UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

CalCOFI Cruise 8402-3
7 February - 30 March 1984

SIO Reference 84-23
20 August 1984

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Approved for distribution:

W. A. Nierenberg

W. A. Nierenberg, Director

CONTENTS

INTRODUCTION

The data in this report were collected during Cruise 8402-3* of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV *David Starr Jordan* of the National Marine Fisheries Service and the RV *New Horizon* of the Scripps Institution of Oceanography. In addition to routine station sampling, six 24-hour stations were occupied to make several Nansen casts and net tows in order to assess within-station hydrographic, chemical and biological variability. Primary productivity casts were taken daily near local noontime.

The *Jordan* occupied a closely-spaced station pattern (Fig. 1) in order to estimate the spawning biomass of northern anchovy stock from egg and larval counts.

The data were collected and processed by personnel of the Physical and Chemical Oceanographic Data Facility (PACODF), Marine Life Research Group (MLRG), the Southwest Fisheries Center, National Marine Fisheries Service (NMFS), and the Instituto Nacional de Pesca (INP). Many volunteers also assisted in the collection of data at sea.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts consisted of 20 or fewer Nansen bottles lowered to a maximum sampling depth of 600 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 12 depths.

Paired protected reversing thermometers were used to determine temperatures which are recorded to hundredths of a degree Celsius. Sampling bottles used below a depth of 100 meters were equipped with unprotected thermometers for determination of the depth of sampling.

Salinity samples were analyzed at sea using inductive-type salinometers. Salinometers were standardized with sub-standard seawater. The sub-standard water was prepared from filtered seawater collected in 30-liter Niskin bottles from a depth of 400 m, gently evaporated to increase the salinity to near 35‰. Periodic checks on the concentration of the substandard were made by comparison with Wormley Standard Seawater batch P-90. The salinity values are reported to three decimal places.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971).

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

Chlorophyll was measured with a fluorometric technique (Yentsch and Menzel, 1963; Holm-Hansen *et al.*, 1965). Subsamples (65 or 140 ml) were drawn from the Nansen bottles and filtered onto GF/C filters. The filters were placed in scintillation vials containing 10 ml of 90% acetone and the pigments were extracted in the dark in a refrigerator for a period between one and four days. The samples were then brought to room temperature and the fluorescence of the sample was determined before and after acidification with a Turner 111 fluorometer. The potential biases in this technique are discussed in Venrick and Hayward (1984).

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.

Primary Productivity Casts

Primary production was estimated from ^{14}C uptake using a simulated *in situ* technique. Light penetration was estimated from the Secchi depth (assuming that the 1% light level is three times the

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

Secchi depth). Six depths, corresponding to predetermined levels of light penetration, were sampled with 5 l Niskin bottles. Triplicate subsamples were drawn from each depth into 125 ml polycarbonate incubation bottles which were innoculated with 10 μci of ^{14}C as $NaHCO_3$. Two light and one dark (control) bottle were then incubated approximately from local apparent noon to civil twilight in sea water cooled incubators with neutral density screens which simulate the *in situ* light levels. At the end of the incubation, the samples were filtered onto HA milipore filters and placed in scintillation vials. One-half ml of 10% HCl was added to each sample, which 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 S.I.O. 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 the 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).

Conductivity/Temperature/Depth/Oxygen Recorder (CTDO) Data

CTDO data were collected on some lines occupied by the *David Starr Jordan*, as shown by the station position map (Fig. 1). The CTDO data are not included in this report.

TABULATED DATA

The tabulated data in this report have substantial changes in both content and appearance from data tabulations that have appeared in earlier CalCOFI data reports. The changes were noted in the 8401 cruise data report (SIO Ref. 84-18) and are repeated below:

1. Observed data and interpolated standard level data have been interspersed and are presented together in depth sequence.

2. Salinities have been calculated from the algorithms for the Practical Salinity Scale, 1978 (PSS78) as recommended by the Joint Panel on Oceanographic Tables and Standards (Lewis, 1980; UNESCO, 1981). Between 34 and 36 salinity, the differences between the new PSS78 and old UNESCO66 salinity scales are .001 or less. At practical salinity = 30, the new salinity is .005 higher than the old salinity scale. Parts per thousand or the symbol ‰ is not used for PSS78 salinities, so the new practical salinities are 1000 times larger than salinities based on previous scales.

3. Potential temperature has been added to the tabulation. The difference between *in situ* temperature and potential temperature is only .05° at 500 m, so potential temperature is not important for the shallow casts presented in this report. However, potential temperature is of interest for deeper casts that are typically taken on expeditions and occasionally on CalCOFI cruises, so it will be reported routinely. Potential temperature is calculated from the expressions given by Fofonoff (1977), based upon Bryden's (1973) results.

4. Density related parameters are calculated from the International Equation of State of Seawater 1980 (EOS80) algorithms published by Millero, Chen, Bradshaw and Schleicher (1980) and UNESCO (1981). Sigma-theta in this report is about .03 lower than the sigma-t that appeared in earlier reports. EOS80 is in terms of true density, while the older equations were in terms of specific gravity, treated as if they were density. That accounts for most of the difference between new and old equation of state densities. The newer experimental measurements on the density of seawater also show small differences that are variable over the temperature-salinity range of seawater. Sigma-theta is calculated from potential temperature instead of *in situ* temperature. The differences in sigmas would have been

somewhat greater if *in situ* temperatures had been used to calculate sigma in the present data report.

Dynamic heights in this report are within one dynamic millimeter of the values calculated in previous CalCOFI reports. The different equations of state have little effect on the dynamic height calculation in the top 600 meters.

Specific volume anomaly (with pressure terms) is given in this data report. Previously, thermosteric anomaly (without pressure terms) was reported, although the dynamic heights were calculated from specific volume anomaly.

5. Pressure has been added to the data listing. Although depth remains as the primary key to the data for historical reasons and to facilitate comparisons with past cruises, pressure is required for the EOS80 density calculations.

6. Percent oxygen saturation has been added. The values are calculated from the equations of Weiss (1970) and UNESCO (1973). The solubility of oxygen varies primarily with temperature and secondarily with salinity. For convenience, an oxygen saturation is also given for levels where temperature or salinity is missing. Those values are based upon interpolated temperature or salinity and should be used with caution.

7. Chlorophylll-*a* and phaeopigments have been incorporated with the hydrographic and chemical data instead of being reported separately.

8. Heading information has been expanded to include more of the weather observations; most of the observations have been de-coded and are self-explanatory. Weather conditions are coded using WMO code 4501. Bottom depths, determined acoustically, have been corrected using Matthews (1939) tables.

9. CalCOFI line and station numbers are separated by a few blank spaces in order to leave room for finer resolution of line and station numbers when appropriate. Most CalCOFI cruises occupy stations on cardinal lines and on ordinal lines with 1/3 and 2/3 spacing between cardinal lines. For example, the desired lines between lines 90 and 100 are lines 93-1/3 and 96-2/3. As in previous reports, ordinal line numbers have been rounded to the nearest whole number (lines 93 and 97, respectively, in the previous example). Additional lines and more closely spaced stations are occupied on some cruises, then it is useful to list some line and station numbers to the nearest 0.1. Eber and Hewitt (1979) give conversion algorithms for conversion of latitude and longitude to CalCOFI station number. A few inshore stations have been listed to one decimal place in this report. It is not practical or desirable to list *all* stations to one decimal place because stations that occurred more than ± 0.2 n.m. along the station direction or ± 0.6 n.m. along the line direction from the desired position would require a different CalCOFI station number. For example, some of the repeat casts taken on the 24-hour stations would have different station numbers if listed to 0.1, although all casts were done within a very small area.

Primary Productivity Casts

The tabulated data include: sample depths, 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, nutrients (when measured), chlorophyll and phaeophytin. The uptake values shown are the total for the incubation period. The times of local apparent noon (LAN), civil twilight, and the vertically integrated value of the mean uptake from the surface to the deepest sample depth (assuming that the shallowest measured value extends to the surface and that negative values are zero) are also shown for each experiment. The uptake data have been presented to two significant digits (values < 1.00) or one decimal (values > 1.00). The higher production values may not warrant all of the significant digits presented. Incubation time, LAN, and civil twilight are given in local Pacific Standard Time (PST); to convert to GMT, add eight hours to the PST time.

FOOTNOTES

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

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

P: After depth values indicates the Nansen bottle posttripped.

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

LITERATURE CITED

Anderson, G. C., compiler, 1971. "Oxygen Analysis," Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.

Atlas, E. L., J. C. Callaway, R. D. Tomlinson, L. I. Gordon, L. Barstow and P. K. Park, 1971. *A Practical Manual for Use of the Technicon® AutoAnalyzer® in Sea Water Nutrient Analysis*; Revised. Oregon State University Technical Report 215, Reference No. 71-22.

Bryden, H. L., 1973. New polynomials for thermal expansion, adiabatic temperature gradient and potential temperature of seawater. *Deep-Sea Res., 20*: 401-408.

Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr., 10*: 141-143.

Eber, L. E., and R. P. Hewitt, 1979. Conversion algorithms for the CalCOFI Station Grid. *CalCOFI Rep. Vol. XX*: 135-137.

Fofonoff, N. P., 1977. Computation of potential temperature of seawater for an arbitrary reference pressure. *Deep-Sea Res., 24*: 489-491.

Holm-Hansen, O., C. J. Lorenzen, R. W. Holmes, and J. D. H. Strickland, 1965. Fluorometric determination of chlorophyll. *J. Cons. perm. int. Explor. Mer, 30*: 3-15.

Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.

Kramer, D., M. J. Kalin, E. G. Stevens, J. R. Thrailkill, and J. R. Zweifel, 1972. Collecting and processing data on fish eggs and larvae in the California Current region. *NOAA Technical Report NMFS CIRC-370*: 38 pp.

Lean, D. R. S., and B. K. Burnison, 1979. An evaluation of errors in the ^{14}C method of primary production measurement. *Limnol. Oceanogr., 24*: 799-998.

Lewis, E. L., 1980. The Practical Salinity Scale 1978 and its antecedents. *IEEE J. of Oceanic Eng.*, Vol. OE-5: 3-8.

Matthews, D. J., 1939. Tables of the velocity of sound in pure water and seawater for use in echo-sounding and sound-ranging. Second Edition. Hydrographic Department, Admiralty, H. D. 282, 52 pp.

Millero, F. J., C. T. Chen, A. Bradshaw, and K. Schleicher, 1980. A new high pressure equation of state for seawater. *Deep-Sea Res., 27A*: 255-264.

UNESCO, 1973. International Oceanographic Tables, Vol. 2, National Institute of Oceanography of Great Britain; and UNESCO, Paris; p. 141.

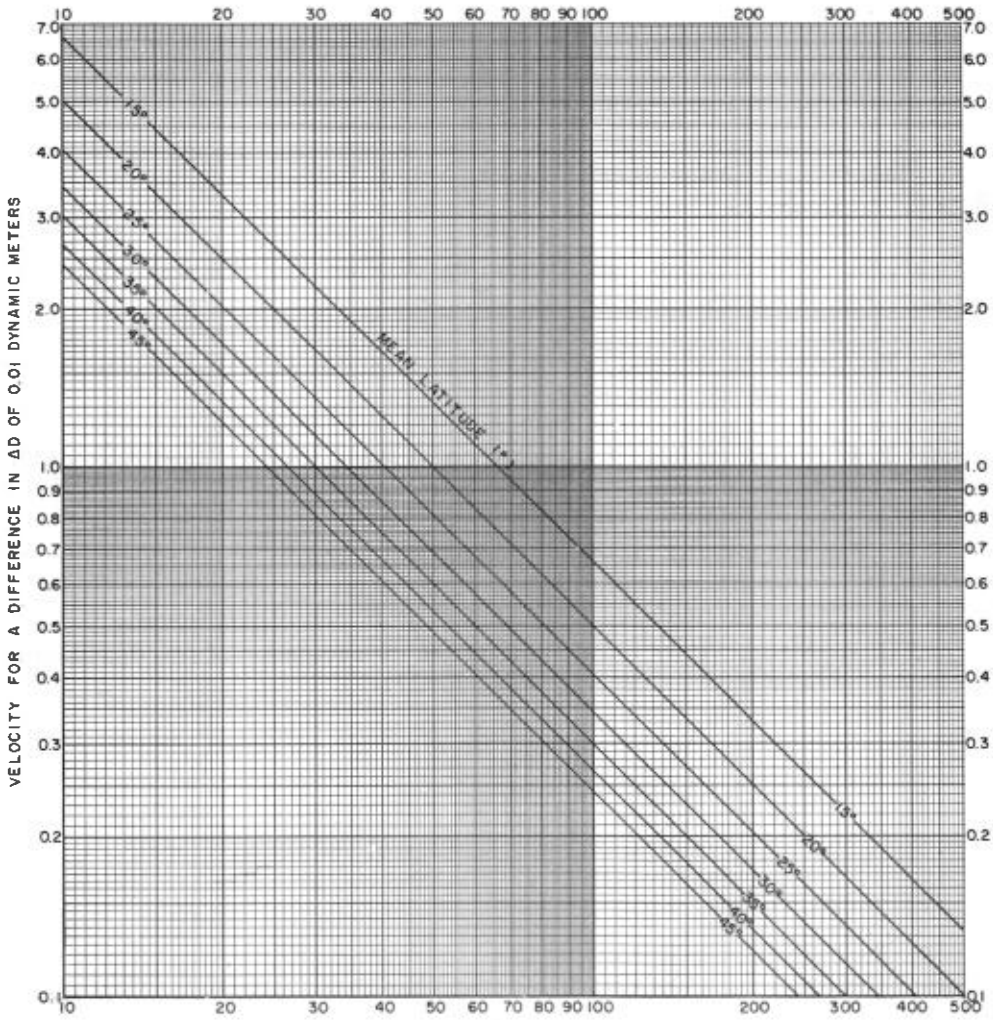
UNESCO, 1981,a. Background papers and supporting data on the Practical Salinity Scale 1978. *UNESCO Tech. Pap. in Mar. Sci., No. 37.*

UNESCO, 1981,b. Background papers and supporting data on the International Equation of State 1980. *UNESCO Tech. Pap. in Mar. Sci., No. 38.*

Venrick, E. L. and T. L. Hayward, 1984. Determination of chlorophyll on the 1984 CalCOFI surveys. *CalCOFI Rep., Vol. 25.*

Weiss, R. F., 1970. The solubility of nitrogen, oxygen and argon in water and seawater. *Deep-Sea Res., 17*: 721-735.

Yentsch, C. S. and D. W. Menzel, 1963. A method for the determination of phytoplankton chlorophyll and phaeophytin by fluorescence. *Deep-Sea Res., 10*: 221-231.



VELOCITY OF GEOSTROPHIC FLOW
(NAUTICAL MILES PER DAY)

cm/sec	0	1	2	3	4	5	6	7	8	9
0	KNOTS / NM/DAY	0.02 / 0.47	0.04 / 0.93	0.06 / 1.40	0.08 / 1.86	0.10 / 2.33	0.12 / 2.80	0.14 / 3.26	0.16 / 3.73	0.17 / 4.20
10	0.19 / 4.66	0.21 / 5.13	0.23 / 5.59	0.25 / 6.06	0.27 / 6.53	0.29 / 6.99	0.31 / 7.46	0.33 / 7.93	0.35 / 8.39	0.37 / 8.86
20	0.39 / 9.32	0.41 / 9.79	0.43 / 10.26	0.45 / 10.72	0.47 / 11.19	0.49 / 11.66	0.51 / 12.12	0.52 / 12.59	0.54 / 13.05	0.56 / 13.52
30	0.58 / 13.99	0.60 / 14.45	0.62 / 14.92	0.64 / 15.38	0.66 / 15.85	0.68 / 16.32	0.70 / 16.78	0.72 / 17.25	0.74 / 17.72	0.76 / 18.18
40	0.78 / 18.65	0.80 / 19.11	0.82 / 19.58	0.84 / 20.05	0.85 / 20.51	0.87 / 20.98	0.89 / 21.45	0.91 / 21.91	0.93 / 22.38	0.95 / 22.84
50	0.97 / 23.31	0.99 / 23.78	1.01 / 24.24	1.03 / 24.71	1.05 / 25.17	1.07 / 25.64	1.09 / 26.11	1.11 / 26.57	1.13 / 27.04	1.15 / 27.51
60	1.17 / 27.98	1.18 / 28.44	1.20 / 28.90	1.22 / 29.37	1.24 / 29.84	1.26 / 30.30	1.28 / 30.77	1.30 / 31.24	1.32 / 31.70	1.34 / 32.17
70	1.36 / 32.63	1.38 / 33.10	1.40 / 33.57	1.42 / 34.03	1.44 / 34.50	1.46 / 34.96	1.48 / 35.43	1.50 / 35.90	1.52 / 36.36	1.53 / 36.83
80	1.55 / 37.30	1.57 / 37.76	1.59 / 38.23	1.61 / 38.69	1.63 / 39.16	1.65 / 39.63	1.67 / 40.09	1.69 / 40.56	1.71 / 41.03	1.73 / 41.49
90	1.75 / 41.96	1.77 / 42.42	1.79 / 42.89	1.81 / 43.36	1.83 / 43.82	1.85 / 44.29	1.86 / 44.76	1.88 / 45.22	1.90 / 45.69	1.92 / 46.15
100	1.94 / 46.62	1.96 / 47.09	1.98 / 47.55	2.00 / 48.02	2.02 / 48.48	2.04 / 48.95	2.06 / 49.42	2.08 / 49.88	2.10 / 50.35	2.12 / 50.82

CONVERSION TABLE
(CENTIMETERS / SECOND – KNOTS – NAUTICAL MILES / DAY)

1 cm/sec = 0.019 kts = 0.466 NAUTICAL MILES / DAY
1 kt = 24 NAUTICAL MILES / DAY = 51.48 cm/sec
1 NAUTICAL MILE / DAY = 0.042 kts = 2.14 cm/sec

FIGURES

Cruise 8402-3

1. CalCOFI Cruise 8402-3, station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500 d-bar).
3. Horizontal distribution of dynamic height anomaly (200 over 500 d-bar).
4. Horizontal distribution of temperature at 10 meters
5. Horizontal distribution of salinity at 10 meters.
6. Horizontal distribution of sigma-theta at 10 meters.
7. Horizontal distribution of chlorophyll-*a* at 10 meters.
8. Horizontal distribution of temperature at 200 meters.
9. Horizontal distribution of salinity at 200 meters.
10. Horizontal distribution of sigma-theta at 200 meters.

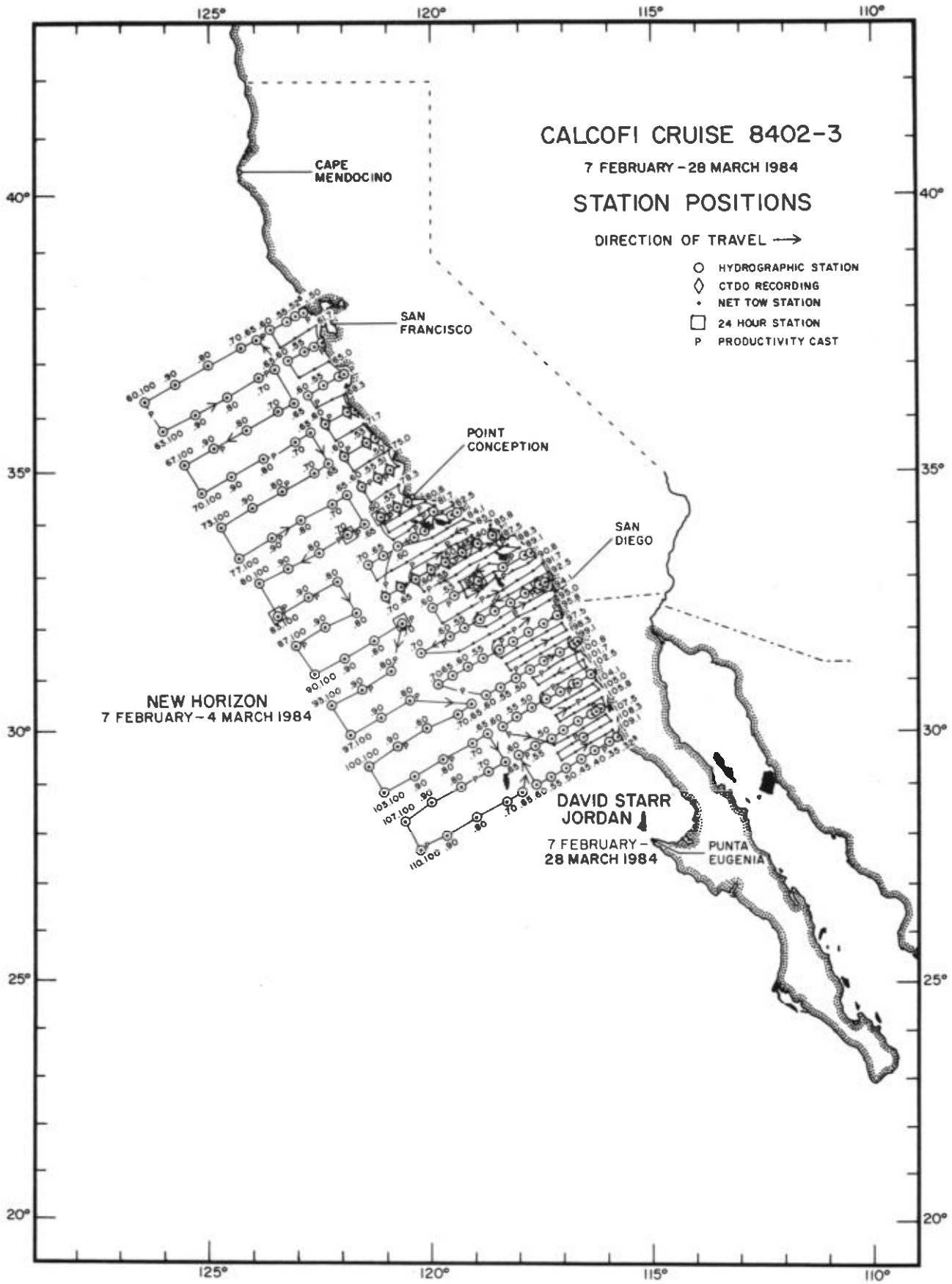

CALCOFI CRUISE 8402-3
7 FEBRUARY – 28 MARCH 1984
STATION POSITIONS
DIRECTION OF TRAVEL →
HYDROGRAPHIC STATION
CTDO RECORDING
NET TOW STATION
24 HOUR STATION
P PRODUCTIVITY CAST
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
NEW HORIZON
7 FEBRUARY – 4 MARCH 1984
DAVID STARR JORDAN
7 FEBRUARY – 28 MARCH 1984
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 1

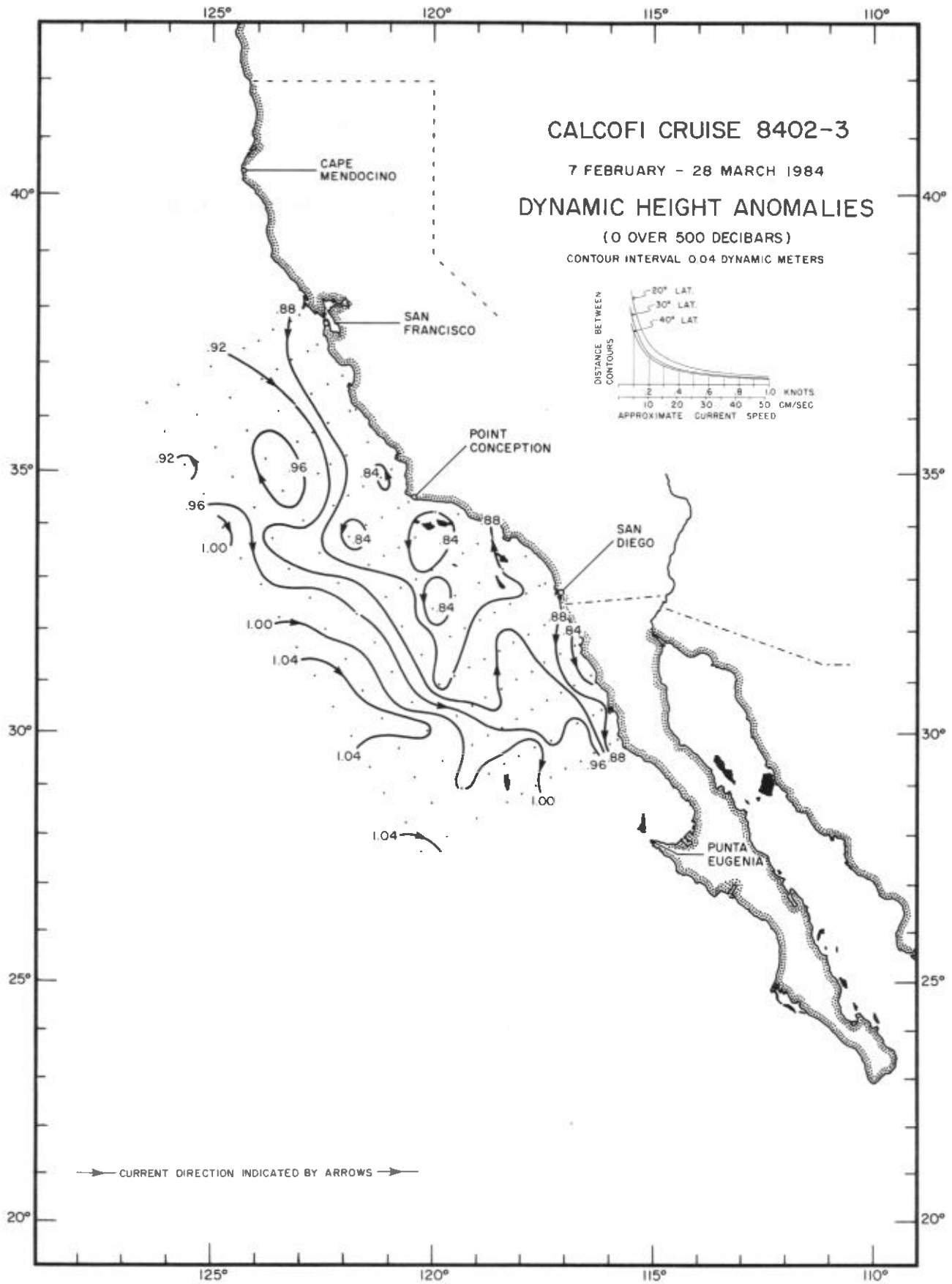

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.04 DYNAMIC METERS
DISTANCE BETWEEN CONTOURS
20° LAT.
30° LAT.
40° LAT.
2 4 6 8 10 KNOTS
10 20 30 40 50 CM/SEC
APPROXIMATE CURRENT SPEED
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
.88
.92
.96
1.00
.84
1.04
CURRENT DIRECTION INDICATED BY ARROWS

FIGURE 2

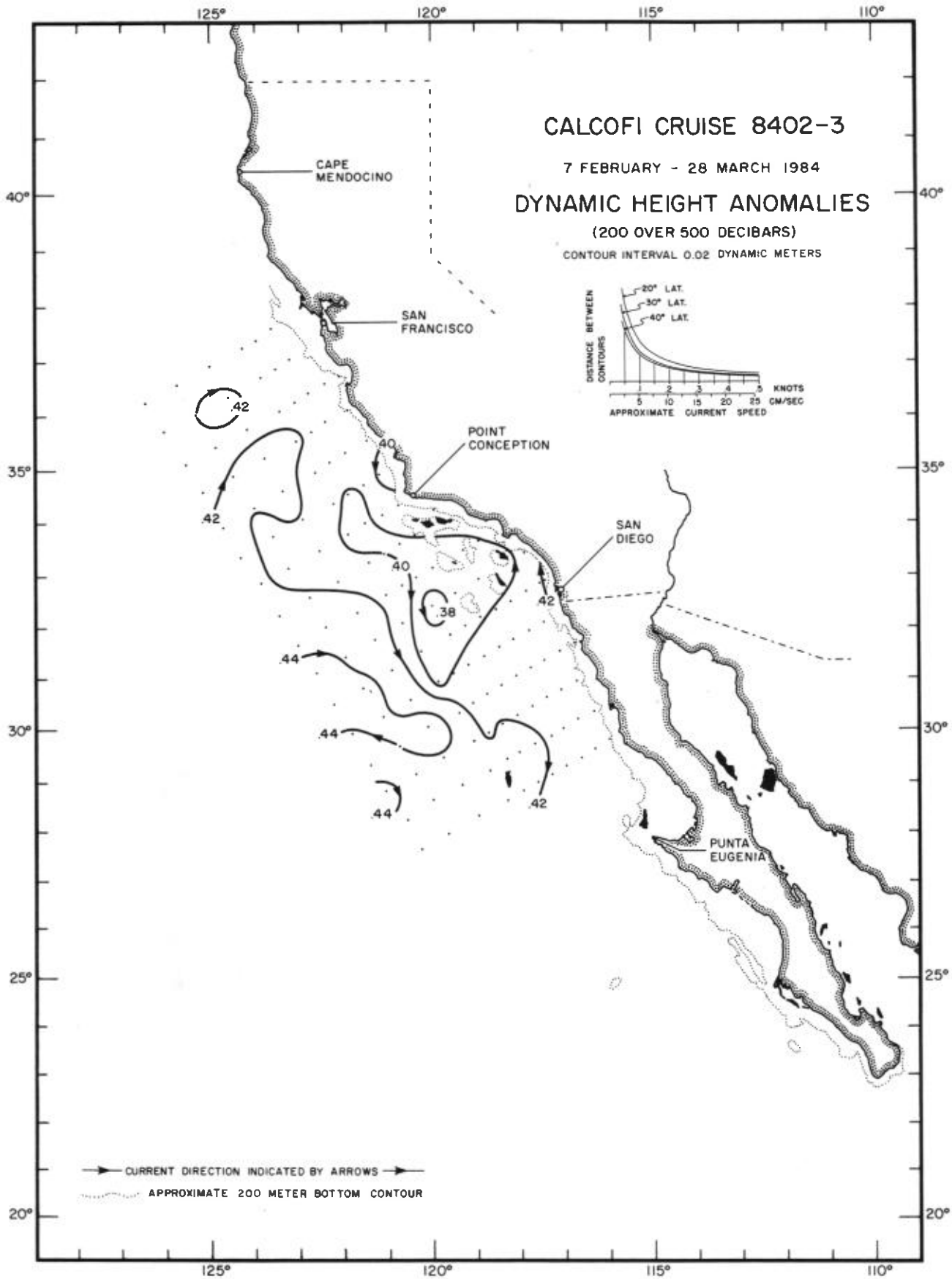

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
DYNAMIC HEIGHT ANOMALIES
(200 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.02 DYNAMIC METERS
20° LAT.
30° LAT.
40° LAT.
DISTANCE BETWEEN CONTOURS
KNOTS
CM/SEC
APPROXIMATE CURRENT SPEED
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
.42
.40
.38
.44
CURRENT DIRECTION INDICATED BY ARROWS
APPROXIMATE 200 METER BOTTOM CONTOUR

FIGURE 3

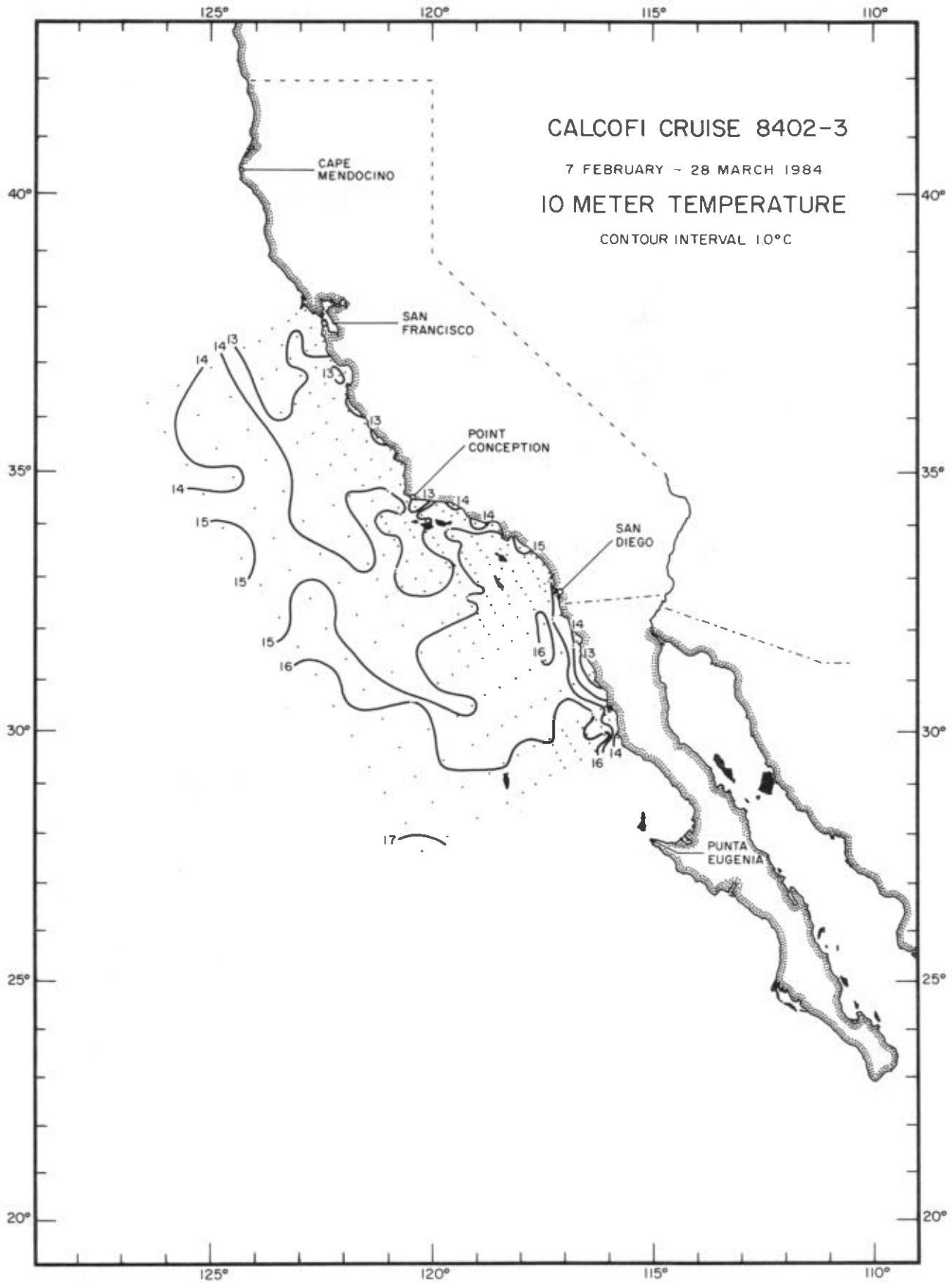

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
10 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 4

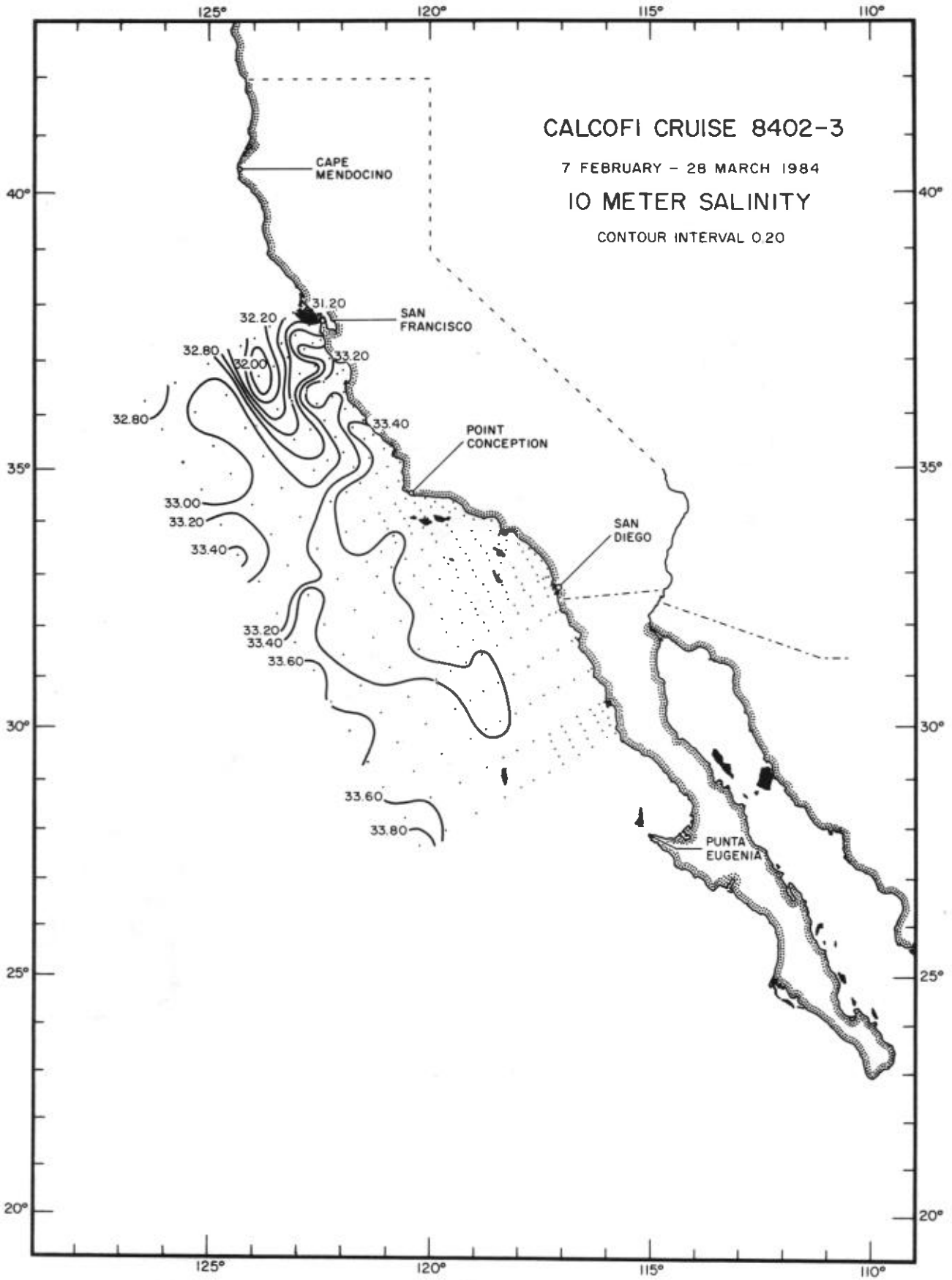

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
10 METER SALINITY
CONTOUR INTERVAL 0.20
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
31.20
32.20
32.80
32.00
33.20
33.40
32.80
33.00
33.20
33.40
33.20
33.40
33.60
33.60
33.80
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 5

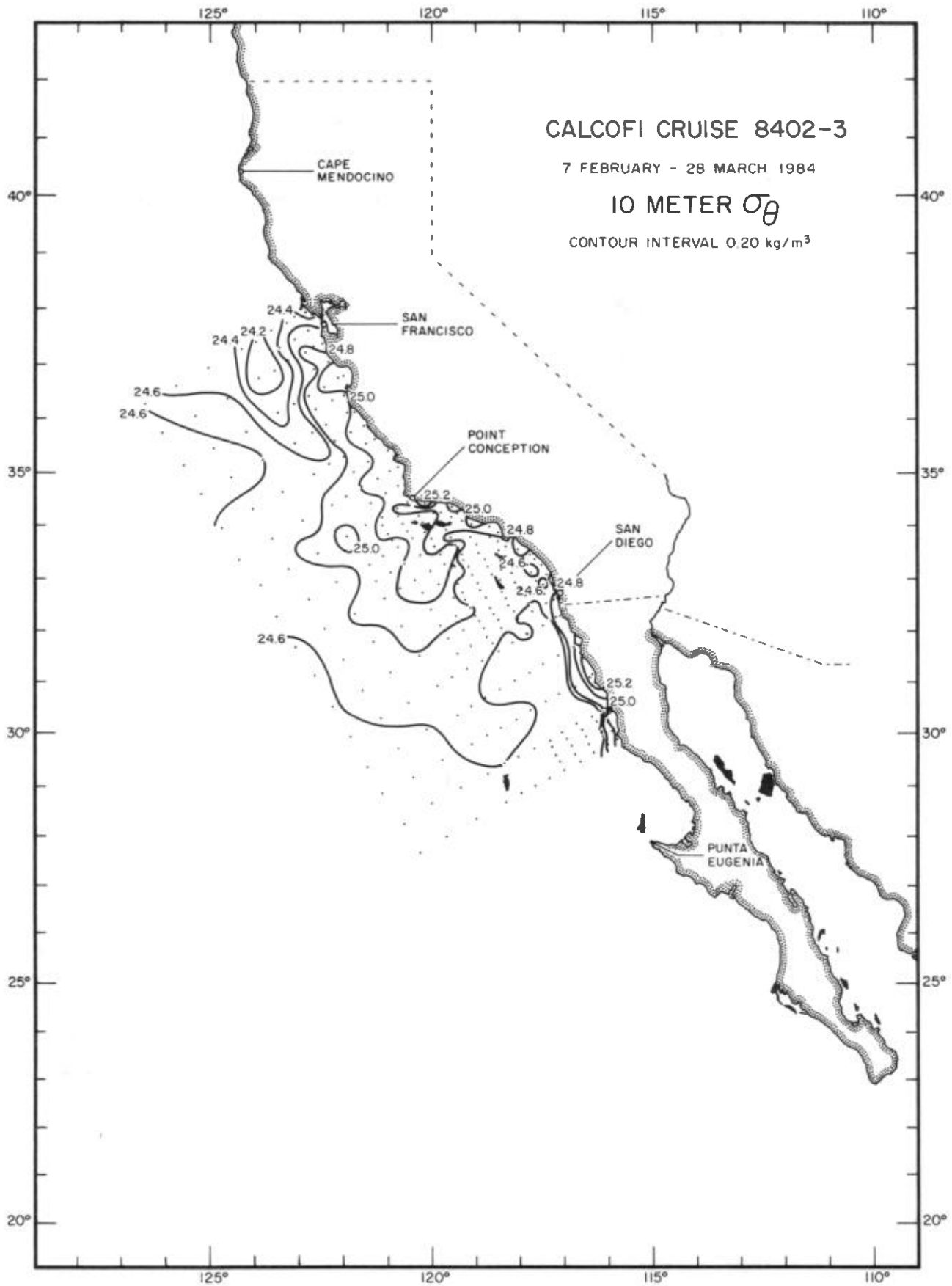

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
10 METER σ_θ
CONTOUR INTERVAL 0.20 kg/m^3
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
24.4
24.2
24.4
24.8
24.6
24.6
25.0
25.2
25.0
24.8
25.0
24.6
24.6
24.8
24.6
25.2
25.0
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 6

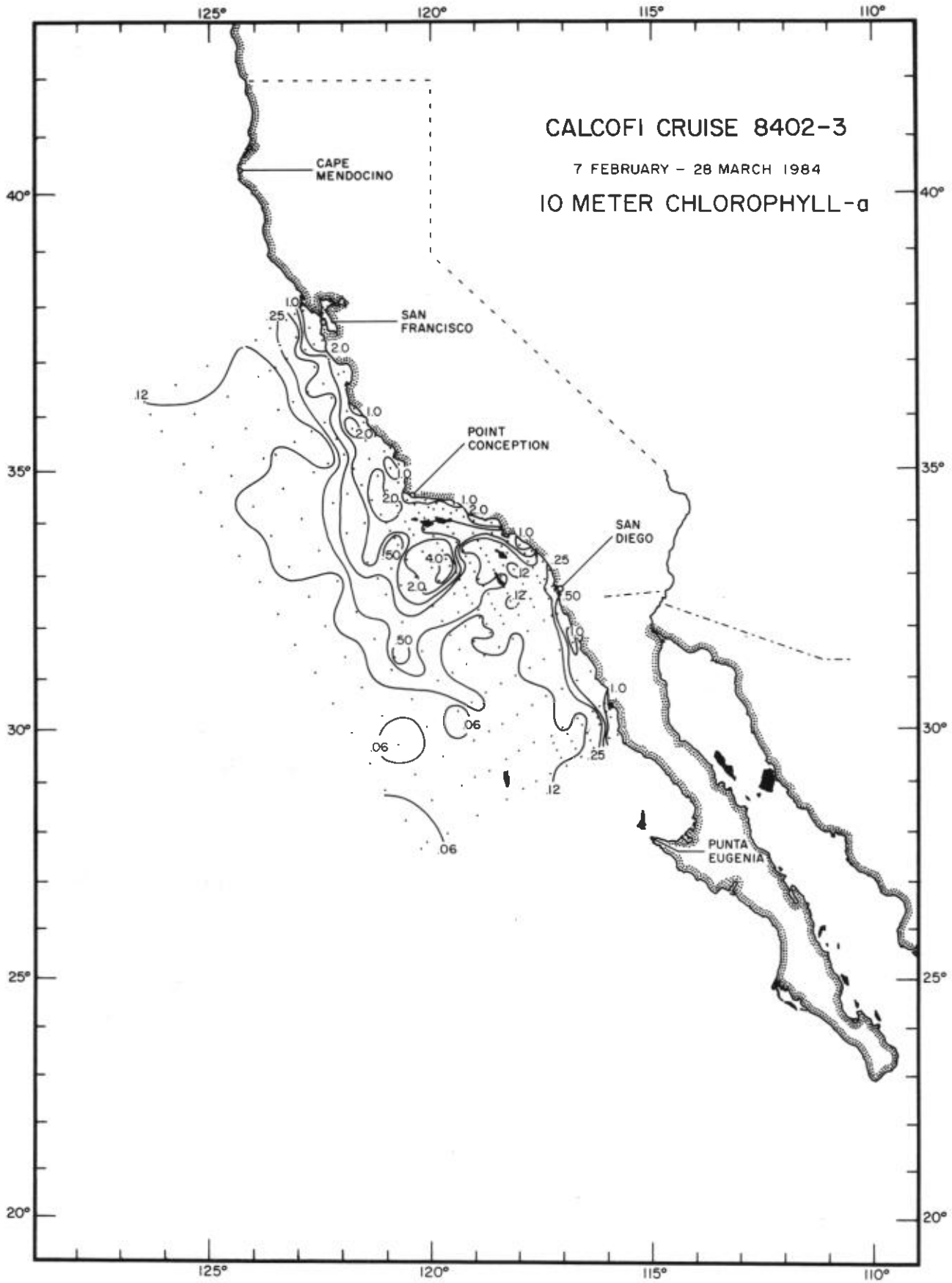

CALCOFI CRUISE 8402-3
7 FEBRUARY – 28 MARCH 1984
10 METER CHLOROPHYLL-a
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 7

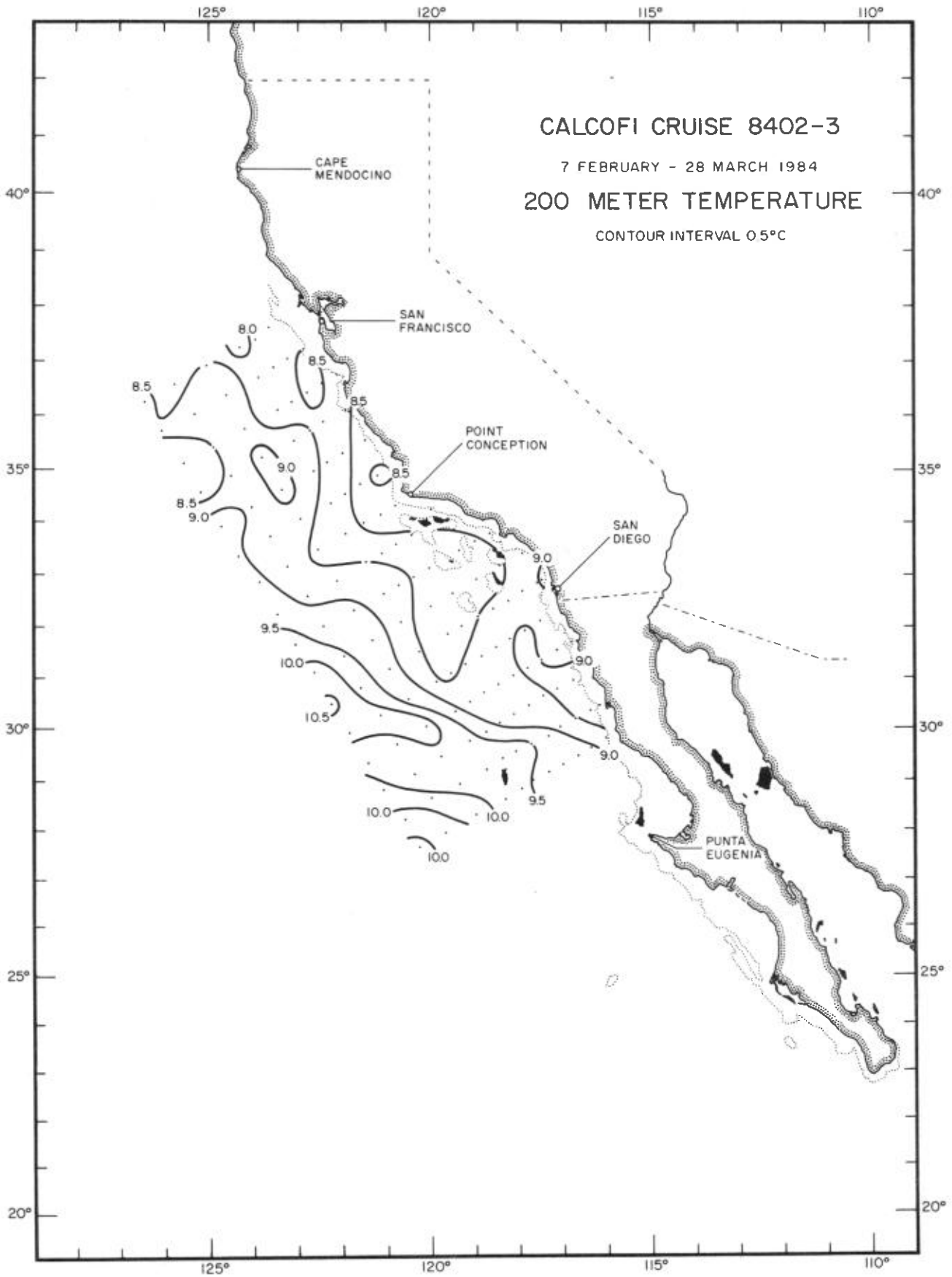

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
200 METER TEMPERATURE
CONTOUR INTERVAL 0.5°C
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
8.0
8.5
9.0
9.5
10.0
10.5

FIGURE 8

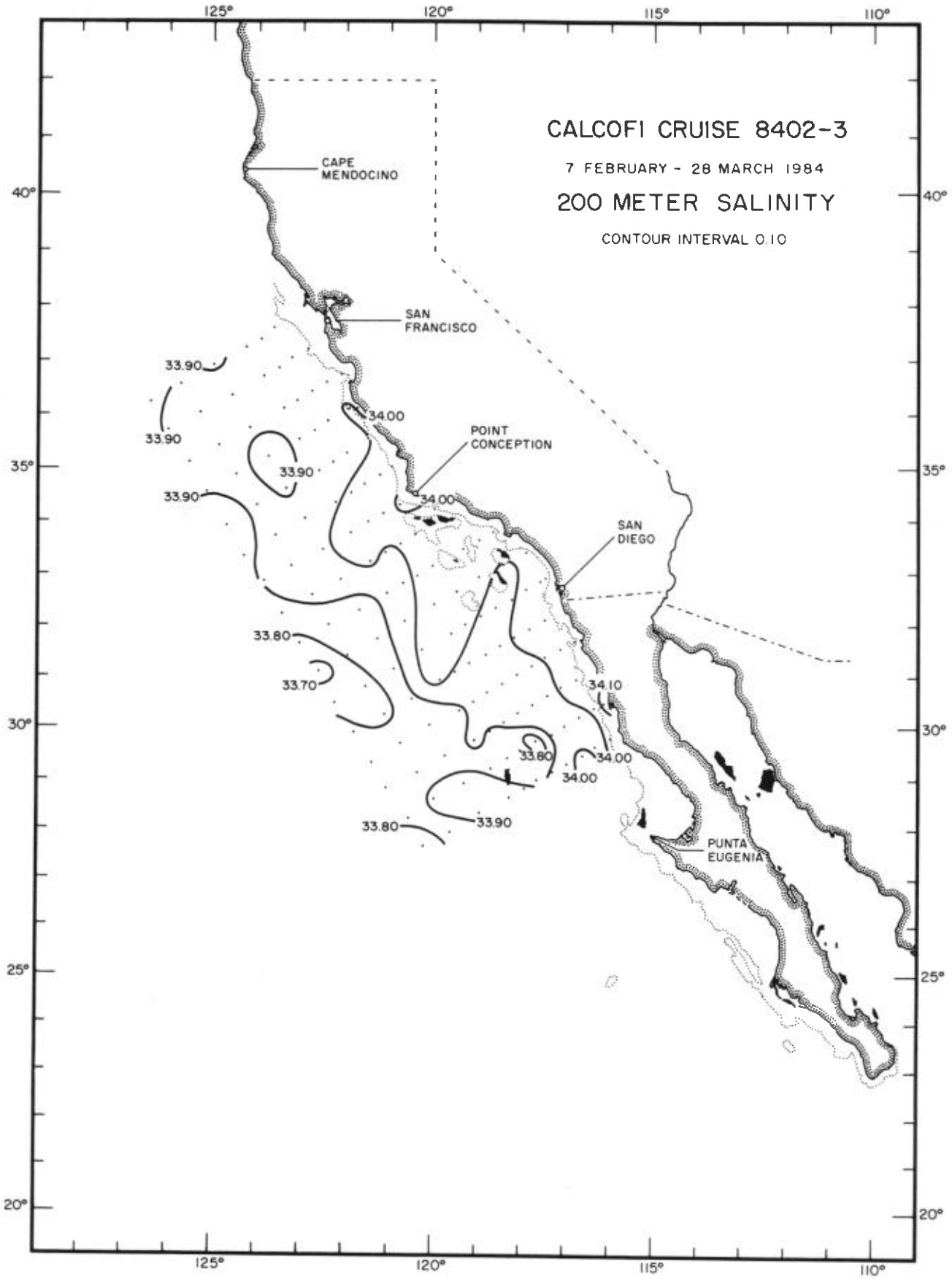

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
200 METER SALINITY
CONTOUR INTERVAL 0.10
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
33.90
33.90
33.90
33.90
34.00
34.00
33.80
33.70
34.10
33.80
34.00
34.00
33.80
33.90
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 9

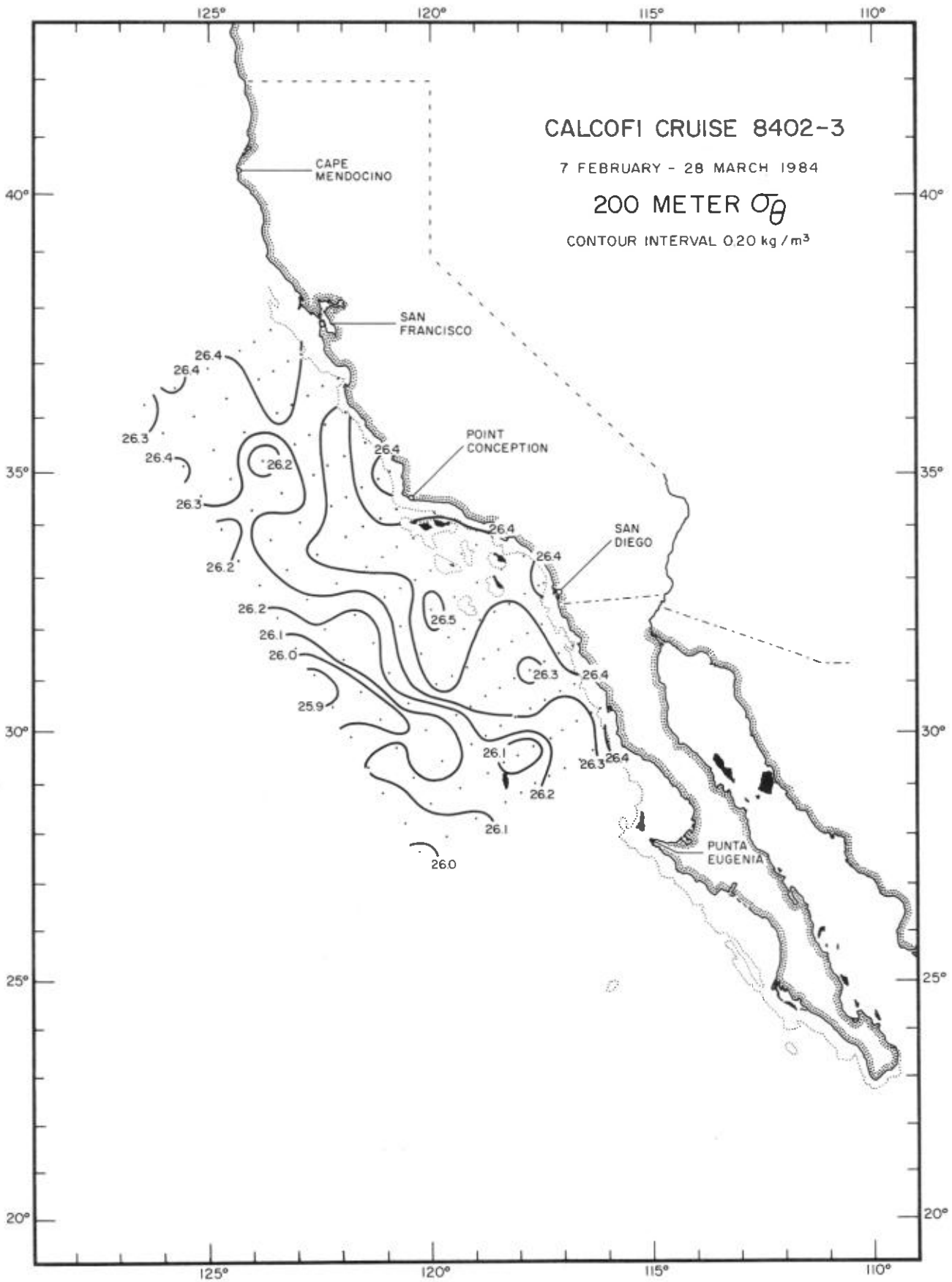

CALCOFI CRUISE 8402-3
7 FEBRUARY - 28 MARCH 1984
200 METER σ_θ
CONTOUR INTERVAL 0.20 kg / m³
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
26.4
26.3
26.2
26.5
26.1
26.0
25.9

FIGURE 10

PERSONNEL

Cruise 8402-3

SHIPS' CAPTAINS

Desjardins, Thomas J., RV *New Horizon*
Roll, Milton, RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV *New Horizon*

Bryan, Walter R. (in charge)	Marine Technician, SIO
Abramenkoff, Dimitry N.	Biological Technician, NMFS
Bryan, Mark A.	Volunteer
Calderon, Louis E.	Grad Student, CICESE
Cummings, Sherry L.	Staff Research Associate, SIO
Escobar, Jorge	Grad Student, CICESE
Granados, Luisa	Investigador Titular, INP
León, Cuahtéunoc	Grad Student, CICESE
Luna, Juan Andrés Figueroa	Investigador Titular, INP
Masten, Douglas M.	Marine Technician, SIO
Metoyer, Jack D.	Biological Technician, NMFS
Potter, Donna J.	Docent, Sea World, Inc.
Schmitt, James A.	Electronics Technician, SIO

RV *David Starr Jordan*

Flerx, William C. (in charge)	Fishery Biologist, NMFS
Abramenkoff, Dimitry N.	Biological Technician, NMFS
Ambrose, David A.	Fishery Biologist, NMFS
Anderson, George C.	Staff Research Associate, SIO
Beaupre, Marie-Claude	Staff Research Associate, SIO
Bos, David L.	Staff Research Associate, SIO
Brong, Deborah J.	Volunteer
Butler, John L.	Fishery Biologist, NMFS
Carillo, Gabriel	Grad Student, CICESE
Charter, Richard L.	Computer Specialist, NMFS
Dotson, Ronald C.	Fishery Biologist, NMFS
Espinola, Beatriz	Hydrobiologist, INP
Gorospe, Victorio A.	Biological Aide, NMFS
Hester, Arthur W.	Staff Research Associate, SIO
Iacometti, Susan	Computer Programmer, NMFS
Kemper, Cecelia A.	Staff Research Associate, SIO
Kokes, Chuck	Biological Technician, NMFS
Lynn, Eric A.	Biological Technician, NMFS
Meyer, Cindy H.	Computer Programmer, NMFS
Miller, Mark D.	Volunteer
Muus, David A.	Staff Research Associate, SIO
Nelson, James R.	Graduate Research Associate, SIO
Stevens, Elizabeth G.	Fishery Biologist, NMFS
White, Martha M.	Graduate Research Associate, SIO

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 60 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 56.8 N	122 52.9 W	02/09/84	2008 GMT	49 M	240	14 KT	220 04 08	2	1017.9 MB	14.0 C	10.9 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	12.88	12.88	31.036	23.348	452.3	.000	7.16	117.6	6.7	.27	.0	.02	6.58	.00	0
1	10	13.00	13.00	32.394	24.376	354.4	.040	6.54	108.6	2.7	.28	.0	.02	2.22	.31	10
	20 ISL	12.80	12.80	32.995	24.879	306.8	.073	5.21	86.5							20
1	21	12.77	12.77	33.021	24.906	304.3	.076	5.10	84.6	8.7	.74	5.5	.22	.87	.59	21
	30 ISL	12.34	12.34	33.187	25.118	284.4	.103	4.84	79.6							30
1	31	12.29	12.29	33.194	25.132	282.9	.105	4.82	79.2	11.3	.88	8.2	.21	.59	.48	31
1	41	11.63	11.62	33.359	25.385	259.2	.132	3.85	62.5	23.3	1.34	12.8	.23	.62	1.99	41

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 60 52.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 51.8 N	123 03.8 W	02/09/84	2228 GMT	90 M	280	16 KT	270 07 08	1	1016.9 MB	12.7 C	10.4 C	7/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.09	13.09	31.994	24.048	397.9	.000	6.83	113.3							0
1	2	13.09	13.09	31.994	24.048	385.5	.008	6.83	113.3	1.5	.24	.0	.01	2.24	.22	2
	10 ISL	12.88	12.87	32.484	24.470	345.5	.037	6.46	107.1							10
1	12	12.83	12.83	32.574	24.548	338.2	.044	6.37	105.5	5.2	.36	.2	.06	.63	.29	12
	20 ISL	12.73	12.72	32.809	24.751	319.0	.070	5.96	98.7							20
1	22	12.69	12.69	32.853	24.792	315.2	.076	5.85	96.8	6.9	.57	2.6	.23	.64	.40	22
1	30	12.36	12.36	33.111	25.055	290.3	.100	5.26	86.6	8.6	.76	6.2	.21	.50	.41	30
1	42	11.81	11.81	33.240	25.259	271.2	.134	4.69	76.3	12.5	1.00	10.4	.19	.35	.40	42
	50 ISL	11.27	11.27	33.378	25.465	251.7	.155	4.27	68.8							50
1	51	11.23	11.22	33.390	25.483	250.1	.157	4.24	68.2	16.4	1.20	13.8	.07	.23	.39	51
1	64	10.97	10.96	33.452	25.578	241.3	.189	4.05	64.8	18.3	1.29	15.3	.04	.22	.30	64
	75 ISL	10.75	10.74	33.498	25.653	234.5	.216	3.89	62.0							76
1	77	10.72	10.71	33.504	25.662	233.5	.220	3.87	61.6	19.6	1.36	17.0	.04	.18	.29	77

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 60 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 46.8 N	123 14.7 W	02/10/84	0124 GMT	125 M	290	15 KT	270 04 07	2	1017.3 MB	11.2 C	8.4 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	12.58	12.58	32.476	24.521	340.4	.000	6.42	105.7	5.3	.34	.1	.00	.45	.21	0
	10 ISL	12.58	12.58	32.476	24.521	340.4	.034	6.42	105.8							10
1	11	12.58	12.58	32.477	24.521	340.7	.037	6.47	106.5	5.3	.34	.1	.00	.44	.24	11
	20 ISL	12.59	12.58	32.832	24.795	314.7	.067	6.08	100.3							20
1	21	12.61	12.61	32.877	24.826	311.9	.070	6.03	99.6	5.9	.49	1.4	.13	1.17	.37	21
	30 ISL	12.21	12.20	32.880	24.905	302.6	.098	5.70	93.4							30
1	31	12.17	12.16	32.906	24.933	301.9	.100	5.67	92.8	7.7	.67	4.4	.24	.66	.34	31
1	40	12.15	12.14	33.149	25.126	283.8	.127	5.21	85.4	10.2	.88	8.0	.10	.43	.33	40
	50 ISL	11.83	11.82	33.287	25.292	268.2	.155	4.76	77.5							50
1	52	11.75	11.74	33.304	25.320	265.6	.159	4.69	76.3	11.8	1.03	10.6	.03	.25	.31	52
1	62	11.21	11.20	33.445	25.530	245.8	.185	4.34	69.8	14.4	1.21	14.1	.01	.16	.19	62
1	73	10.66	10.65	33.447	25.628	236.7	.211	4.29	68.2	15.5	1.29	15.4	.01	.13	.22	73
	75 ISL	10.58	10.57	33.465	25.655	234.2	.217	4.22	67.0							76
1	89	10.30	10.29	33.579	25.794	221.2	.248	3.79	59.8	20.3	1.50	18.6	.00	.06	.16	89
	100 ISL	10.16	10.14	33.628	25.857	215.5	.273	3.59	56.5							101
1	104	10.13	10.11	33.636	25.868	214.5	.282	3.55	55.8	23.5	1.61	20.4	.04	.07	.20	105

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 60 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
37 36.8 N	123 36.5 W	02/10/84	0637 GMT	3350 M	300 15 KT	280 06 08		1019.3 MB	10.9 C	8.2 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
																0
	0 ISL	12.80	12.79	32.214	24.276	363.7	.000	6.29	103.9							
1	1	12.80	12.79	32.214	24.276	363.8	.004	6.29	103.9	6.6	.29	.0	.01	.22	.11	1
	10 ISL	12.81	12.81	32.213	24.272	364.3	.036	6.40	105.7							10
1	11	12.81	12.81	32.213	24.272	364.4	.040	6.40	105.7	6.4	.30	.0	.01	.21	.10	11
	20 ISL	12.81	12.81	32.213	24.272	364.4	.073	6.33	104.6							20
1	21	12.82	12.81	32.214	24.272	364.6	.076	6.32	104.4	6.4	.30	.0	.01	.25	.10	21
	30 ISL	12.81	12.80	32.395	24.414	351.3	.109	6.14	101.6							30
1	32	12.76	12.76	32.437	24.456	347.4	.115	6.10	100.8	6.6	.39	.4	.15	.73	.25	32
1	41	13.18	13.17	32.824	24.675	326.9	.145	5.87	98.1	4.3	.44	.9	.34	.46	.27	41
	50 ISL	13.15	13.15	32.985	24.804	314.8	.175	5.58	93.3							50
1	52	13.04	13.03	32.995	24.835	311.9	.180	5.51	91.9	5.4	.56	3.3	.16	.45	.32	52
1	63	11.67	11.66	33.202	25.257	271.9	.212	4.88	79.2	9.9	.88	9.8	.04	.13	.17	63
1	72	11.15	11.14	33.247	25.385	259.8	.236	4.72	75.7	11.7	.98	11.7	.02	.11	.15	72
	75 ISL	10.95	10.94	33.282	25.449	253.8	.245	4.62	73.8							76
1	87	10.33	10.32	33.409	25.655	234.4	.273	4.28	67.5	16.1	1.23	16.1	.02	.08	.14	87
	100 ISL	10.04	10.03	33.486	25.765	224.2	.304	4.10	64.3							101
1	103	9.99	9.98	33.503	25.787	222.2	.312	4.07	63.8	18.7	1.36	18.4	.02	.08	.12	104
1	122	9.46	9.44	33.658	25.997	202.5	.352	3.84	59.5	22.4	1.46	20.8	.01	.06	.08	123
	125 ISL	9.41	9.39	33.674	26.017	200.7	.357	3.78	58.6							126
1	149	9.06	9.04	33.792	26.167	188.9	.404	3.22	49.5	28.4	1.71	24.9	.00	.03	.06	150
	150 ISL	9.04	9.02	33.797	26.172	188.3	.405	3.21	49.3							151
1	179	8.53	8.52	33.931	26.357	169.2	.457	2.83	43.0	34.2	1.89	27.5	.01			180
	200 ISL	8.25	8.23	33.980	26.439	161.8	.492	2.73	41.2							202
1	210	8.13	8.11	33.992	26.466	159.3	.507	2.70	40.7	39.1	1.98	28.4	.01			211
1	241	7.79	7.77	34.018	26.537	153.0	.555	2.52	37.7	42.7	2.05	29.9	.02			242
	250 ISL	7.68	7.65	34.024	26.558	151.1	.570	2.44	36.5							252
1	281	7.30	7.28	34.040	26.624	145.1	.616	2.16	32.0	49.5	2.20	32.2	.01			283
	300 ISL	7.11	7.08	34.052	26.661	141.8	.643	1.98	29.1							303
1	343	6.69	6.66	34.077	26.738	134.9	.702	1.57	22.9	59.3	2.46	35.4	.00			345
	400 ISL	6.11	6.07	34.098	26.831	126.5	.777	1.15	16.5							404
1	419	5.94	5.90	34.106	26.859	123.9	.801	1.03	14.8	73.2	2.70	38.4	.00			422
1	495	5.52	5.48	34.169	26.960	115.0	.892	.64	9.1	83.7	2.87	40.1	.00			499
	500 ISL	5.50	5.46	34.173	26.966	114.4	.897	.62	8.8							504
1	572	5.09	5.04	34.239	27.067	105.3	.976	.40	5.6	94.2	3.01	41.8	.00			576

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 60 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
37 25.5 N	123 58.7 W	02/09/84	1806 GMT	3730 M	250 18 KT	250 10 12	1	1017.1 MB	12.6 C	11.0 C	7/8 AC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	12.96	12.96	31.816	23.936	396.2	.000	6.24	103.2	4.4	.38	.0	.00	.16	.09	0
1	10	12.96	12.96	32.015	24.091	381.7	.039	6.28	103.9	5.1	.40	.0	.00	.15	.11	10
	20 ISL	12.93	12.93	32.397	24.392	353.2	.076	6.16	102.2							20
1	21	12.93	12.93	32.434	24.421	350.5	.079	6.15	102.0	4.5	.47	.0	.04	.48	.31	21
	30 ISL	12.95	12.95	32.686	24.611	332.6	.110	6.04	100.4							30
1	31	12.96	12.95	32.704	24.625	331.4	.113	6.03	100.2	3.3	.52	.2	.21	.40	.25	31
1	42	12.97	12.96	32.808	24.704	324.1	.149	5.93	98.6	3.0	.56	1.0	.34	.31	.26	42
	50 ISL	12.83	12.83	32.900	24.801	315.0	.175	5.71	94.8							50
1	57	12.68	12.67	33.004	24.912	304.6	.196	5.48	90.7	5.0	.76	4.7	.08	.20	.19	57
1	68	11.91	11.90	33.143	25.166	280.7	.228	5.11	83.3	7.5	.98	8.2	.05	.12	.17	68
	75 ISL	11.36	11.35	33.238	25.340	264.2	.248	4.87	78.5							76
1	78	11.17	11.16	33.271	25.400	258.5	.255	4.78	76.8	10.0	1.16	11.8	.05	.11	.15	78
1	94	10.40	10.39	33.443	25.687	231.6	.294	4.18	66.1	15.4	1.47	16.8	.02	.06	.11	94
	100 ISL	10.17	10.14	33.517	25.767	224.0	.308	3.99	62.8							101
1	113	9.80	9.79	33.605	25.899	211.7	.337	3.69	57.6	20.4	1.69	20.5	.03	.05	.10	114
	125 ISL	9.51	9.49	33.670	25.998	202.5	.361	3.55	55.1							126
1	134	9.30	9.29	33.719	26.069	195.8	.380	3.45	53.3	24.5	1.92	22.8	.01	.04	.09	135
	150 ISL	9.04	9.02	33.808	26.182	185.4	.410	3.15	48.5							151
1	160	8.89	8.87	33.860	26.247	179.4	.428	2.97	45.5	29.7	2.00	25.9	.01	.04	.08	161
1	191	8.39	8.37	33.960	26.402	165.1	.481	2.78	42.1	34.2	2.10	27.7	.01			192
	200 ISL	8.25	8.23	33.979	26.438	161.8	.496	2.74	41.4							202
1	222	7.92	7.90	34.011	26.512	155.0	.531	2.63	39.5	39.4	2.23	29.1	.01			223
	250 ISL	7.53	7.51	34.035	26.588	148.2	.574	2.37	35.2							252
1	258	7.43	7.40	34.040	26.607	146.5	.586	2.28	33.8	45.8	2.34	31.3	.01			260
	300 ISL	6.98	6.95	34.067	26.692	138.9	.645	1.87	27.4							303
1	310	6.88	6.85	34.073	26.709	137.3	.659	1.77	25.9	54.4	2.56	34.2	.00			312
1	367	6.34	6.31	34.092	26.796	129.5	.735	1.33	19.2	63.3	2.74	36.9	.00			369
	400 ISL	6.03	6.00	34.101	26.843	125.2	.777	1.15	16.6							404
1	454	5.60	5.56	34.126	26.916	118.7	.843	.92	13.1	76.2	2.96	39.9	.00			457
	500 ISL	5.37	5.33	34.171	26.980	113.0	.896	.69	9.8							504
1	542	5.21	5.17	34.215	27.033	108.2	.943	.52	7.3	87.4	3.13	41.8	.00			546
	600 ISL	5.00	4.95	34.262	27.095	102.9	1.004	.39	5.5							606
1	630	4.91	4.86	34.281	27.122	100.5	1.035	.37	5.2	96.2	3.20	42.6	.00			635

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 60 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 16.7 N	124 19.6 W	02/09/84	2250 GMT	3918 M	270	16 KT	310 13 14	2	1014.4 MB	13.2 C	10.3 C	8/8	AC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.92	12.91	32.320	24.335	359.1	.000	6.23	103.2							0
1	1	12.92	12.91	32.320	24.335	358.2	.004	6.23	103.2	4.1	.43	.1	.00	.11	.05	1
	10 ISL	12.92	12.92	32.320	24.334	358.2	.036	6.30	104.3							10
1	11	12.94	12.94	32.319	24.329	359.0	.039	6.30	104.4	4.2	.43	.0	.00	.12	.05	11
	20 ISL	12.85	12.85	32.419	24.423	350.2	.071	6.31	104.5							20
1	26	12.79	12.79	32.498	24.497	343.3	.092	6.33	104.7	3.2	.43	.0	.00	.11	.07	26
	30 ISL	12.81	12.80	32.531	24.520	341.3	.106	6.32	104.6							30
1	41	12.83	12.82	32.608	24.576	336.2	.142	6.24	103.4	2.4	.44	.0	.00	.25	.16	41
	50 ISL	12.76	12.75	32.674	24.640	330.3	.173	6.07	100.5							50
1	55	12.63	12.62	32.732	24.710	323.8	.189	5.95	98.2	2.6	.54	1.6	.20	.31	.27	55
1	70	10.99	10.98	33.044	25.257	271.9	.233	5.40	86.2	6.5	.87	7.2	.02	.08	.09	70
	75 ISL	10.72	10.71	33.092	25.341	264.0	.247	5.29	84.1							76
1	80	10.57	10.56	33.122	25.391	259.3	.259	5.21	82.5	8.6	1.00	9.5	.02	.05	.07	80
1	95	10.19	10.18	33.269	25.571	242.5	.297	4.78	75.1	12.6	1.23	13.5	.02	.03	.07	95
	100 ISL	9.99	9.98	33.302	25.629	237.1	.310	4.70	73.6							101
1	114	9.45	9.43	33.397	25.794	221.6	.343	4.52	69.8	16.9	1.45	17.1	.02	.02	.04	115
	125 ISL	9.06	9.05	33.523	25.954	206.5	.366	4.29	65.8							126
1	134	8.80	8.78	33.642	26.089	193.8	.384	4.02	61.4	23.3	1.68	21.6	.01	.01	.03	135
	150 ISL	8.68	8.66	33.803	26.234	180.3	.414	3.38	51.5							151
1	153	8.67	8.65	33.829	26.257	178.3	.419	3.26	49.7	28.5	1.93	25.7	.01	.01	.03	154
1	174	8.40	8.39	33.905	26.356	169.1	.456	3.12	47.3	31.6	2.02	27.0	.01	.01	.03	175
1	193	8.09	8.07	33.949	26.439	161.5	.487	3.06	46.1	34.7	2.06	27.7	.00			194
	200 ISL	7.94	7.92	33.947	26.460	159.4	.498	3.28	49.3							202
1	214	7.66	7.64	33.946	26.499	156.0	.520	3.71	55.3	34.7	1.92	26.1	.00			215
1	248	7.30	7.28	33.984	26.580	148.7	.571	3.10	45.8	41.1	2.14	28.9	.00			249
	250 ISL	7.27	7.25	33.986	26.585	148.2	.575	3.07	45.4							252
1	298	6.75	6.72	34.007	26.674	140.3	.644	2.54	37.1	50.4	2.40	32.6	.00			300
	300 ISL	6.73	6.70	34.008	26.678	139.9	.647	2.51	36.7							303
1	355	6.08	6.05	34.024	26.776	131.0	.721	1.75	25.2	61.0	2.69	36.9	.00			357
	400 ISL	5.77	5.74	34.061	26.844	124.9	.779	1.26	18.0							404
1	439	5.58	5.54	34.098	26.897	120.3	.827	.95	13.5	74.3	2.99	40.4	.00			442
	500 ISL	5.24	5.20	34.142	26.972	113.5	.898	.66	9.3							504
1	527	5.09	5.05	34.161	27.004	110.7	.929	.58	8.1	86.1	3.13	42.4	.00			531
	600 ISL	4.75	4.70	34.222	27.092	102.8	1.006	.39	5.4							606
1	613	4.69	4.64	34.233	27.108	101.3	1.020	.36	5.0	97.6	3.22	43.7	.00			618

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 60 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 56.8 N	125 02.4 W	02/10/84	0510 GMT		300	27 KT			1018.2 MB	11.4 C	9.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.17	14.17	32.962	24.578	334.8	.000	5.99	102.3							0
1	1	14.17	14.17	32.962	24.578	335.0	.003	5.99	102.3	1.9	.39	.2	.00	.14	.09	1
	10 ISL	14.20	14.20	32.961	24.572	335.9	.034	6.06	103.5							10
1	12	14.20	14.20	32.961	24.571	336.0	.040	6.07	103.7	1.5	.40	.2	.00	.14	.08	12
	20 ISL	14.20	14.20	32.960	24.571	336.2	.067	6.06	103.5							20
1	26	14.19	14.19	32.960	24.573	336.2	.087	6.05	103.3	2.2	.40	.2	.00	.14	.10	26
	30 ISL	14.20	14.20	32.960	24.571	336.7	.101	6.05	103.3							30
1	41	14.20	14.20	32.960	24.571	336.8	.137	6.03	103.0	2.0	.40	.2	.00	.15	.11	41
	50 ISL	14.28	14.28	32.999	24.585	335.8	.168	5.99	102.5							50
1	56	14.41	14.40	33.060	24.604	334.1	.187	5.96	102.0	2.1	.40	.2	.01	.35	.26	56
1	71	13.48	13.47	33.024	24.770	318.6	.236	5.64	94.9	3.4	.58	2.8	.04	.15	.15	71
	75 ISL	12.90	12.89	33.037	24.894	306.8	.250	5.54	92.1							76
1	80	12.30	12.29	33.062	25.031	293.9	.264	5.43	89.2	5.5	.75	5.5	.02	.10	.13	80
1	95	11.50	11.49	33.162	25.257	272.6	.306	5.18	83.7	7.6	.92	8.2	.02	.13	.15	95
	100 ISL	11.19	11.18	33.233	25.368	262.1	.320	4.99	80.2							101
1	114	10.43	10.42	33.430	25.655	235.0	.356			15.3	1.36	16.0	.01	.11	.06	115
	125 ISL	10.00	9.98	33.525	25.803	221.1	.380	4.13	64.8							126
1	134	9.70	9.68	33.588	25.903	211.7	.400	3.81	59.3	21.1	1.67	20.9	.02	.03	.04	135
	150 ISL	9.39	9.37	33.676	26.022	200.6	.433	3.56	55.1							151
1	154	9.32	9.31	33.696	26.048	198.2	.441	3.50	54.1	24.9	1.79	23.1	.01	.03	.03	155
1	174	9.00	8.99	33.800	26.181	186.0	.479	3.04	46.7	28.3	1.92	25.4	.01	.02	.02	175
1	194	8.67	8.65	33.882	26.297	175.2	.515	3.04	46.4	31.4	2.01	26.5	.02			195
	200 ISL	8.60	8.57	33.899	26.323	172.9	.526	3.02	46.0							202
1	214	8.43	8.40	33.931	26.374	168.2	.549	3.01	45.7	33.3	2.05	27.4	.01			215
1	249	7.89	7.87	34.011	26.517	155.1	.605	2.74	41.1	39.4	2.15	29.7	.03			250
	250 ISL	7.87	7.84	34.012	26.522	154.7	.608	2.73	40.9							252
1	299	7.08	7.05	34.025	26.644	143.4	.681	2.30	33.8	49.6	2.41	32.7	.00			301
	300 ISL	7.07	7.04	34.026	26.646	143.2	.682	2.29	33.7							303
1	355	6.50	6.47	34.045	26.739	134.9	.758	1.76	25.5	58.2	2.63	36.0	.00			357
	400 ISL	6.16	6.13	34.076	26.806	128.9	.818	1.31	18.8							403
1	442	5.90	5.86	34.106	26.864	123.7	.871	.95	13.6	71.4	2.94	40.1	.01			445
	500 ISL	5.49	5.44	34.138	26.940	116.8	.941	.71	10.0							504
1	529	5.30	5.25	34.156	26.977	113.5	.975	.63	8.9	84.3	3.13	42.3	.00			533
	600 ISL	4.95	4.91	34.217	27.065	105.6	1.052	.40	5.6							605
1	617	4.89	4.84	34.234	27.086	103.7	1.070	.35	4.9	95.8	3.21	43.8	.01			622

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 60 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
36 36.2 N	125 47.7 W	02/10/84	1102 GMT	4502 M	320 17 KT			1021.8 MB	11.5 C	8.7 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.69	13.69	32.819	24.566	336.1	.000	6.12	103.4	1.6	.40	.2	.00	.15	.12	0
1	10	13.72	13.71	32.823	24.565	336.5	.033			1.6	.43	.2	.00	.15	.12	10
	20 ISL	13.72	13.72	32.825	24.565	336.8	.067	6.12	103.4							20
1	26	13.73	13.72	32.826	24.565	336.9	.087	6.12	103.4	1.6	.40	.2	.00	.16	.12	26
	30 ISL	13.73	13.73	32.827	24.564	337.1	.101	6.11	103.3							30
1	41	13.75	13.74	32.827	24.563	337.6	.137	6.10	103.1	1.7	.43	.2	.00	.15	.12	41
	50 ISL	13.73	13.73	32.827	24.565	337.6	.168	6.11	103.3							50
1	56	13.71	13.70	32.822	24.566	337.6	.188	6.13	103.6	1.5	.40	.2	.00	.15	.12	56
1	71	12.99	12.98	32.990	24.841	311.8	.236	5.65	94.1	3.9	.61	3.1	.04	.14	.16	71
	75 ISL	12.37	12.36	33.022	24.986	298.1	.250	5.54	91.2							76
1	81	11.56	11.55	33.067	25.172	280.4	.266	5.41	87.5	6.5	.83	6.7	.03	.09	.12	81
1	97	10.79	10.78	33.206	25.418	257.1	.309	4.94	78.6	10.7	1.11	11.6	.02	.06	.07	97
	100 ISL	10.66	10.64	33.238	25.467	252.6	.317	4.86	77.1							101
1	116	10.16	10.15	33.388	25.669	233.6	.357	4.49	70.6	15.4	1.36	16.3	.01	.04	.06	117
	125 ISL	10.00	9.98	33.459	25.751	226.0	.377	4.27	66.9							126
1	136	9.80	9.79	33.550	25.856	216.3	.402	3.99	62.3	20.0	1.58	20.0	.01	.01	.03	137
	150 ISL	9.45	9.44	33.670	26.008	202.1	.431	3.69	57.2							151
1	156	9.28	9.27	33.722	26.075	195.7	.443	3.57	55.1	24.4	1.78	23.4	.01	.02	.03	157
1	177	8.79	8.77	33.855	26.258	178.7	.482	3.27	50.0	29.4	1.89	25.6	.01	.01	.03	178
1	197	8.42	8.40	33.942	26.383	167.0	.516	3.05	46.3	33.0	2.00	27.6	.01			198
	200 ISL	8.35	8.33	33.951	26.401	165.4	.522	3.08	46.7							202
1	217	7.99	7.97	33.983	26.479	158.1	.549	3.29	49.4	35.7	2.00	27.6	.01			218
	250 ISL	7.62	7.59	34.014	26.559	150.9	.600	3.00	44.7							252
1	253	7.60	7.57	34.015	26.563	150.6	.604	2.96	44.1	41.7	2.10	30.0	.02			254
	300 ISL	7.12	7.09	34.041	26.651	142.8	.673	2.44	36.0							303
1	303	7.09	7.06	34.042	26.656	142.3	.678	2.41	35.5	49.2	2.35	32.5	.01			305
1	358	6.39	6.35	34.049	26.756	133.2	.753	1.88	27.2	58.6	2.58	36.2	.00			360
	400 ISL	6.13	6.09	34.079	26.813	128.2	.808	1.44	20.8							403
1	445	5.94	5.90	34.119	26.869	123.4	.865	1.03	14.8	70.0	2.91	39.9	.01			448
	500 ISL	5.56	5.52	34.162	26.950	116.0	.931	.72	10.2							504
1	530	5.35	5.30	34.186	26.995	111.9	.965	.61	8.6	82.7	3.06	42.5	.00			534
	600 ISL	4.95	4.90	34.240	27.084	103.8	1.041	.45	6.3							605
1	615	4.88	4.83	34.252	27.102	102.2	1.056	.44	6.2	94.2	3.17	44.0	.01			620

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 60 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
36 16.5 N	126 29.4 W	02/10/84	1642 GMT	4635 M	340 10 KT	330 12 12	1	1025.0 MB	12.1 C	8.4 C	2/8 CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.20	13.20	32.754	24.615	331.4	.000	6.19	103.4	.8	.41	.2	.00	.12	.09	0
1	10	13.21	13.21	32.753	24.612	331.9	.033	6.16	103.0	.8	.41	.2	.00	.12	.08	10
	20 ISL	13.20	13.20	32.753	24.614	332.1	.066	6.16	102.9							20
1	26	13.20	13.20	32.753	24.614	332.2	.086	6.16	102.9	.8	.41	.2	.00	.13	.07	26
	30 ISL	13.21	13.21	32.754	24.614	332.4	.100	6.16	103.0							30
1	42	13.21	13.21	32.754	24.613	332.7	.139	6.16	103.0	.8	.41	.2	.00	.13	.09	42
	50 ISL	13.19	13.18	32.756	24.620	332.3	.166	6.15	102.8							50
1	57	13.17	13.16	32.760	24.628	331.7	.188	6.14	102.5	.8	.42	.2	.00	.23	.14	57
1	73	13.16	13.15	32.779	24.643	330.7	.241	6.09	101.7	.9	.43	.2	.04	.24	.15	73
	75 ISL	12.95	12.94	32.824	24.719	323.4	.249	6.04	100.4							76
1	83	12.18	12.17	32.981	24.991	297.7	.273	5.85	95.8	2.7	.58	2.4	.06	.21	.17	83
1	99	11.23	11.21	33.074	25.238	274.4	.318	5.63	90.4	4.8	.72	4.9	.02	.08	.11	99
	100 ISL	11.16	11.15	33.087	25.260	272.3	.322	5.60	89.8							101
1	119	10.33	10.31	33.268	25.547	245.3	.372	5.32	80.7	9.9	1.05	10.9	.02	.02	.04	120
	125 ISL	10.07	10.06	33.315	25.627	237.8	.386	4.94	77.4							126
1	139	9.50	9.48	33.437	25.817	219.9	.419	4.45	68.9	18.2	1.46	18.1	.01	.01	.02	140
	150 ISL	9.26	9.24	33.541	25.938	208.6	.441	4.11	63.3							151
1	160	9.09	9.08	33.633	26.036	199.4	.462	3.86	59.3	23.2	1.68	22.1	.00	.00	.03	161
1	181	8.78	8.76	33.765	26.184	185.3	.502	3.80	58.1	26.0	1.76	23.4	.00	.01	.02	182
	200 ISL	8.60	8.58	33.859	26.290	176.0	.537	3.50	53.3							202
1	202	8.59	8.56	33.867	26.299	175.1	.540	3.46	52.7	29.4	1.90	25.5	.00			203
1	222	8.31	8.28	33.959	26.414	164.5	.574	2.96	44.8	34.6	2.09	28.2	.01			223
	250 ISL	7.88	7.86	33.966	26.483	156.5	.619	2.99	44.8							252
1	258	7.76	7.73	33.989	26.519	154.9	.632	3.09	46.2	38.6	2.08	28.8	.01			260
	300 ISL	7.29	7.26	34.029	26.617	146.1	.695	2.54	37.6							303
1	310	7.18	7.15	34.035	26.638	144.2	.709	2.38	35.1	48.1	2.38	33.0	.00			312
1	367	6.32	6.29	34.016	26.739	134.9	.788	2.21	31.9	57.2	2.55	35.5	.00			369
	400 ISL	5.97	5.94	34.031	26.795	129.7	.832	1.85	26.6							403
1	455	5.55	5.51	34.076	26.883	121.8	.902	1.20	17.0	73.5	2.88	40.5	.01			458
	500 ISL	5.26	5.22	34.120	26.952	115.4	.955	.88	12.4							504
1	542	5.06	5.01	34.164	27.011	110.1	1.003	.68	9.5	86.7	3.09	42.8	.00			546
	600 ISL	4.87	4.82	34.221	27.078	104.3	1.065	.52	7.3							605
1	630	4.82	4.77	34.249	27.106	101.9	1.096	.50	7.0	96.1	3.19	44.2	.01			635

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 63 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
37 22.6 N	122 28.4 W	02/10/84	1845 GMT	33 M	340 12 KT	280 05 10	1	1025.4 MB	11.9 C	8.7 C	4/8 ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	12.70	12.70	32.703	24.673	325.9	.000	6.59	108.9	2.1	.44	.3	.01	4.09	.68	0
1	7	12.71	12.71	32.702	24.671	326.3	.023	6.63	109.6	2.0	.51	.3	.01	3.90	.95	7
	10 ISL	12.73	12.73	32.801	24.743	319.5	.033	6.58	108.9							10
1	19	12.74	12.74	33.158	25.019	293.5	.060	6.12	101.5	3.0	.52	.8	.05	3.55	.54	19
	20 ISL	12.70	12.70	33.183	25.045	291.0	.063	6.03	99.9							20
1	28	12.24	12.24	33.283	25.212	275.3	.085	5.12	84.1	9.4	.92	6.7	.26	1.21	1.62	28

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 63 52

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 18.6 N	122 37.1 W	02/10/84	2108 GMT	92 M	330	17 KT	280 06 10	1	1025.4 MB	12.3 C	9.0 C	6/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.81	12.81	32.707	24.656	329.2	.000	6.63	109.9							0
1	2	12.81	12.81	32.707	24.656	327.6	.007	6.63	109.9	1.0	.33	.2	.01	1.76	.34	2
	10 ISL	12.80	12.80	32.870	24.782	315.8	.032	6.63	109.8							10
1	12	12.79	12.79	32.923	24.827	311.6	.038	6.62	109.8	1.2	.37	.2	.01	3.00	.40	12
	20 ISL	12.62	12.62	33.200	25.074	288.3	.063	6.06	100.2							20
1	21	12.59	12.59	33.228	25.102	285.7	.065	5.97	98.8	3.7	.56	2.2	.09	3.31	.87	21
	30 ISL	12.13	12.13	33.342	25.278	269.1	.090	4.97	81.5							30
1	32	12.04	12.04	33.351	25.302	266.9	.095	4.79	78.4	11.2	1.02	9.2	.31	.65	.65	32
1	42	11.85	11.85	33.386	25.365	261.1	.122	4.56	74.4	13.5	1.14	11.0	.37	.38	.64	42
	50 ISL	11.79	11.79	33.396	25.384	259.5	.143	4.55	74.1							50
1	53	11.78	11.78	33.397	25.386	259.3	.150	4.52	73.6	13.6	1.19	11.6	.33	.32	.58	53
1	62	11.75	11.74	33.401	25.396	258.6	.173	4.47	72.7	14.4	1.20	11.8	.33	.33	.59	62
	75 ISL	11.54	11.53	33.458	25.479	251.1	.207	4.32	69.9							76
1	77	11.51	11.50	33.469	25.494	249.6	.211	4.29	69.5	14.8	1.24	13.6	.08	.18	.49	77

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 63 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 12.6 N	122 50.1 W	02/10/84	2346 GMT	300 M	340	10 KT	280 06 10	1	1023.4 MB	11.9 C	8.7 C	2/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.08	13.08	33.013	24.840	313.4	.000	6.30	105.2							0
1	2	13.08	13.08	33.013	24.840	310.1	.006	6.30	105.2	4.0	.39	.2	.02	.58	.19	2
	10 ISL	12.84	12.84	33.176	24.973	297.6	.031	6.36	105.8							10
1	12	12.79	12.79	33.150	25.003	294.8	.036	6.62	109.9	1.8	.36	.0	.00	1.70	.38	12
	20 ISL	12.58	12.58	33.230	25.106	285.2	.060	6.13	101.4							20
	30 ISL	12.25	12.24	33.313	25.233	273.3	.088	5.29	86.9							30
1	33	12.14	12.13	33.333	25.270	270.0	.095	5.00	82.0	9.1	.84	7.8	.14	.96	1.18	33
1	47	11.36	11.35	33.449	25.505	247.8	.139	4.37	70.5	13.4	1.14	13.0	.02	.19	.23	47
	50 ISL	11.31	11.30	33.458	25.521	246.5	.139	4.33	69.9							50
1	58	11.22	11.21	33.472	25.548	244.1	.158	4.29	69.0	14.3	1.16	13.7	.01	.14	.22	58
1	74	10.56	10.55	33.564	25.736	226.4	.196	3.93	62.4	17.6	1.35	17.2	.00	.05	.17	74
	75 ISL	10.51	10.50	33.572	25.751	225.0	.199	3.91	62.0							76
1	89	10.14	10.12	33.640	25.869	214.0	.228	3.71	58.4	21.0	1.48	19.6	.00	.04	.15	89
	100 ISL	10.03	10.02	33.686	25.923	209.2	.253	3.49	54.8							101
1	108	9.99	9.97	33.716	25.954	206.4	.270	3.33	52.2	24.7	1.63	21.3	.05	.05	.18	109
	125 ISL	9.70	9.69	33.788	26.058	196.8	.304	3.11	48.5							126
1	134	9.53	9.51	33.823	26.114	191.7	.322	3.03	47.1	27.8	1.77	24.0	.02	.03	.13	135
	150 ISL	9.33	9.31	33.855	26.172	186.5	.351	2.96	45.8							151
1	154	9.27	9.26	33.861	26.186	185.3	.359	2.95	45.6	29.7	1.84	25.0	.00	.01	.11	155
1	191	8.62	8.60	33.946	26.356	169.5	.424	2.74	41.7	35.1	1.97	27.2	.00	.02	.09	192
	200 ISL	8.50	8.48	33.959	26.384	167.1	.440	2.71	41.2							202
1	223	8.23	8.21	33.982	26.444	161.7	.477	2.63	39.7	39.0	2.06	28.8	.01	.02	.09	224
	250 ISL	7.80	7.78	34.012	26.531	153.8	.520	2.46	36.8							252
1	263	7.56	7.54	34.026	26.576	149.5	.540	2.35	35.0	45.9	2.21	31.3	.01			265

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 63 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 02.6 N	123 11.7 W	02/11/84	0456 GMT	2590 M	340	10 KT			1025.4 MB	12.2 C	8.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.01	13.01	32.503	24.458	346.4	.000	6.19	102.9	3.3	.31	.1	.00	.30	.08	0
1	10	13.03	13.03	32.509	24.458	346.6	.035	6.32	105.1	3.3	.32	.1	.00	.29	.11	10
	20 ISL	13.24	13.24	32.804	24.646	329.0	.068	5.98	100.0							20
1	22	13.26	13.26	32.868	24.690	324.8	.075	5.90	98.8	3.2	.41	.4	.21	.98	.13	22
	30 ISL	13.08	13.08	33.010	24.836	311.2	.100	5.85	97.7							30
1	33	13.00	12.99	33.046	24.881	307.0	.109	5.84	97.4	4.9	.48	1.4	.46	.48	.28	33
1	44	12.87	12.86	33.153	24.990	296.8	.142	5.58	92.8	5.7	.57	3.5	.15	.27	.31	44
	50 ISL	12.68	12.68	33.195	25.059	290.5	.160	5.38	89.2							50
1	53	12.56	12.55	33.211	25.095	287.0	.168	5.28	87.3	7.3	.70	6.0	.06	.26	.15	53
1	65	11.55	11.54	33.278	25.338	264.1	.201	4.78	77.4	10.5	.96	10.6	.03	.13	.17	65
	75 ISL	11.34	11.33	33.450	25.510	248.0	.228	4.32	69.7							76
1	76	11.33	11.32	33.460	25.520	247.2	.229	4.30	69.4	13.9	1.14	13.6	.02	.12	.15	76
1	91	10.69	10.68	33.663	25.636	236.3	.265	4.27	67.9	15.2	1.23	15.6	.01	.13	.18	91
	100 ISL	10.35	10.33	33.550	25.764	226.4	.287	3.98	62.9							101
1	108	10.07	10.06	33.643	25.883	213.2	.306	3.67	57.7	21.0	1.49	20.1	.01	.11	.12	109
	125 ISL	9.59	9.58	33.755	26.051	197.5	.340	3.30	51.3							126
1	128	9.51	9.49	33.773	26.079	194.9	.346	3.24	50.3	26.0	1.69	23.5	.01	.05	.09	129
	150 ISL	9.08	9.06	33.856	26.213	182.5	.387	3.02	46.5							151
1	156	8.98	8.96	33.872	26.241	179.9	.398	2.99	45.9	30.1	1.82	25.8	.01	.02	.09	157
1	189	8.49	8.47	33.947	26.376	167.6	.455	2.87	43.6	34.2	1.92	27.7	.01			190
	200 ISL	8.29	8.27	33.973	26.427	162.9	.473	2.78	42.1							202
1	221	7.94	7.91	34.012	26.511	155.1	.506	2.60	39.0	40.1	2.05	29.9	.01			222
	250 ISL	7.66	7.61	34.032	26.570	149.9	.551	2.38	35.4							252
1	253	7.61	7.58	34.033	26.575	149.5	.556	2.35	35.0	44.8	2.17	31.6	.01			255
1	296	7.01	6.98	34.059	26.680	139.9	.618	1.96	28.8	52.9	2.34	33.9	.01			298
	300 ISL	6.97	6.94	34.061	26.687	139.3	.623	1.93	28.3							303
1	361	6.46	6.43	34.075	26.767	132.2	.706	1.43	20.7	63.2	2.57	36.8	.00			363
	400 ISL	6.10	6.07	34.089	26.824	127.1	.757	1.18	17.0							404
1	443	5.74	5.70	34.113	26.889	121.2	.810	.95	13.5	75.8	2.79	40.1	.00			446
	500 ISL	5.41	5.37	34.174	26.978	113.3	.877	.67	9.4							504
1	521	5.31	5.26	34.198	27.009	110.4	.901	.58	8.2	87.6	2.95	42.3	.00			525
	600 ISL	4.85	4.80	34.261	27.113	101.0	.984	.41	5.8							606
1	602	4.83	4.78	34.263	27.116	100.7	.986	.41	5.7	99.6	3.05	43.9	.00			607

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 52.6 N	123 33.4 W	02/11/84	2114 GMT		150	04 KT	260 09 10	1	1023.7 MB	13.7 C	10.9 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.96	12.96	32.071	24.133	376.4	.000	6.33	104.8							0
1	1	12.96	12.96	32.071	24.133	377.4	.004	6.33	104.8	4.0	.37	.2	.00	.14	.07	1
	10 ISL	12.96	12.95	32.071	24.135	377.3	.038	6.33	104.8							10
1	11	12.91	12.91	32.073	24.145	376.5	.041	6.35	105.0	4.0	.37	.2	.00	.12	.06	11
	20 ISL	12.98	12.98	32.311	24.315	360.5	.075	6.31	104.6							20
1	26	13.03	13.03	32.488	24.442	348.6	.096	6.27	104.2	3.1	.42	.2	.00	.20	.11	26
	30 ISL	13.01	13.00	32.539	24.487	344.5	.110	6.26	104.0							30
1	41	13.00	12.99	32.643	24.570	336.8	.147	6.21	103.3	2.3	.46	.2	.00	.24	.13	41
	50 ISL	12.90	12.89	32.694	24.629	331.4	.177	6.13	101.8							50
1	56	12.77	12.76	32.733	24.684	326.3	.196	6.02	99.7	3.1	.55	.9	.25	.34	.30	56
1	66	12.39	12.38	32.870	24.864	309.4	.228	5.58	91.7	4.3	.70	3.4	.16	.30	.21	66
	75 ISL	10.93	10.92	33.103	25.314	266.7	.255	5.10	81.4							76
1	76	10.82	10.81	33.121	25.347	263.5	.256	5.07	80.7	9.3	1.07	10.0	.03	.08	.10	76
1	91	10.38	10.37	33.389	25.632	236.7	.294	4.38	69.2	15.0	1.39	15.9	.02	.07	.11	91
	100 ISL	10.07	10.05	33.487	25.762	224.4	.315	4.07	63.9							101
1	105	9.88	9.87	33.535	25.831	218.0	.328	3.91	61.1	19.4	1.61	20.1	.02	.07	.10	106
1	120	9.43	9.42	33.698	26.031	199.2	.359	3.41	52.8	24.6	1.83	23.8	.01	.05	.08	121
	125 ISL	9.35	9.33	33.723	26.066	196.0	.368	3.27	50.6							126
1	145	9.02	9.01	33.793	26.172	186.2	.406	3.24	49.8	27.9	1.92	25.5	.01	.06	.08	146
	150 ISL	8.93	8.91	33.816	26.206	183.2	.415	3.19	48.9							151
1	165	8.64	8.62	33.883	26.303	174.1	.442	3.05	46.5	31.1	1.97	26.6	.01	.02	.04	166
1	185	8.40	8.38	33.940	26.385	166.7	.476	3.02	45.8	33.8	2.01	27.6	.01			186
	200 ISL	8.26	8.24	33.964	26.425	163.1	.501	2.90	43.8							202
1	206	8.20	8.18	33.970	26.438	161.9	.510	2.84	42.9	36.2	2.14	29.0	.01			207
1	236	7.83	7.81	34.003	26.519	154.6	.557	2.67	40.0	40.0	2.22	30.3	.01			237
	250 ISL	7.65	7.63	34.016	26.555	151.3	.579	2.60	38.7							252
1	275	7.35	7.32	34.034	26.613	146.1	.617	2.43	36.0	46.5	2.35	31.9	.01			277
	300 ISL	7.07	7.05	34.052	26.666	141.4	.653	2.11	31.1							303
1	336	6.71	6.68	34.075	26.734	135.2	.702	1.62	23.6	57.4	2.64	36.2	.01			338
	400 ISL	6.15	6.12	34.113	26.837	126.0	.786	1.11	16.0							403
1	411	6.06	6.02	34.118	26.853	124.5	.800	1.05	15.1	69.2	2.91	39.8	.00			414
1	488	5.40	5.36	34.149	26.959	114.8	.891	.70	9.9	80.8	3.05	42.2	.00			491
	500 ISL	5.32	5.28	34.156	26.974	113.5	.906	.66	9.3							504
1	565	5.09	5.04	34.199	27.036	108.1	.977	.48	6.7	88.8	3.17	43.6	.00			569

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 44.0 N	123 54.4 W	02/11/84	1703 GMT	3862 M	290	07 KT	330 09 11	1	1023.9 MB	12.9 C	9.7 C	7/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.80	12.80	31.867	24.006	382.7	.000	6.42	105.8							0
1	1	12.80	12.80	31.867	24.006	389.5	.004	6.42	105.8	4.2	.30	.1	.00	.12	.08	1
	10 ISL	12.80	12.80	31.886	24.020	388.4	.039	6.42	105.8							10
1	12	12.82	12.82	31.960	24.074	383.2	.046	6.41	105.7	4.3	.31	.1	.00	.12	.08	12
	20 ISL	12.95	12.95	32.304	24.316	360.4	.076	6.32	104.7							20
1	27	13.05	13.04	32.601	24.527	340.5	.100	6.22	103.5	2.6	.41	.1	.00	.14	.10	27
	30 ISL	13.03	13.03	32.651	24.569	335.5	.111	6.18	102.9							30
1	42	12.94	12.93	32.664	24.597	334.2	.151	6.07	100.8	3.3	.47	.2	.20	.33	.22	42
	50 ISL	13.00	12.99	32.715	24.625	331.8	.178	6.05	100.6							50
1	58	13.06	13.06	32.768	24.654	329.3	.203	6.02	100.3	3.1	.48	.3	.27	.36	.26	58
1	68	11.84	11.83	32.949	25.029	293.7	.234	5.57	90.5	5.2	.75	4.8	.07	.17	.18	68
	75 ISL	11.20	11.19	33.015	25.197	277.8	.255	5.39	86.5							76
1	78	11.02	11.01	33.033	25.243	273.5	.263	5.34	85.3	7.9	.91	7.9	.03	.12	.14	78
1	94	10.49	10.48	33.186	25.455	253.5	.305	4.87	77.0	11.9	1.18	12.3	.02	.06	.10	94
	100 ISL	10.24	10.23	33.276	25.568	243.0	.320	4.70	74.0							101
1	108	9.93	9.91	33.390	25.710	229.6	.341	4.49	70.2	16.0	1.38	16.3	.02	.03	.09	109
1	124	9.52	9.50	33.510	25.871	214.5	.376	4.11	63.7	20.1	1.57	19.6	.01	.03	.07	125
	125 ISL	9.50	9.49	33.514	25.877	213.9	.377	4.11	63.7							126
1	149	8.92	8.91	33.678	26.098	193.3	.427	3.97	60.8	23.9	1.67	21.9	.02	.03	.05	150
	150 ISL	8.91	8.89	33.686	26.106	192.6	.428	3.95	60.4							151
1	170	8.66	8.65	33.862	26.283	176.1	.465	3.26	49.7	30.1	1.93	26.1	.01	.01	.04	171
1	191	8.43	8.41	33.940	26.380	167.1	.501	2.95	44.8	33.8	2.06	27.8	.02			192
	200 ISL	8.30	8.28	33.962	26.418	163.8	.516	2.95	44.6							202
1	212	8.12	8.10	33.982	26.460	160.0	.535	2.95	44.5	36.2	2.07	28.4	.01			213
1	243	7.70	7.67	33.998	26.535	153.2	.583	2.93	43.7	40.6	2.15	29.4	.01			244
	250 ISL	7.60	7.57	34.001	26.552	151.6	.594	2.87	42.7							252
1	284	7.16	7.13	34.014	26.625	145.0	.645	2.51	37.0	47.7	2.30	32.2	.00			286
	300 ISL	6.96	6.93	34.016	26.654	142.4	.668	2.39	35.1							303
1	346	6.47	6.44	34.027	26.727	135.8	.732	2.03	29.4	57.5	2.53	35.6	.00			348
	400 ISL	6.19	6.16	34.079	26.805	129.0	.803	1.35	19.5							403
1	424	6.09	6.05	34.104	26.838	126.1	.834	1.07	15.4	68.6	2.84	39.5	.00			427
	500 ISL	5.50	5.46	34.147	26.946	116.3	.926	.72	10.2							504
1	503	5.47	5.43	34.149	26.951	115.9	.930	.71	10.1	80.6	3.03	42.0	.00			507
1	582	5.00	4.96	34.188	27.037	108.1	1.018	.56	7.8	90.7	3.11	43.5	.01			586

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
36 22.6 N	124 37.0 W	02/11/84	1111 GMT	4125 M	280 12 KT			1024.8 MB	12.5 C	9.2 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.36	14.36	33.070	24.621	330.8	.000	5.95	102.1							0
1	1	14.36	14.36	33.070	24.621	330.9	.003	5.95	102.1	2.3	.37	.2	.00	.10	.07	1
	10 ISL	14.39	14.39	33.070	24.615	331.8	.033	5.96	102.3							10
1	12	14.39	14.39	33.068	24.613	331.9	.040			2.3	.37	.2	.00	.11	.06	12
	20 ISL	14.40	14.40	33.073	24.616	331.9	.066	5.96	102.2							20
1	27	14.40	14.40	33.077	24.619	331.8	.089	5.97	102.5	2.2	.37	.2	.00	.13	.09	27
	30 ISL	14.41	14.40	33.078	24.619	331.9	.100	5.96	102.4							30
1	43	14.42	14.42	33.079	24.617	332.5	.142	5.94	102.0	2.1	.37	.2	.00	.14	.10	43
	50 ISL	14.41	14.41	33.078	24.618	332.5	.166	5.95	102.2							50
1	58	14.40	14.39	33.078	24.621	332.5	.192	5.96	102.3	2.1	.37	.2	.00	.15	.09	58
1	68	14.39	14.38	33.081	24.626	332.6	.225	5.93	101.7	2.2	.37	.2	.01	.14	.11	68
	75 ISL	14.23	14.21	33.082	24.661	330.0	.249	5.85	100.0							76
1	79	14.03	14.01	33.084	24.704	325.1	.261	5.79	98.6	2.4	.44	1.0	.08	.11	.11	79
1	94	11.87	11.86	33.152	25.181	279.9	.306	5.40	87.9	6.1	.76	6.0	.01	.06	.08	94
	100 ISL	11.38	11.37	33.231	25.332	265.6	.324	5.00	80.6							101
1	108	10.98	10.97	33.340	25.489	250.8	.346	4.52	72.3	10.2	1.03	10.8	.01	.03	.05	109
1	124	10.55	10.53	33.482	25.676	233.3	.384	4.48	71.1	14.1	1.25	14.7	.00	.02	.02	125
	125 ISL	10.53	10.52	33.484	25.680	232.9	.385	4.47	70.8							126
1	150	9.82	9.80	33.577	25.875	214.8	.442	3.89	60.7	20.2	1.59	20.1	.00	.00	.02	151
1	170	9.22	9.20	33.729	26.091	194.5	.483	3.63	56.0	24.3	1.73	22.9	.00	.01	.01	171
1	191	8.88	8.86	33.871	26.256	179.1	.522	3.68	56.4	26.9	1.77	23.6	.01			192
	200 ISL	8.73	8.71	33.910	26.311	174.1	.538	3.74	57.1							202
1	212	8.53	8.51	33.943	26.367	168.9	.558	3.83	58.2	29.0	1.79	23.8	.01			213
1	243	8.09	8.07	33.977	26.461	160.4	.608	3.97	59.8	31.5	1.74	24.3	.01			244
	250 ISL	7.97	7.95	33.981	26.482	158.5	.620	3.91	58.7							252
1	283	7.45	7.42	33.992	26.566	150.7	.672	3.42	50.7	40.0	2.00	27.6	.00			285
	300 ISL	7.24	7.21	34.002	26.604	147.3	.697	3.13	46.2							303
1	346	6.72	6.69	34.026	26.694	139.1	.762	2.34	34.1	52.9	2.41	33.5	.00			348
	400 ISL	6.10	6.06	34.039	26.786	130.7	.835	1.74	25.1							403
1	424	5.84	5.80	34.044	26.822	127.3	.867	1.55	22.1	67.6	2.72	38.5	.00			427
	500 ISL	5.21	5.17	34.078	26.924	118.0	.960	1.10	15.5							504
1	503	5.20	5.16	34.080	26.928	117.7	.963	1.09	15.3	79.4	2.92	41.2	.00			506
1	580	4.96	4.92	34.161	27.020	109.6	1.050	.64	9.0	88.8	3.07	43.0	.00			584

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
36 07.6 N	125 20.5 W	02/11/84	0511 GMT		310 12 KT	300 09 09	1	1025.8 MB	12.5 C	9.0 C	6/8 CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.43	14.43	33.087	24.619	331.0	.000	5.94	102.0							0
1	1	14.43	14.43	33.087	24.619	331.1	.003	5.94	102.0	1.7	.39	.1	.00	.11	.06	1
	10 ISL	14.45	14.44	33.087	24.617	331.5	.033	6.03	103.5							10
1	11	14.45	14.44	33.087	24.617	331.6	.036	6.03	103.6	1.7	.39	.0	.00	.11	.06	11
	20 ISL	14.44	14.44	33.086	24.617	331.9	.066	6.01	103.3							20
1	26	14.44	14.44	33.085	24.616	332.0	.086	5.99	102.9	1.7	.39	.0	.00	.11	.07	26
	30 ISL	14.44	14.44	33.085	24.617	332.1	.099	5.99	102.8							30
1	42	14.43	14.42	33.082	24.618	332.3	.139	5.98	102.7	1.7	.38	.1	.00	.11	.08	42
	50 ISL	14.41	14.41	33.080	24.619	332.4	.166	5.97	102.5							50
1	57	14.40	14.39	33.079	24.621	332.5	.188	5.97	102.5	1.6	.38	.1	.00	.13	.08	57
1	67	14.40	14.39	33.082	24.625	332.4	.221	5.98	102.6	1.6	.39	.1	.00	.14	.09	67
	75 ISL	14.39	14.38	33.082	24.627	332.3	.249	5.97	102.4							76
1	78	14.35	14.34	33.083	24.635	331.7	.258	5.94	101.8	1.6	.40	.1	.02	.14	.11	78
1	93	12.89	12.88	33.336	25.129	285.0	.304	5.68	94.6	3.6	.56	2.7	.03	.09	.18	93
	100 ISL	12.11	12.10	33.326	25.271	271.5	.325	5.47	89.7							101
1	107	11.39	11.38	33.303	25.386	260.6	.344	5.22	84.2	6.8	.87	7.8	.01	.04	.06	108
1	122	10.44	10.43	33.433	25.656	235.1	.381	4.58	72.4	12.7	1.24	14.3	.01	.01	.06	123
	125 ISL	10.33	10.32	33.457	25.694	231.5	.387	4.50	71.0							126
1	148	9.61	9.59	33.652	25.967	205.9	.438	3.95	61.4	19.8	1.57	20.1	.00	.01	.02	149
	150 ISL	9.56	9.54	33.663	25.985	204.3	.442	3.91	60.8							151
1	168	9.07	9.05	33.766	26.145	189.3	.478	3.64	56.0	24.8	1.75	23.2	.00	.00	.02	169
1	189	8.83	8.81	33.895	26.283	176.5	.516	3.57	54.6	27.0	1.79	24.1	.00			190
	200 ISL	8.70	8.68	33.938	26.337	171.6	.535	3.37	51.5							202
1	210	8.57	8.55	33.964	26.378	167.9	.552	3.20	48.7	30.9	1.97	26.1	.01			211
1	240	8.05	8.02	33.988	26.476	158.9	.600	3.28	49.3	33.8	1.88	26.0	.01			241
	250 ISL	7.89	7.87	33.994	26.504	156.3	.617	3.26	48.8							252
1	281	7.46	7.43	34.009	26.578	149.6	.665	3.07	45.6	41.2	2.10	29.2	.00			283
	300 ISL	7.23	7.20	34.014	26.615	146.3	.692	2.88	42.5							303
1	343	6.72	6.69	34.019	26.688	139.7	.753	2.37	34.6	51.9	2.40	33.4	.00			345
	400 ISL	6.08	6.04	34.025	26.777	131.5	.831	1.84	26.5							403
1	420	5.89	5.85	34.034	26.808	128.7	.857	1.66	23.7	65.4	2.67	37.9	.00			423
1	498	5.51	5.47	34.147	26.945	116.4	.952	.79	11.2	78.7	3.01	41.7	.00			501
	500 ISL	5.49	5.45	34.149	26.948	116.1	.955	.60	8.5							504
1	575	5.09	5.05	34.176	27.017	110.1	1.040	.59	8.3	87.8	3.11	43.0	.00			579

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 43.4 N	126 04.2 W	02/10/84	2313 GMT		280	08 KT	300 10 11	1	1024.3 MB	13.2 C	9.5 C	6/8	CC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.03	14.03	32.862	24.530	339.8	.000	6.09	103.6							0
1	1	14.03	14.03	32.862	24.530	339.5	.003	6.09	103.6	1.6	.39	.2	.00	.12	.08	1
	10 ISL	13.93	13.92	32.863	24.552	337.7	.034	6.13	104.0							10
1	12	13.91	13.91	32.863	24.556	337.4	.040	6.13	104.0	1.5	.40	.1	.00	.12	.09	12
	20 ISL	13.90	13.89	32.862	24.558	337.4	.068	6.11	103.7							20
1	27	13.88	13.88	32.861	24.560	337.4	.091	6.09	103.3	1.5	.39	.2	.00	.13	.07	27
	30 ISL	13.88	13.88	32.861	24.561	337.5	.101	6.08	103.2							30
1	42	13.88	13.88	32.864	24.563	337.5	.141	6.07	102.9	1.5	.39	.2	.00	.14	.09	42
	50 ISL	13.88	13.88	32.872	24.569	337.2	.169	6.08	103.1							50
1	58	13.89	13.88	32.879	24.574	336.9	.195	6.09	103.3	1.5	.39	.2	.00	.16	.11	58
1	68	13.88	13.87	32.926	24.613	333.5	.228	6.01	101.9	2.2	.40	.2	.06	.25	.14	68
	75 ISL	13.69	13.68	32.943	24.664	328.8	.253	5.87	99.2							76
1	78	13.56	13.54	32.953	24.699	325.5	.261	5.80	97.7	2.6	.50	1.5	.10	.13	.15	78
1	94	11.52	11.51	33.164	25.255	272.8	.309	5.11	82.6	8.3	.92	8.9	.02	.07	.09	94
	100 ISL	11.19	11.18	33.223	25.360	262.8	.326	4.95	79.4							101
1	109	10.93	10.92	33.288	25.458	253.7	.348	4.76	76.0	11.2	1.13	12.5	.01	.04	.07	109
1	124	10.26	10.24	33.426	25.682	232.6	.387	4.30	67.7	15.7	1.37	16.8	.01	.03	.04	125
	125 ISL	10.24	10.22	33.431	25.689	232.0	.388	4.29	67.6							126
1	149	9.56	9.55	33.619	25.949	207.6	.441	3.90	60.6	22.2	1.90	21.5	.01	.00	.03	150
	150 ISL	9.54	9.53	33.625	25.957	206.9	.443	3.88	60.2							151
1	170	9.09	9.07	33.770	26.145	189.4	.483	3.31	50.9	27.2	1.99	24.7	.01	.00	.02	171
1	191	8.71	8.69	33.876	26.288	176.1	.521	2.96	45.2	31.4	2.10	27.0	.01			192
	200 ISL	8.56	8.54	33.909	26.336	171.6	.537	2.89	43.9							202
1	211	8.40	8.37	33.941	26.386	167.0	.555	2.83	42.9	34.4	2.12	28.2	.01			212
1	242	7.95	7.93	33.988	26.490	157.5	.605	2.74	41.1	38.5	2.17	29.5	.01			243
	250 ISL	7.86	7.83	33.999	26.513	155.5	.618	2.68	40.1							252
1	282	7.53	7.50	34.034	26.588	148.7	.667	2.36	35.1	44.9	2.29	31.7				284
	300 ISL	7.35	7.32	34.049	26.625	145.4	.693	2.17	32.2							303
1	344	6.91	6.88	34.075	26.707	138.0	.755	1.72	25.2	54.6	2.57	35.2				346
	400 ISL	6.29	6.25	34.088	26.800	129.6	.830	1.30	18.8							403
1	422	6.04	6.01	34.090	26.833	126.5	.859	1.17	16.8	67.5	2.82	39.1	.00			425
1	500	5.33	5.29	34.111	26.937	116.9	.955	.82	11.6	80.2	3.02	42.1	.00			503
1	576	5.06	5.02	34.197	27.037	108.2	1.039	.48	6.7	89.6	3.12	43.3	.00			580

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 67 49

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 49.2 N	121 59.1 W	02/11/84	2010 GMT	435 M	120	05 KT	300 02 08	5	1025.4 MB	10.5 C	9.7 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.10	13.10	33.240	25.011	293.7	.000	6.28	105.0							0
1	1	13.10	13.10	33.240	25.011	293.7	.003	6.28	105.0	3.4	.40	.4	.02	1.13	.40	1
	10 ISL	13.06	13.06	33.239	25.019	293.2	.029	6.28	105.0							10
1	11	13.05	13.05	33.239	25.019	293.2	.032	6.29	105.1	3.4	.38	.4	.02	1.25	.50	11
	20 ISL	13.01	13.01	33.239	25.028	293.1	.059	6.29	105.0							20
1	21	13.00	13.00	33.242	25.032	292.4	.061	6.26	104.5	3.5	.39	.5	.03	1.57	.36	21
	30 ISL	12.85	12.84	33.292	25.102	285.9	.088	5.84	97.2							30
1	32	12.81	12.80	33.304	25.119	284.3	.093	5.73	95.3	6.3	.59	3.2	.18	.74	.61	32
1	41	12.56	12.55	33.336	25.193	277.5	.118	5.30	87.7	8.2	.74	5.7	.27	.46	.55	41
	50 ISL	12.45	12.45	33.392	25.256	271.7	.143	4.97	82.1							50
1	52	12.44	12.44	33.401	25.265	270.9	.148	4.93	81.4	10.0	.91	7.6	.24	.28	.60	52
1	62	12.35	12.34	33.428	25.289	268.9	.175	4.86	80.1	10.6	.95	8.3	.24	.34	.44	62
	75 ISL	11.89	11.88	33.445	25.404	258.2	.210	4.54	74.1							76
1	79	11.70	11.69	33.461	25.452	253.7	.219	4.41	71.7	13.7	1.13	11.9	.29	.20	.34	79

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 67 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 46.9 N	122 03.8 W	02/11/84	2218 GMT	444 M	050	04 KT	270 02 07	2	1024.4 MB	12.3 C	9.7 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.98	12.98	33.209	25.010	293.2	.000	6.36	106.1							0
1	1	12.98	12.98	33.209	25.010	293.9	.003	6.36	106.1	2.3	.38	.3	.01	1.13	.44	1
1	10	12.94	12.94	33.209	25.018	293.3	.029	6.39	106.5	2.3	.36	.3	.01	1.27	.48	10
	20 ISL	12.94	12.93	33.214	25.023	293.1	.059	6.19	103.1							20
1	21	12.89	12.88	33.237	25.051	290.5	.061	6.15	102.4	3.0	.43	1.1	.05	1.73	.82	21
	30 ISL	12.56	12.55	33.300	25.164	280.0	.087	5.45	90.1							30
1	32	12.48	12.47	33.313	25.189	277.6	.092	5.30	87.5	7.6	.73	5.6	.29	.51	1.08	32
1	42	12.13	12.12	33.344	25.280	269.2	.119	4.95	81.2	9.2	.86	8.3	.27	.30	.53	42
	50 ISL	11.92	11.91	33.431	25.388	259.1	.141	4.60	75.1							50
1	53	11.86	11.85	33.458	25.419	256.2	.148	4.50	73.4	12.7	1.06	11.2	.23	.16	.42	53
1	62	11.76	11.75	33.475	25.452	253.3	.171	4.40	71.6	13.5	1.10	11.9	.18	.18	.31	62
1	71	11.49	11.48	33.499	25.521	246.9	.193	4.22	68.3	14.8	1.19	13.3	.15	.12	.27	71
	75 ISL	11.40	11.39	33.500	25.537	245.5	.204	4.21	68.0							76
1	87	11.23	11.22	33.502	25.570	242.6	.232	4.20	67.6	14.8	1.21	14.2	.10	.10	.30	87
	100 ISL	11.00	10.98	33.544	25.645	235.8	.264	3.98	63.8							101
1	111	10.72	10.71	33.599	25.737	227.3	.291	3.73	59.4	19.1	1.40	17.5	.11	.10	.26	112
	125 ISL	10.17	10.15	33.689	25.904	211.6	.321	3.46	54.5							126
1	136	9.70	9.68	33.767	26.042	198.6	.344	3.25	50.7	25.5	1.67	22.4	.02	.02	.13	137
	150 ISL	9.39	9.37	33.834	26.146	189.0	.370	3.02	46.8							151
1	166	9.12	9.10	33.891	26.234	180.8	.400	2.81	43.3	31.4	1.88	25.8	.03	.01	.09	167
	200 ISL	8.45	8.43	33.957	26.390	166.4	.459	2.64	40.1							202
1	203	8.40	8.38	33.961	26.402	165.4	.464	2.63	39.9	38.0	2.02	28.3	.00			204
1	236	7.79	7.77	34.020	26.539	152.7	.516	2.38	35.6	43.5	2.16	30.2	.00			237
	250 ISL	7.59	7.57	34.033	26.579	149.2	.538	2.26	33.6							252
1	276	7.31	7.28	34.045	26.627	144.7	.576	2.06	30.5	50.0	2.33	32.4	.00			278
	300 ISL	7.16	7.13	34.055	26.656	142.4	.610	1.97	29.0							303
1	321	7.04	7.01	34.061	26.678	140.5	.640	1.88	27.6	54.6	2.38	33.7	.00			323
1	363	6.67	6.58	34.082	26.752	133.9	.697	1.52	22.1	61.5	2.56	36.1	.00			365

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 67 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 37.2 N	122 24.9 W	02/12/84	1023 GMT	3020 M	020	07 KT			1022.7 MB	13.4 C	10.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.16	13.16	33.240	24.998	295.1	.000	6.18	103.5							0
1	1	13.16	13.16	33.240	24.998	295.0	.003	6.18	103.5	3.4	.38	.5	.05	.68	.24	1
	10 ISL	13.11	13.11	33.240	25.009	294.3	.029	6.19	103.6							10
1	11	13.11	13.11	33.239	25.008	294.3	.032	6.32	105.7	3.5	.40	.4	.04	.66	.19	11
	20 ISL	13.11	13.11	33.242	25.011	294.2	.059	6.17	103.3							20
1	22	13.10	13.10	33.243	25.013	294.1	.064	6.13	102.5	3.6	.40	.5	.05	.58	.28	22
	30 ISL	13.10	13.10	33.246	25.016	294.1	.088	6.06	101.4							30
1	31	13.09	13.09	33.248	25.019	293.8	.091	6.05	101.2	3.9	.43	.9	.07	.58	.26	31
1	40	12.85	12.85	33.294	25.102	286.1	.117	5.63	93.7	5.8	.57	3.4	.20	.44	.39	40
	50 ISL	12.57	12.56	33.335	25.189	278.1	.146	5.25	86.9							50
1	51	12.55	12.54	33.338	25.196	277.4	.148	5.22	86.3	7.8	.74	6.2	.23	.47	.29	51
1	60	12.13	12.12	33.399	25.323	265.6	.172	4.79	78.6	9.9	.91	9.5	.11	.33	.22	60
1	71	11.69	11.68	33.503	25.487	250.2	.200	4.29	69.8	13.4	1.11	12.8	.03	.12	.15	71
	75 ISL	11.56	11.55	33.521	25.525	246.7	.211	4.20	68.2							76
1	85	11.31	11.30	33.542	25.587	240.9	.234	4.10	66.1	15.2	1.21	14.6	.02	.09	.12	85
1	99	10.88	10.86	33.590	25.702	230.3	.269	3.89	62.2	17.4	1.34	16.8	.01	.05	.10	100
	100 ISL	10.86	10.85	33.592	25.706	230.0	.271	3.88	62.0							101
1	119	10.39	10.38	33.673	25.852	216.5	.314	3.57	56.5	20.6	1.48	19.5	.01	.02	.10	120
	125 ISL	10.24	10.23	33.699	25.898	212.2	.326	3.47	54.8							126
1	146	9.66	9.64	33.800	26.075	195.7	.369	3.11	48.5	26.2	1.72	23.5	.01	.01	.08	147
	150 ISL	9.55	9.53	33.820	26.109	192.5	.377	3.05	47.6							151
1	174	8.91	8.89	33.929	26.297	175.0	.421	2.74	42.0	32.1	1.92	26.7	.01			175
	200 ISL	8.51	8.49	33.973	26.395	166.1	.465	2.67	40.6							202
1	205	8.45	8.43	33.977	26.406	165.0	.473	2.67	40.5	36.2	2.02	28.0	.00			206
1	236	8.09	8.07	34.024	26.497	156.8	.522	2.46	37.1	40.3	2.10	29.3	.00			237
	250 ISL	7.95	7.93	34.036	26.528	154.1	.545	2.38	35.7							252
1	275	7.70	7.68	34.050	26.575	149.9	.583	2.22	33.1	45.4	2.22	30.8	.01			277
	300 ISL	7.45	7.42	34.068	26.626	145.3	.620	2.00	29.7							303
1	337	7.03	7.00	34.089	26.701	138.6	.672	1.67	24.6	55.5	2.44	33.9	.01			339
	400 ISL	6.22	6.19	34.093	26.812	128.4	.756	1.27	18.3							403
1	411	6.09	6.06	34.095	26.830	126.6	.771	1.20	17.3	67.9	2.72	37.8	.00			414
1	486	5.61	5.57	34.184	26.961	114.9	.861	.62	8.8	81.9	2.94	39.9	.00			489
	500 ISL	5.54	5.50	34.196	26.980	113.2	.877	.50	7.1							504
1	560	5.31	5.26	34.234	27.039	108.2	.943	.47	6.6	90.1	3.02	41.2	.00			564

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 67 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 27.1 N	122 46.4 W	02/12/84	1608 GMT	2780 M	020	05 KT	280 05 08	5	1023.0 MB	13.6 C	13.2 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.10	13.10	33.175	24.960	299.0	.000	6.20	103.7							0
1	1	13.10	13.10	33.175	24.960	298.6	.003	6.20	103.7	2.6	.36	.1	.01	.64	.30	1
	10 ISL	13.10	13.10	33.211	24.988	296.2	.030	6.35	106.3							10
1	11	13.10	13.10	33.214	24.990	296.0	.033	6.36	106.4	2.8	.36	.1	.01	.62	.28	11
	20 ISL	13.09	13.08	33.218	24.997	295.6	.059	6.30	105.4							20
1	26	13.06	13.05	33.221	25.005	295.0	.077	6.22	103.9	2.9	.37	.2	.02	.76	.27	26
	30 ISL	12.99	12.99	33.243	25.035	292.3	.089	5.99	100.0							30
1	41	12.73	12.72	33.324	25.150	281.6	.120	5.30	88.0	6.4	.65	5.0	.17	.68	.25	41
	50 ISL	12.39	12.38	33.413	25.284	269.0	.145	4.84	79.9							50
1	55	12.21	12.20	33.453	25.351	262.8	.158	4.66	76.6	10.7	.92	9.8	.04	.20	.25	55
1	66	11.87	11.86	33.484	25.439	254.7	.184	4.43	72.3	12.2	1.03	11.7	.03	.16	.19	66
1	75	11.49	11.48	33.546	25.556	243.7	.208	4.14	67.9	14.8	1.16	13.9	.01	.09	.16	75
1	90	10.90	10.89	33.555	25.670	233.1	.244	4.03	64.4	16.1	1.24	15.6	.02	.05	.12	90
	100 ISL	10.76	10.75	33.622	25.747	226.0	.268	3.84	61.2							101
1	105	10.72	10.71	33.661	25.784	222.6	.280	3.72	59.3	19.5	1.41	18.0	.01	.02	.10	106
1	119	10.49	10.47	33.705	25.861	215.7	.311	3.46	54.9	20.6	1.49	19.6	.02	.02	.10	120
	125 ISL	10.26	10.24	33.720	25.912	212.1	.323	3.53	55.7							126
1	144	9.46	9.44	33.725	26.049	198.0	.362	3.68	57.1	22.8	1.54	21.6	.01	.01	.08	145
	150 ISL	9.33	9.32	33.768	26.103	193.0	.373	3.48	53.8							151
1	163	9.13	9.11	33.865	26.212	182.9	.398	3.00	46.2	28.6	1.79	25.7	.01	.00	.05	164
1	185	8.86	8.84	33.912	26.291	175.7	.437	2.95	45.2	30.5	1.83	26.6	.01			186
	200 ISL	8.65	8.63	33.942	26.348	170.5	.463	2.99	45.3							202
1	204	8.59	8.57	33.949	26.363	169.2	.470	2.99	45.5	32.6	1.88	27.2	.01			205
1	232	8.09	8.07	34.013	26.489	157.5	.515	2.65	39.9	38.4	2.01	29.2	.00			233
	250 ISL	7.88	7.85	34.026	26.531	153.8	.544	2.58	38.7							252
1	272	7.66	7.64	34.029	26.565	150.8	.578	2.52	37.6	42.9	2.10	30.6	.00			274
	300 ISL	7.32	7.29	34.043	26.625	145.4	.619	2.24	33.2							303
1	330	6.95	6.92	34.060	26.690	139.5	.661	1.88	27.6	53.5	2.39	34.3	.00			332
	400 ISL	6.34	6.30	34.113	26.815	128.4	.755	1.21	17.4							403
1	404	6.31	6.27	34.116	26.820	127.8	.761	1.17	16.9	66.1	2.69	38.0	.00			407
1	477	5.70	5.66	34.168	26.938	117.0	.849	.72	10.3	79.0	2.88	40.3	.00			480
	500 ISL	5.55	5.50	34.188	26.972	113.9	.876	.61	8.7							504
1	549	5.28	5.24	34.231	27.038	108.0	.931	.44	6.2	90.5	3.02	41.3	.00			553

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 67 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 16.6 N	123 08.1 W	02/12/84	0258 GMT		170	07 KT	330 08 10	5	1021.9 MB	12.7 C	10.3 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.58	13.57	32.701	24.499	342.9	.000	6.13	105.2							0
1	1	13.58	13.57	32.701	24.499	342.6	.003	6.13	103.2	2.7	.37	.2	.00	.10	.05	1
	10 ISL	13.38	13.38	32.700	24.537	339.6	.034	6.27	105.2							10
1	12	13.36	13.36	32.697	24.539	339.0	.041	6.29	105.4	2.4	.38	.2	.00	.13	.05	12
	20 ISL	13.36	13.36	32.718	24.555	337.7	.068	6.29	105.4							20
1	27	13.36	13.36	32.741	24.573	336.2	.091	6.28	105.3	2.4	.37	.2	.00	.12	.06	27
	30 ISL	13.38	13.38	32.769	24.591	334.6	.102	6.25	104.9							30
1	42	13.45	13.45	32.878	24.661	328.2	.141	6.15	103.6	2.4	.39	.2	.01	.18	.09	42
	50 ISL	13.43	13.42	32.904	24.686	326.1	.168	6.14	103.2							50
1	58	13.40	13.39	32.929	24.712	323.8	.193	6.13	103.0	2.9	.42	.2	.07	.32	.13	58
1	73	12.23	12.22	32.971	24.972	299.2	.239	5.58	91.5	5.1	.69	4.3	.12	.15	.14	73
	75 ISL	11.96	11.95	32.992	25.040	292.8	.246	5.49	89.5							76
1	83	11.10	11.09	33.078	25.263	271.6	.268	5.20	83.5	8.4	.93	8.5	.06	.11	.09	83
1	99	10.35	10.33	33.310	25.576	242.1	.308	4.61	72.7	14.0	1.24	14.0	.01	.10	.09	99
	100 ISL	10.30	10.29	33.323	25.594	240.5	.312	4.57	72.1							101
1	113	9.90	9.88	33.471	25.779	223.2	.355	4.18	65.3	18.5	1.47	18.1	.01	.04	.05	119
	125 ISL	9.73	9.71	33.545	25.865	215.2	.369	4.00	62.3							126
1	139	9.37	9.35	33.698	26.043	198.5	.399	3.63	56.2	23.5	1.69	22.4	.01	.03	.05	140
	150 ISL	9.13	9.11	33.768	26.137	189.7	.420	3.44	53.0							151
1	160	8.91	8.89	33.819	26.210	182.9	.438	3.30	50.6	28.2	1.90	25.2	.00	.03	.04	161
1	180	8.54	8.52	33.912	26.341	170.8	.474	3.03	46.1	32.2	2.00	27.0	.00	.02	.04	181
	200 ISL	8.33	8.31	33.948	26.402	165.3	.507	3.07	46.4							202
1	201	8.32	8.30	33.949	26.404	165.1	.509	3.07	46.5	33.9	2.00	27.5	.01			202
1	222	8.04	8.01	33.986	26.476	158.6	.542	2.90	43.6	37.1	2.09	28.9	.00			223
	250 ISL	7.70	7.68	34.010	26.544	152.5	.586	2.82	42.1							252
1	257	7.63	7.60	34.014	26.558	151.2	.598	2.79	41.6	41.2	2.17	30.2	.01			259
	300 ISL	7.25	7.22	34.050	26.640	143.9	.660	2.20	32.5							303
1	309	7.17	7.14	34.056	26.656	142.4	.673	2.05	30.2	49.7	2.44	33.6	.01			311
1	367	6.47	6.44	34.084	26.772	131.8	.752	1.45	21.0	60.5	2.68	37.1	.00			369
	400 ISL	6.15	6.11	34.089	26.819	127.7	.796	1.25	18.0							403
1	454	5.73	5.69	34.101	26.881	122.0	.863	1.01	14.4	73.1	2.90	40.5	.00			457
	500 ISL	5.45	5.40	34.138	26.945	116.4	.918	.76	10.8							504
1	543	5.25	5.20	34.178	27.000	111.4	.967	.56	7.9	84.9	3.11	42.5	.00			547
	600 ISL	5.06	5.01	34.224	27.059	106.4	1.029	.40	5.7							605
1	631	5.00	4.95	34.268	27.085	104.2	1.062	.36	5.0	93.4	3.20	43.6	.00			636

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 67 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 06.8 N	123 29.2 W	02/12/84	0640 GMT	3597 M	170	11 KT	330 08 09	2	1021.7 MB	13.8 C	11.9 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.95	12.95	32.335	24.339	354.3	.000	6.22	103.1							0
1	1	12.95	12.95	32.335	24.339	357.7	.004	6.22	103.1	3.5	.38	.1	.00	.08	.05	1
	10 ISL	12.88	12.87	32.339	24.358	357.2	.036	6.29	104.2							10
1	12	12.87	12.87	32.360	24.375	354.6	.043	6.30	104.3	3.5	.39	.1	.00	.10	.05	12
	20 ISL	12.87	12.87	32.524	24.501	342.8	.171	6.27	103.9							20
1	27	12.88	12.88	32.663	24.607	332.9	.094	6.23	103.4	3.1	.44	.1	.00	.17	.16	27
	30 ISL	12.89	12.89	32.667	24.608	332.9	.104	6.23	103.4							30
1	42	12.90	12.89	32.671	24.611	332.9	.144	6.23	103.4	2.7	.44	.1	.00	.20	.16	42
	50 ISL	12.86	12.86	32.670	24.617	332.6	.171	6.20	102.9							50
1	57	12.83	12.82	32.668	24.623	332.1	.193	6.17	102.2	3.2	.47	.0	.14	.43	.24	57
1	68	12.77	12.76	32.686	24.648	330.0	.230	6.10	101.0	3.3	.49	.4	.23	.36	.21	68
	75 ISL	12.04	12.03	32.748	24.836	312.2	.293	5.75	93.8							76
1	78	11.73	11.72	32.784	24.920	304.2	.261	5.61	90.9	6.1	.75	4.6	.04	.15	.11	78
1	93	10.86	10.85	33.102	25.325	265.9	.304	5.18	82.5	9.4	.99	9.2	.02	.08	.08	93
	100 ISL	10.53	10.52	33.258	25.503	249.1	.323	4.79	75.9							101
1	107	10.27	10.26	33.395	25.656	234.8	.341	4.39	69.2	16.0	1.38	16.2	.01	.05	.08	108
1	122	9.91	9.89	33.549	25.837	217.8	.375	3.88	60.7	20.2	1.61	20.0	.01	.03	.06	123
	125 ISL	9.84	9.82	33.570	25.865	215.2	.380	3.81	59.6							126
1	148	9.25	9.24	33.721	26.079	195.2	.428	3.37	52.0	26.1	1.83	23.8	.01	.01	.04	149
	150 ISL	9.22	9.21	33.732	26.093	194.0	.431	3.34	51.6							151
1	168	8.93	8.91	33.832	26.219	182.3	.466	3.12	47.8	29.9	1.96	25.9	.01	.01	.03	169
1	189	8.47	8.45	33.933	26.369	168.3	.502	2.95	44.8	33.9	2.06	27.6	.01			190
	200 ISL	8.28	8.26	33.960	26.419	163.6	.520	2.97	44.9							202
1	209	8.14	8.12	33.974	26.450	160.8	.535	2.99	45.1	36.6	2.06	28.0	.01			210
1	240	7.75	7.72	34.003	26.532	153.4	.583	2.83	42.3	40.8	2.15	29.6	.00			241
	250 ISL	7.63	7.60	34.009	26.554	151.4	.599	2.83	42.1							252
1	280	7.29	7.27	34.021	26.611	146.4	.644	2.80	41.4	45.6	2.20	30.5	.00			282
	300 ISL	7.08	7.05	34.022	26.641	143.7	.673	2.67	39.3							303
1	342	6.67	6.64	34.025	26.700	138.5	.732	2.25	32.8	54.4	2.46	33.9	.01			344
	400 ISL	6.17	6.14	34.067	26.798	129.6	.810	1.46	21.0							403
1	418	6.04	6.01	34.085	26.829	126.9	.833	1.22	17.5	68.0	2.81	38.9	.00			421
1	496	5.69	5.65	34.162	26.934	117.6	.928	.70	10.0	77.7	3.01	41.1	.00			499
	500 ISL	5.67	5.63	34.166	26.940	117.1	.933	.68	9.7							504
1	572	5.27	5.23	34.218	27.029	109.1	1.014	.46	6.5	87.6	3.13	42.6	.00			576

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 67 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 46.8 N	124 11.3 W	02/12/84	1226 GMT	3953 M	250 17 KT		1	1020.5 MB	14.8 C	14.2 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.40	14.40	33.094	24.632	329.8	.000	5.98	102.7							0
1	1	14.40	14.40	33.094	24.632	329.9	.003	5.98	102.7	2.4	.36	.1	.00	.13	.07	1
	10 ISL	14.42	14.42	33.096	24.628	330.5	.033	6.00	103.0							10
1	12	14.43	14.43	33.096	24.628	330.6	.039	6.00	103.1	2.4	.37	.2	.00	.12	.07	12
	20 ISL	14.43	14.43	33.096	24.628	330.9	.066	5.99	102.9							20
1	27	14.43	14.42	33.095	24.627	331.1	.089	5.98	102.7	2.3	.36	.1	.00	.11	.08	27
	30 ISL	14.42	14.42	33.093	24.627	331.2	.099	5.98	102.7							30
1	42	14.42	14.42	33.092	24.626	331.6	.138	5.98	102.7	2.4	.36	.1	.00	.12	.07	42
	50 ISL	14.41	14.40	33.088	24.627	331.8	.165	5.98	102.7							50
1	57	14.39	14.39	33.085	24.628	331.9	.188	5.99	102.8	2.3	.36	.1	.00	.13	.08	57
1	72	14.39	14.37	33.087	24.632	331.9	.237	6.00	102.9	2.3	.36	.0	.00	.15	.09	72
	75 ISL	14.41	14.40	33.108	24.643	330.9	.248	5.99	102.9							76
1	82	14.42	14.41	33.121	24.651	330.6	.270	5.95	101.8	2.7	.37	.2	.02	.17	.14	82
1	97	12.52	12.51	33.222	25.112	286.6	.316	5.53	91.3	5.5	.64	4.1	.02	.10	.12	97
	100 ISL	12.19	12.18	33.246	25.194	278.8	.326	5.42	88.9							101
1	116	11.03	11.01	33.370	25.505	249.5	.370	4.91	78.6	10.8	1.02	10.7	.02	.03	.05	117
	125 ISL	10.71	10.69	33.446	25.621	238.6	.390	4.69	74.6							126
1	137	10.36	10.34	33.551	25.763	225.2	.419	4.43	70.0	15.6	1.28	15.4	.00	.02	.04	138
	150 ISL	9.86	9.84	33.646	25.922	210.3	.447	4.25	66.5							151
1	157	9.59	9.57	33.696	26.006	202.5	.462	4.18	65.0	20.6	1.49	19.1	.00	.01	.01	158
1	177	9.15	9.13	33.814	26.170	187.1	.500	4.08	62.9	23.7	1.58	21.0	.00	.00	.02	178
1	198	8.65	8.63	33.913	26.325	172.7	.538	3.99	60.8	27.5	1.68	22.9	.00			199
	200 ISL	8.62	8.60	33.922	26.339	171.5	.541	3.97	60.4							202
1	218	8.33	8.30	33.989	26.435	162.5	.571	3.76	56.9	33.2	1.81	25.3	.00			219
	250 ISL	7.87	7.85	33.990	26.503	155.7	.622	3.70	55.5							252
1	254	7.82	7.80	33.995	26.515	155.3	.628	3.70	55.4	36.2	1.86	25.9	.00			255
	300 ISL	7.21	7.18	33.999	26.605	147.2	.698	3.14	46.4							303
1	304	7.15	7.13	33.999	26.613	146.6	.704	3.08	45.4	45.1	2.11	30.1	.00			306
1	361	6.28	6.24	34.002	26.733	135.3	.784	2.34	33.8	57.7	2.46	34.6	.00			363
	400 ISL	6.02	5.98	34.043	26.799	129.4	.836	1.70	24.4							403
1	448	5.87	5.83	34.108	26.870	123.3	.897	1.01	14.4	72.3	2.90	40.0	.00			451
	500 ISL	5.65	5.61	34.168	26.944	116.8	.959	.66	9.4							504
1	535	5.49	5.45	34.202	26.990	112.6	.999	.54	7.7	83.0	3.09	42.3	.00			539
	600 ISL	5.10	5.05	34.241	27.068	105.6	1.070	.50	7.0							605
1	624	4.92	4.87	34.248	27.094	103.1	1.095	.40	5.6	95.1	3.18	44.0	.00			629

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 67 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 26.5 N	124 55.0 W	02/12/84	1813 GMT		250 10 KT	290 10 11	1	1021.5 MB	15.3 C	14.6 C	7/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.18	14.18	32.961	24.575	335.3	.000	6.04	103.1							0
1	1	14.18	14.18	32.961	24.575	335.3	.003	6.04	103.1	2.4	.38	.0	.00	.13	.07	1
	10 ISL	14.19	14.19	32.961	24.573	335.7	.034	5.95	101.6							10
1	12	14.19	14.19	32.961	24.573	335.8	.040	5.94	101.5	2.4	.38	.0	.00	.12	.07	12
	20 ISL	14.22	14.21	32.963	24.570	336.3	.067	5.96	101.8							20
1	27	14.24	14.23	32.967	24.569	336.6	.090	6.00	102.6	2.4	.36	.0	.00	.13	.08	27
	30 ISL	14.22	14.22	32.981	24.583	336.4	.101	6.02	103.0							30
1	43	14.22	14.21	32.985	24.587	335.3	.144	6.03	103.0	3.1	.37	.0	.00	.16	.11	43
	50 ISL	14.35	14.34	33.033	24.598	334.6	.168	5.99	102.6							50
1	58	14.43	14.42	33.071	24.609	333.7	.194	5.96	102.3	3.0	.36	.0	.00	.28	.15	58
1	68	14.22	14.21	33.033	24.625	332.4	.227	6.06	103.6	3.2	.39	.2	.04	.26	.15	68
	75 ISL	13.49	13.48	32.999	24.748	320.8	.251	5.82	97.9							76
1	79	13.03	13.02	32.998	24.840	312.1	.262	5.64	94.0	5.0	.59	3.1	.03	.15	.15	79
1	94	10.98	10.97	33.226	25.401	258.8	.305	4.90	78.3	11.8	1.08	11.7	.01	.05	.06	94
	100 ISL	10.57	10.56	33.314	25.540	245.6	.321	4.65	73.6							101
1	109	10.26	10.25	33.414	25.673	233.2	.344	4.36	68.7	15.9	1.35	16.6	.00	.03	.05	110
1	124	9.97	9.95	33.492	25.783	223.0	.378	4.17	65.3	18.5	1.47	18.7	.00	.02	.04	125
	125 ISL	9.95	9.94	33.496	25.789	222.4	.379	4.16	65.1							126
1	150	9.34	9.32	33.689	26.040	198.9	.452	3.65	56.4	24.5	1.71	23.3	.00	.01	.03	151
1	171	8.96	8.95	33.824	26.206	183.5	.472	3.29	50.5	28.5	1.85	25.3	.00	.00	.02	172
1	191	8.64	8.62	33.892	26.310	173.9	.508	3.18	48.5	31.3	1.92	26.7	.00			192
	200 ISL	8.50	8.47	33.919	26.354	169.9	.523	3.11	47.2							202
1	212	8.31	8.28	33.948	26.406	165.1	.543	3.03	45.8	34.9	1.99	28.2	.00			213
1	243	7.84	7.81	33.993	26.511	155.5	.592	3.13	46.9	38.5	2.03	28.7	.00			244
	250 ISL	7.74	7.72	34.000	26.530	153.8	.604	3.09	46.2							252
1	284	7.35	7.33	34.020	26.602	147.3	.656	2.75	40.7	45.4	2.21	31.2	.00			286
	300 ISL	7.16	7.13	34.030	26.637	144.1	.678	2.51	37.0							303
1	346	6.61	6.58	34.055	26.752	135.5	.743	1.80	26.7	57.8	2.57	36.6	.00			348
	400 ISL	6.15	6.11	34.085	26.816	128.0	.814	1.29	18.6							403
1	424	5.97	5.94	34.097	26.847	125.1	.845	1.14	16.3	69.6	2.81	40.2	.00			427
	500 ISL	5.40	5.36	34.131	26.944	116.4	.938	.84	11.9							504
1	502	5.39	5.35	34.131	26.946	116.2	.938	.84	11.9	81.0	2.98	42.5	.00			505
1	580	4.87	4.82	34.184	27.049	106.8	1.025	.57	8.0	92.4	3.07	44.3	.00			584

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 67 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 06.6 N	125 35.9 W	02/13/84	0010 GMT		250	09 KT	290 09 10	1	1020.2 MB	15.4 C	14.7 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.16	14.16	32.905	24.536	339.0	.000	6.00	102.4	2.6	.40	.0	.00	.10	.05	0
1	10	13.91	13.90	32.885	24.573	335.7	.034	6.11	103.7	2.5	.41	.0	.00	.10	.05	10
	20 ISL	13.91	13.90	32.893	24.579	335.4	.067	6.10	103.4							20
1	26	13.91	13.90	32.902	24.587	334.8	.087	6.07	103.0	2.5	.40	.0	.00	.12	.04	26
	30 ISL	13.89	13.88	32.899	24.589	334.8	.101	6.07	103.0							30
1	41	13.83	13.83	32.895	24.597	334.3	.137	6.08	103.0	2.5	.41	.0	.00	.23	.10	41
	50 ISL	13.84	13.84	32.913	24.609	333.5	.168	6.06	102.7							50
1	56	13.86	13.85	32.937	24.624	332.2	.187	6.03	102.3	2.7	.40	.0	.01	.29	.13	56
1	66	13.43	13.42	32.963	24.731	322.1	.219	5.78	97.2	3.6	.51	1.6	.11	.18	.14	66
	75 ISL	11.84	11.83	33.136	25.174	280.0	.247	5.17	84.1							76
1	76	11.72	11.71	33.151	25.208	276.8	.249	5.12	83.1	8.4	.91	8.5	.02	.09	.10	76
1	91	10.84	10.83	33.312	25.492	250.1	.288	4.69	74.8	12.3	1.15	12.8	.01	.04	.08	91
	100 ISL	10.51	10.49	33.381	25.604	239.5	.311	4.44	70.4							101
1	106	10.34	10.33	33.416	25.660	234.3	.325	4.31	68.0	16.1	1.37	16.5	.00	.03	.05	106
1	120	9.81	9.80	33.523	25.833	218.1	.358	3.97	62.0	19.4	1.55	19.4	.00	.01	.02	121
	125 ISL	9.68	9.66	33.561	25.885	213.2	.368	3.86	60.1							126
1	144	9.21	9.19	33.713	26.080	195.0	.407	3.46	53.3	25.5	1.78	23.6	.00	.00	.02	145
	150 ISL	9.11	9.09	33.747	26.123	191.0	.419	3.39	52.1							151
1	163	8.89	8.87	33.816	26.211	182.8	.443	3.22	49.3	28.8	1.87	25.4	.00	.00	.02	164
1	183	8.50	8.48	33.924	26.357	169.3	.478	2.79	42.4	34.3	2.08	28.2	.00			184
	200 ISL	8.31	8.29	33.955	26.410	166.5	.506	2.79	42.2							202
1	202	8.29	8.27	33.956	26.414	166.1	.510	2.77	41.9	35.6	2.10	28.7	.00			203
1	230	7.82	7.79	34.013	26.529	153.5	.554	2.58	38.6	41.2	2.20	30.6	.01			231
	250 ISL	7.58	7.56	34.017	26.566	149.9	.585	2.56	38.1							252
2	279	7.31	7.28	34.019	26.607	146.7	.628	2.52	37.3	46.3	2.30	32.2	.00			281
	300 ISL	7.10	7.07	34.031	26.646	143.3	.658	2.30	33.9							303
2	341	6.67	6.64	34.057	26.725	136.1	.715	1.79	26.1	57.4	2.60	36.1	.00			343
	400 ISL	5.90	5.86	34.073	26.837	125.7	.792	1.26	18.1							403
2	418	5.68	5.65	34.080	26.870	122.7	.815	1.15	16.4	72.4	2.88	40.7	.00			421
2	496	5.26	5.22	34.152	26.978	113.0	.906	1.01	14.2	83.3	3.06	42.7	.00			499
	500 ISL	5.24	5.20	34.156	26.983	112.5	.911	.99	14.0							504
2	574	4.86	4.82	34.205	27.066	105.1	.992	.52	7.3	93.3	3.16	44.2	.00			578

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 70 51

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 10.9 N	121 43.6 W	02/13/84	0900 GMT	342 M	080	03 KT			1022.0 MB	12.3 C	12.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.23	13.23	33.270	25.008	295.0	.000	5.93	99.5							0
1	1	13.23	13.23	33.270	25.008	294.1	.003	5.93	99.5	4.8	.50	1.9	.11	.92	.19	1
	10 ISL	12.99	12.99	33.301	25.080	287.5	.029	5.80	96.8							10
1	11	12.98	12.97	33.304	25.085	287.0	.032	5.78	96.5	5.8	.62	3.6	.15	.86	.27	11
	20 ISL	12.89	12.89	33.324	25.117	284.1	.058	5.55	92.5							20
1	22	12.87	12.87	33.330	25.126	283.3	.063	5.49	91.4	6.5	.72	5.1	.17	.51	.33	22
	30 ISL	12.58	12.58	33.382	25.223	274.3	.086	5.10	84.4							30
1	32	12.50	12.50	33.394	25.248	272.1	.091	5.01	82.8	8.0	.86	7.8	.09	.29	.22	32
1	42	12.15	12.14	33.419	25.335	263.9	.117	4.78	78.4	9.4	.96	9.6	.05	.16	.18	42
	50 ISL	11.95	11.94	33.480	25.420	256.0	.139	4.51	73.7							50
1	52	11.90	11.90	33.493	25.439	254.4	.143	4.45	72.7	12.2	1.09	11.7	.05	.12	.15	52
1	61	11.59	11.58	33.524	25.522	246.7	.166	4.25	69.0	13.4	1.21	13.3	.04	.09	.17	61
1	72	11.31	11.30	33.566	25.606	238.9	.192	4.04	65.2	14.9	1.30	14.8	.03	.10	.12	72
	75 ISL	11.26	11.25	33.573	25.621	237.5	.200	4.00	64.4							76
1	87	11.04	11.03	33.603	25.683	231.9	.227	3.85	61.8	16.6	1.40	16.5	.03	.07	.12	87
	100 ISL	10.45	10.44	33.679	25.846	216.6	.257	3.56	56.4							101
1	101	10.38	10.37	33.687	25.865	214.8	.261	3.53	55.9	21.2	1.52	19.5	.03	.05	.10	102
1	125	9.83	9.82	33.769	26.022	200.3	.310	3.25	50.8	24.7	1.66	22.2	.00	.02	.07	126
1	146	9.44	9.42	33.854	26.153	188.3	.351	2.93	45.5	28.8	1.82	24.5	.00	.00	.07	147
	150 ISL	9.37	9.36	33.865	26.173	186.4	.358	2.88	44.7							151
1	181	8.89	8.87	33.936	26.306	174.2	.414	2.60	39.9	34.5	1.99	27.1	.01			182
	200 ISL	8.72	8.70	33.969	26.359	169.6	.446	2.51	38.6							202
1	215	8.59	8.56	33.991	26.396	166.2	.471	2.45	37.3	37.1	2.08	28.7	.00			216
	250 ISL	7.97	7.94	34.039	26.528	154.1	.528	2.16	32.4							252
1	257	7.80	7.77	34.048	26.560	151.1	.539	2.08	31.1	45.7	2.28	31.7	.00			259

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 70 53

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 06.9 N	121 52.1 W	02/13/84	1213 GMT	821 M	120	05 KT			1020.7 MB	13.0 C	12.5 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.50	13.50	33.279	24.960	298.6	.000	6.17	104.1	2.8	.37	.2	.04	1.63	.64	0
	10 ISL	13.49	13.49	33.279	24.963	298.5	.030	6.17	104.1							10
1	11	13.49	13.49	33.279	24.963	298.5	.033	6.18	104.2	2.7	.38	.2	.04	1.37	.71	11
	20 ISL	13.49	13.49	33.282	24.966	298.6	.060	6.17	104.0							20
1	26	13.49	13.49	33.284	24.967	298.7	.077	6.15	103.7	2.8	.40	.2	.05	1.38	.79	26
	30 ISL	13.47	13.47	33.321	25.000	295.7	.090	6.00	101.3							30
1	43	13.23	13.22	33.448	25.147	281.9	.126	5.37	90.2	6.2	.64	4.5	.29	.58	.40	43
	50 ISL	12.87	12.87	33.486	25.247	272.6	.146	4.96	82.7							50
1	56	12.55	12.54	33.510	25.329	265.0	.162	4.65	77.0	10.2	.93	9.4	.09	.17	.28	56
1	68	11.95	11.95	33.561	25.482	250.6	.193	4.23	69.2	13.2	1.11	12.5	.04	.13	.26	68
	75 ISL	11.74	11.73	33.586	25.542	245.1	.211	4.09	66.6							76
1	77	11.70	11.69	33.591	25.553	244.1	.215	4.06	66.1	14.8	1.21	13.9	.04	.11	.26	77
1	92	11.12	11.11	33.628	25.689	231.6	.250	3.78	60.8	17.3	1.33	16.4	.02	.04	.18	92
	100 ISL	10.82	10.81	33.663	25.768	224.0	.269	3.63	58.0							101
1	106	10.63	10.62	33.691	25.824	218.8	.284	3.53	56.2	19.5	1.48	19.0	.02	.04	.12	107
1	123	10.26	10.25	33.743	25.928	209.3	.320	3.34	52.7	21.8	1.60	21.1	.02	.02	.11	124
	125 ISL	10.21	10.20	33.748	25.942	208.0	.323	3.33	52.4							126
1	147	9.48	9.46	33.819	26.119	191.5	.368	3.18	49.4	25.5	1.74	23.9	.01	.00	.09	148
	150 ISL	9.41	9.39	33.825	26.135	190.0	.373	3.14	48.6							151
1	167	9.02	9.01	33.869	26.232	181.0	.405	3.13	48.1	28.2	1.81	25.1	.02	.00	.08	168
1	186	8.63	8.61	33.971	26.375	167.8	.438	2.75	41.9	33.7	1.98	27.5	.01			187
	200 ISL	8.41	8.39	34.003	26.433	162.4	.461	2.62	39.7							202
1	207	8.32	8.29	34.010	26.453	160.6	.472	2.58	39.1	37.1	2.05	28.7	.01			208
1	236	7.97	7.95	34.035	26.524	154.2	.517	2.46	37.0	40.6	2.16	30.0	.01			237
	250 ISL	7.74	7.72	34.045	26.565	150.4	.539	2.34	35.0							252
1	275	7.35	7.33	34.060	26.633	144.2	.576	2.09	31.0	48.4	2.31	32.8	.01			277
	300 ISL	7.12	7.10	34.077	26.679	140.2	.611	1.84	27.2							303
1	335	6.87	6.84	34.098	26.731	135.6	.660	1.51	22.1	58.2	2.55	35.3	.00			337
	400 ISL	6.30	6.26	34.141	26.840	125.8	.745	1.01	14.6							403
1	410	6.21	6.18	34.147	26.856	124.3	.757	.95	13.7	70.5	2.81	38.5	.00			413
1	484	5.68	5.63	34.181	26.951	115.8	.846	.66	9.4	80.2	2.96	40.9	.01			487
	500 ISL	5.56	5.52	34.195	26.976	113.6	.864	.60	8.5							504
1	559	5.19	5.14	34.261	27.073	104.7	.929	.37	5.2	92.8	3.09	42.4	.00			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 70 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 52.9 N	122 21.8 W	02/13/84	1837 GMT	2780 M	200	09 KT	300 04 09	2	1020.7 MB	15.2 C	13.0 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.46	13.46	33.181	24.893	305.0	.000	6.13	103.3							0
1	1	13.46	13.46	33.181	24.893	304.9	.003	6.13	103.3	2.4	.36	.1	.00	.28	.08	1
	10 ISL	13.41	13.41	33.180	24.902	304.4	.030	6.32	106.4							10
1	11	13.41	13.41	33.179	24.902	304.4	.033	6.33	106.5	2.4	.38	.0	.00	.32	.09	11
	20 ISL	13.39	13.39	33.181	24.908	304.1	.061	6.25	105.2							20
1	27	13.36	13.36	33.181	24.913	303.8	.082	6.15	103.4	2.4	.38	.0	.01	.67	.22	27
	30 ISL	13.30	13.29	33.182	24.927	302.5	.091	6.07	101.8							30
1	42	12.87	12.86	33.212	25.036	292.5	.126	5.61	93.6	4.7	.58	3.1	.24	.47	.35	42
	50 ISL	12.34	12.33	33.286	25.196	277.4	.150	5.11	84.1							50
1	57	11.89	11.89	33.351	25.330	264.8	.168	4.74	77.3	9.3	.94	9.7	.06	.25	.27	57
1	66	11.51	11.50	33.395	25.436	254.9	.191	4.55	73.6	10.9	1.04	11.7	.03	.15	.19	66
	75 ISL	11.15	11.14	33.428	25.527	246.4	.215	4.41	70.9							76
1	77	11.08	11.07	33.434	25.543	244.9	.219	4.39	70.6	12.7	1.14	13.6	.02	.08	.14	77
1	93	10.32	10.31	33.526	25.750	225.5	.256	4.02	63.5	16.4	1.34	17.3	.01	.03	.11	93
	100 ISL	10.08	10.07	33.588	25.838	217.3	.273	3.81	59.9							101
1	107	9.89	9.88	33.648	25.917	209.9	.288	3.62	56.7	20.6	1.54	20.6	.01	.00	.13	108
1	123	9.54	9.53	33.734	26.042	198.2	.321	3.37	52.4	23.7	1.66	22.9	.01	.00	.08	124
	125 ISL	9.51	9.50	33.743	26.054	197.2	.324	3.35	52.0							126
1	147	9.12	9.11	33.841	26.194	184.3	.367	3.05	47.0	28.0	1.82	25.3	.01	.00	.07	148
	150 ISL	9.07	9.05	33.852	26.211	182.7	.372	3.01	46.3							151
1	166	8.78	8.76	33.907	26.300	174.5	.400	2.82	43.1	31.2	1.93	27.0	.01	.00	.06	167
1	186	8.55	8.53	33.954	26.373	167.9	.434	2.75	41.8	33.4	1.97	27.8	.00			187
	200 ISL	8.46	8.44	33.975	26.402	165.3	.458	2.69	40.9							202
1	208	8.41	8.38	33.984	26.419	163.9	.471	2.66	40.3	35.1	2.00	28.3	.00			209
1	238	7.81	7.79	34.023	26.538	152.8	.518	2.62	39.2	40.5	2.08	29.7	.00			239
	250 ISL	7.63	7.61	34.034	26.573	149.7	.537	2.51	37.4							252
1	275	7.33	7.30	34.049	26.628	144.7	.574	2.23	33.0	47.0	2.25	32.3	.00			277
	300 ISL	7.04	7.01	34.054	26.672	140.8	.609	2.05	30.2							303
1	335	6.66	6.63	34.057	26.726	135.9	.657	1.81	26.4	56.3	2.44	34.8	.00			337
	400 ISL	6.05	6.01	34.098	26.839	125.7	.742	1.13	16.3							403
1	408	5.98	5.94	34.104	26.852	124.5	.753	1.05	15.1	69.9	2.76	38.8	.00			411
1	483	5.34	5.30	34.134	26.954	115.2	.842	.73	10.3	82.3	2.93	41.1	.00			486
	500 ISL	5.25	5.21	34.147	26.975	113.3	.862	.66	9.4							504
1	556	5.11	5.06	34.204	27.037	107.9	.924	.47	6.6	90.1	3.02	42.3	.00			560

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 42.8 N	122 43.7 W	02/14/84	0329 GMT		320	25 KT	290 08 08	1	1018.8 MB	13.7 C	11.9 C	5/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.30	13.30	32.563	24.447	347.6	.000	6.16	103.0							0
1	1	13.30	13.30	32.563	24.447	347.5	.003	6.16	103.0	3.4	.40	.0	.00	.11	.05	1
	10 ISL	13.35	13.35	32.610	24.473	345.2	.035	6.28	105.2							10
1	12	13.36	13.36	32.625	24.484	344.3	.041	6.29	105.4	3.3	.40	.0	.00	.12	.05	12
	20 ISL	13.36	13.36	32.707	24.547	338.4	.069	6.24	104.7							20
1	26	13.36	13.36	32.776	24.600	333.5	.089	6.19	103.8	2.8	.41	.0	.00	.17	.10	26
	30 ISL	13.38	13.38	32.819	24.629	330.9	.102	6.20	104.0							30
1	40	13.39	13.39	32.914	24.701	324.4	.134	6.20	104.1	3.4	.44	.0	.00	.19	.11	40
	50 ISL	13.14	13.13	32.965	24.791	316.0	.167	6.00	100.2							50
1	54	12.95	12.95	32.976	24.837	311.7	.179	5.89	98.0	4.1	.55	1.6	.18	.26	.16	54
1	64	12.12	12.11	33.013	25.026	293.9	.209	5.59	91.5	5.6	.71	4.4	.07	.13	.12	64
1	74	11.71	11.70	33.040	25.123	284.9	.238	5.48	88.9	6.7	.79	5.7	.06	.11	.11	74
	75 ISL	11.63	11.62	33.049	25.144	282.8	.242	5.44	88.1							76
1	83	10.91	10.90	33.187	25.382	260.4	.276	4.99	79.6	10.6	1.06	10.4	.02	.06	.06	88
	100 ISL	10.49	10.48	33.387	25.612	238.8	.307	4.66	73.7							101
1	102	10.46	10.44	33.411	25.636	236.5	.310	4.62	73.1	13.9	1.24	14.1	.02	.02	.04	102
1	116	10.27	10.26	33.531	25.762	224.9	.345	4.30	67.8	16.8	1.38	16.4	.02	.02	.04	117
	125 ISL	10.10	10.08	33.602	25.846	217.1	.364	3.98	62.6							126
1	140	9.75	9.73	33.714	25.992	203.4	.396	3.44	53.7	24.2	1.75	22.2	.03	.02	.03	141
	150 ISL	9.53	9.51	33.770	26.073	195.9	.415	3.28	50.9							151
1	159	9.34	9.32	33.811	26.136	190.0	.433	3.18	49.2	28.0	1.88	24.6	.01	.01	.05	160
1	179	9.07	9.05	33.859	26.218	182.6	.470	3.04	46.8	30.3	1.97	25.6	.01			180
1	199	8.54	8.52	33.945	26.367	168.6	.505	2.85	43.9	34.3	2.05	27.5	.01			200
	200 ISL	8.52	8.50	33.948	26.373	168.1	.507	2.84	43.2							202
1	228	8.13	8.11	34.009	26.480	158.3	.552	2.60	39.2	39.6	2.19	29.3	.00			229
	250 ISL	7.84	7.81	34.028	26.538	153.0	.587	2.52	37.8							252
1	266	7.63	7.61	34.033	26.572	150.0	.612	2.48	37.0	44.4	2.26	31.1	.00			268
	300 ISL	7.28	7.25	34.045	26.632	144.7	.661	2.28	33.7							303
1	326	7.02	6.99	34.054	26.676	140.8	.698	2.07	30.4	52.5	2.49	33.9	.00			328
	400 ISL	6.16	6.12	34.099	26.826	127.0	.797	1.24	17.8							403
1	401	6.14	6.10	34.100	26.828	126.8	.799	1.22	17.6	67.7	2.81	38.9	.00			404
1	477	5.59	5.55	34.140	26.929	117.7	.891	.84	11.9	78.8	2.99	41.4	.00			480
	500 ISL	5.42	5.38	34.153	26.959	115.0	.918	.75	10.6							504
1	554	5.06	5.02	34.181	27.024	109.0	.979	.60	8.4	88.7	3.08	42.9	.00			558

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 32.3 N	123 04.8 W	02/13/84	2323 GMT		270	13 KT	280 07 09	1	1017.2 MB	14.9 C	13.2 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.40	13.40	32.668	24.508	342.1	.000	6.14	103.0							0
1	1	13.40	13.40	32.668	24.508	341.7	.003	6.14	103.0	2.8	.36	.1	.00	.10	.03	1
	10 ISL	13.40	13.40	32.668	24.508	341.8	.034	6.18	103.7							10
1	12	13.41	13.41	32.669	24.507	342.1	.041	6.19	103.8	2.8	.37	.1	.00	.11	.04	12
	20 ISL	13.33	13.33	32.714	24.559	337.3	.068	6.20	103.9							20
1	27	13.25	13.25	32.763	24.611	332.5	.091	6.21	103.9	2.9	.40	.1	.00	.15	.08	27
	30 ISL	13.29	13.28	32.786	24.623	331.5	.102	6.20	103.8							30
1	42	13.30	13.29	32.828	24.654	328.8	.141	6.15	103.0	2.9	.41	.1	.00	.29	.15	42
	50 ISL	13.33	13.33	32.863	24.674	327.2	.167	6.12	102.6							50
1	58	13.37	13.37	32.911	24.703	324.6	.193	6.07	101.9	2.8	.41	.0	.07	.45	.31	58
1	68	13.20	13.19	32.963	24.777	317.8	.225	5.94	99.4	3.2	.46	.8	.22	.30	.22	68
	75 ISL	12.67	12.66	32.999	24.910	305.2	.247	5.70	94.4							76
1	78	12.46	12.45	33.019	24.966	300.0	.255	5.60	92.3	4.8	.66	3.7	.11	.14	.15	78
1	93	12.03	12.02	33.243	25.221	276.0	.298	5.04	82.4	8.7	.90	8.2	.04	.09	.14	98
	100 ISL	11.76	11.75	33.344	25.351	263.9	.318	4.76	77.5							101
1	107	11.47	11.46	33.429	25.470	252.7	.338	4.51	73.0	12.0	1.13	12.5	.02	.07	.11	108
1	123	10.93	10.92	33.521	25.639	236.9	.377	4.14	66.2	15.2	1.32	15.6	.02	.04	.10	124
	125 ISL	10.85	10.83	33.531	25.662	234.7	.381	4.11	65.6							126
1	148	9.66	9.64	33.683	25.984	204.3	.432	3.62	56.4	23.0	1.67	21.6	.02	.02	.07	149
	150 ISL	9.62	9.60	33.696	26.001	202.8	.435	3.57	55.5							151
1	168	9.31	9.29	33.816	26.144	189.4	.471	3.10	47.9	27.3	1.89	24.7	.04	.01	.06	169
1	188	8.89	8.87	33.888	26.268	177.9	.507	3.14	48.1	30.2	1.93	25.7	.01			189
	200 ISL	8.74	8.71	33.927	26.323	172.9	.528	3.02	46.2							202
1	209	8.64	8.62	33.951	26.357	169.8	.543	2.93	44.7	33.4	2.03	27.1	.00			210
1	240	8.17	8.15	33.994	26.462	160.3	.594	3.00	45.3	36.5	2.04	28.0	.00			241
	250 ISL	8.06	8.04	34.004	26.487	158.0	.611	2.95	44.3							252
1	279	7.74	7.72	34.020	26.546	152.8	.655	2.73	40.8	41.5	2.17	30.0	.00			280
	300 ISL	7.37	7.34	34.013	26.594	148.4	.687	2.60	38.6							303
1	339	6.69	6.66	33.997	26.675	140.8	.744	2.36	34.4	53.0	2.44	33.7	.00			341
	400 ISL	6.01	5.97	34.026	26.787	130.6	.827	1.80	25.9							403
1	413	5.90	5.86	34.036	26.808	128.6	.844	1.67	23.9	66.2	2.70	38.2	.00			416
1	490	5.49	5.45	34.107	26.915	119.1	.938	.97	13.8	77.6	2.98	41.3	.00			493
	500 ISL	5.43	5.39	34.116	26.930	117.8	.951	.90	12.8							504
1	563	5.03	4.98	34.174	27.023	109.3	1.022	.64	9.0	88.9	3.13	43.3	.00			567

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 12.0 N	123 47.0 W	02/13/84	1658 GMT	4171 M	230	22 KT	250 07 10	2	1019.4 MB	15.3 C	14.4 C	8/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.70	14.70	33.144	24.606	332.3	.000	5.91	102.1	2.2	.36	.2	.00	.11	.05	0
1	10	14.73	14.73	33.142	24.599	333.2	.033	5.88	101.6	2.2	.39	.2	.00	.10	.06	10
	20 ISL	14.76	14.75	33.152	24.601	333.3	.067	5.88	101.8							20
1	25	14.77	14.76	33.154	24.601	333.6	.083	5.89	101.9	2.2	.40	.2	.00	.13	.07	25
	30 ISL	14.79	14.79	33.161	24.601	333.6	.100	5.89	101.9							30
1	40	14.82	14.81	33.170	24.604	333.7	.133	5.89	102.0	2.1	.39	.2	.00	.13	.08	40
	50 ISL	14.76	14.76	33.156	24.604	333.9	.167	5.92	102.4							50
1	55	14.73	14.72	33.148	24.605	334.0	.183	5.93	102.5	2.1	.39	.1	.00	.13	.07	55
1	69	14.67	14.66	33.137	24.609	334.1	.229	5.93	102.4	2.1	.39	.1	.00	.14	.07	69
	75 ISL	14.87	14.86	33.200	24.616	333.6	.250	5.89	102.1							76
1	79	14.94	14.93	33.233	24.625	332.8	.262	5.86	101.8	2.2	.39	.2	.01	.16	.13	79
1	94	14.02	14.01	33.349	24.911	305.9	.310	5.69	97.0	3.2	.48	1.5	.07	.18	.17	94
	100 ISL	13.26	13.24	33.330	25.051	292.6	.329	5.55	93.2							101
1	113	11.77	11.75	33.301	25.316	267.5	.367	5.24	85.2	7.1	.84	7.1	.01	.06	.07	114
	125 ISL	11.44	11.42	33.393	25.449	255.1	.397	5.06	81.7							126
1	133	11.35	11.34	33.469	25.524	248.2	.418	4.93	79.6	9.1	.98	9.9	.01	.03	.06	134
	150 ISL	10.73	10.71	33.540	25.691	232.5	.458	4.59	73.1							151
1	154	10.55	10.53	33.556	25.736	228.5	.468	4.49	71.2	14.0	1.25	14.6	.01	.01	.02	155
1	174	9.84	9.82	33.682	25.953	207.8	.511	3.93	61.4	20.0	1.58	20.1	.01	.01	.01	175
1	194	9.32	9.29	33.807	26.137	190.7	.551	3.65	56.4	24.2	1.79	22.7	.01			195
	200 ISL	9.15	9.13	33.838	26.187	186.0	.562	3.58	55.2							202
1	214	8.81	8.79	33.898	26.289	176.4	.587	3.46	52.9	28.1	1.84	24.8	.00			215
1	250	8.25	8.22	33.981	26.441	162.5	.648	3.35	50.6	33.1	1.97	26.7	.00			251
	300 ISL	7.38	7.35	34.028	26.604	147.4	.726	2.68	39.7							303
1	301	7.36	7.33	34.029	26.608	147.1	.728	2.66	39.4	44.4	2.25	31.1	.00			303
1	359	6.76	6.73	34.068	26.722	136.7	.809	1.82	26.6	55.1	2.61	35.4	.01			361
	400 ISL	6.30	6.26	34.081	26.793	130.2	.864	1.44	20.8							403
1	447	5.83	5.79	34.097	26.865	123.6	.924	1.13	16.1	70.4	2.89	39.9	.00			450
	500 ISL	5.48	5.44	34.138	26.940	116.8	.988	.82	11.6							504
1	536	5.30	5.26	34.170	26.987	112.6	1.029	.65	9.2	82.5		42.3	.01			540
	600 ISL	5.04	4.99	34.228	27.066	105.8	1.099	.45	6.3							605
1	626	4.95	4.90	34.253	27.094	103.2	1.127	.40	5.6	93.3	3.16	43.7	.00			631

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 53.2 N	124 31.4 W	02/13/84	1117 GMT	4330 M	250	13 KT	280 07 09	1	1020.0 MB	14.8 C	13.9 C	6/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.91	13.91	32.844	24.541	337.6	.000	6.09	103.3							0
1	1	13.91	13.91	32.844	24.541	338.5	.003	6.09	103.3	2.4	.38	.0	.00	.09	.05	1
	10 ISL	13.90	13.90	32.844	24.543	338.4	.034	6.09	103.3							10
1	12	13.85	13.85	32.845	24.553	337.7	.040	6.08	103.1	2.4	.38	.0	.00	.10	.06	12
	20 ISL	14.49	14.48	33.058	24.587	334.7	.067	5.99	103.0							20
1	27	15.11	15.10	33.268	24.615	332.2	.090	5.90	102.8	2.7	.33	.1	.00	.10	.05	27
	30 ISL	15.24	15.23	33.312	24.620	331.9	.101	5.88	102.8							30
1	42	15.54	15.54	33.404	24.625	331.8	.140	5.82	102.4	2.9	.31	.1	.00	.10	.06	42
	50 ISL	15.70	15.69	33.464	24.637	331.0	.167	5.79	102.3							50
1	57	15.78	15.77	33.500	24.646	330.3	.189	5.78	102.3	2.8	.29	.1	.00	.14	.10	57
1	68	15.83	15.82	33.524	24.655	329.8	.226	5.76	102.0	2.8	.29	.1	.00	.16	.11	68
	75 ISL	14.94	14.83	33.455	24.819	314.3	.249	5.75	99.8							76
1	78	14.36	14.35	33.419	24.893	307.3	.257	5.72	98.3	2.9	.39	.9	.08	.23	.20	78
1	93	11.63	11.62	33.144	25.219	276.2	.301	5.12	83.0	8.3	.91	8.3	.02	.08	.10	93
	100 ISL	10.86	10.84	33.187	25.392	259.8	.321	4.97	79.1							101
1	109	10.27	10.26	33.284	25.569	243.1	.342	4.83	76.1	13.2	1.18	13.1	.01	.03	.03	109
1	123	9.64	9.62	33.371	25.743	226.6	.377	4.51	70.1	17.9	1.38	16.8	.01	.01	.03	124
	125 ISL	9.50	9.48	33.395	25.785	224.5	.381	4.48	69.4							126
1	149	9.49	9.47	33.770	26.080	195.2	.432	3.94	61.2	22.6	1.55	20.6	.02	.00	.01	150
	150 ISL	9.47	9.46	33.776	26.087	194.5	.433	3.91	60.6							151
1	169	9.06	9.04	33.883	26.237	180.7	.469	3.12	48.0	29.4	1.87	25.3	.01			170
1	190	8.74	8.72	33.939	26.332	171.9	.506	3.09	47.2	32.3	1.96	26.3	.01			191
	200 ISL	8.57	8.55	33.962	26.376	167.9	.523	3.20	48.7							202
1	212	8.38	8.36	33.984	26.423	163.6	.542	3.31	50.2	34.2	1.92	26.3	.01			213
1	241	8.02	7.99	34.008	26.496	157.0	.589	3.05	45.9	38.3	2.04	27.8	.01			242
	250 ISL	7.88	7.86	34.007	26.515	155.3	.603	3.09	46.3							252
1	282	7.43	7.40	33.997	26.573	150.0	.653	3.22	47.8	42.4	2.04	28.7	.01			284
	300 ISL	7.21	7.18	33.999	26.605	147.3	.679	3.03	44.7							302
1	344	6.76	6.73	34.013	26.679	140.7	.742	2.33	34.0	53.3	2.41	33.7	.01			346
	400 ISL	6.39	6.36	34.061	26.765	132.9	.819	1.56	22.6							403
1	422	6.26	6.22	34.082	26.799	130.0	.848	1.30	18.8	65.8	2.75	38.5	.01			425
	500 ISL	5.62	5.58	34.130	26.917	119.2	.945	.79	11.2							504
1	502	5.61	5.57	34.130	26.919	119.0	.947	.78	11.1	78.0	2.97	41.7	.01			505

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 34.7 N	125 11.4 W	02/13/84	0600 GMT	4264 M	200	06 KT	300 08 10	1	1021.1 MB	15.1 C	14.0 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.15	14.15	32.861	24.505	341.2	.000	5.99	102.2							0
1	1	14.15	14.15	32.861	24.505	342.0	.003	5.99	102.2	2.5	.40	.0	.00	.11	.04	1
	10 ISL	14.11	14.11	32.861	24.513	341.8	.034	6.05	103.1							10
1	12	14.09	14.09	32.860	24.515	341.3	.041	6.06	103.2	2.5	.42	.0	.00	.10	.06	12
	20 ISL	14.02	14.02	32.867	24.537	339.4	.068	6.07	103.3							20
1	27	13.96	13.96	32.874	24.554	337.9	.092	6.08	103.3	2.5	.43	.0	.00	.15	.04	27
	30 ISL	13.95	13.95	32.874	24.556	338.1	.102	6.08	103.3							30
1	42	13.95	13.94	32.873	24.557	338.1	.142	6.07	103.1	2.5	.41	.0	.00	.14	.07	42
	50 ISL	13.91	13.91	32.882	24.571	337.1	.170	6.07	102.9							50
1	58	13.88	13.87	32.890	24.585	335.9	.196	6.06	102.8	2.5	.41	.0	.00	.20	.13	58
1	68	13.84	13.83	32.896	24.598	335.0	.229	6.05	102.5	2.6	.41	.0	.00	.22	.15	68
	75 ISL	13.53	13.52	32.949	24.700	325.3	.255	5.84	98.4							76
1	78	13.36	13.35	32.975	24.756	320.1	.262	5.74	96.4	3.8	.58	1.7	.05	.19	.15	78
1	94	11.58	11.57	33.170	25.248	273.4	.309	5.06	81.9	9.1	.99	9.2	.01	.07	.04	94
	100 ISL	11.08	11.07	33.247	25.399	259.1	.326	4.82	77.2							101
1	109	10.57	10.55	33.339	25.561	243.8	.348	4.53	71.8	13.8	1.29	16.5	.01	.04	.05	109
1	124	10.01	10.00	33.471	25.758	225.3	.385	4.13	64.7	18.1	1.49	18.1	.01	.02	.04	125
	125 ISL	10.00	9.98	33.476	25.765	224.7	.386	4.11	64.5							126
1	149	9.40	9.38	33.664	26.011	201.7	.438	3.56	55.1	24.2	1.75	22.7	.01	.01	.02	150
	150 ISL	9.38	9.36	33.669	26.018	201.0	.439	3.55	55.0							151
1	170	8.90	8.88	33.790	26.190	185.0	.478	3.40	52.1	28.3	1.85	24.6	.01	.00	.02	171
1	191	8.56	8.54	33.874	26.309	174.0	.516	2.95	44.9	33.3	2.07	27.5	.01			192
	200 ISL	8.37	8.35	33.904	26.362	169.1	.531	2.93	44.4							202
1	211	8.15	8.13	33.934	26.418	163.8	.549	2.92	44.0	36.5	2.11	28.6	.01			212
1	242	7.80	7.78	33.979	26.505	156.0	.598	2.61	39.9	40.6	2.20	29.9	.01			243
	250 ISL	7.69	7.67	33.984	26.525	154.2	.611	2.67	39.8							252
1	283	7.23	7.20	33.993	26.598	147.6	.662	2.95	43.6	44.6	2.20	30.2	.01			285
	300 ISL	6.99	6.96	33.995	26.633	144.4	.686	2.84	41.7							302
1	345	6.40	6.37	34.007	26.721	136.3	.749	2.25	32.6	56.8	2.52	34.8	.01			347
	400 ISL	5.97	5.94	34.062	26.820	127.4	.822	1.44	20.6							403
1	424	5.84	5.80	34.089	26.858	124.0	.852	1.11	15.9	71.3	2.87	40.1	.00			427
	500 ISL	5.46	5.42	34.141	26.946	116.3	.943	.66	9.4							504
1	502	5.45	5.41	34.142	26.948	116.1	.945	.66	9.3	81.3	3.04	42.2	.00			505
1	580	5.07	5.02	34.215	27.051	106.9	1.032	.43	6.0	91.7	3.14	43.7	.01			584

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 73 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 38.6 N	121 15.2 W	02/14/84	0858 GMT	35 M	010	04 KT	310 02 06		1021.0 MB	11.3 C	9.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	12.97	12.96	33.421	25.177	279.4	.000	5.61	93.7							0
1	1	12.97	12.96	33.421	25.177	277.9	.003	5.61	93.7	7.5	.70	4.9	.25	1.04	.52	1
	10 ISL	12.97	12.97	33.421	25.177	278.1	.028	5.61	93.8							10
1	11	13.02	13.02	33.420	25.167	279.2	.030	5.66	94.6	7.5	.70	5.0	.26	1.01	.61	11
	20 ISL	13.02	13.02	33.423	25.169	279.2	.056	5.65	94.5							20
1	21	13.02	13.02	33.426	25.170	279.2	.058	5.56	93.0	7.6	.81	5.2	.27	1.04	.51	21

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 73 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 32.6 N	121 28.1 W	02/14/84	1227 GMT	678 M	340	22 KT	310 05 05	1	1020.3 MB	12.7 C	9.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.81	13.81	33.455	25.034	291.5	.000	6.19	105.2							0
1	1	13.81	13.81	33.455	25.034	291.6	.003	6.19	105.2	1.0	.30	.1	.02	1.67	.49	1
1	10	13.82	13.82	33.453	25.030	292.2	.029	6.28	106.8	1.1	.30	.1	.00	1.63	.50	10
1	20	13.82	13.81	33.457	25.031	292.4	.058	6.15	104.5	1.0	.32	.1	.00	1.45	.60	20
1	30	13.76	13.76	33.453	25.042	291.6	.087	6.07	103.1	1.6	.35	.4	.02	1.59	.48	30
1	39	12.59	12.58	33.475	25.294	267.8	.112	4.74	78.6	9.4	.86	8.5	.10	.33	.40	39
1	50	11.72	11.71	33.551	25.518	246.7	.140	4.15	67.5	14.0	1.14	13.4	.02	.12	.23	50
1	60	11.28	11.27	33.606	25.641	235.2	.164	3.92	63.2	16.4	1.29	15.6	.01	.11	.15	60
1	69	10.88	10.87	33.655	25.752	224.8	.185	3.69	59.0	18.7	1.40	17.7	.01	.04	.15	69
	75 ISL	10.77	10.76	33.673	25.786	221.8	.199	3.62	57.7							76
1	85	10.68	10.67	33.693	25.817	219.0	.220	3.55	56.5	20.4	1.49	18.8	.00	.06	.13	85
1	100	10.31	10.30	33.754	25.929	208.7	.254	3.37	53.3	22.7	1.61	20.6	.00	.04	.13	101
1	120	9.95	9.94	33.811	26.034	199.0	.295	3.16	49.6	25.3	1.71	22.4	.00	.02	.12	121
	125 ISL	9.88	9.87	33.822	26.054	197.2	.304	3.12	48.9							126
1	145	9.59	9.58	33.866	26.137	189.7	.343	2.97	46.2	27.9	1.81	24.1	.00	.01	.09	146
	150 ISL	9.51	9.50	33.881	26.162	187.4	.352	2.92	45.4							151
1	175	9.11	9.09	33.954	26.285	176.2	.398	2.70	41.6	32.2	1.95	26.2	.00			176
	200 ISL	8.83	8.81	33.999	26.365	169.0	.441	2.58	39.5							202
1	206	8.77	8.75	34.007	26.381	167.6	.450	2.55	39.0	35.5	2.04	27.4	.00			207
1	236	8.36	8.33	34.055	26.482	158.4	.499	2.29	34.7	40.1	2.16	29.3	.00			237
	250 ISL	8.16	8.14	34.074	26.527	154.4	.522	2.13	32.2							252
1	275	7.82	7.79	34.099	26.597	147.9	.560	1.85	27.7	47.6	2.36	31.6	.00			277
	300 ISL	7.49	7.46	34.115	26.657	142.5	.596	1.64	24.4							303
1	336	7.03	7.00	34.132	26.735	135.4	.645	1.38	20.3	59.5	2.60	34.6	.00			338
	400 ISL	6.25	6.22	34.165	26.865	123.4	.728	.90	13.0							403
1	410	6.14	6.11	34.170	26.884	121.7	.741	.83	12.0	73.9	2.86	38.1	.00			413
1	485	5.59	5.55	34.214	26.988	112.3	.828	.53	7.5	84.8	3.02	40.3	.00			488
	500 ISL	5.47	5.43	34.228	27.013	110.0	.865	.48	6.9							504
1	558	5.05	5.00	34.295	27.116	100.4	.906	.36	5.1	98.1	3.13	41.9	.02			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 73 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 18.5 N	121 57.8 W	02/14/84	1859 GMT	2590 M	350	15 KT	310 04 09	0	1025.4 MB	14.0 C	10.1 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.40	13.40	33.040	24.795	314.3	.000	6.19	104.1							0
1	1	13.40	13.40	33.040	24.795	314.3	.003	6.19	104.1	2.5	.39	.1	.01	.32	.12	1
1	10	13.40	13.40	33.039	24.795	314.5	.031	6.16	103.6	2.5	.36	.2	.00	.31	.17	10
1	20	13.40	13.40	33.040	24.796	314.7	.063	6.14	103.2	2.6	.36	.2	.00	.32	.15	20
1	30	13.40	13.39	33.042	24.799	314.7	.094	6.12	102.9	2.6	.36	.2	.00	.34	.15	30
1	40	13.38	13.38	33.049	24.807	314.2	.125	6.11	102.7	2.7	.37	.2	.01	.37	.18	40
	50 ISL	12.89	12.88	33.169	24.998	296.3	.156	5.70	94.9							50
1	51	12.84	12.83	33.179	25.016	294.6	.159	5.66	94.1	4.7	.54	3.1	.13	.30	.26	51
1	61	12.28	12.27	33.281	25.203	277.0	.187	5.14	84.5	7.8	.79	7.3	.09	.15	.18	61
1	71	11.69	11.68	33.333	25.354	262.8	.214	4.76	77.3	9.6	.97	10.3	.02	.10	.16	71
	75 ISL	11.46	11.45	33.357	25.416	257.0	.225	4.70	76.0							76
1	85	10.96	10.95	33.421	25.555	244.0	.249	4.58	73.3	11.4	1.07	12.8	.01	.06	.09	85
	100 ISL	10.19	10.18	33.568	25.804	220.5	.285	3.96	62.4							101
1	101	10.17	10.15	33.573	25.812	219.7	.286	3.94	62.0	17.7	1.40	18.5	.00	.01	.06	101
1	120	9.65	9.64	33.698	25.997	202.6	.328	3.53	55.0	22.1	1.61	22.0	.00	.00	.04	121
	125 ISL	9.55	9.54	33.729	26.037	198.9	.337	3.46	53.7							126
1	145	9.17	9.15	33.845	26.190	184.6	.376	3.24	50.0	26.8	1.75	24.6	.00	.00	.03	146
	150 ISL	9.08	9.07	33.864	26.219	181.9	.385	3.22	49.6							151
1	176	8.65	8.63	33.937	26.344	170.4	.431	3.22	49.1	30.1	1.83	26.0	.00			177
	200 ISL	8.29	8.27	33.970	26.425	163.1	.471	3.22	48.7							202
1	204	8.24	8.22	33.974	26.436	162.1	.477	3.20	48.4	33.4	1.88	27.0	.00			205
1	235	7.88	7.85	34.009	26.518	154.8	.526	2.81	42.1	38.4	2.03	29.5	.00			236
	250 ISL	7.72	7.69	34.023	26.552	151.7	.549	2.62	39.1							252
1	275	7.45	7.43	34.039	26.603	147.2	.587	2.32	34.4	45.1	2.22	32.0	.00			277
	300 ISL	7.11	7.08	34.045	26.656	142.4	.623	2.10	30.9							303
1	335	6.63	6.60	34.052	26.726	135.8	.671	1.80	26.2	55.9	2.47	35.5	.00			337
	400 ISL	6.08	6.04	34.102	26.838	125.9	.756	1.12	16.1							403
1	408	6.02	5.98	34.109	26.851	124.6	.767	1.04	14.9	69.2	2.79	38.9	.00			411
1	484	5.23	5.19	34.130	26.964	114.1	.857	.73	10.3	83.1	2.96	41.8	.00			487
	500 ISL	5.13	5.09	34.140	26.984	112.3	.875	.67	9.5							504
1	558	4.96	4.92	34.190	27.042	107.2	.939	.50	7.0	91.4	3.06	43.0	.00			562

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 73 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 08.9 N	122 19.7 W	02/14/84	0857 GMT		350	24 KT	310 08 09	1	1021.8 MB	12.8 C	10.4 C	6/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.78	13.78	32.909	24.617	331.1	.000	6.15	104.1							0
1	1	13.78	13.78	32.909	24.617	331.2	.003	6.15	104.1	2.6	.41	.1	.00	.12	.07	1
	10 ISL	13.81	13.81	32.908	24.612	332.0	.033	6.15	104.2							10
1	12	13.81	13.81	32.908	24.611	332.1	.040	6.17	104.5	2.5	.41	.1	.00	.12	.06	12
	20 ISL	13.80	13.80	32.907	24.612	332.2	.066	6.14	104.0							20
1	27	13.79	13.79	32.906	24.614	332.3	.089	6.11	103.5	2.4	.40	.1	.00	.12	.08	27
	30 ISL	13.78	13.78	32.904	24.614	332.5	.100	6.11	103.4							30
1	42	13.78	13.78	32.904	24.615	332.6	.139	6.11	103.4	2.4	.39	.1	.00	.13	.05	42
	50 ISL	13.71	13.70	32.897	24.625	331.9	.166	6.10	103.1							50
1	58	13.58	13.58	32.879	24.635	331.1	.192	6.09	102.7	2.7	.42	.1	.04	.25	.13	58
1	73	13.21	13.20	33.076	24.863	309.7	.240	5.70	95.5	4.1	.56	2.3	.13	.16	.14	73
	75 ISL	12.94	12.93	33.092	24.930	303.4	.247	5.62	93.6							76
1	83	12.02	12.01	33.148	25.149	282.7	.269	5.38	87.9	6.8	.80	6.1	.04	.09	.12	83
1	99	11.52	11.51	33.338	25.390	260.1	.312	5.17	83.7	8.1	.87	8.0	.02	.05	.07	99
	100 ISL	11.44	11.42	33.353	25.419	257.5	.316	5.14	83.0							101
1	118	10.35	10.33	33.514	25.736	227.4	.361	4.75	75.0	13.7	1.18	13.5	.02	.01	.03	119
	125 ISL	10.12	10.11	33.542	25.795	221.9	.375	4.70	73.9							126
1	140	9.74	9.72	33.616	25.918	210.4	.409	4.41	68.8	18.0	1.37	17.6	.02	.01	.02	141
	150 ISL	9.48	9.46	33.731	26.051	198.0	.428	3.80	58.9							151
1	159	9.24	9.22	33.839	26.174	186.4	.446	3.22	49.7	27.9	1.86	24.7	.02	.00	.02	160
1	180	8.72	8.70	33.942	26.338	171.2	.483	2.88	44.0	32.9	2.01	27.4	.02	.00	.02	181
	200 ISL	8.20	8.18	33.981	26.447	160.9	.516	2.89	44.1							202
1	201	8.18	8.16	33.982	26.451	160.6	.518	3.07	46.3	36.0	2.04	28.0	.01			202
1	221	7.94	7.82	33.987	26.505	155.7	.549	3.61	54.1	36.0	1.91	26.5	.01			222
	250 ISL	7.39	7.36	33.991	26.574	149.4	.594	3.53	52.2							252
1	257	7.29	7.27	33.992	26.588	148.2	.604	3.15	46.6	43.1	2.12	29.2	.01			258
	300 ISL	6.86	6.83	34.018	26.668	141.0	.666	2.51	36.7							303
1	308	6.80	6.77	34.024	26.682	139.8	.678	2.38	34.8	52.0	2.37	33.6	.04			310
1	366	6.31	6.28	34.074	26.786	130.4	.756	1.48	21.4	63.0	2.73	38.0	.01			368
	400 ISL	6.06	6.03	34.100	26.838	125.8	.800	1.16	16.7							403
1	453	5.70	5.66	34.135	26.911	119.2	.865	.86	12.3	76.2	2.99	41.4	.01			456
	500 ISL	5.32	5.28	34.160	26.977	113.2	.919	.67	9.5							504
1	542	5.02	4.98	34.183	27.031	108.2	.966	.56	7.9	89.7	3.13	43.6	.00			546
	600 ISL	4.80	4.75	34.233	27.095	102.6	1.027	.43	6.0							605
1	629	4.76	4.71	34.263	27.124	100.1	1.057	.38	5.3	99.8	3.22	44.6	.00			634

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 73 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 58.6 N	122 39.4 W	02/14/84	1304 GMT		340	23 KT	300 09 09	1	1022.6 MB	13.2 C	9.6 C	6/8	SC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	13.80	13.80	32.992	24.677	325.5	.000	6.13	103.9							0
1	2		13.80	13.80	32.992	24.677	325.6	.006	6.13	103.9	2.6	.42	.1	.00	.14	.07	2
	10	ISL	13.81	13.81	32.992	24.675	326.0	.033	6.10	103.5							10
1	12		13.81	13.81	32.991	24.674	326.1	.039	6.10	103.4	2.6	.43	.1	.00	.13	.08	12
	20	ISL	13.81	13.81	32.993	24.676	326.2	.065	6.09	103.3							20
1	27		13.82	13.81	32.994	24.677	326.3	.088	6.09	103.2	2.5	.44	.1	.00	.13	.09	27
	30	ISL	13.82	13.82	33.005	24.685	325.7	.098	6.08	103.1							30
1	43		13.82	13.82	33.071	24.735	321.2	.139	6.05	102.6	2.6	.43	.1	.00	.38	.30	43
	50	ISL	13.81	13.80	33.123	24.778	317.3	.162	6.06	102.8							50
1	58		13.78	13.78	33.171	24.820	313.5	.187	6.07	102.9	3.3	.43	.1	.04	.31	.21	58
1	73		13.68	13.67	33.180	24.849	311.2	.233	5.98	101.2	3.4	.47	.3	.31	.24	.20	73
	75	ISL	13.59	13.58	33.195	24.880	310.1	.240	5.94	100.3							76
1	81		13.56	13.54	33.244	24.925	306.3	.264	5.79	97.8	4.4	.53	1.8	.13	.12	.17	83
1	98		12.23	12.21	33.267	25.204	277.9	.307	5.47	89.8	5.5	.70	4.7	.02	.07	.11	98
	100	ISL	12.06	12.04	33.280	25.245	274.0	.314	5.38	88.0							101
1	118		10.98	10.96	33.422	25.554	244.8	.362	4.60	73.6	12.5	1.17	13.0	.00	.03	.05	119
	125	ISL	10.61	10.59	33.492	25.674	233.5	.378	4.32	68.7							126
1	138		9.95	9.93	33.633	25.897	212.5	.407	3.85	60.3	20.4	1.59	20.0	.01	.01	.02	139
	150	ISL	9.51	9.50	33.721	26.037	199.3	.431	3.65	56.6							151
1	159		9.26	9.25	33.778	26.123	191.3	.449	3.53	54.5	25.4	1.77	23.3	.00	.00	.02	160
1	179		8.98	8.96	33.890	26.256	178.9	.486	3.17	48.7	29.3	1.89	25.2	.01	.00	.02	180
1	200		8.62	8.60	33.966	26.372	168.2	.522	2.97	45.3	33.4	2.03	27.0	.00			201
1	220		8.35	8.33	34.000	26.439	162.1	.555	2.85	43.2	36.3	2.08	28.1	.00			221
	250	ISL	7.89	7.87	34.025	26.527	154.1	.603	2.79	41.8							252
1	256		7.81	7.78	34.028	26.542	152.7	.611	2.77	41.5	41.1	2.17	29.5	.00			257
	300	ISL	7.24	7.21	34.080	26.665	141.6	.677	2.03	30.0							302
1	306		7.17	7.14	34.086	26.679	140.2	.686	1.91	28.2	52.3	2.48	34.0	.01			308
1	363		6.66	6.62	34.105	26.765	132.7	.763	1.43	20.8	60.3	2.74	36.8	.00			365
	400	ISL	6.29	6.26	34.106	26.813	128.3	.811	1.22	17.7							403
1	450		5.82	5.78	34.109	26.876	122.6	.874	1.01	14.4	73.0	2.92	40.3	.00			453
	500	ISL	5.39	5.35	34.132	26.947	116.1	.934	.80	11.4							504
1	543		5.07	5.03	34.161	27.007	110.6	.983	.65	9.1	87.8	3.08	43.1	.00			547
	600	ISL	4.80	4.75	34.210	27.077	104.2	1.044	.48	6.7							605
1	626		4.71	4.66	34.236	27.108	101.5	1.071	.42	5.8	98.6	3.19	44.3	.00			631

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 73 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 38.7 N	123 22.5 W	02/14/84	1857 GMT		360	12 KT	310 11 12	1	1024.4 MB	14.6 C	11.0 C	1/8	CI

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0		14.09	14.09	33.089	24.692	324.1	.000	6.07	103.5	3.2	.41	.2	.00	.14	.09	0
1	10		14.08	14.08	33.089	24.695	324.1	.032	6.10	104.0	3.1	.41	.2	.00	.14	.09	10
	20	ISL	14.06	14.06	33.090	24.700	323.9	.065	6.08	103.6							20
1	26		14.05	14.05	33.090	24.703	323.8	.084	6.06	103.3	3.1	.41	.2	.00	.19	.11	26
	30	ISL	14.05	14.04	33.090	24.704	323.9	.097	6.06	103.2							30
1	41		14.05	14.04	33.092	24.706	324.0	.132	6.05	103.1	3.0	.41	.1	.00	.25	.11	41
	50	ISL	14.04	14.03	33.094	24.709	323.9	.162	6.05	103.1							50
1	57		14.03	14.02	33.096	24.712	323.8	.186	6.05	103.1	3.0	.41	.1	.00	.26	.12	57
1	67		14.03	14.02	33.099	24.715	323.8	.216	6.05	103.1	3.0	.40	.1	.00	.25	.12	67
	75	ISL	13.94	13.93	33.099	24.734	322.3	.243	5.99	101.8							76
1	77		13.92	13.91	33.098	24.738	321.9	.248	5.97	101.5	3.0	.44	.2	.10	.18	.14	77
1	93		13.77	13.75	33.116	24.782	319.1	.299	5.89	99.8	3.8	.46	.7	.14	.12	.13	93
	100	ISL	13.39	13.37	33.184	24.913	305.8	.322	5.70	95.9							101
1	108		12.90	12.89	33.264	25.071	290.9	.345	5.44	90.6	5.8	.68	4.2	.04	.06	.09	108
1	123		11.92	11.90	33.377	25.348	264.7	.389	4.76	77.7	9.8	1.00	9.7	.02	.03	.06	124
	125	ISL	11.86	11.84	33.394	25.372	262.5	.393	4.69	76.5							126
1	148		11.08	11.06	33.618	25.689	232.8	.451	3.89	62.5	17.5	1.42	16.6	.01	.02	.06	149
	150	ISL	10.98	10.96	33.626	25.714	230.4	.455	3.86	61.9							151
1	169		9.88	9.86	33.710	25.968	206.4	.497	3.61	56.5	22.5	1.67	21.0	.01	.01	.02	170
1	190		9.39	9.37	33.852	26.161	188.3	.538	3.18	49.3	27.7	1.86	24.4	.01			191
	200	ISL	9.18	9.16	33.894	26.226	182.3	.556	3.05	47.1							202
1	210		8.99	8.97	33.922	26.279	177.4	.574	3.00	46.1	31.1	1.98	26.0	.01			211
1	242		8.35	8.33	33.960	26.409	165.4	.629	3.48	52.7	32.3	1.90	25.6	.01			243
	250	ISL	8.22	8.19	33.974	26.440	162.6	.642	3.38	51.1							252
1	282		7.76	7.73	34.026	26.549	152.6	.693	2.74	41.0	41.6	2.17	29.8	.00			284
	300	ISL	7.50	7.47	34.038	26.596	148.3	.720	2.52	37.5							302
1	345		6.97	6.84	34.055	26.696	139.0	.784	2.06	30.2	53.4	2.50	34.2	.00			347
	400	ISL	6.28	6.25	34.089	26.802	129.4	.858	1.42	20.6							403
1	422		6.08	6.04	34.103	26.839	126.0	.887	1.20	17.3	67.5	2.84	39.1	.01			425
	500	ISL	5.45	5.41	34.140	26.946	116.3	.981	.84	11.9							504
1	501		5.44	5.40	34.140	26.947	116.2	.982	.84	11.9	79.5	3.02	41.6	.00			504
1	579		5.18	5.14	34.219	27.041	108.0	1.069	.54	7.6	87.9	3.14	43.0	.00			583

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 73 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 19.1 N	124 02.4 W	02/15/84	0043 GMT		210	06 KT	330 10 11	1	1021.3 MB	13.8 C	10.4 C	4/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.29	14.29	33.100	24.660	327.2	.000	6.06	103.8							0
1	1	14.29	14.29	33.100	24.660	327.2	.003	6.06	103.8	3.3	.40	.0	.00	.15	.07	1
	10 ISL	14.22	14.22	33.097	24.671	326.4	.033	6.22	106.4							10
1	11	14.22	14.21	33.096	24.672	326.3	.036	6.23	106.5	3.3	.40	.0	.00	.16	.08	11
	20 ISL	14.12	14.12	33.095	24.691	324.8	.065	6.18	105.5							20
1	27	14.06	14.06	33.094	24.703	323.8	.088	6.10	104.0	3.3	.40	.0	.00	.18	.10	27
	30 ISL	14.05	14.05	33.094	24.705	323.9	.098	6.09	103.8							30
1	42	14.05	14.05	33.095	24.707	323.9	.136	6.06	103.3	3.3	.40	.0	.00	.23	.10	42
	50 ISL	14.02	14.01	33.096	24.715	323.4	.162	6.05	103.0							50
1	58	13.99	13.98	33.097	24.721	322.9	.187	6.04	102.8	3.3	.43	.0	.03	.27	.13	58
1	68	13.68	13.67	33.123	24.805	315.2	.219	5.92	100.1	3.6	.47	.6	.19	.18	.14	68
	75 ISL	13.15	13.14	33.239	25.001	296.7	.242	5.51	92.3							76
1	78	12.94	12.93	33.288	25.082	289.0	.249	5.34	89.0	7.1	.73	5.0	.03	.11	.13	78
1	94	11.84	11.83	33.438	25.409	258.2	.293	4.61	75.2	11.8	1.08	11.0	.02	.07	.09	94
	100 ISL	11.52	11.51	33.479	25.500	249.6	.309	4.38	70.9							101
1	108	11.17	11.16	33.523	25.597	240.5	.330	4.14	66.6	15.3	1.33	15.1	.01	.03	.08	109
1	123	10.69	10.68	33.588	25.734	227.8	.365	3.91	62.2	17.5	1.47	17.5	.01	.01	.10	124
	125 ISL	10.65	10.64	33.599	25.749	226.4	.369	3.87	61.6							126
1	149	10.11	10.09	33.745	25.957	207.1	.421	3.34	52.5	23.2	1.73	21.5	.01	.00	.05	150
	150 ISL	10.08	10.07	33.748	25.963	206.5	.423	3.33	52.4							151
1	170	9.44	9.42	33.811	26.120	191.8	.463	3.15	48.8	27.0	1.86	24.6	.01	.01	.04	171
1	190	9.03	9.01	33.880	26.240	180.7	.500	3.03	46.6	29.8	1.96	26.1	.01			191
	200 ISL	8.85	8.83	33.912	26.293	175.8	.518	2.99	45.7							202
1	211	8.68	8.66	33.943	26.344	171.1	.536	2.93	44.7	33.4	2.01	27.1				212
1	242	8.30	8.27	34.001	26.449	161.6	.588	2.61	39.5	36.8	2.11	28.6	.00			243
	250 ISL	8.18	8.16	34.010	26.473	159.3	.601	2.60	39.3							252
1	283	7.73	7.70	34.038	26.563	151.2	.653	2.59	38.7	43.1	2.23	30.5	.00			285
	300 ISL	7.52	7.49	34.051	26.604	147.6	.678	2.41	35.9							302
1	345	7.00	6.97	34.082	26.701	138.7	.742	1.80	26.4	54.1	2.54	34.8	.00			347
	400 ISL	6.49	6.45	34.124	26.802	129.5	.816	1.22	17.8							403
1	423	6.31	6.27	34.140	26.839	126.3	.846	1.03	14.9	67.1	2.85	39.0	.00			426
	500 ISL	5.82	5.78	34.183	26.934	117.8	.939	.67	9.6							504
1	501	5.82	5.78	34.183	26.935	117.7	.940	.67	9.6	76.8	3.02	41.4	.00			504
1	578	5.27	5.22	34.217	27.029	109.2	1.028	.48	6.8	87.1	3.12	43.3	.00			582

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 73 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 56.8 N	124 45.8 W	02/15/84	0631 GMT		240	16 KT	300 08 10	1	1022.2 MB	14.8 C	12.3 C	6/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.32	15.32	33.328	24.615	331.4	.000	5.85	102.5							0
1	1	15.32	15.32	33.328	24.615	331.5	.003	5.85	102.5	2.6	.34	.0	.00	.06	.05	1
	10 ISL	15.32	15.32	33.328	24.615	332.1	.033	5.91	103.6							10
1	12	15.33	15.33	33.328	24.612	332.2	.040	5.92	103.7	2.5	.35	.0	.00	.06	.04	12
	20 ISL	15.31	15.31	33.328	24.616	331.9	.066	5.90	103.4							20
1	27	15.29	15.29	33.328	24.622	331.7	.089	5.88	102.9	2.3	.35	.0	.00	.07	.04	27
	30 ISL	15.27	15.26	33.321	24.621	331.8	.100	5.88	102.9							30
1	42	15.26	15.26	33.316	24.619	332.4	.139	5.90	103.2	2.4	.35	.0	.00	.08	.05	42
	50 ISL	15.37	15.36	33.349	24.622	332.4	.166	5.88	103.1							50
1	57	15.45	15.44	33.375	24.624	332.4	.188	5.86	102.9	2.3	.35	.0	.00	.11	.08	57
1	67	15.43	15.42	33.377	24.630	332.0	.222	5.85	102.7	2.3	.35	.0	.00	.12	.09	67
	75 ISL	15.43	15.42	33.386	24.638	331.6	.249	5.83	102.3							76
1	77	15.42	15.41	33.414	24.661	329.4	.255	5.82	102.2	2.5	.35	.0	.01	.15	.13	77
1	92	14.66	14.65	33.524	24.911	306.3	.302	5.70	98.6	3.3	.40	.7	.10	.19	.19	92
	100 ISL	14.38	14.36	33.595	25.026	295.3	.327	5.70	98.2							101
1	107	14.18	14.17	33.641	25.103	288.1	.346	5.71	97.9	3.3	.41	1.1	.06	.12	.17	107
1	121	13.65	13.63	33.680	25.244	275.0	.388	5.50	93.3	4.5	.50	2.6	.03	.08	.14	122
	125 ISL	13.44	13.42	33.686	25.291	270.7	.398	5.44	91.9							126
1	146	11.96	11.94	33.690	25.583	243.0	.453	5.01	82.0	8.7	.83	8.3	.01	.02	.03	147
	150 ISL	11.68	11.66	33.680	25.628	238.8	.462	4.92	80.1							151
1	166	10.55	10.53	33.654	25.811	221.4	.499	4.51	71.6	14.9	1.22	14.7	.00	.01	.02	167
1	187	9.67	9.65	33.736	26.023	201.5	.543	3.95	61.5	21.1	1.59	20.0	.00			188
	200 ISL	9.44	9.42	33.830	26.136	190.9	.568	3.52	54.6							202
1	207	9.35	9.33	33.879	26.188	186.1	.581	3.33	51.6	26.7	1.82	23.8	.00			208
1	237	8.84	8.81	33.938	26.317	174.3	.635	3.49	53.4	29.0	1.83	24.6	.00			238
	250 ISL	8.57	8.55	33.960	26.375	169.0	.658	3.63	55.3							252
1	276	8.06	8.03	33.995	26.480	159.1	.701	3.78	56.9	34.0	1.82	25.2	.00			278
	300 ISL	7.68	7.65	34.014	26.552	152.6	.738	3.36	50.1							302
1	336	7.17	7.14	34.033	26.638	144.6	.792	2.48	36.6	48.6	2.33	31.9	.00			338
	400 ISL	6.39	6.36	34.058	26.763	133.2	.880	1.72	24.8							403
1	412	6.27	6.23	34.063	26.783	131.3	.897	1.61	23.2	62.7	2.69	37.4	.00			415
1	487	5.77	5.72	34.125	26.896	121.2	.991	.92	13.1	74.4	2.93	40.7	.00			490
	500 ISL	5.69	5.65	34.137	26.915	119.5	1.007	.83	11.9							504
1	562	5.38	5.34	34.192	26.996	112.3	1.079	.58	8.2	84.7	3.07	42.5	.00			566

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 77 51

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 01.3 N	120 55.2 W	02/15/84	1350 GMT	243 M	320	15 KT	320 03 12		1022.0 MB	13.8 C	11.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.63	13.63	33.497	25.102	285.0	.000	5.75	97.4							0
1	1	13.63	13.63	33.497	25.102	285.1	.003	5.75	97.4	4.5	.49	2.2	.12	1.55	.12	1
	10 ISL	13.64	13.63	33.496	25.101	285.5	.029	5.89	99.7							10
1	11	13.64	13.63	33.495	25.100	285.5	.031	5.89	99.8	4.5	.50	2.2	.12	.85	.18	11
	20 ISL	13.64	13.64	33.496	25.100	285.8	.057	5.83	98.8							20
1	21	13.64	13.64	33.496	25.101	285.8	.060	5.82	98.6	4.4	.50	2.2	.12	1.46	.28	21
	30 ISL	13.64	13.64	33.495	25.099	286.2	.086	5.76	97.6							30
1	32	13.64	13.64	33.495	25.099	286.2	.091	5.75	97.4	4.4	.50	2.2	.12	1.32	.49	32
1	42	13.63	13.63	33.495	25.102	286.3	.119	5.75	97.4	4.2	.50	2.2	.13	1.36	.56	42
	50 ISL	13.62	13.61	33.491	25.101	286.2	.143	5.74	97.2							50
1	52	13.57	13.56	33.490	25.111	285.7	.148	5.68	96.1	4.4	.53	2.7	.15	1.05	.52	52
1	63	12.63	12.62	33.495	25.302	267.7	.178	4.82	80.0	8.8	.85	8.5	.22	.32	.48	63
1	73	11.85	11.85	33.547	25.490	250.0	.204	4.21	68.7	12.8	1.11	13.2	.10	.14	.24	73
	75 ISL	11.63	11.62	33.572	25.551	244.2	.210	4.07	66.1							76
1	88	10.58	10.57	33.709	25.846	216.4	.239	3.45	54.8	20.4	1.50	19.6	.22	.04	.19	88
	100 ISL	10.27	10.26	33.756	25.936	208.0	.265	3.37	53.1							101
1	108	10.21	10.19	33.769	25.958	206.1	.283	3.24	51.1	23.5	1.64	21.9	.04	.04	.14	109
	125 ISL	9.75	9.73	33.846	26.096	195.3	.316	2.96	46.3							126
1	128	9.66	9.65	33.861	26.122	190.8	.322	2.91	45.4	27.9	1.81	24.5	.04	.03	.16	129
1	148	9.36	9.34	33.905	26.207	183.2	.359	2.79	43.2	30.3	1.91	26.0	.04	.02	.11	149
	150 ISL	9.33	9.31	33.909	26.215	182.4	.362	2.77	42.9							151
1	177	8.87	8.85	33.975	26.339	171.0	.410	2.49	38.2	35.7	2.07	27.9	.03			178
	200 ISL	8.49	8.47	34.028	26.440	161.8	.448	2.29	34.8							202
1	205	8.42	8.39	34.039	26.460	159.9	.456	2.25	34.1	40.3	2.20	29.6	.01			206

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 77 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 53.3 N	121 11.9 W	02/15/84	1826 GMT	369 M	300	09 KT	290 02 09	1	1023.0 MB	15.5 C	10.1 C	6/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.90	13.90	33.480	25.033	291.6	.000	6.08	103.6							0
1	1	13.90	13.90	33.480	25.033	291.6	.003	6.08	103.6	2.3	.37	.0	.01	2.56	.32	1
	10 ISL	13.88	13.88	33.478	25.036	291.6	.029	6.27	106.8							10
1	11	13.88	13.88	33.478	25.036	291.6	.032	6.28	106.9	2.0	.36	.0	.01	2.44	.59	11
1	20	13.86	13.86	33.479	25.042	291.4	.058	6.20	105.5	1.9	.35	.0	.01	2.52	.56	20
	30 ISL	13.86	13.86	33.479	25.042	291.4	.087	6.02	102.4							30
1	31	13.85	13.85	33.478	25.043	291.6	.090	5.99	101.9	2.1	.36	.0	.01	2.59	.62	31
1	41	13.18	13.17	33.456	25.164	280.3	.118	5.28	88.6	6.4	.64	4.5	.18	.75	.47	41
	50 ISL	12.48	12.47	33.489	25.327	265.0	.143	4.67	77.2							50
1	52	12.32	12.32	33.500	25.365	261.4	.148	4.56	75.2	10.4	.96	9.8	.10	.30	.45	52
1	61	11.38	11.37	33.576	25.601	239.1	.171	4.00	64.6	15.4	1.24	14.7	.02	.17	.22	61
1	72	10.79	10.79	33.654	25.766	223.6	.196	3.62	57.8	18.9	1.41	17.9	.01	.06	.19	72
	75 ISL	10.65	10.64	33.675	25.807	219.7	.203	3.54	56.3							76
1	87	10.30	10.29	33.731	25.913	209.9	.228	3.35	52.9	21.9	1.58	20.5	.00	.05	.11	87
	100 ISL	10.13	10.12	33.757	25.962	205.5	.256	3.27	51.6							101
1	101	10.12	10.11	33.759	25.965	205.3	.259	3.27	51.5	23.8	1.65	21.4	.00	.05	.10	102
	125 ISL	9.85	9.84	33.811	26.052	197.5	.306	3.09	48.4							126
1	126	9.83	9.82	33.814	26.057	197.0	.309	3.08	48.2	26.1	1.73	23.0	.00	.03	.11	127
1	146	9.38	9.36	33.897	26.197	184.1	.347	2.82	43.7	29.4	1.88	25.3	.01	.01	.08	147
	150 ISL	9.30	9.29	33.909	26.218	182.1	.354	2.79	43.2							151
1	177	8.81	8.79	33.974	26.348	170.2	.401	2.66	40.7	34.0	1.99	27.6	.00			178
	200 ISL	8.40	8.38	34.015	26.443	161.4	.440	2.57	38.9							202
1	207	8.29	8.26	34.025	26.469	159.0	.450	2.53	38.3	38.9	2.10	29.4	.00			208
1	237	7.75	7.72	34.063	26.579	148.9	.496	2.20	32.9	45.6	2.26	31.8	.00			238
	250 ISL	7.61	7.59	34.072	26.605	146.5	.516	2.08	31.1							252
1	276	7.41	7.38	34.085	26.646	143.1	.554	1.87	27.7	50.6	2.42	33.2	.00			278
	300 ISL	7.17	7.14	34.104	26.694	138.8	.588	1.63	24.0							302
1	336	6.81	6.78	34.132	26.765	132.4	.636	1.28	18.7	61.0	2.66	36.7	.00			338
1	390	6.35	6.32	34.160	26.848	124.9	.706	.93	13.5	68.6	2.82	39.1	.00			393
	400 ISL	6.29	6.25	34.164	26.860	123.9	.718	.89	12.9							403
1	450	6.00	5.96	34.187	26.916	119.1	.779	.72	10.3	76.1	2.94	40.4	.00			453
	500 ISL	5.73	5.68	34.220	26.976	113.8	.837	.55	7.9							504
1	510	5.67	5.63	34.228	26.989	112.7	.849	.52	7.4	83.4	3.03	41.5	.00			514

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 77 56

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 53.9 N	121 16.0 W	02/08/84	2035 GMT	499 M	320	10 KT	320 07 08	1	1017.9 MB	15.0 C	13.0 C	6/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.00	14.00													0
1	1	14.00	14.00											1.18	.66	1
	10 ISL	13.94	13.94													10
1	11	13.94	13.94											1.40	.58	11
	20 ISL	13.94	13.94													20
1	21	13.95	13.95											1.94	.59	21
	30 ISL	13.94	13.94													30
1	31	13.83	13.82											2.27	1.06	31
1	41	12.70	12.70											.66	.42	41
	50 ISL	12.50	12.49													50
1	51	12.49	12.49													51
1	62	11.82	11.81											.48	.28	62
1	71	11.44	11.44											.18	.18	72
	75 ISL	11.29	11.28											.10	.17	76
1	91	10.61	10.61													92
	100 ISL	10.36	10.35											.04	.10	101
1	111	10.09	10.09													112
	125 ISL	9.84	9.83											.02	.06	126
1	132	9.74	9.73													133
	150 ISL	9.57	9.56											.02	.05	151
1	152	9.56	9.55													153
1	173	9.18	9.17											.02	.05	174
1	193	8.88	8.87													195
	200 ISL	8.78	8.76													202
1	213	8.53	8.52													215
1	234	7.97	7.96													236
	250 ISL	7.72	7.71													252
1	255	7.66	7.65													257
1	277	7.43	7.42													279
1	298	7.35	7.33													300
	300 ISL	7.33	7.32													302
1	318	7.16	7.15													321

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 77 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 43.3 N	121 32.9 W	02/15/84	2333 GMT	929 M	260	08 KT	260 02 03		1022.0 MB	13.5 C	12.6 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.03	14.03	33.387	24.935	301.0	.000	6.18	105.5	1.5	.37	.0	.00	.90	.17	0
1	10	13.76	13.76	33.401	25.001	296.9	.030	6.33	107.5	1.1	.38	.0	.00	1.04	.29	10
	20 ISL	13.75	13.75	33.402	25.005	296.7	.059	6.23	105.8							20
1	25	13.72	13.71	33.403	25.013	296.3	.074	6.16	104.5	1.0	.32	.0	.00	1.38	.34	25
	30 ISL	13.73	13.73	33.408	25.015	296.2	.089	6.13	104.0							30
1	40	13.74	13.73	33.414	25.018	296.2	.118	6.12	103.8	1.0	.32	.0	.00	1.36	.38	40
	50 ISL	13.60	13.59	33.419	25.050	291.5	.147	5.81	98.2							50
1	55	13.31	13.30	33.424	25.112	285.6	.161	5.54	93.2	4.0	.55	2.9	.17	.76	.42	55
1	66	12.10	12.09	33.480	25.393	259.1	.191	4.50	73.8	10.9	.99	10.6	.07	.30	.42	66
1	74	11.54	11.53	33.496	25.509	248.1	.211	4.27	69.2	12.8	1.16	13.4	.03	.19	.28	74
	75 ISL	11.49	11.48	33.504	25.524	246.7	.214	4.23	68.5							76
1	91	11.08	11.06	33.632	25.699	230.4	.252	3.78	60.7	17.0	1.33	16.9	.02	.10	.18	91
	100 ISL	10.52	10.51	33.700	25.851	216.1	.273	3.51	55.7							101
1	104	10.26	10.25	33.731	25.920	209.6	.282	3.39	53.5	21.6	1.59	20.9	.02	.05	.19	105
1	119	9.89	9.88	33.824	26.055	197.1	.312	3.12	48.9	25.5	1.72	23.0	.01	.03	.14	120
	125 ISL	9.79	9.78	33.848	26.090	193.8	.323	3.04	47.5							126
1	145	9.50	9.49	33.911	26.188	184.9	.362	2.81	43.7	29.4	1.87	25.1	.01	.01	.11	146
	150 ISL	9.43	9.42	33.924	26.209	183.0	.371	2.77	42.9							151
1	165	9.21	9.19	33.958	26.272	177.3	.398	2.65	40.9	31.3	1.95	26.3	.01	.00	.10	166
1	184	8.95	8.93	33.998	26.344	170.7	.431	2.51	38.6	34.3	2.01	27.7	.01			185
	200 ISL	8.75	8.73	34.024	26.397	166.0	.458	2.43	37.1							202
1	203	8.72	8.69	34.028	26.406	165.2	.462	2.41	36.8	36.1	2.07	28.6	.00			204
1	232	8.32	8.29	34.083	26.510	155.6	.508	2.10	31.8	40.9	2.21	30.6	.00			233
	250 ISL	8.07	8.05	34.105	26.565	150.7	.537	1.97	29.6							252
1	271	7.77	7.75	34.118	26.619	145.8	.568	1.85	27.7	46.8	2.37	32.6	.00			273
	300 ISL	7.26	7.23	34.103	26.681	140.1	.609	1.74	25.8							302
1	331	6.76	6.73	34.085	26.736	135.0	.652	1.62	23.7	57.2	2.53	36.0	.00			333
	400 ISL	6.42	6.38	34.147	26.829	127.0	.742	1.04	15.1							403
1	404	6.41	6.37	34.152	26.835	126.5	.748	1.00	14.5	66.8	2.79	38.5	.00			407
1	480	5.85	5.81	34.217	26.957	115.4	.839	.58	8.3	77.8	2.98	41.3	.00			483
	500 ISL	5.75	5.70	34.231	26.982	113.3	.862	.51	7.3							504
1	555	5.54	5.49	34.257	27.029	109.3	.923	.43	6.1	84.6	3.04	42.2	.00			559

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 77 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 32.8 N	121 54.8 W	02/16/84	1038 GMT		270	15 KT	280 07 11	1	1021.8 MB	13.9 C	12.4 C	6/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.99	13.99	33.442	24.987	296.0	.000	6.22	106.1							0
1	1	13.99	13.99	33.442	24.987	296.1	.003	6.22	106.1	1.3	.34	.3	.00	.86	.29	1
	10 ISL	14.02	14.02	33.445	24.983	296.7	.030	6.14	104.8							10
1	12	14.03	14.03	33.448	24.983	296.7	.035	6.13	104.7	1.3	.35	.3	.00	.82	.29	12
	20 ISL	14.09	14.09	33.475	24.990	296.3	.059	6.13	104.9							20
1	26	14.14	14.13	33.493	24.996	295.9	.077	6.14	105.1	.6	.33	.3	.00	.69	.31	26
	30 ISL	14.13	14.13	33.492	24.996	296.2	.089	6.12	104.7							30
1	41	14.13	14.13	33.491	24.996	296.4	.121	6.11	104.6	.6	.36	.3	.00	.71	.33	41
	50 ISL	13.62	13.62	33.434	25.057	290.8	.148	5.67	96.0							50
1	56	13.10	13.10	33.397	25.133	283.7	.164	5.33	89.2	5.7	.68	4.7	.23	.66	.51	56
1	71	10.99	10.98	33.393	25.529	246.1	.204	4.56	73.0	12.8	1.13	13.1	.05	.09	.17	71
	75 ISL	10.82	10.81	33.427	25.584	241.0	.214	4.44	70.9							76
1	81	10.74	10.73	33.484	25.644	235.3	.228	4.28	68.2	15.0	1.30	15.4	.03	.07	.17	81
1	96	10.32	10.31	33.711	25.893	212.0	.261	3.49	55.2	21.9	1.62	20.3	.02	.02	.09	96
	100 ISL	10.22	10.21	33.745	25.936	208.0	.271	3.37	53.1							101
1	115	9.92	9.91	33.811	26.039	198.5	.302	3.13	49.1	25.9	1.79	22.8	.02	.01	.07	116
	125 ISL	9.75	9.73	33.852	26.101	192.8	.321	2.99	46.7							126
1	135	9.55	9.53	33.887	26.161	187.3	.340	2.89	44.9	29.1	1.92	24.7	.02	.02	.06	136
	150 ISL	9.18	9.17	33.913	26.240	179.9	.367	2.92	45.1							151
1	155	9.06	9.05	33.921	26.266	177.5	.376	2.94	45.2	31.3	1.97	26.0	.01	.01	.03	156
1	175	8.77	8.75	33.977	26.357	169.2	.411	2.82	43.1	34.1	2.06	27.1	.00	.01	.04	176
1	195	8.47	8.45	34.014	26.432	162.4	.444	2.67	40.6	37.1	2.12	28.1	.00			196
	200 ISL	8.38	8.36	34.018	26.449	160.8	.457	2.67	40.4							202
1	216	8.10	8.08	34.028	26.500	156.2	.477	2.65	39.9	39.9	2.15	29.0	.00			217
	250 ISL	7.55	7.52	34.059	26.604	146.6	.529	2.29	34.0							252
1	251	7.54	7.52	34.059	26.606	146.5	.530	2.28	33.9	47.1	2.33	31.8	.00			252
1	300	7.04	7.01	34.085	26.697	138.4	.600	1.85	27.2	54.2	2.51	34.3	.01			302
1	356	6.51	6.47	34.093	26.775	131.6	.675	1.45	21.1	62.2	2.86	37.1	.01			358
	400 ISL	6.25	6.21	34.142	26.848	125.0	.732	1.05	15.2							403
1	442	6.05	6.01	34.194	26.915	119.1	.783	.72	10.3	75.1	3.05	40.2	.01			445
	500 ISL	5.67	5.62	34.221	26.984	113.0	.851	.54	7.7							504
1	529	5.49	5.44	34.232	27.014	110.3	.883	.50	7.1	84.4	3.13	42.1	.01			533
	600 ISL	5.20	5.15	34.285	27.091	103.6	.959	.39	5.5							605
1	614	5.16	5.11	34.298	27.106	102.2	.974	.38	5.4	92.3	3.19	43.2	.00			619

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 77 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 22.4 N	122 15.8 W	02/16/84	0640 GMT		310	15 KT	300 08 10	5	1021.2 MB	13.0 C	13.0 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.83	13.82	33.225	24.853	309.0	.000	6.08	103.2							0
1	1	13.83	13.82	33.225	24.853	308.8	.003	6.08	103.2	2.7	.40	.3	.00	.35	.19	1
	10 ISL	13.82	13.82	33.246	24.869	307.5	.031	6.27	106.4							10
1	12	13.82	13.82	33.249	24.873	307.2	.037	6.29	106.8	2.7	.41	.3	.00	.34	.21	12
	20 ISL	13.72	13.71	33.238	24.885	306.3	.062	6.26	106.1							20
1	27	13.58	13.58	33.219	24.898	305.2	.083	6.23	105.2	2.8	.41	.3	.00	.38	.28	27
	30 ISL	13.49	13.49	33.203	24.905	304.7	.092	6.18	104.3							30
1	42	13.22	13.21	33.184	24.945	301.2	.128	5.98	100.2	4.1	.52	1.0	.24	.63	.43	42
	50 ISL	13.33	13.32	33.273	24.992	297.0	.152	5.88	98.9							50
1	58	13.40	13.39	33.363	25.048	291.8	.175	5.75	96.8	4.9	.60	2.2	.43	.41	.37	58
1	73	12.74	12.73	33.376	25.188	278.8	.218	5.21	86.6	5.0	.82	6.3	.28	.20	.31	73
	75 ISL	12.41	12.40	33.370	25.248	273.1	.224	5.08	83.8							76
1	84	11.20	11.19	33.370	25.473	251.7	.247	4.62	74.3	12.2	1.15	12.3	.04	.08	.14	84
1	99	10.55	10.54	33.469	25.664	233.9	.283	4.32	68.5	15.5	1.36	15.8	.03	.04	.09	99
	100 ISL	10.50	10.49	33.483	25.685	231.9	.286	4.27	67.7							101
1	119	9.94	9.93	33.659	25.917	210.1	.329	3.73	58.4	21.6	1.64	20.5	.01	.01	.03	120
	125 ISL	9.82	9.81	33.679	25.953	206.9	.341	3.71	58.0							126
1	139	9.55	9.54	33.721	26.031	199.7	.370	3.67	57.0	22.2	1.67	20.9	.05	.01	.02	140
	150 ISL	9.31	9.30	33.793	26.126	190.8	.391	3.37	52.1							151
1	160	9.10	9.08	33.861	26.213	182.7	.410	3.07	47.5	29.1	1.94	25.6	.01	.01	.03	161
1	180	8.80	8.78	33.927	26.309	173.9	.445	2.89	44.2	32.2	2.03	27.1	.01	.01	.04	181
	200 ISL	8.43	8.41	33.972	26.405	165.1	.479	2.89	43.8							202
1	201	8.42	8.40	33.974	26.409	164.7	.481	2.80	42.5	35.5	2.12	28.1	.01			202
1	222	8.07	8.05	33.998	26.480	159.2	.514	3.15	47.4	36.5	2.05	27.6	.02			223
	250 ISL	7.86	7.83	34.048	26.552	151.9	.558	2.60	38.9							252
1	257	7.82	7.79	34.062	26.568	150.3	.569	2.37	35.5	43.7	2.30	30.9	.01			259
	300 ISL	7.35	7.32	34.121	26.683	140.0	.631	1.68	24.9							302
1	309	7.23	7.20	34.129	26.705	137.9	.644	1.57	23.2	54.5	2.61	34.7	.00			311
1	367	6.59	6.47	34.123	26.799	129.3	.721	1.24	18.0	63.5	2.79	37.9	.00			369
	400 ISL	6.17	6.13	34.129	26.848	125.4	.763	1.09	15.6							403
1	453	5.72	5.68	34.133	26.907	119.6	.828	.87	12.4	75.2	2.96	40.9	.00			456
	500 ISL	5.37	5.33	34.159	26.971	113.8	.883	.69	9.7							504
1	542	5.12	5.07	34.192	27.027	108.3	.930	.54	7.6	87.8	3.10	43.0	.00			546
	600 ISL	4.92	4.88	34.253	27.097	102.5	.991	.38	5.4							605
1	629	4.89	4.84	34.291	27.137	99.6	1.021	.32	4.5	97.1	3.20	44.2	.00			634

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 77 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 03.6 N	122 56.7 W	02/16/84	0058 GMT		250	12 KT	290 08 10	2	1019.8 MB	15.1 C	14.8 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.02	14.02	33.020	24.654	327.8	.000	6.11	104.0	2.6	.41	.0	.00	.12	.05	0
1	10	13.87	13.87	33.025	24.689	324.7	.032	6.06	102.9	2.6	.40	.0	.00	.12	.08	10
	20 ISL	13.86	13.86	33.023	24.690	324.7	.065	6.08	103.1							20
1	25	13.84	13.84	33.022	24.693	324.8	.081	6.09	103.3	2.6	.40	.0	.00	.14	.08	25
	30 ISL	13.84	13.84	33.023	24.693	325.0	.098	6.08	103.2							30
1	40	13.85	13.84	33.023	24.693	325.1	.130	6.08	103.1	2.6	.41	.0	.00	.16	.08	40
	50 ISL	13.55	13.54	33.027	24.757	319.3	.162	6.16	103.2							50
1	55	13.40	13.39	33.034	24.793	316.0	.177	6.15	103.4	3.5	.42	.0	.04	.38	.31	55
1	70	13.27	13.26	33.096	24.867	309.3	.224	5.89	98.8	3.9	.50	1.1	.24	.29	.21	70
	75 ISL	12.98	12.97	33.153	24.969	299.8	.240	5.68	94.8							76
1	80	12.69	12.68	33.211	25.070	290.2	.254	5.47	90.7	5.4	.67	4.1	.07	.14	.16	80
1	94	12.03	12.02	33.378	25.327	266.0	.293	4.76	77.9	9.4	.98	9.5	.02	.05	.09	94
	100 ISL	11.61	11.60	33.433	25.447	256.7	.309	4.53	73.4							101
1	113	10.77	10.76	33.522	25.668	233.9	.342	4.17	66.5	15.7	1.35	16.1	.00	.02	.05	114
	125 ISL	10.32	10.31	33.574	25.787	222.7	.369	4.01	63.3							126
1	133	10.08	10.07	33.615	25.860	215.9	.387	3.89	61.1	19.8	1.53	19.4	.02	.01	.04	134
	150 ISL	9.70	9.68	33.759	26.037	199.4	.422	3.38	52.8							151
1	153	9.64	9.62	33.788	26.069	196.4	.428	3.28	51.1	25.0	1.78	23.2	.01	.01	.04	154
1	172	9.39	9.37	33.910	26.206	183.7	.464	2.86	44.5	29.5	1.96	25.6	.00	.00	.03	173
1	192	8.80	8.78	33.941	26.324	172.7	.499	2.98	45.6	31.7	1.99	26.7	.00			193
	200 ISL	8.69	8.67	33.957	26.353	170.1	.513	2.95	45.0							202
1	212	8.58	8.56	33.978	26.387	167.0	.533	2.88	43.9	33.6	2.05	27.6	.00			213
1	247	8.09	8.07	34.010	26.486	158.0	.589	2.90	43.7	37.4	2.11	28.6	.01			248
	250 ISL	8.06	8.03	34.014	26.495	157.3	.595	2.87	43.2							252
1	296	7.58	7.55	34.055	26.597	148.2	.665	2.35	35.0	45.3	2.32	31.6	.01			298
	300 ISL	7.54	7.51	34.057	26.604	147.5	.671	2.31	34.4							302
1	352	6.96	6.93	34.078	26.703	138.7	.745	1.84	27.0	54.5	2.56	34.7	.01			354
	400 ISL	6.39	6.36	34.101	26.797	130.0	.810	1.37	19.8							403
1	435	6.02	5.98	34.123	26.863	123.9	.854	1.06	15.2	70.3	2.90	39.7	.00			438
	500 ISL	5.55	5.51	34.180	26.966	114.5	.932	.68	9.7							504
1	520	5.44	5.39	34.199	26.995	111.9	.955	.60	8.5	82.8	3.10	42.3	.00			524
	600 ISL	5.04	4.99	34.266	27.095	103.0	1.040	.41	5.8							505
1	605	5.02	4.97	34.270	27.100	102.5	1.045	.41	5.8	94.2	3.21	43.9	.00			609

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 77 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 44.1 N	123 37.9 W	02/15/84	1853 GMT		270	14 KT	280 08 12	2	1022.8 MB	17.0 C	15.0 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.17	14.17	33.185	24.750	318.6	.000	6.14	105.0							0
1	1	14.17	14.17	33.185	24.750	318.6	.003	6.14	105.0	2.8	.39	.0	.00	.12	.06	1
	10 ISL	14.13	14.13	33.183	24.757	318.2	.032	6.12	104.6							10
1	12	14.13	14.12	33.183	24.758	318.2	.038	6.12	104.5	2.8	.39	.0	.00	.13	.07	12
	20 ISL	14.10	14.10	33.185	24.765	317.7	.064	6.11	104.4							20
1	27	14.07	14.07	33.186	24.772	317.2	.086	6.11	104.2	2.8	.39	.0	.00	.14	.09	27
	30 ISL	13.99	13.99	33.187	24.789	315.8	.095	6.10	103.9							30
1	42	13.63	13.62	33.216	24.887	306.7	.132	6.10	103.1	3.6	.43	.0	.01	.52	.36	42
	50 ISL	13.46	13.45	33.292	24.981	298.0	.157	5.76	97.0							50
1	58	13.17	13.17	33.374	25.101	286.7	.180	5.30	88.8	6.5	.73	5.1	.08	.30	.29	58
1	73	11.85	11.84	33.497	25.452	253.5	.220	4.33	70.6	12.5	1.17	12.5	.03	.08	.15	73
	75 ISL	11.71	11.70	33.495	25.477	251.3	.226	4.35	70.3							76
1	84	11.27	11.26	33.475	25.542	245.2	.247	4.36	70.2	13.4	1.25	13.8	.03	.07	.10	84
1	99	10.45	10.44	33.510	25.714	229.1	.282	4.17	66.0	16.2	1.43	16.8	.03	.03	.08	99
	100 ISL	10.42	10.40	33.522	25.730	227.6	.286	4.13	65.3							101
1	119	10.08	10.06	33.696	25.924	209.5	.328	3.54	55.6	21.4	1.69	21.2	.02	.01	.06	120
	125 ISL	9.94	9.93	33.723	25.968	205.5	.340	3.48	54.5							126
1	139	9.58	9.57	33.777	26.070	196.1	.369	3.36	52.3	24.7	1.79	23.1	.01	.01	.03	140
	150 ISL	9.35	9.34	33.834	26.152	188.4	.389	3.18	49.2							151
1	160	9.16	9.15	33.887	26.224	181.7	.408	3.01	46.4	29.4	1.94	25.8	.01	.01	.03	161
1	180	8.88	8.86	33.952	26.320	172.9	.443	2.82	43.2	31.8	2.04	27.2	.01	.00	.03	181
	200 ISL	8.63	8.61	33.995	26.392	166.3	.477	2.73	41.6							202
1	201	8.62	8.60	33.996	26.395	166.1	.479	2.73	41.6	34.5	2.12	28.1	.01			202
1	222	8.30	8.28	34.012	26.457	160.5	.513	2.78	42.1	36.5	2.12	28.6	.01			223
	250 ISL	7.89	7.86	34.033	26.535	153.4	.557	2.66	39.8							252
1	258	7.78	7.76	34.037	26.554	151.6	.568	2.60	38.9	41.7	2.22	30.5	.00			259
	300 ISL	7.27	7.24	34.053	26.640	144.0	.631	2.24	33.1							302
1	309	7.17	7.14	34.056	26.656	142.5	.644	2.14	31.6	49.9	2.44	33.7	.00			311
1	367	6.52	6.49	34.094	26.774	131.8	.723	1.42	20.6	60.7	2.75	37.7	.00			369
	400 ISL	6.20	6.17	34.112	26.830	126.7	.766	1.16	16.7							403
1	454	5.77	5.74	34.144	26.909	119.5	.833	.87	12.4	75.0	2.98	41.4	.00			457
	500 ISL	5.51	5.47	34.181	26.972	113.9	.886	.66	9.4							504
1	542	5.31	5.26	34.216	27.023	109.3	.934	.52	7.3	85.6	3.12	43.3	.00			546
	600 ISL	5.05	5.00	34.255	27.084	104.0	.995	.39	5.5							605
1	631	4.93	4.88	34.273	27.113	101.4	1.027	.36	5.0		3.22	44.6	.00			636

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 77 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 21.5 N	124 21.1 W	02/15/84	1251 GMT		250	14 KT	270 07 09	1	1021.2 MB	15.3 C	13.6 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.55	15.55	33.431	24.644	328.6	.000	5.84	102.8							0
1	2	15.55	15.55	33.431	24.644	328.7	.007	5.84	102.8	2.8	.33	.2	.00	.06	.03	2
	10 ISL	15.56	15.56	33.431	24.641	329.3	.033	5.86	103.1							10
1	12	15.56	15.56	33.430	24.640	329.4	.039	5.86	103.2	2.9	.33	.1	.00	.06	.03	12
	20 ISL	15.56	15.55	33.427	24.639	329.8	.066	5.85	103.1							20
1	27	15.55	15.55	33.426	24.639	330.0	.089	5.84	102.8	2.5	.33	.0	.00	.06	.02	27
	30 ISL	15.55	15.55	33.426	24.639	330.1	.099	5.83	102.7							30
1	42	15.55	15.54	33.426	24.640	330.3	.138	5.82	102.5	2.4	.33	.0	.00	.06	.03	42
	50 ISL	15.54	15.54	33.426	24.641	330.5	.165	5.84	102.9							50
1	57	15.54	15.53	33.425	24.642	330.6	.187	5.86	103.1	2.4	.34	.0	.00	.08	.05	57
1	72	15.53	15.52	33.433	24.651	330.2	.237	5.81	102.2	2.4	.32	.0	.00	.10	.04	72
	75 ISL	15.44	15.43	33.448	24.682	327.4	.247	5.80	101.9							76
1	82	15.16	15.14	33.473	24.764	319.7	.269	5.78	101.0	3.1	.34	.0	.02	.08	.07	82
1	97	13.81	13.80	33.425	25.013	296.3	.315	5.66	96.2	4.1	.48	1.7	.05	.21	.21	97
	100 ISL	13.47	13.45	33.425	25.083	289.6	.325	5.59	94.3							101
1	116	12.07	12.06	33.462	25.384	261.2	.370	5.20	85.2	7.0	.77	6.5	.01	.07	.11	117
	125 ISL	11.85	11.84	33.490	25.448	255.4	.392	5.09	83.0							126
1	137	11.61	11.59	33.531	25.525	248.2	.424	4.90	79.5	9.9	.95	9.4	.01	.04	.07	138
	150 ISL	10.83	10.81	33.583	25.706	231.2	.454	4.50	71.8							151
1	156	10.42	10.40	33.612	25.801	222.1	.468	4.30	68.1	16.1	1.33	16.1	.01	.01	.02	157
1	176	9.56	9.54	33.715	26.026	200.9	.510	4.03	62.6	21.5	1.56	20.0	.01	.00	.01	177
1	196	9.12	9.10	33.832	26.188	185.8	.548	3.95	59.3	25.3	1.69	22.4	.01			197
	200 ISL	9.05	9.03	33.851	26.214	183.4	.556	3.78	58.2							202
1	216	8.81	8.79	33.916	26.303	175.1	.584	3.48	53.2	29.4	1.84	24.6	.01			217
	250 ISL	8.28	8.25	34.016	26.464	160.3	.642	2.89	43.8							252
1	252	8.25	8.23	34.019	26.470	159.7	.644	2.87	43.4	37.1	2.08	28.3	.01			253
	300 ISL	7.70	7.67	34.058	26.582	149.7	.719	2.44	36.4							302
1	301	7.69	7.66	34.058	26.584	149.5	.721	2.43	36.3	44.6	2.31	31.2	.00			303
1	357	6.90	6.87	34.078	26.711	137.9	.801	1.91	26.5	54.7	2.59	35.2	.00			359
	400 ISL	6.54	6.51	34.108	26.783	131.4	.859	1.40	20.3							403
1	443	6.27	6.23	34.140	26.844	126.0	.914	1.06	15.3	67.5	2.88	39.3	.00			446
	500 ISL	5.78	5.74	34.172	26.931	118.1	.984	.75	10.7							504
1	530	5.55	5.51	34.189	26.973	114.2	1.019	.63	8.9	81.0	3.07	42.4	.00			534
	600 ISL	5.25	5.20	34.243	27.052	107.2	1.096	.43	6.1							605
1	614	5.21	5.16	34.258	27.069	105.8	1.115	.40	5.6	89.8	3.17	43.5	.00			622

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 51

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 27.0 N	120 31.3 W	02/16/84	1406 GMT	69 M	330	16 KT	310 02 05		1021.7 MB	14.0 C	12.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.83	13.83	33.489	25.056	288.7	.000	5.26	89.5							0
1	1	13.83	13.83	33.489	25.056	289.5	.003	5.26	89.5	6.6	.61	1.2	.13	.77	.22	1
	10 ISL	13.82	13.82	33.487	25.056	289.4	.029	5.27	89.5							10
1	11	13.77	13.77	33.487	25.066	288.8	.032	5.32	90.4	7.0	.62	1.4	.13	.67	.25	11
	20 ISL	13.52	13.51	33.487	25.118	284.1	.058	5.04	85.2							20
1	21	13.48	13.48	33.487	25.125	283.4	.060	5.01	84.6	7.7	.71	2.9	.11	.47	.30	21
	30 ISL	13.06	13.05	33.484	25.209	275.7	.086	4.77	79.8							30
1	31	13.02	13.02	33.484	25.216	275.1	.088	4.75	79.4	8.7	.82	4.8	.09	.33	.21	31
1	42	12.89	12.89	33.486	25.243	272.7	.118	4.64	77.4	9.0	.88	5.6	.08	.32	.15	42
	50 ISL	12.75	12.74	33.492	25.276	269.9	.140	4.56	75.9							50
1	56	12.63	12.62	33.498	25.305	267.3	.156	4.51	74.8	10.0	.94	6.9	.07	.24	.15	56

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 19.0 N	120 48.0 W	02/16/84	1805 GMT	883 M	340	22 KT	310 04 08	1	1022.0 MB	14.8 C	11.6 C	3/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.14	14.14	33.493	24.994	295.6	.000	6.03	103.2							0
1	1	14.14	14.14	33.493	24.994	295.4	.003	6.03	103.2	3.7	.39	.0	.04	2.16	.58	1
	10 ISL	14.14	14.14	33.493	24.994	295.4	.030	6.04	103.4							10
1	11	14.13	14.13	33.492	24.995	295.5	.032	6.14	105.1	3.7	.41	.0	.04	2.19	.64	11
	20 ISL	14.13	14.13	33.493	24.997	295.5	.059	6.01	102.8							20
1	21	14.08	14.08	33.493	25.007	294.8	.062	5.98	102.2	3.7	.42	.1	.05	2.13	.69	21
	30 ISL	13.74	13.74	33.491	25.076	288.4	.088	5.59	95.0							30
1	31	13.71	13.71	33.491	25.082	287.8	.091	5.56	94.3	4.4	.55	.1	.18	.82	.40	31
1	42	13.62	13.61	33.492	25.103	286.2	.122	5.48	92.8	4.9	.59	.3	.19	.67	.38	42
	50 ISL	13.12	13.11	33.501	25.210	276.1	.145	5.01	84.0							50
1	58	12.52	12.52	33.521	25.343	263.7	.166	4.51	74.7	10.1	.93	4.4	.09	.28	.42	58
1	67	11.96	11.96	33.555	25.476	251.2	.189	4.20	68.7	12.5	1.09	7.5	.05	.19	.29	67
	75 ISL	11.60	11.59	33.591	25.573	242.1	.210	3.96	64.3							76
1	77	11.53	11.52	33.599	25.590	240.5	.214	3.92	63.6	14.8	1.24	10.2	.03	.19	.26	77
1	93	10.85	10.84	33.667	25.767	224.0	.251	3.63	58.0	18.3	1.43	13.8	.01	.06	.23	93
	100 ISL	10.65	10.64	33.699	25.827	218.4	.267	3.52	56.0							101
1	113	10.36	10.35	33.754	25.920	209.8	.296	3.34	52.8	21.7	1.59	17.1	.01	.03	.11	114
	125 ISL	10.10	10.08	33.795	25.997	202.7	.320	3.20	50.4							126
1	133	9.93	9.91	33.821	26.047	198.2	.336	3.11	48.8	25.3	1.71	19.9	.00	.03	.13	134
	150 ISL	9.70	9.69	33.866	26.119	191.6	.369	2.95	46.0							151
1	158	9.60	9.58	33.887	26.153	188.5	.384	2.88	44.8	28.1	1.81	21.6	.00	.01	.08	159
1	187	9.00	8.98	33.971	26.316	173.5	.436	2.66	40.9	32.8	1.95	23.5	.00			188
	200 ISL	8.85	8.83	33.995	26.359	169.6	.459	2.57	39.4							202
1	220	8.66	8.64	34.024	26.411	165.0	.492	2.44	37.2	34.9	2.07	26.3	.00			221
	250 ISL	8.27	8.24	34.073	26.509	156.0	.540	2.18	33.0							252
1	253	8.22	8.20	34.077	26.520	155.1	.546	2.15	32.5	41.3	2.20	29.1	.00			255
	300 ISL	7.74	7.71	34.118	26.624	145.8	.616	1.77	26.4							302
1	303	7.71	7.68	34.120	26.630	145.3	.620	1.74	26.0	48.3	2.39	32.0	.00			305
1	359	7.13	7.10	34.153	26.738	135.5	.698	1.30	19.2	57.6	2.58	35.2	.00			361
	400 ISL	6.79	6.75	34.165	26.795	130.5	.753	1.02	15.0							403
1	443	6.47	6.42	34.179	26.849	125.7	.808	.79	11.5	71.3	2.85	36.9	.00			446
	500 ISL	5.98	5.94	34.220	26.944	117.1	.878	.58	8.3							504
1	527	5.76	5.71	34.241	26.989	113.0	.909	.51	7.3	82.6	3.02	40.8	.00			531
	600 ISL	5.28	5.23	34.289	27.085	104.2	.988	.36	5.1							605
1	611	5.22	5.17	34.295	27.097	103.1	.999	.35	4.9	94.1	3.10	43.3	.00			615

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 09.0 N	121 09.0 W	02/17/84	0044 GMT	1110 M	320	25 KT	320 15 04		1023.4 MB	12.1 C	9.1 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.10	14.10	33.493	25.002	294.5	.000	5.97	102.1							0
1	2	14.10	14.10	33.493	25.002	294.7	.006	5.97	102.1	1.9	.41	.4	.04	3.07	.30	2
	10 ISL	14.11	14.11	33.493	25.000	295.1	.029	6.10	104.3							10
1	12	14.11	14.11	33.493	25.000	295.1	.035	6.11	104.5	1.8	.42	.3	.05	2.90	.51	12
	20 ISL	14.12	14.11	33.494	25.000	295.3	.059	6.06	103.7							20
1	28	14.12	14.12	33.496	25.001	295.4	.082	5.96	102.0	2.0	.41	.3	.05	2.87	.55	28
	30 ISL	14.08	14.08	33.495	25.008	295.3	.089	5.89	100.7							30
1	42	14.08	14.07	33.491	25.007	295.3	.123	5.88	100.5	2.2	.46	.7	.06	2.46	.49	42
	50 ISL	13.80	13.79	33.491	25.066	290.1	.147	5.55	94.6							50
1	57	13.44	13.43	33.492	25.140	283.1	.167	5.20	87.7	5.8	.71	5.1	.19	.44	.46	57
1	73	12.19	12.18	33.535	25.418	256.9	.210	4.35	71.5	10.4	1.07	12.0	.03	.13	.25	73
	75 ISL	12.06	12.05	33.543	25.448	254.0	.216	4.29	70.3							76
1	82	11.78	11.77	33.567	25.521	247.3	.232	4.17	68.0	11.8	1.16	13.2	.01	.09	.20	82
1	98	11.38	11.36	33.603	25.623	237.9	.271	3.97	64.2	14.0	1.28	15.0	.01	.07	.15	98
	100 ISL	11.30	11.29	33.613	25.644	235.9	.277	3.93	63.6							101
1	116	10.75	10.74	33.693	25.805	220.9	.314	3.59	57.3	17.9	1.48	18.5	.00	.03	.08	117
	125 ISL	10.42	10.40	33.749	25.907	211.4	.333	3.37	53.4							126
1	136	10.00	9.99	33.822	26.035	199.3	.356	3.09	48.5	24.0	1.72	22.8	.00	.02	.08	137
	150 ISL	9.63	9.61	33.888	26.148	188.8	.383	2.86	44.5							151
1	156	9.50	9.48	33.911	26.188	185.1	.394	2.77	43.0	27.8	1.90	25.4	.00	.00	.06	157
1	176	9.23	9.21	33.969	26.278	177.0	.430	2.52	38.9	31.2	2.01	27.1	.00	.00	.06	177
1	195	8.90	8.88	34.022	26.373	168.2	.463	2.30	35.3	34.7	2.11	28.5	.00			196
	200 ISL	8.82	8.80	34.027	26.389	166.7	.471	2.31	35.3							202
1	216	8.59	8.57	34.036	26.431	163.0	.497	2.35	35.8	36.2	2.14	29.3	.00			217
1	249	8.16	8.14	34.087	26.536	153.4	.549	2.06	31.1	41.4	2.27	31.1	.01			250
	250 ISL	8.15	8.13	34.088	26.540	153.1	.551	2.05	30.9							252
1	297	7.78	7.75	34.125	26.624	145.7	.622	1.74	26.0	47.5	2.42	32.9	.00			299
	300 ISL	7.75	7.72	34.128	26.630	145.3	.626	1.72	25.7							302
1	351	7.24	7.20	34.158	26.728	136.5	.697	1.31	19.4	54.3	2.60	35.4	.00			353
	400 ISL	6.70	6.67	34.179	26.818	128.3	.763	.98	14.2							403
1	433	6.37	6.34	34.194	26.873	123.3	.804	.79	11.4	68.4	2.85	39.2	.00			436
	500 ISL	5.96	5.92	34.232	26.956	115.9	.884	.54	7.7							504
1	516	5.87	5.82	34.242	26.976	114.2	.903	.49	7.0	78.1	3.03	41.2	.00			520
1	600	5.21	5.16	34.312	27.112	101.6	.993	.30	4.2	91.9	3.12	43.7	.00			604

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 09.0 N	121 09.0 W	02/21/84	0513 GMT	2040 M	320	09 KT	310 02 05	1	1023.4 MB	13.8 C	12.7 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.95	13.95	33.517	25.053	289.8	.000	6.34	108.1	0.0	.37	.0	.00	1.62	.68	0
1	10	13.70	13.70	33.510	25.098	285.7	.029	6.44	109.5	0.0	.37	.0	.00	1.74	.59	10
1	20	13.65	13.64	33.510	25.110	284.9	.057	6.25	105.9	0.0	.37	.0	.01	2.63	.45	20
	30 ISL	13.59	13.59	33.501	25.114	284.8	.086	6.01	101.7							30
1	31	13.59	13.59	33.501	25.115	284.8	.088	5.99	101.4	.3	.40	.2	.01	2.76	.36	31
1	41	13.53	13.53	33.496	25.123	284.3	.116	5.94	100.4	.4	.43	.4	.02	3.65	.45	41
	50 ISL	13.51	13.51	33.484	25.118	284.1	.143	5.92	100.1							50
1	52	13.41	13.40	33.483	25.138	283.1	.148	5.84	98.5	1.3	.46	1.1	.03	2.87	.49	52
1	61	12.56	12.55	33.509	25.326	265.3	.172	5.07	84.0	6.7	.81	6.9	.08	.98	.57	61
1	71	11.44	11.43	33.605	25.612	238.3	.197	3.98	64.4	13.8	1.26	14.7	.03	.13	.23	71
	75 ISL	11.14	11.13	33.637	25.692	230.8	.207	3.77	60.6							76
1	86	10.64	10.63	33.702	25.831	217.8	.231	3.53	56.2	18.7	1.51	19.3	.02	.04	.19	86
	100 ISL	10.14	10.13	33.782	25.980	203.8	.262	3.22	50.8							101
1	101	10.10	10.09	33.789	25.992	202.7	.265	3.20	50.4	22.5	1.68	22.0	.02	.03	.11	102
1	121	9.75	9.74	33.845	26.094	193.3	.304	3.03	47.3	25.3	1.79	23.8	.02	.02	.08	122
	125 ISL	9.71	9.70	33.853	26.107	192.2	.311	3.01	47.0							126
1	147	9.51	9.49	33.894	26.173	186.4	.353	2.89	44.9	27.6	1.88	24.8	.01	.01	.08	148
	150 ISL	9.48	9.46	33.899	26.182	185.6	.358	2.88	44.7							151
1	177	9.16	9.14	33.953	26.277	177.0	.407	2.70	41.6	30.7	2.00	26.4	.01			178
	200 ISL	8.89	8.86	34.014	26.368	168.8	.447	2.43	37.2							202
1	207	8.81	8.78	34.030	26.393	166.5	.458	2.35	36.0	35.8	2.12	28.4	.01			208
1	236	8.48	8.45	34.065	26.472	159.5	.505	2.24	34.0	38.4	2.19	29.6	.01			237
	250 ISL	8.29	8.26	34.065	26.500	156.9	.528	2.28	34.5							252
1	276	7.95	7.92	34.061	26.548	152.6	.569	2.33	35.0	41.3	2.24	30.6	.01			278
	300 ISL	7.74	7.71	34.082	26.596	148.4	.604	2.11	31.5							302
1	336	7.46	7.43	34.124	26.669	141.9	.656	1.65	24.5	50.5	2.50	34.0	.00			338
	400 ISL	6.87	6.83	34.174	26.792	130.9	.744	1.11	16.2							403
1	410	6.77	6.73	34.181	26.810	129.3	.757	1.04	15.2	62.7	2.78	37.5	.00			413
1	483	6.23	6.19	34.218	26.911	120.2	.848	.70	10.1	72.0	2.96	39.6	.00			486
	500 ISL	6.08	6.04	34.227	26.937	117.9	.868	.63	9.1							504
1	558	5.55	5.50	34.255	27.026	109.6	.934	.43	6.1	85.5	3.10	42.2	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 09.0 N	121 09.0 W	02/21/84	1312 GMT	2060 M	320	11 KT	300 02 10	2	1020.3 MB	13.2 C	12.0 C	8/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
																0
	0 ISL	13.76	13.76	33.508	25.085	286.4	.000	6.26	106.3							1
1	1	13.76	13.76	33.508	25.085	286.7	.003	6.26	106.3	0.0	.33	.0	.00	1.98	.41	10
1	10	13.72	13.72	33.505	25.091	286.4	.029	6.39	108.4	.1	.33	.0	.00	1.75	.68	20
	20 ISL	13.63	13.63	33.500	25.105	285.3	.057	6.22	105.3							26
1	26	13.57	13.57	33.497	25.115	284.5	.074	6.05	102.4	.3	.36	.1	.01	3.87	.45	30
	30 ISL	13.45	13.45	33.494	25.136	282.9	.086	6.01	101.3							41
1	41	13.41	13.41	33.490	25.143	282.3	.116	5.77	97.3	1.9	.45	1.4	.05	2.85	.62	50
	50 ISL	12.89	12.88	33.492	25.250	272.4	.142	5.24	87.4							56
1	56	12.40	12.39	33.508	25.357	262.2	.157	4.80	79.2	8.6	.87	8.6	.09	.74	.36	66
1	66	11.24	11.23	33.592	25.638	235.7	.182	3.91	63.0	15.7	1.28	15.9	.05	.16	.23	76
	75 ISL	10.81	10.80	33.621	25.739	226.3	.203	3.66	57.4							77
1	76			33.667			.207	3.65	58.5	18.1	1.42	17.9	.03	.05	.17	92
1	92	10.56	10.55	33.729	25.865	214.6	.240	3.41	54.2	20.6	1.54	20.0	.02	.04	.11	101
	100 ISL	10.46	10.45	33.746	25.897	211.7	.258	3.35	53.2							106
1	105	10.38	10.37	33.756	25.918	209.9	.269	3.32	52.6	21.8	1.63	21.0	.01	.03	.13	121
1	120	9.97	9.95	33.812	26.033	199.2	.300	3.14	49.3	24.4	1.72	22.8	.01	.02	.11	126
	125 ISL	9.83	9.81	33.834	26.073	195.5	.309	3.07	48.1							146
1	145	9.36	9.34	33.920	26.218	182.0	.347	2.81	43.5	29.2	1.91	25.8	.01	.01	.07	151
	150 ISL	9.31	9.30	33.932	26.235	180.5	.356	2.77	42.8							166
1	165	9.22	9.20	33.958	26.270	177.4	.383	2.64	40.8	31.5	1.97	26.5	.01	.01	.07	186
1	185	9.05	9.03	33.999	26.331	172.0	.417	2.44	37.6	34.1	2.07	27.9	.00			202
	200 ISL	8.89	8.86	34.027	26.378	167.8	.443	2.31	35.4							207
1	206	8.82	8.79	34.037	26.397	166.1	.453	2.27	34.8	36.5	2.15	28.7	.00			236
1	235	8.33	8.31	34.077	26.499	156.7	.499	2.20	33.3	39.7	2.25	30.3	.00			252
	250 ISL	8.03	8.01	34.068	26.542	152.6	.523	2.20	33.1							276
1	274	7.58	7.55	34.066	26.606	146.9	.559	2.20	32.8	45.3	2.31	32.2	.00			302
	300 ISL	7.24	7.22	34.074	26.660	142.0	.597	1.91	28.2							337
1	335	6.91	6.88	34.098	26.725	136.2	.645	1.41	20.7	55.6	2.56	35.7	.00			403
	400 ISL	6.44	6.40	34.185	26.857	124.3	.730	.86	12.5							412
1	409	6.38	6.35	34.198	26.875	122.8	.741	.81	11.7	68.7	2.90	39.2	.00			488
1	485	5.93	5.89	34.244	26.970	114.4	.831	.53	7.6	78.3	3.05	41.5	.00			504
	500 ISL	5.81	5.77	34.255	26.993	112.3	.848	.49	6.9							566
1	562	5.28	5.23	34.303	27.096	102.7	.915	.35	4.9	91.7	3.17	43.3	.00			

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 09.0 N	121 09.0 W	02/21/84	1735 GMT	2130 M	340	25 KT	300 06 14	1	1021.7 MB	14.0 C	11.8 C	7/8 SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
																0
	0 ISL	13.64	13.64	33.500	25.104	284.8	.000	6.21	105.2							1
1	1	13.64	13.64	33.500	25.104	284.9	.003	6.21	105.2	0.0	.35	.2	.01	2.77	.40	10
	10 ISL	13.64	13.64	33.497	25.102	285.6	.029	6.21	105.2							12
1	12	13.65	13.64	33.497	25.100	285.6	.034	6.20	105.1	0.0	.37	.2	.00	2.69	.45	20
	20 ISL	13.61	13.61	33.496	25.106	285.3	.057	6.16	104.3							27
1	27	13.58	13.57	33.494	25.112	284.9	.077	6.08	102.9	0.0	.38	.3	.01	3.25	.44	30
	30 ISL	13.56	13.56	33.485	25.108	282.0	.086	6.04	102.2							41
1	41	13.32	13.32	33.482	25.155	281.2	.116	5.71	96.1	2.0	.48	1.9	.05	2.54	.70	50
	50 ISL	12.63	12.63	33.517	25.318	265.9	.141	4.96	82.2							57
1	57	12.04	12.03	33.557	25.463	252.2	.159	4.38	71.8	10.9	1.04	11.5	.07	.41	.37	67
1	67	11.32	11.32	33.612	25.638	235.6	.183	3.93	63.4	15.0	1.28	15.4	.03	.07	.19	76
	75 ISL	11.06	11.05	33.648	25.714	228.6	.202	3.74	60.1							78
1	78	11.00	10.99	33.659	25.733	226.9	.208	3.70	59.3	17.2	1.40	17.3	.02	.07	.12	92
1	92	10.52	10.51	33.737	25.880	213.2	.239	3.40	54.0	20.5	1.55	19.8	.01	.03	.11	101
	100 ISL	10.34	10.33	33.760	25.928	208.8	.257	3.32	52.5							107
1	106	10.25	10.24	33.770	25.952	206.6	.270	3.28	51.8	22.0	1.61	21.2	.01	.02	.08	123
1	122	10.10	10.09	33.794	25.996	202.8	.303	3.19	50.2	23.4	1.69	22.1	.01	.02	.09	126
	125 ISL	10.06	10.04	33.801	26.009	201.6	.308	3.17	49.8							148
1	147	9.63	9.61	33.871	26.135	190.0	.351	2.94	45.8	26.7	1.82	24.5	.01	.00	.09	151
	150 ISL	9.58	9.56	33.880	26.151	188.5	.357	2.91	45.3							166
1	165	9.33	9.31	33.929	26.230	181.3	.385	2.76	42.7	29.5	1.92	26.0	.00	.00	.05	186
1	185	9.12	9.10	33.980	26.303	174.7	.420	2.56	39.5	32.0	1.99	27.2	.00			202
	200 ISL	8.98	8.96	34.013	26.352	170.3	.446	2.39	36.7							207
1	206	8.93	8.90	34.023	26.369	168.8	.456	2.33	35.8	34.7	2.10	28.4	.00			237
1	236	8.65	8.62	34.044	26.429	163.5	.505	2.35	35.9	36.2	2.13	29.1	.00			252
	250 ISL	8.39	8.36	34.046	26.471	159.8	.528	2.36	35.8							277
1	275	7.92	7.89	34.055	26.548	152.6	.568	2.37	35.6	40.9	2.19	30.7	.00			302
	300 ISL	7.64	7.61	34.092	26.619	146.2	.605	2.03	30.2							336
1	334	7.35	7.32	34.147	26.703	138.6	.653	1.46	21.6	53.4	2.55	34.5	.00			403
	400 ISL	6.79	6.76	34.182	26.808	129.3	.742	1.03	15.1							410
1	407	6.74	6.70	34.184	26.817	128.5	.751	1.01	14.8	63.2	2.79	37.4	.00			485
1	482	6.26	6.22	34.216	26.905	120.9	.844	.71	10.3	71.8	2.92	39.8	.00			504
	500 ISL	6.14	6.09	34.224	26.928	118.8	.866	.65	9.4							560
1	556	5.72	5.67	34.247	26.999	112.4	.931	.50	7.1	82.1	3.05	41.7	.00			

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 09.0 N	121 09.0 W	02/22/84	0040 GMT	2130 M	330	27 KT	330 08 08	2	1019.6 MB	12.6 C	9.6 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.69	13.69	33.514	25.103	285.0	.000	6.13	104.0							0
1	1	13.69	13.69	33.514	25.103	285.0	.003	6.13	104.0	0.0	.36	.0	.03	2.87	.36	1
	10 ISL	13.69	13.69	33.514	25.104	285.2	.029	6.29	106.8							10
1	11	13.69	13.69	33.513	25.104	285.3	.031	6.30	106.9	0.0	.39	.0	.01	2.76	.40	11
	20 ISL	13.68	13.68	33.512	25.105	285.3	.057	6.20	105.2							20
1	26	13.66	13.66	33.509	25.106	285.4	.074	6.09	103.2	0.0	.38	.1	.01	2.84	.40	26
	30 ISL	13.56	13.56	33.506	25.125	284.1	.086	5.97	100.9							30
1	41	13.52	13.51	33.502	25.130	283.6	.116	5.92	100.0	.8	.44	.5	.02	2.87	.40	41
	50 ISL	13.01	13.00	33.509	25.239	273.4	.142	5.27	88.2							50
1	56	12.57	12.56	33.524	25.337	264.2	.157	4.80	79.5	7.6	.88	7.5	.07	1.00	.37	56
1	67	11.59	11.58	33.589	25.573	242.0	.185	4.11	66.7	13.2	1.21	13.6	.03	.19	.30	67
	75 ISL	11.23	11.22	33.625	25.666	233.3	.205	3.87	62.4							76
1	76	11.21	11.20	33.627	25.672	232.7	.206	3.86	62.2	15.4	1.33	15.9	.02	.09	.18	76
1	91	10.55	10.54	33.733	25.870	214.1	.239	3.43	54.5	20.2	1.56	19.7	.01	.05	.13	91
	100 ISL	10.43	10.41	33.751	25.906	210.8	.260	3.36	53.2							101
1	105	10.36	10.35	33.759	25.924	209.3	.271	3.33	52.7	21.4	1.62	20.9	.01	.03	.11	106
1	120	9.83	9.81	33.837	26.075	195.1	.301	3.05	47.7	25.1	1.79	23.4	.01	.01	.10	121
	125 ISL	9.73	9.72	33.853	26.104	192.6	.310	3.00	46.9							126
1	145	9.46	9.44	33.904	26.189	184.8	.343	2.85	44.2	28.2	1.88	25.6	.00	.01	.07	146
	150 ISL	9.40	9.38	33.918	26.210	182.9	.357	2.80	43.4							151
1	165	9.18	9.16	33.961	26.279	176.6	.384	2.62	40.4	31.0	1.99	26.9	.01	.00	.07	166
1	186	8.76	8.74	34.030	26.400	165.3	.420	2.36	36.1	35.3	2.09	29.0	.00			187
	200 ISL	8.60	8.58	34.052	26.442	161.6	.443	2.31	35.1							202
1	206	8.55	8.52	34.057	26.454	160.6	.452	2.30	35.0	37.2	2.15	30.0	.00			207
1	236	8.15	8.13	34.059	26.516	155.1	.499	2.31	34.9	39.7	2.19	31.1	.00			237
	250 ISL	7.91	7.89	34.070	26.560	151.0	.521	2.14	32.0							252
1	275	7.51	7.48	34.096	26.640	143.6	.559	1.75	26.0	47.8	2.38	33.8	.01			277
	300 ISL	7.24	7.21	34.130	26.704	137.9	.593	1.49	22.1							302
1	336	6.94	6.90	34.174	26.781	130.9	.642	1.20	17.6	59.5	2.67	38.1	.00			338
	400 ISL	6.37	6.33	34.207	26.884	121.7	.723	.79	11.4							403
1	410	6.28	6.24	34.210	26.898	120.5	.735	.74	10.7	71.1	2.89	40.8	.00			413
1	486	5.65	5.61	34.246	27.005	110.8	.822	.49	7.0	83.1	3.05	43.2	.00			489
	500 ISL	5.56	5.52	34.255	27.024	109.1	.838	.45	6.4							504
1	558	5.27	5.22	34.300	27.095	102.8	.899	.34	4.8	91.9	3.12	44.6	.01			562

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 00.0 N	121 30.5 W	02/16/84	1605 GMT		310	26 KT	300 08 10	1	1021.8 MB	13.6 C	11.4 C	4/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.25	14.25	33.494	24.972	297.4	.000	6.10	104.7							0
1	1	14.25	14.25	33.494	24.972	297.5	.003	6.10	104.7	1.3	.36	.2	.00	.78	.29	1
	10 ISL	14.25	14.25	33.492	24.970	298.0	.030	6.05	103.8							10
1	11	14.26	14.26	33.492	24.969	298.1	.033	6.05	103.8	1.3	.36	.2	.00	.77	.32	11
	20 ISL	14.25	14.24	33.491	24.971	298.0	.060	6.08	104.3							20
1	27	14.23	14.23	33.491	24.975	298.0	.080	6.11	104.8	1.3	.36	.2	.00	.79	.20	27
	30 ISL	14.15	14.14	33.489	24.990	296.8	.089	6.10	104.5							30
1	42	14.12	14.12	33.488	24.995	296.5	.124	6.10	104.4	1.3	.36	.2	.00	1.11	.31	42
	50 ISL	13.67	13.66	33.465	25.071	289.4	.148	5.70	96.6							50
1	58	13.03	13.02	33.453	25.190	278.2	.170	5.19	86.8	7.2	.77	5.6	.23	.76	.52	58
1	73	11.37	11.36	33.534	25.570	242.4	.209	4.15	67.0	15.0	1.27	14.6	.06	.11	.23	73
	75 ISL	11.23	11.23	33.550	25.606	238.9	.215	4.07	65.6							76
1	83	10.92	10.91	33.604	25.705	229.7	.233	3.89	62.3	17.8	1.45	17.4	.03	.07	.17	83
1	99	10.44	10.42	33.728	25.887	212.7	.268	3.53	55.9	21.9	1.63	20.2	.03	.05	.13	99
	100 ISL	10.39	10.38	33.735	25.900	211.4	.271	3.51	55.5							101
1	118	9.88	9.86	33.800	26.038	198.6	.309	3.25	50.9	26.0	1.80	22.7	.01	.04	.11	119
	125 ISL	9.76	9.75	33.828	26.079	194.9	.322	3.16	49.4							126
1	139	9.55	9.53	33.885	26.160	187.5	.349	2.98	46.3	29.0	1.91	24.6	.01	.03	.10	140
	150 ISL	9.32	9.31	33.923	26.226	181.4	.369	2.87	44.4							151
1	159	9.13	9.11	33.951	26.280	176.4	.385	2.78	42.9	31.9	2.03	26.5	.01	.02	.08	160
1	180	8.73	8.71	34.006	26.385	166.7	.421	2.57	39.3	35.8	2.12	28.3	.01	.01	.07	181
1	200	8.52	8.50	34.036	26.442	161.6	.453	2.44	37.1	38.5	2.21	29.3	.01			201
1	221	8.27	8.25	34.069	26.506	155.9	.487	2.30	34.8	41.3	2.28	30.4	.01			222
	250 ISL	7.98	7.95	34.098	26.572	149.9	.531	2.03	30.6							252
1	256	7.92	7.89	34.103	26.586	148.7	.541	1.97	29.6	46.1	2.40	32.2	.01			258
	300 ISL	7.43	7.40	34.149	26.692	139.1	.604	1.54	22.9							302
1	307	7.35	7.32	34.155	26.709	137.6	.613	1.48	21.9	54.8	2.64	35.0	.01			309
1	364	6.67	6.63	34.176	26.819	127.6	.688	1.13	16.5	64.4	2.84	38.0	.00			366
	400 ISL	6.36	6.33	34.201	26.879	122.2	.734	.92	13.3							403
1	451	6.02	5.98	34.237	26.953	115.7	.794	.68	9.8	76.3	3.02	40.8	.00			454
	500 ISL	5.67	5.63	34.264	27.017	109.9	.850	.56	7.9							504
1	538	5.44	5.39	34.284	27.062	105.9	.891	.50	7.1	86.6	3.15	42.8	.00			542
	600 ISL	5.17	5.12	34.320	27.122	100.5	.955	.43	6.0							605
1	624	5.10	5.04	34.335	27.143	98.8	.979	.41	5.8	94.4	3.20	43.8	.00			629

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 48.8 N	121 49.6 W	02/17/84	0033 GMT		310	28 KT	310 09 08	1	1022.2 MB	13.0 C	10.2 C	3/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.03	14.03	33.501	25.023	292.6	.000	6.19	105.7	.9	.34	.3	.00	.62	.33	0
1	10	14.04	14.04	33.498	25.020	293.2	.029	6.22	106.2	.8	.36	.3	.00	.65	.32	10
	20 ISL	14.04	14.04	33.498	25.020	293.5	.059	6.19	105.7							20
1	26	14.04	14.04	33.498	25.020	293.6	.076	6.16	105.2	.5	.37	.3	.00	.66	.34	26
	30 ISL	14.04	14.03	33.498	25.021	293.8	.088	6.15	105.1							30
1	41	14.03	14.03	33.498	25.021	293.9	.120	6.15	105.0	.5	.36	.3	.00	.75	.35	41
	50 ISL	12.84	12.83	33.507	25.271	270.3	.146	5.12	85.3							50
1	56	11.98	11.98	33.531	25.453	253.1	.161	4.42	72.3	12.0	1.11	12.1	.14	.29	.42	56
1	71	10.91	10.90	33.628	25.726	227.4	.197	3.84	61.4	17.7	1.44	17.5	.03	.10	.22	71
	75 ISL	10.71	10.70	33.658	25.784	221.9	.206	3.71	59.2							76
1	82	10.47	10.46	33.698	25.857	215.1	.221	3.56	56.4	20.8	1.58	19.8	.03	.07	.21	82
1	97	10.06	10.05	33.750	25.968	204.9	.252	3.56	52.8	23.1	1.71	21.7	.01	.04	.12	97
	100 ISL	9.98	9.97	33.769	25.997	202.2	.259	3.31	51.9							101
1	116	9.58	9.57	33.861	26.135	189.4	.291	3.06	47.6	27.7	1.88	24.4	.01	.03	.10	117
	125 ISL	9.36	9.34	33.902	26.203	183.0	.307	2.94	45.5							126
1	137	9.06	9.04	33.950	26.290	174.9	.329	2.78	42.8	32.0	2.02	26.7	.01	.02	.08	138
	150 ISL	8.83	8.81	33.989	26.356	169.9	.351	2.66	40.7							151
1	157	8.73	8.71	34.005	26.385	166.3	.363	2.60	39.7	35.7	2.11	28.2	.01	.02	.08	158
1	177	8.52	8.51	34.031	26.437	161.6	.396	2.48	37.7	37.7	2.20	29.0	.01	.01	.06	178
1	198	8.31	8.29	34.059	26.493	156.7	.429	2.28	34.5	39.7	2.28	30.1	.01			199
	200 ISL	8.28	8.26	34.061	26.498	156.2	.432	2.27	34.4							202
1	218	8.08	8.06	34.075	26.539	152.5	.460	2.20	33.1	41.9	2.37	31.0	.00			219
	250 ISL	7.72	7.70	34.112	26.621	145.2	.508	1.88	28.1							252
1	253	7.69	7.66	34.115	26.629	144.5	.513	1.84	27.5	47.8	2.48	32.9	.00			255
	300 ISL	7.30	7.27	34.132	26.699	138.5	.574	1.60	23.7							302
1	305	7.26	7.23	34.133	26.705	137.9	.586	1.58	23.4	53.7	2.63	34.8	.01			307
1	361	6.54	6.51	34.176	26.836	125.8	.659	1.12	16.3	63.6	2.83	38.2	.00			363
	400 ISL	6.30	6.27	34.198	26.885	121.6	.707	.90	13.0							403
1	448	6.10	6.06	34.219	26.928	118.0	.765	.71	10.2	72.7	3.01	40.3	.00			451
	500 ISL	5.68	5.63	34.242	26.999	111.5	.825	.57	8.2							504
1	537	5.39	5.34	34.259	27.048	107.0	.865	.51	7.2	84.7	3.15	42.8	.00			541
	600 ISL	5.09	5.04	34.293	27.110	101.6	.931	.42	5.9							605
1	624	5.02	4.97	34.307	27.129	100.0	.955	.40	5.6	92.5	3.23	43.8	.00			629

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 48.8 N	121 51.5 W	02/17/84	0539 GMT		320	31 KT	320 10 08	1	1024.0 MB	12.4 C	9.2 C	4/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.95	13.95	33.491	25.033	291.5	.000	6.16	105.0							0
1	1	13.95	13.95	33.491	25.033	291.7	.003	6.16	105.0	0.0	.40	.1	.00	.80	.35	1
	10 ISL	13.99	13.98	33.490	25.024	292.7	.029	6.26	106.8							10
1	12	13.99	13.99	33.490	25.025	292.9	.035	6.27	107.0	0.0	.40	.0	.00	.86	.37	12
	20 ISL	13.99	13.99	33.490	25.024	293.0	.059	6.25	106.3							20
1	27	13.99	13.98	33.490	25.025	293.2	.079	6.17	105.3	0.0	.40	.0	.00	.82	.32	27
	30 ISL	13.98	13.98	33.489	25.025	293.5	.088	6.16	105.1							30
1	42	13.98	13.98	33.489	25.025	293.6	.122	6.16	105.1	0.0	.40	.0	.00	.82	.36	42
	50 ISL	13.70	13.69	33.496	25.089	297.7	.146	5.70	96.7							50
1	57	13.26	13.26	33.508	25.187	278.6	.165	5.20	87.4	5.3	.79	5.6	.34	.70	.62	57
1	72	11.45	11.44	33.575	25.587	240.7	.204	4.10	66.4	14.6	1.35	14.8	.03	.22	.35	72
	75 ISL	11.24	11.24	33.592	25.638	235.9	.212	3.98	64.2							76
1	83	10.91	10.90	33.633	25.729	227.4	.230	3.80	60.8	17.5	1.51	17.5	.02	.10	.20	83
1	98	10.31	10.30	33.726	25.906	210.8	.262	3.45	54.5	21.4	1.71	20.6	.02	.07	.14	98
	100 ISL	10.25	10.24	33.736	25.925	209.1	.268	3.42	53.9							101
1	117	9.89	9.88	33.791	26.029	199.4	.303	3.23	50.6	24.2	1.83	22.8	.01	.04	.11	118
	125 ISL	9.75	9.73	33.824	26.079	194.9	.318	3.13	48.8							126
1	137	9.52	9.50	33.878	26.159	187.4	.342	2.96	46.0	27.9	1.92	24.7	.00	.03	.07	138
	150 ISL	9.22	9.20	33.926	26.246	179.4	.365	2.81	43.5							151
1	158	9.03	9.02	33.954	26.297	174.7	.379	2.73	42.0	31.9	2.05	26.7	.00	.02	.07	159
1	178	8.75	8.73	34.007	26.383	166.8	.413	2.55	39.0	35.0	2.14	28.0	.00	.02	.06	179
1	198	8.44	8.42	34.051	26.466	159.3	.446	2.36	35.8	38.8	2.24	29.5	.00			199
	200 ISL	8.42	8.40	34.053	26.471	158.8	.449	2.35	35.6							202
1	219	8.27	8.25	34.068	26.505	155.8	.479	2.24	33.9	41.3	2.28	30.1	.00			220
	250 ISL	7.93	7.91	34.103	26.583	148.9	.526	1.99	29.9							252
1	254	7.88	7.86	34.108	26.595	147.8	.533	1.95	29.2	46.7	2.45	32.0	.00			256
	300 ISL	7.30	7.27	34.129	26.695	139.8	.598	1.59	23.5							302
1	305	7.23	7.20	34.130	26.706	137.8	.605	1.55	22.9	55.3	2.61	34.9	.00			307
1	361	6.48	6.45	34.147	26.821	127.2	.679	1.09	15.8	65.4	2.84	38.0	.00			363
	400 ISL	6.21	6.17	34.175	26.879	122.1	.728	.86	12.5							403
1	448	5.98	5.94	34.210	26.936	117.1	.785	.67	9.6	76.9	3.05	40.7	.00			451
	500 ISL	5.65	5.60	34.234	26.997	111.7	.845	.53	7.6							504
1	535	5.43	5.38	34.250	27.036	108.2	.883	.47	6.7	86.4	3.14	42.4	.00			539
	600 ISL	5.09	5.04	34.291	27.109	101.7	.951	.37	5.2							605
1	622	4.99	4.94	34.308	27.134	99.5	.974	.34	4.8	96.8	3.21	43.9	.00			627

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 48.7 N	121 49.5 W	02/17/84	1234 GMT		330	29 KT	310 12 09	1	1024.3 MB	12.1 C	8.8 C	5/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.89	13.89	33.487	25.042	290.7	.000	6.16	104.9							0
1	1	13.89	13.89	33.487	25.042	290.8	.003	6.16	104.9	.8	.39	.1	.00	1.04	.33	1
	10 ISL	13.90	13.90	33.485	25.038	291.5	.029	6.16	105.0							10
1	12	13.91	13.90	33.485	25.037	291.6	.035	6.17	105.1	.8	.39	.1	.00	.98	.37	12
	20 ISL	13.90	13.90	33.485	25.038	291.7	.058	6.16	104.9							20
1	26	13.90	13.89	33.484	25.039	291.8	.075	6.15	104.7	.8	.38	.1	.00	.97	.33	26
	30 ISL	13.91	13.90	33.484	25.037	292.3	.087	6.15	104.8							30
1	41	13.91	13.90	33.484	25.036	292.5	.119	6.15	104.8	.9	.39	.1	.00	.95	.34	41
	50 ISL	13.35	13.35	33.496	25.159	281.0	.145	5.52	92.9							50
1	56	12.81	12.80	33.514	25.281	269.5	.161	5.00	83.3	7.8	.95	7.1	.36	.63	.61	56
1	70	10.96	10.95	33.626	25.715	228.4	.196	3.85	61.7	17.8	1.45	17.0	.03	.10	.23	70
	75 ISL	10.87	10.86	33.642	25.743	224.8	.208	3.80	60.7							76
1	80	10.77	10.76	33.654	25.770	223.4	.218	3.74	59.7	19.2	1.47	18.3	.02	.08	.16	80
1	95	10.14	10.13	33.752	25.955	206.0	.250	3.38	53.2	23.1	1.72	21.4	.02	.05	.16	95
	100 ISL	9.98	9.97	33.781	26.007	201.3	.261	3.28	51.5							101
1	114	9.61	9.60	33.848	26.119	190.8	.290	3.08	48.0	27.1	1.89	24.0	.01	.03	.10	115
	125 ISL	9.36	9.35	33.896	26.198	183.5	.310	2.94	45.6							126
1	133	9.18	9.17	33.929	26.253	178.4	.325	2.84	43.8	31.2	1.98	25.9	.01	.03	.09	134
	150 ISL	8.91	8.89	33.980	26.337	170.7	.354	2.65	40.7							151
1	153	8.86	8.84	33.988	26.351	169.4	.359	2.62	40.2	34.0	2.07	27.4	.00	.02	.09	154
1	173	8.56	8.54	34.037	26.432	162.0	.392	2.48	37.8	37.4	2.15	28.5	.00	.01	.06	174
1	194	8.37	8.35	34.062	26.485	157.4	.425	2.29	34.7	39.9	2.24	29.8	.00			195
	200 ISL	8.30	8.27	34.066	26.500	156.0	.435	2.26	34.3							202
1	213	8.14	8.11	34.075	26.531	153.2	.455	2.21	33.3	42.2	2.27	30.7	.00			214
1	248	7.84	7.82	34.119	26.609	146.3	.507	1.87	28.0	47.0	2.45	32.2	.00			249
	250 ISL	7.82	7.80	34.121	26.614	145.9	.510	1.85	27.7							252
1	297	7.34	7.31	34.138	26.697	138.6	.577	1.55	23.0	53.4	2.62	34.2	.00			299
	300 ISL	7.30	7.27	34.137	26.702	138.1	.581	1.53	22.7							302
1	352	6.55	6.52	34.132	26.800	129.1	.650	1.21	17.6	62.6	2.74	37.4	.00			354
	400 ISL	6.15	6.11	34.176	26.887	121.3	.711	.85	12.3							403
1	439	5.93	5.89	34.219	26.950	115.7	.757	.60	8.6	76.8	2.96	40.5	.00			442
	500 ISL	5.54	5.50	34.259	27.022	109.2	.826	.46	6.5							504
1	525	5.40	5.36	34.261	27.048	107.0	.853	.43	6.1	86.6	3.14	42.5	.00			529
	600 ISL	5.05	5.00	34.306	27.125	100.1	.930	.31	4.3							605
1	613	5.00	4.95	34.314	27.137	99.1	.943	.29	4.1	95.3	3.14	43.5	.00			617

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 49.6 N	121 50.4 W	02/17/84	1731 GMT		340	23 KT	320 13 10	1	1025.8 MB	13.2 C	10.5 C	3/8	AC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.88	13.88	33.480	25.039	291.0	.000	6.18	105.2							0
1	1	13.88	13.88	33.480	25.039	291.1	.003	6.18	105.2	1.1	.44	.0	.00	1.14	.70	1
	10 ISL	13.91	13.90	33.479	25.032	292.0	.029	6.16	104.9							10
1	11	13.91	13.91	33.479	25.031	292.1	.032	6.16	104.9	1.1	.39	.0	.00	.62	1.27	11
	20 ISL	13.88	13.88	33.481	25.038	291.7	.058	6.16	104.9							20
1	27	13.86	13.86	33.482	25.044	291.3	.078	6.16	104.8	1.1	.40	.0	.00	1.00	.84	27
	30 ISL	13.87	13.86	33.481	25.043	291.5	.087	6.16	104.8							30
1	42	13.88	13.87	33.479	25.039	292.2	.122	6.14	104.5	1.0	.39	.0	.00	.79	1.02	42
	50 ISL	13.86	13.85	33.481	25.045	291.9	.146	6.10	103.8							50
1	58	13.83	13.82	33.482	25.051	291.6	.168	6.06	103.1	1.3	.42	.4	.03	1.22	.62	58
1	73	11.79	11.78	33.554	25.308	248.3	.209	4.27	69.6	13.7	1.24	13.2	.07	.28	.45	73
	75 ISL	11.53	11.52	33.574	25.371	242.3	.214	4.13	66.9							76
1	83	10.87	10.86	33.641	25.743	226.1	.232	3.81	60.9	18.2	1.46	17.5	.02	.09	.22	83
1	99	10.40	10.39	33.717	25.886	213.0	.267	3.53	55.9	21.6	1.68	20.2	.02	.05	.17	99
	100 ISL	10.36	10.35	33.724	25.897	211.7	.270	3.51	55.5							101
1	118	9.86	9.85	33.810	26.049	197.6	.308	3.23	50.6	25.2	1.83	22.8	.02	.04	.10	119
	125 ISL	9.71	9.70	33.837	26.095	193.4	.321	3.12	48.7							126
1	139	9.42	9.41	33.889	26.193	185.2	.348	2.92	45.3	28.5	1.90	24.9	.01	.03	.11	140
	150 ISL	9.22	9.20	33.927	26.266	179.4	.367	2.83	43.8							151
1	159	9.06	9.04	33.956	26.294	174.9	.384	2.78	42.8	31.2	2.07	26.6	.00	.03	.09	160
1	180	8.74	8.72	34.007	26.384	166.7	.419	2.64	40.4	34.7	2.08	27.8	.00	.02	.07	181
1	200	8.49	8.47	34.043	26.452	160.7	.452	2.46	37.4	37.9	2.21	28.8	.00			201
1	221	8.18	8.16	34.072	26.521	154.3	.485	2.28	34.4	41.6	2.29	30.3	.00			222
	250 ISL	7.83	7.81	34.118	26.610	146.3	.529	1.89	28.4							252
1	256	7.77	7.74	34.127	26.627	144.8	.538	1.81	27.1	48.1	2.47	32.6	.00			258
	300 ISL	7.30	7.27	34.144	26.707	137.6	.600	1.57	23.2							302
1	307	7.23	7.20	34.144	26.718	136.7	.609	1.54	22.8	54.8	2.67	34.7	.00			309
1	365	6.65	6.61	34.169	26.817	127.8	.685	1.15	16.8	63.1	2.77	37.2	.00			367
	400 ISL	6.41	6.38	34.183	26.859	124.1	.730	.98	14.3							403
1	451	6.11	6.07	34.205	26.915	119.3	.792	.81	11.7	72.8	3.04	39.9	.00			454
	500 ISL	5.73	5.68	34.232	26.985	112.9	.849	.68	9.7							504
1	538	5.44	5.39	34.256	27.040	108.0	.891	.61	8.6	85.4	3.11	42.2	.00			542
	600 ISL	5.12	5.08	34.299	27.111	101.6	.956	.52	7.4							605
1	625	5.03	4.98	34.317	27.136	99.4	.981	.50	7.0	94.6		43.2	.00			630

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 29.4 N	122 32.7 W	02/18/84	0019 GMT		330	20 KT	330 14 09	1	1024.3 MB	13.2 C	10.4 C	2/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.02	14.02	33.270	24.846	309.4	.000	6.09	103.8							0
1	1	14.02	14.02	33.270	24.846	309.4	.003	6.09	103.8	2.3	.39	.3	.00	.19	.10	1
	10 ISL	14.03	14.03	33.270	24.845	309.8	.031	6.14	104.7							10
1	11	14.03	14.03	33.270	24.845	309.9	.034	6.14	104.7	2.2	.41	.2	.00	.19	.10	11
	20 ISL	14.04	14.03	33.272	24.846	310.0	.062	6.11	104.2							20
1	26	14.04	14.03	33.273	24.846	310.1	.080	6.08	103.7	2.2	.40	.2	.00	.20	.10	26
	30 ISL	14.05	14.04	33.272	24.844	310.6	.093	6.08	103.7							30
1	42	14.05	14.04	33.272	24.844	310.8	.130	6.08	103.7	2.2	.40	.2	.00	.18	.10	42
	50 ISL	13.82	13.81	33.290	24.906	305.1	.155	5.87	99.6							50
1	57	13.48	13.48	33.316	24.994	296.9	.175	5.61	94.6	4.5	.61	2.7	.07	.33	.28	57
1	72	12.22	12.21	33.425	25.326	265.6	.217	4.90	80.5	8.3	.90	8.5	.02	.08	.13	72
	75 ISL	12.02	12.01	33.445	25.380	260.5	.226	4.78	78.3							76
1	82	11.66	11.65	33.482	25.476	251.5	.243	4.56	74.1	11.4	1.13	11.8	.01	.06	.09	82
1	97	10.89	10.88	33.565	25.680	232.4	.279	3.99	63.8	16.1	1.42	16.6	.00	.02	.05	97
	100 ISL	10.78	10.77	33.578	25.709	229.6	.287	3.93	62.7							101
1	116	10.35	10.34	33.639	25.832	218.3	.324	3.72	58.8	18.8	1.60	19.4	.01	.02	.04	117
	125 ISL	10.11	10.10	33.694	25.916	210.4	.342	3.53	55.5							126
1	137	9.77	9.76	33.775	26.036	199.2	.367	3.27	51.1	24.2	1.82	22.9	.00	.01	.02	138
	150 ISL	9.44	9.43	33.834	26.137	189.8	.392	3.22	49.9							151
1	157	9.25	9.24	33.861	26.189	185.0	.406	3.12	48.2	27.8	1.87	24.9	.00	.01	.02	158
1	177	8.65	8.63	33.925	26.335	171.3	.441	3.61	55.0	29.0	1.84	24.4	.01	.01	.02	178
1	198	8.40	8.38	33.974	26.412	164.4	.476	3.46	52.5	31.5	1.89	25.4	.01			199
	200 ISL	8.38	8.36	33.978	26.418	163.8	.479	3.42	51.9							202
1	218	8.22	8.20	34.006	26.464	159.7	.508	3.06	46.2	35.0	2.06	27.3	.01			219
	250 ISL	7.92	7.89	34.038	26.535	153.4	.559	2.73	40.9							252
1	256	7.88	7.86	34.041	26.542	152.8	.564	2.70	40.5	40.1	2.19	29.5	.01			255
	300 ISL	7.21	7.19	34.057	26.650	142.9	.633	2.23	32.9							302
1	304	7.15	7.13	34.058	26.659	142.1	.639	2.18	32.1	50.0	2.40	32.8	.00			306
1	360	6.66	6.62	34.102	26.762	132.8	.715	1.47	21.4	58.3	2.75	36.3	.00			362
	400 ISL	6.21	6.17	34.114	26.831	126.6	.767	1.14	16.5							403
1	447	5.73	5.69	34.131	26.904	119.8	.825	.87	12.4	74.3	2.93	40.6	.00			450
	500 ISL	5.48	5.43	34.190	26.982	112.9	.887	.59	8.4							504
1	535	5.35	5.31	34.231	27.030	108.7	.926	.45	6.4	84.5	3.17	42.4	.00			539
	600 ISL	5.03	4.98	34.277	27.104	102.0	.994	.42	5.9							605
1	622	4.91	4.86	34.287	27.126	100.1	1.016	.32	4.5	95.1	3.25	43.9	.00			626

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 09.5 N	123 14.2 W	02/18/84	0601 GMT		330	23 KT	330 13 08	1	1025.2 MB	13.1 C	9.9 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.19	14.19	33.155	24.723	321.1	.000	5.96	101.9							0
1	1	14.19	14.19	33.155	24.723	321.2	.003	5.96	101.9	2.8	.37	.2	.00	.18	.09	1
	10 ISL	14.20	14.19	33.149	24.718	321.9	.032	6.09	104.2							10
1	12	14.20	14.19	33.149	24.717	322.0	.038	6.11	104.5	2.8	.37	.1	.00	.15	.08	12
	20 ISL	14.19	14.19	33.149	24.719	322.1	.064	6.10	104.3							20
1	27	14.19	14.18	33.149	24.720	322.2	.087	6.09	104.1	2.8	.37	.1	.00	.18	.11	27
	30 ISL	14.18	14.17	33.152	24.724	322.1	.097	6.08	104.0							30
1	41	14.17	14.17	33.153	24.726	322.1	.131	6.08	103.9	2.8	.37	.1	.00	.18	.13	41
	50 ISL	14.08	14.07	33.210	24.791	316.1	.161	6.07	103.6							50
1	56	13.98	13.97	33.250	24.843	311.3	.179	6.06	103.2	2.8	.40	.3	.02	.51	.31	56
1	71	13.58	13.57	33.290	24.955	301.0	.225	5.67	95.8	4.1	.54	2.1	.11	.30	.27	71
	75 ISL	13.28	13.26	33.299	25.023	294.6	.237	5.49	92.2							76
1	81	12.84	12.83	33.313	25.121	285.4	.254	5.24	87.2	6.5	.72	5.5	.02	.14	.16	81
1	97	11.90	11.88	33.391	25.362	262.8	.297	4.72	77.0	10.1	.99	10.2	.02	.08	.12	97
	100 ISL	11.74	11.73	33.408	25.403	258.9	.306	4.63	75.4							101
1	116	11.06	11.05	33.496	25.596	240.8	.348	4.29	68.8	13.7	1.25	14.5	.02	.04	.06	117
	125 ISL	10.64	10.63	33.549	25.711	230.0	.368	4.18	66.4							126
1	136	10.12	10.10	33.627	25.864	215.6	.393	4.01	63.1	18.7	1.48	18.7	.02	.03	.06	137
	150 ISL	9.68	9.66	33.736	26.022	200.8	.421	3.84	56.7							151
1	156	9.52	9.50	33.782	26.084	194.9	.434	3.46	53.7	24.6	1.72	22.9	.02	.01	.02	157
1	176	9.06	9.04	33.867	26.226	181.8	.471	3.14	48.3	29.0	1.87	25.3	.02	.02	.03	177
1	196	8.82	8.80	33.946	26.325	172.7	.506	2.94	45.0	32.3	1.97	26.4	.02			197
	200 ISL	8.74	8.72	33.956	26.345	170.8	.513	2.94	45.0							202
1	217	8.39	8.37	33.991	26.427	163.3	.541	2.98	45.2	34.8	1.98	27.3	.02			218
	250 ISL	7.85	7.82	34.036	26.542	152.7	.594	2.65	39.7							252
1	252	7.83	7.80	34.037	26.547	152.2	.596	2.63	39.4	42.0	2.15	29.8	.01			253
	300 ISL	7.15	7.12	34.063	26.665	141.5	.667	2.08	30.6							302
1	302	7.12	7.09	34.064	26.669	141.1	.670	2.05	30.2	51.7	2.43	33.5	.00			304
1	358	6.55	6.52	34.094	26.770	132.0	.746	1.42	20.6	61.4	2.69	37.0	.00			360
	400 ISL	6.21	6.18	34.116	26.832	126.5	.801	1.11	16.0							403
1	445	5.90	5.86	34.141	26.891	121.2	.857	.87	12.5	73.9	2.91	40.3	.00			448
	500 ISL	5.54	5.50	34.179	26.967	114.5	.921	.63	8.9							504
1	533	5.33	5.29	34.204	27.011	110.5	.959	.52	7.3	85.7	3.09	42.7	.00			537
	600 ISL	4.96	4.91	34.250	27.091	103.2	1.030	.39	5.5							605
1	622	4.85	4.80	34.264	27.115	101.0	1.052	.38	5.3	98.0	3.18	43.8	.00			626

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 51.2 N	123 51.9 W	02/18/84	1215 GMT		340	21 KT	330 11 09	1	1024.3 MB	12.5 C	10.0 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.55	14.55	33.160	24.652	327.9	.000	6.00	103.3	2.8	.38	.3	.00	.10	.05	0
1	10	14.58	14.58	33.160	24.645	328.8	.033	5.94	102.4	2.8	.40	.2	.00	.10	.05	10
	20 ISL	14.58	14.57	33.160	24.646	329.2	.066	5.96	102.7							20
1	25	14.57	14.57	33.159	24.646	329.2	.082	5.98	103.1	2.7	.38	.1	.00	.09	.05	25
	30 ISL	14.55	14.55	33.153	24.646	329.3	.099	5.98	103.1							30
1	40	14.54	14.54	33.153	24.648	329.4	.131	5.99	103.1	2.7	.37	.0	.00	.10	.06	40
	50 ISL	14.08	14.07	33.143	24.739	322.7	.164	6.00	102.4							50
1	55	13.89	13.88	33.123	24.763	318.9	.180	6.01	102.1	2.9	.40	.1	.00	.36	.31	55
1	70	14.15	14.14	33.308	24.851	311.0	.227	6.05	103.4	2.8	.41	.1	.01	.36	.22	70
	75 ISL	14.03	14.02	33.310	24.879	308.1	.243	6.01	102.4							76
1	80	13.85	13.84	33.312	24.916	305.0	.257	5.94	100.9	2.9	.45	.6	.10	.37	.32	80
1	95	13.09	13.08	33.343	25.095	288.3	.302	5.53	92.5	5.1	.59	3.1	.08	.17	.20	95
	100 ISL	12.70	12.69	33.355	25.180	280.3	.317	5.33	88.6							101
1	114	11.66	11.65	33.401	25.413	258.3	.356	4.79	77.8	10.1	1.00	10.2	.01	.04	.06	115
	125 ISL	11.10	11.08	33.447	25.552	245.2	.382	4.53	72.7							126
1	135	10.65	10.63	33.507	25.679	233.3	.407	4.29	68.2	14.6	1.26	14.9	.01	.01	.06	136
	150 ISL	10.13	10.11	33.633	25.866	215.8	.440	3.82	60.0							151
1	155	9.99	9.97	33.680	25.927	210.0	.451	3.64	57.1	21.7	1.63	20.7	.01	.01	.02	156
1	175	9.68	9.66	33.819	26.087	195.1	.491	3.09	48.2	27.3	1.81	23.9	.01	.00	.03	176
1	195	9.14	9.11	33.915	26.251	179.8	.529	2.86	44.1	30.7	1.98	26.4	.01			196
	200 ISL	9.06	9.04	33.930	26.274	177.7	.538	2.82	43.4							202
1	215	8.88	8.86	33.962	26.328	172.8	.564	2.74	42.0	32.6	2.03	27.4	.01			216
	250 ISL	8.26	8.23	34.021	26.471	159.7	.622	2.68	40.5							252
1	251	8.24	8.22	34.021	26.473	159.4	.623	2.68	40.5	38.2	2.12	28.8	.01			252
	300 ISL	7.55	7.52	34.040	26.590	148.9	.699	2.46	36.6							302
1	301	7.53	7.50	34.040	26.593	148.7	.701	2.45	36.4	45.2	2.26	31.3	.01			303
1	357	7.06	7.03	34.099	26.706	138.5	.781	1.67	24.6	54.9	2.57	35.0	.00			359
	400 ISL	6.59	6.56	34.119	26.784	131.3	.839	1.26	18.3							403
1	445	6.12	6.08	34.132	26.857	124.7	.897	.96	13.8	69.4	2.89	39.1	.00			448
	500 ISL	5.70	5.66	34.157	26.929	118.2	.964	.71	10.1							504
1	532	5.51	5.46	34.176	26.968	114.7	1.001	.63	9.9	81.2	3.03	41.8	.00			536
	600 ISL	5.19	5.14	34.231	27.050	107.4	1.076	.63	9.1							605
1	620	5.12	5.07	34.251	27.074	105.3	1.097			91.2	3.16	43.4	.00			624

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 92 46

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 16.2 N	119 56.2 W	02/19/84	2038 GMT	529 M	270	09 KT	240 01 07	1	1022.0 MB	16.2 C	13.9 C	1/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.10	14.10	33.523	25.025	292.4	.000	6.25	106.9	2.8	.39	.5	.02	3.03	.40	0
1	10	13.70	13.70	33.523	25.108	284.8	.029	6.12	103.8	3.6	.46	1.4	.04	3.16	.72	10
1	19	13.26	13.26	33.529	25.202	276.1	.054	5.53	93.0	5.6	.67	4.9	.06	1.17	.57	19
	20 ISL	13.13	13.12	33.530	25.230	273.5	.057	5.39	90.4							20
1	30	11.95	11.95	33.538	25.464	251.4	.083	4.29	70.2	10.0	1.09	12.2	.01	.17	.15	30
1	40	11.75	11.75	33.553	25.513	246.9	.107	4.20	68.4	10.5	1.14	12.9	.01	.11	.13	40
1	50	11.59	11.58	33.575	25.561	242.6	.132	4.13	67.0	11.6	1.19	13.9	.01	.07	.12	50
1	60	11.33	11.32	33.605	25.632	236.1	.156	3.97	64.1	12.9	1.26	15.3	.01	.07	.08	60
1	75	10.60	10.59	33.727	25.857	214.9	.189	3.44	54.7	18.8	1.56	19.7	.01	.05	.15	75
1	90	10.34	10.33	33.751	25.920	209.3	.221	3.39	53.6	19.9	1.60	20.7	.00	.03	.08	90
	100 ISL	10.25	10.23	33.773	25.954	206.3	.243	3.29	52.0							101
1	115	10.06	10.05	33.818	26.021	200.2	.274	3.10	48.7	23.2	1.72	22.7	.00	.02	.11	116
	125 ISL	9.81	9.79	33.864	26.100	192.9	.293	2.96	46.3							126
1	135	9.52	9.51	33.913	26.186	184.9	.312	2.82	43.8	26.5	1.87	25.2	.00	.01	.06	136
	150 ISL	9.26	9.25	33.956	26.262	178.0	.339	2.67	41.3							151
1	165	9.08	9.07	33.985	26.313	173.3	.365	2.55	39.3	30.8	1.99	27.4	.00	.01	.07	166
1	195	8.87	8.85	34.022	26.376	167.9	.416	2.38	36.5	33.1	2.09	28.3	.00			196
	200 ISL	8.83	8.81	34.028	26.387	166.9	.425	2.35	36.1							202
1	224	8.62	8.60	34.053	26.440	162.2	.464	2.20	33.5	36.6	2.18	29.1	.00			225
	250 ISL	8.30	8.27	34.089	26.518	155.2	.506	1.87	28.4							252
1	263	8.13	8.10	34.107	26.558	151.6	.526	1.70	25.6	44.3	2.39	31.5	.00			265
	300 ISL	7.71	7.68	34.133	26.641	144.2	.580	1.43	21.4							302
1	323	7.45	7.42	34.143	26.686	140.1	.613	1.29	19.2	54.1	2.60	33.8	.00			325
1	378	6.83	6.80	34.173	26.795	130.2	.687	.82	12.0	66.1	2.85	35.4	.00			380
	400 ISL	6.66	6.63	34.179	26.823	127.7	.716	.68	9.9							403
1	437	6.45	6.41	34.188	26.859	124.7	.762	.51	7.4	76.6	3.08	35.3	.00			440
1	500	6.17	6.13	34.207	26.910	120.5	.839	.36	5.2	83.3	3.14	35.1	.00			503

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 40.6

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 13.5 N	119 24.7 W	02/20/84	0645 GMT	31 M	270	06 KT	230 02 11		1023.0 MB	15.6 C	13.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.75	14.75	33.493	24.866	307.9	.000	5.95	103.1							0
1	1	14.75	14.75	33.493	24.866	307.6	.003	5.95	103.1	2.3	.36	.2	.00	1.24	.43	1
	10 ISL	14.75	14.75	33.493	24.866	307.6	.031	5.96	103.3							10
1	11	14.75	14.74	33.492	24.865	307.9	.034	6.04	104.7	2.3	.37	.2	.00	1.26	.51	11
	20 ISL	14.71	14.71	33.496	24.876	307.1	.062	6.02	104.2							20
1	21	14.35	14.35	33.498	24.955	299.7	.064	5.79	99.5	3.5	.45	1.3	.05	1.22	.66	21

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 42

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 10.7 N	119 30.5 W	02/20/84	0841 GMT	110 M	330	09 KT	300 02 11		1023.4 MB	14.7 C	13.0 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.42	14.42	33.510	24.949	299.7	.000	5.95	102.4	3.4	.41	.6	.01	1.36	.68	0
	10 ISL	14.23	14.22	33.510	24.990	296.0	.030	5.91	101.4							10
1	11	14.22	14.21	33.510	24.992	295.8	.033	5.91	101.3	3.7	.45	1.1	.04	1.71	.62	11
1	20	14.18	14.18	33.511	25.000	295.4	.059	5.90	101.1	3.8	.45	1.1	.05	1.58	.71	20
1	29	14.04	14.04	33.514	25.032	292.6	.085	5.77	98.6	4.1	.49	1.8	.05	1.06	.92	29
	30 ISL	13.98	13.97	33.515	25.046	291.2	.089	5.69	97.1							30
1	41	13.05	13.05	33.526	25.242	272.8	.119	4.84	81.0	8.2	.84	7.5	.16	.32	.21	41
	50 ISL	11.90	11.89	33.521	25.461	252.2	.143	4.39	71.8							50
1	51	11.82	11.81	33.521	25.477	250.7	.145	4.37	71.3	10.6	1.08	12.1	.02	.11	.16	51
1	61	11.60	11.59	33.532	25.525	246.1	.170	4.30	69.8	11.1	1.14	12.9	.01	.11	.15	61
1	72	11.15	11.14	33.581	25.646	235.1	.196	4.08	65.6	13.2	1.27	15.1	.01	.07	.08	72
	75 ISL	11.07	11.06	33.604	25.678	232.0	.204	4.00	64.3							76
1	82	10.67	10.86	33.655	25.754	225.0	.219	3.83	61.2	16.0	1.38	17.4	.00	.05	.07	82
1	92	10.24	10.23	33.739	25.930	208.4	.241	3.49	55.1	19.7	1.58	20.7	.00	.01	.06	92

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 51

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 52.6 N	120 08.0 W	02/20/84	1407 GMT	97 M	110	19 KT	290 03 08		1022.4 MB	17.0 C	13.9 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.15	14.15	33.502	24.999	294.9	.000	5.64	96.6	3.5	.48	2.3	.03	.87	.33	0
1	10	14.13	14.13	33.502	25.003	294.8	.029	5.79	99.1	3.5	.50	2.4	.03	.92	.35	10
1	20	14.02	14.02	33.505	25.030	292.5	.059	5.62	96.0	4.2	.54	2.9	.03	.91	.35	20
1	30	13.81	13.80	33.513	25.079	288.1	.087	5.49	93.3	4.7	.58	3.6	.05	.87	.34	30
1	40	13.60	13.60	33.516	25.124	284.1	.116	5.40	91.4	5.6	.62	4.4		.87	.29	40
1	50	13.45	13.44	33.516	25.156	281.3	.144	5.29	89.3	6.0	.68	5.1		.75	.33	50
1	60	12.64	12.63	33.547	25.341	264.0	.171	4.83	80.2	9.3	.91	9.1		.44	.32	60
1	75	11.29	11.28	33.637	25.663	233.5	.208	4.05	65.4	14.9	1.27	15.4		.22	.15	75

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 44.6 N	120 24.5 W	02/20/84	1742 GMT	1082 M	090	13 KT	290 03 09	1	1023.4 MB	18.0 C	15.1 C	1/8 CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.40	13.40	33.494	25.146	280.9	.000	5.83	98.3	3.6	.46	2.0		1.04	.33	0
	10 ISL	13.40	13.40	33.492	25.146	281.2	.029	5.84	98.4							10
1	11	13.40	13.40	33.492	25.146	281.2	.031	5.94	100.1	3.7	.50	2.6		1.48	.35	11
1	20	13.40	13.40	33.493	25.147	281.4	.056	5.80	97.8	4.3	.54	3.5		1.14	.60	20
1	30	13.40	13.39	33.499	25.153	281.1	.084	5.66	95.4	4.7	.56	3.5		.95	.70	30
1	40	13.38	13.38	33.499	25.156	281.1	.112	5.61	94.5	5.0	.59	4.0		.94	.62	40
	50 ISL	12.76	12.75	33.511	25.290	268.6	.140	5.07	84.2							50
1	51	12.69	12.68	33.513	25.304	267.2	.142	5.01	83.2	8.1	.84	8.1		.44	.41	51
1	60	11.78	11.77	33.544	25.501	248.6	.165	4.32	70.4	11.3	1.10	12.7		.24	.21	60
1	71	10.89	10.88	33.623	25.725	227.5	.191	3.86	61.7	15.9	1.33	16.9		.08	.19	71
	75 ISL	10.64	10.63	33.656	25.795	220.8	.201	3.72	59.2							76
1	85	10.22	10.21	33.727	25.923	208.9	.221	3.47	54.7	20.7	1.54	20.6		.04	.11	85
	100 ISL	9.85	9.84	33.813	26.052	196.9	.253	3.10	48.5							101
1	101	9.83	9.82	33.820	26.061	196.1	.256	3.07	48.0	24.1	1.70	22.9		.01	.09	102
1	120	9.56	9.54	33.883	26.156	187.4	.292	2.99	46.5	26.7	1.81	24.3		.01	.08	121
	125 ISL	9.46	9.45	33.902	26.187	184.6	.300	2.93	45.5							126
1	146	9.02	9.00	33.979	26.319	172.4	.338	2.64	40.6	31.4	1.96	26.9		.00	.06	147
	150 ISL	8.96	8.94	33.990	26.337	170.7	.345	2.60	39.9							151
1	175	8.63	8.61	34.040	26.427	162.5	.387	2.40	36.6	35.4	2.06	28.7				176
	200 ISL	8.41	8.39	34.050	26.469	158.9	.427	2.32	35.2							202
1	205	8.37	8.35	34.050	26.476	158.4	.434	2.31	35.0	38.2	2.12	29.6				206
1	236	8.08	8.06	34.077	26.541	152.6	.482	2.17	31.9	41.5	2.22	30.7				237
	250 ISL	7.97	7.94	34.094	26.572	150.0	.504	1.98	29.8							252
1	276	7.77	7.74	34.125	26.625	145.3	.543	1.72	25.7	47.6	2.40	32.6				278
	300 ISL	7.59	7.56	34.145	26.666	141.7	.577	1.55	23.1							302
1	337	7.26	7.23	34.163	26.728	136.2	.628	1.33	19.7	55.3	2.55	34.9				339
	400 ISL	6.33	6.29	34.165	26.856	124.3	.710	.91	13.2							403
1	411	6.16	6.13	34.166	26.877	122.3	.724	.84	12.1	69.9	2.83	39.0				414
1	486	5.77	5.73	34.226	26.975	113.7	.912	.52	7.4	79.5	2.98	40.8				489
	500 ISL	5.69	5.65	34.235	26.992	112.2	.828	.48	6.8							504
1	560	5.32	5.27	34.261	27.058	106.3	.894	.39	5.5	88.5	3.08	42.4				564

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 34.7 N	120 45.3 W	02/20/84	2251 GMT	1295 M	350	09 KT	330 04 06	1	1022.4 MB	16.4 C	13.4 C	1/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.38	14.38	33.346	24.831	311.9	.000	6.01	103.3							0
1	1	14.38	14.38	33.346	24.831	311.0	.003	6.01	103.3	.9	.33	.1	.01	.46	.18	1
1	10	14.08	14.08	33.349	24.895	305.1	.031	6.05	103.3	.9	.33	.0	.00	.37	.18	10
1	20	14.03	14.03	33.349	24.907	304.2	.061	6.07	103.6	.8	.33	.0	.00	.47	.23	20
1	30	14.01	14.01	33.347	24.909	304.2	.091	6.04	103.0	.7	.33	.0	.00	.53	.29	30
1	40	13.93	13.92	33.344	24.925	303.1	.122	5.93	101.0	.8	.36	.3	.01	.66	.27	40
1	50	13.84	13.83	33.343	24.942	301.7	.152	5.88	99.9	1.0	.39	.6	.02	.73	.29	50
1	60	13.73	13.72	33.343	24.965	299.8	.181	5.79	98.2	1.4	.41	1.1	.03	.58	.32	60
1	71	12.08	12.07	33.397	25.332	265.0	.212	4.79	78.5	7.2	.88	8.9	.04	.23	.20	71
	75 ISL	11.75	11.74	33.423	25.414	257.3	.224	4.57	74.4							76
1	86	11.29	11.28	33.486	25.548	244.8	.250	4.25	68.5	11.3	1.16	13.7	.01	.08	.13	86
	100 ISL	10.76	10.75	33.562	25.701	230.4	.284	3.99	63.6							101
1	101	10.74	10.73	33.565	25.706	229.9	.286	3.98	63.4	14.3	1.33	16.7	.01	.04	.07	101
1	120	10.00	9.98	33.673	25.919	210.0	.329	3.67	57.6	19.0	1.55	20.4	.00	.01	.05	121
	125 ISL	9.83	9.82	33.705	25.972	205.1	.339	3.58	56.0							126
1	146	9.21	9.19	33.848	26.186	185.0	.380	3.18	49.1	25.9	1.78	24.4	.00	.01	.03	147
	150 ISL	9.15	9.14	33.869	26.211	182.7	.387	3.11	47.9							151
1	176	8.84	8.82	33.979	26.347	170.2	.433	2.69	41.2	31.6	1.98	27.2	.00			177
	200 ISL	8.27	8.25	34.026	26.477	158.6	.473	2.60	39.3							202
1	206	8.13	8.11	34.036	26.500	156.0	.482	2.56	38.6		2.10	29.2	.00			207
1	235	7.82	7.79	34.113	26.608	146.2	.525	1.82	27.3	45.5	2.37	32.3	.00			236
	250 ISL	7.70	7.67	34.133	26.641	143.3	.548	1.64	24.5							252
1	272	7.54	7.51	34.148	26.677	140.2	.579	1.48	22.0	50.6	2.53	33.8	.00			274
	300 ISL	7.28	7.25	34.169	26.730	135.5	.617	1.14	16.9							302
1	330	6.98	6.95	34.188	26.786	130.5	.657	.82	12.1	59.4	2.70	36.4	.00			332
	400 ISL	6.46	6.42	34.227	26.888	121.5	.745	.81	11.8							403
1	404	6.43	6.40	34.229	26.893	121.0	.751	.73	10.6	68.9	2.89	38.6	.00			407
1	480	6.04	5.99	34.245	26.957	115.7	.840	.56	8.0		2.98	40.3	.00			483
	500 ISL	5.94	5.89	34.253	26.976	114.0	.863	.52	7.5							504
1	558	5.67	5.62	34.286	27.036	108.9	.928	.43	6.1	84.3	3.07	41.6	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 24.7 N	121 05.9 W	02/24/84	1152 GMT	3540 M	340	22 KT	330 06 08		1020.7 MB	13.3 C	12.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.02	14.02	33.303	24.872	306.9	.000	5.93	101.1							0
1	1	14.02	14.02	33.303	24.872	307.3	.003	5.93	101.1	1.5	.36	.0	.00	.45	.18	1
	10 ISL	14.05	14.04	33.303	24.867	307.7	.031	5.95	101.6							10
1	12	14.05	14.05	33.303	24.867	307.8	.037	6.05	103.2	1.6	.35	.0	.00	.45	.20	12
	20 ISL	14.05	14.05	33.303	24.867	308.0	.062	5.97	101.9							20
1	21	14.05	14.05	33.303	24.867	308.0	.064	5.96	101.7	1.6	.34	.0	.00	.51	.25	21
	30 ISL	14.05	14.04	33.303	24.867	308.1	.092	5.96	101.7							30
1	32	14.05	14.04	33.302	24.867	308.3	.098	5.96	101.7	1.6	.35	.0	.00	.45	.19	32
1	42	13.97	13.97	33.312	24.891	306.4	.129	5.89	100.3	1.8	.37	.3	.02	.43	.24	42
	50 ISL	13.37	13.36	33.372	25.060	290.4	.153	5.47	92.0							50
1	51	13.30	13.29	33.378	25.079	288.7	.155	5.42	91.1	3.8	.59	3.2	.07	.37	.28	51
1	62	12.48	12.47	33.496	25.255	272.1	.186	5.04	83.3	6.0	.76	6.6	.02	.27	.19	62
1	71	12.09	12.09	33.426	25.351	263.2	.210	4.73	77.5	8.3	.92	9.3	.02	.18	.22	71
	75 ISL	11.85	11.84	33.436	25.405	258.2	.221	4.67	76.1							76
1	86	11.26	11.25	33.466	25.537	245.7	.248	4.57	73.6	10.5	1.05	12.1	.01	.07	.10	86
	100 ISL	10.72	10.71	33.545	25.695	231.0	.282	4.27	68.0							101
1	102	10.67	10.66	33.554	25.711	229.5	.286	4.23	67.3	13.8	1.24	15.4	.01	.03	.05	102
1	121	9.94	9.92	33.695	25.946	207.4	.329	3.59	56.3		1.56	20.7	.00	.01	.03	122
	125 ISL	9.86	9.84	33.717	25.977	204.6	.337	3.51	54.9							126
1	146	9.45	9.43	33.828	26.131	190.3	.379	3.14	48.7	25.8	1.79	24.0	.00	.02	.04	147
	150 ISL	9.36	9.34	33.848	26.161	187.5	.386	3.08	47.7							151
1	176	8.74	8.72	33.955	26.344	170.5	.432	2.81	42.9	32.1	1.96	27.1	.00			177
	200 ISL	8.33	8.31	33.984	26.430	162.7	.472	2.88	43.6							202
1	206	8.24	8.22	33.986	26.445	161.2	.482	2.91	44.0	35.3	1.99	27.9	.00			207
1	237	7.69	7.67	34.021	26.553	151.3	.530	2.80	41.8		2.09	29.4	.00			238
	250 ISL	7.53	7.50	34.029	26.584	148.5	.550	2.68	39.8							252
1	276	7.26	7.24	34.041	26.631	144.3	.585	2.38	35.2	47.6	2.25	31.6	.00			276
	300 ISL	6.94	6.91	34.060	26.691	138.9	.622	1.96	28.8							302
1	334	6.56	6.53	34.088	26.763	132.3	.669	1.43	20.8	60.4	2.60	36.4	.00			336
	400 ISL	6.25	6.21	34.141	26.847	125.1	.753	.98	14.2							403
1	408	6.22	6.19	34.148	26.856	124.3	.763	.95	13.7	68.4	2.81	38.5	.00			411
1	484	5.89	5.85	34.239	26.970	114.3	.853	.50	7.2	78.6	3.02	40.5	.00			487
	500 ISL	5.82	5.78	34.254	26.992	112.6	.872	.39	5.6							504
1	560	5.55	5.50	34.295	27.057	106.7	.937	.36	5.1	87.0	3.08	41.8	.00			564

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 14.7 N	121 26.5 W	02/24/84	0703 GMT	3730 M	340	18 KT	330 08 06	0	1021.7 MB	13.2 C	12.4 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.74	13.74	33.373	24.984	296.2	.000	6.09	103.3							0
1	1	13.74	13.74	33.373	24.984	296.4	.003	6.09	103.5	1.0	.36	.1	.01	1.28	.32	1
	10 ISL	13.77	13.76	33.372	24.979	297.1	.030	6.22	105.6							10
1	11	13.77	13.77	33.372	24.978	297.2	.032	6.23	105.7	.9	.37	.0	.01	1.02	.50	11
	20 ISL	13.77	13.77	33.376	24.981	297.2	.059	6.17	104.7							20
1	27	13.77	13.77	33.379	24.983	297.2	.080	6.08	103.2	1.1	.36	.0	.00	1.15	.51	27
	30 ISL	13.75	13.74	33.392	24.999	295.8	.089	6.03	102.2							30
1	41	13.45	13.44	33.430	25.089	287.5	.121	5.71	96.3	2.2	.49	1.7	.06	1.36	.74	41
	50 ISL	12.78	12.77	33.420	25.214	275.8	.166	5.14	85.5							50
1	57	12.16	12.15	33.403	25.321	265.7	.165	4.75	78.0	8.1	.91	9.0	.03	.39	.31	57
1	66	11.32	11.31	33.386	25.464	252.2	.188	4.56	73.5	10.3	1.07	12.1	.02	.39	.52	66
	75 ISL	10.93	10.92	33.428	25.566	242.7	.211	4.45	71.2							76
1	76	10.92	10.91	33.433	25.572	242.1	.212	4.44	71.0	12.7	1.19	14.3	.02	.08	.13	76
1	92	10.59	10.58	33.620	25.776	223.1	.250	3.74	59.4	17.2	1.43	18.4	.01	.04	.14	92
	100 ISL	10.47	10.46	33.684	25.846	216.6	.268	3.51	55.6							101
1	106	10.39	10.38	33.720	25.889	212.6	.282	3.38	53.5	20.3	1.58	20.7	.01	.05	.10	107
1	121	10.11	10.10	33.783	25.985	203.7	.313	3.22	50.7	22.3	1.69	22.2	.01	.04	.10	122
	125 ISL	10.03	10.01	33.795	26.009	201.6	.320	3.19	50.1							126
1	147	9.45	9.43	33.852	26.150	188.6	.364	3.03	47.0	26.3	1.84	24.9	.01	.04	.08	148
	150 ISL	9.37	9.36	33.860	26.169	186.8	.369	3.01	46.6							151
1	166	8.96	8.94	33.912	26.275	176.8	.398	2.92	44.8	30.4	1.92	26.5	.01	.03	.06	167
1	186	8.64	8.62	33.992	26.388	166.4	.432	2.91	44.4	32.1	1.97	27.4	.01			187
	200 ISL	8.50	8.48	34.005	26.420	163.7	.455	2.83	43.1							202
1	205	8.45	8.44				.464	2.80	42.5	34.5	2.02	28.2	.00			207
1	237	7.95	7.93	34.025	26.519	154.7	.514	2.77	41.6	38.7	2.09	29.4	.00			238
	250 ISL	7.72	7.69	34.030	26.558	151.2	.534	2.65	39.5							252
1	276	7.29	7.26	34.040	26.626	144.8	.573	2.34	34.6	46.5	2.26	32.1	.00			278
	300 ISL	7.04	7.02	34.050	26.668	141.1	.607	2.11	31.0							302
1	336	6.75	6.72	34.065	26.720	136.6	.657	1.77	25.9	55.9	2.51	35.2	.00			338
	400 ISL	6.14	6.11	34.102	26.830	126.7	.741	1.17	16.8							403
1	410	6.06	6.02	34.110	26.846	125.1	.756	1.08	15.5	69.2	2.80	39.0	.00			413
1	485	5.72	5.68	34.207	26.966	114.6	.843	.57	8.1	79.1	3.01	41.2	.00			488
	500 ISL	5.65	5.61	34.223	26.988	112.6	.861	.47	6.6							504
1	559	5.38	5.33	34.276	27.063	106.0	.925	.44	6.2	88.0	3.11	42.5	.00			563

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 54.3 N	122 07.9 W	02/20/84	0201 GMT		350	20 KT	350 08 07	1	1020.4 MB	14.6 C	13.4 C	5/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.80	14.79	33.224	24.648	328.3	.000	6.06	104.9							0
1	1	14.80	14.79	33.224	24.648	328.3	.003	6.06	104.9	2.2	.35	.0	.00	.10	.05	1
	10 ISL	14.80	14.80	33.222	24.645	328.9	.033	6.15	106.6							10
1	11	14.81	14.80	33.222	24.645	328.9	.036	6.16	106.7	2.2	.38	.0	.00	.09	.05	11
	20 ISL	14.80	14.79	33.221	24.646	329.1	.066	6.14	106.4							20
1	27	14.79	14.79	33.221	24.647	329.2	.088	6.12	106.0	2.5	.34	.0	.00	.10	.04	27
	30 ISL	14.80	14.79	33.221	24.646	329.3	.099	6.10	105.6							30
1	42	14.81	14.81	33.223	24.644	329.9	.138	6.02	104.3	2.2	.34	.0	.00	.11	.03	42
	50 ISL	14.80	14.79	33.223	24.648	329.7	.165	6.02	104.2							50
1	57	14.78	14.77	33.222	24.652	329.6	.187	6.02	104.2	2.2	.34	.0	.00	.11	.05	57
1	73	14.02	14.01	33.152	24.758	319.8	.239	6.04	102.9	2.8	.39	.0	.01	.35	.29	73
	75 ISL	13.92	13.91	33.183	24.803	315.7	.246	5.95	101.2							76
1	83	13.54	13.53	33.301	24.972	299.7	.270	5.63	95.0	3.8	.52	1.8	.03	.22	.26	83
1	98	12.38	12.37	33.418	25.292	269.5	.312	5.24	86.4	6.6	.72	5.6	.01	.07	.13	98
	100 ISL	12.21	12.20	33.428	25.332	265.8	.318	5.16	84.7							101
1	117	11.19	11.17	33.488	25.567	243.6	.363	4.57	73.5	11.8	1.12	12.3	.01	.03	.05	118
	125 ISL	10.88	10.86	33.530	25.656	235.3	.381	4.38	69.9							126
1	138	10.41	10.40	33.610	25.800	221.8	.412	4.09	64.7	16.7	1.37	16.7	.01	.01	.02	139
	150 ISL	9.93	9.96	33.674	25.924	210.2	.437	3.90	61.2							151
1	158	9.70	9.68	33.720	26.006	202.5	.454	3.77	58.8	21.7	1.60	20.6	.01	.00	.01	159
1	179	9.24	9.22	33.849	26.183	186.0	.494	3.26	50.3	27.0	1.83	24.1	.01	.00	.02	180
1	199	8.67	8.64	33.926	26.333	171.9	.530	3.58	54.6	29.5	1.83	24.5	.00			200
	200 ISL	8.64	8.62	33.929	26.339	171.4	.532	3.65	55.2							202
1	220	8.33	8.30	33.972	26.422	163.8	.565	3.65	55.3	31.6	1.83	25.0	.01			221
	250 ISL	8.01	7.99	34.029	26.514	155.5	.613	2.84	42.7							252
1	256	7.97	7.94	34.038	26.528	154.2	.622	2.65	39.8	40.0	2.16	29.4	.01			257
	300 ISL	7.43	7.40	34.086	26.643	143.8	.688	1.99	29.5							302
1	306	7.35	7.32	34.089	26.657	142.5	.697	1.93	28.6	49.8	2.47	33.3	.00			308
1	363	6.70	6.67	34.096	26.752	133.9	.775	1.52	22.2	58.5	2.66	36.2	.00			365
	400 ISL	6.33	6.30	34.110	26.812	128.5	.824	1.24	18.0							403
1	451	5.90	5.86	34.137	26.889	121.5	.888	.91	13.0	72.5	2.94	40.1	.00			454
	500 ISL	5.53	5.49	34.163	26.954	115.6	.945	.70	10.0							504
1	539	5.28	5.24	34.187	27.003	111.1	.990	.58	8.2	84.6	3.13	42.6	.00			543
	600 ISL	4.99	4.94	34.237	27.076	104.6	1.056	.42	5.9							605
1	629	4.89	4.84	34.264	27.110	101.6	1.085	.36	5.0	95.4	3.22	43.8	.00			633

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 36.3 N	122 48.4 W	02/19/84	2024 GMT		350	19 KT	350 07 06	1	1022.9 MB	15.2 C	13.0 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.85	15.85	33.534	24.654	327.7	.000	5.77	102.3							0
1	1	15.85	15.85	33.534	24.654	327.8	.003	5.77	102.3	2.2	.29	.0	.00	.06	.04	1
	10 ISL	15.87	15.87	33.534	24.650	328.4	.033	5.86	103.9							10
1	12	15.87	15.87	33.534	24.650	328.5	.039	5.87	104.1	2.2	.28	.0	.00	.06	.04	12
	20 ISL	15.86	15.86	33.534	24.653	328.5	.066	5.85	103.7							20
1	27	15.85	15.85	33.534	24.655	328.5	.088	5.83	103.3	2.2	.27	.0	.00	.07	.04	27
	30 ISL	15.86	15.85	33.534	24.654	328.6	.099	5.82	103.1							30
1	42	15.88	15.88	33.536	24.651	329.4	.137	5.78	102.5	2.2	.27	.0	.00	.07	.04	42
	50 ISL	15.89	15.88	33.537	24.651	329.6	.164	5.79	102.7							50
1	58	15.89	15.88	33.539	24.652	329.8	.190	5.80	102.9	2.2	.27	.0	.00	.08	.04	58
1	73	15.90	15.89	33.550	24.658	329.6	.239	5.77	102.4	2.3	.27	.0	.00	.07	.04	73
	75 ISL	15.92	15.90	33.552	24.657	329.9	.247	5.77	102.4							76
1	83	15.92	15.91	33.555	24.658	329.9	.272	5.77	102.4	2.2	.27	.0	.00	.07	.04	83
1	98	14.63	14.62	33.661	25.023	295.5	.319	6.18	106.9	3.1	.34	.4	.05	.25	.24	98
	100 ISL	14.42	14.40	33.642	25.054	292.6	.326	6.14	105.8							101
1	118	12.77	12.76	33.469	25.256	273.6	.378	5.50	91.5	6.2	.67	5.1	.02	.13	.16	119
	125 ISL	12.16	12.14	33.474	25.378	262.0	.396	5.25	86.1							126
1	138	11.06	11.04	33.546	25.637	237.4	.429	4.65	74.6	12.4	1.13	12.8	.01	.02	.04	139
	150 ISL	10.51	10.49	33.643	25.810	221.2	.456	3.95	62.7							151
1	158	10.21	10.19	33.711	25.913	211.5	.474	3.56	56.1	21.4	1.66	20.8	.01	.00	.02	159
1	179	9.40	9.38	33.797	26.115	192.5	.516	3.75	58.1	24.3	1.71	22.2	.01	.00	.02	180
1	199	8.93	8.91	33.921	26.288	176.3	.552	3.05	46.8	30.5	1.98	26.1	.01			200
	200 ISL	8.91	8.89	33.924	26.294	175.8	.554	3.05	46.8							202
1	220	8.50	8.48	33.966	26.390	166.8	.588	3.27	49.7	32.3	1.95	26.5	.01			221
	250 ISL	8.11	8.08	34.012	26.486	158.2	.637	2.98	44.8							252
1	255	8.06	8.04	34.018	26.498	157.1	.644	2.90	43.7	37.5	2.11	28.6	.01			256
	300 ISL	7.53	7.50	34.053	26.603	147.6	.714	2.42	36.0							302
1	306	7.45	7.42	34.055	26.616	146.5	.723	2.36	35.0	46.0	2.34	32.0	.00			308
1	363	6.77	6.74	34.071	26.723	136.8	.803	1.85	27.0	55.5	2.59	35.4	.01			365
	400 ISL	6.38	6.34	34.084	26.785	131.1	.853	1.52	22.0							403
1	449	5.93	5.89	34.106	26.860	124.2	.915	1.13	16.2	69.5	2.88	39.6	.00			452
	500 ISL	5.55	5.51	34.139	26.932	117.7	.977	.84	12.0							504
1	536	5.32	5.28	34.164	26.980	113.3	1.019	.69	9.7	81.6	3.09	42.2	.00			540
	600 ISL	4.94	4.89	34.211	27.063	105.8	1.089	.49	6.9							605
1	623	4.81	4.76	34.229	27.091	103.2	1.112	.45	6.3	93.7	3.15	44.3	.00			627

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 14.4 N	123 28.7 W	02/18/84	1805 GMT		360	18 KT	340 08 09	1	1025.5 MB	14.6 C	11.3 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.52	14.52	33.151	24.649	328.1	.000	6.04	104.0							0
1	1	14.52	14.52	33.151	24.649	328.2	.003	6.04	104.0	2.5	.42	.3	.00	.12	.05	1
	10 ISL	14.55	14.55	33.151	24.645	328.9	.033	6.06	104.3							10
1	12	14.55	14.55	33.151	24.645	329.0	.039	6.06	104.4	2.5	.43	.3	.00	.11	.06	12
	20 ISL	14.54	14.54	33.150	24.646	329.1	.066	6.06	104.3							20
1	27	14.54	14.53	33.150	24.647	329.2	.088	6.05	104.2	2.5	.43	.3	.00	.11	.05	27
	30 ISL	14.55	14.54	33.150	24.645	329.4	.099	6.04	104.0							30
1	42	14.55	14.54	33.146	24.642	330.1	.138	6.01	103.5	2.5	.41	.3	.00	.12	.05	42
	50 ISL	14.52	14.51	33.144	24.647	329.8	.165	6.02	103.5							50
1	57	14.45	14.45	33.135	24.654	329.5	.187	6.02	103.5	2.5	.41	.3	.00	.14	.09	57
1	73	14.13	14.11	33.175	24.754	320.3	.239	5.96	101.8	3.0	.44	.3	.04	.37	.33	73
	75 ISL	14.03	14.02	33.185	24.781	317.7	.246	5.93	101.1							76
1	83	13.72	13.71	33.232	24.882	308.3	.270	5.81	98.4	3.6	.52	1.1	.12	.20	.16	83
1	98	13.42	13.40	33.393	25.069	290.9	.315	5.52	93.0	4.8	.61	3.1	.03	.10	.15	98
	100 ISL	13.47	13.45	33.437	25.093	288.7	.322	5.51	93.0							101
1	119	13.65	13.64	33.727	25.279	271.6	.373	5.49	93.1	4.7	.51	2.7	.02	.07	.08	119
	125 ISL	13.26	13.24	33.735	25.365	262.7	.391	5.39	90.7							126
1	138	12.34	12.32	33.739	25.550	246.1	.425	5.16	85.2	7.3	.75	7.0	.01	.02	.06	139
	150 ISL	12.05	12.03	33.755	25.616	240.0	.453	5.05	82.9							151
1	158	11.85	11.83	33.756	25.656	236.4	.473	4.95	80.9	9.5	.88	9.4	.01	.02	.05	159
1	179	10.42	10.39	33.693	25.865	216.5	.520	4.37	69.2	16.5	1.33	16.0	.01			180
1	199	9.45	9.43	33.802	26.111	193.3	.561	3.62	56.1	24.2	1.74	22.5	.01			200
	200 ISL	9.42	9.39	33.808	26.122	192.2	.563	3.74	57.3							202
1	220	8.81	8.79	33.919	26.305	175.0	.599	3.75	57.4	27.4	1.77	23.7	.01			221
	250 ISL	8.39	8.36	33.982	26.421	164.5	.650	4.14	62.7							252
1	255	8.35	8.32	33.985	26.429	163.7	.658	4.18	63.3	29.6	1.71	23.2	.00			256
	300 ISL	7.62	7.59	33.987	26.538	152.6	.730	3.53	52.5							302
1	305	7.54	7.51	34.002	26.562	151.6	.738	3.41	50.7	40.2	2.01	28.0	.00			307
1	363	6.91	6.88	34.023	26.667	142.2	.822	2.68	39.3	50.4	2.36	32.4	.00			365
	400 ISL	6.49	6.45	34.043	26.739	135.5	.874	2.09	30.3							403
1	449	5.97	5.93	34.076	26.831	127.0	.937	1.40	20.1	67.5	2.81	38.8	.00			451
	500 ISL	5.50	5.46	34.111	26.916	119.1	1.001	1.05	15.0							504
1	536	5.23	5.19	34.140	26.972	114.0	1.043	.90	12.7	82.9	3.03	42.0	.00			540
	600 ISL	4.91	4.86	34.208	27.063	105.7	1.113	.55	7.7							605
1	622	4.84	4.79	34.235	27.093	103.0	1.136	.43	6.0	95.4	3.20	43.9	.00			626

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 83 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 15.3 N	123 27.6 W	02/19/84	0030 GMT		340	20 KT	330 09 10	1	1022.7 MB	14.2 C	11.5 C	4/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.64	14.64	33.159	24.630	330.0	.000	6.01	103.7							0
1	1	14.64	14.64	33.159	24.630	330.0	.003	6.01	103.7	2.6	.37	.3	.00	.10	.06	1
	10 ISL	14.66	14.65	33.159	24.628	330.5	.033	6.09	104.9							10
1	11	14.66	14.66	33.159	24.628	330.5	.036	6.08	105.0	2.6	.36	.3	.00	.09	.05	11
	20 ISL	14.65	14.65	33.159	24.628	330.8	.066	6.07	104.7							20
1	27	14.65	14.65	33.158	24.629	330.9	.089	6.05	104.4	2.6	.36	.3	.00	.10	.05	27
	30 ISL	14.64	14.64	33.157	24.630	331.1	.099	6.03	104.1							30
1	42	14.64	14.63	33.157	24.631	331.1	.138	6.03	104.0	2.6	.36	.3	.00	.09	.07	42
	50 ISL	14.46	14.45	33.131	24.649	329.7	.165	6.11	105.1							50
1	57	14.29	14.28	33.110	24.669	327.9	.188	6.17	105.7	2.5	.37	.3	.00	.21	.10	57
1	68	14.10	14.09	33.106	24.706	324.7	.223	6.10	104.1	2.6	.40	.3	.00	.28	.11	68
	75 ISL	14.05	14.04	33.108	24.718	324.3	.247	5.99	102.0							76
1	78	14.03	14.02	33.113	24.726	323.1	.256	5.94	101.2	3.2	.38	.3	.00	.28	.15	78
1	93	13.67	13.66	33.288	24.935	303.5	.302	5.70	96.5	4.6	.51	2.1	.12			93
	100 ISL	13.70	13.69	33.411	25.025	295.3	.325	5.56	94.3							101
1	109	13.73	13.71	33.554	25.130	285.4	.349	5.43	92.2	4.5	.50	2.4	.05	.09	.15	109
1	123	12.86	12.85	33.623	25.357	266.2	.390	5.38	89.7	5.3	.55	4.1	.02	.05	.08	124
	125 ISL	12.83	12.82	33.634	25.372	262.8	.394	5.38	89.6							126
1	149	12.14	12.12	33.740	25.589	242.6	.456	5.06	83.2	8.0	.76	7.9	.00	.02	.04	150
	150 ISL	12.07	12.05	33.737	25.599	241.7	.457	5.03	82.6							151
1	169	10.29	10.27	33.673	25.870	215.8	.501	4.29	67.7	17.3	1.36	17.1	.00	.01	.02	170
1	190	9.65	9.63	33.838	26.106	193.6	.544	4.03	62.8	21.8	1.50	19.9	.00			191
	200 ISL	9.31	9.28	33.866	26.185	186.2	.563	3.83	59.3							202
1	210	8.98	8.96	33.883	26.250	180.1	.581	3.69	56.7	26.8	1.72	23.3	.00			211
1	241	8.48	8.45	33.977	26.403	166.0	.635	4.15	63.0	28.8	1.62	22.5	.00			242
	250 ISL	8.31	8.28	33.987	26.436	163.0	.650	4.04	61.1							252
1	281	7.74	7.72	33.999	26.530	154.4	.700	3.37	50.3	37.0	1.86	26.3	.00			283
	300 ISL	7.44	7.41	34.010	26.582	149.6	.728	3.02	44.8							302
1	343	6.82	6.79	34.033	26.686	139.9	.790	2.28	33.3	52.2	2.40	33.6	.00			345
	400 ISL	6.25	6.22	34.065	26.787	130.8	.867	1.52	22.0							403
1	420	6.10	6.07	34.080	26.817	128.1	.894	1.31	18.8	66.6	2.73	38.3	.00			423
1	496	5.74	5.70	34.160	26.926	118.4	.989	.78	11.1	76.4	2.99	40.8	.00			501
	500 ISL	5.73	5.68	34.162	26.930	118.2	.992	.77	11.0							504
1	575	5.02	4.98	34.179	27.027	109.0	1.077	.57	8.0	89.3	3.11	43.3	.00			579

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 93 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 14.1 N	123 28.8 W	02/19/84	0529 GMT		340	21 KT	330 08 09	1	1023.3 MB	14.6 C	11.1 C	4/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.93	14.93	33.231	24.624	330.5	.000	5.90	102.5							0
1	1	14.93	14.93	33.231	24.624	330.6	.003	5.90	102.5	2.4	.36	.3	.00	.11	.05	1
	10 ISL	14.95	14.95	33.230	24.620	331.3	.033	5.96	103.5							10
1	11	14.95	14.95	33.230	24.619	331.4	.036	5.96	103.5	2.4	.37	.3	.00	.11	.05	11
	20 ISL	14.95	14.95	33.229	24.619	331.7	.066	5.95	103.3							20
1	27	14.95	14.95	33.229	24.618	331.9	.089	5.93	103.0	2.3	.35	.3	.00	.12	.05	27
	30 ISL	14.96	14.95	33.228	24.617	332.1	.099	5.92	102.9							30
1	42	14.96	14.95	33.228	24.617	332.5	.139	5.92	102.9	2.3	.36	.3	.00	.12	.06	42
	50 ISL	14.95	14.94	33.226	24.618	332.7	.166	5.93	103.0							50
1	57	14.94	14.93	33.223	24.619	332.8	.188	5.94	103.2	2.3	.36	.3	.00	.12	.05	57
1	73	14.27	14.26	33.089	24.658	329.4	.241	6.02	103.0	2.3	.37	.3	.00	.19	.09	73
	75 ISL	14.23	14.22	33.083	24.662	329.1	.249	6.03	102.9							76
1	83	14.12	14.11	33.081	24.682	327.4	.274	6.03	102.9	2.3	.40	.3	.01	.21	.11	83
1	98	13.88	13.86	33.150	24.787	317.8	.322	5.88	99.9	3.0	.42	.6	.08	.22	.15	98
	100 ISL	13.74	13.73	33.170	24.830	313.8	.330	5.82	98.5							101
1	118	12.70	12.68	33.364	25.189	279.9	.385	5.35	88.8	5.3	.65	4.5	.01	.07	.09	119
	125 ISL	12.58	12.56	33.458	25.284	271.0	.402	5.33	88.2							126
1	138	12.40	12.38	33.626	25.451	255.5	.438	5.30	87.5	6.1	.64	5.4	.01	.04	.04	139
	150 ISL	11.99	11.97	33.685	25.573	244.1	.467	5.11	83.8							151
1	159	11.58	11.56	33.707	25.667	235.3	.489	4.93	80.1	9.4	.84	9.6	.01	.02	.01	160
1	180	10.47	10.45	33.768	25.914	212.0	.536	4.57	72.5	14.6	1.17	14.3	.01	.01	.00	181
1	200	9.52	9.50	33.856	26.142	190.4	.576	4.18	65.0	21.5	1.46	19.4	.00			201
1	221	8.98	8.96	33.916	26.276	177.9	.614	4.12	63.3	24.8	1.54	21.2	.01			222
	250 ISL	8.60	8.58	33.964	26.374	169.0	.665	4.13	63.3							252
1	257	8.54	8.51	33.971	26.389	167.6	.676	4.18	63.6	28.6	1.63	22.2	.01			258
	300 ISL	7.80	7.77	33.999	26.522	155.4	.746	3.59	53.7							302
1	307	7.67	7.64	34.002	26.543	153.5	.757	3.45	51.4	39.0	1.94	27.0	.00			309
1	365	6.92	6.89	34.037	26.676	141.3	.842	2.30	33.7	51.8	2.39	33.1	.00			367
	400 ISL	6.46	6.42	34.054	26.751	134.3	.890	1.78	25.9							403
1	452	5.85	5.82	34.082	26.851	125.1	.958	1.23	17.6	70.7	2.81	39.3	.00			455
	500 ISL	5.46	5.42	34.112	26.923	118.4	1.016	.93	13.1							504
1	540	5.21	5.17	34.142	26.976	113.7	1.063	.76	10.7	83.0	3.01	42.1	.00			544
	600 ISL	4.98	4.93	34.197	27.047	107.3	1.129	.54	7.5							605
1	629	4.92	4.87	34.227	27.078	104.7	1.159	.46	6.4	93.4	3.16	43.6	.00			633

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 14.8 N	123 28.4 W	02/19/84	1232 GMT		340	20 KT	340 07 08	1	1022.1 MB	14.2 C	12.0 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D-BAR
	0 ISL	14.81	14.81	33.183	24.614	331.5	.000	5.95	103.0							0
1	1	14.81	14.81	33.183	24.614	331.6	.003	5.95	103.0	2.4	.37	.2	.00	.11	.07	1
	10 ISL	14.82	14.82	33.181	24.610	332.2	.033	5.93	102.7							10
1	11	14.82	14.82	33.180	24.610	332.2	.036	5.93	102.7	2.4	.36	.2	.00	.11	.06	11
	20 ISL	14.81	14.81	33.180	24.612	332.4	.066	5.91	102.3							20
1	25	14.81	14.80	33.180	24.612	332.5	.083	5.90	102.2	2.3	.34	.2	.00	.11	.06	25
	30 ISL	14.82	14.81	33.180	24.610	332.8	.100	5.91	102.4							30
1	39	14.84	14.83	33.181	24.607	333.4	.129	5.93	102.8	2.3	.34	.2	.00	.11	.06	39
	50 ISL	14.84	14.83	33.180	24.606	333.8	.166	5.93	102.7							50
1	53	14.84	14.83	33.180	24.607	333.8	.176	5.93	102.7	2.3	.33	.2	.00	.11	.06	53
1	67	14.83	14.82	33.190	24.616	333.4	.222	5.92	102.6	2.5	.37	.2	.00	.13	.08	67
	75 ISL	14.06	14.04	33.112	24.720	323.5	.249	5.99	102.2							76
1	76	13.99	13.98	33.106	24.729	322.7	.252	6.00	102.1	3.0	.38	.2	.00	.26	.15	76
1	90	13.78	13.77	33.090	24.760	320.2	.296	5.99	101.5	3.1	.39	.1	.08	.22	.18	90
	100 ISL	13.16	13.15	33.198	24.969	300.4	.329	5.64	94.5							101
1	109	12.54	12.53	33.308	25.175	280.9	.353	5.29	87.5	6.2	.71	5.2	.03	.10	.15	109
	125 ISL	11.60	11.59	33.402	25.425	257.4	.398	4.81	78.0							126
1	126	11.53	11.52	33.411	25.445	255.5	.401	4.78	77.4	10.3	.97	10.2	.01	.03	.06	127
1	145	10.90	10.89	33.659	25.752	226.6	.447	4.89	78.2	11.2	.96	11.2	.01	.01	.02	146
	150 ISL	10.66	10.64	33.677	25.810	221.3	.457	4.67	74.3							151
1	163	9.98	9.96	33.711	25.953	207.7	.486	4.08	64.0	18.6	1.41	17.8	.01	.00	.01	164
1	181	9.47	9.45	33.852	26.148	189.5	.521	4.41	68.4	20.4	1.38	18.2	.00			182
1	199	8.98	8.96	33.912	26.273	177.7	.554	4.25	65.3	23.9	1.51	20.6	.00			200
	200 ISL	8.95	8.93	33.915	26.280	177.2	.556	4.25	65.2							202
1	231	8.31	8.28	33.980	26.431	163.1	.608	4.12	62.3	29.0	1.65	22.8	.00			232
	250 ISL	8.03	8.00	33.995	26.484	158.3	.639	3.89	58.5							252
1	274	7.73	7.70	34.000	26.532	153.9	.677	3.53	52.7	36.4	1.89	26.5	.00			276
	300 ISL	7.37	7.34	34.009	26.591	148.7	.716	3.21	47.5							302
1	324	7.05	7.02	34.018	26.643	143.8	.751	2.88	42.3	44.9	2.12	30.4	.00			326
1	397	6.28	6.25	34.079	26.793	130.1	.850	1.60	23.1	60.5	2.66	36.7	.00			399
	400 ISL	6.25	6.21	34.079	26.799	129.7	.855	1.57	22.7							403
1	469	5.59	5.55	34.091	26.890	121.3	.941	1.16	16.5	73.0	2.90	40.2	.00			472
	500 ISL	5.41	5.37	34.125	26.939	116.8	.978	.94	13.2							504
1	539	5.27	5.23	34.193	27.010	110.6	1.023	.62	8.7	82.5	3.12	41.8	.00			543

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 49.4 N	118 37.7 W	02/27/84	1114 GMT	676 M	090	10 KT	290 01 07	1	1021.0 MB	16.5 C	15.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D-BAR
1	0	15.15	15.15	33.488	24.774	316.3	.000	5.98	104.5	2.2	.34	.1	.00	.67	.19	0
1	10	15.15	15.15	33.486	24.774	316.6	.032	6.14	107.3	2.2	.36	.0	.00	.63	.25	10
	20 ISL	15.05	15.05	33.484	24.794	315.0	.063	6.05	105.5							20
1	24	15.00	14.99	33.484	24.805	314.0	.076	5.99	104.3	2.5	.38	.0	.00	.99	.27	24
	30 ISL	14.87	14.87	33.485	24.833	311.6	.095	5.97	103.7							30
1	39	14.78	14.78	33.485	24.853	310.0	.122	5.86	101.6	3.0	.40	.1	.00	1.27	.38	39
	50 ISL	13.82	13.81	33.456	25.034	293.0	.156	5.39	91.7							50
1	55	13.29	13.28	33.451	25.138	283.2	.169	5.12	86.1	6.8	.73	5.2	.04	.39	.63	55
1	66	12.09	12.09	33.494	25.404	258.0	.199	4.39	72.0	11.1	1.13	10.8	.20	.21	.23	66
	75 ISL	11.56	11.55	33.549	25.546	244.6	.222	4.17	67.6							76
1	76	11.53	11.52	33.552	25.554	243.9	.224	4.16	67.4	14.1	1.31	13.4	.26	.12	.22	76
1	90	11.11	11.10	33.587	25.658	234.3	.257	4.06	65.2	15.0	1.30	14.7	.25	.06	.16	90
	100 ISL	10.82	10.81	33.642	25.753	225.6	.281	3.89	62.1							101
1	105	10.65	10.64	33.675	25.808	220.4	.293	3.78	60.2	18.7	1.44	17.6	.08	.06	.09	106
1	119	10.05	10.04	33.755	25.973	204.8	.323	3.50	55.0	22.2	1.61	20.5	.01	.02	.07	120
	125 ISL	9.90	9.88	33.784	26.022	200.3	.334	3.41	53.4							126
1	145	9.50	9.48	33.867	26.154	188.1	.374	3.17	49.2	26.8	1.78	23.5	.00	.01	.06	146
	150 ISL	9.41	9.39	33.882	26.180	185.8	.383	3.13	48.6							151
1	164	9.17	9.15	33.921	26.250	179.4	.408	3.05	47.0	29.5	1.86	24.9	.00	.01	.05	165
1	184	8.84	8.82	33.971	26.342	170.9	.443	2.95	45.2	32.0	1.94	26.0	.00			185
	200 ISL	8.61	8.59	34.006	26.405	165.2	.470	2.85	43.4							202
1	204	8.56	8.54	34.014	26.418	163.9	.476	2.82	42.9	35.0	2.02	26.8	.00			205
1	235	8.26	8.24	34.059	26.499	156.7	.526	2.44	36.9	38.8	2.16	28.4	.00			236
	250 ISL	8.14	8.11	34.073	26.530	154.0	.550	2.34	35.2							252
1	274	7.92	7.89	34.091	26.576	150.0	.587	2.18	32.7	44.1	2.29	30.1	.00			276
	300 ISL	7.60	7.57	34.114	26.640	144.1	.624	1.87	27.8							302
1	335	7.17	7.14	34.144	26.725	136.3	.673	1.42	21.0	55.8		34.0	.00			337
	400 ISL	6.70	6.66	34.192	26.829	127.3	.759	.95	13.8							403
1	409	6.65	6.61	34.198	26.840	126.3	.771	.90	13.1	65.8	2.84	36.6	.00			412
1	483	6.27	6.23	34.235	26.919	119.5	.861	.63	9.1	73.2	3.00	38.4	.00			486
	500 ISL	6.18	6.14	34.246	26.940	117.7	.882	.57	8.3							504
1	557	5.88	5.83	34.291	27.014	111.2	.947	.40	5.7	81.4	3.10	39.5	.00			561

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 39.4 N	118 58.5 W	03/01/84	0042 GMT	695 M	300	09 KT	280 03 05	1	1016.3 MB	16.5 C	13.3 C	2/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.67	15.67	33.446	24.626	331.0	.000	5.84	103.1							0
1	1	15.67	15.67	33.446	24.626	330.4	.003	5.84	103.1	2.8	.33	.0	.00	.11	.05	1
	10 ISL	15.47	15.47	33.442	24.670	326.5	.033	6.01	105.7							10
1	11	15.45	15.45	33.442	24.673	326.2	.036	6.02	105.8	2.3	.28	.0	.00	.14	.05	11
	20 ISL	15.42	15.42	33.442	24.680	325.7	.065	5.97	104.8							20
1	26	15.40	15.40	33.442	24.685	325.6	.085	5.90	103.6	2.1	.28	.0	.00	.16	.06	26
	30 ISL	15.36	15.36	33.435	24.688	321.4	.098	5.89	103.4							30
1	42	15.00	14.99	33.412	24.750	319.9	.136	5.89	102.5	2.6	.29	.0	.00	.39	.12	42
	50 ISL	14.43	14.42	33.407	24.869	309.4	.162	5.74	98.8							50
1	57	13.72	13.71	33.401	25.013	295.2	.182	5.47	92.8	4.6	.50	2.0	.08	.91	.36	57
1	67	12.17	12.16	33.466	25.368	261.5	.210	4.68	76.9	9.6	.88	9.0	.06	.34	.35	67
	75 ISL	11.62	11.61	33.512	25.506	249.4	.231	4.42	71.8							76
1	77	11.55	11.54	33.520	25.525	246.7	.235	4.39	71.2	12.4	1.07	12.1	.03	.19	.15	77
1	92	10.85	10.84	33.612	25.774	228.1	.270	4.02	64.2	16.2	1.27	15.8	.02	.08	.09	92
	100 ISL	10.51	10.50	33.661	25.822	218.9	.289	3.90	61.9							101
1	107	10.22	10.21	33.703	25.904	211.2	.305	3.80	59.9	19.9	1.41	18.3	.01	.02	.06	108
1	122	9.67	9.66	33.785	26.061	196.6	.336	3.41	53.2	24.0	1.60	21.6	.01	.00	.05	123
	125 ISL	9.60	9.59	33.799	26.084	194.4	.341	3.35	52.2							126
1	147	9.15	9.14	33.902	26.237	180.2	.382	2.98	46.0	29.6	1.79	24.4	.01	.00	.05	148
	150 ISL	9.12	9.10	33.910	26.249	179.1	.387	2.95	45.5							151
1	167	8.90	8.88	33.950	26.316	173.1	.418	2.80	42.9	32.8	1.89	25.9	.01	.00	.04	168
1	187	8.60	8.58	33.998	26.399	165.4	.451	2.55	38.9	36.2	2.00	27.2	.01			188
	200 ISL	8.46	8.44	34.026	26.444	161.4	.472	2.49	37.8							202
1	203	8.38	8.36	34.041	26.467	159.3	.485	2.46	37.3	38.5	2.05	28.0	.00			209
1	238	8.08	8.05	34.068	26.535	153.3	.532	2.26	34.0	41.6	2.16	29.2	.00			239
	250 ISL	7.95	7.92	34.088	26.569	150.2	.550	2.08	31.3							252
1	276	7.68	7.65	34.131	26.643	143.5	.589	1.68	25.1	49.8	2.38	31.5	.00			278
	300 ISL	7.42	7.39	34.153	26.697	138.6	.622	1.44	21.3							302
1	336	7.06	7.03	34.178	26.768	132.3	.671	1.15	16.9	59.6	2.61	34.7	.00			338
	400 ISL	6.60	6.56	34.236	26.877	122.7	.753	.72	10.5							403
1	410	6.53	6.50	34.245	26.892	121.3	.765	.67	9.7	70.4	2.84	37.9	.00			413
1	486	5.99	5.95	34.302	27.008	110.9	.853	.42	6.0	81.8	3.03	39.8	.00			489
	500 ISL	5.91	5.87	34.313	27.027	109.3	.869	.39	5.6							504
1	560	5.66	5.61	34.356	27.093	103.6	.932	.30	4.3	90.1	3.08	40.2	.01			564

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 29.4 N	119 19.1 W	02/29/84	1842 GMT	1660 M	300	16 KT	310 05 06	2	1018.3 MB	14.2 C	13.1 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.15	15.15	33.458	24.752	319.4	.000	5.88	102.7	3.0	.32	.2	.00	.25	.07	0
1	10	15.10	15.10	33.454	24.759	319.0	.032	5.88	102.6	3.0	.32	.1	.00	.23	.09	10
1	20	15.09	15.09	33.455	24.762	318.1	.063	5.95	103.8	3.0	.31	.1	.00	.26	.06	20
	30 ISL	14.23	14.22	33.497	24.980	297.5	.094	6.30	104.1							30
1	31	14.13	14.13	33.502	25.003	295.3	.097	6.31	108.0	.3	.31	.1	.00	.67	.23	31
1	40	13.36	13.36	33.525	25.180	278.8	.123	5.58	94.0	3.2	.61	3.2	.11	3.76	.72	40
	50 ISL	12.70	12.69	33.550	25.332	264.6	.150	4.96	82.4							50
1	51	12.65	12.64	33.551	25.341	263.7	.152	4.92	81.7	9.2	.85	7.7	.22	1.43	1.13	51
1	60	12.08	12.07	33.537	25.440	254.4	.176	4.65	76.3	11.2	1.00	10.7	.19	.75	.53	60
1	70	11.19	11.18	33.595	25.649	234.7	.200	4.00	64.4	15.7	1.23	15.2	.04	.26	.24	70
	75 ISL	11.02	11.01	33.609	25.691	233.8	.212	3.91	62.8							76
1	86	10.93	10.92	33.639	25.730	227.3	.237	3.87	62.0	17.6	1.32	16.5	.04	.26	.22	86
	100 ISL	10.55	10.54	33.691	25.837	217.5	.269	3.65	57.9							101
1	101	10.51	10.50	33.697	25.850	216.3	.272	3.62	57.4	20.7	1.46	18.6	.02	.09	.17	102
1	121	9.94	9.93	33.789	26.018	200.6	.313	3.27	51.3	24.2	1.63	21.5	.01	.02	.08	122
	125 ISL	9.84	9.83	33.806	26.049	197.8	.321	3.21	50.3							126
1	146	9.30	9.29	33.897	26.209	182.9	.361	2.93	45.3	29.3	1.81	24.4	.00	.01	.07	147
	150 ISL	9.24	9.22	33.911	26.231	180.9	.368	2.90	44.8							151
1	175	8.85	8.83	33.994	26.357	169.3	.412	2.69	41.2	33.3	1.96	26.7	.00			176
	200 ISL	8.39	8.37	34.062	26.481	157.8	.452	2.34	35.5							202
1	205	8.32	8.29	34.072	26.501	155.9	.460	2.27	34.4	39.5	2.14	29.2	.00			206
1	235	8.09	8.07	34.107	26.563	150.6	.506	2.00	30.1	43.2	2.24	30.5	.00			236
	250 ISL	7.95	7.93	34.124	26.597	147.6	.529	1.86	28.0							252
1	274	7.73	7.70	34.149	26.650	142.9	.564	1.65	24.7	48.9	2.39	32.2	.00			276
	300 ISL	7.49	7.46	34.169	26.700	138.4	.600	1.43	21.3							302
1	335	7.16	7.13	34.193	26.766	132.5	.647	1.15	17.0	58.5	2.61	34.6	.00			337
	400 ISL	6.59	6.55	34.251	26.890	121.4	.730	.72	10.5							403
1	407	6.53	6.49	34.257	26.903	120.2	.739	.68	9.9	70.5	2.83	37.1	.00			410
1	482	6.01	5.97	34.314	27.015	110.2	.825	.40	5.7	81.1	2.99	38.9	.00			485
	500 ISL	5.91	5.87	34.324	27.036	108.4	.845	.33	4.8							504
1	555	5.68	5.64	34.348	27.083	104.4	.903	.31	4.4	89.2	3.09	39.4	.00			559

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 19.4 N	119 39.8 W	02/29/84	1321 GMT	75 M	310	20 KT			1017.3 MB	13.1 C	12.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.75	13.75	33.515	25.092	286.1	.000	6.22	105.6							0
1	1	13.75	13.75	33.515	25.092	286.1	.003	6.22	105.6	1.3	.39	.1	.00	5.04	.79	1
1	10	13.75	13.75	33.515	25.092	286.3	.028	6.20	105.3	1.6	.42	.1	.00	4.61	1.06	10
1	20	13.77	13.77	33.514	25.088	287.0	.057	6.24	106.0	1.8	.47	.1	.00			20
	30 ISL	13.77	13.76	33.514	25.088	287.0	.086	6.24	105.9							30
1	31	13.76	13.76	33.514	25.089	287.2	.088	6.19	105.1	1.8	.44	.1	.00	4.66	1.12	31
1	40	13.70	13.69	33.513	25.102	286.2	.114	6.01	101.9	1.7	.46	.6	.01	4.24	1.14	40
	50 ISL	13.53	13.53	33.513	25.136	285.6	.143	5.78	97.6							50
1	52	13.48	13.47	33.514	25.148	282.1	.148	5.72	96.6	3.0	.55	1.7	.04	3.88	1.17	52
1	65	12.54	12.53	33.539	25.353	262.9	.183	5.02	83.1	8.4	.86	6.9	.09	2.27	.89	65

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 09.4 N	120 00.3 W	02/29/84	0720 GMT	1200 M	320	19 KT	310 03 11	1	1017.3 MB	15.9 C	12.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	13.84	13.84	33.517	25.075	287.5	.000	6.34	107.9							0
1	1	13.84	13.84	33.517	25.075	287.6	.003	6.34	107.9	.9	.39	.0	.01	3.03	.76	1
	10 ISL	13.84	13.84	33.514	25.073	288.1	.029	6.55	111.4							10
1	11	13.84	13.84	33.514	25.073	288.1	.032	6.56	111.6	1.3	.40	.1	.01	3.00	.73	11
	20 ISL	13.82	13.82	33.511	25.075	288.0	.058	6.43	109.3							20
	30 ISL	13.78	13.78	33.509	25.081	288.1	.086	6.55	111.3							30
1	31	13.78	13.78	33.509	25.082	287.8	.089	6.32	107.6	1.5	.42	.2	.03	2.64	.84	31
	50 ISL	13.77	13.76	33.509	25.085	287.6	.144	5.88	99.9							50
1	52	13.63	13.62	33.509	25.114	285.4	.149	5.82	98.6	2.9	.51	1.1	.06	2.08	.93	52
1	68	12.53	12.52	33.494	25.320	266.1	.193	4.90	81.1	8.6	.90	7.5	.11	1.60	1.19	68
	75 ISL	11.46	11.45	33.529	25.550	244.3	.212	4.23	68.5							76
1	77	11.24	11.23	33.540	25.598	239.7	.216	4.10	66.0	14.9	1.26	14.3	.05	.21	.40	77
1	87	10.83	10.82	33.584	25.706	229.6	.239	3.91	62.4	17.1	1.37	16.2	.03	.14	.24	87
	100 ISL	10.47	10.46	33.689	25.850	216.2	.269	3.59	57.0							101
1	101	10.44	10.43	33.701	25.866	214.8	.272	3.56	56.4	21.3	1.54	19.0	.02	.06	.19	102
1	117	9.88	9.87	33.786	26.027	199.7	.305	3.30	51.7	24.8	1.70	21.7	.01	.05	.11	118
	125 ISL	9.60	9.58	33.835	26.112	191.8	.320	3.15	49.1							126
1	142	9.07	9.06	33.931	26.272	176.7	.352	2.86	44.0	31.3	1.95	25.5	.01	.01	.08	143
	150 ISL	8.96	8.95	33.952	26.306	173.6	.365	2.80	43.0							151
1	162	8.84	8.82	33.975	26.344	170.2	.386	2.73	41.8	33.5	2.01	26.6	.00	.01	.09	163
1	183	8.53	8.51	34.020	26.428	162.6	.421	2.54	38.6	37.0	2.10	27.9	.01	.00	.05	184
	200 ISL	8.32	8.30	34.043	26.477	158.3	.448	2.43	36.8							202
1	207	8.25	8.23	34.049	26.493	156.7	.459	2.39	36.1	40.1	2.19	28.9	.01			208
1	233	7.94	7.91	34.078	26.563	150.5	.498	2.15	32.3	44.6	2.30	30.6	.01			234
	250 ISL	7.76	7.73	34.092	26.600	147.2	.524	1.99	29.8							252
1	261	7.65	7.63	34.100	26.622	145.2	.541	1.89	28.2	48.5	2.47	31.8	.00			263
1	297	7.36	7.33	34.128	26.686	139.6	.592	1.60	23.7	53.6	2.53	33.3	.01			299
	300 ISL	7.33	7.30	34.131	26.692	139.0	.596	1.57	23.2							302
1	345	6.90	6.87	34.177	26.789	130.3	.656	1.10	16.1	62.0	2.73	36.0	.01			347
	400 ISL	6.47	6.43	34.212	26.875	122.7	.726	.78	11.3							403
1	409	6.40	6.36	34.217	26.887	121.6	.737	.74	10.7	71.3	2.88	37.9	.01			412
1	485	5.84	5.79	34.272	27.003	111.2	.825	.48	6.9	82.8	3.05	39.9	.00			488
	500 ISL	5.74	5.70	34.281	27.022	109.4	.842	.45	6.4							504
1	564	5.40	5.35	34.311	27.089	103.6	.910	.37	5.2	90.9	3.13	41.3	.00			568

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 59.4 N	120 21.0 W	02/28/84	2354 GMT	713 M	310	11 KT	300 03 10	1	1017.3 MB	14.9 C	12.6 C	6/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	13.97	13.97	33.503	25.037	291.3	.000	6.34	108.2	.4	.34	.2	.00	1.30	.52	0
1	10	13.67	13.67	33.498	25.096	286.0	.329	6.18	104.8	1.6	.42	.4	.01	1.20	.69	10
	20 ISL	13.65	13.64	33.498	25.101	285.7	.057	6.07	102.9							20
1	30	13.62	13.61	33.498	25.107	285.5	.086	5.99	101.4	1.7	.43	.7	.03	1.16	.67	30
1	50	13.58	13.57	33.496	25.114	285.3	.142	5.85	99.0	2.2	.46	1.1	.05	1.40	.81	50
1	65	12.20	12.19	33.489	25.380	260.2	.183	4.67	76.8	9.6	.94	9.8	.11	1.00	1.27	65
1	75	11.17	11.16	33.530	25.602	239.3	.208	4.12	66.3	14.5	1.22	14.7	.06	.75	.52	75
1	84	10.78	10.77	33.555	25.691	231.0	.229	4.01	64.0	15.9	1.31	16.3	.04	.44	.55	84
1	100	10.49	10.48	33.618	25.791	221.8	.265	3.79	60.1	18.6	1.41	18.1	.03	.12	.19	100
1	113	9.92	9.91				.294	3.52	55.2	22.4	1.55	20.8	.02	.05	.20	114
	125 ISL	9.54	9.53	33.798	26.092	193.5	.318	3.22	50.0							126
1	140	9.21	9.20	33.892	26.219	181.7	.346	2.89	44.6	29.8	1.85	25.3	.01	.02	.07	141
	150 ISL	9.11	9.09	33.916	26.255	178.6	.364	2.82	43.5							151
1	159	9.03	9.01	33.930	26.278	176.5	.380	2.78	42.8	31.5	1.92	26.1	.01	.02	.08	160
1	179	8.73	8.71	33.982	26.366	168.4	.415	2.59	39.6	34.4	2.01	27.3	.01	.01	.08	180
	200 ISL	8.49	8.47	34.020	26.433	162.4	.449	2.46	37.3							202
1	204	8.45	8.43	34.026	26.444	161.4	.455	2.43	36.9	37.6	2.10	28.7	.01			205
1	229	8.09	8.07	34.069	26.533	153.3	.495	2.16	32.5	42.1	2.21	30.2	.01			230
	250 ISL	7.79	7.77	34.099	26.601	147.1	.527	1.90	28.4							252
1	259	7.67	7.64	34.111	26.628	144.6	.540	1.78	26.6	48.3	2.38	32.2	.00			261
1	294	7.29	7.26	34.140	26.705	137.7	.589	1.44	21.3	54.0	2.52	34.1	.00			296
	300 ISL	7.24	7.21	34.146	26.717	136.6	.597	1.39	20.5							302
2	339	6.90	6.86	34.178	26.790	130.1	.649	1.09	16.0	60.5	2.68	36.2	.00			341
	400 ISL	6.42	6.39	34.220	26.886	121.5	.726	.75	10.9							403
3	407	6.37	6.33	34.224	26.897	120.6	.735	.72	10.4	70.0	2.87	38.4	.00			410
3	482	5.81	5.76	34.266	27.003	111.2	.821	.47	6.7	81.7	3.01	40.3	.00			485
	500 ISL	5.68	5.64	34.275	27.025	109.1	.841	.43	6.1							504
3	560	5.33	5.29	34.307	27.092	103.1	.905	.34	4.8	90.0	3.09	41.6	.00			564

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 87 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 49.3 N	120 41.5 W	02/25/84	0506 GMT	3730 M	330	28 KT	350 08 05		1020.7 MB	13.2 C	11.4 C		

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	13.84	13.84	33.448	25.022	292.6	.000	6.07	103.2							0
1	2		13.84	13.84	33.448	25.022	292.7	.006	6.07	103.2	2.4	.37	.7	.01	1.69	.59	2
	10	ISL	13.85	13.85	33.448	25.019	293.3	.029	6.15	104.7							10
1	11		13.86	13.85	33.448	25.019	293.3	.032	6.16	104.8	2.2	.39	.6	.01	1.70	.54	11
	20	ISL	13.86	13.86	33.448	25.018	293.7	.059	6.13	104.3							20
	30	ISL	13.86	13.86	33.447	25.018	294.1	.088	6.06	103.1							30
1	32		13.87	13.86	33.447	25.017	294.1	.094	6.04	102.8	2.1	.40	.6	.02	1.79	.47	32
1	50		13.85	13.85	33.447	25.020	294.3	.146	6.01	102.2	2.1	.39	.7	.02	1.64	.63	50
1	66		13.71	13.70	33.443	25.046	292.2	.193	5.83	98.9	2.6	.44	1.5	.04	1.10	.49	66
1	75		13.56	13.55	33.449	25.081	289.1	.219	5.71	96.5	3.3	.49	2.1	.05	1.02	.58	75
1	85		12.48	12.47	33.420	25.273	271.0	.247	4.99	82.5	7.5	.80	7.3	.06	.31	.26	85
	100	ISL	11.48	11.47	33.480	25.503	248.9	.287	4.33	70.1							101
1	101		11.46	11.45	33.483	25.514	248.3	.288	4.32	69.9	12.1	1.15	13.0	.02	.07	.17	101
1	113		11.17	11.16	33.524	25.599	243.5	.320	4.16	66.9	13.6	1.23	14.8	.02	.09	.11	114
	125	ISL	10.64	10.63	33.596	25.748	226.5	.347	3.92	62.4							126
1	139		9.98	9.97	33.697	25.941	208.3	.376	3.62	56.8	20.3	1.56	20.6	.00	.01	.05	139
	150	ISL	9.56	9.54	33.780	26.076	195.7	.399	3.41	53.0							151
1	159		9.32	9.31	33.832	26.155	188.2	.415	3.28	50.7	26.3	1.77	24.0	.00	.01	.03	159
1	178		9.01	8.99	33.915	26.270	177.6	.451	3.01	46.3	29.3	1.89	25.7	.00	.00	.06	179
	200	ISL	8.60	8.58	33.964	26.374	168.1	.489	3.09	47.1							202
1	202		8.56	8.54	33.967	26.382	167.3	.492	3.11	47.3	32.2	1.92	26.5	.00			203
1	227		8.09	8.07	33.999	26.479	158.4	.535	3.13	47.1	35.1	1.94	27.3	.00			228
	250	ISL	7.93	7.90	34.046	26.539	153.0	.569	2.62	39.3							252
1	255		7.91	7.89	34.055	26.549	152.2	.576	2.50	37.5	40.8	2.16	30.1	.00			256
1	288		7.70	7.68	34.089	26.606	147.2	.627	2.05	30.6	45.5	2.37	32.1	.00			290
	300	ISL	7.55	7.52	34.091	26.630	145.1	.644	1.95	29.0							302
1	338		7.03	7.00	34.130	26.710	137.7	.697	1.64	24.1	54.7	2.54	35.0	.00			340
1	400		6.51	6.48	34.187	26.849	125.2	.780	.90	13.1	67.5	2.85	38.1	.00			403
1	474		6.09	6.04	34.241	26.948	116.5	.868	.60	8.6	76.5	3.00	40.1	.00			477
	500	ISL	5.91	5.87	34.256	26.981	113.6	.898	.52	7.4							504
1	554		5.54	5.49	34.279	27.046	107.6	.958	.39	5.5	86.2	3.12	42.5	.00			558

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 87 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 39.4 N	121 02.0 W	02/24/84	2246 GMT	3730 M	330	21 KT	340 06 05	1	1022.0 MB	14.9 C	12.4 C	7/8	CU

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	14.30	14.30	33.302	24.814	312.3	.000	6.03	103.4							0
1	2		14.30	14.30	33.302	24.814	312.5	.006	6.03	103.4	1.4	.32	.0	.00	.27	.06	2
1	10		14.31	14.30	33.300	24.811	313.1	.031	6.17	105.8	1.4	.33	.0	.00	.27	.07	10
	20	ISL	14.30	14.30	33.301	24.813	313.1	.063	6.10	104.6							20
1	30		14.29	14.29	33.302	24.815	313.2	.094	6.02	103.2	1.1	.33	.0	.00	.27	.09	30
	50	ISL	14.29	14.28	33.302	24.817	313.2	.157	6.02	103.1							50
1	52		14.26	14.26	33.304	24.824	313.1	.162	5.96	102.1	1.6	.33	.0	.00	.31	.08	52
1	66		13.89	13.88	33.311	24.907	305.5	.205	5.72	97.3	2.3	.42	1.1	.03	.46	.16	66
	75	ISL	13.04	13.03	33.348	25.108	286.5	.233	5.30	88.6							76
1	77		12.88	12.87	33.356	25.146	283.0	.237	5.23	87.1	4.6	.63	4.7	.02	.29	.18	77
1	87		12.38	12.37	33.390	25.270	271.4	.265	5.05	83.3	5.9	.73	6.6	.01	.15	.15	87
	100	ISL	11.53	11.52	33.464	25.486	251.0	.300	4.74	76.8							101
1	101		11.50	11.49	33.467	25.494	250.2	.301	4.73	76.6	9.0	.94	10.3	.01	.06	.06	101
1	116		10.83	10.82	33.516	25.653	235.4	.340	4.42	70.6	12.4	1.13	13.9	.01	.02	.05	117
	125	ISL	10.51	10.49	33.568	25.750	226.3	.360	4.20	66.6							126
1	140		10.01	9.99	33.673	25.917	210.6	.393	3.80	59.6	19.0	1.47	19.8	.00	.01	.02	141
	150	ISL	9.78	9.76	33.730	26.001	202.9	.413	3.58	55.9							151
1	161		9.56	9.54	33.787	26.081	195.4	.435	3.37	52.4	23.6	1.67	23.1	.00	.01	.02	162
1	181		9.22	9.20	33.858	26.193	185.1	.473	3.19	49.2	26.5	1.77	24.7	.00	.00	.02	182
	200	ISL	8.72	8.70	33.935	26.332	172.1	.507	3.18	48.6							202
1	206		8.57	8.54	33.957	26.373	168.3	.517	3.16	48.1	31.0	1.85	26.6	.00			207
1	230		9.20	9.18	34.002	26.463	159.9	.556	3.15	47.6	35.1	1.90	27.1	.00			231
	250	ISL	7.96	7.93	34.027	26.520	154.8	.588	2.89	43.4							252
1	260		7.85	7.82	34.037	26.545	152.6	.603	2.72	40.7	40.2	2.07	29.5	.00			261
1	293		7.39	7.36	34.077	26.642	143.7	.653	2.07	30.7	47.9	2.32	32.8	.00			295
	300	ISL	7.29	7.26	34.081	26.658	142.2	.662	1.98	29.2							302
1	337		6.82	6.79	34.097	26.736	135.1	.714	1.56	22.8	56.7	2.53	35.9	.00			339
	400	ISL	6.20	6.17	34.125	26.841	125.6	.796	1.04	14.9							403
1	408		6.13	6.10	34.130	26.853	124.5	.806	.98	14.1	68.7	2.78	39.1	.00			411
1	484		5.68	5.63	34.209	26.973	113.8	.896	.55	7.8	80.4	3.00	41.4	.00			487
	500	ISL	5.59	5.55	34.227	26.998	111.6	.914	.49	6.9							504
1	558		5.34	5.29	34.295	27.082	104.1	.977	.35	4.9	90.0	3.10	42.3	.00			562

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 87 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 19.5 N	121 42.8 W	02/20/84	0722 GMT		350	14 KT	340 07 08	1	1022.1 MB	13.9 C	13.1 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.05	14.05	33.264	24.837	311.0	.000	6.05	103.2							0
1	1	14.05	14.05	33.264	24.837	310.3	.003	6.05	103.2	2.8	.40	.3	.00	.27	.11	1
	10 ISL	14.05	14.05	33.264	24.837	310.4	.031	6.17	105.2							10
1	12	14.07	14.06	33.265	24.834	310.9	.037	6.18	105.5	2.8	.41	.3	.00	.25	.12	12
	20 ISL	14.00	14.00	33.290	24.867	308.0	.062	6.16	105.0							20
1	27	13.93	13.93	33.312	24.898	305.3	.083	6.12	104.2	1.8	.40	.3	.00	.30	.11	27
	30 ISL	13.93	13.92	33.314	24.901	305.3	.093	6.12	104.1							30
1	42	13.92	13.92	33.314	24.902	305.3	.129	6.11	104.0	1.8	.39	.3	.00	.37	.19	42
	50 ISL	13.90	13.90	33.314	24.906	305.1	.154	6.09	103.7							50
1	58	13.89	13.88	33.314	24.911	304.9	.177	6.08	103.4	1.8	.41	.3	.00	.40	.23	58
1	73	13.87	13.86	33.316	24.916	304.8	.223	6.10	103.7	1.8	.39	.3	.00	.37	.18	73
	75 ISL	13.86	13.85	33.316	24.918	304.7	.230	6.08	103.3							76
1	83	13.86	13.84	33.319	24.921	304.6	.253	6.07	103.2	1.8	.40	.3	.01	.44	.26	83
1	99	13.03	13.01	33.461	25.199	278.5	.300	5.37	89.8	5.5	.63	4.1	.03	.11	.16	99
	100 ISL	12.91	12.90	33.460	25.220	276.5	.304	5.32	88.8							101
1	118	11.53	11.51	33.430	25.461	253.8	.353	4.80	77.7	9.9	1.00	10.2	.01	.04	.07	119
	125 ISL	11.23	11.21	33.460	25.539	246.5	.369	4.65	74.8							126
1	139	10.72	10.70	33.551	25.700	231.3	.403	4.32	68.8	14.9	1.31	15.1	.01	.02	.04	140
	150 ISL	10.32	10.31	33.618	25.822	220.0	.427	4.01	63.4							151
1	160	10.00	9.98	33.676	25.923	210.5	.449	3.76	59.0	20.9	1.61	20.0	.01	.01	.01	161
1	180	9.59	9.57	33.745	26.043	199.4	.490	3.61	56.2	23.2	1.73	22.0	.00	.00	.01	181
	200 ISL	9.23	9.21	33.845	26.181	186.6	.528	3.42	52.8							202
1	201	9.21	9.19	33.850	26.188	185.9	.530	3.41	52.6	27.0	1.85	23.9	.01			202
1	221	8.77	8.74	33.946	26.333	172.4	.566	2.95	45.1	32.0	2.03	26.5	.00			222
	250 ISL	8.40	8.37	33.997	26.430	163.6	.615	2.93	44.5							252
1	258	8.33	8.30	34.000	26.444	162.3	.627	2.87	43.5	36.0	2.13	28.0	.00			259
	300 ISL	7.73	7.70	34.046	26.569	151.0	.694	2.49	37.1							302
1	308	7.60	7.57	34.051	26.591	148.9	.706	2.40	35.7	45.1	2.30	31.4	.00			310
1	366	6.74	6.71	34.050	26.710	138.0	.788	2.04	29.8	54.4	2.50	34.5	.00			368
	400 ISL	6.38	6.34	34.065	26.771	132.4	.835	1.68	24.3							403
1	453	5.94	5.90	34.105	26.858	124.5	.903	1.10	15.8	70.3	2.88	39.5	.00			456
	500 ISL	5.63	5.59	34.153	26.934	117.6	.960	.76	10.8							504
1	542	5.40	5.36	34.200	26.999	111.7	1.008	.54	7.6	83.5	3.07	42.5	.00			546
	600 ISL	5.15	5.10	34.264	27.081	104.4	1.071	.36	5.1							605
1	631	5.04	4.99	34.298	27.120	100.9	1.102	.33	4.6	94.4	3.21	43.7	.01			635

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 87 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 00.7 N	122 24.2 W	02/20/84	1255 GMT		100	13 KT	350 06 08	1	1021.9 MB	13.5 C	12.8 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.07	15.06	33.312	24.657	327.3	.000	6.00	104.5							0
1	1	15.07	15.06	33.312	24.657	327.4	.003	6.00	104.5	2.6	.36	.3	.00	.10	.05	1
	10 ISL	15.08	15.08	33.308	24.652	328.2	.033	5.93	103.3							10
1	11	15.08	15.08	33.308	24.652	328.3	.036	5.92	103.2	2.6	.36	.2	.00	.11	.04	11
	20 ISL	15.08	15.08	33.308	24.652	328.6	.066	5.89	102.6							20
1	26	15.08	15.08	33.309	24.652	328.6	.085	5.88	102.5	2.5	.35	.3	.00	.10	.04	26
	30 ISL	15.08	15.08	33.308	24.652	328.8	.098	5.88	102.5							30
1	41	15.08	15.07	33.307	24.652	329.2	.134	5.88	102.5	2.6	.36	.2	.00	.10	.05	41
	50 ISL	15.02	15.02	33.292	24.653	329.4	.164	5.91	102.8							50
1	56	14.98	14.97	33.280	24.654	329.4	.183	5.92	102.9	2.5	.36	.3	.00	.11	.05	56
1	71	14.86	14.85	33.250	24.657	329.5	.233	5.89	102.1	2.5	.36	.3	.00	.11	.05	71
	75 ISL	14.85	14.84	33.247	24.656	329.7	.247	5.91	102.5							76
1	81	14.85	14.84	33.246	24.656	329.9	.265	5.93	102.8	2.4	.37	.3	.00	.11	.06	81
1	96	13.99	13.97	33.242	24.835	313.1	.313	5.81	99.0	2.9	.45	.7	.08	.20	.17	96
	100 ISL	12.97	12.96	33.254	25.049	306.7	.327	5.74	95.7							101
1	115	12.48	12.47	33.323	25.159	282.7	.373	5.38	89.2	5.4	.69	4.3	.02	.09	.13	116
	125 ISL	12.12	12.10	33.373	25.307	268.7	.399	5.09	83.5							126
1	135	11.56	11.54	33.433	25.459	254.5	.426	4.76	77.1	9.7	1.01	10.3	.01	.04	.05	136
	150 ISL	10.94	10.92	33.520	25.638	237.7	.462	4.37	69.9							151
1	155	10.74	10.72	33.555	25.701	231.7	.474	4.22	67.2	15.3	1.33	15.7	.01	.01	.02	156
1	175	9.91	9.89	33.731	25.980	205.4	.518	3.50	54.8	22.4	1.74	21.7	.01	.00	.01	176
1	196	9.35	9.33	33.847	26.163	188.3	.559	3.23	50.0	27.0	1.87	24.6	.01			197
	200 ISL	9.28	9.25	33.861	26.186	186.1	.566	3.20	49.5							202
1	216	9.00	8.98	33.905	26.264	179.0	.595	3.13	48.1	29.4	1.93	25.8	.01			217
	250 ISL	8.29	8.26	33.991	26.442	162.4	.654	3.22	48.7							252
1	251	8.28	8.25	33.992	26.445	162.1	.655	3.22	48.7	34.3	1.99	26.9	.01			252
	300 ISL	7.45	7.42	34.020	26.589	148.9	.731	3.21	47.7							302
1	301	7.43	7.40	34.020	26.591	148.7	.733	2.94	43.6	43.2	2.15	30.0	.00			303
1	358	6.78	6.75	34.069	26.719	137.0	.814	1.86	27.2	55.2	2.53	35.3	.01			360
	400 ISL	6.47	6.43	34.109	26.793	130.4	.870	1.36	19.7							403
1	444	6.18	6.14	34.144	26.858	124.6	.927	1.02	14.7	68.6	2.86	39.5	.00			447
	500 ISL	5.69	5.65	34.156	26.930	118.1	.995	.80	11.4							504
1	533	5.42	5.38	34.166	26.970	114.4	1.033	.72	10.2	80.8	3.04	42.5	.00			537
	600 ISL	5.15	5.10	34.233	27.055	106.8	1.107	.48	6.8							605
1	622	5.12	5.07	34.264	27.083	104.4	1.130	.40	5.6	91.3	3.21	43.7	.01			626

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 87 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 40.2 N	123 02.9 W	02/20/84	1819 GMT		360	14 KT	360 06 09	1	1023.7 MB	15.2 C	13.6 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.71	15.71	33.403	24.586	334.2	.000	5.84	103.1							0
1	1	15.71	15.71	33.403	24.586	334.2	.003	5.84	103.1	2.5	.34	.2	.00	.08	.06	1
	10 ISL	15.71	15.71	33.405	24.587	334.6	.033	5.94	104.9							10
1	12	15.72	15.72	33.405	24.585	334.7	.040	5.95	105.1	2.5	.34	.2	.00	.08	.05	12
	20 ISL	15.70	15.70	33.404	24.590	334.5	.067	5.91	104.3							20
1	27	15.68	15.67	33.402	24.593	334.4	.090	5.85	103.2	2.5	.34	.2	.00	.09	.05	27
	30 ISL	15.70	15.69	33.398	24.585	334.7	.100	5.84	103.1							30
1	43	15.70	15.70	33.397	24.584	335.8	.143	5.84	103.1	2.5	.34	.2	.00	.09	.05	43
	50 ISL	15.60	15.59	33.373	24.590	335.4	.167	5.84	102.9							50
1	58	15.46	15.45	33.345	24.598	334.9	.193	5.85	102.7	2.4	.35	.2	.00	.10	.05	58
1	74	15.33	15.31	33.318	24.608	334.4	.247	5.87	102.8	2.4	.35	.2	.00	.09	.06	74
	75 ISL	15.32	15.31	33.317	24.608	334.6	.251	5.87	102.8							76
1	84	15.32	15.31	33.317	24.609	334.6	.280	5.87	102.8	2.4	.35	.2	.00	.10	.06	84
1	99	15.28	15.26	33.344	24.639	332.1	.330	5.85	102.3	2.5	.36	.2	.00	.15	.13	99
	100 ISL	15.18	15.17	33.346	24.661	330.1	.335	5.84	101.9							101
1	120	13.75	13.73	33.442	25.040	294.4	.395	5.61	95.2	3.8	.49	1.7	.04	.19	.20	120
	125 ISL	13.67	13.65	33.531	25.125	286.5	.411	5.57	94.4							126
1	140	13.44	13.43	33.735	25.328	267.5	.454	5.40	91.2	4.4	.53	3.3	.01	.07	.09	141
	150 ISL	12.79	12.77	33.693	25.426	258.3	.479	5.17	86.1							151
1	160	12.00	11.98	33.629	25.530	248.5	.505	4.91	80.4	8.8	.90	8.6	.01	.03	.04	161
1	181	10.87	10.85	33.730	25.814	221.6	.554	4.63	74.1	13.4	1.14	12.9	.01	.01	.02	182
	200 ISL	9.65	9.63	33.785	26.066	197.7	.594	3.83	59.6							202
1	202	9.53	9.51	33.792	26.091	195.2	.598	3.74	58.1	23.4	1.67	20.7	.00			203
1	222	8.92	8.90	33.932	26.298	175.8	.635	3.55	54.5	28.5	1.80	23.1	.00			223
	250 ISL	8.54	8.51	34.032	26.437	163.0	.682	2.76	42.0							252
1	258	8.47	8.44	34.045	26.458	161.1	.695	2.54	38.6	37.1	2.19	27.4	.00			259
	300 ISL	7.78	7.75	34.048	26.563	150.2	.761	2.51	37.6							302
1	309	7.62	7.59	34.061	26.597	148.4	.775	2.39	35.6	45.2	2.33	29.8	.00			311
1	367	6.59	6.55	34.031	26.716	137.3	.857	2.19	31.9	55.7	2.51	32.7	.00			369
	400 ISL	6.23	6.20	34.047	26.775	131.8	.901	1.83	26.4							403
1	454	5.86	5.82	34.098	26.862	124.0	.971	1.18	16.9	71.8	2.93	37.7	.00			457
	500 ISL	5.64	5.60	34.148	26.929	118.0	1.026	.82	11.7							504
1	541	5.48	5.44	34.195	26.986	113.1	1.074	.59	8.4	83.8	3.12	42.5	.00			545
	600 ISL	5.25	5.20	34.256	27.062	106.4	1.138	.39	5.5							605
1	629	5.15	5.10	34.284	27.097	103.3	1.168	.35	4.9	93.1	3.22	43.6	.00			633

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 28

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 29.0 N	117 46.2 W	03/03/84	0255 GMT	69 M	290	04 KT	260 01 08		1015.2 MB	16.0 C	13.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.89	15.89	33.470	24.597	334.9	.000	6.35	112.6							0
1	1	15.89	15.89	33.470	24.597	333.2	.003	6.35	112.6	.9	.30	.1	.00	.95	.00	1
	10 ISL	15.27	15.26	33.464	24.731	320.7	.933	6.37	112.8							10
1	11	15.22	15.22	33.463	24.741	319.8	.036	6.56	114.7	.8	.29	.0	.00	.92	.31	11
	20 ISL	14.91	14.91	33.459	24.805	313.9	.064	6.34	110.1							20
1	21	14.89	14.88	33.459	24.810	313.5	.067	6.31	109.6	.9	.35	.0	.00	1.59	.34	21
	30 ISL	14.65	14.65	33.459	24.861	308.9	.096	6.31	109.6							30
1	31	14.62	14.61	33.459	24.868	308.3	.098	6.35	109.7	.9	.34	.0	.01	1.20	.37	31
1	41	13.87	13.87	33.420	24.994	296.5	.128	5.62	95.6	5.5	.54	1.5	.11	1.84	.93	41
	50 ISL	13.05	13.04	33.419	25.161	281.6	.155	5.05	84.5							50
1	51	12.98	12.97	33.410	25.168	280.2	.157	5.01	83.7	7.1	.89	5.9	.24	1.05	.59	51
1	62	12.08	12.07	33.466	25.385	259.7	.187	4.67	76.6	9.7	1.00	9.5	.10	.67	.41	62

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 99 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 25.0 N	117 54.3 W	03/03/84	0606 GMT	639 M	180	04 KT	260 01 08		1016.6 MB	16.7 C	14.6 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.91	15.91	33.484	24.604	332.5	.000	6.20	110.0	.8	.29	.0	.01	.38	.11	0
1	10	15.15	15.15	33.471	24.762	317.8	.052	6.44	112.5	.7	.31	.0	.00	.59	.13	10
	20 ISL	14.78	14.78	33.463	24.835	311.1	.064	6.50	112.6							20
1	25	14.66	14.66	33.460	24.860	308.9	.079	6.61	114.3	.5	.32	.0	.00	1.20	.20	25
	30 ISL	14.49	14.48	33.459	24.895	305.6	.095	6.46	111.4							30
1	41	14.03	14.03	33.455	24.988	297.1	.127	5.93	101.2	1.7	.44	.3	.03	1.32	.25	41
	50 ISL	13.48	13.48	33.444	25.094	287.3	.154	5.22	88.2							50
1	57	12.99	12.98	33.439	25.188	278.4	.173	4.80	80.2	8.1	1.02	6.5	.31	.94	.63	57
1	66	12.21	12.20	33.443	25.343	263.8	.198	4.75	78.1	9.4	.96	8.3	.12	.41	.38	66
	75 ISL	11.80	11.79	33.510	25.472	251.7	.222	4.63	75.5							76
1	76	11.78	11.77	33.515	25.480	251.0	.223	4.62	75.3	11.2	1.03	11.0	.03	.20	.21	76
1	92	11.23	11.22	33.575	25.628	237.3	.262	4.22	68.0	14.2	1.19	13.7	.02	.11	.13	92
	100 ISL	10.72	10.70	33.624	25.757	225.1	.282	4.02	64.1							101
1	105	10.41	10.40	33.657	25.836	217.6	.294	3.91	61.9	18.6	1.39	17.7	.01	.04	.06	106
1	121	10.17	10.16	33.713	25.921	209.9	.328	3.71	58.4	21.0	1.50	19.2	.01	.06	.14	122
	125 ISL	10.09	10.08	33.722	25.941	208.0	.335	3.70	58.2							126
1	146	9.57	9.56	33.794	26.085	194.7	.378	3.54	55.1	24.2	1.61	21.5	.01	.01	.03	147
	150 ISL	9.49	9.47	33.827	26.121	191.4	.385	3.44	53.4							151
1	165	9.16	9.14	33.931	26.259	178.5	.413	3.01	46.6	30.3	1.84	24.6	.00	.00	.02	166
1	186	8.79	8.77	34.003	26.375	167.8	.449	2.69	41.2	34.4	1.98	26.7	.00			187
	200 ISL	8.60	8.58	34.031	26.425	163.2	.473	2.58	39.3							202
1	205	8.55	8.52	34.038	26.440	161.9	.480	2.55	38.8	37.0	2.06	27.7	.00			206
1	236	8.08	8.05	34.078	26.542	152.5	.529	2.26	34.0	42.3	2.18	29.7	.00			237
	250 ISL	7.93	7.90	34.089	26.573	149.9	.551	2.16	32.4							252
1	275	7.70	7.68	34.100	26.615	146.2	.588	1.98	29.6	47.4	2.30	31.3	.00			277
	300 ISL	7.46	7.43	34.112	26.660	142.2	.624	1.78	26.4							302
1	335	7.11	7.08	34.132	26.725	136.4	.672	1.48	21.8	56.4	2.53	34.3	.00			337
	400 ISL	6.50	6.46	34.182	26.847	125.4	.757	.91	13.3							403
1	408	6.43	6.40	34.188	26.861	124.1	.768	.85	12.3	68.4	2.79	37.6	.00			411
1	483	6.05	6.01	34.236	26.948	116.5	.857	.57	8.2	77.0	2.91	39.1	.00			486
	500 ISL	5.98	5.93	34.248	26.967	115.0	.877	.52	7.5							504
1	559	5.78	5.73	34.288	27.026	110.1	.943	.41	5.9	83.6	3.01	40.1	.00			562

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 90 37

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 11.2 N	118 23.4 W	03/03/84	1227 GMT	1192 M	120	06 KT			1015.2 MB	15.8 C	14.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.66	15.66	33.451	24.633	329.8	.000	5.82	102.7	3.0	.29	.2	.00	.13	.02	0
1	10	15.55	15.55	33.436	24.647	328.7	.033	5.96	104.9	3.0	.30	.1	.00	.12	.01	10
	20 ISL	15.18	15.18	33.418	24.715	322.5	.065	5.92	103.4							20
1	21	15.15	15.14	33.417	24.721	322.0	.068	5.91	103.2	3.0	.30	.1	.00	.14	.02	21
	30 ISL	15.04	15.04	33.411	24.740	320.5	.098	5.91	103.2							30
1	32	15.03	15.03	33.410	24.741	320.4	.104	5.92	103.1	2.7	.31	.0	.00	.15	.04	32
1	44	14.94	14.93	33.407	24.760	319.0	.142	5.91	102.7	2.9	.30	.0	.00	.20	.05	44
	50 ISL	14.78	14.77	33.399	24.787	316.6	.161	5.89	102.0							50
1	55	14.51	14.51	33.390	24.837	311.9	.176	5.86	101.0	3.1	.34	.2	.01	.55	.20	55
1	66	13.06	13.05	33.382	25.130	284.1	.209	5.24	87.6	6.2	.65	4.8	.15	.57	.34	66
	75 ISL	12.05	12.04	33.425	25.359	262.5	.234	4.70	77.0							76
1	76	11.99	11.98	33.429	25.374	261.1	.236	4.67	76.4	9.7	.95	9.6	.04	.25	.21	76
1	93	11.13	11.12	33.528	25.609	239.0	.278	4.37	70.2	13.4	1.13	13.3	.02	.09	.12	93
	100 ISL	10.81	10.80	33.610	25.729	227.7	.296	4.21	67.1							101
1	107	10.52	10.51	33.689	25.842	217.2	.312	4.03	64.0	17.2	1.33	16.7	.01	.04	.05	108
	125 ISL	9.93	9.92	33.751	25.991	203.3	.349	3.60	56.5							126
1	130	9.77	9.76	33.759	26.023	200.2	.360	3.48	54.4	23.4	1.61	21.3	.00	.01	.03	131
	150 ISL	9.33	9.32	33.854	26.170	186.7	.398	3.16	48.8							151
1	158	9.18	9.16	33.893	26.225	181.5	.413	3.07	47.4	28.9	1.82	24.6	.00	.01	.02	159
1	190	8.59	8.57	33.979	26.387	166.7	.468	3.07	46.8	32.9	1.89	26.1	.01			191
	200 ISL	8.47	8.45	33.999	26.421	163.6	.485	2.97	45.2							202
1	223	8.23	8.21	34.037	26.487	157.6	.522	2.67	40.6	38.1	2.07	28.3	.01			224
	250 ISL	7.87	7.85	34.077	26.572	149.9	.563	2.26	33.9							252
1	255	7.81	7.79	34.083	26.586	148.7	.570	2.19	32.8	44.6	2.25	30.8	.00			256
1	299	7.26	7.23	34.115	26.690	139.2	.634	1.64	24.2	53.2	2.49	34.0	.01			301
	300 ISL	7.25	7.22	34.115	26.692	139.1	.636	1.63	24.1							302
1	365	6.64	6.61	34.152	26.804	129.0	.722	1.11	16.2	63.3	2.73	37.2	.00			367
	400 ISL	6.33	6.30	34.180	26.867	123.3	.767	.86	12.5							403
1	445	5.99	5.95	34.217	26.941	116.7	.821	.61	8.8	77.0	2.97	40.1	.00			448
	500 ISL	5.72	5.67	34.258	27.007	110.9	.883	.45	6.4							504
1	526	5.61	5.57	34.277	27.035	108.4	.912	.40	5.7	85.1	3.09	41.1	.00			530
	600 ISL	5.29	5.24	34.334	27.120	101.0	.989	.30	4.3							605
1	606	5.26	5.21	34.338	27.126	100.4	.995	.30	4.2	93.0	3.16	42.2	.00			610

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 90 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 55.1 N	118 56.1 W	03/03/84	1822 GMT	1290 M	060	07 KT	290 04 10	2	1015.9 MB	14.9 C	13.1 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.20	15.20	33.430	24.720	321.7	.000	5.93	103.7							0
1	2	15.20	15.20	33.430	24.720	321.5	.006	5.93	103.7	2.7	.33	.2	.00	.15	.03	2
	10 ISL	15.14	15.14	33.428	24.730	320.8	.032	6.07	106.0							10
1	12	15.14	15.13	33.428	24.732	320.7	.038	6.08	106.2	2.6	.33	.2	.00	.15	.06	12
	20 ISL	15.14	15.13	33.428	24.732	320.7	.064	5.98	104.4							20
1	22	15.13	15.13	33.427	24.732	321.0	.070	5.95	103.9	2.6	.33	.1	.00	.16	.04	22
	30 ISL	14.95	14.94	33.444	24.786	316.1	.096	5.93	103.2							30
1	32	14.90	14.89	33.448	24.800	314.8	.102	5.93	103.0	2.6	.33	.1	.00	.21	.10	32
1	42	14.82	14.81	33.457	24.823	312.8	.133	5.88	102.0	2.8	.33	.0	.00	.49	.18	42
	50 ISL	13.14	13.13	33.465	25.179	279.1	.157	5.03	84.3							50
1	52	12.73	12.72	33.471	25.264	271.1	.162	4.83	80.3	9.0	.84	7.8	.19	.77	.34	52
1	63	11.67	11.67	33.470	25.464	252.2	.191	4.54	73.8	10.9	1.05	11.4	.06	.34	.25	63
1	72	11.36	11.36	33.513	25.554	243.9	.213	4.29	69.3	12.7	1.17	13.4	.03	.21	.17	72
	75 ISL	11.22	11.21	33.534	25.596	239.8	.221	4.20	67.6							76
1	87	10.73	10.72	33.609	25.742	226.2	.248	3.91	62.3	16.9	1.39	16.9	.01	.10	.08	87
	100 ISL	10.33	10.32	33.668	25.858	215.6	.278	3.73	58.9							101
1	103	10.27	10.26	33.678	25.877	213.7	.283	3.70	58.4	19.7	1.51	19.2	.01	.04	.07	103
1	122	9.71	9.70	33.779	26.050	197.6	.324	3.46	54.0	23.6	1.66	21.7	.00	.01	.04	123
	125 ISL	9.62	9.61	33.795	26.076	195.1	.329	3.42	53.3							126
1	146	8.97	8.96	33.913	26.274	176.6	.369	3.14	48.2	29.5	1.86	24.9	.01	.00	.03	147
	150 ISL	8.90	8.89	33.926	26.295	174.7	.375	3.11	47.6							151
1	176	8.53	8.51	33.984	26.399	165.2	.420	2.89	44.0	34.2	2.01	27.0	.00			177
	200 ISL	8.14	8.12	34.029	26.494	156.6	.458	2.65	40.0							202
1	207	8.04	8.02	34.039	26.517	154.4	.469	2.58	38.8	40.0	2.14	29.3	.01			208
1	236	7.71	7.69	34.068	26.588	148.0	.512	2.25	33.6	45.1	2.29	31.2	.00			237
	250 ISL	7.57	7.55	34.093	26.628	144.5	.533	2.02	30.1							252
1	276	7.34	7.31	34.137	26.696	138.3	.571	1.61	23.9	52.9	2.52	34.0	.01			278
	300 ISL	7.14	7.11	34.153	26.736	134.8	.603	1.38	20.4							302
1	337	6.85	6.82	34.167	26.788	130.2	.652	1.12	16.4	61.1	2.75	36.5	.01			339
	400 ISL	6.32	6.29	34.221	26.901	120.1	.731	.68	9.9							403
1	411	6.23	6.20	34.232	26.921	118.3	.744	.62	9.0	73.1	2.99	39.4	.00			414
1	485	5.77	5.73	34.284	27.021	109.4	.828	.40	5.7	82.3	3.13	41.2	.00			488
	500 ISL	5.70	5.65	34.293	27.037	108.0	.844	.34	4.9							504
1	557	5.49	5.45	34.324	27.087	103.8	.905	.33	4.7	88.4	3.17	41.8	.00			561

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 55.1 N	118 56.1 W	03/04/84	0029 GMT	1660 M	290	07 KT	290 04 09	1	1013.9 MB	16.0 C	14.1 C	1/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.54	15.54	33.437	24.650	329.3	.000	5.89	103.7							0
1	1	15.54	15.54	33.437	24.650	328.1	.003	5.89	103.7	2.8	.32	.1	.00	.14	.04	1
	10 ISL	15.21	15.21	33.424	24.713	322.4	.033	5.99	103.8							10
1	11	15.19	15.19	33.423	24.717	322.1	.036	5.99	104.7	2.7	.31	.0	.00	.17	.04	11
	20 ISL	15.12	15.11	33.423	24.732	320.9	.065	5.93	103.5							20
1	21	15.11	15.11	33.423	24.733	320.9	.068	5.92	103.3	2.7	.31	.0	.00	.17	.05	21
	30 ISL	14.95	14.95	33.440	24.782	316.5	.097	5.92	103.0							30
1	31	14.94	14.93	33.442	24.787	316.0	.099	5.91	102.8	2.6	.31	.0	.00	.21	.07	31
1	40	14.83	14.82	33.448	24.815	313.6	.128	5.39	93.5	2.6	.30	.0	.00	.32	.18	40
	50 ISL	14.79	14.79	33.448	24.822	313.0	.159	5.63	96.9							50
1	51	14.37	14.37	33.444	24.909	304.9	.162	5.64	97.0	3.8	.41	1.1	.04	.73	.33	51
1	60	12.83	12.82	33.465	25.240	273.5	.188	4.90	81.6	8.3	.79	7.1	.18	.76	.35	60
1	72	11.44	11.43	33.524	25.549	244.3	.219	4.25	68.7	13.0	1.14	13.5	.03	.28	.19	72
	75 ISL	11.24	11.23	33.540	25.597	239.8	.227	4.17	67.1							76
1	85	10.85	10.84	33.587	25.704	229.8	.249	4.00	63.9	16.0	1.31	16.2	.01	.11	.12	85
	100 ISL	10.18	10.17	33.693	25.903	211.1	.283	3.58	56.5							101
1	101	10.16	10.15	33.697	25.910	210.5	.284	3.57	56.2	20.4	1.55	20.2	.00	.03	.05	101
1	119	9.59	9.58	33.802	26.087	194.0	.323	3.34	52.0	24.8	1.68	22.8	.00	.01	.05	120
	125 ISL	9.49	9.47	33.824	26.122	190.8	.333	3.29	51.9							126
1	145	9.18	9.16	33.889	26.223	181.5	.371	3.15	48.6	28.6	1.80	24.8	.00	.01	.03	146
	150 ISL	9.08	9.07	33.905	26.250	179.0	.379	3.12	48.0							151
1	175	8.61	8.59	33.971	26.377	167.3	.423	2.98	45.4	33.0	1.92	26.7	.00			176
	200 ISL	8.32	8.30	34.008	26.449	160.8	.464	2.86	43.2							202
1	205	8.27	8.25	34.013	26.461	159.7	.472	2.82	42.7	36.7	2.02	28.0	.01			206
1	235	7.84	7.82	34.058	26.561	150.6	.518	2.39	35.8	42.8	2.18	30.3	.00			236
	250 ISL	7.68	7.65	34.076	26.599	147.2	.541	2.17	32.3							252
1	273	7.47	7.44	34.101	26.649	142.7	.575	1.84	27.3	49.8	2.40	33.2	.01			275
	300 ISL	7.23	7.21	34.131	26.706	137.7	.612	1.53	22.5							302
1	333	6.96	6.93	34.163	26.770	132.0	.656	1.20	17.6	59.6	2.66	36.3	.01			335
	400 ISL	6.34	6.31	34.213	26.891	121.0	.741	.75	10.8							403
1	405	6.30	6.26	34.216	26.900	120.2	.748	.72	10.4	71.4	2.89	39.1	.00			408
1	479	5.85	5.81	34.271	27.001	111.3	.833	.45	6.4	81.0	3.06	41.0	.00			482
	500 ISL	5.74	5.70	34.285	27.026	109.1	.856	.39	5.5							504
1	554	5.52	5.47	34.320	27.081	104.4	.914	.36	5.1	88.5	3.13	42.0	.00			558

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 55.1 N	118 56.1 W	03/04/84	0537 GMT	1660 M	290	04 KT	280 02 08		1014.6 MB	15.0 C	13.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.27	15.27	33.426	24.700	323.3	.000	5.93	103.8	2.7	.35	.2	.00	.16	.03	0
1	10	15.22	15.22	33.423	24.710	322.7	.032	5.94	103.9	2.7	.33	.1	.00	.16	.03	10
1	20	15.08	15.08	33.446	24.759	318.5	.064	5.96	104.0	2.7	.32	.1	.00	.17	.04	20
1	30	14.95	14.95	33.464	24.784	316.2	.096	5.93	103.2	2.7	.31	.0	.00	.19	.07	30
1	41	14.73	14.73	33.447	24.835	311.7	.130	5.86	101.5	2.9	.34	.3	.01	.49	.17	41
1	50	12.70	12.69	33.469	25.269	270.5	.156	4.82	80.1	9.0	.85	8.0	.16	.69	.38	50
1	60	11.72	11.71	33.505	25.483	250.3	.182	4.37	71.1	12.2	1.11	12.2	.06	.44	.37	60
1	71	11.25	11.25	33.553	25.605	238.9	.209	4.13	66.6	14.6	1.25	14.6	.03	.21	.16	71
	75 ISL	11.08	11.07	33.569	25.649	234.9	.219	4.06	65.2							76
1	87	10.65	10.64	33.615	25.761	224.4	.245	3.89	61.9	17.4	1.40	17.5	.02	.09	.10	87
	100 ISL	10.19	10.17	33.690	25.900	211.4	.275	3.60	56.7							101
1	102	10.14	10.13	33.699	25.915	210.0	.278	3.57	56.2	21.2	1.57	20.3	.01	.04	.06	102
1	121	9.66	9.64	33.790	26.067	195.9	.318	3.39	52.8	24.4	1.69	22.4	.01	.01	.04	122
	125 ISL	9.58	9.57	33.806	26.093	193.5	.325	3.35	52.1							126
1	146	9.16	9.15	33.890	26.226	181.2	.365	3.11	48.0	28.8	1.84	25.1	.01	.00	.03	147
	150 ISL	9.09	9.08	33.902	26.247	179.3	.372	3.08	47.5							151
1	176	8.65	8.64	33.968	26.367	168.2	.417	2.95	45.0	33.2	1.96	26.9	.01			177
	200 ISL	8.37	8.35	34.004	26.440	161.7	.457	2.84	43.1							202
1	207	8.28	8.26	34.013	26.459	159.9	.468	2.79	42.2	36.7	2.04	28.4	.01			208
1	235	7.76	7.74	34.066	26.580	148.8	.511	2.28	34.1	44.2	2.25	31.2	.00			236
	250 ISL	7.56	7.53	34.085	26.624	144.8	.533	2.04	30.3							252
1	275	7.30	7.28	34.111	26.680	139.7	.569	1.69	25.0	52.2	2.48	34.0	.01			277
	300 ISL	7.10	7.08	34.136	26.723	135.5	.603	1.43	21.0							302
1	335	6.85	6.82	34.167	26.787	130.3	.649	1.13	16.6	61.0	2.72	36.4	.00			337
	400 ISL	6.32	6.29	34.215	26.896	120.6	.731	.70	10.2							403
1	408	6.26	6.22	34.221	26.908	119.4	.741	.66	9.5	72.3	2.96	39.2	.01			411
1	483	5.82	5.78	34.286	27.016	109.9	.826	.41	5.9	81.2	3.11	40.6	.00			486
	500 ISL	5.73	5.69	34.299	27.038	108.0	.845	.37	5.3							504
1	556	5.47	5.42	34.332	27.096	102.9	.904	.31	4.4	89.2	3.18	41.8	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 55.1 N	118 56.1 W	03/04/84	1301 GMT	1660 M	220 07 KT	250 02 08	2	1013.9 MB	14.3 C	12.9 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.21	15.21	33.453	24.735	320.2	.000	5.90	103.2							0
1	1	15.21	15.21	33.453	24.735	320.1	.003	5.90	103.2	2.6	.32	.2	.00	.16	.02	1
	10 ISL	15.16	15.16	33.451	24.744	319.4	.032	5.92	103.4							10
1	11	15.16	15.16	33.451	24.745	319.4	.035	6.09	106.4	2.6	.32	.1	.00	.16	.03	11
	20 ISL	15.16	15.15	33.451	24.745	319.4	.064	5.92	103.4							20
1	21	15.14	15.13	33.451	24.749	319.3	.067	5.90	103.0	2.6	.32	.0	.00	.14	.03	21
	30 ISL	15.02	15.01	33.448	24.774	317.2	.096	5.90	103.0							30
1	33	14.96	14.96	33.447	24.785	316.3	.105	5.92	103.0	2.6	.31	.1	.00	.18	.05	33
1	43	14.75	14.74	33.448	24.832	312.0	.136	5.83	101.0	2.6	.32	.3	.00	.58	.15	43
	50 ISL	13.66	13.65	33.450	25.062	290.3	.158	5.27	89.3							50
1	53	13.18	13.17	33.456	25.164	280.6	.166	5.03	84.4	7.3	.71	6.1	.17	.66	.37	53
1	63	12.06	12.05	33.480	25.399	258.4	.192	4.53	74.2	10.8	1.00	10.6	.09	.44	.32	63
1	72	11.40	11.39	33.540	25.569	242.4	.215	4.19	67.7	13.7	1.19	13.8	.04	.27	.21	72
	75 ISL	11.19	11.18	33.557	25.620	237.6	.223	4.10	66.0							76
1	87	10.59	10.58	33.617	25.772	223.3	.250	3.85	61.2	17.7	1.41	17.7	.01	.09	.09	87
	100 ISL	10.15	10.13	33.695	25.911	210.4	.279	3.59	56.5							101
1	103	10.08	10.07	33.709	25.933	208.3	.284	3.55	55.8	20.9	1.58	20.6	.01	.03	.05	103
1	122	9.60	9.58	33.806	26.088	193.9	.324	3.31	51.5	24.7	1.72	22.8	.00	.01	.04	123
	125 ISL	9.52	9.51	33.818	26.111	191.8	.329	3.28	51.0							126
1	147	8.99	8.98	33.921	26.277	176.3	.370	3.06	47.0	29.9	1.86	25.5	.00	.01	.02	148
	150 ISL	8.96	8.95	33.926	26.286	175.5	.375	3.05	46.9							151
1	177	8.73	8.71	33.959	26.349	169.9	.421	2.96	45.2	32.3	1.93	26.6	.00			178
	200 ISL	8.38	8.36	34.015	26.446	161.1	.459	2.68	40.6							202
1	207	8.27	8.25	34.030	26.476	158.4	.470	2.59	39.2	37.7	2.11	28.9	.00			208
1	237	7.81	7.78	34.057	26.566	150.2	.516	2.37	35.5	42.5	2.22	30.8	.00			238
	250 ISL	7.70	7.67	34.069	26.591	148.0	.536	2.23	33.4							252
1	276	7.53	7.50	34.093	26.635	144.2	.575	1.95	28.7	48.0	2.39	32.8	.00			278
	300 ISL	7.30	7.27	34.119	26.688	139.6	.608	1.62	24.0							302
1	336	6.93	6.89	34.157	26.769	132.0	.657	1.19	17.5	59.5	2.68	35.9	.00			338
	400 ISL	6.40	6.37	34.206	26.878	122.4	.739	.77	11.1							403
1	411	6.32	6.29	34.211	26.894	120.9	.752	.72	10.4	71.0	2.93	38.8	.00			414
1	485	5.89	5.85	34.273	26.997	111.8	.838	.44	6.3	80.3	3.06	40.5	.00			488
	500 ISL	5.81	5.77	34.284	27.016	110.1	.855	.40	5.7							504
1	560	5.49	5.44	34.327	27.090	103.6	.919	.31	4.4	88.4	3.15	41.9	.00			564

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 53

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 39.1 N	119 28.9 W	03/04/84	2014 GMT	1290 M	300 04 KT	290 04 08	1	1015.2 MB	16.0 C	14.0 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.12	15.12	33.449	24.752	318.4	.000	5.92	103.3	2.7	.39	.0	.00	.23	.08	0
1	10	14.82	14.81	33.446	24.815	312.7	.031	6.04	104.8	2.8	.33	.0	.00	.30	.11	10
	20 ISL	14.81	14.81	33.446	24.816	312.7	.063	5.99	103.9							20
1	21	14.79	14.78	33.446	24.822	312.4	.066	5.98	103.7	2.8	.33	.0	.00	.30	.15	21
	30 ISL	14.77	14.76	33.445	24.825	312.4	.094	5.93	102.8							30
1	31	14.77	14.76	33.445	24.826	312.3	.097	5.93	102.8	2.7	.33	.0	.00	.35	.15	31
1	40	14.71	14.71	33.445	24.838	311.4	.125	5.90	102.1	3.1	.33	.0	.00	.39	.29	40
	50 ISL	14.69	14.69	33.449	24.844	311.1	.156	5.89	101.9							50
1	51	14.49	14.48	33.450	24.890	306.8	.159	5.76	99.3	3.7	.39	.8	.02	.36	.21	51
1	61	12.94	12.93	33.477	25.227	274.8	.188	4.87	81.3	8.5	.79	7.2	.19	.26	.25	61
1	71	11.49	11.48	33.535	25.548	244.4	.214	4.18	67.7	13.6	1.17	13.6	.08	.21	.19	71
	75 ISL	11.13	11.12	33.573	25.644	235.3	.224	3.98	64.0							76
1	86	10.61	10.60	33.659	25.802	220.4	.248	3.67	58.4	19.0	1.44	18.6	.04	.09	.10	86
	100 ISL	10.33	10.32	33.702	25.885	212.8	.279	3.51	55.5							101
1	101	10.32	10.31	33.703	25.887	212.7	.280	3.51	55.5	20.7	1.56	20.1	.02	.05	.09	101
1	119	9.74	9.73	33.804	26.064	196.1	.319	3.21	50.1	25.3	1.71	23.0	.01	.01	.05	120
	125 ISL	9.61	9.59	33.831	26.108	192.1	.330	3.13	48.7							126
1	145	9.16	9.15	33.919	26.249	179.0	.367	2.83	43.6	30.8	1.91	25.8	.01	.00	.04	146
	150 ISL	9.03	9.01	33.939	26.286	175.6	.376	2.76	42.4							151
1	175	8.43	8.41	34.021	26.443	161.0	.418	2.43	36.9	38.2	2.11	29.0	.01			176
	200 ISL	8.33	8.31	34.039	26.474	158.5	.458	2.34	35.4							202
1	205	8.32	8.29	34.040	26.476	158.3	.466	2.32	35.1	39.6	2.15	29.8	.01			206
1	235	7.83	7.81	34.089	26.587	148.1	.511	1.98	29.7	45.8	2.31	32.1	.00			236
	250 ISL	7.65	7.63	34.104	26.625	144.7	.534	1.84	27.4							252
1	274	7.42	7.39	34.123	26.673	140.4	.568	1.63	24.2	51.5	2.68	34.1	.00			276
	300 ISL	7.19	7.16	34.144	26.723	135.1	.604	1.43	21.0							302
1	334	6.91	6.88	34.169	26.781	130.9	.649	1.18	17.3	60.9	2.67	36.5	.00			336
	400 ISL	6.44	6.40	34.211	26.878	122.4	.733	.79	11.4							403
1	409	6.38	6.34	34.217	26.891	121.3	.744	.74	10.7	70.6	2.87	38.7	.00			412
1	484	5.87	5.83	34.263	26.992	112.2	.831	.48	6.9	80.5	3.02	40.7	.00			487
	500 ISL	5.79	5.75	34.273	27.010	110.7	.849	.44	6.3							504
1	559	5.60	5.55	34.307	27.061	106.4	.913	.36	5.1	86.6	3.09	41.6	.00			563

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 25.1 N	119 57.6 W	03/05/84	0129 GMT	861 M	310	16 KT	320 05 11	2	1013.9 MB	14.9 C	13.2 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.50	14.50	33.473	24.903	304.2	.000	5.91	101.9							0
1	1	14.50	14.50	33.473	24.903	304.1	.003	5.91	101.9	3.2	.38	.8	.03	.45	.14	1
	10 ISL	14.50	14.50	33.473	24.903	304.1	.030	6.06	104.5							10
1	11	14.50	14.49	33.473	24.904	304.2	.033	6.07	104.6	3.4	.38	.7	.02	.48	.11	11
	20 ISL	14.41	14.40	33.474	24.925	302.5	.061	6.02	103.6							20
1	26	14.34	14.33	33.475	24.940	301.3	.079	5.96	102.4	2.4	.39	.5	.02	.66	.16	26
	30 ISL	14.32	14.32	33.476	24.944	301.0	.091	5.95	102.3							30
1	41	14.25	14.25	33.478	24.960	299.8	.123	5.95	102.1	1.7	.37	.4	.01	.85	.21	41
	50 ISL	14.13	14.13	33.478	24.985	297.5	.151	5.85	100.2							50
1	56	13.94	13.94	33.478	25.025	294.0	.168	5.70	97.2	2.5	.46	1.7	.05	.62	.29	56
1	66	11.89	11.88	33.681	25.433	255.2	.195	4.50	73.5	10.9	1.02	11.1	.12	.29	.25	66
	75 ISL	11.34	11.33	33.528	25.570	242.4	.218	4.19	67.6							76
1	77	11.31	11.30	33.538	25.583	241.1	.222	4.17	67.3	13.8	1.22	14.3	.08	.32	.21	77
1	92	10.47	10.46	33.648	25.818	219.0	.257	3.68	58.3	18.6	1.48	18.9	.04	.13	.15	92
	100 ISL	10.05	10.04	33.723	25.949	206.7	.275	3.47	54.5							101
1	106	9.79	9.77	33.774	26.033	198.9	.288	3.34	52.2	23.6	1.68	22.3	.02	.08	.11	107
1	121	9.53	9.52	33.824	26.115	191.3	.317	3.21	49.9	25.8	1.77	23.6	.01	.07	.10	122
	125 ISL	9.45	9.44	33.841	26.140	189.0	.324	3.15	48.9							126
1	146	8.97	8.95	33.938	26.294	174.7	.362	2.80	43.0	31.4	1.96	26.6	.01	.05	.14	147
	150 ISL	8.88	8.87	33.953	26.320	172.3	.369	2.75	42.1							151
1	166	8.55	8.53	34.005	26.412	163.7	.396	2.55	38.8	36.0	2.10	28.2	.01	.02	.09	167
1	187	8.29	8.27	34.036	26.477	157.9	.429	2.42	36.6	38.7	2.16	29.4	.01			188
	200 ISL	8.15	8.13	34.051	26.509	155.0	.450	2.31	34.9							202
1	206	8.08	8.06	34.058	26.525	153.6	.459	2.25	33.9	41.2	2.23	30.3	.01			207
1	235	7.57	7.55	34.113	26.643	142.7	.502	1.79	26.7	48.7	2.43	32.8	.01			236
	250 ISL	7.35	7.33	34.135	26.692	138.2	.523	1.57	23.2							252
1	274	7.05	7.03	34.162	26.755	132.5	.556	1.26	18.5	57.7	2.66	35.8	.00			276
	300 ISL	6.79	6.76	34.184	26.808	127.7	.589	1.03	15.1							302
1	334	6.50	6.47	34.208	26.867	122.5	.632	.81	11.8	67.6	2.87	38.0	.01			336
	400 ISL	6.03	6.00	34.276	26.981	112.3	.709	.47	6.7							403
1	407	5.99	5.95	34.282	26.991	111.4	.718	.44	6.3	78.5	3.08	40.2	.00			410
1	482	5.74	5.70	34.316	27.050	106.6	.799	.37	5.3	84.4	3.13	41.1	.00			485
	500 ISL	5.69	5.65	34.321	27.060	105.9	.818	.35	5.1							504
1	555	5.61	5.56	34.331	27.079	104.7	.876	.35	5.0	87.1	3.16	41.2	.00			559

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 04.4 N	120 40.3 W	02/21/84	1725 GMT		330	10 KT	340 08 12	1	1020.0 MB	15.2 C	13.0 C	5/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.23	14.23	33.401	24.904	304.0	.000	6.06	103.9							0
1	1	14.23	14.23	33.401	24.904	304.0	.003	6.06	103.9	2.7	.44	.2	.00	.39	.27	1
	10 ISL	14.21	14.21	33.399	24.906	304.0	.030	6.05	103.6							10
1	12	14.21	14.21	33.398	24.907	304.0	.036	6.04	103.5	2.7	.43	.2	.00	.40	.25	12
	20 ISL	14.18	14.17	33.399	24.915	303.6	.061	6.00	102.7							20
1	27	14.15	14.14	33.400	24.922	303.0	.082	5.97	102.1	2.7	.44	.2	.02	.52	.33	27
	30 ISL	14.14	14.13	33.406	24.928	302.5	.091	5.98	102.2							30
1	42	14.11	14.11	33.429	24.952	300.5	.127	6.02	102.9	2.5	.43	.2	.00	.71	.37	42
	50 ISL	14.10	14.09	33.438	24.962	299.8	.151	6.02	103.0							50
1	57	14.09	14.08	33.449	24.973	299.0	.171	6.03	103.1	1.6	.42	.2	.00	.79	.36	57
1	67	13.34	13.33	33.373	25.068	290.1	.201	5.56	93.5	4.7	.61	3.1	.06	.41	.33	67
	75 ISL	12.07	12.06	33.380	25.321	266.1	.224	5.03	82.3							76
1	78	11.68	11.67	33.393	25.404	258.2	.231	4.87	79.1	9.8	.99	9.4	.02	.08	.13	78
1	93	11.21	11.20	33.452	25.535	246.0	.268	4.64	74.6	12.0	1.14	12.0	.01	.05	.09	93
	100 ISL	10.93	10.91	33.500	25.623	237.8	.286	4.47	71.4							101
1	107	10.66	10.64	33.551	25.711	229.7	.304	4.28	68.1	15.9	1.33	15.4	.01	.02	.05	108
1	122	10.31	10.30	33.632	25.833	218.2	.337	3.96	62.5	18.3	1.46	17.9	.01	.02	.04	123
	125 ISL	10.25	10.24	33.645	25.854	216.3	.343	3.91	61.7							126
1	148	9.68	9.67	33.761	26.041	199.0	.391	3.50	54.6	23.4	1.73	22.1	.00	.00	.02	149
	150 ISL	9.64	9.62	33.770	26.055	197.6	.395	3.47	54.0							151
1	168	9.20	9.18	33.862	26.198	184.3	.429	3.15	48.6	28.3	1.90	24.8	.00	.00	.02	169
1	189	8.85	8.83	33.960	26.330	172.1	.467	2.89	44.3	32.4	2.03	26.5	.01			190
	200 ISL	8.66	8.64	33.978	26.375	168.0	.485	2.89	44.0							202
1	209	8.51	8.49	33.988	26.405	165.2	.500	2.88	43.8	34.5	2.04	27.4	.00			210
1	240	8.10	8.07	34.049	26.516	155.1	.549	2.50	37.7	40.4	2.21	29.5	.00			241
	250 ISL	8.00	7.98	34.060	26.539	153.0	.565	2.40	36.2							252
1	281	7.75	7.72	34.086	26.597	147.9	.612	2.12	31.7	45.7	2.36	31.7	.00			283
	300 ISL	7.54	7.51	34.111	26.647	143.5	.640	1.88	27.9							302
1	342	7.06	7.03	34.159	26.753	133.9	.698	1.34	19.7	57.9	2.70	35.4	.00			344
	400 ISL	6.48	6.44	34.160	26.832	126.5	.773	.90	13.1							403
1	417	6.32	6.28	34.162	26.854	124.7	.795	.82	11.9	70.1	2.94	39.0	.00			420
1	496	5.77	5.72	34.246	26.991	112.3	.888	.67	9.6	80.2	3.07	41.3	.00			499
	500 ISL	5.74	5.70	34.250	26.998	111.8	.893	.66	9.4							504
1	572	5.47	5.42	34.310	27.079	104.7	.971	.40	5.7	87.4	3.16	42.3	.00			576

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 04.2 N	120 39.4 W	02/22/84	0034 GMT		330	26 KT	330 07 07	1	1017.3 MB	14.2 C	11.7 C	2/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.36	14.36	33.348	24.837	310.3	.000	5.97	102.6	5.0	.38	.1	.00	.20	.10	0
1	10	14.37	14.37	33.344	24.831	311.2	.031	6.02	103.4	2.9	.38	.1	.00	.21	.11	10
	20 ISL	14.37	14.37	33.344	24.832	311.2	.062	6.02	103.4							20
1	24	14.36	14.35	33.345	24.835	311.2	.074	6.01	103.2	2.9	.40	.1	.00	.23	.12	24
	30 ISL	14.31	14.30	33.353	24.852	309.7	.093	6.01	103.1							30
1	37	14.23	14.22	33.368	24.880	307.3	.114	6.01	103.0	2.7	.42	.1	.00	.40	.26	37
1	50	14.08	14.07	33.419	24.951	300.8	.154	6.01	102.7	2.5	.42	.1	.02	.69	.38	50
1	64	14.04	14.03	33.446	24.980	298.5	.195	6.00	102.5	2.3	.42	.1	.02	.68	.38	64
1	73	14.02	14.01	33.475	25.007	296.2	.222	6.10	104.1	1.4	.38	.1	.00	.58	.39	73
	75 ISL	13.99	13.96	33.471	25.011	296.1	.229	6.03	102.8							76
1	86	13.98	13.97	33.470	25.012	296.1	.260	6.01	102.5	1.5	.41	.1	.02	.62	.37	86
	100 ISL	12.22	12.20	33.456	25.352	267.3	.301	5.16	84.8							101
1	105	11.56	11.55	33.412	25.440	255.4	.313	4.83	78.3	9.8	.97	9.7	.02	.15	.20	105
1	122	10.36	10.35	33.649	25.838	217.8	.355	3.89	61.5	19.1	1.51	18.2	.01	.04	.07	123
	125 ISL	10.24	10.23	33.667	25.873	214.5	.361	3.87	60.2							126
1	140	9.68	9.67	33.752	26.033	199.5	.392	3.50	54.6	23.4	1.71	21.6	.01	.01	.04	141
	150 ISL	9.41	9.39	33.819	26.131	190.4	.411	3.24	50.2							151
1	158	9.20	9.19	33.873	26.206	183.4	.427	3.05	47.1	28.5	1.92	24.9	.01	.01	.03	159
1	177	8.79	8.77	33.961	26.340	170.8	.460	2.89	44.2	32.5	2.03	26.6	.01			178
1	195	8.54	8.52	33.981	26.396	165.8	.490	2.89	44.0	34.2	2.05	27.1	.00			196
	200 ISL	8.48	8.46	33.989	26.412	164.4	.498	2.85	43.3							202
1	227	8.18	8.16	34.035	26.493	157.1	.542	2.53	38.2	39.6	2.19	28.9	.00			228
	250 ISL	7.95	7.93	34.061	26.547	152.3	.577	2.29	34.5							252
1	273	7.74	7.71	34.084	26.597	147.9	.613	2.06	30.8	46.4	2.41	31.5	.00			275
	300 ISL	7.48	7.45	34.114	26.658	142.4	.651	1.76	26.2							302
1	324	7.25	7.22	34.139	26.710	137.7	.685	1.50	22.2	54.9	2.63	34.2	.00			326
	400 ISL	6.65	6.61	34.195	26.839	126.4	.785	.91	13.2							403
1	404	6.61	6.58	34.197	26.844	125.8	.791	.88	12.8	66.7	2.86	37.8	.00			407
1	487	5.90	5.86	34.225	26.958	115.5	.890	.57	8.2	77.5	3.03	40.6	.00			490
	500 ISL	5.82	5.77	34.234	26.976	113.9	.905	.53	7.6							504
1	574	5.48	5.43	34.303	27.072	105.4	.986	.35	5.0	87.8	3.16	42.0	.00			578

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 04.8 N	120 40.0 W	02/22/84	0532 GMT		330	24 KT	330 09 08	1	1017.2 MB	12.9 C	10.0 C	1/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.23	14.23	33.354	24.869	307.2	.000	6.01	103.0							0
1	1	14.23	14.23	33.354	24.869	307.3	.003	6.01	103.0	2.2	.39	.1	.00	.40	.24	1
	10 ISL	14.24	14.24	33.354	24.866	307.8	.031	6.06	103.8							10
1	11	14.24	14.24	33.354	24.866	307.9	.034	6.06	103.9	3.0	.39	.2	.00	.41	.24	11
	20 ISL	14.25	14.24	33.354	24.865	308.2	.062	6.06	103.8							20
1	26	14.25	14.25	33.354	24.865	308.4	.080	6.05	103.7	2.9	.39	.1	.00	.39	.25	26
	30 ISL	14.25	14.25	33.354	24.864	308.6	.092	6.04	103.6							30
1	41	14.26	14.26	33.354	24.862	309.0	.126	6.04	103.5	2.9	.40	.2	.00	.40	.23	41
	50 ISL	14.26	14.25	33.361	24.869	308.7	.154	6.03	103.4							50
1	56	14.25	14.24	33.367	24.876	308.2	.172	6.03	103.4	2.8	.40	.2	.00	.39	.23	56
1	71	14.07	14.06	33.409	24.946	302.0	.217	6.04	103.2	2.7	.43	.2	.00	.76	.36	71
	75 ISL	14.05	14.04	33.431	24.968	300.0	.230	5.99	102.3							76
1	82	14.03	14.02	33.447	24.983	298.7	.250	5.96	101.7	3.5	.44	.2	.03	.58	.38	82
1	97	12.02	12.01	33.391	25.338	265.1	.292	4.90	80.2	9.9	.95	8.6	.04	.13	.22	97
	100 ISL	11.75	11.74	33.407	25.401	259.1	.301	4.78	77.7							101
1	116	10.87	10.86	33.526	25.653	235.4	.342	4.39	70.1	14.8	1.23	14.2	.01	.07	.10	117
	125 ISL	10.52	10.50	33.589	25.765	224.9	.362	4.15	65.7							126
1	136	10.14	10.12	33.668	25.892	212.9	.387	3.84	60.4	19.9	1.49	18.9	.01	.04	.10	137
	150 ISL	9.75	9.74	33.742	26.014	201.6	.415	3.58	55.9							151
1	156	9.60	9.58	33.774	26.064	196.9	.427	3.47	54.0	24.3	1.69	22.4	.00	.02	.05	157
1	176	9.15	9.13	33.899	26.235	180.9	.465	2.98	45.9	30.1	1.97	25.4	.01	.01	.04	177
1	196	8.76	8.74	33.977	26.355	169.8	.500	2.88	44.0	32.4	1.96	26.7	.01			197
	200 ISL	8.68	8.66	33.979	26.373	168.2	.506	2.94	44.9							202
1	217	8.40	8.38	34.004	26.435	162.5	.534	3.16	47.9	34.6	2.05	27.6	.01			218
	250 ISL	8.06	8.03	34.052	26.524	154.5	.587	2.49	37.5							252
1	252	8.05	8.02	34.054	26.528	154.2	.589	2.44	36.7	39.4	2.19	29.8	.01			253
	300 ISL	7.42	7.39	34.128	26.677	140.5	.661	1.67	24.8							302
1	302	7.39	7.36	34.131	26.684	139.9	.664	1.64	24.3	51.8	2.51	33.8	.01			304
1	358	7.01	6.98	34.180	26.776	131.8	.739	1.17	17.2	59.9	2.73	36.1	.00			360
	400 ISL	6.52	6.49	34.198	26.856	124.5	.793	.89	12.9							403
1	444	6.02	5.98	34.217	26.937	117.1	.847	.66	9.5	75.3	3.00	40.3	.00			447
	500 ISL	5.67	5.63	34.263	27.016	109.9	.910	.46	6.5							504
1	530	5.54	5.50	34.289	27.053	106.7	.943	.39	5.5	85.6	3.14	42.1	.00			534
	600 ISL	5.26	5.21	34.332	27.121	100.8	1.015	.38	5.3							605
1	617	5.21	5.16	34.340	27.134	99.7	1.032	.33	4.7	92.9	3.24	43.2	.00			621

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 04.7 N	120 38.4 W	02/22/84	1234 GMT		320	29 KT	330 09 08	1	1015.4 MB	12.7 C	9.3 C	2/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.07	14.07	33.360	24.907	303.6	.000	6.06	103.5							0
1	1	14.07	14.07	33.360	24.907	303.7	.003	6.06	103.5	3.2	.41	.2	.00	.39	.31	1
	10 ISL	14.08	14.08	33.361	24.906	304.2	.030	5.98	102.2							10
1	11	14.08	14.08	33.361	24.904	304.2	.033	5.98	102.2	3.1	.41	.2	.00	.43	.28	11
	20 ISL	14.08	14.08	33.364	24.908	304.2	.061	5.99	102.3							20
1	26	14.08	14.07	33.365	24.909	304.1	.079	6.00	102.5	3.1	.41	.2	.00	.44	.33	26
	30 ISL	14.07	14.07	33.378	24.920	303.2	.091	5.99	102.4							30
1	41	14.06	14.05	33.414	24.952	300.5	.124	5.97	102.0	3.1	.42	.3	.02	.80	.60	41
	50 ISL	14.01	14.00	33.420	24.966	299.4	.151	5.97	101.9							50
1	57	13.98	13.97	33.422	24.975	298.8	.172	5.97	101.8	2.3	.42	.3	.03	.90	.44	57
2	71	13.95	13.94	33.438	24.993	297.5	.213	5.93	101.1					.64	.42	71
	75 ISL	13.73	13.72	33.415	25.021	294.9	.226	5.76	97.7							76
2	81	13.35	13.34	33.381	25.073	290.1	.242	5.50	92.5	5.2	.60	3.3	.07	.32	.36	81
2	96	12.17	12.16	33.366	25.291	269.5	.284	5.01	82.2	8.5	.87	7.6	.04	.11	.20	96
	100 ISL	11.89	11.87	33.384	25.358	263.2	.296	4.89	79.8							101
2	115	11.10	11.09	33.477	25.574	242.9	.335	4.54	72.9	13.0	1.18	12.8	.02	.05	.11	116
	125 ISL	10.79	10.77	33.533	25.674	233.5	.358	4.34	69.2							126
2	135	10.49	10.47	33.596	25.775	224.1	.382	4.12	65.3					.03	.07	136
	150 ISL	9.95	9.94	33.696	25.945	208.2	.413	3.74	58.7							151
2	155	9.77	9.75	33.731	26.003	202.7	.424	3.61	56.6	23.3	1.68	21.1	.01	.00	.05	156
2	175	9.25	9.23	33.845	26.177	186.4	.463	3.22	49.7	28.2	1.87	24.4	.01	.01	.03	176
2	196	9.04	9.02	33.924	26.273	177.7	.497	2.93	45.1	31.2	1.99	26.1	.01			195
	200 ISL	8.90	8.88	33.945	26.311	174.1	.508	2.92	44.7							202
2	214	8.56	8.54	33.987	26.397	166.1	.531	2.91	44.3	34.6	2.04	27.2	.00			215
2	249	8.13	8.10	34.050	26.513	155.6	.587	2.46	37.1	40.7	2.22	29.8	.01			250
	250 ISL	8.11	8.08	34.052	26.517	155.2	.589	2.44	36.8							252
2	297	7.55	7.52	34.110	26.644	143.7	.660	1.83	27.2	49.9	2.53	33.0	.00			299
	300 ISL	7.53	7.50	34.113	26.650	143.1	.664	1.80	26.8							302
2	352	7.11	7.07	34.164	26.751	134.2	.736	1.30	19.2	58.1	2.71	35.4	.00			354
	400 ISL	6.56	6.52	34.187	26.843	125.8	.798	.96	14.0							403
2	435	6.18	6.14	34.201	26.904	120.2	.842	.77	11.1	73.3	2.97	39.6	.00			438
	500 ISL	5.80	5.76	34.242	26.984	113.1	.917	.52	7.4							504
2	519	5.72	5.68	34.254	27.004	111.4	.938	.47	6.7	82.4	3.09	41.4	.00			522
	600 ISL	5.29	5.24	34.312	27.103	102.6	1.025	.37	5.2							605
2	602	5.28	5.23	34.314	27.105	102.4	1.027	.37	5.2	92.5	3.16	42.9	.00			606

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 45.0 N	121 19.3 W	02/21/84	1153 GMT		350	13 KT	330 05 08	1	1019.3 MB	13.6 C	11.9 C	5/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.68	14.68	33.289	24.723	321.1	.000	5.93	102.5							0
1	1	14.68	14.68	33.289	24.723	321.2	.003	5.93	102.5	3.0	.39	.1	.00	.16	.11	1
	10 ISL	14.69	14.69	33.288	24.720	321.8	.032	5.95	102.8							10
1	12	14.69	14.69	33.286	24.719	321.9	.038	5.95	102.9	2.7	.39	.1	.00	.16	.11	12
	20 ISL	14.69	14.69	33.289	24.721	321.9	.064	5.96	103.1							20
1	27	14.69	14.69	33.292	24.723	321.9	.087	5.97	103.2	2.6	.38	.1	.00	.18	.11	27
	30 ISL	14.66	14.66	33.292	24.730	321.3	.097	5.97	103.2							30
1	42	14.53	14.52	33.299	24.763	318.5	.134	5.99	103.2	2.8	.39	.1	.00	.22	.11	42
	50 ISL	14.49	14.48	33.312	24.783	317.0	.160	5.99	103.1							50
1	58	14.47	14.46	33.322	24.794	316.0	.185	5.99	103.1	2.6	.39	.1	.00	.22	.10	58
1	68	14.46	14.45	33.323	24.797	316.1	.216	5.98	102.9	2.8	.39	.1	.00	.21	.10	68
	75 ISL	14.45	14.44	33.320	24.798	316.0	.239	5.97	102.8							76
1	78	14.42	14.41	33.319	24.804	315.7	.248	5.96	102.5	3.5	.39	.1	.01	.25	.12	78
1	94	13.71	13.70	33.316	24.949	302.2	.297	5.67	96.1	4.0	.53	1.7	.12	.19	.20	94
	100 ISL	13.20	13.19	33.321	25.055	292.3	.316	5.48	91.9							101
1	109	12.58	12.56	33.335	25.190	279.5	.340	5.24	86.7	6.7	.76	5.3	.01	.10	.13	109
1	123	12.20	12.18	33.376	25.294	270.0	.381	5.03	82.6	7.6	.81	6.6	.01	.07	.10	124
	125 ISL	12.12	12.10	33.383	25.314	268.0	.388	5.00	81.9							126
1	149	10.75	10.73	33.534	25.682	233.4	.447	4.29	68.4	14.9	1.31	15.0	.01	.02	.05	150
	150 ISL	10.72	10.70	33.540	25.691	232.5	.448	4.26	67.9							151
1	170	10.04	10.02	33.704	25.937	209.4	.493	3.56	55.9	21.9	1.68	20.7	.01	.00	.02	171
1	190	9.55	9.53	33.818	26.107	193.5	.533	3.19	49.6	26.2	1.86	23.7	.00			191
	200 ISL	9.31	9.29	33.862	26.182	186.6	.552	3.10	47.9							202
1	211	9.05	9.03	33.903	26.255	179.8	.572	3.04	46.8	30.1	1.96	25.8	.00			212
1	242	8.47	8.44	33.987	26.412	165.2	.625	3.02	45.9	34.2	2.04	27.1	.00			243
	250 ISL	8.35	8.32	34.001	26.442	162.5	.638	2.98	45.1							252
1	282	7.94	7.91	34.038	26.532	154.3	.690	2.73	41.0	40.4	2.18	29.3	.00			284
	300 ISL	7.74	7.71	34.050	26.570	150.9	.717	2.57	38.4							302
1	345	7.25	7.21	34.068	26.656	143.2	.783	2.10	31.0	50.1	2.46	33.0	.00			347
	400 ISL	6.53	6.50	34.095	26.774	132.3	.858	1.45	21.0							403
1	422	6.27	6.23	34.109	26.820	128.0	.888	1.20	17.3	65.1	2.82	38.5	.00			425
	500 ISL	5.71	5.67	34.174	26.942	117.0	.983	.69	9.9							504
1	501	5.70	5.66	34.174	26.942	116.9	.984	.69	9.8	77.3	3.01	41.0	.00			504
1	579	5.49	5.43	34.272	27.047	107.8	1.072	.44	6.2	85.5	3.15	42.3	.00			583

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
31 25.2 N	121 59.8 W	02/21/84	0630 GMT		310 10 KT	320 05 OA	1	1021.2 MB	14.7 C	13.1 C	7/8 SC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0		15.25	15.25	33.309	24.614	331.5	.000	5.88	102.8	2.9	.36	.2	.00	.07	.05	0
1	10		15.25	15.25	33.306	24.612	332.0	.033	5.89	103.0	3.1	.39	.2	.00	.08	.03	10
	20	ISL	15.16	15.16	33.298	24.627	330.9	.066	5.93	103.5							20
1	26		15.10	15.10	33.294	24.636	332.2	.086	5.95	103.7	2.8	.36	.2	.00	.09	.05	26
	30	ISL	15.12	15.12	33.294	24.632	330.4	.099	5.94	103.6							30
1	42		15.13	15.12	33.294	24.631	331.1	.139	5.90	102.9	2.8	.36	.2	.00	.10	.05	42
	50	ISL	15.12	15.12	33.294	24.633	331.2	.166	5.89	102.8							50
1	57		15.12	15.11	33.294	24.634	331.4	.188	5.89	102.7	2.7	.37	.2	.00	.17	.10	57
1	67		15.10	15.09	33.293	24.638	331.3	.221	5.88	102.5	2.9	.36	.2	.00	.10	.06	67
	75	ISL	15.09	15.08	33.293	24.639	331.4	.248	5.89	102.7							76
1	78		15.09	15.08	33.292	24.639	331.5	.257	5.90	102.8	3.0	.37	.2	.00	.11	.08	78
1	93		15.06	15.05	33.287	24.642	331.7	.307	5.90	102.7	2.9	.37	.2	.00	.14	.08	93
	100	ISL	14.71	14.70	33.303	24.730	323.4	.331	5.82	100.7							101
1	109		14.19	14.18	33.340	24.869	310.4	.558	5.70	97.5	3.8	.46	.6	.06	.27	.24	109
1	123		13.42	13.40	33.454	25.115	287.2	.803	5.50	92.7	4.2	.55	2.7	.04	.12	.17	124
	125	ISL	13.33	13.32	33.459	25.137	285.2	.807	5.47	92.1							126
1	149		11.84	11.82	33.502	25.460	254.7	.473	4.86	79.3	9.3	.97	9.1	.01	.05	.06	150
	150	ISL	11.79	11.77	33.505	25.471	253.8	.474	4.83	78.7							151
1	170		10.58	10.56	33.606	25.767	225.7	.523	4.07	64.6	16.8	1.43	16.8	.01	.01	.04	171
1	190		9.83	9.81	33.754	26.011	202.8	.566	4.06	63.5	21.1	1.53	18.9	.01			191
	200	ISL	9.52	9.50	33.805	26.102	194.2	.585	3.84	59.7							202
1	211		9.23	9.20	33.850	26.186	186.3	.606	3.59	55.4	26.4	1.79	22.7	.01			212
1	242		8.64	8.62	33.954	26.359	170.3	.661	3.61	55.0	29.7	1.86	24.0	.01			243
	250	ISL	8.49	8.46	33.971	26.397	166.8	.675	3.52	53.5							252
1	283		7.90	7.87	34.019	26.523	155.1	.729	3.03	45.4	39.3	2.13	27.9	.00			285
	300	ISL	7.68	7.65	34.033	26.566	151.2	.754	2.80	41.7							302
1	344		7.21	7.17	34.057	26.652	143.4	.819	2.20	32.5	49.9	2.46	32.7	.01			346
	400	ISL	6.66	6.62	34.092	26.755	134.2	.897	1.54	22.4							403
1	422		6.45	6.41	34.107	26.794	130.6	.926	1.31	19.0	62.9	2.83	37.3	.01			425
1	500		5.71	5.67	34.166	26.935	117.6	1.022	.74	10.5	76.5	3.09	40.9	.01			503
1	577		5.45	5.40	34.252	27.035	108.9	1.110	.41	5.8	85.0	3.16	42.4	.00			581

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 90 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
31 06.6 N	122 39.2 W	02/21/84	0144 GMT		010 09 KT	330 06 08	1	1019.5 MB	16.7 C	13.6 C	5/8 CU

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0		16.69	16.69	33.701	24.591	333.7	.000	5.70	102.8	2.6	.29	.2	.00	.05	.03	0
1	10		16.68	16.68	33.702	24.594	333.8	.033	5.73	103.3	2.6	.29	.2	.00	.06	.05	10
	20	ISL	16.68	16.68	33.705	24.597	333.8	.067	5.74	103.5							20
1	26		16.68	16.67	33.705	24.598	333.9	.086	5.75	103.7	2.5	.28	.2	.00	.07	.04	26
	30	ISL	16.69	16.68	33.707	24.598	334.1	.100	5.74	103.6							30
1	41		16.71	16.71	33.711	24.595	334.7	.136	5.72	103.2	2.5	.28	.2	.00	.07	.04	41
	50	ISL	16.71	16.70	33.710	24.595	335.1	.167	5.72	103.2							50
1	57		16.71	16.70	33.709	24.595	335.3	.190	5.72	103.2	2.5	.28	.2	.00	.06	.05	57
1	67		16.71	16.70	33.712	24.595	335.3	.223	5.72	103.2	2.5	.28	.2	.00	.07	.06	67
	75	ISL	16.71	16.70	33.713	24.599	335.5	.251	5.74	103.5							76
1	77		16.71	16.70	33.713	24.599	335.5	.257	5.74	103.6	2.5	.28	.2	.00	.08	.05	77
1	93		16.71	16.69	33.716	24.603	335.7	.310	5.72	103.2	2.4	.28	.2	.00	.09	.06	93
	100	ISL	16.42	16.40	33.706	24.661	330.3	.335	5.71	102.5							101
1	108		15.99	15.97	33.700	24.755	321.6	.359	5.71	101.5	2.9	.32	.3	.03	.15	.16	108
1	123		14.75	14.74	33.738	25.057	293.1	.408	5.55	96.3	3.5	.38	1.1	.06	.11	.21	124
	125	ISL	14.67	14.65	33.735	25.074	291.5	.413	5.54	95.9							126
1	149		13.40	13.38	33.660	25.280	272.2	.478	5.31	89.6	5.4	.56	4.1	.02	.07	.08	149
	150	ISL	13.29	13.27	33.657	25.299	270.5	.483	5.29	89.1							151
1	169		12.06	12.04	33.641	25.526	249.0	.533	5.00	82.0	8.7	.84	8.4	.00	.04	.05	170
1	190		10.85	10.83	33.663	25.766	226.4	.583	4.34	69.4	15.3	1.28	15.2	.00			191
	200	ISL	10.37	10.35	33.696	25.875	216.0	.604	4.23	66.8							202
1	210		9.95	9.93	33.738	25.979	206.2	.626	4.14	64.9	20.0	1.49	18.6	.00			211
1	241		9.13	9.10	33.887	26.231	182.7	.685	3.47	53.5	27.9	1.81	23.6	.00			242
	250	ISL	8.96	8.93	33.914	26.279	178.2	.702	3.48	53.4							252
1	283		8.47	8.44	33.978	26.406	166.5	.758	3.48	52.8	32.6	1.91	25.3	.00			284
	300	ISL	8.21	8.18	34.003	26.464	161.2	.787	3.28	49.5							302
1	344		7.60	7.57	34.046	26.588	149.8	.855	2.57	38.3	44.4	2.29	30.6	.00			346
	400	ISL	6.83	6.79	34.089	26.730	136.7	.935	1.76	25.7							403
1	422		6.56	6.52	34.105	26.779	132.1	.964	1.47	21.4	61.7	2.73	36.9	.00			424
	500	ISL	5.84	5.80	34.190	26.939	117.5	1.062	.67	9.5							504
1	501		5.83	5.79	34.190	26.939	117.4	1.063	.66	9.4	76.7	3.05	40.7	.00			504
1	578		5.45	5.40	34.249	27.033	109.1	1.151	.49	6.9	85.5	3.15	42.5	.00			582

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 29

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 52.8 N	117 27.8 W	03/08/84	1134 GMT	650 M	310	06 KT			1021.3 MB	15.5 C	14.0 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.96	15.96	33.472	24.582	334.1	.000	5.85	103.9							0
1	1	15.96	15.96	33.472	24.582	334.6	.003	5.85	103.9	6.3	.30	.3	.00	.11	.04	1
	10 ISL	15.93	15.92	33.470	24.589	334.6	.033	5.92	105.0							10
1	11	15.92	15.92	33.470	24.591	334.1	.037	5.92	105.0	7.0	.31	.3	.00	.11	.02	11
	20 ISL	15.82	15.81	33.466	24.611	332.5	.067	5.92	104.8							20
1	21	15.80	15.79	33.465	24.614	332.2	.070	5.90	104.4	6.0	.30	.2	.00	.15	.03	21
	30 ISL	15.47	15.47	33.436	24.666	327.6	.100	5.90	103.7							30
1	31	15.42	15.41	33.434	24.675	326.7	.103	5.88	103.2	6.7	.31	.1	.00	.20	.04	31
1	41	14.34	14.34	33.441	24.912	304.3	.134	6.02	103.4	6.9	.39	.3	.02	.86	.19	41
	50 ISL	12.99	12.99	33.425	25.177	279.3	.161	5.11	85.5							50
1	51	12.89	12.88	33.425	25.197	277.4	.163	5.03	83.9	11.7	.76	5.9	.18	.94	.54	51
1	61	12.40	12.39	33.456	25.316	266.3	.190	4.81	79.4	14.2	.91	8.8	.22	.70	.40	61
1	73	11.85	11.84	33.572	25.511	248.0	.221	4.23	69.0	17.9	1.13	12.8	.05	.34	.22	73
	75 ISL	11.74	11.73	33.591	25.547	244.6	.227	4.13	67.3							76
1	87	11.27	11.26	33.669	25.692	231.0	.254	3.77	60.8	22.0	1.36	16.7	.02	.14	.14	87
	100 ISL	11.06	11.05	33.693	25.750	225.9	.285	3.76	60.4							101
1	102	11.05	11.04	33.693	25.752	225.7	.288	3.67	58.9	23.1	1.44	17.8	.02	.10	.13	102
1	121	10.83	10.82	33.722	25.813	220.3	.332	3.57	57.1	23.8	1.50	18.8	.02	.07	.11	122
	125 ISL	10.72	10.71	33.730	25.839	217.9	.340	3.56	56.5							126
1	146	10.01	9.99	33.798	26.015	201.5	.385	3.35	52.6	27.6	1.67	22.1	.01	.01	.05	147
	150 ISL	9.92	9.90	33.813	26.043	199.9	.392	3.31	51.8							151
1	176	9.39	9.37	33.920	26.213	183.1	.442	2.97	46.0	32.6	1.87	25.2	.00			177
	200 ISL	9.07	9.05	34.007	26.333	172.2	.485	2.66	41.0							202
1	205	9.02	9.00	34.021	26.352	170.4	.493	2.61	40.1	37.2	2.02	27.2	.00			206
1	237	8.65	8.63	34.054	26.436	162.9	.546	2.48	37.8	40.2	2.12	28.6	.00			238
	250 ISL	8.47	8.44	34.069	26.476	159.2	.568	2.37	36.0							252
1	276	8.12	8.09	34.095	26.550	152.6	.609	2.14	32.3	45.8	2.28	31.0	.00			278
	300 ISL	7.94	7.91	34.107	26.586	149.6	.644	2.02	30.3							302
1	336	7.69	7.65	34.117	26.631	145.7	.697	1.83	27.3	51.8	2.43	33.1	.00			338
	400 ISL	6.83	6.79	34.154	26.781	131.9	.786	1.21	17.7							403
1	410	6.69	6.65	34.161	26.806	129.6	.800	1.11	16.2	66.7	2.77	37.7	.00			413
1	485	6.23	6.18	34.213	26.908	120.6	.893	.71	10.2	75.3	2.98	40.2	.00			488
	500 ISL	6.14	6.10	34.224	26.928	118.8	.911	.65	9.3							504
1	558	5.84	5.80	34.271	27.002	112.2	.978	.47	6.7	83.6	3.10	42.0	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 50.8 N	117 32.0 W	03/08/84	0006 GMT	859 M	300	09 KT	260 01 10	1	1019.3 MB	19.0 C	16.5 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.23	16.23	33.483	24.529	341.3	.000	5.84	104.3							0
1	1	16.23	16.23	33.483	24.529	339.6	.003	5.84	104.3	2.7	.30	.1	.00	.17	.03	1
	10 ISL	15.69	15.69	33.482	24.649	328.5	.033	6.21	109.7							10
1	11	15.65	15.65	33.481	24.658	327.6	.037	6.23	109.9	1.6	.29	.1	.00	.29	.02	11
	20 ISL	15.43	15.43	33.477	24.705	323.5	.066	6.23	109.9							20
1	21	15.42	15.41	33.476	24.708	323.3	.069	6.25	109.8	1.4	.28	.0	.00	.35	.04	21
	30 ISL	15.20	15.19	33.470	24.752	319.3	.098	6.29	109.8							30
1	31	15.16	15.16	33.469	24.758	318.8	.101	6.29	109.9	1.2	.27	.0	.00	.62	.06	31
1	39	14.64	14.63	33.455	24.862	309.2	.126	6.26	108.2	1.6	.35	.0	.00	.86	.18	39
1	49	13.29	13.28	33.429	25.121	284.7	.156	5.43	91.3	4.5	.59	2.8	.19	1.12	.49	49
	50 ISL	13.15	13.14	33.430	25.149	282.0	.159	5.31	89.1							50
1	60	12.32	12.31	33.460	25.334	264.5	.186	4.58	75.5	9.5	1.02	9.2	.31	.82	.37	60
1	69	12.01	12.00	33.491	25.417	256.8	.209	4.52	74.0	10.6	1.03	10.8	.25	.56	.24	69
	75 ISL	11.64	11.63	33.512	25.502	248.8	.225	4.44	72.2							76
1	84	11.17	11.16	33.548	25.617	238.1	.246	4.30	69.2	13.2	1.16	13.9	.04	.14	.14	84
1	98	10.96	10.95	33.635	25.722	228.4	.278	3.99	63.9	16.0	1.33	16.4	.01	.09	.11	98
	100 ISL	10.91	10.90	33.650	25.743	226.5	.284	3.93	62.9							101
1	116	10.52	10.51	33.738	25.880	213.8	.320	3.53	56.0	20.0	1.53	19.7	.01	.03	.08	117
	125 ISL	10.37	10.36	33.783	25.941	208.1	.339	3.35	53.1							126
1	141	10.10	10.08	33.854	26.044	198.7	.371	3.11	49.0	24.9	1.73	22.6	.01	.02	.08	142
	150 ISL	9.90	9.88	33.869	26.090	194.4	.388	3.10	48.5							151
1	171	9.41	9.40	33.900	26.194	184.9	.428	3.09	47.9	27.8	1.82	24.6	.01			172
	200 ISL	8.99	8.97	34.015	26.352	170.3	.480	2.68	41.3							202
1	201	8.98	8.96	34.019	26.357	169.9	.481	2.67	41.0	33.0	1.99	27.1	.01			202
1	228	8.59	8.57	34.058	26.448	161.5	.526	2.47	37.6	37.1	2.12	28.8	.01			229
	250 ISL	8.33	8.30	34.081	26.507	156.3	.561	2.29	34.7							252
1	267	8.14	8.11	34.093	26.545	152.9	.588	2.16	32.6	42.2	2.24	30.6	.00			269
	300 ISL	7.77	7.74	34.102	26.607	147.4	.637	1.98	29.6							302
1	325	7.48	7.45	34.106	26.653	143.3	.673	1.83	27.2	49.9	2.45	33.3	.00			327
1	397	6.69	6.65	34.163	26.807	129.2	.772	1.07	15.6	63.3	2.76	37.4	.01			400
	400 ISL	6.67	6.63	34.165	26.811	128.9	.775	1.05	15.4							403
1	472	6.24	6.20	34.210	26.903	120.8	.865	.72	10.4	71.6	2.93	39.8	.00			475
	500 ISL	6.11	6.06	34.229	26.935	118.1	.899	.62	9.0							504
1	546	5.93	5.88	34.257	26.980	114.3	.952	.51	7.3	78.1	3.04	41.2	.00			550

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 50.8 N	117 32.0 W	03/08/84	0601 GMT	859 M	330 07 KT	290 01 11		1020.0 MB	16.0 C	14.7 C	

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	16.02	16.02	33.480	24.576	334.9	.000	5.88	104.5							0
1	1		16.02	16.02	33.480	24.576	335.2	.003	5.88	104.5	0.0	.30	.2	.00	.18	.03	1
	10	ISL	16.02	16.01	33.480	24.576	335.2	.034	6.01	106.7							10
1	11		15.99	15.99	33.479	24.582	334.9	.037	6.02	106.9	0.0	.30	.2	.00	.17	.03	11
	20	ISL	15.49	15.48	33.484	24.698	324.2	.067	6.18	108.6							20
1	21		15.43	15.43	33.484	24.710	323.0	.069	6.19	108.8	0.0	.30	.0	.00	.21	.03	21
	30	ISL	15.24	15.24	33.480	24.749	319.6	.099	6.19	108.8							30
1	31		15.21	15.20	33.477	24.754	319.1	.101	6.23	109.0	0.0	.30	.0	.00	.36	.05	31
1	41		13.90	13.90	33.394	24.968	299.0	.132	5.70	97.0	0.0	.47	.8	.03	1.15	.27	41
	50	ISL	13.23	13.23	33.407	25.114	285.3	.159	5.24	88.0							50
1	52		13.12	13.11	33.415	25.144	282.5	.164	5.16	86.4	1.3	.70	4.6	.19	1.07	.39	52
1	61		12.19	12.19	33.459	25.358	262.3	.188	4.82	79.2	3.8	.93	9.2	.16	.63	.30	61
1	71		11.91	11.90	33.484	25.430	255.6	.214	4.58	74.8	6.2	1.00	10.4	.10	.42	.32	71
	75	ISL	11.74	11.73	33.506	25.480	251.0	.225	4.54	74.0							76
1	86		11.28	11.27				.253	4.41	71.1	8.3	1.11	12.9	.02	.13	.12	87
1	100		10.84	10.83	33.663	25.765	224.4	.286	3.84	61.4	13.0	1.40	17.2	.01	.07	.06	101
1	121		10.33	10.31	33.820	25.977	204.6	.330	3.25	51.4	22.3	1.66	21.3	.01	.02	.06	122
	125	ISL	10.26	10.24	33.830	25.997	202.8	.338	3.18	50.3							126
1	144		9.91	9.90	33.854	26.075	195.7	.376	3.17	49.7	25.5	1.75	22.8	.02	.02	.07	145
	150	ISL	9.80	9.78	33.866	26.104	193.1	.387	3.14	49.0							151
1	174		9.35	9.33	33.924	26.223	182.1	.432	2.96	45.8	27.2	1.88	24.9	.00			175
	200	ISL	8.99	8.96	33.987	26.331	172.3	.478	2.75	42.3							202
1	204		8.94	8.92	33.996	26.345	171.0	.485	2.72	41.8	33.0	2.00	26.7	.00			205
1	234		8.64	8.61	34.058	26.441	162.4	.535	2.43	37.1	38.6	2.13	28.2	.00			235
	250	ISL	8.46	8.44	34.071	26.479	159.1	.561	2.38	36.1							252
1	272		8.22	8.19	34.079	26.523	155.1	.596	2.33	35.2	42.2	2.22	29.6	.00			274
	300	ISL	7.89	7.86	34.091	26.581	150.0	.638	2.14	32.2							302
1	332		7.50	7.47	34.104	26.648	143.9	.685	1.86	27.6	51.5	2.42	32.9	.00			334
	400	ISL	6.75	6.72	34.159	26.795	130.5	.779	1.15	16.8							403
1	406		6.69	6.66	34.164	26.807	129.4	.787	1.09	15.9	64.4	2.77	36.9	.00			409
1	479		6.28	6.24	34.205	26.895	121.8	.848	.77	11.1	76.3	2.92	39.1	.00			482
	500	ISL	6.15	6.10	34.222	26.925	119.1	.903	.68	9.8							504
1	553		5.79	5.74	34.275	27.012	111.2	.965	.45	6.4	86.5	3.08	41.0	.00			557

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 50.8 N	117 32.0 W	03/08/84	1321 GMT	870 M	340 04 KT			1021.3 MB	15.1 C	13.2 C	

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0		15.89	15.89	33.481	24.606	332.3	.000	5.87	104.1	3.9	.31	.2	.00	.15	.03	0
1	10		15.87	15.87	33.479	24.608	332.4	.033	6.10	108.1	3.8	.30	.1	.00	.14	.04	10
	20	ISL	15.55	15.55	33.481	24.682	325.7	.066	6.10	107.4							20
1	21		15.51	15.51	33.481	24.690	324.9	.069	6.10	107.3	3.1	.29	.1	.00	.20	.03	21
	30	ISL	15.24	15.24	33.470	24.742	320.2	.098	6.10	107.3							30
1	31		15.20	15.19	33.468	24.750	319.6	.101	6.14	107.4	2.0	.31	.1	.00	.25	.08	31
1	40		14.32	14.32	33.423	24.903	305.2	.129	5.73	98.4	3.6	.42	.9	.03	.95	.28	40
	50	ISL	13.78	13.77	33.422	25.016	295.7	.160	5.50	93.4							50
1	51		13.73	13.72	33.419	25.016	294.7	.162	5.48	93.0	5.0	.54	2.5	.08	.95	.37	51
1	61		12.37	12.37	33.451	25.317	266.1	.190	4.86	80.2	8.7	.87	8.4	.16	.62	.39	61
1	73		11.73	11.72	33.499	25.477	251.2	.221	4.60	74.9	10.3	.99	11.0	.03	.23	.16	73
	75	ISL	11.60	11.59	33.511	25.510	248.2	.227	4.55	73.8							76
1	86		11.09	11.08	33.571	25.649	235.1	.252	4.28	68.7	14.7	1.19	14.4	.02	.09	.07	86
	100	ISL	10.74	10.73	33.665	25.784	222.5	.285	3.83	61.0							101
1	102		10.72	10.70	33.675	25.797	221.3	.289	3.78	60.2	17.9	1.43	18.1	.01	.05	.07	102
1	121		10.32	10.31	33.807	25.969	205.4	.331	3.28	51.9	23.1	1.66	21.6	.01	.01	.06	122
	125	ISL	10.25	10.24	33.823	25.993	203.2	.338	3.23	51.0							126
1	146		9.86	9.84	33.884	26.107	192.7	.380	3.04	47.6	26.3	1.80	23.6	.01	.01	.05	147
	150	ISL	9.79	9.77	33.888	26.123	191.3	.388	3.03	47.4							151
1	176		9.31	9.29	33.919	26.226	181.9	.436	2.96	45.8	29.3	1.87	25.2	.01			177
	200	ISL	8.99	8.96	34.006	26.346	170.9	.478	2.69	41.4							202
1	205		8.92	8.90	34.024	26.370	168.7	.487	2.63	40.4	34.0	2.04	27.6	.01			206
1	236		8.41	8.39	34.058	26.476	159.0	.537	2.41	36.6	39.1	2.16	29.3	.01			237
	250	ISL	8.21	8.18	34.071	26.517	155.3	.560	2.31	34.8							252
1	275		7.89	7.86	34.091	26.581	149.5	.598	2.11	31.6	44.0	2.33	31.6	.01			277
	300	ISL	7.60	7.57	34.107	26.636	144.6	.635	1.89	28.1							302
1	334		7.23	7.20	34.126	26.703	138.5	.683	1.57	23.2	54.2	2.57	34.8	.00			336
	400	ISL	6.63	6.59	34.168	26.818	128.2	.771	1.05	15.3							403
1	409		6.56	6.52	34.173	26.832	127.0	.783	.99	14.4	65.0	2.82	38.3	.00			412
1	482		6.22	6.17	34.212	26.908	120.5	.842	.70	10.1	71.4	2.98	40.2	.00			485
	500	ISL	6.13	6.09	34.223	26.928	119.8	.894	.64	9.2							504
1	556		5.88	5.83	34.264	26.993	113.2	.959	.49	7.0	79.4	3.09	41.5	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 50.8 N	117 32.0 W	03/08/84	1616 GMT	870 M	040	05 KT	310 02 12	1	1022.0 MB	16.2 C	14.5 C	4/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.84	15.84	33.486	24.621	330.9	.000	5.91	104.7	4.4	.25	.1	.00	.16	.04	0
1	10	15.66	15.66	33.474	24.652	328.2	.033	5.93	104.7	4.2	.28	.1	.00	.17	.05	10
1	20	15.29	15.28	33.450	24.716	322.4	.065	5.99	104.9	4.9	.31	.0	.00	.22	.07	20
1	30	14.70	14.70	33.440	24.836	311.3	.097	5.85	101.2	5.9	.37	.4	.02	.81	.21	30
1	40	14.50	14.49	33.437	24.878	307.6	.128	5.80	100.0	8.6	.42	.7	.04	1.08	.28	40
	50 ISL	13.89	13.88	33.412	24.985	297.7	.158	5.53	94.1							50
1	52	13.71	13.70	33.410	25.021	294.3	.164	5.45	92.4	9.7	.54	2.5	.08	.92	.31	52
1	61	12.20	12.19	33.457	25.355	262.6	.189	4.82	79.2	14.2	.90	8.9	.11	.50	.30	61
1	71	11.63	11.62	33.523	25.514	247.6	.214	4.52	73.6	16.3	1.04	11.7	.03	.19	.15	71
	75 ISL	11.43	11.42	33.542	25.565	242.9	.225	4.43	71.7							76
1	86	11.02	11.01	33.589	25.675	232.6	.250	4.21	67.5	19.7	1.22	15.1	.02	.08	.09	86
	100 ISL	10.60	10.59	33.704	25.840	217.2	.282	3.68	58.6							101
1	102	10.56	10.55	33.716	25.856	215.7	.285	3.63	57.7	24.5	1.50	19.1	.01	.03	.07	102
1	120	10.26	10.25				.325	3.32	52.4	27.8	1.68	21.6	.01	.02	.06	121
	125 ISL	10.18	10.16	33.805	25.991	203.3	.335	3.26	51.5							126
1	146	9.81	9.79	33.883	26.115	192.0	.377	3.08	48.2					.01	.06	147
	150 ISL	9.72	9.71	33.894	26.138	189.9	.384	3.05	47.6							151
1	175	9.19	9.17	33.951	26.269	177.7	.430	2.86	44.1	35.0	1.93	25.7	.02			176
	200 ISL	9.00	8.98	33.996	26.336	171.8	.473	2.77	42.6							202
1	205	8.97	8.95	34.004	26.347	170.9	.482	2.75	42.2	37.5	1.99	26.9	.01			206
1	235	8.52	8.50	34.057	26.458	160.7	.531	2.45	37.3	42.3	2.13	28.8	.00			236
	250 ISL	8.36	8.33	34.077	26.500	156.9	.555	2.32	35.1							252
1	274	8.11	8.08	34.102	26.557	151.9	.593	2.12	32.0	45.2	2.27	30.9	.00			276
	300 ISL	7.76	7.73	34.114	26.618	146.4	.631	1.91	28.6							302
1	334	7.30	7.27	34.123	26.690	139.8	.680	1.64	24.3	54.3	2.52	34.2	.00			336
	400 ISL	6.66	6.63	34.166	26.812	128.8	.769	1.08	15.8							403
1	408	6.60	6.56	34.171	26.825	127.6	.779	1.02	14.9	65.5	2.79	37.9	.00			411
1	483	6.17	6.13	34.219	26.919	119.5	.871	.67	9.7	72.4	2.96	39.9	.00			486
	500 ISL	6.09	6.04	34.231	26.939	117.7	.892	.61	8.8							504
1	558	5.84	5.79	34.275	27.006	111.9	.958	.46	6.6	78.5	3.08	41.3	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 40.7 N	117 52.4 W	03/08/84	1955 GMT	602 M	310	09 KT	290 02 14	1	1022.7 MB	17.1 C	14.3 C	3/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.19	16.19	33.478	24.534	340.7	.000	5.84	104.2							0
1	2	16.19	16.19	33.478	24.534	339.2	.007	5.84	104.2		.30	.0	.00	.13	.01	2
1	10	15.88	15.87	33.469	24.600	333.2	.034	6.05	107.2		.29	.0	.00	.15	.02	10
1	20	15.35	15.35	33.419	24.678	326.1	.066	6.02	105.6		.32	.0	.00	.16	.02	20
	30 ISL	15.25	15.25	33.408	24.691	326.0	.099	5.92	103.6							30
1	31	15.24	15.23	33.407	24.694	324.9	.102	5.91	103.4	7.1	.32	.0	.00	.17	.05	31
1	40	14.45	14.45	33.364	24.830	312.1	.131	5.90	101.5	6.7	.36	.0	.00	.36	.18	40
1	50	13.33	13.33	33.378	25.072	289.3	.161	5.41	91.0	8.8	.57	1.7	.10	.97	.25	50
1	61	12.82	12.81	33.455	25.234	274.2	.191	5.00	83.2	10.5	.81	5.4	.25	1.42	.72	61
1	72	12.18	12.17	33.480	25.377	260.8	.221	4.59	75.4	12.9	.99	9.0	.21	.60	.51	72
	75 ISL	12.04	12.03	33.492	25.413	257.4	.229	4.53	74.1							76
1	86	11.60	11.59	33.537	25.529	246.5	.256	4.37	70.9	15.3	1.09	11.6	.06	.25	.20	86
	100 ISL	10.83	10.82	33.612	25.728	227.9	.290	4.06	64.9							101
1	101	10.80	10.79	33.615	25.735	227.2	.291	4.05	64.6	19.2	1.31	15.5	.03	.10	.13	101
1	119	10.26	10.24	33.743	25.930	209.1	.333	3.57	56.4	23.9	1.56	19.9	.00	.02	.05	120
	125 ISL	10.12	10.10	33.786	25.987	203.6	.344	3.41	53.7							126
1	144	9.70	9.68	33.923	26.165	187.1	.382	2.94	45.9	30.7	1.83	24.3	.00	.01	.05	145
	150 ISL	9.60	9.59	33.948	26.200	183.9	.392	2.86	44.5							151
1	174	9.26	9.24	34.020	26.313	173.6	.435	2.62	40.5	35.5	2.00	26.9	.00			175
	200 ISL	8.86	8.84	34.083	26.426	163.2	.479	2.36	36.1							202
1	205	8.79	8.77	34.093	26.444	161.6	.487	2.31	35.4	40.2	2.13	29.1	.01			206
1	235	8.53	8.50	34.130	26.515	155.4	.534	2.05	31.2	43.3	2.25	30.6	.00			236
	250 ISL	8.34	8.31	34.157	26.549	152.3	.558	1.97	29.8							252
1	272	8.03	8.00	34.141	26.599	147.9	.591	1.85	27.8	48.5	2.38	32.3	.00			274
	300 ISL	7.42	7.40	34.151	26.666	141.7	.631	1.61	24.0							302
1	333	7.15	7.12	34.165	26.745	134.5	.677	1.30	19.2	59.9	2.64	36.5	.01			335
	400 ISL	6.40	6.37	34.206	26.873	122.3	.763	.86	12.4							403
1	405	6.36	6.32	34.209	26.887	121.5	.770	.83	12.0	72.7	2.91	40.3	.00			408
1	481	6.04	6.00	34.241	26.953	116.1	.859	.60	8.6	79.2	3.02	41.7	.00			484

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 30.9 N	118 12.8 W	03/09/84	0105 GMT	1660 M	310	15 KT	290 03 07	1	1021.7 MB	15.6 C	14.5 C	6/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.62	15.62	33.436	24.631	329.9	.000	5.87	103.5	7.0	.31	.0	.00	.11	.02	0
	10 ISL	15.62	15.62	33.436	24.632	329.9	.033	6.23	109.9							10
1	11	15.60	15.60	33.435	24.634	330.0	.036	6.24	110.0	6.0	.31	.0	.00	.11	.01	11
	20 ISL	15.45	15.45	33.430	24.664	327.4	.066	6.06	106.5							20
1	21	15.44	15.43	33.429	24.667	327.2	.069	6.03	105.9	5.4	.30	.0	.00	.13	.02	21
	30 ISL	15.39	15.39	33.426	24.674	326.7	.099	5.88	103.2							30
1	31	15.39	15.39	33.426	24.675	326.7	.101	5.87	103.0	4.7	.30	.0	.00	.17	.03	31
1	41	15.24	15.23	33.417	24.702	324.4	.134	5.87	102.7	4.6	.30	.0	.00	.27	.06	41
1	50	14.86	14.85	33.397	24.770	318.2	.163	5.89	102.2	4.7	.31	.0	.00	.38	.12	50
1	61	13.93	13.92	33.373	24.968	301.5	.197	5.73	97.6	5.7	.43	.1	.03	1.48	.37	61
1	72	13.63	13.62	33.367	25.005	296.3	.229	5.52	93.4	5.9	.51	1.3	.08	.43	.29	72
	75 ISL	13.41	13.40	33.379	25.059	291.3	.239	5.42	91.3							76
1	87	12.54	12.52	33.440	25.278	270.6	.272	5.03	83.2	9.1	.76	6.0	.03	.20	.17	87
	100 ISL	11.79	11.77	33.496	25.464	253.1	.307	4.69	76.4							101
1	102	11.71	11.69	33.503	25.484	251.2	.311	4.65	75.6	12.0	.97	10.3	.02	.10	.10	102
1	121	10.68	10.67	33.645	25.780	223.4	.358	3.97	63.2	18.9	1.33	17.0	.00	.03	.04	122
	125 ISL	10.56	10.55	33.663	25.815	220.1	.366	3.89	61.8							126
1	146	9.99	9.97	33.759	25.988	204.0	.411	3.54	55.6	23.7	1.58	21.2	.00	.01	.02	147
	150 ISL	9.88	9.86	33.779	26.023	200.8	.418	3.48	54.4							151
1	176	9.13	9.11	33.913	26.249	179.6	.468	3.06	47.2	30.7	1.84	25.8	.00			177
	200 ISL	8.60	8.58	33.996	26.399	165.8	.509	2.76	42.0							202
1	206	8.49	8.47	34.011	26.427	163.1	.519	2.69	40.9	37.3	2.04	28.8	.00			207
1	238	8.03	8.01	34.055	26.531	153.6	.569	2.39	36.0	42.2	2.18	30.9	.00			239
	250 ISL	7.90	7.87	34.066	26.559	151.1	.588	2.29	34.4							252
1	276	7.65	7.62	34.082	26.608	146.8	.627	2.09	31.2	47.9	2.33	32.6	.00			278
	300 ISL	7.42	7.39	34.097	26.652	142.9	.662	1.89	28.1							302
1	336	7.09	7.06	34.120	26.718	137.0	.712	1.58	23.3	56.4	2.56	35.8	.00			338
	400 ISL	6.56	6.53	34.174	26.832	126.8	.796	1.03	14.9							403
1	409	6.49	6.46	34.183	26.848	125.4	.808	.95	13.8	67.8	2.85	39.4	.00			412
1	484	5.99	5.95	34.254	26.970	114.4	.897	.50	7.2	78.5	3.03	42.2	.00			487
	500 ISL	5.89	5.84	34.266	26.992	112.5	.916	.41	5.8							504
1	559	5.55	5.50	34.296	27.058	106.6	.981	.38	5.4	87.1	3.12	44.0	.00			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 20.8 N	118 33.3 W	03/09/84	0742 GMT	1200 M	310	12 KT	290 03 10		1022.0 MB	15.5 C	14.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.70	15.70	33.455	24.628	330.1	.000	5.81	102.6							0
1	1	15.70	15.70	33.455	24.628	330.2	.003	5.81	102.6	5.9	.31	.1	.00	.13	.02	1
	10 ISL	15.71	15.71	33.453	24.623	331.0	.033	5.84	103.2							10
1	11	15.72	15.71	33.452	24.622	331.1	.036	5.85	103.3	5.6	.31	.0	.00	.13	.03	11
	20 ISL	15.72	15.72	33.453	24.622	331.4	.066	5.93	104.7							20
1	21	15.72	15.72	33.453	24.622	331.4	.069	5.93	104.8	4.7	.31	.0	.00	.13	.05	21
	30 ISL	15.72	15.72	33.455	24.624	331.4	.099	5.83	103.0							30
1	31	15.72	15.71	33.455	24.625	331.6	.102	5.82	102.8	4.5	.30	.0	.00	.14	.03	31
1	41	15.67	15.66	33.455	24.637	330.6	.135	5.80	102.4	4.5	.30	.0	.00	.18	.06	41
	50 ISL	15.34	15.33	33.440	24.698	325.1	.165	5.77	101.1							50
1	52	15.25	15.24	33.436	24.714	323.6	.171	5.76	100.8	4.4	.32	.1	.00	.59	.20	52
1	62	14.70	14.69	33.418	24.820	313.8	.203	5.66	97.9	4.8	.39	.5	.05	.68	.29	62
1	72	13.12	13.11	33.396	25.128	284.5	.233	5.27	88.3	6.8	.61	3.9	.07	.37	.26	72
	75 ISL	12.86	12.85	33.410	25.190	278.6	.242	5.15	85.9							76
1	87	12.25	12.24	33.474	25.358	262.9	.273	4.79	78.8	9.7	.86	8.4	.06	.18	.20	87
	100 ISL	11.28	11.26	33.522	25.578	242.2	.307	4.44	71.5							101
1	102	11.17	11.15	33.529	25.603	239.8	.311	4.40	70.8	14.1	1.13	13.3	.00	.09	.07	102
1	122	10.19	10.17	33.692	25.902	211.8	.358	3.85	60.7	20.3	1.45	19.0	.00	.02	.03	123
	125 ISL	10.10	10.09	33.706	25.927	209.4	.363	3.81	59.9							126
1	146	9.59	9.57	33.797	26.084	194.8	.406	3.59	55.9	24.7	1.63	22.1	.00	.01	.03	147
	150 ISL	9.52	9.50	33.810	26.105	192.8	.414	3.57	55.5							151
1	175	9.13	9.11	33.885	26.229	181.5	.461	3.41	52.5	28.2	1.75	24.0	.00			176
	200 ISL	8.83	8.81	33.958	26.333	172.0	.505	3.04	46.5							202
1	205	8.77	8.75	33.970	26.352	170.3	.513	2.96	45.3	33.1	1.93	26.9	.00			206
1	235	8.29	8.27	34.028	26.470	159.4	.562	2.65	40.1	38.3	2.09	29.1	.00			236
	250 ISL	8.07	8.04	34.052	26.523	154.6	.586	2.44	36.8							252
1	273	7.74	7.71	34.081	26.594	148.1	.622	2.12	31.7	46.3	2.33	32.0	.00			275
	300 ISL	7.42	7.39	34.101	26.657	142.5	.660	1.83	27.2							302
1	333	7.06	7.03	34.119	26.721	136.7	.706	1.52	22.4	56.1	2.58	35.6	.00			335
	400 ISL	6.46	6.43	34.183	26.852	124.8	.794	.90	13.0							403
1	407	6.41	6.37	34.189	26.864	123.7	.803	.84	12.2	69.1	2.88	39.3	.01			410
1	482	6.14	6.10	34.234	26.935	117.9	.893	.58	8.4	75.2	3.01	41.0	.00			485
	500 ISL	6.03	5.99	34.251	26.962	115.5	.914	.52	7.4							504
1	558	5.60	5.55	34.321	27.072	105.4	.978	.31	4.4	87.1	3.17	43.0	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 10.8 N	118 53.6 W	03/09/84	1151 GMT	1390 M	320 12 KT			1021.7 MB	14.6 C	12.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.49	15.48	33.441	24.665	327.3	.000	5.84	102.7							0
1	1	15.49	15.48	33.441	24.665	326.7	.003	5.84	102.7	4.1	.28	.1	.00	.11	.01	1
1	10	15.49	15.49	33.440	24.663	327.2	.033	6.01	105.7	4.0	.28	.1	.00	.11	.02	10
	20 ISL	15.38	15.38	33.429	24.678	326.0	.065	6.00	105.2							20
1	25	15.30	15.30	33.422	24.691	325.0	.081	5.97	104.6	3.9	.29	.1	.00	.11	.02	25
	30 ISL	15.22	15.21	33.416	24.705	323.7	.098	5.95	104.1							30
1	40	15.02	15.02	33.405	24.740	320.7	.130	5.92	103.1	3.6	.30	.1	.00	.17	.01	40
	50 ISL	14.81	14.80	33.396	24.779	317.4	.162	5.91	102.5							50
1	56	14.60	14.60	33.389	24.818	313.8	.180	5.90	101.9	3.6	.33	.1	.00	.29	.10	56
1	67	13.81	13.80	33.367	24.966	299.9	.214	5.63	95.6	4.3	.45	1.1	.05	.57	.30	67
	75 ISL	13.12	13.11	33.366	25.106	287.3	.238	5.44	91.0							76
1	76	13.06	13.05	33.358	25.111	286.3	.240	5.42	90.6	6.2	.60	3.7	.05	.40	.25	76
1	91	12.01	12.00	33.429	25.369	261.9	.281	4.83	79.0	9.2	.86	8.5	.02	.17	.15	91
	100 ISL	11.31	11.30	33.497	25.552	244.7	.305	4.51	72.7							101
1	105	10.99	10.97	33.537	25.642	236.2	.316	4.35	69.7	14.0	1.16	13.9	.01	.08	.06	105
1	121	9.95	9.93	33.735	25.976	204.6	.353	3.64	57.1	22.1	1.53	20.8	.00	.01	.03	122
	125 ISL	9.83	9.81	33.759	26.014	201.0	.360	3.55	55.6							126
1	146	9.38	9.36	33.845	26.157	187.8	.402	3.26	50.5	27.0	1.74	24.2	.00	.00	.02	147
	150 ISL	9.29	9.28	33.862	26.183	185.4	.408	3.23	49.9							151
1	167	8.94	8.92	33.927	26.291	175.4	.439	3.13	48.0	30.6	1.83	25.7	.00	.00	.02	168
1	187	8.59	8.57	33.973	26.381	167.1	.473	3.13	47.7	33.1	1.88	26.4	.00			188
	200 ISL	8.48	8.46	33.994	26.415	164.1	.495	3.01	45.7							202
1	207	8.43	8.41	34.004	26.430	162.8	.506	2.92	44.3	35.6	1.96	27.7	.00			208
1	237	8.07	8.04	34.053	26.524	154.3	.553	2.45	36.9	41.2	2.14	30.2	.01			238
	250 ISL	7.89	7.87	34.069	26.562	150.8	.574	2.28	34.1							252
1	275	7.57	7.54	34.095	26.630	144.6	.611	1.96	29.2	48.0	2.35	33.1	.00			277
	300 ISL	7.28	7.25	34.127	26.697	138.6	.646	1.61	23.8							302
1	337	6.88	6.85	34.171	26.786	130.4	.696	1.13	16.6	61.7	2.70	37.0	.00			339
	400 ISL	6.36	6.32	34.211	26.888	121.4	.775	.74	10.7							403
1	409	6.29	6.26	34.215	26.900	120.3	.786	.71	10.3	72.1	2.92	39.6	.00			412
1	483	5.79	5.75	34.252	26.993	112.0	.872	.50	7.1	81.6	3.07	41.6	.00			486
	500 ISL	5.70	5.66	34.265	27.014	110.1	.891	.46	6.5							504
1	557	5.49	5.45	34.321	27.084	104.0	.952	.33	4.7	89.3	3.16	42.8	.00			561

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 00.8 N	119 14.0 W	03/09/84	1541 GMT	1570 M	340 14 KT	320 04 07	1	1022.7 MB	15.0 C	13.2 C	2/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.12	15.12	33.434	24.740	320.4	.000	5.90	103.0							0
1	1	15.12	15.12	33.434	24.740	319.5	.003	5.90	103.0	3.8	.31	.1	.00	.12	.02	1
	10 ISL	15.12	15.12	33.434	24.740	319.6	.032	6.06	105.8							10
1	11	15.13	15.13	33.431	24.735	320.3	.035	6.07	106.0	3.5	.32	.1	.00	.12	.01	11
	20 ISL	15.06	15.06	33.436	24.754	318.9	.064	6.04	105.3							20
1	26	15.00	15.00	33.439	24.770	317.5	.083	5.99	104.3	3.5	.31	.1	.00	.18	.01	26
	30 ISL	14.92	14.92	33.440	24.788	316.0	.096	5.92	103.0							30
1	41	14.89	14.89	33.441	24.796	315.5	.130	5.90	102.5	3.4	.32	.1	.00	.25	.08	41
	50 ISL	13.94	13.93	33.413	24.975	298.6	.153	5.48	93.4							50
1	57	13.01	13.00	33.405	25.157	281.3	.178	5.09	85.1	6.8	.70	5.5	.05	.40	.26	57
1	67	11.66	11.65	33.446	25.449	253.7	.204	4.55	73.9	11.3	1.01	11.0	.02	.19	.16	67
	75 ISL	11.34	11.33	33.497	25.546	244.6	.225	4.31	69.5							76
1	77	11.32	11.31	33.508	25.559	243.4	.229	4.28	69.0	13.8	1.17	13.8	.01	.13	.12	77
1	92	10.72	10.71	33.620	25.752	225.3	.264	4.19	66.8	15.9	1.24	15.7	.01	.04	.04	92
	100 ISL	10.42	10.41	33.660	25.837	217.5	.283	4.06	64.3							101
1	106	10.19	10.18	33.688	25.898	211.6	.297	3.94	62.1	19.5	1.42	18.6	.01	.02	.03	107
1	121	9.67	9.65	33.773	26.052	197.3	.327	3.64	56.7	23.4	1.60	21.6	.00	.01	.02	122
	125 ISL	9.58	9.56	33.791	26.081	194.7	.334	3.59	55.8							126
1	146	9.16	9.14	33.881	26.219	181.8	.374	3.37	51.2	28.1	1.77	24.3	.00	.01	.02	147
	150 ISL	9.10	9.08	33.896	26.242	179.8	.381	3.27	50.3							151
1	167	8.79	8.77	33.958	26.338	170.9	.411	3.03	46.4	32.0	1.91	26.4	.00	.00	.02	168
1	186	8.36	8.34	34.008	26.444	161.0	.442	2.85	43.2	36.1	2.01	28.0	.00			187
	200 ISL	8.18	8.16	34.029	26.487	157.1	.464	2.71	40.9							202
1	207	8.12	8.10	34.035	26.502	155.8	.475	2.65	39.9	39.5	2.11	29.4	.00			208
1	238	7.78	7.76	34.045	26.560	150.8	.522	2.59	38.7	42.8	2.15	30.3	.00			239
	250 ISL	7.68	7.65	34.056	26.583	148.7	.541	2.43	36.3							252
1	276	7.47	7.44	34.087	26.638	143.8	.579	2.01	29.9	49.1	2.38	33.1	.00			278
	300 ISL	7.20	7.18	34.113	26.696	138.6	.613	1.66	24.5							302
1	336	6.80	6.77	34.152	26.793	130.7	.661	1.20	17.6	61.3	2.70	37.4	.00			338
	400 ISL	6.26	6.22	34.207	26.898	120.4	.742	.72	10.5							403
1	409	6.19	6.16	34.214	26.912	119.1	.753	.68	9.8	73.3	2.95	40.7	.00			412
1	485	5.76	5.72	34.272	27.013	110.2	.839	.43	6.1	82.4	3.09	42.2	.00			488
	500 ISL	5.69	5.64	34.283	27.031	108.6	.856	.40	5.6							504
1	559	5.46	5.42	34.326	27.092	103.3	.919	.31	4.4	89.4	3.18	43.0	.00			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 50.7 N	119 34.3 W	03/09/84	1953 GMT	2590 M	340	20 KT	330 06 08	1	1023.4 MB	16.2 C	14.2 C	2/8	CS

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	15.68	15.68	33.461	24.637	329.4	.000	5.82	102.8							0
1	2		15.68	15.68	33.461	24.637	329.4	.007	5.82	102.8	3.4	.31	.1	.00	.10	.02	2
	10	ISL	15.68	15.67	33.461	24.638	329.4	.033	6.09	107.5							10
1	12		15.66	15.66	33.459	24.641	329.4	.039	6.13	108.2	3.4	.31	.1	.00	.11	.02	12
	20	ISL	15.28	15.27	33.461	24.727	321.4	.066	6.09	106.6							20
1	28		14.89	14.88	33.467	24.817	313.1	.091	6.04	104.9	2.8	.31	.1	.00	.12	.03	28
	30	ISL	14.83	14.83	33.467	24.829	312.2	.097	6.02	104.4							30
1	42		14.82	14.82	33.469	24.832	312.0	.134	5.89	102.2	2.8	.31	.1	.00	.18	.04	42
	50	ISL	14.79	14.79	33.474	24.842	311.3	.160	5.88	101.9							50
1	57		14.76	14.75	33.478	24.854	310.4	.181	5.86	101.5	2.9	.32	.0	.00	.25	.11	57
1	67		13.50	13.49	33.448	25.094	287.7	.210	5.19	87.6	6.3	.63	4.5	.24	.52	.37	67
	75	ISL	12.37	12.36	33.448	25.317	266.9	.233	4.73	78.0							76
1	78		12.05	12.04	33.448	25.378	260.8	.240	4.60	75.3	10.8	.96	10.4	.06	.38	.40	78
1	93		11.28	11.27	33.536	25.587	241.2	.278	4.11	66.3	14.6	1.21	14.8	.04	.29	.21	93
	100	ISL	11.00	10.99	33.573	25.667	233.7	.295	3.94	63.1							101
1	108		10.71	10.70	33.616	25.752	225.7	.313	3.79	60.4	18.1	1.40	17.9	.02	.11	.16	108
1	122		9.87	9.86	33.753	26.003	202.1	.365	3.49	54.6	23.2	1.64	21.8	.01	.02	.07	123
	125	ISL	9.78	9.77	33.769	26.030	199.5	.350	3.45	53.9							126
1	147		9.23	9.21	33.875	26.203	183.4	.392	3.14	48.5	28.4	1.82	25.0	.00	.00	.03	148
	150	ISL	9.15	9.13	33.890	26.228	181.1	.397	3.10	47.8							151
1	167		8.71	8.69	33.967	26.358	169.0	.427	2.89	44.1	33.0	1.96	27.4	.00	.01	.03	168
1	188		8.50	8.49	34.006	26.420	163.4	.462	2.73	41.5	35.4	2.05	28.5	.00			189
	200	ISL	8.26	8.24	34.022	26.470	158.8	.481	2.70	40.9							202
1	208		8.09	8.07	34.032	26.503	155.7	.494	2.68	40.4	39.7	2.11	29.6	.00			209
1	237		7.74	7.72	34.065	26.581	148.7	.538	2.51	38.5	44.8	2.27	31.5	.00			238
	250	ISL	7.57	7.55	34.075	26.614	145.8	.557	2.15	32.1							252
1	277		7.25	7.22	34.093	26.674	140.3	.596	1.85	27.3	52.3	2.46	34.1	.00			279
	300	ISL	7.05	7.03	34.114	26.718	136.4	.628	1.59	23.6							302
1	339		6.79	6.76	34.149	26.781	130.9	.678	1.21	17.7	61.7	2.72	37.2	.00			340
	400	ISL	6.42	6.39	34.187	26.861	123.9	.757	.87	12.6							403
1	412		6.35	6.31	34.194	26.876	122.6	.773	.82	11.9	70.4	2.93	39.7	.00			415
1	486		5.81	5.77	34.251	26.990	112.4	.859	.50	7.1	81.2	3.08	42.0	.00			489
	500	ISL	5.73	5.69	34.262	27.009	110.7	.875	.46	6.6							504
1	559		5.47	5.43	34.305	27.074	105.0	.938	.37	5.2	88.6	3.18	43.2	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 30.8 N	120 14.9 W	03/10/84	0157 GMT	3920 M	320	17 KT	330 05 06	1	1022.0 MB	14.9 C	13.8 C	7/8	SC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	15.08	15.08	33.489	24.791	314.1	.000	5.93	103.5							0
1	1		15.08	15.08	33.489	24.791	314.9	.003	5.93	103.5	3.3	.32	.0	.00	.14	.03	1
	10	ISL	15.08	15.07	33.488	24.791	314.7	.031	6.05	105.6							10
1	11		15.04	15.04	33.488	24.799	314.2	.034	6.06	105.6	3.2	.32	.0	.00	.14	.02	11
	20	ISL	14.89	14.88	33.486	24.831	311.5	.063	6.01	104.5							20
	30	ISL	14.66	14.66	33.482	24.876	307.5	.094	6.06	104.8							30
1	31		14.64	14.64	33.482	24.880	307.1	.096	5.97	103.2	3.2	.32	.0	.00	.19	.09	31
	50	ISL	14.23	14.23	33.464	24.954	300.7	.155	5.91	101.4							50
1	51		14.22	14.21	33.463	24.957	300.4	.157	5.91	101.3	3.3	.34	.2	.02	.56	.26	51
1	66		13.79	13.78	33.459	25.042	292.6	.201	5.77	98.0	3.8	.44	1.1	.14	.45	.25	66
	75	ISL	12.62	12.61	33.445	25.265	271.6	.227	4.90	81.2							76
1	77		12.40	12.39	33.444	25.307	267.6	.232	4.74	78.2	9.5	.88	6.8	.10	.35	.18	77
1	86		11.74	11.73	33.469	25.452	253.9	.255	4.47	72.7	12.0	1.05	11.9	.06	.23	.16	86
1	100		11.04	11.03	33.517	25.616	238.6	.289	4.18	67.0	15.3	1.22	15.0	.03	.13	.11	100
1	114		10.50	10.49	33.624	25.795	221.8	.324	3.77	59.8	19.1	1.43	18.6	.02	.04	.07	115
	125	ISL	10.15	10.14	33.686	25.903	211.6	.347	3.54	55.8							126
1	140		9.72	9.70	33.767	26.040	198.9	.378	3.28	51.2	25.0	1.72	23.1	.01	.01	.05	141
	150	ISL	9.50	9.48	33.821	26.118	191.7	.397	3.14	48.8							151
1	160		9.31	9.29	33.872	26.188	185.1	.416	3.02	46.7	28.7	1.85	25.4	.01	.01	.03	161
1	180		8.99	8.97	33.936	26.290	175.8	.452	2.84	43.6	31.9	1.94	26.7	.01	.01	.03	181
	200	ISL	8.56	8.54	34.004	26.411	164.6	.486	2.65	40.4							202
1	205		8.46	8.43	34.018	26.438	162.0	.494	2.61	39.6	36.9	2.03	28.8	.01			206
1	230		8.17	8.14	34.049	26.506	155.9	.533	2.48	37.4	40.6	2.15	30.2	.01			231
	250	ISL	7.92	7.89	34.059	26.551	151.9	.565	2.39	35.8							252
1	260		7.79	7.76	34.061	26.572	150.0	.579	2.33	34.9	44.2	2.24	31.5	.00			261
1	294		7.26	7.23	34.084	26.665	141.4	.630	1.91	28.2	51.5	2.41	34.2	.01			296
	300	ISL	7.19	7.16	34.090	26.680	140.1	.638	1.83	27.0							302
1	344		6.71	6.68	34.133	26.780	131.0	.697	1.27	18.5	61.3	2.67	37.5	.00			346
	400	ISL	6.29	6.26	34.170	26.866	123.6	.769	.86	12.5							403
1	408		6.24	6.21	34.175	26.875	122.6	.779	.82	11.9	70.6	2.87	40.0	.01			411
1	483		5.80	5.76	34.253	26.993	112.1	.866	.45	6.4	81.3	3.05	42.2	.01			486
	500	ISL	5.72	5.68	34.267	27.014	110.2	.885	.36	5.2							504
1	562		5.47	5.42	34.305	27.075	105.0	.952	.34	4.8	88.4	3.13	43.1	.00			566

RV NEW HORIZON | CALCOFI CRUISE 8402-3 | STATION 93 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 10.3 N	120 55.9 W	02/22/84	2151 GMT		320	29 KT	320 11 10	2	1015.1 MB	14.3 C	11.1 C	8/8	CC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.60	14.60	33.317	24.762	317.4	.000	5.89	101.7							0
1	1	14.60	14.60	33.317	24.762	317.5	.003	5.89	101.7	2.8	.35	.2	.00	.19	.09	1
	10 ISL	14.60	14.60	33.315	24.760	318.1	.032	6.03	104.0							10
1	12	14.61	14.61	33.315	24.759	318.2	.038	6.04	104.3	2.8	.35	.2	.00	.17	.10	12
	20 ISL	14.58	14.57	33.316	24.766	317.6	.064	6.01	103.6							20
1	27	14.54	14.54	33.317	24.775	317.0	.085	5.95	102.6	2.8	.36	.2	.00	.18	.11	27
	30 ISL	14.53	14.53	33.316	24.776	317.0	.095	5.96	102.7							30
1	42	14.52	14.51	33.316	24.779	317.0	.133	5.96	102.7	2.7	.35	.2	.00	.21	.11	42
	50 ISL	14.50	14.49	33.315	24.783	316.9	.159	5.96	102.6							50
1	58	14.49	14.47	33.315	24.787	316.8	.183	5.96	102.6	2.7	.35	.2	.00	.24	.13	58
1	73	14.45	14.44	33.317	24.795	316.4	.231	5.95	102.4	2.7	.38	.2	.01	.21	.12	73
	75 ISL	14.44	14.43	33.317	24.798	316.3	.238	5.93	102.1							76
1	83	14.44	14.43	33.318	24.799	316.3	.262	5.95	102.0	2.7	.38	.2	.01	.22	.13	83
1	99	12.99	12.98	33.321	25.097	288.2	.310	5.36	89.5	5.5	.66	4.1	.04	.12	.23	99
	100 ISL	12.87	12.86	33.327	25.125	285.6	.314	5.30	88.3							101
1	118	11.49	11.48	33.431	25.469	253.1	.364	4.64	75.1	10.7	1.08	11.3	.01	.05	.08	119
	125 ISL	11.11	11.10	33.475	25.572	243.3	.380	4.47	71.7							126
1	139	10.43	10.41	33.581	25.774	226.3	.414	4.17	66.0	16.3	1.39	16.5	.01	.01	.03	140
	150 ISL	10.04	10.02	33.668	25.909	211.6	.437	4.03	63.3							151
1	159	9.76	9.74	33.738	26.010	202.1	.456	3.92	61.2	20.8	1.57	19.7	.01	.00	.02	160
1	180	9.32	9.30	33.840	26.162	188.0	.497	3.49	54.0	25.6	1.76	23.0	.01	.00	.02	181
1	200	9.09	9.07	33.891	26.239	181.0	.534	3.34	51.4	27.8	1.85	24.3	.00			201
1	221	8.57	8.54	33.949	26.367	169.1	.570	3.14	47.8	32.0	1.98	26.1	.00			222
	250 ISL	8.22	8.20	33.990	26.452	161.4	.618	3.14	47.4							252
1	257	8.18	8.15	33.996	26.463	160.5	.629	3.14	47.4	35.2	2.02	27.0	.00			258
	300 ISL	7.80	7.77	34.044	26.557	152.2	.697	2.64	39.6							302
1	308	7.73	7.70	34.051	26.574	150.6	.709	2.51	37.5	43.0	2.28	30.1	.00			310
1	365	6.91	6.88	34.080	26.711	138.0	.791	1.82	26.7	54.1	2.57	34.2	.00			367
	400 ISL	6.57	6.54	34.108	26.779	131.9	.838	1.42	20.7							403
1	452	6.22	6.18	34.159	26.866	124.0	.905	.93	13.4	68.3	2.93	39.0	.00			455
	500 ISL	5.96	5.92	34.215	26.942	117.2	.963	.63	9.1							504
1	540	5.78	5.73	34.259	27.001	112.1	1.009	.47	6.7	79.6	3.14	41.1	.00			544
	600 ISL	5.49	5.44	34.306	27.073	105.6	1.074	.42	6.0							605
1	630	5.35	5.29	34.323	27.104	102.9	1.105	.32	4.5	89.8	3.24	42.5				634

RV NEW HORIZON | CALCOFI CRUISE 8402-3 | STATION 93 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 49.1 N	121 35.2 W	02/26/84	2006 GMT		010	22 KT	350 07 09	1	1019.5 MB	16.7 C	13.1 C	6/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.57	15.57	33.442	24.647	328.4	.000	5.84	102.9							0
1	1	15.57	15.57	33.442	24.647	328.4	.003	5.84	102.9	2.5	.33	.3	.00	.10	.05	1
	10 ISL	15.55	15.55	33.439	24.648	328.6	.033	5.87	103.3							10
1	12	15.55	15.55	33.438	24.648	328.6	.039	5.87	103.4	2.4	.33	.3	.00	.09	.05	12
	20 ISL	15.55	15.55	33.438	24.648	328.9	.066	5.89	103.7							20
1	27	15.55	15.55	33.437	24.648	329.1	.088	5.90	103.9	2.4	.33	.3	.00	.10	.05	27
	30 ISL	15.56	15.56	33.438	24.647	329.3	.099	5.90	103.8							30
1	42	15.56	15.56	33.438	24.647	329.7	.138	5.88	103.5	2.4	.33	.2	.01	.11	.06	42
	50 ISL	15.53	15.52	33.430	24.648	329.9	.165	5.88	103.5							50
1	58	15.47	15.46	33.413	24.649	330.0	.190	5.88	103.3	2.4	.32	.2	.03	.11	.06	58
1	73	15.24	15.23	33.360	24.659	329.5	.239	5.90	103.2	2.4	.35	.3	.00	.12	.06	73
	75 ISL	15.21	15.20	33.355	24.661	329.4	.247	5.90	103.1							76
1	83	15.13	15.12	33.340	24.667	328.9	.272	5.91	103.1	2.3	.34	.3	.00	.12	.07	83
1	99	15.07	15.05	33.323	24.668	329.4	.325	5.91	102.9	2.3	.34	.2	.00	.13	.08	99
	100 ISL	15.06	15.05	33.354	24.694	327.0	.329	5.89	102.6							101
1	119	14.73	14.71	33.779	25.094	289.4	.386	5.51	95.6	3.3	.37	1.1	.04	.12	.16	119
	125 ISL	14.38	14.36	33.742	25.141	281.4	.405	5.42	93.3							126
1	139	13.39	13.37	33.726	25.332	267.1	.444	5.24	88.4	5.2	.55	4.2	.04	.06	.08	140
	150 ISL	12.62	12.60	33.674	25.444	256.5	.472	5.08	84.4							151
1	160	11.88	11.86	33.636	25.556	245.9	.498	4.91	80.2	9.2	.87	9.1	.01	.03	.04	161
1	180	10.67	10.65	33.671	25.803	222.4	.545	4.47	71.2	14.5	1.19	14.5	.01	.01	.03	181
	200 ISL	9.84	9.81	33.737	25.997	204.3	.587	3.95	61.7							202
1	202	9.77	9.74	33.745	26.015	202.5	.591	3.90	60.9	21.2	1.55	20.1	.01			203
1	222	9.22	9.19	33.863	26.198	185.4	.630	3.78	58.3	25.1	1.65	22.0	.01			223
	250 ISL	8.65	8.63	33.992	26.388	167.8	.679	3.17	48.3							252
1	259	8.53	8.51	34.018	26.426	164.2	.692	2.98	45.3	34.2	1.98	26.8	.01			259
	300 ISL	8.07	8.04	34.065	26.534	154.6	.759	2.61	39.3							302
1	309	8.00	7.97	34.066	26.546	153.5	.774	2.55	38.3	40.9	2.17	29.6	.01			311
1	366	7.48	7.45	34.133	26.674	142.0	.857	1.69	25.1	50.3	2.50	33.4	.00			368
	400 ISL	7.18	7.14	34.174	26.749	135.2	.905	1.26	18.6							403
1	454	6.71	6.67	34.226	26.854	125.7	.975	.75	11.0	64.6	2.89	38.1	.01			457
	500 ISL	6.34	6.30	34.246	26.919	119.9	1.032	.56	8.1							504
1	544	6.03	5.98	34.258	26.969	115.4	1.083	.48	6.9	76.2	3.05	40.8	.00			547
	600 ISL	5.69	5.64	34.288	27.035	109.5	1.146	.36	5.2							605
1	631	5.54	5.49	34.307	27.068	106.5	1.179	.32	4.5	85.7	3.15	42.5	.00			635

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 93 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 30.2 N	122 15.5 W	02/27/84	0131 GMT		060	11 KT	340 08 11	1	1017.8 MB	15.6 C	12.5 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.31	16.31	33.594	24.596	333.3	.000	5.65	101.1							0
1	1	16.31	16.31	33.594	24.596	333.3	.003	5.65	101.1	2.8	.32	.3	.00	.08	.06	1
	10 ISL	16.31	16.31	33.594	24.596	333.7	.033	5.68	101.6							10
1	12	16.31	16.31	33.593	24.595	333.7	.040	5.68	101.6	3.2	.32	.3	.00	.07	.03	12
	20 ISL	16.28	16.28	33.586	24.598	333.7	.067	5.67	101.3							20
1	27	16.25	16.24	33.579	24.600	333.8	.090	5.65	100.9	2.8	.33	.3	.00	.09	.03	27
	30 ISL	16.25	16.24	33.578	24.600	333.9	.100	5.65	101.0							30
1	42	16.25	16.24	33.577	24.599	334.3	.140	5.66	101.1	3.0	.34	.3	.00	.09	.04	42
	50 ISL	16.24	16.23	33.577	24.601	334.4	.167	5.66	101.1							50
1	57	16.23	16.23	33.577	24.603	334.4	.190	5.66	101.1	2.A	.33	.3	.00	.10	.04	57
1	67	16.22	16.21	33.578	24.607	334.3	.223	5.66	101.1	3.1	.34	.3	.00	.09	.04	67
	75 ISL	16.22	16.21	33.583	24.611	334.3	.251	5.66	101.1							76
1	77	16.23	16.21	33.585	24.612	334.3	.256	5.66	101.1	3.1	.34	.3	.00	.08	.03	77
1	93	16.24	16.22	33.592	24.615	334.5	.309	5.66	101.1	3.0	.34	.3	.00	.09	.04	93
	100 ISL	16.22	16.21	33.590	24.617	334.5	.334	5.65	101.0							101
1	108	16.21	16.19	33.588	24.619	334.5	.359	5.65	100.8	2.5	.35	.3	.00	.09	.04	108
1	122	13.83	13.81	33.507	25.073	291.3	.406	5.10	86.7	5.3	.67	3.7	.04	.11	.18	123
	125 ISL	13.65	13.63	33.510	25.112	287.7	.413	5.06	85.7							126
1	148	12.74	12.72	33.578	25.346	265.8	.478	4.75	79.0	8.4	.91	7.9	.02	.06	.08	149
	150 ISL	12.65	12.63	33.581	25.368	263.7	.482	4.71	78.2							151
1	168	11.59	11.57	33.635	25.610	240.9	.528	4.21	68.3	13.2	1.15	13.3	.01	.03	.04	169
1	189	10.85	10.83	33.735	25.821	221.2	.577	5.70	59.2	19.0	1.47	17.7	.00			190
	200 ISL	10.52	10.50	33.766	25.904	213.5	.600	3.64	57.8							202
1	209	10.25	10.23	33.788	25.967	207.5	.619	3.62	57.1	21.4	1.57	19.8	.01			210
1	240	9.30	9.27	33.898	26.212	184.5	.680	3.31	51.2	27.2	1.77	23.4	.01			241
	250 ISL	9.15	9.12	33.946	26.273	178.9	.698	3.14	48.4							252
1	281	8.83	8.80	34.072	26.424	165.1	.751	2.60	39.8	35.3	2.08	27.0	.00			282
	300 ISL	8.46	8.43	34.103	26.506	157.4	.782	2.33	35.4							302
1	342	7.63	7.59	34.125	26.647	144.3	.846	1.85	27.6	48.4	2.43	32.2	.00			344
	400 ISL	6.90	6.86	34.141	26.761	133.8	.926	1.33	19.6							403
1	420	6.73	6.69	34.146	26.788	131.4	.952	1.19	17.4	61.1	2.74	36.6	.00			422
1	498	6.35	6.30	34.226	26.902	121.4	1.051	.67	9.7	69.8	2.94	39.0	.00			501
	500 ISL	6.33	6.29	34.228	26.906	121.1	1.054	.66	9.5							504
1	576	5.65	5.60	34.264	27.020	110.5	1.142	.40	5.7	82.4	3.09	41.7	.00			580

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 97 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 15.4 N	117 08.8 W	03/13/84	2348 GMT	53 M	300	10 KT	280 02 04	2	1017.3 MB	18.8 C	15.0 C	2/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.10	16.10	33.478	24.555	337.1	.000	6.07	108.1	3.0	.33	.0	.00	.51	.06	0
1	10	14.56	14.56	33.453	24.875	307.0	.032	6.32	109.1	3.2	.42	.0	.00	.90	.28	10
1	20	14.09	14.09	33.481	24.995	295.9	.062	5.81	99.3	3.9	.52	1.3	.06	.98	.24	20
1	30	13.62	13.62	33.506	25.112	284.9	.091	5.33	90.3	6.4	.65	3.6	.14	.85	.75	30
1	40	12.80	12.80	33.510	25.279	269.3	.119	4.73	78.8	9.8	.89	7.9	.24	.45	.47	40

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 97 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 05.5 N	117 29.2 W	03/14/84	0612 GMT	1040 M	350	07 KT	280 02 04	1	1018.3 MB	16.7 C	14.5 C	5/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.12	16.12	33.480	24.553	337.3	.000	5.87	104.5	2.6	.31	.3	.00	.15	.03	0
1	10	16.05	16.05	33.479	24.568	336.2	.033	5.99	106.5	2.2	.31	.1	.00	.15	.03	10
	20 ISL	15.81	15.81	33.472	24.617	331.9	.067	6.14	108.7							20
1	21	15.78	15.78	33.471	24.623	331.4	.070	6.15	108.8	1.9	.31	.0	.00	.26	.06	21
	30 ISL	15.43	15.42	33.467	24.699	324.4	.100	5.99	105.2							30
1	31	15.38	15.38	33.466	24.707	323.6	.103	5.97	104.8	1.7	.35	.0	.00	.36	.07	31
1	41	14.80	14.79	33.455	24.827	312.5	.134	5.95	103.2	1.8	.39	.0	.00	.73	.25	41
	50 ISL	13.41	13.40	33.437	25.103	286.5	.162	5.28	88.9							50
1	51	13.29	13.28	33.437	25.127	284.1	.164	5.21	87.6	5.1	.65	3.6	.13	1.14	.49	51
1	61	12.59	12.58	33.481	25.299	268.0	.192	4.79	79.4	7.3	.85	8.1	.07	.38	.28	61
1	70	12.28	12.27	33.499	25.372	261.2	.215	5.36	88.3	8.5	.95	9.5	.04	.21	.20	70
	75 ISL	12.08	12.07	33.509	25.418	256.9	.229	5.18	85.0							76
1	86	11.66	11.65	33.539	25.520	247.4	.256	4.50	73.1	10.1	1.04	11.6	.02	.11	.11	86
	100 ISL	11.09	11.08	33.611	25.681	232.6	.290	4.10	65.9							101
1	101	11.07	11.06	33.615	25.687	231.8	.291	4.09	65.7	14.1	1.27	15.3	.01	.04	.09	101
1	120	10.42	10.41	33.708	25.874	214.4	.336	3.68	58.3	19.2	1.49	19.0	.00	.01	.04	121
	125 ISL	10.28	10.27	33.731	25.917	210.4	.346	3.60	56.8							126
1	144	9.76	9.75	33.829	26.081	195.1	.385	3.29	51.4	25.2	1.72	22.4	.01	.01	.02	145
	150 ISL	9.66	9.64	33.855	26.118	191.7	.396	3.21	50.1							151
1	175	9.27	9.25	33.955	26.260	178.6	.442	2.90	44.8	29.9	1.90	25.3	.00			176
	200 ISL	8.79	8.77	34.043	26.406	165.2	.485	2.57	39.3							202
1	204	8.72	8.70	34.054	26.425	163.3	.491	2.52	38.5	36.1	2.08	27.8	.01			205
1	236	8.35	8.32	34.105	26.523	154.5	.542	2.17	32.9	41.3	2.29	29.8	.00			237
	250 ISL	8.21	8.18	34.121	26.557	151.5	.564	2.02	30.6							252
1	274	7.98	7.95	34.144	26.610	146.9	.600	1.78	26.8	46.9	2.42	31.7	.00			276
	300 ISL	7.71	7.68	34.165	26.666	141.8	.637	1.53	22.8							302
1	334	7.34	7.31	34.187	26.736	135.5	.684	1.23	18.2	56.1	2.65	34.8	.00			336
	400 ISL	6.63	6.59	34.202	26.846	125.6	.770	.88	12.8							403
1	409	6.53	6.50	34.204	26.860	124.3	.782	.84	12.2	67.6	2.86	38.3	.00			412
1	483	6.03	5.99	34.260	26.969	114.6	.870	.50	7.2	78.1	3.06	40.3	.00			486
	500 ISL	5.94	5.90	34.273	26.991	112.6	.889	.45	6.4							504
1	556	5.73	5.68	34.315	27.051	107.5	.951	.34	4.9	86.6	3.13	41.6	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
31 55.4 N	117 49.5 W	03/14/84	1026 GMT	1534 M	350 06 KT		1	1019.3 MB	16.1 C	15.0 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.79	15.79	33.480	24.626	330.4	.000	5.90	104.4	4.0	.35	.2	.00	.18	.00	0
1	10	15.81	15.80	33.479	24.623	331.0	.033	6.02	106.6	3.8	.36	.2	.00	.17	.03	10
1	20	15.73	15.72	33.480	24.642	329.5	.066	5.99	105.9	3.7	.35	.1	.00	.18	.06	20
1	30	15.65	15.65	33.479	24.658	328.3	.099	5.94	104.8	3.5	.36	.1	.00	.21	.08	30
1	40	15.01	15.00	33.460	24.785	318.5	.131	5.93	103.3	3.7	.37	.1	.00	.31	.15	40
	50 ISL	14.22	14.21	33.444	24.942	301.8	.162	5.92	101.5							50
1	51	14.15	14.14	33.443	24.955	300.6	.164	5.80	99.3	4.0	.49	.2	.02	.76	.38	51
1	61	13.25	13.24	33.429	25.128	284.2	.194	5.26	88.3	6.5	.61	4.0	.20	.36	.30	61
1	70	12.49	12.48	33.456	25.299	268.2	.218	4.78	79.0	9.4	.78	8.1	.16	.23	.33	70
	75 ISL	12.15	12.14	33.483	25.385	260.1	.232	4.57	75.1							76
1	85	11.65	11.64	33.535	25.519	247.5	.257	4.31	70.0	13.3	1.04	12.6	.04	.20	.21	85
	100 ISL	11.06	11.05	33.595	25.674	233.1	.294	4.12	66.1							101
1	101	11.04	11.03	33.597	25.678	232.6	.295	4.11	65.9	15.8	1.20	15.2	.02	.10	.10	101
1	120	10.62	10.60	33.735	25.861	215.7	.340	3.54	56.3	20.8	1.44	19.2	.00	.03	.06	121
	125 ISL	10.48	10.46	33.767	25.910	211.1	.349	3.43	54.4							126
1	146	9.83	9.81	33.890	26.117	191.8	.392	3.05	47.7	27.0	1.71	23.4	.01	.00	.05	147
	150 ISL	9.75	9.73	33.901	26.139	189.7	.399	3.03	47.3							151
1	176	9.30	9.28	33.950	26.251	179.5	.447	2.96	45.8	30.2	1.82	25.3	.00			177
	200 ISL	9.09	9.06	34.006	26.331	172.4	.489	2.73	42.1							202
1	206	9.03	9.01	34.019	26.349	170.7	.500	2.67	41.1	33.8	1.93	26.8	.00			207
1	235	8.61	8.59	34.064	26.450	161.5	.547	2.46	37.5	37.6	2.05	28.3	.00			236
	250 ISL	8.30	8.27	34.070	26.503	156.6	.572	2.37	35.8							252
1	274	7.79	7.76	34.075	26.583	149.3	.609	2.20	32.9	45.5	2.21	31.1	.01			276
	300 ISL	7.42	7.39	34.091	26.645	143.2	.647	1.93	28.6							302
1	335	7.04	7.00	34.119	26.724	136.3	.695	1.53	22.5	56.7	2.52	35.2	.00			337
	400 ISL	6.49	6.46	34.180	26.846	125.4	.781	.95	13.8							403
1	408	6.44	6.40	34.188	26.859	124.2	.791	.89	12.9	68.9	2.80	38.8	.00			411
1	483	6.07	6.03	34.255	26.960	115.4	.880	.54	7.8	77.6	2.98	40.8	.00			486
	500 ISL	5.98	5.94	34.269	26.984	113.4	.900	.48	7.0							504
1	555	5.65	5.60	34.310	27.057	106.8	.961	.37	5.3	87.7	3.10	42.2	.00			559

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
31 45.4 N	118 09.8 W	03/14/84	1459 GMT	1580 M	270 06 KT	270 03 08	1	1019.6 MB	16.0 C	15.0 C	2/8 AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.95	15.95	33.466	24.579	334.8	.000	5.80	103.0							0
1	1	15.95	15.95	33.466	24.579	335.0	.003	5.80	103.0	2.6	.25	.2	.00	.10	.04	1
	10 ISL	15.97	15.97	33.463	24.573	335.8	.034	5.89	104.6							10
1	12	15.98	15.97	33.463	24.573	335.9	.040	5.90	104.8	2.6	.24	.1	.00	.10	.05	12
	20 ISL	15.97	15.97	33.463	24.573	336.0	.067	5.87	104.2							20
1	26	15.97	15.96	33.463	24.574	336.1	.087	5.83	103.5	2.4	.25	.0	.00	.11	.03	26
	30 ISL	15.86	15.86	33.457	24.594	334.4	.101	5.83	103.3							30
1	41	15.52	15.52	33.441	24.658	328.7	.137	5.85	102.9	2.5	.26	.0	.00	.16	.03	41
	50 ISL	15.36	15.35	33.436	24.689	325.9	.167	5.84	102.4							50
1	56	15.19	15.18	33.431	24.724	322.8	.185	5.82	101.7	2.7	.28	.0	.00	.23	.11	56
1	66	14.50	14.49	33.411	24.858	310.3	.217	5.61	96.7	3.6	.38	.7	.07	.76	.29	66
	75 ISL	13.44	13.43	33.368	25.044	292.7	.245	5.43	91.4							76
1	76	13.36	13.35	33.365	25.058	291.4	.247	5.41	91.0	4.4	.51	2.8	.08	.42	.29	76
1	91	12.56	12.55	33.446	25.278	270.7	.289	4.90	81.1	7.7	.73	7.0	.03	.15	.20	91
	100 ISL	11.86	11.84	33.518	25.468	252.8	.313	4.59	74.9							101
1	106	11.43	11.41	33.562	25.582	242.0	.327	4.41	71.3	12.3	1.04	12.6	.01	.06	.08	106
1	120	10.49	10.48	33.656	25.821	219.4	.361	3.89	61.7	17.6	1.36	17.8	.00	.02	.04	121
	125 ISL	10.35	10.33	33.678	25.864	215.4	.371	3.80	60.0							126
1	146	9.92	9.90	33.782	26.018	201.2	.416	3.45	54.1	22.9	1.59	21.6	.00	.00	.03	147
	150 ISL	9.83	9.81	33.808	26.053	197.9	.423	3.36	52.6							151
1	166	9.45	9.43	33.913	26.198	184.4	.454	3.01	46.7	27.9	1.79	24.6	.00	.00	.02	167
1	185	9.13	9.11	33.968	26.293	175.7	.488	2.87	44.2	30.8	1.88	25.8	.00			186
	200 ISL	8.89	8.87	34.010	26.366	169.1	.514	2.73	41.8							202
1	205	8.81	8.79	34.023	26.386	167.0	.522	2.67	40.9	34.3	1.99	27.1	.00			206
1	235	8.37	8.35	34.097	26.513	155.5	.570	2.25	34.1	40.4	2.16	29.7	.00			236
	250 ISL	8.23	8.20	34.138	26.543	152.8	.594	2.16	32.6							252
1	275	8.02	7.99	34.111	26.577	149.9	.632	2.03	30.5	44.5	2.27	30.9	.00			277
	300 ISL	7.74	7.71	34.125	26.630	145.3	.668	1.75	26.2							302
1	334	7.34	7.32				.717	1.34	19.9	54.6	2.57	34.7	.01			337
	400 ISL	6.69	6.66	34.186	26.825	127.6	.804	.95	13.9							403
1	409	6.61	6.57	34.193	26.841	126.2	.816	.91	13.3	65.2	2.80	38.1	.00			412
1	484	6.07	6.03	34.253	26.959	115.6	.906	.51	7.3	76.4	2.98	40.5	.00			487
	500 ISL	5.99	5.94	34.267	26.981	113.6	.925	.45	6.5							504
1	558	5.76	5.71	34.320	27.051	107.5	.989	.35	5.0	85.0	3.08	41.8	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 36.5 N	118 29.0 W	03/14/84	1907 GMT	2140 M	310 06 KT	270 03 08	1	1021.3 MB	19.2 C	16.0 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.89	15.89	33.451	24.583	334.5	.000	5.82	103.2							0
1	1	15.89	15.89	33.451	24.583	334.6	.003	5.82	103.2	3.4	.29	.0	.00	.17	.02	1
	10 ISL	15.87	15.87	33.449	24.586	334.6	.033	6.03	106.9							10
1	11	15.87	15.87	33.449	24.586	334.5	.037	6.04	107.0	3.1	.31	.0	.00	.16	.03	11
	20 ISL	15.86	15.86	33.450	24.588	334.6	.067	5.91	104.7							20
1	21	15.86	15.86	33.450	24.589	334.6	.070	5.89	104.3	2.7	.31	.0	.00	.17	.05	21
	30 ISL	15.86	15.85	33.450	24.590	334.6	.100	5.85	103.6							30
1	31	15.83	15.83	33.450	24.595	334.4	.103	5.85	103.6	2.7	.30	.0	.00	.20	.05	31
1	41	15.57	15.57	33.418	24.629	331.4	.136	5.86	103.2	2.6	.31	.0	.00	.25	.04	41
1	50	14.99	14.98	33.359	24.711	323.7	.166	5.94	103.3	2.5	.33	.0	.00	.24	.06	50
1	60	14.52	14.52	33.339	24.796	315.9	.198	6.10	105.1	3.1	.35	.0	.00	.29	.11	60
1	70	13.64	13.63	33.333	24.975	299.1	.228	5.65	95.6	4.1	.47	.8	.06	.65	.39	70
	75 ISL	13.32	13.31	33.355	25.057	291.4	.244	5.45	91.7							76
1	86	12.78	12.77	33.419	25.214	276.7	.274	5.12	85.1	6.4	.72	5.5	.04	.25	.18	86
	100 ISL	11.93	11.92	33.510	25.449	254.6	.312	4.76	77.8							101
1	101	11.90	11.88	33.513	25.457	253.8	.314	4.75	77.6	9.8	.92	9.6	.02	.12	.09	101
1	121	10.82	10.80	33.566	25.695	231.5	.364	4.28	68.3	14.6	1.23	15.0	.01	.04	.05	122
	125 ISL	10.66	10.65	33.588	25.738	227.4	.373	4.24	67.4							126
1	146	9.91	9.89	33.735	25.983	204.5	.419	4.00	62.7	20.9	1.52	19.7	.01	.01	.02	147
	150 ISL	9.80	9.79	33.755	26.016	201.4	.426	3.93	61.3							151
1	176	9.17	9.15	33.878	26.215	182.8	.476	3.42	52.7	27.3	1.75	23.7	.00			177
	200 ISL	8.62	8.59	33.971	26.376	167.8	.518	3.24	49.4							202
1	205	8.51	8.49	33.987	26.404	165.3	.526	3.22	49.0	33.1	1.90	26.0	.00			206
1	237	8.13	8.10	34.022	26.490	157.5	.578	2.90	43.7	37.5	2.05	28.0	.00			238
	250 ISL	7.94	7.91	34.035	26.529	153.9	.598	2.72	40.9							252
1	275	7.56	7.53	34.057	26.602	147.3	.637	2.36	35.1	45.4	2.29	31.2	.00			277
	300 ISL	7.22	7.19	34.071	26.661	141.9	.672	2.04	30.1							302
1	335	6.81	6.78	34.093	26.735	135.2	.721	1.61	23.6	57.4	2.60	35.3	.00			337
	400 ISL	6.43	6.40	34.183	26.857	124.4	.805	.95	13.8							403
1	408	6.39	6.36	34.195	26.871	123.1	.815	.88	12.8	69.2	2.92	38.8	.00			411
1	484	5.78	5.74	34.243	26.967	112.6	.904	.49	7.0	81.6	3.09	41.4	.00			487
	500 ISL	5.69	5.65	34.256	27.009	110.7	.922	.40	5.8							504
1	558	5.46	5.41	34.308	27.078	104.6	.985	.38	5.4	90.7	3.20	42.7	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 25.4 N	118 50.3 W	03/15/84	0008 GMT	941 M	350 10 KT	270 05 12	1	1019.0 MB	17.5 C	15.7 C	3/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.73	15.73	33.381	24.564	337.0	.000	5.89	104.0							0
1	1	15.73	15.73	33.381	24.564	336.4	.003	5.89	104.0	3.9	.32	.1	.00	.11	.00	1
	10 ISL	15.48	15.48	33.380	24.618	331.7	.033	6.00	104.3							10
1	12	15.44	15.44	33.377	24.625	330.9	.040	6.00	105.4	3.7	.32	.0	.00	.12	.01	12
	20 ISL	15.32	15.32	33.381	24.655	328.3	.066	5.95	104.2							20
1	21	15.31	15.31	33.382	24.658	328.0	.069	5.94	104.0	3.6	.34	.0	.00	.12	.07	21
	30 ISL	15.23	15.22	33.388	24.682	326.0	.099	5.90	103.2							30
1	31	15.22	15.21	33.390	24.686	325.6	.102	5.90	103.1	3.4	.33	.0	.00	.19	.02	31
1	41	14.85	14.85	33.414	24.783	316.6	.134	5.92	102.8	3.3	.33	.0	.00	.24	.06	41
	50 ISL	14.76	14.76	33.414	24.802	316.6	.163	5.92	102.6							50
1	51	14.76	14.75	33.409	24.800	315.4	.165	5.92	102.6	3.3	.33	.0	.00	.25	.08	51
1	62	14.67	14.66	33.397	24.809	314.8	.200	5.92	102.4	3.2	.32	.0	.00	.31	.09	62
1	72	13.90	13.89	33.370	24.951	301.5	.231	5.71	97.2	3.7	.42	.6	.05	.69	.35	72
	75 ISL	13.53	13.52	33.395	25.047	294.4	.241	5.54	93.6							76
1	88	12.11	12.10	33.402	25.330	265.6	.276	4.82	79.0	8.8	.85	8.5	.03	.16	.16	88
	100 ISL	11.21	11.20	33.485	25.561	243.8	.307	4.35	70.0							101
1	103	11.07	11.05	33.504	25.601	240.0	.314	4.27	68.5	14.1	1.17	13.9	.02	.06	.08	103
1	122	10.37	10.36	33.636	25.826	218.9	.359	3.80	60.1	18.8	1.45	18.4	.01	.02	.05	123
	125 ISL	10.28	10.26	33.656	25.858	215.9	.365	3.73	58.9							126
1	147	9.54	9.52	33.821	26.111	192.3	.410	3.19	49.6	26.3	1.83	23.4	.00	.00	.03	148
	150 ISL	9.48	9.46	33.834	26.132	190.3	.415	3.16	49.0							151
1	177	8.97	8.95	33.925	26.285	176.2	.465	2.97	45.6	30.6	1.90	25.9	.00			178
	200 ISL	8.64	8.62	33.977	26.377	167.8	.504	2.86	43.7							202
1	209	8.55	8.52	33.991	26.403	165.5	.518	2.83	43.1	34.4	2.00	27.3	.00			209
1	238	8.25	8.23	34.024	26.473	159.2	.566	2.64	39.9	37.9	2.10	28.7	.00			239
	250 ISL	8.07	8.05	34.042	26.514	155.5	.585	2.48	37.3							252
1	276	7.67	7.64	34.076	26.601	147.5	.625	2.11	31.5	46.2	2.34	31.7	.00			278
	300 ISL	7.37	7.34	34.088	26.652	142.8	.660	1.90	28.2							302
1	336	6.97	6.94	34.097	26.716	137.1	.710	1.63	23.9	56.2	2.59	35.0	.00			338
	400 ISL	6.28	6.24	34.141	26.843	125.5	.794	1.00	14.4							403
1	409	6.19	6.15	34.150	26.862	123.8	.806	.91	13.1	70.5	2.92	39.1	.00			412
1	484	5.83	5.79	34.249	26.986	112.9	.894	.47	6.7	81.3	3.10	41.2	.00			487
	500 ISL	5.74	5.70	34.265	27.009	110.7	.912	.38	5.4							504
1	558	5.40	5.36	34.304	27.082	104.2	.974	.35	5.0	91.1	3.24	43.0	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 15.5 N	119 10.6 W	03/15/84	0612 GMT	3550 M	310 09 KT	290 02 05	1	1019.3 MB	18.7 C	16.9 C	5/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.37	15.37	33.404	24.663	327.3	.000	5.92	103.8							0
1	1	15.37	15.37	33.404	24.663	327.3	.003	5.92	103.8	2.5	.35	.1	.00	.12	.02	1
	10 ISL	15.23	15.22	33.407	24.696	324.0	.033	5.93	104.0							10
1	11	15.21	15.21	33.407	24.700	323.7	.036	6.03	105.4	2.4	.32	.1	.00	.12	.02	11
	20 ISL	15.06	15.06	33.411	24.736	320.5	.065	5.93	103.4							20
1	21	15.05	15.04	33.412	24.739	320.3	.068	5.92	103.2	2.4	.32	.1	.00	.16	.01	21
	30 ISL	15.05	15.04	33.415	24.742	320.3	.097	5.92	103.2							30
1	31	15.04	15.03	33.416	24.744	320.1	.100	5.92	103.1	2.4	.33	.0	.00	.15	.02	31
1	41	15.01	15.01	33.409	24.745	320.3	.132	5.93	103.3	2.3	.31	.0	.00	.17	.03	41
	50 ISL	14.38	14.37	33.396	24.870	308.6	.160	5.96	102.4							50
1	51	14.32	14.32	33.396	24.882	307.5	.163	5.96	102.3	2.4	.34	.0	.00	.22	.09	51
1	61	14.19	14.18	33.431	24.937	302.5	.193	5.87	100.5	2.7	.35	.1	.02	.58	.18	61
1	71	13.41	13.40	33.385	25.066	290.7	.223	5.45	91.8	4.0	.53	2.6	.10	.38	.19	71
	75 ISL	13.07	13.06	33.384	25.130	285.0	.235	5.29	88.4							76
1	86	12.28	12.27	33.383	25.283	270.0	.265	4.93	81.1	7.7	.79	7.5	.02	.13	.14	86
	100 ISL	11.38	11.37	33.480	25.526	247.2	.302	4.54	73.4							101
1	101	11.35	11.34	33.484	25.535	246.3	.303	4.53	73.1	11.3	1.05	11.9	.01	.05	.07	101
1	120	10.38	10.36	33.624	25.816	219.9	.349	3.87	61.2	17.6	1.43	18.0	.01	.01	.03	121
	125 ISL	10.19	10.18	33.663	25.879	214.0	.359	3.71	58.5							126
1	145	9.51	9.49	33.821	26.116	191.7	.400	3.13	48.6	25.6	1.79	23.8	.01	.00	.03	146
	150 ISL	9.41	9.39	33.843	26.150	188.6	.409	3.07	47.6							151
1	176	9.01	8.99	33.925	26.278	176.8	.457	2.90	44.6	30.0	1.90	26.0	.01			177
	200 ISL	8.68	8.66	33.984	26.377	167.9	.498	2.75	42.0							202
1	206	8.60	8.58	33.996	26.398	165.9	.508	2.71	41.3	34.1	2.07	27.8	.00			207
1	235	8.23	8.20	34.047	26.496	157.0	.555	2.43	36.7	39.0	2.19	29.4	.00			236
	250 ISL	8.05	8.02	34.064	26.536	153.4	.578	2.29	34.5							252
1	274	7.76	7.74	34.085	26.594	148.1	.615	2.07	31.0	44.8	2.33	31.7	.00			276
	300 ISL	7.43	7.40	34.108	26.661	142.1	.652	1.77	26.2							302
1	334	6.98	6.95	34.133	26.743	134.5	.699	1.37	20.1	57.1	2.63	35.8	.00			336
	400 ISL	6.25	6.21	34.158	26.861	123.8	.785	.91	13.2							403
1	408	6.17	6.13	34.161	26.873	122.7	.795	.87	12.5	70.7	2.87	39.3	.00			411
1	483	5.71	5.67	34.221	26.979	113.3	.883	.57	8.1	81.3	3.05	41.4	.00			486
	500 ISL	5.62	5.58	34.236	27.001	111.3	.902	.51	7.3							504
1	556	5.37	5.32	34.285	27.071	105.1	.963	.35	5.0	90.4	3.20	42.9	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 05.4 N	119 30.6 W	03/15/84	1045 GMT	3406 M	320 10 KT		1	1019.3 MB	15.8 C	14.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.55	15.55	33.401	24.620	331.2	.000	5.85	103.0							0
1	1	15.55	15.55	33.401	24.620	331.0	.003	5.85	103.0	3.0	.30	.1	.00	.09	.01	1
	10 ISL	15.55	15.55	33.398	24.618	331.0	.033	5.97	105.1							10
1	11	15.53	15.53	33.398	24.621	331.2	.036	5.98	105.2	2.8	.29	.0	.00	.09	.01	11
	20 ISL	15.23	15.23	33.393	24.685	325.4	.066	5.98	104.6							20
1	26	14.92	14.92	33.386	24.747	319.6	.095	5.98	103.9	2.5	.32	.0	.00	.14	.02	26
	30 ISL	14.60	14.60	33.367	24.801	314.6	.098	5.94	102.6							30
1	41	13.85	13.84	33.342	24.939	301.7	.131	5.82	98.9	3.6	.38	.4	.02	1.09	.19	41
	50 ISL	13.75	13.75	33.399	25.003	295.9	.159	5.75	97.6							50
1	56	13.70	13.69	33.434	25.042	292.4	.176	5.66	96.0	3.7	.45	1.2	.19	.52	.22	56
1	66	13.13	13.12	33.415	25.143	283.0	.204	5.29	88.6	5.4	.59	4.0	.24	.23	.19	66
	75 ISL	12.19	12.18	33.417	25.326	265.7	.230	4.88	80.2							76
1	77	12.02	12.01	33.420	25.362	262.3	.234	4.81	78.7	9.6	.86	8.9	.03	.13	.12	77
1	93	11.04	11.33	33.478	25.585	241.3	.274	4.43	71.0	13.4	1.07	13.0	.02	.04	.06	93
	100 ISL	10.85	10.84	33.503	25.639	236.4	.292	4.29	68.5							101
1	107	10.71	10.70	33.533	25.688	231.8	.307	4.17	66.4	15.2	1.22	15.5	.01	.03	.08	107
1	121	10.04	10.03	33.675	25.913	210.6	.340	3.81	59.8	20.4	1.46	19.5	.00	.01	.03	122
	125 ISL	9.92	9.90	33.701	25.954	206.7	.348	3.73	58.4							126
1	146	9.36	9.35	33.811	26.132	190.2	.390	3.35	51.9	25.8	1.73	23.4	.00	.00	.02	147
	150 ISL	9.31	9.29	33.822	26.150	188.5	.397	3.31	51.2							151
1	167	9.06	9.04	33.870	26.227	181.5	.429	3.18	48.9	28.6	1.80	24.8	.00	.00	.02	168
1	185	8.67	8.65	33.941	26.344	170.6	.460	3.08	47.0	32.1	1.86	26.2	.00			186
	200 ISL	8.47	8.45	33.979	26.405	165.1	.485	2.99	45.5							202
1	206	8.40	8.38	33.990	26.424	163.4	.495	2.95	44.7	35.0	1.92	27.2	.00			207
1	236	7.96	7.94	34.038	26.528	153.9	.542	2.59	38.9	40.7	2.11	29.4	.00			237
	250 ISL	7.83	7.81	34.055	26.560	151.0	.564	2.40	35.9							252
1	273	7.65	7.63	34.077	26.604	147.2	.599	2.09	31.2	46.7	2.29	32.8	.00			275
	300 ISL	7.38	7.35	34.097	26.659	142.2	.637	1.78	26.4							302
1	333	7.02	6.99	34.119	26.727	136.1	.683	1.44	21.2	56.6	2.51	35.3	.00			335
	400 ISL	6.41	6.37	34.165	26.845	125.5	.771	.93	13.5							403
1	407	6.35	6.31	34.170	26.857	124.4	.780	.89	12.9	69.3	2.83	38.6	.00			410
1	481	5.85	5.81	34.233	26.971	114.2	.868	.52	7.4	81.0	3.01	41.2	.00			484
	500 ISL	5.73	5.69	34.248	26.997	111.8	.889	.46	6.6							504
1	557	5.40	5.35	34.283	27.066	105.7	.952	.37	5.2	91.5	3.10	42.7	.00			561

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 97 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 55.7 N	119 50.8 W	03/15/84	1512 GMT	3550 M	340	11 KT	300 06 08	1	1021.3 MB	15.5 C	14.2 C	4/8	CU

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	15.15	15.15	33.410	24.714	322.2	.000	5.91	103.2							0
1	1		15.15	15.15	33.410	24.714	322.0	.003	5.91	103.2	2.5	.32	.2	.00	.12	.02	1
1	10		15.04	15.04	33.430	24.731	320.7	.032	5.95	103.7	2.4	.32	.1	.00	.14	.02	10
1	20		14.90	14.90	33.388	24.752	319.0	.064	5.97	103.7	2.0	.32	.1	.00	.17	.02	20
	30	ISL	14.90	14.89	33.387	24.753	319.0	.096	5.95	103.4							30
1	31		14.82	14.82	33.380	24.763	318.3	.099	5.95	103.2	1.9	.31	.2	.00	.19	.06	31
1	40		14.21	14.20	33.435	24.936	302.0	.127	6.00	102.8	1.9	.34	.2	.00	.34	.12	40
1	50		13.85	13.84	33.443	25.018	294.5	.156	5.87	99.8	2.5	.40	.7	.08	1.03	.22	50
1	60		13.73	13.72	33.458	25.054	291.3	.185	5.75	97.6	3.3	.45	1.2	.12	.35	.26	60
1	71		12.79	12.78	33.417	25.211	276.6	.217	5.20	86.5	6.1	.66	5.3	.27	.15	.23	71
	75	ISL	12.38	12.37	33.425	25.296	269.7	.228	5.02	82.7							76
1	85		11.54	11.53	33.428	25.456	253.4	.253	4.62	74.8	10.6	.98	11.1	.03	.11	.11	85
1	99		10.76	10.75	33.563	25.702	230.3	.287	3.97	63.3	16.3	1.32	16.4	.02	.04	.10	99
	100	ISL	10.71	10.69	33.575	25.720	228.6	.290	3.92	62.5							101
1	119		10.14	10.12	33.712	25.926	209.3	.333	3.47	54.6	21.5	1.57	20.6	.01	.02	.08	120
	125	ISL	9.96	9.95	33.745	25.981	204.2	.345	3.37	52.8							126
1	144		9.42	9.40	33.844	26.149	188.6	.382	3.08	47.8	27.3	1.80	24.1	.01	.00	.06	145
	150	ISL	9.30	9.29	33.870	26.188	186.9	.393	3.01	46.6							151
1	172		8.94	8.92	33.953	26.312	173.5	.433	2.79	42.8	31.7	1.95	26.7	.01			173
	200	ISL	8.52	8.50	34.014	26.424	163.3	.480	2.61	39.7							202
1	203		8.48	8.46	34.018	26.434	162.4	.484	2.59	39.4	36.7	2.09	28.5	.00			204
1	232		8.21	8.18	34.066	26.513	155.3	.530	2.28	34.4	40.3	2.22	29.9	.00			233
	250	ISL	7.91	7.89	34.076	26.565	150.6	.558	2.16	32.4							252
1	270		7.55	7.53	34.081	26.621	145.4	.588	2.04	30.4	47.5	2.37	32.1	.00			272
	300	ISL	7.10	7.08	34.098	26.698	138.3	.630	1.84	27.2							302
1	329		6.73	6.72				.670	1.62	23.7	57.8	2.59	35.7	.00			332
	400	ISL	6.22	6.19	34.161	26.866	123.3	.760	.89	12.9							403
1	403		6.21	6.17	34.163	26.870	123.0	.765	.86	12.4	70.8	2.89	39.2	.00			406
1	476		5.79	5.75	34.231	26.977	113.5	.850	.51	7.3	81.0	3.08	41.4	.00			479
	500	ISL	5.67	5.62	34.252	27.009	110.6	.877	.43	6.2							504
1	548		5.45	5.41	34.294	27.068	105.4	.929	.34	4.8	90.3	3.19	42.5	.00			552

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 97 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 35.6 N	120 29.5 W	02/27/84	2000 GMT	3909 M	180	10 KT	180 03 08	1	1019.3 MB	17.6 C	14.3 C	6/8	AC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	16.06	16.06	33.548	24.618	331.3	.000	5.70	101.5							0
1	1		16.06	16.06	33.548	24.618	331.2	.003	5.70	101.5	2.6	.39	.3	.00	.05	.03	1
	10	ISL	16.02	16.02	33.550	24.628	330.5	.033	5.72	101.7							10
1	12		16.02	16.02	33.552	24.631	330.3	.040	5.72	101.7	2.6	.39	.2	.00	.06	.04	12
	20	ISL	16.02	16.02	33.571	24.645	329.2	.066	5.72	101.8							20
1	27		16.03	16.02	33.586	24.656	328.4	.089	5.73	101.9					.06	.05	27
	30	ISL	16.05	16.04	33.591	24.656	328.6	.099	5.70	101.4							30
1	42		16.05	16.05	33.597	24.659	328.6	.138	5.69	101.3	2.6	.36	.2	.00	.08	.04	42
	50	ISL	15.44	15.43	33.477	24.704	324.5	.164	5.78	101.5							50
1	57		14.87	14.86	33.378	24.752	320.1	.186	5.86	101.7	2.6	.40	.2	.00	.15	.10	57
1	67		14.46	14.45	33.348	24.817	314.2	.218	5.92	101.9	2.6	.43	.2	.00	.18	.12	67
	75	ISL	14.37	14.36	33.348	24.836	312.5	.244	5.92	101.7							76
1	78		14.36	14.35	33.352	24.841	312.2	.252	5.92	101.7	2.6	.43	.3	.00	.22	.12	78
1	93		14.17	14.16	33.382	24.904	306.6	.298	5.92	101.3	2.6	.43	.3	.00	.35	.29	93
	100	ISL	14.13	14.11	33.390	24.921	305.3	.321	5.89	100.8							101
1	108		14.08	14.06	33.397	24.936	304.0	.344	5.87	100.5	2.6	.45	.3	.02	.34	.28	108
1	122		12.52	12.50	33.428	25.273	272.0	.387	5.10	84.3	6.6	.78	5.7	.02	.08	.13	123
	125	ISL	12.33	12.32	33.434	25.314	268.2	.394	5.00	82.4							126
1	148		11.04	11.02	33.531	25.628	238.5	.453	4.37	70.1	13.2	1.25	13.7	.00	.03	.05	149
	150	ISL	10.96	10.94	33.544	25.653	236.2	.457	4.36	69.7							151
1	168		10.22	10.20	33.702	25.906	212.4	.498	4.18	65.9	17.8	1.42	17.2	.00	.01	.02	169
1	189		9.68	9.66	33.832	26.098	194.4	.540	3.50	54.6	24.0	1.75	22.0	.00			190
	200	ISL	9.42	9.40	33.896	26.191	185.8	.561	3.27	50.7							202
1	209		9.21	9.19	33.940	26.259	179.4	.577	3.14	48.5	28.6	1.92	24.4	.00			210
1	240		8.43	8.40	33.986	26.418	164.6	.630	3.10	47.0	33.7	2.00	26.7	.00			241
	250	ISL	8.27	8.24	33.996	26.449	161.7	.647	3.09	46.7							252
1	282		7.92	7.89	34.017	26.518	155.5	.697	2.98	44.7	38.6	2.12	28.1	.00			283
	300	ISL	7.72	7.69	34.030	26.557	152.1	.725	2.78	41.5							302
1	343		7.30	7.27	34.065	26.645	144.2	.789	2.17	32.1	48.3	2.43	32.6	.00			345
	400	ISL	6.78	6.75	34.138	26.774	132.5	.868	1.32	19.3							403
1	420		6.61	6.57	34.163	26.818	128.5	.895	1.05	15.3	63.3	2.86	37.8	.00			423
1	499		5.95	5.91	34.207	26.939	117.6	.991	.63	9.0	76.8	3.02	40.6	.00			502
	500	ISL	5.95	5.90	34.209	26.940	117.5	.992	.63	9.0							504
1	576		5.44	5.39	34.262	27.044	108.0	1.078	.38	5.4	85.2	3.14	42.6	.01			580

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 97 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 15.3 N	121 09.3 W	02/27/84	1359 GMT		090	13 KT	060 04 11	1	1017.3 MB	15.5 C	14.0 C	2/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.19	16.19	33.574	24.608	332.2	.000	5.71	101.9							0
1	1	16.19	16.19	33.574	24.608	332.2	.003	5.71	101.9	2.6	.36	.3	.00	.06	.03	1
	10 ISL	16.19	16.19	33.572	24.607	332.5	.033	5.71	101.9							10
1	12	16.19	16.19	33.572	24.607	332.5	.040	5.70	101.7	2.5	.34	.2	.00	.06	.04	12
	20 ISL	16.19	16.19	33.571	24.607	332.8	.066	5.67	101.2							20
1	27	16.19	16.18	33.569	24.606	333.1	.089	5.65	100.8	2.5	.34	.2	.00	.08	.01	27
	30 ISL	16.19	16.18	33.568	24.606	333.3	.100	5.65	100.8							30
1	42	16.18	16.17	33.561	24.603	333.9	.139	5.65	100.8	2.5	.34	.2	.00	.06	.03	42
	50 ISL	16.17	16.16	33.557	24.603	334.2	.167	5.66	101.0							50
1	57	16.16	16.15	33.555	24.604	334.4	.189	5.67	101.1	2.5	.34	.2	.00	.06	.04	57
1	67	16.15	16.14	33.553	24.604	334.6	.223	5.66	100.9	2.6	.34	.2	.00	.06	.03	67
	75 ISL	16.14	16.12	33.554	24.608	334.5	.250	5.67	101.0							76
1	78	16.13	16.12	33.555	24.610	334.4	.259	5.67	101.0	2.5	.34	.2	.00	.06	.04	78
1	93	16.10	16.09	33.553	24.616	334.3	.309	5.67	101.0	2.6	.34	.2	.00	.07	.03	93
	100 ISL	15.82	15.80	33.527	24.661	330.3	.334	5.63	99.7							101
1	108	15.37	15.35	33.503	24.741	322.7	.358	5.55	97.4	2.9	.39	.3	.03	.13	.13	108
1	122	14.13	14.12	33.521	25.021	296.3	.405	5.24	89.7	4.6	.56	2.4	.07	.12	.12	123
	125 ISL	13.95	13.93	33.525	25.061	292.9	.412	5.20	88.7							126
1	148	12.48	12.47	33.525	25.355	266.9	.477	4.76	78.7	8.4	.90	8.2	.02	.08	.13	149
	150 ISL	12.40	12.38	33.533	25.378	262.7	.481	4.71	77.7							151
1	168	11.45	11.43	33.636	25.635	238.4	.527	4.12	66.7	14.2	1.25	14.3	.01	.03	.04	169
1	189	10.59	10.57	33.722	25.857	217.7	.575	3.77	59.9	19.1	1.51	18.4	.00			190
	200 ISL	10.17	10.15	33.769	25.966	207.3	.598	3.62	57.0							202
1	209	9.85	9.82	33.809	26.052	199.2	.616	3.50	54.8	23.5	1.67	21.6	.00			210
1	240	9.02	9.00	33.950	26.297	176.3	.674	3.08	47.4	30.0	1.90	25.2	.00			241
	250 ISL	8.81	8.79	33.981	26.354	171.0	.692	2.97	45.5							252
1	280	8.33	8.30	34.049	26.482	159.2	.740	2.66	40.3	37.4	2.10	28.3	.00			281
	300 ISL	8.09	8.06	34.092	26.552	152.8	.772	2.32	35.0							302
1	341	7.71	7.68	34.158	26.660	143.1	.833	1.66	24.5	49.0	2.52	32.9	.00			343
	400 ISL	7.25	7.21	34.207	26.765	133.8	.915	1.09	16.1							403
1	418	7.13	7.09	34.216	26.789	131.7	.938	.98	14.5	59.4	2.81	36.3	.00			420
1	494	6.60	6.55	34.266	26.902	121.7	1.035	.64	9.3	68.0	2.96	38.5	.00			497
	500 ISL	6.55	6.50	34.269	26.910	121.0	1.042	.62	9.0							504
1	570	5.95	5.90	34.291	26.997	113.0	1.124	.45	6.5	78.5	3.07	41.3	.00			574

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 97 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 56.4 N	121 50.0 W	02/27/84	0720 GMT		020	09 KT		2	1018.8 MB	15.8 C	13.2 C	8/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.70	16.70	33.660	24.557	337.0	.000	5.64	101.7	2.7	.33	.3	.00	.06	.02	0
1	10	16.70	16.70	33.659	24.556	337.4	.034	5.69	102.6	2.8	.33	.3	.00	.06	.03	10
	20 ISL	16.70	16.70	33.657	24.555	337.8	.067	5.67	102.2							20
1	26	16.70	16.70	33.656	24.555	338.1	.087	5.64	101.7	2.7	.33	.3	.00	.06	.03	26
	30 ISL	16.70	16.70	33.655	24.555	338.2	.101	5.63	101.5							30
1	41	16.68	16.67	33.651	24.557	338.3	.138	5.61	101.1	2.8	.33	.3	.00	.06	.03	41
	50 ISL	16.64	16.63	33.644	24.562	338.2	.169	5.63	101.4							50
1	57	16.58	16.57	33.632	24.566	337.9	.192	5.65	101.6	2.5	.32	.3	.00	.07	.05	57
1	67	16.42	16.41	33.603	24.580	337.0	.225	5.64	101.1	2.8	.35	.3	.00	.07	.04	67
	75 ISL	16.43	16.41	33.603	24.580	337.2	.253	5.66	101.4							76
1	77	16.43	16.42	33.603	24.579	337.3	.259	5.66	101.5	2.8	.32	.3	.00	.06	.03	77
1	92	16.37	16.35	33.591	24.585	337.3	.309	5.66	101.3	2.8	.35	.3	.01	.06	.04	92
	100 ISL	16.34	16.33	33.588	24.588	337.3	.338	5.66	101.4							101
1	108	16.32	16.30	33.584	24.591	337.2	.363	5.67	101.4	2.7	.35	.3	.01	.07	.03	108
1	123	14.37	14.35	33.505	24.959	302.2	.411	5.32	91.5	4.8	.54	1.9	.07	.16	.14	123
	125 ISL	14.14	14.13	33.514	25.013	298.2	.418	5.26	90.1							126
1	148	12.56	12.54	33.515	25.333	266.9	.485	4.68	77.5	8.8	.94	8.5	.02	.06	.11	149
	150 ISL	12.46	12.44	33.522	25.359	264.6	.489	4.63	76.6							151
1	168	11.39	11.37	33.624	25.638	238.1	.535	4.10	66.3	14.6	1.28	14.5	.02	.03	.04	169
1	189	10.41	10.39	33.788	25.940	209.7	.581	3.48	55.1	21.5	1.64	19.9	.02			190
	200 ISL	10.05	10.03	33.836	26.039	200.4	.604	3.35	52.7							202
1	209	9.82	9.80	33.873	26.107	194.1	.622	3.26	51.0	25.6	1.78	22.5	.02			210
1	240	9.39	9.36	34.099	26.354	171.1	.678	2.38	36.9	32.6	2.10	26.5	.01			241
	250 ISL	9.26	9.24	34.132	26.401	166.9	.695	2.23	34.5							252
1	283	8.84	8.81	34.170	26.499	157.9	.748	1.94	29.7	39.1	2.30	29.2	.00			284
	300 ISL	8.52	8.49	34.163	26.543	153.4	.775	1.84	28.0							302
1	344	7.74	7.70	34.160	26.658	143.3	.840	1.62	24.2	49.0	2.52	32.5	.00			346
	400 ISL	7.15	7.12	34.198	26.771	133.1	.918	1.13	16.6							403
1	421	6.99	6.95	34.215	26.807	129.9	.945	.94	13.8	60.9	2.81	36.5	.00			423
1	500	6.28	6.23	34.259	26.938	118.1	1.043	.51	7.4	72.8	3.02	39.5	.00			503
1	578	5.87	5.82	34.292	27.016	111.3	1.133	.38	5.4	80.4	3.11	41.2	.01			582

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 29.2

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 42.5 N	116 43.4 W	03/17/84	0647 GMT	33 M	030	06 KT	300 05 06	1	1020.3 MB	14.9 C	12.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	14.00	14.00	33.520	25.044	290.6	.000	5.77	98.5	7.5	.63	3.8	.14	.94	.38	0
1	10	13.31	13.30	33.517	25.184	277.5	.028	5.14	86.5	9.0	.77	5.9	.28	.82	.59	10
1	20	12.41	12.40	33.549	25.386	258.6	.055	4.46	73.7	12.0	1.00	10.2	.19	.63	.45	20
1	30	11.94	11.93	33.594	25.510	247.0	.080	4.11	67.2	15.0	1.15	13.0	.06	.31	.27	30

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 100 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 41.2 N	116 46.6 W	03/17/84	0351 GMT	411 M	350	12 KT	300 05 06	0	1019.3 MB	16.7 C	14.3 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	14.72	14.72	33.501	24.877	306.6	.000	5.98	103.6							0
1	1	14.72	14.72	33.501	24.877	306.5	.003	5.98	103.6	5.0	.42	1.0	.04	1.43	.21	1
	10 ISL	14.62	14.68	33.518	24.899	302.4	.030	5.97	103.3							10
1	12	14.49	14.49	33.519	24.941	300.7	.036	5.91	101.9	6.0	.53	2.7	.08	1.04	.33	12
	20 ISL	13.95	13.95	33.512	25.049	290.7	.060	5.62	95.9							20
1	22	13.80	13.79	33.511	25.080	287.8	.066	5.52	93.8	7.0	.63	4.3	.12	1.07	.32	22
	30 ISL	13.09	13.09	33.522	25.231	273.6	.088	4.87	81.6							30
1	31	13.01	13.01	33.524	25.248	272.0	.091	4.80	80.3	10.0	.85	7.6	.21	1.04	.27	31
1	42	12.08	12.07	33.567	25.463	251.8	.119	4.24	69.5	13.1	1.08	11.8	.06	.29	.21	42
	50 ISL	11.61	11.61	33.616	25.588	240.1	.140	4.00	65.0							50
1	51	11.58	11.57	33.620	25.597	239.2	.141	3.98	64.6	15.6	1.25	14.3	.01	.14	.14	51
1	62	11.29	11.28	33.668	25.688	230.8	.167	3.66	59.1	19.1	1.35	16.1	.00	.08	.15	62
1	72	10.99	10.98	33.717	25.781	222.2	.190	3.58	57.4	20.6	1.45	17.7	.00	.05	.12	72
	75 ISL	10.91	10.90	33.732	25.807	219.8	.197	3.54	56.6							76
1	87	10.68	10.67	33.777	25.882	212.9	.222	3.36	53.5	22.6	1.57	19.6	.00	.04	.09	87
	100 ISL	10.48	10.46	33.816	25.948	206.9	.250	3.16	50.2							101
1	101	10.45	10.44	33.820	25.956	206.3	.253	3.14	49.8	24.2	1.66	20.8	.00	.03	.08	102
	125 ISL	9.95	9.93	33.912	26.115	191.6	.300	2.73	42.8							126
1	146	9.50	9.48	33.991	26.251	179.0	.339	2.40	37.3	31.2	1.93	25.4	.00	.01	.05	147
	150 ISL	9.44	9.43	33.999	26.266	177.6	.346	2.36	36.6							151
1	174	9.14	9.12	34.037	26.345	170.5	.388	2.19	33.8	34.8	2.07	27.0	.00			175
	200 ISL	8.87	8.85	34.067	26.412	164.5	.431	2.22	34.1							202
1	204	8.83	8.81	34.071	26.422	163.7	.438	2.23	34.2	37.3	2.16	28.3	.00			205
1	232	8.51	8.49	34.093	26.488	157.9	.483	2.14	32.6	40.3	2.23	29.5	.00			233
	250 ISL	8.26	8.23	34.117	26.546	152.5	.511	2.01	30.5							252
1	269	7.99	7.96	34.140	26.604	147.2	.539			45.9	2.37	31.9	.00			270
	300 ISL	7.61	7.58	34.155	26.672	141.2	.584	1.40	20.6							302
1	319	7.41	7.40				.611			31.3	1.94	25.0	.00			322
1	379	6.99	6.95	34.190	26.779	131.9	.691			55.5	2.72	36.1	.00			381

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 100 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 31.2 N	117 06.9 W	03/16/84	2211 GMT	1259 M	330	18 KT	300 05 06	1	1020.7 MB	16.8 C	14.2 C	6/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.95	15.95	33.478	24.588	334.0	.000	5.88	104.4	2.3	.32	.2	.00	.17	.03	0
	10 ISL	15.95	15.95	33.478	24.589	334.0	.033	6.09	104.7							10
1	11	15.93	15.93	33.475	24.592	333.9	.037	6.09	108.1	2.4	.30	.1	.00	.15	.04	11
	20 ISL	15.91	15.91	33.463	24.587	333.6	.067	5.95	105.5							20
1	21	15.72	15.71	33.460	24.629	330.8	.070	5.93	104.8	2.5	.32	.1	.00	.19	.05	21
	30 ISL	14.70	14.70	33.403	24.807	314.0	.099	5.85	101.5							30
1	31	14.58	14.58	33.400	24.830	311.9	.102	5.84	100.8	3.2	.32	.0	.00	.24	.12	31
1	40	13.63	13.63	33.454	25.070	289.2	.129	5.51	93.3	5.0	.56	2.5	.17	.71	.41	40
	50 ISL	13.12	13.11	33.469	25.186	278.5	.159	5.29	88.7							50
1	51	13.09	13.08	33.470	25.192	277.9	.160	5.27	88.2	7.6	.73	5.4	.34	.73	.40	51
1	61	12.50	12.49	33.512	25.341	264.0	.187	4.63	76.6	10.7	.93	9.1	.32	.46	.30	61
1	71	11.85	11.84	33.550	25.494	249.5	.212	4.32	70.5	13.6	1.06	12.1	.10	.16	.32	71
	75 ISL	11.53	11.52	33.584	25.579	241.5	.223	4.16	67.4							76
1	87	10.79	10.78	33.682	25.788	221.8	.250	3.76	60.0	18.1	1.39	17.8	.02	.06	.13	87
	100 ISL	10.45	10.44	33.754	25.905	211.0	.279	3.50	55.5							101
1	102	10.42	10.41	33.760	25.914	210.2	.282	3.48	55.1	20.8	1.56	20.1	.01	.02	.06	102
1	121	10.02	10.00	33.833	26.041	198.5	.323	3.24	50.9	23.5	1.75	22.4	.01	.01	.07	122
	125 ISL	9.94	9.93	33.848	26.065	196.3	.330	3.19	50.0							126
1	146	9.53	9.51	33.932	26.199	183.9	.370	2.91	45.3	27.0	1.87	24.7	.01			147
	150 ISL	9.47	9.45	33.944	26.218	182.1	.377	2.88	44.7							151
1	176	9.09	9.07	34.006	26.329	172.0	.423	2.71	41.7	30.8	2.00	26.6	.00			177
	200 ISL	8.76	8.74	34.047	26.414	164.4	.463	2.50	38.3							202
1	207	8.68	8.65	34.056	26.433	162.6	.475	2.45	37.4	34.8	2.10	28.2	.01			208
1	236	8.42	8.40	34.080	26.492	157.5	.521	2.32	35.2	37.5	2.17	29.2	.00			237
	250 ISL	8.23	8.20	34.093	26.531	153.9	.543	2.20	33.3							252
1	275	7.99	7.96	34.115	26.599	147.8	.581	1.97	29.6	44.3	2.38	31.7	.00			277
	300 ISL	7.73	7.70	34.125	26.631	145.1	.617	1.82	27.3							302
1	334	7.56	7.53	34.145	26.671	141.8	.666	1.60	23.8	49.8	2.52	33.6	.00			336
	400 ISL	6.98	6.94	34.261	26.845	125.9	.754	.77	11.4							403
1	408	6.89	6.85	34.276	26.870	123.7	.765	.67	9.8	65.1	2.90	37.8	.00			411
1	482	5.94	5.90	34.317	27.026	109.1	.850	.36	5.2	81.6	3.11	41.3	.00			485
	500 ISL	5.72	5.68	34.325	27.060	107.0	.870	.33	4.7							504
1	557	5.65	5.60	34.346	27.086	104.1	.930	.32	4.6	88.1	3.21	42.4	.00			561

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 21.4 N	117 27.3 W	03/16/84	1734 GMT	1860 M	320 09 KT	310 05 08	1	1022.4 MB	16.2 C	13.2 C	6/8	AS

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	16.04	16.04	33.473	24.565	336.3	.000	5.76	102.4							0
1	1		16.04	16.04	33.473	24.565	336.3	.003	5.76	102.4	5.0	.29	.1	.00	.12	.10	1
	10	ISL	16.01	16.01	33.472	24.571	336.0	.034	5.90	104.9							10
1	11		16.01	16.01	33.472	24.571	335.9	.037	5.91	105.0	4.6	.28	.1	.00	.13	.02	11
	20	ISL	15.99	15.99	33.471	24.574	336.0	.067	5.90	104.8							20
1	22		15.99	15.99	33.470	24.574	336.0	.074	5.85	103.9	4.1	.28	.0	.00	.12	.02	22
	30	ISL	15.99	15.99	33.470	24.575	336.1	.101	5.80	103.0							30
1	32		15.99	15.99	33.470	24.575	336.3	.107	5.79	102.8	4.0	.24	.0	.00	.13	.03	32
1	41		15.89	15.88	33.467	24.597	334.5	.137	5.82	103.2	3.7	.28	.0	.00	.14	.03	41
	50	ISL	15.38	15.37	33.446	24.693	325.6	.167	5.82	102.1							50
1	52		15.24	15.24	33.440	24.719	323.1	.173	5.83	102.0	3.8	.31	.0	.00	.20	.10	52
1	62		14.31	14.30	33.395	24.885	307.5	.205	5.62	96.5	3.4	.41	.7	.08	.61	.35	62
1	71		13.51	13.50	33.420	25.070	290.1	.231	5.19	87.6	4.9	.58	3.7	.10			71
	75	ISL	13.23	13.22	33.428	25.132	284.3	.244	5.08	85.3							76
1	87		12.60	12.59	33.455	25.278	270.6	.276	4.86	80.5	7.2	.77	7.4	.04	.22	.22	87
	100	ISL	11.79	11.78	33.525	25.486	251.1	.311	4.48	73.1							101
1	102		11.70	11.69	33.534	25.509	248.9	.315	4.44	72.2	11.2	1.04	11.8	.02			102
1	121		10.96	10.95	33.612	25.704	230.6	.362	4.07	65.2	14.6	1.24	15.5	.01	.04	.06	122
	125	ISL	10.79	10.77	33.638	25.755	225.9	.371	3.97	63.3							126
1	146		9.80	9.79	33.805	26.055	197.6	.416	3.33	52.1	23.2	1.65	22.0	.00	.01	.03	147
	150	ISL	9.68	9.67	33.831	26.096	193.8	.423	3.25	50.6							151
1	176		9.13	9.11	33.980	26.303	174.5	.471	2.80	43.2	30.9	1.93	26.0	.00			177
	200	ISL	8.98	8.96	34.035	26.369	168.7	.512	2.56	39.4							202
1	206		8.96	8.94	34.042	26.378	168.0	.522	2.52	38.7	33.7	2.05	27.3	.00			207
1	235		8.58	8.55	34.082	26.470	159.6	.569	2.31	35.2	37.7	2.17	28.9	.00			236
	250	ISL	8.24	8.22	34.091	26.529	154.3	.593	2.19	33.2							252
1	274		7.70	7.67	34.104	26.618	145.9	.630	1.97	29.4	46.7	2.36	31.9	.00			276
	300	ISL	7.33	7.30	34.134	26.696	138.7	.666	1.62	24.0							302
1	333		6.98	6.95	34.175	26.776	131.4	.711	1.17	17.2	59.1	2.69	36.0	.00			335
	400	ISL	6.54	6.51	34.222	26.873	123.0	.796	.75	10.9							403
1	407		6.51	6.48	34.227	26.881	122.3	.805	.72	10.5	68.9	2.91	38.5	.00			410
1	482		6.17	6.13	34.301	26.984	113.3	.893	.40	5.8	77.7	3.07	40.1	.00			485
	500	ISL	6.07	6.02	34.315	27.008	111.2	.913	.35	5.1							504
1	554		5.69	5.65	34.343	27.078	104.9	.972	.28	4.0	86.6	3.17	41.8	.00			558

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 11.2 N	117 47.2 W	03/16/84	1252 GMT	1703 M	340 17 KT		1	1020.7 MB	15.1 C	12.2 C	5/8	AS

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	15.92	15.92	33.460	24.583	334.2	.000	5.80	102.9							0
1	2		15.92	15.92	33.460	24.583	334.5	.007	5.80	102.9	2.6	.28	.0	.00	.17	.02	2
1	10		15.94	15.94	33.457	24.575	335.6	.033	5.95	105.6	2.8	.27	.0	.00	.15	.04	10
1	20		15.94	15.94	33.457	24.575	335.9	.067	5.86	104.0	2.4	.25	.0	.00	.15	.04	20
	30	ISL	15.94	15.94	33.457	24.576	335.9	.101	5.79	102.8							30
1	31		15.93	15.92	33.455	24.578	336.0	.104	5.79	102.7	2.3	.25	.0	.00	.16	.03	31
1	41		15.63	15.63	33.417	24.615	332.7	.137	5.83	102.8	2.4	.27	.0	.00	.20	.07	41
	50	ISL	15.28	15.27	33.401	24.681	326.7	.167	5.88	102.8							50
1	52		15.19	15.18	33.397	24.698	325.1	.173	5.88	102.7	2.6	.28	.0	.00	.24	.10	52
1	62		14.36	14.35	33.353	24.842	311.6	.205	5.81	99.8	3.1	.33	.0	.01	.57	.23	62
1	71		13.80	13.79	33.384	24.983	298.4	.232	5.43	92.2	4.5	.49	2.1	.12	.39	.29	71
	75	ISL	13.53	13.52	33.395	25.047	292.4	.245	5.28	89.2							76
1	87		12.82	12.81	33.437	25.217	276.5	.278	4.93	82.1	6.9	.75	6.4	.27	.22	.28	87
	100	ISL	12.11	12.10	33.510	25.414	258.0	.313	4.54	74.4							101
1	101		12.09	12.07	33.513	25.421	257.3	.315	4.52	74.1	10.1	.96	10.3	.08	.19	.26	101
1	121		11.32	11.30	33.613	25.642	236.7	.367	4.03	65.0	14.2	1.22	14.6	.02	.12	.13	122
	125	ISL	11.15	11.13	33.638	25.692	232.0	.375	3.92	63.1							126
1	146		10.20	10.18	33.780	25.969	205.9	.422	3.36	53.0	22.1	1.62	20.7	.00	.01	.05	147
	150	ISL	10.10	10.08	33.795	25.998	203.2	.429	3.32	52.2							151
1	174		9.61	9.60	33.866	26.135	190.6	.477	3.14	48.9	26.4	1.76	23.3	.00			175
	200	ISL	9.16	9.13	33.943	26.269	178.2	.524	2.90	44.8							202
1	206		9.06	9.03	33.959	26.298	175.6	.535	2.85	43.9	30.6	1.91	25.9	.00			207
1	235		8.58	8.55	34.030	26.429	163.5	.584	2.61	39.8	35.3	2.07	28.0	.00			236
	250	ISL	8.30	8.28	34.054	26.490	157.9	.608	2.43	36.9							252
1	273		7.91	7.88	34.080	26.569	150.7	.643	2.16	32.4	43.4	2.26	30.9	.00			274
	300	ISL	7.51	7.49	34.103	26.644	143.7	.683	1.86	27.6							302
1	332		7.14	7.13				.729									335
	400	ISL	6.69	6.66	34.173	26.814	128.7	.819	1.00	14.6							403
1	406		6.66	6.62	34.177	26.822	128.0	.827	.96	14.0	64.5	2.79	37.4	.00			409
1	481		6.20	6.16	34.222	26.918	119.5	.919	.63	9.1	73.5	3.00	39.8	.00			484
	500	ISL	6.09	6.05	34.240	26.946	117.1	.942	.55	8.0							504
1	556		5.79	5.74	34.303	27.034	109.1	1.005	.35	5.0	83.8	3.14	41.4	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 01.0 N	118 07.3 W	03/16/84	0810 GMT	1670 M	340	18 KT	310 06 06	1	1021.3 MB	16.6 C	13.9 C	5/8	CC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.93	15.93	33.418	24.548	337.7	.000	5.82	103.2							0
1	1	15.93	15.93	33.418	24.548	337.8	.003	5.82	103.2	2.9	.31	.1	.00	.11	.00	1
	10 ISL	15.94	15.94	33.415	24.543	338.6	.034	6.05	107.4							10
1	12	15.94	15.94	33.415	24.543	338.7	.040	6.07	107.7	2.8	.28	.0	.00	.11	.00	12
	20 ISL	15.94	15.94	33.415	24.544	338.8	.068	5.97	105.9							20
1	26	15.93	15.93	33.415	24.545	338.9	.088	5.86	103.9	2.9	.27	.0	.00	.11	.01	26
	30 ISL	15.77	15.77	33.403	24.572	336.5	.102	5.88	103.5							30
1	41	15.23	15.23	33.367	24.665	328.0	.138	5.89	103.0	3.0	.28	.0	.00	.17	.02	41
	50 ISL	14.86	14.85	33.352	24.735	321.5	.167	5.89	102.2							50
1	56	14.60	14.60	33.351	24.788	316.6	.186	5.89	101.7	3.3	.31	.0	.00	.25	.07	56
1	67	14.00	13.99	33.375	24.934	303.0	.220	5.73	97.7	3.7	.38	.4	.02	.70	.25	67
	75 ISL	13.78	13.77	33.418	25.013	295.6	.244	5.58	94.7							76
1	76	13.75	13.74	33.421	25.021	294.9	.246	5.56	94.4	4.2	.44	1.6	.05	.52	.29	76
1	91	12.41	12.40	33.440	25.303	268.3	.288	5.02	82.8	7.2	.71	6.6	.02	.21	.15	91
	100 ISL	12.00	11.99	33.446	25.385	260.8	.313	4.98	79.8							101
1	106	11.80	11.78	33.457	25.432	256.3	.328	4.79	78.0	9.0	.87	9.2	.01	.14	.09	106
1	120	10.82	10.81	33.586	25.709	230.1	.364	4.22	67.4	14.5	1.20	14.9	.01	.04	.05	121
	125 ISL	10.60	10.58	33.619	25.774	224.0	.374	4.11	65.3							126
1	145	9.95	9.93	33.748	25.987	204.2	.418	3.72	58.3	21.2	1.50	19.8	.01	.01	.04	146
	150 ISL	9.91	9.89	33.779	26.017	201.3	.427	3.61	56.5							151
1	166	9.75	9.73	33.866	26.112	192.6	.459	3.33	52.0	24.6	1.68	22.3	.00	.00	.02	167
1	185	9.05	9.03	33.906	26.257	179.0	.494	3.43	52.8	27.9	1.73	23.7	.00			186
	200 ISL	8.84	8.82	33.952	26.326	172.7	.520	3.08	47.2							202
1	206	8.80	8.78	33.970	26.347	170.9	.531	2.92	44.7	32.2	1.93	26.1	.00			207
1	236	8.35	8.32	34.028	26.462	160.3	.580	2.67	40.5	37.0	2.05	28.1	.00			237
	250 ISL	8.18	8.15	34.050	26.506	156.3	.603	2.51	37.8							252
1	274	7.91	7.89	34.082	26.570	150.5	.640	2.21	33.2	43.2	2.25	30.5	.00			276
	300 ISL	7.64	7.61	34.104	26.627	145.4	.678	1.95	29.0							302
1	336	7.26	7.23	34.128	26.700	138.9	.729	1.60	23.7	52.9	2.53	34.0	.00			339
	400 ISL	6.62	6.58	34.175	26.826	127.5	.814	1.00	14.6							403
1	409	6.53	6.49	34.183	26.844	125.8	.826	.92	13.4	66.5	2.82	37.8	.00			412
1	485	5.98	5.93	34.264	26.980	113.5	.916	.46	6.6	79.3	3.06	40.2	.00			489
	500 ISL	5.88	5.84	34.277	27.002	111.6	.934	.37	5.3							504
1	559	5.57	5.53	34.316	27.071	105.4	.998	.35	5.0	88.3	3.15	41.7	.00			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 51.1 N	118 27.5 W	03/16/84	0320 GMT	2576 M	340	18 KT	330 06 08	1	1021.0 MB	16.3 C	13.5 C	3/8	CC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.77	15.77	33.400	24.569	336.6	.000	5.87	103.8							0
1	2	15.77	15.77	33.400	24.569	335.9	.007	5.87	103.5	2.9	.32	.0	.00	.11	.01	2
	10 ISL	15.78	15.77	33.399	24.568	336.0	.034	5.93	104.9							10
1	13	15.78	15.78	33.398	24.566	336.5	.044	5.94	105.0	2.7	.30	.0	.00	.11	.01	13
	20 ISL	15.69	15.69	33.395	24.583	335.1	.067	5.92	104.4							20
1	23	15.65	15.65	33.394	24.593	334.3	.077	5.90	104.1	2.4	.30	.0	.00	.11	.01	23
	30 ISL	15.56	15.56	33.394	24.612	332.6	.101	5.87	103.3							30
1	33	15.53	15.52	33.394	24.620	332.0	.110	5.86	103.1	2.5	.31	.0	.00	.14	.02	33
1	43	15.42	15.42	33.388	24.639	330.5	.143	5.92	103.9	2.3	.30	.0	.00	.16	.00	43
	50 ISL	15.03	15.02	33.388	24.725	322.5	.167	5.95	103.7							50
1	52	14.93	14.92	33.389	24.748	320.4	.172	5.96	103.6	2.3	.31	.0	.00	.20	.05	52
1	63	14.80	14.79	33.390	24.777	317.8	.207	6.01	104.2	2.4	.30	.0	.00	.29	.07	63
1	73	14.05	14.04	33.356	24.909	305.5	.238	5.79	98.8	3.0	.38	.2	.02	.85	.27	73
	75 ISL	13.89	13.88	33.352	24.939	302.7	.245	5.72	97.3							76
1	87	13.11	13.10	33.351	25.097	287.9	.280	5.35	89.6	4.8	.56	3.3	.05	.46	.19	87
	100 ISL	12.20	12.19	33.342	25.297	269.1	.317	4.97	81.7							101
1	102	12.10	12.08	33.389	25.323	266.6	.321	4.93	80.8	7.5	.79	7.7	.02	.18	.16	102
1	121	10.82	10.80	33.571	25.698	231.2	.371	4.29	68.5	14.0	1.16	14.6	.01	.03	.06	122
	125 ISL	10.62	10.61	33.602	25.757	225.7	.379	4.17	66.3							126
1	146	9.68	9.66	33.763	26.042	198.8	.424	3.59	56.0	22.5	1.59	21.4	.01	.01	.02	147
	150 ISL	9.58	9.56	33.783	26.075	195.7	.431	3.48	54.1							151
1	175	9.09	9.07	33.883	26.233	181.1	.479	3.46	53.3	26.6	1.71	23.7	.01			176
	200 ISL	8.74	8.72	33.948	26.339	171.4	.522	3.45	52.7							202
1	205	8.67	8.65	33.958	26.357	169.7	.531	3.39	51.7	30.2	1.78	25.0	.00			206
1	234	8.11	8.08	34.022	26.494	157.1	.578	2.94	44.3	36.5	1.97	28.0	.00			235
	250 ISL	7.88	7.86	34.046	26.546	152.4	.603	2.67	40.1							252
1	274	7.60	7.58	34.068	26.604	147.1	.638	2.31	34.4	44.4	2.23	31.4	.00			275
	300 ISL	7.23	7.20	34.074	26.662	141.9	.676	2.03	30.0							302
1	332	6.81	6.78	34.079	26.723	136.3	.721	1.74	25.5	55.0	2.49	34.8	.00			334
	400 ISL	6.32	6.28	34.149	26.845	125.4	.810	1.01	14.5							403
1	405	6.29	6.26	34.155	26.853	124.7	.816	.96	13.9	68.1	2.81	38.4	.00			407
1	478	6.00	5.96	34.259	26.973	114.1	.903	.49	7.0	77.9	3.01	40.3	.00			481
	500 ISL	5.89	5.85	34.280	27.007	111.6	.928	.39	5.6							504
1	551	5.61	5.57	34.304	27.056	106.8	.984	.35	5.0	86.3	3.11	41.7	.00			555

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 41.2 N	118 47.5 W	03/15/84	2256 GMT	2780 M	330	14 KT	320 06 08	1	1021.7 MB	17.2 C	13.9 C	5/8	CC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.65	15.65	33.373	24.576	334.9	.000	5.88	103.7							0
1	1	15.65	15.65	33.373	24.575	335.2	.003	5.88	103.7	2.7	.31	.0	.00	.09	.02	1
	10 ISL	15.65	15.64	33.373	24.577	335.2	.034	6.03	106.4							10
1	11	15.62	15.62	33.371	24.582	334.9	.037	6.04	106.4	2.7	.31	.0	.00	.09	.02	11
	20 ISL	15.32	15.31	33.379	24.655	328.2	.067	5.99	104.9							20
1	21	15.28	15.28	33.381	24.664	327.5	.070	5.98	104.7	2.4	.32	.0	.00	.15	.02	21
	30 ISL	15.08	15.08	33.392	24.716	322.7	.099	5.98	104.2							30
1	31	15.06	15.05	33.393	24.723	322.1	.102	5.94	103.5	2.1	.31	.0	.00	.19	.02	31
1	41	14.46	14.45	33.381	24.842	311.0	.134	6.05	104.2	1.4	.32	.0	.00	.22	.05	41
	50 ISL	14.32	14.31	33.399	24.887	307.0	.162	6.05	103.8							50
1	51	14.31	14.30	33.401	24.889	306.8	.164	6.01	103.2	1.5	.32	.0	.00	.27	.08	51
1	61	13.99	13.98	33.411	24.963	300.0	.195	5.88	100.3	1.6	.37	.0	.06	.78	.25	61
1	71	13.50	13.49	33.395	25.052	291.9	.224	5.54	93.5	3.4	.50	2.2	.17	.35	.29	71
	75 ISL	13.31	13.30	33.393	25.088	288.7	.236	5.44	91.4							76
1	86	12.71	12.70	33.392	25.207	277.3	.267	5.14	85.3	5.6	.68	5.5	.03	.16	.19	86
1	100	11.35	11.34	33.460	25.515	248.1	.303	4.45	71.8	11.6	1.08	12.5	.01	.09	.09	100
1	119	10.69	10.67	33.552	25.707	230.3	.351	4.11	65.4	15.4	1.28	16.1	.01	.03	.05	120
	125 ISL	10.43	10.41	33.601	25.789	222.5	.363	3.95	62.6							126
1	144	9.59	9.58	33.771	26.063	196.7	.404	3.47	54.0	23.5	1.71	22.2	.00	.00	.03	145
	150 ISL	9.47	9.45	33.798	26.104	192.9	.415	3.42	53.1							151
1	173	9.13	9.11	33.870	26.216	182.7	.458	3.41	52.5	26.9	1.75	23.8	.00			174
	200 ISL	8.71	8.69	33.964	26.356	169.6	.506	2.98	45.5							202
1	201	8.69	8.67	33.966	26.360	169.4	.507	2.96	45.2	32.6	1.90	26.6	.00			202
1	231	8.15	8.13	34.032	26.495	157.0	.556	2.61	39.4	38.6	2.07	29.1	.00			232
	250 ISL	7.88	7.86	34.046	26.546	152.3	.586	2.53	37.9							252
1	271	7.62	7.59	34.051	26.589	148.5	.617	2.45	36.5	44.6	2.21	30.8	.00			272
	300 ISL	7.20	7.17	34.070	26.663	141.7	.659	2.07	30.6							302
1	329	6.83	6.80	34.091	26.730	135.5	.700	1.64	24.0	57.3	2.53	35.3	.00			331
	400 ISL	6.36	6.32	34.141	26.833	126.5	.793	.98	14.1							403
1	403	6.35	6.31	34.143	26.836	126.3	.796			67.3	2.78	38.5	.00			405
1	477	5.81	5.77	34.222	26.968	114.4	.885	.57	8.1	80.3	3.03	41.3	.00			480
	500 ISL	5.69	5.64	34.245	27.000	111.4	.911	.49	6.9							504
1	553	5.49	5.45	34.294	27.063	106.0	.969	.38	5.4	89.1	3.13	42.4	.00			557

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 30.6 N	119 06.3 W	02/28/84	0402 GMT	3635 M	330	06 KT		1	1015.9 MB	15.7 C	13.8 C	2/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.04	15.04	33.377	24.712	323.0	.000	5.90	102.8							0
1	1	15.04	15.04	33.377	24.712	322.2	.003	5.90	102.8	2.6	.35	.0	.00	.12	.06	1
	10 ISL	14.74	14.74	33.369	24.771	316.8	.032	5.94	102.8							10
1	12	14.70	14.70	33.369	24.781	316.0	.038	5.95	102.9	2.6	.33	.0	.00	.13	.07	12
	20 ISL	14.66	14.65	33.372	24.797	315.2	.064	5.95	102.8							20
1	27	14.60	14.60	33.374	24.805	314.2	.085	5.94	102.6	2.6	.33	.0	.00	.15	.08	27
	30 ISL	14.61	14.60	33.375	24.806	314.3	.095	5.94	102.5							30
1	42	14.61	14.60	33.377	24.808	314.3	.132	5.93	102.4	2.6	.33	.0	.00	.15	.08	42
	50 ISL	14.60	14.60	33.382	24.812	314.2	.158	5.92	102.2							50
1	57	14.60	14.59	33.385	24.816	314.0	.179	5.91	102.0	2.6	.37	.0	.01	.24	.11	57
1	67	14.49	14.48	33.385	24.841	311.9	.210	5.89	101.4	2.6	.38	.0	.01	.32	.13	67
	75 ISL	13.95	13.94	33.352	24.927	303.9	.236	5.68	96.8							76
1	77	13.81	13.80	33.345	24.950	301.7	.241	5.63	95.6	3.6	.51	1.3	.10	.27	.22	77
1	92	12.54	12.53	33.348	25.206	277.5	.284	5.14	85.0	7.1	.75	5.6	.04	.12	.20	92
	100 ISL	11.91	11.90	33.384	25.355	263.5	.307	4.87	79.5							101
1	107	11.48	11.47	33.427	25.467	252.9	.324	4.64	75.1	10.9	1.03	10.8	.01	.06	.10	107
1	121	10.79	10.77	33.564	25.698	231.2	.360	3.97	63.3	15.0	1.26	14.5	.01	.04	.07	122
	125 ISL	10.64	10.63	33.588	25.743	227.0	.368	3.92	62.4							126
1	146	9.86	9.84	33.717	25.978	205.0	.414	3.76	58.8	21.6	1.58	20.2	.01	.01	.02	147
	150 ISL	9.73	9.71	33.743	26.019	201.1	.421	3.66	57.1							151
1	166	9.23	9.21	33.849	26.184	185.6	.453	3.20	49.4	27.7	1.84	24.3	.01	.00	.02	167
1	186	8.77	8.75	33.951	26.337	171.3	.488	2.97	45.4	32.3	1.99	26.4	.01			187
	200 ISL	8.67	8.65	33.972	26.369	168.6	.512	2.92	44.5							202
1	206	8.63	8.61	33.975	26.376	167.9	.522	2.91	44.4	33.9	1.99	26.9	.01			207
1	236	8.03	8.01	34.021	26.504	156.2	.570	2.88	43.3	38.6	2.08	28.3	.01			237
	250 ISL	7.85	7.82	34.019	26.530	153.6	.592	2.86	42.8							252
1	275	7.56	7.54	34.018	26.570	150.3	.631	2.74	40.8	40.7	2.13	29.2	.01			277
	300 ISL	7.25	7.22	34.037	26.630	144.8	.667	2.38	35.2							302
1	337	6.82	6.78	34.076	26.720	136.6	.719	1.76	25.7	56.0	2.55	35.0	.00			339
	400 ISL	6.39	6.36	34.118	26.811	128.7	.803	1.20	17.3							403
1	411	6.33	6.29	34.125	26.824	127.5	.817	1.12	16.2	66.4	2.78	38.4	.00			414
1	488	5.73	5.69	34.207	26.965	114.6	.910	.55	7.8	79.2	3.01	41.5	.00			491
	500 ISL	5.57	5.52	34.222	26.997	112.9	.924	.49	7.0							504
1	564	5.54	5.49	34.306	27.068	105.7	.994	.33	4.7	86.2	3.11	42.4	.00			568

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 20.0 N	119 26.1 W	02/28/84	0758 GMT	3805 M	320	12 KT		1	1017.8 MB	15.7 C	13.6 C	1/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.76	15.76	33.470	24.625	330.4	.000	5.75	101.7							0
1	1	15.76	15.76	33.470	24.625	330.5	.003	5.75	101.7	2.6	.34	.1	.00	.06	.03	1
	10 ISL	15.76	15.76	33.469	24.624	331.0	.033	5.76	101.8							10
1	12	15.77	15.76	33.468	24.623	331.0	.040	5.76	101.9	2.6	.35	.1	.00	.05	.04	12
	20 ISL	15.74	15.74	33.467	24.629	330.8	.066	5.78	102.2							20
1	27	15.70	15.70	33.462	24.634	330.5	.089	5.80	102.4	2.5	.35	.1	.00	.06	.05	27
	30 ISL	15.67	15.66	33.454	24.635	330.5	.099	5.80	102.3							30
1	42	15.54	15.53	33.422	24.639	330.4	.138	5.78	101.7	2.6	.35	.1	.00	.07	.03	42
	50 ISL	15.48	15.47	33.418	24.650	330.0	.165	5.79	101.7							50
1	57	15.45	15.44	33.414	24.653	329.8	.188	5.79	101.7	2.5	.35	.1	.00	.11	.04	57
1	68	15.46	15.45	33.427	24.662	329.1	.224	5.77	101.4	2.7	.36	.0	.00	.13	.05	68
	75 ISL	15.57	15.56	33.461	24.663	329.2	.248	5.75	101.4							76
1	78	15.59	15.58	33.462	24.661	329.5	.257	5.75	101.3	2.7	.36	.0	.00	.12	.05	78
1	93	14.78	14.76	33.393	24.785	318.0	.305	5.75	99.6	3.5	.41	.3	.05	.16	.13	93
	100 ISL	14.24	14.23	33.460	24.950	302.5	.328	5.50	94.4							101
1	108	13.67	13.66	33.539	25.130	285.5	.350	5.20	88.2	5.4	.63	3.7	.05	.10	.13	108
1	123	12.59	12.58	33.555	25.357	264.0	.394	4.77	79.1	8.3	.89	8.0	.03	.07	.10	124
	125 ISL	12.50	12.48	33.561	25.380	261.9	.398	4.75	78.6							126
1	148	11.19	11.16	33.654	25.699	231.8	.455	4.57	73.6	12.8	1.12	12.3	.01	.02	.05	149
	150 ISL	11.10	11.08	33.657	25.716	230.2	.459	4.55	73.2							151
1	169	10.27	10.25	33.704	25.897	213.2	.502	4.26	67.2	17.5	1.35	16.6	.01	.01	.03	170
1	190	9.54	9.52	33.808	26.102	194.0	.544	3.59	55.8	24.4	1.72	22.0	.00			191
	200 ISL	9.27	9.25	33.850	26.178	186.9	.563	3.34	51.6							202
1	210	9.04	9.02	33.886	26.244	180.8	.581	3.15	48.6	29.6	1.83	25.2	.00			211
1	241	8.46	8.43	33.971	26.401	166.2	.635	3.11	47.2	33.5	1.92	26.6	.00			242
	250 ISL	8.29	8.26	33.985	26.438	162.8	.650	3.10	46.9							252
1	282	7.73	7.70	34.021	26.549	152.6	.701	2.95	44.1	41.0	2.04	28.8	.00			284
	300 ISL	7.50	7.47	34.040	26.597	148.2	.728	2.66	39.5							302
1	345	7.02	6.99	34.084	26.699	138.9	.792	1.79	26.3	54.2	2.48	34.7	.00			347
	400 ISL	6.53	6.50	34.134	26.805	129.3	.866	1.18	17.2							403
1	421	6.36	6.33	34.153	26.842	126.0	.893	1.02	14.8	67.1	2.80	38.6	.00			424
1	500	5.79	5.75	34.214	26.964	115.0	.988	.58	8.3	77.9	3.00	41.3	.00			503
1	579	5.58	5.53	34.303	27.061	106.7	1.076	.38	5.4	85.1	3.10	42.4	.00			583

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 02.5 N	120 07.5 W	02/28/84	1339 GMT	3754 M	330	11 KT		1	1017.2 MB	15.3 C	13.2 C	1/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.03	16.03	33.521	24.605	332.3	.000	5.75	102.3							0
1	1	16.03	16.03	33.521	24.605	332.5	.003	5.75	102.3	2.5	.33	.2	.00	.07	.04	1
	10 ISL	16.05	16.05	33.519	24.598	333.3	.033	5.89	104.8							10
1	12	16.05	16.05	33.519	24.598	333.4	.040	5.90	105.0	2.4	.34	.2	.00	.06	.03	12
	20 ISL	16.04	16.04	33.519	24.600	333.4	.067	5.84	103.9							20
1	27	16.03	16.03	33.519	24.604	333.4	.090	5.75	102.3	2.5	.33	.2	.00			27
	30 ISL	16.03	16.03	33.518	24.603	333.5	.100	5.73	101.9							30
1	42	16.04	16.03	33.515	24.600	334.2	.139	5.70	101.4	2.5	.32	.2	.00	.07	.03	42
	50 ISL	16.03	16.02	33.515	24.601	334.3	.167	5.71	101.6							50
1	57	16.03	16.02	33.515	24.603	334.4	.189	5.72	101.7	2.4	.32	.2	.00	.08	.04	57
1	67	16.01	16.00	33.519	24.610	334.0	.223	5.69	101.1	2.5	.33	.2	.00	.09	.05	67
	75 ISL	16.01	16.00	33.519	24.609	334.4	.250	5.73	101.9							76
1	77	16.01	16.00	33.519	24.609	334.5	.256	5.74	102.0	2.5	.32	.2	.00	.09	.05	77
1	93	16.01	16.00	33.515	24.607	335.1	.309	5.71	101.5	2.7	.32	.2	.00	.10	.05	93
	100 ISL	15.71	15.69	33.482	24.651	331.2	.334	5.68	100.4							101
1	108	15.24	15.22	33.463	24.739	322.9	.359	5.66	99.0	3.1	.38	.3	.05	.21	.19	108
1	122	14.01	13.99	33.579	25.091	299.6	.406	5.37	91.7	4.3	.50	2.1	.07	.12	.16	123
	125 ISL	13.79	13.77	33.569	25.130	285.1	.412	5.29	89.9							126
1	147	12.03	12.02	33.568	25.475	253.4	.472	4.53	74.2	10.8	1.03	10.5	.02	.06	.07	148
	150 ISL	11.91	11.89	33.574	25.504	250.6	.478	4.47	73.1							151
1	168	11.23	11.21	33.644	25.683	233.9	.523	4.11	66.2	15.2	1.30	14.9	.00	.03	.04	169
1	188	10.68	10.65	33.770	25.879	215.5	.567	3.56	56.7	20.3	1.58	19.3	.00			189
	200 ISL	10.25	10.22	33.842	26.010	203.3	.592	3.29	51.9							202
1	209	9.93	9.90	33.888	26.101	194.7	.610	3.13	49.1	25.7	1.81	22.9	.00			210
1	239	9.26	9.23	33.960	26.267	179.2	.666	3.03	46.8	29.6	1.91	24.8	.00			240
	250 ISL	9.07	9.04	33.994	26.325	174.0	.686	2.91	44.7							252
1	280	8.64	8.61	34.077	26.456	161.8	.735	2.50	38.1	36.9	2.15	27.9	.00			281
	300 ISL	8.38	8.35	34.113	26.525	155.6	.768	2.24	34.0							302
1	340	7.91	7.87	34.153	26.627	146.3	.828	1.78	26.7	47.4	2.48	32.1	.00			342
	400 ISL	7.21	7.18	34.174	26.744	135.8	.913	1.30	19.1							403
1	417	7.04	7.00	34.176	26.770	133.4	.935	1.19	17.5	59.4	2.76	36.3	.00			419
1	493	6.42	6.38	34.218	26.887	122.9	1.033	.75	10.9	69.2	2.95	39.1	.00			496
	500 ISL	6.36	6.32	34.222	26.897	122.0	1.041	.72	10.5							504
1	570	5.82	5.77	34.254	26.992	113.3	1.124	.57	8.2	80.2	3.09	41.5	.00			574

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 40.4 N	120 47.9 W	02/28/84	1950 GMT	3948 M	340	10 KT	310 05 09	1	1017.1 MB	16.4 C	13.7 C	3/8	CU

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	16.41	16.41	33.529	24.524	340.6	.000	5.69	102.0							0
1	1		16.41	16.41	33.529	24.524	340.1	.003	5.69	102.0	2.5	.34	.3	.00	.05	.02	1
	10	ISL	16.24	16.24	33.525	24.561	336.9	.034	5.70	101.7							10
1	12		16.21	16.21	33.525	24.566	336.5	.040	5.70	101.7	2.6	.34	.3	.00	.05	.03	12
	20	ISL	16.20	16.20	33.524	24.568	336.5	.068	5.71	101.9							20
1	27		16.19	16.18	33.523	24.571	336.5	.091	5.72	102.0	2.5	.34	.3	.00	.05	.03	27
	30	ISL	16.19	16.19	33.523	24.570	336.7	.101	5.72	102.0							30
1	42		16.19	16.19	33.522	24.569	337.1	.141	5.70	101.7	2.5	.34	.3	.00	.06	.02	42
	50	ISL	16.18	16.17	33.521	24.573	337.0	.169	5.72	102.0							50
1	57		16.16	16.15	33.520	24.576	336.9	.191	5.73	102.1	2.4	.33	.3	.00	.07	.03	57
1	68		16.15	16.14	33.524	24.583	336.7	.228	5.70	101.6	2.7	.33	.3	.00	.07	.03	68
	75	ISL	16.13	16.12	33.522	24.585	336.8	.253	5.69	101.4							76
1	76		16.13	16.12	33.521	24.585	336.8	.262	5.69	101.4	2.9	.33	.3	.00	.09	.04	78
1	93		16.13	16.12	33.521	24.585	337.3	.312	5.71	101.7	2.9	.33	.3	.00	.12	.04	93
	100	ISL	15.55	15.54	33.526	24.718	324.7	.337	5.65	99.5							101
1	108		14.80	14.79	33.531	24.886	308.8	.361	5.54	96.1	4.0	.45	.7	.04	.23	.20	108
1	124		13.51	13.50	33.508	25.138	285.1	.408	5.17	87.3	5.6	.68	3.8	.04	.10	.20	124
	125	ISL	13.39	13.38	33.510	25.164	282.7	.412	5.12	86.4							126
1	148		11.74	11.72	33.584	25.542	246.9	.474	4.40	71.6	12.0	1.19	12.3	.02	.04	.06	149
	150	ISL	11.65	11.63	33.592	25.565	244.8	.478	4.36	70.8							151
1	169		10.79	10.77	33.705	25.809	221.8	.523	3.88	61.9	17.3	1.47	17.1	.02	.01	.02	170
1	189		10.17	10.15	33.849	26.029	201.2	.565	3.41	53.7	23.6	1.75	21.6	.00			190
	200	ISL	9.92	9.90	33.891	26.104	194.2	.586	3.23	50.7							202
1	210		9.72	9.70	33.921	26.160	189.0	.606	3.09	48.2	26.8	1.85	23.8	.00			211
1	241		9.09	9.06	34.042	26.358	170.6	.661	2.67	41.1	33.1	2.06	26.6	.00			242
	250	ISL	8.93	8.90	34.055	26.394	167.3	.677	2.61	40.1							252
1	282		8.45	8.42	34.073	26.483	159.2	.728	2.44	37.1	38.2	2.19	28.9	.00			283
	300	ISL	8.23	8.20	34.098	26.536	154.5	.757	2.22	33.5							302
1	343		7.77	7.74	34.149	26.644	144.6	.822	1.66	24.8	48.2	2.51	32.7	.00			345
	400	ISL	7.07	7.03	34.161	26.754	134.7	.901	1.24	18.3							403
1	420		6.84	6.80	34.162	26.786	131.7	.927	1.13	16.5	60.6	2.78	37.1	.00			422
1	493		6.26	6.22	34.229	26.916	120.0	1.026	.63	9.1	71.1	3.00	39.8	.00			501
	500	ISL	6.25	6.20	34.231	26.919	119.8	1.028	.62	9.0							504
1	575		5.71	5.66	34.285	27.029	109.8	1.115	.37	5.3	82.0	3.11	41.9	.01			579

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 18.0 N	121 26.3 W	02/29/84	0122 GMT	3957 M	310	13 KT	320 08 14	1	1016.5 MB	16.1 C	12.8 C	7/8	SC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	16.55	16.55	33.589	24.537	339.9	.000	5.70	102.5							0
1	1		16.55	16.55	33.589	24.537	338.9	.003	5.70	102.5	2.5	.29	.3	.00	.06	.03	1
	10	ISL	16.55	16.55	33.581	24.531	339.1	.034	5.69	102.3							10
1	12		16.55	16.55	33.579	24.531	339.8	.041	5.69	102.3	2.5	.30	.3	.00	.06	.02	12
	20	ISL	16.47	16.47	33.572	24.542	339.0	.068	5.68	101.9							20
1	26		16.42	16.41	33.567	24.552	338.3	.088	5.67	101.6	2.4	.29	.3	.00	.06	.03	26
	30	ISL	16.41	16.40	33.564	24.553	338.4	.102	5.67	101.7							30
1	41		16.40	16.40	33.561	24.552	338.8	.138	5.68	101.8	2.4	.30	.3	.00	.06	.02	41
	50	ISL	16.37	16.36	33.557	24.556	338.6	.169	5.68	101.7							50
1	56		16.35	16.34	33.556	24.561	338.4	.189	5.68	101.7	2.4	.30	.3	.00	.07	.04	56
1	66		16.31	16.30	33.553	24.567	338.1	.223	5.67	101.4	2.5	.29	.3	.00	.09	.03	66
	75	ISL	16.31	16.30	33.553	24.567	338.4	.254	5.74	102.6							76
1	76		16.31	16.30	33.552	24.567	338.5	.256	5.74	102.6	2.5	.31	.3	.00	.09	.05	76
1	91		16.31	16.29	33.551	24.568	338.9	.307	5.68	101.6	2.5	.32	.3	.00	.13	.04	91
	100	ISL	15.47	15.45	33.550	24.755	321.6	.338	5.65	99.3							101
1	106		14.90	14.88	33.547	24.878	309.6	.356	5.61	97.5	3.3	.37	.3	.04	.24	.19	106
1	121		14.12	14.10	33.595	25.081	290.5	.400	5.37	91.9	4.3	.49	2.2	.05	.15	.19	121
	125	ISL	13.76	13.74	33.586	25.148	284.2	.413	5.26	89.4							126
1	145		12.11	12.09	33.557	25.452	255.5	.468	4.69	77.0	9.8	.93	9.5	.01	.09	.09	146
	150	ISL	11.83	11.81	33.571	25.515	249.6	.480	4.55	74.2							151
1	165		11.06	11.04	33.645	25.714	230.7	.517	4.08	65.5	15.5	1.29	15.3	.01	.03	.04	166
1	185		10.26	10.24	33.783	25.961	207.5	.560	3.55	56.1	21.5	1.61	20.2	.00			186
	200	ISL	9.68	9.66	33.848	26.110	193.5	.590	3.36	52.5							202
1	205		9.50	9.48	33.866	26.154	189.4	.600	3.32	51.6	26.5	1.76	23.3	.00			206
1	235		8.77	8.75	33.934	26.363	169.8	.653	2.97	45.4	32.5	1.94	26.1	.00			236
	250	ISL	8.60	8.57	34.032	26.477	164.0	.678	2.75	42.0							252
1	275		8.40	8.37	34.088	26.503	157.2	.718	2.40	36.4	39.6	2.17	29.1	.00			276
	300	ISL	8.01	7.98	34.110	26.578	150.3	.757	2.11	31.7							302
1	335		7.48	7.45	34.122	26.664	142.4	.808	1.75	26.0	50.2	2.45	33.3	.00			337
	400	ISL	7.01	6.98	34.191	26.785	131.7	.897	1.08	15.8							403
1	412		6.96	6.92	34.204	26.802	130.2	.912	.97	14.2	61.2	2.77	36.7	.00			414
1	488		6.57	6.52	34.287	26.922	119.7	1.009	.50	7.3	69.8	2.96	39.0	.00			491
	500	ISL	6.50	6.46	34.296	26.938	118.3	1.022	.45	6.6							504
1	564		6.11	6.06	34.326	27.013	111.7	1.096	.32	4.6	77.9	3.10	40.9	.00			568

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 103 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 06.9 N	116 24.5 W	03/17/84	1314 GMT	60 M	320	17 KT	300 05 07	1	1019.3 MB	14.1 C	12.3 C	4/8	CI

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	12.97	12.96	33.545	25.275	268.7	.000	5.04	84.2							0
1	1		12.97	12.96	33.545	25.273	268.8	.003	5.04	84.2	4.3	.94	8.8	.26	.82	.28	1
	10	ISL	12.97	12.97	33.546	25.272	269.1	.027	5.09	85.1							10
1	11		12.98	12.97	33.546	25.272	269.1	.029	5.09	85.1	4.5	.93	8.7	.26	.75	.33	11
	20	ISL	12.97	12.97	33.546	25.273	269.1	.054	5.09	85.0							20
1	21		12.97	12.96	33.545	25.274	269.3	.056	5.05	84.4	4.7	.94	8.8	.25	.81	.31	21
	30	ISL	12.95	12.95	33.545	25.277	269.0	.081	4.86	81.2							30
1	31		12.76	12.76	33.540	25.310	266.1	.083	4.83	80.4	4.1	.90	8.7	.18	.83	.28	31
1	41		11.83	11.83	33.581	25.520	246.3	.109	4.23	69.0	5.2	1.12	12.4	.07	.25	.19	41
	50	ISL	11.37	11.36	33.654	25.663	233.0	.131	3.83	61.9							50
1	51		11.35	11.34	33.662	25.673	232.1	.132	3.80	61.4	7.0	1.26	15.6	.01	.10	.16	51

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 103 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 56.8 N	116 44.7 W	03/17/84	1740 GMT	1710 M	330	19 KT	330 06 06	1	1021.0 MB	17.0 C	14.6 C	1/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D_BAR
	0 ISL	14.83	14.83	33.440	24.806	311.2	.000	5.82	101.0							0
1	2	14.83	14.83	33.440	24.806	313.3	.006	5.82	101.0	2.8	.37	.6	.00	.48	.11	2
	10 ISL	14.81	14.81	33.440	24.811	312.9	.031	5.82	100.9							10
1	12	14.74	14.74	33.440	24.827	311.6	.037	5.81	100.6	3.2	.39	.7	.00	.57	.14	12
	20 ISL	14.51	14.51	33.447	24.881	306.8	.062	5.73	98.9							20
1	24	14.35	14.35	33.454	24.920	303.1	.074	5.67	97.5	4.5	.48	1.8	.05	.78	.19	24
	30 ISL	14.01	14.01	33.480	25.011	294.6	.092	5.51	94.1							30
1	33	13.87	13.86	33.493	25.052	290.9	.101	5.44	92.6	5.8	.61	3.8	.14	.94	.33	33
1	43	13.76	13.75	33.509	25.086	287.8	.130	5.37	91.2	6.4	.66	4.5	.15	1.00	.35	43
	50 ISL	13.08	13.07	33.539	25.224	275.0	.150	4.98	83.4							50
1	52	12.87	12.86	33.508	25.265	271.0	.155	4.86	81.0	7.8	.82	7.4	.20	.42	.31	52
1	62	11.78	11.77	33.572	25.524	246.5	.180	4.30	70.1	11.3	1.08	12.0	.05	.14	.16	62
1	72	11.28	11.27	33.654	25.679	231.9	.204	3.85	62.1	14.9	1.31	15.3	.03	.02	.07	72
	75 ISL	11.14	11.13	33.674	25.721	228.0	.212	3.77	60.6							76
1	86	10.75	10.74	33.722	25.826	218.2	.235	3.61	57.6	17.6	1.46	18.2	.03	.01	.06	86
	100 ISL	10.40	10.38	33.759	25.918	209.6	.266	3.47	55.0							101
1	102	10.36	10.35	33.763	25.927	209.0	.269	3.46	54.8	19.8	1.56	20.1	.02	.01	.04	102
1	119	9.95	9.94	33.869	26.080	194.7	.306	3.11	48.8	24.0	1.73	22.5	.02	.01	.06	120
	125 ISL	9.96	9.95	33.897	26.100	193.0	.316	2.98	46.8							126
1	145	10.06	10.06	33.979	26.145	189.2	.355	2.57	40.5	27.0	1.90	24.2	.02			146
	150 ISL	10.05	10.03	33.997	26.164	187.5	.364	2.50	39.4							151
1	174	9.75	9.73	34.062	26.265	178.3	.408	2.30	36.0	30.5	2.05	26.0	.01			175
	200 ISL	9.26	9.23	34.080	26.361	169.6	.453	2.35	36.4							202
1	202	9.22	9.20	34.081	26.368	169.0	.456	2.36	36.5	32.7	2.08	27.2	.00			203
1	231	8.80	8.78	34.114	26.460	160.6	.504	2.19	33.5	36.6	2.19	28.7	.00			232
	250 ISL	8.64	8.61	34.154	26.517	155.6	.534	1.94	29.5							252
1	270	8.51	8.48	34.196	26.571	150.8	.566	1.64	25.0	43.0	2.39	31.0	.00			272
	300 ISL	8.24	8.21	34.227	26.635	145.1	.609	1.35	20.4							302
1	329	7.96	7.93	34.243	26.690	140.2	.651	1.13	17.0	51.3	2.60	33.3	.00			331
	400 ISL	7.24	7.20	34.272	26.817	128.9	.746	.72	10.6							403
1	402	7.23	7.19	34.272	26.819	128.7	.748	.71	10.5	63.5	2.83	36.1	.00			404
1	475	6.59	6.55	34.310	26.937	118.2	.839	.42	6.1	76.3	2.98	38.5	.00			478
	500 ISL	6.41	6.36	34.320	26.969	115.3	.868	.35	5.1							504
1	550	6.08	6.03	34.335	27.023	110.5	.925	.32	4.6	87.0	3.09	40.5	.00			554

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 103 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 46.9 N	117 04.7 W	03/17/84	2233 GMT	1880 M	320	20 KT	320 05 06	1	1019.3 MB	17.8 C	16.0 C	3/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D_BAR
	0 ISL	15.94	15.94	33.466	24.581	335.2	.000	5.85	103.8							0
1	1	15.94	15.94	33.466	24.581	334.7	.003	5.85	103.8	2.4	.27	.0	.01	.15	.06	1
	10 ISL	15.95	15.95	33.466	24.581	334.8	.033	5.85	103.8							10
1	11	15.95	15.95	33.466	24.580	335.1	.037	5.85	103.8	2.4	.28	.0	.01	.15	.04	11
	20 ISL	15.87	15.87	33.465	24.598	333.7	.067	5.87	104.0							20
1	21	15.86	15.86	33.465	24.600	333.5	.070	5.87	104.0	2.5	.28	.0	.00	.16	.06	21
	30 ISL	15.83	15.82	33.465	24.608	333.4	.100	5.84	103.5							30
1	32	15.82	15.82	33.465	24.609	333.0	.107	5.83	103.2	2.4	.29	.0	.00	.17	.08	32
1	41	15.82	15.81	33.464	24.610	333.2	.136	5.84	103.4	2.2	.28	.0	.00	.19	.09	41
	50 ISL	15.81	15.80	33.464	24.613	333.0	.167	5.84	103.3							50
1	52	15.75	15.74	33.465	24.625	332.1	.173	5.83	103.1	2.4	.29	.0	.00	.22	.11	52
1	62	14.63	14.62	33.432	24.847	311.2	.205	5.67	98.0	3.2	.39	.1	.07	.53	.23	62
1	72	13.77	13.76	33.441	25.032	293.7	.235	5.27	89.5	4.7	.54	2.4	.17	.33	.42	72
	75 ISL	13.58	13.57	33.450	25.079	289.4	.245	5.18	87.5							76
1	89	12.89	12.88	33.498	25.255	273.0	.283	4.86	81.0	7.3	.76	7.0	.08	.12	.22	89
	100 ISL	12.14	12.13	33.547	25.437	255.8	.313	4.61	75.7							101
1	103	11.98	11.97	33.557	25.475	252.2	.320	4.56	74.6	10.7	.97	10.9	.02	.08	.16	103
1	122	11.31	11.30	33.599	25.631	237.7	.368	4.33	69.9	13.0	1.13	13.4	.02	.05	.10	123
	125 ISL	11.20	11.19	33.611	25.661	235.0	.374	4.26	68.7							126
1	147	10.30	10.28	33.743	25.924	210.3	.424	3.63	57.3	20.0	1.49	19.5	.01	.01	.04	148
	150 ISL	10.22	10.20	33.760	25.949	207.9	.430	3.57	56.3							151
1	177	9.64	9.62	33.913	26.167	187.6	.483	3.07	47.9	26.6	1.77	23.9	.00			178
	200 ISL	9.19	9.17	34.006	26.315	174.1	.525	2.74	42.2							202
1	208	9.06	9.04	34.032	26.354	170.3	.538	2.63	40.5	32.2	1.95	26.7	.00			209
1	237	8.80	8.78	34.111	26.458	161.0	.586	2.23	34.2	36.6	2.13	28.8	.00			238
	250 ISL	8.55	8.53	34.113	26.498	157.0	.607	2.16	32.9							252
1	276	7.99	7.97	34.114	26.583	149.4	.648	2.05	30.8	43.4	2.27	31.3	.00			278
	300 ISL	7.57	7.54	34.126	26.655	142.8	.682	1.78	26.5							302
1	338	7.04	7.01	34.160	26.756	133.4	.734	1.28	18.8	57.2	2.62	36.2	.00			340
	400 ISL	6.73	6.70	34.247	26.868	123.7	.814	.71	10.4							403
1	412	6.70	6.66	34.264	26.885	122.2	.829	.63	9.2	66.9	2.91	38.7	.01			415
1	492	6.17	6.13	34.301	26.984	113.4	.923	.44	6.3	77.1	3.01	40.5	.01			495
	500 ISL	6.13	6.08	34.305	26.993	112.7	.932	.43	6.1							504
1	570	5.83	5.78	34.332	27.053	107.7	1.009	.34	4.9	85.3	3.11	41.8	.01			574

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 103 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 36.9 N	117 24.7 W	03/18/84	0315 GMT	2250 M	320	21 KT	320 07 05	1	1019.0 MB	15.6 C	13.5 C	1/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.83	15.82	33.439	24.586	333.8	.000	5.83	103.2							0
1	2	15.83	15.82	33.439	24.588	334.1	.007	5.83	103.2	2.9	.31	.1	.00	.09	.02	2
	10 ISL	15.85	15.85	33.438	24.583	334.9	.033	5.92	104.9							10
1	13	15.85	15.85	33.438	24.581	335.1	.043	5.94	105.2	2.4	.31	.1	.00	.09	.02	13
	20 ISL	15.85	15.85	33.438	24.581	335.4	.067	5.92	104.9							20
1	27	15.85	15.85	33.438	24.582	335.5	.090	5.88	104.1	2.5	.30	.1	.00	.10	.02	27
	30 ISL	15.83	15.82	33.437	24.587	335.4	.100	5.86	103.7							30
1	44	15.82	15.81	33.437	24.589	335.3	.147	5.80	102.7	2.4	.30	.1	.00	.10	.02	44
	50 ISL	15.42	15.42	33.410	24.656	329.1	.167	5.87	102.8							50
1	58	14.62	14.61	33.375	24.761	319.2	.193	5.94	103.0	2.3	.32	.1	.00	.16	.04	58
1	68	14.17	14.16	33.354	24.883	307.9	.224	5.82	99.6	2.5	.37	.1	.00	.55	.15	68
	75 ISL	14.04	14.03	33.460	24.992	297.7	.246	5.69	97.2							76
1	85	13.82	13.81	33.601	25.146	283.3	.274	5.46	92.9	4.5	.45	2.4	.05	.27	.11	85
1	99	12.56	12.55	33.549	25.358	263.3	.312	5.00	82.8	7.2	.71	6.7	.02	.11	.09	99
	100 ISL	12.43	12.41	33.542	25.379	261.4	.316	4.95	81.7							101
1	118	11.02	11.00	33.521	25.624	238.2	.362	4.32	69.2	13.3	1.15	14.1	.01	.04	.07	119
	125 ISL	10.85	10.83	33.573	25.695	231.6	.377	4.15	66.3							126
1	140	10.58	10.57	33.712	25.849	217.2	.412	3.85	61.2	17.9	1.38	17.5	.01	.03	.04	141
	150 ISL	10.18	10.16	33.752	25.951	207.7	.432	3.72	58.7							151
1	159	9.81	9.80				.450	3.64	56.9	22.0	1.56	21.1	.01	.01	.02	160
1	180	9.44	9.42	33.854	26.154	188.9	.491	3.54	54.9	24.7	1.66	22.5	.00	.01	.02	181
	200 ISL	8.89	8.87	33.934	26.304	174.8	.528	3.34	51.3							202
1	201	8.87	8.84	33.938	26.311	174.1	.529	3.33	51.0	29.6	1.81	24.8	.00			202
1	222	8.41	8.38	34.022	26.449	161.3	.564	2.89	43.8	35.6	1.96	27.5	.00			223
	250 ISL	8.01	7.98	34.067	26.544	152.7	.608	2.52	37.9							252
1	257	7.93	7.91	34.071	26.558	151.4	.619	2.45	36.8	42.2	2.23	30.4	.00			258
	300 ISL	7.30	7.27	34.111	26.681	140.1	.682	1.80	26.7							302
1	307	7.21	7.18	34.116	26.698	138.5	.692	1.70	25.1	52.8	2.50	34.3	.00			309
1	364	6.75	6.72	34.159	26.795	129.9	.768	1.26	18.4	60.1	2.68	36.5	.00			366
	400 ISL	6.51	6.48	34.192	26.853	124.9	.814	.89	12.9							403
1	449	6.23	6.19	34.237	26.927	118.3	.874	.46	6.6	74.0	2.99	39.8	.01			452
	500 ISL	5.92	5.88	34.283	27.002	111.6	.932	.43	6.1							504
1	535	5.72	5.68	34.312	27.050	107.3	.971	.38	5.4	86.0	3.14	42.1	.01			539
	600 ISL	5.40	5.35	34.353	27.122	101.0	1.038	.33	4.6							605
1	622	5.30	5.25	34.363	27.141	99.2	1.060	.31	4.4	96.7	3.21	43.4	.00			626

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 103 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 26.9 N	117 44.7 W	03/18/84	0759 GMT	2610 M	350	20 KT	300 08 05	0	1020.3 MB	15.3 C	13.3 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.61	15.61	33.407	24.611	331.8	.000	5.82	102.6							0
1	1	15.61	15.61				.003	5.82	102.6	2.5	.29	.0	.00	.08	.02	1
	10 ISL	15.61	15.62	33.407	24.610	332.3	.033	5.87	103.5							10
1	11	15.62	15.62	33.407	24.609	332.3	.036	5.88	103.6	2.4	.29	.0	.00	.07	.02	11
	20 ISL	15.62	15.62	33.409	24.610	332.5	.066	5.87	103.4							20
1	27	15.63	15.62	33.410	24.611	332.7	.089	5.85	103.1	2.3	.29	.0	.00	.08	.02	27
	30 ISL	15.58	15.58	33.403	24.615	332.6	.100	5.84	102.8							30
1	43	15.57	15.56	33.401	24.617	332.6	.142	5.81	102.3	2.3	.29	.0	.00	.08	.02	43
	50 ISL	15.31	15.30	33.378	24.657	329.0	.166	5.85	102.3							50
1	58	14.95	14.94	33.357	24.719	323.3	.191	5.86	102.2	2.3	.30	.0	.00	.13	.03	58
1	69	14.48	14.47	33.364	24.825	313.4	.226	5.83	100.4	2.4	.33	.0	.00	.20	.11	69
	75 ISL	14.06	14.05	33.349	24.903	306.2	.246	5.72	97.6							76
1	79	13.80	13.79	33.340	24.949	301.9	.257	5.64	95.8	3.4	.43	.8	.11	.49	.13	79
1	95	13.09	13.07	33.340	25.093	288.4	.304	5.31	88.8	4.8	.56	3.6	.04	.28	.13	95
	100 ISL	12.74	12.73	33.356	25.174	280.9	.319	5.17	85.9							101
1	109	12.16	12.15	33.392	25.313	267.7	.343	4.94	81.1	6.5	.79	7.4	.03	.13	.13	109
1	125	11.17	11.15	33.486	25.570	243.5	.386	4.45	71.5	11.8	1.09	12.7	.01	.05	.07	126
	150 ISL	10.11	10.09	33.658	25.890	213.5	.442	3.77	59.3							151
1	156	9.87	9.85	33.710	25.970	205.8	.455	3.60	56.3	21.0	1.56	20.8	.00	.01	.03	157
1	170	9.27	9.25	33.850	26.178	186.2	.483	3.19	49.3	26.4	1.78	24.3	.00	.00	.03	171
1	191	8.79	8.77	33.935	26.321	172.9	.520	3.20	48.9	30.0	1.84	25.4	.00			192
	200 ISL	8.63	8.61	33.954	26.361	169.4	.535	3.28	50.0							202
1	211	8.47	8.45	33.973	26.401	165.7	.554	3.33	50.6	31.5	1.84	25.6	.00			212
1	242	8.02	8.00	34.049	26.528	154.0	.603	2.67	40.2	39.2	2.10	29.1	.00			243
	250 ISL	7.89	7.86	34.058	26.554	151.6	.615	2.56	38.3							252
1	283	7.41	7.38	34.084	26.644	143.4	.665	2.15	31.9	47.1	2.33	32.3	.00			285
	300 ISL	7.31	7.28	34.115	26.683	139.9	.688	1.85	27.4							302
1	343	7.09	7.05	34.187	26.771	132.1	.747	1.14	16.8	58.0	2.71	35.9	.00			345
	400 ISL	6.35	6.32	34.175	26.860	124.0	.820	.82	11.9							403
1	419	6.11	6.07	34.169	26.887	121.4	.844	.78	11.2	71.7	2.93	39.7	.00			422
1	497	5.80	5.76	34.275	27.010	110.6	.933	.40	5.7	82.4	3.12	41.5	.00			500
	500 ISL	5.78	5.74	34.276	27.014	110.2	.937	.33	4.8							504
1	573	5.39	5.34	34.307	27.086	104.0	1.015	.33	4.7	92.3	3.18	43.2	.00			577

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 16.9 N	118 04.7 W	03/18/84	1225 GMT	2050 M	320	20 KT	300 07 06	0	1019.3 MB	15.2 C	12.8 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.42	15.42	33.425	24.667	326.5	.000	5.84	102.5							0
1	2	15.42	15.42	33.425	24.667	326.5	.007	5.84	102.5	2.5	.32	.0	.00	.11	.02	2
	10 ISL	15.41	15.40	33.425	24.670	326.5	.033	5.86	102.9							10
1	12	15.40	15.40	33.425	24.671	326.5	.039	5.96	104.6	2.2	.33	.0	.00	.09	.02	12
	20 ISL	15.40	15.40	33.426	24.672	326.7	.065	5.85	102.7							20
1	22	15.40	15.40	33.426	24.672	326.7	.072	5.82	102.2	2.3	.32	.0	.00	.12	.02	22
	30 ISL	15.40	15.40	33.426	24.673	326.7	.098	5.83	102.2							30
1	32	15.38	15.38	33.426	24.677	326.6	.104	5.85	102.6	2.2	.32	.0	.00	.12	.02	32
1	43	15.20	15.19	33.426	24.717	323.0	.140	5.89	103.0	2.0	.34	.0	.00	.14	.02	43
	50 ISL	14.67	14.66	33.424	24.831	312.6	.162	5.91	102.2							50
1	59	14.06	14.05	33.423	24.959	300.3	.189	5.93	101.3	1.6	.33	.0	.00	.32	.12	59
1	68	13.98	13.97	33.432	24.982	298.4	.216	5.87	100.1	2.6	.34	.0	.00	.79	.23	68
	75 ISL	13.73	13.72	33.416	25.021	294.9	.238	5.68	96.3							76
1	78	13.61	13.60	33.409	25.041	293.1	.246	5.59	94.6	3.9	.44	1.5	.16	.49	.29	78
1	95	12.55	12.54	33.401	25.246	273.9	.294	5.05	83.6	7.0	.69	6.1	.04	.11	.11	95
	100 ISL	12.22	12.21	33.404	25.311	267.8	.308	4.91	80.7							101
1	114	11.43	11.42	33.437	25.484	251.5	.346	4.57	73.9	11.5	.98	11.0	.03	.07	.07	115
	125 ISL	10.98	10.97	33.492	25.608	239.9	.372	4.34	69.5							126
1	135	10.58	10.57	33.563	25.733	228.1	.396	4.13	65.6	16.3	1.25	15.9	.03	.02	.04	136
	150 ISL	10.00	9.98	33.696	25.936	208.9	.428	3.87	60.8							151
1	161	9.60	9.58	33.793	26.079	195.6	.451	3.69	57.4	23.2	1.51	20.7	.02	.01	.02	162
1	191	9.02	9.00	33.865	26.245	180.2	.507	3.18	48.9	29.4	1.78	24.8	.02			192
	200 ISL	8.86	8.84	33.918	26.296	175.5	.523	3.10	47.6							202
1	222	8.49	8.47	33.987	26.408	165.2	.560	2.98	45.3	34.8	1.91	27.0	.02			223
	250 ISL	8.05	8.03	34.024	26.504	156.5	.605	2.82	42.5							252
1	259	7.93	7.90	34.030	26.526	154.4	.618	2.76	41.4	40.9	2.05	29.0	.02			260
	300 ISL	7.41	7.38	34.064	26.629	145.0	.680	2.23	33.0							302
1	310	7.28	7.25	34.071	26.653	142.9	.695	2.07	30.6	50.0	2.33	32.8	.02			312
1	368	6.45	6.42	34.116	26.800	129.2	.773	1.29	18.7	63.3	2.69	37.6	.02			370
	400 ISL	6.29	6.25	34.160	26.857	124.2	.814	.97	14.0							403
1	453	6.15	6.11	34.232	26.937	117.8	.879	.59	8.5	73.8	2.95	40.1	.02			456
	500 ISL	5.85	5.81	34.270	27.000	111.7	.932	.43	6.1							504
1	540	5.59	5.54	34.295	27.053	106.9	.977	.36	5.1	85.0	3.11	42.3	.02			544
	600 ISL	5.32	5.27	34.330	27.113	101.7	1.039	.34	4.8							605
1	628	5.23	5.18	34.343	27.134	99.9	1.067	.30	4.2	94.0	3.19	43.3	.01			632

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 103 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 06.3 N	118 24.9 W	03/18/84	1707 GMT	3360 M	330	13 KT	320 07 07	0	1021.0 MB	16.1 C	13.5 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.38	15.38	33.381	24.643	328.8	.000	5.86	102.8	2.4	.30	.0	.00	.12	.01	0
	10 ISL	15.33	15.33	33.381	24.653	328.2	.033	6.01	105.3							10
1	11	15.33	15.33	33.380	24.653	328.2	.036	6.01	105.3	2.2	.31	.0	.00			11
	20 ISL	15.33	15.32	33.381	24.654	328.3	.066	5.91	103.6							20
1	21	15.33	15.32	33.381	24.655	328.3	.069	5.90	103.4	2.0	.31	.0	.00	.11	.01	21
	30 ISL	15.32	15.32	33.381	24.656	328.3	.099	5.89	103.2							30
1	32	15.31	15.31	33.381	24.658	328.3	.105	5.86	102.6	2.1	.30	.0	.00	.11	.01	32
1	42	14.58	14.57	33.346	24.790	316.0	.137	5.97	103.0	2.2	.32	.0	.00	.20	.02	42
	50 ISL	14.29	14.28	33.346	24.851	310.7	.162	5.94	101.9							50
1	52	14.26	14.25	33.346	24.858	309.8	.169	5.93	101.6	2.4	.34	.0	.00	.26	.11	52
1	62	14.12	14.11	33.407	24.934	302.9	.198	5.91	101.1	1.6	.35	.0	.00	.67	.16	62
1	72	13.96	13.95	33.454	25.005	296.4	.228	5.80	98.9	2.3	.40	.2	.05	.35	.17	72
	75 ISL	13.92	13.91	33.453	25.012	295.3	.238	5.78	98.4							76
1	87	13.69	13.68	33.453	25.059	291.6	.272	5.66	95.9	3.3	.48	1.1	.22	.16	.12	87
	100 ISL	13.08	13.07	33.421	25.157	282.6	.310	5.29	88.5							101
1	102	12.99	12.98	33.418	25.172	281.1	.315	5.24	87.5	5.4	.63	4.6	.13	.10	.11	102
1	122	11.64	11.63	33.573	25.551	245.4	.370	4.65	75.6	10.3	.95	10.5	.01	.05	.05	123
	125 ISL	11.50	11.48	33.576	25.580	242.7	.376	4.57	74.0							126
1	147	10.44	10.42	33.590	25.780	223.9	.428	3.95	62.5	17.5	1.36	17.4	.00	.02	.03	148
	150 ISL	10.35	10.33	33.606	25.808	221.3	.434	3.90	61.7							151
1	177	9.59	9.57	33.792	26.081	195.7	.491	3.55	55.2	24.4	1.62	21.8	.00			178
	200 ISL	8.99	8.97	33.906	26.267	178.3	.533	3.25	49.9							202
1	207	8.83	8.81	33.931	26.312	174.2	.546	3.17	48.5	30.8	1.81	25.0	.01			208
1	236	8.46	8.44	33.980	26.407	165.5	.595	3.02	45.9	34.5	1.94	26.7	.00			237
	250 ISL	8.25	8.23	33.997	26.453	161.4	.618	2.97	44.9							252
1	277	7.86	7.84	34.023	26.531	154.2	.660	2.82	42.3	40.6	2.07	28.8	.00			278
	300 ISL	7.58	7.55	34.046	26.591	148.8	.695	2.51	37.3							302
1	335	7.16	7.15	34.075	26.670	141.6	.746	1.97	29.1	52.6	2.42	33.3	.01			337
	400 ISL	6.40	6.37	34.111	26.804	129.3	.834	1.26	18.3							403
1	410	6.32	6.28	34.119	26.821	127.7	.847	1.17	16.9	66.7	2.78	37.9	.01			412
1	484	6.33	6.29	34.282	26.948	116.9	.938	.50	7.2	74.3	3.02	39.6	.01			487
	500 ISL	6.26	6.22	34.301	26.973	114.7	.956	.36	5.2							504
1	560	5.74	5.69	34.319	27.053	107.4	1.023	.32	4.6	84.5	3.15	41.5	.01			564

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 103 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 57.1 N	118 44.8 W	03/01/84	0558 GMT		310	16 KT	320 06 09	1	1017.8 MB	14.7 C	12.2 C	3/3	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.18	15.18	33.413	24.709	322.2	.000	5.82	101.7							0
1	1	15.18	15.18	33.413	24.709	322.5	.003	5.82	101.7	2.7	.36	.3	.00	.07	.03	1
	10 ISL	15.21	15.21	33.390	24.686	325.0	.032	5.92	103.5							10
1	12	15.21	15.21	33.387	24.683	325.3	.039	5.93	103.7	2.7	.35	.2	.00	.08	.03	12
	20 ISL	15.21	15.20	33.387	24.686	325.3	.065	5.89	102.9							20
1	27	15.20	15.19	33.387	24.688	325.3	.087	5.84	102.1	2.6	.34	.2	.00	.08	.04	27
	30 ISL	15.09	15.09	33.375	24.701	324.2	.097	5.85	102.0							30
1	42	14.69	14.68	33.328	24.752	319.6	.136	5.90	102.0	2.8	.37	.2	.00	.15	.08	42
	50 ISL	14.66	14.65	33.326	24.757	319.4	.162	5.89	101.7							50
1	57	14.63	14.62	33.322	24.761	319.2	.183	5.87	101.4	2.7	.37	.2	.01	.22	.11	57
1	73	14.63	14.62	33.333	24.770	318.8	.234	5.87	101.4	3.0	.37	.2	.01	.19	.13	73
	75 ISL	14.59	14.58	33.323	24.769	319.0	.241	5.87	101.3							76
1	83	14.56	14.57	33.322	24.771	319.0	.266	5.87	101.3	3.0	.37	.3	.01	.19	.11	83
1	98	14.13	14.12	33.332	24.875	309.5	.313	5.73	97.9	3.3	.45	.6	.12	.18	.15	98
	100 ISL	14.07	14.06	33.369	24.915	305.7	.320	5.67	96.9							101
1	119	13.42	13.41	33.653	25.269	272.5	.374	5.19	87.6	5.4	.60	4.1	.03	.09	.10	119
	125 ISL	12.99	12.98	33.640	25.345	263.6	.391	5.09	85.2							126
1	138	11.96	11.96	33.634	25.537	247.2	.425	4.86	79.6	9.0	.84	8.6	.02	.04	.05	139
	150 ISL	11.07	11.05	33.624	25.695	233.4	.453	4.49	72.0							151
1	159	10.42	10.41	33.611	25.799	222.4	.474	4.15	65.7	16.6	1.35	16.3	.01	.01	.02	160
1	179	9.64	9.62	33.776	26.059	197.8	.516	3.50	54.5	24.1	1.71	21.9	.01	.00	.07	180
1	200	9.14	9.12	33.853	26.201	184.6	.556	3.21	49.5	28.1	1.86	24.4	.01			201
1	220	8.78	8.76	33.947	26.332	172.5	.592	2.96	45.3	32.0	1.99	26.2	.01			221
	250 ISL	8.39	8.36	34.042	26.468	160.0	.642	2.73	41.4							252
1	257	8.32	8.29	34.059	26.491	157.9	.652	2.67	40.4	37.8	2.13	28.0	.01			258
	300 ISL	8.06	8.03	34.182	26.627	145.7	.718	1.67	25.1							302
1	307	8.02	7.99	34.198	26.646	144.0	.729	1.49	22.4	47.8	2.51	32.1	.00			309
1	365	7.32	7.28	34.220	26.765	133.3	.808	1.02	15.1	57.1	2.73	35.1	.00			367
	400 ISL	6.98	6.94	34.234	26.824	128.0	.854	.81	11.9							403
1	451	6.52	6.48	34.255	26.902	121.0	.918	.58	8.4	70.3	2.96	38.7	.00			454
	500 ISL	6.06	6.01	34.273	26.976	114.1	.975	.43	6.2							504
1	541	5.72	5.67	34.290	27.033	109.0	1.020	.35	5.0	82.7	3.11	41.3	.00			544
	600 ISL	5.41	5.36	34.323	27.097	103.3	1.084	.33	4.6							605
1	629	5.32	5.27	34.341	27.122	101.2	1.113	.28	4.0	90.5	3.19	42.7	.00			633

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 103 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 46.4 N	119 04.8 W	03/01/84	0150 GMT	3503 M	340	16 KT	330 05 09	1	1015.7 MB	15.1 C	13.9 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.60	15.60	33.422	24.624	331.4	.000	5.76	101.5							0
1	1	15.60	15.60	33.422	24.624	330.6	.003	5.76	101.5	2.6	.34	.2	.00	.07	.03	1
	10 ISL	15.61	15.61	33.422	24.624	330.8	.033	5.80	102.1							10
1	12	15.62	15.62	33.422	24.620	331.4	.040	5.80	102.3	2.6	.36	.2	.00	.06	.03	12
	20 ISL	15.54	15.53	33.414	24.633	330.4	.066	5.80	102.0							20
1	27	15.46	15.45	33.407	24.646	329.4	.089	5.79	101.7	2.6	.36	.2	.00	.08	.02	27
	30 ISL	15.47	15.46	33.410	24.646	329.4	.099	5.78	101.6							30
1	42	15.47	15.46	33.413	24.648	329.6	.138	5.79	101.6	2.6	.36	.2	.00	.08	.03	42
	50 ISL	15.37	15.36	33.400	24.660	328.6	.165	5.81	101.8							50
1	57	15.24	15.23	33.382	24.676	327.4	.187	5.83	102.0	2.5	.36	.2	.00	.11	.09	57
1	67	14.97	14.96	33.346	24.706	324.8	.220	5.85	101.7	2.6	.37	.2	.00	.13	.07	67
	75 ISL	14.82	14.80	33.331	24.729	322.6	.246	5.85	101.7							76
1	77	14.78	14.77	33.329	24.735	322.3	.252	5.86	101.5	2.6	.37	.2	.00	.18	.12	77
1	92	14.15	14.13	33.296	24.845	312.1	.299	5.73	98.0	3.3	.46	.3	.08	.29	.25	92
	100 ISL	14.02	14.01	33.463	24.998	297.9	.325	5.58	95.2							101
1	104	13.80	13.78	33.606	25.155	283.1	.347	5.37	91.3	4.4	.51	2.5	.03	.09	.19	104
1	122	12.30	12.28	33.559	25.418	258.2	.387	4.73	77.9	8.2	.83	7.8	.01	.05	.06	123
	125 ISL	12.15	12.14	33.596	25.473	255.9	.394	4.70	77.1							126
1	147	11.39	11.37	33.600	25.619	239.5	.449	4.43	71.6	12.7	1.11	12.3	.01	.03	.04	148
	150 ISL	11.31	11.29	33.622	25.650	236.6	.455	4.32	69.7							151
1	169	10.79	10.77	33.774	25.862	216.7	.497	3.57	57.0	19.5	1.51	18.5	.00	.01	.01	169
1	188	10.22	10.19	33.847	25.019	202.1	.533	3.34	52.7	23.2	1.66	20.8	.00			189
	200 ISL	9.87	9.85	33.925	26.139	190.8	.562	3.08	48.3							202
1	209	9.62	9.60	33.985	26.227	182.6	.578	2.88	44.9	28.9	1.88	24.3	.00			210
1	239	9.00	8.98	34.085	26.406	166.1	.630	2.48	38.1	34.8	2.05	27.0	.00			240
	250 ISL	8.89	8.87	34.110	26.443	162.6	.649	2.34	35.9							252
1	280	8.66	8.63	34.153	26.513	156.4	.696	2.01	30.7	40.2	2.24	29.0	.00			291
	300 ISL	8.37	8.34	34.163	26.567	151.6	.727	1.84	28.0							302
1	342	7.73	7.70	34.169	26.666	142.6	.789	1.56	23.3	50.0	2.46	32.6	.00			344
	400 ISL	7.15	7.11	34.186	26.764	133.8	.869	1.15	17.0							403
1	418	7.01	6.97	34.195	26.790	131.5	.893	1.03	15.1	60.6	2.69	36.3	.00			420
1	496	6.38	6.34	34.259	26.924	119.4	.991	.55	8.0	71.6	2.91	39.1	.00			499
	500 ISL	6.35	6.31	34.262	26.931	118.8	.996	.53	7.7							504
1	572	5.87	5.82	34.316	27.035	109.4	1.078	.33	4.7	81.3	3.04	41.1	.00			576

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 103 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 27.1 N	119 47.2 W	02/29/84	1957 GMT	3685 M	340 14 KT	320 08 12	1	1019.1 MB	16.7 C	14.9 C	5/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.95	15.95	33.462	24.577	335.1	.000	5.76	102.2							0
1	1	15.95	15.95	33.462	24.577	335.1	.003	5.76	102.2	3.0	.31	.0	.00	.07	.04	1
	10 ISL	15.94	15.94	33.461	24.580	335.1	.034	5.90	104.7							10
1	12	15.93	15.93	33.461	24.580	335.1	.040	5.91	104.9	2.9	.31	.0	.00	.07	.05	12
	20 ISL	15.92	15.92	33.461	24.584	335.1	.067	5.85	103.8							20
1	27	15.91	15.91	33.461	24.586	335.1	.090	5.77	102.3	2.9	.31	.0	.00	.07	.04	27
	30 ISL	15.91	15.91	33.461	24.586	335.2	.101	5.74	101.8							30
1	42	15.92	15.91	33.461	24.586	335.5	.140	5.73	101.6	2.9	.31	.0	.00	.09	.04	42
	50 ISL	15.89	15.89	33.459	24.589	335.5	.168	5.76	102.0							50
1	57	15.87	15.86	33.454	24.591	335.5	.190	5.78	102.4	2.9	.30	.0	.00	.11	.05	57
1	68	15.82	15.81	33.450	24.599	335.0	.227	5.77	102.1	2.8	.30	.0	.00	.12	.04	68
	75 ISL	15.82	15.81	33.450	24.600	335.1	.251	5.80	102.7							76
1	78	15.81	15.80	33.450	24.601	335.2	.260	5.81	102.8	2.8	.30	.0	.00	.13	.09	78
1	93	15.09	15.08	33.398	24.721	324.2	.310	5.74	100.1	3.1	.35	.0	.01	.22	.20	93
	100 ISL	14.68	14.66	33.416	24.824	314.5	.333	5.66	97.8							101
1	108	14.24	14.22	33.447	24.941	303.5	.357	5.53	94.8	3.9	.44	1.2	.10	.18	.21	108
1	123	13.34	13.32	33.502	25.168	282.2	.403	5.08	85.5	5.9	.62	4.7	.03	.09	.18	124
	125 ISL	13.27	13.25	33.506	25.187	280.4	.408	5.06	85.0							126
1	148	12.16	12.14	33.579	25.459	256.9	.470	4.65	76.4	9.7	.91	9.7	.01	.05	.07	149
	150 ISL	12.08	12.06	33.586	25.480	255.0	.474	4.59	75.2							151
1	169	11.16	11.14	33.674	25.719	230.4	.521	3.87	62.3	16.2	1.32	16.1	.01	.01	.03	170
1	189	10.30	10.27	33.775	25.949	208.2	.564	3.61	57.0	21.0	1.53	19.9	.01			190
	200 ISL	9.77	9.75	33.805	26.061	198.2	.587	3.71	58.0							202
1	210	9.34	9.31	33.830	26.152	189.5	.606	3.82	59.1	24.6	1.69	21.8	.01			211
1	240	8.74	8.71	33.944	26.337	172.4	.660	3.50	53.5	30.1	1.80	24.1	.01			241
	250 ISL	8.61	8.59	33.982	26.386	167.9	.677	3.26	49.7							252
1	281	8.36	8.33	34.082	26.504	157.2	.727	2.46	37.3	39.0	2.17	28.8	.00			282
	300 ISL	8.20	8.17	34.125	26.562	152.0	.757	2.07	31.3							302
1	342	7.87	7.84	34.198	26.660	143.2	.819	1.42	21.3	49.3	2.55	32.9	.00			344
	400 ISL	7.34	7.30	34.241	26.779	132.5	.899	.87	12.9							403
1	419	7.16	7.12	34.249	26.811	129.7	.923	.77	11.4	61.4	2.84	36.7	.00			421
1	496	6.42	6.37	34.243	26.907	121.1	1.020	.62	9.0	68.8	2.93	38.6	.00			499
	500 ISL	6.38	6.33	34.244	26.913	120.6	1.025	.61	8.8							504
1	573	5.69	5.64	34.271	27.022	110.4	1.110	.40	5.7	83.2	3.11	41.6	.00			577

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 103 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 06.9 N	120 22.9 W	02/29/84	1329 GMT	3937 M	350 23 KT	340 06 09	1	1017.6 MB	15.2 C	12.8 C	1/9	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.50	16.50	33.578	24.542	338.3	.000	5.69	102.2							0
1	2	16.50	16.50	33.578	24.542	338.5	.007	5.69	102.2	2.3	.34	.0	.00	.07	.04	2
	10 ISL	16.50	16.50	33.572	24.537	339.2	.034	5.67	101.9							10
1	13	16.50	16.50	33.571	24.536	339.4	.044	5.67	101.8	2.3	.34	.0	.00	.07	.04	13
	20 ISL	16.50	16.50	33.571	24.536	339.6	.068	5.67	101.8							20
1	28	16.50	16.50	33.572	24.537	339.8	.095	5.67	101.8	2.3	.34	.0	.00	.07	.05	28
	30 ISL	16.50	16.49	33.570	24.537	339.9	.102	5.67	101.7							30
1	43	16.50	16.49	33.567	24.535	340.5	.145	5.65	101.6	2.3	.35	.0	.00	.07	.04	43
	50 ISL	16.48	16.47	33.564	24.538	340.5	.170	5.66	101.5							50
1	58	16.45	16.44	33.560	24.541	340.4	.196	5.66	101.5	2.3	.35	.0	.00	.11	.04	58
1	73	16.42	16.41	33.560	24.547	340.3	.247			2.3	.36	.0	.00	.12	.08	73
	75 ISL	16.43	16.41	33.562	24.548	340.5	.255	5.79	104.0							76
1	83	16.43	16.41	33.562	24.549	340.5	.281	5.84	104.7	2.4	.36	.0	.00	.13	.08	83
1	98	15.56	15.55	33.517	24.710	325.4	.331	5.80	102.2	2.9	.42	.0	.00	.21	.21	98
	100 ISL	15.33	15.32	33.519	24.755	321.2	.339	5.71	100.2							101
1	119	13.47	13.46	33.492	25.134	285.3	.395	5.02	84.7	6.5	.80	5.2	.03	.13	.23	119
	125 ISL	12.99	12.97	33.517	25.250	274.4	.413	4.99	83.3							126
1	138	12.12	12.10	33.578	25.467	253.9	.448	4.95	81.2	8.6	.92	8.2	.01	.05	.08	139
	150 ISL	11.39	11.37	33.615	25.630	238.5	.477	4.65	75.2							151
1	158	10.94	10.92	33.640	25.739	229.0	.496	4.40	70.4	14.4	1.29	14.4	.01	.02	.05	159
1	178	10.23	10.21	33.714	25.912	212.0	.540	4.01	63.2	18.9	1.51	18.2	.00	.01	.02	179
1	199	9.60	9.58	33.813	26.096	194.8	.583	3.73	58.0	23.7	1.74	21.6	.00			200
	200 ISL	9.57	9.55	33.820	26.106	193.8	.584	3.71	57.7							202
1	219	9.02	8.99	33.955	26.301	175.5	.619	3.33	51.2	30.0	1.83	24.8	.01			220
	250 ISL	8.67	8.65	34.035	26.418	164.9	.672	2.91	44.4							252
1	255	8.65	8.62	34.038	26.425	164.3	.680	2.86	43.6	34.8	2.01	26.9	.00			256
	300 ISL	8.10	8.07	34.088	26.548	153.2	.752	2.37	35.7							302
1	305	8.02	7.99	34.091	26.561	152.0	.760	2.31	34.8	42.4	2.24	30.2	.00			307
1	362	7.21	7.18	34.136	26.714	137.9	.842	1.56	23.0	54.2	2.59	34.6	.00			364
	400 ISL	6.78	6.75	34.168	26.798	130.2	.893	1.16	17.0							403
1	449	6.35	6.30	34.209	26.889	122.0	.955	.79	11.4	69.8	2.89	38.9	.00			452
	500 ISL	6.01	5.96	34.250	26.965	115.2	1.015	.62	8.8							504
1	537	5.82	5.78	34.278	27.010	111.1	1.057	.55	7.9	79.6	3.06	41.0	.00			540
	600 ISL	5.56	5.51	34.325	27.080	105.2	1.125	.40	5.7							605
1	627	5.49	5.43	34.343	27.104	103.1	1.153	.35	5.0	87.3	3.17	42.5	.00			631

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 103 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
26 47.6 N	121 04.1 W	02/29/84	0727 GMT	4264 M	330	14 KT	320 06 09	1	1019.3 MB	15.3 C	12.7 C	3/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.34	16.34	33.543	24.551	337.6	.000	5.71	102.2							0
1	1	16.34	16.34	33.543	24.551	337.6	.003	5.71	102.2	3.0	.37	.2	.00	.06	.02	1
	10 ISL	16.34	16.34	33.543	24.551	338.0	.034	5.71	102.2							10
1	12	16.35	16.35	33.545	24.549	338.1	.040	5.70	102.0	2.9	.37	.2	.00	.06	.03	12
	20 ISL	16.34	16.33	33.542	24.551	338.1	.068	5.78	103.4							20
1	27	16.32	16.31	33.538	24.553	338.2	.091	5.83	104.3	2.9	.37	.2	.00	.06	.03	27
	30 ISL	16.31	16.30	33.537	24.554	338.2	.101	5.80	103.7							30
1	42	16.28	16.28	33.535	24.559	338.1	.141	5.67	101.3	2.9	.37	.2	.00	.06	.03	42
	50 ISL	16.27	16.26	33.535	24.562	338.1	.169	5.69	101.6							50
1	57	16.27	16.26	33.536	24.564	338.1	.192	5.71	102.0	2.7	.36	.2	.00	.08	.04	57
1	67	16.27	16.26	33.537	24.565	338.3	.226	5.66	101.1	2.9	.36	.2	.01	.10	.06	67
	75 ISL	16.26	16.24	33.537	24.568	338.3	.254	5.66	101.1							76
1	77	16.25	16.24	33.535	24.568	338.4	.259	5.67	101.3	3.0	.37	.2	.01	.12	.05	77
1	93	16.12	16.11	33.538	24.600	335.9	.313	5.65	100.6	2.9	.36	.2	.01	.14	.12	93
	100 ISL	15.42	15.40	33.559	24.773	319.5	.337	5.60	98.4							101
1	108	14.62	14.61	33.597	24.968	301.0	.361	5.53	95.6	3.9	.45	.7	.08	.19	.25	108
1	125	13.59	13.57	33.602	25.134	285.5	.405	5.31	90.5	4.9	.57	2.8	.03	.12	.17	123
	125 ISL	13.70	13.68	33.598	25.170	282.2	.412	5.26	89.2							126
1	148	11.90	11.88	33.583	25.511	249.9	.474	4.69	76.6	10.4	.99	9.9	.01	.05	.06	149
	150 ISL	11.89	11.76	33.588	25.534	247.8	.478	4.65	75.7							151
1	168	10.91	10.89	33.658	25.750	227.4	.521	4.13	66.1	15.8	1.33	15.3	.01	.02	.03	169
1	189	10.55	10.53	33.772	25.902	213.3	.567	3.58	56.9	20.5	1.60	19.3	.01			190
	200 ISL	10.31	10.29	33.860	26.013	202.9	.590	3.26	51.5							202
1	209	10.10	10.08	33.932	26.106	194.3	.608	3.01	47.4	25.4	1.86	22.8	.01			210
1	240	9.49	9.46	34.054	26.303	176.0	.665	2.60	40.4	31.1	2.05	25.6	.00			241
	250 ISL	9.34	9.31	34.082	26.350	171.7	.682	2.48	38.4							252
1	281	8.93	8.90	34.140	26.460	161.6	.733	2.14	32.9	37.8	2.27	26.4	.00			282
	300 ISL	8.66	8.63	34.162	26.521	156.1	.764	1.94	29.7							302
1	343	8.07	8.03	34.195	26.637	145.5	.829	1.53	23.1	47.7	2.56	32.0	.00			345
	400 ISL	7.42	7.38	34.244	26.771	133.4	.909	.96	14.3							403
1	420	7.21	7.17	34.258	26.811	129.7	.934	.79	11.7	60.3	2.88	36.2	.00			422
1	499	6.39	6.35	34.288	26.946	117.4	1.033	.45	6.5	72.4	3.06	39.2	.00			502
	500 ISL	6.38	6.34	34.288	26.948	117.3	1.034	.35	5.1							504
1	577	5.76	5.71	34.309	27.044	108.5	1.121	.35	5.0	82.6	3.16	41.6	.00			581

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 20.5 N	116 21.1 W	03/22/84	1721 GMT	798 M	330	06 KT	290 06 08	2	1014.2 MB	17.0 C	14.4 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.15	16.14	33.477	24.544	338.1	.000	5.88	104.8							0
1	1	16.15	16.14	33.477	24.544	338.2	.003	5.88	104.8	2.5	.34	.2	.00	.27	.08	1
	10 ISL	16.12	16.12	33.477	24.550	338.2	.034	5.99	106.6							10
1	11	16.12	16.12	33.474	24.546	338.1	.037	5.99	106.7	2.1	.33	.2	.00	.21	.11	11
	20 ISL	16.11	16.11	33.474	24.550	338.0	.068	5.94	105.8							20
1	21	16.05	16.04	33.471	24.563	337.1	.071	5.93	105.5	2.0	.32	.1	.00	.22	.10	21
	30 ISL	15.41	15.40	33.438	24.680	326.1	.101	5.87	103.0							30
1	32	15.25	15.25	33.427	24.707	323.7	.107	5.86	102.5	1.8	.34	.1	.00	.36	.18	32
1	41	14.70	14.69	33.338	24.758	319.0	.136	5.91	102.2	2.0	.35	.1	.00	.14	.03	41
1	50	14.50	14.50	33.368	24.823	313.1	.164	5.82	100.3	2.9	.35	.1	.00	.24	.09	50
1	63	14.01	14.00	33.447	24.988	297.7	.204	5.50	95.8	2.8	.46	1.1	.00	.45	.39	63
1	72	13.53	13.52	33.494	25.123	285.1	.230	5.28	89.2	3.9	.57	3.0	.03	.35	.19	72
	75 ISL	13.32	13.31	33.496	25.166	281.1	.239	5.16	86.9							76
1	87	12.56	12.54	33.497	25.318	266.7	.271	4.78	79.2	7.2	.85	7.9	.03	.16	.11	87
	100 ISL	11.72	11.71	33.564	25.529	247.0	.305	4.62	75.2							101
1	102	11.63	11.61	33.573	25.554	244.6	.309	4.60	74.7	9.4	1.02	11.1	.03	.08	.07	102
1	121	10.50	10.48	33.686	25.844	217.3	.355	3.90	61.9	16.5	1.41	17.7	.03	.02	.03	122
	125 ISL	10.40	10.39	33.705	25.875	214.4	.363	3.81	60.4							126
1	146	10.06	10.05	33.806	26.012	201.7	.407	3.41	53.6	21.1	1.67	21.1	.04	.00	.02	147
	150 ISL	9.99	9.97	33.820	26.036	199.6	.414	3.37	52.9							151
1	176	9.54	9.52	33.924	26.192	185.1	.465	3.02	47.0	25.7	1.90	24.5	.04			177
	200 ISL	9.49	9.47	34.080	26.322	173.3	.507	2.31	35.9							202
1	206	9.46	9.45	34.116	26.353	170.5	.518	2.14	33.3	31.8	2.18	27.7	.03			207
1	239	8.69	8.67	34.160	26.513	155.7	.571	1.86	28.4	38.2	2.45	30.1	.05			240
	250 ISL	8.52	8.50	34.176	26.552	152.2	.589	1.75	26.6							252
1	276	8.20	8.17	34.208	26.626	145.4	.628	1.49	22.5	45.1	2.56	32.5	.04			278
	300 ISL	7.88	7.85	34.226	26.688	139.9	.661	1.27	19.1							302
1	337	7.43	7.40	34.245	26.769	132.5	.717	.98	14.6	56.9	2.82	36.0	.03			339
	400 ISL	6.96	6.92	34.280	26.863	124.3	.793	.66	9.6							403
1	409	6.90	6.86	34.285	26.875	123.3	.805	.62	9.1	67.1	3.00	38.5	.03			412
1	484	6.49	6.44	34.336	26.971	114.9	.893	.41	6.0	77.1	3.12	40.3	.02			487
	500 ISL	6.38	6.33	34.343	26.991	113.1	.912	.38	5.5							504
1	558	5.92	5.87	34.357	27.061	106.8	.976	.31	4.4	90.2	3.21	42.3	.02			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 11.5 N	116 41.6 W	03/22/84	1253 GMT	2620 M	310	11 KT	290 05 08	1	1013.2 MB	15.8 C	13.9 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.11	16.11	33.461	24.540	338.3	.000	5.73	102.0							0
1	2	16.11	16.11	33.461	24.540	338.6	.007	5.73	102.0	2.6	.31	.1	.00	.11	.01	2
1	10	16.13	16.13	33.461	24.535	339.4	.034	5.86	104.4	2.0	.30	.1	.00	.12	.00	10
	20 ISL	16.13	16.13	33.461	24.535	339.4	.068	5.84	103.8							20
1	21	16.12	16.12	33.458	24.536	339.6	.071			2.0	.31	.0	.00	.11	.01	21
	30 ISL	15.92	15.91	33.437	24.566	337.1	.102	5.77	102.3							30
1	31	15.90	15.89	33.435	24.569	336.8	.105	5.76	102.1	1.9	.30	.0	.00	.11	.01	31
1	41	15.83	15.82	33.432	24.583	335.8	.138	5.80	102.7	1.8	.28	.0	.00	.14	.01	41
	50 ISL	15.74	15.74	33.424	24.596	334.8	.169	5.80	102.5							50
1	51	15.73	15.73	33.423	24.598	334.7	.172	5.80	102.5	2.1	.30	.0	.00	.18	.03	51
1	62	15.42	15.41	33.391	24.643	330.7	.208	5.81	102.0	2.0	.31	.0	.00	.20	.07	62
1	72	14.77	14.76	33.371	24.769	318.9	.240	5.78	100.1	2.3	.34	.0	.00	.25	.12	72
	75 ISL	14.51	14.50	33.397	24.844	311.8	.251	5.68	97.9							76
1	87	13.67	13.65	33.509	25.107	287.0	.286	5.28	89.5	4.4	.51	2.6	.04	.29	.19	87
	100 ISL	13.09	13.08	33.512	25.225	274.3	.323	5.06	84.8							101
1	102	13.03	13.01	33.535	25.256	273.1	.327	5.04	84.3	6.1	.67	5.0	.02	.19	.13	102
1	120	11.85	11.84	33.575	25.513	249.0	.377	4.63	75.6	9.7	.94	9.7	.00	.10	.07	121
	125 ISL	11.58	11.57	33.589	25.574	243.2	.388	4.51	73.3							126
1	145	10.53	10.51	33.664	25.823	219.9	.435	4.03	64.0	16.5	1.52	16.4	.00	.03	.02	146
	150 ISL	10.36	10.34	33.683	25.867	215.7	.445	3.96	62.6							151
1	176	9.60	9.58	33.791	26.078	196.0	.499	3.65	56.8	23.1	1.59	21.1	.00			177
	200 ISL	9.00	8.98	33.898	26.259	179.1	.544	3.34	51.4							202
1	207	8.86	8.83	33.926	26.303	174.9	.556	3.25	49.8	29.5	1.81	24.7	.00			208
1	237	8.53	8.51	34.008	26.418	164.5	.607	2.81	42.7	34.6	1.99	27.2	.01			238
	250 ISL	8.38	8.35	34.039	26.467	160.1	.628	2.60	39.4							252
1	277	8.06	8.03	34.091	26.555	152.1	.669	2.20	33.1	42.8	2.26	30.5	.01			278
	300 ISL	7.79	7.76	34.116	26.615	146.6	.705	1.93	28.9							302
1	336	7.38	7.35	34.141	26.694	139.5	.756	1.58	23.4	53.0	2.53	34.1	.01			338
	400 ISL	6.73	6.69	34.202	26.832	127.0	.841	.93	13.6							403
1	411	6.64	6.60	34.211	26.852	125.2	.855	.84	12.2	68.3	2.85	38.1	.01			413
1	485	6.14	6.10	34.264	26.958	115.7	.944	.50	7.2	80.3	3.04	40.3	.01			488
	500 ISL	6.06	6.02	34.275	26.978	114.0	.962	.45	6.5							504
1	558	5.79	5.74	34.319	27.047	108.0	1.026	.34	4.9	90.6	3.12	41.7	.01			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 01.2 N	117 01.5 W	03/22/84	0813 GMT	1580 M	330	17 KT	300 06 08	1	1013.2 MB	16.4 C	14.1 C	5/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.15	16.15	33.447	24.521	340.4	.000	5.76	102.6	2.5	.32	.1	.00	.12	.02	0
1	10	16.11	16.11	33.448	24.530	339.9	.034	5.79	103.1	2.2	.32	.1	.00	.13	.02	10
1	19	15.93	15.93	33.446	24.570	336.4	.064	5.84	103.6	2.3	.31	.1	.00	.15	.02	19
	20 ISL	15.91	15.91	33.446	24.575	336.0	.068	5.84	103.5							20
1	30	15.91	15.90	33.449	24.578	335.9	.101	5.80	102.8	2.3	.29	.1	.00	.19	.02	30
1	39	15.89	15.88	33.452	24.584	335.6	.131	5.77	102.3	2.2	.29	.0	.00	.19	.05	39
1	49	15.73	15.72	33.429	24.603	334.1	.164	5.80	102.5	2.0	.31	.0	.00	.21	.07	49
	50 ISL	15.69	15.68	33.423	24.607	333.8	.168	5.80	102.4							50
1	58	15.39	15.38	33.385	24.646	330.3	.194	5.82	102.1	1.8	.31	.0	.00	.23	.07	58
1	68	14.84	14.83	33.346	24.735	322.0	.227	5.83	101.1	2.1	.33	.0	.00	.22	.11	68
	75 ISL	14.60	14.59	33.365	24.801	315.9	.250	5.76	99.4							76
1	83	14.40	14.39	33.402	24.872	309.4	.274	5.65	97.2	2.7	.38	.2	.05	.35	.35	83
1	97	13.96	13.94	33.449	25.001	297.4	.316	5.44	92.7	3.8	.47	1.3	.09	.27	.26	97
	100 ISL	13.78	13.77	33.460	25.046	293.2	.326	5.38	91.3							101
1	116	12.81	12.80	33.512	25.281	271.2	.370	5.04	83.9	6.7	.68	5.2	.03	.16	.12	116
	125 ISL	12.16	12.15	33.547	25.434	256.7	.395	4.77	78.4							126
1	138	11.28	11.26	33.603	25.641	237.1	.428	4.40	71.0	12.0	1.07	12.2	.01	.05	.06	139
	150 ISL	10.68	10.67	33.653	25.786	223.5	.455	4.16	66.3							151
1	168	9.92	9.90	33.739	25.984	204.8	.494	3.82	59.9	20.1	1.47	19.3	.00			169
1	196	9.02	9.00	33.911	26.266	178.4	.547	3.20	49.2	28.4	1.81	24.6	.00			197
	200 ISL	8.96	8.94	33.924	26.286	176.5	.554	3.16	48.5							202
1	225	8.66	8.63	33.979	26.376	168.3	.597	2.96	45.1	32.5	1.94	26.5	.00			226
	250 ISL	8.27	8.25	34.028	26.474	159.4	.638	2.68	40.5							252
1	264	8.06	8.03	34.050	26.523	154.9	.660	2.51	37.8	40.0	2.16	29.7	.01			265
	300 ISL	7.55	7.52	34.085	26.626	145.5	.714	2.04	30.3							302
1	322	7.27	7.24	34.099	26.676	140.9	.746	1.76	26.0	51.7	2.47	33.9	.01			324
1	396	6.61	6.57	34.155	26.811	128.8	.845	1.08	15.7	64.8	2.78	37.9	.01			398
	400 ISL	6.58	6.55	34.159	26.817	128.2	.851	1.05	15.3							403
1	470	6.22	6.17	34.214	26.910	120.2	.938	.69	10.0	75.4	2.95	40.0	.01			473
	500 ISL	6.03	5.98	34.241	26.955	116.1	.973	.56	8.1							504
1	546	5.70	5.65	34.285	27.031	109.1	1.025	.39	5.6	90.9	3.12	42.2	.01			550

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 50.8 N	117 19.4 W	03/22/84	0422 GMT	2230 M	320	15 KT	300 06 08	2	1013.5 MB	15.9 C	14.5 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	15.91	15.91	33.443	24.570	335.7	.000	5.80	102.9	2.8	.33	.2	.00	.11	.01	0
	10 ISL	15.91	15.91	33.443	24.570	335.7	.034	6.01	106.5							10
1	11	15.92	15.92	33.443	24.569	336.2	.037	6.01	106.6	2.5	.32	.1	.00	.12	.00	11
	20 ISL	15.69	15.68	33.429	24.611	332.4	.067	5.88	103.7							20
1	21	15.66	15.66	33.427	24.615	332.0	.070	5.86	103.4	2.2	.32	.1	.00	.13	.02	21
	30 ISL	15.50	15.49	33.399	24.631	330.9	.100	5.90	103.8							30
1	31	15.47	15.47	33.396	24.634	330.7	.103	5.91	103.9	2.4	.34	.1	.00	.17	.00	31
1	42	14.88	14.87	33.362	24.738	321.0	.139	5.94	103.1	2.1	.34	.1	.00	.20	.02	42
	50 ISL	14.49	14.49	33.340	24.803	315.0	.165	6.00	103.2							50
1	52	14.43	14.42	33.337	24.815	313.9	.170	6.01	103.4	2.0	.36	.1	.00	.30	.10	52
1	62	14.28	14.27	33.333	24.844	311.4	.202	5.92	101.5	2.0	.37	.1	.00	.52	.25	62
1	73	14.25	14.24	33.363	24.872	309.0	.236	5.90	101.1	2.5	.40	.1	.00	.68	.28	73
	75 ISL	14.25	14.23	33.381	24.888	307.7	.243	5.86	100.4							76
1	86	14.24	14.23	33.542	25.013	296.1	.281	5.55	95.2	3.1	.39	.8	.10	.27	.24	86
	100 ISL	13.53	13.52	33.547	25.164	280.2	.316	5.26	89.0							101
1	103	13.33	13.32	33.571	25.223	276.4	.324	5.20	87.6	5.1	.56	5.8	.04	.15	.12	103
1	122	11.57	11.55	33.575	25.567	243.9	.375	4.61	74.8	10.5	.96	10.5	.02	.06	.05	123
	125 ISL	11.44	11.43	33.612	25.618	241.6	.381	4.56	73.8							126
	150 ISL	10.57	10.55	33.608	25.772	224.8	.440	4.12	65.5							151
1	152	10.52	10.50	33.615	25.785	223.6	.445	4.09	64.9	15.9	1.30	16.2	.01	.01	.04	153
1	177	9.66	9.64	33.819	26.090	194.9	.497	3.63	56.6	22.8	1.56	21.2	.01			178
	200 ISL	9.13	9.10	33.923	26.259	179.2	.540	3.31	51.1							202
1	206	9.02	8.99	33.941	26.290	176.3	.550	3.24	49.8	28.8	1.85	24.6	.01			207
1	237	8.57	8.55	34.024	26.425	164.0	.603	2.86	43.6							238
	250 ISL	8.39	8.37	34.047	26.470	159.8	.624	2.70	41.0							252
1	276	8.04	8.01	34.078	26.548	152.7	.664	2.39	36.0	41.1	2.16	29.9	.01			277
	300 ISL	7.67	7.64	34.100	26.620	146.1	.701	2.05	30.5							302
1	334	7.18	7.15	34.123	26.708	138.0	.749	1.60	23.6							336
	400 ISL	6.52	6.49	34.162	26.828	127.2	.836	1.10	16.1							405
1	408	6.47	6.43	34.167	26.839	126.1	.846	1.06	15.4	68.6	2.80	38.5	.01			410
1	482	6.09	6.04	34.276	26.975	114.1	.935	.50	7.2	81.7	3.02	40.8	.01			485
	500 ISL	6.02	5.97	34.297	27.000	111.9	.956	.39	5.6							504
1	556	5.85	5.80	34.344	27.060	106.9	1.017	.35	5.0	91.2	3.12	42.0	.00			560

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 41.5 N	117 41.4 W	03/22/84	0012 GMT	3170 M	320	17 KT	290 06 08	2	1013.2 MB	17.8 C	15.7 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.19	16.19	33.463	24.524	340.1	.000	5.80	103.4	2.8	.31	.2	.00	.10	.00	0
	10 ISL	16.14	16.14	33.463	24.535	340.0	.034	6.04	107.6							10
1	11	16.13	16.13	33.461	24.536	339.3	.037	6.05	107.8	2.4	.30	.2	.00	.10	.00	11
	20 ISL	16.02	16.01	33.471	24.569	336.4	.068	5.99	106.5							20
1	26	15.94	15.94	33.476	24.591	334.5	.088	5.90	104.7	2.5	.29	.1	.00	.12	.03	26
	30 ISL	15.92	15.91	33.475	24.596	334.2	.101	5.86	104.0							30
1	40	15.86	15.85	33.464	24.600	334.1	.134	5.80	102.8	2.3	.28	.1	.00	.14	.00	40
	50 ISL	15.76	15.76	33.452	24.614	333.2	.168	5.81	102.8							50
1	56	15.65	15.65	33.439	24.627	332.0	.187	5.83	102.8	2.3	.30	.1	.00	.20	.00	56
1	65	15.33	15.32	33.396	24.667	328.5	.217	5.90	103.4	2.3	.31	.1	.00	.18	.06	65
1	75	14.99	14.98	33.351	24.706	325.0	.249	5.96	103.7	2.4	.31	.1	.00	.24	.06	75
1	91	14.65	14.63	33.361	24.788	317.6	.301	5.89	101.8	2.3	.34	.1	.00	.43	.12	91
	100 ISL	14.46	14.44	33.361	24.829	314.2	.330	5.90	101.7							101
1	105	14.37	14.36	33.361	24.847	312.4	.345	5.92	101.7	2.2	.34	.1	.00	.35	.17	105
1	120	14.14	14.13	33.431	24.949	303.1	.391	5.67	97.0	2.8	.40	.5	.19	.23	.14	120
	125 ISL	13.75	13.74	33.451	25.045	294.0	.407	5.52	93.6							126
1	145	12.01	11.99	33.519	25.441	256.5	.463	4.86	79.6	8.2	.81	7.9	.03	.06	.05	146
	150 ISL	11.71	11.69	33.527	25.504	250.6	.475	4.71	76.6							151
1	165	10.85	10.83	33.564	25.688	233.2	.512	4.26	68.0	14.0	1.24	14.4	.03	.02	.03	166
1	185	9.98	9.96	33.693	25.939	209.5	.556	3.86	60.5	19.4	1.49	19.2	.02			186
	200 ISL	9.47	9.44	33.785	26.096	194.7	.586	3.48	53.9							202
1	205	9.33	9.31	33.816	26.143	190.4	.595	3.35	51.8	25.2	1.72	23.2	.01			206
1	236	9.05	9.02	34.014	26.343	171.9	.651	2.91	44.8	30.7	1.93	25.8	.01			237
	250 ISL	8.80	8.77	34.065	26.423	164.5	.675	2.66	40.7							252
1	275	8.29	8.27	34.114	26.539	153.7	.714	2.24	33.9	40.1	2.21	29.6	.01			276
	300 ISL	7.79	7.76	34.111	26.611	146.5	.752	2.01	30.1							302
1	333	7.26	7.22	34.109	26.696	140.1	.800	1.78	26.3	52.0	2.48	33.8	.01			335
	400 ISL	7.01	6.97	34.206	26.797	130.5	.890	1.01	14.9							403
1	408	7.00	6.96	34.218	26.808	129.6	.900	.93	13.7	62.4	2.81	37.2	.02			410
1	483	6.31	6.26	34.254	26.930	118.6	.994	.58	8.4	76.5	3.01	39.9	.02			486
	500 ISL	6.18	6.13	34.267	26.957	116.2	1.014	.52	7.5							504
1	558	5.81	5.76	34.322	27.047	108.0	1.079	.36	5.1	90.6	3.15	42.0	.02			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 31.5 N	118 01.3 W	03/21/84	2017 GMT	3550 M	330	19 KT	310 04 04	2	1016.3 MB	16.5 C	15.0 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.14	16.14	33.469	24.539	338.8	.000	5.77	102.9							0
1	1	16.14	16.14	33.469	24.539	338.7	.003	5.77	102.8	2.2	.31	.1	.01	.03	.01	1
	10 ISL	16.14	16.14	33.469	24.540	338.7	.034	5.88	104.8							10
1	11	16.13	16.13	33.468	24.542	338.8	.037	5.89	104.9	1.8	.31	.0	.01	.07	.03	11
	20 ISL	15.86	15.86	33.452	24.590	334.5	.068	5.89	104.9							20
1	21	15.83	15.83	33.451	24.595	334.0	.071	5.92	104.8	2.1	.30	.0	.00	.09	.02	21
1	30	15.78	15.77	33.437	24.598	334.0	.101	5.83	103.1	1.9	.30	.0	.00	.11	.03	30
1	41	15.69	15.69	33.435	24.615	332.7	.137	5.87	103.6	1.9	.31	.0	.00	.15	.04	41
	50 ISL	15.63	15.62	33.427	24.624	332.1	.168	5.84	103.0							50
1	51	15.62	15.61	33.426	24.625	332.1	.170	5.84	102.9	1.9	.32	.0	.00	.16	.05	51
1	61	15.50	15.49	33.414	24.644	330.7	.203	5.94	104.4	1.9	.35	.0	.00	.18	.06	61
1	71	15.33	15.32	33.404	24.672	328.2	.236	5.69	99.7	1.9	.35	.0	.00	.20	.07	71
	75 ISL	15.29	15.27	33.402	24.681	327.4	.250	5.70	99.7							76
1	86	15.11	15.10	33.395	24.715	324.5	.285			1.9	.37	.0	.00	.29	.10	86
	100 ISL	14.54	14.52	33.368	24.817	315.1	.331	5.89	99.7							101
1	101	14.51	14.50	33.367	24.822	314.7	.333	5.90	101.7	1.9	.39	.0	.01	.40	.15	101
1	120	14.03	14.01	33.424	24.967	301.3	.391	5.68	96.9	2.5	.46	.8	.22	.13	.11	120
	125 ISL	13.86	13.84	33.452	25.025	295.9	.407	5.58	95.0							126
1	144	13.04	13.02	33.541	25.260	274.0	.462	5.19	86.7	5.0	.67	4.6	.05	.09	.09	145
	150 ISL	12.65	12.63	33.561	25.351	267.1	.478	5.06	84.0							151
1	173	11.06	11.03	33.566	25.653	236.7	.536	4.46	71.5	12.5	1.18	15.2	.00			174
	200 ISL	9.98	9.95	33.840	26.055	198.9	.594	3.45	54.2							202
1	202	9.92	9.89	33.863	26.083	196.2	.599	3.38	53.0	23.7	1.93	21.7	.00			203
1	232	9.23	9.21	34.016	26.315	174.5	.654	2.85	44.0	31.1	2.04	25.6	.00			233
	250 ISL	8.96	8.94	34.058	26.392	167.6	.685	2.67	41.0							252
1	271	8.70	8.67	34.082	26.452	162.1	.719	2.51	38.3	35.9	2.17	27.8	.00			272
	300 ISL	8.20	8.17	34.111	26.550	153.1	.765	2.20	33.2							302
1	328	7.75	7.71	34.134	26.636	145.1	.807	1.87	28.0	47.7	2.46	32.1	.00			330
	400 ISL	7.02	6.99	34.217	26.804	129.9	.906	.99	14.5							403
1	402	7.01	6.97	34.219	26.807	129.6	.908	.97	14.3	61.9	2.97	36.4	.00			404
1	478	6.29	6.25	34.247	26.927	118.8	1.003	.62	9.0	74.6	3.07	39.3	.00			481
	500 ISL	6.14	6.10	34.263	26.958	116.0	1.029	.54	7.8							504
1	553	5.91	5.86	34.314	27.028	109.9	1.089	.39	5.6	84.8	3.18	41.1	.00			557

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 107 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 22.0 N	118 20.9 W	03/01/84	1142 GMT	3216 M	320	21 KT	310 05 10	1	1017.8 MB	14.7 C	12.6 C	7/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.81	15.81	33.455	24.603	332.6	.000	5.80	102.7							0
1	1	15.81	15.81	33.455	24.603	332.6	.003	5.80	102.7	2.5	.33	.2	.00	.08	.03	1
	10 ISL	15.82	15.82	33.452	24.600	333.2	.033	5.88	104.0							10
1	11	15.82	15.82	33.452	24.599	333.2	.036	5.88	104.1	2.4	.33	.2	.00	.07	.03	11
	20 ISL	15.81	15.81	33.453	24.602	333.3	.067	5.86	103.8							20
1	27	15.81	15.81	33.454	24.603	333.4	.090	5.84	103.4	2.4	.33	.2	.00	.08	.02	27
	30 ISL	15.84	15.83	33.456	24.599	333.7	.100	5.82	103.1							30
1	42	15.84	15.84	33.456	24.598	334.4	.140	5.76	102.0	2.4	.33	.2	.00	.09	.04	42
	50 ISL	15.75	15.75	33.446	24.611	333.4	.167	5.76	101.8							50
1	57	15.66	15.65	33.435	24.624	332.4	.189	5.76	101.6	2.4	.33	.2	.00	.11	.04	57
1	73	15.45	15.44	33.399	24.643	331.1	.242	5.78	101.5	2.5	.33	.2	.00	.09	.06	73
	75 ISL	15.36	15.35	33.383	24.650	330.4	.250	5.80	101.4							76
1	83	14.99	14.97	33.340	24.699	325.9	.275	5.83	101.4	2.6	.34	.2	.00	.13	.09	83
1	98	14.17	14.16	33.419	24.933	304.0	.322	5.54	96.8	4.1	.48	1.5	.07	.25	.22	98
	100 ISL	14.06	14.05	33.434	24.968	300.7	.329	5.50	93.9							101
1	119	13.17	13.15	33.547	25.238	275.4	.383	5.20	87.2	5.8	.62	4.4	.03	.11	.15	119
	125 ISL	12.81	12.79	33.586	25.339	265.9	.400	5.10	84.9							126
1	138	12.04	12.02	33.646	25.534	247.5	.435	4.85	79.5	9.0	.85	8.6	.02	.05	.06	139
	150 ISL	11.33	11.31	33.669	25.669	234.9	.462	4.56	73.7							151
1	158	10.86	10.86	33.651	25.750	227.1	.482	4.35	69.6	14.6	1.23	14.4	.02	.02	.04	159
1	179	10.26	10.24	33.736	25.925	210.8	.527	3.91	61.7	19.4	1.50	18.5	.01	.00	.01	180
1	199	9.85	9.83	33.809	26.052	199.1	.568	3.59	56.2	23.1	1.65	21.2	.01			200
	200 ISL	9.82	9.80	33.814	26.060	198.3	.570	3.57	55.9							202
1	220	9.27	9.25	33.932	26.243	181.2	.608	3.23	49.9	28.1	1.84	23.9	.01			221
	250 ISL	8.86	8.84	34.069	26.414	165.3	.660	2.65	40.6							252
1	256	8.82	8.79	34.087	26.437	163.3	.669	2.54	38.9	35.2	2.13	27.3	.01			257
	300 ISL	8.32	8.29	34.157	26.569	151.4	.739	1.97	29.8							302
1	306	8.25	8.22	34.161	26.582	150.2	.749	1.90	28.7	43.1	2.36	30.3	.00			308
1	363	7.61	7.57	34.220	26.724	137.3	.830	1.19	17.7	53.6	2.69	34.0	.00			365
	400 ISL	7.11	7.07	34.226	26.799	130.4	.879	.94	13.8							403
1	450	6.49	6.45	34.229	26.885	122.5	.943	.73	10.6	69.0	2.94	38.4	.00			453
	500 ISL	6.12	6.08	34.263	26.960	115.8	1.002	.54	7.7							504
1	538	5.93	5.88	34.293	27.010	111.4	1.045	.43	6.2	77.8	3.07	40.4	.00			541
	600 ISL	5.65	5.60	34.339	27.081	105.2	1.113	.33	4.7							605
1	625	5.57	5.51	34.357	27.105	103.1	1.138	.32	4.6	87.1	3.17	42.2	.00			629

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 107 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 11.2 N	118 41.8 W	03/01/84	1559 GMT		330	18 KT	310 06 10	1	1018.8 MB	14.6 C	12.1 C	7/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.09	16.09	33.504	24.578	335.0	.000	5.73	102.0							0
1	1	16.09	16.09	33.504	24.578	335.0	.003	5.73	102.0	2.5	.31	.2	.00	.07	.05	1
	10 ISL	16.10	16.10	33.504	24.576	335.5	.034	5.77	102.7							10
1	11	16.10	16.10	33.504	24.576	335.5	.037	5.77	102.7	2.5	.32	.2	.00	.07	.33	11
	20 ISL	16.09	16.09	33.503	24.577	335.7	.067	5.75	102.3							20
1	26	16.09	16.09	33.502	24.577	335.9	.087	5.72	101.8	2.5	.31	.2	.00	.07	.03	26
	30 ISL	16.10	16.09	33.513	24.583	335.4	.101	5.71	101.7							30
1	41	16.11	16.11	33.545	24.605	333.7	.137	5.70	101.5	2.5	.31	.2	.00	.08	.04	41
	50 ISL	16.11	16.10	33.566	24.623	332.3	.167	5.70	101.6							50
1	56	16.09	16.08	33.569	24.629	331.9	.187	5.71	101.7	2.5	.31	.3	.00	.08	.04	56
1	71	15.90	15.89	33.477	24.599	335.2	.236	5.73	101.6	2.4	.32	.3	.00	.10	.04	71
	75 ISL	15.89	15.88	33.471	24.599	335.3	.251	5.73	101.6							76
1	81	15.89	15.88	33.470	24.600	335.4	.270	5.73	101.6	2.4	.32	.3	.00	.11	.05	81
1	97	14.66	14.64	33.430	24.840	312.9	.322	5.66	97.8	3.3	.41	.3	.04	.29	.28	97
	100 ISL	14.47	14.45	33.437	24.885	308.7	.332	5.60	96.4							101
1	117	13.63	13.61	33.495	25.105	288.1	.381	5.21	88.2	5.2	.60	3.8	.03	.13	.18	117
	125 ISL	13.10	13.08	33.526	25.235	275.8	.405	5.04	84.4							126
1	136	12.40	12.38	33.572	25.409	259.5	.436	4.83	79.7	8.0	.83	7.5	.02	.08	.09	137
	150 ISL	11.73	11.71	33.626	25.576	245.7	.470	4.69	76.3							151
1	156	11.42	11.40	33.653	25.654	238.3	.485	4.58	74.1	11.8	1.04	11.9	.01	.03	.04	157
1	176	10.17	10.15	33.762	25.959	207.4	.529	3.72	58.6	20.3	1.56	19.6	.01	.00	.02	177
1	196	9.79	9.77	33.876	26.114	193.1	.569	3.33	52.1	24.8	1.75	22.4	.00			197
	200 ISL	9.68	9.66	33.887	26.141	190.6	.577	3.33	51.9							202
1	217	9.17	9.15	33.923	26.251	180.3	.608	3.33	51.4	27.8	1.81	24.0	.00			218
	250 ISL	8.44	8.42	33.999	26.425	164.1	.665	3.07	46.6							252
1	252	8.41	8.39	34.002	26.432	163.4	.668	3.05	46.3	34.3	1.99	26.9	.00			253
	300 ISL	7.87	7.84	34.070	26.568	151.2	.744	2.44	36.6							302
1	302	7.85	7.82	34.072	26.572	150.8	.747	2.41	36.1	42.8	2.28	30.6	.00			304
1	359	7.19	7.15	34.114	26.700	139.2	.829	1.66	24.5	53.0	2.56	34.5	.00			361
	400 ISL	6.75	6.72	34.115	26.760	134.0	.885	1.23	18.0							403
1	444	6.34	6.30	34.115	26.815	128.8	.944	.87	12.6	67.9	2.90	38.9	.00			447
	500 ISL	5.92	5.87	34.196	26.934	118.0	1.012	.59	8.4							504
1	533	5.72	5.68	34.251	27.001	111.8	1.050	.49	7.0	80.4	3.10	41.8	.00			536
	600 ISL	5.46	5.41	34.316	27.086	104.4	1.123	.47	6.6							605
1	620	5.41	5.36	34.329	27.101	103.2	1.143	.39	5.5	88.3	3.19	43.0	.00			624

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 107 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 51.9 N	119 19.6 W	03/01/84	2239 GMT		340	15 KT	350 05 06	1	1017.2 MB	16.2 C	13.1 C	6/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.21	16.21	33.525	24.566	336.7	.000	5.70	101.7							0
1	1	16.21	16.21	33.525	24.566	336.2	.003	5.70	101.7	2.5	.28	.2	.00	.07	.04	1
	10 ISL	16.21	16.21	33.519	24.563	336.3	.034	5.76	102.8							10
1	12	16.20	16.20	33.518	24.563	336.7	.040	5.77	103.0	2.5	.29	.2	.00	.08	.04	12
	20 ISL	16.14	16.14	33.512	24.572	336.1	.067	5.78	103.1							20
1	26	16.10	16.10	33.508	24.579	335.7	.087	5.80	103.3	2.4	.28	.2	.00	.09	.05	26
	30 ISL	16.10	16.10	33.507	24.578	335.9	.101	5.78	102.9							30
1	41	16.10	16.09	33.504	24.576	336.4	.137	5.71	101.7	2.5	.28	.2	.00	.11	.04	41
	50 ISL	16.06	16.06	33.502	24.583	336.0	.168	5.71	101.7							50
1	56	16.03	16.02	33.500	24.590	335.6	.188	5.72	101.7	2.4	.28	.2	.00	.12	.04	56
1	66	15.98	15.97	33.494	24.598	335.2	.221	5.70	101.2	2.6	.28	.2	.00	.11	.04	66
	75 ISL	15.98	15.96	33.498	24.602	335.1	.252	5.70	101.2							76
1	76	15.97	15.96	33.498	24.603	335.0	.254	5.71	101.4	2.5	.28	.2	.00	.12	.09	76
1	92	14.67	14.65	33.439	24.844	312.3	.306	5.56	96.1	3.4	.41	.6	.06	.30	.32	92
	100 ISL	14.34	14.33	33.509	24.967	300.8	.332	5.43	93.4							101
1	106	14.14	14.13	33.561	25.050	293.1	.348	5.34	91.4	4.3	.50	2.4	.04	.14	.17	106
1	121	13.11	13.09	33.586	25.280	271.5	.390	5.09	85.3	5.4	.58	4.2	.02	.08	.10	121
	125 ISL	12.79	12.78	33.600	25.353	265.6	.402	4.99	83.1							126
1	145	11.49	11.47	33.603	25.604	240.9	.454	4.47	72.4	12.0	1.05	12.0	.02	.03	.06	146
	150 ISL	11.23	11.21	33.619	25.663	235.3	.465	4.36	70.2							151
1	165	10.55	10.53	33.701	25.848	217.9	.500	3.94	62.6	17.7	1.37	17.3	.02	.01	.02	166
1	185	10.14	10.12	33.861	26.058	198.3	.541	3.19	50.3	24.0	1.70	21.9	.02			186
	200 ISL	9.65	9.63	33.946	26.192	185.8	.569	3.00	46.7							202
1	205	9.48	9.46	33.960	26.230	182.1	.579	2.97	46.1	28.5	1.84	24.2	.01			206
1	236	8.98	8.96	34.026	26.362	173.0	.633	2.74	42.1	32.4	1.98	26.3	.00			237
	250 ISL	8.73	8.71	34.042	26.414	165.3	.657	2.67	40.9							252
1	276	8.30	8.27	34.061	26.496	157.8	.698	2.53	38.3	37.9	2.11	28.4	.00			277
	300 ISL	7.97	7.94	34.088	26.566	151.4	.736	2.24	33.7							302
1	338	7.56	7.52	34.127	26.658	143.1	.789	1.75	26.1	49.8	2.45	33.1	.00			338
	400 ISL	6.95	6.91	34.195	26.797	130.6	.876	1.00	14.7							403
1	417	6.86	6.82	34.205	26.818	128.6	.891	.89	13.0	62.9	2.79	37.4	.00			414
1	489	6.25	6.21	34.253	26.936	118.0	.987	.53	7.7	72.6	2.98	39.8	.00			492
	500 ISL	6.18	6.13	34.259	26.951	116.7	1.000	.50	7.1							504
1	565	5.76	5.71	34.291	27.029	109.8	1.074	.37	5.3	81.8	3.10	41.7	.01			569

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 107 20

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 35.0 N	119 59.6 W	03/02/84	0506 GMT	3880 M	340	15 KT	340 05 08	1	1017.1 MB	16.2 C	12.6 C	2/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.62	16.62	33.591	24.523	340.1	.000	5.78	104.0							0
1	1	16.62	16.62	33.591	24.523	340.2	.003	5.78	104.0	2.9	.31	.1	.00	.08	.03	1
	10 ISL	16.64	16.64	33.589	24.518	341.0	.034	5.86	105.4							10
1	12	16.64	16.64	33.589	24.517	341.1	.041	5.87	105.7	2.9	.32	.1	.00	.08	.03	12
	20 ISL	16.63	16.63	33.590	24.520	341.1	.068	5.92	106.7							20
1	27	16.62	16.62	33.590	24.522	341.1	.092	5.94	106.9	2.8	.32	.1	.00	.08	.04	27
	30 ISL	16.63	16.62	33.590	24.521	341.5	.102	5.91	106.4							30
1	42	16.65	16.64	33.590	24.518	342.1	.143	5.80	104.4	2.9	.31	.1	.00	.08	.04	42
	50 ISL	16.64	16.63	33.590	24.519	342.2	.171	5.81	104.6							50
1	57	16.63	16.62	33.588	24.521	342.3	.194	5.83	104.9	2.8	.32	.1	.00	.13	.03	57
1	67	16.61	16.60	33.589	24.527	342.0	.228	5.80	104.4	2.8	.32	.1	.00	.11	.04	67
	75 ISL	16.60	16.59	33.588	24.527	342.3	.256	5.78	104.0							76
1	77	16.60	16.59	33.587	24.527	342.3	.262	5.78	104.0	2.9	.32	.1	.00	.12	.04	77
1	92	16.57	16.55	33.583	24.532	342.3	.313	5.86	105.3	3.0	.32	.2	.00	.15	.10	92
	100 ISL	15.73	15.71	33.566	24.711	325.5	.341	5.81	102.6							101
1	107	14.97	14.95	33.561	24.875	309.6	.362	5.73	99.8	3.3	.37	.4	.02	.26	.36	107
1	122	14.06	14.04	33.569	25.088	289.9	.407	5.50	94.0	4.9	.52	2.6	.06	.18	.29	122
	125 ISL	13.76	13.74	33.615	25.170	284.1	.417	5.35	91.0							126
1	147	11.94	11.92	33.619	25.532	247.8	.476	4.29	70.2	12.7	1.17	13.0	.01	.05	.08	148
	150 ISL	11.81	11.79	33.635	25.569	244.4	.483	4.20	68.6							151
1	167	11.12	11.10	33.746	25.782	224.4	.523	3.69	59.3	18.2	1.49	17.9	.00	.01	.02	168
1	187	10.40	10.38	33.849	25.989	205.0	.566	3.35	53.1	22.9	1.69	21.1	.00			188
	200 ISL	10.03	10.00	33.926	26.114	193.4	.592	3.22	50.6							202
1	208	9.82	9.80	33.972	26.184	186.8	.607	3.15	49.3	27.5	1.86	23.8	.00			209
1	238	9.16	9.14	34.069	26.368	169.7	.660	2.77	42.8	32.9	2.02	26.2	.00			239
	250 ISL	8.96	8.94	34.100	26.424	164.5	.680	2.58	39.7							252
1	280	8.57	8.54	34.156	26.530	154.8	.727	2.16	32.9	40.6	2.30	29.4	.00			281
	300 ISL	8.33	8.30	34.173	26.580	150.3	.759	2.00	30.3							302
1	339	7.93	7.90	34.192	26.655	143.7	.816	1.75	26.3	48.2	2.53	32.2	.00			341
	400 ISL	7.39	7.35	34.259	26.786	131.9	.900	1.07	15.8							403
1	417	7.25	7.21	34.276	26.820	128.9	.922	.89	13.2	60.0	2.82	36.0	.00			419
1	494	6.54	6.50	34.307	26.941	118.0	1.017	.57	8.3	70.0	2.99	38.9	.00			497
	500 ISL	6.50	6.45	34.309	26.949	117.3	1.024	.51	7.5							504
1	571	6.01	5.96	34.325	27.025	110.5	1.106	.51	7.3	79.1	3.10	40.9	.00			575

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 107 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 10.7 N	120 35.6 W	03/02/84	1020 GMT		350	13 KT	340 05 08	1	1017.3 MB	15.8 C	13.8 C	1/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.82	16.82	33.649	24.521	340.3	.000	5.69	102.9							0
1	1	16.82	16.82	33.649	24.521	340.4	.003	5.69	102.9	2.7	.30	.3	.00	.04	.02	1
	10 ISL	16.82	16.82	33.645	24.519	340.9	.034	5.64	102.0							10
1	11	16.81	16.81	33.644	24.519	341.0	.037	5.64	101.9	2.8	.30	.3	.00	.04	.02	11
	20 ISL	16.81	16.80	33.643	24.520	341.2	.068	5.65	102.1							20
1	27	16.80	16.80	33.642	24.521	341.3	.092	5.66	102.3	2.7	.30	.2	.00	.05	.02	27
	30 ISL	16.81	16.80	33.641	24.520	341.6	.102	5.65	102.1							30
1	42	16.81	16.80	33.634	24.514	342.4	.143	5.62	101.5	2.7	.30	.2	.00	.04	.02	42
	50 ISL	16.79	16.78	33.629	24.516	342.6	.171	5.62	101.6							50
1	58	16.76	16.75	33.622	24.516	342.6	.197	5.63	101.6	2.7	.30	.2	.00	.05	.03	58
1	73	16.71	16.69	33.620	24.528	342.1	.249	5.62	101.3	2.7	.30	.2	.00	.07	.03	75
	75 ISL	16.70	16.69	33.619	24.529	342.2	.256	5.62	101.3							76
1	83	16.69	16.67	33.615	24.529	342.4	.283	5.62	101.5	2.7	.30	.2	.00	.08	.03	83
1	99	16.64	16.63	33.614	24.539	341.9	.337	5.64	101.5	2.7	.30	.2	.00	.11	.05	99
	100 ISL	16.48	16.47	33.605	24.569	339.1	.342	5.63	101.0							101
1	119	13.97	13.95	33.515	25.050	293.4	.401	5.29	90.2	4.6	.54	2.6	.04	.16	.20	119
	125 ISL	13.46	13.44	33.532	25.167	283.6	.419	5.08	85.7							126
1	139	12.60	12.58	33.539	25.344	265.7	.459	4.60	76.3	9.1	.93	8.9	.02	.08	.11	140
	150 ISL	11.95	11.93	33.578	25.499	251.1	.486	4.39	71.8							151
1	159	11.41	11.39	33.618	25.630	238.7	.509	4.25	68.7	13.7	1.21	13.9	.02	.03	.04	160
1	180	10.39	10.37	33.707	25.880	215.1	.556	3.98	63.0	18.3	1.44	18.1	.02	.01	.02	181
1	200	9.77	9.75	33.825	26.076	196.7	.597	3.59	56.1	24.1	1.64	21.4	.00			201
1	221	9.35	9.33	33.921	26.221	183.2	.637	3.33	51.6	27.8	1.77	23.6	.00			222
	250 ISL	8.82	8.79	34.021	26.365	168.1	.688	3.01	46.0							252
1	257	8.70	8.68	34.039	26.417	165.1	.699	2.93	44.8	33.5	1.97	26.5	.00			258
	300 ISL	8.13	8.10	34.114	26.563	151.8	.768	2.31	34.9							302
1	308	8.03	8.00	34.122	26.584	149.8	.780	2.19	33.0	43.3	2.26	30.4	.00			310
1	365	7.37	7.34	34.171	26.719	137.6	.862	1.49	22.1	53.7	2.59	34.4	.00			367
	400 ISL	7.04	7.00	34.210	26.796	130.7	.909	1.11	16.4							403
1	452	6.63	6.58	34.264	26.896	121.7	.975	.66	9.6	66.7	2.93	37.9	.00			455
	500 ISL	6.29	6.24	34.289	26.960	115.9	1.031	.41	5.9							504
1	541	6.04	6.02				1.078									545
	600 ISL	5.73	5.68	34.332	27.065	106.8	1.143	.60	8.6							605
1	630	5.61	5.56	34.345	27.091	104.6	1.174	.32	4.6	85.1	3.15	42.5	.00			634

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 32.4

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 52.2 N	115 49.2 W	03/20/84	1636 GMT	47 M	290	06 KT	290 05 06	1	1012.9 MB	16.3 C	14.2 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.03	15.03	33.516	24.822	315.1	.000	6.09	106.2							0
1	1	15.03	15.03	33.516	24.822	311.8	.003	6.09	106.2	0.0	.35	.0	.00	1.71	.23	1
	10 ISL	13.40	13.40	33.533	25.097	285.9	.030	5.39	95.0							10
1	11	13.69	13.68	33.536	25.122	283.5	.033	5.52	93.6	2.7	.67	4.4	.24	1.64	.65	11
	20 ISL	12.82	12.82	33.564	25.317	265.1	.058	4.74	79.0							20
1	21	12.76	12.75	33.567	25.332	263.7	.060	4.67	77.7	5.5	.93	8.8	.25	.64	.35	21
	30 ISL	12.52	12.52	33.621	25.419	255.7	.084	4.32	71.6							30
1	31	12.51	12.51	33.626	25.425	255.2	.086	4.30	71.2	8.7	1.12	11.4	.27	.58	.41	31
1	41	12.27	12.27	33.667	25.504	247.9	.111	4.05	66.7	10.9	1.28	13.6	.28	.47	.70	41

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 47.1 N	115 59.7 W	03/20/84	1904 GMT	960 M	300	09 KT	290 05 06	1	1013.2 MB	17.7 C	16.0 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	15.46	15.46	33.514	24.726	324.4	.000	6.23	109.5							0
1	1	15.46	15.46	33.514	24.726	320.9	.303	6.23	109.5	2.5	.42	.4	.00			1
	10 ISL	14.22	14.22	33.513	24.993	296.2	.031	5.87	100.6							10
1	11	14.13	14.13	33.508	25.008	294.3	.034	5.82	99.6	3.1	.56	2.9	.10	1.66	.81	11
	20 ISL	13.63	13.63	33.522	25.123	283.7	.360	5.32	90.2							20
1	21	13.61	13.61	33.524	25.128	283.2	.363	5.28	89.4	4.6	.76	5.9	.27	.77	.54	21
	30 ISL	13.53	13.53	33.526	25.146	281.7	.388	5.15	87.1							30
1	31	13.53	13.53	33.526	25.146	281.7	.391	5.15	87.1	5.2	.79	6.4	.30	.80	.43	31
1	41	13.25	13.25	33.533	25.208	276.1	.418	4.98	83.7	5.6	.85	7.5	.31	.56	.42	41
	50 ISL	12.42	12.41	33.557	25.391	258.9	.143	4.39	72.6							50
1	51	12.34	12.34	33.560	25.407	257.4	.145	4.34	71.6	7.9	1.01	10.9	.09	.02	.03	51
1	61	11.96	11.95	33.590	25.504	248.4	.170	4.00	65.5	9.2	1.13	12.6	.05	.25	.19	61
1	71	11.56	11.56	33.623	25.603	239.2	.194	4.00	64.9	11.2	1.21	14.6	.04	.12	.19	71
	75 ISL	11.36	11.35	33.642	25.656	234.2	.205	3.93	63.4							76
1	85	10.93	10.92	33.683	25.765	224.0	.227	3.73	59.7	14.5	1.37	17.5	.03	.11	.12	85
1	100	10.60	10.59	33.725	25.855	215.8	.259	3.59	57.1	16.5	1.51	19.2	.02	.05	.06	100
1	119	10.39	10.37	33.815	25.964	205.8	.301	3.29	52.1	19.0	1.64	21.2	.02	.03	.06	120
	125 ISL	10.19	10.17	33.836	26.015	201.1	.313	3.23	51.0							126
1	144	9.47	9.45	33.904	26.188	184.9	.350	3.06	47.5	24.4	1.80	24.3	.02	.02	.04	145
	150 ISL	9.37	9.36	33.924	26.218	182.1	.360	3.01	46.7							151
1	174	9.13	9.11	34.005	26.322	172.7	.403	2.76	42.6	28.7	1.95	26.3	.04			175
	200 ISL	8.78	8.76	34.093	26.446	161.3	.446	2.33	35.6							202
1	204	8.73	8.71	34.105	26.463	159.8	.453	2.26	34.6	35.0	2.16	28.7	.01			205
1	234	8.53	8.51	34.159	26.537	153.3	.499	1.89	28.8	38.8	2.27	29.7	.01			235
	250 ISL	8.47	8.44	34.188	26.570	150.4	.524	1.68	25.5							252
1	272	8.36	8.33	34.223	26.615	146.6	.557	1.41	21.4	43.5	2.47	31.9	.01			274
	300 ISL	8.07	8.04	34.243	26.674	141.3	.597	1.17	17.7							302
1	332	7.68	7.65	34.256	26.741	135.2	.641	.97	14.5	52.0	2.71	34.4	.01			334
	400 ISL	7.06	7.34	34.286	26.851	125.5	.730	.70	10.3							403
1	406	7.03	6.99	34.289	26.860	124.7	.739	.68	10.0	61.7	2.88	37.0	.00			409
1	481	6.47	6.42	34.314	26.956	116.3	.828	.44	6.4	70.2	3.02	39.3	.00			484
	500 ISL	6.35	6.30	34.323	26.979	114.2	.850	.40	5.8							504
1	555	6.05	6.00	34.357	27.044	108.5	.911	.32	4.6	77.2	3.14	40.5	.00			559

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 37.2 N	116 19.7 W	03/20/84	2346 GMT	2497 M	300	12 KT	310 05 07	1	1011.5 MB	18.6 C	16.7 C	1/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.68	16.68	33.464	24.411	350.9	.000	5.79	104.3	0.0	.28	.2	.04	.11	.01	0
	10 ISL	16.37	16.36	33.462	24.483	344.3	.035	5.80	104.4							10
1	11	16.35	16.34	33.462	24.487	343.9	.038	5.92	105.9	0.0	.28	.0	.00	.13	.01	11
	20 ISL	16.24	16.24	33.464	24.514	341.8	.069	5.81	103.8							20
1	21	16.24	16.23	33.464	24.515	341.7	.072	5.80	103.5	0.0	.27	.0	.00	.15	.01	21
	30 ISL	16.21	16.21	33.464	24.520	341.7	.103	5.77	102.9							30
1	31	16.21	16.21	33.464	24.521	341.4	.106	5.77	102.9	0.0	.27	.0	.00	.15	.01	31
1	41	16.17	16.16	33.464	24.530	340.9	.140	5.77	102.9	0.0	.27	.0	.00	.18	.01	41
	50 ISL	16.13	16.12	33.463	24.540	340.2	.171	5.77	102.8							50
1	51	16.12	16.11	33.463	24.541	340.1	.174	5.77	102.8	0.0	.27	.0	.00	.18	.05	51
1	61	16.02	16.01	33.457	24.559	338.8	.208	5.80	103.1	0.0	.27	.0	.00	.22	.07	61
1	72	15.59	15.58	33.431	24.637	331.6	.245	5.77	101.6	.3	.30	.0	.00	.31	.12	72
	75 ISL	15.31	15.30	33.418	24.688	326.8	.255	5.75	100.6							76
1	87	14.23	14.22	33.396	24.904	306.5	.292	5.58	95.6	.9	.40	.7	.02	.63	.30	87
	100 ISL	13.38	13.37	33.466	25.132	285.0	.332	5.21	87.7							101
1	102	13.29	13.27	33.476	25.158	282.5	.336	5.16	86.8	3.4	.61	4.3	.03	.30	.25	102
1	122	11.74	11.73	33.551	25.516	248.8	.392	4.71	76.7	8.3	.92	10.5	.01	.09	.08	123
	125 ISL	11.58	11.57	33.566	25.557	244.9	.398	4.61	74.8							126
1	146	10.43	10.42	33.703	25.868	215.5	.447	3.73	59.1	17.5	1.46	19.8	.01	.02	.03	147
	150 ISL	10.29	10.27	33.727	25.912	211.4	.455	3.64	57.4							151
1	176	9.51	9.49	33.875	26.159	188.3	.507	3.18	49.4	24.9	1.75	23.6	.01			177
	200 ISL	9.07	9.05	33.959	26.294	175.8	.551	2.93	45.1							202
1	206	8.99	8.96	33.974	26.321	173.4	.561	2.88	44.3	30.2	1.92	26.1	.01			207
1	235	8.51	8.48	34.030	26.439	162.5	.610	2.68	40.8	34.4	2.04	28.0	.01			236
	250 ISL	8.36	8.34	34.065	26.489	158.0	.634	2.48	37.6							252
1	275	8.17	8.14	34.116	26.559	151.8	.672	2.11	31.9	40.8	2.27	30.5	.01			276
	300 ISL	7.89	7.86	34.147	26.625	145.8	.710	1.78	26.8							302
1	333	7.50	7.47	34.172	26.701	138.9	.757	1.42	21.1	50.7	2.61	33.9	.00			335
	400 ISL	6.78	6.74	34.198	26.822	128.0	.846	.94	13.8							403
1	407	6.72	6.68	34.200	26.832	127.0	.855	.91	13.3	62.6	2.84	37.3	.00			409
1	482	6.24	6.20	34.274	26.934	116.3	.946	.55	7.9	72.4	3.04	39.5	.00			485
	500 ISL	6.14	6.09	34.289	26.979	114.0	.967	.49	7.1							504
1	558	5.81	5.77	34.330	27.053	107.5	1.032	.37	5.3	80.5	3.15	41.1	.00			562

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 27.2 N	116 39.5 W	03/21/84	0329 GMT	793 M	310	10 KT	280 05 06	0	1012.0 MB	17.5 C	16.2 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.82	16.82	33.516	24.419	350.1	.000	5.75	103.9	.4	.28	.2	.00	.14	.02	0
	10 ISL	16.82	16.82	33.519	24.422	350.1	.035	5.92	107.0							10
1	11	16.80	16.80	33.519	24.426	349.8	.038	5.93	107.1	.1	.26	.0	.00	.15	.01	11
	20 ISL	16.66	16.66	33.522	24.460	346.9	.070	5.87	105.8							20
1	26	16.57	16.57	33.523	24.483	344.8	.090	5.81	104.4	0.0	.25	.0	.00	.16	.02	26
	30 ISL	16.54	16.54	33.523	24.489	344.2	.104	5.82	104.5							30
1	40	16.51	16.50	33.521	24.497	344.0	.138	5.82	104.5	.2	.26	.0	.00	.17	.05	40
	50 ISL	16.49	16.48	33.520	24.501	343.8	.173	5.77	103.5							50
1	55	16.45	16.44	33.518	24.508	343.5	.190	5.75	103.1	.2	.24	.0	.00	.24	.05	55
1	67	16.05	16.04	33.465	24.560	338.8	.230	5.81	103.3	.2	.27	.0	.00	.29	.08	67
	75 ISL	15.14	15.13	33.397	24.708	324.8	.258	5.81	101.4							76
1	77	14.94	14.93	33.385	24.743	321.6	.263	5.79	100.6	.7	.32	.0	.00	.49	.22	77
1	91	14.03	14.01	33.387	24.938	303.2	.307	5.56	94.9	1.6	.42	.8	.05	.59	.45	91
	100 ISL	13.53	13.51	33.426	25.071	290.8	.335	5.37	90.7							101
1	106	13.20	13.18	33.456	25.161	282.3	.351	5.23	87.8	3.5	.59	4.2	.04	.25	.22	106
1	122	11.76	11.75	33.549	25.510	249.3	.393	4.68	76.2	8.1	.93	10.4	.01	.08	.08	122
	125 ISL	11.53	11.51	33.564	25.565	244.1	.402	4.58	74.2							126
1	146	10.43	10.41	33.655	25.831	219.0	.451	4.03	63.8	15.5	1.34	17.4	.01	.05	.03	147
	150 ISL	10.28	10.26	33.671	25.871	215.3	.459	3.96	62.5							151
1	166	9.72	9.70	33.766	26.039	199.5	.493	3.62	56.5	20.8	1.63	21.5	.01	.04	.02	167
1	186	9.26	9.24	33.944	26.254	179.4	.530	3.03	46.8	27.0	1.85	25.1	.01			187
	200 ISL	9.34	9.32	34.012	26.293	176.0	.555	2.74	42.5							202
1	206	9.40	9.37	34.031	26.300	175.5	.566	2.65	41.1	28.5	2.03	26.0	.00			207
1	236	9.00	8.97	34.093	26.413	165.3	.616	2.41	37.1	32.8	2.13	27.7	.01			237
	250 ISL	8.82	8.79	34.138	26.476	159.4	.639	2.13	32.6							252
1	276	8.49	8.46	34.211	26.585	149.5	.679	1.60	24.3	41.1	2.44	31.1	.00			277
	300 ISL	8.14	8.10	34.215	26.642	143.8	.715	1.38	20.9							302
1	336	7.65	7.62	34.217	26.715	137.8	.766	1.20	17.9	50.1	2.66	34.2	.00			338
	400 ISL	7.19	7.15	34.278	26.829	127.7	.850	.70	10.4							403
1	411	7.13	7.09	34.288	26.845	126.2	.864	.63	9.3	59.7	2.94	37.0	.01			413
1	485	6.60	6.56	34.321	26.944	117.7	.954	.44	6.4	68.2	3.07	39.2	.00			488
	500 ISL	6.46	6.41	34.325	26.967	115.6	.972	.41	6.0							504
1	559	5.75	5.70	34.338	27.067	106.1	1.036	.34	4.9	81.2	3.18	41.7	.01			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 17.6 N	116 59.3 W	03/21/84	0738 GMT	2980 M	330	08 KT	300 03 06	0	1013.5 MB	17.2 C	15.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.76	16.76	33.504	24.424	350.0	.000	5.70	102.8							0
1	1	16.76	16.76	33.504	24.424	349.7	.003	5.70	102.8	2.7	.30	.2	.00	.11	.01	1
	10 ISL	16.76	16.75	33.502	24.423	349.7	.035	5.85	105.6							10
1	12	16.75	16.75	33.501	24.424	350.0	.042	5.87	105.9	2.4	.28	.1	.00	.14	.02	12
	20 ISL	16.60	16.60	33.495	24.454	347.4	.070	5.83	104.9							20
1	27	16.46	16.46	33.491	24.484	344.8	.094	5.79	103.8	2.2	.28	.1	.00	.11	.02	27
	30 ISL	16.42	16.42	33.489	24.491	344.2	.104	5.78	103.5							30
1	42	16.33	16.33	33.481	24.506	343.2	.145	5.74	102.7	2.3	.27	.1	.00	.15	.02	42
	50 ISL	16.32	16.31	33.480	24.509	343.2	.173	5.74	102.5							50
1	57	16.31	16.30	33.478	24.510	343.2	.196	5.73	102.4	2.5	.27	.1	.00	.21	.01	57
1	66	15.81	15.80	33.437	24.592	335.7	.227	5.78	102.3	2.5	.30	.1	.00	.24	.07	66
	75 ISL	15.66	15.65	33.426	24.617	333.6	.258	5.78	102.0							76
1	77	15.63	15.62	33.425	24.624	333.0	.264	5.78	101.9	2.3	.29	.1	.00	.29	.08	77
1	93	14.31	14.30	33.411	24.898	307.2	.315	5.53	94.9	3.1	.41	.5	.04	.61	.42	93
	100 ISL	13.65	13.64	33.422	25.044	293.5	.337	5.35	90.5							101
1	106	13.19	13.18	33.440	25.150	283.4	.353	5.20	87.2	5.1	.59	6.1	.03	.17	.24	106
1	121	12.47	12.45	33.533	25.363	263.4	.394	4.88	80.7	7.2	.75	7.4	.02	.10	.12	121
	125 ISL	12.23	12.21	33.543	25.418	258.2	.405	4.80	79.0							126
1	145	11.15	11.13	33.598	25.660	235.4	.456	4.42	71.1	12.4	1.06	13.0	.01	.04	.05	146
	150 ISL	10.91	10.89	33.620	25.720	229.8	.466	4.29	68.7							151
1	165	10.17	10.15	33.708	25.918	211.1	.500	3.85	60.6	19.1	1.43	18.7	.01	.04	.00	166
1	185	9.38	9.36	33.858	26.167	187.6	.540	3.30	51.1	26.4	1.73	23.4	.00			186
	200 ISL	9.05	9.03	33.924	26.271	178.0	.567	3.11	47.9							202
1	205	8.98	8.95	33.940	26.296	175.7	.576	3.07	47.2	30.1	1.85	25.4	.00			206
1	235	8.58	8.55	34.021	26.422	164.2	.626	2.71	41.3	34.9	2.01	27.6	.00			236
	250 ISL	8.39	8.37	34.047	26.471	159.7	.651	2.56	38.8							252
1	274	8.11	8.09	34.078	26.537	153.7	.688	2.32	35.0	40.9	2.19	29.8	.01			275
	300 ISL	7.79	7.76	34.112	26.612	146.9	.728	1.97	29.4							302
1	334	7.42	7.39	34.154	26.698	139.1	.776	1.50	22.3	52.4	2.53	33.9	.00			336
	400 ISL	7.08	7.04	34.243	26.817	128.7	.865	.84	12.4							403
1	410	7.04	7.00	34.254	26.831	127.6	.877	.77	11.3	62.3	2.84	36.5	.01			412
1	484	6.51	6.46	34.289	26.931	118.7	.968	.48	7.0	72.6	2.99	38.6	.01			487
	500 ISL	6.38	6.33	34.298	26.956	116.5	.987	.43	6.3							504
1	559	5.85	5.81	34.337	27.053	107.5	1.054	.30	4.3	86.4	3.14	41.0	.01			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 07.2 N	117 19.0 W	03/21/84	1041 GMT	3360 M	330	13 KT		4	1013.5 MB	15.3 C	14.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.66	16.66	33.491	24.437	348.0	.000	5.70	102.6							0
1	1	16.66	16.66	33.491	24.437	348.6	.003	5.70	102.6	2.4	.30	.2	.00	.12	.01	1
	10 ISL	16.66	16.66	33.491	24.437	348.5	.035	5.80	104.5							10
1	12	16.67	16.66	33.492	24.437	348.9	.042	5.81	104.6	2.1	.28	.1	.00	.12	.02	12
	20 ISL	16.59	16.59	33.491	24.453	347.5	.070	5.80	104.3							20
1	22	16.57	16.56	33.490	24.459	347.0	.076	5.77	103.7	2.2	.29	.1	.00	.12	.01	22
	30 ISL	16.43	16.42	33.488	24.489	344.4	.104	5.72	102.4							30
1	31	16.42	16.41	33.488	24.492	344.2	.107	5.71	102.3	2.1	.27	.1	.00	.11	.02	31
1	42	16.39	16.38	33.488	24.499	343.8	.145	5.72	102.4	2.0	.27	.1	.00	.12	.02	42
	50 ISL	16.36	16.35	33.487	24.506	343.5	.173	5.74	102.6							50
1	52	16.35	16.34	33.487	24.508	343.4	.179	5.74	102.7	2.0	.28	.1	.00	.15	.02	52
1	62	16.30	16.29	33.490	24.522	342.3	.213	5.77	103.1	2.0	.28	.1	.00	.18	.02	62
1	73	16.28	16.27	33.485	24.522	342.6	.251	5.71	102.0	2.2	.29	.1	.00	.21	.03	73
	75 ISL	16.16	16.15	33.473	24.540	341.0	.259	5.70	101.6							76
1	86	15.21	15.20	33.410	24.704	325.6	.301	5.70	99.6	2.3	.34	.1	.00	.30	.18	86
	100 ISL	14.14	14.12	33.411	24.935	303.9	.340	5.43	92.9							101
1	103	13.91	13.89	33.418	24.987	298.9	.348	5.36	91.2	3.6	.47	1.6	.03	.43	.29	103
1	123	12.48	12.47	33.505	25.340	265.6	.404	4.86	80.4	7.4	.79	7.5	.01	.08	.16	123
	125 ISL	12.31	12.29	33.515	25.381	261.8	.410	4.80	79.1							126
1	147	10.89	10.87	33.622	25.726	229.2	.465	4.24	67.8	14.2	1.18	14.6	.00	.02	.04	148
	150 ISL	10.74	10.72	33.640	25.767	225.3	.471	4.16	66.4							151
1	177	9.50	9.49	33.839	26.131	190.9	.528	3.43	53.3	24.3	1.66	22.3	.00			178
	200 ISL	9.10	9.08	33.954	26.287	176.5	.570	3.03	46.7							202
1	207	9.02	9.00	33.979	26.319	173.6	.592	2.94	45.2	30.4	1.90	25.5	.00			208
1	238	8.44	8.41	34.046	26.463	160.3	.633	2.58	39.2	36.4	2.08	28.3	.00			239
	250 ISL	8.27	8.24	34.077	26.514	155.6	.653	2.37	35.8							252
1	275	7.97	7.94	34.132	26.602	147.6	.690	1.93	29.0	44.8	2.39	31.3	.00			276
	300 ISL	7.61	7.58	34.147	26.666	141.7	.727	1.65	24.7							302
1	334	7.18	7.15	34.155	26.733	135.7	.774	1.37	20.2	55.9	2.64	34.7	.01			336
	400 ISL	6.78	6.74	34.247	26.861	124.3	.860	.72	10.5							403
1	409	6.74	6.71	34.259	26.875	123.0	.870	.65	9.5	67.5	2.91	37.7	.01			411
1	484	6.27	6.23	34.299	26.970	114.8	.960	.44	6.4	77.4	3.07	39.7	.01			487
	500 ISL	6.17	6.13	34.307	26.989	113.2	.978	.40	5.8							504
1	559	5.84	5.79	34.333	27.053	107.5	1.044	.30	4.3	85.9	3.17	41.1	.01			563

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 57.2 N	117 38.7 W	03/21/84	1422 GMT	3550 M	330	16 KT	310 04 05	1	1014.2 MB	15.2 C	13.7 C	7/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	STO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	0	16.49	16.49	33.508	24.490	343.3	.000	5.71	102.5	2.1	.26	.1	.00	.09	.02	0
1	9	16.49	16.49	33.505	24.487	343.9	.031	5.69	102.1	1.9	.26	.0	.00	.08	.02	9
	10 ISL	16.48	16.46	33.505	24.489	344.2	.034	5.70	102.2							10
1	19	16.48	16.48	33.503	24.488	344.2	.065	5.75	103.2	1.8	.25	.0	.00	.08	.02	19
	20 ISL	16.47	16.46	33.502	24.490	343.9	.069	5.75	103.1							20
1	29	16.35	16.35	33.502	24.517	341.8	.099	5.70	102.0	1.7	.26	.0	.00	.08	.02	29
	30 ISL	16.35	16.35	33.502	24.518	341.7	.103	5.71	102.1							30
1	39	16.33	16.32	33.505	24.525	341.2	.133	5.71	102.1	1.7	.28	.0	.00	.10	.02	39
1	49	16.27	16.26	33.501	24.537	340.5	.167	5.73	102.6	1.8	.27	.0	.00	.10	.02	49
	50 ISL	16.26	16.25	33.501	24.538	340.4	.171	5.73	102.3							50
1	60	16.22	16.21	33.498	24.547	339.9	.205	5.73	102.2	1.6	.25	.0	.00	.13	.05	60
1	70	16.15	16.14	33.488	24.555	339.5	.238	5.72	101.9	1.8	.26	.0	.00	.14	.05	70
	75 ISL	16.02	16.01	33.488	24.583	336.9	.256	5.72	101.6							76
1	85	15.64	15.63	33.479	24.663	329.5	.288	5.70	100.5	2.1	.30	.0	.00	.29	.28	85
1	100	14.66	14.64	33.419	24.832	313.8	.336	5.65	97.7	2.4	.35	.1	.02	.54	.35	100
1	119	13.21	13.20				.394									120
	125 ISL	12.75	12.74	33.504	25.287	270.8	.411	5.06	84.2							126
1	144	11.43	11.41	33.572	25.590	242.2	.460	4.50	72.8	11.3	.98	11.8	.01	.05	.06	145
	150 ISL	11.18	11.16	33.591	25.650	236.6	.474	4.39	70.7							151
1	175	10.32	10.30	33.686	25.876	215.4	.531	3.96	62.6	18.1	1.35	18.0	.00			176
	200 ISL	9.44	9.42	33.831	26.136	190.9	.581	3.53	54.7							202
1	205	9.28	9.26	33.860	26.185	186.3	.591	3.44	53.2	25.8	1.65	23.2	.00			206
1	234	8.64	8.61	33.978	26.379	168.3	.642	2.92	44.5	33.1	1.92	26.8	.00			235
	250 ISL	8.61	8.58	34.062	26.450	161.9	.668	2.52	38.4							252
1	275	8.59	8.56	34.161	26.530	154.7	.707	1.93	29.6	40.7	2.25	29.9	.00			276
	300 ISL	8.28	8.25	34.196	26.604	148.0	.746	1.60	24.3							302
1	334	7.76	7.73	34.199	26.685	140.6	.795	1.34	20.1	51.2	2.55	33.6	.00			336
	400 ISL	6.96	6.92	34.205	26.803	129.9	.864	.97	14.2							403
1	406	6.88	6.84	34.206	26.815	128.8	.894	.93	13.6	62.9	2.78	37.1	.01			410
1	483	6.32	6.27	34.291	26.958	116.0	.986	.43	6.2	76.4	2.99	39.6	.01			486
	500 ISL	6.22	6.17	34.306	26.983	113.8	1.006	.32	4.6							504
1	557	5.94	5.89	34.341	27.046	108.3	1.069	.29	4.2	85.0	3.13	41.1	.01			561

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 110 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 47.6 N	117 58.2 W	03/03/84	1712 GMT	3549 M	340	18 KT	350 06 10	2	1015.3 MB	15.4 C	13.5 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.10	16.10	33.496	24.568	335.9	.000	5.72	101.9							0
1	1	16.10	16.10	33.496	24.568	336.0	.003	5.72	101.9	2.7	.30	.3	.00	.11	.05	1
	10 ISL	16.13	16.13	33.494	24.562	336.8	.034	5.70	101.6							10
1	12	16.13	16.13	33.494	24.562	336.9	.040	5.70	101.5	2.7	.31	.3	.00	.12	.05	12
	20 ISL	16.11	16.11	33.493	24.565	336.8	.067	5.70	101.6							20
1	27	16.10	16.09	33.492	24.568	336.9	.091	5.71	101.7	2.7	.30	.3	.00	.12	.06	27
	30 ISL	16.10	16.10	33.494	24.568	336.9	.101	5.70	101.6							30
1	42	16.14	16.14	33.502	24.566	337.5	.141	5.69	101.4	2.7	.30	.3	.00	.13	.07	42
	50 ISL	16.14	16.13	33.502	24.568	337.5	.168	5.72	101.8							50
1	57	16.13	16.12	33.503	24.570	337.5	.191	5.73	102.1	2.7	.30	.3	.00	.14	.09	57
1	69	16.12	16.11	33.503	24.573	337.6	.228	5.68	101.2	2.7	.30	.3	.00	.14	.08	68
	75 ISL	16.11	16.10	33.503	24.574	337.8	.253	5.68	101.2							76
1	78	16.11	16.10	33.504	24.575	337.8	.262	5.68	101.1	2.7	.30	.3	.00	.16	.09	78
1	93	16.10	16.09	33.507	24.581	337.6	.312	5.67	100.9	2.7	.30	.3	.00	.17	.11	93
	100 ISL	15.15	15.14	33.484	24.775	319.3	.337	5.54	96.7							101
1	109	14.04	14.02	33.477	25.006	297.3	.360	5.36	91.5	4.5	.51	2.1	.07	.22	.24	108
1	124	12.92	12.90	33.536	25.280	271.5	.405	5.01	83.6	6.9	.73	5.9	.02	.11	.16	124
	125 ISL	12.78	12.77	33.560	25.308	268.8	.409	4.96	82.5							126
1	146	11.01	10.99	33.629	25.710	230.6	.468	4.11	65.9	15.4	1.28	15.4	.01	.03	.05	149
	150 ISL	10.95	10.93	33.641	25.729	228.9	.471	4.05	64.9							151
1	170	10.51	10.49	33.796	25.927	210.5	.516	3.44	54.6	20.9	1.58	20.1	.00	.01	.02	171
1	191	10.16	10.14	33.907	26.075	195.8	.558	3.07	48.4	25.0	1.77	22.8	.00			192
	200 ISL	9.91	9.89	33.970	26.167	188.3	.576	2.88	45.1							202
1	211	9.61	9.59	34.042	26.273	178.3	.596	2.65	41.3	30.3	1.97	25.7	.00			212
1	242	9.23	9.20	34.111	26.390	167.7	.649	2.34	36.2	34.7	2.12	27.6	.03			243
	250 ISL	9.12	9.09	34.128	26.422	164.8	.663	2.23	34.5							252
1	283	8.66	8.65	34.187	26.536	154.3	.715	1.82	27.8	41.3	2.35	30.1	.00			284
	300 ISL	8.49	8.46	34.204	26.579	150.5	.741	1.67	25.4							302
1	345	8.04	8.00	34.229	26.668	142.6	.807	1.35	20.3	49.3	2.60	33.0	.01			347
	400 ISL	7.41	7.37	34.267	26.790	131.6	.883	.91	13.5							403
1	423	7.18	7.14	34.283	26.835	127.4	.912	.75	11.1	61.8	2.87	37.0	.00			425
1	500	6.71	6.66	34.345	26.949	117.5	1.006	.43	6.3	69.5	3.04	38.9	.00			503
1	578	6.14	6.08	34.378	27.051	108.4	1.095	.30	4.3	78.4	3.14	41.1	.00			582

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 110 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 36.4 N	118 19.0 W	03/03/84	1211 GMT		340	19 KT	350 06 10	1	1014.9 MB	15.5 C	13.8 C	3/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.06	16.06	33.464	24.555	337.1	.000	5.75	102.3							0
1	1	16.06	16.06	33.464	24.555	337.2	.003	5.75	102.3	2.9	.29	.3	.00	.10	.04	1
	10 ISL	16.07	16.07	33.463	24.551	337.8	.034	5.76	102.5							10
1	12	16.07	16.07	33.463	24.551	337.9	.040	5.76	102.5	3.0	.29	.2	.00	.10	.05	12
	20 ISL	16.07	16.07	33.461	24.550	338.2	.068	5.76	102.4							20
1	27	16.07	16.06	33.461	24.551	338.4	.091	5.75	102.3	2.9	.29	.2	.00	.11	.04	27
	30 ISL	16.06	16.05	33.457	24.550	338.6	.101	5.75	102.2							30
1	42	16.06	16.05	33.456	24.550	339.0	.142	5.74	102.1	2.9	.29	.2	.00	.12	.04	42
	50 ISL	15.99	15.98	33.447	24.558	338.4	.169	5.75	102.1							50
1	57	15.92	15.91	33.439	24.567	337.8	.192	5.76	102.2	2.8	.29	.2	.00	.15	.09	57
1	72	15.84	15.82	33.431	24.581	336.9	.243	5.74	101.6	3.0	.30	.2	.00	.18	.11	72
	75 ISL	15.80	15.79	33.428	24.587	336.5	.254	5.74	101.5							76
1	82	15.78	15.77	33.428	24.591	336.3	.276	5.74	101.5	3.0	.33	.2	.00	.21	.15	82
1	98	14.56	14.54	33.410	24.846	312.3	.328	5.59	96.4	3.8	.43	.6	.08	.32	.41	98
	100 ISL	14.40	14.38	33.420	24.887	308.5	.335	5.54	95.3							101
1	118	13.32	13.30	33.499	25.171	281.7	.387	5.12	86.1	6.0	.66	4.7	.04	.13	.21	118
	125 ISL	12.86	12.84	33.503	25.264	273.0	.408	5.01	83.5							126
1	137	12.10	12.08	33.520	25.425	257.8	.441	4.75	77.9	9.6	.94	9.1	.02	.06	.14	138
	150 ISL	11.25	11.23	33.622	25.661	235.5	.472	4.16	67.1							151
1	157	10.83	10.81	33.697	25.796	222.8	.488	3.80	60.7	17.8	1.44	17.4	.01	.02	.04	158
1	177	10.39	10.37	33.896	26.020	201.8	.531	3.24	51.3	23.1	1.71	21.4	.02	.00	.03	178
1	198	9.87	9.85	33.980	26.181	186.8	.571	2.94	46.1	27.5	1.86	23.5	.01			199
	200 ISL	9.84	9.82	33.989	26.194	185.7	.575	2.91	45.6							202
1	218	9.56	9.54	34.061	26.296	176.2	.607	2.62	40.8	31.2	2.00	25.6	.02			219
	250 ISL	9.23	9.20	34.174	26.440	163.2	.662	2.07	32.1							252
1	253	9.20	9.17	34.181	26.449	162.3	.666	2.03	31.4	36.7	2.25	28.0	.00			254
	300 ISL	8.71	8.69	34.244	26.577	150.9	.740	1.52	23.2							302
1	303	8.67	8.64	34.245	26.584	150.3	.745	1.49	22.9	43.2	2.48	30.8	.00			305
1	359	7.95	7.91	34.263	26.708	139.0	.826	1.11	16.7	51.9	2.70	33.3	.00			361
	400 ISL	7.40	7.36	34.261	26.787	131.9	.881	.90	13.4							403
1	444	6.87	6.83	34.260	26.860	125.2	.938	.73	10.7	64.8	2.92	37.3	.00			447
	500 ISL	6.44	6.40	34.287	26.938	118.2	1.006	.56	8.2							504
1	531	6.25	6.21	34.305	26.978	114.7	1.042	.49	7.1	73.8	3.07	39.6	.00			534
	600 ISL	5.79	5.74	34.345	27.068	106.6	1.118	.35	5.0							605
1	616	5.68	5.63	34.354	27.088	104.7	1.135	.32	4.6	84.7	3.17	41.7	.01			620

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 110 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
28 16.8 N	118 58.8 W	03/03/84	0535 GMT		330	17 KT	340 04 08	1	1015.1 MB	16.4 C	15.0 C	4/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.48	16.48	33.562	24.533	339.2	.000	5.67	101.8							0
1	1	16.48	16.48	33.562	24.533	339.3	.003	5.67	101.8	2.5	.30	.3	.00	.09	.04	1
	10 ISL	16.50	16.49	33.562	24.530	339.9	.034	5.74	103.1							10
1	12	16.50	16.50	33.562	24.530	340.0	.041	5.75	103.2	2.5	.30	.3	.00	.08	.04	12
	20 ISL	16.49	16.49	33.562	24.531	340.0	.068	5.74	103.0							20
1	27	16.48	16.48	33.562	24.533	340.1	.091	5.73	102.8	2.5	.30	.3	.00	.08	.04	27
	30 ISL	16.47	16.46	33.561	24.536	339.9	.102	5.72	102.5							30
1	42	16.40	16.39	33.552	24.546	339.3	.142	5.67	101.6	2.5	.30	.3	.00	.09	.05	42
	50 ISL	16.36	16.35	33.545	24.550	339.3	.170	5.69	101.8							50
1	57	16.34	16.33	33.542	24.552	339.3	.193	5.70	102.0	2.4	.30	.3	.00	.08	.05	57
1	67	16.33	16.32	33.543	24.555	339.4	.227	5.67	101.4	2.7	.31	.3	.00	.12	.05	67
	75 ISL	16.31	16.30	33.543	24.559	339.0	.255	5.67	101.4							76
1	77	16.22	16.21	33.541	24.579	337.3	.260	5.66	101.0	2.8	.34	.3	.00	.14	.11	77
1	93	14.31	14.30	33.563	25.015	296.1	.311	5.23	89.9	4.9	.57	2.5	.11	.31	.34	93
	100 ISL	13.57	13.56	33.553	25.184	280.1	.332	4.89	82.7							101
1	108	12.98	12.97	33.612	25.325	266.8	.353	4.42	73.9	9.5	.95	9.0	.03	.11	.19	109
1	122	12.59	12.58				.391	3.11	51.6	16.2	1.50	16.4	.02	.06	.09	123
	125 ISL	12.52	12.50	33.739	25.491	251.4	.398	2.78	46.1							126
1	147	11.96	11.94	33.831	25.693	232.6	.452	2.74	44.9	19.9	1.70	19.3	.02	.01	.02	148
	150 ISL	11.90	11.88	33.845	25.716	230.6	.458	2.71	44.3							151
1	168	11.45	11.43	33.921	25.858	217.3	.499	2.56	41.5	22.5	1.80	21.5	.01	.00	.02	169
1	188	10.69	10.66	33.973	26.001	204.1	.541	2.57	41.2	25.1	1.89	22.8	.01			189
	200 ISL	10.34	10.31	33.949	26.079	196.8	.565	2.86	45.2							202
1	209	9.94	9.92	33.937	26.136	191.4	.582	3.04	47.7	26.2	1.84	23.3	.01			210
1	240	9.59	9.56	34.119	26.337	172.8	.638	2.26	35.2	32.6	2.11	26.7	.00			241
	250 ISL	9.44	9.41	34.151	26.387	168.3	.656	2.10	32.7							252
1	282	8.94	8.91	34.203	26.509	157.1	.707	1.76	27.1	39.6	2.31	29.0	.00			283
	300 ISL	8.64	8.61	34.215	26.565	152.0	.736	1.60	24.4							302
1	343	8.00	7.96	34.226	26.672	142.2	.799	1.29	19.4	49.6	2.59	32.8	.00			345
	400 ISL	7.36	7.32	34.260	26.792	131.4	.877	.87	12.8							403
1	420	7.18	7.14	34.271	26.826	128.3	.902	.74	10.9	61.0	2.83	36.3	.00			422
1	498	6.54	6.50	34.301	26.936	118.5	.999	.46	6.7	70.5	3.01	39.0	.00			501
	500 ISL	6.53	6.48	34.302	26.939	118.2	1.001	.45	6.6							504
1	576	6.12	6.06	34.334	27.019	111.4	1.089	.32	4.6	77.5	3.09	40.7				580

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 110 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 55.8 N	119 39.3 W	03/02/84	2319 GMT	3980 M	340	15 KT	350 05 08	1	1015.1 MB	17.7 C	15.2 C	1/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0 ISL	16.87	16.87	33.597	24.469	345.6	.000	5.68	102.7							0
1	1	16.87	16.87	33.597	24.469	345.4	.003	5.68	102.7	2.5	.26	.2	.00	.07	.03	1
	10 ISL	16.77	16.77	33.594	24.490	343.6	.034	5.68	102.5							10
1	11	16.76	16.76	33.594	24.492	343.5	.038	5.67	102.3	2.5	.26	.2	.00	.07	.03	11
	20 ISL	16.69	16.69	33.591	24.507	342.4	.069	5.69	102.5							20
1	26	16.66	16.66	33.588	24.512	342.1	.089	5.70	102.7	2.5	.25	.2	.00	.08	.04	26
	30 ISL	16.66	16.65	33.586	24.512	342.2	.103	5.69	102.6							30
1	41	16.65	16.65	33.583	24.511	342.7	.140	5.67	102.1	2.5	.25	.2	.00	.09	.05	41
	50 ISL	16.64	16.63	33.581	24.514	342.8	.172	5.75	103.5							50
1	56	16.62	16.61	33.579	24.515	342.6	.191	5.78	104.0	2.7	.32	.3	.00	.10	.04	56
1	66	16.61	16.60	33.578	24.519	342.8	.226	5.65	101.6	2.6	.29	.3	.00	.12	.03	66
1	75	16.59	16.58	33.577	24.521	342.8	.256	5.67	102.0	2.5	.30	.2	.00	.13	.08	75
1	90	16.51	16.49	33.569	24.536	341.9	.307	5.67	101.8	2.6	.30	.3	.00	.20	.13	90
	100 ISL	15.30	15.29	33.489	24.745	322.1	.342	5.54	97.0							101
1	105	14.73	14.71	33.466	24.853	312.0	.356	5.47	94.7	4.1	.46	.8	.08	.26	.24	105
1	120	14.10	14.09	33.552	25.051	293.4	.401	5.33	91.2	5.1	.55	2.9	.11	.19	.25	120
	125 ISL	13.81	13.79	33.555	25.114	287.5	.417	5.19	88.2							126
1	144	12.62	12.60	33.572	25.365	263.9	.471	4.49	74.5	9.7	.99	9.9	.02	.07	.15	145
	150 ISL	12.24	12.22	33.611	25.470	253.9	.485	4.24	69.8							151
1	163	11.34	11.32	33.715	25.719	230.4	.518	3.73	60.3	17.0	1.42	16.8	.02	.02	.04	164
1	183	10.26	10.24	33.794	25.969	206.7	.561	3.62	57.2	21.8	1.64	20.2	.02			184
	200 ISL	9.86	9.83	33.842	26.076	196.8	.595	3.44	53.9							201
1	203	9.80	9.78	33.850	26.092	195.4	.601	3.41	53.3	24.6	1.73	22.2	.01			204
1	233	9.04	9.01	33.985	26.322	173.9	.656	3.36	51.7	30.3	1.88	24.7	.00			234
	250 ISL	8.75	8.73	34.044	26.413	165.4	.685	3.03	46.3							252
1	273	8.44	8.41	34.101	26.506	156.9	.722	2.50	38.0	38.5	2.17	28.2	.00			274
	300 ISL	7.98	7.95	34.132	26.599	148.3	.763	2.08	31.2							302
1	332	7.50	7.47	34.151	26.665	143.4	.810	1.67	24.8	51.1	2.53	33.2	.00			334
	400 ISL	7.01	6.98	34.232	26.818	128.6	.901	.90	13.3							403
1	407	6.98	6.94	34.240	26.828	127.7	.910	.84	12.3	62.0	2.89	36.7	.00			409
1	483	6.44	6.40	34.302	26.950	116.9	1.003	.44	6.4	72.1	3.07	39.5	.00			486
	500 ISL	6.34	6.30	34.316	26.974	114.7	1.023	.42	6.0							504
1	559	6.04	5.99	34.361	27.049	108.2	1.088	.41	5.9	79.7	3.17	41.1	.00			562

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 110 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
27 37.9 N	120 14.8 W	03/02/84	1619 GMT		360	21 KT	350 06 09	1	1019.0 MB	17.0 C	14.5 C	3/8	SC

CAST	DEPTH M		TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
	0	ISL	17.70	17.70	33.935	24.530	339.5	.000	5.62	103.5							0
1	1		17.70	17.70	33.935	24.530	339.6	.003	5.62	103.5	2.5	.29	.2	.00	.05	.03	1
	10	ISL	17.73	17.72	33.936	24.525	340.3	.034	5.59	103.0							10
1	12		17.73	17.72	33.936	24.526	340.4	.041	5.58	102.8	2.5	.30	.2	.00	.05	.03	12
	20	ISL	17.70	17.70	33.935	24.531	340.2	.068	5.54	102.0							20
1	27		17.68	17.68	33.934	24.535	340.0	.092	5.50	101.3	2.5	.29	.2	.00	.05	.04	27
	30	ISL	17.69	17.68	33.934	24.533	340.3	.102	5.48	101.0							30
1	42		17.72	17.71	33.933	24.526	341.4	.142	5.48	101.0	2.5	.30	.2	.00	.05	.04	42
	50	ISL	17.72	17.71	33.935	24.528	341.5	.170	5.49	101.2							50
1	58		17.72	17.71	33.936	24.529	341.7	.197	5.50	101.3	2.5	.29	.2	.00	.06	.04	58
1	68		17.74	17.73	33.947	24.532	341.7	.231	5.48	101.0	2.5	.29	.2	.00	.06	.03	68
	75	ISL	17.80	17.79	33.979	24.543	341.0	.256	5.51	101.6							76
1	78		17.82	17.81	33.990	24.547	340.7	.265	5.52	101.9	2.4	.29	.2	.00	.07	.04	78
1	93		17.79	17.78	33.990	24.554	340.5	.316	5.59	103.2	2.4	.29	.2	.00	.08	.05	93
	100	ISL	17.72	17.70	33.977	24.563	340.0	.341	5.56	102.5							101
1	108		17.64	17.62	33.964	24.571	339.4	.367	5.54	101.9	2.4	.29	.2	.00	.12	.08	108
1	125				33.834			.417	5.35	95.0	3.5	.44	.8	.08	.19	.18	124
	125	ISL	15.87	15.85	33.817	24.874	306.2	.423	5.32	94.4							126
1	148		13.03	13.01	33.649	25.346	265.9	.490	4.93	82.5	7.7	.79	6.9	.02	.08	.10	149
	150	ISL	12.92	12.90	33.642	25.362	264.4	.494	4.92	82.1							151
1	169		11.62	11.60	33.599	25.539	247.8	.543	4.71	76.8	10.6	.99	10.4	.01	.04	.07	170
1	189		10.49	10.47	33.701	25.858	217.5	.590	4.20	66.6	17.1	1.33	16.4	.00			190
	200	ISL	10.12	10.09	33.764	25.972	206.8	.613	3.95	62.1							201
1	210		9.66	9.64	33.821	26.059	198.6	.633	3.74	58.5	22.4	1.62	20.6	.00			211
1	240		8.91	8.89	33.980	26.338	172.4	.688	3.30	50.6	30.2	1.88	24.9	.00			241
	250	ISL	8.73	8.71	34.006	26.386	167.9	.705	3.20	48.9							252
1	282		8.36	8.33	34.053	26.480	159.4	.757	2.90	44.0	32.8	2.08	28.0	.00			283
	300	ISL	8.14	8.11	34.084	26.538	154.2	.786	2.59	39.1							302
1	343		7.67	7.63	34.146	26.657	143.4	.850	1.86	27.8	49.2	2.48	32.8	.00			345
	400	ISL	7.07	7.03	34.195	26.780	132.2	.929	1.32	19.4							403
1	420		6.91	6.87	34.212	26.816	129.0	.954	1.17	17.2							422
1	493		6.70	6.66	34.337	26.943	118.0	1.051	.46	6.7	69.2	3.06	39.1	.00			501
	500	ISL	6.69	6.64	34.334	26.943	117.7	1.053	.39	5.7							504
1	575		5.95	5.90	34.334	27.040	109.1	1.139	.39	5.6	79.9	3.17	41.4	.00			579

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 61.7 51.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 37.2 N	122 44.6 W	02/10/84	1624 GMT	51 M	340	13 KT	280 07 09	1	1022.7 MB	10.8 C	8.1 C	1/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.92	12.92	32.724	24.647	328.7	.033	6.15	102.2	4.0	.44	.5	.09	2.70	.48	10

STATION 61.7 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 29.3 N	123 02.0 W	02/10/84	1325 GMT	520 M	350	17 KT	300 06 08	1	1021.3 MB	11.0 C	8.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.08	13.08	32.886	24.741	319.7	.032	6.21	103.6	4.3	.36	.0	.03	.39	.15	10

STATION 61.7 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 19.2 N	123 23.7 W	02/10/84	1006 GMT	2040 M	330	15 KT		1	1021.3 MB	11.2 C	8.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.94	12.94	32.434	24.418	350.4	.035	6.30	104.5	5.8	.34	.0	.02	.25	.12	10

STATION 65.0 50.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
37 03.7 N	122 17.9 W	02/11/84	1425 GMT	37 M	360	11 KT	290 03 09	1	1024.0 MB	8.3 C	7.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.03	13.03	33.206	24.998	295.2	.030	5.91	98.7	4.8	.58	2.5	.12	1.00	.48	10

STATION 65.0 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 54.9 N	122 37.5 W	02/11/84	1139 GMT	1570 M	360	09 KT		1	1024.0 MB	12.1 C	8.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.08	13.08	32.750	24.635	329.7	.033	6.22	103.7	3.0	.35	.1	.00	.35	.16	10

STATION 65.0 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 44.9 N	122 59.0 W	02/11/84	0823 GMT	2970 M	350	11 KT			1024.7 MB	11.9 C	8.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.61	12.61	32.778	24.749	319.0	.032	6.27	103.5	3.0	.33	.1	.00	.49	.20	10

STATION 68.3 51.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 27.6 N	121 58.3 W	02/13/84	0051 GMT	108 M	310	05 KT	260 04 08	2	1022.4 MB	13.5 C	12.8 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.37	13.37	33.259	24.971	297.8	.030	6.25	105.1	3.9	.41	.3	.03	1.70	.35	10

STATION 68.3 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 20.6 N	122 13.1 W	02/12/84	2247 GMT	980 M	170	03 KT	260 03 06	2	1022.7 MB	13.8 C	13.5 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.54	13.54	33.154	24.856	308.8	.031	6.16	103.9	2.5	.37	.0	.00	.46	.11	10

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 68.3 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
36 10.6 N	122 34.5 W	02/12/84	1935 GMT	3160 M	010	08 KT	290 03 10	2	1024.0 MB	15.1 C	14.4 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.50	13.50	33.278	24.960	298.8	.030	6.20	104.6	2.4	.34	.1	.01			10

STATION 71.7 51.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 53.2 N	121 31.2 W	02/14/84	0428 GMT	298 M	330	24 KT	280 04 08		1019.6 MB	13.6 C	11.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.41	13.41	33.395	25.069	288.5	.029	5.97	100.6	5.5	.52	1.9	.11	1.79	.96	10

STATION 71.7 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 45.4 N	121 48.1 W	02/14/84	0102 GMT	1047 M	320	12 KT	280 03 08	2	1019.0 MB	13.8 C	12.7 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.65	13.65	33.427	25.045	290.8	.029	6.32	107.1	4.0	.49	.6	.05	3.44	.35	10

STATION 71.7 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 35.3 N	122 09.4 W	02/13/84	2215 GMT	2250 M	230	12 KT	220 04	2	1018.6 MB	14.3 C	13.8 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.60	13.60	33.145	24.837	310.6	.031	6.20	104.7	3.0	.43	.1	.00	.48	.07	10

STATION 75.0 48.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 24.0 N	120 56.7 W	02/15/84	0825 GMT	73 M	070	10 KT	290 03 05	0	1022.4 MB	13.2 C	9.5 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.75	13.75	33.473	25.060	289.4	.029	5.91	100.3	3.7	.46	1.0	.08	1.34	.55	10

STATION 75.0 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 21.0 N	121 03.0 W	02/15/84	0633 GMT	216 M	350	10 KT	340 04 05	0	1022.4 MB	13.3 C	11.0 C		CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10			33.481				6.01		3.2	.39	.1	.02	1.26	.61	10

STATION 75.0 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 11.0 N	121 24.2 W	02/15/84	0241 GMT	704 M	350	11 KT	330 06 08	0	1022.0 MB	12.0 C	9.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.76	13.76	33.386	24.991	296.0	.030	6.12	103.9	1.9	.35	.0	.00	1.42	.23	10

STATION 75.0 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 01.0 N	121 45.3 W	02/14/84	2306 GMT	2000 M	340	18 KT	290 07 08	0	1023.0 MB	14.0 C	10.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.36	13.36	33.148	24.887	305.8	.031	6.19	104.0	3.9	.42	.0	.01	1.10	.19	10

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
35 07.3 N	120 42.4 W	02/15/84	1052 GMT	31 M	260	03 KT		0	1021.7 MB	13.0 C	9.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.52	13.52	33.491	25.121	283.6	.028	5.77	97.5	4.8	.59	2.2	.13	1.33	.53	10

STATION 78.3 51.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 44.7 N	120 43.6	02/16/84	1127 GMT	68 M	300	13 KT	290 02 06		1021.7 MB	15.0 C	13.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.72	13.72	33.491	25.080	287.5	.029	5.87	99.6	3.3	.45	.1	.08	1.68	.85	10

STATION 78.3 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 36.7 N	121 00.4 W	02/16/84	0821 GMT	631 M	320	09 KT	270 01 05		1021.7 MB	14.8 C	13.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.05	14.05	33.501	25.020	293.2	.029	6.14	104.9	.8	.38	.0	.00	1.88	.61	10

STATION 78.3 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 26.7 N	121 21.2 W	02/16/84	0237 GMT	2040 M	300	11 KT	270 02 05		1021.7 MB	14.7 C	14.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.28	14.28	33.490	24.963	298.6	.030	6.00	103.0	4.6	.41	.0	.04	2.15	.51	10

STATION 80.8 47.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 27.1 N	120 08.5 W	02/18/84	2330 GMT	49 M	110	08 KT	240 02 10	1	1019.0 MB	17.2 C	12.5 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.77	12.77	33.514	25.288	267.6	.027	5.11	85.0	6.2	.84	7.5	.10	.64	.23	10

STATION 80.8 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 20.7 N	120 21.6 W	02/19/84	0120 GMT	277 M	310	22 KT	290 04 06	1	1020.0 MB	13.5 C	11.1 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.89	12.89	33.525	25.273	269.1	.027	5.34	89.1	7.1	.90	7.5	.12	1.32	.15	10

STATION 80.8 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 10.6 N	120 42.4 W	02/19/84	0426 GMT	713 M	340	22 KT	300 06 06		1021.7 MB	13.2 C	11.5 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.91	13.91	33.504	25.051	290.3	.029	5.71	97.3	3.6	.58	2.8	.09	1.23	.45	10

STATION 80.8 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 00.6 N	121 03.1 W	02/19/84	0753 GMT	1070 M	350	21 KT	330 10 07		1022.0 MB	13.6 C	12.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.62	13.62	33.507	25.113	284.3	.028	5.75	97.4	3.9	.62	3.3	.09	1.99	.53	10

STATION 81.7 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 21.5 N	119 54.5 W	02/18/84	2103 GMT	305 M	210	05 KT	280 02 10	1	1020.3 MB	17.2 C	12.1 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.50	14.50	33.493	24.919	302.8	.030	5.83	100.5	1.9	.41	.8	.03	1.13	.43	10

STATION 81.7 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 11.2 N	120 15.1 W	02/18/84	1803 GMT	481 M	340	20 KT	340 03 10	1	1022.0 MB	14.4 C	9.8 C	1/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.08	14.08	33.514	25.023	292.9	.029	5.86	100.2	2.7	.44	1.2	.02	1.64	.65	10

STATION 81.7 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 01.3 N	120 36.0 W	02/18/84	1442 GMT	740 M	340	24 KT	320 05 14	1	1021.0 MB	13.1 C	9.7 C	2/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.90	13.90	33.511	25.058	289.5	.029	5.67	96.6	3.5	.51	2.4	.04	1.23	.45	10

STATION 81.7 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 51.3 N	120 56.8 W	02/18/84	1130 GMT	2690 M	350	19 KT		1	1022.7 MB	12.8 C	10.0 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.61	13.61	33.508	25.115	284.1	.028	5.78	97.9	4.0	.56	2.9	.08	1.88	.44	10

STATION 82.5 40.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 22.0 N	119 29.9 W	02/20/84	0136 GMT	20 M	290	09 KT	230 02 11	1	1022.0 MB	16.1 C	11.2 C	1/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.26	13.26	33.475	25.161	279.8	.028	5.27	88.6	5.1	.84	6.2	.14	.91	.41	10

STATION 82.5 44.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 15.0 N	119 44.5 W	02/19/84	2332 GMT	185 M	290	09 KT	270 02 07	1	1022.0 MB	17.1 C	13.0 C	1/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.78	14.78	33.496	24.861	308.3	.031	6.02	104.4	1.7	.38	.3	.02	1.53	.30	10

STATION 82.5 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 03.0 N	120 09.4 W	02/19/84	1730 GMT	37 M	130	04 KT	300 02 10	1	1022.0 MB	15.3 C	12.7 C	1/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.79	13.79	33.526	25.092	286.3	.029	5.85	99.4	3.5	.50	2.0	.03	2.30	.22	10

STATION 82.5 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 53.0 N	120 30.3 W	02/19/84	1422 GMT	1410 M	340	18 KT	300 05 08	0	1020.0 MB	13.6 C	10.0 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.13	13.13	33.538	25.236	272.7	.027	5.46	91.6	5.8	.70	5.6	.06	1.16	.38	10

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 43.0 N	120 51.0 W	02/19/84	1057 GMT	1156 M	340	22 KT	330 04 05		1021.3 MB	13.7 C	11.6 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.02	14.02	33.347	24.907	303.9	.030	5.99	102.2	.4	.38	.2	.00	.46	.20	10

STATION 84.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 06.4 N	119 16.6 W	02/22/84	1457 GMT	55 M	030	13 KT	290 03 09	1	1014.2 MB	12.9 C	9.0 C	1/8 SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.59	14.59	33.501	24.906	304.1	.030	5.93	102.4	2.6	.39	.1	.02	1.61	.42	10

STATION 84.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 56.4 N	119 37.3 W	02/22/84	1217 GMT	481 M	040	08 KT		1	1013.5 MB	13.9 C	11.1 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.96	14.96	33.479	24.809	313.2	.031	5.88	102.3	2.2	.36	.0	.00	.86	.31	10

STATION 84.1 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 46.4 N	119 58.1 W	02/22/84	0923 GMT	203 M	330	23 KT	250 07 10	1	1014.2 MB	13.0 C	11.2 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.72	14.72	33.503	24.879	306.6	.031	5.98	103.6	2.1	.33	.1	.00	1.62	.40	10

STATION 85.0 38.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
34 00.9 N	119 02.0 W	02/22/84	1642 GMT	126 M	070	16 KT	260 02 06	1	1014.6 MB	15.0 C	9.1 C	1/8 SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.75	13.75	33.497	25.078	287.6	.029	5.67	96.3	5.0	.64	2.3	.11	2.21	.37	10

STATION 85.0 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 47.0 N	119 31.1 W	02/22/84	2203 GMT	1850 M	320	13 KT	290 03 07	0	1014.6 MB	15.8 C	12.4 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.15	15.15	33.471	24.762	317.8	.032	5.97	104.3	1.4	.36	.0	.01	.85	.11	10

STATION 85.0 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 37.0 N	119 51.8 W	02/23/84	1136 GMT	277 M	320	08 KT	290 04 10	0	1015.9 MB	14.1 C	11.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.75	14.75	33.492	24.865	308.0	.031	5.92	102.6	.8	.34	.1	.01	2.02	.16	10

STATION 85.0 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 27.1 N	120 12.5 W	02/23/84	1521 GMT	1200 M	340	12 KT	300 06 11	0	1018.3 MB	14.2 C	12.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.94	13.94	33.505	25.046	290.7	.029	5.80	98.9	2.5	.47	1.7	.02	2.99	.18	10

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 85.0 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 17.0 N	120 33.1 W	02/23/84	1912 GMT	1200 M	350	14 KT	290 06 10	0	1020.0 MB	15.0 C	12.5 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.26	13.86	33.493	25.053	290.1	.029	5.96	101.4	3.3	.49	1.3	.05	2.65	.47	10

STATION 85.0 65.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 07.0 N	120 53.7 W	02/23/84	2329 GMT	2040 M	330	16 KT	320 06 10	0	1019.3 MB	15.0 C	11.6 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.00	14.00	33.370	24.929	301.9	.030	6.00	102.3	1.6	.38	.2	.01	.89	.19	10

STATION 85.0 70.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 57.0 N	121 14.3 W	02/24/84	0347 GMT	3730 M	340	22 KT	340 06 10	0	1020.3 MB	13.1 C	11.7 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.10	14.10	33.305	24.858	308.6	.031	6.00	102.5	1.6	.37	.0	.01	.38	.09	10

STATION 85.8 34.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
34 00.7 N	118 39.8 W	02/27/84	0028 GMT	40 M	260	14 KT	290 02 07	1	1019.6 MB	16.6 C	12.3 C	5/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.39	14.39	33.481	24.933	301.5	.030	6.02	103.6	1.4	.42	.3	.06	3.66	.23	10

STATION 85.8 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 48.7 N	119 04.7 W	02/26/84	0005 GMT	861 M	260	07 KT	260 03 06	0	1016.6 MB	16.9 C	13.0 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.25	15.25	33.474	24.742	319.6	.032	5.84	102.2	2.0	.38	.1	.02	.63	.20	10

STATION 85.8 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 38.7 N	119 25.4 W	02/25/84	2057 GMT	1700 M	320	13 KT	290 05 08	1	1018.6 MB	15.2 C	13.3 C	6/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.00	14.00	33.517	25.042	291.1	.029	6.25	106.7	0.0	.39	.2	.01	1.49	.34	10

STATION 85.8 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 28.6 N	119 46.2 W	02/25/84	1720 GMT	115 M	330	26 KT	300 08 06	1	1019.3 MB	12.9 C	9.6 C	5/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.02	14.02	33.515	25.036	291.6	.029	5.90	100.8	.9	.39	.9	.03	2.46	.22	10

STATION 86.7 33.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 53.4 N	118 29.4 W	02/27/84	0822 GMT	64 M	020	07 KT	290 01 05	1	1020.7 MB	15.2 C	12.5 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.80	14.80	33.481	24.845	309.8	.031	5.96	103.4	3.0	.44	.4	.04	1.69	.71	10

STATION 87.5 33.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 44.1 N	118 25.9 W	02/26/84	2020 GMT	240 M	340	06 KT	260 02 07	1	1021.0 MB	17.9 C	11.3 C	8/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.03	15.03	33.464	24.782	315.8	.032	5.94	103.5	1.4	.42	.0	.03	1.36	.30	10

STATION 87.5 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 31.1 N	118 52.9 W	02/26/84	1636 GMT	1029 M	060	09 KT	260 02 07	1	1020.0 MB	17.0 C	14.9 C	5/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.40	15.40	33.443	24.686	325.0	.033	5.86	102.9	1.5	.31	.0	.03	.17	.05	10

STATION 87.5 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 21.2 N	119 13.6 W	02/26/84	1346 GMT	1090 M	030	08 KT	290 02 06	1	1019.3 MB	15.5 C	14.3 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.14	15.14	33.481	24.772	316.8	.032	5.90	103.1	1.9	.37	.1	.03	.42	.16	10

STATION 87.5 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 11.1 N	119 34.2 W	02/26/84	1017 GMT	441 M	350	12 KT		1	1019.6 MB	14.0 C	13.0 C	5/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.62	13.62	33.513	25.117	283.9	.028	5.99	101.5	.9	.55	.8	.04	5.37	.55	10

STATION 88.3 33.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 36.7 N	118 18.4 W	02/27/84	1610 GMT	500 M	040	07 KT	270 01 06	1	1021.0 MB	17.8 C	11.2 C	6/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.14	15.14	33.473	24.765	317.4	.032	5.88	102.7	3.0	.37	.2	.00	.61	.14	10

STATION 88.3 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 32.7 N	118 26.6 W	02/27/84	1503 GMT	658 M	070	08 KT	280 01 09	1	1021.3 MB	16.5 C	10.5 C	6/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.49	15.49	33.468	24.685	325.1	.033	5.86	103.1	3.0	.34	.3	.00	.14	.07	10

STATION 88.3 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 22.7 N	118 47.3 W	02/28/84	0929 GMT	1290 M	290	09 KT			1018.3 MB	15.7 C	12.9 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.85	15.85	33.480	24.614	331.9	.033	5.84	103.5	2.8	.36	.2	.02	.13	.03	10

STATION 88.3 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 12.7 N	119 08.0 W	02/28/84	1205 GMT	1200 M	300	10 KT			1017.6 MB	15.3 C	12.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.05	15.05	33.444	24.763	317.7	.032	5.89	102.7	2.9	.35	.2	.00	.27	.05	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 02.7 N	119 28.6 W	02/28/84	1443 GMT	740 M	310	10 KT	290 03 14	1	1017.6 MB	13.8 C	12.5 C	3/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.44	14.44	33.466	24.911	303.6	.030	5.98	103.0	4.0	.41	.4	.02	1.05	.23	10

STATION 88.3 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 52.7 N	119 49.1 W	02/28/84	1747 GMT	1110 M	310	12 KT	300 03 14	1	1018.3 MB	15.1 C	13.6 C	3/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.78	13.78	33.511	25.083	287.2	.029	6.57	111.6	.4	.36	.2	.00	4.01	.18	10

STATION 88.3 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 42.7 N	120 09.6 W	03/01/84	2046 GMT	720 M	310	11 KT		1	1018.0 MB	15.5 C	13.8 C	4/8	CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.96	13.96	33.500	25.037	291.5	.029	6.46	110.2	.3	.36	.1	.02	2.62	.31	10

STATION 89.1 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 34.4 N	118 00.4 W	03/01/84	1640 GMT	55 M	100	06 KT	330 02 07	1	1020.3 MB	15.0 C	12.9 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.65	14.65	33.470	24.869	307.6	.031	6.21	107.4	1.6	.35	.0	.02	1.33	.42	10

STATION 89.1 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 24.4 N	118 21.1 W	03/01/84	1915 GMT	91 M	080	08 KT		1	1019.6 MB	17.1 C	13.9 C	6/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.78	15.78	33.481	24.630	330.3	.033	5.81	102.8	2.9	.32	.0	.00	.13	.05	10

STATION 89.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 14.4 N	118 41.8 W	03/01/84	2316 GMT	1180 M	320	07 KT	230 03 09	1	1017.6 MB	16.1 C	15.1 C	3/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.46	15.46	33.435	24.666	326.9	.033	5.87	103.2	2.7	.31	.0	.00	.14	.02	10

STATION 89.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 04.4 N	119 02.5 W	03/02/84	0337 GMT		330	10 KT	280 02 10		1017.6 MB	15.8 C	14.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.03	15.03	33.438	24.762	317.7	.032	5.96	103.8	2.8	.34	.0	.01	.28	.06	10

STATION 89.1 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 54.4 N	119 22.8 W	03/02/84	0800 GMT	203 M	310	15 KT			1017.6 MB	14.4 C	13.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.91	14.91	33.445	24.796	314.7	.031	5.99	104.1	2.6	.34	.0	.01	.35	.07	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 05.1 N	118 35.6 W	03/03/84	1520 GMT	780 M	090	06 KT	280 04 07	2	1015.9 MB	14.9 C	13.0 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.29	15.29	33.441	24.708	322.9	.032	5.89	103.2	3.3	.32	.2	.01	.16	.07	10

STATION 90.0 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 45.0 N	119 16.5 W	03/04/84	1759 GMT	304 M	180	05 KT	280 04 09	1	1015.9 MB	15.0 C	13.6 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.03	15.03	33.438	24.762	317.7	.032	5.96	103.8	2.7	.35	.0	.01	.36	.03	10

STATION 90.8 27.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 21.8 N	117 38.6 W	03/03/84	0133 GMT	73 M	290	07 KT	260 01 06	0	1015.2 MB	17.4 C	14.4 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.84	15.84	33.466	24.605	332.7	.033	5.92	104.8	3.3	.31	.1	.00	.17	.04	10

STATION 90.8 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 16.8 N	117 48.9 W	03/03/84	0006 GMT	639 M	270	07 KT	260 01 06	0	1015.2 MB	17.8 C	14.7 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.85	15.85	33.465	24.602	333.0	.033	5.89	104.3					.43	.07	10

STATION 90.8 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 06.8 N	118 09.5 W	03/02/84	2130 GMT	1039 M	260	04 KT	280 01 04	0	1016.3 MB	17.0 C	14.3 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.55	15.55	33.441	24.651	328.3	.033	5.85	103.0	2.5	.31	.0	.01	.09	.05	10

STATION 90.8 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 56.8 N	118 30.0 W	03/02/84	1836 GMT	69 M	060	02 KT		0	1018.0 MB	15.8 C	13.2 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.11	15.11	33.441	24.747	319.1	.032	5.90	103.0	2.7	.42	.0	.00	.39	.09	10

STATION 90.8 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 46.9 N	118 50.6 W	03/02/84	1403 GMT	1340 M	310	04 KT	270 02 05	2	1017.3 MB	14.3 C	12.9 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.98	14.98	33.462	24.792	314.9	.031	5.94	103.4	2.6	.34	.0	.00	.35	.08	10

STATION 90.8 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 36.8 N	119 11.1 W	03/02/84	1108 GMT	205 M	320	14 KT			1016.6 MB	14.3 C	13.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.00	15.00	33.440	24.771	316.9	.032	5.87	102.2	2.7	.33	.0	.00	.26	.07	10

STATION 91.7 27.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 13.4 N	117 30.4 W	03/06/84	0822 GMT	176 M	090	06 KT	310 01 07		1019.6 MB	13.8 C	10.7 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.66	15.66	33.475	24.653	328.2	.033	5.99	105.7	1.8	.13	.0	.00	.19	.03	10

STATION 91.7 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
33 07.3 N	117 42.8 W	03/06/84	0601 GMT	795 M	330	12 KT	310 02 08		1019.0 MB	16.0 C	13.1 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.92	15.92	33.454	24.578	335.3	.034	5.81	103.1	2.8	.13	.0	.01	.16	.02	10

STATION 91.7 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 57.4 N	118 03.5 W	03/06/84	0124 GMT	916 M	330	09 KT	310 01 06	0	1018.3 MB	16.1 C	11.7 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.40	15.40	33.442	24.685	325.1	.033	5.91	103.7	2.8	.11	.0	.00	.13	.05	10

STATION 91.7 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 47.4 N	118 23.8 W	03/05/84	2245 GMT	73 M	060	03 KT	090 02 07	0	1019.0 MB	19.8 C	11.9 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.25	15.25	33.449	24.723	321.5	.032	5.94	104.0	2.7	.09	.0	.01	.17	.04	10

STATION 91.7 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 37.4 N	118 44.3 W	03/05/84	2005 GMT	971 M	090	10 KT	090 04 05	0	1020.7 MB	19.6 C	13.6 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.00	15.00	33.428	24.761	317.8	.032	5.90	102.7	3.0	.38	.0	.02	.18	.05	10

STATION 91.7 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 27.4 N	119 04.8 W	03/05/84	1718 GMT	96 M	100	12 KT	070 04 05	0	1020.0 MB	16.5 C	13.9 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.95	14.95	33.470	24.805	313.7	.031	5.92	103.0	3.4	.35	.0	.00	.41	.08	10

STATION 91.7 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 17.5 N	119 25.1 W	03/05/84	1410 GMT	1480 M	100	11 KT	080 04 05	0	1018.6 MB	14.6 C	12.9 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.77	14.77	33.424	24.808	315.4	.031	5.96	103.3	3.2	.37	.0	.00	.26	.08	10

STATION 91.7 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
32 07.4 N	119 45.6 W	03/05/84	1136 GMT	1290 M	090	12 KT			1016.9 MB	14.1 C	12.6 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.73	14.73	33.427	24.819	312.3	.031	5.88	101.8	3.2	.39	.1	.00	.30	.07	10

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
33 06.1 N	117 22.9 W	03/06/84	1008 GMT	287 M	030	06 KT			1019.0 MB	13.0 C	8.0 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.75	15.75	33.476	24.633	330.0	.033	5.94	105.0	2.6	.13	.0	.00	.31	.07	10

STATION 92.5 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 59.1 N	117 37.3 W	03/06/84	1206 GMT	890 M	070	06 KT			1018.0 MB	15.0 C	10.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.66	15.66	33.452	24.635	329.9	.033	5.85	103.2	2.6	.12	.0	.00	.15	.04	10

STATION 92.5 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 49.0 N	117 57.8 W	03/06/84	1435 GMT	610 M	020	05 KT	360 02 05	0	1019.3 MB	15.1 C	11.5 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.78	15.78	33.462	24.616	331.7	.033	5.88	104.0	2.7	.13	.0	.00	.18	.05	10

STATION 92.5 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 39.1 N	118 18.2 W	03/06/84	1707 GMT	1290 M	270	06 KT	270 01 05	1	1019.3 MB	16.1 C	12.7 C	3/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.53	15.53	33.433	24.649	328.5	.033	5.82	102.4	2.6	.12	.0	.00	.14	.04	10

STATION 92.5 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 29.1 N	118 38.8 W	03/06/84	2031 GMT	760 M	300	05 KT	340 03 07	1	1019.3 MB	16.1 C	12.7 C	3/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.67	15.67	33.469	24.646	328.8	.033	5.81	102.6	3.2	.34	.1	.02	.18	.05	10

STATION 92.5 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 19.1 N	118 59.2 W	03/06/84	2318 GMT	740 M	300	08 KT	300 01 10	1	1019.0 MB	16.8 C	14.7 C	4/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.38	15.38	33.420	24.672	326.3	.033	5.94	104.2	2.8	.32	.1	.00	.15	.04	10

STATION 93.3 26.7

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 57.4 N	117 18.2 W	03/07/84	1737 GMT	59 M	270	03 KT	290 01 13	1	1020.3 MB	15.1 C	11.1 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.97	14.97	33.472	24.802	314.0	.031	6.06	105.5	1.9	.35	.1	.01	.38	.06	10

STATION 93.3 28.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 54.8 N	117 23.7 W	03/08/84	0956 GMT	610 M	320	04 KT			1021.3 MB	14.1 C	13.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.71	15.71	33.472	24.639	329.5	.033	5.96	105.3	6.0	.34	.3	.00	.23	.05	10

STATION 94.1 28.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 46.4 N	117 18.1 W	03/07/84	1616 GMT	55 M	110	06 KT	300 01 14	2	1020.0 MB	13.9 C	10.9 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.03	15.03	33.469	24.786	315.5	.032	6.34	110.5	1.9	.34	.0	.01	.42	.02	10

STATION 94.1 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 42.6 N	117 26.5 W	03/07/84	1517 GMT	547 M	010	07 KT	340 01 07	1	1019.3 MB	15.5 C	11.9 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.19	15.19	33.460	24.745	319.4	.032	6.17	107.9	2.2	.32	.1	.00	.38	.06	10

STATION 94.1 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 32.2 N	117 46.8 W	03/07/84	1234 GMT	1210 M	350	07 KT			1018.6 MB	16.0 C	14.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.84	15.84	33.462	24.602	333.0	.033	5.92	104.8	2.9	.30	.1	.00	.15	.03	10

STATION 94.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 22.5 N	118 07.3 W	03/07/84	0953 GMT	1760 M	350	07 KT			1018.6 MB	16.1 C	13.2 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.73	15.73	33.442	24.611	332.1	.033	5.87	103.7	2.9	.34	.0	.00	.13	.03	10

STATION 94.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 12.6 N	118 27.7 W	03/07/84	0555 GMT	1480 M	320	12 KT	320 01 10		1018.6 MB	15.3 C	13.1 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.79	15.79	33.456	24.609	332.4	.033	5.86	103.7	2.9	.33	.1	.00	.16	.04	10

STATION 94.1 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 02.5 N	118 48.1 W	03/07/84	0128 GMT	1290 M	320	10 KT	320 01 10	1	1018.6 MB	15.9 C	12.5 C	4/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.41	15.41	33.429	24.672	326.3	.033	5.89	103.4	3.0	.33	.1	.00	.13	.02	10

STATION 95.0 28.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 37.2 N	117 12.2 W	03/11/84	0638 GMT	24 M	090	10 KT	250 02 12		1017.3 MB	15.1 C	13.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.35	14.35	33.474	24.936	301.2	.030	5.84	100.4							10

STATION 95.0 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 33.2 N	117 20.3 W	03/11/84	0047 GMT	101 M	280	11 KT	260 03 08	1	1017.3 MB	17.8 C	16.7 C	2/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.46	15.46	33.482	24.702	323.5	.032	6.06	106.5					.25	.04	10

STATION 95.0 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 23.1 N	117 40.8 W	03/10/84	2209 GMT	1460 M	330	06 KT	290 03 06	1	1018.3 MB	18.2 C	16.1 C	2/8	CS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.98	15.98	33.463	24.571	335.9	.034	5.89	104.6	4.1	.32	.2	.01	.13	.02	10

STATION 95.0 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 13.1 N	118 01.3 W	03/10/84	1908 GMT	602 M	330	11 KT	310 05 09	1	1021.0 MB	16.5 C	15.5 C	7/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.80	15.80	33.439	24.594	333.8	.033	5.82	103.0	3.5	.31	.1	.00	.13	.01	10

STATION 95.0 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 03.1 N	118 21.6 W	03/10/84	1630 GMT	790 M	310	12 KT	310 06 08	2	1020.7 MB	16.0 C	14.5 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.79	15.79	33.456	24.609	332.4	.033	5.83	103.1	3.7	.32	.1	.00	.14	.02	10

STATION 95.0 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 53.2 N	118 41.8 W	03/10/84	1350 GMT	1410 M	320	20 KT	310 06 06	2	1020.0 MB	15.1 C	14.0 C	8/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.51	15.51	33.417	24.641	329.3	.033	5.86	103.1	3.9	.37	.2	.00	.11	.02	10

STATION 95.0 55.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 43.1 N	119 02.1 W	03/10/84	1059 GMT	1850 M	030	18 KT			1020.7 MB	14.8 C	13.7 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.28	15.28	33.474	24.736	320.3	.032	5.88	103.0	3.9	.35	.1	.00	.14	.02	10

STATION 95.0 60.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 33.0 N	119 22.4 W	03/10/84	0745 GMT	3350 M	330	18 KT	330 05 06		1022.7 MB	14.9 C	13.8 C		

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.39	15.39	33.464	24.704	323.3	.032	5.85	102.7					.12	.02	10

STATION 95.8 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 58.7 N	118 07.9 W	03/28/84	1930 GMT	1510 M	060	08 KT	290 04 05	0	1017.3 MB	18.4 C	16.0 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.07	16.07	33.457	24.545	338.4	.034	5.84	103.9	2.4	.31		.01	.15	.10	10

STATION 95.8 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 44.8 N	118 36.3 W	03/28/84	1510 GMT	1860 M	030	10 KT	280 05 05	1	1015.9 MB	17.8 C	15.7 C	1/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.89	15.89	33.451	24.582	334.9	.033	5.80	102.8	2.1	.33	.0	.01	.14	.09	10

STATION 96.7 29.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 17.4 N	117 04.8 W	03/13/84	2203 GMT	50 M	320	10 KT	280 03 04	2	1017.6 MB	19.2 C	15.7 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.45	14.45	33.512	24.943	300.5	.030	6.15	106.0	3.1	.42	.1	.00	.65	.41	10

STATION 96.7 32.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 11.4 N	117 17.0 W	03/14/84	0136 GMT	1390 M	310	10 KT	280 02 04	2	1017.3 MB	16.5 C	14.4 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.09	16.09	33.485	24.563	336.7	.034	5.92	105.4	3.3	.31	.0	.00	.14	.02	10

STATION 97.5 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
32 07.1 N	117 03.4 W	03/27/84	2301 GMT	106 M	300	09 KT	270 06 06	0	1013.2 MB	19.3 C	16.7 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.36	16.36	33.490	24.505	342.2	.034	5.91	105.8	2.2	.37	.0	.00	.21	.09	10

STATION 97.5 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 57.1 N	117 23.8 W	03/28/84	0148 GMT	1410 M	340	11 KT	280 06 06	1	1013.2 MB	17.4 C	15.9 C	1/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.80	16.80	33.477	24.393	352.9	.035	5.85	105.6	2.0	.29	.0	.00	.13	.02	10

STATION 97.5 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 47.1 N	117 44.0 W	03/28/84	0602 GMT	1853 M	360	13 KT	350 06 06	0	1014.6 MB	17.1 C	14.8 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.51	16.51	33.481	24.463	346.2	.035	5.80	104.1	1.2	.31	.0	.00	.15	.03	10

STATION 97.5 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 37.1 N	118 04.3 W	03/28/84	0955 GMT	1664 M	360	09 KT		0	1014.9 MB	16.4 C	14.7 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.03	16.03	33.454	24.553	337.7	.034	5.79	102.9	1.6	.32	.0	.01	.15	.02	10

STATION 97.5 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 27.1 N	118 24.6 W	03/28/84	1251 GMT	2570 M	340	10 KT		0	1014.9 MB	16.2 C	14.6 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.07	16.07	33.457	24.546	338.3	.034	5.83	103.7	1.6	.31	.1	.01	.10	.26	10

STATION 98.3 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 58.8 N	116 58.1 W	03/27/84	1010 GMT	621 M	310	05 KT	300 06 06	2	1009.8 MB	15.6 C	14.1 C	8/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.41	16.41	33.494	24.497	343.0	.034	5.90	105.7	2.4	.34	.0	.00	.29	.07	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 48.8 N	117 18.4 W	03/27/84	0710 GMT	1454 M	310	14 KT	300 08 06	2	1010.8 MB	15.3 C	13.9 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.62	16.61	33.505	24.458	346.7	.035	5.79	104.2	2.8	.31	.0	.00	.15	.07	10

STATION 98.3 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 38.7 N	117 58.5 W	03/27/84	0421 GMT	1520 M	310	20 KT	310 08 06	2	1011.2 MB	15.9 C	14.6 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.65	16.65	33.496	24.443	348.1	.035	5.79	104.2	2.0	.32	.0	.00	.16	.04	10

STATION 98.3 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 28.8 N	117 58.8 W	03/27/84	0125 GMT	1300 M	320	17 KT	300 06 06	2	1011.5 MB	16.3 C	14.8 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.43	16.43	33.477	24.479	344.7	.034	5.82	104.3	2.2	.31	.0	.00	.18	.02	10

STATION 98.3 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 18.8 N	118 19.0 W	03/26/84	2228 GMT	1860 M	320	15 KT	300 04 06	2	1012.2 MB	16.0 C	15.0 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.16	16.16	33.471	24.536	339.3	.034	5.80	103.4	2.2	.59	.0	.00	.19	.04	10

STATION 99.1 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 50.5 N	116 52.7 W	03/26/84	0917 GMT	550 M	160	08 KT	300 03 05	2	1012.9 MB	16.0 C	13.4 C	8/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.55	16.55	33.494	24.465	346.1	.035	5.85	105.1	3.2	.36	.1	.00	.16	.06	10

STATION 99.1 34.9

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 40.5 N	117 12.5 W	03/26/84	1220 GMT	2159 M	270	10 KT	300 03 05	2	1012.5 MB	16.3 C	13.5 C	8/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.29	16.29	33.485	24.517	341.1	.034	5.89	105.3	2.5	.34	.0	.00	.13	.02	10

STATION 99.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 30.5 N	117 33.2 W	03/26/84	1519 GMT	1695 M	270	08 KT	290 05 05	2	1012.9 MB	16.7 C	13.5 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.28	16.28	33.493	24.526	340.3	.034	5.76	102.9	2.6	.32	.0	.00	.15	.03	10

STATION 99.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 20.4 N	117 53.4 W	03/26/84	1801 GMT	1891 M	270	08 KT	290 06 06	2	1013.9 MB	16.9 C	14.3 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.18	16.18	33.467	24.528	340.0	.034	5.76	102.7	2.6	.31	.1	.00	.16	.06	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 10.5 N	118 13.5 W	03/26/84	2117 GMT	1411 M	320	13 KT	320 06 06	1	1012.5 MB	17.3 C	16.2 C	6/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.16	16.16	33.449	24.519	340.9	.034	5.80	103.4	2.4	.40	.0	.00	.17	.00	10

STATION 100.8 30.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 31.8 N	116 43.3 W	03/26/84	0202 GMT	58 M	360	02 KT	300 02 05	2	1012.9 MB	16.1 C	13.3 C	8/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.66	14.66	33.488	24.881	306.5	.031	5.92	102.4	5.7	.56	1.3	.06	1.15	.05	10

STATION 100.8 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 22.8 N	117 01.4 W	03/25/84	2321 GMT	2321 M	310	08 KT	300 04 05	1	1012.9 MB	17.3 C	15.0 C	7/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.38	16.38	33.490	24.500	342.7	.034	5.82	104.2	3.1	.55	.2	.00	.15	.02	10

STATION 100.8 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 12.8 N	117 21.6 W	03/25/84	2053 GMT	2140 M	310	10 KT	300 05 06	1	1014.6 MB	16.9 C	13.8 C	7/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.53	16.53	33.480	24.459	346.6	.035	5.75	103.2	2.1	.31	.1	.00	.16	.02	10

STATION 100.8 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 02.7 N	117 41.9 W	03/25/84	1753 GMT	1265 M	310	11 KT	300 04 06	2	1014.9 MB	16.8 C	12.8 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.05	16.05	33.425	24.527	340.2	.034	5.78	102.8	2.0	.34	.1	.01	.11	.00	10

STATION 101.7 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 23.5 N	116 35.2 W	03/25/84	0704 GMT	27 M	320	12 KT	310 02 05	0	1014.6 MB	15.9 C	13.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.89	13.89	33.547	25.087	286.7	.029	5.90	100.5	6.7	.66	3.6	.13	2.40	.36	10

STATION 101.7 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 13.5 N	116 55.4 W	03/25/84	1049 GMT	1328 M	320	10 KT	310 04 06	2	1013.2 MB	15.8 C	13.4 C	8/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.42	16.42	33.489	24.491	343.6	.034	5.75	103.0	2.0	.31	.1	.00	.13	.02	10

STATION 101.7 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 03.5 N	117 15.5 W	03/25/84	1330 GMT	2120 M	320	12 KT	310 04 06	2	1013.5 MB	14.8 C	12.2 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.35	16.35	33.475	24.497	343.0	.034	5.78	103.4	2.1	.31	.1	.00	.16	.01	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 53.5 N	117 35.8 W	03/25/84	1623 GMT	1775 M	320	10 KT	300 04 05	2	1014.9 MB	15.1 C	12.4 C	8/8	SC

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.12	16.12	33.412	24.500	342.7	.034	5.77	102.7	2.0	.33	.1	.01	.08	.02	10

STATION 102.5 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 15.2 N	116 29.9 W	03/25/84	0217 GMT	58 M	310	14 KT	310 02 05	0	1013.9 MB			0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.20	15.20	33.511	24.781	316.0	.032	6.30	110.2	4.8	.42	.3	.02	2.78	.38	10

STATION 102.5 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 05.2 N	116 50.0 W	03/24/84	2326 GMT	1553 M	310	15 KT	310 04 03	1	1012.5 MB	18.7 C	16.5 C	6/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.38	16.37	33.476	24.491	343.5	.034	5.83	104.4	2.2	.34	.1	.00			10

STATION 102.5 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 55.2 N	117 10.1 W	03/24/84	2012 GMT	2060 M	310	13 KT	300 04 06	1	1016.3 MB	18.2 C	17.5 C	5/8	SI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.44	16.44	33.482	24.481	344.5	.034	5.73	102.7	2.4	.32	.1	.00	.13	.01	10

STATION 102.5 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 45.3 N	117 30.1 W	03/24/84	1711 GMT	1950 M	300	08 KT	280 04 06	1	1016.6 MB	18.2 C	16.4 C	2/8	CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.22	16.22	33.469	24.520	340.8	.034	5.77	103.0	1.9	.32	.1	.00	.11	.03	10

STATION 103.3 29.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
31 08.9 N	116 20.5 W	03/17/84	1135 GMT	26 M	120	04 KT	270 05 08	1	1019.3 MB	11.8 C	10.8 C	2/8	AS

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	12.67	12.67	33.542	25.328	263.8	.026	4.82	80.1	4.5	1.00	9.1	.20	.65	.39	10

STATION 104.1 30.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 57.5 N	116 21.2 W	03/24/84	0559 GMT	38 M	200	03 KT	280 01 06	0	1016.3 MB	16.5 C	15.0 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.90	14.89	33.506	24.844	309.9	.031	6.12	106.4	4.6	.62	.3	.02	1.09	.27	10

STATION 104.1 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 48.5 N	116 39.5 W	03/24/84	1004 GMT	2023 M	340	07 KT	320 03 06	0	1015.9 MB	16.4 C	15.2 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.26	16.26	33.484	24.523	340.5	.034	5.81	103.8	2.4	.33	.2	.00	.12	.01	10

STATION 104.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 38.4 N	116 59.3 W	03/24/84	1242 GMT	1608 M	310	08 KT	300 03 06	1	1015.2 MB	16.3 C	15.0 C	1/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.41	16.41	33.491	24.494	343.3	.034	5.75	103.0	2.5	.32	.2	.01	.10	.01	10

STATION 104.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 28.4 N	117 19.4 W	03/24/84	1509 GMT	2330 M	330	10 KT	320 04 06	1	1015.6 MB	17.4 C	15.8 C	2/8 CU

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.76	15.76	33.410	24.580	335.1	.034	5.87	103.8	2.3	.34	.3	.01	.12	.01	10

STATION 105.0 30.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 49.2 N	116 13.2 W	03/23/84	2318 GMT	26 M	310	10 KT	270 06 06	1	1016.3 MB	17.9 C	16.9 C	1/8 CI

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	13.67	13.67	33.550	25.136	282.1	.028	5.84	99.0	8.6	.69	4.6	.15	.67	.33	10

STATION 105.0 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 39.2 N	116 33.2 W	03/23/84	2038 GMT	1237 M	290	08 KT	290 06 06	0	1018.0 MB	17.8 C	16.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.75	14.75	33.475	24.852	309.2	.031	6.11	105.9	3.8	.38	.1	.01	1.09	.39	10

STATION 105.0 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 29.4 N	116 53.3 W	03/23/84	1737 GMT	1580 M	060	03 KT	300 05 06	0	1017.6 MB	17.2 C	15.8 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.30	16.30	33.485	24.516	341.2	.034	5.75	102.8	2.0	.31	.1	.00	.11	.02	10

STATION 105.0 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 19.2 N	117 13.2 W	03/23/84	1457 GMT	2890 M	050	06 KT	300 05 06	1	1016.3 MB	15.4 C	14.1 C	1/8 ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.68	15.68	33.418	24.605	332.7	.033	5.84	103.1	1.8	.33	.1	.00	.12	.01	10

STATION 105.8 30.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 39.9 N	116 09.8 W	03/23/84	0054 GMT	36 M	290	05 KT	300 06 10	0	1013.9 MB	17.9 C	16.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.43	14.43	33.515	24.951	299.8	.030	6.36	109.5	5.8	.47	.4	.04	2.59	.54	10

STATION 105.8 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 30.9 N	116 27.8 W	03/23/84	0710 GMT	1256 M	330	06 KT	320 05 10	0	1014.9 MB	17.0 C	15.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.89	15.89	33.482	24.605	332.7	.033	5.98	106.0	2.8	.45	.1	.01	.35	.06	10

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 20.9 N	116 47.8 W	03/23/84	1053 GMT	2576 M	330	05 KT	300 05 08	1	1015.2 MB	15.2 C	13.9 C	6/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.24	16.23	33.474	24.522	340.6	.034	5.75	102.6	1.8	.33	.1	.01	.11	.02	10

STATION 105.8 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 10.9 N	117 07.8 W	03/23/84	1340 GMT	1510 M	330	06 KT	290 05 06	1	1015.9 MB	15.2 C	13.7 C	1/8	ST

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.26	16.26	33.495	24.532	339.7	.034	5.75	102.7	1.5	.31	.1	.00	.11	.01	10

STATION 106.7 31.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 29.5 N	116 05.8 W	03/22/84	2250 GMT	24 M	300	09 KT	300 06 10	0	1013.9 MB	18.8 C	16.7 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.82	14.82	33.508	24.861	308.3	.031	6.24	108.3	5.0	.40	.3	.02	1.97	.37	10

STATION 107.5 31.5

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 20.2 N	116 02.5 W	03/19/84	1312 GMT	93 M	090	04 KT	280 03 06	0	1013.2 MB	14.1 C	12.8 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.01	14.00	33.512	25.037	291.6	.029	5.60	95.6	7.4	.66	3.8	.14	1.12	.33	10

STATION 107.5 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 13.2 N	116 16.5 W	03/19/84	1053 GMT	1699 M	330	08 KT		0	1014.2 MB	15.8 C	14.2 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.99	15.99	33.481	24.583	334.8	.033	5.79	102.9	2.7	.31	.0	.00	.13	.04	10

STATION 107.5 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
30 03.0 N	116 36.2 W	03/19/84	0803 GMT	3360 M	330	08 KT	320 05 06	0	1016.9 MB	17.0 C	14.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.01	16.01	33.450	24.554	337.6	.034	5.80	103.1	2.5	.30	.0	.00	.11	.02	10

STATION 107.5 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 53.1 N	116 56.2 W	03/19/84	0526 GMT	1670 M	340	08 KT	320 05 06	0	1017.6 MB	16.8 C	15.1 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.15	16.15	33.456	24.528	340.0	.034	5.78	103.0	2.6	.30	.0	.00	.11	.02	10

STATION 107.5 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 43.2 N	117 16.2 W	03/19/84	0233 GMT	2860 M	340	09 KT	320 06 05	0	1016.9 MB	16.8 C	14.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.31	16.31	33.476	24.505	342.2	.034	5.82	104.1	2.7	.28	.1	.01	.10	.02	10

STATION 108.3 32.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 10.8 N	115 59.2 W	03/19/84	1422 GMT	91 M	040	06 KT	290 03 06	0	1014.9 MB	14.0 C	12.2 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.06	14.06	33.502	25.018	293.4	.029	5.71	97.6	6.2	.54	2.3	.11	1.43	.36	10

STATION 108.3 35.1

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 04.9 N	116 11.6 W	03/19/84	1609 GMT	1891 M	040	11 KT	290 04 06	0	1015.2 MB	16.8 C	15.1 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.85	15.85	33.461	24.598	333.3	.033	5.85	103.6	2.9	.34	.0	.00	.13	.02	10

STATION 108.3 39.8

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
29 55.3 N	116 30.5 W	03/19/84	1839 GMT	1839 M	230	04 KT	300 05 08	0	1016.6 MB	18.0 C	15.6 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	15.98	15.98	33.456	24.565	336.5	.034	5.79	102.8	2.5	.30	.0	.00	.17	.04	10

STATION 108.3 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
29 44.9 N	116 50.9 W	03/19/84	2214 GMT	2214 M	300	08 KT	300 06 08	0	1013.9 MB	18.1 C	17.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.25	16.25	33.456	24.505	342.2	.034	5.80	103.6	2.1	.34	.0	.00	.08	.02	10

STATION 108.3 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
29 34.8 N	117 10.6 W	03/20/84	0100 GMT	2373 M	310	14 KT	300 08 06	0	1012.9 MB	17.2 C	15.9 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.46	16.46	33.466	24.464	346.1	.035	5.78	103.6	0.0	.29	.1	.00	.08	.02	10

STATION 109.1 32.2

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
30 02.2 N	115 54.7 W	03/20/84	1636 GMT	77 M	090	02 KT	280 05 06	0	1013.2 MB	14.5 C	13.4 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	14.47	14.47	33.526	24.950	299.8	.030	6.05	104.3	.8	.46	.7	.03			10

STATION 109.1 35.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
29 56.6 N	116 05.8 W	03/20/84	1320 GMT	657 M	010	06 KT	290 04 06	4	1012.2 MB	13.5 C	13.0 C	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.04	16.04	33.450	24.548	338.1	.034	5.80	103.1	0.0	.33	.0	.00			10

STATION 109.1 40.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT TYPE
29 46.6 N	116 25.7 W	03/20/84	1025 GMT	2666 M	330	08 KT	300 06 06	0	1012.5 MB	16.2 C	15.0 C	0/8

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.25	16.25	33.473	24.518	341.0	.034	5.83	104.1	0.0	.32	.0	.00	.13	.02	10

RV DAVID STARR JORDAN CALCOFI CRUISE 8402-3 STATION 109.1 45.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 36.3 N	116 45.6 W	03/20/84	0620 GMT	674 M	100	06 KT	300 05 06	0	1013.9 MB	16.8 C	15.4 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.13	16.13	33.461	24.536	339.3	.034	5.78	103.0	0.0	.33	.0	.00	.09	.01	10

STATION 109.1 50.0

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE
29 26.6 N	117 05.3 W	03/20/84	0216 GMT	2653 M	320	12 KT	300 08 06	0	1012.9 MB	17.3 C	15.9 C	0/8	

CAST	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	CHL-A UG/L	PHAEO UG/L	PRESS D.BAR
1	10	16.36	16.36	33.465	24.486	344.1	.034	5.79	103.6	0.0	.34	.1	.00	.09	.02	10

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 60 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
37°56.8'N	122°52.9'W	02/09/84	1952 GMT	10 m	1218 - 1740 PST	1224 PST	1810 PST	1806.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	209.5	216.9	213.2	0.55					7.55	0.00
8	33	90.1	100.9	95.5	0.37					4.16	0.74
11	21	32.6	32.8	32.7	0.28					1.81	0.80
15	11	20.1	23.7	21.9	0.22					1.44	0.50
27	1.8	5.1	5.6	5.4	0.18					0.76	0.48
41	0.23	1.5	1.3	1.4	0.24					0.61	2.20

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 60 65

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
37°25.5'N	124°00.2'W	02/09/84	2008 GMT	23 m	1241 - 1803 PST	1234 PST	1816 PST	215.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.6	2.5	2.5	0.18					0.15	0.08
18	33	4.1	3.5	3.8	0.12					0.26	0.13
24	21	5.6	5.2	5.4	0.15					0.54	0.36
35	11	4.8	4.3	4.6	0.14					0.31	0.31
63	1.8	0.36	0.36	0.36	0.10					0.10	0.18
96	0.23	0.06	0.05	0.06	0.08					0.04	0.11

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 61 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°03.3'N	126°20.1'W	02/10/84	2013 GMT	26 m	1244 - 1825 PST	1239 PST	1825 PST	144.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.75	0.70	0.72	0.13	1.4	0.41	0.1	0.00	0.11	0.06
20	33	2.4	2.1	2.2	0.12	1.3	0.42	0.1	0.00	0.11	0.07
27	21	1.7	1.8	1.7	0.13	1.2	0.41	0.1	0.00	0.11	0.06
39	11	2.2	2.3	2.2	0.16	1.1	0.41	0.1	0.00	0.12	0.06
70	1.8	1.2	1.2	1.2	0.10	1.8	0.46	0.4	0.13	0.18	0.17
109	0.23	0.12	0.10	0.11	0.08	6.8	0.86	7.5	0.02	0.06	0.10

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 63 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
37°22.6'N	122°28.4'W	02/10/84	1956 GMT	10 m	1223 - 1743 PST	1224 PST	1809 PST	1613.0 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	81.4	62.3	71.9	0.26					3.59	0.98
5	33	73.3	70.9	72.1	0.25					4.01	0.77
9	21	72.1	91.9	82.0	0.40					4.44	0.88
13	11	74.5	70.9	72.7	0.39					3.73	0.96
25	1.8	14.3	-	14.3	0.17					2.66	0.82
39	0.23	1.8	2.1	1.9	0.22					1.79	3.41

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 63 66

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
36°51.2'N	123°39.4'W	02/11/84	2006 GMT	27 m	1235 - 1815 PST	1228 PST	1815 PST	195.2 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.6	2.5	2.5	0.18	4.0	0.32	0.2	0.00	0.12	0.06
21	33	3.3	2.7	3.0	0.13	3.1	0.41	0.2	0.00	0.13	0.08
28	21	2.0	3.0	2.5	0.14	2.2	0.46	0.2	0.00	0.16	0.10
41	11	4.0	3.5	3.7	0.12	2.1	0.46	0.2	0.00	0.19	0.12
73	1.8	0.43	0.52	0.48	0.09	7.2	0.92	7.6	0.04	0.10	0.12
113	0.23	0.07	0.06	0.07	0.08	19.1	1.59	19.5	0.07	0.04	0.09

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 67 49

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
36°43.2'N	121°59.1'W	02/11/84	1955 GMT	15 m	1222 - 1743 PST	1222 PST	1808 PST	1114.8 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	42.4	42.0	42.2	0.23					1.20	0.64
11	33	40.3	34.7	37.5	0.19					1.13	0.72
16	21	36.3	35.4	35.9	0.24					1.57	0.63
22	11	28.2	28.4	28.3	0.22					1.57	0.51
39	1.8	2.9	2.5	2.7	0.11					0.56	0.66
62	0.23	0.37	0.64	0.50	0.13					0.30	0.43

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 67 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
35°27.5'N	124°56.1'W	02/12/84	2000 GMT	25 m	1234 - 1828 PST	1234 PST	1828 PST	207.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.0	2.1	2.0	0.17					-	-
19	33	1.7	2.2	2.0	0.18					0.12	0.08
26	21	3.2	3.4	3.3	0.17					0.12	0.08
38	11	3.0	3.0	3.0	0.20					0.14	0.09
67	1.8	2.0	2.0	2.0	0.13					0.27	0.14
105	0.23	0.14	0.14	0.14	0.08					0.06	0.08

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 68.3 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
36°10.6'N	122°34.5'W	02/12/84	1948 GMT	17 m	1220 - 1746 PST	1220 PST	1814 PST	974.0 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	21.7	21.5	21.6	0.18	3.0	0.35	0.0	0.01	0.77	0.23
26	33	22.2	20.8	21.5	0.20	2.5	0.33	0.0	0.00	0.85	0.22
46	21	12.0	12.0	12.0	0.18	4.9	0.52	2.3	0.13	0.79	0.48
53	11	3.6	3.6	3.6	0.12	7.8	0.77	7.1	0.10	0.28	0.49
58	1.8	1.8	1.5	1.6	0.13	8.8	0.84	8.2	0.06	0.24	0.41
70	0.23	0.26	0.22	0.24	0.10	11.0	1.05	12.0	0.02	0.09	0.23

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 70 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
35°52.9'N	122°21.8'W	02/13/84	2000 GMT	21 m	1221 - 1748 PST	1221 PST	1813 PST	415.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	6.5	6.8	6.7	0.16					0.25	0.09
16	33	6.4	6.5	6.5	0.17					0.37	0.11
21	21	7.7	7.7	7.7	0.18					0.45	0.25
30	11	12.5	12.5	12.5	0.16					0.98	0.29
54	1.8	1.1	1.2	1.2	0.11					0.25	0.32
83	0.23	0.07	0.08	0.08	0.08					0.04	0.11

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 70 77

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
35°17.6'N	123°33.8	02/13/84	2008 GMT	23 m	1240 - 1820 PST	1236 PST	1820 PST	158.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.9	2.2	2.6	0.14	2.4	0.39	0.2	0.00	0.14	0.06
18	33	3.1	3.1	3.1	0.15	2.4	0.39	0.2	0.00	0.12	0.06
24	21	3.0	2.9	3.0	0.17	2.3	0.39	0.2	0.00	0.12	0.04
35	11	2.0	1.9	2.0	0.15	2.2	0.39	0.2	0.00	0.12	0.05
63	1.8	0.97	0.94	0.95	0.13	2.3	0.39	0.2	0.00	0.14	0.04
96	0.23	0.24	0.27	0.26	0.09	3.1	0.44	1.0	0.12	0.12	0.10

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 73 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
35°18.5'N	121°57.8'W	02/14/84	1957 GMT	15 m	1216 - 1742 PST	1216 PST	1813 PST	320.0 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	4.8	-	4.8	0.16					0.31	0.08
12	33	8.9	8.8	8.9	0.18					0.33	0.10
16	21	7.6	8.2	7.9	0.17					0.98	0.22
22	11	7.6	7.5	7.6	0.16					0.37	0.19
40	1.8	3.9	4.5	4.2	0.15					0.42	0.22
62	0.23	0.47	0.49	0.48	0.11					0.23	0.29

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 73 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°38.8'N	123°22.3'W	02/14/84	1936 GMT	24 m	1239 - 1824 PST	1239 PST	1823 PST	266.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.65	0.59	0.62	0.17					0.12	0.08
18	33	3.1	3.1	3.1	0.17					0.14	0.10
25	21	3.5	3.7	3.6	0.18					0.16	0.10
37	11	5.7	4.4	5.1	0.19					0.18	0.11
65	1.8	2.5	2.5	2.5	0.12					0.18	0.12
101	0.23	0.29	0.32	0.31	0.11					0.07	0.10

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 77 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°53.3'N	121°11.9'W	02/15/84	1947 GMT	10 m	1217 - 1748 PST	1217 PST	1817 PST	1081.6 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	41.4	39.9	40.7	0.27					2.70	0.17
8	33	35.7	35.8	35.7	0.29					2.58	0.48
11	21	39.5	39.1	39.3	0.32					2.85	0.38
15	11	37.7	61.3	49.5	0.32					2.73	0.64
27	1.8	12.9	14.6	13.8	0.21					2.72	0.66
41	0.23	0.80	1.3	1.0	0.18					1.70	0.61

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 77 56

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°53.4'N	121°16.0'W	02/08/84	2002 GMT	10 m	1238 - 1757 PST	1219 PST	1807 PST	805.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	31.7	15.8	23.7	0.32	0.1	0.36	0.0	0.00	1.54	0.79
7	33	30.8	31.4	31.1	0.35	0.1	0.36	0.0	0.00	1.68	0.62
10	21	30.6	30.0	30.3	0.37	0.1	0.36	0.0	0.00	1.74	0.61
15	11	26.8	28.4	27.6	0.37	0.0	0.36	0.0	0.00	1.95	0.64
27	1.8	13.4	15.0	14.2	0.43	0.0	0.39	0.1	0.01	2.37	0.85
42	0.23	2.4	2.8	2.6	0.34	0.0	0.41	0.1	0.00	2.66	0.66

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 77 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°44.0'N	123°38.4'W	02/15/84	1931 GMT	22 m	1228 - 1823 PST	1229 PST	1821 PST	245.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	1.9	2.0	2.0	0.18					0.11	0.04
17	33	3.4	3.4	3.4	0.18					0.12	0.06
23	21	4.2	4.4	4.3	0.18					0.13	0.05
34	11	5.6	4.1	4.9	0.19					0.20	0.11
61	1.8	2.0	1.9	2.0	0.13					0.22	0.17
92	0.23	0.11	0.11	0.11	0.09					0.05	0.11

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°19.0'N	120°48.0'W	02/16/84	1937 GMT	9 m	1212 - 1745 PST	1212 PST	1819 PST	1056.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	35.0	-	35.0	0.34					2.64	0.39
8	33	59.7	54.6	57.2	0.36					2.56	0.51
10	21	55.4	57.6	56.5	0.34					2.68	0.41
14	11	47.0	46.7	46.9	0.32					2.72	0.40
24	1.8	16.6	2.9	9.8	0.53					2.62	0.43
37	0.23	3.6	2.6	3.1	0.45					2.65	0.40

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 80 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°09.0'N	121°09.0'W	02/21/84	1946 GMT	9 m	1220 - 1750 PST	1224 PST	1823 PST	1021.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	27.4	25.1	26.2	0.33					2.38	0.49
8	33	55.8	57.3	56.5	0.36					2.50	0.44
10	21	52.0	49.6	50.8	0.37					2.35	0.48
13	11	44.8	46.7	45.7	0.47					2.74	0.31
24	1.8	17.7	13.9	15.8	0.53					2.90	0.55
37	0.23	1.4	2.5	2.0	0.38					2.38	0.73

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°49.0'N	121°50.1'W	02/17/84	1943 GMT	11 m	1216 - 1820 PST	1217 PST	1820 PST	694.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	3.7	2.4	3.1	0.29					1.09	0.60
8	33	23.6	22.6	23.1	0.24					0.79	0.80
12	21	26.0	27.9	27.0	0.30					-	-
17	11	24.4	21.5	23.0	0.31					0.95	0.77
30	1.8	12.0	13.4	12.7	0.30					1.15	0.64
47	0.23	2.5	3.3	2.9	0.44					0.32	1.61

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 80 71

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°48.8'N	121°54.7'W	02/16/84	1955 GMT	10 m	1225 - 1818 PST	1221 PST	1816 PST	321.2 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	4.5	4.0	4.3	0.38	1.1	0.36	0.2	0.00	0.58	0.34
7	33	13.4	12.9	13.1	0.30	1.1	0.34	0.2	0.00	0.66	0.34
10	21	14.2	14.2	14.2	0.28	1.1	0.36	0.2	0.00	0.65	0.34
15	11	13.1	9.6	11.4	0.34	1.0	0.33	0.2	0.00	0.67	0.39
27	1.8	5.2	5.7	5.7	0.31	1.0	0.35	0.2	0.00	0.64	0.35
42	0.23	1.7	1.6	1.7	0.54	1.1	0.37	0.3	0.01	0.86	0.40

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 81.7 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°17.3'N	120°02.5'W	02/18/84	1945 GMT	9 m	1214 - 1747 PST	1214 PST	1816 PST	1134.0 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	63.9	64.4	64.2	0.33					1.94	0.42
7	33	65.9	67.4	66.7	0.33					2.47	0.48
9	21	60.0	63.5	61.7	0.33					1.74	0.49
13	11	54.3	52.6	53.5	0.33					2.47	0.44
24	1.8	1.5	1.7	1.6	0.14					0.19	0.18
37	0.23	0.47	0.66	0.56	0.10					0.13	0.16

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 82 46

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
34°16.2'N	119°56.2'W	02/19/84	2005 GMT	7 m	1216 - 1745 PST	1216 PST	1817 PST	1301.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	120.9	91.7	106.3	0.45					3.43	0.34
6	33	78.3	78.5	78.4	0.45					3.28	0.37
8	21	75.9	76.6	76.3	0.47					3.25	0.50
11	11	62.9	67.3	65.0	0.39					3.37	0.56
19	1.8	11.4	11.7	11.6	0.22					1.05	0.84
29	0.23	0.40	-	0.40	0.10					0.18	0.20

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 83 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°44.6'N	120°24.5'W	02/20/84	1913 GMT	14 m	1214 - 1747 PST	1214 PST	1820 PST	1213.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	31.3	34.5	32.9	0.21						0.98
10	33	38.3	37.5	37.9	0.26						1.38
14	21	36.9	34.8	35.9	0.30						1.18
20	11	35.9	33.6	34.7	0.22						1.25
38	1.8	9.2	10.2	9.7	0.39						1.06
58	0.23	0.43	0.34	0.39	0.35						0.25

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°36.1'N	122°48.3'W	02/19/84	1949 GMT	25 m	1223 - 1824 PST	1225 PST	1821 PST	139.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.66	0.55	0.60	0.14					0.07	0.04
19	33	1.4	1.5	1.5	0.16					0.07	0.05
26	21	1.5	1.6	1.6	0.14					0.07	0.04
38	11	1.7	1.7	1.7	0.15					0.07	0.04
67	1.8	1.0	0.94	0.97	0.13					0.08	0.04
105	0.23	1.5	1.6	1.6	0.09					0.24	0.23

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 83 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°19.7'N	123°25.5'W	02/18/84	1940 GMT	24 m	1232 - 1828 PST	1228 PST	1828 PST	187.0 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.22	0.25	0.23	0.16					0.12	0.07
18	33	2.1	1.9	2.0	0.16					0.12	0.07
25	21	2.4	2.0	2.2	0.17					0.11	0.06
37	11	2.4	2.1	2.2	0.16					0.11	0.06
66	1.8	2.8	2.5	2.7	0.14					0.29	0.14
101	0.23	0.41	0.45	0.43	0.11					0.11	0.16

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 85 42

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°52.9'N	119°18.6'W	02/22/84	1942 GMT	17 m	1212 - 1748 PST	1212 PST	1816 PST	1128.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	28.5	30.1	29.3	0.21	2.6	0.43	0.3	0.04	1.08	0.20
12	33	32.7	33.5	33.1	0.25	2.8	0.43	0.3	0.04	1.09	0.28
17	21	27.1	27.8	27.5	0.19	2.9	0.43	0.3	0.05	1.05	0.36
24	11	24.1	23.0	23.6	0.23	3.0	0.45	0.5	0.06	1.03	0.32
45	1.8	7.1	-	7.1	0.13	3.0	0.49	0.9	0.10	0.79	0.28
70	0.23	0.88	1.2	1.0	0.15	4.9	0.64	3.2	0.11	0.46	0.37

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 85 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°17.0'N	120°33.1'W	02/23/84	1933 GMT	10 m	1214 - 1751 PST	1215 PST	1822 PST	1673.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	55.5	57.9	56.7	0.29	3.3	0.45	1.3	0.04	2.78	0.35
7	33	74.3	74.0	74.2	0.46	3.3	0.44	1.3	0.04	2.83	0.41
10	21	70.4	69.7	70.1	0.48	3.2	0.45	1.3	0.04	2.71	0.50
14	11	58.4	63.7	61.1	0.50	3.2	0.45	1.3	0.04	2.76	0.43
26	1.8	24.1	24.5	24.3	0.27	3.2	0.46	1.4	0.04	2.82	0.53
41	0.23	5.2	5.9	5.6	0.22	3.1	0.46	1.3	0.05	2.90	0.45

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 85.8 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°34.6'N	119°33.7'W	02/25/84	1942 GMT	8 m	1211 - 1753 PST	1212 PST	1819 PST	1914.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	65.5	51.1	58.3	0.31	1.2	0.44	1.4	0.03	3.65	0.32
7	33	105.5	112.9	109.2	0.38	1.2	0.43	1.3	0.04	3.73	0.33
9	21	118.1	105.2	111.7	0.35	1.0	0.45	1.5	0.04	3.72	0.44
12	11	95.4	85.4	90.4	0.35	1.0	0.43	1.3	0.04	3.88	0.25
21	1.8	37.3	37.1	37.2	0.27	1.0	0.44	1.4	0.04	3.86	0.48
33	0.23	6.2	4.5	5.4	0.23	1.4	0.45	1.6	0.04	3.70	0.53

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 86.1 68.6

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°48.5'N	121°00.8'W	02/24/84	1957 GMT	17 m	1215 - 1755 PST	1215 PST	1826 PST	315.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	1.3	1.3	1.3	0.15	1.9	0.31	0.1	0.00	0.38	0.08
13	33	7.3	7.5	7.4	0.16	1.9	0.34	0.1	0.00	0.37	0.10
17	21	8.0	8.1	8.1	0.16	1.9	0.33	0.1	0.00	0.37	0.08
24	11	7.9	7.9	7.9	0.16	1.9	0.34	0.1	0.00	0.37	0.08
44	1.8	3.7	-	3.7	0.15	1.9	0.33	0.0	0.00	0.38	0.10
69	0.23	0.77	0.75	0.76	0.10	4.7	0.60	4.7	0.02	0.26	0.18

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°29.4'N	119°19.1'W	02/29/84	1957 GMT	21 m	1210 - 1753 PST	1210 PST	1820 PST	631.6 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	5.7	6.1	5.9	0.13					0.20	0.07
15	33	7.4	6.7	7.1	0.16					0.22	0.07
22	21	6.7	6.3	6.5	0.16					0.21	0.09
30	11	7.1	6.8	7.0	0.17					0.30	0.10
56	1.8	12.1	12.0	12.1	0.16					1.50	0.73
86	0.23	0.24	0.20	0.22	0.08					0.20	0.23

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 87 100

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°41.5'N	123°01.9'W	02/20/84	1938 GMT	31 m	1228 - 1825 PST	1226 PST	1825 PST	207.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.46	0.54	0.50	0.14					0.08	0.05
23	33	2.3	2.2	2.2	0.17					0.09	0.04
33	21	2.7	2.7	2.7	0.14					0.09	0.05
47	11	2.4	2.3	2.4	0.17					0.09	0.05
84	1.8	1.6	1.6	1.6	0.13					0.11	0.05
131	0.23	0.25	0.06	0.16	0.10					0.07	0.09

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 87.5 34

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°43.1'N	118°28.1'W	02/26/84	1943 GMT	13 m	1206 - 1749 PST	1207 PST	1815 PST	2195.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	51.7	56.4	54.1	0.24	1.3	0.39	0.0	0.04	1.27	0.36
9	33	57.7	59.8	58.7	0.30	1.1	0.38	0.0	0.03	1.41	0.50
13	21	103.7	101.7	102.7	0.55	2.1	0.43	0.5	0.08	2.80	0.45
20	11	80.1	78.6	79.4	0.45	2.5	0.46	1.1	0.10	2.93	0.37
34	1.8	10.4	9.4	9.9	0.62	4.8	0.72	4.2	0.22	1.38	0.76
54	0.23	0.08	0.67	0.38	0.52	8.2	0.96	9.2	0.09	0.25	0.22

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 88.3 58

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°46.7'N	120°01.4'W	02/28/84	1934 GMT	10 m	1211 - 1756 PST	1213 PST	1824 PST	772.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	0.35	0.35	0.35	0.24	0.5	0.36	0.3	0.02	2.74	0.60
7	33	33.3	34.8	34.0	0.24	0.5	0.37	0.2	0.02	1.64	0.68
11	21	44.1	45.5	44.8	0.35	0.5	0.36	0.2	0.01	1.58	0.52
15	11	36.9	38.5	37.7	0.38	0.5	0.36	0.1	0.01	1.40	0.58
27	1.8	10.0	8.1	9.1	0.34	0.5	0.35	0.0	0.00	1.49	0.40
41	0.23	0.28	0.18	0.23	0.28	0.3	0.34	0.1	0.00	1.28	0.52

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 89.1 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
33°24.4'N	118°21.1'W	03/01/84	1930 GMT	21 m	1208 - 1755 PST	1208 PST	1818 PST	

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	3.2	3.1	3.2	0.14	3.4	0.29	0.1	0.00	0.13	0.03
14	33	5.1	5.1	5.1	0.15	3.4	0.32	0.1	0.00	0.13	0.04
21						3.3	0.31	0.0	0.00	0.15	0.02
30						3.2	0.29	0.0	0.00	0.22	0.16
52						4.1	0.37	0.3	0.03	0.59	0.21
82						11.9	1.01	11.0	0.06	0.18	0.19

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 45

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°55.1'N	118°56.1'W	03/03/84	1940 GMT	26 m	1206 - 1752 PST	1206 PST	1822 PST	353.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	3.7	3.9	3.8	0.13					0.15	0.05
19	33	4.3	4.3	4.3	0.19					0.15	0.04
27	21	5.1	5.5	5.3	0.17					0.22	0.05
37	11	6.9	-	6.9	0.16					0.31	0.09
68	1.8	2.0	1.9	2.0	0.10					0.34	0.25
106	0.23	0.07	0.06	0.07	0.07					0.03	0.07

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 90 53

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°39.1'N	119°28.3'W	03/04/84	1934 GMT	21 m	1209 - 1758 PST	1209 PST	1826 PST	444.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	7.9	7.5	7.7	0.14					0.25	0.07
16	33	8.1	8.3	8.2	0.20					0.31	0.21
22	21	8.7	7.5	8.1	0.18					0.39	0.16
31	11	8.8	9.3	9.1	0.10					0.43	0.21
56	1.8	2.6	2.7	2.7	0.14					0.33	0.29
86	0.23	0.18	0.21	0.20	0.10					0.11	0.14

RV NEW HORIZON | CALCOFI CRUISE 8402-3 | STATION 90 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°05.2'N	120°38.4'W	02/21/84	1931 GMT	16 m	1216 - 1818 PST	1216 PST	1813 PST	530.6 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	5.1	5.0	5.1	0.09					0.31	0.17
13	33	8.2	8.4	8.3	0.20					0.31	0.21
17	21	9.9	9.4	9.6	0.23					0.33	0.18
24	11	10.5	10.2	10.4	0.28					0.39	0.25
44	1.8	9.6	10.0	9.8	0.26					0.61	0.51
67	0.23	2.0	2.0	2.0	0.26					0.81	0.41

RV DAVID STARR JORDAN | CALCOFI CRUISE 8402-3 | STATION 90.8 39

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°58.8'N	118°25.9'W	03/02/84	1924 GMT	32 m	1204 - 1750 PST	1204 PST	1821 PST	394.6 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	2.0	2.2	2.1	0.10	2.9	0.34	0.0	0.00	0.12	0.03
24	33	6.5	5.7	6.1	0.16	3.0	0.33	0.0	0.00	0.18	0.06
33	21	5.8	5.3	5.6	0.15	3.0	0.34	0.0	0.00	0.24	0.05
47	11	7.2	7.7	7.5	0.12	3.1	0.38	0.2	0.01	0.35	0.11
84	1.8	0.31	0.34	0.33	0.08	14.5	1.22	14.3	0.01	0.08	0.11
130	0.23	0.05	0.06	0.06	0.07	27.3	1.75	23.4	0.00	0.00	0.03

RV DAVID STARR JORDAN | CALCOFI CRUISE 8402-3 | STATION 91.7 46

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°35.4'N	118°48.4'W	03/05/84	1927 GMT	23 m	1205 - 1755 PST	1205 PST	1823 PST	638.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
2	100	2.1	2.0	2.0	0.12	3.4	0.34	0.1	0.00	0.18	0.02
19	33	11.1	10.8	11.0	0.17	2.5	0.34	0.1	0.00	0.32	0.08
24	21	16.9	14.7	15.8	0.16	2.3	0.34	0.0	0.00	0.60	0.15
35	11	15.4	15.4	15.4	0.14	3.2	0.36	0.1	0.02	0.67	0.15
62	1.8	2.5	2.5	2.5	0.08	12.3	1.06	11.0	0.14	0.30	0.20
95	0.23	0.11	0.14	0.13	0.09	21.8	1.59	20.2	0.02	0.04	0.09

RV NEW HORIZON | CALCOFI CRUISE 8402-3 | STATION 92 77

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°25.4'N	120°50.6'W	02/22/84	1933 GMT	13 m	1234 - 1826 PST	1219 PST	1822 PST	439.6 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.36	0.76	0.56	0.21	2.1	0.39	0.2	0.00	0.60	0.28
9	33	12.4	12.3	12.4	0.21	2.1	0.37	0.2	0.00	0.55	0.33
14	21	13.5	13.0	13.3	0.24	2.1	0.38	0.2	0.00	0.54	0.27
20	11	12.8	12.5	12.7	0.27	2.0	0.38	0.2	0.00	0.56	0.33
36	1.8	6.9	7.5	7.2	0.27	2.0	0.40	0.2	0.00	0.54	0.33
55	0.23	1.1	1.3	1.2	0.28	1.8	0.40	0.2	0.00	0.61	0.31

RV DAVID STARR JORDAN | CALCOFI CRUISE 8402-3 | STATION 92.5 44

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°31.1'N	118°34.8'W	03/06/84	1942 GMT	34 m	1204 - 1754 PST	1205 PST	1822 PST	328.8 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.1	2.1	2.1	0.15	2.6	0.31	0.0	0.00	0.17	0.04
25	33	4.8	4.8	4.8	0.21	2.6	0.30	0.0	0.00	0.23	0.04
35	21	4.4	5.2	4.8	0.20	2.4	0.30	0.0	0.00	0.25	0.05
50	11	5.1	-	5.1	0.18	2.4	0.30	0.0	0.00	0.29	0.08
90	1.8	0.39	0.41	0.40	0.08	11.5	1.06	11.9	0.02	0.12	0.12
139	0.23	0.03	0.02	0.02	0.08	24.6	1.73	22.7	0.01	0.01	0.03

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 30

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°50.8'N	117°32.0'W	03/07/84	1938 GMT	22 m	1158 - 1752 PST	1200 PST	1820 PST	713.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	6.3	6.3	6.3	0.15					0.19	0.03
16	33	11.2	10.7	11.0	0.23					0.25	0.04
22	21	10.6	12.0	11.3	0.24					0.35	0.06
33	11	17.0	15.9	16.5	0.26					0.71	0.16
58	1.8	5.1	5.1	5.1	0.16					0.67	0.40
90	0.23	0.12	0.33	0.22	0.08					0.10	0.23

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°40.7'N	117°52.4'W	03/08/84	1927 GMT	29 m	1200 - 1753 PST	1201 PST	1821 PST	473.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	4.1	4.1	4.1	0.12					0.14	0.02
22	33	4.3	4.4	4.4	0.2					0.18	0.03
30	21	4.3	4.4	4.4	0.17					0.17	0.06
42	11	9.3	8.7	9.0	0.14					0.52	0.16
77	1.8	2.7	2.9	2.8	0.11					0.42	0.37
118	0.23	0.03	0.01	0.02	0.09					0.02	0.09

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°50.7'N	119°34.3'W	03/09/84	1925 GMT	25 m	1201 - 1740 PST	1211 PST	1829 PST	346.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	3.3	3.1	3.2	0.12					0.11	0.01
18	33	3.9	4.0	4.0	0.21					0.12	0.02
26	21	3.3	3.1	3.2	0.2					0.12	0.03
37	11	3.7	3.8	3.7	0.19					0.16	0.04
66	1.8	4.7	4.7	4.7	0.13					0.55	0.32
102	0.23	0.48	0.50	0.49	0.09					0.18	0.26

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 93 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°49.2'N	121°35.3'W	02/26/84	1929 GMT	25 m	1224 - 1829 PST	1219 PST	1829 PST	146.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.23	0.36	0.30	0.12					0.10	0.04
19	33	1.7	1.8	1.7	0.29					0.10	0.04
26	21	2.3	2.2	2.2	0.14					0.10	0.05
38	11	2.4	2.2	2.3	0.14					0.10	0.05
68	1.8	1.3	1.3	1.3	0.12					0.11	0.05
105	0.23	0.39	0.54	0.47	0.13					0.13	0.07

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 95 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°13.1'N	118°01.3'W	03/10/84	1925 GMT	33 m	1200 - 1756 PST	1200 PST	1825 PST	320.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	1.5	1.5	1.5	0.11	3.7	0.29	0.2	0.01	0.12	0.01
25	33	4.0	3.9	4.0	0.14	3.6	0.29	0.1	0.00	0.13	0.03
34	21	3.5	3.9	3.7	0.13	3.6	0.29	0.1	0.00	0.16	0.04
47	11	3.7	4.3	4.0	0.14	3.5	0.29	0.1	0.00	0.22	0.08
87	1.8	2.0	2.1	2.0	0.09	6.3	0.61	3.8	0.11	0.33	0.16
135	0.23	0.03	0.00	0.01	0.09	21.6	1.50	20.2	0.01	0.02	0.04

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 95.3 28.4

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°33.2'N	117°11.8'W	03/13/84	2016 GMT	11 m	1223 - 1820 PST	1221 PST	1823 PST	788.8 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	29.1	28.7	28.9	0.37	3.9	0.41	0.4	0.00	1.02	0.25
14	33	33.1	38.3	35.7	0.36	4.3	0.52	1.0	0.04	1.22	0.32
30	21	7.0	6.5	6.8	0.24	9.7	1.01	6.9	0.33	0.57	1.00

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 95.8 43

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°58.7'N	118°07.9'W	03/28/84	1930 GMT	25 m	1157 - 1813 PST	1157 PST	1833 PST	330.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	2.2	2.1	2.2	0.13	1.5	0.27	0.1	0.01	0.12	0.03
18	33	3.5	3.6	3.6	0.13	1.1	0.31	0.1	0.00	0.14	0.04
25	21	4.7	4.3	4.5	0.13	1.4	0.31	0.1	0.00	0.15	0.08
36	11	4.8	4.7	4.8	0.11	1.6	0.31	0.1	0.01	0.23	0.11
65	1.8	3.8	4.0	3.9	0.11	3.1	0.55	2.7	0.19	0.47	0.31
101	0.23	0.17	0.15	0.16	0.09	14.6	1.19	14.1	0.20	0.06	0.12

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 96.9 28.9

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
32°15.2'N	117°02.7'W	03/27/84	1941 GMT	14 m	1200 - 1812 PST	1158 PST	1812 PST	350.5 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	5.3	5.6	5.5	0.30	3.0	0.30	0.1	0.00	0.21	0.07
10	33	7.7	8.6	8.2	0.27	2.7	0.31	0.1	0.00	0.26	0.04
14	21	8.1	8.8	8.5	0.31	2.9	0.30	0.1	0.00	0.28	0.05
20	11	11.4	10.7	11.1	0.34	3.1	0.32	0.0	0.00	0.66	0.15
37	1.8	5.1	4.9	5.0	0.16	8.8	0.83	7.1	0.56	0.50	0.55
57	0.23	0.35	0.23	0.29	0.16	13.1	1.18	12.5	0.53	0.26	0.31

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 97 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°36.5'N	118°29.0'W	03/14/84	2002 GMT	21 m	1211 - 1805 PST	1204 PST	1829 PST	217.2 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	3.2	3.0	3.1	0.16					0.15	0.02
17	33	5.3	3.6	4.5	0.17					0.18	0.01
21	21	4.0	3.8	3.9	0.18					0.18	0.02
30	11	3.5	3.4	3.5	0.17					0.13	0.10
55	1.8	1.7	2.1	1.9	0.16					0.31	0.01
86	0.23	0.42	0.29	0.36	0.10					0.29	0.23

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 97 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°35.6'N	120°29.6'W	02/27/84	1916 GMT	38 m	1217 - 1818 PST	1215 PST	1818 PST	471.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.15	0.33	0.24	0.11					0.06	0.03
28	33	1.1	1.1	1.1	0.18					0.07	0.03
41	21	2.2	1.7	2.0	0.15					0.08	0.05
58	11	5.2	4.7	5.0	0.14					0.17	0.12
103	1.8	5.2	5.0	5.1	0.15					0.36	0.30
160	0.23	0.03	0.03	0.03	0.08					0.02	0.03

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 98.4 65.1

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°47.1'N	119°19.0'W	03/15/84	1944 GMT	24 m	1201 - 1810 PST	1201 PST	1833 PST	254.8 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	0.95	1.1	1.0	0.14	2.7	0.32	0.1	0.00	0.09	0.02
18	33	2.7	2.0	2.4	0.16	2.6	0.32	0.0	0.00	0.15	0.03
25	21	3.8	3.6	3.7	0.18	2.6	0.32	0.0	0.00	0.18	0.03
36	11	3.8	3.5	3.7	0.17	2.6	0.32	0.0	0.00	0.21	0.06
64	1.8	3.4	3.6	3.5	0.09	2.4	0.37	0.2	0.04	0.55	0.19
98	0.23	0.16	0.13	0.15	0.14	7.5	0.74	7.0	0.05	0.10	0.13

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 99.1 48

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°14.3'N	118°05.3'W	03/26/84	1957 GMT	19 m	1213 - 1800 PST	1213 PST	1834 PST	185.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	5.5	4.0	4.8	0.15	2.4	0.26	0.0	0.03	0.12	0.10
14	33	4.1	4.2	4.2	0.17	1.9	0.26	0.0	0.00	0.17	0.05
19	21	4.9	5.0	5.0	0.17	1.9	0.27	0.0	0.00	0.18	0.06
27	11	3.1	2.9	3.0	0.18	1.9	0.27	0.0	0.00	0.18	0.07
50	1.8	1.2	1.2	1.2	0.14	2.0	0.28	0.0	0.00	0.20	0.16
77	0.23	0.31	0.19	0.25	0.10	6.3	0.68	5.6	0.17	0.16	0.24

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100 39

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°23.4'N	117°23.4'W	03/16/84	1936 GMT	22 m	1158 - 1800 PST	1158 PST	1826 PST	295.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	1.7	1.9	1.8	0.15	2.7	0.32	0.1	0.00	0.12	0.04
16	33	4.8	4.9	4.9	0.20	3.0	0.28	0.0	0.00	0.16	0.03
22	21	4.3	5.1	4.7	0.18	2.7	0.28	0.0	0.00	0.13	0.05
32	11	3.9	3.8	3.9	0.17	2.6	0.28	0.0	0.00	0.14	0.10
58	1.8	4.0	3.9	4.0	0.14	4.5	0.50	1.7	0.18	0.62	0.30
89	0.23	0.30	0.38	0.34	0.10	10.1	0.92	9.8	0.02	0.11	0.17

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 100 90

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°40.8'N	120°48.0'W	02/28/84	1915 GMT	42 m	1220 - 1829 PST	1220 PST	1828 PST	237.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.66	0.66	0.66	0.14					0.05	0.03
31	33	1.2	1.2	1.2	0.16					0.05	0.05
45	21	1.6	1.7	1.7	0.17					0.07	0.03
63	11	1.7	1.6	1.7	0.16					0.08	0.05
114	1.8	2.1	2.0	2.0	0.11					0.21	0.26
177	0.23	0.01	0.02	0.01	0.07					0.01	0.02

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 100.8 42

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
31°08.8'N	117°29.8'W	03/25/84	1941 GMT	20 m	1158 - 1813 PST	1156 PST	1832 PST	163.8 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	3.9	3.7	3.8	0.14	2.1	0.28	0.1	0.00	0.16	0.01
14	33	3.5	3.6	3.5	0.16	2.0	0.29	0.1	0.00	0.15	0.03
20	21	3.5	2.5	3.0	0.20	2.0	0.29	0.0	0.00	0.12	0.03
29	11	2.0	2.5	2.2	0.23	2.0	0.29	0.0	0.00	0.16	0.03
52	1.8	1.6	1.5	1.6	0.17	1.7	0.30	0.0	0.00	0.18	0.07
81	0.23	0.26	0.14	0.20	0.15	5.3	0.68	5.1	0.15	0.25	0.20

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 102.5 41

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°52.9'N	117°13.8'W	03/24/84	1931 GMT	22 m	1159 - 1808 PST	1154 PST	1829 PST	204.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	3.0	3.6	3.3	0.13	1.7	0.49	0.1	0.00	0.12	0.02
17	33	2.0	2.5	2.2	0.21	2.1	0.33	0.1	0.00	0.13	0.02
23	21	3.6	2.7	3.2	0.24	1.9	0.31	0.1	0.00	0.13	0.04
33	11	2.8	2.7	2.7	0.31	2.1	0.31	0.1	0.00	0.16	0.05
59	1.8	2.6	2.5	2.5	0.15	2.2	0.32	0.1	0.00	0.28	0.10
90	0.23	0.42	0.29	0.36	0.12	5.0	0.69	4.7	0.09	0.23	0.19

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 103 36

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°54.8'N	116°48.7'W	03/17/84	1946 GMT	16 m	1203 - 1815 PST	1155 PST	1825 PST	834.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	9.8	3.3	6.6	0.17					0.57	0.16
13	33	19.1	19.2	19.2	0.23					0.89	0.33
17	21	26.2	30.7	28.5	0.25					1.12	0.23
24	11	24.2	24.6	24.4	0.28					0.87	0.36
43	1.8	7.6	6.9	7.3	0.18					0.25	0.21
66	0.23	0.65	0.58	0.61	0.10						

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 103 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°27.1'N	119°45.9'W	02/29/84	1922 GMT	29 m	1214 - 1819 PST	1211 PST	1818 PST	224.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.64	0.59	0.61	0.15					0.08	0.04
22	33	2.3	2.2	2.2	0.15					0.08	0.04
30	21	2.4	2.4	2.4	0.15					0.08	0.04
44	11	2.4	2.1	2.2	0.14					0.09	0.03
79	1.8	2.3	2.3	2.3	0.13					0.15	0.09
121	0.23	0.84	0.66	0.75	0.08					0.12	0.17

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 104.2 59.9

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°58.2'N	118°18.2'W	03/18/84	1948 GMT	27 m	1204 - 1805 PST	1201 PST	1825 PST	164.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.79	0.95	0.87	0.07	2.1	0.35	0.0	0.00	0.08	0.01
20	33	1.7	2.2	2.0	0.15	2.1	0.30	0.0	0.00	0.10	0.01
27	21	2.2	2.1	2.2	0.16	2.1	0.29	0.1	0.00	0.10	0.02
39	11	1.9	-	1.9	0.16	2.0	0.28	0.1	0.00	0.11	0.02
71	1.8	1.6	1.5	1.6	0.14	2.1	0.32	0.0	0.01	0.22	0.07
109	0.23	0.44	0.57	0.51	0.10	2.9	0.36	0.7	0.10	0.31	0.24

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 105 37

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°35.4'N	116°41.1'W	03/23/84	1922 GMT	14 m	1152 - 1802 PST	1152 PST	1827 PST	823.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	12.8	15.9	14.4	0.20	2.7	0.35	0.1	0.01	0.34	0.02
11	33	14.4	11.4	12.9	0.30	2.7	0.33	0.1	0.01	0.33	0.05
15	21	15.0	13.1	14.1	0.34	2.6	0.32	0.1	0.01	0.44	0.11
21	11	14.2	15.0	14.6	0.40	2.9	0.33	0.1	0.00	0.68	0.16
38	1.8	23.3	20.2	21.7	0.28	4.7	0.49	1.3	0.14	1.88	0.34
58	0.23	0.79	0.67	0.73	0.22	7.9	0.84	7.3	0.21	0.52	0.33

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 34

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°23.5'N	116°17.8'W	03/22/84	1924 GMT	16 m	1150 - 1804 PST	1153 PST	1825 PST	434.7 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	5.9	5.5	5.7	0.25	3.1	0.34	0.1	0.00	0.32	0.13
12	33	15.0	12.1	13.6	0.30	2.8	0.34	0.1	0.00	0.49	0.14
16	21	12.2	13.3	12.8	0.31	2.6	0.33	0.1	0.00	0.46	0.20
23	11	7.6	6.9	7.3	0.26	2.6	0.33	0.1	0.00	0.45	0.13
42	1.8	5.9	-	5.9	0.14	2.4	0.39	0.1	0.00	0.58	0.22
65	0.23	0.24	0.20	0.22	0.12	5.2	0.64	4.6	0.03	0.28	0.14

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 107 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°31.5'N	118°01.3'W	03/21/84	1943 GMT	26 m	1201 - 1805 PST	1201 PST	1825 PST	158.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	2.1	2.2	2.2	0.13					0.07	0.02
20	33	2.2	2.1	2.2	0.08					0.09	0.02
27	21	2.3	2.3	2.3	0.21					0.11	0.01
38	11	2.3	2.4	2.4	0.23					0.16	0.01
69	1.8	0.91	0.95	0.93	0.25					0.15	0.11
106	0.23	0.22	0.18	0.20	0.11					0.23	0.12

RV NEW HORIZON — CALCOFI CRUISE 8402-3 — STATION 107 75

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°03.0'N	119°00.9'W	03/01/84	1933 GMT	24 m	1212 - 1823 PST	1208 PST	1822 PST	209.3 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	1.2	1.1	1.2	0.15	2.5	0.30	0.2	0.00	0.08	0.04
18	33	3.1	3.0	3.0	0.16	2.5	0.31	0.2	0.00	0.09	0.04
25	21	3.3	3.2	3.2	0.15	2.5	0.31	0.2	0.00	0.09	0.04
37	11	2.7	2.4	2.6	0.19	2.5	0.31	0.2	0.00	0.12	0.04
66	1.8	1.8	2.1	1.9	0.14	2.6	0.35	0.2	0.00	0.18	0.11
101	0.23	0.96	0.93	0.94	0.10	4.4	0.55	2.4	0.06	0.20	0.18

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 108.3 41

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°53.2'N	116°35.4'W	03/19/84	1946 GMT	39 m	1206 - 1803 PST	1155 PST	1819 PST	242.4 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	0.47	0.68	0.57	0.09	2.0	0.29	0.0	0.00	0.08	0.02
29	33	1.8	1.8	1.8	0.21	2.1	0.29	0.0	0.00	0.12	0.01
41	21	2.1	2.5	2.3	0.21	2.0	0.27	0.0	0.00	0.13	0.02
57	11	2.7	2.3	2.5	0.22	2.2	0.30	0.0	0.00	0.19	0.02
103	1.8	1.6	1.7	1.7	0.09	4.1	0.48	2.3	0.08	0.25	0.20
159	0.23	0.05	0.04	0.05	0.07	18.0	1.36	17.5	0.01	0.02	0.04

RV DAVID STARR JORDAN — CALCOFI CRUISE 8402-3 — STATION 110 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°47.1'N	115°59.7'W	03/20/84	1926 GMT	5 m	1152 - 1800 PST	1149 PST	1817 PST	932.1 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	100	66.6	63.5	65.1	0.43					1.65	0.44
5	33	86.7	82.8	84.8	0.54					1.78	0.60
6	21	85.2	80.5	82.9	0.66					2.19	0.53
8	11	62.1	-	62.1	0.50					1.92	0.58
14	1.8	23.0	22.6	22.8	0.43					1.48	0.83
21	0.23	1.2	1.0	1.1	0.24					0.90	0.56

RV NEW HORIZON CALCOFI CRUISE 8402-3 STATION 110 98

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
27°43.5'N	120°08.1'W	03/02/84	1932 GMT	36 m	1217 - 1822 PST	1212 PST	1822 PST	154.9 mg C/m2

DEPTH m	LIGHT %	UPTAKE 1 mgC/m3	UPTAKE 2 mgC/m3	MEAN mgC/m3	DARK mgC/m3	SIO3 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	100	0.37	0.38	0.38	0.14	2.5	0.30	0.2	0.00	0.05	0.03
27	33	1.3	1.4	1.3	0.19	2.4	0.30	0.2	0.00	0.05	0.03
39	21	1.9	1.8	1.8	0.15	2.4	0.30	0.2	0.00	0.06	0.04
54	11	1.7	1.4	1.6	0.16	2.5	0.29	0.2	0.00	0.06	0.03
97	1.8	0.94	0.87	0.90	0.12	2.5	0.29	0.2	0.00	0.07	0.04
152	0.23	0.34	0.36	0.35	0.08	7.2	0.78	6.7	0.02	0.09	0.09

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

CalCOFI Cruise 8402-3

Ship	Line	Sta.	Position	Date Mo/Day	Time (GMT) Start	Time (GMT) End	Water Volume Strained (m^3)	Max. Tow Depth (m)	Volume per 1000 m^3 Strained Total (cm^3)	Volume per 1000 m^3 Strained Small (cm^3)
JD	60	50	37 56.8N 122 52.9W	2/9	2055	2100	91	43	221	221
"	60	52.5	37 51.8N 123 03.8W	2/9	2310	2319	168	86	131	131
"	60	55	37 46.8N 123 14.7W	2/10	0245	0257	228	122	110	110
"	60	60	37 36.8N 123 36.5W	2/10	0725	0747	441	213	132	120
NH	60	65	37 26.0N 123 59.9W	2/9	1835	1857	482	201	98	98
"	60	70	37 16.5N 124 20.5W	2/9	2320	2342	456	195	55	55
"	60	80	36 55.6N 125 05.1W	2/10	0544	0606	473	202	57	47
"	60	90	36 37.0N 125 48.9W	2/10	1130	1152	470	202	170	138
"	60	100	36 16.3N 126 29.1W	2/10	1730	1752	470	208	32	32
JD	63	50	37 22.6N 122 28.4W	2/10	1921	1925	61	29	164	164
"	63	52	37 18.6N 122 37.1W	2/10	2140	2149	169	86	319	319
"	63	55	37 12.6N 122 50.1W	2/11	0025	0048	425	215	176	176
"	63	60	37 02.6N 123 11.7W	2/11	0555	0617	426	206	150	132
NH	63	65	36 52.5N 123 33.3W	2/11	2135	2157	436	208	112	112
"	63	70	36 44.4N 123 54.3W	2/11	1735	1757	461	193	119	119
"	63	80	36 22.6N 124 37.5W	2/11	1140	1202	430	202	84	84
"	63	90	36 02.6N 125 20.5W	2/11	0540	0602	465	201	75	75
"	63	100	35 43.5N 126 04.4W	2/10	2340	0002	446	215	146	56
JD	67	49	36 49.2N 121 59.1W	2/11	2055	2117	401	205	115	115
"	67	50	36 46.9N 122 03.8W	2/11	2255	2317	387	210	253	253
"	67	55	36 37.2N 122 24.9W	2/12	1150	1212	411	214	477	477
"	67	60	36 27.1N 122 46.4W	2/12	1700	1722	406	213	268	268
NH	67	65	36 16.5N 123 08.4W	2/12	0325	0347	474	171	146	146
"	67	70	36 06.1N 123 28.9W	2/12	0710	0732	415	196	169	169
"	67	80	35 46.4N 124 11.8W	2/12	1300	1322	449	198	22	22
"	67	90	35 25.9N 124 55.8W	2/12	1845	1907	441	204	184	57
"	67	100	35 06.1N 125 36.2W	2/13	0035	0057	439	193	157	112
JD	70	51	36 10.9N 121 43.6W	2/13	0937	0959	397	213	91	91
"	70	53	36 06.9N 121 52.1W	2/13	1256	1317	385	212	540	241
"	70	60	35 52.9N 122 21.8W	2/13	1920	1942	402	213	134	134
NH	70	65	35 42.8N 122 44.0W	2/14	0350	0412	490	186	51	51
"	70	70	35 32.1N 123 05.0W	2/13	2345	0007	467	190	167	167
"	70	80	35 11.7N 123 47.6W	2/13	1730	1752	460	206	17	17
"	70	90	34 52.9N 124 31.7W	2/13	1145	1207	430	196	398	386
"	70	100	34 33.9N 125 10.5W	2/13	0627	0649	432	193	431	431
JD	73	50	35 38.6N 121 15.2W	2/14	0938	0942	78	28	358	358
"	73	53	35 32.6N 121 28.1W	2/14	1315	1337	437	211	121	121
"	73	60	35 18.5N 121 57.8W	2/14	2000	2022	421	215	57	57
NH	73	65	35 09.0N 122 19.8W	2/14	0930	0952	428	212	49	49
"	73	70	34 59.0N 122 40.3W	2/14	1335	1357	504	189	50	50
"	73	80	34 39.2N 123 23.2W	2/14	1945	2007	446	209	56	56
"	73	90	34 19.2N 124 02.6W	2/15	0105	0127	430	212	163	163
"	73	100	33 56.2N 124 45.4W	2/15	0659	0721	487	185	35	35
JD	77	48	35 07.3N 120 42.4W	2/15	1125	1128	60	21	302	302
"	77	51	35 01.3N 120 55.2W	2/15	1453	1515	403	215	144	144
"	77	55	34 53.3N 121 11.9W	2/15	1907	1929	406	216	111	111
"	77	60	34 43.3N 121 32.9W	2/16	0010	0032	407	216	260	260
NH	77	65	34 32.7N 121 55.6W	2/16	1105	1127	418	202	600	589
"	77	70	34 22.4N 122 16.1W	2/16	0710	0732	469	189	392	277
"	77	80	34 03.4N 122 57.4W	2/16	0122	0144	466	184	150	150
"	77	90	33 43.9N 123 39.0W	2/15	1940	2002	437	208	192	192
"	77	100	33 20.8N 124 21.9W	2/15	1325	1347	470	187	64	64

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

CalCOFI Cruise 8402-3

Ship	Line	Sta.	Position	Date Mo/Day	Time (GMT) Start	Time (GMT) End	Water Volume Strained (m^3)	Max. Tow Depth (m)	Volume per 1000 m^3 Strained Total (cm^3)	Volume per 1000 m^3 Strained Small (cm^3)
JD	80	51	34 27.0N 120 31.3W	2/16	1440	1447	127	55	435	435
"	80	55	34 19.0N 120 48.0W	2/16	1853	1915	415	215	48	48
"	80	60	34 09.0N 121 09.0W	2/21	0615	0637	412	212	177	177
"	"	"	" "	2/21	0645	0707	405	205	249	160
"	"	"	" "	2/21	0715	0736	394	201	150	150
"	"	"	" "	2/21	1405	1426	389	208	131	131
"	"	"	" "	2/21	1430	1451	396	205	149	149
"	"	"	" "	2/21	1500	1521	389	180	116	116
"	"	"	" "	2/21	2010	2034	442	197	70	70
"	"	"	" "	2/21	2043	2105	432	230	83	83
"	"	"	" "	2/21	2115	2137	426	188	68	68
"	"	"	" "	2/21	2145	2207	418	197	55	55
"	"	"	" "	2/22	0155	0216	307	205	147	147
NH	80	65	33 59.4N 121 30.3W	2/16	1640	1702	441	196	57	57
"	80	70	33 48.8N 121 54.7W	2/16	2005	2027	428	205	98	98
"	"	"	33 49.1N 121 55.4W	2/16	2030	2052	452	163	73	73
"	"	"	33 49.5N 121 55.9W	2/16	2055	2117	452	155	93	93
"	"	"	33 48.6N 121 49.2W	2/17	0205	0226	500	141	144	144
"	"	"	33 48.7N 121 49.8W	2/17	0235	0256	487	136	129	129
"	"	"	33 48.9N 121 50.3W	2/17	0300	0321	504	122	121	121
"	"	"	33 49.0N 121 52.1W	2/17	0715	0737	514	132	109	109
"	"	"	33 48.7N 121 50.5W	2/17	1415	1437	516	117	78	78
"	"	"	33 49.3N 121 51.4W	2/17	1450	1512	528	117	110	87
"	"	"	33 49.9N 121 52.2W	2/17	1520	1542	516	112	89	89
"	80	80	33 30.0N 122 33.5W	2/18	0040	0102	476	175	204	204
"	80	90	33 10.0N 123 14.9W	2/18	0638	0700	440	197	150	150
"	80	100	32 49.6N 123 55.6W	2/18	1245	1307	454	179	101	101
JD	82	46	34 16.1N 119 56.2W	2/19	2125	2147	391	218	64	64
"	83	40.6	34 13.5N 119 24.7W	2/20	0715	0718	52	22	95	95
"	83	42	34 10.7N 119 30.5W	2/20	0910	0922	218	113	60	60
"	83	51	33 52.6N 120 08.0W	2/20	1446	1451	84	42	96	96
"	83	55	33 44.6N 120 24.5W	2/20	1825	1847	400	215	53	53
"	83	60	33 34.7N 120 45.3W	2/20	2330	2352	401	214	548	548
"	83	65	33 24.7N 121 05.9W	2/24	1230	1251	396	216	131	131
"	83	70	33 14.7N 121 26.5W	2/24	0805	0828	424	215	215	215
NH	83	80	32 55.2N 122 08.0W	2/20	0230	0253	395	216	58	58
"	83	90	32 37.1N 122 48.3W	2/19	2055	2117	422	201	24	24
"	83	100	32 20.9N 123 25.7W	2/18	2002	2024	438	194	59	37
"	"	"	32 21.5N 123 25.7W	2/18	2027	2043	444	181	50	50
"	"	"	32 22.2N 123 25.6W	2/18	2052	2114	415	168	39	39
"	"	"	32 15.2N 123 29.5W	2/19	0205	0226	418	141	43	43
"	"	"	32 15.7N 123 29.6W	2/19	0233	0254	395	141	41	41
"	"	"	32 16.2N 123 29.6W	2/19	0300	0321	409	145	39	39
"	"	"	32 14.8N 123 28.6W	2/19	0705	0727	424	193	45	45
"	"	"	32 15.5N 123 29.0W	2/19	0731	0754	427	208	61	61
"	"	"	32 16.2N 123 29.0W	2/19	0800	0821	391	176	51	51
"	"	"	32 15.3N 123 28.7W	2/19	1405	1426	443	136	77	77
"	"	"	32 16.2N 123 28.7W	2/19	1435	1457	439	150	50	50
"	"	"	32 16.8N 123 28.7W	2/19	1505	1526	425	150	52	52
JD	87	33	33 53.4N 118 29.4W	2/27	0845	0850	83	43	204	204
"	87	35	33 49.4N 118 37.7W	2/27	1155	1216	377	212	64	64
"	87	40	33 39.4N 118 58.5W	3/1	0120	0142	400	212	63	63

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

CalCOFI Cruise 8402-3

Ship	Line	Sta.	Position	Date Mo/Day	Time (GMT) Start	Time (GMT) End	Water Volume Strained (m^3)	Max. Tow Depth (m)	Volume per 1000 m^3 Strained Total (cm^3)	Volume per 1000 m^3 Strained Small (cm^3)
"	87	45	33 29.4N 119 19.1W	2/29	1920	1942	398	210	25	25
"	87	50	33 19.4N 119 39.8W	2/29	1335	1342	130	56	146	146
"	87	55	33 09.4N 120 00.3W	2/29	0835	0857	382	217	154	154
"	87	60	32 59.4N 120 21.0W	2/29	0120	0142	386	213	507	295
"	87	65	32 49.3N 120 41.5W	2/25	0540	0602	444	216	140	140
"	87	70	32 39.4N 121 02.0W	2/24	2330	2352	416	215	17	17
NH	87	80	32 19.8N 121 43.0W	2/20	0752	0813	392	215	406	339
"	87	90	32 00.4N 122 24.5W	2/20	1325	1347	468	194	32	32
"	87	100	31 40.5N 123 02.4W	2/20	1850	1913	439	208	18	18
JD	90	28	33 29.0N 117 46.2W	3/3	0340	0346	118	56	161	161
"	90	30	33 25.0N 117 54.3W	3/3	0710	0732	409	207	103	103
"	90	37	33 11.2N 118 23.4W	3/3	1304	1326	390	212	31	31
"	90	45	32 55.1N 118 56.1W	3/3	2022	2044	390	210	36	36
"	"	"	" "	3/3	2053	2114	398	201	45	45
"	"	"	" "	3/3	2125	2146	376	236	37	37
"	"	"	" "	3/4	0205	0226	378	208	45	45
"	"	"	" "	3/4	0240	0301	380	189	42	42
"	"	"	" "	3/4	0310	0332	386	201	54	54
"	"	"	" "	3/4	0725	0747	396	201	51	51
"	"	"	" "	3/4	0750	0811	387	190	57	57
"	"	"	" "	3/4	0825	0846	377	201	58	58
"	"	"	" "	3/4	1404	1426	401	191	32	32
"	"	"	" "	3/4	1432	1453	382	193	68	68
"	"	"	" "	3/4	1500	1521	379	198	45	45
"	90	53	32 39.1N 119 28.9W	3/4	2053	2115	396	214	63	63
"	90	60	32 25.1N 119 57.6W	3/5	0230	0252	389	210	275	185
NH	90	70	32 05.8N 120 38.8W	2/21	2005	2027	434	215	124	124
"	"	"	32 06.2N 120 39.9W	2/21	2030	2052	411	226	146	146
"	"	"	32 06.5N 120 39.9W	2/21	2055	2117	436	208	138	138
"	"	"	32 04.4N 120 39.9W	2/22	0210	0232	555	112	342	309
"	"	"	32 04.4N 120 40.0W	2/22	0235	0258	487	163	345	279
"	"	"	32 04.3N 120 41.4W	2/22	0303	0329	600	150	330	260
"	"	"	32 03.6N 120 38.1W	2/22	0705	0727	501	172	138	138
"	"	"	32 03.6N 120 39.1W	2/22	0732	0755	462	185	229	152
"	"	"	32 03.7N 120 39.4W	2/22	0800	0822	421	205	112	112
"	"	"	32 04.5N 120 40.2W	2/22	1405	1429	491	172	65	65
"	"	"	32 04.7N 120 41.2W	2/22	1440	1503	509	185	47	47
"	"	"	32 04.7N 120 41.9W	2/22	1515	1539	531	150	72	72
"	90	80	31 44.9N 121 19.5W	2/21	1220	1243	415	207	80	80
"	90	90	31 25.1N 121 59.4W	2/21	0656	0719	428	205	30	30
"	90	100	31 06.3N 122 39.8W	2/21	0050	0112	427	212	19	19
JD	93	26.7	32 57.4N 117 18.2W	3/7	1800	1805	99	48	222	222
"	93	28	32 54.8N 117 23.7W	3/8	1020	1042	359	212	70	70
"	93	29	32 52.8N 117 27.8W	3/8	1208	1231	380	206	66	66
"	93	30	32 50.8N 117 32.0W	3/7	2011	2033	376	211	112	112
"	"	"	" "	3/7	2042	2103	366	198	115	115
"	"	"	" "	3/7	2115	2136	387	185	75	75
"	"	"	" "	3/8	0150	0212	390	198	103	103
"	"	"	" "	3/8	0220	0241	380	193	105	105
"	"	"	" "	3/8	0250	0311	383	189	91	91
"	"	"	" "	3/8	0710	0731	371	195	70	70
"	"	"	" "	3/8	0740	0801	372	198	91	91

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

CalCOFI Cruise 8402-3

Ship	Line	Sta.	Position	Date Mo/Day	Time (GMT) Start	Time (GMT) End	Water Volume Strained (m^3)	Max. Tow Depth (m)	Volume per 1000 m^3 Strained Total (cm^3)	Volume per 1000 m^3 Strained Small (cm^3)
"	"	"	" "	3/8	0810	0831	373	197	97	97
"	"	"	" "	3/8	1430	1451	378	189	66	66
"	"	"	" "	3/8	1500	1521	390	191	51	51
"	93	35	32 40.7N 117 52.4W	3/8	2115	2136	362	211	22	22
"	93	40	32 30.8N 118 12.8W	3/9	0140	0202	382	212	26	26
"	93	45	32 20.8N 118 33.3W	3/9	0820	0842	359	211	61	61
"	93	50	32 10.8N 118 33.6W	3/9	1230	1251	372	206	290	290
"	93	55	32 00.8N 119 14.0W	3/9	1617	1639	394	213	117	117
"	93	60	31 50.7N 119 34.3W	3/9	2105	2127	397	211	154	154
"	93	70	31 30.8N 120 14.9W	3/10	0230	0252	409	209	379	379
NH	93	80	31 11.3N 120 56.6W	2/26	1435	1500	279	220	294	294
"	93	90	30 49.5N 121 35.1W	2/26	2035	2057	421	218	21	21
"	93	100	30 30.0N 122 14.9W	2/27	0155	0220	507	194	18	18
JD	97	29	32 17.4N 117 04.8W	3/13	2255	2301	99	49	171	171
"	97	30	32 15.4N 117 08.8W	3/14	0015	0022	120	55	535	535
"	97	32	32 11.4N 117 17.0W	3/14	0223	0245	399	212	40	40
"	97	35	32 05.5N 117 29.2W	3/14	0705	0727	411	208	44	44
"	97	40	31 55.4N 117 49.5W	3/14	1125	1147	388	211	95	95
"	97	45	31 45.4N 118 09.8W	3/14	1555	1617	384	209	21	21
"	97	50	31 36.5N 118 29.0W	3/14	2005	2027	402	210	20	20
"	97	55	31 25.4N 118 50.3W	3/15	0055	0117	422	214	26	26
"	97	60	31 15.5N 119 10.6W	3/15	0700	0722	430	208	58	58
"	97	65	31 05.4N 119 30.6W	3/15	1140	1202	390	213	64	64
"	97	70	30 55.7N 119 50.8W	3/15	1605	1627	417	211	125	125
NH	97	80	30 35.7N 120 29.0W	2/27	2030	2056	484	211	29	29
"	97	90	30 15.4N 121 08.4W	2/27	1430	1456	518	185	27	27
"	97	100	29 56.5N 121 49.5W	2/27	0755	0817	435	209	44	44
JD	100	29.2	31 42.5N 116 43.4W	3/17	0720	0726	120	57	308	308
"	100	30	31 41.2N 116 46.6W	3/17	0525	0547	406	212	91	91
"	100	35	31 31.2N 117 06.9W	3/16	2330	2352	389	212	59	59
"	100	40	31 21.4N 117 27.3W	3/16	1824	1846	385	212	23	23
"	100	45	31 11.2N 117 47.2W	3/16	1348	1410	424	208	31	31
"	100	50	31 01.0N 118 07.3W	3/16	0850	0912	417	211	29	29
"	100	55	31 51.1N 118 27.5W	3/16	0405	0427	416	212	43	43
"	100	60	30 41.2N 118 47.5W	3/15	2340	0002	407	213	49	49
NH	100	65	30 30.7N 119 06.4W	2/28	0428	0452	437	212	151	151
"	100	70	30 20.1N 119 26.1W	2/28	0825	0847	405	208	44	44
"	100	80	30 02.5N 120 07.3W	2/28	1410	1432	466	193	13	13
"	100	90	29 40.6N 120 48.1W	2/28	2018	2041	441	204	16	16
"	100	100	29 21.9N 121 26.2W	2/29	0145	0210	515	192	14	14
JD	103	29	31 08.9N 116 20.5W	3/17	1218	1221	55	21	182	182
"	103	30	31 06.9N 116 24.5W	3/17	1400	1407	126	56	494	494
"	103	35	30 56.8N 116 44.7W	3/17	1832	1854	405	207	25	25
"	103	40	30 46.9N 117 04.7W	3/17	2320	2342	409	215	24	24
"	103	45	30 36.9N 117 24.7W	3/18	0410	0432	395	211	25	25
"	103	50	30 26.9N 117 44.7W	3/18	0850	0912	454	209	22	22
"	103	55	30 16.9N 118 04.7W	3/18	1325	1347	437	206	133	133
"	103	60	30 06.3N 118 24.9W	3/18	1800	1822	419	213	43	43
NH	103	65	29 57.0N 118 45.2W	3/1	0625	0649	395	206	63	63
"	103	70	29 46.6N 119 05.5W	3/1	0213	0239	460	206	30	30
"	103	80	29 27.7N 119 49.0W	2/29	2020	2042	447	213	9	9
"	103	90	29 07.2N 120 23.1W	2/29	1400	1425	474	211	13	13

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505 mm

CalCOFI Cruise 8402-3

Ship	Line	Sta.	Position	Date Mo/Day	Time (GMT) Start	Time (GMT) End	Water Volume Strained (m^3)	Max. Tow Depth (m)	Volume per 1000 m^3 Strained Total (cm^3)	Volume per 1000 m^3 Strained Small (cm^3)
"	103	100	28 47.3N 121 04.5W	2/29	0750	0812	397	220	25	25
JD	107	31	30 29.5N 116 05.8W	3/22	2323	2325	32	13	252	252
"	107	32	30 27.5N 116 09.8W	3/22	2135	2157	436	207	117	117
"	107	35	30 20.5N 116 21.1W	3/22	1810	1832	391	206	41	41
"	107	40	30 11.5N 116 41.6W	3/22	1345	1407	411	211	32	32
"	107	45	30 01.2N 117 01.5W	3/22	0857	0921	483	211	37	37
"	107	50	29 50.8N 117 19.4W	3/22	0510	0532	386	213	57	57
"	107	55	29 41.5N 117 41.4W	3/22	0100	0122	389	216	33	33
"	107	60	29 31.5N 118 01.3W	3/21	2105	2126	392	213	20	20
NH	107	65	29 22.4N 118 21.3W	3/1	1210	1236	473	201	30	30
"	107	70	29 11.5N 118 41.8W	3/1	1628	1653	472	208	13	13
"	107	80	28 51.8N 119 21.1W	3/1	2232	2255	451	212	13	13
"	107	90	28 33.9N 119 59.4W	3/2	0355	0420	493	203	24	24
"	107	100	28 11.3N 120 35.4W	3/2	1055	1117	410	206	20	20
JD	110	32.4	29 52.2N 115 49.2W	3/20	1717	1723	100	49	503	503
"	110	35	29 47.1N 115 59.7W	3/20	2006	2028	405	211	62	62
"	110	40	29 37.2N 116 19.7W	3/21	0035	0057	403	210	37	37
"	110	45	29 27.2N 116 39.5W	3/21	0415	0437	391	212	41	41
"	110	50	29 17.4N 116 59.3W	3/21	0755	0817	408	211	42	42
"	110	55	29 07.2N 117 19.0W	3/21	1130	1152	430	215	47	47
"	110	60	28 57.2N 117 38.7W	3/21	1515	1537	416	210	17	17
NH	110	65	28 47.8N 117 58.2W	3/3	1735	1760	446	214	9	9
"	110	70	28 37.0N 118 19.7W	3/3	1240	1305	504	206	14	14
"	110	80	28 16.5N 118 59.6W	3/3	0600	0625	491	206	33	33
"	110	90	27 56.8N 119 41.3W	3/2	2345	0009	479	193	8	8
"	110	100	27 38.0N 120 14.8W	3/2	1645	1711	463	215	11	11

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