0.36 | 4.54 | 1.17 | 51 | | | | |
| 1 61 | 11.09 | 11.08 | 33.626 | 25.691 | 230.5 | 0.154 | 4.41 | 70.8 | 17.9 | 1.31 | 14.2 | 0.38 | 0.31 | 0.46 | 61 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 51

| LATITUDE 35 1.3 N | LONGITUDE 120 55.1 W | DAY/MO/YR 01/02/88 | MESSENGER | | | BOTTOM 222 M | WIND 330 | SPEED 04 KT | WAVES | | WEATHER 1 | BAROMETER | | DRY 1015.9 MB | WET 10.5 C | CLOUD 9.4 C | AMT 4/8 | TYPE CC | |
|----------------------|-------------------------|-----------------------|-----------|--------|--------|-----------------|-------------|----------------|----------------|------|--------------|-----------|------|------------------|---------------|----------------|------------|-------------|-------------|
| | | | 1952 | UTC | PSS 78 | | | | SIGMA THETA | SVA | | DYN | HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 | N03 UM/L | N02 UM/L |
| 1 0 | 11.90 | 11.90 | 33.509 | 25.450 | 251.9 | 0.000 | 6.21 | 101.4 | 8.3 | 0.72 | 4.8 | 0.22 | 7.59 | 2.07 | 0 | | | | |
| 1 10 | 11.78 | 11.78 | 33.509 | 25.473 | 250.0 | 0.025 | 6.02 | 98.1 | 8.7 | 0.75 | 5.5 | 0.22 | 7.80 | 1.71 | 10 | | | | |
| 1 20 ISL | 11.65 | 11.65 | 33.537 | 25.519 | 245.9 | 0.050 | 5.44 | 88.4 | 11.0 | 0.92 | 8.3 | 0.25 | 4.44 | 1.13 | 20 | | | | |
| 1 21 | 11.63 | 11.63 | 33.542 | 25.527 | 245.2 | 0.052 | 5.37 | 87.2 | 11.3 | 0.94 | 8.7 | 0.25 | 4.04 | 1.07 | 21 | | | | |
| 1 30 ISL | 11.17 | 11.17 | 33.602 | 25.657 | 232.9 | 0.074 | 4.68 | 75.3 | 15.0 | 1.18 | 12.7 | 0.23 | 1.88 | 0.64 | 30 | | | | |
| 1 31 | 11.12 | 11.12 | 33.609 | 25.672 | 231.6 | 0.076 | 4.61 | 74.1 | 15.4 | 1.21 | 13.1 | 0.23 | 1.70 | 0.60 | 31 | | | | |
| 1 40 | 10.84 | 10.84 | 33.656 | 25.761 | 223.3 | 0.097 | 4.12 | 65.8 | 18.3 | 1.38 | 15.9 | 0.18 | 0.77 | 0.39 | 40 | | | | |
| 1 50 ISL | 10.60 | 10.59 | 33.702 | 25.837 | 216.3 | 0.119 | 3.81 | 60.6 | 20.4 | 1.50 | 17.8 | 0.13 | 0.34 | 0.31 | 50 | | | | |
| 1 51 | 10.57 | 10.56 | 33.706 | 25.845 | 215.5 | 0.121 | 3.78 | 60.0 | 20.6 | 1.51 | 18.0 | 0.13 | 0.32 | 0.31 | 51 | | | | |
| 1 60 | 10.22 | 10.21 | 33.765 | 25.952 | 205.6 | 0.140 | 3.37 | 53.1 | 23.1 | 1.64 | 20.3 | 0.09 | 0.11 | 0.20 | 60 | | | | |
| 1 70 | 9.92 | 9.91 | 33.820 | 26.046 | 196.9 | 0.160 | 3.12 | 48.9 | 25.9 | 1.75 | 22.1 | 0.09 | 0.05 | 0.16 | 71 | | | | |
| 1 75 ISL | 9.81 | 9.80 | 33.842 | 26.082 | 193.6 | 0.170 | 3.01 | 47.1 | 27.0 | 1.80 | 22.7 | 0.09 | 0.04 | 0.16 | 76 | | | | |
| 1 85 | 9.65 | 9.64 | 33.876 | 26.135 | 188.7 | 0.189 | 2.82 | 43.9 | 28.7 | 1.88 | 23.7 | 0.09 | 0.03 | 0.16 | 86 | | | | |
| 100 ISL | 9.51 | 9.50 | 33.908 | 26.183 | 184.4 | 0.217 | 2.67 | 41.5 | 30.4 | 1.94 | 24.6 | 0.09 | 0.03 | 0.14 | 101 | | | | |
| 1 105 | 9.49 | 9.48 | 33.914 | 26.191 | 183.8 | 0.226 | 2.65 | 41.1 | 30.7 | 1.95 | 24.8 | 0.09 | 0.03 | 0.14 | 106 | | | | |
| 1 124 | 9.48 | 9.47 | 33.923 | 26.200 | 183.3 | 0.261 | 2.62 | 40.7 | 31.3 | 1.96 | 24.9 | 0.08 | 0.03 | 0.16 | 125 | | | | |
| 125 ISL | 9.48 | 9.47 | 33.923 | 26.200 | 183.3 | 0.263 | 2.62 | 40.7 | 31.3 | 1.96 | 24.9 | 0.08 | 0.03 | 0.16 | 126 | | | | |
| 1 146 | 9.44 | 9.42 | 33.935 | 26.216 | 182.2 | 0.301 | 2.60 | 40.3 | 31.8 | 1.98 | 25.2 | 0.07 | 0.03 | 0.13 | 147 | | | | |
| 150 ISL | 9.41 | 9.39 | 33.941 | 26.226 | 181.4 | 0.308 | 2.57 | 39.8 | 32.1 | 1.99 | 25.4 | 0.07 | 0.03 | 0.13 | 151 | | | | |
| 1 175 | 9.23 | 9.21 | 33.976 | 26.283 | 176.4 | 0.353 | 2.40 | 37.1 | 34.4 | 2.07 | 26.3 | 0.09 | 0.02 | 0.13 | 176 | | | | |
| 200 ISL | 9.20 | 9.18 | 33.984 | 26.294 | 175.8 | 0.397 | 2.35 | 36.3 | 35.1 | 2.09 | 26.5 | 0.07 | 0.02 | 0.12 | 202 | | | | |
| 1 207 | 9.19 | 9.17 | 33.986 | 26.298 | 175.6 | 0.409 | 2.34 | 36.1 | 35.3 | 2.09 | 26.6 | 0.06 | 0.02 | 0.12 | 209 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 55

| LATITUDE 34 53.3 N | LONGITUDE 121 12.0 W | DAY/MO/YR 01/02/88 | MESSENGER | | | BOTTOM 585 M | WIND 320 | SPEED 20 KT | WAVES | | WEATHER 1 | BAROMETER | | DRY 1015.1 MB | WET 11.0 C | CLOUD 9.1 C | AMT 5/8 | TYPE CC | |
|-----------------------|-------------------------|-----------------------|-----------|--------|--------|-----------------|-------------|----------------|----------------|------|--------------|-----------|------|------------------|---------------|----------------|------------|-------------|-------------|
| | | | 1552 | UTC | PSS 78 | | | | SIGMA THETA | SVA | | DYN | HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 | N03 UM/L | N02 UM/L |
| 0 ISL | 12.22 | 12.22 | 33.416 | 25.318 | 264.5 | 0.000 | 6.03 | 99.1 | 6.8 | 0.64 | 3.7 | 0.42 | 1.63 | 0.61 | 0 | | | | |
| 1 1 | 12.22 | 12.22 | 33.416 | 25.318 | 264.5 | 0.003 | 6.03 | 99.1 | 6.8 | 0.64 | 3.7 | 0.42 | 1.63 | 0.61 | 1 | | | | |
| 10 ISL | 12.23 | 12.23 | 33.416 | 25.316 | 264.9 | 0.026 | 6.03 | 99.1 | 6.7 | 0.64 | 3.7 | 0.42 | 1.59 | 0.63 | 10 | | | | |
| 1 15 | 12.23 | 12.23 | 33.416 | 25.316 | 265.1 | 0.040 | 6.03 | 99.1 | 6.7 | 0.64 | 3.7 | 0.42 | 1.56 | 0.65 | 15 | | | | |
| 20 ISL | 12.23 | 12.23 | 33.415 | 25.316 | 265.2 | 0.053 | 6.03 | 99.1 | 6.7 | 0.64 | 3.7 | 0.42 | 1.53 | 0.65 | 20 | | | | |
| 1 30 | 12.22 | 12.22 | 33.414 | 25.317 | 265.4 | 0.080 | 6.02 | 98.9 | 6.6 | 0.64 | 3.7 | 0.43 | 1.47 | 0.65 | 30 | | | | |
| 1 40 | 12.24 | 12.23 | 33.418 | 25.317 | 265.7 | 0.106 | 6.01 | 98.8 | 6.6 | 0.65 | 3.8 | 0.43 | 1.38 | 0.62 | 40 | | | | |
| 1 50 | 12.23 | 12.22 | 33.423 | 25.323 | 265.3 | 0.133 | 5.97 | 98.1 | 6.9 | 0.66 | 4.0 | 0.44 | 1.20 | 0.52 | 50 | | | | |
| 1 60 | 12.25 | 12.24 | 33.427 | 25.322 | 265.7 | 0.159 | 5.97 | 98.2 | 7.0 | 0.67 | 4.1 | 0.44 | 1.20 | 0.56 | 60 | | | | |
| 1 71 | 12.15 | 12.14 | 33.476 | 25.380 | 260.5 | 0.188 | 5.75 | 94.4 | 8.4 | 0.75 | 5.6 | 0.37 | 1.44 | 0.91 | 72</td | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|-------|------|-------|-----------|--------|-------|
| | | | | | | | | | 1224 | UTC | 960 M | 330 | 18 KT | 1015.4 MB | 11.1 C | 9.7 C |
| 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 | PSS 78 | 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 | 12.11 | 12.11 | 33.441 | 25.358 | 260.7 | 0.000 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.57 | 1.53 | 0 |
| 10 | ISL | 12.10 | 12.10 | 33.439 | 25.359 | 260.9 | 0.026 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.60 | 1.44 | 10 |
| 15 | 12.09 | 12.09 | 33.438 | 25.360 | 260.9 | 0.039 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.62 | 1.39 | 15 | |
| 20 | ISL | 12.10 | 12.10 | 33.438 | 25.358 | 261.2 | 0.052 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.61 | 1.39 | 20 |
| 30 | ISL | 12.12 | 12.12 | 33.438 | 25.355 | 261.8 | 0.078 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.53 | 1.40 | 30 |
| 31 | 12.12 | 12.12 | 33.438 | 25.355 | 261.8 | 0.081 | 6.16 | 101.0 | 6.0 | 0.64 | 3.8 | 0.38 | 4.52 | 1.40 | 31 | |
| 41 | 12.13 | 12.12 | 33.438 | 25.353 | 262.2 | 0.107 | 6.02 | 98.8 | 6.0 | 0.64 | 3.8 | 0.38 | 4.35 | 1.75 | 41 | |
| 50 | ISL | 12.12 | 12.11 | 33.438 | 25.355 | 262.2 | 0.131 | 6.14 | 100.7 | 6.1 | 0.65 | 4.0 | 0.39 | 4.50 | 1.81 | 50 |
| 51 | 12.12 | 12.11 | 33.438 | 25.355 | 262.3 | 0.133 | 6.15 | 100.9 | 6.1 | 0.65 | 4.0 | 0.39 | 4.52 | 1.82 | 51 | |
| 60 | 12.07 | 12.06 | 33.457 | 25.380 | 260.2 | 0.157 | 5.93 | 97.2 | 7.6 | 0.73 | 5.5 | 0.49 | 2.71 | 1.23 | 60 | |
| 70 | 11.99 | 11.98 | 33.492 | 25.422 | 256.4 | 0.183 | 5.65 | 92.4 | 9.3 | 0.86 | 7.3 | 0.60 | 0.65 | 0.62 | 71 | |
| 75 | ISL | 11.52 | 11.51 | 33.482 | 25.502 | 248.9 | 0.195 | 5.19 | 84.0 | 11.2 | 1.02 | 10.2 | 0.41 | 0.27 | 0.43 | 76 |
| 80 | 10.97 | 10.96 | 33.486 | 25.604 | 239.2 | 0.208 | 4.66 | 74.6 | 13.5 | 1.19 | 13.6 | 0.19 | 0.12 | 0.29 | 81 | |
| 95 | 9.95 | 9.94 | 33.724 | 25.966 | 205.0 | 0.241 | 3.42 | 53.6 | 21.5 | 1.61 | 21.2 | 0.03 | 0.04 | 0.14 | 96 | |
| 100 | ISL | 9.84 | 9.83 | 33.761 | 26.014 | 200.6 | 0.251 | 3.24 | 50.7 | 22.8 | 1.68 | 22.2 | 0.03 | 0.03 | 0.12 | 101 |
| U0 | 9.74 | 9.73 | 33.806 | 26.066 | 195.8 | 0.271 | 3.06 | 47.7 | 24.5 | 1.76 | 23.2 | 0.02 | 0.02 | 0.10 | 111 | |
| 125 | 9.47 | 9.46 | 33.880 | 26.168 | 186.3 | 0.299 | 2.89 | 44.8 | 27.3 | 1.85 | 24.5 | 0.02 | 0.02 | 0.08 | 126 | |
| 150 | 8.97 | 8.95 | 33.962 | 26.313 | 173.0 | 0.344 | 2.73 | 41.9 | 31.2 | 1.95 | 26.4 | 0.01 | 0.03 | 0.06 | 151 | |
| 175 | 8.64 | 8.62 | 34.038 | 26.425 | 162.8 | 0.386 | 2.39 | 36.4 | 34.7 | 2.07 | 28.2 | 0.13 | 0.01 | 0.05 | 176 | |
| 200 | ISL | 8.31 | 8.29 | 34.078 | 26.507 | 155.4 | 0.426 | 2.32 | 35.1 | 38.5 | 2.16 | 29.3 | 0.04 | 0.01 | 0.04 | 202 |
| 205 | 8.24 | 8.22 | 34.081 | 26.520 | 154.2 | 0.434 | 2.31 | 34.9 | 39.2 | 2.17 | 29.5 | 0.01 | 0.01 | 0.04 | 207 | |
| 234 | 7.76 | 7.74 | 34.068 | 26.581 | 148.7 | 0.478 | 2.33 | 34.8 | 42.6 | 2.21 | 30.5 | 0.01 | | | 236 | |
| 250 | ISL | 7.60 | 7.58 | 34.083 | 26.616 | 145.6 | 0.501 | 2.14 | 31.8 | 45.5 | 2.29 | 31.5 | 0.01 | | | 252 |
| 273 | 7.41 | 7.38 | 34.110 | 26.664 | 141.3 | 0.534 | 1.82 | 27.0 | 49.8 | 2.41 | 33.1 | 0.01 | | | 275 | |
| 300 | ISL | 7.13 | 7.10 | 34.114 | 26.707 | 137.5 | 0.572 | 1.63 | 24.0 | 53.6 | 2.49 | 34.3 | 0.01 | | | 302 |
| 328 | 6.83 | 6.80 | 34.113 | 26.747 | 133.9 | 0.610 | 1.48 | 21.6 | 57.4 | 2.57 | 35.5 | 0.00 | | | 331 | |
| 387 | 6.26 | 6.23 | 34.149 | 26.852 | 124.5 | 0.686 | 0.95 | 13.7 | 67.6 | 2.79 | 38.5 | 0.00 | | | 390 | |
| 400 | ISL | 6.18 | 6.14 | 34.168 | 26.877 | 122.2 | 0.702 | 0.83 | 12.0 | 69.8 | 2.84 | 39.0 | 0.00 | | | 403 |
| 451 | 5.89 | 5.85 | 34.240 | 26.971 | 113.8 | 0.762 | 0.44 | 6.3 | 77.7 | 3.00 | 40.6 | 0.00 | | | 455 | |
| 500 | ISL | 5.57 | 5.53 | 34.258 | 27.025 | 109.0 | 0.817 | 0.36 | 5.1 | 83.3 | 3.05 | 41.6 | 0.00 | | | 504 |
| 519 | 5.45 | 5.41 | 34.265 | 27.045 | 107.2 | 0.837 | 0.33 | 4.7 | 85.5 | 3.07 | 42.0 | 0.00 | | | | 524 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | | DRY | WET | CLOUD | AMT | TYPE | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|--------|------|-------|-----------|--------|--------|
| | | | | | | | | | 0703 | UTC | 3924 M | 310 | 15 KT | 1017.5 MB | 12.3 C | 10.4 C |
| 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 | PSS 78 | 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 | 13.05 | 13.05 | 33.094 | 24.907 | 303.6 | 0.000 | 6.06 | 101.2 | 3.5 | 0.48 | 1.2 | 0.11- | 0.44 | 0.21 | 0 |
| 1 | 13.05 | 13.05 | 33.094 | 24.907 | 303.6 | 0.003 | 6.06 | 101.2 | 3.5 | 0.48 | 1.2 | 0.11 | 0.44 | 0.21 | 1 | |
| 10 | ISL | 13.04 | 13.04 | 33.092 | 24.908 | 303.8 | 0.030 | 6.07 | 101.3 | 3.5 | 0.48 | 1.2 | 0.10 | 0.44 | 0.20 | 10 |
| 17 | 13.04 | 13.04 | 33.091 | 24.907 | 304.0 | 0.052 | 6.07 | 101.3 | 3.5 | 0.48 | 1.2 | 0.10 | 0.44 | 0.20 | 17 | |
| 20 | ISL | 13.02 | 13.02 | 33.089 | 24.910 | 303.9 | 0.061 | 6.07 | 101.3 | 3.5 | 0.48 | 1.2 | 0.10 | 0.45 | 0.21 | 20 |
| 30 | ISL | 12.95 | 12.95 | 33.082 | 24.919 | 303.3 | 0.091 | 6.07 | 101.1 | 3.6 | 0.48 | 1.3 | 0.12 | 0.48 | 0.23 | 30 |
| 31 | 12.94 | 12.94 | 33.081 | 24.920 | 303.2 | 0.094 | 6.07 | 101.1 | 3.6 | 0.48 | 1.3 | 0.12 | 0.48 | 0.23 | 31 | |
| 40 | 12.57 | 12.56 | 33.042 | 24.962 | 299.4 | 0.121 | 6.18 | 102.1 | 3.8 | 0.51 | 1.6 | 0.12 | 0.63 | 0.37 | 40 | |
| 50 | ISL | 12.45 | 12.44 | 33.032 | 24.977 | 298.2 | 0.151 | 6.24 | 102.8 | 3.5 | 0.51 | 1.6 | 0.12 | 0.67 | 0.33 | 50 |
| 51 | 12.45 | 12.44 | 33.032 | 24.977 | 298.2 | 0.154 | 6.24 | 102.8 | 3.5 | 0.51 | 1.6 | 0.12 | 0.67 | 0.33 | 51 | |
| 60 | 12.33 | 12.32 | 33.038 | 25.005 | 295.8 | 0.181 | 6.20 | 101.9 | 3.9 | 0.54 | 2.1 | 0.15 | 0.62 | 0.28 | 60 | |
| 69 | 11.71 | 11.70 | 33.059 | 25.138 | 285.3 | 0.207 | 5.96 | 96.7 | 5.7 | 0.70 | 4.7 | 0.30 | 0.34 | 0.29 | 70 | |
| 75 | ISL | 11.82 | 11.81 | 33.118 | 25.164 | 281.0 | 0.224 | 5.80 | 94.3 | 5.9 | 0.72 | 5.2 | 0.26 | 0.23 | 0.25 | 76 |
| 79 | 11.93 | 11.92 | 33.174 | 25.187 | 278.9 | 0.235 | 5.65 | 92.1 | 6.2 | 0.74 | 5.7 | 0.23 | 0.18 | 0.21 | 80 | |
| 94 | 11.09 | 11.08 | 33.471 | 25.571 | 242.6 | 0.274 | 4.52 | 72.5 | 11.8 | 1.12 | 12.9 | 0.02 | 0.05 | 0.08 | 95 | |
| 100 | ISL | 10.67 | 10.66 | 33.510 | 25.676 | 232.7 | 0.288 | 4.25 | 67.6 | 14.2 | 1.27 | 15.5 | 0.02 | 0.03 | 0.06 | 101 |
| 109 | 10.13 | 10.12 | 33.552 | 25.802 | 220.9 | 0.309 | 4.02 | 63.2 | 17.2 | 1.44 | 18.3 | 0.01 | 0.02 | 0.04 | I10 | |
| 123 | 9.82 | 9.81 | 33.706 | 25.975 | 204.7 | 0.339 | 3.98 | 62.2 | 18.8 | 1.44 | 18.8 | 0.01 | 0.01 | 0.04 | 124 | |
| 125 | ISL | 9.77 | 9.76 | 33.717 | 25.991 | 203.2 | 0.343 | 3.95 | 61.6 | 19.2 | 1.46 | 19.1 | 0.01 | 0.01 | 0.04 | 126 |
| 147 | 9.26 | 9.24 | 33.794 | 26.135 | 189.8 | 0.386 | 3.58 | 55.3 | 24.0 | 1.66 | 22.4 | 0.01 | 0.01 | 0.03 | 148 | |
| 150 | ISL | 9.21 | 9.19 | 33.808 | 26.154 | 188.1 | 0.392 | 3.57 | 55.0 | 24.4 | 1.67 | 22.6 | 0.01 | 0.01 | 0.03 | 151 |
| 173 | 8.82 | 8.80 | 33.910 | 26.296 | 175.0 | 0.433 | 3.53 | 54.0 | 27.4 | 1.72 | 23.6 | 0.01 | 0.00 | 0.03 | 174 | |
| 200 | ISL | 8.34 | 8.32 | 33.982 | 26.427 | 162.9 | 0.479 | 3.18 | 48.1 | 33.0 | 1.88 | 26.2 | 0.00 | 0.00 | 0.03 | 202 |
| 202 | 8.31 | 8.29 | 33.986 | 26.435 | 162.2 | 0.482 | 3.15 | 47.6 | 33.4 | 1.89 | 26.4 | 0.00 | 0.00 | 0.03 | 204 | |
| 232 | 7.91 | 7.89 | 34.030 | 26.529 | 153.6 | 0.530 | 2.78 | 41.7 | 38.8 | 2.06 | 28.7 | 0.00 | | | 234 | |
| 250 | ISL | 7.64 | 7.62 | 34.034 | 26.572 | 149.8 | 0.557 | 2.67 | 39.8 | 42.0 | 2.12 | 29.8 | 0.00 | | | 252</ |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 80

| LATITUDE 34 3.3 N | LONGITUDE 122 56.6 W | DAY/MO/YR 01/02/88 | MESSENGER | | BOTTOM 4114 M | WIND 320 18 KT | SPEED 330 05 05 | WAVES 1 | WEATHER | BAROMETER | | WET 1017.9 MB | CLOUD AMT 11.4 C 3/8 | TYPE SC | | | | | |
|----------------------|-------------------------|-----------------------|-----------|--------|------------------|-------------------|--------------------|------------|---------|-----------|--------|------------------|-------------------------|------------|----------|----------|----------|------------|------------|
| | | | 0146 | UTC | | | | | | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L |
| 0 ISL | 14.18 | 14.18 | 33.247 | 24.796 | 314.2 | 0.000 | 5.96 | 101.9 | 2.3 | 0.37 | 0.2 | 0.01 | 0.33 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0 |
| 1 1 | 14.18 | 14.18 | 33.247 | 24.796 | 314.2 | 0.003 | 5.96 | 101.9 | 2.3 | 0.37 | 0.2 | 0.01 | 0.33 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 1 |
| 1 10 ISL | 14.18 | 14.18 | 33.246 | 24.796 | 314.5 | 0.031 | 5.95 | 101.8 | 2.2 | 0.37 | 0.2 | 0.01 | 0.32 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 10 |
| 1 17 | 14.19 | 14.19 | 33.245 | 24.793 | 315.0 | 0.053 | 5.95 | 101.8 | 2.1 | 0.36 | 0.2 | 0.01 | 0.31 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 17 |
| 20 ISL | 14.19 | 14.19 | 33.245 | 24.793 | 315.1 | 0.063 | 5.95 | 101.8 | 2.1 | 0.36 | 0.2 | 0.01 | 0.31 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 20 |
| 30 ISL | 14.20 | 14.20 | 33.245 | 24.791 | 315.5 | 0.094 | 5.96 | 102.0 | 2.1 | 0.35 | 0.2 | 0.01 | 0.32 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 30 |
| 1 35 | 14.20 | 14.19 | 33.245 | 24.791 | 315.7 | 0.110 | 5.97 | 102.1 | 2.1 | 0.35 | 0.2 | 0.01 | 0.32 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 35 |
| 50 ISL | 14.20 | 14.19 | 33.243 | 24.790 | 316.2 | 0.158 | 5.97 | 102.1 | 2.1 | 0.35 | 0.2 | 0.01 | 0.32 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 50 |
| 1 56 | 14.20 | 14.19 | 33.242 | 24.790 | 316.4 | 0.177 | 5.97 | 102.1 | 2.1 | 0.35 | 0.2 | 0.01 | 0.32 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 56 |
| 1 71 | 13.92 | 13.91 | 33.197 | 24.813 | 314.5 | 0.224 | 5.93 | 100.8 | 2.2 | 0.39 | 0.5 | 0.07 | 0.23 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 72 |
| 75 ISL | 13.72 | 13.71 | 33.163 | 24.828 | 313.2 | 0.236 | 5.90 | 99.9 | 2.4 | 0.42 | 0.8 | 0.13 | 0.19 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 76 |
| 1 79 | 13.50 | 13.49 | 33.138 | 24.854 | 310.9 | 0.249 | 5.85 | 98.6 | 2.8 | 0.46 | 1.3 | 0.17 | 0.15 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 80 |
| 1 90 | 12.91 | 12.90 | 33.216 | 25.032 | 294.1 | 0.282 | 5.56 | 92.6 | 4.5 | 0.61 | 4.1 | 0.07 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 91 |
| 1 100 | 12.40 | 12.39 | 33.478 | 25.334 | 265.6 | 0.310 | 5.22 | 86.1 | 6.4 | 0.70 | 6.4 | 0.04 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 101 |
| 1 109 | 11.33 | 11.32 | 33.479 | 25.535 | 246.5 | 0.333 | 4.80 | 77.4 | 9.7 | 0.97 | 10.8 | 0.02 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 110 |
| 1 124 | 10.18 | 10.17 | 33.465 | 25.726 | 228.4 | 0.369 | 4.12 | 64.8 | 16.4 | 1.41 | 17.9 | 0.01 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 125 |
| 125 ISL | 10.17 | 10.16 | 33.479 | 25.739 | 227.3 | 0.371 | 4.10 | 64.5 | 16.6 | 1.41 | 18.0 | 0.01 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 126 |
| 1 139 | 10.03 | 10.01 | 33.663 | 25.906 | 211.7 | 0.402 | 3.94 | 61.8 | 18.3 | 1.44 | 18.7 | 0.01 | 0.02 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 140 |
| 150 ISL | 9.69 | 9.67 | 33.736 | 26.020 | 201.0 | 0.425 | 3.81 | 59.3 | 20.6 | 1.52 | 20.2 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 151 |
| 1 160 | 9.37 | 9.35 | 33.778 | 26.105 | 193.0 | 0.444 | 3.66 | 56.6 | 22.9 | 1.61 | 21.8 | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 161 |
| 1 181 | 9.07 | 9.05 | 33.864 | 26.221 | 182.3 | 0.484 | 3.21 | 49.3 | 27.3 | 1.79 | 24.5 | 0.01 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 182 |
| 200 ISL | 8.78 | 8.76 | 33.919 | 26.310 | 174.2 | 0.518 | 3.33 | 50.9 | 28.9 | 1.78 | 24.7 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 202 |
| 1 206 | 8.69 | 8.67 | 33.934 | 26.336 | 171.8 | 0.528 | 3.39 | 51.7 | 29.3 | 1.78 | 24.8 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 208 |
| 1 234 | 8.30 | 8.28 | 33.993 | 26.442 | 162.1 | 0.575 | 2.98 | 45.0 | 34.3 | 1.95 | 27.2 | 0.01 | 0.01 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 236 |
| 250 ISL | 8.10 | 8.07 | 34.017 | 26.491 | 157.6 | 0.600 | 2.82 | 42.4 | 36.9 | 2.02 | 28.2 | 0.01 | 0.01 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 252 |
| 1 275 | 7.79 | 7.76 | 34.043 | 26.557 | 151.6 | 0.639 | 2.59 | 38.7 | 41.0 | 2.13 | 29.7 | 0.00 | 0.00 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 277 |
| 300 ISL | 7.43 | 7.40 | 34.056 | 26.619 | 146.0 | 0.676 | 2.30 | 34.1 | 45.9 | 2.25 | 31.5 | 0.00 | 0.00 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 302 |
| 1 330 | 7.02 | 6.99 | 34.068 | 26.686 | 139.8 | 0.719 | 1.93 | 28.3 | 51.9 | 2.41 | 33.7 | 0.00 | 0.00 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 333 |
| 1 390 | 6.49 | 6.45 | 34.121 | 26.800 | 129.6 | 0.800 | 1.17 | 17.0 | 63.1 | 2.72 | 37.4 | 0.00 | 0.00 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 393 |
| 400 ISL | 6.41 | 6.37 | 34.127 | 26.815 | 128.3 | 0.813 | 1.09 | 15.8 | 64.7 | 2.75 | 37.8 | 0.00 | 0.00 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 403 |
| 1 452 | 6.01 | 5.97 | 34.158 | 26.891 | 121.4 | 0.878 | 0.79 | 11.3 | 72.4 | 2.89 | 39.7 | 0.00 | 0.00 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 456 |
| 500 ISL | 5.67 | 5.63 | 34.189 | 26.958 | 115.4 | 0.934 | 0.58 | 8.3 | 79.6 | 2.99 | 40.9 | 0.00 | 0.00 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 504 |
| 1 518 | 5.54 | 5.50 | 34.201 | 26.984 | 113.1 | 0.955 | 0.50 | 7.1 | 82.3 | 3.03 | 41.4 | 0.00 | 0.00 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 519 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 90

| LATITUDE 33 43.3 N | LONGITUDE 123 38.0 W | DAY/MO/YR 31/01/88 | MESSENGER | | BOTTOM 3923 M | WIND 350 18 KT | SPEED 360 05 04 | WAVES 2 | WEATHER | BAROMETER | | DRY 1020.5 MB | WET 13.7 C | CLOUD AMT 11.3 C 8/8 | TYPE ST | | | | |
|-----------------------|-------------------------|-----------------------|-----------|--------|------------------|-------------------|--------------------|------------|---------|-----------|--------|------------------|---------------|-------------------------|------------|----------|----------|------------|------------|
| | | | 2035 | UTC | | | | | | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SI03 UM/L | PO4 UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L |
| 0 ISL | 13.88 | 13.88 | 33.159 | 24.790 | 314.7 | 0.000 | 6.00 | 101.9 | 2.2 | 0.39 | 0.3 | 0.02 | 0.44 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0 |
| 1 1 | 13.88 | 13.88 | 33.159 | 24.790 | 314.8 | 0.003 | 6.00 | 101.9 | 2.2 | 0.39 | 0.3 | 0.02 | 0.44 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 1 |
| 10 ISL | 13.87 | 13.87 | 33.158 | 24.792 | 314.9 | 0.031 | 6.00 | 101.9 | 2.2 | 0.39 | 0.3 | 0.02 | 0.43 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 10 |
| 1 17 | 13.86 | 13.86 | 33.157 | 24.793 | 314.9 | 0.054 | 6.00 | 101.9 | 2.2 | 0.39 | 0.3 | 0.02 | 0.42 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 17 |
| 20 ISL | 13.86 | 13.86 | 33.157 | 24.793 | 315.0 | 0.063 | 6.00 | 101.9 | 2.2 | 0.39 | 0.3 | 0.02 | 0.42 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 20 |
| 30 ISL | 13.87 | 13.87 | 33.157 | 24.792 | 315.5 | 0.094 | 6.00 | 101.9 | 2.3 | 0.39 | 0.3 | 0.02 | 0.42 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 30 |
| 1 37 | 13.88 | 13.87 | 33.157 | 24.790 | 315.8 | 0.117 | 5.99 | 101.8 | 2.4 | 0.39 | 0.3 | 0.02 | 0.43 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 37 |
| 50 ISL | 13.88 | 13.87 | 33.156 | 24.789 | 316.2 | 0.158 | 5.97 | 101.4 | 2.5 | 0.39 | 0.3 | 0.03 | 0.43 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 50 |
| 1 56 | 13.88 | 13.87 | 33.156 | 24.790 | 316.4 | 0.177 | 5.96 | 101.2 | 2.6 | 0.39 | 0.3 | 0.04 | 0.43 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 56 |
| 1 71 | 13.77 | 13.76 | 33.143 | 24.802 | 315.2 | 0.284 | 5.88 | 99.6 | 3.0 | 0.44 | 0.7 | 0.11 | 0.14 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 91 |
| 1 81 | 13.77 | 13.76 | 33.144 | 24.812 | 315.2 | 0.284 | 5.88 | 99.6 | 3.0 | 0.44 | 0.7 | 0.11 | 0.14 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 82 |
| 1 90 | 13.73 | 13.72 | 33.144 | 24.807 | 315.9 | 0.316 | 5.87 | 99.5 | 3.0 | 0.43 | 0.8 | 0.11 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 101 |
| 1 100 | 13.77 | 13.76 | 33.148 | 24.807 | 315.9 | 0.316 | 5.87 | 99.5 | 3.0 | 0.43 | 0.8 | 0.11 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 112 |
| 1 111 | 13.59 | 13.57 | 33.166 | 24.858 | 311.4 | 0.350 | 5.75 | 97.1 | 3.7 | 0.48 | 1.6 | 0.18 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 112 | |
| 1 125 | 11.99 | 11.97 | 33.2 | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 | 30/01/88 | 1451 UTC | 72 M | 290 | 18 KT | 290 04 | 07 1 | 1020.1 MB | 12.5 C | 11.7 C | 2/8 | SC | | | |
| 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 | PSS 78 | 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 | 12.96 | 12.96 | 33.470 | 25.216 | 274.2 | 0.000 | 6.31 | 105.4 | 6.3 | 0.53 | 2.4 | 0.12 | 2.29 | 0.45 | 0 |
| 1 | 1 | 12.96 | 12.96 | 33.470 | 25.216 | 274.2 | 0.003 | 6.31 | 105.4 | 6.3 | 0.53 | 2.4 | 0.12 | 2.29 | 0.45 | 1 |
| 1 | 10 ISL | 12.96 | 12.96 | 33.470 | 25.217 | 274.4 | 0.027 | 6.28 | 104.9 | 6.2 | 0.52 | 2.4 | 0.12 | 2.28 | 0.39 | 10 |
| 1 | 11 | 12.96 | 12.96 | 33.470 | 25.217 | 274.4 | 0.030 | 6.28 | 104.9 | 6.2 | 0.52 | 2.4 | 0.12 | 2.28 | 0.38 | 11 |
| 1 | 20 ISL | 12.59 | 12.59 | 33.459 | 25.281 | 268.6 | 0.055 | 6.07 | 100.6 | 7.0 | 0.63 | 3.9 | 0.20 | 1.48 | 0.69 | 20 |
| 1 | 21 | 12.55 | 12.55 | 33.458 | 25.288 | 267.9 | 0.057 | 6.04 | 100.0 | 7.1 | 0.64 | 4.1 | 0.21 | 1.39 | 0.73 | 21 |
| 1 | 30 ISL | 12.46 | 12.46 | 33.461 | 25.308 | 266.3 | 0.081 | 5.91 | 97.6 | 7.2 | 0.68 | 4.6 | 0.25 | 1.16 | 0.73 | 30 |
| 1 | 31 | 12.45 | 12.45 | 33.463 | 25.311 | 266.0 | 0.084 | 5.90 | 97.5 | 7.2 | 0.69 | 4.7 | 0.26 | 1.14 | 0.73 | 31 |
| 1 | 41 | 11.92 | 11.91 | 33.542 | 25.473 | 250.8 | 0.110 | 5.03 | 82.2 | 11.2 | 0.99 | 9.3 | 0.40 | 0.43 | 0.40 | 41 |
| 1 | 50 ISL | 11.55 | 11.54 | 33.596 | 25.584 | 240.4 | 0.132 | 4.73 | 76.7 | 13.9 | 1.13 | 11.7 | 0.36 | 0.30 | 0.37 | 50 |
| 1 | 51 | 11.51 | 11.50 | 33.602 | 25.596 | 239.3 | 0.134 | 4.70 | 76.2 | 14.2 | 1.15 | 12.0 | 0.35 | 0.29 | 0.37 | 51 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|-------|-------|-------|-------|
| 34 19.1 N | 120 48.1 W | 30/01/88 | 1730 UTC | 797 M | 320 | 20 KT | 330 04 | 05 1 | 1020.9 MB | 13.8 C | 12.8 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 | PSS 78 | 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 | 12.61 | 12.61 | 33.324 | 25.172 | 278.4 | 0.000 | 6.66 | 110.3 | 2.9 | 0.47 | 1.1 | 0.10 | 4.49 | 1.64 | 0 |
| 1 | 10 ISL | 12.54 | 12.54 | 33.324 | 25.185 | 277.4 | 0.028 | 6.64 | 109.8 | 2.9 | 0.48 | 1.2 | 0.11 | 4.43 | 1.86 | 10 |
| 1 | 11 | 12.53 | 12.53 | 33.324 | 25.187 | 277.2 | 0.031 | 6.64 | 109.8 | 2.9 | 0.48 | 1.2 | 0.11 | 4.42 | 1.88 | 11 |
| 1 | 20 | 12.49 | 12.49 | 33.323 | 25.195 | 276.8 | 0.055 | 6.54 | 108.0 | 3.3 | 0.52 | 1.7 | 0.13 | 4.30 | 1.52 | 20 |
| 1 | 30 | 12.22 | 12.22 | 33.335 | 25.256 | 271.2 | 0.083 | 5.92 | 97.2 | 6.3 | 0.69 | 4.9 | 0.42 | 1.11 | 0.68 | 30 |
| 1 | 40 | 12.16 | 12.15 | 33.354 | 25.282 | 268.9 | 0.110 | 5.80 | 95.2 | 6.8 | 0.75 | 5.6 | 0.60 | 0.51 | 0.48 | 40 |
| 1 | 50 ISL | 12.14 | 12.13 | 33.390 | 25.314 | 266.1 | 0.137 | 5.73 | 94.0 | 7.3 | 0.77 | 6.0 | 0.57 | 0.29 | 0.31 | 50 |
| 1 | 51 | 12.14 | 12.13 | 33.394 | 25.317 | 265.9 | 0.139 | 5.72 | 93.8 | 7.4 | 0.77 | 6.1 | 0.57 | 0.28 | 0.30 | 51 |
| 1 | 60 | 11.98 | 11.97 | 33.403 | 25.355 | 262.5 | 0.163 | 5.51 | 90.1 | 8.4 | 0.83 | 7.2 | 0.50 | 0.18 | 0.28 | 60 |
| 1 | 71 | 11.22 | 11.21 | 33.510 | 25.578 | 241.5 | 0.191 | 4.64 | 74.7 | 13.4 | 1.13 | 12.8 | 0.19 | 0.09 | 0.18 | 72 |
| 1 | 75 ISL | 10.92 | 10.91 | 33.558 | 25.669 | 232.9 | 0.200 | 4.34 | 69.4 | 15.4 | 1.25 | 14.8 | 0.13 | 0.07 | 0.16 | 76 |
| 1 | 85 | 10.25 | 10.24 | 33.672 | 25.875 | 213.5 | 0.223 | 3.73 | 58.8 | 20.0 | 1.50 | 19.1 | 0.05 | 0.04 | 0.12 | 86 |
| 1 | 100 | 9.79 | 9.78 | 33.763 | 26.024 | 199.6 | 0.254 | 3.33 | 52.0 | 23.9 | 1.66 | 21.8 | 0.02 | 0.02 | 0.09 | 101 |
| 1 | 120 | 9.26 | 9.25 | 33.884 | 26.205 | 182.6 | 0.292 | 3.20 | 49.4 | 28.5 | 1.83 | 24.6 | 0.02 | 0.01 | 0.05 | 121 |
| 1 | 125 ISL | 9.18 | 9.17 | 33.907 | 26.236 | 179.8 | 0.301 | 3.10 | 47.8 | 29.5 | 1.86 | 25.0 | 0.02 | 0.01 | 0.05 | 126 |
| 1 | 145 | 8.93 | 8.91 | 33.977 | 26.331 | 171.2 | 0.336 | 2.69 | 41.3 | 32.8 | 1.95 | 26.3 | 0.02 | 0.01 | 0.04 | 146 |
| 1 | 150 ISL | 8.86 | 8.84 | 33.992 | 26.354 | 169.1 | 0.344 | 2.65 | 40.6 | 33.5 | 1.97 | 26.6 | 0.02 | 0.01 | 0.04 | 151 |
| 1 | 175 | 8.56 | 8.54 | 34.047 | 26.444 | 160.9 | 0.386 | 2.52 | 38.3 | 36.5 | 2.06 | 27.9 | 0.01 | 0.01 | 0.04 | 176 |
| 1 | 200 ISL | 8.44 | 8.42 | 34.076 | 26.485 | 157.4 | 0.426 | 2.34 | 35.5 | 39.0 | 2.13 | 28.8 | 0.01 | 0.00 | 0.03 | 202 |
| 1 | 206 | 8.42 | 8.40 | 34.081 | 26.492 | 156.9 | 0.435 | 2.29 | 34.7 | 39.6 | 2.15 | 29.0 | 0.01 | 0.00 | 0.03 | 208 |
| 1 | 234 | 8.23 | 8.21 | 34.108 | 26.543 | 152.5 | 0.478 | 2.06 | 31.1 | 42.8 | 2.24 | 30.0 | 0.01 | 0.00 | 0.03 | 236 |
| 1 | 250 ISL | 8.08 | 8.05 | 34.127 | 26.580 | 149.2 | 0.502 | 1.87 | 28.1 | 45.2 | 2.32 | 30.9 | 0.01 | 0.00 | 0.03 | 252 |
| 1 | 274 | 7.84 | 7.81 | 34.157 | 26.640 | 143.9 | 0.538 | 1.58 | 23.7 | 48.9 | 2.44 | 32.3 | 0.00* | 0.00 | 0.17 | 276 |
| 1 | 300 ISL | 7.67 | 7.64 | 34.188 | 26.689 | 139.6 | 0.574 | 1.30 | 19.4 | 52.3 | 2.56 | 33.5 | 0.00 | 0.00 | 0.00 | 302 |
| 1 | 329 | 7.47 | 7.44 | 34.213 | 26.738 | 135.3 | 0.614 | 1.05 | 15.6 | 56.0 | 2.67 | 34.6 | 0.00 | 0.00 | 0.00 | 332 |
| 1 | 387 | 6.83 | 6.79 | 34.215 | 26.829 | 127.2 | 0.690 | 0.81 | 11.8 | 65.0 | 2.80 | 36.9 | 0.00 | 0.00 | 0.00 | 390 |
| 1 | 400 ISL | 6.63 | 6.59 | 34.206 | 26.849 | 125.3 | 0.707 | 0.77 | 11.2 | 67.4 | 2.83 | 37.6 | 0.00 | 0.00 | 0.00 | 403 |
| 1 | 451 | 5.94 | 5.90 | 34.190 | 26.925 | 118.1 | 0.769 | 0.61 | 8.7 | 75.9 | 2.94 | 39.9 | 0.00 | 0.00 | 0.00 | 455 |
| 1 | 500 ISL | 5.84 | 5.80 | 34.254 | 26.989 | 112.7 | 0.825 | 0.41 | 5.9 | 79.9 | 3.01 | 40.5 | 0.00 | 0.00 | 0.00 | 504 |
| 1 | 518 | 5.81 | 5.77 | 34.277 | 27.011 | 110.8 | 0.846 | 0.34 | 4.9 | 81.4 | 3.04 | 40.7 | 0.00 | 0.00 | 0.00 | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 34 9.0 N | 121 9.0 W | 30/01/88 | 2202 UTC | 2040 M | 320 | 22 KT | 310 04 | 04 1 | 1019.8 MB | 13.8 C | 12.1 C | 3/8 | 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 | PSS 78 | 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 | 12.39 | 12.39 | 33.192 | 25.112 | 284.1 | 0.000 | 6.48 | 106.7 | 3.1 | 0.52 | 2.1 | 0.18 | 1.64 | 0.61 | 0 |
| 1 | 1 | 12.39 | 12.39 | 33.192 | 25.112 | 284.2 | 0.003 | 6.48 | 106.7 | 3.1 | 0.52 | 2.1 | 0.18 | 1.64 | 0.61 | 1 |
| 1 | 10 ISL | 12.37 | 12.37 | 33.191 | 25.115 | 284.1 | 0.028 | 6.45 | 106.2 | 3.3 | 0.52 | 2.0 | 0.18 | 1.60 | 0.62 | 10 |
| 1 | 11 | 12.37 | 12.37 | 33.191 | 25.115 | 284.1 | 0.031 | 6.44 | 106.0 | 3.3 | 0.52 | 2.0 | 0.18 | 1.59 | 0.62 | 11 |
| 1 | 20 ISL | 12.34 | 12.34 | 33.190 | 25.120 | 283.8 | 0.057 | 6.40 | 105.3 | 3.4 | 0.54 | 2.3 | 0.20 | 1.63 | 0.79 | 20 |
| 1 | 21 | 12.34 | 12.34 | 33.190 | 25.120 | 283.8 | 0.060 | 6.39 | 105.1 | 3.4 | 0.54 | 2.3 | 0.20 | 1.63 | 0.81 | 21 |
| 1 | 30 ISL | 12.26 | 12.26 | 33.192 | 25.137 | 282.4 | 0.085 | 6.14 | 100.9 | 4.4 | 0.60 | 3.3 | 0.28 | 1.22 | 0.68 | 30 |
| 1 | 31 | 12.25 | 12.25 | 33.191 | 25.138 | 282.4 | 0.088 | 6.11 | 100.3 | 4.6 | 0.61 | 3.5 | 0.29 | 1.16 | 0.66 | 31 |
| 1 | 41 | 12.07 | 12.06 | 33.271 | 25.235 | 273.5 | 0.116 | 5.76 | 94.3 | 6.8 | 0.73 | 5.6 | 0.32 | 0.55 | 0.49 | 41 |
| 1 | 50 ISL | 12.13 | 12.12 | 33.421 | 25.340 | 263.7 | 0.140 | 5.68 | 93.2 | 8.3 | 0.79 | 6.6 | 0.51 | 0.54 | 0.45 | 50 |
| 1 | 51 | 12.14 | 12.13 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|------|-------|------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.13 | 13.13 | 33.149 | 24.934 | 301.1 | 0.000 | 6.12 | 102.4 | 3.3 | 0.47 | 1.2 | 0.08 | 0.82 | 0.32 | 0 |
| 1 | 1 ISL | 13.13 | 13.13 | 33.149 | 24.934 | 301.1 | 0.003 | 6.12 | 102.4 | 3.3 | 0.47 | 1.2 | 0.08 | 0.82 | 0.32 | 1 |
| 1 | 16 ISL | 13.12 | 13.12 | 33.146 | 24.934 | 301.3 | 0.030 | 6.13 | 102.5 | 3.2 | 0.47 | 1.2 | 0.08 | 0.81 | 0.30 | 10 |
| 1 | 20 ISL | 12.89 | 12.89 | 33.150 | 24.983 | 297.0 | 0.060 | 6.12 | 101.9 | 3.5 | 0.50 | 1.7 | 0.11 | 0.93 | 0.36 | 20 |
| 1 | 30 ISL | 12.30 | 12.30 | 33.155 | 25.101 | 285.9 | 0.089 | 6.07 | 99.8 | 4.5 | 0.59 | 3.1 | 0.20 | 1.07 | 0.49 | 30 |
| 1 | 31 ISL | 12.24 | 12.24 | 33.155 | 25.112 | 284.9 | 0.092 | 6.06 | 99.5 | 4.6 | 0.60 | 3.3 | 0.21 | 1.07 | 0.50 | 31 |
| 1 | 40 ISL | 11.99 | 11.98 | 33.128 | 25.139 | 282.5 | 0.118 | 5.95 | 97.1 | 5.5 | 0.66 | 4.3 | 0.26 | 0.62 | 0.38 | 40 |
| 1 | 50 ISL | 11.98 | 11.97 | 33.185 | 25.185 | 278.4 | 0.146 | 5.86 | 95.7 | 6.0 | 0.71 | 4.9 | 0.36 | 0.47 | 0.35 | 50 |
| 1 | 51 ISL | 11.98 | 11.97 | 33.191 | 25.190 | 278.0 | 0.149 | 5.86 | 95.7 | 6.0 | 0.71 | 5.0 | 0.37 | 0.46 | 0.35 | 51 |
| 1 | 60 ISL | 12.51 | 12.50 | 33.356 | 25.217 | 275.6 | 0.173 | 5.93 | 98.0 | 5.6 | 0.64 | 3.8 | 0.42 | 0.82 | 0.63 | 60 |
| 1 | 71 ISL | 12.43 | 12.42 | 33.362 | 25.238 | 274.0 | 0.204 | 5.76 | 95.0 | 6.5 | 0.69 | 4.6 | 0.58 | 0.41 | 0.46 | 72 |
| 1 | 75 ISL | 12.39 | 12.38 | 33.375 | 25.255 | 272.4 | 0.215 | 5.71 | 94.1 | 6.8 | 0.71 | 5.0 | 0.57 | 0.41 | 0.43 | 76 |
| 1 | 81 ISL | 12.29 | 12.28 | 33.399 | 25.293 | 268.9 | 0.231 | 5.62 | 92.5 | 7.5 | 0.75 | 5.8 | 0.51 | 0.42 | 0.38 | 82 |
| 1 | 96 ISL | 11.65 | 11.64 | 33.468 | 25.467 | 252.7 | 0.270 | 5.08 | 82.5 | 11.0 | 0.99 | 10.2 | 0.27 | 0.16 | 0.19 | 97 |
| 1 | 100 ISL | 11.61 | 11.60 | 33.495 | 25.496 | 250.1 | 0.280 | 5.03 | 81.6 | 11.5 | 1.02 | 10.6 | 0.27 | 0.16 | 0.19 | 101 |
| 1 | 110 ISL | 11.38 | 11.37 | 33.583 | 25.607 | 239.7 | 0.304 | 4.75 | 76.7 | 13.7 | 1.13 | 12.5 | 0.26 | 0.15 | 0.19 | 111 |
| 1 | 125 ISL | 9.98 | 9.97 | 33.795 | 26.017 | 200.8 | 0.338 | 3.23 | 50.7 | 23.8 | 1.67 | 21.8 | 0.02 | 0.07 | 0.12 | 126 |
| 1 | 150 ISL | 9.41 | 9.39 | 33.935 | 26.221 | 181.8 | 0.385 | 2.77 | 42.9 | 29.5 | 1.88 | 25.0 | 0.01 | 0.05 | 0.10 | 151 |
| 1 | 151 ISL | 9.39 | 9.37 | 33.931 | 26.222 | 181.8 | 0.387 | 2.75 | 42.6 | 29.5 | 1.89 | 25.1 | 0.01 | 0.05 | 0.10 | 152 |
| 1 | 175 ISL | 8.91 | 8.89 | 33.937 | 26.303 | 174.4 | 0.430 | 2.91 | 44.6 | 31.0 | 1.91 | 25.8 | 0.01 | 0.04 | 0.07 | 176 |
| 1 | 200 ISL | 8.62 | 8.60 | 33.996 | 26.395 | 166.1 | 0.472 | 2.83 | 43.1 | 34.0 | 1.97 | 26.9 | 0.01 | 0.05 | 0.07 | 202 |
| 1 | 205 ISL | 8.57 | 8.55 | 34.009 | 26.413 | 164.4 | 0.481 | 2.79 | 42.4 | 34.7 | 1.98 | 27.2 | 0.01 | 0.05 | 0.07 | 207 |
| 1 | 232 ISL | 8.25 | 8.23 | 34.038 | 26.485 | 158.0 | 0.524 | 2.61 | 39.4 | 38.0 | 2.07 | 28.5 | 0.01 | 0.05 | 0.07 | 234 |
| 1 | 250 ISL | 7.98 | 7.95 | 34.060 | 26.542 | 152.7 | 0.552 | 2.39 | 35.9 | 41.6 | 2.16 | 29.8 | 0.01 | 0.05 | 0.07 | 252 |
| 1 | 271 ISL | 7.72 | 7.69 | 34.092 | 26.606 | 146.9 | 0.584 | 2.09 | 31.2 | 46.1 | 2.29 | 31.3 | 0.00 | 0.05 | 0.07 | 273 |
| 1 | 300 ISL | 7.68 | 7.65 | 34.157 | 26.663 | 142.0 | 0.626 | 1.60 | 23.9 | 50.4 | 2.47 | 32.8 | 0.00 | 0.05 | 0.07 | 302 |
| 1 | 323 ISL | 7.66 | 7.63 | 34.201 | 26.701 | 138.8 | 0.658 | 1.25 | 18.6 | 53.5 | 2.59 | 33.8 | 0.00 | 0.05 | 0.07 | 326 |
| 1 | 378 ISL | 6.98 | 6.94 | 34.202 | 26.798 | 130.1 | 0.732 | 0.97 | 14.2 | 62.0 | 2.75 | 36.2 | 0.00 | 0.05 | 0.07 | 381 |
| 1 | 400 ISL | 6.73 | 6.69 | 34.209 | 26.838 | 126.4 | 0.760 | 0.84 | 12.3 | 65.5 | 2.81 | 37.2 | 0.00 | 0.05 | 0.07 | 403 |
| 1 | 441 ISL | 6.28 | 6.24 | 34.221 | 26.907 | 120.1 | 0.811 | 0.62 | 9.0 | 72.2 | 2.92 | 38.9 | 0.00 | 0.05 | 0.07 | 445 |
| 1 | 500 ISL | 5.65 | 5.61 | 34.217 | 26.983 | 113.1 | 0.879 | 0.48 | 6.8 | 82.2 | 3.03 | 41.0 | 0.00 | 0.05 | 0.07 | 504 |
| 1 | 508 ISL | 5.57 | 5.53 | 34.217 | 26.993 | 112.1 | 0.888 | 0.46 | 6.5 | 83.6 | 3.05 | 41.3 | 0.00 | 0.05 | 0.07 | 512 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|------|-------|------|-------|--------|-------|
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.66 | 13.66 | 33.159 | 24.835 | 310.4 | 0.000 | 6.03 | 102.0 | 2.7 | 0.42 | 0.5 | 0.03 | 0.40 | 0.21 | 0 |
| 1 | 2 ISL | 13.66 | 13.66 | 33.159 | 24.835 | 310.5 | 0.006 | 6.03 | 102.0 | 2.7 | 0.42 | 0.5 | 0.03 | 0.40 | 0.21 | 2 |
| 1 | 10 ISL | 13.66 | 13.66 | 33.159 | 24.835 | 310.7 | 0.031 | 6.04 | 102.1 | 2.7 | 0.42 | 0.5 | 0.03 | 0.40 | 0.21 | 10 |
| 1 | 17 ISL | 13.66 | 13.66 | 33.159 | 24.836 | 310.9 | 0.053 | 6.05 | 102.3 | 2.6 | 0.41 | 0.5 | 0.03 | 0.40 | 0.22 | 17 |
| 1 | 20 ISL | 13.66 | 13.66 | 33.159 | 24.836 | 310.9 | 0.062 | 6.06 | 102.5 | 2.6 | 0.41 | 0.5 | 0.03 | 0.40 | 0.22 | 20 |
| 1 | 30 ISL | 13.67 | 13.67 | 33.158 | 24.833 | 311.5 | 0.093 | 6.08 | 102.8 | 2.6 | 0.40 | 0.5 | 0.03 | 0.39 | 0.23 | 30 |
| 1 | 37 ISL | 13.68 | 13.67 | 33.157 | 24.831 | 311.9 | 0.115 | 6.08 | 102.9 | 2.6 | 0.40 | 0.5 | 0.03 | 0.39 | 0.24 | 37 |
| 1 | 50 ISL | 13.48 | 13.47 | 33.141 | 24.859 | 309.5 | 0.155 | 6.03 | 101.6 | 2.9 | 0.44 | 1.0 | 0.06 | 0.39 | 0.26 | 50 |
| 1 | 56 ISL | 13.37 | 13.36 | 33.133 | 24.875 | 308.2 | 0.174 | 6.01 | 101.0 | 3.0 | 0.46 | 1.2 | 0.08 | 0.39 | 0.27 | 56 |
| 1 | 72 ISL | 13.13 | 13.12 | 33.125 | 24.917 | 304.6 | 0.223 | 6.01 | 100.5 | 3.3 | 0.48 | 1.5 | 0.10 | 0.35 | 0.23 | 73 |
| 1 | 75 ISL | 13.05 | 13.04 | 33.122 | 24.931 | 303.3 | 0.232 | 5.98 | 99.8 | 3.5 | 0.50 | 1.7 | 0.12 | 0.31 | 0.21 | 76 |
| 1 | 81 ISL | 12.88 | 12.88 | 33.121 | 24.962 | 300.5 | 0.250 | 5.89 | 98.0 | 4.0 | 0.54 | 2.3 | 0.17 | 0.23 | 0.17 | 82 |
| 1 | 92 ISL | 12.74 | 12.73 | 33.162 | 25.023 | 295.0 | 0.283 | 5.73 | 95.0 | 4.6 | 0.59 | 3.4 | 0.20 | 0.13 | 0.12 | 93 |
| 1 | 100 ISL | 12.69 | 12.68 | 33.174 | 25.042 | 293.3 | 0.307 | 5.65 | 93.6 | 4.9 | 0.62 | 3.7 | 0.19 | 0.11 | 0.11 | 101 |
| 1 | 101 ISL | 12.68 | 12.67 | 33.177 | 25.047 | 293.0 | 0.309 | 5.64 | 93.4 | 4.9 | 0.62 | 3.8 | 0.19 | 0.11 | 0.11 | 102 |
| 1 | 111 ISL | 12.49 | 12.48 | 33.250 | 25.140 | 284.3 | 0.338 | 5.40 | 89.1 | 5.9 | 0.70 | 5.5 | 0.14 | 0.08 | 0.10 | 112 |
| 1 | 125 ISL | 11.40 | 11.38 | 33.409 | 25.468 | 253.2 | 0.376 | 4.83 | 78.0 | 10.1 | 0.97 | 10.4 | 0.04 | 0.06 | 0.08 | 126 |
| 1 | 142 ISL | 10.45 | 10.45 | 33.568 | 25.757 | 226.0 | 0.417 | 4.26 | 67.4 | 15.8 | 1.29 | 16.0 | 0.01 | 0.03 | 0.06 | 143 |
| 1 | 150 ISL | 10.03 | 10.01 | 33.654 | 25.899 | 212.5 | 0.434 | 4.02 | 63.1 | 18.8 | 1.42 | 18.3 | 0.01 | 0.02 | 0.05 | 151 |
| 1 | 161 ISL | 9.51 | 9.49 | 33.762 | 26.070 | 196.4 | 0.457 | 3.74 | 58.0 | 22.6 | 1.57 | 21.0 | 0.01 | 0.02 | 0.03 | 162 |
| 1 | 182 ISL | 8.96 | 8.94 | 33.862 | 26.237 | 180.8 | 0.496 | 3.47 | 53.2 | 27.1 | 1.73 | 23.6 | 0.01 | 0.01 | 0.04 | 183 |
| 1 | 200 ISL | 8.64 | 8.62 | 33.938 | 26.347 | 170.6 | 0.528 | 3.12 | 47.5 | 31.2 | 1.87 | 25.6 | 0.01 | 0.01 | 0.04 | 202 |
| 1 | 207 ISL | 8.54 | 8.52 | 33.961 | 26.380 | 167.6 | 0.540 | 3.00 | 45.6 | 32.7 | 1.91 | 26.3 | 0.01 | 0.01 | 0.04 | 209 |
| 1 | 236 ISL | 8.05 | 8.05 | 34.005 | 26.486 | 157.9 | 0.587 | 2.97 | 44.7 | 37.2 | 1.99 | 27.6 | 0.01 | 0.01 | 0.04 | 238 |
| 1 | 250 ISL | 7.82 | 7.80 | 34.012 | 26.528 | 154.0 | 0.609 | 2.90 | 43.4 | 39.8 | 2.04 | 28.4 | 0.01 | 0.01 | 0.04 | 252 |
| 1 | 275 ISL | 7.41 | 7.38 | 34.020 | 26.594 | 148.0 | 0.647 | 2.71 | 40.1 | 44.4 | 2.14 | 30.0 | 0.01 | 0.01 | 0.04 | 277 |
| 1 | 300 ISL | 7.15 | 7.12 | 34.034 | 26.641 | 143.7 | 0.683 | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|------------|-----------|-----------|----------|--------|-------|---------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 33 9.1 N | 123 13.3 W | 31/01/88 | 1449 UTC | 4266 M | 350 | 20 KT | 3 40 05 | 09 1 | 1019.0 MB | 12.5 C | 10.1 C | 7/8 | 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.75 | 13.75 | 33.154 | 24.813 | 312.6 | 0.000 | 6.03 | 102.2 | 2.5 | 0.40 | 0.3 | 0.03 | 0.43 | 0.22 | 0 |
| 1 | 1 | 13.75 | 13.75 | 33.154 | 24.813 | 312.6 | 0.003 | 6.03 | 102.2 | 2.5 | 0.40 | 0.3 | 0.03 | 0.43 | 0.22 | 1 |
| 1 | 10 ISL | 13.75 | 13.75 | 33.155 | 24.814 | 312.7 | 0.031 | 6.02 | 102.0 | 2.5 | 0.40 | 0.3 | 0.03 | 0.42 | 0.23 | 10 |
| 1 | 15 | 13.75 | 13.75 | 33.155 | 24.814 | 312.9 | 0.047 | 6.01 | 101.8 | 2.5 | 0.40 | 0.3 | 0.03 | 0.42 | 0.23 | 15 |
| 1 | 20 ISL | 13.75 | 13.75 | 33.155 | 24.814 | 313.0 | 0.063 | 6.02 | 102.0 | 2.5 | 0.40 | 0.3 | 0.03 | 0.42 | 0.23 | 20 |
| 1 | 30 | 13.76 | 13.76 | 33.155 | 24.813 | 313.4 | 0.094 | 6.03 | 102.2 | 2.5 | 0.40 | 0.3 | 0.03 | 0.41 | 0.23 | 30 |
| 1 | 40 | 13.77 | 13.76 | 33.154 | 24.810 | 314.0 | 0.125 | 6.01 | 101.9 | 2.5 | 0.39 | 0.3 | 0.03 | 0.39 | 0.20 | 40 |
| 1 | 50 | 13.74 | 13.73 | 33.157 | 24.819 | 313.4 | 0.157 | | | | 0.41 | 0.5 | 0.04 | 0.42 | 0.26 | 50 |
| 1 | 60 | 13.66 | 13.65 | 33.156 | 24.835 | 312.2 | 0.188 | 5.99 | 101.3 | 2.6 | 0.42 | 0.5 | 0.04 | 0.34 | 0.26 | 60 |
| 1 | 75 | 13.50 | 13.49 | 33.142 | 24.857 | 310.5 | 0.235 | 5.97 | 100.6 | 2.7 | 0.44 | 0.8 | 0.07 | 0.26 | 0.26 | 76 |
| 1 | 91 | 13.37 | 13.36 | 33.134 | 24.877 | 308.9 | 0.284 | 5.94 | 99.8 | 2.7 | 0.46 | 1.0 | 0.10 | 0.18 | 0.15 | 92 |
| 1 | 100 ISL | 13.26 | 13.25 | 33.141 | 24.905 | 306.5 | 0.312 | 5.87 | 98.4 | 3.1 | 0.50 | 1.5 | 0.15 | 0.14 | 0.12 | 101 |
| 1 | 106 | 13.10 | 13.09 | 33.147 | 24.941 | 303.2 | 0.330 | 5.84 | 97.6 | 3.4 | 0.52 | 1.9 | 0.17 | 0.12 | 0.10 | 107 |
| 1 | 121 | 12.02 | 12.00 | 33.311 | 25.277 | 271.4 | 0.373 | 5.03 | 82.2 | 7.6 | 0.85 | 8.1 | 0.05 | 0.06 | 0.08 | 122 |
| 1 | 125 ISL | 11.75 | 11.73 | 33.353 | 25.360 | 263.6 | 0.384 | 4.84 | 78.7 | 9.0 | 0.94 | 9.7 | 0.04 | 0.05 | 0.08 | 126 |
| 1 | 141 | 10.81 | 10.79 | 33.514 | 25.656 | 235.7 | 0.424 | 4.17 | 66.5 | 14.8 | 1.28 | 15.5 | 0.01 | 0.04 | 0.06 | 142 |
| 1 | 150 ISL | 10.43 | 10.41 | 33.600 | 25.789 | 223.1 | 0.445 | 3.85 | 60.9 | 17.9 | 1.43 | 18.0 | 0.01 | 0.02 | 0.04 | 151 |
| 1 | 160 | 10.08 | 10.06 | 33.684 | 25.915 | 211.3 | 0.466 | 3.55 | 55.8 | 20.9 | 1.57 | 20.3 | 0.01 | 0.01 | 0.03 | 161 |
| 1 | 186 | 9.41 | 9.39 | 33.826 | 26.137 | 190.6 | 0.518 | 3.20 | 49.6 | 26.0 | 1.77 | 23.7 | 0.01 | 0.01 | 0.03 | 187 |
| 1 | 200 ISL | 9.22 | 9.20 | 33.903 | 26.228 | 182.1 | 0.545 | 2.98 | 46.0 | 28.5 | 1.86 | 25.0 | 0.01 | 0.01 | 0.03 | 202 |
| 1 | 220 | 9.01 | 8.99 | 33.994 | 26.333 | 172.5 | 0.580 | 2.68 | 41.2 | 31.9 | 1.98 | 26.5 | 0.01 | 0.00 | 0.03 | 222 |
| 1 | 250 ISL | 8.59 | 8.56 | 34.060 | 26.451 | 161.8 | 0.630 | 2.42 | 36.8 | 36.6 | 2.11 | 28.3 | 0.00 | | | 252 |
| 1 | 255 | 8.51 | 8.48 | 34.065 | 26.467 | 160.2 | 0.638 | 2.39 | 36.3 | 37.3 | 2.13 | 28.5 | 0.00 | | | 257 |
| 1 | 295 | 7.81 | 7.78 | 34.063 | 26.570 | 150.8 | 0.700 | 2.40 | 35.9 | 42.9 | 2.19 | 30.0 | 0.00 | | | 297 |
| 1 | 300 ISL | 7.74 | 7.71 | 34.064 | 26.581 | 149.8 | 0.708 | 2.37 | 35.4 | 43.7 | 2.21 | 30.3 | 0.00 | | | 302 |
| 1 | 349 | 7.14 | 7.11 | 34.080 | 26.680 | 140.9 | 0.779 | 1.90 | 28.0 | 52.4 | 2.41 | 33.3 | 0.00 | | | 352 |
| 1 | 400 ISL | 6.71 | 6.67 | 34.123 | 26.772 | 132.6 | 0.849 | 1.32 | 19.2 | 60.6 | 2.64 | 36.1 | 0.00 | | | 403 |
| 1 | 413 | 6.61 | 6.57 | 34.135 | 26.795 | 130.5 | 0.866 | 1.17 | 17.0 | 62.7 | 2.70 | 36.8 | 0.00 | | | 416 |
| 1 | 481 | 5.95 | 5.91 | 34.193 | 26.927 | 118.4 | 0.951 | 0.63 | 9.0 | 75.8 | 2.94 | 39.9 | 0.00 | | | 485 |
| 1 | 500 ISL | 5.83 | 5.79 | 34.204 | 26.950 | 116.3 | 0.973 | 0.57 | 8.1 | 78.2 | 2.97 | 40.3 | 0.00 | | | 504 |
| 1 | 560 | 5.45 | 5.40 | 34.239 | 27.025 | 109.6 | 1.041 | 0.39 | 5.5 | 85.6 | 3.06 | 41.5 | 0.00 | | | 565 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 2.3 W | 30/01/88 | 1058 UTC | 573 M | 280 | 20 KT | 3 40 05 | 09 1 | 1018.2 MB | 12.8 C | 11.9 C | 7/8 | 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 12.73 | 12.73 | 33.453 | 25.248 | 271.1 | 0.000 | 6.07 | 100.9 | 7.0 | 0.63 | 3.8 | 0.16* | 1.20 | 0.40 | 0 |
| 1 | 2 A | 12.73 | 12.73 | 33.453 | 25.248 | 271.2 | 0.005 | 6.07 | 100.9 | 7.0 | 0.63 | 3.8 | 0.16 | 1.20 | 0.40 | 2 |
| 1 | 10 ISL | 12.69 | 12.69 | 33.453 | 25.256 | 270.6 | 0.027 | 6.08 | 100.9 | 7.0 | 0.61 | 3.8 | 0.16 | 1.25 | 0.38 | 10 |
| 1 | 12 | 12.68 | 12.68 | 33.453 | 25.258 | 270.5 | 0.033 | 6.08 | 100.9 | 7.0 | 0.61 | 3.8 | 0.16 | 1.27 | 0.38 | 12 |
| 1 | 20 ISL | 12.66 | 12.66 | 33.457 | 25.265 | 270.0 | 0.054 | 6.06 | 100.5 | 7.1 | 0.63 | 4.0 | 0.16 | 1.37 | 0.48 | 20 |
| 1 | 27 | 12.65 | 12.65 | 33.461 | 25.271 | 269.7 | 0.073 | 6.04 | 100.2 | 7.1 | 0.64 | 4.1 | 0.16 | 1.45 | 0.57 | 27 |
| 1 | 30 ISL | 12.59 | 12.59 | 33.468 | 25.288 | 268.2 | 0.081 | 5.96 | 98.7 | 7.5 | 0.67 | 4.6 | 0.18 | 1.34 | 0.56 | 30 |
| 1 | 41 | 12.29 | 12.28 | 33.500 | 25.371 | 260.6 | 0.110 | 5.59 | 92.0 | 9.2 | 0.81 | 6.9 | 0.28 | 0.82 | 0.46 | 41 |
| 1 | 50 ISL | 12.05 | 12.04 | 33.525 | 25.436 | 254.6 | 0.133 | 5.34 | 87.5 | 10.5 | 0.91 | 8.4 | 0.34 | 0.48 | 0.36 | 50 |
| 1 | 56 | 11.89 | 11.88 | 33.543 | 25.480 | 250.5 | 0.148 | 5.17 | 84.4 | 11.5 | 0.97 | 9.4 | 0.36 | 0.31 | 0.29 | 56 |
| 1 | 72 | 11.43 | 11.42 | 33.607 | 25.615 | 238.0 | 0.188 | 4.68 | 75.7 | 14.7 | 1.15 | 12.6 | 0.34 | 0.16 | 0.22 | 73 |
| 1 | 75 ISL | 11.29 | 11.28 | 33.627 | 25.656 | 234.1 | 0.195 | 4.50 | 72.6 | 15.8 | 1.21 | 13.7 | 0.29 | 0.15 | 0.23 | 76 |
| 1 | 87 | 10.69 | 10.68 | 33.711 | 25.829 | 217.9 | 0.222 | 3.81 | 60.7 | 19.8 | 1.46 | 17.9 | 0.10 | 0.11 | 0.25 | 88 |
| 1 | 100 ISL | 10.22 | 10.21 | 33.769 | 25.956 | 206.1 | 0.249 | 3.45 | 54.4 | 21.8 | 1.59 | 20.2 | 0.03 | 0.04 | 0.11 | 101 |
| 1 | 102 | 10.17 | 10.16 | 33.776 | 25.970 | 204.8 | 0.253 | 3.41 | 53.7 | 22.0 | 1.60 | 20.4 | 0.03 | 0.03 | 0.09 | 103 |
| 1 | 117 | 10.01 | 10.00 | 33.821 | 26.032 | 199.2 | 0.284 | 3.17 | 49.8 | 24.2 | 1.71 | 21.9 | 0.03 | 0.04 | 0.09 | 118 |
| 1 | 125 ISL | 9.89 | 9.88 | 33.852 | 26.077 | 195.1 | 0.300 | 3.03 | 47.4 | 25.7 | 1.77 | 22.8 | 0.02 | 0.04 | 0.09 | 126 |
| 1 | 142 | 9.62 | 9.60 | 33.914 | 26.170 | 186.5 | 0.332 | 2.76 | 43.0 | 28.6 | 1.89 | 24.4 | 0.01 | 0.04 | 0.10 | 143 |
| 1 | 150 ISL | 9.53 | 9.51 | 33.930 | 26.198 | 184.1 | 0.347 | 2.72 | 42.3 | 29.3 | 1.91 | 24.8 | 0.01 | 0.03 | 0.09 | 151 |
| 1 | 173 | 9.30 | 9.28 | 33.972 | 26.269 | 177.8 | 0.388 | 2.60 | 40.2 | 31.5 | 1.98 | 25.8 | 0.01 | 0.01 | 0.06 | 174 |
| 1 | 200 ISL | 9.00 | 8.98 | 34.058 | 26.384 | 167.2 | 0.435 | 2.13 | 32.7 | 36.7 | 2.17 | 28.0 | 0.01 | 0.01 | 0.06 | 202 |
| 1 | 202 | 8.98 | 8.96 | 34.064 | 26.392 | 166.5 | 0.438 | 2.09 | 32.1 | 37.1 | 2.18 | 28.2 | 0.01 | 0.01 | 0.06 | 204 |
| 1 | 240 | 8.62 | 8.59 | 34.121 | 26.494 | 157.5 | 0.500 | 1.64 | 25.0 | 42.8 | 2.37 | 30.4 | 0.01 | 0.01 | 0.05 | 242 |
| 1 | 250 ISL | 8.47 | 8.44 | 34.137 | 26.530 | 154.2 | 0.515 | 1.51 | 22.9 | 45.0 | 2.42 | 31.0 | 0.01 | 0.01 | 0.05 | 252 |
| 1 | 290 | 7.87 | 7.84 | 34.185 | 26.657 | 142.5 | 0.575 | 1.08 | 16.2 | 54.2 | 2.62 | 33.2 | 0.01 | 0.01 | 0.05 | 292 |
| 1 | 300 ISL | 7.74 | 7.71 | 34.188 | 26.679 | 140.6 | 0.589 | 1.02 | 15.2 | 56.1 | 2.65 | 33.6 | 0.01 | | | 302 |
| 1 | 339 | 7.33 | 7.30 | 34.191 | 26.740 | 135 | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 40.6

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|--------|-------|------|------|-------|--------|-------|
| 34 13.5 N | 119 24.7 W | 30/01/88 | 0636 UTC | 34 M | 070 | 08 KT | | | 1019.5 MB | 12.3 | 12.0 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 | PSS 78 | THETA | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.36 | 13.36 | 33.447 | 25.119 | 283.4 | 0.000 | 6.87 | 115.7 | 4.3 | 0.34 | 0.3 | 0.02 | 2.43 | 0.35 | 0 | |
| 1 | 10 | 13.28 | 13.28 | 33.446 | 25.134 | 282.3 | 0.028 | 6.84 | 115.0 | 4.3 | 0.34 | 0.3 | 0.02 | 2.84 | 0.41 | 10 | |
| 1 | 20 | 13.17 | 13.17 | 33.453 | 25.162 | 279.9 | 0.056 | 6.71 | 112.5 | 4.6 | 0.36 | 0.4 | 0.03 | 3.96 | 0.62 | 20 | |
| | 30 ISL | 12.64 | 12.64 | 33.459 | 25.271 | 269.7 | 0.084 | 6.00 | 99.5 | 8.1 | 0.65 | 3.8 | 0.20 | 1.68 | 0.40 | 30 | |
| 1 | 31 | 12.59 | 12.59 | 33.460 | 25.282 | 268.8 | 0.087 | 5.93 | 98.2 | 8.5 | 0.68 | 4.1 | 0.22 | 1.45 | 0.38 | 31 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 42

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|--------|-------|------|------|-------|--------|-------|
| 34 10.7 N | 119 30.5 W | 30/01/88 | 0505 UTC | 101 M | 240 | 12 KT | | | 1019.5 MB | 13.8 | 13.5 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 | PSS 78 | THETA | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.30 | 13.30 | 33.451 | 25.134 | 282.0 | 0.000 | 7.22 | 121.4 | 3.8 | 0.34 | 0.2 | 0.00 | 4.40 | 0.53 | 0 | |
| 1 | 10 | 13.27 | 13.27 | 33.447 | 25.137 | 282.0 | 0.028 | 7.22 | 121.3 | 3.8 | 0.34 | 0.2 | 0.00 | 5.24 | 0.64 | 10 | |
| 1 | 20 | 12.83 | 12.83 | 33.451 | 25.228 | 273.6 | 0.056 | 5.95 | 99.1 | 5.7 | 0.55 | 2.5 | 0.14 | 2.14 | 0.98 | 20 | |
| | 30 ISL | 12.65 | 12.65 | 33.459 | 25.269 | 269.9 | 0.083 | 5.88 | 97.5 | 6.9 | 0.62 | 3.9 | 0.21 | 1.52 | 0.53 | 30 | |
| 1 | 31 | 12.64 | 12.64 | 33.461 | 25.273 | 269.6 | 0.086 | 5.87 | 97.4 | 7.0 | 0.63 | 4.1 | 0.21 | 1.51 | 0.48 | 31 | |
| 1 | 40 | 12.48 | 12.47 | 33.481 | 25.320 | 265.4 | 0.110 | 5.35 | 88.4 | 8.1 | 0.77 | 6.4 | 0.23 | 0.63 | 0.49 | 40 | |
| 1 | 50 | 12.10 | 12.09 | 33.522 | 25.424 | 255.7 | 0.136 | 4.91 | 80.5 | 10.2 | 0.93 | 9.2 | 0.21 | 0.38 | 0.34 | 50 | |
| 1 | 61 | 11.47 | 11.46 | 33.594 | 25.598 | 239.4 | 0.163 | 4.36 | 70.6 | 13.7 | 1.15 | 13.1 | 0.11 | 0.20 | 0.17 | 61 | |
| 75 ISL | 10.73 | 10.72 | 33.700 | 25.813 | 219.2 | 0.195 | 3.82 | 60.9 | 18.7 | 1.40 | 17.2 | 0.04 | 0.10 | 0.13 | 76 | | |
| 1 | 76 | 10.68 | 10.67 | 33.708 | 25.828 | 217.8 | 0.197 | 3.78 | 60.2 | 19.1 | 1.42 | 17.5 | 0.04 | 0.09 | 0.13 | 77 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|-----------|-------|--------|--------|-------|--------|-------|
| 33 52.6 N | 120 8.1 W | 29/01/88 | 2313 UTC | 101 M | 270 | 15 KT | 270 | 04 | 08 | 1 | 1019.3 MB | 14.1 | 13.3 C | 6/8 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 | PSS 78 | THETA | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 13.71 | 13.71 | 33.414 | 25.022 | 292.7 | 0.000 | 6.48 | 109.9 | 3.6 | 0.35 | 0.2 | 0.01 | 1.25 | 0.35 | 0 | | |
| 1 | 1 | 13.71 | 13.71 | 33.414 | 25.022 | 292.7 | 0.003 | 6.48 | 109.9 | 3.6 | 0.35 | 0.2 | 0.01 | 1.25 | 0.35 | 1 | |
| 10 ISL | 13.70 | 13.70 | 33.414 | 25.024 | 292.7 | 0.029 | 6.50 | 110.2 | 3.5 | 0.35 | 0.2 | 0.01 | 1.39 | 0.34 | 10 | | |
| 1 | 11 | 13.70 | 13.70 | 33.414 | 25.024 | 292.7 | 0.032 | 6.50 | 110.2 | 3.5 | 0.35 | 0.2 | 0.01 | 1.42 | 0.34 | 11 | |
| 20 ISL | 13.58 | 13.58 | 33.413 | 25.048 | 290.7 | 0.058 | 6.51 | 110.1 | 3.5 | 0.35 | 0.2 | 0.00 | 1.65 | 0.39 | 20 | | |
| 1 | 21 | 13.57 | 13.57 | 33.413 | 25.051 | 290.5 | 0.061 | 6.51 | 110.1 | 3.5 | 0.35 | 0.2 | 0.00 | 1.68 | 0.40 | 21 | |
| 1 | 30 | 12.98 | 12.98 | 33.426 | 25.179 | 278.5 | 0.087 | 5.87 | 98.0 | 5.0 | 0.52 | 2.5 | 0.12 | 1.83 | 0.78 | 30 | |
| 1 | 40 | 12.43 | 12.42 | 33.499 | 25.343 | 263.2 | 0.114 | 5.51 | 91.0 | 9.0 | 0.77 | 6.3 | 0.21 | 0.84 | 0.34 | 40 | |
| 1 | 50 | 12.37 | 12.36 | 33.509 | 25.363 | 261.6 | 0.140 | 5.36 | 88.4 | 9.5 | 0.79 | 6.8 | 0.20 | 0.80 | 0.37 | 50 | |
| 1 | 60 | 11.60 | 11.59 | 33.585 | 25.567 | 242.3 | 0.165 | 4.46 | 72.4 | 13.8 | 1.11 | 12.4 | 0.18 | 0.28 | 0.26 | 60 | |
| 1 | 75 | 10.77 | 10.76 | 33.693 | 25.801 | 220.4 | 0.200 | 3.82 | 60.9 | 18.9 | 1.40 | 17.3 | 0.10 | 0.13 | 0.18 | 76 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|-----------|-------|--------|--------|-------|--------|-------|
| 33 44.7 N | 120 24.6 W | 29/01/88 | 1955 UTC | 959 M | 280 | 08 KT | 280 | 05 | 10 | 1 | 1020.1 MB | 14.8 | 13.1 C | 4/8 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 | PSS 78 | THETA | | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 13.18 | 13.18 | 33.449 | 25.156 | 279.9 | 0.000 | 6.26 | 105.0 | 6.5 | 0.57 | 3.0 | 0.08 | 1.52 | 0.47 | 0 | | |
| 1 | 13.18 | 13.18 | 33.449 | 25.156 | 279.9 | 0.003 | 6.26 | 105.0 | 6.5 | 0.57 | 3.0 | 0.08 | 1.52 | 0.47 | 1 | | |
| 10 ISL | 13.01 | 13.01 | 33.447 | 25.189 | 277.1 | 0.028 | 6.23 | 104.1 | 6.8 | 0.58 | 3.3 | 0.09 | 1.45 | 0.46 | 10 | | |
| 1 | 16 | 12.83 | 12.83 | 33.449 | 25.226 | 273.7 | 0.044 | 6.21 | 103.4 | 7.0 | 0.58 | 3.5 | 0.09 | 1.40 | 0.45 | 16 | |
| 20 ISL | 12.74 | 12.74 | 33.457 | 25.250 | 271.5 | 0.055 | 5.97 | 99.2 | 7.3 | 0.63 | 4.2 | 0.14 | 1.11 | 0.41 | 20 | | |
| 1 | 31 | 12.41 | 12.41 | 33.482 | 25.334 | 263.8 | 0.085 | 5.34 | 88.1 | 8.6 | 0.80 | 6.8 | 0.29 | 0.35 | 0.30 | 31 | |
| 1 | 41 | 11.96 | 11.95 | 33.499 | 25.432 | 254.6 | 0.111 | 5.27 | 86.2 | 10.3 | 0.92 | 9.1 | 0.33 | 0.24 | 0.29 | 41 | |
| 50 ISL | 11.66 | 11.65 | 33.546 | 25.525 | 246.0 | 0.133 | 5.01 | 81.4 | 12.4 | 1.03 | 11.0 | 0.30 | 0.18 | 0.23 | 50 | | |
| 1 | 51 | 11.63 | 11.62 | 33.551 | 25.535 | 245.2 | 0.136 | 4.98 | 80.9 | 12.6 | 1.04 | 11.2 | 0.29 | 0.18 | 0.22 | 51 | |
| 1 | 60 | 11.46 | 11.45 | 33.576 | 25.585 | 240.5 | 0.157 | 4.75 | 76.9 | 13.7 | 1.10 | 12.5 | 0.25 | 0.15 | 0.21 | 60 | |
| 1 | 70 | 10.72 | 10.71 | 33.629 | 25.760 | 224.1 | 0.181 | 4.07 | 64.8 | 17.0 | 1.34 | 16.7 | 0.11 | 0.06 | 0.12 | 71 | |
| 75 ISL | 10.51 | 10.50 | 33.655 | 25.817 | 218.8 | 0.192 | 3.88 | 61.5 | 18.3 | 1.42 | 18.0 | 0.07 | 0.05 | 0.11 | 76 | | |
| 1 | 81 | 10.30 | 10.29 | 33.689 | 25.879 | 212.9 | 0.205 | 3.70 | 58.4 | 19.8 | 1.50 | 19.3 | 0.04 | 0.04 | 0.10 | 82 | |
| 1 | 95 | 9.72 | 9.71 | 33.807 | 26.070 | 195.1 | 0.233 | 3.21 | 50.1 | 24.9 | 1.70 | 22.7 | 0.01 | 0.02 | 0.06 | 96 | |
| 100 ISL | 9.57 | 9.57 | 33.845 | 26.122 | 190.2 | 0.243 | 3.09 | 48.1 | 26.4 | 1.75 | 23.4 | 0.01 | 0.02 | 0.06 | 101 | | |
| 1 | IIO | 9.39 | 9.38 | 33.909 | 26.204 | 182.7 | 0.262 | 2.92 | 45.2 | 28.8 | 1.83 | 24.4 | 0.01 | 0.01 | 0.06 | 111 | |
| 1 | 125 | 9.21 | 9.20 | 33.961 | 26.274 | 176.3 | 0.289 | 2.74 | 42.3 | 30.6 | 1.91 | 25.6 | 0.01 | 0.01 | 0.06 | 126 | |
| 1 | 150 ISL | 9.03 | 9.01 | 34.006 | 26.338 | 170.6 | 0.332 | 2.65 | 40.7 | 32.5 | 1.97 | 26.3 | 0.01 | 0.01 | 0.04 | 151 | |
| 1 | 151 | 9.02 | 9.00 | 34.008 | 26.341 | 170.4 | 0.334 | 2.65 | 40.7 | 32.6 | 1.97 | 26.3 | 0.01 | 0.01 | 0.04 | 152 | |
| 1 | 176</td | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 45.4 W | 29/01/88 | 1538 UTC | 1622 M | 290 | 06 KT | 300 06 | 10 1 | 1019.3 MB | 12.8 C | 11.9 C | 4/8 | SC | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.22 | 13.22 | 33.434 | 25.137 | 281.8 | 0.000 | 6.23 | 104.6 | 6.1 | 0.54 | 2.6 | 0.06 | 1.13 | 0.36 | 0 | |
| 10 | ISL | 12.97 | 12.97 | 33.434 | 25.187 | 277.3 | 0.028 | 6.16 | 102.9 | 6.4 | 0.57 | 3.2 | 0.07 | 0.94 | 0.35 | 10 | |
| 16 | 12.82 | 12.82 | 33.434 | 25.216 | 274.6 | 0.045 | 6.12 | 101.9 | 6.6 | 0.58 | 3.5 | 0.07 | 0.83 | 0.34 | 16 | | |
| 20 | ISL | 12.71 | 12.71 | 33.440 | 25.243 | 272.2 | 0.055 | 6.06 | 100.6 | 7.0 | 0.61 | 4.1 | 0.09 | 0.90 | 0.37 | 20 | |
| 29 | 12.49 | 12.49 | 33.460 | 25.301 | 266.9 | 0.080 | 5.93 | 98.0 | 8.0 | 0.69 | 5.4 | 0.15 | 1.07 | 0.45 | 29 | | |
| 30 | ISL | 12.47 | 12.47 | 33.464 | 25.308 | 266.2 | 0.082 | 5.93 | 98.0 | 8.1 | 0.70 | 5.5 | 0.15 | 1.06 | 0.46 | 30 | |
| 40 | 12.27 | 12.26 | 33.498 | 25.373 | 260.3 | 0.109 | 5.90 | 97.1 | 9.4 | 0.76 | 6.5 | 0.18 | 0.99 | 0.49 | 40 | | |
| 50 | 12.16 | 12.15 | 33.506 | 25.400 | 258.0 | 0.135 | 5.75 | 94.4 | 9.9 | 0.82 | 7.3 | 0.24 | 0.62 | 0.46 | 50 | | |
| 59 | 11.99 | 11.98 | 33.509 | 25.435 | 254.9 | 0.158 | 5.53 | 90.5 | 10.2 | 0.88 | 8.1 | 0.33 | 0.23 | 0.25 | 59 | | |
| 69 | 11.77 | 11.76 | 33.532 | 25.494 | 249.5 | 0.183 | 5.17 | 84.2 | 11.7 | 0.98 | 9.9 | 0.33 | 0.16 | 0.21 | 70 | | |
| 75 | ISL | 11.45 | 11.44 | 33.573 | 25.585 | 240.9 | 0.198 | 4.78 | 77.3 | 13.6 | 1.10 | 12.1 | 0.27 | C 10 | 0.17 | 76 | |
| 77 | 11.31 | 11.30 | 33.592 | 25.626 | 237.1 | 0.202 | 4.63 | 74.7 | 14.4 | 1.15 | 13.0 | 0.24 | 0.08 | 0.15 | 78 | | |
| 93 | 9.67 | 9.66 | 33.854 | 26.114 | 190.8 | 0.237 | 3.06 | 47.7 | 26.9 | 1.77 | 23.8 | 0.02 | 0.01 | 0.09 | 94 | | |
| 100 | ISL | 9.51 | 9.50 | 33.929 | 26.199 | 182.9 | 0.250 | 2.82 | 43.8 | 29.0 | 1.86 | 24.5 | 0.02 | 0.02 | 0.08 | 101 | |
| 108 | 9.33 | 9.32 | 33.948 | 26.244 | 178.8 | 0.264 | 2.72 | 42.1 | 30.2 | 1.90 | 25.4 | 0.01 | 0.04 | 0.07 | 109 | | |
| 123 | 9.21 | 9.20 | 33.991 | 26.297 | 174.0 | 0.291 | 2.58 | 39.8 | 32.2 | 1.97 | 26.2 | 0.02 | 0.01 | 0.09 | 124 | | |
| 125 | ISL | 9.19 | 9.18 | 33.995 | 26.303 | 173.4 | 0.294 | 2.57 | 39.7 | 32.4 | 1.98 | 26.3 | 0.02 | 0.01 | 0.09 | 126 | |
| 148 | 8.94 | 8.92 | 34.028 | 26.369 | 167.6 | 0.333 | 2.47 | 37.9 | 34.4 | 2.03 | 27.2 | 0.01 | 0.01 | 0.06 | 149 | | |
| 150 | ISL | 8.92 | 8.90 | 34.031 | 26.375 | 167.1 | 0.337 | 2.46 | 37.7 | 34.6 | 2.04 | 27.3 | 0.01 | 0.01 | 0.06 | 151 | |
| 173 | 8.69 | 8.67 | 34.059 | 26.433 | 162.0 | 0.375 | 2.41 | 36.8 | 36.3 | 2.09 | 28.0 | 0.01 | 0.00 | 0.05 | 174 | | |
| 200 | ISL | 8.39 | 8.37 | 34.072 | 26.490 | 157.0 | 0.418 | 2.41 | 36.5 | 38.3 | 2.12 | 28.6 | 0.01 | 0.00 | 0.05 | 202 | |
| 203 | 8.35 | 8.33 | 34.073 | 26.497 | 156.4 | 0.422 | 2.41 | 36.5 | 38.6 | 2.12 | 28.7 | 0.01 | 0.00 | 0.05 | 205 | | |
| 233 | 7.80 | 7.78 | 34.073 | 26.579 | 148.9 | 0.468 | 2.28 | 34.1 | 43.1 | 2.21 | 30.1 | 0.00 | 0.00 | 0.00 | 235 | | |
| 250 | ISL | 7.53 | 7.51 | 34.076 | 26.620 | 145.1 | 0.493 | 2.15 | 31.9 | 46.4 | 2.28 | 31.2 | 0.00 | 0.00 | 0.00 | 252 | |
| 273 | 7.24 | 7.21 | 34.087 | 26.670 | 140.6 | 0.526 | 1.93 | 28.5 | 51.1 | 2.39 | 32.8 | 0.00 | 0.00 | 0.00 | 275 | | |
| 300 | ISL | 7.05 | 7.02 | 34.126 | 26.727 | 135.5 | 0.563 | 1.55 | 22.8 | 56.1 | 2.54 | 34.5 | 0.00 | 0.00 | 0.00 | 302 | |
| 329 | 6.89 | 6.86 | 34.169 | 26.784 | 130.5 | 0.602 | 1.15 | 16.8 | 60.9 | 2.68 | 36.0 | 0.00 | 0.00 | 0.00 | 332 | | |
| 388 | 6.39 | 6.36 | 34.195 | 26.871 | 122.8 | 0.676 | 0.78 | 11.3 | 68.7 | 2.84 | 38.1 | 0.00 | 0.00 | 0.00 | 391 | | |
| 400 | ISL | 6.35 | 6.31 | 34.215 | 26.892 | 120.9 | 0.691 | 0.69 | 10.0 | 70.1 | 2.87 | 38.4 | 0.00 | 0.00 | 0.00 | 403 | |
| 453 | 6.23 | 6.19 | 34.304 | 26.979 | 113.4 | 0.753 | 0.36 | 5.2 | 75.8 | 3.00 | 39.4 | 0.00 | 0.00 | 0.00 | 457 | | |
| 500 | ISL | 5.99 | 5.95 | 34.326 | 27.027 | 109.3 | 0.806 | 0.31 | 4.4 | 80.9 | 3.06 | 40.2 | 0.00 | 0.00 | 0.00 | 504 | |
| 519 | 5.89 | 5.84 | 34.336 | 27.048 | 107.5 | 0.826 | 0.29 | 4.2 | 82.9 | 3.08 | 40.5 | 0.00 | 0.00 | 0.00 | 519 | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|
| 33 14.6 N | 121 26.6 W | 29/01/88 | 1009 UTC | 3543 M | 200 | 04 KT | 300 | 10 1 | 1017.8 MB | 12.3 C | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | NO2 | CHL-A | PHAE0 | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 12.73 | 12.73 | 33.469 | 25.261 | 270.0 | 0.000 | 6.15 | 102.2 | 7.7 | 0.66 | 4.6 | 0.13 | 1.40 | 0.33 | 0 | |
| 1 | 12.73 | 12.73 | 33.469 | 25.261 | 270.0 | 0.003 | 6.15 | 102.2 | 7.7 | 0.66 | 4.6 | 0.13 | 1.40 | 0.33 | 1 | | |
| 10 | ISL | 12.65 | 12.65 | 33.478 | 25.284 | 268.0 | 0.027 | 6.16 | 102.2 | 8.0 | 0.68 | 4.8 | 0.12 | 1.29 | 0.36 | 10 | |
| 16 | 12.55 | 12.55 | 33.488 | 25.311 | 265.6 | 0.043 | 6.17 | 102.2 | 8.3 | 0.70 | 5.2 | 0.12 | 1.16 | 0.40 | 16 | | |
| 20 | ISL | 12.45 | 12.45 | 33.493 | 25.334 | 263.5 | 0.054 | 6.08 | 100.5 | 8.5 | 0.72 | 5.6 | 0.14 | 1.07 | 0.42 | 20 | |
| 30 | ISL | 12.21 | 12.21 | 33.506 | 25.390 | 258.4 | 0.080 | 5.82 | 95.7 | 9.1 | 0.79 | 6.9 | 0.20 | 0.81 | 0.46 | 30 | |
| 32 | 12.16 | 12.16 | 33.509 | 25.402 | 257.3 | 0.085 | 5.76 | 94.6 | 9.2 | 0.81 | 7.2 | 0.22 | 0.76 | 0.47 | 32 | | |
| 41 | 12.04 | 12.03 | 33.525 | 25.438 | 254.2 | 0.108 | 5.62 | 92.1 | 10.1 | 0.89 | 8.4 | 0.30 | 0.52 | 0.37 | 41 | | |
| 50 | ISL | 11.84 | 11.83 | 33.544 | 25.490 | 249.4 | 0.130 | 5.37 | 87.6 | 11.3 | 0.97 | 9.8 | 0.37 | 0.28 | 0.24 | 50 | |
| 51 | 11.82 | 11.81 | 33.546 | 25.495 | 248.9 | 0.133 | 5.34 | 87.1 | 11.4 | 0.98 | 10.0 | 0.37 | 0.26 | 0.23 | 51 | | |
| 62 | 11.63 | 11.62 | 33.565 | 25.546 | 244.4 | 0.160 | 5.21 | 84.6 | 12.1 | 1.04 | 11.0 | 0.36 | 0.22 | 0.22 | 62 | | |
| 71 | 11.29 | 11.28 | 33.613 | 25.645 | 235.1 | 0.182 | 4.75 | 76.6 | 14.5 | 1.18 | 13.4 | 0.26 | 0.14 | 0.17 | 72 | | |
| 75 | ISL | 10.73 | 10.72 | 33.697 | 25.811 | 219.4 | 0.191 | 4.06 | 64.7 | 18.6 | 1.40 | 17.2 | 0.16 | 0.09 | 0.14 | 76 | |
| 80 | 10.00 | 9.99 | 33.811 | 26.026 | 199.0 | 0.201 | 3.18 | 49.9 | 23.9 | 1.68 | 22.0 | 0.03 | 0.03 | 0.10 | 81 | | |
| 95 | 9.65 | 9.64 | 33.885 A | 26.142 | 188.2 | 0.230 | 2.92 | 45.5 | 27.1 | 1.81 | 23.8 | 0.02 | 0.02 | 0.13 | 96 | | |
| 100 | ISL | 9.54 | 9.53 | 33.904 | 26.175 | 185.2 | 0.240 | 2.87 | 44.6 | 27.9 | 1.84 | 24.3 | 0.02 | 0.02 | 0.12 | 101 | |
| 111 | 9.32 | 9.31 | 33.938 | 26.238 | 179.4 | 0.260 | 2.81 | 43.5 | 29.4 | 1.89 | 25.1 | 0.02 | 0.01 | 0.09 | 112 | | |
| 125 | 9.13 | 9.12 | 33.969 | 26.292 | 174.4 | 0.284 | 2.77 | 42.7 | 30.8 | 1.93 | 25.7 | 0.02 | 0.01 | 0.07 | 126 | | |
| 150 | 8.91 | 8.89 | 34.038 | 26.382 | 166.4 | 0.327 | 2.46 | 37.7 | 34.2 | 2.05 | 27.3 | 0.01 | 0.01 | 0.06 | 151 | | |
| 174 | 8.68 | 8.66 | 34.095 | 26.463 | 159.2 | 0.366 | 2.17 | 33.1 | 37.6 | 2.18 | 28.7 | 0.01 | 0.00 | 0.05 | 175 | | |
| 200 | ISL | 8.24 | 8.22 | 34.095 | 26.531 | 153.1 | 0.407 | 2.25 | 34.0 | 40.2 | 2.20 | 29.5 | 0.00 | 0.00 | 0.06 | 202 | |
| 204 | 8.18 | 8.16 | 34.094 | 26.539 | 152.3 | 0.413 | 2.27 | 34.2 | 40.6 | 2.20 | 29.6 | 0.00 | 0.00 | 0.06 | 206 | | |
| 233 | 8.01 | 7.99 | 34.120 | 26.585 | 148.4 | 0.456 | 1.97 | 29.6 | 43.9 | 2.31 | 30.8 | 0.00 | 0.00 | 0.00 | 235 | | |
| 250 | ISL | 7.85 | 7.83 | 34.142 | 26.626 | 144.7 | 0.481 | 1.73 | 25.9 | 46.9 | 2.40 | 31.9 | 0.00 | 0.00 | 0.00 | 252 | |
| 272 | 7.61 | 7.58 | 34.171 | 26.684 | 139.5 | 0.513 | 1.42 | 21.1 | 51.0 | 2.52 | 33.3 | 0.00 | 0.00 | 0.00 | 274 | | |
| 300 | ISL | 7.36 | 7.33 | 34.194 | 26.738 | 134.7 | 0.551 | 1.16 | | | | | | | | | |

PV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 80

| LATITUDE 32 54.6 N | LONGITUDE 122 7.7 W | DAY/MO/YR 29/01/88 | MESSENGER | | BOTTOM 4190 M | WIND 150 07 KT | SPEED WAVES | WEATHER | BAROMETER | | DRY 1016.5 MB | WET 13.8 C | CLOUD AMT 13.5 C | TYPE | | | | | | | | |
|-----------------------|------------------------|-----------------------|-----------|--------|------------------|-------------------|----------------|---------|-------------------|--------------------|------------------|---------------|---------------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|
| | | | 0453 | UTC | | | | | POT TEMP DEG C | SALINITY PSS 78 | 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 | PHAE0 UG/L | PRESS D.BAR |
| 1 0 | 12.91 | 12.91 | 33.189 | 25.009 | 293.9 | 0.000 | 6.35 | 105.8 | 4.5 | 0.51 | 1.8 | 0.10 | 1.68 | 0.47 | 0 | | | | | | | |
| 1 10 ISL | 12.56 | 12.56 | 33.270 | 25.140 | 281.7 | 0.029 | 6.16 | 101.9 | 5.7 | 0.60 | 3.3 | 0.18 | 1.52 | 0.52 | 10 | | | | | | | |
| 1 15 | 12.39 | 12.39 | 33.311 | 25.204 | 275.7 | 0.043 | 6.06 | 99.9 | 6.3 | 0.64 | 4.1 | 0.22 | 1.44 | 0.54 | 15 | | | | | | | |
| 1 20 ISL | 12.38 | 12.38 | 33.351 | 25.237 | 272.7 | 0.056 | 6.02 | 99.2 | 6.6 | 0.66 | 4.5 | 0.23 | 1.32 | 0.54 | 20 | | | | | | | |
| 1 30 ISL | 12.35 | 12.35 | 33.401 | 25.282 | 268.7 | 0.083 | 5.98 | 98.5 | 7.1 | 0.70 | 5.1 | 0.25 | 1.06 | 0.54 | 30 | | | | | | | |
| 1 36 | 12.34 | 12.34 | 33.413 | 25.294 | 267.8 | 0.100 | 5.96 | 98.2 | 7.2 | 0.71 | 5.3 | 0.26 | 0.89 | 0.54 | 36 | | | | | | | |
| 1 50 ISL | 12.27 | 12.26 | 33.428 | 25.319 | 265.7 | 0.137 | 5.84 | 96.1 | 7.6 | 0.75 | 5.9 | 0.37 | 0.49 | 0.36 | 50 | | | | | | | |
| 1 54 | 12.25 | 12.24 | 33.437 | 25.330 | 264.8 | 0.148 | 5.80 | 95.4 | 7.8 | 0.76 | 6.1 | 0.40 | 0.39 | 0.31 | 54 | | | | | | | |
| 1 70 | 11.83 | 11.82 | 33.483 | 25.445 | 254.2 | 0.189 | 5.56 | 90.6 | 9.8 | 0.88 | 8.2 | 0.35 | 0.27 | 0.36 | 71 | | | | | | | |
| 1 75 ISL | 11.40 | 11.39 | 33.465 | 25.510 | 248.0 | 0.202 | 5.03 | 81.2 | 11.8 | 1.04 | 11.3 | 0.22 | 0.16 | 0.23 | 76 | | | | | | | |
| 1 80 | 10.92 | 10.91 | 33.466 | 25.598 | 239.8 | 0.214 | 4.48 | 71.6 | 14.2 | 1.22 | 14.6 | 0.09 | 0.06 | 0.11 | 81 | | | | | | | |
| 1 89 | 10.19 | 10.18 | 33.605 | 25.833 | 217.5 | 0.234 | 3.92 | 61.7 | 18.4 | 1.44 | 18.5 | 0.03 | 0.04 | 0.08 | 90 | | | | | | | |
| 1 100 | 9.88 | 9.87 | 33.694 | 25.955 | 206.1 | 0.258 | 3.50 | 54.7 | 21.8 | 1.61 | 21.0 | 0.02 | 0.02 | 0.08 | 101 | | | | | | | |
| 1 II0 | 9.37 | 9.36 | 33.749 | 26.082 | 194.2 | 0.278 | 3.57 | 55.2 | 23.9 | 1.64 | 22.2 | 0.02 | 0.01 | 0.05 | 111 | | | | | | | |
| 1 125 ISL | 9.03 | 9.02 | 33.816 | 26.189 | 184.3 | 0.306 | 3.41 | 52.4 | 26.4 | 1.72 | 23.4 | 0.02 | 0.01 | 0.05 | 126 | | | | | | | |
| 1 126 | 9.02 | 9.01 | 33.820 | 26.193 | 183.8 | 0.308 | 3.40 | 52.2 | 26.5 | 1.73 | 23.5 | 0.02 | 0.01 | 0.05 | 127 | | | | | | | |
| 1 139 | 8.85 | 8.84 | 33.868 | 26.258 | 177.9 | 0.331 | 3.37 | 51.6 | 28.4 | 1.78 | 24.4 | 0.01 | 0.01 | 0.04 | 140 | | | | | | | |
| 1 150 ISL | 8.67 | 8.65 | 33.894 | 26.307 | 173.5 | 0.351 | 3.35 | 51.0 | 29.5 | 1.79 | 24.8 | 0.01 | 0.01 | 0.03 | 151 | | | | | | | |
| 1 160 | 8.51 | 8.49 | 33.917 | 26.349 | 169.6 | 0.368 | 3.34 | 50.7 | 30.6 | 1.81 | 25.1 | 0.01 | 0.01 | 0.03 | 161 | | | | | | | |
| 1 178 | 8.34 | 8.32 | 33.988 | 26.431 | 162.1 | 0.398 | 3.09 | 46.8 | 34.0 | 1.91 | 26.5 | 0.01 | 0.01 | 0.03 | 179 | | | | | | | |
| 1 200 ISL | 8.08 | 8.06 | 34.036 | 26.508 | 155.1 | 0.433 | 2.64 | 39.7 | 38.6 | 2.08 | 28.7 | 0.01 | 0.01 | 0.03 | 202 | | | | | | | |
| 1 205 | 8.02 | 8.00 | 34.042 | 26.522 | 153.9 | 0.440 | 2.55 | 38.3 | 39.6 | 2.11 | 29.1 | 0.01 | 0.01 | 0.03 | 207 | | | | | | | |
| 1 233 | 7.69 | 7.67 | 34.055 | 26.581 | 148.6 | 0.483 | 2.43 | 36.2 | 43.3 | 2.19 | 30.2 | 0.00 | | | 235 | | | | | | | |
| 1 250 ISL | 7.50 | 7.48 | 34.075 | 26.624 | 144.8 | 0.508 | 2.17 | 32.2 | 46.7 | 2.30 | 31.4 | 0.00 | | | 252 | | | | | | | |
| 1 272 | 7.26 | 7.23 | 34.100 | 26.677 | 139.9 | 0.539 | 1.79 | 26.4 | 51.3 | 2.44 | 33.1 | 0.00 | | | 274 | | | | | | | |
| 1 300 ISL | 6.89 | 6.86 | 34.100 | 26.729 | 135.3 | 0.578 | 1.57 | 23.0 | 56.3 | 2.55 | 34.7 | 0.00 | | | 302 | | | | | | | |
| 1 326 | 6.59 | 6.56 | 34.100 | 26.769 | 131.6 | 0.612 | 1.43 | 20.8 | 60.4 | 2.62 | 36.0 | 0.00 | | | 329 | | | | | | | |
| 1 384 | 6.35 | 6.32 | 34.167 | 26.854 | 124.3 | 0.686 | 0.89 | 12.9 | 67.9 | 2.82 | 38.0 | 0.00 | | | 387 | | | | | | | |
| 1 400 ISL | 6.28 | 6.24 | 34.187 | 26.879 | 122.1 | 0.706 | 0.77 | 11.1 | 70.1 | 2.87 | 38.5 | 0.00 | | | 403 | | | | | | | |
| 1 447 | 6.03 | 5.99 | 34.241 | 26.954 | 115.5 | 0.762 | 0.49 | 7.0 | 76.5 | 2.99 | 39.7 | 0.00 | | | 451 | | | | | | | |
| 1 500 ISL | 5.68 | 5.64 | 34.278 | 27.027 | 108.9 | 0.821 | 0.35 | 5.0 | 83.8 | 3.08 | 40.8 | 0.00 | | | 504 | | | | | | | |
| 1 516 | 5.58 | 5.54 | 34.290 | 27.049 | 106.9 | 0.839 | 0.31 | 4.4 | 86.0 | 3.11 | 41.1 | 0.00 | | | 520 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 90

| LATITUDE 32 34.7 N | LONGITUDE 122 48.8 W | DAY/MO/YR 28/01/88 | MESSENGER | | BOTTOM 3733 M | WIND 180 08 KT | SPEED 210 03 07 | WAVES 2 | WEATHER | | BAROMETER | DRY 1016.0 MB | WET 14.2 C | CLOUD AMT 14.0 C | TYPE | 8/8 SC | | | | | | |
|-----------------------|-------------------------|-----------------------|-------------------|--------------------|------------------|-------------------|--------------------|------------|----------------|------|-----------|------------------|---------------|---------------------|-------------|-------------|-------------|---------------|---------------|----------------|--|--|
| | | | POT TEMP DEG C | SALINITY PSS 78 | | | | | 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 | PHAE0 UG/L | PRESS D.BAR | | |
| 1 0 | 13.90 | 13.90 | 33.163 | 24.789 | 314.8 | 0.000 | 6.07 | 103.2 | 2.7 | 0.38 | 0.4 | 0.02 | 0.49 | 0.18 | 0 | | | | | | | |
| 1 10 ISL | 13.78 | 13.78 | 33.159 | 24.811 | 313.0 | 0.031 | 6.08 | 103.1 | 2.7 | 0.39 | 0.5 | 0.02 | 0.52 | 0.22 | 10 | | | | | | | |
| 1 14 | 13.73 | 13.73 | 33.157 | 24.820 | 312.3 | 0.044 | 6.08 | 103.0 | 2.7 | 0.39 | 0.5 | 0.02 | 0.53 | 0.23 | 14 | | | | | | | |
| 1 20 ISL | 13.67 | 13.67 | 33.155 | 24.831 | 311.4 | 0.063 | 6.05 | 102.3 | 2.7 | 0.40 | 0.6 | 0.03 | 0.53 | 0.25 | 20 | | | | | | | |
| 1 30 ISL | 13.57 | 13.57 | 33.151 | 24.848 | 310.0 | 0.094 | 5.99 | 101.1 | 2.8 | 0.42 | 0.8 | 0.05 | 0.54 | 0.28 | 30 | | | | | | | |
| 1 35 | 13.53 | 13.53 | 33.149 | 24.855 | 309.6 | 0.109 | 5.97 | 100.7 | 2.8 | 0.43 | 0.9 | 0.06 | 0.54 | 0.29 | 35 | | | | | | | |
| 1 50 ISL | 13.40 | 13.39 | 33.140 | 24.875 | 308.1 | 0.155 | 6.03 | 101.4 | 3.0 | 0.45 | 1.0 | 0.07 | 0.53 | 0.30 | 50 | | | | | | | |
| 1 55 | 13.36 | 13.35 | 33.138 | 24.881 | 307.6 | 0.171 | 6.04 | 101.5 | 3.1 | 0.45 | 1.0 | 0.07 | 0.53 | 0.30 | 55 | | | | | | | |
| 1 69 | 13.21 | 13.20 | 33.137 | 24.911 | 305.1 | 0.214 | 5.95 | 99.7 | 3.3 | 0.47 | 1.5 | 0.10 | 0.35 | 0.21 | 70 | | | | | | | |
| 1 75 ISL | 13.18 | 13.17 | 33.142 | 24.921 | 304.3 | 0.232 | 5.96 | 99.8 | 3.4 | 0.48 | 1.6 | 0.11 | 0.33 | 0.22 | 76 | | | | | | | |
| 1 78 | 13.15 | 13.14 | 33.145 | 24.983 | 298.7 | 0.277 | 5.93 | 98.6 | 4.2 | 0.53 | 2.3 | 0.20 | 0.26 | 0.19 | 91 | | | | | | | |
| 1 90 | 12.87 | 12.86 | 33.157 | 24.998 | 297.6 | 0.304 | 5.94 | 98.8 | 4.3 | 0.55 | 2.6 | 0.23 | 0.22 | 0.15 | 100 | | | | | | | |
| 1 99 | 12.85 | 12.84 | 33.157 | 24.998 | 297.6 | 0.307 | 5.94 | 98.8 | 4.3 | 0.55 | 2.6 | 0.23 | 0.21 | 0.15 | 101 | | | | | | | |
| 1 109 | 12.80 | 12.79 | 33.160 | 25.010 | 296.6 | 0.334 | 5.89 | 97.8 | 4.6 | 0.57 | 2.8 | 0.26 | 0.16 | 0.12 | I10 | | | | | | | |
| 1 125 | 12.63 | 12.61 | 33.192 | 25.069 | 291.5 | 0.381 | 5.69 | 94.2 | 5.3 | 0.62 | 3.9 | 0.20 | 0.14 | 0.10 | 126 | | | | | | | |
| 1 140 | 11.01 | 10.99 | 33.406 | 25.536 | 247.0 | 0.421 | 4.58 | 73.3 | 12.6 | 1.12 | 12.9 | 0.03 | 0.04 | 0.07 | 141 | | | | | | | |
| 1 150 ISL | 10.37 | 10.35 | 33.524 | 25.740 | 227.7 | 0.445 | 4.18 | 66.0 | 16.3 | 1.32 | 16.5 | 0.02 | 0.03 | 0.06 | 151 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 32 14.7 N | 123 29.5 W | 28/01/88 | 1712 UTC | 4305 M | 200 | 03 KT | | 2 | 1018.9 MB | 12.8 C | 12.8 C | 8/8 | SC | | | |
| 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.91 | 13.91 | 33.162 | 24.786 | 315.1 | 0.000 | 6.11 | 103.9 | 2.4 | 0.39 | 0.3 | 0.01 | 0.55 | 0.09 | 0 |
| 1 | 1 | 13.91 | 13.91 | 33.162 | 24.786 | 315.1 | 0.003 | 6.11 | 103.9 | 2.4 | 0.39 | 0.3 | 0.01 | 0.55 | 0.09 | 1 |
| 1 | 10 ISL | 13.86 | 13.86 | 33.160 | 24.795 | 314.5 | 0.031 | 6.11 | 103.8 | 2.4 | 0.40 | 0.3 | 0.02 | 0.56 | 0.10 | 10 |
| 1 | 15 | 13.81 | 13.81 | 33.158 | 24.804 | 313.8 | 0.047 | 6.10 | 103.5 | 2.4 | 0.40 | 0.3 | 0.02 | 0.57 | 0.10 | 15 |
| 1 | 20 ISL | 13.77 | 13.77 | 33.158 | 24.813 | 313.2 | 0.063 | 6.10 | 103.4 | 2.4 | 0.40 | 0.3 | 0.02 | 0.57 | 0.17 | 20 |
| 1 | 30 ISL | 13.71 | 13.71 | 33.158 | 24.825 | 312.2 | 0.094 | 6.08 | 102.9 | 2.5 | 0.40 | 0.4 | 0.02 | 0.56 | 0.30 | 30 |
| 1 | 36 | 13.67 | 13.66 | 33.158 | 24.833 | 311.6 | 0.113 | 6.07 | 102.7 | 2.5 | 0.40 | 0.4 | 0.02 | 0.56 | 0.37 | 36 |
| 1 | 50 ISL | 13.61 | 13.60 | 33.158 | 24.846 | 310.8 | 0.156 | 6.01 | 101.5 | 2.6 | 0.42 | 0.9 | 0.05 | 0.46 | 0.30 | 50 |
| 1 | 55 | 13.59 | 13.58 | 33.158 | 24.850 | 310.5 | 0.172 | 5.98 | 101.0 | 2.6 | 0.43 | 1.0 | 0.06 | 0.41 | 0.25 | 55 |
| 1 | 70 | 13.55 | 13.54 | 33.158 | 24.859 | 310.1 | 0.219 | 5.92 | 99.9 | 2.6 | 0.44 | 1.0 | 0.10 | 0.26 | 0.17 | 71 |
| 1 | 75 ISL | 13.52 | 13.51 | 33.158 | 24.865 | 309.7 | 0.234 | 5.90 | 99.5 | 2.7 | 0.45 | 1.1 | 0.11 | 0.22 | 0.15 | 76 |
| 1 | 78 | 13.50 | 13.49 | 33.159 | 24.870 | 309.3 | 0.243 | 5.89 | 99.3 | 2.8 | 0.46 | 1.2 | 0.12 | 0.20 | 0.14 | 79 |
| 1 | 89 | 13.43 | 13.42 | 33.165 | 24.889 | 307.8 | 0.277 | 5.88 | 99.0 | 3.0 | 0.47 | 1.5 | 0.14 | 0.21 | 0.15 | 90 |
| 1 | 100 | 13.22 | 13.21 | 33.177 | 24.941 | 303.1 | 0.311 | 5.84 | 97.9 | 3.6 | 0.52 | 2.2 | 0.19 | 0.18 | 0.15 | 101 |
| 1 | 108 | 13.05 | 13.04 | 33.189 | 24.984 | 299.2 | 0.335 | 5.77 | 96.3 | 4.0 | 0.56 | 2.8 | 0.27 | 0.14 | 0.13 | 109 |
| 1 | 122 | 12.86 | 12.84 | 33.204 | 25.033 | 294.8 | 0.377 | 5.75 | 95.6 | 4.5 | 0.59 | 3.4 | 0.31 | 0.13 | 0.12 | 123 |
| 1 | 125 ISL | 12.80 | 12.78 | 33.234 | 25.068 | 291.6 | 0.385 | 5.71 | 94.9 | 4.9 | 0.61 | 3.8 | 0.31 | 0.12 | 0.12 | 126 |
| 1 | 137 | 12.35 | 12.33 | 33.370 | 25.261 | 273.4 | 0.419 | 5.38 | 88.6 | 7.4 | 0.78 | 6.8 | 0.25 | 0.08 | 0.13 | 138 |
| 1 | 150 ISL | 11.20 | 11.18 | 33.464 | 25.547 | 246.2 | 0.453 | 4.63 | 74.4 | 12.4 | 1.12 | 12.8 | 0.10 | 0.05 | 0.09 | 151 |
| 1 | 158 | 10.47 | 10.45 | 33.518 | 25.718 | 230.0 | 0.472 | 4.17 | 66.0 | 15.6 | 1.32 | 16.5 | 0.02 | 0.03 | 0.06 | 159 |
| 1 | 177 | 9.76 | 9.74 | 33.642 | 25.935 | 209.6 | 0.514 | 3.79 | 59.1 | 20.3 | 1.52 | 20.1 | 0.01 | 0.02 | 0.05 | 178 |
| 1 | 200 ISL | 8.98 | 8.96 | 33.849 | 26.224 | 182.4 | 0.559 | 3.38 | 51.8 | 27.2 | 1.75 | 24.0 | 0.00 | 0.00 | 0.02 | 202 |
| 1 | 203 | 8.90 | 8.88 | 33.875 | 26.257 | 179.3 | 0.564 | 3.32 | 50.8 | 28.1 | 1.78 | 24.4 | 0.00 | 0.00 | 0.02 | 205 |
| 1 | 231 | 8.53 | 8.51 | 34.004 | 26.416 | 164.6 | 0.612 | 2.69 | 40.9 | 35.0 | 2.01 | 27.7 | 0.00 | 0.00 | 0.00 | 233 |
| 1 | 250 ISL | 8.22 | 8.19 | 34.037 | 26.489 | 157.9 | 0.643 | 2.55 | 38.5 | 38.3 | 2.09 | 28.9 | 0.00 | 0.00 | 0.00 | 252 |
| 1 | 270 | 7.90 | 7.87 | 34.049 | 26.546 | 152.7 | 0.674 | 2.48 | 37.2 | 41.3 | 2.15 | 29.7 | 0.00 | 0.00 | 0.00 | 272 |
| 1 | 300 ISL | 7.55 | 7.52 | 34.065 | 26.609 | 147.0 | 0.719 | 2.23 | 33.1 | 46.0 | 2.27 | 31.3 | 0.00 | 0.00 | 0.00 | 302 |
| 1 | 327 | 7.26 | 7.23 | 34.074 | 26.658 | 142.7 | 0.758 | 1.96 | 28.9 | 50.6 | 2.38 | 32.8 | 0.00 | 0.00 | 0.00 | 330 |
| 1 | 385 | 6.51 | 6.48 | 34.105 | 26.785 | 131.0 | 0.838 | 1.28 | 18.6 | 62.7 | 2.67 | 36.8 | 0.00 | 0.00 | 0.00 | 388 |
| 1 | 400 ISL | 6.38 | 6.34 | 34.120 | 26.813 | 128.4 | 0.857 | 1.13 | 16.3 | 65.2 | 2.73 | 37.5 | 0.00 | 0.00 | 0.00 | 403 |
| 1 | 449 | 6.07 | 6.03 | 34.170 | 26.893 | 121.3 | 0.918 | 0.74 | 10.6 | 72.2 | 2.90 | 39.2 | 0.00 | 0.00 | 0.00 | 453 |
| 1 | 500 ISL | 5.87 | 5.83 | 34.210 | 26.950 | 116.4 | 0.979 | 0.54 | 7.7 | 77.4 | 2.98 | 40.1 | 0.00 | 0.00 | 0.00 | 504 |
| 1 | 519 | 5.80 | 5.76 | 34.225 | 26.971 | 114.6 | 1.001 | 0.47 | 6.7 | 79.3 | 3.01 | 40.4 | 0.00 | 0.00 | 0.00 | 523 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 31 54.8 N | 124 10.4 W | 28/01/88 | 1155 UTC | 4238 M | 250 | 02 KT | | 2 | 1012.5 MB | 13.7 C | 13.7 C | 8/8 | SC | | | |
| 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L* | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.96 | 13.96 | 33.160 | 24.774 | 316.2 | 0.000 | 6.11 | 104.0 | 2.2 | 0.38 | 0.2 | 0.00 | 0.42 | 0.15 | 0 |
| 1 | 10 ISL | 13.89 | 13.89 | 33.160 | 24.789 | 315.1 | 0.032 | 6.13 | 104.2 | 2.2 | 0.38 | 0.2 | 0.00 | 0.41 | 0.18 | 10 |
| 1 | 15 | 13.85 | 13.85 | 33.160 | 24.797 | 314.5 | 0.047 | 6.14 | 104.2 | 2.2 | 0.38 | 0.2 | 0.00 | 0.41 | 0.20 | 15 |
| 1 | 20 ISL | 13.81 | 13.81 | 33.159 | 24.805 | 313.9 | 0.063 | 6.12 | 103.8 | 2.2 | 0.38 | 0.2 | 0.00 | 0.43 | 0.21 | 20 |
| 1 | 30 ISL | 13.76 | 13.76 | 33.157 | 24.814 | 313.3 | 0.094 | 6.07 | 102.9 | 2.2 | 0.39 | 0.3 | 0.01 | 0.45 | 0.22 | 30 |
| 1 | 34 | 13.74 | 13.74 | 33.156 | 24.818 | 313.1 | 0.107 | 6.04 | 102.3 | 2.2 | 0.39 | 0.4 | 0.02 | 0.45 | 0.22 | 34 |
| 1 | 50 ISL | 13.74 | 13.73 | 33.162 | 24.823 | 313.0 | 0.157 | 5.93 | 100.4 | 2.3 | 0.42 | 0.7 | 0.06 | 0.35 | 0.21 | 50 |
| 1 | 55 | 13.74 | 13.73 | 33.163 | 24.823 | 313.1 | 0.173 | 5.91 | 100.1 | 2.3 | 0.43 | 0.8 | 0.07 | 0.31 | 0.21 | 55 |
| 1 | 70 | 13.74 | 13.73 | 33.175 | 24.833 | 312.6 | 0.220 | 5.92 | 100.3 | 2.3 | 0.42 | 0.8 | 0.07 | 0.28 | 0.22 | 71 |
| 1 | 75 ISL | 13.74 | 13.73 | 33.175 | 24.833 | 312.7 | 0.235 | 5.92 | 100.3 | 2.3 | 0.42 | 0.9 | 0.07 | 0.28 | 0.21 | 76 |
| 1 | 80 | 13.74 | 13.73 | 33.176 | 24.834 | 312.8 | 0.251 | 5.92 | 100.3 | 2.4 | 0.43 | 0.9 | 0.08 | 0.27 | 0.19 | 81 |
| 1 | 91 | 13.62 | 13.61 | 33.176 | 24.859 | 310.7 | 0.285 | 5.83 | 98.5 | 2.7 | 0.46 | 1.4 | 0.11 | 0.16 | 0.14 | 92 |
| 1 | 100 | 12.35 | 12.34 | 33.226 | 25.148 | 283.2 | 0.312 | 5.33 | 87.7 | 5.8 | 0.73 | 6.0 | 0.05 | 0.07 | 0.11 | 101 |
| 1 | 108 | 11.65 | 11.64 | 33.319 | 25.352 | 263.9 | 0.334 | 5.05 | 81.9 | 8.4 | 0.91 | 9.3 | 0.02 | 0.06 | 0.09 | 109 |
| 1 | 125 | 10.50 | 10.49 | 33.444 | 25.655 | 235.3 | 0.376 | 4.39 | 69.5 | 13.9 | 1.20 | 15.2 | 0.02 | 0.03 | 0.07 | 126 |
| 1 | 139 | 9.94 | 9.92 | 33.581 | 25.857 | 216.2 | 0.408 | 4.02 | 62.9 | 18.1 | 1.43 | 18.5 | 0.01 | 0.02 | 0.04 | 140 |
| 1 | 160 ISL | 9.71 | 9.71 | 33.622 | 25.924 | 210.0 | 0.431 | 3.90 | 60.8 | 19.5 | 1.50 | 19.7 | 0.01 | 0.01 | 0.04 | 151 |
| 1 | 180 | 9.13 | 9.11 | 33.838 | 26.191 | 185.2 | 0.491 | 3.27 | 50.3 | 26.9 | 1.76 | 24.0 | 0.01 | 0.01 | 0.02 | 181 |
| 1 | 200 ISL | 8.85 | 8.83 | 33.930 | 26.307 | 174.4 | 0.527 | 3.02 | 46.2 | 30.5 | 1.87 | 25.7 | 0.01 | 0.01 | 0.02 | 202 |
| 1 | 205 | 8.78 | 8.76 | 33.945 | 26.330 | 172.3 | 0.536 | 2.97 | 45.4 | 31.3 | 1.89 | 26.0 | 0.01 | 0.01 | 0.02 | 207 |
| 1 | 234 | 8.11 | 8.09 | 34.046 | 26.512 | 155.4 | 0.583 | 2.57 | 38.7 | 39.9 | 2.09 | 28.8 | 0.00 | 0.00 | 0.00 | 236 |
| 1 | 250 ISL | 7.87 | 7.85 | 34.062 | 26.560 | 151.0 | 0.608 | 2.46 | 36.8 | 42.5 | 2.15 | 29.7 | 0.00 | 0.00 | 0.00 | 252 |
| 1 | 275 | 7.61 | 7.58 | 34.066 | 26.601 | 147.4 | 0.645 | 2.32 | 34.5 | 45.6 | 2.23 | 30.7 | 0.00 | 0.00 | 0.00 | 277 |
| 1 | 300 ISL | 7.41 | 7.38 | 34.087 | 26.647 | 143.4 | 0.681 | 2.02 | 29.9 | 49.4 | 2.34 | 32.1 | 0.00 | 0.00 | 0.00 | 302 |
| 1 | 328 | 7.19 | 7.16 | 34.114 | 26.699 | 138.7 | 0.721 | 1.64 | 24.2 | 54.2 | 2.48 | 33.7 | 0.00 | 0.00 | 0.00 | 331 |
| 1 | 387 | 6.55 | 6.51 | 34.165 | 26.827 | 127.1 | 0.79 | | | | | | | | | |

PV DAVIL STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 34

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|-------|-------|
| 33 51.A N | 118 33.6 W | 26/01/88 | 0307 UTC | 77 M | 010 | 12 KT | | | 1020.2 MB | 17.0 C | 13.A C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | POA | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | PSS 78 | 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 | 13.78 | 13.78 | 33.380 | 2A.981 | 296.5 | 0.000 | 6.21 | 105.A | A.0 | 0.42 | 0.7 | 0.06 | 1.2A | 0.31 | 0 | |
| 1 | 10 | 13.42 | 13.42 | 33.369 | 25.047 | 290.6 | 0.029 | 6.21 | 104.6 | 4.1 | 0.42 | 0.5 | 0.05 | 7.75 | 0.72 | 10 | |
| 1 | 20 | 13.31 | 13.31 | 33.375 | 25.074 | 288.3 | 0.058 | 5.90 | 99.2 | 4.5 | 0.51 | 1.9 | 0.16 | 1.54 | 0.38 | 20 | |
| 1 | 30 | 13.10 | 13.10 | 33.378 | 25.118 | 284.3 | 0.087 | 5.55 | 92.9 | 5.8 | 0.65 | 3.9 | 0.27 | 0.49 | 0.26 | 30 | |
| 1 | 40 | 12.67 | 12.66 | 33.432 | 25.245 | 272.5 | 0.115 | 5.06 | 84.0 | 8.2 | 0.83 | 7.0 | 0.30 | 0.26 | 0.19 | 40 | |
| 1 | 50 | 11.54 | 11.53 | 33.553 | 25.553 | 243.4 | 0.141 | 4.19 | 67.9 | 14.6 | 1.28 | 13.6 | 0.17 | 0.14 | 0.16 | 50 | |
| 1 | 60 | 11.21 | 11.20 | 33.602 | 25.651 | 234.3 | 0.164 | 3.96 | 63.7 | 16.1 | 1.36 | 15.3 | 0.14 | 0.12 | 0.17 | 60 | |
| 1 | 71 | 11.11 | 11.10 | 33.623 | 25.686 | 231.3 | 0.190 | 3.89 | 62.5 | 16.9 | 1.38 | 15.8 | 0.13 | 0.12 | 0.18 | 72 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 35

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|-------|-------|
| 33 49.4 N | 118 37.7 W | 26/01/88 | 0409 UTC | 662 M | 010 | 16 KT | | | 1020.9 MB | 17.0 C | 13.2 C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | POA | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | PSS 78 | 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 | 13.99 | 13.99 | 33.382 | 24.940 | 300.5 | 0.000 | 6.48 | 110.5 | 3.7 | 0.35 | 0.2 | 0.00 | 0.50 | 0.15 | 0 | |
| 1 | 9 | 13.97 | 13.97 | 33.390 | 24.950 | 299.7 | 0.027 | 6.23 | 106.2 | 3.7 | 0.34 | 0.2 | 0.00 | 0.39 | 0.15 | 9 | |
| 1 | 10 ISL | 13.95 | 13.95 | 33.389 | 24.954 | 299.5 | 0.030 | 6.25 | 106.5 | 3.7 | 0.34 | 0.2 | 0.00 | 0.41 | 0.16 | 10 | |
| 1 | 20 | 13.74 | 13.74 | 33.381 | 24.991 | 296.2 | 0.060 | 6.43 | 109.1 | 3.7 | 0.35 | 0.2 | 0.00 | 0.63 | 0.29 | 20 | |
| 1 | 30 | 13.60 | 13.60 | 33.375 | 25.015 | 294.1 | 0.089 | 6.02 | 101.8 | 3.9 | 0.40 | 0.3 | 0.02 | 3.54 | 0.39 | 30 | |
| 1 | 38 | 13.22 | 13.21 | 33.418 | 25.125 | 283.9 | 0.112 | 5.31 | 89.1 | 6.1 | 0.65 | 4.7 | 0.21 | 0.63 | 0.28 | 38 | |
| 1 | 48 | 12.27 | 12.26 | 33.524 | 25.393 | 258.6 | 0.140 | 4.52 | 74.4 | 10.7 | 1.02 | 10.6 | 0.22 | 0.15 | 0.16 | 48 | |
| 50 ISL | 12.16 | 12.15 | 33.540 | 25.427 | 255.5 | 0.145 | 4.43 | 72.8 | 11.2 | 1.06 | 11.3 | 0.20 | 0.14 | 0.15 | 50 | | |
| 1 | 58 | 11.80 | 11.79 | 33.593 | 25.536 | 245.2 | 0.165 | 4.19 | 68.3 | 13.0 | 1.16 | 13.2 | 0.09 | 0.10 | 0.13 | 58 | |
| 1 | 70 | 11.26 | 11.25 | 33.656 | 25.684 | 231.4 | 0.193 | 3.90 | 62.9 | 16.0 | 1.32 | 15.8 | 0.06 | 0.06 | 0.09 | 71 | |
| 75 ISL | 11.07 | 11.06 | 33.678 | 25.736 | 226.6 | 0.205 | 3.81 | 61.2 | 17.0 | 1.37 | 16.7 | 0.05 | 0.05 | 0.08 | 76 | | |
| 1 | 85 | 10.74 | 10.73 | 33.719 | 25.826 | 218.2 | 0.227 | 3.65 | 58.2 | 18.8 | 1.45 | 18.3 | 0.02 | 0.04 | 0.08 | 86 | |
| 1 | 100 | 10.40 | 10.39 | 33.774 | 25.929 | 208.7 | 0.259 | 3.46 | 54.8 | 21.0 | 1.54 | 19.9 | 0.01 | 0.03 | 0.06 | 101 | |
| 1 | 120 | 9.92 | 9.91 | 33.862 | 26.079 | 194.7 | 0.299 | 3.16 | 49.5 | 24.9 | 1.71 | 22.5 | 0.01 | 0.01 | 0.05 | 121 | |
| 125 ISL | 9.83 | 9.82 | 33.883 | 26.111 | 191.8 | 0.309 | 3.09 | 48.3 | 25.7 | 1.74 | 23.0 | 0.01 | 0.01 | 0.05 | 126 | | |
| 1 | 145 | 9.50 | 9.48 | 33.957 | 26.224 | 181.5 | 0.346 | 2.83 | 44.0 | 28.9 | 1.86 | 24.9 | 0.01 | 0.01 | 0.04 | 146 | |
| 150 ISL | 9.42 | 9.40 | 33.970 | 26.247 | 179.4 | 0.355 | 2.77 | 43.0 | 29.7 | 1.89 | 25.3 | 0.01 | 0.01 | 0.04 | 151 | | |
| 1 | 174 | 9.07 | 9.05 | 34.025 | 26.347 | 170.3 | 0.397 | 2.49 | 38.3 | 33.4 | 2.03 | 27.1 | 0.00 | 0.01 | 0.04 | 175 | |
| 200 ISL | 8.84 | 8.82 | 34.085 | 26.431 | 162.8 | 0.441 | 2.21 | 33.8 | 36.9 | 2.14 | 28.5 | 0.00 | 0.01 | 0.03 | 202 | | |
| 1 | 205 | 8.81 | 8.79 | 34.095 | 26.443 | 161.7 | 0.449 | 2.16 | 33.1 | 37.5 | 2.16 | 28.7 | 0.00 | 0.01 | 0.03 | 207 | |
| 1 | 233 | 8.63 | 8.61 | 34.137 | 26.505 | 156.3 | 0.493 | 1.92 | 29.3 | 40.2 | 2.27 | 29.9 | 0.00 | | | 235 | |
| 250 ISL | 8.47 | 8.44 | 34.162 | 26.549 | 152.4 | 0.520 | 1.72 | 26.1 | 42.9 | 2.35 | 30.8 | 0.00 | | | | 252 | |
| 1 | 273 | 8.24 | 8.21 | 34.193 | 26.609 | 147.1 | 0.554 | 1.44 | 21.8 | 46.8 | 2.46 | 32.0 | 0.00 | | | 275 | |
| 300 ISL | 8.05 | 8.02 | 34.217 | 26.656 | 142.9 | 0.593 | 1.22 | 18.4 | 49.7 | 2.55 | 33.0 | 0.00 | | | | 302 | |
| 1 | 327 | 7.85 | 7.82 | 34.236 | 26.701 | 139.1 | 0.631 | 1.04 | 15.6 | 52.9 | 2.64 | 34.0 | 0.00 | | | 330 | |
| 1 | 387 | 7.06 | 7.02 | 34.282 | 26.850 | 125.4 | 0.710 | 0.58 | 8.5 | 65.5 | 2.88 | 36.6 | 0.00 | | | 390 | |
| 400 ISL | 6.93 | 6.89 | 34.289 | 26.874 | 123.3 | 0.727 | 0.52 | 7.6 | 67.5 | 2.91 | 37.1 | 0.00 | | | | 403 | |
| 1 | 449 | 6.51 | 6.47 | 34.308 | 26.945 | 116.8 | 0.785 | 0.37 | 5.4 | 74.2 | 3.01 | 38.6 | 0.00 | | | 453 | |
| 500 ISL | 6.15 | 6.11 | 34.331 | 27.011 | 111.0 | 0.844 | 0.29 | 4.2 | 80.9 | 3.09 | 39.1 | 0.00 | | | | 504 | |
| 1 | 516 | 6.04 | 5.99 | 34.339 | 27.031 | 109.2 | 0.861 | 0.26 | 3.7 | 83.0 | 3.12 | 39.3 | 0.00 | | | 521 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 39.5

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|------|-------|-------|-------|
| 33 40.4 N | 118 56.5 W | 26/01/88 | 0743 UTC | 899 M | 020 | 01 KT | | | 1021.1 MB | 15.7 C | 13.A C | | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | POA | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | PSS 78 | 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 | 13.61 | 13.61 | 33.A27 | 25.052 | 289.8 | 0.000 | 6.21 | 105.1 | A.3 | 0.4L | 0.9 | 0.02 | 1.42 | 0.38 | 0 | | |
| 1 | 1 | 13.61 | 13.61 | 33.A27 | 25.052 | 289.8 | 0.003 | 6.21 | 105.1 | A.3 | 0.4L | 0.9 | 0.02 | 1.42 | 0.38 | 1 | |
| 10 ISL | 13.44 | 13.44 | 33.425 | 25.086 | 286.9 | 0.029 | 6.17 | 104.0 | 4.4 | 0.43 | 1.1 | 0.04 | 1.63 | 0.39 | 10 | | |
| 1 | 11 | 13.40 | 13.40 | 33.425 | 25.094 | 286.1 | 0.032 | 6.16 | 103.8 | A.4 | 0.43 | 1.1 | 0.04 | 1.64 | 0.39 | 11 | |
| 20 ISL | 12.95 | 12.95 | 33.446 | 25.200 | 276.3 | 0.057 | 5.82 | 97.1 | 6.1 | 0.58 | 3.8 | 0.14 | 1.14 | 0.48 | 20 | | |
| 1 | 21 | 12.90 | 12.90 | 33.449 | 25.212 | 275.1 | 0.060 | 5.78 | 96.4 | 6.3 | 0.60 | 4.1 | 0.15 | 1.07 | 0.49 | 21 | |
| 30 ISL | 12.64 | 12.64 | 33.464 | 25.275 | 269.4 | 0.084 | 5.54 | 91.9 | 7.3 | 0.71 | 5.8 | 0.23 | 0.66 | 0.37 | 30 | | |
| 1 | 31 | 12.62 | 12.62 | 33.465 | 25.280 | 269.0 | 0.087 | 5.52 | 91.5 | 7.4 | 0.72 | 5.9 | 0.24 | 0.63 | 0.35 | 31 | |
| 1 | 41 | 12.28 | 12.27 | 33.485 | 25.361 | 261.5 | 0.113 | 5.61 | 92.3 | 8.5 | 0.79 | 6.9 | 0.2A | 0.56 | 0.34 | 41 | |
| 50 ISL | 12.08 | 12.07 | 33.505 | 25.415 | 256.6 | 0.137 | 5.34 | 87.5 | 9.8 | 0.87 | 8.5 | 0.26 | 0.33 | 0.25 | 50 | | |
| 1 | 51 | 12.06 | 12.05 | 33.508 | 25.421 | 256.0 | 0.139 | 5.30 | 86.8 | 10.0 | 0.88 | 8.7 | 0.26 | 0.30 | 0.24 | 51 | |
| 1 | 61 | 11.71 | 11.70 | 33.5AA | 25.515 | 2A7.3 | 0.165 | 4.88 | 79.4 | 11.7 | 1.02 | 10.6 | 0.23 | 0.20 | 0.19 | 61 | |
| 1 | 71 | 10.95 | 10.9A | 33.636 | 25.72A | 227.5 | 0.188 | 4.1A | 66.3 | 16.6 | 1.31 | 16.2 | 0.11 | 0.07 | 0.1A | 72 | |
| 75 ISL | 10.72 | 10.71 | 33.665 | 25.788 | 221.6 | 0.197 | 3.92 | 62.5 | 18.0 | 1.40 | 17.7 | 0.08 | 0.06 | 0.13 | 76 | | |
| 1 | 85 | 10.26 | 10.25 | 33.726 | 25.915 | 209.6 | 0.219 | 3.53 | 55.7 | 20.7 | 1.56 | 20.2 | 0 | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-----------|------|------|-------|-------|-------|
| 33 29.5 N | 119 19.4 W | 26/01/88 | 1159 UTC | 1668 M | 070 | 03 KT | | | 1019.9 MB | 14.2 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 | PSS 78 | THETA | | ML/L | PCT | UM/L | | | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 12.67 | 12.67 | 33.479 | 25.280 | 268.1 | 0.000 | 6.01 | 99.8 | 7.5 | 0.62 | 4.5 | 0.12 | 1.15 | 0.24 | 0 | |
| 1 | 10 | 12.37 | 12.37 | 33.489 | 25.346 | 262.1 | 0.027 | 5.92 | 97.6 | 8.2 | 0.69 | 5.5 | 0.14 | 1.15 | 0.36 | 10 | |
| 1 | 20 | 12.34 | 12.34 | 33.489 | 25.352 | 261.8 | 0.053 | 5.88 | 96.9 | 8.0 | 0.71 | 5.8 | 0.15 | 0.99 | 0.38 | 20 | |
| 1 | 30 | 12.32 | 12.32 | 33.491 | 25.358 | 261.5 | 0.079 | 5.80 | 95.6 | 8.2 | 0.73 | 6.2 | 0.16 | 0.91 | 0.44 | 30 | |
| 1 | 40 | 12.17 | 12.16 | 33.508 | 25.400 | 257.8 | 0.105 | 5.63 | 92.5 | 9.0 | 0.79 | 7.2 | 0.18 | 0.68 | 0.32 | 40 | |
| 1 | 50 | 11.30 | 11.29 | 33.614 | 25.644 | 234.7 | 0.129 | 4.49 | 72.4 | 14.5 | 1.18 | 13.9 | 0.16 | 0.24 | 0.21 | 50 | |
| 1 | 60 | 10.59 | 10.58 | 33.594 | 25.755 | 224.4 | 0.152 | 3.87 | 61.5 | 17.8 | 1.39 | 17.7 | 0.04 | 0.07 | 0.11 | 60 | |
| 1 | 70 | 10.30 | 10.29 | 33.723 | 25.906 | 210.2 | 0.174 | 3.68 | 58.1 | 20.1 | 1.50 | 19.5 | 0.03 | 0.05 | 0.10 | 71 | |
| 1 | 75 ISL | 10.19 | 10.18 | 33.755 | 25.949 | 206.1 | 0.185 | 3.58 | 56.4 | 21.1 | 1.55 | 20.2 | 0.03 | 0.04 | 0.09 | 76 | |
| 1 | 85 | 9.96 | 9.95 | 33.799 | 26.023 | 199.4 | 0.205 | 3.35 | 52.5 | 23.3 | 1.65 | 21.6 | 0.02 | 0.03 | 0.08 | 86 | |
| 100 | ISL | 9.43 | 9.42 | 33.906 | 26.194 | 183.3 | 0.234 | 2.95 | 45.7 | 28.6 | 1.83 | 24.5 | 0.01 | 0.01 | 0.07 | 101 | |
| 1 | 101 | 9.40 | 9.39 | 33.913 | 26.205 | 182.3 | 0.235 | 2.93 | 45.4 | 28.9 | 1.84 | 24.7 | 0.01 | 0.01 | 0.07 | 102 | |
| 1 | 120 | 9.24 | 9.23 | 33.961 | 26.269 | 176.6 | 0.269 | 2.66 | 41.1 | 31.4 | 1.94 | 25.8 | 0.02 | 0.01 | 0.08 | 121 | |
| 1 | 125 ISL | 9.18 | 9.17 | 33.974 | 26.289 | 174.8 | 0.278 | 2.63 | 40.6 | 32.0 | 1.96 | 26.1 | 0.02 | 0.01 | 0.07 | 126 | |
| 1 | 145 | 8.94 | 8.92 | 34.026 | 26.368 | 167.7 | 0.312 | 2.50 | 38.4 | 34.4 | 2.03 | 27.2 | 0.01 | 0.01 | 0.05 | 146 | |
| 150 | ISL | 8.87 | 8.85 | 34.043 | 26.392 | 165.4 | 0.321 | 2.41 | 36.9 | 35.4 | 2.07 | 27.7 | 0.01 | 0.01 | 0.05 | 151 | |
| 1 | 176 | 8.59 | 8.57 | 34.114 | 26.492 | 156.4 | 0.363 | 1.96 | 29.9 | 40.1 | 2.24 | 29.8 | 0.01 | 0.00 | 0.05 | 177 | |
| 200 | ISL | 8.57 | 8.55 | 34.121 | 26.501 | 156.0 | 0.400 | 1.94 | 29.5 | 39.9 | 2.26 | 29.9 | 0.00 | 0.00 | 0.04 | 202 | |
| 1 | 206 | 8.56 | 8.54 | 34.122 | 26.503 | 155.9 | 0.410 | 1.94 | 29.5 | 39.9 | 2.26 | 29.9 | 0.00 | 0.00 | 0.04 | 208 | |
| 1 | 234 | 8.16 | 8.14 | 34.184 | 26.613 | 145.9 | 0.452 | 1.50 | 22.6 | 45.8 | 2.43 | 32.0 | 0.00 | | | 236 | |
| 250 | ISL | 8.02 | 7.99 | 34.206 | 26.651 | 142.5 | 0.475 | 1.31 | 19.7 | 48.4 | 2.51 | 32.8 | 0.00 | | | 252 | |
| 1 | 273 | 7.86 | 7.83 | 34.227 | 26.692 | 139.0 | 0.507 | 1.10 | 16.5 | 51.7 | 2.60 | 33.7 | 0.00 | | | 275 | |
| 300 | ISL | 7.63 | 7.60 | 34.246 | 26.740 | 134.7 | 0.544 | 0.94 | 14.0 | 55.1 | 2.69 | 34.7 | 0.00 | | | 302 | |
| 1 | 327 | 7.41 | 7.38 | 34.260 | 26.783 | 131.0 | 0.580 | 0.82 | 12.2 | 58.3 | 2.76 | 35.5 | 0.00 | | | 330 | |
| 1 | 385 | 7.00 | 6.96 | 34.283 | 26.859 | 124.4 | 0.654 | 0.58 | 8.5 | 65.2 | 2.87 | 37.0 | 0.00 | | | 388 | |
| 400 | ISL | 6.89 | 6.85 | 34.289 | 26.879 | 122.7 | 0.673 | 0.54 | 7.9 | 66.9 | 2.90 | 37.4 | 0.00 | | | 403 | |
| 1 | 450 | 6.53 | 6.49 | 34.308 | 26.943 | 117.1 | 0.733 | 0.43 | 6.2 | 72.9 | 2.98 | 38.5 | 0.00 | | | 454 | |
| 500 | ISL | 6.19 | 6.15 | 34.329 | 27.004 | 111.7 | 0.790 | 0.33 | 4.8 | 79.5 | 3.05 | 39.4 | 0.00 | | | 504 | |
| 1 | 517 | 6.08 | 6.03 | 34.337 | 27.025 | 109.9 | 0.809 | 0.29 | 4.2 | 81.8 | 3.07 | 39.7 | 0.00 | | | 522 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|-----------|--------|-----------|--------|------|-------|-------|-------|
| 33 19.4 N | 119 39.8 W | 26/01/88 | 1523 UTC | 77 M | 090 | 02 KT | 330 | 02 07 | 1 | 1020.4 MB | 14.9 C | 12.2 C | 6/8 ST | | | | |
| 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 | PSS 78 | THETA | | ML/L | PCT | UM/L | | | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 12.94 | 12.94 | 33.468 | 25.219 | 274.0 | 0.000 | 6.05 | 101.0 | 5.8 | 0.54 | 3.1 | 0.10 | 1.21 | 0.39 | 0 | |
| 1 | 10 | 12.81 | 12.81 | 33.472 | 25.248 | 271.5 | 0.027 | 6.01 | 100.0 | 6.5 | 0.58 | 3.8 | 0.11 | 1.32 | 0.38 | 10 | |
| 1 | 20 | 12.28 | 12.28 | 33.499 | 25.371 | 259.9 | 0.054 | 5.59 | 92.0 | 8.2 | 0.80 | 7.4 | 0.21 | 0.61 | 0.43 | 20 | |
| 1 | 30 | 11.94 | 11.94 | 33.536 | 25.465 | 251.3 | 0.079 | 5.25 | 85.8 | 10.4 | 0.94 | 9.6 | 0.24 | 0.29 | 0.23 | 30 | |
| 1 | 40 | 11.72 | 11.71 | 33.563 | 25.527 | 245.6 | 0.104 | 5.06 | 82.3 | 11.6 | 1.01 | 10.8 | 0.23 | 0.23 | 0.23 | 40 | |
| 1 | 50 | 11.44 | 11.43 | 33.597 | 25.605 | 238.4 | 0.128 | 4.76 | 77.0 | 13.7 | 1.12 | 12.7 | 0.20 | 0.17 | 0.18 | 50 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | | |
|----------|-----------|-----------|-----------|----------|--------|-------|-------|---------|-----------|-----------|--------|-----------|--------|------|--------|-------|-------|
| 33 9.4 N | 120 0.2 W | 26/01/88 | 2228 UTC | 1251 M | 030 | 06 KT | 310 | 02 08 | 1 | 1019.5 MB | 17.1 C | 15.8 C | 6/8 CC | | | | |
| 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 | PSS 78 | THETA | | ML/L | PCT | UM/L | | | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 | ISL | 13.81 | 13.81 | 33.436 | 25.019 | 293.0 | 0.000 | 6.05 | 102.8 | 4.7 | 0.52 | 2.6 | 0.10 | 0.75 | 0.22 | 0 | |
| 1 | 1 | 13.81 | 13.81 | 33.436 | 25.019 | 293.0 | 0.003 | 6.05 | 102.8 | 4.7 | 0.52 | 2.6 | 0.10 | 0.75 | 0.22 | 1 | |
| 1 | 10 | 13.31 | 13.31 | 33.431 | 25.117 | 284.0 | 0.029 | 6.07 | 102.1 | 4.6 | 0.52 | 2.5 | 0.10 | 0.92 | 0.29 | 10 | |
| 1 | 20 | 13.28 | 13.28 | 33.432 | 25.124 | 283.5 | 0.057 | 6.05 | 101.7 | 4.6 | 0.52 | 2.6 | 0.10 | 1.06 | 0.34 | 20 | |
| 1 | 30 | 13.23 | 13.23 | 33.432 | 25.134 | 282.8 | 0.086 | 5.98 | 100.4 | 4.5 | 0.54 | 2.8 | 0.12 | 0.94 | 0.39 | 30 | |
| 1 | 40 | 13.16 | 13.15 | 33.431 | 25.147 | 281.8 | 0.114 | 5.90 | 98.9 | 4.5 | 0.56 | 3.2 | 0.16 | 0.86 | 0.42 | 40 | |
| 1 | 50 | 13.16 | 13.15 | 33.429 | 25.146 | 282.2 | 0.142 | 5.81 | 97.4 | 4.9 | 0.58 | 3.4 | 0.17 | 0.59 | 0.37 | 50 | |
| 1 | 60 | 13.00 | 12.99 | 33.436 | 25.184 | 278.9 | 0.170 | 5.68 | 94.9 | 5.7 | 0.65 | 4.4 | 0.19 | 0.46 | 0.31 | 60 | |
| 1 | 71 | 12.67 | 12.66 | 33.456 | 25.264 | 271.5 | 0.200 | 5.73 | 95.1 | 7.1 | 0.72 | 5.6 | 0.20 | 0.44 | 0.35 | 72 | |
| 75 | ISL | 12.49 | 12.48 | 33.467 | 25.308 | 267.5 | 0.211 | 5.66 | 93.6 | 7.7 | 0.76 | 6.3 | 0.21 | 0.37 | 0.32 | 76 | |
| 1 | 85 | 11.84 | 11.83 | 33.521 | 25.473 | 251.9 | 0.237 | 5.19 | 84.6 | 10.5 | 0.95 | 9.5 | 0.25 | 0.16 | 0.20 | 86 | |
| 1 | 99 | 10.30 | 10.29 | 33.703 | 25.891 | 212.3 | 0.270 | 3.64 | 57.5 | 19.8 | 1.51 | 19.5 | 0.03 | 0.04 | 0.08 | 100 | |
| 100 | ISL | 10.27 | 10.26 | 33.715 | 25.905 | 210.9 | 0.272 | 3.62 | 57.1 | 20.1 | 1.53 | 19.6 | 0.03 | 0.04 | 0.08 | 101 | |
| 1 | 120 | 9.76 | 9.75 | 33.791 | 26.051 | 197.4 | 0.313 | 3.27 | 51.0 | 23.9 | 1.73 | 22.5 | 0.01 | 0.02 | 0.05 | 121 | |
| 125 | ISL | 9.64 | 9.63 | 33.820 | 26.093 | 193.5 | 0.322 | 3.19 | 49.7 | 24.9 | 1.76 | 23.1 | 0.01 | 0.02 | 0.05</ | | |

RV I/AVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 59.4 N | 120 20.9 W | 27/01/88 | 0200 UTC | 723 M | 020 | 08 KT | 290 02 11 | 1 | 1018.0 MB | 15.4 C | 1A.5 C | 6/8 | CC | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | POA | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.18 | 14.18 | 33.478 | 24.974 | 297.2 | 0.000 | 6.04 | 103.4 | 4.0 | 0.48 | 2.0 | 0.06 | 0.82 | 0.22 | 0 |
| 10 | ISL | 13.82 | 13.82 | 33.483 | 25.053 | 290.0 | 0.029 | 6.00 | 102.0 | 4.2 | 0.49 | 2.1 | 0.07 | 0.78 | 0.33 | 10 |
| 15 | | 13.64 | 13.64 | 33.486 | 25.092 | 286.4 | 0.044 | 5.98 | 101.3 | 4.3 | 0.50 | 2.2 | 0.07 | 0.76 | 0.39 | 15 |
| 20 | ISL | 13.57 | 13.57 | 33.486 | 25.107 | 285.1 | 0.058 | 5.92 | 100.1 | 4.4 | 0.52 | 2.4 | 0.08 | 0.72 | 0.41 | 20 |
| 29 | | 13.51 | 13.51 | 33.482 | 25.116 | 284.5 | 0.084 | 5.81 | 98.1 | 4.5 | 0.55 | 2.8 | 0.09 | 0.63 | 0.44 | 29 |
| 30 | ISL | 13.50 | 13.50 | 33.481 | 25.118 | 284.4 | 0.087 | 5.81 | 98.1 | 4.5 | 0.55 | 2.8 | 0.09 | 0.62 | 0.44 | 30 |
| 40 | | 13.41 | 13.40 | 33.472 | 25.129 | 283.6 | 0.115 | 5.78 | 97.4 | 4.8 | 0.57 | 3.1 | 0.11 | 0.55 | 0.38 | 40 |
| 49 | | 13.34 | 13.33 | 33.467 | 25.140 | 282.8 | 0.140 | 5.78 | 97.3 | 5.1 | 0.58 | 3.3 | 0.13 | 0.49 | 0.37 | 49 |
| 50 | ISL | 13.34 | 13.33 | 33.466 | 25.139 | 282.9 | 0.143 | 5.78 | 97.3 | 5.1 | 0.58 | 3.3 | 0.13 | 0.48 | 0.36 | 50 |
| 60 | | 13.29 | 13.28 | 33.462 | 25.146 | 282.5 | 0.172 | 5.73 | 96.3 | 5.3 | 0.59 | 3.5 | 0.15 | 0.41 | 0.29 | 60 |
| 71 | | 13.20 | 13.19 | 33.465 | 25.167 | 280.9 | 0.203 | 5.75 | 96.5 | 5.5 | 0.60 | 3.7 | 0.15 | 0.39 | 0.29 | 72 |
| 75 | ISL | 13.14 | 13.13 | 33.467 | 25.180 | 279.7 | 0.214 | 5.68 | 95.2 | 5.8 | 0.62 | 4.1 | 0.17 | 0.32 | 0.26 | 76 |
| 80 | | 13.06 | 13.05 | 33.469 | 25.198 | 278.1 | 0.228 | 5.60 | 93.7 | 6.2 | 0.65 | 4.5 | 0.18 | 0.21 | 0.21 | 81 |
| 95 | | 10.36 | 10.35 | 33.651 | 25.840 | 217.0 | 0.265 | 3.77 | 59.6 | 18.3 | 1.46 | 18.6 | 0.02 | 0.05 | 0.08 | 96 |
| 100 | ISL | 10.01 | 10.00 | 33.685 | 25.926 | 208.9 | 0.275 | 3.73 | 58.5 | 19.6 | 1.50 | 19.3 | 0.02 | 0.04 | 0.07 | 101 |
| U0 | | 9.71 | 9.70 | 33.740 | 26.019 | 200.2 | 0.296 | 3.64 | 56.7 | 21.2 | 1.57 | 20.7 | 0.01 | 0.03 | 0.05 | HI |
| 124 | | 9.43 | 9.42 | 33.883 | 26.177 | 185.5 | 0.323 | 3.01 | 46.7 | 27.0 | 1.81 | 24.1 | 0.01 | 0.02 | 0.06 | 125 |
| 125 | ISL | 9.42 | 9.41 | 33.888 | 26.182 | 185.0 | 0.325 | 3.01 | 46.7 | 27.2 | 1.81 | 24.1 | 0.01 | 0.02 | 0.06 | 126 |
| 149 | | 9.15 | 9.13 | 33.944 | 26.270 | 177.0 | 0.368 | 2.95 | 45.5 | 29.4 | 1.86 | 24.9 | 0.01 | 0.01 | 0.05 | 150 |
| 150 | ISL | 9.14 | 9.12 | 33.947 | 26.274 | 176.7 | 0.370 | 2.94 | 45.3 | 29.5 | 1.87 | 25.0 | 0.01 | 0.01 | 0.05 | 151 |
| 175 | | 8.83 | 8.81 | 34.020 | 26.381 | 167.0 | 0.413 | 2.61 | 39.9 | 33.8 | 2.02 | 27.0 | 0.00 | 0.01 | 0.05 | 176 |
| 200 | ISL | 8.52 | 8.50 | 34.089 | 26.483 | 157.7 | 0.454 | 2.23 | 33.9 | 39.0 | 2.17 | 29.0 | 0.00 | 0.00 | 0.03 | 202 |
| 205 | | 8.46 | 8.44 | 34.100 | 26.501 | 156.0 | 0.461 | 2.16 | 32.8 | 39.9 | 2.20 | 29.3 | 0.00 | 0.00 | 0.03 | 207 |
| 235 | | 8.23 | 8.21 | 34.123 | 26.555 | 151.4 | 0.507 | 1.98 | 29.9 | 42.3 | 2.29 | 30.4 | 0.00 | | | 237 |
| 250 | ISL | 8.11 | 8.08 | 34.138 | 26.585 | 148.8 | 0.530 | 1.84 | 27.7 | 44.1 | 2.35 | 31.0 | 0.00 | | | 252 |
| 275 | | 7.90 | 7.87 | 34.165 | 26.637 | 144.2 | 0.567 | 1.58 | 23.7 | 47.8 | 2.45 | 32.2 | 0.00 | | | 277 |
| 300 | ISL | 7.62 | 7.59 | 34.189 | 26.697 | 138.8 | 0.602 | 1.30 | 19.4 | 52.3 | 2.57 | 33.6 | 0.00 | | | 302 |
| 328 | | 7.30 | 7.27 | 34.214 | 26.762 | 132.9 | 0.640 | 1.01 | 14.9 | 57.5 | 2.70 | 35.1 | 0.00 | | | 331 |
| 386 | | 6.78 | 6.74 | 34.261 | 26.872 | 123.1 | 0.714 | 0.63 | 9.2 | 66.7 | 2.89 | 37.2 | 0.00 | | | 389 |
| 400 | ISL | 6.70 | 6.66 | 34.268 | 26.888 | 121.7 | 0.731 | 0.58 | 8.5 | 68.1 | 2.91 | 37.5 | 0.00 | | | 403 |
| 449 | | 6.43 | 6.39 | 34.289 | 26.941 | 117.2 | 0.790 | 0.46 | 6.7 | 72.8 | 2.97 | 38.6 | 0.00 | | | 453 |
| 500 | ISL | 6.02 | 5.98 | 34.311 | 27.011 | 110.8 | 0.848 | 0.35 | 5.0 | 79.4 | 3.05 | 39.9 | 0.00 | | | 504 |
| 518 | | 5.87 | 5.82 | 34.319 | 27.037 | 108.5 | 0.868 | 0.31 | 4.4 | 81.7 | 3.08 | 40.4 | 0.00 | | | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 32 39.4 N | 121 2.0 W | 27/01/88 | 1301 UTC | 3924 M | 040 | 05 KT | | | 1019.0 MB | 14.8 C | 14.0 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.71 | 13.71 | 33.367 | 24.986 | 296.1 | 0.000 | 6.11 | 103.6 | 3.3 | 0.46 | 1.4 | 0.06 | 0.99 | 0.28 | 0 |
| 10 | ISL | 13.40 | 13.40 | 33.337 | 25.026 | 292.6 | 0.029 | 5.98 | 100.7 | 3.4 | 0.49 | 1.9 | 0.11 | 0.88 | 0.43 | 10 |
| 15 | | 13.25 | 13.25 | 33.322 | 25.044 | 290.9 | 0.044 | 5.92 | 99.4 | 3.5 | 0.51 | 2.1 | 0.14 | 0.83 | 0.50 | 15 |
| 20 | ISL | 13.25 | 13.25 | 33.325 | 25.047 | 290.9 | 0.059 | 5.91 | 99.2 | 3.6 | 0.52 | 2.2 | 0.15 | 0.76 | 0.47 | 20 |
| 30 | ISL | 13.24 | 13.24 | 33.330 | 25.053 | 290.5 | 0.088 | 5.88 | 98.7 | 3.7 | 0.53 | 2.4 | 0.16 | 0.63 | 0.42 | 30 |
| 35 | | 13.24 | 13.24 | 33.333 | 25.056 | 290.4 | 0.102 | 5.86 | 98.3 | 3.8 | 0.53 | 2.4 | 0.16 | 0.56 | 0.39 | 35 |
| 50 | ISL | 13.27 | 13.26 | 33.350 | 25.063 | 290.1 | 0.146 | 5.84 | 98.1 | 3.9 | 0.54 | 2.5 | 0.17 | 0.38 | 0.29 | 50 |
| 55 | | 13.28 | 13.27 | 33.357 | 25.067 | 289.9 | 0.160 | 5.83 | 97.9 | 4.0 | 0.54 | 2.5 | 0.17 | 0.34 | 0.26 | 55 |
| 71 | | 13.09 | 13.08 | 33.340 | 25.092 | 288.0 | 0.206 | 5.75 | 96.2 | 4.4 | 0.58 | 3.1 | 0.18 | 0.29 | 0.23 | 72 |
| 75 | ISL | 12.23 | 12.22 | 33.369 | 25.281 | 269.9 | 0.218 | 5.24 | 86.1 | 7.9 | 0.82 | 7.4 | 0.13 | 0.19 | 0.17 | 76 |
| 80 | | 11.13 | 11.12 | 33.440 | 25.540 | 245.3 | 0.230 | 4.54 | 72.9 | 12.7 | 1.14 | 13.1 | 0.07 | 0.08 | 0.10 | 81 |
| 90 | | 10.34 | 10.33 | 33.654 | 25.845 | 216.4 | 0.254 | 3.63 | 57.3 | 19.1 | 1.50 | 19.3 | 0.01 | 0.04 | 0.09 | 91 |
| 100 | ISL | 10.00 | 9.99 | 33.721 | 25.956 | 206.1 | 0.275 | 3.47 | 54.4 | 21.5 | 1.60 | 21.1 | 0.01 | 0.02 | 0.06 | 101 |
| 101 | | 9.98 | 9.97 | 33.723 | 25.961 | 205.6 | 0.277 | 3.45 | 54.1 | 21.6 | 1.60 | 21.1 | 0.01 | 0.02 | 0.06 | 102 |
| 112 | | 9.65 | 9.64 | 33.784 | 26.063 | 196.0 | 0.299 | 3.30 | 51.4 | 23.9 | 1.69 | 22.5 | 0.01 | 0.01 | 0.05 | 113 |
| 125 | ISL | 9.30 | 9.29 | 33.877 | 26.193 | 183.9 | 0.324 | 3.05 | 47.1 | 27.4 | 1.80 | 24.3 | 0.01 | 0.01 | 0.04 | 126 |
| 126 | | 9.27 | 9.26 | 33.884 | 26.204 | 182.9 | 0.325 | 3.03 | 46.8 | 27.7 | 1.81 | 24.4 | 0.01 | 0.01 | 0.04 | 127 |
| 142 | | 8.87 | 8.85 | 33.963 | 26.329 | 171.2 | 0.354 | 2.92 | 44.7 | 31.4 | 1.89 | 25.8 | 0.01 | 0.00 | 0.04 | 143 |
| 150 | ISL | 8.70 | 8.68 | 33.975 | 26.365 | 167.9 | 0.367 | 2.96 | 45.2 | 32.1 | 1.90 | 26.0 | 0.01 | 0.00 | 0.04 | 151 |
| 161 | | 8.52 | 8.50 | 33.983 | 26.400 | 164.8 | 0.386 | 3.01 | 45.7 | 32.9 | 1.90 | 26.2 | 0.00 | 0.00 | 0.03 | 162 |
| 181 | | 8.34 | 8.32 | 34.021 | 26.457 | 159.7 | 0.418 | 2.81 | 42.5 | 36.0 | 1.99 | 27.4 | 0.00 | 0.00 | 0.03 | 182 |
| 200 | ISL | 8.12 | 8.10 | 34.052 | 26.515 | 154.5 | 0.448 | 2.65 | 39.9 | 39.0 | 2.07 | 28.5 | 0.00 | 0.00 | 0.03 | 202 |
| 206 | | 8.03 | 8.01 | 34.058 | 26.533 | 152.9 | 0.457 | 2.61 | 39.2 | 40.0 | 2.09 | 28.8 | 0.00 | 0.00 | 0.03 | 208 |
| 236 | | 7.38 | 7.36 | 34.047 | 26.619 | 144.9 | 0.502 | 2.45 | 36.3 | 46.0 | 2.20 | 30.6 | 0.00 | | | 238 |
| 250 | ISL | 7.20 | 7.18 | 34.050 | 26.646 | 142.4 | 0.522 | 2.32 | 34.2 | 48.5 | 2.26 | 31.5 | 0.00 | | | 252 |
| 275 | | 7.01 | 6.98 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 80

| LATITUDE 32 19.4 N | LONGITUDE 121 42.9 W | DAY/MO/YR 27/01/88 | MESSENGER 0728 UTC | BOTTOM 4018 M | WIND 270 | SPEED 02 KT | WAVES | WEATHER | BAROMETER | | | DRY 1016.4 MB | WET 14.4 C | CLOUD 14.1 C | AMT | TYPE | | |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------|----------------|-------|---------|-----------|------------|---------------|-------------------|--------------------|-----------------|------|------|------|----------------|
| | | | | | | | | | CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | SIGMA THETA | SVA | DYN | HT | OXYGEN ML/L |
| 1 | 0 ISL | 13.51 | 13.51 | 33.242 | 24.930 | 301.4 | 0.000 | 6.19 | 104.4 | 2.3 | 0.42 | 0.7 | 0.04 | 1.20 | 0.28 | 0 | 0.28 | 0 |
| 1 | 1 ISL | 13.51 | 13.51 | 33.242 | 24.930 | 301.5 | 0.003 | 6.19 | 104.4 | 2.3 | 0.42 | 0.7 | 0.04 | 1.20 | 0.28 | 1 | 0.28 | 1 |
| 1 | 10 ISL | 13.48 | 13.48 | 33.249 | 24.942 | 300.6 | 0.030 | 6.20 | 104.5 | 2.4 | 0.43 | 0.8 | 0.05 | 1.21 | 0.30 | 10 | 0.30 | 10 |
| 1 | 16 ISL | 13.46 | 13.46 | 33.269 | 24.961 | 298.9 | 0.048 | 6.20 | 104.5 | 2.7 | 0.44 | 0.9 | 0.05 | 1.22 | 0.31 | 16 | 0.31 | 16 |
| 1 | 20 ISL | 13.43 | 13.43 | 33.291 | 24.984 | 296.8 | 0.060 | 6.17 | 103.9 | 3.0 | 0.45 | 1.2 | 0.06 | 1.18 | 0.35 | 20 | 0.35 | 20 |
| 1 | 30 ISL | 13.31 | 13.31 | 33.346 | 25.051 | 290.7 | 0.089 | 6.05 | 101.7 | 3.8 | 0.50 | 2.1 | 0.11 | 1.01 | 0.42 | 30 | 0.42 | 30 |
| 1 | 35 ISL | 13.22 | 13.22 | 33.372 | 25.090 | 287.2 | 0.104 | 5.98 | 100.3 | 4.3 | 0.53 | 2.6 | 0.14 | 0.90 | 0.44 | 35 | 0.44 | 35 |
| 1 | 50 ISL | 12.84 | 12.83 | 33.385 | 25.175 | 279.4 | 0.146 | 5.77 | 96.1 | 5.3 | 0.63 | 4.0 | 0.24 | 0.48 | 0.28 | 50 | 0.28 | 50 |
| 1 | 54 ISL | 12.71 | 12.70 | 33.382 | 25.198 | 277.3 | 0.157 | 5.72 | 95.0 | 5.7 | 0.66 | 4.5 | 0.26 | 0.40 | 0.24 | 54 | 0.24 | 54 |
| 1 | 67 ISL | 12.22 | 12.21 | 33.365 | 25.280 | 269.8 | 0.193 | 5.65 | 92.8 | 7.7 | 0.78 | 6.6 | 0.24 | 0.47 | 0.34 | 68 | 0.34 | 68 |
| 1 | 75 ISL | 12.16 | 12.15 | 33.480 | 25.381 | 260.5 | 0.214 | 5.64 | 92.6 | 9.0 | 0.81 | 7.4 | 0.26 | 0.32 | 0.30 | 76 | 0.30 | 76 |
| 1 | 76 ISL | 12.15 | 12.14 | 33.495 | 25.394 | 259.2 | 0.217 | 5.64 | 92.6 | 9.2 | 0.82 | 7.5 | 0.26 | 0.30 | 0.29 | 77 | 0.29 | 77 |
| 1 | 87 ISL | 11.86 | 11.85 | 33.506 | 25.458 | 253.4 | 0.245 | 5.28 | 86.1 | 10.7 | 0.95 | 9.5 | 0.27 | 0.15 | 0.19 | 88 | 0.19 | 88 |
| 1 | 96 ISL | 11.57 | 11.56 | 33.530 | 25.530 | 246.6 | 0.268 | 5.04 | 81.7 | 12.1 | 1.03 | 11.0 | 0.25 | 0.14 | 0.18 | 97 | 0.18 | 97 |
| 1 | 100 ISL | 11.28 | 11.27 | 33.556 | 25.604 | 239.8 | 0.277 | 4.70 | 75.7 | 13.7 | 1.14 | 13.0 | 0.18 | 0.11 | 0.16 | 101 | 0.16 | 101 |
| 1 | 106 ISL | 10.80 | 10.79 | 33.604 | 25.727 | 228.1 | 0.291 | 4.14 | 66.0 | 16.4 | 1.33 | 16.3 | 0.07 | 0.07 | 0.12 | 107 | 0.12 | 107 |
| 1 | 121 ISL | 10.10 | 10.09 | 33.716 | 25.935 | 208.5 | 0.324 | 3.45 | 54.2 | 21.4 | 1.59 | 20.8 | 0.01 | 0.02 | 0.09 | 122 | 0.09 | 122 |
| 1 | 125 ISL | 9.91 | 9.90 | 33.743 | 25.988 | 203.5 | 0.332 | 3.35 | 52.4 | 22.7 | 1.64 | 21.7 | 0.01 | 0.02 | 0.08 | 126 | 0.08 | 126 |
| 1 | 136 ISL | 9.44 | 9.42 | 33.815 | 26.122 | 190.9 | 0.354 | 3.17 | 49.1 | 25.9 | 1.76 | 23.6 | 0.01 | 0.01 | 0.05 | 137 | 0.05 | 137 |
| 1 | 150 ISL | 9.05 | 9.03 | 33.908 | 26.258 | 178.2 | 0.380 | 2.95 | 45.3 | 29.4 | 1.87 | 25.4 | 0.00 | 0.00 | 0.05 | 151 | 0.05 | 151 |
| 1 | 155 ISL | 8.95 | 8.93 | 33.936 | 26.296 | 174.7 | 0.389 | 2.89 | 44.3 | 30.5 | 1.90 | 25.9 | 0.00 | 0.00 | 0.05 | 156 | 0.05 | 156 |
| 1 | 175 ISL | 8.56 | 8.54 | 33.997 | 26.405 | 164.6 | 0.423 | 2.78 | 42.3 | 33.7 | 1.97 | 27.1 | 0.00 | 0.00 | 0.03 | 176 | 0.03 | 176 |
| 1 | 200 ISL | 8.22 | 8.20 | 34.032 | 26.484 | 157.4 | 0.463 | 2.72 | 41.1 | 37.1 | 2.02 | 28.1 | 0.00 | 0.00 | 0.03 | 202 | 0.03 | 202 |
| 1 | 201 ISL | 8.21 | 8.19 | 34.033 | 26.486 | 157.2 | 0.464 | 2.72 | 41.0 | 37.2 | 2.02 | 28.1 | 0.00 | 0.00 | 0.03 | 203 | 0.03 | 203 |
| 1 | 230 ISL | 7.86 | 7.84 | 34.062 | 26.561 | 150.5 | 0.509 | 2.44 | 36.5 | 41.7 | 2.16 | 29.8 | 0.00 | 0.00 | 0.03 | 232 | 0.03 | 232 |
| 1 | 250 ISL | 7.61 | 7.59 | 34.082 | 26.614 | 145.8 | 0.539 | 2.16 | 32.2 | 45.8 | 2.28 | 31.3 | 0.00 | 0.00 | 0.03 | 252 | 0.03 | 252 |
| 1 | 270 ISL | 7.37 | 7.34 | 34.101 | 26.663 | 141.3 | 0.567 | 1.86 | 27.5 | 50.1 | 2.39 | 32.7 | 0.00 | 0.00 | 0.03 | 272 | 0.03 | 272 |
| 1 | 300 ISL | 7.11 | 7.08 | 34.126 | 26.719 | 136.3 | 0.609 | 1.52 | 22.4 | 55.2 | 2.53 | 34.4 | 0.00 | 0.00 | 0.03 | 302 | 0.00 | 302 |
| 1 | 327 ISL | 6.89 | 6.86 | 34.144 | 26.764 | 132.4 | 0.645 | 1.27 | 18.6 | 59.3 | 2.64 | 35.7 | 0.00 | 0.00 | 0.03 | 330 | 0.00 | 330 |
| 1 | 385 ISL | 6.34 | 6.31 | 34.175 | 26.862 | 123.6 | 0.719 | 0.84 | 12.1 | 67.8 | 2.82 | 38.2 | 0.00 | 0.00 | 0.03 | 388 | 0.00 | 388 |
| 1 | 400 ISL | 6.21 | 6.17 | 34.182 | 26.884 | 121.6 | 0.738 | 0.76 | 11.0 | 70.0 | 2.86 | 38.7 | 0.00 | 0.00 | 0.03 | 403 | 0.00 | 403 |
| 1 | 448 ISL | 5.86 | 5.82 | 34.210 | 26.951 | 115.6 | 0.795 | 0.55 | 7.9 | 76.9 | 2.97 | 40.0 | 0.00 | 0.00 | 0.03 | 452 | 0.00 | 452 |
| 1 | 500 ISL | 5.57 | 5.53 | 34.255 | 27.022 | 109.2 | 0.853 | 0.37 | 5.3 | 83.2 | 3.06 | 41.1 | 0.00 | 0.00 | 0.03 | 504 | 0.00 | 504 |
| 1 | 512 ISL | 5.50 | 5.46 | 34.265 | 27.039 | 107.7 | 0.866 | 0.33 | 4.7 | 84.7 | 3.08 | 41.3 | 0.00 | 0.00 | 0.03 | 516 | 0.00 | 516 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 90

| LATITUDE 31 59.4 N | LONGITUDE 122 23.6 W | DAY/MO/YR 27/01/88 | MESSENGER 1835 UTC | BOTTOM 4214 M | WIND 180 | SPEED 07 KT | WAVES 320 03 10 1 | WEATHER | BAROMETER | | | DRY 1018.9 MB | WET 15.8 C | CLOUD 15.5 C | AMT 6/8 | TYPE AC | | |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------|----------------|----------------------|---------|-----------|------------|---------------|-------------------|--------------------|-----------------|------------|------------|------|----------------|
| | | | | | | | | | CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | SIGMA THETA | SVA | DYN | HT | OXYGEN ML/L |
| 1 | 0 ISL | 14.14 | 14.14 | 33.221 | 24.784 | 315.3 | 0.000 | 6.02 | 102.9 | 2.2 | 0.39 | 0.3 | 0.03 | 0.43 | 0.13 | 0 | 0.13 | 0 |
| 1 | 1 ISL | 14.14 | 14.14 | 33.221 | 24.784 | 315.3 | 0.003 | 6.02 | 102.9 | 2.2 | 0.39 | 0.3 | 0.03 | 0.43 | 0.13 | 1 | 0.13 | 1 |
| 1 | 10 ISL | 13.70 | 13.70 | 33.218 | 24.873 | 307.1 | 0.031 | 6.11 | 103.5 | 2.7 | 0.42 | 0.5 | 0.05 | 0.70 | 0.19 | 10 | 0.19 | 10 |
| 1 | 15 ISL | 13.36 | 13.36 | 33.219 | 24.943 | 300.6 | 0.046 | 6.17 | 103.7 | 3.0 | 0.44 | 0.7 | 0.07 | 0.89 | 0.24 | 15 | 0.24 | 15 |
| 1 | 20 ISL | 13.22 | 13.22 | 33.226 | 24.976 | 297.6 | 0.061 | 6.16 | 103.3 | 3.1 | 0.46 | 1.0 | 0.11 | 0.88 | 0.30 | 20 | 0.30 | 20 |
| 1 | 30 ISL | 13.04 | 13.04 | 33.243 | 25.025 | 293.1 | 0.091 | 6.09 | 101.7 | 3.4 | 0.50 | 1.7 | 0.19 | 0.85 | 0.40 | 30 | 0.40 | 30 |
| 1 | 36 ISL | 13.00 | 13.00 | 33.256 | 25.044 | 291.6 | 0.108 | 6.03 | 100.6 | 3.5 | 0.53 | 2.2 | 0.24 | 0.83 | 0.44 | 36 | 0.44 | 36 |
| 1 | 50 ISL | 12.96 | 12.95 | 33.284 | 25.074 | 289.1 | 0.149 | 5.93 | 98.9 | 4.0 | 0.57 | 2.9 | 0.32 | 0.51 | 0.36 | 50 | 0.36 | 50 |
| 1 | 57 ISL | 12.94 | 12.93 | 33.300 | 25.090 | 287.7 | 0.169 | 5.87 | 97.9 | 4.3 | 0.59 | 3.2 | 0.35 | 0.33 | 0.29 | 57 | 0.29 | 57 |
| 1 | 71 ISL | 12.75 | 12.74 | 33.343 | 25.161 | 281.3 | 0.209 | 5.70 | 94.7 | 5.4 | 0.65 | 4.3 | 0.40 | 0.15 | 0.18 | 72 | 0.18 | 72 |
| 1 | 75 ISL | 12.54 | 12.53 | 33.346 | 25.204 | 277.3 | 0.220 | 5.54 | 91.6 | 6.2 | 0.71 | 5.4 | 0.32 | 0.11 | 0.15 | 76 | 0.15 | 76 |
| 1 | 80 ISL | 12.20 | 12.19 | 33.352 | 25.274 | 270.7 | 0.234 | 5.30 | 87.0 | 7.4 | 0.81 | 7.2 | 0.20 | 0.07 | 0.12 | 81 | 0.12 | 81 |
| 1 | 91 ISL | 11.19 | 11.18 | 33.396 | 25.495 | 249.8 | 0.263 | 4.73 | 76.0 | 10.8 | 1.05 | 11.7 | 0.03 | 0.05 | 0.09 | 92 | 0.09 | 92 |
| 1 | 100 ISL | 10.80 | 10.79 | 33.449 | 25.606 | 239.4 | 0.285 | 4.43 | 70.6 | 13.0 | 1.20 | 14.1 | 0.02 | 0.05 | 0.07 | 101 | 0.07 | 101 |
| 1 | 101 ISL | 10.77 | 10.76 | 33.456 | 25.617 | 238.4 | 0.287 | 4.40 | 70.1 | 13.3 | 1.22 | 14.4 | 0.02 | 0.05 | 0.07 | 102 | 0.07 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 100

| LATITUDE 31 39.A N | LONGITUDE 123 4.2 W | DAY/MO/YR 28/01/88 | MESSINGER 0048 UTC | BOTTOM 3833 M | WIND 230 06 KT | SPEED 310 03 09 | WAVES | WEATHER 1 | BAROMETER 1016.1 MB | DRY 16.9 C | WET 16.1 C | CLOUD 3/8 | AMT | TYPE CI | |
|-----------------------|------------------------|-----------------------|-----------------------|------------------|-------------------|--------------------|----------------|--------------|------------------------|---------------|---------------|--------------|---------------|----------------|----------------|
| CAST DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | 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 | 14.49 | 14.49 | 33.230 | 24.718 | 321.7 | 0.000 | 6.01 | 103.4 | 2.0 | 0.37 | 0.2 | 0.00 | 0.36 | 0.10 | 0 |
| 10 ISL | 14.15 | 14.15 | 33.205 | 24.770 | 316.9 | 0.032 | 5.99 | 102.4 | 2.1 | 0.40 | 0.5 | 0.05 | 0.39 | 0.15 | 10 |
| 1 16 | 13.94 | 13.94 | 33.191 | 24.803 | 314.0 | 0.051 | 5.98 | 101.7 | 2.2 | 0.41 | 0.6 | 0.08 | 0.40 | 0.18 | 16 |
| 20 ISL | 13.87 | 13.87 | 33.189 | 24.816 | 312.8 | 0.063 | 5.95 | 101.1 | 2.2 | 0.42 | 0.7 | 0.09 | 0.37 | 0.18 | 20 |
| 30 ISL | 13.74 | 13.74 | 33.188 | 24.842 | 310.6 | 0.095 | 5.90 | 100.0 | 2.3 | 0.43 | 0.9 | 0.11 | 0.29 | 0.17 | 30 |
| 1 35 | 13.70 | 13.70 | 33.190 | 24.852 | 309.8 | 0.110 | 5.87 | 99.4 | 2.4 | 0.44 | 1.0 | 0.12 | 0.25 | 0.16 | 35 |
| 50 ISL | 13.48 | 13.47 | 33.192 | 24.899 | 305.8 | 0.156 | 5.91 | 99.6 | 2.8 | 0.46 | 1.4 | 0.14 | 0.36 | 0.23 | 50 |
| 1 56 | 13.39 | 13.38 | 33.193 | 24.918 | 304.1 | 0.175 | 5.92 | 99.6 | 3.0 | 0.47 | 1.5 | 0.15 | 0.39 | 0.24 | 56 |
| 1 72 | 12.08 | 12.07 | 33.291 | 25.249 | 272.9 | 0.221 | 5.17 | 84.6 | 7.3 | 0.83 | 7.8 | 0.04 | 0.09 | 0.12 | 73 |
| 75 ISL | 11.88 | 11.87 | 33.304 | 25.297 | 268.4 | 0.229 | 5.05 | 82.3 | 8.0 | 0.89 | 8.8 | 0.03 | 0.09 | 0.12 | 76 |
| 1 80 | 11.56 | 11.55 | 33.331 | 25.377 | 260.8 | 0.242 | 4.86 | 78.7 | 9.3 | 0.98 | 10.3 | 0.02 | 0.09 | 0.13 | 81 |
| 1 90 | 10.97 | 10.96 | 33.426 | 25.558 | 243.8 | 0.267 | 4.47 | 71.5 | 12.6 | 1.17 | 13.7 | 0.01 | 0.05 | 0.08 | 91 |
| 100 ISL | 10.68 | 10.67 | 33.509 | 25.674 | 233.0 | 0.291 | 4.16 | 66.2 | 15.0 | 1.31 | 16.1 | 0.01 | 0.03 | 0.06 | 101 |
| 1 101 | 10.66 | 10.65 | 33.517 | 25.683 | 232.1 | 0.293 | 4.13 | 65.7 | 15.2 | 1.32 | 16.3 | 0.01 | 0.03 | 0.06 | 102 |
| 1 111 | 10.31 | 10.30 | 33.600 | 25.809 | 220.3 | 0.316 | 3.89 | 61.4 | 17.5 | 1.42 | 18.1 | 0.01 | 0.02 | 0.05 | 112 |
| 1 125 | 9.83 | 9.82 | 33.705 | 25.972 | 205.0 | 0.346 | 3.58 | 55.9 | 21.3 | 1.58 | 20.8 | 0.01 | 0.01 | 0.04 | 126 |
| 1 141 | 9.41 | 9.39 | 33.797 | 26.113 | 191.9 | 0.378 | 3.33 | 51.6 | 24.7 | 1.71 | 23.0 | 0.01 | 0.01 | 0.03 | 142 |
| 150 ISL | 9.27 | 9.25 | 33.836 | 26.166 | 186.9 | 0.395 | 3.19 | 49.3 | 26.3 | 1.77 | 23.9 | 0.01 | 0.01 | 0.03 | 151 |
| 1 159 | 9.16 | 9.14 | 33.871 | 26.212 | 182.8 | 0.411 | 3.07 | 47.3 | 27.8 | 1.83 | 24.6 | 0.00 | 0.00 | 0.03 | 160 |
| 1 180 | 8.82 | 8.80 | 33.954 | 26.331 | 171.8 | 0.449 | 2.84 | 43.4 | 31.5 | 1.93 | 26.2 | 0.00 | 0.00 | 0.03 | 181 |
| 200 ISL | 8.51 | 8.49 | 33.996 | 26.412 | 164.4 | 0.482 | 2.81 | 42.7 | 34.1 | 1.99 | 27.2 | 0.00 | 0.00 | 0.03 | 202 |
| 1 205 | 8.43 | 8.41 | 34.004 | 26.430 | 162.7 | 0.490 | 2.81 | 42.6 | 34.7 | 2.00 | 27.4 | 0.00 | 0.00 | 0.03 | 207 |
| 1 234 | 8.01 | 7.99 | 34.064 | 26.541 | 152.6 | 0.536 | 2.49 | 37.4 | 40.3 | 2.14 | 29.3 | 0.00 | 0.00 | 0.03 | 236 |
| 250 ISL | 7.87 | 7.85 | 34.075 | 26.570 | 150.0 | 0.560 | 2.35 | 35.2 | 42.4 | 2.20 | 30.1 | 0.00 | 0.00 | 0.03 | 252 |
| 1 274 | 7.68 | 7.65 | 34.081 | 26.603 | 147.2 | 0.596 | 2.14 | 31.9 | 45.2 | 2.28 | 31.1 | 0.00 | 0.00 | 0.03 | 276 |
| 300 ISL | 7.41 | 7.38 | 34.094 | 26.652 | 142.8 | 0.634 | 1.89 | 28.0 | 49.4 | 2.39 | 32.5 | 0.00 | 0.00 | 0.03 | 302 |
| 1 328 | 7.08 | 7.05 | 34.108 | 26.710 | 137.7 | 0.673 | 1.62 | 23.8 | 54.5 | 2.51 | 34.2 | 0.00 | 0.00 | 0.03 | 331 |
| 1 386 | 6.37 | 6.34 | 34.131 | 26.823 | 127.2 | 0.750 | 1.07 | 15.5 | 65.3 | 2.75 | 37.5 | 0.00 | 0.00 | 0.03 | 389 |
| 400 ISL | 6.24 | 6.20 | 34.138 | 26.846 | 125.2 | 0.767 | 0.97 | 14.0 | 67.5 | 2.80 | 38.1 | 0.00 | 0.00 | 0.03 | 403 |
| 1 449 | 5.86 | 5.82 | 34.169 | 26.919 | 118.6 | 0.827 | 0.69 | 9.9 | 74.8 | 2.93 | 39.8 | 0.00 | 0.00 | 0.03 | 453 |
| 500 ISL | 5.52 | 5.48 | 34.217 | 26.999 | 111.4 | 0.886 | 0.48 | 6.8 | 82.9 | 3.04 | 40.9 | 0.00 | 0.00 | 0.03 | 504 |
| 1 516 | 5.41 | 5.37 | 34.232 | 27.024 | 109.1 | 0.903 | 0.42 | 5.9 | 85.4 | 3.07 | 41.3 | 0.00 | 0.00 | 0.03 | 520 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 II0

| LATITUDE 31 19.4 N | LONGITUDE 123 44.5 W | DAY/MO/YR 28/01/88 | MESSINGER 0622 UTC | BOTTOM 3928 M | WIND 200 02 KT | SPEED | WAVES | WEATHER | BAROMETER 1017.1 MB | DRY 14.8 C | WET 14.3 C | CLOUD | AMT | TYPE | |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|--------|----------------|------------|------------------------|---------------|---------------|-------------|---------------|----------------|----------------|
| CAST DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | 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 | 14.60 | 14.60 | 33.258 | 24.716 | 321.8 | 0.000 | 5.94 | 102.5 | 2.1 | 0.35 | 0.2 | 0.00 | 0.26 | 0.09 | 0 |
| 10 ISL | 14.20 | 14.20 | 33.211 | 24.764 | 317.5 | 0.032 | 6.03 | 103.1 | 2.0 | 0.36 | 0.2 | 0.01 | 0.45 | 0.16 | 10 |
| 1 15 | 14.00 | 14.00 | 33.188 | 24.788 | 315.4 | 0.048 | 6.08 | 103.6 | 1.9 | 0.37 | 0.2 | 0.01 | 0.54 | 0.19 | 15 |
| 20 ISL | 13.95 | 13.95 | 33.192 | 24.802 | 314.2 | 0.064 | 6.09 | 103.6 | 1.9 | 0.37 | 0.2 | 0.01 | 0.59 | 0.23 | 20 |
| 30 ISL | 13.86 | 13.86 | 33.188 | 24.818 | 313.0 | 0.095 | 6.10 | 103.6 | 2.0 | 0.37 | 0.2 | 0.01 | 0.65 | 0.30 | 30 |
| 1 34 | 13.82 | 13.82 | 33.182 | 24.821 | 312.7 | 0.107 | 6.11 | 103.7 | 2.0 | 0.37 | 0.2 | 0.01 | 0.66 | 0.32 | 34 |
| 50 ISL | 13.79 | 13.78 | 33.186 | 24.831 | 312.3 | 0.157 | 6.08 | 103.1 | 2.1 | 0.38 | 0.3 | 0.02 | 0.60 | 0.34 | 50 |
| 1 54 | 13.79 | 13.78 | 33.187 | 24.832 | 312.3 | 0.170 | 6.06 | 102.8 | 2.1 | 0.39 | 0.3 | 0.02 | 0.58 | 0.34 | 54 |
| 1 70 | 13.71 | 13.70 | 33.183 | 24.845 | 311.4 | 0.220 | 5.95 | 100.7 | 2.2 | 0.41 | 0.7 | 0.09 | 0.40 | 0.27 | 71 |
| 75 ISL | 13.70 | 13.69 | 33.181 | 24.846 | 311.5 | 0.235 | 5.95 | 100.7 | 2.3 | 0.41 | 0.7 | 0.10 | 0.33 | 0.25 | 76 |
| 1 79 | 13.70 | 13.69 | 33.180 | 24.845 | 311.7 | 0.248 | 5.96 | 100.9 | 2.4 | 0.41 | 0.7 | 0.10 | 0.28 | 0.23 | 80 |
| 1 89 | 13.65 | 13.64 | 33.191 | 24.864 | 310.1 | 0.279 | 5.93 | 100.3 | 2.5 | 0.42 | 0.8 | 0.11 | 0.22 | 0.18 | 90 |
| 1 99 | 13.50 | 13.49 | 33.195 | 24.898 | 307.2 | 0.310 | 5.84 | 98.4 | 2.9 | 0.46 | 1.5 | 0.16 | 0.16 | 0.15 | 100 |
| 100 ISL | 13.39 | 13.38 | 33.198 | 24.923 | 304.9 | 0.313 | 5.79 | 97.4 | 3.2 | 0.49 | 1.9 | 0.15 | 0.15 | 0.15 | 101 |
| 1 110 | 12.18 | 12.17 | 33.265 | 25.211 | 277.5 | 0.342 | 5.18 | 85.0 | 6.7 | 0.79 | 7.2 | 0.04 | 0.09 | 0.14 | 111 |
| 1 124 | 11.29 | 11.27 | 33.461 | 25.528 | 247.5 | 0.379 | 4.60 | 74.1 | 11.1 | 1.07 | 12.4 | 0.02 | 0.07 | 0.09 | 125 |
| 125 ISL | 11.23 | 11.21 | 33.469 | 25.546 | 245.9 | 0.381 | 4.57 | 73.5 | 11.4 | 1.09 | 12.7 | 0.02 | 0.07 | 0.09 | 126 |
| 1 140 | 10.44 | 10.44 | 33.557 | 25.750 | 226.6 | 0.417 | 4.15 | 65.7 | 15.9 | 1.32 | 16.6 | 0.01 | 0.03 | 0.04 | 141 |
| 150 ISL | 10.00 | 9.98 | 33.639 | 25.893 | 213.1 | 0.439 | 3.90 | 61.1 | 19.0 | 1.46 | 19.0 | 0.01 | 0.02 | 0.03 | 151 |
| 1 159 | 9.66 | 9.64 | 33.714 | 26.008 | 202.3 | 0.457 | 3.71 | 57.7 | 21.6 | 1.57 | 20.8 | 0.01 | 0.01 | 0.03 | 160 |
| 1 179 | 9.19 | 9.17 | 33.829 | 26.174 | 186.8 | 0.496 | 3.38 | 52.1 | 26.2 | 1.72 | 23.5 | 0.01 | 0.01 | 0.03 | 180 |
| 200 ISL | 8.62 | 8.60 | 33.949 | 26.358 | 169.5 | 0.534 | 3.13 | 47.7 | 31.5 | 1.86 | 25.7 | 0.00 | 0.01 | 0.02 | 202 |
| 1 205 | 8.50 | 8.48 | 33.973 | 26.395 | 166.0 | 0.542 | 3.09 | 46.9 | 32.7 | 1.89 | 26.1 | 0.00 | 0.01 | 0.02 | 207 |
| 1 234 | 8.15 | 8.13 | 34.012 | 26.479 | 158.5 | 0.589 | 2.92 | 44.0 | 36.4 | 1.98 | 27.4 | 0.00 | 0.00 | 0.03 | 236 |
| 250 ISL | 7.93 | 7.90 | 34.036 | 26.531 | 153.8 | 0.614 | 2.67 | 40.0 | 39.8 | 2.09 | 28.8 | 0.00 | 0.00 | 0.03 | 252 |
| 1 272 | 7.63 | 7.60 | 34.068 | 26.600 | 147.5 | 0.647 | 2.26 | 33.7 | 44.9 | 2.25 | 30.8 | 0.00 | 0.00 | 0.03 | 274 |
| 300 ISL | 7.34 | 7.31 | 34.102 | 26.668 | 141.3 | 0.688 | 1.83 | 27.1 | 50.6 | 2.42 | 32.9 | 0.00 | 0.00 | 0.03 | 302 |
| 1 328 | 7.09 | 7.06 | 34.130 | 26.726 | 136.2 | 0.726 | 1.47 | 21.6 | 55.9 | 2.57 | 34.6 | 0.00 | 0.00 | 0. | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 28

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|------|-------|-------|-------|
| 33 29.0 N | 117 46.1 W | 25/01/88 | 1607 UTC | 66 M | 290 | 04 KT | 230 01 | 04 1 | 1023.7 MB | 14.5 C | 12.3 C | 3/8 | CS | | | | |
| 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.66 | 13.66 | 33.391 | 25.015 | 293.4 | 0.000 | | 6.18 | 104.7 | 3.6 | 0.40 | 0.4 | 0.02 | 1.47 | 0.35 | 0 |
| | 10 ISL | 13.61 | 13.61 | 33.390 | 25.024 | 292.7 | 0.029 | | 6.14 | 103.9 | 3.7 | 0.41 | 0.5 | 0.02 | 1.75 | 0.46 | 10 |
| 1 | 11 | 13.61 | 13.61 | 33.390 | 25.024 | 292.7 | 0.032 | | 6.14 | 103.9 | 3.7 | 0.41 | 0.5 | 0.02 | 1.78 | 0.47 | 11 |
| 1 | 20 | 13.33 | 13.33 | 33.412 | 25.098 | 286.0 | 0.058 | | 5.98 | 100.6 | 3.8 | 0.43 | 1.2 | 0.06 | 0.98 | 0.47 | 20 |
| 1 | 30 | 13.11 | 13.11 | 33.429 | 25.156 | 280.8 | 0.087 | | 5.57 | 93.3 | 5.2 | 0.59 | 3.9 | 0.18 | 0.52 | 0.35 | 30 |
| 1 | 41 | 12.30 | 12.29 | 33.546 | 25.404 | 257.3 | 0.116 | | 4.54 | 74.8 | 10.1 | 0.98 | 10.4 | 0.04 | 0.17 | 0.15 | 41 |
| | 50 ISL | 11.88 | 11.87 | 33.578 | 25.509 | 247.6 | 0.139 | | 4.23 | 69.1 | 12.6 | 1.25 | 12.7 | 0.11 | 0.12 | 0.21 | 50 |
| 1 | 51 | 11.83 | 11.82.. | 33.582 | 25.522 | 246.4 | 0.141 | | 4.19 | 68.4 | 12.9 | 1.28 | 13.0 | 0.12 | 0.11 | 0.22 | 51 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 30

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|--------|--------|-------|------|-------|-------|-------|-------|
| 33 25.1 N | 117 54.5 W | 25/01/88 | 1359 UTC | 628 M | 310 | 04 KT | | | 1022.6 MB | 14.5 C | 13.2 C | | | | | | |
| 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 | PSS 78 | 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 | 13.47 | 13.47 | 33.415 | 25.072 | 287.9 | 0.000 | | 6.30 | 106.3 | 3.6 | 0.37 | 0.3 | 0.01 | 1.14 | 0.35 | 0 |
| 1 | 1 | 13.47 | 13.47 | 33.415 | 25.072 | 288.0 | 0.003 | | 6.30 | 106.3 | 3.6 | 0.37 | 0.3 | 0.01 | 1.14 | 0.35 | 1 |
| 1 | 10 ISL | 13.39 | 13.39 | 33.413 | 25.087 | 286.8 | 0.029 | | 6.27 | 105.6 | 3.6 | 0.37 | 0.4 | 0.01 | 1.27 | 0.35 | 10 |
| 1 | 11 | 13.38 | 13.38 | 33.413 | 25.089 | 286.6 | 0.032 | | 6.27 | 105.6 | 3.6 | 0.37 | 0.4 | 0.01 | 1.28 | 0.35 | 11 |
| 1 | 20 ISL | 13.32 | 13.32 | 33.413 | 25.101 | 285.7 | 0.057 | | 6.10 | 102.6 | 3.8 | 0.39 | 0.7 | 0.04 | 2.17 | 0.54 | 20 |
| 1 | 21 | 13.31 | 13.31 | 33.413 | 25.103 | 285.5 | 0.060 | | 6.08 | 102.2 | 3.8 | 0.40 | 0.8 | 0.05 | 2.23 | 0.56 | 21 |
| 1 | 30 ISL | 13.20 | 13.20 | 33.420 | 25.131 | 283.1 | 0.086 | | 5.86 | 98.3 | 4.6 | 0.50 | 2.2 | 0.13 | 1.07 | 0.49 | 30 |
| 1 | 31 | 13.18 | 13.18 | 33.422 | 25.136 | 282.7 | 0.089 | | 5.84 | 97.9 | 4.7 | 0.51 | 2.4 | 0.14 | 0.91 | 0.48 | 31 |
| 1 | 41 | 12.81 | 12.80 | 33.456 | 25.236 | 273.4 | 0.116 | | 5.67 | 94.4 | 6.8 | 0.65 | 4.7 | 0.21 | 0.64 | 0.39 | 41 |
| 1 | 50 ISL | 12.37 | 12.36 | 33.490 | 25.348 | 262.9 | 0.141 | | 5.19 | 85.6 | 9.3 | 0.85 | 8.2 | 0.24 | 0.29 | 0.23 | 50 |
| 1 | 51 | 12.31 | 12.30 | 33.494 | 25.363 | 261.6 | 0.143 | | 5.13 | 84.5 | 9.6 | 0.88 | 8.6 | 0.24 | 0.26 | 0.21 | 51 |
| 1 | 60 | 11.64 | 11.63 | 33.551 | 25.533 | 245.6 | 0.166 | | 4.56 | 74.1 | 12.9 | 1.11 | 12.6 | 0.13 | 0.17 | 0.16 | 60 |
| 1 | 72 | 11.18 | 11.17 | 33.594 | 25.651 | 234.6 | 0.195 | | 4.14 | 66.6 | 15.2 | 1.27 | 15.3 | 0.05 | 0.10 | 0.12 | 73 |
| 1 | 75 ISL | 11.01 | 11.00 | 33.621 | 25.702 | 229.8 | 0.202 | | 4.04 | 64.8 | 16.0 | 1.31 | 16.1 | 0.04 | 0.08 | 0.11 | 76 |
| 1 | 86 | 10.38 | 10.37 | 33.733 | 25.900 | 211.1 | 0.226 | | 3.68 | 58.2 | 19.4 | 1.48 | 19.0 | 0.01 | 0.03 | 0.07 | 87 |
| 1 | 100 | 9.82 | 9.81 | 33.830 | 26.071 | 195.1 | 0.254 | | 3.20 | 50.0 | 24.6 | 1.71 | 22.5 | 0.01 | 0.01 | 0.06 | 101 |
| 1 | 120 | 9.55 | 9.54 | 33.905 | 26.175 | 185.6 | 0.293 | | 2.99 | 46.5 | 27.3 | 1.82 | 24.0 | 0.00 | 0.01 | 0.05 | 121 |
| 1 | 125 ISL | 9.49 | 9.48 | 33.924 | 26.199 | 183.4 | 0.302 | | 2.91 | 45.2 | 28.1 | 1.85 | 24.4 | 0.00 | 0.01 | 0.05 | 126 |
| 1 | 145 | 9.25 | 9.23 | 33.993 | 26.292 | 174.9 | 0.338 | | 2.61 | 40.3 | 31.6 | 1.97 | 26.1 | 0.00 | 0.01 | 0.04 | 146 |
| 1 | 150 ISL | 9.18 | 9.16 | 34.007 | 26.315 | 172.9 | 0.346 | | 2.57 | 39.6 | 32.4 | 1.99 | 26.4 | 0.00 | 0.01 | 0.04 | 151 |
| 1 | 176 | 8.83 | 8.81 | 34.071 | 26.421 | 163.2 | 0.390 | | 2.37 | 36.3 | 36.3 | 2.10 | 27.9 | 0.00 | 0.01 | 0.03 | 177 |
| 1 | 200 ISL | 8.63 | 8.61 | 34.122 | 26.492 | 156.9 | 0.428 | | 2.05 | 31.3 | 39.8 | 2.24 | 29.4 | 0.00 | 0.01 | 0.04 | 202 |
| 1 | 206 | 8.58 | 8.56 | 34.133 | 26.509 | 155.4 | 0.438 | | 1.97 | 30.0 | 40.7 | 2.27 | 29.7 | 0.00 | 0.01 | 0.04 | 208 |
| 1 | 235 | 8.26 | 8.24 | 34.167 | 26.584 | 148.6 | 0.482 | | 1.75 | 26.5 | 44.7 | 2.37 | 31.1 | 0.00* | | 0.00* | 237 |
| 1 | 250 ISL | 8.21 | 8.18 | 34.179 | 26.602 | 147.3 | 0.504 | | 1.64 | 24.8 | 45.9 | 2.41 | 31.5 | 0.00 | | 0.00 | 252 |
| 1 | 274 | 8.13 | 8.10 | 34.195 | 26.627 | 145.3 | 0.539 | | 1.46 | 22.0 | 47.8 | 2.48 | 32.2 | 0.00 | | 0.00 | 276 |
| 1 | 300 ISL | 7.82 | 7.79 | 34.213 | 26.687 | 139.9 | 0.576 | | 1.23 | 18.4 | 52.4 | 2.59 | 33.5 | 0.00 | | 0.00 | 302 |
| 1 | 328 | 7.47 | 7.44 | 34.233 | 26.754 | 133.8 | 0.615 | | 0.99 | 14.7 | 57.5 | 2.71 | 34.9 | 0.00 | | 0.00 | 331 |
| 1 | 386 | 7.29 | 7.25 | 34.266 | 26.806 | 129.7 | 0.691 | | 0.72 | 10.6 | 61.5 | 2.83 | 35.9 | 0.00 | | 0.00 | 389 |
| 1 | 400 ISL | 7.17 | 7.13 | 34.273 | 26.828 | 127.8 | 0.709 | | 0.65 | 9.6 | 63.2 | 2.86 | 36.4 | 0.00 | | 0.00 | 403 |
| 1 | 449 | 6.67 | 6.63 | 34.300 | 26.918 | 119.6 | 0.770 | | 0.44 | 6.4 | 70.7 | 2.99 | 38.2 | 0.00 | | 0.00 | 453 |
| 1 | 500 ISL | 6.15 | 6.11 | 34.332 | 27.012 | 111.0 | 0.828 | | 0.28 | 4.0 | 80.3 | 3.11 | 39.4 | 0.00 | | 0.00 | 504 |
| 1 | 515 | 6.00 | 5.95 | 34.342 | 27.039 | 108.4 | 0.845 | | 0.23 | 3.3 | 83.1 | 3.14 | 39.8 | 0.00 | | 0.00 | 519 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 15.2 W | 25/01/88 | 1023 UTC | 391 M | 360 | 08 KT | | | 1022.9 MB | 17.9 C | 11.9 C | | | | | | |
| 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 | PSS 78 | 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 | 13.32 | 13.32 | 33.452 | 25.130 | 282.3 | 0.000 | | 5.95 | 100.1 | 6.1 | 0.55 | 3.3 | 0.10 | 1.22 | 0.38 | 0 |
| 1 | 1 | 13.32 | 13.32 | 33.452 | 25.131 | 282.4 | 0.003 | | 5.95 | 100.1 | 6.1 | 0.55 | 3.3 | 0.10 | 1.22 | 0.38 | 1 |
| 1 | 10 ISL | 13.11 | 13.11 | 33.457 | 25.177 | 278.2 | 0.028 | | 5.94 | 99.5 | 6.7 | 0.58 | 3.7 | 0.12 | 1.32 | 0.43 | 10 |
| 1 | 11 | 13.08 | 13.08 | 33.458 | 25.183 | 277.6 | 0.031 | | 5.94 | 99.4 | 6.8 | 0.59 | 3.8 | 0.12 | 1.32 | 0.44 | 11 |
| 1 | 20 ISL | 12.92 | 12.92 | 33.462 | 25.219 | 274.5 | 0.056 | | 5.86 | 97.8 | 7.3 | 0.63 | 4.7 | 0.14 | 1.02 | 0.46 | 20 |
| 1 | 21 | 12.90 | 12.90 | 33.463 | 25.223 | 274.1 | 0.058 | | 5.85 | 97.6 | 7.4 | 0.64 | 4.8 | 0.14 | 0.98 | 0.46 | 21 |
| 1 | 30 | 12.70 | 12.70 | 33.469 | 25.267 | 270.1 | 0.083 | | 5.76 | 95.7 | 7.8 | 0.69 | 5.5 | 0.18 | 0.75 | 0.39 | 30 |
| 1 | 40 | 12.53 | 12.53 | 3 | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 37

| LATITUDE 23 11.1 N | LONGITUDE 118 23.2 W | DAY/MO/YR 25/01/88 | MESSENGER | | BOTTOM 1223 M | WIND 040 | SPEED 11 KT | WAVES | WEATHER | BAROMETER | | DRY 15.6 C | WET 13.7 C | CLOUD AMT | TYPE | | | | | | |
|-----------------------|-------------------------|-----------------------|-----------|--------|------------------|-------------|----------------|-------|---------|--------------------|----------------|---------------|---------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|
| | | | 0755 | UTC | | | | | | SALINITY PSS 78 | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L | OXY PCT | SIO3 UM/L | POA UM/L | N03 UM/L | N02 UM/L | CHL-A UG/L | PHAE0 UG/L |
| 1 0 | 13.55 | 13.55 | 33.435 | 25.071 | 288.0 | 0.000 | 6.01 | 101.6 | 4.9 | 0.49 | 2.2 | 0.10 | 1.11 | 0.36 | 0 | | | | | | |
| 1 10 | 13.43 | 13.43 | 33.437 | 25.097 | 285.8 | 0.029 | 6.00" | 101.2 | 4.9 | 0.49 | 2.2 | 0.10 | 1.11 | 0.41 | 10 | | | | | | |
| 1 20 | 13.05 | 13.05 | 33.449 | 25.183 | 277.9 | 0.057 | 5.77 | 96.5 | 5.8 | 0.60 | 4.0 | 0.21 | 0.84 | 0.45 | 20 | | | | | | |
| 1 30 | 12.75 | 12.75 | 33.457 | 25.248 | 272.0 | 0.084 | 5.62 | 93.4 | 6.9 | 0.70 | 5.5 | 0.32 | 0.49 | 0.38 | 30 | | | | | | |
| 1 40 | 12.61 | 12.60 | 33.468 | 25.284 | 268.8 | 0.111 | 5.69 | 94.3 | 7.5 | 0.72 | 5.9 | 0.24 | 0.53 | 0.35 | 40 | | | | | | |
| 50 ISL | 12.55 | 12.54 | 33.472 | 25.299 | 267.6 | 0.138 | 5.63 | 93.2 | 7.7 | 0.75 | 6.3 | 0.26 | 0.53 | 0.39 | 50 | | | | | | |
| 1 51 | 12.55 | 12.54 | 33.472 | 25.299 | 267.6 | 0.141 | 5.62 | 93.0 | 7.7 | 0.75 | 6.3 | 0.26 | 0.53 | 0.39 | 51 | | | | | | |
| 1 60 | 12.49 | 12.48 | 33.475 | 25.313 | 266.5 | 0.165 | 5.58 | 92.3 | 7.9 | 0.77 | 6.5 | 0.27 | 0.48 | 0.33 | 60 | | | | | | |
| 1 71 | 12.38 | 12.37 | 33.484 | 25.342 | 264.1 | 0.194 | 5.57 | 91.9 | 8.3 | 0.79 | 6.9 | 0.29 | 0.41 | 0.37 | 72 | | | | | | |
| 75 ISL | 12.16 | 12.15 | 33.505 | 25.400 | 258.6 | 0.205 | 5.29 | 86.9 | 9.5 | 0.88 | 8.5 | 0.24 | 0.32 | 0.31 | 76 | | | | | | |
| 1 86 | 11.38 | 11.37 | 33.588 | 25.610 | 238.8 | 0.232 | 4.41 | 71.2 | 13.7 | 1.16 | 13.6 | 0.09 | 0.08 | 0.12 | 87 | | | | | | |
| 1 100 | 10.53 | 10.52 | 33.698 | 25.847 | 216.5 | 0.264 | 3.96 | 62.8 | 17.7 | 1.38 | 17.4 | 0.04 | 0.04 | 0.09 | 101 | | | | | | |
| 1 121 | 10.16 | 10.15 | 33.759 | 25.959 | 206.3 | 0.308 | 3.76 | 59.2 | 20.2 | 1.48 | 19.2 | 0.03 | 0.03 | 0.07 | 122 | | | | | | |
| 125 ISL | 10.05 | 10.04 | 33.774 | 25.989 | 203.5 | 0.316 | 3.69 | 58.0 | 21.0 | 1.52 | 19.8 | 0.03 | 0.03 | 0.07 | 126 | | | | | | |
| 1 146 | 9.45 | 9.43 | 33.861 | 26.157 | 187.8 | 0.357 | 3.29 | 51.0 | 25.7 | 1.72 | 23.1 | 0.01 | 0.01 | 0.05 | 147 | | | | | | |
| 150 ISL | 9.35 | 9.33 | 33.880 | 26.188 | 184.9 | 0.365 | 3.25 | 50.3 | 26.5 | 1.75 | 23.5 | 0.01 | 0.01 | 0.05 | 151 | | | | | | |
| 1 176 | 8.85 | 8.83 | 33.995 | 26.358 | 169.2 | 0.411 | 2.97 | 45.5 | 31.6 | 1.92 | 25.7 | 0.01 | 0.00 | 0.04 | 177 | | | | | | |
| 200 ISL | 8.62 | 8.60 | 34.077 | 26.458 | 160.0 | 0.450 | 2.43 | 37.0 | 36.9 | 2.11 | 28.0 | 0.00 | 0.00 | 0.04 | 202 | | | | | | |
| 1 207 | 8.58 | 8.56 | 34.097 | 26.480 | 158.1 | 0.462 | 2.25 | 34.3 | 38.4 | 2.17 | 28.7 | 0.00 | 0.00 | 0.04 | 209 | | | | | | |
| 1 235 | 8.39 | 8.37 | 34.169 | 26.567 | 150.4 | 0.505 | 1.63 | 24.7 | 43.4 | 2.40 | 31.1 | 0.00 | r | 0.23 | | | | | | | |
| 250 ISL | 8.28 | 8.25 | 34.189 | 26.599 | 147.5 | 0.527 | 1.48 | 22.4 | 45.2 | 2.47 | 31.8 | 0.00 | | 0.25 | | | | | | | |
| 1 273 | 8.11 | 8.08 | 34.208 | 26.640 | 1AA.0 | 0.561 | 1.3A | 20.2 | 47.7 | 2.5A | 32.5 | 0.00 | | 0.27 | | | | | | | |
| 300 ISL | 7.86 | 7.83 | 34.232 | 26.696 | 139.0 | 0.599 | 1.11 | 16.6 | 51.8 | 2.64 | 33.7 | 0.00 | | 0.30 | | | | | | | |
| 1 327 | 7.61 | 7.58 | 34.251 | 26.748 | 134.5 | 0.636 | 0.90 | 13.4 | 55.9 | 2.73 | 34.8 | 0.00 | | 0.33 | | | | | | | |
| 1 385 | 7.15 | 7.11 | 34.271 | 26.829 | 127.4 | 0.712 | 0.66 | 9.7 | 62.7 | 2.87 | 36.5 | 0.00 | | 0.38 | | | | | | | |
| 400 ISL | 7.02 | 6.98 | 34.277 | 26.852 | 125.4 | 0.731 | 0.61 | 9.0 | 64.4 | 2.90 | 36.9 | 0.00 | | 0.40 | | | | | | | |
| 1 449 | 6.62 | 6.58 | 34.297 | 26.922 | 119.1 | 0.791 | 0.45 | 6.6 | 70.5 | 3.00 | 38.2 | 0.00 | | 0.45 | | | | | | | |
| 500 ISL | 6.24 | 6.20 | 34.324 | 26.994 | 112.7 | 0.850 | 0.32 | 4.6 | 78.4 | 3.09 | 39.2 | 0.00 | | 0.50 | | | | | | | |
| 1 515 | 6.13 | 6.08 | 34.332 | 27.014 | 110.9 | 0.867 | 0.28 | 4.0 | 80.7 | 3.12 | 39.5 | 0.00 | | 0.519 | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 45

| LATITUDE 32 55.1 N | LONGITUDE 118 55.9 W | DAY/MO/YR 25/01/88 | MESSENGER | | BOTTOM 1724 M | WIND 330 | SPEED 06 KT | WAVES | WEATHER | BAROMETER | | DRY 14.8 C | WET 1A.0 C | CLOUD AMT | TYPE | | | | | | |
|-----------------------|-------------------------|-----------------------|-----------|--------|------------------|-------------|----------------|-------|---------|--------------------|----------------|---------------|---------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|
| | | | 0325 | UTC | | | | | | SALINITY PSS 78 | 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 |
| 1 0 | 13.58 | 13.58 | 33.448 | 25.075 | 287.6 | 0.000 | 5.90 | 99.8 | 5.2 | 0.54 | 3.1 | 0.12 | 0.81 | 0.27 | 0 | | | | | | |
| 1 10 | 13.29 | 13.29 | 33.444 | 25.131 | 282.6 | 0.029 | 5.87 | 98.7 | 5.4 | 0.55 | 3.2 | 0.14 | 0.75 | 0.31 | 10 | | | | | | |
| 1 20 | 13.17 | 13.17 | 33.444 | 25.155 | 280.6 | 0.057 | 5.83 | 97.8 | 5.5 | 0.58 | 3.6 | 0.16 | 0.73 | 0.35 | 20 | | | | | | |
| 1 30 | 13.11 | 13.11 | 33.444 | 25.167 | 279.6 | 0.085 | 5.77 | 96.6 | 5.6 | 0.62 | 4.1 | 0.19 | 0.81 | 0.40 | 30 | | | | | | |
| 1 40 | 13.00 | 12.99 | 33.446 | 25.191 | 277.7 | 0.113 | 5.91 | 98.7 | 5.9 | 0.61 | 4.1 | 0.16 | 1.17 | 0.46 | 40 | | | | | | |
| 1 49 | 13.00 | 12.99 | 33.458 | 25.200 | 277.0 | 0.138 | 5.77 | 96.4 | 6.4 | 0.63 | 4.5 | 0.16 | 0.86 | 0.43 | 49 | | | | | | |
| 50 ISL | 13.00 | 12.99 | 33.459 | 25.201 | 277.0 | 0.140 | 5.77 | 96.4 | 6.4 | 0.63 | 4.5 | 0.16 | 0.86 | 0.43 | 50 | | | | | | |
| 1 60 | 12.92 | 12.91 | 33.465 | 25.222 | 275.3 | 0.168 | 5.75 | 95.9 | 6.5 | 0.64 | 4.7 | 0.18 | 0.84 | 0.42 | 60 | | | | | | |
| 1 70 | 12.68 | 12.67 | 33.471 | 25.274 | 270.6 | 0.195 | 5.53 | 91.8 | 7.5 | 0.73 | 6.1 | 0.23 | 0.39 | 0.27 | 71 | | | | | | |
| 75 ISL | 12.48 | 12.47 | 33.479 | 25.319 | 266.4 | 0.209 | 5.40 | 89.3 | 8.3 | 0.79 | 7.1 | 0.23 | 0.27 | 0.23 | 76 | | | | | | |
| 1 84 | 12.00 | 11.99 | 33.514 | 25.438 | 255.3 | 0.232 | 5.06 | 82.8 | 10.5 | 0.93 | 9.7 | 0.22 | 0.16 | 0.18 | 85 | | | | | | |
| 1 99 | 10.83 | 10.82 | 33.665 | 25.769 | 224.0 | 0.268 | 4.02 | 64.2 | 17.7 | 1.34 | 16.7 | 0.09 | 0.07 | 0.10 | 100 | | | | | | |
| 100 ISL | 10.77 | 10.76 | 33.673 | 25.786 | 222.4 | 0.270 | 3.97 | 63.3 | 18.1 | 1.36 | 17.0 | 0.08 | 0.07 | 0.10 | 101 | | | | | | |
| 1 119 | 9.97 | 9.96 | 33.801 | 26.023 | 200.0 | 0.310 | 3.35 | 52.5 | 24.2 | 1.64 | 21.5 | 0.02 | 0.03 | 0.07 | 120 | | | | | | |
| 125 ISL | 9.82 | 9.81 | 33.832 | 26.073 | 195.5 | 0.322 | 3.22 | 50.3 | 25.7 | 1.70 | 22.4 | 0.02 | 0.03 | 0.07 | 126 | | | | | | |
| 1 142 | 9.48 | 9.46 | 33.902 | 26.184 | 185.2 | 0.355 | 2.99 | 46.4 | 29.1 | 1.81 | 24.2 | 0.02 | 0.02 | 0.06 | 143 | | | | | | |
| 150 ISL | 9.29 | 9.27 | 33.922 | 26.230 | 180.9 | 0.369 | 3.02 | 46.7 | 29.7 | 1.82 | 24.6 | 0.02 | 0.02 | 0.05 | 151 | | | | | | |
| 1 173 | 8.80 | 8.78 | 33.975 | 26.350 | 169.8 | 0.410 | 3.08 | 47.1 | 31.4 | 1.87 | 25.6 | 0.01 | 0.01 | 0.04 | 174 | | | | | | |
| 200 ISL | 8.51 | 8.49 | 34.069 | 26.469 | 159.0 | 0.454 | 2.43 | 36.9 | 38.0 | 2.10 | 28.5 | 0.01 | 0.01 | 0.03 | 202 | | | | | | |
| 1 203 | 8.48 | 8.46 | 34.080 | 26.482 | 157.8 | 0.459 | 2.34 | 35.5 | 38.9 | 2.13 | 28.9 | 0.01 | 0.01 | 0.03 | 205 | | | | | | |
| 1 231 | 8.16 | 8.14 | 34.156 | 26.591 | 147.9 | 0.502 | 1.71 | 25.8 | 45.8 | 2.36 | 31.6 | 0.01 | | 0.23 | | | | | | | |
| 250 ISL | 8.08 | 8.05 | 34.178 | 26.620 | 145.4 | 0.529 | 1.54 | 23.2 | 47.6 | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 53

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|------|-------|-------|-------|
| 32 39.3 N | 119 28.6 W | 24/01/88 | 2301 UTC | 1334 M | 350 | 08 KT | 330 03 | 06 | 1 | 1020.9 MB | 16.8 C | 15.5 C | 3/8 | CI | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | | M | DEG C | PSS 78 | THETA | | ML/L | | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.50 | 13.50 | 33.453 | 25.095 | 285.7 | 0.000 | 5.93 | 100.1 | 4.8 | 0.52 | 2.9 | 0.11 | 0.82 | 0.27 | 0 | |
| 1 | 1 | 13.50 | 13.50 | 33.453 | 25.095 | 285.7 | 0.003 | 5.93 | 100.1 | 4.8 | 0.52 | 2.9 | 0.11 | 0.82 | 0.27 | 1 | |
| 1 | 10 ISL | 13.44 | 13.44 | 33.453 | 25.107 | 284.8 | 0.029 | 5.90 | 99.5 | 4.9 | 0.53 | 3.1 | 0.12 | 0.79 | 0.28 | 10 | |
| 1 | 15 | 13.38 | 13.38 | 33.453 | 25.120 | 283.8 | 0.043 | 5.89 | 99.2 | 5.0 | 0.54 | 3.2 | 0.12 | 0.78 | 0.28 | 15 | |
| 1 | 20 ISL | 13.30 | 13.30 | 33.453 | 25.136 | 282.4 | 0.057 | 5.91 | 99.4 | 5.2 | 0.55 | 3.3 | 0.12 | 0.87 | 0.30 | 20 | |
| 1 | 30 | 13.14 | 13.14 | 33.455 | 25.170 | 279.4 | 0.085 | 5.95 | 99.7 | 5.6 | 0.57 | 3.6 | 0.13 | 1.08 | 0.36 | 30 | |
| 1 | 40 | 13.07 | 13.06 | 33.457 | 25.185 | 278.2 | 0.113 | 5.93 | 99.2 | 5.8 | 0.59 | 3.9 | 0.14 | 1.20 | 0.48 | 40 | |
| 1 | 50 | 12.88 | 12.87 | 33.466 | 25.230 | 274.2 | 0.140 | 5.82 | 97.0 | 6.7 | 0.62 | 4.7 | 0.18 | 0.94 | 0.43 | 50 | |
| 1 | 60 | 12.77 | 12.76 | 33.461 | 25.248 | 272.8 | 0.168 | 5.60 | 93.1 | 7.2 | 0.64 | 5.6 | 0.25 | 0.38 | 0.32 | 60 | |
| 1 | 71 | 12.54 | 12.53 | 33.473 | 25.303 | 267.8 | 0.198 | 5.43 | 89.9 | 8.1 | 0.77 | 6.7 | 0.25 | 0.23 | 0.22 | 72 | |
| 1 | 75 ISL | 12.16 | 12.15 | 33.503 | 25.399 | 258.7 | 0.208 | 5.09 | 83.6 | 10.1 | 0.89 | 8.8 | 0.19 | 0.16 | 0.18 | 76 | |
| 1 | 80 | 11.65 | 11.64 | 33.548 | 25.529 | 246.4 | 0.221 | 4.64 | 75.4 | 12.7 | 1.04 | 11.7 | 0.11 | 0.09 | 0.13 | 81 | |
| 1 | 95 | 11.09 | 11.08 | 33.613 | 25.682 | 232.1 | 0.257 | 4.21 | 67.6 | 15.7 | 1.24 | 15.2 | 0.05 | 0.06 | 0.10 | 96 | |
| 1 | 100 ISL | 10.67 | 10.66 | 33.674 | 25.804 | 220.6 | 0.268 | 3.96 | 63.0 | 18.3 | 1.36 | 17.3 | 0.04 | 0.05 | 0.09 | 101 | |
| 1 | 110 | 9.87 | 9.86 | 33.799 | 26.038 | 198.4 | 0.289 | 3.49 | 54.6 | 23.5 | 1.58 | 21.3 | 0.02 | 0.02 | 0.06 | 111 | |
| 1 | 124 | 9.51 | 9.50 | 33.864 | 26.149 | 188.1 | 0.316 | 3.23 | 50.2 | 26.3 | 1.72 | 23.4 | 0.01 | 0.01 | 0.05 | 125 | |
| 1 | 125 ISL | 9.49 | 9.48 | 33.867 | 26.155 | 187.6 | 0.318 | 3.22 | 50.0 | 26.4 | 1.73 | 23.5 | 0.01 | 0.01 | 0.05 | 126 | |
| 1 | 150 | 9.16 | 9.14 | 33.909 | 26.241 | 179.8 | 0.364 | 3.11 | 47.9 | 28.9 | 1.80 | 24.8 | 0.01 | 0.01 | 0.04 | 151 | |
| 1 | 175 | 8.84 | 8.82 | 33.976 | 26.345 | 170.4 | 0.408 | 2.92 | 44.7 | 32.3 | 1.90 | 26.2 | 0.01 | 0.00 | 0.04 | 176 | |
| 1 | 200 ISL | 8.59 | 8.57 | 34.030 | 26.426 | 163.1 | 0.449 | 2.64 | 40.2 | 35.6 | 2.01 | 27.7 | 0.01 | 0.00 | 0.04 | 202 | |
| 1 | 204 | 8.55 | 8.53 | 34.038 | 26.439 | 162.0 | 0.456 | 2.59 | 39.4 | 36.2 | 2.03 | 28.0 | 0.01 | 0.00 | 0.04 | 206 | |
| 1 | 234 | 8.16 | 8.14 | 34.085 | 26.535 | 153.2 | 0.503 | 2.28 | 34.4 | 41.7 | 2.18 | 30.1 | 0.01 | 0.01 | 0.01 | 236 | |
| 1 | 250 ISL | 8.05 | 8.02 | 34.112 | 26.573 | 149.9 | 0.527 | 2.06 | 31.0 | 44.1 | 2.27 | 31.0 | 0.01 | 0.01 | 0.01 | 252 | |
| 1 | 272 | 7.93 | 7.90 | 34.147 | 26.619 | 145.9 | 0.560 | 1.76 | 26.4 | 47.1 | 2.38 | 32.2 | 0.01 | 0.01 | 0.01 | 274 | |
| 1 | 300 ISL | 7.73 | 7.70 | 34.185 | 26.678 | 140.6 | 0.600 | 1.42 | 21.2 | 51.4 | 2.51 | 33.6 | 0.01 | 0.01 | 0.01 | 302 | |
| 1 | 326 | 7.53 | 7.50 | 34.212 | 26.728 | 136.2 | 0.636 | 1.17 | 17.4 | 55.2 | 2.62 | 34.8 | 0.01 | 0.01 | 0.01 | 329 | |
| 1 | 385 | 7.09 | 7.05 | 34.236 | 26.810 | 129.2 | 0.714 | 0.87 | 12.8 | 61.9 | 2.76 | 36.6 | 0.00 | 0.00 | 0.00 | 388 | |
| 1 | 400 ISL | 6.99 | 6.95 | 34.247 | 26.832 | 127.2 | 0.733 | 0.77 | 11.3 | 63.7 | 2.80 | 37.1 | 0.00 | 0.00 | 0.00 | 403 | |
| 1 | 448 | 6.66 | 6.62 | 34.286 | 26.908 | 120.5 | 0.793 | 0.49 | 7.1 | 69.6 | 2.94 | 38.7 | 0.00 | 0.00 | 0.00 | 452 | |
| 1 | 500 ISL | 6.30 | 6.25 | 34.312 | 26.977 | 114.4 | 0.854 | 0.36 | 5.2 | 75.4 | 3.03 | 39.9 | 0.01 | 0.01 | 0.01 | 504 | |
| 1 | 515 | 6.20 | 6.15 | 34.320 | 26.996 | 112.7 | 0.871 | 0.32 | 4.6 | 77.1 | 3.05 | 40.3 | 0.01 | 0.01 | 0.01 | 519 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-------|---------|-----------|------|-----------|--------|--------|------|-------|-------|-------|
| 32 25.1 N | 119 57.6 W | 24/01/88 | 1811 UTC | 881 M | 100 | 05 KT | 3 40 | 03 | 07 | 1 | 1023.1 MB | 14.8 C | 14.1 C | 3/8 | CI | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN | HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| | | M | DEG C | PSS 78 | THETA | | ML/L | | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.87 | 13.87 | 33.349 | 24.939 | 300.6 | 0.000 | 5.94 | 101.0 | 3.2 | 0.44 | 1.5 | 0.05 | 0.72 | 0.16 | 0 | |
| 1 | 10 ISL | 13.86 | 13.86 | 33.349 | 24.941 | 300.6 | 0.030 | 5.95 | 101.2 | 3.3 | 0.44 | 1.5 | 0.05 | 0.69 | 0.22 | 10 | |
| 1 | 15 | 13.85 | 13.85 | 33.349 | 24.943 | 300.6 | 0.045 | 5.95 | 101.9 | 3.3 | 0.44 | 1.5 | 0.05 | 0.68 | 0.25 | 15 | |
| 1 | 20 ISL | 13.84 | 13.84 | 33.348 | 24.945 | 300.6 | 0.060 | 5.94 | 100.9 | 3.4 | 0.44 | 1.5 | 0.05 | 0.68 | 0.25 | 20 | |
| 1 | 29 | 13.83 | 13.83 | 33.345 | 24.945 | 300.8 | 0.087 | 5.91 | 100.4 | 3.6 | 0.45 | 1.6 | 0.05 | 0.69 | 0.26 | 29 | |
| 1 | 30 ISL | 13.83 | 13.83 | 33.345 | 24.945 | 300.8 | 0.090 | 5.91 | 100.4 | 3.6 | 0.45 | 1.6 | 0.05 | 0.69 | 0.26 | 30 | |
| 1 | 40 | 13.82 | 13.81 | 33.344 | 24.947 | 301.0 | 0.120 | 5.90 | 100.2 | 3.4 | 0.45 | 1.6 | 0.06 | 0.69 | 0.26 | 40 | |
| 1 | 50 | 13.79 | 13.78 | 33.342 | 24.952 | 300.8 | 0.150 | 5.87 | 99.6 | 3.2 | 0.47 | 1.8 | 0.06 | 0.61 | 0.26 | 50 | |
| 1 | 59 | 13.79 | 13.78 | 33.351 | 24.959 | 300.4 | 0.177 | 5.85 | 99.3 | 3.4 | 0.47 | 1.8 | 0.07 | 0.54 | 0.22 | 59 | |
| 1 | 70 | 13.76 | 13.75 | 33.358 | 24.970 | 299.5 | 0.210 | 5.80 | 98.4 | 3.4 | 0.48 | 2.0 | 0.08 | 0.40 | 0.21 | 71 | |
| 1 | 75 ISL | 12.94 | 12.93 | 33.411 | 25.177 | 280.0 | 0.225 | 5.17 | 86.3 | 6.9 | 0.75 | 6.7 | 0.08 | 0.27 | 0.19 | 76 | |
| 1 | 80 | 11.98 | 11.97 | 33.483 | 25.417 | 257.1 | 0.238 | 4.48 | 73.3 | 11.0 | 1.06 | 12.1 | 0.07 | 0.14 | 0.17 | 81 | |
| 1 | 94 | 10.48 | 10.47 | 33.619 | 25.794 | 221.4 | 0.272 | 5.78 | 59.9 | 17.5 | 1.43 | 18.8 | 0.01 | 0.04 | 0.09 | 95 | |
| 1 | 100 ISL | 10.19 | 10.18 | 33.655 | 25.872 | 214.0 | 0.285 | 5.64 | 57.3 | 19.0 | 1.51 | 20.1 | 0.01 | 0.03 | 0.07 | 101 | |
| 1 | 109 | 9.96 | 9.95 | 33.696 | 25.943 | 207.5 | 0.304 | 5.31 | 55.0 | 20.7 | 1.58 | 21.2 | 0.01 | 0.02 | 0.06 | I10 | |
| 1 | 124 | 9.62 | 9.61 | 33.764 | 26.053 | 197.3 | 0.334 | 5.25 | 50.6 | 23.7 | 1.71 | 23.4 | 0.01 | 0.01 | 0.04 | 125 | |
| 1 | 125 ISL | 9.60 | 9.59 | 33.768 | 26.059 | 196.7 | 0.336 | 5.24 | 50.4 | 23.8 | 1.72 | 23.5 | 0.01 | 0.01 | 0.04 | 126 | |
| 1 | 149 | 9.18 | 9.16 | 33.846 | 26.189 | 184.8 | 0.382 | 3.08 | 47.5 | 26.7 | 1.82 | 25.2 | 0.00 | 0.01 | 0.05 | 150 | |
| 1 | 150 ISL | 9.17 | 9.15 | 33.850 | 26.193 | 184.4 | 0.384 | 3.07 | 47.3 | 26.8 | 1.82 | 25.2 | 0.00 | 0.01 | 0.05 | 151 | |
| 1 | 174 | 8.84 | 8.82 | 33.935 | 26.313 | 173.4 | 0.427 | 2.94 | 45.0 | 30.1 | 1.90 | 26.4 | 0.00 | 0.00 | 0.03 | 175 | |
| 1 | 200 ISL | 8.42 | 8.40 | 34.006 | 26.433 | 162.3 | 0.470 | 2.70 | 40.9 | 34.5 | 2.00 | 28.1 | 0.00 | 0.00 | 0.03 | 202 | |
| 1 | 204 | 8.35 | 8.33 | 34.014 | 26.451 | 160.8 | 0.477 | 2.67 | 40.4 | 35.2 | 2.02 | 28.4 | 0.00 | 0.00 | 0.03 | 206 | |
| 1 | 231 | 7.99 | 7.97 | 34.043 | 26.527 | 153.8 | 0.519 | 2.56 | 38.4 | 38.9 | 2.12 | 29.5 | 0.00 | 0.00 | 0.03 | 233 | |
| 1 | 250 ISL | 7.83 | 7.81 | 34.051 | 26.557 | 151.2 | 0.548 | 2.49 | 37.2 | 40.6 | 2.16 | 30.1 | 0.00 | 0.00 | 0.03 | 252 | |
| 1 | 273 | 7.65 | 7.62 | 34.055 | 26.587 | 148.7 | 0.583 | 2.37 | 35.3 | 42.9 | 2.21 | 31.0 | 0.00 | 0.00 | 0.03 | 275 | |
| 1 | 300 ISL | 7.25 | 7.22 | 34.059 | 26.647 | 14 | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 70

| LATITUDE 32 5.1 N | LONGITUDE 120 38.5 W | DAY/MO/YR 24/01/88 | MESSENGER | | BOTTOM 3733 M | WIND 320 | SPEED 11 KT | WAVES | | WEATHER | BAROMETER | | DRY 13.6 C | WET 13.4 C | CLOUD AMT | TYPE | | |
|----------------------|-------------------------|-----------------------|-----------|----------|------------------|-------------|----------------|-------|-------|---------|-----------|------|---------------|---------------|-----------|-------|-------|-------|
| | | | 1237 | UTC | | | | SVA | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | D.BAR | | |
| M | DEG C | DEG C | PSS 78 | THETA | | | | | | | | | | | | | | |
| 1 | 0 ISL | 13.87 | 13.87 | 33.381 | 24.964 | 298.2 | 0.000 | 5.94 | 101.0 | 3.2 | 0.45 | 1.5 | 0.05 | 0.63 | 0.20 | 0.20 | 0 | |
| 1 | 1 | 13.87 | 13.87 | 33.381 | 24.964 | 298.2 | 0.003 | 5.94 | 101.0 | 3.2 | 0.45 | 1.5 | 0.05 | 0.63 | 0.20 | 0.20 | 1 | |
| 1 | 10 ISL | 13.87 | 13.87 | 33.381 | 24.964 | 298.5 | 0.030 | 5.95 | 101.2 | 3.3 | 0.45 | 1.5 | 0.05 | 0.62 | 0.21 | 0.22 | 16 | |
| 1 | 16 | 13.87 | 13.87 | 33.381 | 24.964 | 298.6 | 0.048 | 5.95 | 101.2 | 3.4 | 0.45 | 1.5 | 0.05 | 0.61 | 0.22 | 0.23 | 20 | |
| 1 | 20 ISL | 13.87 | 13.87 | 33.382 | 24.965 | 298.7 | 0.060 | 5.95 | 101.2 | 3.4 | 0.46 | 1.5 | 0.05 | 0.62 | 0.23 | 0.23 | 20 | |
| 1 | 30 ISL | 13.85 | 13.85 | 33.382 | 24.969 | 298.5 | 0.090 | 5.93 | 100.8 | 3.4 | 0.47 | 1.5 | 0.05 | 0.65 | 0.24 | 0.24 | 30 | |
| 1 | 31 | 13.85 | 13.85 | 33.382 | 24.969 | 298.6 | 0.093 | 5.93 | 100.8 | 3.4 | 0.47 | 1.5 | 0.05 | 0.65 | 0.24 | 0.24 | 31 | |
| 1 | 41 | 13.82 | 13.81 | 33.391 | 24.983 | 297.5 | 0.122 | 5.92 | 100.6 | 3.3 | 0.46 | 1.8 | 0.06 | 0.79 | 0.31 | 0.31 | 41 | |
| 1 | 50 ISL | 13.81 | 13.80 | 33.396 | 24.989 | 297.2 | 0.149 | 5.84 | 99.2 | 3.4 | 0.48 | 2.0 | 0.07 | 0.65 | 0.29 | 0.29 | 50 | |
| 1 | 51 | 13.81 | 13.80 | 33.397 | 24.990 | 297.2 | 0.152 | 5.83 | 99.0 | 3.4 | 0.48 | 2.0 | 0.07 | 0.63 | 0.29 | 0.29 | 51 | |
| 1 | 61 | 13.81 | 13.80 | 33.401 | 24.993 | 297.1 | 0.182 | 5.84 | 99.2 | 3.4 | 0.48 | 2.1 | 0.06 | 0.58 | 0.28 | 0.28 | 61 | |
| 1 | 70 | 13.77 | 13.76 | 33.404 | 25.004 | 296.4 | 0.208 | 5.84 | 99.1 | 3.6 | 0.49 | 2.2 | 0.07 | 0.57 | 0.27 | 0.27 | 71 | |
| 1 | 75 ISL | 13.77 | 13.76 | 33.404 | 25.004 | 296.5 | 0.223 | 5.82 | 98.8 | 3.8 | 0.49 | 2.2 | 0.07 | 0.53 | 0.26 | 0.26 | 76 | |
| 1 | 80 | 13.76 | 13.75 | 33.404 | 25.006 | 296.4 | 0.238 | 5.80 | 98.4 | 4.1 | 0.49 | 2.3 | 0.07 | 0.47 | 0.25 | 0.25 | 81 | |
| 1 | 95 | 13.64 | 13.63 | 33.408 | 25.034 | 294.1 | 0.282 | 5.69 | 96.3 | 4.4 | 0.54 | 2.9 | 0.08 | 0.34 | 0.20 | 0.20 | 96 | |
| 1 | 100 ISL | 12.99 | 12.98 | 33.430 | 25.182 | 280.1 | 0.297 | 5.27 | 88.0 | 6.8 | 0.73 | 6.3 | 0.07 | 0.26 | 0.17 | 0.17 | 101 | |
| 1 | 110 | 11.54 | 11.53 | 33.505 | 25.517 | 248.3 | 0.323 | 4.35 | 70.5 | 12.5 | 1.15 | 13.7 | 0.05 | 0.10 | 0.11 | 0.11 | 111 | |
| 1 | 125 | 10.47 | 10.46 | 33.618 | 25.796 | 221.9 | 0.358 | 3.77 | 59.7 | 17.7 | 1.44 | 18.8 | 0.01 | 0.04 | 0.08 | 0.08 | 126 | |
| 1 | 150 | 9.58 | 9.56 | 33.826 | 26.108 | 192.6 | 0.410 | 3.17 | 49.3 | 25.1 | 1.73 | 23.6 | 0.01 | 0.01 | 0.05 | 0.05 | 151 | |
| 1 | 175 | 8.80 | 8.78 | 33.923 | 26.309 | 173.7 | 0.456 | 2.99 | 45.7 | 30.3 | 1.87 | 26.3 | 0.01 | 0.00 | 0.04 | 0.04 | 176 | |
| 1 | 200 ISL | 8.42 | 8.40 | 33.995 | 26.425 | 163.1 | 0.498 | 2.77 | 42.0 | 35.0 | 1.98 | 27.9 | 0.01 | 0.00 | 0.03 | 0.03 | 202 | |
| 1 | 205 | 8.36 | 8.34 | 34.006 | 26.443 | 161.5 | 0.506 | 2.73 | 41.3 | 35.9 | 2.00 | 28.2 | 0.01 | 0.01 | 0.03 | 0.03 | 207 | |
| 1 | 233 | 7.92 | 7.90 | 34.041 | 26.536 | 153.0 | 0.550 | 2.54 | 38.1 | 41.4 | 2.12 | 29.9 | 0.00 | 0.00 | 0.00 | 0.00 | 235 | |
| 1 | 250 ISL | 7.70 | 7.68 | 34.050 | 26.576 | 149.4 | 0.576 | 2.41 | 35.9 | 44.2 | 2.19 | 30.8 | 0.00 | 0.00 | 0.00 | 0.00 | 252 | |
| 1 | 273 | 7.45 | 7.42 | 34.057 | 26.617 | 145.8 | 0.610 | 2.20 | 32.6 | 47.8 | 2.28 | 31.9 | 0.00 | 0.00 | 0.00 | 0.00 | 275 | |
| 1 | 300 ISL | 7.19 | 7.16 | 34.073 | 26.667 | 141.4 | 0.649 | 1.91 | 28.2 | 52.1 | 2.40 | 33.5 | 0.00 | 0.00 | 0.00 | 0.00 | 302 | |
| 1 | 327 | 6.96 | 6.93 | 34.092 | 26.713 | 137.2 | 0.686 | 1.60 | 23.5 | 56.5 | 2.52 | 35.1 | 0.00 | 0.00 | 0.00 | 0.00 | 330 | |
| 1 | 385 | 6.43 | 6.40 | 34.138 | 26.821 | 127.5 | 0.763 | 1.03 | 14.9 | 66.1 | 2.76 | 38.1 | 0.00 | 0.00 | 0.00 | 0.00 | 388 | |
| 1 | 400 ISL | 6.33 | 6.29 | 34.154 | 26.847 | 125.2 | 0.782 | 0.91 | 13.1 | 68.4 | 2.81 | 38.7 | 0.00 | 0.00 | 0.00 | 0.00 | 403 | |
| 1 | 448 | 6.05 | 6.01 | 34.203 | 26.922 | 118.5 | 0.841 | 0.59 | 8.5 | 75.3 | 2.95 | 40.1 | 0.00 | 0.00 | 0.00 | 0.00 | 452 | |
| 1 | 500 ISL | 5.74 | 5.70 | 34.240 | 26.990 | 112.5 | 0.901 | 0.42 | 6.0 | 81.3 | 3.04 | 41.3 | 0.00 | 0.00 | 0.00 | 0.00 | 504 | |
| 1 | 515 | 5.65 | 5.61 | 34.251 | 27.010 | 110.7 | 0.917 | 0.37 | 5.3 | 83.0 | 3.07 | 41.6 | 0.00 | 0.00 | 0.00 | 0.00 | 519 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 80

| LATITUDE 31 45.1 N | LONGITUDE 121 19.0 W | DAY/MO/YR 24/01/88 | MESSENGER | | BOTTOM 3638 M | WIND 320 | SPEED 16 KT | WAVES | | WEATHER | BAROMETER | | DRY 14.4 C | WET 13.0 C | CLOUD AMT | TYPE | | |
|-----------------------|-------------------------|-----------------------|-----------|----------|------------------|-------------|----------------|-------|-------|---------|-----------|------|---------------|---------------|-----------|-------|-------|-------|
| | | | 0754 | UTC | | | | SVA | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | | | ML/L | PCT | UM/L | UM/L | UM/L | UG/L | UG/L | UG/L | D.BAR | | |
| 1 | 0 ISL | 14.56 | 14.56 | 33.251 | 24.719 | 321.5 | 0.000 | 5.91 | 101.9 | 2.6 | 0.36 | 0.2 | 0.01 | 0.25 | 0.09 | 0 | | |
| 1 | 1 | 14.56 | 14.56 | 33.251 | 24.719 | 321.5 | 0.003 | 5.91 | 101.9 | 2.6 | 0.36 | 0.2 | 0.01 | 0.25 | 0.09 | 1 | | |
| 1 | 10 ISL | 14.54 | 14.54 | 33.249 | 24.722 | 321.5 | 0.032 | 5.92 | 102.0 | 2.8 | 0.36 | 0.2 | 0.01 | 0.26 | 0.09 | 10 | | |
| 1 | 16 | 14.52 | 14.52 | 33.248 | 24.725 | 321.4 | 0.051 | 5.93 | 102.1 | 2.9 | 0.36 | 0.2 | 0.01 | 0.26 | 0.10 | 16 | | |
| 1 | 20 ISL | 14.46 | 14.46 | 33.243 | 24.735 | 320.6 | 0.064 | 5.93 | 102.0 | 2.9 | 0.37 | 0.3 | 0.02 | 0.28 | 0.11 | 20 | | |
| 1 | 30 ISL | 14.31 | 14.31 | 33.231 | 24.757 | 318.7 | 0.096 | 5.93 | 101.7 | 3.0 | 0.39 | 0.4 | 0.03 | 0.31 | 0.12 | 30 | | |
| 1 | 32 | 14.28 | 14.28 | 33.229 | 24.762 | 318.4 | 0.103 | 5.93 | 101.6 | 3.0 | 0.40 | 0.4 | 0.03 | 0.32 | 0.12 | 32 | | |
| 1 | 40 | 13.84 | 13.83 | 33.214 | 24.842 | 310.9 | 0.128 | 5.94 | 100.9 | 3.2 | 0.42 | 0 | 0.07 | 0.54 | 0.23 | 40 | | |
| 1 | 50 | 13.64 | 13.63 | 33.208 | 24.879 | 307.7 | 0.159 | 6.00 | 101.4 | 3.3 | 0.43 | 1.1 | 0.07 | 0.60 | 0.17 | 50 | | |
| 1 | 60 | 13.60 | 13.59 | 33.204 | 24.884 | 307.5 | 0.189 | 5.99 | 101.2 | 3.2 | 0.44 | 1.1 | 0.09 | 0.53 | 0.13 | 60 | | |
| 1 | 70 | 13.50 | 13.49 | 33.201 | 24.902 | 306.0 | 0.220 | 5.95 | 100.3 | 3.3 | 0.44 | 1.3 | 0.08 | 0.56 | 0.22 | 71 | | |
| 1 | 75 ISL | 13.48 | 13.47 | 33.203 | 24.908 | 305.6 | 0.235 | 5.94 | 100.1 | 3.4 | 0.45 | 1.4 | 0.08 | 0.54 | 0.21 | 76 | | |
| 1 | 79 | 13.47 | 13.46 | 33.204 | 24.911 | 305.4 | 0.248 | 5.93 | 99.9 | 3.5 | 0.46 | 1.5 | 0.09 | 0.53 | 0.20 | 80 | | |
| 1 | 95 | 13.32 | 13.31 | 33.204 | 24.941 | 302.9 | 0.296 | 5.87 | 98.6 | 3.8 | 0.50 | 2.0 | 0.12 | 0.31 | 0.17 | 96 | | |
| 1 | 100 ISL | 12.82 | 12.81 | 33.252 | 25.078 | 290.0 | 0.311 | 5.56 | 92.4 | 5.4 | 0.63 | 4.4 | 0.09 | 0.22 | 0.14 | 101 | | |
| 1 | 110 | 11.69 | 11.68 | 33.383 | 25.394 | 260.0 | 0.339 | 4.87 | 79.1 | 9.4 | 0.92 | 10.0 | 0.02 | 0.08 | 0.09 | 111 | | |
| 1 | 124 | 10.77 | 10.76 | 33.549 | 25.689 | 232.0 | 0.373 | 4.34 | 69.2 | 14.5 | 1.22 | 15.5 | 0.01 | 0.03 | 0.04 | 125 | | |
| 1 | 149 | 9.83 | 9.81 | 33.728 | 25.990 | 203.8 | 0.428 | 3.50 | 54.7 | 22.1 | 1.61 | 21.7 | 0.00 | 0.01 | 0.02 | 150 | | |
| 1 | 150 ISL | 9.79 | 9.77 | 33.734 | 26.002 | 202.7 | 0.430 | 3.49 | 54.5 | 22.4 | 1.62 | 21.9 | 0.00 | 0.01 | 0.02 | 151 | | |
| 1</td | | | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 90

LATITUDE LONGITUDE DAY/MO/YR MESSENGER

PV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 19.9 W | 23/01/88 | 1257 UTC | 4080 M | 030 | 11 KT | | | 1027.1 MB | 17.5 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 | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.78 | 15.78 | 33.542 | 24.677 | 325.5 | 0.000 | 5.74 | 101.5 | 2.6 | 0.31 | 0.2 | 0.00 | 0.15 | 0.06 | 0 |
| 1 | 1 | 15.78 | 15.78 | 33.542 | 24.677 | 325.6 | 0.003 | 5.74 | 101.5 | 2.6 | 0.31 | 0.2 | 0.00 | 0.15 | 0.06 | 1 |
| 1 | 10 ISL | 15.78 | 15.78 | 33.539 | 24.675 | 326.0 | 0.033 | 5.74 | 101.5 | 2.7 | 0.30 | 0.2 | 0.00 | 0.16 | 0.06 | 10 |
| 1 | 16 | 15.78 | 15.78 | 33.536 | 24.673 | 326.4 | 0.052 | 5.74 | 101.5 | 2.7 | 0.29 | 0.2 | 0.00 | 0.16 | 0.06 | 16 |
| 1 | 20 ISL | 15.78 | 15.78 | 33.535 | 24.672 | 326.6 | 0.065 | 5.74 | 101.5 | 2.7 | 0.29 | 0.2 | 0.00 | 0.16 | 0.06 | 20 |
| 1 | 30 ISL | 15.78 | 15.78 | 33.534 | 24.672 | 327.0 | 0.098 | 5.72 | 101.2 | 2.7 | 0.30 | 0.2 | 0.00 | 0.16 | 0.06 | 30 |
| 1 | 36 | 15.78 | 15.77 | 33.533 | 24.671 | 327.2 | 0.118 | 5.72 | 101.2 | 2.7 | 0.30 | 0.2 | 0.00 | 0.16 | 0.06 | 36 |
| 1 | 50 ISL | 15.80 | 15.79 | 33.534 | 24.668 | 328.0 | 0.163 | 5.74 | 101.6 | 2.5 | 0.30 | 0.2 | 0.00 | 0.16 | 0.05 | 50 |
| 1 | 57 | 15.81 | 15.80 | 33.534 | 24.666 | 328.4 | 0.186 | 5.75 | 101.7 | 2.4 | 0.30 | 0.2 | 0.00 | 0.16 | 0.05 | 57 |
| 1 | 71 | 15.81 | 15.80 | 33.534 | 24.666 | 328.8 | 0.232 | 5.75 | 101.7 | 2.3 | 0.29 | 0.2 | 0.00 | 0.15 | 0.06 | 72 |
| 1 | 75 ISL | 15.81 | 15.80 | 33.533 | 24.666 | 329.0 | 0.246 | 5.75 | 101.7 | 2.2 | 0.29 | 0.2 | 0.00 | 0.15 | 0.06 | 76 |
| 1 | 81 | 15.81 | 15.80 | 33.532 | 24.665 | 329.2 | 0.265 | 5.74 | 101.6 | 2.2 | 0.29 | 0.2 | 0.00 | 0.15 | 0.05 | 82 |
| 1 | 91 | 15.79 | 15.78 | 33.534 | 24.672 | 328.9 | 0.298 | 5.75 | 101.7 | 2.3 | 0.30 | 0.2 | 0.00 | 0.15 | 0.05 | 92 |
| 1 | 100 ISL | 15.80 | 15.78 | 33.534 | 24.670 | 329.4 | 0.328 | 5.73 | 101.4 | 2.2 | 0.30 | 0.2 | 0.00 | 0.15 | 0.06 | 101 |
| 1 | 102 | 15.80 | 15.78 | 33.534 | 24.670 | 329.4 | 0.334 | 5.73 | 101.4 | 2.2 | 0.30 | 0.2 | 0.00 | 0.15 | 0.06 | 103 |
| 1 | 112 | 14.89 | 14.87 | 33.647 | 24.957 | 302.2 | 0.366 | 5.56 | 96.7 | 3.0 | 0.35 | 1.0 | 0.15 | 0.17 | 0.18 | 113 |
| 1 | 125 ISL | 14.74 | 14.72 | 33.906 | 25.190 | 280.5 | 0.404 | 5.31 | 92.2 | 3.6 | 0.37 | 2.2 | 0.05 | 0.11 | 0.12 | 126 |
| 1 | 127 | 14.73 | 14.71 | 33.935 | 25.214 | 278.3 | 0.409 | 5.28 | 91.6 | 3.7 | 0.37 | 2.4 | 0.03 | 0.10 | 0.10 | 128 |
| 1 | 142 | 13.54 | 13.52 | 33.764 | 25.331 | 267.2 | 0.450 | 5.20 | 88.0 | 4.8 | 0.52 | 4.5 | 0.02 | 0.07 | 0.08 | 143 |
| 1 | 150 ISL | 12.66 | 12.64 | 33.698 | 25.456 | 255.4 | 0.471 | 5.05 | 83.9 | 6.6 | 0.67 | 6.9 | 0.02 | 0.05 | 0.06 | 151 |
| 1 | 162 | 11.37 | 11.35 | 33.655 | 25.666 | 235.4 | 0.501 | 4.77 | 77.1 | 10.2 | 0.91 | 11.0 | 0.01 | 0.03 | 0.04 | 163 |
| 1 | 183 | 9.98 | 9.96 | 33.747 | 25.981 | 205.5 | 0.547 | 4.34 | 68.0 | 17.1 | 1.26 | 17.1 | 0.01 | 0.01 | 0.02 | 184 |
| 1 | 200 ISL | 9.53 | 9.51 | 33.811 | 26.106 | 193.8 | 0.581 | 4.24 | 65.8 | 19.7 | 1.37 | 18.9 | 0.00 | 0.00 | 0.01 | 202 |
| 1 | 207 | 9.44 | 9.42 | 33.834 | 26.139 | 190.8 | 0.594 | 4.23 | 65.6 | 20.4 | 1.39 | 19.2 | 0.00 | 0.00 | 0.01 | 209 |
| 1 | 236 | 8.91 | 8.88 | 33.924 | 26.294 | 176.4 | 0.648 | 4.12 | 63.1 | 24.4 | 1.49 | 21.2 | 0.00 | | | 238 |
| 1 | 250 ISL | 8.61 | 8.58 | 33.955 | 26.365 | 169.8 | 0.672 | 3.99 | 60.7 | 27.4 | 1.57 | 22.5 | 0.00 | | | 252 |
| 1 | 277 | 8.03 | 8.00 | 33.998 | 26.487 | 158.5 | 0.716 | 3.65 | 54.8 | 33.9 | 1.75 | 25.3 | 0.00 | | | 279 |
| 1 | 300 ISL | 7.63 | 7.60 | 34.011 | 26.556 | 152.1 | 0.752 | 3.29 | 49.0 | 39.2 | 1.90 | 27.6 | 0.00 | | | 302 |
| 1 | 331 | 7.17 | 7.14 | 34.021 | 26.629 | 145.4 | 0.798 | 2.75 | 40.5 | 46.2 | 2.12 | 30.6 | 0.00 | | | 334 |
| 1 | 389 | 6.55 | 6.51 | 34.076 | 26.756 | 133.8 | 0.879 | 1.65 | 24.0 | 59.3 | 2.53 | 35.9 | 0.00 | | | 392 |
| 1 | 400 ISL | 6.44 | 6.40 | 34.085 | 26.778 | 131.8 | 0.894 | 1.50 | 21.7 | 61.5 | 2.59 | 36.6 | 0.00 | | | 403 |
| 1 | 451 | 5.97 | 5.93 | 34.125 | 26.870 | 123.3 | 0.959 | 0.99 | 14.2 | 71.0 | 2.81 | 39.2 | 0.00 | | | 455 |
| 1 | 500 ISL | 5.60 | 5.56 | 34.162 | 26.945 | 116.5 | 1.017 | 0.70 | 9.9 | 79.5 | 2.94 | 40.8 | 0.00 | | | 504 |
| 1 | 517 | 5.47 | 5.43 | 34.175 | 26.971 | 114.1 | 1.037 | 0.60 | 8.5 | 82.4 | 2.98 | 41.4 | 0.00 | | | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 59.8 W | 23/01/88 | 0732 UTC | 4310 M | 060 | 10 KT | | | 1029.5 MB | 16.1 C | 14.0 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 | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 15.51 | 15.51 | 33.402 | 24.629 | 330.1 | 0.000 | 5.78 | 101.6 | 2.6 | 0.32 | 0.2 | 0.00 | 0.17 | 0.06 | 0 |
| 1 | 10 ISL | 15.45 | 15.45 | 33.399 | 24.641 | 329.3 | 0.033 | 5.77 | 101.3 | 2.8 | 0.33 | 0.2 | 0.00 | 0.17 | 0.06 | 10 |
| 1 | 15 | 15.42 | 15.42 | 33.398 | 24.647 | 328.9 | 0.049 | 5.77 | 101.3 | 2.9 | 0.33 | 0.2 | 0.00 | 0.17 | 0.06 | 15 |
| 1 | 20 ISL | 15.42 | 15.42 | 33.398 | 24.647 | 329.0 | 0.066 | 5.77 | 101.3 | 2.9 | 0.33 | 0.2 | 0.00 | 0.17 | 0.06 | 20 |
| 1 | 30 ISL | 15.43 | 15.43 | 33.399 | 24.646 | 329.4 | 0.099 | 5.78 | 101.4 | 2.8 | 0.32 | 0.2 | 0.00 | 0.17 | 0.06 | 30 |
| 1 | 35 | 15.43 | 15.42 | 33.399 | 24.646 | 329.6 | 0.115 | 5.78 | 101.4 | 2.8 | 0.32 | 0.2 | 0.00 | 0.17 | 0.06 | 35 |
| 1 | 50 ISL | 15.65 | 15.64 | 33.485 | 24.664 | 328.4 | 0.165 | 5.75 | 101.4 | 2.7 | 0.31 | 0.1 | 0.00 | 0.18 | 0.07 | 50 |
| 1 | 55 | 15.73 | 15.72 | 33.516 | 24.670 | 327.9 | 0.181 | 5.74 | 101.4 | 2.7 | 0.30 | 0.1 | 0.00 | 0.18 | 0.07 | 55 |
| 1 | 70 | 15.82 | 15.81 | 33.557 | 24.682 | 327.3 | 0.230 | 5.73 | 101.4 | 2.5 | 0.29 | 0.1 | 0.00 | 0.17 | 0.08 | 71 |
| 1 | 75 ISL | 15.86 | 15.85 | 33.570 | 24.683 | 327.3 | 0.247 | 5.73 | 101.5 | 2.4 | 0.29 | 0.1 | 0.00 | 0.17 | 0.07 | 76 |
| 1 | 79 | 15.87 | 15.86 | 33.579 | 24.688 | 327.0 | 0.260 | 5.73 | 101.5 | 2.3 | 0.29 | 0.1 | 0.00 | 0.17 | 0.07 | 80 |
| 1 | 89 | 15.78 | 15.77 | 33.583 | 24.711 | 325.1 | 0.292 | 5.69 | 100.6 | 2.4 | 0.29 | 0.2 | 0.03 | 0.15 | 0.08 | 90 |
| 1 | 100 | 15.78 | 15.76 | 33.706 | 24.806 | 316.4 | 0.327 | 5.59 | 98.9 | 2.8 | 0.30 | 0.4 | 0.10 | 0.13 | 0.14 | 101 |
| 1 | 111 | 15.71 | 15.69 | 33.873 | 24.951 | 303.0 | 0.362 | 5.50 | 97.3 | 2.9 | 0.28 | 0.7 | 0.13 | 0.15 | 0.15 | 112 |
| 1 | 125 | 14.62 | 14.60 | 33.925 | 25.230 | 276.7 | 0.402 | 5.28 | 91.4 | 3.9 | 0.38 | 2.6 | 0.03 | 0.09 | 0.09 | 126 |
| 1 | 141 | 13.10 | 13.08 | 33.841 | 25.480 | 253.0 | 0.445 | 5.07 | 85.1 | 6.1 | 0.59 | 6.0 | 0.01 | 0.04 | 0.05 | 142 |
| 1 | 150 ISL | 12.24 | 12.22 | 33.770 | 25.593 | 242.3 | 0.467 | 4.92 | 81.0 | 8.2 | 0.75 | 8.5 | 0.00 | 0.03 | 0.04 | 151 |
| 1 | 160 | 11.41 | 11.39 | 33.715 | 25.705 | 231.6 | 0.491 | 4.76 | 77.0 | 10.5 | 0.92 | 11.2 | 0.00 | 0.02 | 0.04 | 161 |
| 1 | 180 | 10.61 | 10.59 | 33.794 | 25.910 | 212.4 | 0.535 | 4.59 | 73.0 | 13.6 | 1.08 | 14.1 | 0.00 | 0.01 | 0.02 | 181 |
| 1 | 200 ISL | 9.77 | 9.75 | 33.807 | 26.063 | 198.0 | 0.576 | 4.29 | 67.0 | 18.2 | 1.31 | 17.9 | 0.00 | 0.00 | 0.01 | 202 |
| 1 | 206 | 9.54 | 9.52 | 33.811 | 26.104 | 194.1 | 0.588 | 4.20 | 65.2 | 19.7 | 1.38 | 19.0 | 0.00 | 0.00 | 0.01 | 208 |
| 1 | 235 | 8.83 | 8.80 | 33.922 | 26.305 | 175.4 | 0.641 | 3.92 | 59.9 | 25.8 | 1.58 | 22.3 | 0.00 | | | 237 |
| 1 | 250 ISL | 8.51 | 8.48 | 33.960 | 26.385 | 167.9 | 0.667 | 3.78 | 57.4 | 29.0 | 1.67 | 23.7 | 0.00 | | | 252 |
| 1 | 274 | 8.06 | 8.03 | 34.000 | 26.484 | 158.7 | 0.706 | 3.55 | 53.4</td | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-----------|------|-------|-------|-------|
| 32 57.2 N | 117 18.3 W | 19/01/88 | 2323 UTC | 60 M | 220 | 05 KT | 300 04 | 12 0 | 1019.7 MB | 15.7 C | 11.4 C | 0/8 | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| 1 | 0 ISL | 14.33 | 14.33 | 33.356 | 24.849 | 309.2 | 0.000 | 5.79 | 99.4 | 5.3 | 0.77 | 0.5 | 0.12 | 2.55 | 0.37 | 0 |
| 1 | 1 | 14.33 | 14.33 | 33.356 | 24.849 | 309.2 | 0.003 | 5.79 | 99.4 | 5.3 | 0.77 | 0.5 | 0.12 | 2.55 | 0.37 | 1 |
| 1 | 10 ISL | 14.00 | 14.00 | 33.356 | 24.918 | 302.9 | 0.031 | 5.70 | 97.2 | 4.9 | 0.68 | 0.5 | 0.10 | 0.84 | 0.32 | 10 |
| 1 | 11 | 13.95 | 13.95 | 33.356 | 24.928 | 301.9 | 0.034 | 5.69 | 96.9 | 4.8 | 0.67 | 0.5 | 0.10 | 0.61 | 0.31 | 11 |
| 1 | 20 ISL | 13.88 | 13.88 | 33.370 | 24.954 | 299.7 | 0.061 | 5.65 | 96.1 | 4.9 | 0.69 | 0.9 | 0.12 | 0.48 | 0.35 | 20 |
| 1 | 21 | 13.87 | 13.87 | 33.371 | 24.957 | 299.5 | 0.064 | 5.64 | 95.9 | 4.9 | 0.69 | 0.9 | 0.12 | 0.47 | 0.35 | 21 |
| 1 | 30 ISL | 12.79 | 12.79 | 33.494 | 25.269 | 269.9 | 0.089 | 4.82 | 80.2 | 9.0 | 0.91 | 7.7 | 0.18 | 0.27 | 0.30 | 30 |
| 1 | 31 | 12.66 | 12.66 | 33.509 | 25.306 | 266.5 | 0.092 | 4.72 | 78.3 | 9.5 | 0.94 | 8.5 | 0.18 | 0.25 | 0.30 | 31 |
| 1 | 41 | 12.23 | 12.22 | 33.550 | 25.421 | 255.8 | 0.118 | 4.48 | 73.7 | 11.3 | 1.06 | 10.5 | 0.15 | 0.23 | 0.39 | 41 |
| 1 | 50 ISL | 11.94 | 11.93 | 33.582 | 25.501 | 248.4 | 0.141 | 4.29 | 70.1 | 12.7 | 1.15 | 12.0 | 0.13 | 0.16 | 0.36 | 50 |
| 1 | 51 | 11.91 | 11.90 | 33.585 | 25.509 | 247.7 | 0.143 | 4.27 | 69.8 | 12.9 | 1.16 | 12.2 | 0.13 | 0.15 | 0.36 | 51 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

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 | 20/01/88 | 0121 UTC | 620 M | 210 | 08 KT | 290 04 | 10 0 | 1021.2 MB | 14.3 C | 10.7 C | 0/8 | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| 1 | 0 | 14.03 | 14.03 | 33.401 | 24.946 | 299.9 | 0.000 | 5.89 | 100.5 | 4.1 | 0.44 | 1.0 | 0.08 | 0.61 | 0.17 | 0 |
| 1 | 10 | 13.97 | 13.97 | 33.399 | 24.957 | 299.1 | 0.030 | 5.90 | 100.6 | 4.3 | 0.44 | 1.0 | 0.08 | 0.69 | 0.22 | 10 |
| 1 | 20 | 13.91 | 13.91 | 33.399 | 24.970 | 298.2 | 0.060 | 5.88 | 100.1 | 4.3 | 0.44 | 1.0 | 0.09 | 0.89 | 0.26 | 20 |
| 1 | 30 | 13.91 | 13.91 | 33.399 | 24.970 | 298.4 | 0.090 | 5.85 | 99.6 | 4.1 | 0.44 | 1.1 | 0.10 | 0.74 | 0.28 | 30 |
| 1 | 41 | 13.82 | 13.81 | 33.405 | 24.994 | 296.5 | 0.122 | 5.76 | 97.9 | 4.4 | 0.46 | 1.6 | 0.13 | 0.40 | 0.24 | 41 |
| 1 | 50 ISL | 12.37 | 12.36 | 33.542 | 25.388 | 259.1 | 0.147 | 4.66 | 76.9 | 10.0 | 0.93 | 9.6 | 0.04 | 0.16 | 0.17 | 50 |
| 1 | 51 | 12.19 | 12.18 | 33.559 | 25.436 | 254.6 | 0.150 | 4.53 | 74.5 | 10.7 | 0.99 | 10.5 | 0.03 | 0.14 | 0.16 | 51 |
| 1 | 61 | 11.47 | 11.46 | 33.588 | 25.593 | 239.8 | 0.175 | 4.27 | 69.1 | 13.4 | 1.15 | 13.5 | 0.01 | 0.08 | 0.11 | 61 |
| 1 | 72 | 11.05 | 11.04 | 33.624 | 25.697 | 230.2 | 0.201 | 4.16 | 66.7 | 15.0 | 1.24 | 15.0 | 0.01 | 0.05 | 0.11 | 73 |
| 75 ISL | 10.97 | 10.96 | 33.644 | 25.727 | 227.4 | 0.207 | 4.07 | 65.2 | 15.7 | 1.28 | 15.6 | 0.01 | 0.04 | 0.10 | 76 | |
| 1 | 85 | 10.79 | 10.78 | 33.722 | 25.820 | 218.8 | 0.230 | 3.72 | 59.4 | 18.2 | 1.42 | 17.6 | 0.01 | 0.03 | 0.07 | 86 |
| 1 | 100 | 10.66 | 10.65 | 33.832 | 25.929 | 208.8 | 0.262 | 3.21 | 51.1 | 21.6 | 1.60 | 20.2 | 0.00 | 0.01 | 0.06 | 101 |
| 1 | 120 | 10.50 | 10.49 | 33.999 | 26.087 | 194.2 | 0.302 | 2.58 | 41.0 | 26.3 | 1.85 | 23.7 | 0.00 | 0.01 | 0.05 | 121 |
| 125 ISL | 10.47 | 10.46 | 34.036 | 26.121 | 191.0 | 0.312 | 2.45 | 38.9 | 27.3 | 1.90 | 24.3 | 0.00 | 0.01 | 0.05 | 126 | |
| 1 | 147 | 10.19 | 10.17 | 34.134 | 26.247 | 179.6 | 0.352 | 2.11 | 33.3 | 31.1 | 2.06 | 25.9 | 0.00 | 0.01 | 0.04 | 148 |
| 150 ISL | 10.08 | 10.06 | 34.129 | 26.262 | 178.2 | 0.358 | 2.13 | 33.5 | 31.5 | 2.06 | 26.0 | 0.00 | 0.01 | 0.04 | 151 | |
| 1 | 176 | 9.18 | 9.16 | 34.062 | 26.358 | 169.3 | 0.403 | 2.36 | 36.4 | 34.1 | 2.05 | 27.0 | 0.01 | 0.03 | 0.06 | 177 |
| 200 ISL | 8.94 | 8.92 | 34.097 | 26.424 | 163.4 | 0.443 | 2.21 | 33.9 | 36.8 | 2.12 | 27.9 | 0.00 | 0.03 | 0.05 | 202 | |
| 1 | 207 | 8.93 | 8.91 | 34.113 | 26.439 | 162.2 | 0.454 | 2.14 | 32.8 | 37.5 | 2.14 | 28.2 | 0.00 | 0.03 | 0.05 | 209 |
| 1 | 236 | 8.81 | 8.78 | 34.135 | 26.475 | 159.3 | 0.501 | 2.02 | 30.9 | 39.0 | 2.20 | 28.9 | 0.00 | 0.01 | 0.05 | 238 |
| 250 ISL | 8.73 | 8.70 | 34.149 | 26.499 | 157.3 | 0.523 | 1.94 | 29.6 | 40.0 | 2.23 | 29.3 | 0.00 | 0.01 | 0.05 | 252 | |
| 1 | 276 | 8.54 | 8.51 | 34.176 | 26.550 | 152.9 | 0.563 | 1.74 | 26.5 | 42.5 | 2.31 | 30.2 | 0.00 | 0.01 | 0.05 | 278 |
| 300 ISL | 8.27 | 8.24 | 34.201 | 26.611 | 147.4 | 0.599 | 1.47 | 22.2 | 46.4 | 2.42 | 31.6 | 0.00 | 0.01 | 0.05 | 302 | |
| 1 | 329 | 7.92 | 7.89 | 34.229 | 26.685 | 140.6 | 0.641 | 1.13 | 17.0 | 51.7 | 2.57 | 33.3 | 0.00 | 0.01 | 0.05 | 332 |
| 1 | 388 | 7.33 | 7.29 | 34.265 | 26.799 | 130.4 | 0.721 | 0.73 | 10.8 | 60.9 | 2.78 | 35.6 | 0.00 | 0.01 | 0.05 | 391 |
| 400 ISL | 7.19 | 7.15 | 34.273 | 26.825 | 128.0 | 0.737 | 0.66 | 9.7 | 63.1 | 2.82 | 36.1 | 0.00 | 0.01 | 0.05 | 403 | |
| 1 | 451 | 6.60 | 6.56 | 34.305 | 26.931 | 118.3 | 0.799 | 0.41 | 6.0 | 72.4 | 2.95 | 38.0 | 0.01 | 0.01 | 0.05 | 455 |
| 500 ISL | 6.12 | 6.08 | 34.334 | 27.017 | 110.4 | 0.856 | 0.30 | 4.3 | 80.5 | 3.05 | 39.4 | 0.00 | 0.01 | 0.05 | 504 | |
| 1 | 518 | 5.95 | 5.90 | 34.346 | 27.048 | 107.5 | 0.875 | 0.26 | 3.7 | 83.5 | 3.08 | 39.9 | 0.00 | 0.01 | 0.05 | 522 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 30

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-----------|------|-------|----------|-------|
| 32 50.7 N | 117 31.9 W | 20/01/88 | 0352 UTC | 872 M | 280 | 07 KT | 872 M | 280 | 1022.5 MB | 14.4 C | 11.7 C | | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| 1 | 0 | 13.66 | 13.66 | 33.410 | 25.029 | 292.0 | 0.000 | 5.83 | 98.7 | 4.5 | 0.51 | 2.0 | 0.13 | 0.68 | 0.27 | 0 |
| 1 | 10 | 13.66 | 13.66 | 33.408 | 25.028 | 292.4 | 0.029 | 5.81 | 98.4 | 4.6 | 0.49 | 1.9 | 0.14 | 0.69 | 0.26 | 10 |
| 1 | 20 | 13.63 | 13.63 | 33.406 | 25.033 | 292.2 | 0.058 | 5.78 | 97.8 | 4.7 | 0.49 | 2.0 | 0.14 | 0.71 | 0.30 | 20 |
| 1 | 30 | 13.63 | 13.63 | 33.406 | 25.033 | 292.4 | 0.088 | 5.75 | 97.3 | 5.0 | 0.50 | 2.0 | 0.14 | 0.65 | 0.31 | 30 |
| 1 | 40 | 13.61 | 13.60 | 33.414 | 25.044 | 291.7 | 0.117 | 5.74 | 97.1 | 4.9 | 0.50 | 2.1 | 0.15 | 0.55 | 0.29 | 40 |
| 1 | 50 ISL | 13.50 | 13.49 | 33.413 | 25.065 | 289.9 | 0.146 | 5.60 | 94.5 | 5.1 | 0.55 | 2.8 | 0.15 | 0.31 | 0.24 | 50 |
| 1 | 51 | 13.49 | 13.48 | 33.413 | 25.068 | 289.8 | 0.149 | 5.59 | 94.3 | 5.1 | 0.55 | 2.9 | 0.15 | 0.29 | 0.23 | 51 |
| 1 | 60 | 12.45 | 12.44 | 33.476 | 25.322 | 265.7 | 0.174 | 4.77 | 78.8 | 8.9 | 0.91 | 9.0 | 0.07 | 0.17 | 0.18 | 60 |
| 1 | 71 | 11.92 | 11.91 | 33.521 | 25.458 | 253.0 | 0.202 | 4.58 | 74.8 | 10.5 | 1.01 | 10.8 | 0.04 | 0.12 | 0.16 | 72 |
| 75 ISL | 11.75 | 11.74 | 33.552 | 25.514 | 247.8 | 0.212 | 4.44 | 72.3 | 11.4 | 1.08 | 11.8 | 0.03 | 0.10 | 0.14 | 76 | |
| 1 | 85 | 11.32 | 11.31 | 33.637 | 25.659 | 234.2 | 0.237 | 4.07 | 65.7 | 14.1 | 1.25 | 14.5 | 0.02 | 0.05 | 0.09 | 86 |
| 1 | 100 | 10.65 | 10.64 | 33.740 | 25.859 | 215.4 | 0.270 | 3.71 | 59.0 | 18.1 | 1.44 | 17.8 | 0.02 | 0.02 | 0.07</td | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 35

| LATITUDE 32 40.4 N | LONGITUDE 117 51.3 W | DAY/MO/YR 20/01/88 | MESSENGER 0838 UTC | BOTTOM 668 M | WIND 290 07 KT | SPEED 07 KT | WAVES | WEATHER | BAROMETER | | DRY 1024.2 MB | WET 13.9 C | CLOUD 11.0 C | AMT | TYPE | | |
|-----------------------|-------------------------|-----------------------|-----------------------|-----------------|-------------------|----------------|-------|---------|-----------|-------|------------------|-------------------|--------------------|----------------|------|--------|----------------|
| | | | | | | | | | CAST | DEPTH | TEMP M DEG C | POT TEMP DEG C | SALINITY PSS 78 | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L |
| 1 | 0 | 13.84 | 13.84 | 33.394 | 24.980 | 296.7 | 0.000 | 5.90 | 100.3 | 3.4 | 0.41 | 0.9 | 0.09 | 2.24 | 0.19 | 0 | |
| | 10 ISL | 13.83 | 13.83 | 33.395 | 24.983 | 296.7 | 0.030 | 5.91 | 100.4 | 3.4 | 0.41 | 0.9 | 0.09 | 2.23 | 0.24 | 10 | |
| 1 | 15 | 13.83 | 13.83 | 33.395 | 24.983 | 296.8 | 0.045 | 5.92 | 100.6 | 3.4 | 0.41 | 0.9 | 0.09 | 2.23 | 0.27 | 15 | |
| | 20 ISL | 13.83 | 13.83 | 33.395 | 24.983 | 296.9 | 0.059 | 5.92 | 100.6 | 3.4 | 0.41 | 0.9 | 0.09 | 2.09 | 0.32 | 20 | |
| 1 | 29 | 13.83 | 13.83 | 33.395 | 24.984 | 297.2 | 0.086 | 5.92 | 100.6 | 3.5 | 0.41 | 0.9 | 0.09 | 1.85 | 0.36 | 29 | |
| | 30 ISL | 13.83 | 13.83 | 33.395 | 24.984 | 297.2 | 0.089 | 5.91 | 100.4 | 3.5 | 0.41 | 0.9 | 0.09 | 1.71 | 0.35 | 30 | |
| 1 | 40 | 13.84 | 13.83 | 33.394 | 24.981 | 297.7 | 0.119 | 5.85 | 99.4 | 3.5 | 0.42 | 1.0 | 0.11 | 0.45 | 0.26 | 40 | |
| 1 | 49 | 13.83 | 13.82 | 33.394 | 24.983 | 297.7 | 0.146 | 5.83 | 99.1 | 3.6 | 0.43 | 1.1 | 0.12 | 0.39 | 0.20 | 49 | |
| | 50 ISL | 13.83 | 13.82 | 33.394 | 24.984 | 297.7 | 0.149 | 5.83 | 99.1 | 3.6 | 0.43 | 1.1 | 0.12 | 0.39 | 0.20 | 50 | |
| 1 | 60 | 13.84 | 13.83 | 33.394 | 24.982 | 298.2 | 0.178 | 5.83 | 99.1 | 3.5 | 0.44 | 1.1 | 0.12 | 0.36 | 0.22 | 60 | |
| 1 | 70 | 13.12 | 13.11 | 33.432 | 25.157 | 281.7 | 0.207 | 5.29 | 88.6 | 6.2 | 0.67 | 5.1 | 0.12 | 0.16 | 0.15 | 71 | |
| | 75 ISL | 12.62 | 12.61 | 33.467 | 25.283 | 269.9 | 0.221 | 4.92 | 81.6 | 8.2 | 0.84 | 7.8 | 0.09 | 0.12 | 0.14 | 76 | |
| 1 | 80 | 12.14 | 12.13 | 33.509 | 25.407 | 258.1 | 0.234 | 4.56 | 74.8 | 10.2 | 1.00 | 10.5 | 0.06 | 0.10 | 0.13 | 81 | |
| 1 | 94 | 11.34 | 11.33 | 33.634 | 25.653 | 234.9 | 0.269 | 3.96 | 63.9 | 14.4 | 1.26 | 15.0 | 0.02 | 0.04 | 0.09 | 95 | |
| 100 ISL | 11.20 | 11.19 | 33.665 | 25.703 | 230.3 | 0.283 | 3.82 | 61.5 | 15.5 | 1.33 | 16.0 | 0.02 | 0.04 | 0.08 | 101 | | |
| 1 | U0 | 11.05 | 11.04 | 33.705 | 25.761 | 225.0 | 0.306 | 3.66 | 58.7 | 17.0 | 1.41 | 17.3 | 0.02 | 0.03 | 0.07 | HI | |
| 125 ISL | 10.61 | 10.60 | 33.781 | 25.898 | 212.2 | 0.338 | 3.39 | 53.9 | 20.1 | 1.55 | 19.6 | 0.01 | 0.02 | 0.05 | 126 | | |
| 1 | 126 | 10.58 | 10.56 | 33.786 | 25.907 | 211.4 | 0.340 | 3.37 | 53.6 | 20.3 | 1.56 | 19.7 | 0.01 | 0.02 | 0.05 | 127 | |
| 150 ISL | 10.03 | 10.01 | 33.915 | 26.103 | 193.2 | 0.389 | 2.93 | 46.0 | 25.4 | 1.76 | 22.9 | 0.01 | 0.01 | 0.03 | 151 | | |
| 1 | 152 | 9.99 | 9.97 | 33.925 | 26.118 | 191.9 | 0.393 | 2.90 | 45.5 | 25.8 | 1.78 | 23.1 | 0.01 | 0.01 | 0.03 | 153 | |
| 1 | 177 | 9.53 | 9.51 | 34.035 | 26.281 | 176.8 | 0.459 | 2.55 | 39.7 | 30.7 | 1.97 | 25.7 | 0.00 | 0.01 | 0.04 | 178 | |
| 200 ISL | 9.24 | 9.22 | 34.076 | 26.360 | 169.6 | 0.479 | 2.33 | 36.0 | 33.7 | 2.07 | 27.1 | 0.00 | 0.00 | 0.05 | 202 | | |
| 1 | 208 | 9.15 | 9.13 | 34.085 | 26.382 | 167.7 | 0.492 | 2.27 | 35.0 | 34.6 | 2.10 | 27.4 | 0.00 | 0.00 | 0.06 | 210 | |
| 1 | 237 | 8.83 | 8.80 | 34.139 | 26.475 | 159.3 | 0.540 | 2.02 | 30.9 | 38.4 | 2.20 | 28.7 | 0.00 | | | 239 | |
| 250 ISL | 8.64 | 8.61 | 34.146 | 26.510 | 156.1 | 0.560 | 1.94 | 29.6 | 40.1 | 2.24 | 29.3 | 0.00 | | | 252 | | |
| 1 | 278 | 8.24 | 8.21 | 34.153 | 26.577 | 150.1 | 0.603 | 1.77 | 26.7 | 44.1 | 2.33 | 30.8 | 0.00 | | | 280 | |
| 300 ISL | 7.99 | 7.96 | 34.175 | 26.632 | 145.2 | 0.636 | 1.54 | 23.1 | 47.9 | 2.44 | 32.0 | 0.00 | | | 302 | | |
| 1 | 332 | 7.68 | 7.65 | 34.207 | 26.703 | 138.8 | 0.681 | 1.19 | 17.8 | 53.5 | 2.59 | 33.7 | 0.00 | | | 335 | |
| 1 | 391 | 7.11 | 7.07 | 34.226 | 26.799 | 130.3 | 0.760 | 0.84 | 12.4 | 61.8 | 2.76 | 35.9 | 0.00 | | | 394 | |
| 400 ISL | 7.04 | 7.00 | 34.231 | 26.813 | 129.1 | 0.772 | 0.79 | 11.6 | 63.1 | 2.78 | 36.2 | 0.00 | | | 403 | | |
| 1 | 456 | 6.63 | 6.59 | 34.267 | 26.897 | 121.6 | 0.842 | 0.53 | 7.7 | 69.7 | 2.92 | 37.9 | 0.00 | | | 460 | |
| 500 ISL | 6.31 | 6.26 | 34.298 | 26.964 | 115.6 | 0.894 | 0.40 | 5.8 | 71.9 | 3.00 | 38.9 | 0.00 | | | 504 | | |
| 1 | 519 | 6.17 | 6.12 | 34.312 | 26.993 | 112.9 | 0.916 | 0.34 | 4.9 | 72.9 | 3.04 | 39.4 | 0.00 | | | 523 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 40

| LATITUDE 32 30.5 N | LONGITUDE 118 12.9 W | DAY/MO/YR 20/01/88 | MESSENGER 1339 UTC | BOTTOM 1593 M | WIND 100 08 KT | SPEED 08 KT | WAVES | WEATHER | BAROMETER | | DRY 1025.0 MB | WET 13.5 C | CLOUD 10.3 C | AMT | TYPE | | |
|-----------------------|-------------------------|-----------------------|-----------------------|------------------|-------------------|----------------|-------|---------|-----------|-------|------------------|-------------------|--------------------|----------------|------|--------|----------------|
| | | | | | | | | | CAST | DEPTH | TEMP M DEG C | POT TEMP DEG C | SALINITY PSS 78 | SIGMA THETA | SVA | DYN HT | OXYGEN ML/L |
| 1 | 0 | 14.03 | 14.03 | 33.409 | 24.952 | 299.3 | 0.000 | 5.73 | 97.8 | 3.5 | 0.47 | 2.0 | 0.03 | 0.51 | 0.25 | 0 | |
| 10 ISL | 14.02 | 14.02 | 33.408 | 24.954 | 299.4 | 0.030 | 5.74 | 97.9 | 3.8 | 0.48 | 2.0 | 0.03 | 0.50 | 0.26 | 10 | | |
| 1 | 15 | 14.01 | 14.01 | 33.407 | 24.955 | 299.4 | 0.045 | 5.74 | 97.9 | 4.0 | 0.48 | 2.0 | 0.03 | 0.50 | 0.26 | 15 | |
| 20 ISL | 14.01 | 14.01 | 33.407 | 24.955 | 299.6 | 0.060 | 5.74 | 97.9 | 4.0 | 0.48 | 2.0 | 0.03 | 0.50 | 0.25 | 20 | | |
| 1 | 30 | 14.03 | 14.03 | 33.408 | 24.952 | 300.2 | 0.090 | 5.74 | 98.0 | 4.1 | 0.48 | 2.0 | 0.03 | 0.49 | 0.24 | 30 | |
| 1 | 40 | 14.05 | 14.04 | 33.408 | 24.948 | 300.8 | 0.120 | 5.73 | 97.8 | 4.1 | 0.48 | 2.0 | 0.03 | 0.48 | 0.24 | 40 | |
| 1 | 50 | 14.04 | 14.03 | 33.411 | 24.953 | 300.7 | 0.150 | 5.73 | 97.8 | 4.1 | 0.48 | 2.0 | 0.03 | 0.42 | 0.18 | 50 | |
| 1 | 60 | 14.05 | 14.04 | 33.414 | 24.954 | 300.9 | 0.180 | 5.70 | 97.3 | 4.0 | 0.49 | 2.1 | 0.04 | 0.42 | 0.23 | 60 | |
| 1 | 71 | 13.98 | 13.97 | 33.416 | 24.970 | 299.6 | 0.213 | 5.66 | 96.4 | 4.2 | 0.51 | 2.5 | 0.04 | 0.38 | 0.18 | 72 | |
| 75 ISL | 13.93 | 13.92 | 33.416 | 24.981 | 298.8 | 0.225 | 5.66 | 96.4 | 4.2 | 0.51 | 2.5 | 0.04 | 0.37 | 0.19 | 76 | | |
| 1 | 80 | 13.76 | 13.76 | 33.416 | 25.014 | 295.7 | 0.240 | 5.64 | 95.7 | 4.2 | 0.52 | 2.6 | 0.04 | 0.35 | 0.20 | 81 | |
| 1 | 95 | 11.86 | 11.85 | 33.603 | 25.533 | 246.4 | 0.281 | 4.22 | 68.9 | 12.5 | 1.13 | 12.8 | 0.02 | 0.08 | 0.12 | 96 | |
| 100 ISL | 11.55 | 11.54 | 33.628 | 25.610 | 239.2 | 0.293 | 4.07 | 66.0 | 13.8 | 1.21 | 14.1 | 0.02 | 0.07 | 0.11 | 101 | | |
| 1 | U0 | 11.16 | 11.15 | 33.665 | 25.710 | 229.9 | 0.316 | 3.90 | 62.7 | 15.9 | 1.31 | 15.8 | 0.01 | 0.04 | 0.09 | 111 | |
| 125 ISL | 10.55 | 10.54 | 33.801 | 25.924 | 209.7 | 0.349 | 3.25 | 51.6 | 21.5 | 1.60 | 20.2 | 0.00 | 0.02 | 0.06 | 126 | | |
| 150 ISL | 9.96 | 9.94 | 33.907 | 26.109 | 192.7 | 0.399 | 2.94 | 46.1 | 25.7 | 1.77 | 22.8 | 0.00 | 0.01 | 0.04 | 151 | | |
| 1 | 152 | 9.93 | 9.91 | 33.912 | 26.118 | 191.8 | 0.403 | 2.94 | 46.1 | 25.9 | 1.78 | 22.9 | 0.00 | 0.01 | 0.04 | 153 | |
| 172 ISL | 9.64 | 9.62 | 34.005 | 26.239 | 180.7 | 0.441 | 2.69 | 41.9 | 29.9 | 1.90 | 24.7 | 0.00 | 0.01 | 0.04 | 173 | | |
| 200 ISL | 9.20 | 9.18 | 34.072 | 26.363 | 169.3 | 0.490 | 2.39 | 36.9 | 34.1 | 2.05 | 26.8 | 0.00 | 0.01 | 0.03 | 202 | | |
| 1 | 206 | 9.12 | 9.10 | 34.082 | 26.384 | 167.4 | 0.500 | 2.33 | 35.9 | 34.9 | 2.08 | 27.2 | 0.00 | 0.01 | 0.03 | 208 | |
| 1 | 235 | 8.87 | 8.84 | 34.143 | 26.472 | 159.6 | 0.547 | 2.00 | 30.7 | 38.5 | 2.21 | 28.6 | 0.00 | | | 237 | |
| 250 ISL | 8.64 | 8.61 | 34.163 | 26.524 | 154.9 | 0.571 | 1.83 | 27.9 | 41.2 | 2.29 | 29.6</ | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 A5

| LATITUDE 32 20.8 N | LONGITUDE 118 33.4 W | DAY/MO/YR 20/01/88 | MESSENGER 1831 | BOTTOM 1334 M | WIND 140 | SPEED 05 KT | WAVES 290 05 | WEATHER 08 | BAROMETER 1029.1 MB | DRY 14.3 C | WET 12.1 C | CLOUD 1/8 | TYPE | CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | 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 | PHAEO UG/L | PRESS D.BAR | |
|-----------------------|-------------------------|-----------------------|-------------------|------------------|-------------|----------------|-----------------|---------------|------------------------|---------------|---------------|--------------|------|------|------------|---------------|-------------------|--------------------|----------------|--------|--------|-------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|-----|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 ISL | 14.16 | 14.16 | 33.405 | 24.922 | 302.2 | 0.000 | 5.73 | 98.0 | 3.6 | 0.47 | 1.8 | 0.05 | 0.46 | 0.15 | 0 | 2 | 14.16 | 14.16 | 33.405 | 24.922 | 302.2 | 0.006 | 5.73 | 98.0 | 3.6 | 0.47 | 1.8 | 0.05 | 0.46 | 0.15 | 2 |
| 1 | 10 ISL | 14.12 | 14.12 | 33.403 | 24.929 | 301.8 | 0.030 | 5.74 | 98.1 | 3.7 | 0.48 | 1.8 | 0.05 | 0.50 | 0.16 | 10 | 17 | 14.07 | 14.07 | 33.401 | 24.938 | 301.1 | 0.051 | 5.74 | 98.0 | 3.7 | 0.48 | 1.8 | 0.05 | 0.54 | 0.18 | 17 |
| 1 | 20 ISL | 14.07 | 14.07 | 33.401 | 24.938 | 301.2 | 0.060 | 5.74 | 98.0 | 3.7 | 0.48 | 1.8 | 0.05 | 0.54 | 0.18 | 20 | 30 ISL | 14.07 | 14.07 | 33.401 | 24.939 | 301.4 | 0.090 | 5.73 | 97.9 | 3.6 | 0.47 | 1.8 | 0.05 | 0.54 | 0.20 | 30 |
| 1 | 32 ISL | 14.07 | 14.07 | 33.401 | 24.939 | 301.5 | 0.097 | 5.73 | 97.9 | 3.6 | 0.47 | 1.8 | 0.05 | 0.54 | 0.20 | 32 | 42 ISL | 14.08 | 14.07 | 33.401 | 24.937 | 302.0 | 0.127 | 5.73 | 97.9 | 3.5 | 0.47 | 1.8 | 0.05 | 0.50 | 0.23 | 42 |
| 1 | 50 ISL | 14.06 | 14.05 | 33.403 | 24.943 | 301.6 | 0.151 | 5.73 | 97.8 | 3.6 | 0.47 | 1.8 | 0.04 | 0.51 | 0.21 | 50 | 52 ISL | 14.06 | 14.05 | 33.403 | 24.943 | 301.7 | 0.157 | 5.73 | 97.8 | 3.6 | 0.47 | 1.8 | 0.04 | 0.52 | 0.20 | 52 |
| 1 | 62 ISL | 14.08 | 14.07 | 33.401 | 24.938 | 302.5 | 0.187 | 5.72 | 97.7 | 3.6 | 0.47 | 1.8 | 0.05 | 0.52 | 0.20 | 62 | 73 ISL | 14.05 | 14.04 | 33.402 | 24.945 | 302.1 | 0.220 | 5.74 | 98.0 | 3.4 | 0.47 | 1.8 | 0.05 | 0.50 | 0.19 | 74 |
| 1 | 75 ISL | 14.05 | 14.04 | 33.402 | 24.945 | 302.2 | 0.226 | 5.73 | 97.8 | 3.4 | 0.47 | 1.8 | 0.05 | 0.50 | 0.19 | 76 | 82 ISL | 14.05 | 14.04 | 33.402 | 24.945 | 302.4 | 0.248 | 5.70 | 97.3 | 3.5 | 0.48 | 1.9 | 0.05 | 0.49 | 0.17 | 83 |
| 1 | 97 ISL | 11.66 | 11.65 | 33.543 | 25.524 | 247.3 | 0.289 | 4.39 | 71.3 | 12.2 | 1.13 | 12.7 | 0.11 | 0.14 | 0.13 | 98 | 100 ISL | 11.41 | 11.40 | 33.567 | 25.589 | 241.2 | 0.296 | 4.22 | 68.2 | 13.4 | 1.21 | 14.1 | 0.10 | 0.13 | 0.12 | 101 |
| 1 | 112 ISL | 10.81 | 10.80 | 33.642 | 25.755 | 225.6 | 0.324 | 3.77 | 60.2 | 17.1 | 1.43 | 17.7 | 0.06 | 0.08 | 0.09 | 113 | 125 ISL | 10.40 | 10.39 | 33.692 | 25.865 | 215.3 | 0.353 | 3.57 | 56.5 | 19.7 | 1.53 | 19.5 | 0.03 | 0.06 | 0.10 | 126 |
| 1 | 127 ISL | 10.34 | 10.33 | 33.699 | 25.881 | 213.8 | 0.357 | 3.55 | 56.1 | 20.1 | 1.54 | 19.7 | 0.03 | 0.06 | 0.10 | 128 | 150 ISL | 9.27 | 9.25 | 33.873 | 26.195 | 184.2 | 0.403 | 3.35 | 51.7 | 26.5 | 1.72 | 23.1 | 0.01 | 0.01 | 0.04 | 151 |
| 1 | 151 ISL | 9.23 | 9.21 | 33.881 | 26.208 | 183.0 | 0.405 | 3.34 | 51.5 | 26.8 | 1.73 | 23.2 | 0.01 | 0.01 | 0.04 | 152 | 176 ISL | 9.07 | 9.05 | 33.999 | 26.327 | 172.3 | 0.449 | 3.00 | 46.2 | 31.1 | 1.87 | 25.0 | 0.01 | 0.00 | 0.04 | 177 |
| 1 | 200 ISL | 8.81 | 8.79 | 34.063 | 26.418 | 164.0 | 0.489 | 2.59 | 39.6 | 35.5 | 2.03 | 27.0 | 0.01 | 0.00 | 0.03 | 202 | 206 ISL | 8.74 | 8.72 | 34.073 | 26.437 | 162.3 | 0.499 | 2.49 | 38.0 | 36.6 | 2.07 | 27.5 | 0.01 | 0.00 | 0.03 | 208 |
| 1 | 235 ISL | 8.46 | 8.44 | 34.110 | 26.510 | 155.8 | 0.545 | 2.20 | 33.4 | 40.5 | 2.20 | 29.0 | 0.01 | 0.01 | 0.23 | 237 | 250 ISL | 8.28 | 8.25 | 34.141 | 26.561 | 151.1 | 0.568 | 1.91 | 28.9 | 43.9 | 2.32 | 30.3 | 0.01 | 0.01 | 0.25 | 252 |
| 1 | 275 ISL | 7.95 | 7.92 | 34.190 | 26.649 | 143.1 | 0.605 | 1.42 | 21.3 | 49.9 | 2.51 | 32.4 | 0.01 | 0.01 | 0.27 | 277 | 300 ISL | 7.63 | 7.60 | 34.203 | 26.707 | 137.9 | 0.640 | 1.18 | 17.6 | 54.2 | 2.62 | 33.9 | 0.01 | 0.01 | 0.302 | 302 |
| 1 | 329 ISL | 7.31 | 7.28 | 34.207 | 26.756 | 133.5 | 0.680 | 1.02 | 15.1 | 58.3 | 2.70 | 35.1 | 0.01 | 0.01 | 0.332 | 332 | 387 ISL | 6.97 | 6.93 | 34.250 | 26.837 | 126.5 | 0.755 | 0.67 | 9.8 | 65.4 | 2.86 | 36.8 | 0.00 | 0.00 | 0.390 | 390 |
| 1 | 400 ISL | 6.89 | 6.85 | 34.258 | 26.855 | 125.0 | 0.771 | 0.61 | 8.9 | 66.5 | 2.89 | 37.1 | 0.00 | 0.00 | 0.403 | 403 | 450 ISL | 6.57 | 6.53 | 34.287 | 26.921 | 119.2 | 0.832 | 0.44 | 6.4 | 70.7 | 2.98 | 38.3 | 0.01 | 0.01 | 0.454 | 454 |
| 1 | 500 ISL | 6.26 | 6.22 | 34.307 | 26.978 | 114.3 | 0.891 | 0.34 | 4.9 | 76.6 | 3.05 | 39.4 | 0.00 | 0.00 | 0.504 | 504 | 517 ISL | 6.16 | 6.11 | 34.314 | 26.996 | 112.7 | 0.910 | 0.30 | 4.3 | 78.6 | 3.08 | 39.8 | 0.00 | 0.00 | 0.521 | 521 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 50

| LATITUDE 32 10.7 N | LONGITUDE 118 53.8 W | DAY/MO/YR 20/01/88 | MESSENGER 2315 | BOTTOM 1446 M | WIND 310 | SPEED 08 KT | WAVES 300 04 | WEATHER 08 | BAROMETER 1027.9 MB | DRY 15.3 C | WET 12.9 C | CLOUD 1/8 | AMT | TYPE | CAST | DEPTH M | TEMP DEG C | POT TEMP DEG C | SALINITY PSS 78 | 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 | PHAEO UG/L | PRESS D.BAR |
|-----------------------|-------------------------|-----------------------|-------------------|------------------|-------------|----------------|-----------------|---------------|------------------------|---------------|---------------|--------------|------|------|--------|------------|---------------|-------------------|--------------------|----------------|--------|-------|-------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|----------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 ISL | 14.41 | 14.41 | 33.464 | 24.915 | 302.8 | 0.000 | 5.84 | 100.5 | 3.5 | 0.47 | 1.9 | 0.04 | 0.49 | 0.11 | 0 | 1 | 14.41 | 14.41 | 33.464 | 24.915 | 302.9 | 0.003 | 5.84 | 100.5 | 3.5 | 0.47 | 1.9 | 0.04 | 0.49 | 0.11 | 1 |
| 1 | 10 ISL | 14.04 | 14.04 | 33.430 | 24.967 | 298.2 | 0.030 | 5.86 | 100.0 | 3.9 | 0.50 | 2.1 | 0.06 | 0.53 | 0.16 | 10 | 16 ISL | 13.71 | 13.71 | 33.402 | 25.013 | 293.9 | 0.048 | 5.88 | 99.7 | 4.3 | 0.52 | 2.2 | 0.07 | 0.57 | 0.20 | 16 |
| 1 | 20 ISL | 13.69 | 13.69 | 33.401 | 25.017 | 293.7 | 0.060 | 5.88 | 99.6 | 4.3 | 0.52 | 2.2 | 0.07 | 0.60 | 0.21 | 20 | 30 ISL | 13.65 | 13.65 | 33.399 | 25.024 | 293.4 | 0.089 | 5.86 | 99.2 | 4.3 | 0.51 | 2.3 | 0.07 | 0.66 | 0.24 | 30 |
| 1 | 38 ISL | 13.62 | 13.61 | 33.398 | 25.029 | 293.0 | 0.112 | 5.83 | 98.6 | 4.3 | 0.51 | 2.3 | 0.07 | 0.69 | 0.25 | 38 | 50 ISL | 13.51 | 13.50 | 33.414 | 25.064 | 290.0 | 0.147 | 5.78 | 97.6 | 4.7 | 0.55 | 2.7 | 0.08 | 0.61 | 0.26 | 50 |
| 1 | 58 ISL | 13.38 | 13.37 | 33.429 | 25.102 | 286.6 | 0.170 | 5.75 | 96.8 | 5.0 | 0.57 | 3.3 | 0.08 | 0.52 | 0.27 | 58 | 73 ISL | 12.90 | 12.89 | 33.457 | 25.220 | 275.8 | 0.213 | 5.37 | 89.5 | 7.1 | 0.73 | 6.0 | 0.08 | 0.29 | 0.21 | 74 |
| 1 | 75 ISL | 12.63 | 12.62 | 33.469 | 25.282 | 269.9 | 0.218 | 5.19 | 86.1 | 8.1 | 0.80 | 7.3 | 0.07 | 0.25 | 0.19 | 76 | 82 ISL | 11.66 | 11.64 | 33.526 | 25.512 | 248.1 | 0.236 | 4.56 | 74.1 | 11.8 | 1.07 | 12.0 | 0.05 | 0.13 | 0.13 | 83 |
| 1 | 92 ISL | 10.96 | 10.95 | 33.602 | 25.697 | 230.7 | 0.260 | 4.09 | 65.5 | 15.0 | 1.29 | 15.6 | 0.03 | 0.06 | 0.11 | 93 | 100 ISL | 10.60 | 10.59 | 33.638 | 25.788 | 222.1 | 0.278 | 3.95 | 62.8 | 17.2 | 1.38 | 17.3 | 0.01 | 0.05 | 0.09 | 101 |
| 1 | 103 ISL | 10.50 | 10.49 | 33.649 | 25.814 | 219.7 | 0.285 | 3.92 | 62.1 | 17.9 | 1.41 | 17.8 | 0.01 | 0.05 | 0.08 | 104 | 113 ISL | 10.18 | 10.17 | 33.697 | 25.907 | 211.0 | 0.306 | 3.68 | 57.9 | 19.7 | 1.52 | 19.6 | 0.00 | 0.04 | 0.07 | 114 |
| 1 | 128 ISL | 9.68 | 9.67 | 33.813 | 26.081 | 194.7 | 0.337 | 3.34 | 52.0 | 24.2 | 1.68 | 22.5 | 0.00 | 0.02 | A 0.05 | A 129 | 143 ISL | 9.44 | 9.42 | 33.873 | 26.168 | 186.7 | 0.365 | 3.19 | 49.5 | 26.5 | 1.75 | 23.6 | 0.00 | 0.01 | 0.04 | 144 |
| 1 | 150 ISL | 9.23 | 9.21 | 33.908 | 26.229 | 181.0 | 0.378 | 3.17 | 48.9 | 28.0 | 1.78 | 24.2 | 0.00 | 0.01 | 0.04 | 151</td | | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 31 30.9 N | 120 14.9 W | 21/01/88 | 1330 UTC | 4000 M | 310 | 14 KT | | | 1026.2 MB | 12.7 C | 11.6 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 14.00 | 14.00 | 33.205 | 24.801 | 313.7 | 0.000 | 5.91 | 100.7 | 2.9 | 0.41 | 0.5 | 0.07 | 0.37 | 0.14 | 0 |
| 1 | 10 ISL | 13.96 | 13.96 | 33.202 | 24.807 | 313.4 | 0.031 | 5.92 | 100.8 | 3.0 | 0.41 | 0.5 | 0.07 | 0.36 | 0.14 | 10 |
| 1 | 14 | 13.95 | 13.95 | 33.201 | 24.809 | 313.4 | 0.044 | 5.93 | 100.9 | 3.0 | 0.41 | 0.5 | 0.07 | 0.36 | 0.14 | 14 |
| 1 | 20 ISL | 13.95 | 13.95 | 33.201 | 24.809 | 313.5 | 0.063 | 5.93 | 100.9 | 3.0 | 0.41 | 0.5 | 0.07 | 0.36 | 0.14 | 20 |
| 1 | 30 ISL | 13.96 | 13.96 | 33.201 | 24.807 | 314.0 | 0.094 | 5.92 | 100.8 | 3.1 | 0.41 | 0.5 | 0.07 | 0.36 | 0.15 | 30 |
| 1 | 35 | 13.96 | 13.96 | 33.201 | 24.807 | 314.1 | 0.110 | 5.92 | 100.8 | 3.1 | 0.41 | 0.5 | 0.07 | 0.36 | 0.15 | 35 |
| 1 | 50 ISL | 13.95 | 13.94 | 33.204 | 24.812 | 314.1 | 0.157 | 5.90 | 100.4 | 3.1 | 0.42 | 0.6 | 0.08 | 0.35 | 0.16 | 50 |
| 1 | 54 | 13.94 | 13.93 | 33.204 | 24.814 | 314.0 | 0.169 | 5.90 | 100.4 | 3.1 | 0.42 | 0.6 | 0.08 | 0.35 | 0.16 | 54 |
| 1 | 69 | 13.90 | 13.89 | 33.202 | 24.821 | 313.7 | 0.217 | 5.91 | 100.5 | 2.7 | 0.42 | 0.6 | 0.08 | 0.40 | 0.16 | 70 |
| 1 | 75 ISL | 13.90 | 13.89 | 33.207 | 24.825 | 313.5 | 0.235 | 5.90 | 100.3 | 2.9 | 0.42 | 0.7 | 0.09 | 0.36 | 0.15 | 76 |
| 1 | 77 | 13.90 | 13.89 | 33.209 | 24.827 | 313.4 | 0.242 | 5.89 | 100.1 | 2.9 | 0.42 | 0.7 | 0.09 | 0.33 | 0.15 | 78 |
| 1 | 87 | 12.94 | 12.93 | 33.275 | 25.072 | 290.3 | 0.272 | 5.44 | 90.7 | 5.1 | 0.62 | 4.3 | 0.07 | 0.10 | 0.12 | 88 |
| 1 | 96 | 11.97 | 11.96 | 33.325 | 25.297 | 268.9 | 0.297 | 5.06 | 82.7 | 7.6 | 0.83 | 8.0 | 0.03 | 0.08 | 0.09 | 97 |
| 100 ISL | 11.73 | 11.72 | 33.348 | 25.359 | 263.0 | 0.308 | 4.95 | 80.5 | 8.5 | 0.90 | 9.2 | 0.03 | 0.07 | 0.09 | 101 | |
| 107 | 11.43 | 11.42 | 33.395 | 25.451 | 254.4 | 0.326 | 4.74 | 76.6 | 10.3 | 1.01 | 11.1 | 0.03 | 0.06 | 0.09 | 108 | |
| 121 | 10.81 | 10.80 | 33.554 | 25.686 | 232.3 | 0.360 | 4.01 | 64.0 | 15.8 | 1.34 | 16.6 | 0.01 | 0.03 | 0.08 | 122 | |
| 125 ISL | 10.59 | 10.58 | 33.585 | 25.749 | 226.4 | 0.369 | 3.99 | 63.4 | 16.8 | 1.39 | 17.5 | 0.01 | 0.03 | 0.07 | 126 | |
| 137 | 9.96 | 9.94 | 33.662 | 25.917 | 210.5 | 0.395 | 3.93 | 61.6 | 19.0 | 1.46 | 19.0 | 0.01 | 0.02 | 0.04 | 138 | |
| 150 ISL | 9.59 | 9.57 | 33.740 | 26.040 | 199.1 | 0.422 | 3.92 | 60.9 | 20.7 | 1.50 | 19.9 | 0.01 | 0.01 | 0.03 | 151 | |
| 157 | 9.44 | 9.42 | 33.782 | 26.097 | 193.7 | 0.436 | 3.92 | 60.7 | 21.6 | 1.51 | 20.3 | 0.01 | 0.01 | 0.03 | 158 | |
| 177 | 8.81 | 8.79 | 33.918 | 26.304 | 174.3 | 0.472 | 3.88 | 59.3 | 26.0 | 1.59 | 22.1 | 0.01 | 0.00 | 0.02 | 178 | |
| 200 ISL | 8.44 | 8.42 | 33.975 | 26.406 | 164.9 | 0.511 | 3.93 | 59.6 | 29.2 | 1.62 | 22.8 | 0.01 | 0.00 | 0.02 | 202 | |
| 202 | 8.41 | 8.39 | 33.977 | 26.412 | 164.3 | 0.515 | 3.93 | 59.6 | 29.5 | 1.63 | 22.9 | 0.01 | 0.00 | 0.02 | 204 | |
| 231 | 7.88 | 7.86 | 34.013 | 26.520 | 154.4 | 0.561 | 3.14 | 47.0 | 38.0 | 1.94 | 27.3 | 0.00 | | | 233 | |
| 250 ISL | 7.50 | 7.48 | 34.019 | 26.580 | 148.9 | 0.590 | 2.86 | 42.4 | 42.5 | 2.07 | 29.2 | 0.00 | | | 252 | |
| 272 | 7.12 | 7.09 | 34.023 | 26.636 | 143.7 | 0.622 | 2.60 | 38.3 | 47.1 | 2.19 | 30.9 | 0.00 | | | 274 | |
| 300 ISL | 6.89 | 6.86 | 34.048 | 26.688 | 139.1 | 0.661 | 2.13 | 31.2 | 52.1 | 2.36 | 33.0 | 0.00 | | | 302 | |
| 328 | 6.75 | 6.72 | 34.077 | 26.730 | 135.5 | 0.700 | 1.67 | 24.4 | 56.6 | 2.52 | 34.9 | 0.00 | | | 331 | |
| 386 | 6.28 | 6.25 | 34.128 | 26.833 | 126.3 | 0.776 | 1.05 | 15.2 | 66.4 | 2.76 | 37.9 | 0.00 | | | 389 | |
| 400 ISL | 6.19 | 6.15 | 34.140 | 26.854 | 124.4 | 0.793 | 0.94 | 13.5 | 68.4 | 2.81 | 38.4 | 0.00 | | | 403 | |
| 449 | 5.89 | 5.85 | 34.185 | 26.927 | 117.8 | 0.853 | 0.63 | 9.0 | 75.3 | 2.94 | 39.9 | 0.00 | | | 453 | |
| 500 ISL | 5.63 | 5.59 | 34.251 | 27.012 | 110.3 | 0.911 | 0.41 | 5.8 | 85.1 | 3.05 | 41.0 | 0.00 | | | 504 | |
| 515 | 5.55 | 5.51 | 34.271 | 27.038 | 107.9 | 0.927 | 0.34 | 4.8 | 85.4 | 3.08 | 41.3 | 0.00 | | | 519 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 80

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|------|-----------|--------|--------|--------|-------|-------|
| 31 10.8 N | 120 55.1 W | 21/01/88 | 2011 UTC | 3924 M | 320 | 20 KT | 330 | 05 | 05 | 1 | 1025.9 MB | 14.5 C | 13.1 C | 4/8 CS | | |
| 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 | PSS 78 | THETA | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 14.58 | 14.58 | 33.201 | 24.676 | 3 25.6 | 0.000 | 5.87 | 101.2 | 2.4 | 0.37 | 0.1 | 0.02 | 0.27 | 0.12 | 0 | |
| 3 | 14.58 | 14.58 | 33.201 | 24.676 | 3 25.7 | 0.010 | 5.87 | 101.2 | 2.4 | 0.37 | 0.1 | 0.02 | 0.27 | 0.12 | 3 | |
| 10 ISL | 14.57 | 14.57 | 33.200 | 24.678 | 325.7 | 0.033 | 5.87 | 101.2 | 2.4 | 0.37 | 0.1 | 0.02 | 0.27 | 0.11 | 10 | |
| 17 | 14.56 | 14.56 | 33.199 | 24.679 | 3 25.8 | 0.055 | 5.88 | 101.3 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.10 | 17 | |
| 20 ISL | 14.56 | 14.56 | 33.199 | 24.679 | 325.9 | 0.065 | 5.88 | 101.3 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.10 | 20 | |
| 30 ISL | 14.55 | 14.55 | 33.199 | 24.682 | 3 25.9 | 0.098 | 5.88 | 101.3 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.11 | 30 | |
| 36 | 14.55 | 14.54 | 33.200 | 24.683 | 326.0 | 0.117 | 5.88 | 101.3 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.11 | 36 | |
| 50 ISL | 14.56 | 14.55 | 33.201 | 24.682 | 326.5 | 0.163 | 5.87 | 101.1 | 2.4 | 0.36 | 0.1 | 0.02 | 0.29 | 0.12 | 50 | |
| 56 | 14.56 | 14.55 | 33.201 | 24.682 | 3 26.7 | 0.183 | 5.87 | 101.1 | 2.4 | 0.36 | 0.1 | 0.02 | 0.29 | 0.12 | 56 | |
| 72 | 14.55 | 14.54 | 33.200 | 24.684 | 327.0 | 0.235 | 5.90 | 101.6 | 2.4 | 0.36 | 0.1 | 0.02 | 0.30 | 0.13 | 73 | |
| 75 ISL | 14.55 | 14.54 | 33.200 | 24.684 | 327.0 | 0.245 | 5.89 | 101.4 | 2.4 | 0.36 | 0.1 | 0.02 | 0.29 | 0.13 | 76 | |
| 79 | 14.56 | 14.55 | 33.200 | 24.682 | 327.3 | 0.258 | 5.87 | 101.1 | 2.4 | 0.36 | 0.1 | 0.02 | 0.28 | 0.12 | 80 | |
| 90 | 14.55 | 14.54 | 33.204 | 24.688 | 3 27.1 | 0.294 | 5.87 | 101.1 | 2.4 | 0.36 | 0.1 | 0.02 | 0.28 | 0.13 | 91 | |
| 99 | 14.53 | 14.52 | 33.198 | 24.688 | 327.4 | 0.323 | 5.86 | 100.9 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.13 | 100 | |
| 100 ISL | 14.53 | 14.52 | 33.198 | 24.688 | 327.4 | 0.326 | 5.86 | 100.9 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.13 | 101 | |
| 109 | 14.49 | 14.47 | 33.199 | 24.697 | 326.8 | 0.356 | 5.88 | 101.1 | 2.4 | 0.37 | 0.1 | 0.02 | 0.24 | 0.12 | 110 | |
| 123 | 12.84 | 12.82 | 33.361 | 25.159 | 282.9 | 0.399 | 5.33 | 88.7 | 5.3 | 0.63 | 4.8 | 0.03 | 0.12 | 0.16 | 124 | |
| 125 ISL | 12.76 | 12.74 | 33.376 | 25.186 | 280.4 | 0.404 | 5.29 | 87.9 | 5.5 | 0.65 | 5.1 | 0.03 | 0.11 | 0.15 | 126 | |
| 137 | 12.42 | 12.40 | 33.448 | 25.308 | 269.0 | 0.437 | 5.11 | 84.3 | 6.9 | 0.73 | 6.9 | 0.02 | 0.08 | 0.10 | 138 | |
| 150 ISL | 11.43 | 11.41 | 33.537 | 25.563 | 244.9 | 0.471 | 4.83 | 78.1 | 10.1 | 0.93 | 10.5 | 0.01 | 0.05 | 0.06 | 151 | |
| 158 | 10.79 | 10.77 | 33.590 | 25.719 | 230.1 | 0.490 | 4.67 | 74.5 | 12.2 | 1.05 | 12.7 | 0.01 | 0.04 | 0.05 | 159 | |
| 178 | 10.07 | 10.05 | 33.648 | 25.888 | 214.2 | 0.534 | 4.44 | 69.7 | 15.4 | 1.21 | 15.3 | 0.01 | 0.02 | 0.04 | 179 | |
| 200 ISL | 9.61 | 9.59 | 33.805 | 26.088 | 195.5 | 0.579 | 4.35 | 67.7 | 19.0 | 1.31 | 17.7 | 0.00 | 0.01 | 0.02 | 202 | |
| 202 | 9.58 | 9.56 | 33.820 | 26.105 | 194.0 | 0.583 | 4.35 | 67.6 | 19.3 | 1.32 | 17.9 | 0.00 | 0.01 | 0.02 | 204 | |
| 230 | 9.03 | 9.01 | 33.908 | 26.263 | 179.4 | 0.635 | 4.18 | 64.2 | 23.9 | 1.46 | 20.3 | 0.00 | | | 232 | |
| 250 ISL | 8.57 | 8.54 | 33.951 | 26.368 | 169.5 | 0.670 | 4.00 | 60.8 | 28.2 | 1.58 | 22.4 | 0.01 | | | 252 | |
| 269 | 8.14</ | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 30 50.9 N | 121 35.4 W | 22/01/88 | 0417 UTC | 4209 M | 3 20 | 23 KT | | | 1023.9 MB | 14.0 C | 12.8 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.48 | 15.48 | 33.426 | 24.654 | 327.7 | 0.000 | 5.77 | 101.4 | 2.3 | 0.32 | 0.0 | 0.00 | 0.22 | 0.08 | 0 |
| 1 | 10 ISL | 15.49 | 15.49 | 33.426 | 24.654 | 327.7 | 0.003 | 5.77 | 101.4 | 2.3 | 0.32 | 0.0 | 0.00 | 0.22 | 0.08 | 1 |
| 1 | 16 ISL | 15.50 | 15.50 | 33.424 | 24.649 | 328.2 | 0.033 | 5.78 | 101.6 | 2.4 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 16 |
| 1 | 20 ISL | 15.50 | 15.50 | 33.424 | 24.649 | 328.8 | 0.066 | 5.78 | 101.6 | 2.5 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 20 |
| 1 | 30 ISL | 15.49 | 15.49 | 33.423 | 24.651 | 328.9 | 0.099 | 5.77 | 101.4 | 2.5 | 0.32 | 0.0 | 0.00 | 0.21 | 0.07 | 30 |
| 1 | 36 ISL | 15.49 | 15.48 | 33.423 | 24.651 | 329.1 | 0.118 | 5.77 | 101.4 | 2.5 | 0.32 | 0.0 | 0.00 | 0.21 | 0.07 | 36 |
| 1 | 50 ISL | 15.51 | 15.50 | 33.421 | 24.646 | 330.1 | 0.164 | 5.77 | 101.4 | 2.6 | 0.32 | 0.0 | 0.00 | 0.22 | 0.08 | 50 |
| 1 | 55 ISL | 15.51 | 15.50 | 33.421 | 24.646 | 330.2 | 0.181 | 5.77 | 101.4 | 2.6 | 0.32 | 0.0 | 0.00 | 0.22 | 0.08 | 55 |
| 1 | 70 ISL | 15.49 | 15.48 | 33.422 | 24.651 | 330.1 | 0.230 | 5.78 | 101.6 | 2.3 | 0.31 | 0.0 | 0.00 | 0.22 | 0.08 | 71 |
| 1 | 75 ISL | 15.50 | 15.49 | 33.422 | 24.649 | 330.5 | 0.247 | 5.78 | 101.6 | 2.4 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 76 |
| 1 | 79 ISL | 15.51 | 15.50 | 33.422 | 24.647 | 330.8 | 0.260 | 5.78 | 101.6 | 2.5 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 80 |
| 1 | 89 ISL | 15.49 | 15.48 | 33.423 | 24.653 | 330.6 | 0.293 | 5.77 | 101.4 | 2.1 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 90 |
| 1 | 98 ISL | 15.51 | 15.49 | 33.423 | 24.649 | 331.3 | 0.323 | 5.76 | 101.2 | 2.1 | 0.32 | 0.0 | 0.00 | 0.21 | 0.07 | 99 |
| 100 ISL | 15.51 | 15.49 | 33.423 | 24.649 | 331.3 | 0.330 | 5.76 | 101.2 | 2.1 | 0.32 | 0.0 | 0.00 | 0.21 | 0.07 | 101 | |
| 108 ISL | 15.51 | 15.49 | 33.423 | 24.649 | 331.6 | 0.356 | 5.76 | 101.2 | 2.1 | 0.32 | 0.0 | 0.00 | 0.22 | 0.07 | 109 | |
| 123 ISL | 14.18 | 14.16 | 33.617 | 25.085 | 290.2 | 0.403 | 5.44 | 93.2 | 3.6 | 0.43 | 2.1 | 0.07 | 14.1 | 0.20 | 124 | |
| 125 ISL | 14.04 | 14.02 | 33.632 | 25.126 | 286.4 | 0.409 | 5.41 | 92.4 | 3.8 | 0.45 | 2.4 | 0.07 | 15.1 | 0.19 | 126 | |
| 138 ISL | 13.15 | 13.13 | 33.676 | 25.342 | 266.0 | 0.445 | 5.20 | 87.3 | 5.1 | 0.57 | 5.0 | 0.02 | 0.09 | 0.12 | 139 | |
| 150 ISL | 12.15 | 12.13 | 33.625 | 25.497 | 251.3 | 0.476 | 5.03 | 82.6 | 7.1 | 0.74 | 7.7 | 0.01 | 0.06 | 0.10 | 151 | |
| 157 ISL | 11.58 | 11.56 | 33.597 | 25.582 | 243.3 | 0.493 | 4.93 | 80.0 | 8.5 | 0.85 | 9.4 | 0.01 | 0.05 | 0.09 | 158 | |
| 177 ISL | 10.44 | 10.42 | 33.690 | 25.858 | 217.2 | 0.539 | 4.58 | 72.5 | 13.7 | 1.11 | 14.1 | 0.00 | 0.02 | 0.04 | 178 | |
| 200 ISL | 9.45 | 9.43 | 33.844 | 26.145 | 190.1 | 0.586 | 4.19 | 65.0 | 20.3 | 1.39 | 19.0 | 0.00 | 0.01 | 0.03 | 202 | |
| 201 ISL | 9.42 | 9.40 | 33.851 | 26.155 | 189.2 | 0.588 | 4.17 | 64.6 | 20.6 | 1.40 | 19.2 | 0.00 | 0.01 | 0.03 | 203 | |
| 230 ISL | 8.77 | 8.75 | 33.956 | 26.341 | 171.8 | 0.640 | 3.86 | 59.0 | 27.0 | 1.60 | 22.5 | 0.00 | | | 232 | |
| 250 ISL | 8.38 | 8.35 | 33.991 | 26.429 | 163.7 | 0.674 | 3.64 | 55.1 | 31.0 | 1.72 | 24.4 | 0.00 | | | 252 | |
| 269 ISL | 8.04 | 8.01 | 34.006 | 26.492 | 157.9 | 0.704 | 3.44 | 51.7 | 34.7 | 1.83 | 25.9 | 0.00 | | | 271 | |
| 300 ISL | 7.51 | 7.48 | 34.008 | 26.570 | 150.7 | 0.752 | 3.19 | 47.4 | 40.3 | 1.97 | 28.1 | 0.00 | | | 302 | |
| 324 ISL | 7.16 | 7.13 | 34.006 | 26.618 | 146.3 | 0.788 | 2.95 | 43.4 | 44.7 | 2.08 | 29.8 | 0.00 | | | 327 | |
| 383 ISL | 6.60 | 6.57 | 34.054 | 26.732 | 136.0 | 0.871 | 1.84 | 26.7 | 57.6 | 2.49 | 35.1 | 0.00 | | | 386 | |
| 400 ISL | 6.44 | 6.40 | 34.065 | 26.762 | 133.3 | 0.894 | 1.63 | 23.6 | 60.6 | 2.57 | 36.1 | 0.00 | | | 403 | |
| 449 ISL | 6.03 | 5.99 | 34.101 | 26.844 | 125.9 | 0.957 | 1.18 | 16.9 | 68.6 | 2.76 | 38.3 | 0.00 | | | 453 | |
| 500 ISL | 5.74 | 5.70 | 34.155 | 26.923 | 118.8 | 1.020 | 0.79 | 11.3 | 76.7 | 2.92 | 40.1 | 0.00 | | | 504 | |
| 520 ISL | 5.62 | 5.58 | 34.177 | 26.955 | 115.9 | 1.043 | 0.64 | 9.1 | 79.9 | 2.98 | 40.8 | 0.00 | | | 524 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|--------|--------|-------|------|-------|--------|-------|
| 30 30.9 N | 122 15.5 W | 22/01/88 | 1245 UTC | 4137 M | 030 | 20 KT | | | 1024.9 MB | 14.3 C | 12.9 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 15.36 | 15.36 | 33.413 | 24.671 | 326.1 | 0.000 | 5.77 | 101.1 | 2.2 | 0.33 | 0.2 | 0.00 | 0.21 | 0.07 | 0 |
| 10 ISL | 15.37 | 15.37 | 33.412 | 24.668 | 326.7 | 0.033 | 5.78 | 101.3 | 2.2 | 0.33 | 0.2 | 0.00 | 0.20 | 0.07 | 10 | |
| 16 ISL | 15.38 | 15.38 | 33.412 | 24.666 | 327.1 | 0.052 | 5.78 | 101.4 | 2.2 | 0.33 | 0.2 | 0.00 | 0.20 | 0.07 | 16 | |
| 20 ISL | 15.39 | 15.39 | 33.412 | 24.664 | 327.4 | 0.065 | 5.78 | 101.4 | 2.1 | 0.33 | 0.2 | 0.00 | 0.20 | 0.06 | 20 | |
| 30 ISL | 15.40 | 15.40 | 33.411 | 24.661 | 327.9 | 0.098 | 5.77 | 101.2 | 2.0 | 0.33 | 0.2 | 0.01 | 0.21 | 0.05 | 30 | |
| 36 ISL | 15.41 | 15.40 | 33.410 | 24.659 | 328.4 | 0.118 | 5.77 | 101.2 | 1.9 | 0.33 | 0.2 | 0.01 | 0.22 | 0.05 | 36 | |
| 50 ISL | 15.42 | 15.41 | 33.410 | 24.657 | 329.0 | 0.164 | 5.78 | 101.4 | 1.9 | 0.33 | 0.2 | 0.00 | 0.21 | 0.07 | 50 | |
| 56 ISL | 15.42 | 15.41 | 33.410 | 24.657 | 329.1 | 0.184 | 5.78 | 101.4 | 1.9 | 0.33 | 0.2 | 0.00 | 0.20 | 0.08 | 56 | |
| 71 ISL | 15.43 | 15.42 | 33.409 | 24.655 | 329.9 | 0.233 | 5.78 | 101.4 | 1.9 | 0.33 | 0.2 | 0.00 | 0.21 | 0.06 | 72 | |
| 75 ISL | 15.43 | 15.42 | 33.409 | 24.655 | 330.0 | 0.246 | 5.77 | 101.3 | 1.9 | 0.33 | 0.2 | 0.00 | 0.21 | 0.06 | 76 | |
| 81 ISL | 15.43 | 15.42 | 33.408 | 24.654 | 330.2 | 0.266 | 5.76 | 101.1 | 2.0 | 0.33 | 0.2 | 0.00 | 0.21 | 0.07 | 82 | |
| 91 ISL | 15.41 | 15.40 | 33.409 | 24.660 | 330.0 | 0.299 | 5.77 | 101.2 | 2.0 | 0.33 | 0.2 | 0.00 | 0.21 | 0.08 | 92 | |
| 100 ISL | 15.42 | 15.40 | 33.433 | 24.676 | 328.7 | 0.329 | 5.77 | 101.2 | 2.0 | 0.33 | 0.2 | 0.02 | 0.21 | 0.08 | 101 | |
| 111 ISL | 14.45 | 14.43 | 33.633 | 25.041 | 294.2 | 0.363 | 5.48 | 94.4 | 3.1 | 0.41 | 1.8 | 0.09 | 0.14 | 0.15 | 112 | |
| 125 ISL | 13.23 | 13.21 | 33.583 | 25.254 | 274.1 | 0.403 | 5.25 | 88.2 | 5.1 | 0.60 | 4.9 | 0.03 | 0.08 | 0.11 | 126 | |
| 126 ISL | 13.16 | 13.14 | 33.575 | 25.261 | 273.3 | 0.405 | 5.24 | 87.9 | 5.2 | 0.61 | 5.1 | 0.02 | 0.08 | 0.10 | 127 | |
| 141 ISL | 12.64 | 12.62 | 33.624 | 25.402 | 260.3 | 0.445 | 5.09 | 84.5 | 6.3 | 0.67 | 6.6 | 0.01 | 0.06 | 0.08 | 142 | |
| 150 ISL | 12.24 | 12.22 | 33.618 | 25.475 | 253.5 | 0.469 | 5.00 | 82.3 | 7.3 | 0.75 | 7.9 | 0.00 | 0.05 | 0.07 | 151 | |
| 161 ISL | 11.69 | 11.67 | 33.611 | 25.573 | 244.3 | 0.496 | 4.87 | 79.2 | 9.0 | 0.87 | 9.9 | 0.00 | 0.04 | 0.05 | 162 | |
| 182 ISL | 10.45 | 10.43 | 33.693 | 25.859 | 217.2 | 0.544 | 4.58 | 72.5 | 13.6 | 1.12 | 14.4 | 0.00 | 0.02 | 0.04 | 183 | |
| 200 ISL | 9.57 | 9.55 | 33.828 | 26.112 | 193.2 | 0.581 | 4.22 | 65.6 | 19.9 | 1.38 | 18.7 | 0.00 | 0.01 | 0.03 | 202 | |
| 206 ISL | 9.33 | 9.31 | 33.873 | 26.187 | 186.2 | 0.593 | 4.12 | 63.7 | 21.9 | 1.45 | 20.0 | 0.00 | 0.00 | 0.02 | 208 | |
| 235 ISL | 8.68 | 8.66 | 33.962 | 26.360 | 170.1 | 0.644 | 4.06 | 61.9 | 26.6 | 1.57 | 22.0 | 0.00 | | | 237 | |
| 250 ISL | 8.41 | 8.38 | 33.986 | 26.420 | 164.5 | 0.669 | 3.87 | 58.6 | 29.7 | 1.66 | 23.5 | 0.00 | | | 252 | |
| 274 ISL | 8.03 | 8.00 | 34.010 | 26.496 | 157.5 | 0.708 | 3.46 | 52.0 | 35.0 | 1.82 | 26.0 | 0.00 | | | 276 | |
| 300 ISL | 7.65 | 7.62 | 34.032 | 26.569 | 150.9 | 0.748 | 2.98 | 44.4 | 40.9 | 2.02 | 28.7 | 0.00 | | | 3 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 IIO

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 30 10.8 N | 122 55.4 W | 22/01/88 | 1837 UTC | 3928 M | 050 | 18 KT | 010 05 07 | 0 | 1027.2 MB | 16.9 C | 14.7 C | 0/8 | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 16.35 | 16.35 | 33.721 | 24.685 | 324.7 | 0.000 | 5.65 | 101.2 | 2.1 | 0.27 | 0.1 | 0.00 | 0.15 | 0.06 | 0 |
| 1 | 10 ISL | 16.33 | 16.33 | 33.720 | 24.689 | 324.7 | 0.032 | 5.64 | 100.9 | 2.2 | 0.27 | 0.1 | 0.00 | 0.13 | 0.05 | 10 |
| 1 | 15 | 16.32 | 16.32 | 33.720 | 24.692 | 324.6 | 0.049 | 5.64 | 100.9 | 2.3 | 0.27 | 0.1 | 0.00 | 0.12 | 0.05 | 15 |
| 20 ISL | 16.32 | 16.32 | 33.720 | 24.692 | 324.8 | 0.065 | 5.64 | 100.9 | 2.3 | 0.27 | 0.1 | 0.00 | 0.12 | 0.05 | 20 | |
| 30 ISL | 16.33 | 16.33 | 33.720 | 24.690 | 325.3 | 0.097 | 5.64 | 100.9 | 2.4 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 30 | |
| 1 | 35 | 16.33 | 16.32 | 33.720 | 24.690 | 325.4 | 0.114 | 5.64 | 100.9 | 2.4 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 35 |
| 50 ISL | 16.35 | 16.34 | 33.720 | 24.686 | 326.3 | 0.163 | 5.65 | 101.1 | 2.5 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 50 | |
| 1 | 55 | 16.35 | 16.34 | 33.720 | 24.686 | 326.5 | 0.179 | 5.65 | 101.1 | 2.5 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 55 |
| 1 | 71 | 16.33 | 16.32 | 33.724 | 24.694 | 326.2 | 0.231 | 5.66 | 101.3 | 2.5 | 0.26 | 0.1 | 0.00 | 0.13 | 0.05 | 72 |
| 75 ISL | 16.34 | 16.33 | 33.722 | 24.691 | 326.7 | 0.244 | 5.66 | 101.3 | 2.4 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 76 | |
| 1 | 78 | 16.35 | 16.34 | 33.720 | 24.687 | 327.1 | 0.254 | 5.66 | 101.3 | 2.4 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 79 |
| 1 | 89 | 16.33 | 16.32 | 33.720 | 24.692 | 327.0 | 0.290 | 5.64 | 100.9 | 2.5 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 90 |
| 1 | 97 | 16.34 | 16.32 | 33.720 | 24.690 | 327.5 | 0.316 | 5.67 | 101.5 | 2.6 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 98 |
| 100 ISL | 16.31 | 16.29 | 33.721 | 24.698 | 326.8 | 0.326 | 5.66 | 101.2 | 2.6 | 0.26 | 0.1 | 0.00 | 0.12 | 0.05 | 101 | |
| 1 | 108 | 16.22 | 16.20 | 33.723 | 24.720 | 324.9 | 0.352 | 5.64 | 100.7 | 2.7 | 0.26 | 0.1 | 0.01 | 0.13 | 0.06 | 109 |
| 1 | 124 | 14.89 | 14.87 | 33.791 | 25.069 | 292.0 | 0.401 | 5.46 | 95.0 | 3.5 | 0.35 | 1.4 | 0.05 | 0.16 | 0.19 | 125 |
| 125 ISL | 14.82 | 14.80 | 33.795 | 25.087 | 290.3 | 0.404 | 5.44 | 94.5 | 3.6 | 0.36 | 1.5 | 0.05 | 0.15 | 0.19 | 126 | |
| 1 | 138 | 13.95 | 13.93 | 33.810 | 25.283 | 271.9 | 0.441 | 5.24 | 89.5 | 4.7 | 0.46 | 3.6 | 0.02 | 0.07 | 0.10 | 139 |
| 150 ISL | 12.83 | 12.81 | 33.734 | 25.450 | 256.0 | 0.472 | 5.09 | 84.9 | 6.4 | 0.62 | 6.2 | 0.01 | 0.05 | 0.07 | 151 | |
| 158 | 12.09 | 12.07 | 33.683 | 25.554 | 246.2 | 0.493 | 4.99 | 81.9 | 7.8 | 0.74 | 8.1 | 0.01 | 0.04 | 0.06 | 159 | |
| 1 | 178 | 10.94 | 10.92 | 33.695 | 25.774 | 225.3 | 0.540 | 4.70 | 75.2 | 11.8 | 1.00 | 12.5 | 0.01 | 0.02 | 0.04 | 179 |
| 200 ISL | 9.79 | 9.77 | 33.793 | 26.049 | 199.3 | 0.586 | 4.45 | 69.5 | 16.4 | 1.26 | 17.0 | 0.01 | 0.01 | 0.02 | 202 | |
| 201 | 9.75 | 9.73 | 33.798 | 26.059 | 198.3 | 0.588 | 4.44 | 69.3 | 16.6 | 1.27 | 17.2 | 0.01 | | | 203 | |
| 231 | 9.06 | 9.03 | 33.907 | 26.257 | 179.9 | 0.645 | 4.09 | 62.9 | 23.7 | 1.49 | 20.8 | 0.01 | | | 233 | |
| 250 ISL | 8.66 | 8.63 | 33.955 | 26.358 | 170.6 | 0.678 | 3.88 | 59.1 | 27.8 | 1.61 | 22.8 | 0.01 | | | 252 | |
| 272 | 8.23 | 8.20 | 33.995 | 26.455 | 161.6 | 0.715 | 3.59 | 54.2 | 32.6 | 1.75 | 25.0 | 0.00 | | | 274 | |
| 300 ISL | 7.75 | 7.72 | 34.026 | 26.550 | 152.7 | 0.759 | 3.04 | 45.4 | 39.6 | 1.98 | 28.2 | 0.00 | | | 302 | |
| 325 | 7.39 | 7.36 | 34.042 | 26.615 | 146.8 | 0.796 | 2.54 | 37.6 | 45.7 | 2.18 | 30.8 | 0.00 | | | 328 | |
| 383 | 6.75 | 6.71 | 34.073 | 26.727 | 136.6 | 0.879 | 1.78 | 26.0 | 56.5 | 2.49 | 34.9 | 0.00 | | | 386 | |
| 400 ISL | 6.57 | 6.53 | 34.087 | 26.763 | 133.4 | 0.902 | 1.56 | 22.7 | 59.8 | 2.58 | 36.0 | 0.00 | | | 403 | |
| 446 | 6.15 | 6.11 | 34.129 | 26.851 | 125.3 | 0.961 | 1.04 | 15.0 | 68.4 | 2.78 | 38.5 | 0.01 | | | 450 | |
| 500 ISL | 5.81 | 5.77 | 34.177 | 26.932 | 118.0 | 1.027 | 0.72 | 10.5 | 76.2 | 2.93 | 40.2 | 0.00 | | | 504 | |
| 514 | 5.72 | 5.68 | 34.190 | 26.953 | 116.1 | 1.043 | 0.64 | 9.1 | 78.2 | 2.97 | 40.7 | 0.00 | | | 518 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 120

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-------|------|-------|-------|-------|
| 29 50.9 N | 123 35.2 W | 23/01/88 | 0147 UTC | 4271 M | 040 | 17 KT | 020 05 06 | 0 | 1027.0 MB | 16.9 C | 14.0 C | 0/8 | | | | |
| CAST | DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | CHL-A | PHAE0 | PRESS |
| M | DEG C | DEG C | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 0 ISL | 16.00 | 16.00 | 33.574 | 24.652 | 327.9 | 0.000 | 5.71 | 101.5 | 2.1 | 0.28 | 0.1 | 0.00 | 0.12 | 0.04 | 0 | |
| 1 | 16.00 | 16.00 | 33.574 | 24.652 | 327.9 | 0.003 | 5.71 | 101.5 | 2.1 | 0.28 | 0.1 | 0.00 | 0.12 | 0.04 | 1 | |
| 10 ISL | 16.00 | 16.00 | 33.571 | 24.650 | 328.4 | 0.033 | 5.72 | 101.6 | 2.2 | 0.28 | 0.1 | 0.00 | 0.12 | 0.04 | 10 | |
| 1 | 16 | 16.00 | 16.00 | 33.570 | 24.649 | 328.7 | 0.053 | 5.72 | 101.6 | 2.3 | 0.28 | 0.1 | 0.00 | 0.12 | 0.04 | 16 |
| 20 ISL | 15.97 | 15.97 | 33.566 | 24.653 | 328.4 | 0.066 | 5.72 | 101.6 | 2.3 | 0.28 | 0.1 | 0.00 | 0.11 | 0.04 | 20 | |
| 30 ISL | 15.90 | 15.90 | 33.561 | 24.665 | 327.6 | 0.098 | 5.73 | 101.6 | 2.3 | 0.29 | 0.1 | 0.00 | 0.10 | 0.04 | 30 | |
| 1 | 36 | 15.86 | 15.85 | 33.560 | 24.674 | 327.0 | 0.118 | 5.73 | 101.5 | 2.3 | 0.29 | 0.1 | 0.00 | 0.10 | 0.04 | 36 |
| 50 ISL | 15.92 | 15.91 | 33.584 | 24.679 | 326.9 | 0.164 | 5.75 | 102.0 | 2.2 | 0.28 | 0.1 | 0.00 | 0.12 | 0.05 | 50 | |
| 1 | 55 | 15.95 | 15.94 | 33.594 | 24.681 | 327.0 | 0.180 | 5.76 | 102.2 | 2.2 | 0.28 | 0.1 | 0.00 | 0.13 | 0.05 | 55 |
| 1 | 70 | 16.03 | 16.02 | 33.616 | 24.680 | 327.5 | 0.229 | 5.68 | 101.0 | 2.3 | 0.28 | 0.1 | 0.00 | 0.15 | 0.06 | 71 |
| 75 ISL | 16.64 | 16.63 | 33.846 | 24.717 | 324.2 | 0.246 | 5.59 | 100.7 | 2.3 | 0.25 | 0.1 | 0.00 | 0.18 | 0.08 | 76 | |
| 1 | 79 | 17.10 | 17.09 | 34.023 | 24.745 | 321.8 | 0.259 | 5.53 | 100.6 | 2.3 | 0.23 | 0.1 | 0.00 | 0.20 | 0.09 | 80 |
| 1 | 88 | 17.10 | 17.09 | 34.039 | 24.758 | 320.9 | 0.287 | 5.53 | 100.6 | 2.2 | 0.23 | 0.1 | 0.00 | 0.20 | 0.07 | 89 |
| 1 | 99 | 17.03 | 17.01 | 34.027 | 24.765 | 320.5 | 0.323 | 5.53 | 100.5 | 1.9 | 0.23 | 0.1 | 0.00 | 0.18 | 0.07 | 100 |
| 100 ISL | 17.05 | 17.03 | 34.035 | 24.767 | 320.4 | 0.326 | 5.53 | 100.5 | 1.9 | 0.23 | 0.1 | 0.00 | 0.17 | 0.07 | 101 | |
| 1 | 108 | 17.19 | 17.17 | 34.082 | 24.770 | 320.4 | 0.352 | 5.51 | 100.4 | 2.0 | 0.22 | 0.1 | 0.00 | 0.13 | 0.06 | 109 |
| 1 | 123 | 16.44 | 16.42 | 34.104 | 24.963 | 302.4 | 0.398 | 5.32 | 95.6 | 2.7 | 0.28 | 0.9 | 0.06 | 0.10 | 0.13 | 124 |
| 125 ISL | 16.30 | 16.28 | 34.103 | 24.995 | 299.4 | 0.404 | 5.29 | 94.8 | 2.8 | 0.29 | 1.1 | 0.06 | 0.10 | 0.13 | 126 | |
| 1 | 138 | 15.23 | 15.21 | 34.048 | 25.193 | 280.8 | 0.442 | 5.13 | 90.0 | 3.8 | 0.38 | 2.5 | 0.02 | 0.08 | 0.11 | 139 |
| 150 ISL | 13.88 | 13.86 | 33.876 | 25.349 | 266.0 | 0.475 | 5.07 | 86.5 | 5.1 | 0.51 | 4.5 | 0.01 | 0.06 | 0.07 | 151 | |
| 1 | 159 | 12.89 | 12.87 | 33.753 | 25.452 | 256.1 | 0.498 | 5.03 | 84.0 | 6.4 | 0.63 | 6.3 | 0.01 | 0.04 | 0.05 | 160 |
| 1 | 179 | 11.55 | 11.53 | 33.680 | 25.652 | 237.1 | 0.548 | 4.81 | 78.0 | 9.9 | 0.89 | 10.5 | 0.00 | 0.02 | 0.04 | 180 |
| 200 ISL | 10.29 | 10.27 | 33.722 | 25.909 | 212.8 | 0.595 | 4.47 | 70.5 | 15.2 | 1.19 | 15.5 | 0.00 | 0.01 | 0.02 | 202 | |
| 1 | 203 | 10.14 | 10.12 | 33.734 | 25.944 | 209.5 | 0.601 | 4.42 | 69.5 | 16.0 | 1.23 | 16.2 | 0.00 | 0.01 | 0.02 | 205 |
| 1 | 233 | 9.23 | 9.20 | 33.855 | 26.189 | 186.5 | 0.661 | 4.06 | 62.6 | 23.0 | 1.51 | 20.8 | 0.00 | | | 235 |
| 250 ISL | 8.85 | 8.82 | 33.916 | 26.297 | 176.4 | | | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | |
|----------|-----------|-----------|-----------|---------|-----------------|-----------------|----------|----------------|------------------|------|-------|-------|--------|-----------|------------|
| | | 1/ 2/88 | 1935 UTC | 7 M | 1217 - 1800 PST | 1218 PST | 1800 PST | 1234.8 MG C/M2 | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN DARK |
| 0 | 11.89 | 33.520 | 25.461 | 6.17 | 100.8 | 8.7 | 0.71 | 4.9 | 0.22 | 8.13 | 1.67 | 99. | 54.2 | 53.6 | 53.9 0.29 |
| 5 | 11.79 | 33.520 | 25.480 | 6.11 | 99.6 | 8.7 | 0.73 | 5.1 | 0.22 | 7.97 | 1.83 | 30. | 101.6 | 104.4 | 103.0 0.30 |
| 11 | 11.78 | 33.520 | 25.482 | 5.95 | 96.9 | 8.8 | 0.75 | 5.7 | 0.22 | 7.80 | 1.50 | 11. | 74.8 | 83.2 | 79.0 0.23 |
| 15 | 11.77 | 33.518 | 25.482 | 5.93 | 96.6 | 8.9 | 0.76 | 5.9 | 0.22 | 7.86 | 1.52 | 4.0 | 19.4 | 22.3 | 20.9 0.22 |
| 19 | 11.74 | 33.524 | 25.493 | 5.85 | 95.2 | 9.3 | 0.77 | 6.3 | 0.23 | 6.88 | 1.58 | 1.9 | 9.6 | 9.6 | 9.6 0.16 |
| 26 | 11.69 | 33.553 | 25.525 | 5.36 | 87.2 | 11.5 | 0.94 | 8.8 | 0.25 | 4.14 | 0.90 | 0.40 | 0.49 | 0.72 | 0.60 0.13 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 77 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | |
|----------|-----------|-----------|-----------|---------|-----------------|-----------------|----------|----------------|------------------|------|-------|-------|--------|-----------|-----------|
| | | 31/ 1/88 | 2013 UTC | 17 M | 1230 - 1808 PST | 1227 PST | 1808 PST | 244.4 MG C/M2 | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN DARK |
| 1 | 13.90 | 33.165 | 24.791 | 5.98 | 101.6 | 2.2 | 0.40 | 0.4 | 0.03 | 0.42 | 0.19 | 99. | 6.5 | 5.4 | 6.0 0.10 |
| 14 | 13.89 | 33.163 | 24.792 | 5.98 | 101.6 | 2.2 | 0.40 | 0.4 | 0.03 | 0.42 | 0.21 | 30. | 7.7 | 7.7 | 7.7 0.12 |
| 26 | 13.90 | 33.164 | 24.791 | 5.98 | 101.6 | 2.2 | 0.40 | 0.3 | 0.03 | 0.43 | 0.17 | 11. | 6.6 | 6.7 | 6.6 0.11 |
| 37 | 13.90 | 33.163 | 24.790 | 5.98 | 101.6 | 2.2 | 0.39 | 0.3 | 0.03 | 0.43 | 0.18 | 4.0 | 1.8 | 1.9 | 1.8 0.11 |
| 45 | 13.88 | 33.163 | 24.794 | 5.90 | 100.2 | 2.2 | 0.39 | 0.3 | 0.03 | 0.47 | 0.19 | 1.9 | 0.78 | 0.76 | 0.77 0.07 |
| 62 | 13.89 | 33.160 | 24.791 | 5.97 | 101.4 | 2.2 | 0.41 | 0.4 | 0.04 | 0.41 | 0.20 | 0.40 | 0.05 | 0.07 | 0.06 0.07 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | |
|----------|-----------|-----------|-----------|---------|-----------------|-----------------|----------|----------------|------------------|------|-------|-------|--------|-----------|-----------|
| | | 30/ 1/88 | 1903 UTC | 6 M | 1214 - 1800 PST | 1216 PST | 1801 PST | 588.2 MG C/M2 | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN DARK |
| 0 | 12.57 | 33.330 | 25.184 | 6.62 | 109.6 | 3.7 | 0.48 | 1.4 | 0.13 | 4.32 | 1.54 | 99. | 31.7 | 24.7 | 28.2 0.25 |
| 4 | 12.53 | 33.327 | 25.190 | 6.66 | 110.1 | 3.5 | 0.48 | 1.4 | 0.12 | 4.32 | 1.50 | 30. | 56.8 | 58.6 | 57.7 0.27 |
| 8 | 12.53 | 33.326 | 25.189 | 6.68 | 110.4 | 3.5 | 0.49 | 1.5 | 0.13 | 4.18 | 1.66 | 11. | 50.2 | 49.4 | 49.8 0.26 |
| 13 | 12.52 | 33.325 | 25.190 | 6.61 | 109.3 | 3.3 | 0.48 | 1.6 | 0.13 | 4.30 | 1.60 | 4.0 | 13.4 | 11.1 | 12.2 0.21 |
| 15 | 12.50 | 33.329 | 25.197 | 6.60 | 109.1 | 3.5 | 0.50 | 1.6 | 0.14 | 4.33 | 1.64 | 1.9 | 6.8 | 7.7 | 7.3 0.18 |
| 22 | 12.57 | 33.323 | 25.179 | 6.53 | 108.1 | 3.6 | 0.50 | 1.8 | 0.15 | 4.01 | 1.41 | 0.40 | 0.36 | 0.42 | 0.39 0.18 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | |
|----------|-----------|-----------|-----------|---------|-----------------|-----------------|----------|----------------|------------------|------|-------|-------|--------|-----------|-----------|
| | | 29/ 1/88 | 1930 UTC | 10 M | 1213 - 1754 PST | 1215 PST | 1754 PST | 533.4 MG C/M2 | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN DARK |
| 0 | 13.15 | 33.448 | 25.161 | 6.26 | 104.9 | 6.5 | 0.59 | 2.7 | 0.07 | 1.43 | 0.30 | 99. | 20.6 | 28.2 | 24.4 0.19 |
| 7 | 13.10 | 33.447 | 25.171 | 6.26 | 104.8 | 6.4 | 0.56 | 2.7 | 0.08 | 1.51 | 0.25 | 30. | 38.4 | 37.6 | 38.0 0.21 |
| 14 | 12.86 | 33.445 | 25.217 | 6.13 | 102.1 | 7.0 | 3.8 | 0.11 | 1.03 | 0.32 | 11. | 20.1 | 21.2 | 20.6 0.15 | |
| 21 | 12.71 | 33.456 | 25.255 | 5.83 | 96.8 | 7.2 | 0.68 | 4.6 | 0.16 | 0.76 | 0.40 | 4.0 | 3.7 | 4.2 | 3.9 0.10 |
| 25 | 12.65 | 33.453 | 25.265 | 5.90 | 97.9 | 7.2 | 0.69 | 4.7 | 0.15 | 0.76 | 0.38 | 1.9 | 2.0 | 2.2 | 2.1 0.09 |
| 36 | 12.13 | 33.490 | 25.393 | 5.41 | 88.8 | 9.9 | 0.90 | 8.4 | 0.34 | 0.27 | 0.28 | 0.40 | 0.10 | 0.10 | 0.10 0.06 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 83 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | |
|----------|-----------|-----------|-----------|---------|-----------------|-----------------|----------|----------------|------------------|------|-------|-------|--------|-----------|-----------|
| | | 28/ 1/88 | 1916 UTC | 21 M | 1224 - 1806 PST | 1227 PST | 1807 PST | 3 46.7 MG C/M2 | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS O2 | OXY | SI03 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN DARK |
| 0 | 13.98 | 33.142 | 24.756 | 6.06 | 103.2 | 2.7 | 0.39 | 0.3 | 0.02 | 0.41 | 0.13 | 99. | 8.1 | 8.6 | 8.3 0.10 |
| 17 | 13.72 | 33.147 | 24.814 | 6.08 | 102.9 | 2.8 | 0.40 | 0.4 | 0.03 | 0.52 | 0.24 | 30. | 8.2 | 8.9 | 8.5 0.08 |
| 31 | 13.61 | 33.151 | 24.840 | 6.08 | 102.7 | 2.9 | 0.41 | 0.6 | 0.03 | 0.52 | 0.26 | 11. | 6.9 | 7.5 | 7.2 0.08 |
| 44 | 13.59 | 33.153 | 24.846 | 6.09 | 102.8 | 3.0 | 0.41 | 0.6 | 0.03 | 0.53 | 0.27 | 4.0 | 2.8 | 2.6 | 2.7 0.07 |
| 56 | 13.51 | 33.155 | 24.864 | 5.94 | 100.1 | 3.1 | 0.44 | 1.0 | 0.09 | 0.33 | 0.22 | 1.9 | 0.75 | 0.78 | 0.76 0.07 |
| 76 | 13.55 | 33.158 | 24.859 | 6.05 | 102.1 | 3.1 | 0.43 | 0.9 | 0.07 | 0.58 | 0.33 | 0.40 | 0.15 | 0.11 | 0.13 0.06 |

PRIMARY PRODUCTIVITY CASTS

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 50

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|--------|-------|-------------|------|------|----------|----------|------------|-------|-------|--------|-----------|------|------|
| 33 19.A N | 119 39.8 W | 26/ 1/88 | 2007 UTC | 13 | M | 1227 - 1753 | PST | 1211 | 1752 PST | | 621.8 MG | C/M2 | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 1 | 13.25 | 33.460 | 25.151 | 6.15 | 103.3 | 5.4 | 0.50 | 2.1 | 0.08 | 1.26 | 0.35 | 99. | 23.2 | 24.7 | 24.0 | 0.15 | |
| 11 | 13.11 | 33.456 | 25.176 | 6.15 | 103.0 | 5.4 | 0.49 | 2.0 | 0.08 | 1.36 | 0.38 | 30. | 29.6 | 28.5 | 29.0 | 0.19 | |
| 20 | 13.09 | 33.457 | 25.181 | 6.07 | 101.6 | 5.5 | 0.51 | 2.3 | 0.09 | 1.09 | 0.37 | 11. | 19.3 | 19.2 | 19.2 | 0.13 | |
| 28 | 12.71 | 33.479 | 25.273 | 5.68 | 94.4 | 7.0 | 0.62 | 4.8 | 0.18 | 0.57 | 0.32 | 4.0 | 3.7 | 3.7 | 3.7 | 0.08 | |
| 35 | 12.36 | 33.502 | 25.359 | 5.42 | 89.4 | 8.7 | 0.77 | 6.8 | 0.20 | 0.41 | 0.27 | 1.9 | 1.2 | 1.1 | 1.1 | 0.07 | |
| 48 | 11.66 | 33.581 | 25.552 | 4.84 | 78.7 | 13.1 | 1.08 | 11.8 | 0.21 | 0.17 | 0.18 | 0.40 | 0.05 | 0.05 | 0.05 | 0.07 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 87 90

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|--------|-------|-------------|------|------|----------|----------|------------|-------|-------|--------|-----------|------|------|
| 31 59.4 N | 122 23.6 W | 27/ 1/88 | 1959 UTC | 15 | M | 1222 - 1807 | PST | 1223 | 1807 PST | | 480.0 MG | C/M2 | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 1 | 13.99 | 33.210 | 24.807 | 6.14 | 104.6 | 2.9 | 0.42 | 0.7 | 0.07 | 0.69 | 0.20 | 99. | 10.9 | 12.4 | 11.6 | 0.11 | |
| 13 | 13.24 | 33.263 | 25.001 | 6.17 | 103.5 | 3.6 | 0.46 | 1.2 | 0.09 | 0.91 | 0.38 | 30. | 20.8 | 21.3 | 21.0 | 0.16 | |
| 23 | 12.99 | 33.254 | 25.044 | 6.00 | 100.1 | 3.9 | 0.54 | 2.2 | 0.22 | 0.76 | 0.35 | 11. | 11.7 | 10.8 | 11.2 | 0.11 | |
| 32 | 12.98 | 33.265 | 25.054 | 5.92 | 98.8 | 4.0 | 0.55 | 2.5 | 0.28 | 0.60 | 0.32 | 4.0 | 4.6 | 4.4 | 4.5 | 0.08 | |
| 40 | 12.97 | 33.279 | 25.067 | 5.91 | 98.6 | 4.1 | 0.55 | 2.7 | 0.30 | 0.52 | 0.32 | 1.9 | 2.1 | 1.8 | 1.9 | 0.08 | |
| 55 | 12.99 | 33.324 | 25.099 | 5.79 | 96.7 | 4.6 | 0.62 | 3.6 | 0.41 | 0.24 | 0.22 | 0.40 | 0.22 | 0.12 | 0.17 | 0.07 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|--------|-------|-------------|------|------|----------|----------|------------|-------|-------|--------|-----------|------|------|
| 32 25.1 N | 119 57.6 W | 24/ 1/88 | 1842 UTC | 15 | M | 1200 - 1748 | PST | 1212 | 1748 PST | | 335.8 MG | C/M2 | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 14.00 | 33.363 | 24.923 | 5.96 | 101.6 | 3.4 | 0.43 | 1.5 | 0.05 | 0.71 | 0.22 | 99. | 3.9 | 5.6 | 4.7 | 0.08 | |
| 12 | 13.87 | 33.362 | 24.949 | 5.95 | 101.2 | 3.5 | 0.44 | 1.5 | 0.05 | 0.71 | 0.23 | 30. | 13.6 | '13.0 | 13.3 | 0.12 | |
| 21 | 13.84 | 33.356 | 24.951 | 5.92 | 100.6 | 3.6 | 0.45 | 1.6 | 0.05 | 0.72 | 0.28 | 11. | 11.1 | 10.8 | 11.0 | 0.09 | |
| 31 | 13.81 | 33.356 | 24.958 | 5.90 | 100.2 | 3.6 | 0.46 | 1.6 | 0.05 | 0.73 | 0.26 | 4.0 | 4.3 | 4.1 | 4.2 | 0.07 | |
| 39 | 13.79 | 33.353 | 24.960 | 5.89 | 100.0 | 3.6 | 0.46 | 1.7 | 0.05 | 0.72 | 0.23 | 1.9 | 2.0 | 2.2 | 2.1 | 0.08 | |
| 54 | 13.88 | 33.355 | 24.943 | 5.82 | 99.0 | 3.6 | 0.47 | 1.9 | 0.07 | 0.52 | 0.26 | 0.40 | 0.18 | 0.23 | 0.20 | 0.05 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 90 100

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
|----------|------------|-----------|-----------|--------|-------|-------------|------|------|----------|----------|------------|-------|-------|--------|-----------|------|------|
| 31 5.1 N | 122 39.7 W | 23/ 1/88 | 1934 UTC | 33 | M | 1223 - 1800 | PST | 1223 | 1759 PST | | 99.1 MG | C/M2 | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 15.86 | 33.514 | 24.637 | 5.74 | 101.7 | 2.6 | 0.31 | 0.2 | 0.00 | 0.13 | 0.05 | 99. | 0.20 | 0.19 | 0.19 | 0.06 | |
| 26 | 15.71 | 33.494 | 24.656 | 5.74 | 101.4 | 2.7 | 0.31 | 0.2 | 0.00 | 0.15 | 0.05 | 30. | 1.5 | 1.4 | 1.5 | 0.08 | |
| 48 | 15.71 | 33.494 | 24.657 | 5.75 | 101.5 | 2.7 | 0.31 | 0.2 | 0.00 | 0.15 | 0.05 | 11. | 1.5 | 1.7 | 1.6 | 0.08 | |
| 69 | 15.90 | 33.561 | 24.667 | 5.70 | 101.1 | 2.5 | 0.30 | 0.2 | 0.00 | 0.16 | 0.06 | 4.0 | 0.79 | 0.83 | 0.81 | 0.04 | |
| 86 | 15.91 | 33.563 | 24.667 | 5.71 | 101.2 | 2.4 | 0.30 | 0.2 | 0.00 | 0.18 | 0.06 | 1.9 | 0.30 | 0.43 | 0.36 | 0.06 | |
| 120 | 15.11 | 33.767 | 25.002 | 5.44 | 95.1 | 3.5 | 0.37 | 1.5 | 0.09 | 0.15 | 0.14 | 0.40 | 0.11 | 0.10 | 0.10 | 0.03 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8801

STATION 93 45

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
|-----------|------------|-----------|-----------|--------|-------|-------------|------|------|----------|----------|------------|-------|-------|--------|-----------|------|------|
| 32 20.8 N | 118 33.4 W | 20/ 1/88 | 1919 UTC | 25 | M | 1203 - 1745 | PST | 1205 | 1744 PST | | 435.2 MG | C/M2 | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAE0 | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 0 | 14.31 | 33.414 | 24.898 | 5.79 | 99.4 | 3.4 | 0.47 | 1.8 | 0.05 | 0.46 | 0.15 | 99. | 4.8 | 4.9 | 4.9 | 0.03 | |
| 20 | 14.06 | 33.406 | 24.944 | 5.74 | 98.0 | 3.9 | 0.47 | 1.8 | 0.05 | 0.60 | 0.19 | 30. | 9.5 | 9.3 | 9.4 | 0.05 | |
| 37 | 14.08 | 33.406 | 24.941 | 5.74 | 98.1 | 4.1 | 0.47 | 1.8 | 0.05 | 0.61 | 0.17 | 11. | 7.9 | 8.3 | 8.1 | 0.03 | |
| 51 | 14.07 | 33.406 | 24.943 | 5.72 | 97.7 | 4.3 | 0.47 | 1.8 | 0.05 | 0.59 | 0.19 | 4.0 | 3.5 | 3.7 | 3.6 | 0.23 | |
| 64 | 14.05 | 33.407 | 24.948 | 5.78 | 98.7 | 4.0 | 0.47 | 1.8 | 0.05 | 0.59 | 0.16 | 1.9 | 1.9 | 1.9 | 1.9 | 0.10 | |
| 88 | 11.54 | 33.578 | 25.573 | 4.19 | 67.9 | 14.1 | 1.20 | 14.0 | 0.11 | 0.14 | 0.13 | 0.40 | 0.44 | 0.06 | 0.25 | 0.03 | |

PRIMARY PRODUCTIVITY CASTS

| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 8801 | | | | | | | | | | 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 U | 21/ 1/88 | 1942 UTC | 23 M | 1213 - 1757 PST | 1215 PST | 1757 PST | 1215 PST | 1757 PST | 132.8 MG C/M2 | 1 | 2 | MEAN | DARK | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAEAO | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | | |
| 1 | 14.59 | 33.205 | 24.677 | 5.89 | 101.6 | 2.4 | 0.37 | 0.1 | 0.02 | 0.26 | 0.12 | 99. | 1.5 | 1.3 | 1.4 | 0.02 | |
| 19 | 14.55 | 33.203 | 24.685 | 5.87 | 101.1 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.12 | 30. | 2.8 | 3.0 | 2.9 | 0.03 | |
| 35 | 14.54 | 33.205 | 24.689 | 5.96 | 102.6 | 2.4 | 0.37 | 0.1 | 0.03 | 0.28 | 0.12 | 11. | 2.9 | 2.9 | 2.9 | 0.03 | |
| 48 | 14.55 | 33.203 | 24.685 | 5.88 | 101.3 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.11 | 4.0 | 1.3 | 1.3 | 1.3 | 0.04 | |
| 59 | 14.54 | 33.205 | 24.690 | 5.91 | 101.8 | 2.4 | 0.37 | 0.1 | 0.02 | 0.28 | 0.13 | 1.9 | 0.58 | 0.63 | 0.61 | 0.05 | |
| 83 | 14.61 | 33.208 | 24.678 | 5.89 | 101.6 | 2.4 | 0.38 | 0.1 | 0.03 | 0.28 | 0.12 | 0.40 | 0.13 | 0.07 | 0.10 | 0.02 | |

| RV DAVID STARR JORDAN | | | | CALCOFI CRUISE 8801 | | | | | | | | | | STATION 93 II0 | | | |
|-----------------------|------------|-----------|-----------|---------------------|-----------------|-----------------|----------|----------|----------|--------------|------------------|--------|-------|----------------|-----------|------|--|
| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION TIME | | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE | | | | | | |
| 30 10.8 N | 122 55.4 W | 22/ 1/88 | 1939 UTC | 30 M | 1223 - 1806 PST | 1223 PST | 1805 PST | 1223 PST | 1805 PST | 75.0 MG C/M2 | 1 | 2 | MEAN | DARK | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SIO3 | PO4 | N03 | N02 | CHL | PHAEAO | LIGHT | UPTAKE | (MG C/M3) | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | | |
| 1 | 16.33 | 33.719 | 24.688 | 5.65 | 101.1 | 3.1 | 0.27 | 0.2 | 0.00 | | | 99. | 0.15 | 0.17 | 0.16 | 0.04 | |
| 26 | 16.33 | 33.719 | 24.689 | 5.64 | 100.9 | 3.2 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 30. | 1.2 | 1.2 | 1.2 | 0.03 | |
| 46 | 16.32 | 33.718 | 24.691 | 5.66 | 101.3 | 3.0 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 11. | 1.4 | 1.4 | 1.4 | 0.04 | |
| 66 | 16.32 | 33.717 | 24.691 | 5.64 | 100.9 | 2.7 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 4.0 | 0.64 | 0.74 | 0.69 | 0.04 | |
| 78 | 16.33 | 33.724 | 24.695 | 5.65 | 101.1 | 2.6 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 1.9 | 0.26 | 0.30 | 0.28 | 0.03 | |
| II0 | 16.38 | 33.720 | 24.681 | 5.64 | 101.0 | 2.4 | 0.27 | 0.2 | 0.00 | 0.13 | 0.05 | 0.40 | 0.05 | 0.03 | 0.04 | 0.02 | |

Secchi Disk Observations

CalCOFI Cruise 8801

| Line | Sta. | Day | Mo | Local Time | | Secchi Depth (m) | Forel Water | Weather | Clouds | |
|------|------|-----|-----|------------|--|------------------|-------------|---------|----------|-----|
| | | | | (+8:PST) | | | | | Type/Amt | |
| 77 | 49 | 1 | 2 | 1430 | | 5 | 5 | 1 | c c | 4/8 |
| 77 | 51 | 1 | 2 | 1105 | | 7 | 5 | 1 | c c | 4/8 |
| 77 | 55 | 1 | 2 | 0720 | | 10 | 4 | 1 | c c | 5/8 |
| 77 | 90 | 31 | 1 | 1203 | | 17 | 3 | 2 | S T | 8/8 |
| 80 | 55 | 30 | I | 1053 | | 6 | 5 | 1 | c u | 3/8 |
| 80 | 60 | 30 | 1 | 1300 | | 7 | 4 | 1 | c u | 3/8 |
| 83 | 51 | 29 | 1 | 1500 | | 12 | 4 | 1 | c c | 6/8 |
| 83 | 55 | 29 | 1E | 1120 | | 10 | 4 | 1 | s c | 4/8 |
| 83 | 60 | 29 | 1 | 1500 | | 11 | 5 | 1 | s c | 4/8 |
| 83 | 90 | 28 | 1 | 1516 | | 18 | 4 | 1 | s c | 8/8 |
| 83 | 100 | 28 | 1 | 1106 | | 21 | 3 | 1 | s c | 8/8 |
| 87 | 50 | 26 | 1 | 1149 | | 13 | 4 | 1 | S T | 6/8 |
| 87 | 55 | 26 | J I | 1403 | | 14 | 4 | 1 | c c | 6/8 |
| 87 | 90 | 27 | J L | 1149 | | 15 | 4 | 1 | A C | 6/8 |
| 87 | 100 | 27 | J C | 1603 | | 24 | 3 | 1 | C I | 3/8 |
| 90 | 28 | 25 | 1L | 0747 | | 10 | 4 | 1 | C S | 3/8 |
| 90 | 53 | 24 | 1I | 1435 | | 15 | 4 | 1 | C I | 3/8 |
| 90 | 60 | 24 | 1I | 1032 | | 15 | 4 | 1 | C I | 3/8 |
| 90 | 90 | 23 | 1L | 1618 | | 29 | 2 | 0 | - | 0 |
| 90 | 100 | 23 | 1L | 1124 | | 33 | 2 | - | - | - |
| 93 | 26.7 | 19 | 1L | 1455 | | 2 | 4 | 0 | - | 0 |
| 93 | 45 | 20 | 1L | 1109 | | 25 | 2 | 1 | C S | 1/8 |
| 93 | 50 | 20 | I | 1448 | | 18 | 3 | 1 | C S | 1/8 |
| 93 | 80 | 21 | L | 1129 | | 23 | 2 | 1 | C S | 4/8 |
| 93 | II0 | 22 | I | 1130 | | 30 | 2 | 0 | - | 0 |

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

| Line | Sta. | Position | Date Mo/Day | Time(UTC) | | 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 | 2/1 | 2235 | 2242 | 124 | 57 | 57 | 57 |
| 77 | 51 | 35 01.3N | 120 55.1W | 2/1 | 2030 | 2052 | 425 | 211 | 202 | 40 |
| 77 | 55 | 34 53.3N | 121 12.0W | 2/1 | 1706 | 1728 | 418 | 215 | 60 | 60 |
| 77 | 60 | 34 43.3N | 121 33.0W | 2/1 | 1309 | 1331 | 402 | 215 | 124 | 124 |
| 77 | 70 | 34 23.3N | 122 14.7W | 2/1 | 0749 | 0811 | 437 | 209 | 41 | 41 |
| 77 | 80 | 34 03.3N | 122 56.6W | 2/1 | 0225 | 0247 | 420 | 214 | 50 | 50 |
| 77 | 90 | 33 43.3N | 123 38.0W | 1/31 | 2113 | 2135 | 441 | 214 | 14 | 14 |
| 80 | 51 | 34 27.0N | 120 31.4W | 1/30 | 1517 | 1525 | 144 | 70 | 285 | 285 |
| 80 | 55 | 34 19.1N | 120 48.1W | 1/30 | 1818 | 1840 | 426 | 212 | 61 | 61 |
| 80 | 60 | 34 09.0N | 121 09.0W | 1/30 | 2241 | 2303 | 423 | 213 | 59 | 59 |
| 80 | 70 | 33 49.2N | 121 50.6W | 1/31 | 0435 | 0457 | 436 | 214 | 76 | 76 |
| 80 | 80 | 33 29.0N | 122 32.0W | 1/31 | 1031 | 1053 | 472 | 212 | 25 | 25 |
| 80 | 90 | 33 09.1N | 123 13.3W | 1/31 | 1529 | 1551 | 441 | 214 | 18 | 18 |
| 82 | 47 | 34 16.9N | 120 02.3 W | 1/30 | 1159 | 1221 | 396 | 214 | 63 | 63 |
| 83 | 40.6 | 34 13.5N | 119 24.7W | 1/30 | 0714 | 0718 | 63 | 28 | 16 | 16 |
| 83 | 42 | 34 10.7N | 119 30.5W | 1/30 | 0535 | 0545 | 183 | 92 | 65 | 65 |
| 83 | 51 | 33 52.6N | 120 08.1W | 1/30 | 0005 | 0015 | 172 | 87 | 58 | 58 |
| 83 | 55 | 33 44.7N | 120 24.6W | 1/29 | 2040 | 2102 | 437 | 212 | 53 | 53 |
| 83 | 60 | 33 34.7N | 120 45.4W | 1/29 | 1632 | 1654 | 424 | 210 | 59 | 59 |
| 83 | 70 | 33 14.6N | 121 26.6W | 1/29 | 1053 | 1115 | 434 | 211 | 157 | 157 |
| 83 | 80 | 32 54.6N | 122 07.7W | 1/29 | 0535 | 0557 | 430 | 210 | 58 | 58 |
| 83 | 90 | 32 34.7N | 122 48.8W | 1/29 | 0011 | 0033 | 426 | 214 | 21 | 21 |
| 83 | 100 | 32 14.7N | 123 29.5W | 1/28 | 1752 | 1814 | 407 | 214 | 25 | 25 |
| 83 | 110 | 31 54.8N | 124 10.4W | 1/28 | 1236 | 1258 | 401 | 212 | 27 | 27 |
| 87 | 33 | 33 53.4N | 118 29.4W | 1/26 | 0220 | 0226 | 101 | 50 | 39 | 39 |
| 87 | 35 | 33 49.4N | 118 37.7W | 1/26 | 0459 | 0521 | 401 | 217 | 37 | 37 |
| 87 | 39.5 | 33 40.4N | 118 56.5W | 1/26 | 0830 | 0852 | 402 | 209 | 132 | 132 |
| 87 | 45 | 33 29.5N | 119 19.4W | 1/26 | 1248 | 1310 | 407 | 212 | 74 | 61 |
| 87 | 50 | 33 19.4N | 119 39.8W | 1/26 | 1600 | 1607 | 136 | 70 | 132 | 59 |
| 87 | 55 | 33 09.4N | 120 00.2W | 1/26 | 2308 | 2330 | 416 | 210 | 60 | 60 |
| 87 | 60 | 32 59.4N | 120 20.9W | 1/27 | 0249 | 0311 | 402 | 213 | 62 | 62 |
| 87 | 70 | 32 39.4N | 121 02.0W | 1/27 | 0818 | 0840 | 425 | 210 | 54 | 42 |
| 87 | 80 | 32 19.4N | 121 42.9W | 1/27 | 1348 | 1410 | 425 | 211 | 64 | 64 |
| 87 | 90 | 31 59.4N | 122 23.6W | 1/27 | 1923 | 1945 | 446 | 209 | 58 | 58 |
| 87 | 100 | 31 39.4N | 123 04.2W | 1/28 | 0127 | 0149 | 426 | 210 | 28 | 16 |
| 87 | 110 | 31 19.4N | 123 44.5W | 1/28 | 0704 | 0726 | 449 | 208 | 71 | 54 |
| 90 | 28 | 33 29.0N | 117 46.1W | 1/25 | 1653 | 1709 | 303 | 156 | 23 | 23 |
| 90 | 30 | 33 25.1N | 117 54.5W | 1/25 | 1435 | 1457 | 402 | 209 | 47 | 47 |
| 90 | 35 | 33 15.1N | 118 15.2W | 1/25 | 1108 | 1130 | 402 | 209 | 62 | 62 |
| 90 | 37 | 33 11.1N | 118 23.2W | 1/25 | 0841 | 0903 | 419 | 208 | 67 | 67 |
| 90 | 45 | 32 55.1N | 118 55.9W | 1/25 | 0408 | 0430 | 420 | 209 | 59 | 59 |
| 90 | 53 | 32 39.3N | 119 28.6W | 1/24 | 2340 | 0002 | 417 | 212 | 57 | 57 |
| 90 | 60 | 32 25.1N | 119 57.6W | 1/24 | 1923 | 1945 | 422 | 211 | 40 | 40 |
| 90 | 70 | 32 05.1N | 120 38.5W | 1/24 | 1327 | 1349 | 415 | 216 | 53 | 53 |
| 90 | 80 | 31 45.1N | 121 19.0W | 1/24 | 0657 | 0719 | 423 | 216 | 28 | 28 |
| 90 | 90 | 31 24.9N | 121 59.1W | 1/24 | 0130 | 0152 | 464 | 211 | 6 | 6 |
| 90 | 100 | 31 05.1N | 122 39.7W | 1/23 | 1944 | 2006 | 434 | 212 | 9 | 9 |
| 90 | 110 | 30 45.1N | 123 19.9W | 1/23 | 1403 | 1425 | 448 | 214 | 20 | 20 |
| 90 | 120 | 30 25.0N | 123 59.8W | 1/23 | 0818 | 0840 | 431 | 212 | 9 | 9 |
| 93 | 26.7 | 32 57.2N | 117 18.3W | 1/20 | 0013 | 0021 | 161 | 78 | 25 | 25 |
| 93 | 28 | 32 54.8N | 117 23.7W | 1/20 | 0215 | 0237 | 416 | 213 | 34 | 34 |
| 93 | 30 | 32 50.7N | 117 31.9W | 1/20 | 0538 | 0560 | 413 | 212 | 41 | 41 |
| 93 | 35 | 32 40.4N | 117 51.3W | 1/20 | 0926 | 0948 | 429 | 212 | 37 | 37 |
| 93 | 40 | 32 30.5N | 118 12.9W | 1/20 | 1525 | 1546 | 414 | 213 | 7 | 7 |
| 93 | 45 | 32 20.8N | 118 33.4W | 1/20 | 2007 | 2029 | 432 | 211 | 21 | 21 |
| 93 | 50 | 32 10.7N | 118 53.8W | 1/21 | 0010 | 0032 | 408 | 209 | 17 | 17 |
| 93 | 55 | 32 00.7N | 119 14.0W | 1/21 | 0415 | 0436 | 402 | 210 | 35 | 35 |
| 93 | 60 | 31 50.9N | 119 34.4W | 1/21 | 0826 | 0848 | 422 | 209 | 55 | 55 |
| 93 | 70 | 31 30.9N | 120 14.9W | 1/21 | 1434 | 1456 | 410 | 216 | 37 | 37 |
| 93 | 80 | 31 10.8N | 120 55.1W | 1/21 | 2135 | 2157 | 437 | 208 | 7 | 7 |
| 93 | 90 | 30 50.9N | 121 35.4W | 1/22 | 0759 | 0821 | 458 | 203 | 9 | 9 |
| 93 | 100 | 30 30.9N | 122 15.5W | 1/22 | 1333 | 1355 | 439 | 208 | 14 | 14 |
| 93 | 110 | 30 10.8N | 122 55.4W | 1/22 | 2045 | 2107 | 446 | 214 | 2 | 2 |
| 93 | 120 | 29 50.9N | 123 35.2W | 1/23 | 0228 | 0250 | 432 | 210 | 5 | 5 |

FIGURES

Cruise 8805

1. CALCOFI Cruise 8805 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.

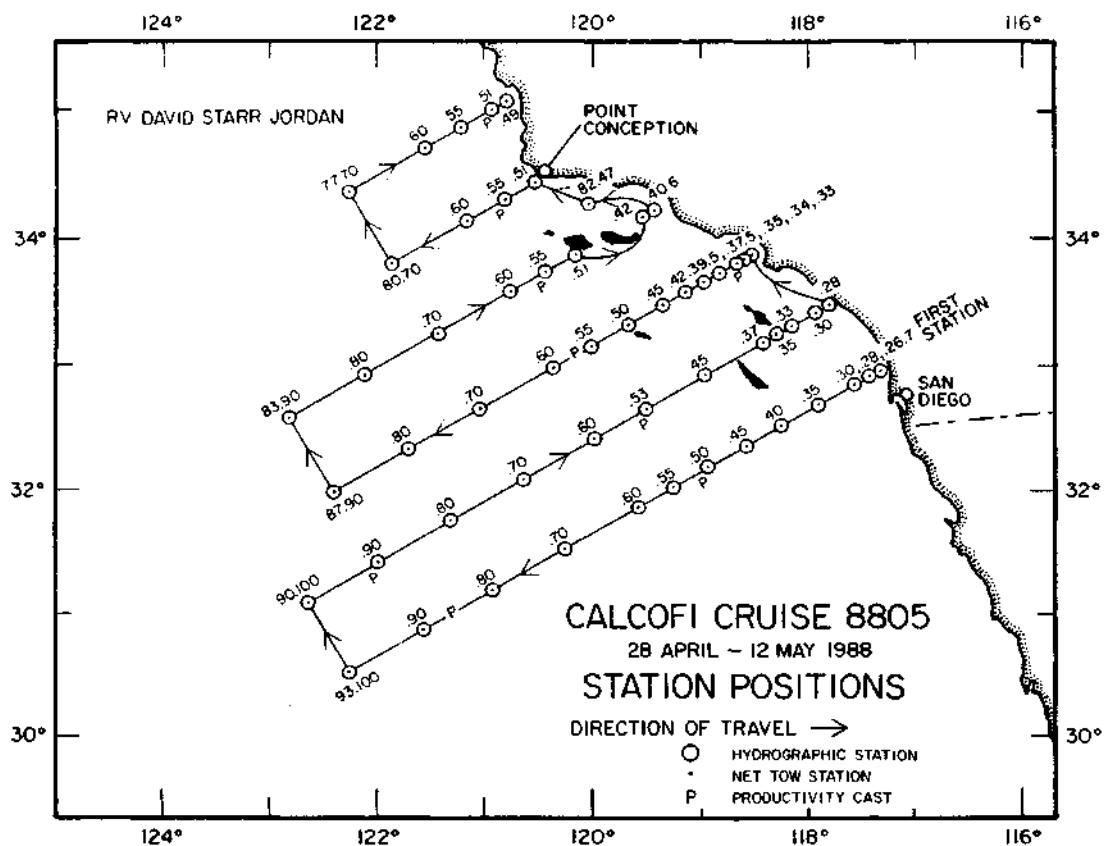


FIGURE 1

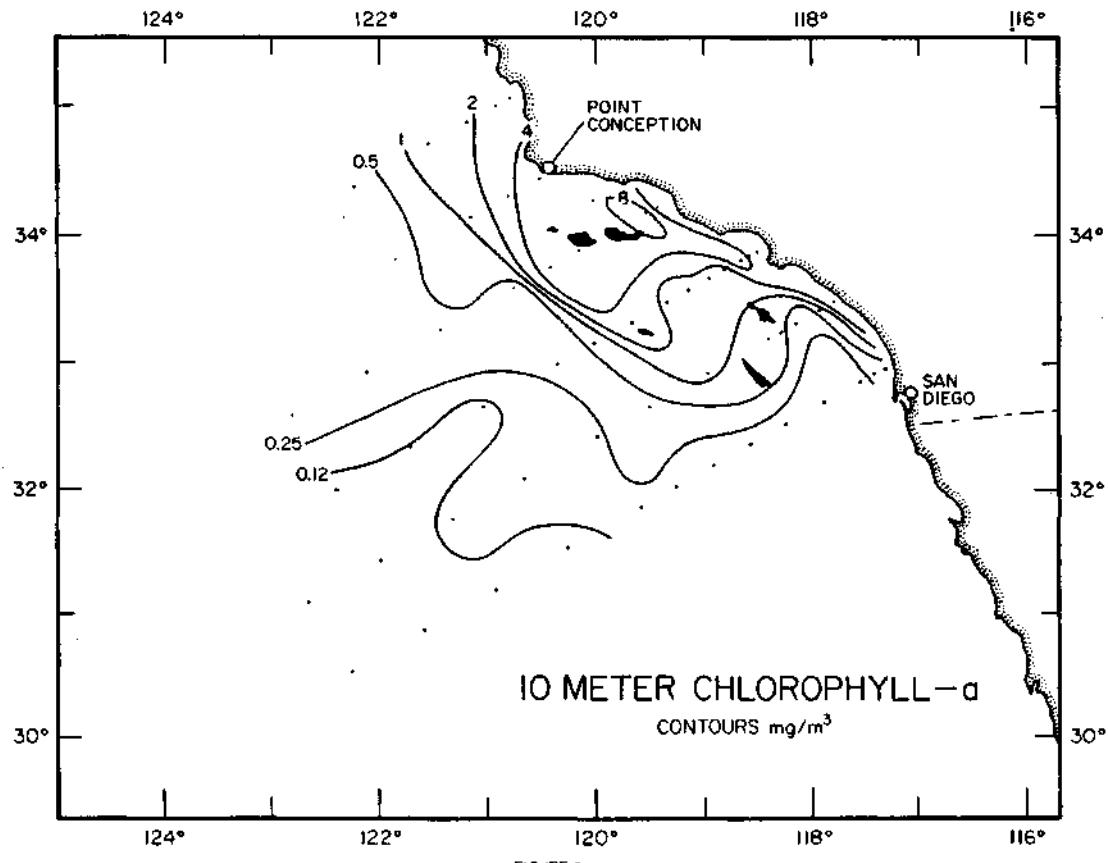


FIGURE 2

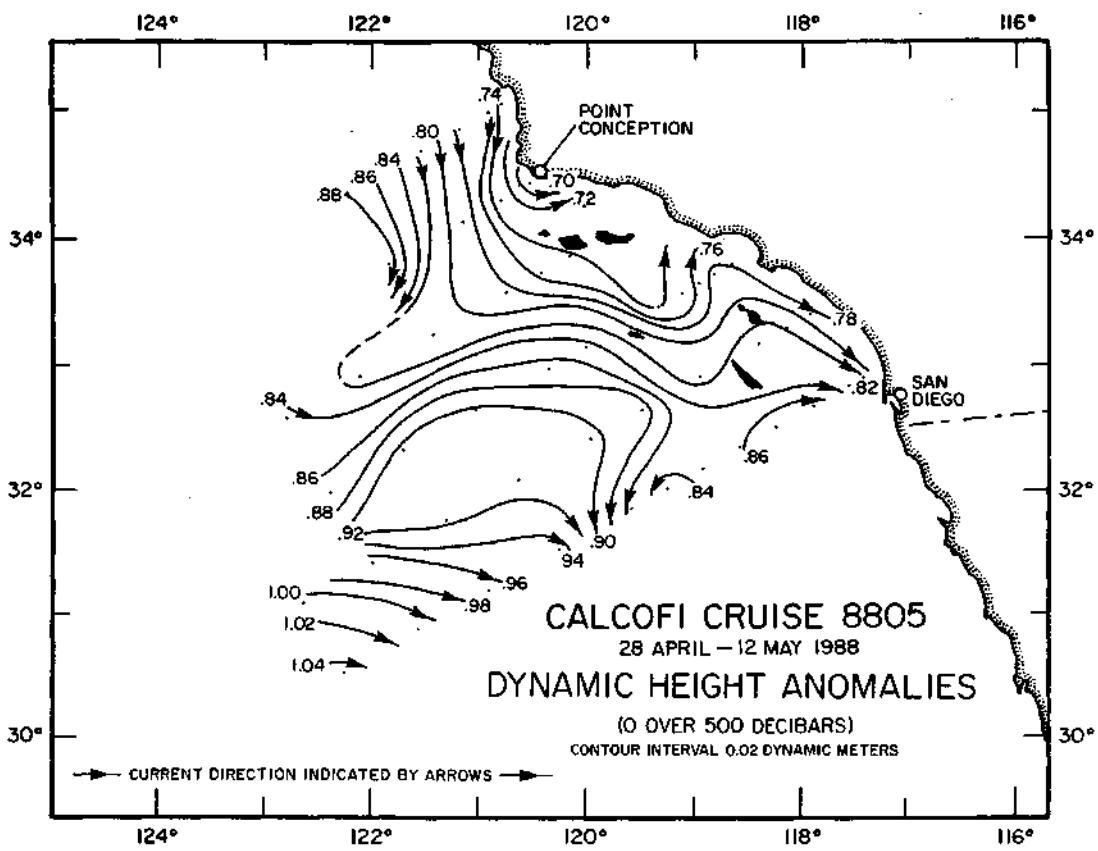


FIGURE 3

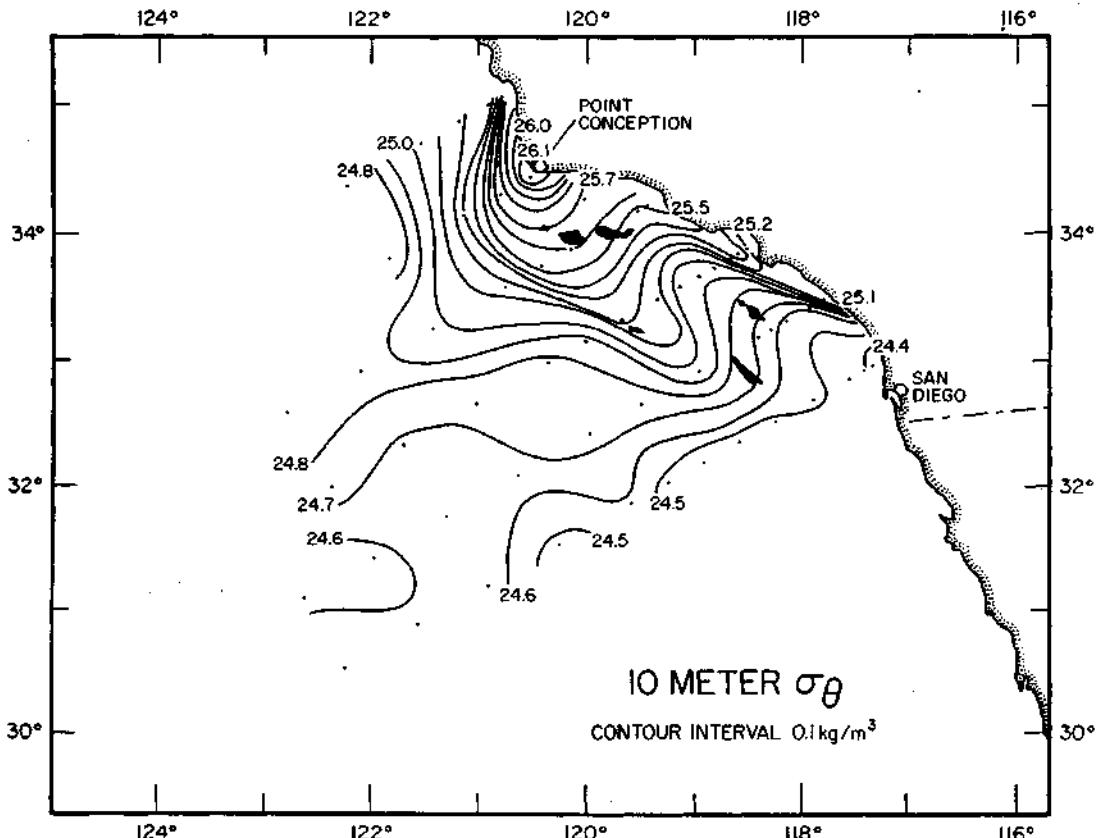


FIGURE 4

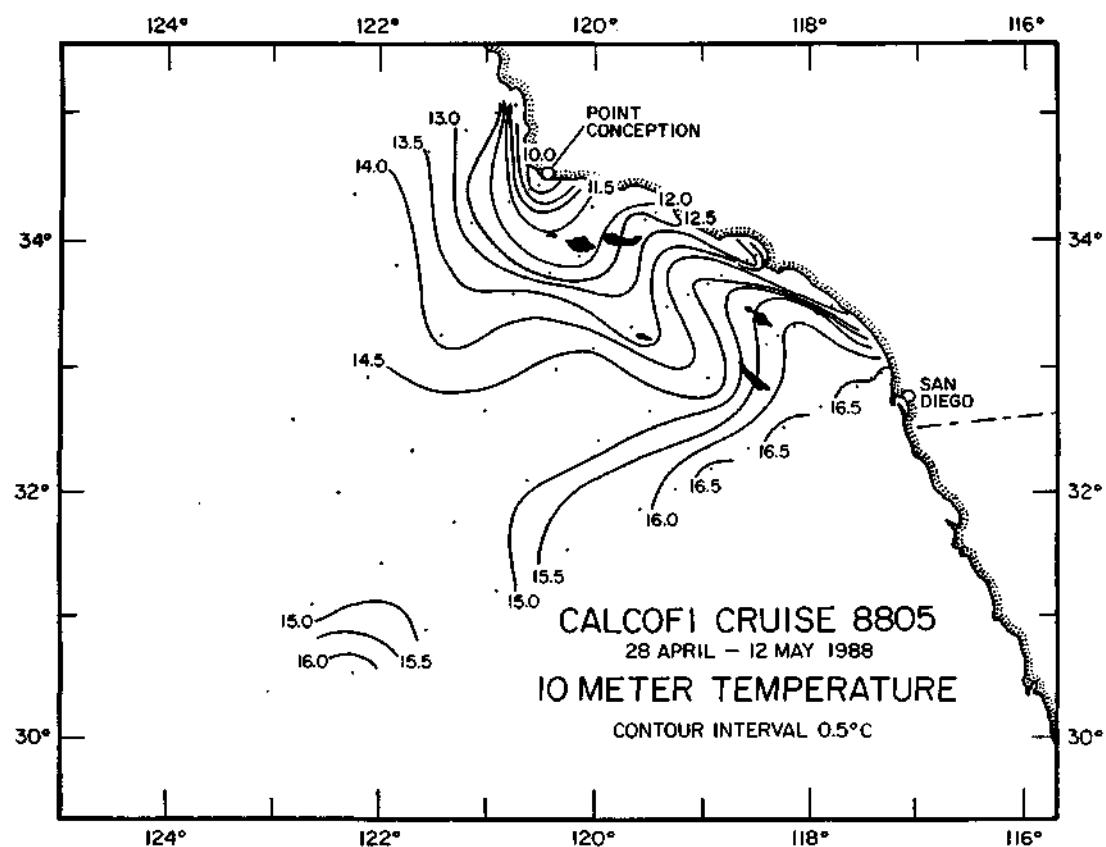


FIGURE 5

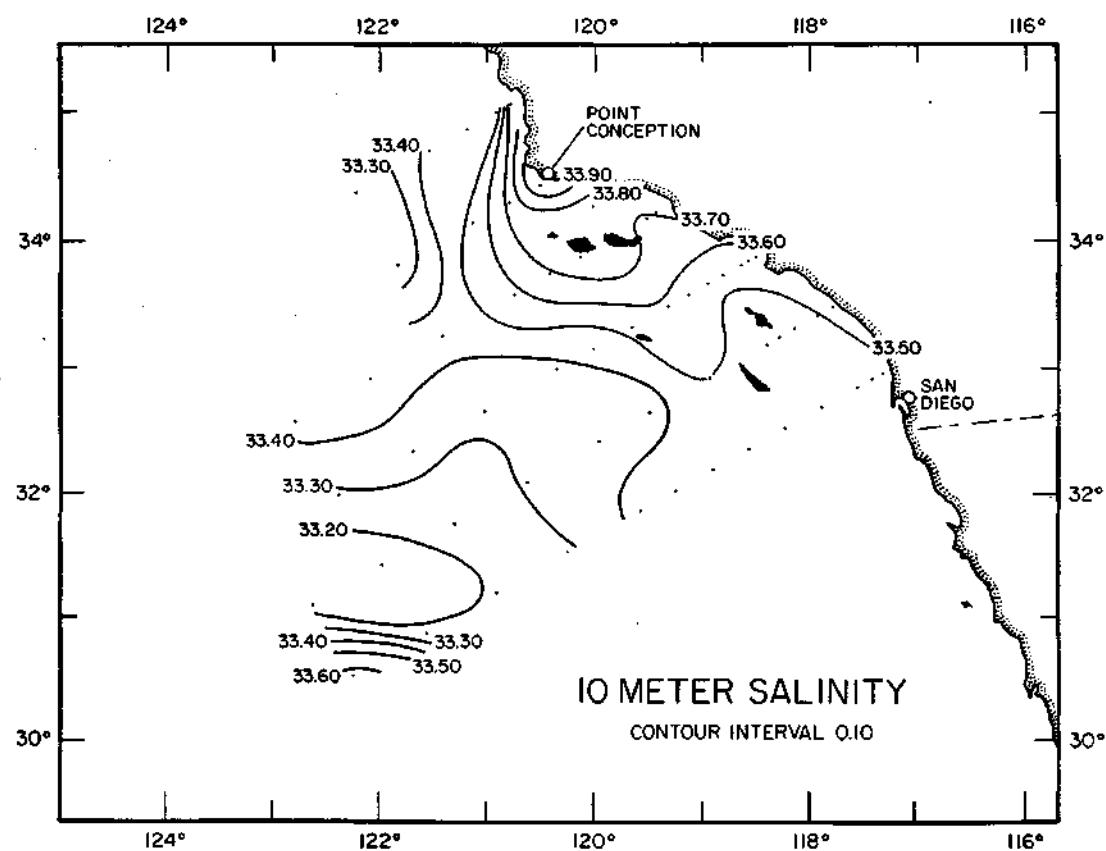


FIGURE 6

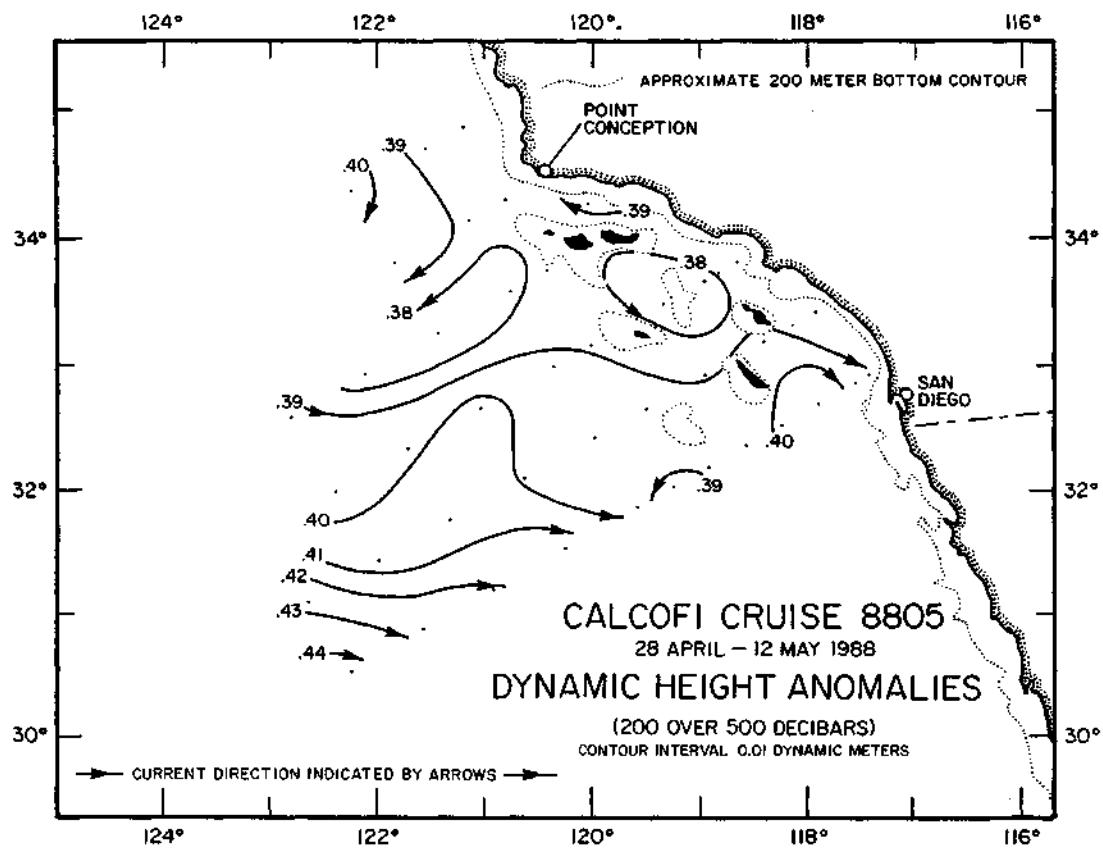


FIGURE 7

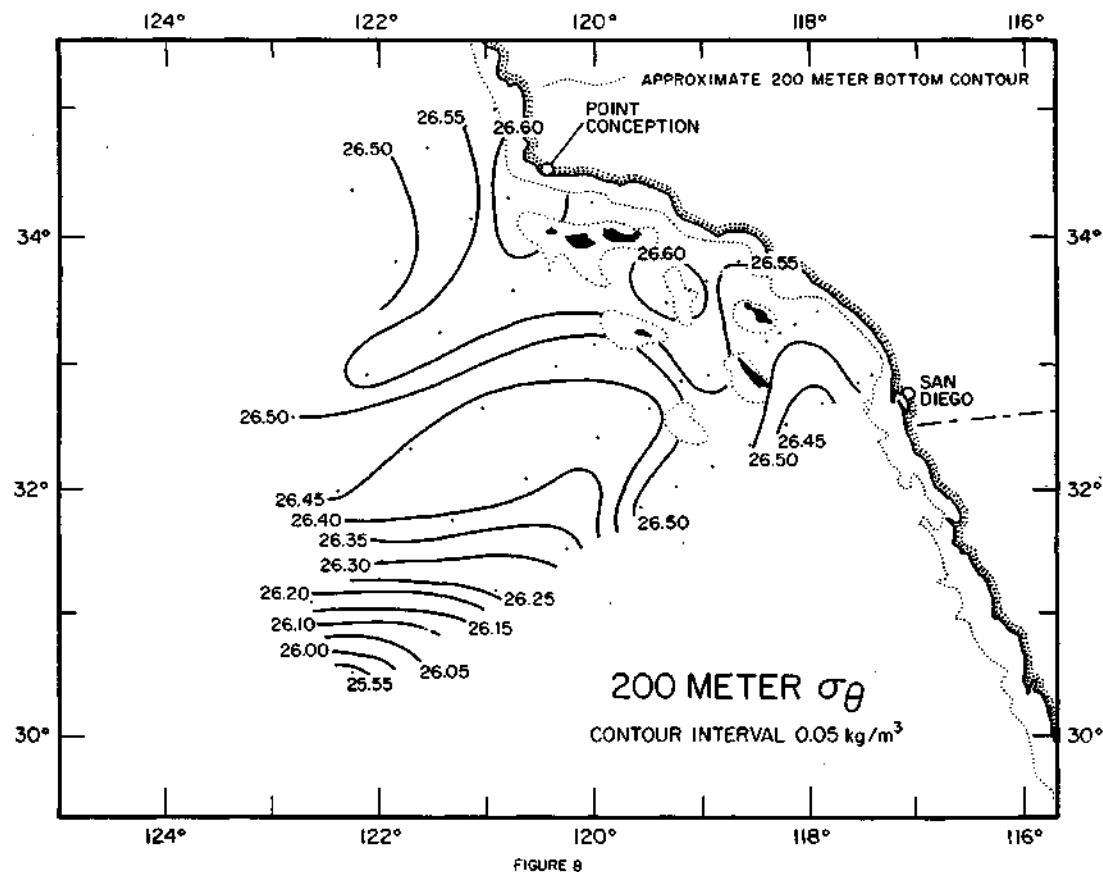
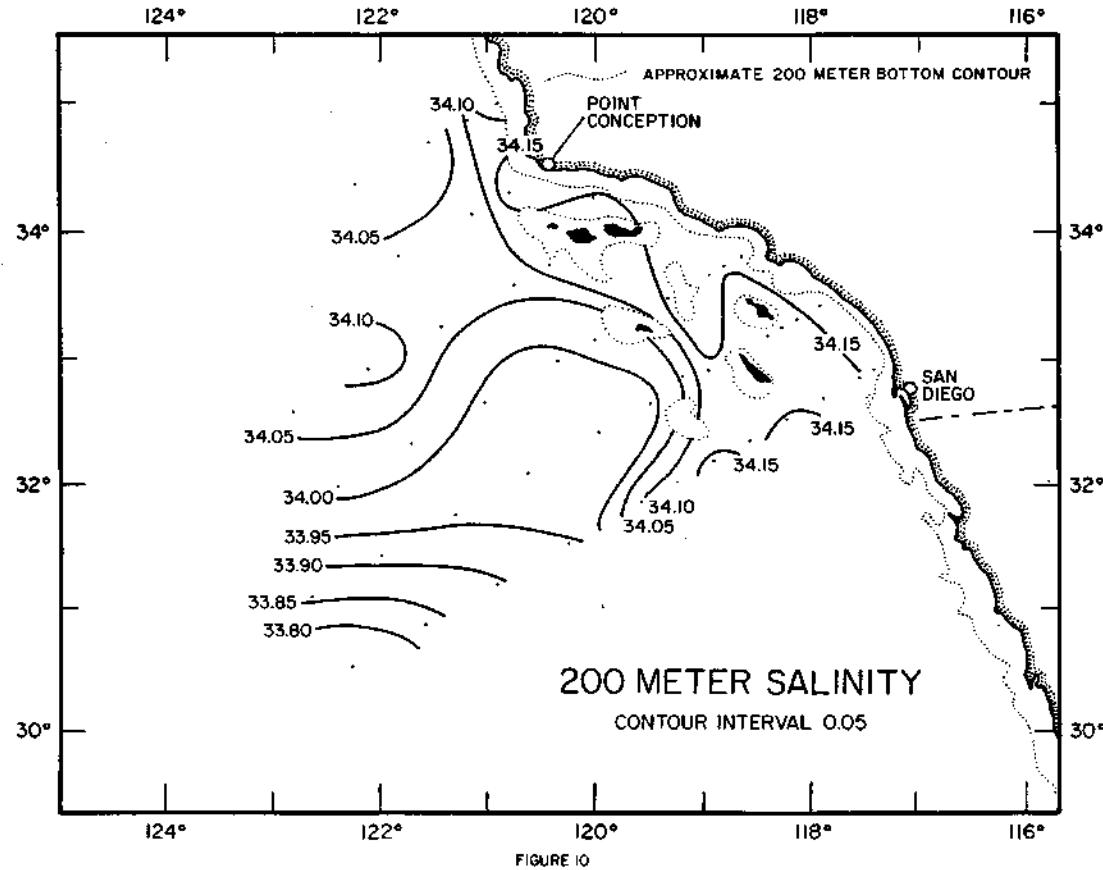
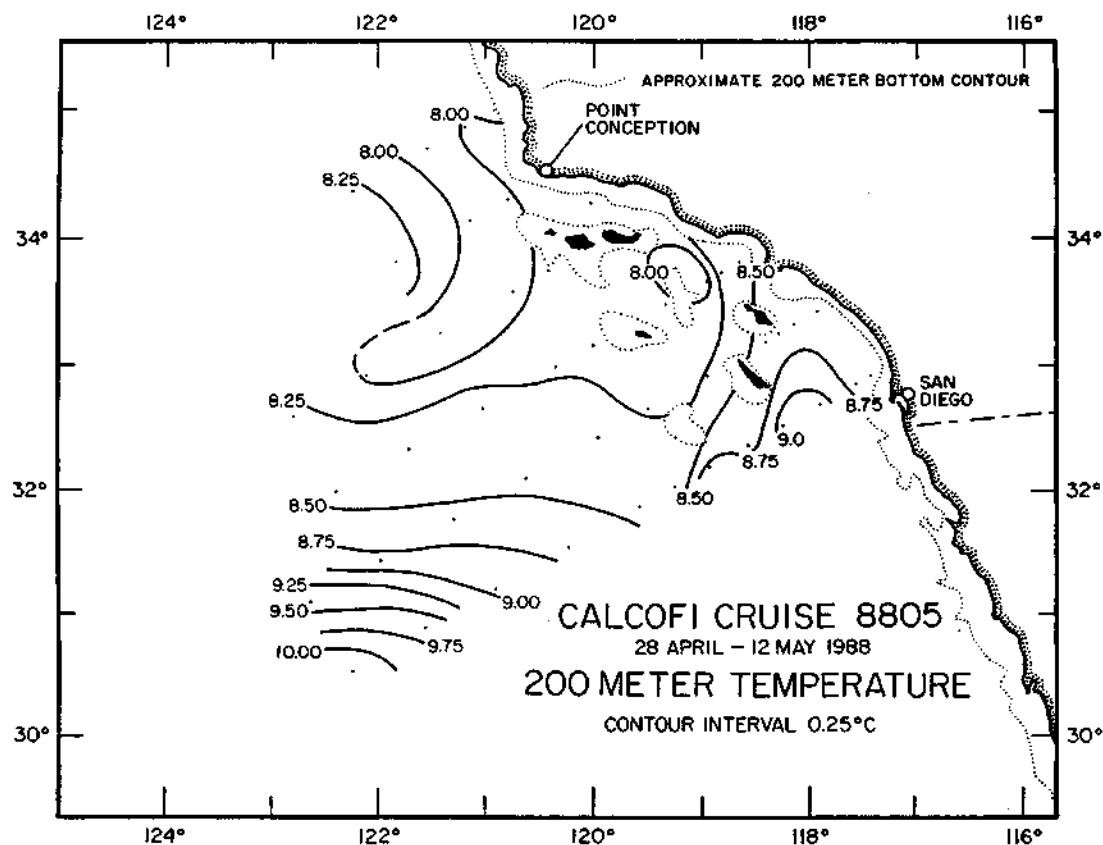


FIGURE 8



PERSONNEL

Calcofi Cruise 8805

SHIPS' CAPTAINS

Thomas L. Meyer, RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | |
|----------------------------------|-------------------------------------|
| Flerx, William C. (in charge) | Fishery Biologist, NMFS |
| Acosta, Nora I. | Student, CICESE |
| Anderson, George C. | Staff Research Associate, SIO |
| Bryan, Walter R. | Marine Technician, SIO |
| Costello, James P. | Staff Research Associate, SIO |
| Dodson, Holly E. | Graduate Student, UCSB |
| Dotson, Ronald C. | Fishery Biologist, NMFS |
| Goodson, Julie L. | Student, UCSB |
| Gripp, Sherry L. | Staff Research Associate, SIO |
| Hernandez, Marina E. | Student, CICESE |
| Taveras, Susan M. | Fishery Biological Technician, NMFS |
| Veit, Richard R. | Graduate Student, UCI |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 77 49

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|------|------|-----------|------|-------|-------|-------|
| 35 5.0 N | 120 46.9 W | 11/05/88 | 2227 UTC | 81 M | 310 | 16 KT | 290 03 05 | | | | | | | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 11.64 | 11.64 | 33.737 | 25.676 | 230.5 | 0.000 | 5.92 | 96.3 | 18.9 | 1.07 | 15.4 | 0.28 | 3.85 | 0.36 | 0 |
| 1 | 9 | 10.71 | 10.71 | 33.744 | 25.849 | 214.2 | 0.020 | 5.29 | 84.3 | 20.5 | 1.21 | 17.6 | 0.28 | 3.47 | 0.72 | 9 |
| 1 | 10 ISL | 10.64 | 10.64 | 33.745 | 25.863 | 212.9 | 0.022 | 5.19 | 82.6 | 20.7 | 1.23 | 17.9 | 0.28 | 3.27 | 0.71 | 10 |
| 1 | 20 | 10.17 | 10.17 | 33.758 | 25.954 | 204.5 | 0.043 | 4.31 | 67.9 | 22.6 | 1.39 | 20.9 | 0.23 | 1.39 | 0.65 | 20 |
| 1 | 29 | 10.07 | 10.07 | 33.770 | 25.981 | 202.1 | 0.061 | 4.03 | 63.3 | 23.7 | 1.47 | 22.1 | 0.18 | 1.26 | 0.51 | 29 |
| 1 | 30 ISL | 10.05 | 10.05 | 33.771 | 25.985 | 201.8 | 0.063 | 4.00 | 62.8 | 23.8 | 1.48 | 22.2 | 0.17 | 1.24 | 0.50 | 30 |
| 1 | 39 | 9.77 | 9.77 | 33.788 | 26.045 | 196.2 | 0.081 | 3.66 | 57.1 | 25.0 | 1.54 | 23.2 | 0.14 | 0.97 | 0.42 | 39 |
| 1 | 49 | 9.41 | 9.40 | 33.847 | 26.151 | 186.4 | 0.100 | 3.22 | 49.9 | 28.7 | 1.65 | 25.0 | 0.15 | 0.46 | 0.38 | 49 |
| 1 | 50 ISL | 9.37 | 9.36 | 33.853 | 26.162 | 185.3 | 0.102 | 3.18 | 49.2 | 29.1 | 1.66 | 25.2 | 0.15 | 0.42 | 0.37 | 50 |
| 1 | 59 | 9.06 | 9.05 | 33.905 | 26.253 | 176.9 | 0.119 | 2.90 | 44.6 | 32.2 | 1.74 | 26.3 | 0.14 | 0.18 | 0.34 | 59 |
| 1 | 75 | 8.95 | 8.94 | 33.936 | 26.294 | 173.2 | 0.147 | 2.76 | 42.3 | 35.0 | 1.83 | 26.9 | 0.17 | 0.21 | 0.45 | 76 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 77 51

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-----------|------|-------|-------|-------|
| 35 1.2 N | 120 55.2 W | 11/05/88 | 2013 UTC | 250 M | 310 | 16 KT | 290 03 05 | 0 | 1018.3 MB | 16.6 C | 14.5 C | 0/8 | | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 13.18 | 13.18 | 33.467 | 25.170 | 278.6 | 0.000 | 6.52 | 109.4 | 2.1 | 0.51 | 4.4 | 0.24 | 3.13 | 0.21 | 0 |
| 1 | 1 | 13.18 | 13.18 | 33.467 | 25.170 | 278.6 | 0.003 | 6.52 | 109.4 | 2.1 | 0.51 | 4.4 | 0.24 | 3.13 | 0.21 | 1 |
| 1 | 10 ISL | 12.87 | 12.87 | 33.472 | 25.236 | 272.6 | 0.028 | 6.36 | 106.0 | 3.0 | 0.55 | 5.1 | 0.28 | 3.02 | 0.36 | 10 |
| 1 | 12 | 12.76 | 12.76 | 33.477 | 25.261 | 270.2 | 0.033 | 6.33 | 105.3 | 3.2 | 0.56 | 5.2 | 0.29 | 3.00 | 0.39 | 12 |
| 1 | 20 ISL | 12.30 | 12.30 | 33.517 | 25.382 | 259.0 | 0.054 | 5.90 | 97.2 | 6.4 | 0.68 | 7.8 | 0.37 | 1.94 | 0.33 | 20 |
| 1 | 22 | 12.16 | 12.16 | 33.529 | 25.418 | 255.6 | 0.059 | 5.76 | 94.6 | 7.4 | 0.72 | 8.7 | 0.39 | 1.63 | 0.32 | 22 |
| 1 | 30 ISL | 11.37 | 11.37 | 33.571 | 25.597 | 238.7 | 0.079 | 5.14 | 83.0 | 11.9 | 0.93 | 13.3 | 0.39 | 0.76 | 0.46 | 30 |
| 1 | 32 | 11.19 | 11.19 | 33.582 | 25.639 | 234.8 | 0.084 | 5.00 | 80.5 | 12.9 | 0.98 | 14.3 | 0.39 | 0.60 | 0.49 | 32 |
| 1 | 42 | 10.92 | 10.91 | 33.620 | 25.717 | 227.6 | 0.107 | 4.85 | 77.6 | 14.9 | 1.11 | 16.0 | 0.40 | 0.49 | 0.44 | 42 |
| 1 | 50 ISL | 10.39 | 10.38 | 33.643 | 25.827 | 217.2 | 0.125 | 4.28 | 67.7 | 17.7 | 1.24 | 18.8 | 0.29 | 0.37 | 0.46 | 50 |
| 1 | 52 | 10.26 | 10.25 | 33.650 | 25.855 | 214.6 | 0.129 | 4.14 | 65.3 | 18.4 | 1.27 | 19.5 | 0.26 | 0.35 | 0.47 | 52 |
| 1 | 61 | 10.09 | 10.08 | 33.709 | 25.930 | 207.6 | 0.148 | 4.00 | 62.9 | 20.7 | 1.40 | 20.9 | 0.27 | 0.42 | 0.52 | 61 |
| 1 | 72 | 9.82 | 9.81 | 33.781 | 26.032 | 198.2 | 0.170 | 3.65 | 57.0 | 24.0 | 1.54 | 23.1 | 0.21 | 0.46 | 0.55 | 73 |
| 1 | 75 ISL | 9.73 | 9.72 | 33.791 | 26.055 | 196.1 | 0.176 | 3.48 | 54.3 | 24.6 | 1.57 | 23.6 | 0.18 | 0.39 | 0.49 | 76 |
| 1 | 87 | 9.35 | 9.34 | 33.822 | 26.142 | 188.0 | 0.199 | 2.88 | 44.6 | 26.5 | 1.67 | 25.1 | 0.05 | 0.07 | 0.22 | 88 |
| 1 | 100 ISL | 9.02 | 9.01 | 33.879 | 26.239 | 179.0 | 0.223 | 2.93 | 45.0 | 28.6 | 1.71 | 25.9 | 0.04 | 0.04 | 0.18 | 101 |
| 1 | 107 | 8.88 | 8.87 | 33.910 | 26.286 | 174.7 | 0.236 | 2.95 | 45.2 | 29.7 | 1.72 | 26.2 | 0.03 | 0.02 | 0.16 | 108 |
| 1 | 125 | 8.73 | 8.72 | 33.967 | 26.354 | 168.5 | 0.266 | 2.79 | 42.6 | 32.2 | 1.81 | 26.9 | 0.03 | 0.01 | 0.15 | 126 |
| 1 | 146 | 8.35 | 8.33 | 34.000 | 26.438 | 160.8 | 0.301 | 2.91 | 44.1 | 34.3 | 1.84 | 27.4 | 0.03 | 0.01 | 0.12 | 147 |
| 1 | 150 ISL | 8.30 | 8.28 | 34.008 | 26.452 | 159.5 | 0.307 | 2.85 | 43.1 | 35.1 | 1.86 | 27.7 | 0.03 | 0.01 | 0.12 | 151 |
| 1 | 175 | 8.10 | 8.08 | 34.061 | 26.525 | 153.1 | 0.347 | 2.32 | 34.9 | 40.5 | 2.04 | 30.0 | 0.03 | 0.01 | 0.10 | 176 |
| 1 | 200 ISL | 7.94 | 7.92 | 34.093 | 26.573 | 148.8 | 0.384 | 2.03 | 30.5 | 44.1 | 2.18 | 31.3 | 0.04 | 0.01 | 0.12 | 202 |
| 1 | 205 | 7.91 | 7.89 | 34.099 | 26.583 | 148.1 | 0.392 | 1.97 | 29.5 | 44.8 | 2.21 | 31.5 | 0.04 | 0.01 | 0.12 | 207 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 77 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSANGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-----------|------|-------|-------|-------|
| 34 53.1 N | 121 11.9 W | 11/05/88 | 1655 UTC | 562 M | 310 | 15 KT | 290 03 05 | 0 | 1019.0 MB | 16.2 C | 14.9 C | 0/8 | | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 12.97 | 12.97 | 33.430 | 25.183 | 277.3 | 0.000 | 6.24 | 104.2 | 4.4 | 0.66 | 5.1 | 0.25 | 1.58 | 0.14 | 0 |
| 1 | 2 | 12.97 | 12.97 | 33.430 | 25.183 | 277.4 | 0.006 | 6.24 | 104.2 | 4.4 | 0.66 | 5.1 | 0.25 | 1.58 | 0.14 | 2 |
| 1 | 10 ISL | 12.92 | 12.92 | 33.432 | 25.195 | 276.5 | 0.028 | 6.25 | 104.3 | 4.5 | 0.66 | 5.2 | 0.25 | 1.57 | 0.19 | 10 |
| 1 | 11 | 12.91 | 12.91 | 33.432 | 25.197 | 276.3 | 0.030 | 6.25 | 104.2 | 4.5 | 0.66 | 5.2 | 0.25 | 1.57 | 0.20 | 11 |
| 1 | 20 ISL | 12.31 | 12.31 | 33.484 | 25.354 | 261.6 | 0.055 | 6.18 | 101.8 | 5.3 | 0.80 | 6.4 | 0.27 | 2.25 | 0.22 | 20 |
| 1 | 21 | 12.23 | 12.23 | 33.492 | 25.376 | 259.6 | 0.057 | 6.17 | 101.5 | 5.4 | 0.80 | 6.6 | 0.27 | 2.30 | 0.22 | 21 |
| 1 | 30 ISL | 11.72 | 11.72 | 33.565 | 25.528 | 245.2 | 0.080 | 5.55 | 90.3 | 10.1 | 10.8 | 4.40 | 1.26 | 1.26 | 0.48 | 30 |
| 1 | 31 | 11.67 | 11.67 | 33.572 | 25.543 | 243.9 | 0.082 | 5.47 | 88.9 | 10.7 | 11.3 | 4.42 | 1.11 | 1.11 | 0.50 | 31 |
| 1 | 40 | 11.13 | 11.13 | 33.582 | 25.650 | 234.0 | 0.104 | 4.92 | 79.1 | 13.6 | 1.25 | 14.7 | 0.45 | 0.39 | 0.37 | 40 |
| 1 | 49 | 10.53 | 10.52 | 33.588 | 25.760 | 223.6 | 0.125 | 4.34 | 68.8 | 16.1 | 1.40 | 17.3 | 0.26 | 0.19 | 0.36 | 49 |
| 1 | 50 ISL | 10.48 | 10.47 | 33.596 | 25.775 | 222.2 | 0.127 | 4.27 | 67.6 | 16.5 | 1.42 | 17.7 | 0.23 | 0.18 | 0.35 | 50 |
| 1 | 60 | 10.09 | 10.08 | 33.686 | 25.912 | 209.3 | 0.148 | 3.70 | 58.1 | 20.5 | 1.62 | 21.3 | 0.02 | 0.10 | 0.22 | 60 |
| 1 | 68 | 9.94 | 9.93 | 33.708 | 25.955 | 205.4 | 0.165 | 3.56 | 55.8 | 21.9 | 1.68 | 22.0 | 0.02 | 0.08 | 0.22 | 69 |
| 1 | 75 ISL | 9.81 | 9.80 | 33.748 | 26.008 | 200.5 | 0.179 | 3.37 | 52.7 | 23.5 | 1.73 | 22.7 | 0.02 | 0.07 | 0.20 | 76 |
| 1 | 83 | 9.67 | 9.66 | 33.791 | 26.065 | 195.3 | 0.195 | 3.18 | 49.5 | 25.2 | 1.77 | 23.4 | 0.02 | 0.06 | 0.17 | 84 |
| 1 | 97 | 9.43 | 9.42 | 33.805 | 26.115 | 190.7 | 0.222 | 3.15 | 48.8 | 26.1 | 1.80 | 24.2 | 0.01 | 0.06 | 0.19 | 98 |
| 1 | 100 ISL | 9.36 | 9.35 | 33.813 | 26.133 | 189.1 | 0.228 | 3.13 | 48.4 | 26.4 | 1.81 | 24.5 | 0.01 | 0.05 | 0.19 | 101 |
| 1 | 116 | 9.02 | 9.01 | 33.870 | 26.232 | 179.9 | 0.257 | 3.01 | 46.2 | 28.7 | 1.89 | 26.0 | 0.01 | 0.02 | 0.16 | 117 |
| 1 | 125 ISL | 8.96 | 8.95 | 33.909 | 26.273 | 176.3 | 0.273 | 2.90 | 44.5 | 30.3 | 1.94 | 26.5 | 0.01 | 0.03 | 0.17 | 126 |
| 1 | 140 | 8.91 | 8.90 | 33.970 | 26.328 | 171.3 | 0.299 | 2.70 | 41.4 | 33.0 | 2.01 | 27.2 | 0.01 | 0.04 | 0.19 | 141 |
| 1 | 150 ISL | 8.79 | 8.77 | 33.993 | 26.365 | 167.9 | 0.316 | 2.64 | 40.4 | 34.2 | 2.04 | 27.7 | 0.01 | 0.03 | 0.18 | 151 |
| 1 | 170 | 8.50 | 8.48 | 34.029 | 26.439 | 161.3 | 0.349 | 2.49 | 37.8 | 36.8 | 2.12 | 28.8 | 0.01 | 0.01 | 0.17 | 171 |
| 1 | 199 | 8.17 | 8.15 | 34.104 | 26.548 | 151.3 | 0.395 | 1.99 | 30.0 | 42.7 | 2.32 | 30.9 | 0.01 | 0.02 | 0.12 | 201 |
| 1 | 200 ISL | 8.16 | 8.14 | 34.105 | 26.550 | 151.1 | 0.396 | 1.98 | 29.9 | 42.9 | 2.32 | 31.0 | 0.01 | 0.01 | 0.20 | 202 |
| 1 | 228 | 7.82 | 7.80 | 34.122 | 26.614 | 145.4 | 0.438 | 1.79 | 26.8 | 47.3 | 2.43 | 32.5 | 0.01 | 0.01 | 0.23 | 230 |
| 1 | 250 ISL | 7.60 | 7.58 | 34.138 | 26.659 | 141.5 | 0.469 | 1.60 | 23.8 | 50.8 | 2.52 | 33.6 | 0.01 | 0.01 | 0.25 | 252 |
| 1 | 268 | | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN CALCOFI CRUISE 8805 STATION 77 60

| 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 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | PSS 78 | THETA | SVA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.62 | 13.62 | 33.421 | 25.046 | 290.4 | 0.000 | 6.16 | 104.3 | 3.3 | 3.1 | 0.17 | 1.09 | 0.01 | 0 | |
| 1 | 9 | 13.55 | 13.55 | 33.426 | 25.064 | 288.9 | 0.026 | 6.18 | 104.4 | 3.4 | 3.2 | 0.18 | 1.42 | 0.00 | 9 | |
| 1 | 10 ISL | 13.49 | 13.49 | 33.429 | 25.079 | 287.5 | 0.029 | 6.17 | 104.1 | 3.6 | 3.3 | 0.19 | 1.36 | 0.00 | 10 | |
| 1 | 19 | 12.98 | 12.98 | 33.458 | 25.203 | 275.9 | 0.054 | 6.10 | 101.9 | 5.4 | 4.7 | 0.25 | 0.72 | 0.05 | 19 | |
| 1 | 20 ISL | 12.97 | 12.97 | 33.459 | 25.206 | 275.7 | 0.057 | 6.10 | 101.9 | 5.5 | 4.8 | 0.25 | 0.72 | 0.06 | 20 | |
| 1 | 29 | 12.90 | 12.90 | 33.467 | 25.227 | 274.0 | 0.082 | 6.07 | 101.2 | 5.9 | 5.2 | 0.26 | 0.70 | 0.20 | 29 | |
| 1 | 30 ISL | 12.88 | 12.88 | 33.468 | 25.231 | 273.5 | 0.085 | 6.07 | 101.2 | 5.9 | 5.3 | 0.26 | 0.73 | 0.23 | 30 | |
| 1 | 40 | 12.67 | 12.66 | 33.473 | 25.277 | 269.5 | 0.112 | 5.98 | 99.2 | 5.7 | 6.0 | 0.26 | 0.99 | 0.43 | 40 | |
| 1 | 50 | 12.50 | 12.49 | 33.480 | 25.315 | 266.1 | 0.138 | 5.68 | 93.9 | 6.7 | 7.3 | 0.34 | 0.85 | 0.26 | 50 | |
| 1 | 60 | 11.82 | 11.81 | 33.515 | 25.472 | 251.4 | 0.164 | 5.16 | 84.1 | 8.1 | 10.4 | 0.63 | 0.67 | 0.18 | 60 | |
| 1 | 70 | 11.12 | 11.11 | 33.572 | 25.644 | 235.2 | 0.189 | 4.56 | 73.2 | 12.0 | 15.0 | 0.69 | 0.33 | 0.23 | 71 | |
| 1 | 75 ISL | 10.77 | 10.76 | 33.591 | 25.721 | 227.9 | 0.200 | 4.32 | 68.9 | 14.0 | 16.9 | 0.53 | 0.24 | 0.21 | 76 | |
| 1 | 85 | 10.20 | 10.19 | 33.626 | 25.847 | 216.1 | 0.222 | 3.94 | 62.0 | 17.7 | 19.7 | 0.17 | 0.15 | 0.15 | 86 | |
| 1 | 99 | 9.91 | 9.90 | 33.686 | 25.943 | 207.2 | 0.252 | 3.52 | 55.1 | 20.9 | 21.7 | 0.06 | 0.08 | 0.18 | 100 | |
| 1 | 100 ISL | 9.89 | 9.88 | 33.693 | 25.952 | 206.4 | 0.254 | 3.49 | 54.6 | 21.2 | 21.9 | 0.06 | 0.08 | 0.18 | 101 | |
| 1 | 119 | 9.41 | 9.40 | 33.855 | 26.143 | 188.6 | 0.292 | 3.03 | 46.9 | 26.5 | 24.5 | 0.02 | 0.11 | 0.19 | 120 | |
| 1 | 125 ISL | 9.27 | 9.26 | 33.873 | 26.195 | 183.7 | 0.303 | 2.93 | 45.3 | 28.1 | 25.2 | 0.02 | 0.09 | 0.18 | 126 | |
| 1 | 145 | 8.84 | 8.82 | 33.966 | 26.336 | 170.6 | 0.338 | 2.78 | 42.5 | 32.3 | 26.9 | 0.01 | 0.02 | 0.15 | 146 | |
| 1 | 150 ISL | 8.72 | 8.70 | 33.976 | 26.363 | 168.1 | 0.347 | 2.85 | 43.5 | 32.8 | 26.9 | 0.01 | 0.02 | 0.14 | 151 | |
| 1 | 175 | 8.18 | 8.16 | 34.002 | 26.466 | 158.7 | 0.388 | 3.15 | 47.5 | 35.0 | 27.1 | 0.02 | 0.01 | 0.08 | 176 | |
| 1 | 200 ISL | 7.80 | 7.78 | 34.032 | 26.546 | 151.4 | 0.426 | 2.78 | 41.6 | 40.2 | 29.3 | 0.01 | 0.02 | 0.09 | 202 | |
| 1 | 204 | 7.75 | 7.73 | 34.036 | 26.557 | 150.4 | 0.432 | 2.69 | 40.2 | 41.1 | 29.7 | 0.01 | 0.02 | 0.09 | 206 | |
| 1 | 233 | 7.45 | 7.43 | 34.054 | 26.614 | 145.3 | 0.475 | 2.30 | 34.1 | 46.7 | 31.8 | 0.01 | | | 235 | |
| 1 | 250 ISL | 7.20 | 7.18 | 34.055 | 26.650 | 142.1 | 0.500 | 2.17 | 32.0 | 49.9 | 32.8 | 0.01 | | | 252 | |
| 1 | 273 | 6.87 | 6.84 | 34.056 | 26.696 | 137.9 | 0.532 | 2.02 | 29.6 | 54.1 | 34.0 | 0.01 | | | 275 | |
| 1 | 300 ISL | 6.60 | 6.57 | 34.068 | 26.742 | 133.8 | 0.569 | 1.73 | 25.1 | 58.9 | 35.7 | 0.01 | | | 302 | |
| 1 | 327 | 6.40 | 6.37 | 34.087 | 26.784 | 130.1 | 0.604 | 1.43 | 20.7 | 63.4 | 37.2 | 0.00 | | | 330 | |
| 1 | 383 | 6.09 | 6.06 | 34.138 | 26.865 | 123.0 | 0.675 | 0.99 | 14.2 | 71.3 | 39.3 | 0.00 | | | 386 | |
| 1 | 400 ISL | 6.10 | 6.06 | 34.171 | 26.890 | 120.9 | 0.696 | 0.85 | 12.2 | 73.0 | 39.5 | 0.00 | | | 403 | |
| 1 | 449 | 6.13 | 6.09 | 34.262 | 26.958 | 115.2 | 0.754 | 0.51 | 7.3 | 77.4 | 40.0 | 0.00 | | | 453 | |
| 1 | 500 ISL | 5.86 | 5.82 | 34.282 | 27.009 | 110.9 | 0.811 | 0.42 | 6.0 | 82.0 | 41.1 | 0.00 | | | 504 | |
| 1 | 514 | 5.79 | 5.75 | 34.288 | 27.022 | 109.7 | 0.827 | 0.39 | 5.6 | 83.3 | 41.4 | 0.00 | | | 519 | |

RV DAVID STARR JORDAN CALCOFI CRUISE 8805 STATION 77 70

| 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 | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| M | DEG C | DEG C | PSS 78 | THETA | SVA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 14.30 | 14.30 | 33.223 | 24.752 | 318.3 | 0.000 | 6.19 | 106.1 | 2.8 | 0.5 | 0.04 | 0.29 | 0.05 | 0 | |
| 1 | 1 | 14.30 | 14.30 | 33.223 | 24.752 | 318.4 | 0.003 | 6.19 | 106.1 | 2.8 | 0.5 | 0.04 | 0.29 | 0.05 | 1 | |
| 1 | 10 ISL | 14.27 | 14.27 | 33.216 | 24.754 | 318.5 | 0.032 | 6.19 | 106.0 | 2.9 | 0.5 | 0.04 | 0.31 | 0.05 | 10 | |
| 1 | 11 | 14.27 | 14.27 | 33.215 | 24.753 | 318.6 | 0.035 | 6.19 | 106.0 | 2.9 | 0.5 | 0.04 | 0.31 | 0.05 | 11 | |
| 1 | 20 | 14.13 | 14.13 | 33.191 | 24.764 | 317.8 | 0.064 | 6.20 | 105.9 | 3.0 | 0.4 | 0.02 | 0.26 | 0.12 | 20 | |
| 1 | 30 ISL | 13.58 | 13.58 | 33.194 | 24.879 | 307.1 | 0.095 | 6.25 | 105.5 | 2.9 | 0.4 | 0.04 | 0.34 | 0.09 | 30 | |
| 1 | 31 | 13.52 | 13.52 | 33.194 | 24.891 | 305.9 | 0.098 | 6.25 | 105.4 | 2.9 | 0.4 | 0.04 | 0.35 | 0.08 | 31 | |
| 1 | 40 | 13.29 | 13.28 | 33.169 | 24.919 | 303.6 | 0.125 | 6.22 | 104.4 | 2.8 | 0.5 | 0.05 | 0.39 | 0.09 | 40 | |
| 1 | 50 ISL | 13.26 | 13.25 | 33.176 | 24.930 | 302.7 | 0.156 | 6.19 | 103.8 | 2.7 | 0.7 | 0.06 | 0.41 | 0.13 | 50 | |
| 1 | 51 | 13.26 | 13.25 | 33.178 | 24.932 | 302.6 | 0.159 | 6.19 | 103.8 | 2.7 | 0.7 | 0.06 | 0.41 | 0.13 | 51 | |
| 1 | 60 | 13.19 | 13.18 | 33.230 | 24.986 | 297.7 | 0.186 | 6.05 | 101.4 | 2.6 | 1.5 | 0.28 | 0.64 | 0.26 | 60 | |
| 1 | 70 | 12.32 | 12.31 | 33.323 | 25.229 | 274.8 | 0.214 | 5.40 | 88.9 | 5.3 | 6.6 | 0.10 | 0.43 | 0.23 | 71 | |
| 1 | 75 ISL | 12.13 | 12.12 | 33.349 | 25.285 | 269.6 | 0.228 | 5.23 | 85.7 | 6.4 | 8.0 | 0.08 | 0.38 | 0.24 | 76 | |
| 1 | 84 | 11.81 | 11.80 | 33.386 | 25.374 | 261.3 | 0.252 | 4.98 | 81.1 | 8.7 | 10.2 | 0.04 | 0.31 | 0.26 | 85 | |
| 1 | 99 | 10.52 | 10.51 | 33.489 | 25.686 | 231.7 | 0.289 | 4.30 | 68.1 | 14.8 | 16.3 | 0.01 | 0.11 | 0.15 | 100 | |
| 1 | 100 ISL | 10.46 | 10.45 | 33.494 | 25.700 | 230.4 | 0.291 | 4.27 | 67.6 | 15.1 | 16.6 | 0.01 | 0.11 | 0.15 | 101 | |
| 1 | 120 | 9.70 | 9.69 | 33.609 | 25.918 | 209.9 | 0.335 | 3.88 | 60.4 | 19.9 | 20.4 | 0.01 | 0.05 | 0.09 | 121 | |
| 1 | 125 ISL | 9.56 | 9.55 | 33.657 | 25.979 | 204.3 | 0.346 | 3.77 | 58.5 | 21.3 | 21.3 | 0.01 | 0.04 | 0.08 | 126 | |
| 1 | 145 | 9.14 | 9.12 | 33.844 | 26.193 | 184.2 | 0.384 | 3.43 | 52.8 | 26.3 | 24.0 | 0.01 | 0.02 | 0.06 | 146 | |
| 1 | 150 ISL | 9.05 | 9.03 | 33.871 | 26.229 | 181.0 | 0.394 | 3.44 | 52.9 | 27.0 | 24.2 | 0.01 | 0.02 | 0.06 | 151 | |
| 1 | 175 | 8.65 | 8.63 | 33.957 | 26.359 | 168.9 | 0.437 | 3.46 | 52.7 | 30.0 | 25.0 | 0.02 | 0.01 | 0.05 | 176 | |
| 1 | 200 ISL | 8.28 | 8.26 | 34.000 | 26.450 | 160.7 | 0.478 | 3.14 | 47.5 | 34.5 | 27.1 | 0.01 | 0.02 | 0.06 | 202 | |
| 1 | 203 | 8.24 | 8.22 | 34.003 | 26.458 | 159.9 | 0.483 | 3.09 | 46.7 | 35.1 | 27.4 | 0.01 | 0.02 | 0.06 | 205 | |
| 1 | 233 | 7.80 | 7.78 | 34.026 | 26.542 | 152.4 | 0.530 | 2.81 | 42.0 | 40.8 | 29.5 | 0.01 | | | 235 | |
| 1 | 250 ISL | 7.63 | 7.61 | 34.041 | 26.578 | 149.1 | 0.556 | 2.55 | 38.0 | 43.7 | 30.8 | 0.01 | | | 252 | |
| 1 | 273 | 7.44 | 7.41 | 34.059 | 26.620 | 145.5 | 0.590 | 2.20 | 32.6 | 47.5 | 32.5 | 0.01 | | | 275 | |
| 1 | 300 ISL | 7.16 | 7.13 | 34.067 | 26.666 | 141.4 | 0.628 | 1.96 | 28.9 | 51.8 | 34.0 | 0.01 | | | 302 | |
| 1 | 326 | 6.89 | 6.86 | 34.075 | 26.709 | 137.5 | 0.665 | 1.76 | 25.8 | 56.2 | 35.3 | 0.00 | | | 329 | |
| 1 | 384 | 6.32 | 6.29 | 34.132 | 26.830 | 126.5 | 0.741 | 1.03 | 14.9 | 68.1 | 38.8 | 0.00 | | | 387 | |
| 1 | 400 ISL | 6.20 | 6.16 | 34.144 | 26.855 | 124.2 | 0.761 | 0.92 | 13.3 | 70.4 | 39.4 | 0.00 | | | 403 | |
| 1 | 449 | 5.88 | 5.84 | 34.174 | 26.920 | 118.5 | 0.821 | 0.69 | 9.9 | 76.6 | 40.9 | 0.00 | | | 453 | |
| 1 | 500 ISL | 5.53 | 5.49 | 34.198 | 26.982 | 113.0 | 0.880 | 0.53 | 7.5 | 83.5 | 42.1 | 0.00 | | | 504 | |
| 1 | 518 | 5.41 | 5.37</td | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 80 51

| LATITUDE | LONGITUDE | DAY/MO/TR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|--------|--------|-------|
| 34 27.0 N | 120 31.4 W | 10/05/88 | 1422 UTC | 76 M | 280 | 17 KT | 280 02 | 04 | 0 | 1019.2 MB | 11.5 C | 11.4 C | 0/8 | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 ISL | 9.89 | 9.89 | 33.925 | 26.131 | 187.2 | 0.000 | 4.26 | 66.8 | 27.5 | 1.51 | 22.5 | 0.21 | 4.75 | 0.75 | 0 |
| 1 | 1 | 9.89 | 9.89 | 33.925 | 26.131 | 187.2 | 0.002 | 4.26 | 66.8 | 27.5 | 1.51 | 22.5 | 0.21 | 4.75 | 0.75 | 1 |
| 1 | 10 ISL | 9.87 | 9.87 | 33.929 | 26.138 | 186.8 | 0.019 | 4.28 | 67.0 | 27.2 | 1.58 | 22.3 | 0.21 | 4.89 | 0.91 | 10 |
| 1 | 11 | 9.87 | 9.87 | 33.929 | 26.138 | 186.8 | 0.021 | 4.28 | 67.0 | 27.2 | 1.59 | 22.3 | 0.21 | 4.90 | 0.92 | 11 |
| 1 | 20 ISL | 9.80 | 9.80 | 33.946 | 26.163 | 184.6 | 0.037 | 3.91 | 61.2 | 28.3 | 1.70 | 23.3 | 0.21 | 4.00 | 0.55 | 20 |
| 1 | 21 | 9.79 | 9.79 | 33.948 | 26.167 | 184.3 | 0.039 | 3.86 | 60.4 | 28.5 | 1.71 | 23.4 | 0.21 | 3.88 | 0.50 | 21 |
| 1 | 30 ISL | 9.73 | 9.73 | 33.963 | 26.188 | 182.4 | 0.056 | 3.66 | 57.2 | 29.5 | 1.80 | 24.1 | 0.20 | 3.12 | 0.53 | 30 |
| 1 | 31 | 9.72 | 9.72 | 33.964 | 26.191 | 182.2 | 0.057 | 3.64 | 56.8 | 29.6 | 1.81 | 24.2 | 0.20 | 3.05 | 0.53 | 31 |
| 1 | 41 | 9.65 | 9.65 | 33.972 | 26.209 | 180.7 | 0.076 | 3.45 | 53.8 | 30.7 | 1.84 | 24.6 | 0.20 | 2.71 | 0.64 | 41 |
| 1 | 50 ISL | 9.61 | 9.60 | 33.976 | 26.219 | 180.0 | 0.092 | 3.33 | 51.9 | 31.1 | 1.87 | 25.0 | 0.19 | | | 50 |
| 1 | 51 | 9.60 | 9.59 | 33.976 | 26.220 | 179.8 | 0.094 | 3.32 | 51.7 | 31.1 | 1.87 | 25.0 | 0.19 | 2.35 U | 0.61 U | 51 |
| 1 | 60 | 9.09 | 9.08 | 34.015 | 26.334 | 169.2 | 0.109 | 2.45 | 37.7 | 34.8 | 2.05 | 27.4 | 0.16 | 1.04 U | 0.94 U | 60 |
| 1 | 70 | 8.94 | 8.93 | 34.033 | 26.372 | 165.8 | 0.126 | 2.23 | 34.2 | 36.5 | 2.13 | 28.2 | 0.15 | | | 71 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 80 55

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|-----------|------------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|-------|-------|
| 34 19.1 N | 120 48.0 W | 10/05/88 | 1703 UTC | 764 M | 310 | 17 KT | 3 20 | 03 04 | 0 | 1020.5 MB | 15.1 C | 12.9 C | 0/8 | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 11.68 | 11.68 | 33.746 | 25.676 | 230.5 | 0.000 | 5.85 | 95.2 | 16.9 | 14.0 | 0.24 | 4.05 | 1.03 | 0 | |
| 1 | 10 | 11.53 | 11.53 | 33.747 | 25.704 | 228.0 | 0.023 | 5.83 | 94.6 | 17.0 | 13.9 | 0.24 | 3.56 | 0.91 | 10 | |
| 1 | 19 | 11.42 | 11.42 | 33.759 | 25.734 | 225.4 | 0.043 | 5.67 | 91.8 | 16.8 | 14.3 | 0.23 | 1.70 | 1.09 | 19 | |
| 1 | 20 ISL | 11.33 | 11.33 | 33.763 | 25.754 | 223.6 | 0.046 | 5.56 | 89.8 | 17.1 | 14.7 | 0.23 | 1.61 | 1.08 | 20 | |
| 1 | 30 | 10.40 | 10.40 | 33.809 | 25.955 | 204.6 | 0.067 | 4.33 | 68.6 | 20.8 | 19.4 | 0.28 | 1.07 | 1.00 | 30 | |
| 1 | 39 | 10.14 | 10.14 | 33.822 | 26.010 | 199.6 | 0.085 | 3.87 | 60.9 | 23.0 | 20.9 | 0.28 | 0.45 | 0.58 | 39 | |
| 1 | 50 | 9.85 | 9.84 | 33.858 | 26.087 | 192.5 | 0.107 | 3.25 | 50.9 | 24.7 | 23.2 | 0.23 | 0.28 | 0.44 | 50 | |
| 1 | 60 | 9.50 | 9.49 | 33.893 | 26.172 | 184.6 | 0.126 | 3.03 | 47.1 | 26.5 | 24.5 | 0.21 | 0.11 | 0.39 | 60 | |
| 1 | 70 | 9.29 | 9.28 | 33.924 | 26.231 | 179.2 | 0.144 | 2.77 | 42.8 | 27.2 | 25.5 | 0.16 | 0.03 | 0.24 | 71 | |
| 1 | 75 ISL | 9.15 | 9.14 | 33.938 | 26.264 | 176.1 | 0.153 | 2.76 | 42.5 | 27.7 | 25.9 | 0.11 | 0.03 | 0.25 | 76 | |
| 1 | 84 | 8.90 | 8.89 | 33.958 | 26.320 | 171.0 | 0.168 | 2.74 | 42.0 | 28.5 | 26.4 | 0.04 | 0.02 | 0.27 | 85 | |
| 1 | 99 | 8.71 | 8.70 | 33.981 | 26.368 | 166.7 | 0.194 | 2.82 | 43.0 | 29.2 | 26.3 | 0.04 | | | 100 | |
| 1 | 100 ISL | 8.69 | 8.68 | 33.983 | 26.372 | 166.3 | 0.195 | 2.81 | 42.9 | 29.4 | 26.4 | 0.04 | 0.02 | 0.24 | 101 | |
| 1 | 119 | 8.43 | 8.42 | 34.022 | 26.443 | 159.9 | 0.226 | 2.60 | 39.4 | 33.2 | 27.9 | 0.02 | 0.03 | 0.17 | 120 | |
| 1 | 125 ISL | 8.39 | 8.38 | 34.030 | 26.456 | 158.8 | 0.236 | 2.56 | 38.8 | 33.9 | 28.1 | 0.02 | 0.03 | 0.16 | 126 | |
| 1 | 144 | 8.29 | 8.28 | 34.055 | 26.491 | 155.8 | 0.266 | 2.40 | 36.3 | 36.3 | 28.7 | 0.02 | 0.02 | 0.14 | 145 | |
| 1 | 150 ISL | 8.25 | 8.23 | 34.068 | 26.507 | 154.3 | 0.275 | 2.29 | 34.6 | 37.6 | 29.2 | 0.02 | 0.02 | 0.14 | 151 | |
| 1 | 174 | 8.09 | 8.07 | 34.122 | 26.574 | 148.4 | 0.311 | 1.84 | 27.7 | 42.7 | 31.1 | 0.02 | 0.01 | 0.14 | 175 | |
| 1 | 200 ISL | 7.94 | 7.92 | 34.157 | 26.624 | 144.1 | 0.349 | 1.58 | 23.7 | 45.5 | 32.3 | 0.01 | 0.02 | 0.11 | 202 | |
| 1 | 204 | 7.92 | 7.90 | 34.161 | 26.630 | 143.6 | 0.355 | 1.55 | 23.3 | 45.8 | 32.4 | 0.01 | 0.02 | 0.10 | 206 | |
| 1 | 233 | 7.75 | 7.73 | 34.178 | 26.669 | 140.4 | 0.396 | 1.38 | 20.6 | 48.5 | 33.5 | 0.01 | | | 235 | |
| 1 | 250 ISL | 7.66 | 7.64 | 34.186 | 26.688 | 138.8 | 0.420 | 1.31 | 19.5 | 50.0 | 33.9 | 0.01 | | | 252 | |
| 1 | 272 | 7.54 | 7.51 | 34.195 | 26.713 | 136.7 | 0.450 | 1.22 | 18.1 | 52.1 | 34.4 | 0.01 | | | 274 | |
| 1 | 300 ISL | 7.32 | 7.29 | 34.211 | 26.757 | 132.9 | 0.488 | 1.05 | 15.5 | 55.4 | 35.3 | 0.00 | | | 302 | |
| 1 | 326 | 7.10 | 7.07 | 34.226 | 26.800 | 129.2 | 0.522 | 0.90 | 13.2 | 58.7 | 36.1 | 0.00 | | | 329 | |
| 1 | 385 | 6.71 | 6.67 | 34.257 | 26.878 | 122.4 | 0.596 | 0.68 | 9.9 | 65.8 | 37.9 | 0.00 | | | 388 | |
| 1 | 400 ISL | 6.61 | 6.57 | 34.260 | 26.894 | 121.0 | 0.615 | 0.64 | 9.3 | 67.5 | 38.3 | 0.00 | | | 403 | |
| 1 | 448 | 6.25 | 6.21 | 34.265 | 26.945 | 116.6 | 0.672 | 0.52 | 7.5 | 73.0 | 39.6 | 0.00 | | | 452 | |
| 1 | 500 ISL | 5.82 | 5.78 | 34.279 | 27.011 | 110.6 | 0.731 | 0.40 | 5.7 | 80.0 | 41.0 | 0.00 | | | 504 | |
| 1 | 515 | 5.70 | 5.66 | 34.284 | 27.030 | 108.9 | 0.747 | 0.37 | 5.3 | 82.0 | 41.4 | 0.00 | | | 520 | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 80 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENDER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD | AMT | TYPE | | |
|----------|-----------|-----------|-----------|----------|--------|-------|--------|---------|-----------|-----------|--------|--------|------|-------|-------|-------|
| 34 8.6 N | 121 9.2 W | 10/05/88 | 2047 UTC | 2227 M | 310 | 15 KT | 3 20 | 03 05 | 0 | 1020.0 MB | 16.8 C | 14.7 C | 0/8 | | | |
| 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 | PSS 78 | THETA | | | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 1 | 0 | 13.04 | 13.04 | 33.523 | 25.242 | 271.8 | 0.000 | 6.03 | 100.9 | 5.8 | 0.75 | 6.9 | 0.26 | 0.90 | 0.20 | 0 |
| 1 | 10 | 12.84 | 12.84 | 33.526 | 25.284 | 268.0 | 0.027 | 6.03 | 100.5 | 6.1 | 0.77 | 7.0 | 0.27 | 1.02 | 0.24 | 10 |
| 1 | 20 ISL | 12.51 | 12.51 | 33.547 | 25.364 | 260.6 | 0.053 | 5.89 | 97.5 | 7.0 | 0.83 | 7.8 | 0.26 | 1.41 | 0.45 | 20 |
| 1 | 21 | 12.48 | 12.48 | 33.549 | 25.372 | 259.9 | 0.056 | 5.87 | 97.1 | 7.1 | | 7.9 | 0.26 | 1.44 | 0.47 | 21 |
| 1 | 30 | 12.42 | 12.42 | 33.552 | 25.386 | 258.8 | 0.079 | 5.77 | 95.3 | 7.5 | | 8.5 | 0.29 | 1.33 | 0.58 | 30 |
| 1 | 40 | 11.79 | 11.78 | 33.573 | 25.522 | 246.1 | 0.105 | 5.37 | 87.5 | 10.2 | 1.02 | 11.4 | 0.40 | 0.95 | 0.49 | 40 |
| 1 | 50 | 11.46 | 11.45 | 33.628 | 25.626 | 236.5 | 0.129 | 5.20 | 84.2 | 12.7 | 1.14 | 13.1 | 0.35 | 1.13 | 0.71 | 50 |
| 1 | 60 | 10.80 | 10.79 | 33.666 | 25.774 | 225.2 | 0.152 | 4.73 | 75.5 | 16.6 | 1.35 | 16.9 | 0.38 | 0.79 | 0.74 | 60 |
| 1 | 69 | 10.44 | 10.44 | 33.718 | 25.876 | 213.0 | 0.171 | 4.41 | 69.9 | 20.0 | 1.4 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 80 70

| 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 | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 33 49.1 N | 121 50.5 W | 11/05/88 | 0157 UTC | 3733 M | 310 | 14 KT | 3 20 | 03 05 | 0 | 1018.1 MB | 15.2 | 13.9 | C | 0/8 | |
| 0 ISL | 14.32 | 14.32 | 33.273 | 24.787 | 315.1 | 0.000 | 6.18 | 106.0 | 3.3 | 0.6 | 0.06 | 0.37 | 0.03 | 0.03 | 0 |
| 1 1 | 14.32 | 14.32 | 33.273 | 24.787 | 315.1 | 0.003 | 6.18 | 106.0 | 3.3 | 0.6 | 0.06 | 0.37 | 0.03 | 0.03 | 1 |
| 1 10 | 14.31 | 14.31 | 33.275 | 24.791 | 315.0 | 0.032 | 6.20 | 106.3 | 3.2 | 0.6 | 0.06 | 0.38 | 0.04 | 0.04 | 10 |
| 1 20 | 14.15 | 14.15 | 33.279 | 24.827 | 311.8 | 0.063 | 6.20 | 106.0 | 2.8 | 0.6 | 0.06 | 0.38 | 0.05 | 0.05 | 20 |
| 1 30 | 13.57 | 13.57 | 33.315 | 24.975 | 298.0 | 0.093 | 6.29 | 106.3 | 2.5 | 0.7 | 0.08 | 0.39 | 0.09 | 0.09 | 30 |
| 1 40 | 13.39 | 13.38 | 33.346 | 25.036 | 292.5 | 0.123 | 6.29 | 105.9 | 2.2 | 1.2 | 0.10 | 0.60 | 0.16 | 0.16 | 40 |
| 1 50 | 13.31 | 13.30 | 33.334 | 25.043 | 292.1 | 0.152 | 6.17 | 103.7 | 2.2 | 1.6 | 0.14 | 0.66 | 0.32 | 0.32 | 50 |
| 1 60 | 13.21 | 13.20 | 33.333 | 25.062 | 290.5 | 0.181 | 6.11 | 102.5 | 2.2 | 2.1 | 0.19 | 0.73 | 0.37 | 0.37 | 60 |
| 1 69 | 13.05 | 13.04 | 33.358 | 25.114 | 285.8 | 0.207 | 6.02 | 100.6 | 2.9 | 2.9 | 0.27 | 0.46 | 0.28 | 0.28 | 70 |
| 75 ISL | 13.01 | 13.00 | 33.392 | 25.148 | 282.7 | 0.224 | 5.98 | 99.9 | 3.9 | 3.7 | 0.28 | 0.35 | 0.23 | 0.23 | 76 |
| 1 83 | 12.92 | 12.91 | 33.436 | 25.200 | 277.9 | 0.247 | 5.90 | 98.4 | 5.1 | 4.9 | 0.30 | 0.26 | 0.17 | 0.17 | 84 |
| 1 98 | 12.33 | 12.32 | 33.452 | 25.327 | 266.1 | 0.287 | 5.54 | 91.3 | 5.6 | 7.5 | 0.61 | 0.23 | 0.15 | 0.15 | 99 |
| 100 ISL | 12.17 | 12.16 | 33.466 | 25.369 | 262.2 | 0.293 | 5.37 | 88.2 | 6.7 | 8.7 | 0.57 | 0.22 | 0.15 | 0.15 | 101 |
| 1 118 | 10.65 | 10.64 | 33.635 | 25.777 | 223.5 | 0.336 | 3.72 | 59.2 | 18.0 | 19.7 | 0.02 | 0.08 | 0.16 | 0.16 | 119 |
| 125 ISL | 10.26 | 10.25 | 33.694 | 25.891 | 212.8 | 0.352 | 3.44 | 54.3 | 20.7 | 21.8 | 0.02 | 0.05 | 0.15 | 0.15 | 126 |
| 1 143 | 9.56 | 9.54 | 33.828 | 26.113 | 192.0 | 0.388 | 3.08 | 47.9 | 25.8 | 24.7 | 0.01 | 0.01 | 0.13 | 0.13 | 144 |
| 150 ISL | 9.37 | 9.35 | 33.873 | 26.179 | 185.8 | 0.401 | 2.95 | 45.7 | 27.7 | 25.7 | 0.01 | 0.01 | 0.12 | 0.12 | 151 |
| 1 172 | 8.92 | 8.90 | 33.984 | 26.339 | 171.0 | 0.441 | 2.64 | 40.5 | 33.1 | 28.0 | 0.01 | 0.01 | 0.11 | 0.11 | 173 |
| 200 ISL | 8.42 | 8.40 | 34.061 | 26.477 | 158.2 | 0.487 | 2.32 | 35.2 | 38.7 | 30.1 | 0.01 | 0.01 | 0.10 | 0.10 | 202 |
| 1 202 | 8.39 | 8.37 | 34.064 | 26.484 | 157.6 | 0.490 | 2.30 | 34.9 | 39.1 | 30.2 | 0.01 | 0.01 | 0.10 | 0.10 | 204 |
| 1 231 | 7.95 | 7.93 | 34.101 | 26.579 | 148.9 | 0.534 | 2.04 | 30.6 | 44.2 | 31.9 | 0.01 | | | | 233 |
| 250 ISL | 7.81 | 7.79 | 34.128 | 26.621 | 145.2 | 0.562 | 1.80 | 26.9 | 47.1 | 32.8 | 0.01 | | | | 252 |
| 1 270 | 7.71 | 7.68 | 34.152 | 26.655 | 142.3 | 0.591 | 1.56 | 23.3 | 49.9 | 33.7 | 0.00 | | | | 272 |
| 300 ISL | 7.45 | 7.42 | 34.158 | 26.697 | 138.7 | 0.633 | 1.40 | 20.8 | 53.3 | 34.7 | 0.00 | | | | 302 |
| 1 325 | 7.22 | 7.19 | 34.156 | 26.728 | 136.0 | 0.667 | 1.32 | 19.5 | 56.2 | 35.4 | 0.00 | | | | 328 |
| 1 383 | 6.70 | 6.66 | 34.181 | 26.819 | 127.9 | 0.744 | 0.95 | 13.8 | 65.0 | 37.8 | 0.00 | | | | 386 |
| 400 ISL | 6.57 | 6.53 | 34.193 | 26.846 | 125.5 | 0.766 | 0.85 | 12.4 | 67.4 | 38.3 | 0.00 | | | | 403 |
| 1 446 | 6.28 | 6.24 | 34.231 | 26.915 | 119.4 | 0.822 | 0.62 | 9.0 | 73.2 | 39.5 | 0.00 | | | | 450 |
| 500 ISL | 6.11 | 6.07 | 34.290 | 26.984 | 113.5 | 0.885 | 0.43 | 6.2 | 78.3 | 40.2 | 0.00 | | | | 504 |
| 1 514 | 6.06 | 6.01 | 34.306 | 27.003 | 111.9 | 0.901 | 0.38 | 5.5 | 79.6 | 40.4 | 0.00 | | | | 518 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 82 47

| 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 | SIO3 | PO4 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| | M | DEG C | DEG C | PSS 78 | THETA | | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | D.BAR |
| 34 16.5 N | 120 1.2 W | 10/05/88 | 1013 UTC | 5 90 M | 250 | 05 KT | | | | | | | | | |
| 0 A | 11.96 | 11.96 | 33.771 | 25.643 | 233.6 | 0.000 | 6.08 | 99.6 | 12.0 | 10.0 | 0.23 | 7.98 | 0.87 | 0.87 | 0 |
| 10 ISL | 11.82 | 11.82 | 33.776 | 25.673 | 231.0 | 0.023 | 5.94 | 97.0 | 12.8 | 10.7 | 0.22 | 7.93 | 0.85 | 0.85 | 10 |
| 1 11 | 11.81 | 11.81 | 33.777 | 25.676 | 230.8 | 0.026 | 5.93 | 96.8 | 12.9 | 10.8 | 0.22 | 7.92 | 0.85 | 0.85 | 11 |
| 20 ISL | 11.27 | 11.27 | 33.792 | 25.787 | 220.4 | 0.046 | 5.08 | 82.0 | 16.3 | 14.7 | 0.20 | 6.36 | 1.33 | 2.00 | 20 |
| 1 26 | 10.81 | 10.81 | 33.813 | 25.886 | 211.1 | 0.059 | 4.37 | 69.8 | 19.1 | 17.9 | 0.18 | 4.90 | 1.59 | 2.6 | 26 |
| 30 ISL | 10.49 | 10.49 | 33.839 | 25.963 | 203.9 | 0.067 | 3.91 | 62.1 | 21.0 | 19.9 | 0.17* | 3.73 | 1.44 | 3.0 | 30 |
| 1 41 | 9.72 | 9.72 | 33.917 | 26.154 | 185.9 | 0.089 | 2.86 | 44.6 | 25.4 | 24.3 | 0.12 | 1.00 | 0.81 | 0.81 | 41 |
| 50 ISL | 9.46 | 9.45 | 33.960 | 26.231 | 178.8 | 0.105 | 2.66 | 41.3 | 27.0 | 25.6 | 0.06 | 0.74 | 0.56 | 0.56 | 50 |
| 1 56 | 9.39 | 9.38 | 33.979 | 26.257 | 176.4 | 0.116 | 2.53 | 39.2 | 27.7 | 25.9 | 0.03 | 0.56 | 0.46 | 0.46 | 56 |
| 1 70 | 9.28 | 9.27 | 33.997 | 26.290 | 173.6 | 0.140 | 2.41 | 37.3 | 29.4 | 26.4 | 0.01 | 0.10 | 0.30 | 0.30 | 71 |
| 75 ISL | 9.25 | 9.24 | 34.008 | 26.303 | 172.5 | 0.149 | 2.38 | 36.8 | 29.7 | 26.6 | 0.01 | 0.08 | 0.30 | 0.30 | 76 |
| 1 83 | 9.20 | 9.19 | 34.027 | 26.326 | 170.4 | 0.162 | 2.32 | 35.8 | 30.4 | 27.0 | 0.01 | 0.06 | 0.32 | 0.32 | 84 |
| 1 99 | 8.96 | 8.95 | 34.053 | 26.385 | 165.1 | 0.189 | 2.16 | 33.2 | 33.2 | 28.0 | 0.01 | 0.05 | 0.22 | 0.22 | 100 |
| 100 ISL | 8.95 | 8.94 | 34.054 | 26.387 | 164.9 | 0.191 | 2.15 | 33.0 | 33.3 | 28.1 | 0.01 | 0.05 | 0.22 | 0.22 | 101 |
| 1 113 | 8.85 | 8.84 | 34.067 | 26.413 | 162.7 | 0.212 | 2.03 | 31.1 | 34.5 | 28.8 | 0.01 | 0.03 | 0.23 | 0.23 | 114 |
| 125 ISL | 8.74 | 8.73 | 34.082 | 26.443 | 160.1 | 0.232 | 1.93 | 29.5 | 35.8 | 29.4 | 0.01 | 0.03 | 0.22 | 0.22 | 126 |
| 1 140 | 8.60 | 8.59 | 34.101 | 26.480 | 156.9 | 0.255 | 1.82 | 27.7 | 37.4 | 30.0 | 0.00 | 0.02 | 0.21 | 0.21 | 141 |
| 150 ISL | 8.54 | 8.52 | 34.110 | 26.496 | 155.5 | 0.271 | 1.76 | 26.8 | 38.4 | 30.3 | 0.00 | 0.03 | 0.20 | 0.20 | 151 |
| 1 170 | 8.42 | 8.40 | 34.125 | 26.526 | 153.0 | 0.302 | 1.64 | 24.9 | 40.5 | 30.9 | 0.00 | 0.06 | 0.19 | 0.19 | 171 |
| 1 199 | 8.14 | 8.12 | 34.147 | 26.586 | 147.7 | 0.345 | 1.42 | 21.4 | 44.3 | 32.1 | 0.00 | 0.08 | 0.17 | 0.17 | 201 |
| 200 ISL | 8.13 | 8.11 | 34.147 | 26.588 | 147.6 | 0.347 | 1.41 | 21.3 | 44.4 | 32.1 | 0.00 | 0.08 | 0.17 | 0.17 | 202 |
| 1 239 | 7.83 | 7.81 | 34.165 | 26.647 | 142.6 | 0.404 | 1.24 | 18.6 | 47.9 | 33.1 | 0.00 | 0.02 | 0.11 | 0.11 | 241 |
| 250 ISL | 7.75 | 7.73 | 34.170 | 26.663 | 141.2 | 0.419 | 1.19 | 17.8 | 49.0 | 33.4 | 0.00 | 0.02 | 0.11 | 0.11 | 252 |
| 1 289 | 7.46 | 7.43 | 34.188 | 26.719 | 136.4 | 0.473 | 0.98 | 14.5 | 54.1 | 34.3 | 0.01 | 0.02 | 0.13 | 0.13 | 291 |
| 300 ISL | 7.37 | 7.34 | 34.193 | 26.736 | 134.9 | 0.488 | 0.91 | 13.5 | 56.2 | 34.6 | 0.01 | | | | 302 |
| 1 340 | 7.04 | 7.01 | 34.213 | 26.798 | 129.5 | 0.541 | 0.65 | 9.6 | 64.3 | 35.3 | 0.00 | | | | 343 |
| 1 389 | 6.69 | 6.65 | 34.235 | 26.863 | 123.8 | 0.603 | 0.41 | 6.0 | 73.2 | 34.8 | 0.00 | | | | 392 |
| 400 ISL | 6.64 | 6.60 | 34.237 | 26.872 | 123.1 | 0.617 | 0.39 | 5.7 | 74.8 | 34.6 | 0.00 | | | | 403 |
| 1 428 | 6.54 | 6.50 | 34.242 | 26.889 | 121.8 | 0.651 | 0.35 | 5.1 | 78.5 | 34.0 | 0.00 | | | | 432 |
| 1 467 | 6.45 | 6.41 | 34.249 | 26.907 | 120.7 | 0.698 | 0.28 | 4.1 | 84.1 | 32.5 | 0.00 | | | | 471 |
| 1 497 | 6.41 | 6.36 | 34.252 | 26.915 | 120.3 | 0.734 | 0.14 | 2.0 | 90.8 | 29.2 | 0.00 | | | | 501 |
| 500 ISL | 6.40</td | | | | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 83 42

| LATITUDE 34 10.7 N | LONGITUDE 119 30.6 W | DAY/MO/YR 10/05/88 | MESSENGER 0342 UTC | BOTTOM | | WIND 250 | SPEED 15 KT | WAVES | WEATHER | BAROMETER | | DRY 13.6 C | WET 12.3 C | CLOUD AMT | TYPE |
|-----------------------|-------------------------|-----------------------|-----------------------|--------|-------|-------------|----------------|-------|---------|-----------|------|---------------|---------------|-----------|-------|
| | | | | 109 M | 109 M | | | | | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 1 0 ISL | 12.67 | 12.67 | 33.699 | 25.451 | 251.9 | 0.000 | 6.87 | 114.2 | 9.3 | 0.68 | 4.9 | 0.26 | 7.92 | 1.05 | 0 |
| 1 1 ISL | 12.67 | 12.67 | 33.699 | 25.451 | 251.9 | 0.003 | 6.87 | 114.2 | 9.3 | 0.68 | 4.9 | 0.26 | 7.92 | 1.05 | 1 |
| 1 10 ISL | 12.65 | 12.65 | 33.698 | 25.454 | 251.8 | 0.025 | 6.87 | 114.1 | 9.1 | 0.68 | 4.9 | 0.26 | 8.49 | 1.37 | 10 |
| 1 11 ISL | 12.65 | 12.65 | 33.698 | 25.454 | 251.9 | 0.028 | 6.87 | 114.1 | 9.1 | 0.68 | 4.9 | 0.26 | 8.51 | 1.40 | 11 |
| 1 20 ISL | 11.90 | 11.90 | 33.742 | 25.632 | 235.2 | 0.050 | 6.27 | 102.5 | 11.9 | 0.89 | 9.2 | 0.20 | 6.79 | 2.96 | 20 |
| 1 21 ISL | 11.79 | 11.79 | 33.748 | 25.657 | 232.8 | 0.052 | 6.16 | 100.5 | 12.4 | 0.92 | 9.9 | 0.19 | 6.47 | 3.11 | 21 |
| 1 30 ISL | 10.91 | 10.91 | 33.785 | 25.847 | 215.0 | 0.072 | 4.71 | 75.4 | 20.1 | 1.31 | 18.2 | 0.22 | 2.33 | 2.51 | 30 |
| 1 31 ISL | 10.83 | 10.83 | 33.789 | 25.864 | 213.3 | 0.074 | 4.56 | 72.9 | 20.9 | 1.35 | 19.0 | 0.23 | 1.91 | 2.39 | 31 |
| 1 40 ISL | 10.59 | 10.59 | 33.812 | 25.924 | 207.8 | 0.093 | 4.24 | 67.4 | 22.6 | 1.50 | 20.9 | 0.25 | 1.38 | 1.82 | 40 |
| 1 49 ISL | 9.97 | 9.96 | 33.858 | 26.067 | 194.4 | 0.111 | 2.94 | 46.1 | 25.1 | 1.67 | 23.4 | 0.02 | 0.58 | 1.25 | 49 |
| 1 59 ISL | 9.94 | 9.93 | 33.861 | 26.074 | 193.7 | 0.113 | 2.93 | 45.9 | 25.2 | 1.68 | 23.5 | 0.02 | 0.57 | 1.22 | 50 |
| 1 69 ISL | 9.78 | 9.77 | 33.888 | 26.122 | 189.4 | 0.130 | 2.86 | 44.7 | 25.8 | 1.72 | 24.0 | 0.01 | 0.49 | 1.01 | 59 |
| 1 75 ISL | 9.50 | 9.49 | 33.960 | 26.225 | 179.9 | 0.160 | 2.62 | 40.7 | 28.7 | 1.82 | 25.5 | 0.01 | 0.31 | 0.73 | 76 |
| 1 84 ISL | 9.35 | 9.34 | 34.001 | 26.281 | 174.7 | 0.176 | 2.47 | 38.3 | 30.4 | 1.89 | 26.4 | 0.00 | 0.24 | 0.59 | 85 |
| 1 100 ISL | 9.01 | 9.00 | 34.044 | 26.370 | 166.6 | 0.203 | 2.44 | 37.5 | 32.2 | 1.94 | 27.2 | 0.01 | 0.30 | 0.33 | 101 |
| 1 101 ISL | 8.99 | 8.98 | 34.047 | 26.375 | 166.1 | 0.205 | 2.44 | 37.5 | 32.3 | 1.94 | 27.2 | 0.01 | 0.30 | 0.31 | 102 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 83 51

| LATITUDE 33 52.8 N | LONGITUDE 120 8.2 W | DAY/MO/YR 09/05/88 | MESSENGER 2139 UTC | BOTTOM | | WIND 290 | SPEED 25 KT | WAVES 290 04 06 | WEATHER | BAROMETER | | DRY 15.6 C | WET 12.7 C | CLOUD AMT | TYPE 1/8 CI |
|-----------------------|------------------------|-----------------------|-----------------------|--------|-------|-------------|----------------|--------------------|---------|-----------|------|---------------|---------------|-----------|----------------|
| | | | | 115 M | 115 M | | | | | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 1 0 ISL | 12.07 | 12.07 | 33.711 | 25.575 | 240.0 | 0.000 | 6.04 | 99.1 | 10.4 | 7.7 | 0.20 | 6.74 | 2.71 | 0 | 0 |
| 1 9 ISL | 12.02 | 12.02 | 33.712 | 25.586 | 239.3 | 0.022 | 5.97 | 97.9 | 10.4 | 8.0 | 0.21 | 7.17 | 2.55 | 9 | 9 |
| 1 10 ISL | 11.97 | 11.97 | 33.714 | 25.597 | 238.2 | 0.024 | 5.93 | 97.1 | 10.6 | 8.2 | 0.21 | 7.08 | 2.46 | 10 | 10 |
| 1 19 ISL | 11.40 | 11.40 | 33.747 | 25.728 | 226.0 | 0.045 | 5.36 | 86.7 | 13.5 | 11.3 | 0.18 | 6.31 | 1.60 | 19 | 19 |
| 1 20 ISL | 11.35 | 11.35 | 33.751 | 25.741 | 224.8 | 0.047 | 5.27 | 85.2 | 14.1 | 11.8 | 0.18 | 6.01 | 1.58 | 20 | 20 |
| 1 29 ISL | 10.89 | 10.89 | 33.787 | 25.852 | 214.5 | 0.067 | 4.37 | 69.9 | 19.7 | 17.0 | 0.17 | 3.08 | 1.45 | 29 | 29 |
| 1 30 ISL | 10.81 | 10.81 | 33.792 | 25.870 | 212.7 | 0.069 | 4.27 | 68.2 | 20.2 | 17.5 | 0.17 | 2.82 | 1.39 | 30 | 30 |
| 1 40 ISL | 10.00 | 10.00 | 33.849 | 26.054 | 195.4 | 0.089 | 3.35 | 52.6 | 24.4 | 21.8 | 0.12 | 0.93 | 0.72 | 40 | 40 |
| 1 50 ISL | 9.45 | 9.44 | 33.924 | 26.204 | 181.3 | 0.108 | 2.86 | 44.4 | 28.9 | 24.9 | 0.08 | 0.26 | 0.49 | 50 | 50 |
| 1 59 ISL | 9.00 | 8.99 | 33.994 | 26.332 | 169.4 | 0.124 | 2.49 | 38.3 | 33.5 | 26.9 | 0.06 | 0.09 | 0.31 | 59 | 59 |
| 1 75 ISL | 8.57 | 8.56 | 34.060 | 26.451 | 158.3 | 0.150 | 2.16 | 32.9 | 38.5 | 29.1 | 0.03 | 0.03 | 0.20 | 76 | 76 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 83 55

| LATITUDE 33 44.6 N | LONGITUDE 120 24.7 W | DAY/MO/YR 09/05/88 | MESSENGER 1813 UTC | BOTTOM | | WIND 320 | SPEED 17 KT | WAVES 320 04 05 | WEATHER | BAROMETER | | DRY 15.0 C | WET 13.0 C | CLOUD AMT | TYPE 1/8 CI |
|-----------------------|-------------------------|-----------------------|-----------------------|--------|-------|-------------|----------------|--------------------|---------|-----------|------|---------------|---------------|-----------|----------------|
| | | | | 969 M | 969 M | | | | | P04 | N03 | N02 | CHL-A | PHAEAO | PRESS |
| 1 0 ISL | 12.48 | 12.48 | 33.691 | 25.481 | 249.0 | 0.000 | 6.69 | 110.7 | 11.2 | 0.81 | 7.2 | 0.25 | 9.70 | 1.96 | 0 |
| 1 1 ISL | 12.48 | 12.48 | 33.691 | 25.481 | 249.0 | 0.002 | 6.69 | 110.7 | 11.2 | 0.81 | 7.2 | 0.25 | 9.70 | 1.96 | 1 |
| 1 10 ISL | 12.35 | 12.35 | 33.698 | 25.512 | 246.3 | 0.025 | 6.52 | 107.6 | 11.8 | 0.86 | 8.2 | 0.25 | 7.86 | 1.63 | 10 |
| 1 12 ISL | 12.29 | 12.29 | 33.691 | 25.518 | 245.8 | 0.030 | 6.48 | 106.8 | 12.1 | 0.88 | 8.6 | 0.25 | 7.17 | 1.61 | 12 |
| 1 20 ISL | 11.90 | 11.90 | 33.702 | 25.601 | 238.1 | 0.049 | 5.93 | 97.0 | 14.0 | 1.04 | 11.3 | 0.24 | 4.24 | 2.75 | 20 |
| 1 22 ISL | 11.78 | 11.78 | 33.706 | 25.626 | 235.7 | 0.054 | 5.74 | 93.6 | 14.6 | 1.25 | 15.8 | 0.28 | 3.51 | 2.97 | 22 |
| 1 30 ISL | 11.27 | 11.27 | 33.718 | 25.730 | 226.1 | 0.072 | 4.75 | 76.6 | 17.3 | 1.25 | 15.8 | 0.28 | 1.63 | 1.86 | 30 |
| 1 31 ISL | 11.20 | 11.20 | 33.720 | 25.744 | 224.8 | 0.075 | 4.62 | 74.4 | 17.6 | 1.25 | 16.3 | 0.28 | 1.46 | 1.67 | 31 |
| 1 42 ISL | 10.53 | 10.53 | 33.741 | 25.879 | 212.1 | 0.099 | 3.79 | 60.2 | 19.8 | 1.54 | 19.4 | 0.15 | 0.56 | 0.88 | 42 |
| 1 50 ISL | 10.11 | 10.10 | 33.772 | 25.976 | 203.1 | 0.115 | 3.39 | 53.3 | 21.9 | 1.67 | 21.3 | 0.08 | 0.22 | 0.50 | 50 |
| 1 52 ISL | 10.03 | 10.02 | 33.779 | 25.995 | 201.3 | 0.119 | 3.33 | 52.3 | 22.3 | 1.69 | 21.7 | 0.07 | 0.17 | 0.45 | 52 |
| 1 62 ISL | 9.94 | 9.93 | 33.788 | 26.017 | 199.4 | 0.139 | 3.27 | 51.2 | 22.5 | 1.71 | 22.0 | 0.06 | 0.14 | A 0.54 A | 62 |
| 1 71 ISL | 9.56 | 9.55 | 33.866 | 26.141 | 187.7 | 0.157 | 2.98 | 46.3 | 26.1 | 1.83 | 23.8 | 0.05 | 0.09 | 0.58 | 72 |
| 1 75 ISL | 9.46 | 9.45 | 33.895 | 26.181 | 184.1 | 0.164 | 2.87 | 44.5 | 27.3 | 1.88 | 24.5 | 0.05 | 0.08 | 0.53 | 76 |
| 1 84 ISL | 9.30 | 9.29 | 33.946 | 26.247 | 178.0 | 0.180 | 2.68 | 41.4 | 29.4 | 1.97 | 25.6 | 0.04 | 0.06 | 0.41 | 85 |
| 1 99 ISL | 9.14 | 9.13 | 33.981 | 26.300 | 173.2 | 0.207 | 2.57 | 39.6 | 31.1 | 2.02 | 26.3 | 0.03 | 0.06 | 0.44 | 100 |
| 1 100 ISL | 9.12 | 9.11 | 33.983 | 26.305 | 172.8 | 0.208 | 2.56 | 39.4 | 31.2 | 2.02 | 26.4 | 0.03 | 0.06 | 0.43 | 101 |
| 1 120 ISL | 8.84 | 8.83 | 34.032 | 26.388 | 165.2 | 0.242 | 2.42 | 37.1 | 33.9 | 2.11 | 27.6 | 0.02 | 0.03 | 0.30 | 121 |
| 1 125 ISL | 8.81 | 8.80 | 34.042 | 26.400 | 164.1 | 0.250 | 2.36 | 36.1 | 34.6 | 2.14 | 27.9 | 0.02 | 0.03 | 0.30 | 126 |
| 1 145 ISL | 8.70 | 8.68 | 34.076 | 26.444 | 160.3 | 0.283 | 2.10 | 32.1 | 37.4 | 2.23 | 29.1 | 0.04 | 0.02 | 0.30 | 146 |
| 1 150 ISL | 8.64 | 8.64 | 34.082 | 26.455 | 159.4 | 0.291 | 2.07 | 31.6 | 37.9 | 2.24 | 29.3 | 0.04 | 0.02 | 0.29 | 151 |
| 1 175 ISL | 8.43 | 8.41 | 34.103 | 26.508 | 154.8 | 0.330 | 1.95 | 29.6 | 40.4 | 2.31 | 30.2 | 0.06 | 0.02 | 0.21 | 176 |
| 1 200 ISL | 8.24 | 8.22 | 34.124 | 26.553 | 150.9 | 0.368 | 1.72 | 26.0 | 43.2 | 2.41 | 31.1 | 0.12 | 0.01 | 0.20 | 202 |
| 1 204 ISL | 8.21 | 8.19 | 34.128 | 26.561 | 150.2 | 0.374 | 1.68 | 25.4 | 43.6 | 2.43 | 31.2 | 0.13 | 0.01 | 0.20 | 206 |
| 1 234 ISL | 8.01 | 7.99 | 34.162 | 26.618 | 145.3 | 0.419 | 1.47 | 22.1 | 46.7 | 2.53 | 32.5 | 0.10 | | 236 | |
| 1 250 ISL | 7.81 | 7.79 | 34.167 | 26. | | | | | | | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 83 60

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-----------|------|-------|-------|-------|
| 33 34.7 N | 120 45.4 W | 09/05/88 | 1429 UTC | 1584 M | 310 | 19 KT | 310 05 07 | 1 | 1021.1 MB | 14.7 C | 13.3 C | 2/8 | 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 | PSS 78 | 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 | 13.84 | 13.84 | 33.576 | 25.121 | 283.3 | 0.000 | 6.02 | 102.4 | 4.9 | 3.5 | 0.16 | 0.45 | 0.25 | 0.25 | 0 |
| 1 | 1 | 13.84 | 13.84 | 33.576 | 25.121 | 283.3 | 0.003 | 6.02 | 102.4 | 4.9 | 3.5 | 0.16 | 0.45 | 0.25 | 0.25 | 1 |
| 1 | 10 ISL | 13.83 | 13.83 | 33.577 | 25.124 | 283.3 | 0.028 | 6.00 | 102.1 | 4.8 | 3.5 | 0.15 | 0.39 | 0.17 | 0.17 | 10 |
| 1 | 11 | 13.83 | 13.83 | 33.577 | 25.124 | 283.3 | 0.031 | 6.00 | 102.1 | 4.8 | 3.5 | 0.15 | 0.38 | 0.16 | 0.16 | 11 |
| 1 | 20 | 13.84 | 13.84 | 33.578 | 25.123 | 283.7 | 0.057 | 6.02 | 102.4 | 4.6 | 3.5 | 0.15 | 0.40 | 0.23 | 0.23 | 20 |
| 1 | 30 ISL | 13.70 | 13.70 | 33.575 | 25.149 | 281.4 | 0.085 | 5.89 | 99.9 | 4.9 | 4.1 | 0.18 | 0.35 | 0.21 | 0.21 | 30 |
| 1 | 32 | 13.67 | 13.67 | 33.575 | 25.156 | 280.9 | 0.091 | 5.84 | 99.0 | 5.0 | 4.2 | 0.19 | 0.34 | 0.20 | 0.20 | 32 |
| 1 | 42 | 12.94 | 12.93 | 33.587 | 25.312 | 266.2 | 0.118 | 5.39 | 90.0 | 6.8 | 7.3 | 0.27 | 0.38 | 0.39 | 0.39 | 42 |
| 1 | 50 ISL | 12.10 | 12.09 | 33.600 | 25.485 | 249.9 | 0.139 | 4.64 | 76.1 | 9.8 | 11.8 | 0.28 | 0.41 | 0.35 | 0.35 | 50 |
| 1 | 52 | 11.85 | 11.84 | 33.608 | 25.538 | 244.9 | 0.143 | 4.42 | 72.1 | 10.8 | 13.1 | 0.28 | 0.42 | 0.32 | 0.32 | 52 |
| 1 | 62 | 10.20 | 10.19 | 33.723 | 25.923 | 208.4 | 0.166 | 3.41 | 53.7 | 18.5 | 20.7 | 0.05 | 0.13 | 0.23 | 0.23 | 62 |
| 1 | 72 | 9.70 | 9.69 | 33.785 | 26.055 | 196.0 | 0.186 | 3.18 | 49.6 | 21.8 | 22.9 | 0.04 | 0.04 | 0.14 | 0.14 | 73 |
| 1 | 75 ISL | 9.62 | 9.61 | 33.797 | 26.078 | 193.9 | 0.192 | 3.14 | 48.9 | 22.3 | 23.3 | 0.04 | 0.04 | 0.14 | 0.14 | 76 |
| 1 | 86 | 9.41 | 9.40 | 33.831 | 26.139 | 188.3 | 0.213 | 3.07 | 47.6 | 23.7 | 24.2 | 0.03 | 0.02 | 0.15 | 0.15 | 87 |
| 1 | 100 ISL | 9.07 | 9.06 | 33.889 | 26.239 | 179.0 | 0.239 | 3.00 | 46.1 | 26.4 | 25.3 | 0.03 | 0.02 | 0.16 | 0.16 | 101 |
| 1 | 101 | 9.05 | 9.04 | 33.893 | 26.245 | 178.4 | 0.241 | 2.99 | 46.0 | 26.6 | 25.4 | 0.03 | 0.02 | 0.16 | 0.16 | 102 |
| 1 | 121 | 8.79 | 8.78 | 33.954 | 26.334 | 170.3 | 0.276 | 2.82 | 43.1 | 30.0 | 26.7 | 0.04 | 0.01 | 0.24 | 0.24 | 122 |
| 1 | 125 ISL | 8.75 | 8.74 | 33.961 | 26.346 | 169.2 | 0.282 | 2.80 | 42.8 | 30.5 | 26.9 | 0.04 | 0.01 | 0.23 | 0.23 | 126 |
| 1 | 146 | 8.54 | 8.52 | 33.991 | 26.403 | 164.3 | 0.317 | 2.70 | 41.0 | 32.7 | 27.6 | 0.04 | 0.01 | 0.15 | 0.15 | 147 |
| 1 | 150 ISL | 8.49 | 8.47 | 33.998 | 26.416 | 163.1 | 0.324 | 2.67 | 40.5 | 33.2 | 27.8 | 0.04 | 0.01 | 0.15 | 0.15 | 151 |
| 1 | 176 | 8.12 | 8.10 | 34.046 | 26.510 | 154.5 | 0.365 | 2.44 | 36.8 | 37.5 | 29.3 | 0.04 | 0.00 | 0.19 | 0.19 | 177 |
| 1 | 200 ISL | 7.78 | 7.76 | 34.084 | 26.590 | 147.2 | 0.401 | 2.12 | 31.7 | 42.7 | 31.2 | 0.04 | 0.01 | 0.17 | 0.17 | 202 |
| 1 | 205 | 7.72 | 7.70 | 34.090 | 26.604 | 146.0 | 0.409 | 2.06 | 30.7 | 43.8 | 31.6 | 0.04 | 0.01 | 0.16 | 0.16 | 207 |
| 1 | 236 | 7.46 | 7.44 | 34.106 | 26.654 | 141.7 | 0.453 | 1.86 | 27.6 | 47.9 | 33.0 | 0.03 | 0.00 | 0.23 | 0.23 | 238 |
| 1 | 250 ISL | 7.37 | 7.35 | 34.126 | 26.682 | 139.1 | 0.473 | 1.66 | 24.6 | 50.0 | 33.7 | 0.02 | 0.00 | 0.22 | 0.22 | 252 |
| 1 | 273 | 7.24 | 7.21 | 34.161 | 26.728 | 135.1 | 0.505 | 1.33 | 19.6 | 53.5 | 34.9 | 0.01 | 0.00 | 0.25 | 0.25 | 275 |
| 1 | 300 ISL | 7.05 | 7.02 | 34.180 | 26.770 | 131.5 | 0.541 | 1.11 | 16.3 | 57.4 | 36.0 | 0.01 | 0.00 | 0.25 | 0.25 | 302 |
| 1 | 329 | 6.85 | 6.82 | 34.195 | 26.809 | 128.1 | 0.578 | 0.96 | 14.0 | 61.2 | 37.0 | 0.01 | 0.00 | 0.25 | 0.25 | 332 |
| 1 | 387 | 6.62 | 6.58 | 34.246 | 26.881 | 122.0 | 0.651 | 0.67 | 9.8 | 66.8 | 38.5 | 0.00 | 0.00 | 0.25 | 0.25 | 390 |
| 1 | 400 ISL | 6.53 | 6.49 | 34.253 | 26.899 | 120.5 | 0.667 | 0.62 | 9.0 | 68.7 | 38.9 | 0.00 | 0.00 | 0.25 | 0.25 | 403 |
| 1 | 450 | 6.14 | 6.10 | 34.279 | 26.970 | 114.1 | 0.725 | 0.46 | 6.6 | 76.1 | 40.5 | 0.00 | 0.00 | 0.25 | 0.25 | 454 |
| 1 | 500 ISL | 5.86 | 5.82 | 34.315 | 27.035 | 108.4 | 0.781 | 0.35 | 5.0 | 82.0 | 41.3 | 0.00 | 0.00 | 0.25 | 0.25 | 504 |
| 1 | 518 | 5.76 | 5.72 | 34.328 | 27.057 | 106.4 | 0.800 | 0.31 | 4.4 | 84.1 | 41.6 | 0.00 | 0.00 | 0.25 | 0.25 | 518 |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 83 70

| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | BOTTOM | WIND | SPEED | WAVES | WEATHER | BAROMETER | DRY | WET | CLOUD AMT | TYPE | | | |
|-----------|------------|-----------|-----------|----------|--------|-------|-----------|---------|-----------|--------|--------|-----------|------|-------|-------|-------|
| 33 14.6 N | 121 26.4 W | 09/05/88 | 0859 UTC | 3733 M | 300 | 17 KT | 300 17 00 | 1 | 1021.2 MB | 14.8 C | 12.8 C | 2/8 | 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 | PSS 78 | 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 | 13.97 | 13.97 | 33.444 | 24.992 | 295.5 | 0.000 | 5.98 | 102.0 | 3.0 | 2.0 | 0.22 | 0.44 | 0.10 | 0.10 | 0 |
| 1 | 1 | 13.97 | 13.97 | 33.444 | 24.992 | 295.6 | 0.003 | 5.98 | 102.0 | 3.0 | 2.0 | 0.22 | 0.44 | 0.10 | 0.10 | 1 |
| 1 | 10 ISL | 13.96 | 13.96 | 33.444 | 24.994 | 295.6 | 0.030 | 6.01 | 102.4 | 2.9 | 2.2 | 0.22 | 0.43 | 0.11 | 0.11 | 11 |
| 1 | 11 | 13.96 | 13.96 | 33.445 | 24.995 | 295.5 | 0.033 | 6.01 | 102.4 | 2.9 | 2.2 | 0.22 | 0.43 | 0.11 | 0.11 | 11 |
| 1 | 20 ISL | 13.92 | 13.92 | 33.446 | 25.004 | 294.9 | 0.059 | 6.00 | 102.2 | 2.9 | 2.4 | 0.23 | 0.41 | 0.11 | 0.11 | 20 |
| 1 | 21 | 13.91 | 13.91 | 33.445 | 25.005 | 294.8 | 0.062 | 6.00 | 102.2 | 2.9 | 2.5 | 0.23 | 0.41 | 0.11 | 0.11 | 21 |
| 1 | 30 ISL | 13.73 | 13.73 | 33.454 | 25.050 | 290.9 | 0.088 | 6.00 | 101.8 | 3.6 | 3.6 | 0.26 | 0.34 | 0.14 | 0.14 | 30 |
| 1 | 31 | 13.70 | 13.70 | 33.456 | 25.057 | 290.2 | 0.091 | 6.00 | 101.7 | 3.7 | 3.7 | 0.26 | 0.34 | 0.15 | 0.15 | 31 |
| 1 | 41 | 13.18 | 13.17 | 33.483 | 25.184 | 278.4 | 0.120 | 5.94 | 99.6 | 5.1 | 5.0 | 0.28 | 0.46 | 0.22 | 0.22 | 41 |
| 1 | 50 ISL | 12.92 | 12.92 | 33.530 | 25.270 | 270.4 | 0.144 | 5.77 | 96.3 | 7.1 | 6.6 | 0.29 | 0.57 | 0.25 | 0.25 | 50 |
| 1 | 51 | 12.91 | 12.90 | 33.534 | 25.277 | 269.8 | 0.147 | 5.74 | 95.8 | 7.3 | 6.8 | 0.29 | 0.58 | 0.25 | 0.25 | 51 |
| 1 | 61 | 12.53 | 12.52 | 33.514 | 25.336 | 264.4 | 0.174 | 5.38 | 89.0 | 8.1 | 8.2 | 0.29 | 0.54 | 0.31 | 0.31 | 61 |
| 1 | 71 | 11.56 | 11.55 | 33.567 | 25.560 | 243.2 | 0.199 | 4.50 | 73.0 | 12.6 | 13.6 | 0.21 | 0.32 | 0.28 | 0.28 | 72 |
| 1 | 75 ISL | 11.10 | 11.09 | 33.597 | 25.667 | 233.1 | 0.209 | 4.18 | 67.1 | 14.7 | 15.9 | 0.16 | 0.32 | 0.26 | 0.26 | 76 |
| 1 | 85 | 10.09 | 10.08 | 33.681 | 25.909 | 210.2 | 0.231 | 3.54 | 55.6 | 19.6 | 20.6 | 0.06 | 0.33 | 0.22 | 0.22 | 86 |
| 1 | 100 ISL | 9.58 | 9.57 | 33.788 | 26.078 | 194.4 | 0.261 | 3.24 | 50.4 | 23.8 | 23.0 | 0.02 | 0.05 | 0.25 | 0.25 | 101 |
| 1 | 101 | 9.57 | 9.56 | 33.794 | 26.084 | 193.8 | 0.263 | 3.23 | 50.2 | 24.0 | 23.1 | 0.02 | 0.03 | 0.25 | 0.25 | 102 |
| 1 | 119 | 9.07 | 9.06 | 33.887 | 26.238 | 179.5 | 0.297 | 2.99 | 46.0 | 28.1 | 25.5 | 0.01 | 0.02 | 0.21 | 0.21 | 120 |
| 1 | 125 ISL | 8.95 | 8.94 | 33.909 | 26.274 | 176.1 | 0.307 | 2.96 | 45.4 | 29.1 | 26.0 | 0.01 | 0.02 | 0.19 | 0.19 | 126 |
| 1 | 144 | 8.64 | 8.62 | 33.966 | 26.367 | 167.6 | 0.340 | 2.88 | 43.9 | 32.0 | 27.0 | 0.01 | 0.01 | 0.13 | 0.13 | 145 |
| 1 | 150 ISL | 8.56 | 8.54 | 33.984 | 26.394 | 165.2 | 0.350 | 2.82 | 42.9 | 33.0 | 27.4 | 0.01 | 0.01 | 0.12 | 0.12 | 151 |
| 1 | 174 | 8.26 | 8.24 | 34.042 | 26.486 | 156.8 | 0.389 | 2.55 | 38.5 | 37.3 | 29.0 | 0.01 | 0.00 | 0.09 | 0.09 | 175 |
| 1 | 200 ISL | 7.83 | 7.81 | 34.072 | 26.573 | 148.8 | 0.428 | 2.28 | 34.1 | 42.5 | 30.7 | 0.00 | 0.00 | 0.07 | 0.07 | 202 |
| 1 | 204 | 7.76 | 7.74 | 34.074 | 26.585 | 147.8 | 0.434 | 2.24 | 33.5 | 43.3 | 31.0 | | | | | |

RV DAVID STARR JORDAN

CALCOFI CRUISE 8805

STATION 93 35

LATITUDE LONGITUDE DAY/MO/YR MESSENGER

| PRIMARY PRODUCTIVITY CASTS | | | | | | | | | | | | | | | | | |
|----------------------------|------------|-----------|-----------|--------|-----------------|------------|----------|----------|---------------|----------|------------|-------|-------|------------------|------|------|------|
| CALCOFI CRUISE 8805 | | | | | | | | | | | | | | | | | |
| LATITUDE | LONGITUDE | DAY/MO/YR | MESSENGER | SECCHI | DEPTH | INCUBATION | TIME | LAN | CIVIL | TWILIGHT | INTEGRATED | VALUE | | | | | |
| 30 59.4 N | 121 19.4 W | 2/ 5/88 | 1909 UTC | 28 M | 1205 - 1913 PST | 1202 PST | 1202 PST | 1913 PST | 143.1 MG C/M2 | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | DISS | O2 | OXY | SI03 | P04 | N03 | N02 | CHL | PHAEO | LIGHT | UPTAKE (MG C/M3) | | | |
| M | DEG C | PSS 78 | THETA | ML/L | PCT | UM/L | UM/L | UM/L | UM/L | UM/L | UG/L | UG/L | PCT | 1 | 2 | MEAN | DARK |
| 1 | 15.07 | 33.272 | 24.625 | 5.93 | 103.3 | 2.4 | 0.44 | 0.0 | 0.00 | 0.10 | 0.02 | 99. | 0.41 | 0.41 | 0.41 | 0.33 | |
| 21 | 15.05 | 33.274 | 24.632 | 5.92 | 103.0 | 2.3 | 0.41 | 0.0 | 0.00 | 0.10 | 0.02 | 35. | 1.8 | 1.7 | 1.7 | 0.34 | |
| 36 | 15.05 | 33.276 | 24.634 | 5.93 | 103.2 | 2.3 | 0.38 | 0.0 | 0.00 | 0.10 | 0.02 | 15. | 2.2 | 2.1 | 2.1 | 0.36 | |
| 56 | 15.01 | 33.271 | 24.640 | 5.94 | 103.3 | 2.3 | 0.34 | 0.0 | 0.00 | 0.11 | 0.02 | 5.0 | 1.2 | 1.3 | 1.3 | 0.34 | |
| 77 | 13.92 | 33.200 | 24.816 | 6.04 | 102.7 | 2.1 | 0.32 | 0.0 | 0.00 | 0.41 | 0.29 | 1.5 | 1.6 | 1.8 | 1.7 | 0.38 | |
| 108 | 13.46 | 33.255 | 24.953 | 5.81 | 97.9 | 2.6 | 0.40 | 1.6 | 0.39 | 0.22 | 0.16 | 0.25 | 0.06 | 0.09 | 0.08 | 0.27 | |
| 124 | 12.15 | 33.301 | 25.245 | 5.33 | 87.4 | 6.0 | 0.56 | 6.6 | 0.02 | 0.08 | 0.07 | | | | | | |
| 145 | 10.67 | 33.403 | 25.594 | 4.68 | 74.4 | 11.7 | 0.87 | 13.2 | 0.01 | 0.02 | 0.04 | | | | | | |
| 176 | 9.72 | 33.724 | 26.006 | 3.99 | 62.2 | 19.4 | 1.15 | 19.3 | 0.00 | 0.01 | 0.03 | | | | | | |
| 208 | 9.04 | 33.873 | 26.233 | 3.58 | 55.0 | 25.8 | 1.41 | 23.1 | 0.00 | 0.00 | 0.02 | | | | | | |

Secchi Disk Observations

CalCOFI Cruise 8805

| Line | Sta. | Day | Mo | Local | Secchi | Clouds | | |
|------|------|-----|----|------------------|--------------|---------|----------|-----|
| | | | | Time (+8:PST) | Depth (m) | Weather | Type/Amt | |
| 77 | 49 | 11 | 5 | 1405 | 9 | - | - | - |
| 77 | 51 | 11 | 5 | 1146 | 11 | 0 | - | 0 |
| 77 | 55 | 11 | 5 | 0914 | 17 | 0 | - | 0 |
| 77 | 60 | 11 | 5 | 0540 | 15 | 0 | - | 0 |
| 80 | 51 | 10 | 5 | 0640 | 7 | 0 | - | 0 |
| 80 | 55 | 10 | 5 | 1018 | 9 | 0 | - | 0 |
| 80 | 60 | 10 | 5 | 1230 | 14 | 0 | - | 0 |
| 83 | 51 | 9 | 5 | 1330 | 6 | 1 | CI | 1/8 |
| 83 | 55 | 9 | 5 | 1040 | 8 | 1 | CI | 1/8 |
| 83 | 60 | 9 | 5 | 0655 | 14 | 1 | cu | 2/8 |
| 83 | 90 | 8 | 5 | 1339 | 14 | 1 | cu | 1/8 |
| 85 | 90 | 8 | 5 | 1104 | 26 | 1 | sc | 2/8 |
| 87 | 33 | 6 | 5 | 0854 | 6 | 1 | cu | 2/8 |
| 87 | 34 | 6 | 5 | 1010 | 9 | 1 | cu | 2/8 |
| 87 | 35 | 6 | 5 | 1103 | 9 | 1 | cu | 2/8 |
| 87 | 37.5 | 6 | 5 | 1428 | 9 | 1 | cu | 1/8 |
| 87 | 39.5 | 6 | 5 | 1627 | 9 | 1 | cu | 1/8 |
| 87 | 55 | 7 | 5 | 0610 | 14 | 1 | cu | 7/8 |
| 87 | 60 | 7 | 5 | 1406 | 16 | 1 | cu | 5/8 |
| 87 | 90 | 8 | 5 | 0708 | 22 | 1 | sc | 7/8 |
| 88 | 57 | 7 | 5 | 1057 | 20 | 1 | cu | 7/8 |
| 90 | 28 | 5 | 5 | 1036 | 8 | 1 | cu | 3/8 |
| 90 | 30 | 5 | 5 | 0728 | 15 | 1 | sc | 7/8 |
| 90 | 30 | 5 | 5 | 0941 | 15 | 1 | sc | 7/8 |
| 90 | 33 | 5 | 5 | 0601 | 14 | 1 | cu | 5/8 |
| 90 | 53 | 4 | 5 | 1132 | 16 | 1 | cc | 6/8 |
| 90 | 80 | 3 | 5 | 1308 | 20 | 1 | CI | 1/8 |
| 90 | 90 | 3 | 5 | 1008 | 26 | 1 | cu | 2/8 |
| 93.4 | 26.5 | 28 | 4 | 1315 | 11 | 1 | cu | 3/8 |
| 93.4 | 26.7 | 28 | 4 | 1354 | 15 | 1 | cu | 3/8 |
| 93 | 28 | 28 | 4 | 1548 | 20 | 1 | cu | 3/8 |
| 93 | 50 | 29 | 4 | 1049 | 26 | 1 | CI | 1/8 |
| 93 | 55 | 29 | 4 | 1358 | 21 | 1 | CI | 1/8 |
| 93 | 60 | 29 | 4 | 1658 | 12 | 1 | CI | 6/8 |
| 93 | 86 | 2 | 5 | 1052 | 28 | 0 | - | 0 |
| 93 | 90 | 2 | 5 | 1345 | 23 | 1 | AC | 1/8 |

CalCOFI Cruise 8805

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

| Line | Sta. | Position | Date Mo/Day | Time(UTC) | | Water Volume Strained (m) | Max. Tow Depth (m) | Volume per 1000 m Strained | | |
|------|------|----------|----------------|-----------|------|------------------------------|-----------------------|-------------------------------|------------|------|
| | | | | Start | End | | | Total (cm) | Small (cm) | |
| 77 | 49 | 35 05.0N | 120 46.9 W | 5/11 | 2245 | 2253 | 157 | 77 | 146 | 146 |
| 77 | 51 | 35 01.2N | 120 55.2W | 5/11 | 2046 | 2108 | 380 | 211 | 124 | 124 |
| 77 | 55 | 34 53.1N | 121 11.9W | 5/11 | 1738 | 1800 | 371 | 219 | 127 | 127 |
| 77 | 60 | 34 43.3N | 121 32.9 W | 5/11 | 1403 | 1425 | 378 | 214 | 143 | 143 |
| 77 | 70 | 34 23.2N | 122 14.8W | 5/11 | 0829 | 0851 | 390 | 212 | 200 | 182 |
| 80 | 51 | 34 27.0N | 120 31.4W | 5/10 | 1457 | 1505 | 134 | 70 | 9687 | 358 |
| 80 | 55 | 34 19.1N | 120 48.0W | 5/10 | 1745 | 1807 | 401 | 218 | 334 | 334 |
| 80 | 60 | 34 08.6N | 121 09.2W | 5/10 | 2126 | 2148 | 395 | 214 | 207 | 207 |
| 80 | 70 | 33 49.1N | 121 50.5 W | 5/11 | 0247 | 0309 | 405 | 209 | 128 | 114 |
| 82 | 47 | 34 16.5N | 120 01.2W | 5/10 | 1108 | 1130 | 399 | 206 | 321 | 321 |
| 83 | 40.6 | 34 13.5N | 119 24.7W | 5/10 | 0629 | 0633 | 66 | 29 | 1939 | 1939 |
| 83 | 42 | 34 10.7N | 119 30.6W | 5/10 | 0437 | 0447 | 186 | 97 | 442 | 442 |
| 83 | 51 | 33 52.8N | 120 08.2W | 5/09 | 2211 | 2222 | 203 | 105 | 79 | 79 |
| 83 | 55 | 33 44.6N | 120 24.7 W | 5/09 | 1917 | 1939 | 394 | 212 | 137 | 137 |
| 83 | 60 | 33 34.7N | 120 45.4W | 5/09 | 1515 | 1537 | 394 | 213 | 147 | 147 |
| 83 | 70 | 33 14.6N | 121 26.4W | 5/09 | 0938 | 1000 | 406 | 207 | 207 | 207 |
| 83 | 80 | 32 54.7N | 122 07.7W | 5/09 | 0410 | 0432 | 416 | 212 | 221 | 221 |
| 83 | 90 | 32 34.5N | 122 48.8W | 5/08 | 2231 | 2253 | 411 | 208 | 268 | 268 |
| 87 | 33 | 33 53.4N | 118 29.4W | 5/06 | 1736 | 1742 | 108 | 50 | 222 | 222 |
| 87 | 35 | 33 49.4N | 118 37.7W | 5/06 | 2042 | 2104 | 388 | 210 | 131 | 131 |
| 87 | 39.5 | 33 40.4N | 118 56.3 W | 5/07 | 0217 | 0239 | 406 | 216 | 143 | 143 |
| 87 | 45 | 33 29.4N | 119 19.1W | 5/07 | 0726 | 0748 | 402 | 213 | 179 | 114 |
| 87 | 50 | 33 19.3N | 119 39.4W | 5/07 | 1055 | 1103 | 143 | 70 | 203 | 203 |
| 87 | 55 | 33 09.5N | 120 00.4W | 5/07 | 1428 | 1450 | 394 | 213 | 61 | 61 |
| 87 | 60 | 32 59.2N | 120 20.9W | 5/07 | 2313 | 2335 | 399 | 210 | 45 | 45 |
| 87 | 70 | 32 39.4N | 121 02.0W | 5/08 | 0513 | 0535 | 410 | 211 | 88 | 88 |
| 87 | 80 | 32 19.8N | 121 43.0W | 5/08 | 1037 | 1059 | 408 | 209 | 120 | 120 |
| 87 | 90 | 31 59.4N | 122 23.7W | 5/08 | 1617 | 1639 | 426 | 210 | 129 | 129 |
| 90 | 28 | 33 29.1N | 117 46.1W | 5/05 | 1933 | 1941 | 156 | 68 | 275 | 275 |
| 90 | 30 | 33 25.1N | 117 54.3W | 5/05 | 1700 | 1722 | 461 | 206 | 96 | 96 |
| 90 | 35 | 33 15.1N | 118 16.0W | 5/05 | 1123 | 1145 | 420 | 207 | 546 | 224 |
| 90 | 37 | 33 11.1N | 118 23.2W | 5/05 | 0848 | 0910 | 387 | 213 | 219 | 188 |
| 90 | 45 | 32 55.1N | 118 56.2W | 5/04 | 0336 | 0358 | 453 | 203 | 119 | 119 |
| 90 | 53 | 32 39.1N | 119 29.1W | 5/04 | 2145 | 2207 | 410 | 212 | 29 | 29 |
| 90 | 60 | 32 25.1N | 119 57.6W | 5/04 | 1508 | 1530 | 413 | 218 | 29 | 29 |
| 90 | 70 | 32 05.0N | 120 38.4W | 5/04 | 0628 | 0650 | 429 | 215 | 40 | 40 |
| 90 | 80 | 31 45.0N | 121 18.7W | 5/04 | 0005 | 0027 | 429 | 215 | 23 | 23 |
| 90 | 90 | 31 24.9N | 121 59.5W | 5/03 | 1734 | 1756 | 426 | 207 | 5 | 5 |
| 90 | 100 | 31 05.2N | 122 39.0W | 5/03 | 1114 | 1136 | 418 | 211 | 43 | 43 |
| 93 | 26.7 | 32 57.3N | 117 18.4W | 4/28 | 2255 | 2307 | 244 | 110 | 304 | 304 |
| 93 | 28 | 32 54.6N | 117 23.8W | 4/29 | 0100 | 0122 | 417 | 213 | 84 | 84 |
| 93 | 30 | 32 50.8N | 117 31.9W | 4/29 | 0335 | 0357 | 415 | 211 | 41 | 41 |
| 93 | 35 | 32 40.7N | 117 52.1W | 4/29 | 0746 | 0808 | 407 | 207 | 42 | 42 |
| 93 | 40 | 32 31.0N | 118 12.6W | 4/29 | 1104 | 1126 | 393 | 209 | 51 | 51 |
| 93 | 45 | 32 20.8N | 118 33.2W | 4/29 | 1438 | 1500 | 390 | 215 | 95 | 64 |
| 93 | 50 | 32 10.9N | 118 53.6W | 4/29 | 1816 | 1838 | 390 | 211 | 82 | 82 |
| 93 | 55 | 32 00.5N | 119 14.2W | 4/29 | 2227 | 2249 | 508 | 196 | 14 | 14 |
| 93 | 60 | 31 50.9N | 119 34.3W | 4/29 | 0216 | 0238 | 412 | 217 | 49 | 49 |
| 93 | 70 | 31 30.9N | 120 14.7W | 4/30 | 0929 | 0951 | 412 | 218 | 36 | 36 |
| 93 | 80 | 31 10.7N | 120 55.1W | 5/02 | 1550 | 1613 | 457 | 216 | 20 | 20 |
| 93 | 90 | 30 51.5N | 121 35.3W | 5/02 | 2210 | 2232 | 440 | 212 | 14 | 14 |
| 93 | 100 | 30 30.8N | 122 15.5W | 5/03 | 0416 | 0438 | 440 | 214 | 14 | 14 |