

PHYSICAL CHEMICAL AND BIOLOGICAL DATA REPORT

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

# data report

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

CalCOFI Cruise 8105  
18 May - 12 June 1981

CalCOFI Cruise 8107  
26 June - 7 August 1981

SIO Reference 85-12  
31 July 1985

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Approved for distribution:

  
W. A. Nierenberg, Director



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## INTRODUCTION

The data in this report were collected during Cruises 8105\*, and 8107 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. On Cruise 8105, four stations were occupied for 48 hours each to make repeated casts and net tows in order to assess within-station hydrographic, chemical and biological variability. Primary productivity casts were taken daily near local noontime on Cruise 8105.

The data were collected and processed by personnel of the Marine Life Research Group (MLRG), the Southwest Fisheries Center, National Marine Fisheries Service (NMFS), and the Physical and Chemical Oceanographic Data Facility (PACODF).

## STANDARD PROCEDURES

### *In-situ Conductivity/Temperature/Depth Recorder (CTD) Data*

CTD lowerings were made at most stations on Cruise 8105 and on cardinal CalCOFI line stations on Cruise 8107. Temperature and salinity corrections were applied to the CTD data, based upon comparisons with shallow and deep rosette cast data.

### *Rosette or Hydrographic Cast Data*

A rosette frame holding 12 1.7-liter Niskin bottles was lowered with the CTD probe, the bottles were closed during the up cast by the CTD operator. On Cruise 8105, samples were taken from each rosette bottle for oxygen and nutrients. Chlorophyll-*a* and phaeopigments were usually determined from the top 10 depths. Two or three salinity samples were taken from each cast for calibration of the CTD. On stations where the CTD-rosette system failed, 12-bottle hydrographic casts were done. The maximum sampling depth was 500 meters, bottom depth permitting.

Two or three racks of paired protected thermometers were used on each rosette cast for calibration of the CTD. The temperature data is reported to the nearest hundredths of a degree Celsius. Wire casts had paired protected thermometers on each bottle and unprotected thermometers on bottles used below a depth of 100 meters for determining the depth of sampling.

Salinity samples were analyzed at sea on inductive-type salinometers standardized with Wormley Standard Seawater.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971). Percent oxygen saturation was calculated from the equations of Weiss (1970).

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

Chlorophyll was measured with a fluorometric technique (Yentsch and Menzel, 1963; Holm-Hansen *et al.*, 1965). Samples (65 or 140 ml) were drawn from the Niskin 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 12 and 14 hours. 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.

At selected stations on Cruise 8105, the retention efficiency of the standard GF/C filter was checked by drawing replicate sea water samples from the Niskin bottles and filtering one of each pair through a GF/C filter (manufacturer's specified retention size: 1.2  $\mu$ ), the other through a GF/F filter (retention size: 0.7  $\mu$ ). Chlorophyll and phaeophytin results from both filter sizes have been tabulated in a separate table. Potential biases of the chlorophyll extraction method and of the effect of filter size

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



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  $^{14}\text{C}$  uptake using a simulated *in situ* technique. Light penetration was estimated from the Secchi depth (assuming that the 1% light level is three times the Secchi depth). On 8105 *New Horizon*, seven depths (corresponding to predetermined levels of light penetration) were sampled on a single cast at each productivity station. On 8105 *Jordan*, six depths were sampled on each of two replicate casts at each productivity station. The water samples were collected with 5-liter Niskin bottles on both cruises. Triplicate subsamples (two light and one dark control) were drawn from each water sample into 250 ml glass incubation bottles which were inoculated with  $10\ \mu\text{ci}$  of  $^{14}\text{C}$  as  $\text{NaHCO}_3$ . These were 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. The sample was then allowed to sit without a cap, at room temperature for 12 hours (after Lean and Burnison, 1979). Following this, 10 ml of scintillation fluor were added to each sample and the samples were returned to 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  $\sim 210$  m to the surface. The tow time for a standard tow was 21.5 minutes. Volumes filtered were determined from flowmeter readings and the mouth area of the net. Only one sample of each pair was retained and preserved. The biomass, as wet displacement volume, after removal of large ( $> 5$  ml) organisms, was determined in the laboratory ashore. These procedures are summarized in greater detail in Kramer *et al.* (1972).

### TABULATED DATA

The time reported is Greenwich Mean Time (GMT). For CTD lowerings it is the "start down" time; for wire casts it is the time of messenger release; and for rosette casts it is the "start up" time.

Bottom depths, determined acoustically, have been corrected using Matthews (1939) tables and are reported in meters. Weather conditions have been coded using WMO code 4051.

Data in this report were obtained by CTD lowerings, rosette samples, or wire casts and appear in seven forms:

1. Observed and interpolated standard depth data from rosette or hydrographic casts have been interspersed and are presented together sequentially by depth. Interpolated or extrapolated standard level data are noted by the footnote "ISL" printed after the depth. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (EOS80, UNESCO, 1981). Some of the differences between EOS80 and the older equations-of-state are discussed in the introduction to SIO Ref. 84-18. Computed values of potential temperature, sigma-theta, specific volume anomaly (SVA), dynamic height or geopotential anomaly, and pressure are included with both observed and interpolated standard depth levels. For rosette casts, depth, temperature and salinity data were usually obtained from the CTD sensors. Data obtained from hydrographic measurements are indicated with the footnote letter "H".

2. Data from CTD lowerings are presented with two stations printed side by side. Temperature and salinity are tabulated at closer "standard" intervals than the interpolated standard depth bottle data.

The computed values are the same as for the bottle data.

3. Ten-meter temperature and salinity data from net tow station 10-meter bottles and CTD 10-meter check bottles appear as separate sections.

4. The tabulated data from primary productivity casts 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.

5. Special wire casts for chlorophyll, phaeopigments and nutrients appear after the primary productivity cast tabulations.

6. A table of chlorophyll filter comparisons appears after the special chlorophyll cast tabulations. Chlorophyll-*a* and phaeopigment data from the 1.2  $\mu$  GF/C and from the 0.7  $\mu$  GF/F filters are shown tabulated by depth. The GF/C data are from the hydrographic or special chlorophyll casts and are repeated for comparison.

7. Macrozooplankton biomass volumes are tabulated as total biomass volume ( $\text{cm}^3/1000 \text{ m}^3$  strained) and as the total volume minus the volume of larger organisms under the heading "Small".

#### FOOTNOTES

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

*H*: Ship-board hydrographic measurement listed in place of *in-situ* CTD values.

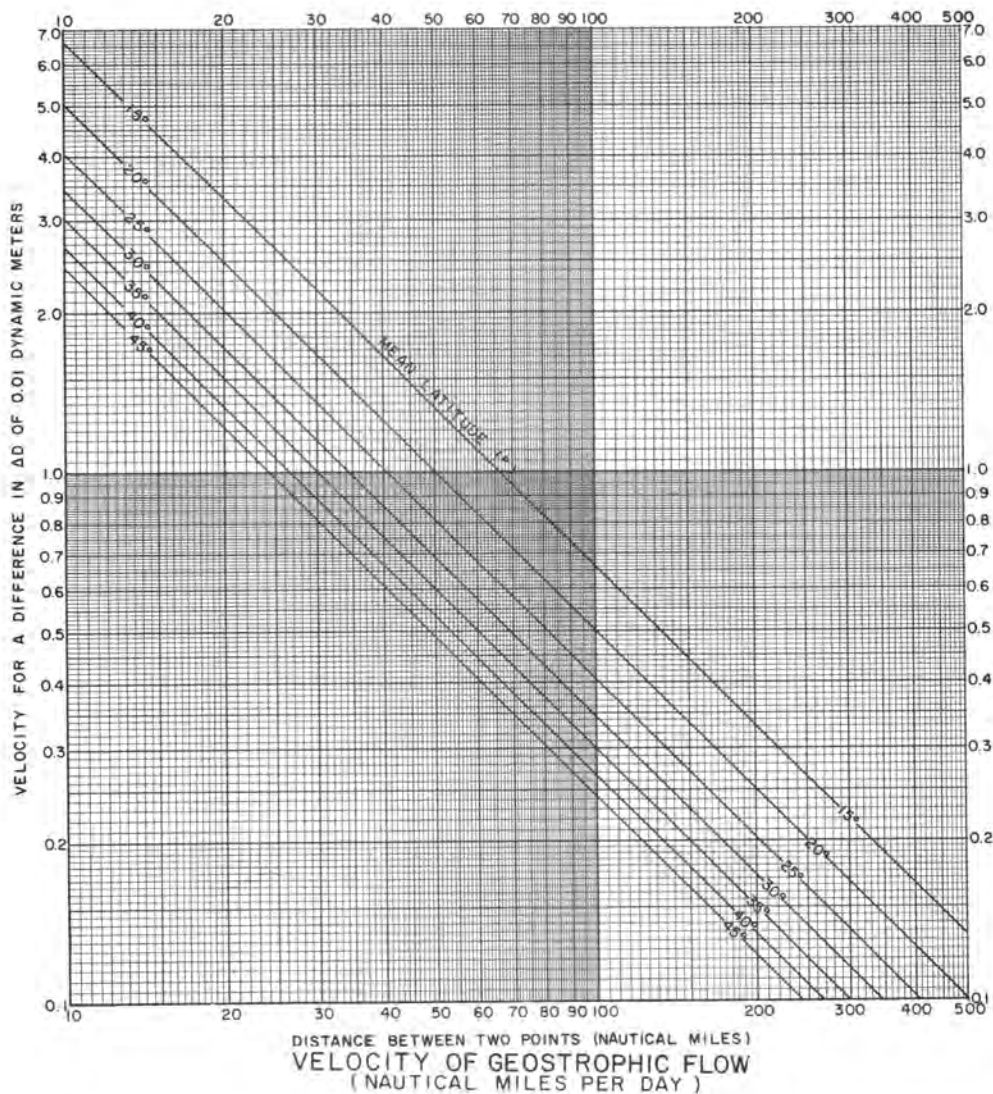
*ISL*: After depth values indicates interpolated or extrapolated standard level.

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



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cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> 0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	
	<i>NM/DAY</i> 0.47	0.93	1.40	1.86	2.33	2.80	3.26	3.73	4.20	
10	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37
	4.66	5.13	5.59	6.06	6.53	6.99	7.46	7.93	8.39	8.86
20	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.52	0.54	0.56
	9.32	9.79	10.26	10.72	11.19	11.66	12.12	12.59	13.05	13.52
30	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76
	13.99	14.45	14.92	15.38	15.85	16.32	16.78	17.25	17.72	18.18
40	0.78	0.80	0.82	0.84	0.85	0.87	0.89	0.91	0.93	0.95
	18.65	19.11	19.58	20.05	20.51	20.98	21.45	21.91	22.38	22.84
50	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
	23.31	23.78	24.24	24.71	25.17	25.64	26.11	26.57	27.04	27.51
60	1.17	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34
	27.98	28.44	28.90	29.37	29.84	30.30	30.77	31.24	31.70	32.17
70	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.53
	32.63	33.10	33.57	34.03	34.50	34.96	35.43	35.90	36.36	36.83
80	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.69	1.71	1.73
	37.30	37.76	38.23	38.69	39.16	39.63	40.09	40.56	41.03	41.49
90	1.75	1.77	1.79	1.81	1.83	1.85	1.86	1.88	1.90	1.92
	41.96	42.42	42.89	43.36	43.82	44.29	44.76	45.22	45.69	46.15
100	1.94	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12
	46.62	47.09	47.55	48.02	48.48	48.95	49.42	49.88	50.35	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 8105

1. CalCOFI Cruise 8105, station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500 m).
3. Horizontal distribution of dynamic height anomaly (200 over 500 m).
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.

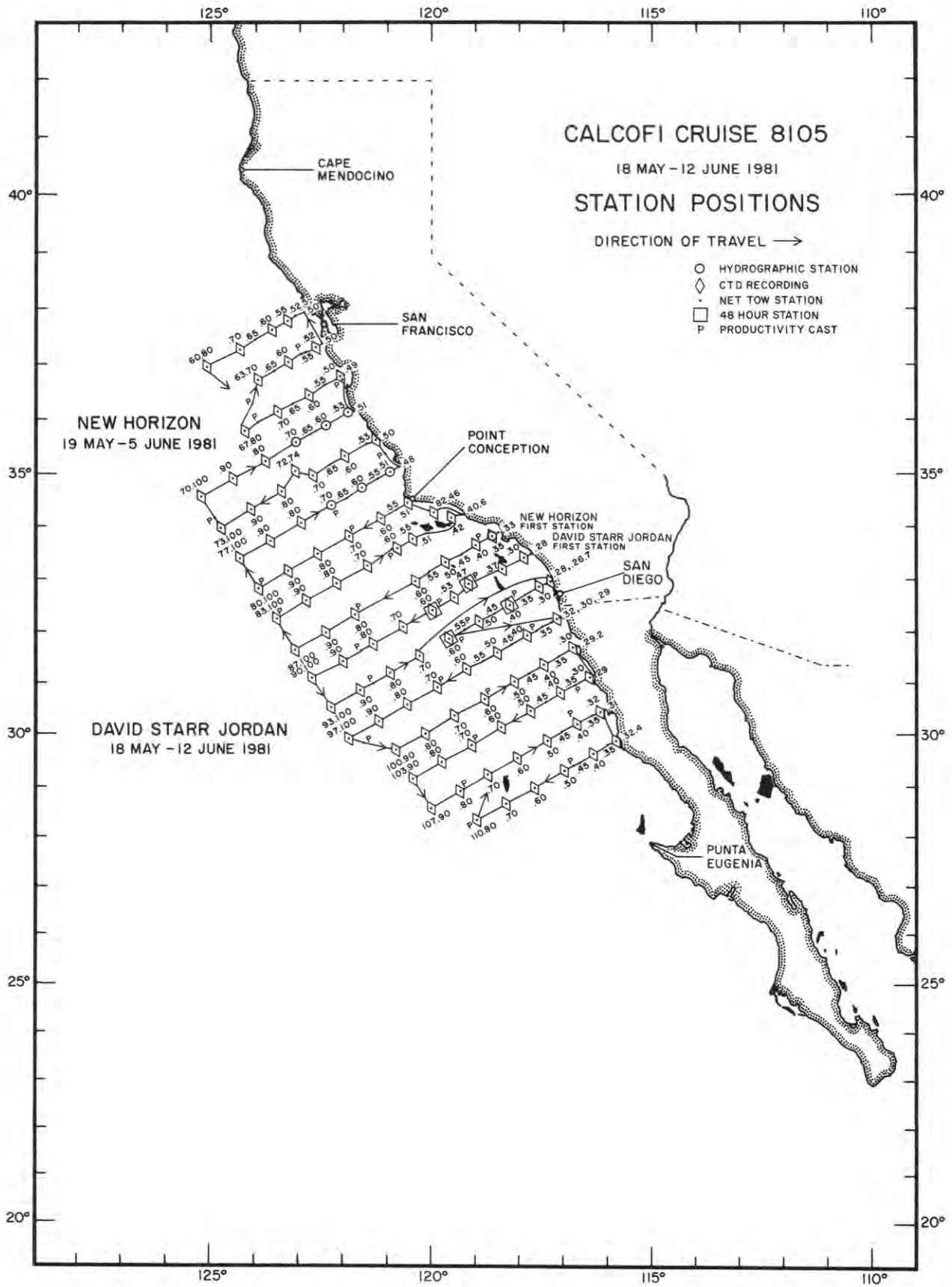


FIGURE 1



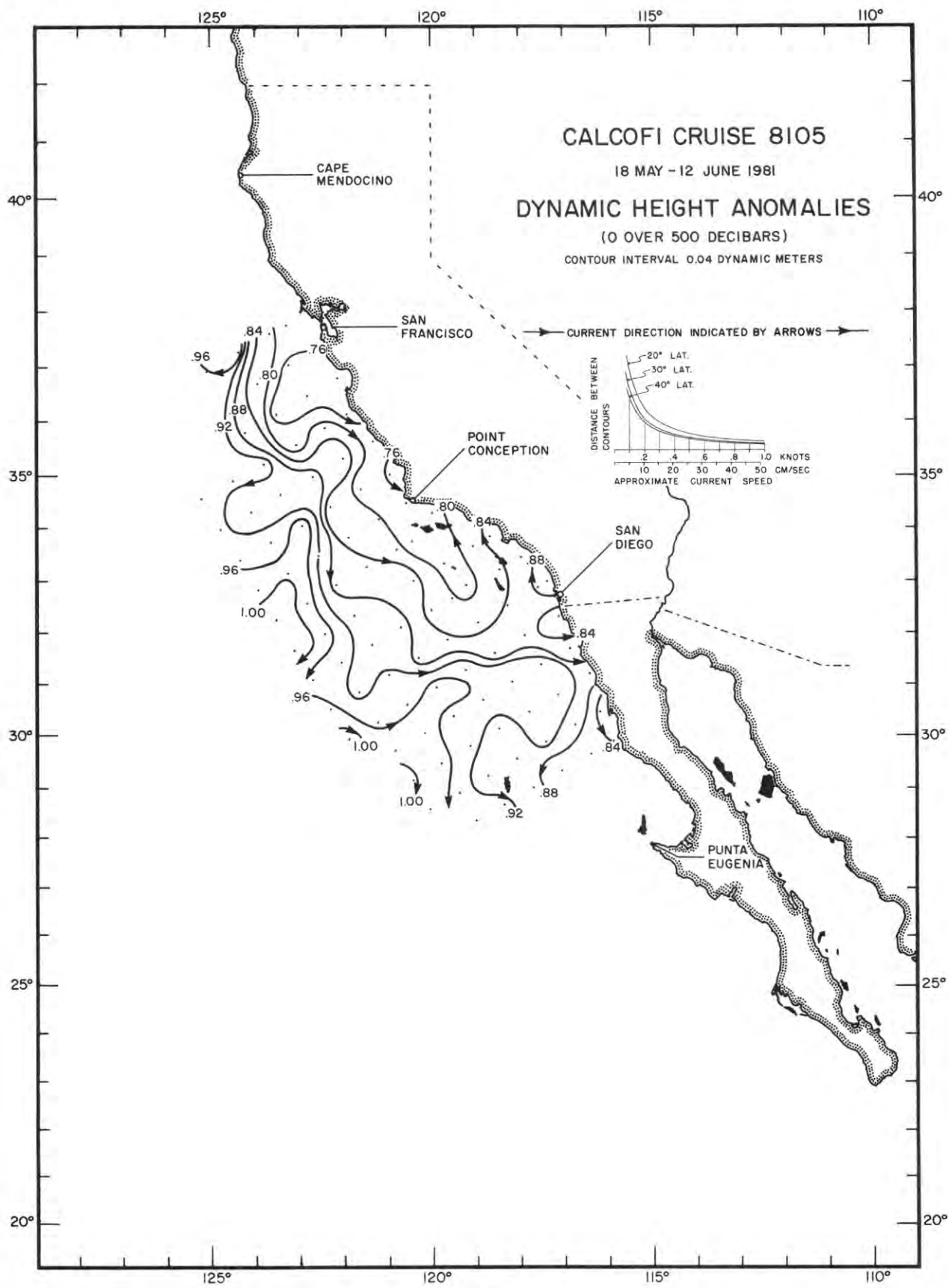


FIGURE 2

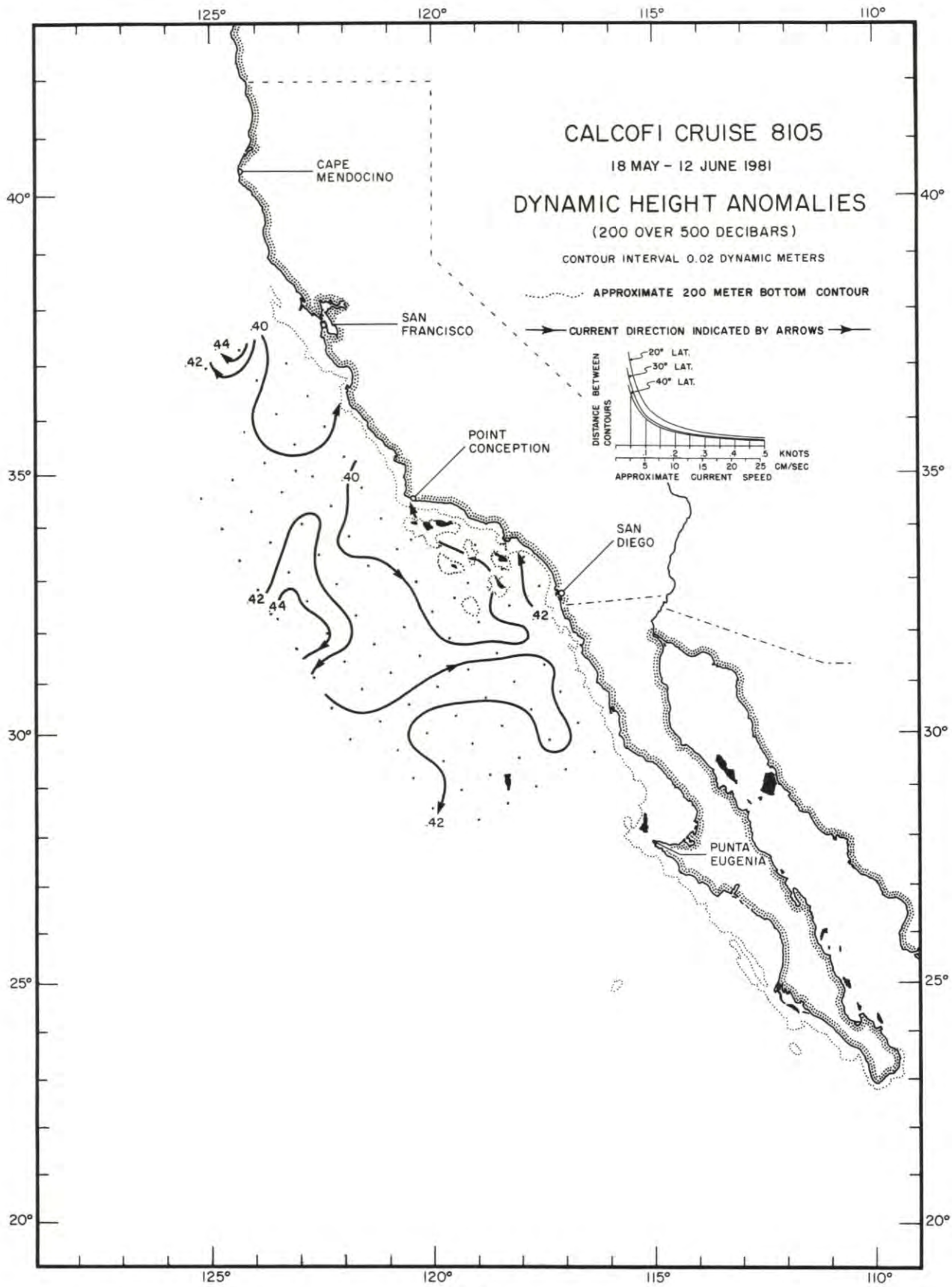


FIGURE 3

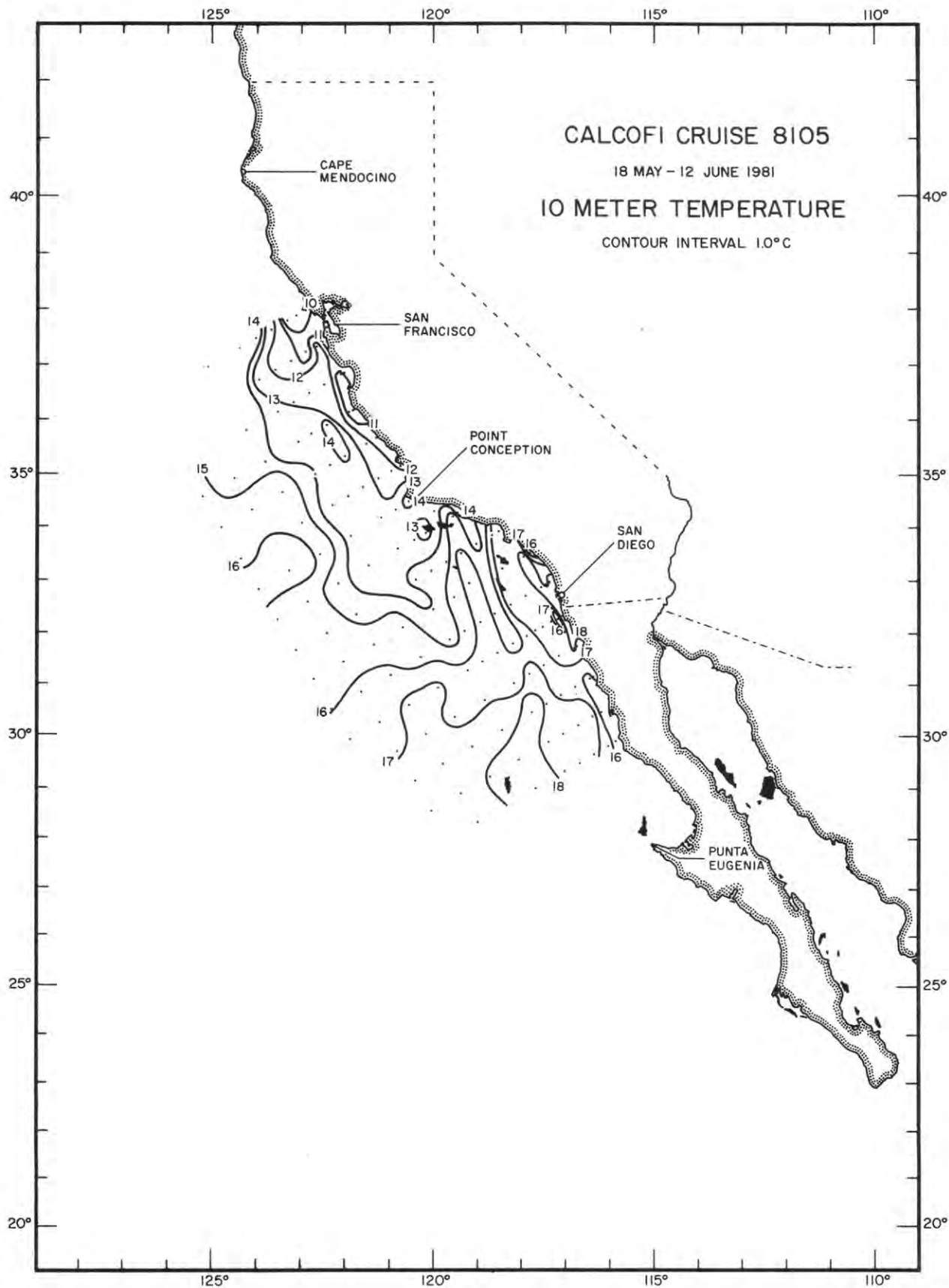


FIGURE 4



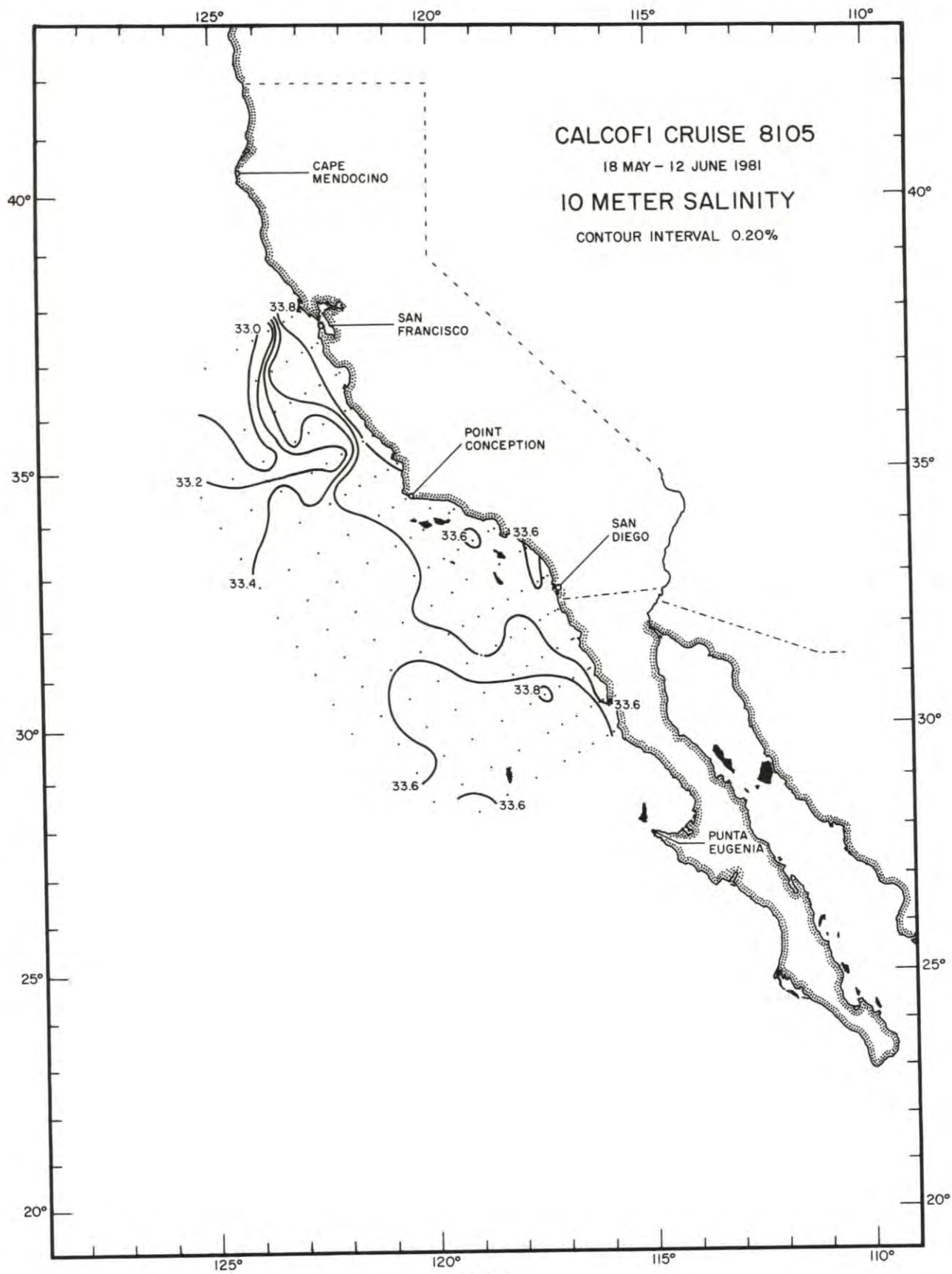


FIGURE 5

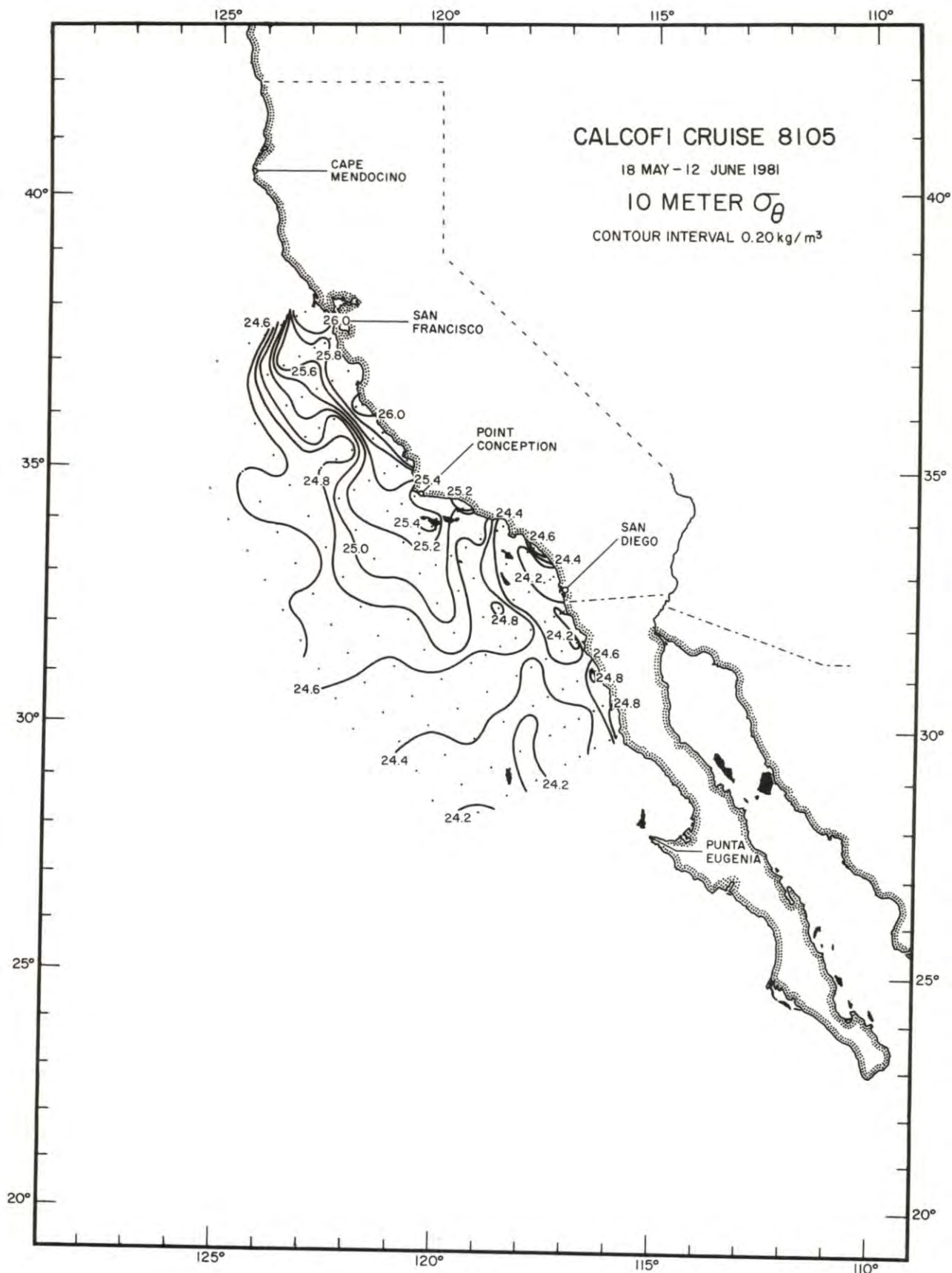


FIGURE 6

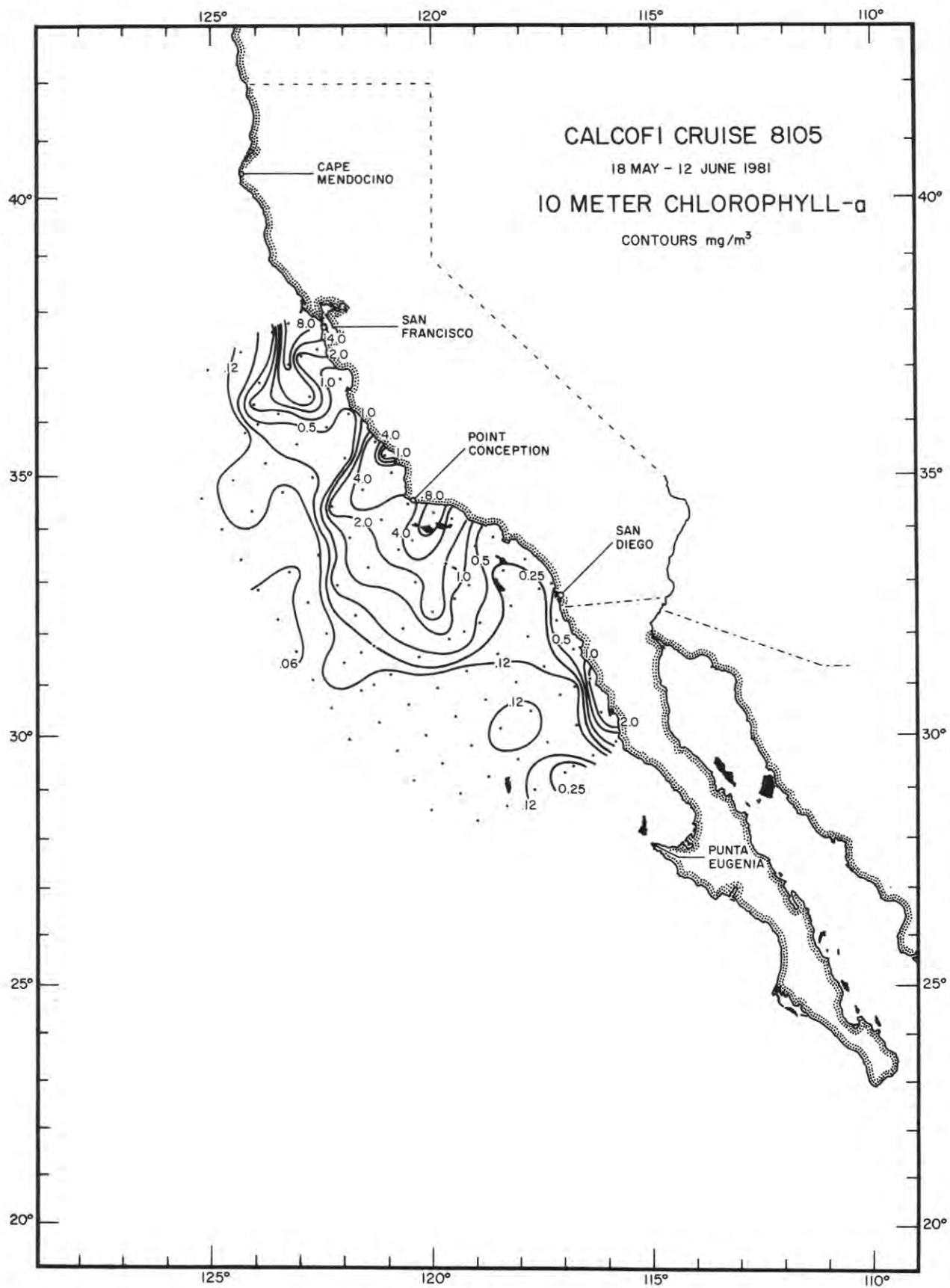


FIGURE 7



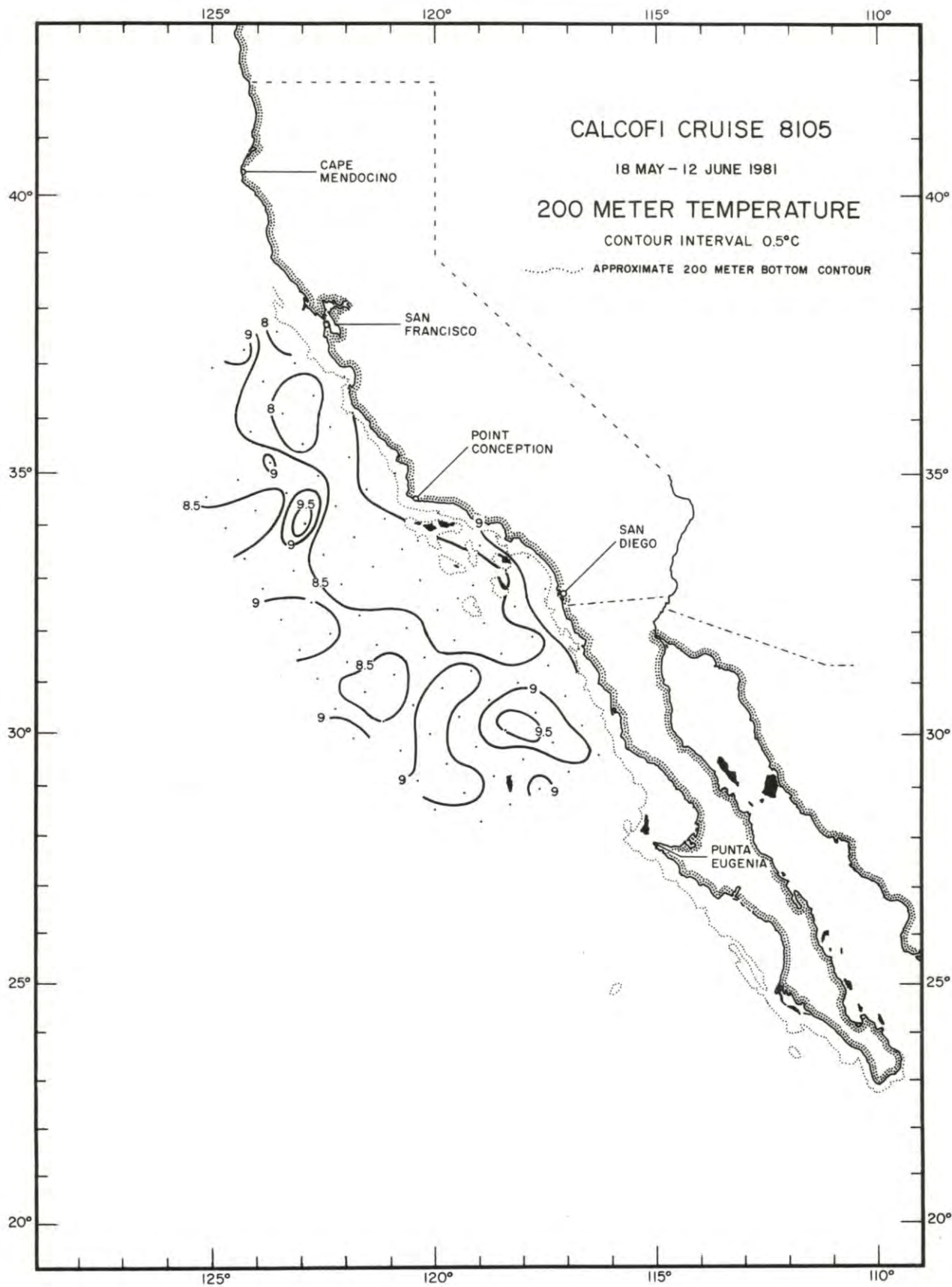


FIGURE 8

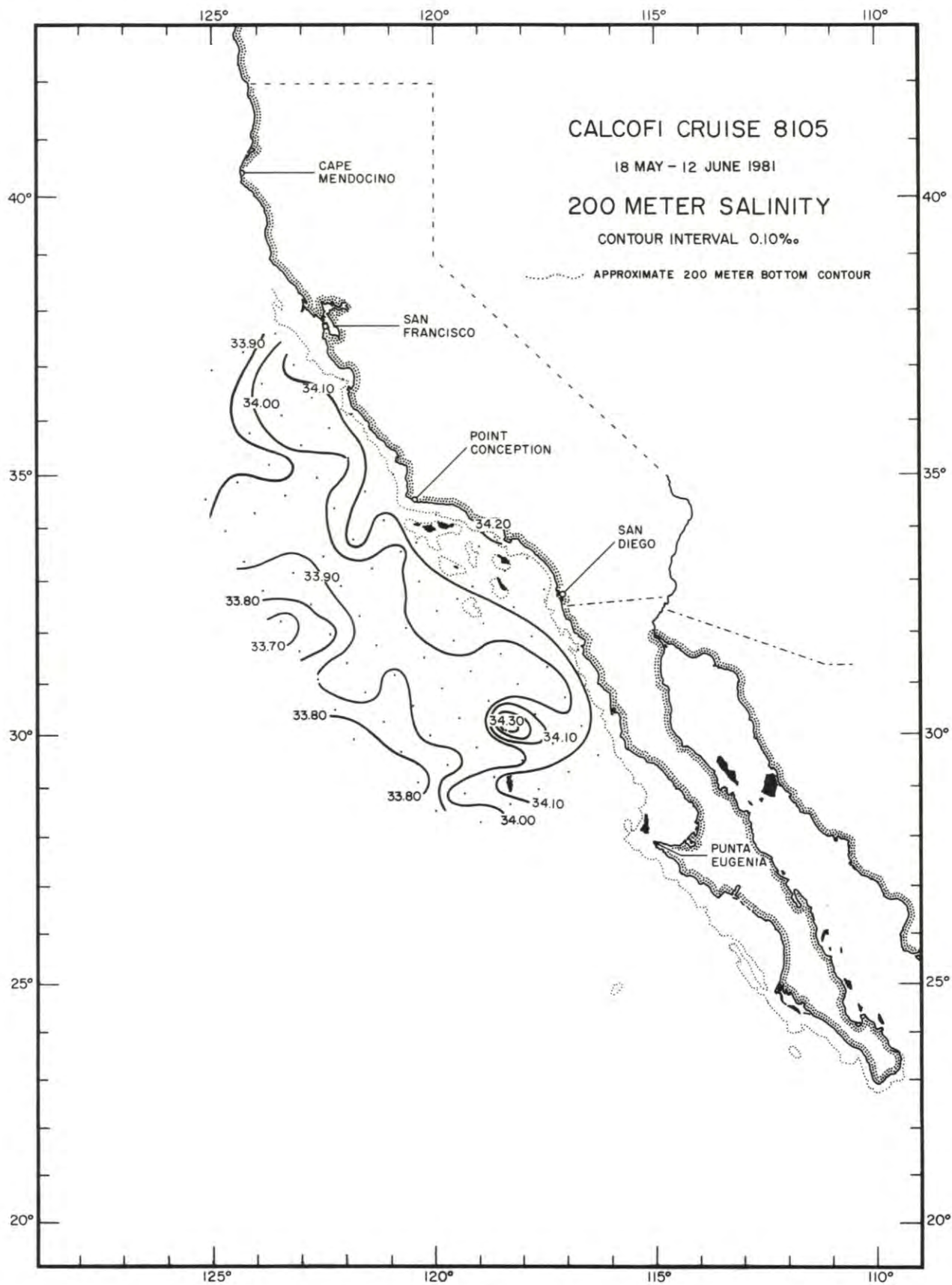


FIGURE 9

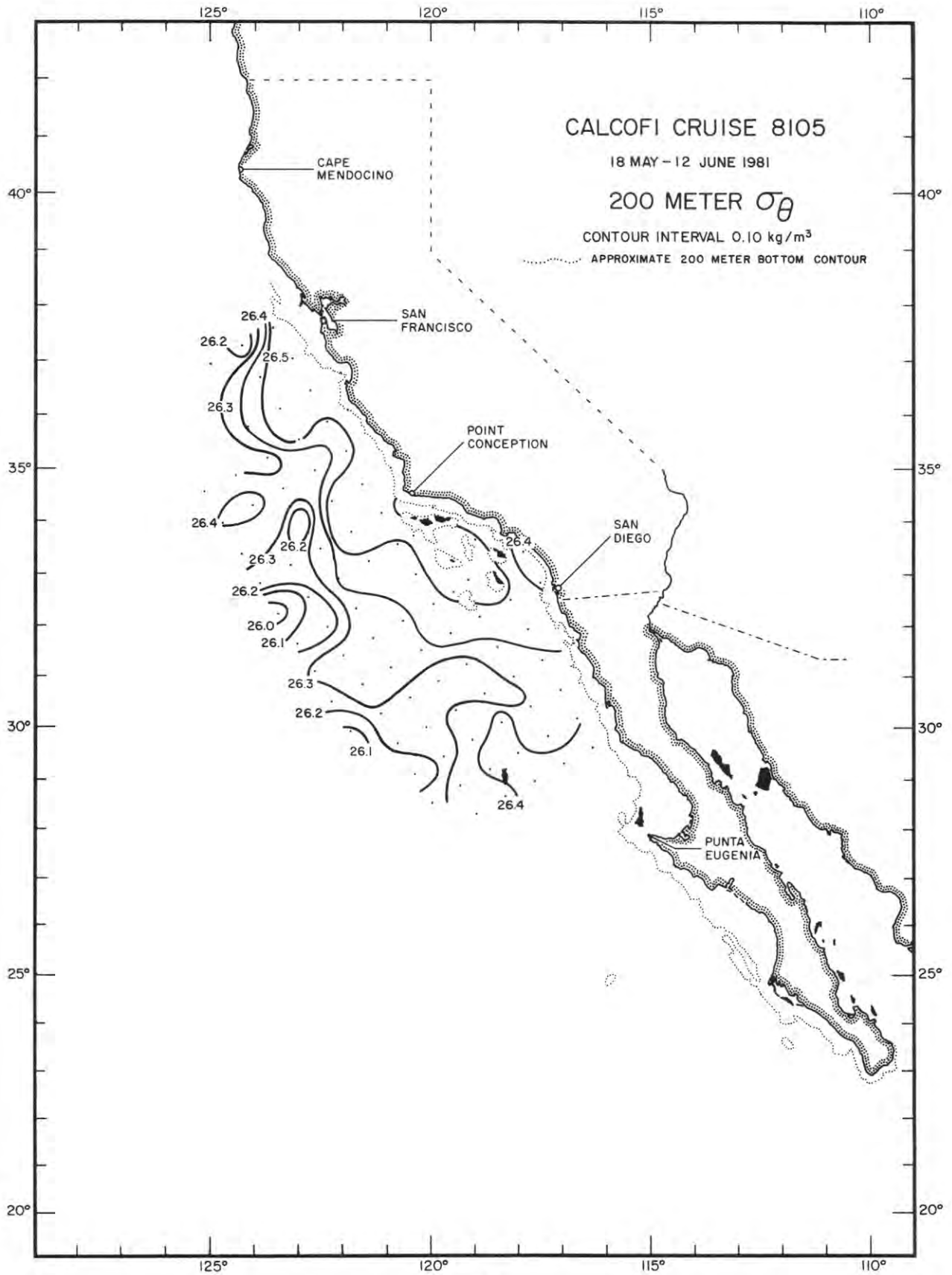


FIGURE 10



## PERSONNEL

Cruise 8105

### SHIPS' CAPTAINS

Roll, Milton, RV *David Starr Jordan*  
Davis, Laurence E., RV *New Horizon*

### PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

#### RV *David Starr Jordan*

Hayward, Thomas L. (Chief Scientist)	Asst. Research Oceanographer, SIO
Metoyer, Jack D. (Cruise Leader)	Biological Technician, NMFS
Anderson, George C.	Staff Research Associate, SIO
Bliss, Kenneth A.	Oceanographer, NMFS
Costello, James P.	Staff Research Associate, SIO
Graham, Jerry B.	Electronics Technician, NMFS
Guan, Fumin	Visiting Scholar, SIO
Kimbrell, Carol A.	Fishery Biologist, NMFS
Newton, Jerry	Staff Research Associate, SIO
Peñaloza M., Arturo	Chemist, INP
Venrick, Elizabeth L.	Assoc. Research Oceanographer, SIO

#### RV *New Horizon*

Muus, David A. (in charge)	Staff Research Associate, SIO
Abramenkoff, Dimitry N.	Biological Technician, NMFS
Butler, John L.	Fishery Biologist, NMFS
Flament, Pierre	Graduate Student, SIO
Lyons, Douglas C.	Staff Volunteer, SIO
Patla, Susan M.	Marine Technician, SIO
Sandknop, Elaine M.	Biological Technician, NMFS
Schmitt, James A.	Electronics Technician, SIO
Sowell, Karen	Marine Technician, SIO
Stallard, Martha	Staff Research Associate, SIO
Watson, Karen M.	Staff Volunteer, SIO

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 60 55					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
37 46.8 N	123 15.3 W	04/06/81	1334 GMT	187 M	330	32 KT	330 14 3	1	1015.3 MB	12.0 C	11.2 C	1/8	CI			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	7.86	9.86	33.860	26.086	191.6	0.000	5.44	85.2							0	
3	9.86	9.86	33.860H	26.086	191.6	0.006	5.44	85.2	11.4	1.51	16.8	0.29	9.81	1.00	3	
9	9.87	9.87	33.870	26.092	191.1	0.017	5.62	88.0	10.1	1.48	16.8	0.29	11.65	0.52	9	
10 ISL	9.87	9.87	33.871	26.092	191.1	0.019	5.62	88.0							10	
19	9.88	9.88	33.874	26.094	191.2	0.036	5.60	87.7	10.1	1.45	16.9	0.30	11.91	0.13	19	
20 ISL	9.88	9.88	33.873	26.093	191.2	0.038	5.60	87.7							20	
27	9.87	9.87	33.870	26.092	191.5	0.052	5.59	87.5	10.1	1.44	17.0	0.30	11.15	0.71	27	
30 ISL	9.87	9.87	33.871	26.093	191.4	0.057	5.61	87.8							30	
48	9.89	9.88	33.884	26.100	191.2	0.092	5.73	89.8	9.1	1.50	16.5	0.29	12.02	0.33	48	
50 ISL	9.87	9.87	33.880	26.101	191.2	0.096	5.65	88.5							50	
71	9.66	9.65	33.843	26.107	191.0	0.136	4.43	69.0	19.4	1.75	21.2	0.31	5.33	0.64	71	
75 ISL	9.49	9.49	33.848	26.139	188.0	0.143	4.13	64.1							75	
96	8.63	8.62	33.919	26.331	170.1	0.181	2.72	41.4	34.8	2.10	27.9	0.06	0.09	0.31	96	
100 ISL	8.61	8.60	33.942	26.353	168.1	0.188	2.58	39.3							100	
122	8.50	8.49	34.024H	26.434	160.8	0.224	2.15	32.7	39.4	2.25	29.5	0.12	0.09	0.44	122	
125 ISL	8.49	8.49	34.029	26.440	160.3	0.229	2.11	32.0							125	
148	8.38	8.36	34.064H	26.484	156.5	0.265	1.92	29.1	42.3	2.38	30.6	0.18	0.09	0.29	149	
150 ISL	8.36	8.34	34.067	26.490	156.0	0.268									151	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 60 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
37 36.7 N	123 36.6 W	04/06/81	1724 GMT	3297 M	330	32 KT	330 10 3	0	1016.2 MB	14.3 C	13.2 C	0/8	CI			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	12.30	12.30	33.119	25.072	287.9	0.000	6.08	99.9							0	
1	12.30	12.30	33.119H	25.072	287.9	0.003	6.08	99.9	6.2	0.80	5.0	0.23	0.35	0.11	1	
8	12.23	12.23	33.127	25.092	286.2	0.023	5.84	95.8	7.6	0.92	7.0	0.24	0.37	0.14	8	
10 ISL	12.20	12.20	33.124	25.096	285.9	0.029	5.88	96.4							10	
17	12.08	12.08	33.154	25.141	281.7	0.049	6.05	99.0	6.3	0.86	6.2	0.28	0.40	0.12	17	
20 ISL	12.01	12.00	33.212	25.201	276.2	0.057	6.02	98.3							20	
26	11.86	11.86	33.346	25.332	263.8	0.073	5.91	96.3	6.7	0.95	8.1	0.23	0.47	0.11	26	
30 ISL	11.84	11.83	33.402	25.380	259.3	0.084	5.94	96.9							30	
47	11.61	11.60	33.540	25.530	245.6	0.127	6.09	98.9	6.7	1.10	10.9	0.21	0.33	0.13	47	
50 ISL	11.43	11.42	33.548	25.571	241.7	0.134	5.86	94.8							50	
74	9.88	9.87	33.594	25.876	213.1	0.188	3.98	62.2	20.8	1.61	19.7	0.18	0.06	0.05	74	
75 ISL	9.85	9.84	33.594	25.883	212.4	0.191	3.99	62.3							75	
99	9.38	9.37	33.661	26.011	200.7	0.240	4.17	64.5	24.7	1.71	20.9	0.32	0.06	0.11	99	
100 ISL	9.36	9.35	33.664	26.018	200.0	0.242	4.14	64.0							100	
123	8.95	8.94	33.784	26.176	185.4	0.287	3.39	52.0	28.8	1.84	24.3	0.13	0.02	0.11	123	
125 ISL	8.91	8.90	33.789	26.188	184.3	0.290	3.36	51.5							125	
149	8.49	8.47	33.869	26.314	172.7	0.333	3.21	48.7	33.8	1.96	26.6	0.06	0.02	0.10	150	
150 ISL	8.48	8.46	33.869	26.319	172.3	0.335	3.20	48.6							151	
200 ISL	7.87	7.86	33.989	26.503	155.6	0.417	2.85	42.6							201	
220	7.69	7.67	34.024	26.556	150.8	0.448	2.68	40.0	42.9	2.16	30.0	0.04	0.02	0.07	221	
250 ISL	7.42	7.41	34.056	26.622	144.9	0.493	2.31	34.2							252	
300 ISL	6.99	6.98	34.091	26.710	137.2	0.564	1.70	25.0							302	
329	6.75	6.72	34.101H	26.749	133.7	0.603	1.35	19.7	59.4	2.62	36.0	0.02			331	
400 ISL	6.09	6.07	34.124	26.855	124.1	0.695	1.13	16.2							403	
500 ISL	5.09	5.07	34.127	26.979	112.6	0.814	0.82	11.5							504	
531	4.76	4.72	34.123H	27.012	109.5	0.849	0.72	10.0	90.3	3.01	42.3	0.01			535	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 60 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
37 16.3 N	124 20.1 W	05/06/81	0233 GMT	3973 M	330	26 KT	330 10 6	0	1014.5 MB	15.5 C	14.1 C	0/8	CI			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.28	14.28	32.892	24.501	342.4	0.000	6.08	104.0							0	
3	14.28	14.28	32.892H	24.501	342.4	0.010	6.08	104.0	2.0	0.45	0.2	0.00	0.14	0.04	3	
10	14.28	14.28	32.886	24.497	343.0	0.034	6.08	104.0	1.9	0.45	0.0	0.00	0.13	0.03	10	
20 ISL	14.26	14.26	32.886	24.500	342.9	0.069	6.09	104.1							20	
22	14.26	14.26	32.886	24.501	342.9	0.075	6.09	104.1	2.0	0.46	0.0	0.00	0.15	0.04	22	
30 ISL	14.24	14.23	32.889	24.509	342.4	0.103	6.10	104.2							30	
33	14.23	14.23	32.894	24.514	342.0	0.113	6.10	104.2	2.0	0.45	0.0	0.00	0.13	0.05	33	
48	13.97	13.96	32.881	24.558	338.1	0.164	6.12	104.0	2.0	0.45	0.0	0.00	0.19	0.06	48	
50 ISL	13.89	13.89	32.883	24.577	336.4	0.171	6.12	103.8							50	
75 ISL	12.78	12.77	32.986	24.880	308.1	0.251	6.02	99.9							75	
79	12.58	12.57	33.015	24.940	302.5	0.263	5.99	98.9	3.7	0.63	1.2	0.62	0.41	0.21	79	
98	11.90	11.89	33.133	25.161	281.9	0.319	5.78	94.2	5.8	0.81	5.3	0.38	0.09	0.11	98	
100 ISL	11.80	11.79	33.147	25.192	278.9	0.324	5.71	92.8							100	
125 ISL	10.64	10.63	33.383	25.584	242.0	0.390	4.93	78.2							125	
126	10.60	10.59	33.396	25.600	240.6	0.392	4.90	77.7	14.5	1.29	14.0	0.25	0.02	0.11	126	
150 ISL	10.04	10.03	33.606	25.862	216.0	0.447	5.08	79.8							151	
154	9.98	9.96	33.641	25.897	212.8	0.456	5.12	80.2	17.2	1.47	15.9	0.26	0.04	0.11	155	
200 ISL	9.20	9.17	33.806	26.160	188.6	0.548	3.27	50.4							201	
207	9.09	9.07	33.823	26.186	186.2	0.561	2.92	44.9	29.5	1.95	25.5	0.06	0.02	0.05	208	
250 ISL	8.39	8.37	33.926	26.380	168.4	0.637	2.61	39.5							252	
300 ISL	7.65	7.62	34.022	26.566	151.1	0.718	2.25	33.4							302	
309	7.52	7.49	34.042H	26.596	148.4	0.732	2.18	32.4	46.1	2.35	31.3	0.02			311	
400 ISL	6.45	6.41	34.031	26.739	135.4	0.866	1.56	22.6							403	
500 ISL	5.63	5.58	34.098	26.896	121.1	0.992	0.92	13.1							504	
545	5.38	5.33	34.156H	26.967	114.7	1.042	0.65	9.2	83.0	3.07	41.0	0.01			549	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 60 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
36 56.6 N	125 3.7 W	05/06/81	1107 GMT	4284 M	330	27 KT	330 14	2	1015.0 MB	14.0 C	13.6 C	8/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.41	14.41	32.914	24.490	343.3	0.000	6.09	104.4							0
1	14.41	14.41	32.914H	24.490	343.3	0.003	6.09	104.4	2.9	0.40	0.2	0.01	0.12	0.01	1
6	14.41	14.41	32.920	24.495	343.0	0.021	6.05	103.8	2.8	0.41	0.1	0.00	0.10	0.02	6
10 ISL	14.41	14.40	32.920	24.496	343.0	0.034	6.05	103.7							10
16	14.40	14.40	32.919	24.497	343.1	0.055	6.04	103.6	2.9	0.40	0.1	0.01	0.12	0.01	16
20 ISL	14.38	14.38	32.917	24.500	342.9	0.069	6.05	103.6							20
26	14.35	14.35	32.916	24.506	342.6	0.089	6.07	104.0	2.8	0.39	0.0	0.02	0.11	0.07	26
30 ISL	14.12	14.11	32.914	24.554	338.1	0.103	6.11	104.2							30
47	12.92	12.91	32.921	24.800	315.0	0.158	6.25	103.9	3.2	0.43	0.0	0.05	0.35	0.14	47
50 ISL	12.80	12.80	32.917	24.821	313.1	0.168	6.22	103.3							50
73	12.23	12.22	32.916	24.930	303.3	0.239	5.96	97.7	4.2	0.57	1.2	0.84	0.29	0.10	73
75 ISL	12.20	12.19	32.915	24.937	302.6	0.245	5.95	97.5							75
95	11.87	11.86	32.986	25.052	292.1	0.304	5.90	96.0	5.3	0.69	3.2	0.88	0.12	0.08	95
100 ISL	11.74	11.73	33.029	25.112	286.5	0.318	5.77	93.6							100
118	11.15	11.14	33.236	25.378	261.5	0.368	5.15	82.6	11.5	1.02	10.7	0.08	0.04	0.10	118
125 ISL	10.84	10.83	33.315	25.497	250.3	0.385	4.89	77.9							125
144	10.00	9.98	33.533	25.810	220.9	0.430	4.20	65.8	18.8	1.40	17.7	0.04	0.03	0.07	145
150 ISL	9.82	9.80	33.579	25.879	214.4	0.444	4.05	63.2							151
200 ISL	8.71	8.68	33.875	26.290	176.0	0.543	5.11	47.4							201
216	8.50	8.48	33.926	26.359	169.7	0.571	2.94	44.6	34.0	1.93	26.2	0.03	0.01	0.05	217
250 ISL	7.99	7.97	33.994	26.452	157.5	0.628	2.56	38.4							252
300 ISL	7.38	7.35	34.040	26.619	146.0	0.704	2.12	31.3							302
308	7.29	7.26	34.046H	26.631	144.9	0.716	2.06	30.4	49.3	2.34	32.1	0.02			310
400 ISL	6.30	6.26	34.116	26.825	127.2	0.845	1.35	19.4							403
500 ISL	5.47	5.43	34.137	26.945	116.4	0.968	0.76	10.8							504
511	5.40	5.36	34.141H	26.953	115.7	0.980	0.71	10.0	82.1	2.98	40.2	0.02			515

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 63 52					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
37 17.6 N	122 36.4 W	04/06/81	0109 GMT	88 M	330	19 KT	330 5 5	0	1014.9 MB	14.5 C	13.1 C	0/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.16	13.16	33.857	25.476	249.5	0.000	7.74	130.1							0
2	13.16	13.16	33.857H	25.476	249.5	0.005	7.74	130.1	1.3	0.43	0.8	0.04	4.00	0.96	2
9	12.61	12.61	33.859	25.586	239.2	0.022	7.43	123.4	2.0	0.52	1.6	0.04	3.74	0.97	9
10 ISL	12.49	12.48	33.857	25.609	237.1	0.024	7.37	122.2							10
20 ISL	11.38	11.38	33.848	25.812	218.0	0.047	6.65	107.6							20
21	11.28	11.28	33.849	25.830	216.4	0.049	6.56	105.9	4.4	0.90	5.8	0.12	3.33	1.11	21
30 ISL	11.11	11.10	33.862	25.871	212.6	0.069	5.69	91.6							30
32	11.09	11.09	33.867	25.878	212.0	0.073	5.47	88.0	10.5	1.21	12.1	0.20	3.85	1.00	32
50 ISL	9.40	9.39	33.945	26.230	178.9	0.108	2.78	43.1							50
55	8.90	8.89	33.975	26.332	169.2	0.117	2.09	32.0	42.0	2.29	27.7	0.36	0.26	1.46	55
75 ISL	8.77	8.76	33.998	26.372	165.7	0.151	1.53	23.4							75
81	8.73	8.72	34.007H	26.385	164.7	0.160	1.36	20.8	53.3	2.57	28.8	0.31	0.46	2.31	81
88	8.72	8.71	34.014H	26.392	164.2	0.172	1.17	17.9	55.4	2.64	28.6	0.36	0.39	2.29	88

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 63 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
37 2.5 N	123 11.9 W	03/06/81	1533 GMT	2554 M	320	27 KT	320 8 3	2	1017.7 MB	13.7 C	13.1 C	8/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	12.01	12.01	33.739	25.608	237.0	0.000	6.86	112.5							0
3	12.01	12.01	33.739H	25.608	237.0	0.007	6.86	112.5	3.0	0.67	4.6	0.19	7.28	3.42	3
10	11.93	11.93	33.757	25.637	234.4	0.024	6.92	113.3	3.2	0.78	4.5	0.19	8.39	1.60	10
17	11.73	11.73	33.796	25.706	228.1	0.040	6.67	108.7	5.0	0.79	5.0	0.13	10.60	1.48	17
20 ISL	11.55	11.55	33.806	25.747	224.2	0.047	6.41	104.1							20
27	11.08	11.08	33.823	25.846	215.0	0.062	5.71	91.8	11.3	1.18	11.2	0.20	5.10	1.45	27
30 ISL	10.93	10.92	33.827	25.877	212.1	0.068	5.44	87.2							30
48	10.18	10.17	33.838	26.015	199.3	0.105	4.11	64.8	27.6	1.84	22.6	0.47	0.23	0.60	48
50 ISL	10.10	10.09	33.834	26.027	198.2	0.109	4.01	63.1							50
74	9.27	9.26	33.817	26.150	186.9	0.156	3.15	48.6	30.8	1.94	25.7	0.03	0.16	0.38	74
75 ISL	9.25	9.24	33.818	26.156	186.4	0.158	3.12	48.2							75
99	8.89	8.88	33.912	26.285	174.6	0.201	2.67	40.9	34.7	2.04	27.5	0.04	0.10	0.32	99
100 ISL	8.88	8.87	33.912	26.289	174.2	0.203	2.66	40.7							100
124	8.69	8.68	33.976	26.367	167.2	0.244	2.38	36.3	36.3	2.11	28.7	0.05	0.10	0.24	124
125 ISL	8.68	8.67	33.976	26.370	166.9	0.245	2.37	36.1							125
144	8.59	8.57	34.035	26.429	161.7	0.276	2.12	32.3	39.4	2.21	29.7	0.05	0.07	0.22	145
150 ISL	8.54	8.53	34.043	26.446	160.3	0.286	2.07	31.4							151
200 ISL	8.11	8.09	34.110	26.564	149.8	0.364	1.72	25.9							201
232	7.80	7.78	34.130	26.624	144.6	0.411	1.59	23.8	48.0	2.47	32.6	0.04	0.02	0.12	233
250 ISL	7.65	7.63	34.134	26.652	142.2	0.437	1.50	22.3							252
300 ISL	7.26	7.23	34.151	26.723	136.1	0.507	1.26	18.5							302
322	7.09	7.06	34.161H	26.750	133.8	0.537	1.16	17.1	59.2	2.70	35.5	0.01			324
400 ISL	6.53	6.49	34.191	26.855	124.6	0.637	0.86	12.6							403
500 ISL	5.88	5.83	34.249	26.985	113.1	0.756	0.59	8.5							504
526	5.72	5.67	34.272H	27.018	110.2	0.785	0.54	7.7	84.5	3.07	40.4	0.00			530



RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 63 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
36 42.7 N	123 54.8 W	03/06/81	0757 GMT	3881 M	310	18 KT		D	1017.5 MB	14.5 C	13.2 C		0/8		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	12.73	12.73	33.007	24.903	304.1	0.000	6.17	102.3							0
3	12.73	12.73	33.007H	24.903	304.1	0.009	6.17	102.3	5.9	0.69	3.9	0.15	0.33	0.09	3
9	12.49	12.49	33.113	25.031	292.0	0.027	6.21	102.5	6.8	0.81	6.1	0.20	0.56	0.15	9
10 ISL	12.37	12.37	33.114	25.056	289.7	0.030	6.21	102.1							10
19	11.32	11.32	33.112	25.249	271.5	0.055	6.11	98.3	8.2	0.88	6.8	0.23	0.38	0.25	19
20 ISL	11.32	11.32	33.126	25.261	270.4	0.058	6.10	98.1							20
29	11.30	11.30	33.224	25.340	263.1	0.082	5.98	96.2	9.1	0.95	8.0	0.23	0.71	0.31	29
30 ISL	11.31	11.31	33.238	25.350	262.2	0.085	5.98	96.3							30
47	11.40	11.39	33.480	25.521	246.3	0.128	6.01	97.1	8.1	1.11	10.2	0.31	0.41	0.23	47
50 ISL	11.35	11.34	33.508	25.553	243.4	0.135	5.93	95.7							50
73	10.76	10.75	33.675	25.788	221.5	0.189	5.08	81.0	17.2	1.52	15.6	0.44	0.15	0.17	73
75 ISL	10.71	10.70	33.687	25.807	219.7	0.193	5.02	80.0							75
97	10.19	10.18	33.806	25.990	202.8	0.240	4.34	68.4	28.2	1.80	21.4	0.48	0.09	0.15	97
100 ISL	10.11	10.10	33.807	26.007	201.3	0.246	4.23	66.5							100
120	9.59	9.58	33.829	26.108	191.9	0.285	3.45	53.7	29.8	1.94	25.0	0.11	0.09	0.24	120
125 ISL	9.48	9.47	33.845	26.141	188.9	0.294	3.26	50.6							125
145	9.11	9.09	33.934	26.269	177.1	0.331	2.60	40.0	33.6	2.09	27.1	0.04	0.03	0.24	146
150 ISL	9.03	9.01	33.945	26.293	174.9	0.340	2.60	39.9							151
200 ISL	8.29	8.27	34.036	26.480	157.9	0.424	2.55	38.5							201
221	8.02	8.00	34.052H	26.530	153.4	0.457	2.53	38.0	41.2	2.19	29.3	0.03	0.03	0.17	222
250 ISL	7.60	7.58	34.054	26.596	147.5	0.500	2.35	35.0							252
300 ISL	6.94	6.91	34.052	26.688	139.2	0.572	1.97	28.9							302
304	6.89	6.86	34.056	26.694	138.6	0.578	1.94	28.4	55.2	2.50	33.8	0.06			306
400 ISL	6.01	5.98	34.107	26.854	124.3	0.706	1.27	18.3							403
500 ISL	5.60	5.55	34.207	26.987	112.7	0.825	0.60	8.5							504
524	5.57	5.53	34.243H	27.013	110.4	0.852	0.44	6.2	86.2	3.13	41.1	0.02			528

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 67 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
36 47.0 N	122 3.4 W	01/06/81	2358 GMT	344 M	280	22 KT	290 3 5	1	1013.8 MB	13.5 C	12.0 C		7/8	CI	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	11.54	11.54	33.917	25.834	215.5	0.000	5.20	84.5							0
3	11.54	11.54	33.917	25.834	215.5	0.006	5.20	84.5	30.7	1.73	19.1	0.31	0.79	0.25	3
9	10.88	10.88	33.922	25.958	203.9	0.019	4.80	76.9	31.8	1.86	21.7	0.35	0.80	0.30	9
10 ISL	10.83	10.83	33.916	25.963	203.4	0.021	4.76	76.2							10
19	10.59	10.59	33.920	26.008	199.3	0.039	4.55	72.1	31.8	1.86	21.9	0.36	0.84	0.36	19
20 ISL	10.57	10.57	33.919	26.011	199.0	0.041	4.50	71.6							20
30 ISL	10.35	10.35	33.916	26.046	195.9	0.061	4.20	66.6							30
32	10.31	10.31	33.916	26.053	195.3	0.065	4.14	65.5	31.7	1.89	22.3	0.35	0.50	0.24	32
50 ISL	9.61	9.60	33.907	26.166	185.0	0.099	3.42	53.2							50
56	9.38	9.37	33.909	26.204	181.5	0.110	3.18	49.3	32.8	2.05	25.8	0.26	0.20	0.22	56
75 ISL	9.11	9.10	33.940	26.273	175.2	0.144	2.71	41.7							75
81	9.07	9.06	33.955	26.290	173.7	0.154	2.60	40.0	34.3	2.13	27.5	0.18	0.06	0.16	81
100 ISL	8.90	8.88	33.992	26.349	168.6	0.187	2.34	35.9							100
102	8.88	8.87	33.998	26.354	168.1	0.190	2.32	35.5	35.6	2.17	28.4	0.08	0.03	0.17	102
125 ISL	8.74	8.72	34.032	26.406	163.6	0.229	2.12	32.4							125
128	8.72	8.71	34.039	26.412	163.1	0.233	2.10	32.1	37.4	2.22	29.2	0.07	0.03	0.17	129
150 ISL	8.59	8.58	34.067	26.456	159.3	0.269	1.98	30.2							151
159	8.54	8.52	34.082	26.474	157.8	0.283	1.94	29.5	40.0	2.30	30.2	0.08	0.02	0.12	160
200 ISL	8.26	8.24	34.125	26.555	150.8	0.346	1.66	25.0							201
210	8.18	8.16	34.138	26.573	149.2	0.361	1.59	24.0							211
248	7.85	7.83	34.156	26.637	143.7	0.417	1.43	21.4	46.2	2.46	32.1	0.05	0.02	0.10	250
250 ISL	7.85	7.82	34.153	26.639	143.6	0.420	1.42	21.3							252
285	7.76	7.73	34.166	26.658	142.3	0.470	1.32	19.7	52.6	2.62	33.6	0.06			287

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 67 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
36 27.1 N	122 46.5 W	02/06/81	0647 GMT	2959 M	310	19 KT			1015.5 MB	13.5 C	12.8 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	12.73	12.73	33.713	25.450	252.0	0.000	6.82	113.5							0
2	12.73	12.73	33.713	25.450	252.0	0.005	6.82	113.5	0.9	0.54	6.5	0.31	5.21	0.46	2
8	12.72	12.72	33.712	25.451	252.1	0.020	6.80	113.1	0.9	0.56	6.8	0.31	6.13	0.46	8
10 ISL	12.70	12.70	33.714	25.457	251.6	0.025	6.74	112.1							10
19	12.38	12.38	33.728	25.530	244.9	0.047	6.31	104.2	1.8	0.84	8.4	0.29	6.22	0.15	19
20 ISL	12.28	12.28	33.730	25.550	243.0	0.050	6.24	102.9							20
30 ISL	11.30	11.29	33.754	25.754	223.8	0.073	5.57	90.0							30
34	10.88	10.88	33.767	25.838	215.8	0.082	5.30	84.8	17.2	1.47	13.7	0.32	0.47	0.14	34
50 ISL	10.33	10.32	33.771	25.938	206.6	0.116	4.61	72.9							50
55	10.25	10.24	33.771	25.951	205.5	0.126	4.42	69.7	24.8	1.74	20.1	0.33	0.13	0.26	55
75 ISL	9.45	9.44	33.812	26.119	189.9	0.166	3.32	51.5							75
80	9.26	9.25	33.830	26.162	185.9	0.175	3.08	47.6	31.1	1.95	25.6	0.04	0.08	0.26	80
100 ISL	8.88	8.87	33.903	26.281	175.0	0.211	2.77	42.5							100
104	8.83	8.82	33.919	26.300	173.2	0.218	2.76	42.2	34.3	2.07	27.2	0.03	0.04	0.26	104
125 ISL	8.47	8.46	33.952	26.384	165.6	0.254	2.67	40.5							125
130	8.40	8.39	33.962	26.401	164.1	0.262	2.65	40.2	37.2	2.11	28.1	0.03	0.03	0.23	131
150 ISL	8.27	8.26	34.013	26.463	158.5	0.294	2.40	36.2							151
160	8.23	8.21	34.042	26.490	156.2	0.310	2.26	34.1	40.7	2.23	29.7	0.03	0.02	0.15	161
200 ISL	7.85	7.83	34.071	26.572	149.0	0.371	2.04	30.6							201
209	7.76	7.74	34.077	26.587	147.7	0.385	2.01	30.0	46.4	2.36	31.6	0.03	0.03	0.13	210
250 ISL	7.42	7.39	34.109	26.666	140.7	0.444	1.65	24.5							252
300 ISL	7.03	7.00	34.154	26.756	132.8	0.512	1.20	17.6							302
307	6.98	6.95	34.165	26.768	131.8	0.522	1.13	16.6	60.1	2.74	35.8	0.02			309
400 ISL	6.32	6.28	34.222	26.907	119.5	0.640	0.81	11.7							403
500 ISL	5.69	5.64	34.266	27.022	109.4	0.755	0.47	6.7							504
520	5.57	5.53	34.278	27.041	107.8	0.777	0.40	5.7	86.2	3.14	40.9	0.02			524

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 67 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
36 7.4 N	123 28.6 W	02/06/81	1544 GMT	3541 M	320	19 KT	320 7 3	1	1017.2 MB	14.5 C	13.5 C		1/8	CI	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.82	13.82	33.394	24.984	296.4	0.000	6.00	102.0							0
3	13.82	13.82	33.394	24.984	296.4	0.009	6.00	102.0	4.0	0.76	4.8	0.15	0.53	0.18	3
10	13.52	13.52	33.491	25.121	283.6	0.029	6.17	104.3	4.1	0.84	6.3	0.16	0.53	0.17	10
19	13.10	13.10	33.554	25.254	271.1	0.054	6.23	104.4	4.3	0.90	7.2	0.19	0.72	0.18	19
20 ISL	13.01	13.00	33.567	25.283	268.4	0.057	6.20	103.8							20
29	12.03	12.03	33.683	25.562	242.1	0.080	5.83	95.6	8.4	1.27	11.0	0.26	0.41	0.15	29
30 ISL	11.91	11.91	33.682	25.584	239.9	0.082	5.77	94.3							30
50 ISL	9.96	9.95	33.654	25.910	209.3	0.127	4.45	69.7							50
53	9.73	9.72	33.643	25.939	206.6	0.134	4.24	66.1	22.2	1.65	18.9	0.40	0.28	0.11	53
75 ISL	9.33	9.32	33.811	26.137	188.1	0.177	3.25	50.2							75
77	9.29	9.28	33.822	26.151	186.9	0.181	3.18	49.1	30.3	1.92	25.1	0.31	0.06	0.12	77
98	8.92	8.91	33.926	26.292	174.0	0.219	2.78	42.6	33.9	2.08	26.9	0.18	0.04	0.15	98
100 ISL	8.87	8.86	33.935	26.307	172.5	0.222	2.75	42.1							100
109	8.68	8.67	33.981	26.373	166.5	0.237	2.58	39.3	35.3	2.13	28.0	0.19	0.04	0.13	109
119	8.53	8.52	34.006	26.415	162.6	0.254	2.22	33.7	38.2	2.18	29.2	0.03	0.03	0.14	119
125 ISL	8.47	8.45	34.015	26.434	160.9	0.264	2.19	33.2							125
150 ISL	8.23	8.21	34.054	26.501	154.9	0.303	2.05	30.9							151
200 ISL	7.86	7.84	34.097	26.592	147.1	0.380	1.77	26.4							201
210	7.80	7.78	34.104	26.603	146.2	0.394	1.71	25.6	48.8	2.43	32.4	0.03	0.02	0.12	211
250 ISL	7.36	7.34	34.108	26.672	140.0	0.452	1.50	22.2							252
300 ISL	6.82	6.79	34.114	26.753	132.9	0.520	1.25	18.3							302
343	6.35	6.32	34.121	26.817	127.2	0.576	1.05	15.2	67.2	2.82	37.7	0.02			345
400 ISL	5.89	5.85	34.146	26.901	119.8	0.647	0.81	11.6							403
500 ISL	5.31	5.27	34.225	27.035	107.8	0.761	0.46	6.5							504
526	5.21	5.17	34.257	27.067	104.9	0.789	0.38	5.3	95.5	3.16	41.9H	0.01			530

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 67 80			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER			DRY	WET	CLOUD	AMT	TYPE
35 47.2 N	124 11.7 W	02/06/81	2301	3948 M	310	17 KT	330 3 4	0	1017.8 MB			15.9 C	14.6 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.69	14.69	32.958	24.465	345.7	0.000	6.07	104.7							0	
1	14.69	14.69	32.958	24.465	345.7	0.003	6.07	104.7	3.1	0.39	0.1	0.00	0.10	0.02	1	
7	14.62	14.62	32.958	24.480	344.5	0.024	6.08	104.7	3.0	0.39	0.1	0.01	0.10	0.02	7	
10 ISL	14.49	14.49	32.930	24.486	342.3	0.035	6.11	104.9							10	
20	14.10	14.10	32.948	24.582	335.1	0.068	6.16	105.0	2.9	0.39	0.0	0.00	0.12	0.04	20	
30	14.15	14.15	33.327	24.865	308.5	0.101	6.06	103.6	3.3	0.40	0.0	0.01	0.28	0.15	30	
50 ISL	12.62	12.62	33.165	25.048	291.5	0.161	5.77	95.4							50	
52	12.42	12.41	33.128	25.058	290.6	0.166	5.73	94.4	6.4	0.72	4.3	0.35	0.29	0.15	52	
75 ISL	10.93	10.92	33.309	25.475	251.3	0.229	5.21	83.1							75	
79	10.72	10.71	33.361	25.551	244.2	0.239	5.08	80.8	13.4	1.18	12.9	0.32	0.03	0.09	79	
100 ISL	10.06	10.05	33.531	25.799	221.0	0.288	4.07	63.9							100	
105	9.95	9.94	33.569	25.845	216.7	0.299	3.84	60.1	22.5	1.60	20.2	0.06	0.02	0.11	105	
125 ISL	9.46	9.45	33.673	26.010	201.3	0.340	3.41	52.9							125	
130	9.35	9.34	33.699	26.046	198.0	0.350	3.35	51.8	27.1	1.79	23.5	0.02	0.01	0.09	131	
150 ISL	8.97	8.96	33.798	26.187	184.9	0.389	3.08	47.2							151	
160	8.80	8.78	33.846	26.249	179.2	0.407	2.99	45.7	31.7	1.92	25.9	0.01	0.01	0.08	161	
200 ISL	8.08	8.06	33.931	26.429	162.6	0.475	3.04	45.7							201	
211	7.91	7.89	33.950	26.466	159.2	0.493	3.06	45.8	38.5	2.00	28.0	0.02	0.01	0.07	212	
250 ISL	7.64	7.62	34.034	26.575	149.5	0.554	2.45	36.5							252	
300 ISL	7.45	7.43	34.133	26.681	140.3	0.627	1.49	22.1							302	
309	7.44	7.41	34.154H	26.695	139.0	0.639	1.29	19.1	54.3	2.60	34.2	0.01			311	
400 ISL	6.76	6.72	34.234	26.859	124.4	0.762	0.95	13.9							403	
500 ISL	5.73	5.69	34.225	26.984	112.9	0.882	0.58	8.3							504	
530	5.37	5.33	34.209H	27.010	110.5	0.915	0.47	6.6	86.2	3.10	41.2	0.00			534	

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 70 53			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER			DRY	WET	CLOUD	AMT	TYPE
36 7.1 N	121 52.1 W	01/06/81	0944	722 M	320	18 KT	340	2	1012.2 MB			11.3 C	10.7 C		8/8	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	10.08	10.08	33.955	26.123	188.1	0.000	3.76	59.2							0	
1H	10.08 H	10.08	33.955H	26.123	188.1	0.002	3.76	59.2	31.5	1.97	23.9	0.30	0.62	0.32	1	
10 ISL	10.08	10.08	33.952	26.121	188.4	0.019	3.74	58.9							10	
11H	10.08 H	10.08	33.952H	26.121	188.5	0.021	3.74	58.9	31.5	2.01	24.5	0.31	0.47	0.31	11	
20 ISL	10.07	10.07	33.950	26.121	188.6	0.038	3.75	59.0							20	
21H	10.07 H	10.07	33.950H	26.121	188.6	0.040	3.75	59.0	31.5	2.04	24.6	0.30	0.49	0.31	21	
30H	10.06 H	10.06	33.950H	26.123	188.7	0.057	3.72	58.5	31.5	2.03	24.5	0.31	0.49	0.28	30	
49H	10.03 H	10.02	33.960H	26.136	187.8	0.092	3.59	56.4	32.2	2.05	25.0	0.34	0.44	0.24	49	
50 ISL	10.02	10.02	33.958	26.137	187.8	0.094	3.57	56.1							50	
75 ISL	9.84	9.83	33.974	26.180	184.2	0.141	2.99	46.7							75	
78H	9.82 H	9.81	33.982H	26.189	183.4	0.146	2.90	45.4	33.7	2.13	26.0	0.39	0.19	0.27	78	
100 ISL	9.19	9.18	33.997	26.307	172.6	0.185	2.35	36.3							100	
102H	9.13 H	9.12	34.002H	26.318	171.6	0.189	2.31	35.6	34.6	2.13	27.3	0.03	0.03	0.19	102	
125H	8.96 H	8.95	34.072H	26.400	164.2	0.227	2.02	31.0	37.3	2.26	28.5	0.01	0.04	0.20	125	
150 ISL	8.73	8.72	34.124	26.479	157.2	0.268	1.78	27.2							151	
154H	8.70 H	8.68	34.134H	26.490	156.2	0.274	1.75	26.7	41.3	2.33	29.2	0.05	0.03	0.16	155	
200 ISL	8.50	8.48	34.171	26.554	151.0	0.344	1.52	23.2							201	
201H	8.50 H	8.48	34.176H	26.554	150.9	0.346	1.52	23.1	44.6	2.47	30.9	0.03	0.02	0.10	202	
250 ISL	8.21	8.18	34.173	26.601	147.4	0.420	1.33	20.2							252	
300 ISL	7.86	7.83	34.173	26.654	143.1	0.492	1.17	17.6							302	
305H	7.82 H	7.79					1.16	17.4	53.6	2.67	33.4	0.01			307	
400 ISL	7.11	7.07	34.190	26.777	132.5	0.628	0.88	12.9							403	
417H	6.95 H	6.91	34.199H	26.800	130.5	0.650	0.83	12.2	65.0	2.88	36.4	0.01			420	
500 ISL	5.93	5.88	34.239	26.972	114.4	0.750	0.56	8.0							504	
535H	5.40 H	5.36	34.272H	27.057	106.2	0.790	0.44	6.2	80.0	3.09	39.6	0.01			539	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 70 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 52.9 N	122 22.5 W	01/06/81	0508 GMT	3012 M	320	24 KT			1012.5 MB	14.0 C	12.5 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.06	14.06	33.332	24.886	305.6	0.000	6.08	103.8							0
1H	14.06 H	14.06	33.332H	24.886	305.6	0.003	6.08	103.8	3.9	0.52	1.0	0.13	0.30	0.13	1
10 ISL	14.05	14.05	33.329	24.886	305.8	0.031	6.08	103.8							10
11H	14.05 H	14.05	33.329H	24.886	305.9	0.034	6.08	103.8	3.7	0.51	0.8	0.13	0.52	0.18	11
20 ISL	13.96	13.96	33.324	24.902	304.7	0.061	6.08	103.6							20
21H	13.95 H	13.95	33.324H	24.904	304.5	0.064	6.08	103.5	3.6	0.51	1.0	0.13	0.41	0.18	21
30H	12.77 H	12.77	33.276H	25.104	285.7	0.091	6.04	100.3	4.6	0.67	3.3	0.29	0.54	0.27	30
50H	11.67 H	11.66	33.386H	25.399	258.1	0.145	5.78	93.9	7.9	0.99	8.5	0.33	0.28	0.11	50
75 ISL	10.17	10.16	33.516	25.767	223.5	0.205	4.43	69.7							75
79H	9.98 H	9.97	33.543H	25.819	218.5	0.214	4.18	65.5	19.4	1.45	17.7	0.07	0.03	0.06	79
100 ISL	9.71	9.70	33.730	26.012	200.7	0.258	3.30	51.4							100
104H	9.69 H	9.68	33.764H	26.041	198.0	0.266	3.18	49.6	26.4	1.80	22.9	0.06	0.02	0.10	104
125 ISL	9.11	9.10	33.810	26.173	185.8	0.307	3.13	48.1							125
128H	9.03 H	9.02	33.816H	26.189	184.3	0.312	3.12	47.9	29.6	1.90	25.0	0.03	0.01	0.05	129
150 ISL	8.74	8.73	33.895	26.298	174.3	0.352	2.90	44.2							151
156H	8.69 H	8.67	33.921H	26.325	171.9	0.362	2.83	43.2	33.0	1.99	26.8	0.05	0.01	0.04	157
200 ISL	8.19	8.16	34.017	26.481	157.8	0.435	2.56	38.6							201
204H	8.14 H	8.12	34.027H	26.492	156.7	0.441	2.54	38.3	39.6	2.15	29.1	0.04	0.01	0.04	205
250 ISL	7.58	7.55	34.065	26.608	146.3	0.511	2.13	31.7							252
300 ISL	7.02	7.00	34.087	26.704	137.7	0.582	1.67	24.5							302
308H	6.94 H	6.91	34.093H	26.717	136.6	0.593	1.59	23.3	56.2	2.58	34.8	0.04			310
400 ISL	6.31	6.28	34.145	26.846	125.2	0.714	0.92	13.3							403
416H	6.22 H	6.18	34.161H	26.866	123.5	0.734	0.83	12.0	71.3	2.92	38.6	0.03			419
500 ISL	5.61	5.57	34.218	26.994	111.9	0.833	0.49	7.0							504
526H	5.41 H	5.37	34.247H	27.035	108.1	0.861	0.43	6.1	87.1	3.15	41.4	0.04			530

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 70 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 33.6 N	123 1.6 W	31/05/81	2106 GMT	3872 M	320	19 KT	320 7 3	1	1017.2 MB	14.5 C	13.5 C		1/8	CI	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.54	13.54	33.426	25.066	288.5	0.000	6.06	102.4							0
1H	13.54 H	13.54	33.426H	25.066	288.5	0.003	6.06	102.4	3.6	0.76	5.4	0.16	0.32	0.10	1
10 ISL	13.51	13.51	33.426	25.072	288.2	0.029	6.17	104.2							10
11H	13.51 H	13.51	33.426H	25.072	288.2	0.032	6.18	104.4	3.6	0.75	5.6	0.16	0.35	0.11	11
20 ISL	13.51	13.51	33.425	25.072	288.5	0.058	6.19	104.5							20
21H	13.51 H	13.51	33.425H	25.072	288.5	0.061	6.19	104.5	5.1	0.94	7.7	0.23	0.44	0.24	21
30 ISL	12.45	12.45	33.633	25.443	253.4	0.085	6.32	104.5							30
31H	12.31 H	12.31	33.660H	25.491	248.9	0.087	6.33	104.4	5.1	0.94	7.9	0.23	0.43	0.25	31
50 ISL	10.47	10.46	33.655	25.824	217.5	0.132	5.61	88.9							50
51H	10.39 H	10.38	33.649H	25.832	216.8	0.134	5.55	87.8	13.2	1.39	13.6	0.21	0.12	0.08	51
75 ISL	9.36	9.36	33.727	26.066	195.0	0.184	3.74	57.8							75
80H	9.27 H	9.26	33.754H	26.101	191.7	0.193	3.39	52.3	27.3	1.86	23.1	0.19	0.07	0.09	80
100 ISL	8.98	8.97	33.905	26.267	176.3	0.230	3.10	47.7							100
104H	8.95 H	8.94	33.936H	26.295	173.7	0.237	3.08	47.3	33.8	2.09	26.3	0.29	0.06	0.13	104
125 ISL	8.74	8.73	34.001	26.380	166.0	0.273	2.30	35.2							125
129H	8.71 H	8.70	34.010H	26.391	165.1	0.279	2.16	33.0	37.8	2.24	28.8	0.27	0.04	0.10	130
150 ISL	8.52	8.51	34.045	26.449	159.9	0.314	2.03	30.9							151
158H	8.44 H	8.42	34.056H	26.469	158.2	0.326	1.98	30.0	49.7	2.30	30.0	0.10	0.02	0.11	159
200 ISL	7.71	7.69	34.039	26.567	149.4	0.391	2.31	34.5							201
206H	7.60 H	7.58	34.038H	26.580	148.2	0.400	2.37	35.3	45.1	2.29	30.8	0.07	0.02	0.10	207
250 ISL	7.16	7.14	34.062	26.664	140.8	0.463	2.05	30.3							252
300 ISL	6.82	6.79	34.107	26.748	133.4	0.532	1.46	21.3							302
312H	6.76 H	6.73	34.125H	26.766	131.8	0.548	1.28	18.7	56.8	2.74	36.1	0.09			314
400 ISL	6.13	6.09	34.178	26.895	120.4	0.661	0.94	13.5							403
500 ISL	5.49	5.45	34.226	27.015	109.9	0.777	0.54	7.7							504
537H	5.27 H	5.23	34.246H	27.051	106.6	0.817	0.40	5.6	89.5	3.19	41.5	0.02			541



RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 70 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 12.5 N	123 45.4 W	31/05/81	1326 GMT	4069 M	330	30 KT	340 12 A	1	1016.4 MB	13.7 C	12.2 C	5/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.15	14.15	32.937	24.563	336.4	0.000	6.12	104.4							0
1	14.15	14.15	32.937	24.563	336.4	0.003	6.12	104.4	2.7	0.45	0.3	0.01	0.13	0.04	1
6	14.15	14.15	32.936	24.562	336.6	0.020	6.10	104.1	2.7	0.44	0.2	0.00	0.13	0.04	6
10 ISL	14.15	14.15	32.939	24.564	336.6	0.034	6.10	104.2							10
15	14.16	14.16	32.943	24.566	336.5	0.050	6.11	104.3	2.6	0.43	0.1	0.00	0.13	0.02	15
20 ISL	14.12	14.12	32.950	24.579	335.4	0.067	6.12	104.3							20
24	14.08	14.08	32.967	24.601	333.5	0.081	6.13	104.4	2.5	0.42	0.0	0.00	0.15	0.01	24
30 ISL	14.02	14.01	33.051	24.680	326.1	0.100	6.19	105.3							30
41	13.78	13.77	33.204	24.846	310.5	0.135	6.27	106.3	3.4	0.45	0.0	0.00	0.40	0.13	41
50 ISL	13.32	13.31	33.181	24.924	303.4	0.163	6.20	104.1							50
66	12.39	12.38	33.071	25.020	294.6	0.211	5.97	98.3	4.7	0.64	1.8	0.70	0.29	0.16	66
75 ISL	12.00	11.99	33.037	25.069	290.1	0.237	5.85	95.4							75
84	11.67	11.66	33.031	25.124	285.0	0.263	5.74	93.0	8.4	0.84	6.6	0.02	0.09	0.12	84
100 ISL	11.34	11.33	33.146	25.276	270.9	0.307	5.75	92.6							100
118	11.04	11.03	33.357	25.492	250.7	0.354	5.76	92.2	8.6	1.01	8.8	0.49	0.04	0.09	118
125 ISL	10.85	10.83	33.434	25.589	241.6	0.371	5.41	86.3							125
141	10.38	10.36	33.613	25.807	221.2	0.409	4.50	71.1	19.3	1.47	17.2	0.26	0.03	0.10	142
150 ISL	10.14	10.13	33.670	25.896	212.9	0.428	4.20	66.0							151
200 ISL	9.01	8.99	33.895	26.259	179.1	0.528	3.07	47.1							201
221	8.62	8.60	33.934	26.347	171.0	0.565	2.87	43.7	33.7	1.96	26.4	0.02	0.02	0.07	222
250 ISL	8.20	8.18	34.003	26.469	159.8	0.614	2.42	36.5							252
300 ISL	7.61	7.58	34.097	26.630	145.1	0.691	1.77	26.3							302
323	7.39	7.36	34.131	26.684	140.2	0.724	1.52	22.5	52.5	2.54	33.5	0.01			325
400 ISL	6.61	6.58	34.214	26.861	124.1	0.830	0.86	12.5							403
500 ISL	5.80	5.76	34.245	26.991	112.5	0.951	0.46	6.5							504
523	5.65	5.61	34.245	27.005	111.2	0.976	0.44	6.3	83.0	3.09	40.5	0.01			527

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 70 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
34 53.2 N	124 28.6 W	31/05/81	0704 GMT	4322 M	320	30 KT			1019.0 MB	15.1 C	14.0 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.68	14.68	33.127	24.598	333.1	0.000	6.08	105.0							0
2	14.68	14.68	33.127	24.598	333.1	0.007	6.08	105.0	3.4	0.47	0.6	0.02	0.20	0.05	2
9	14.68	14.68	33.126	24.597	333.4	0.030	6.06	104.6	3.4	0.46	0.5	0.01	0.18	0.05	9
10 ISL	14.68	14.68	33.129	24.599	333.2	0.033	6.06	104.7							10
20	14.71	14.71	33.167	24.623	331.3	0.067	6.08	105.1	3.4	0.45	0.4	0.01	0.20	0.03	20
30	14.60	14.60	33.373	24.805	314.2	0.099	6.13	105.8	3.1	0.44	0.2	0.01	0.20	0.04	30
50 ISL	14.13	14.12	33.399	24.926	303.2	0.161	6.10	104.2							50
54	14.00	13.99	33.375	24.934	302.6	0.173	6.09	103.8	3.9	0.47	0.2	0.05	0.61	0.22	54
75 ISL	13.12	13.11	33.326	25.077	289.5	0.235	5.82	97.3							75
77	13.02	13.01	33.324	25.093	288.0	0.241	5.78	96.5	5.5	0.66	2.6	0.45	0.16	0.11	77
100 ISL	11.79	11.78	33.325	25.332	265.6	0.304	5.28	85.9							100
108	11.33	11.32	33.356	25.439	255.6	0.325	5.04	81.2	11.4	1.03	9.8	0.06	0.08	0.08	108
125 ISL	10.26	10.25	33.513	25.752	226.0	0.366	4.26	67.1							125
136	9.68	9.66	33.629	25.938	208.5	0.390	3.78	58.8	22.5	1.64	20.3	0.04	0.02	0.04	137
150 ISL	9.37	9.36	33.696	26.043	198.7	0.419	3.49	53.9							151
160	9.26	9.24	33.737	26.091	194.3	0.438	3.34	51.5	26.8	1.82	23.5	0.05	0.01	0.03	161
200 ISL	8.74	8.72	33.922	26.321	173.1	0.512	2.68	41.0							201
209	8.64	8.62	33.963	26.366	169.0	0.527	2.56	39.0	34.9	2.08	27.6	0.02	0.01	0.02	210
250 ISL	8.07	8.05	34.032	26.510	155.8	0.594	2.25	33.8							252
300 ISL	7.40	7.37	34.066	26.635	144.4	0.670	2.01	29.7							302
306	7.32	7.29	34.071	26.647	143.4	0.679	1.99	29.4	50.2	2.43	32.5	0.03			308
400 ISL	6.30	6.27	34.151	26.852	124.7	0.808	1.33	19.2							403
500 ISL	5.51	5.47	34.209	26.999	111.4	0.926	0.51	7.2							504
503	5.49	5.45	34.217	27.002	111.1	0.929	0.48	6.8	84.5	3.10	41.2	0.04			507

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 70 100					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
34 33.1 N	125 11.0 W	31/05/81	0024 GMT	4500 M	340	27 KT	360 8 5	1	1019.5 MB	16.0 C	14.0 C	1/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.24	15.24	33.237	24.562	336.5	0.000	5.87	102.6							0
1	15.24	15.24	33.237	24.562	336.5	0.003	5.87	102.6	3.2	0.39	0.0	0.00	0.13	0.01	1
6	15.24	15.24	33.244	24.567	336.1	0.020	5.97	104.3	3.2	0.38	0.0	0.00	0.11	0.03	6
10 ISL	15.24	15.24	33.246	24.569	336.1	0.034	5.97	104.2							10
17	15.25	15.25	33.252	24.572	336.1	0.057	5.96	104.1	3.3	0.38	0.0	0.00	0.12	0.04	17
20 ISL	15.23	15.23	33.248	24.574	336.0	0.067	5.96	104.1							20
29	15.17	15.17	33.256	24.592	334.5	0.097	5.98	104.3	3.3	0.38	0.0	0.00	0.12	0.02	29
30 ISL	15.14	15.13	33.253	24.598	333.9	0.101	5.99	104.4							30
50 ISL	14.28	14.28	33.197	24.739	321.1	0.166	6.10	104.6							50
51	14.23	14.22	33.195	24.747	320.3	0.169	6.11	104.6	3.3	0.35	0.0	0.00	0.16	0.05	51
75 ISL	13.29	13.28	33.092	24.861	310.0	0.245	6.11	102.5							75
79	13.15	13.14	33.088	24.885	307.8	0.257	6.11	102.2	3.3	0.40	0.0	0.06	0.41	0.24	79
100 ISL	12.56	12.55	33.223	25.108	287.1	0.320	5.68	95.8							100
105	12.37	12.36	33.275	25.182	280.1	0.334	5.50	90.6	7.1	0.71	4.3	0.02	0.08	0.07	105
125 ISL	10.70	10.68	33.468	25.642	236.6	0.385	4.29	68.3							125
133	10.02	10.00	33.556	25.824	219.3	0.404	3.82	59.9	20.7	1.55	18.9	0.01	0.03	0.04	134
150 ISL	9.34	9.33	33.669	26.026	200.3	0.440	3.46	53.4							151
162	9.07	9.05	33.734	26.119	191.7	0.463	3.35	51.5	27.3	1.81	23.7	0.00	0.01	0.04	163
200 ISL	8.54	8.52	33.891	26.328	172.4	0.533	2.97	45.1							201
211	8.46	8.44	33.929	26.367	168.8	0.552	2.88	43.7	34.3	2.00	27.0	0.00	0.00	0.03	212
250 ISL	7.96	7.93	34.000	26.502	156.5	0.615	2.49	37.4							252
300 ISL	7.35	7.32	34.053	26.633	144.6	0.692	2.02	29.8							302
315	7.17	7.14	34.065	26.663	141.9	0.713	1.88	27.7	51.6	2.44	33.1	0.01			317
400 ISL	6.32	6.29	34.135	26.837	126.1	0.831	1.24	17.9							403
500 ISL	5.56	5.52	34.174	26.965	114.7	0.954	0.70	9.9							504
533	5.37	5.33	34.181	26.988	112.6	0.991	0.57	8.0	84.9	3.09	41.2	0.00			537

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 73 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 38.5 N	121 15.5 W	28/05/81	2209 GMT	37 M	290	16 KT	290 2 4	2	1015.0 MB	12.7 C	12.0 C	8/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	11.53	11.53	33.850	25.784	220.2	0.000									0
2	11.53	11.53	33.850	25.784	220.2	0.004	4.55U		24.2	1.58	18.6	0.00	1.12	0.40	2
10 ISL	11.29	11.28	33.905	25.872	212.1	0.022	5.97	96.4							10
13	11.18	11.18	33.916	25.900	209.5	0.028	5.09	82.0	23.7	1.47	16.2	0.01	6.33	1.65	13
20 ISL	10.90	10.89	33.915	25.950	204.9	0.043	5.96	95.5							20
22	10.82	10.82	33.913	25.962	203.8	0.047	4.07	65.1	26.3	1.70	19.6	0.01	2.51	1.95	22
30 ISL	10.71	10.70	33.933	25.998	201.8	0.063	5.99	95.5							30
42	10.54	10.54	33.922	26.019	198.9	0.087	3.47	55.2	28.7	1.84	21.5	0.00	1.04	1.43	42

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 73 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 18.6 N	121 57.9 W	29/05/81	0445 GMT	2174 M	320	24 KT			1015.5 MB	14.5 C	13.2 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.06	14.06	33.134	24.734	320.2	0.000	6.15	104.9							0
2	14.06	14.06	33.134	24.734	320.2	0.006	6.15	104.9	3.2	0.47	1.3	0.00	0.47	0.11	2
6	14.05	14.05	33.135	24.737	320.0	0.019	6.13	104.5	3.2	0.48	1.2	0.00	0.41	0.09	6
10 ISL	14.03	14.03	33.150	24.753	318.6	0.032	6.14	104.6							10
17	14.00	14.00	33.188	24.788	315.4	0.054	6.15	104.8	3.2	0.48	1.2	0.00	0.37	0.10	17
20 ISL	13.91	13.91	33.173	24.795	314.8	0.064	6.15	104.6							20
29	13.53	13.53	33.110	24.824	312.3	0.092	6.16	103.9	3.3	0.53	1.6	0.00	0.40	0.07	29
30 ISL	13.48	13.47	33.105	24.832	311.6	0.095	6.16	103.7							30
50 ISL	12.31	12.30	33.071	25.037	292.6	0.155	5.93	97.4							50
53	12.11	12.10	33.076	25.076	288.8	0.164	5.87	96.0	6.1	0.80	5.4	0.00	0.28	0.12	53
75 ISL	10.73	10.73	33.118	25.361	262.1	0.224	5.11	81.1							75
80	10.50	10.49	33.160	25.432	255.4	0.237	4.96	78.4	14.4	1.23	13.2	0.00	0.09	0.11	80
100 ISL	10.56	10.55	33.584	25.755	225.2	0.285	5.25	83.3							100
107	10.58	10.57	33.729	25.863	215.2	0.301	5.29	84.0	16.9	1.42	14.6	0.00	0.05	0.11	107
125 ISL	9.57	9.55	33.758	26.059	196.6	0.338	4.15	64.4							125
133	9.09	9.08	33.749	26.127	190.3	0.354	3.56	54.7	26.0	1.72	22.7	0.00	0.03	0.07	134
150 ISL	8.84	8.82	33.832	26.235	180.3	0.385	2.99	45.7							151
159	8.80	8.78	33.886	26.280	176.2	0.401	2.81	42.9	32.4	1.99	26.7	0.00	0.02	0.11	160
200 ISL	8.17	8.15	33.997	26.466	159.1	0.470	2.61	39.4							201
207	8.06	8.04	34.012	26.492	156.7	0.481	2.58	38.8	40.1	2.14	29.3	0.00	0.02	0.09	208
250 ISL	7.54	7.52	34.053	26.604	146.7	0.547	2.28	33.8							252
300 ISL	7.05	7.02	34.076	26.693	138.8	0.619	1.89	27.8							302
310	6.96	6.93	34.082	26.705	137.7	0.633	1.81	26.5	54.3	2.51	34.0	0.00			312
400 ISL	6.26	6.23	34.152	26.858	124.1	0.753	1.19	17.1							403
500 ISL	5.78	5.74	34.243	26.992	112.3	0.872	0.55	7.8							504
524	5.71	5.67	34.272	27.019	110.0	0.898	0.40	5.7	82.7	3.11	40.9	0.00			528

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 73 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE			
34 58.5 N	122 39.8 W	29/05/81	1300 GMT	4052 M	320	23 KT	320 8 4	1	1016.0 MB	13.1 C	12.1 C	3/R	SC			
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SI03 UM/L	P04 UM/L	N03 UM/L	N02 UM/L	CHL A UG/L	PHAEO UG/L	PRESS D.BAR	
0 ISL	13.99	13.99	33.281	24.862	308.0	0.000	6.07	103.4							0	
1	13.99	13.99	33.281	24.862	308.0	0.003	6.07	103.4							1	
7	14.00	14.00	33.281	24.860	308.3	0.022	6.11	104.1	3.2	0.47	1.1	0.00	0.26	0.14	1	
10 ISL	14.00	14.00	33.281	24.860	308.4	0.031	6.13	104.5	3.1	0.47	1.0	0.00	0.24	0.07	7	
16	14.00	14.00	33.281	24.860	308.5	0.049	6.15	104.8							10	
20 ISL	14.00	13.99	33.280	24.861	308.6	0.062	6.13	104.4	3.1	0.46	1.0	0.00	0.29	0.06	16	
26	13.99	13.99	33.281	24.862	308.6	0.080	6.08	103.6							20	
30 ISL	13.80	13.80	33.279	24.900	305.1	0.092	6.06	102.9	2.9	0.47	0.9	0.01	0.23	0.08	26	
46	12.91	12.90	33.306	25.100	286.5	0.140	6.00	100.0							30	
50 ISL	12.81	12.81	33.326	25.136	283.2	0.151	5.98	99.5	4.2	0.67	2.9	0.00	0.26	0.10	46	
71	12.51	12.50	33.468	25.304	267.7	0.209	5.87	97.1							50	
75 ISL	12.45	12.44	33.497	25.341	264.3	0.220	5.85	96.7	4.6	0.82	6.7	0.00	0.60	0.08	71	
96	12.00	11.99	33.624	25.523	247.5	0.273	5.75	94.2							75	
100 ISL	11.86	11.85	33.618	25.548	245.2	0.283	5.68	92.8	8.8	1.20	11.4	0.00	0.95	0.21	96	
120	11.04	11.03	33.606	25.686	232.4	0.331	5.03	80.7							100	
125 ISL	10.82	10.80	33.625	25.743	227.0	0.342	4.66	74.8	16.4	1.40	16.0	0.01	0.10	0.17	120	
147	9.88	9.86	33.760	26.007	202.2	0.390	3.11	48.7							125	
150 ISL	9.79	9.77	33.770	26.033	199.8	0.396	3.08	48.1	25.6	1.82	23.1	0.00	0.20	0.14	148	
200 ISL	8.68	8.66	33.953	26.355	169.8	0.489	2.58	39.3							151	
216	8.47	8.45	33.993	26.416	164.3	0.516	2.42	36.7							201	
250 ISL	7.96	7.94	34.038	26.531	153.7	0.571	2.16	32.4	37.0	2.10	28.5	0.00	0.05	0.14	217	
300 ISL	7.35	7.32	34.081	26.654	142.6	0.646	1.83	27.0							252	
321	7.14	7.11	34.092	26.688	139.6	0.676	1.70	25.0	53.2	2.51	33.7	0.00			302	
400 ISL	6.40	6.37	34.154	26.842	125.8	0.783	1.19	17.2							323	
500 ISL	5.80	5.76	34.219	26.971	114.3	0.904	0.58	8.2							403	
515	5.74	5.70	34.233	26.985	113.2	0.921	0.49	7.0	81.0	3.04	40.3	0.00			504	
															519	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 73 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD AMT	TYPE			
34 38.4 N	123 22.0 W	30/05/81	0349 GMT	4155 M	320	22 KT	320 5 4	2	1016.8 MB	15.5 C	14.7 C	9/8	SC			
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SI03 UM/L	P04 UM/L	N03 UM/L	N02 UM/L	CHL A UG/L	PHAEO UG/L	PRESS D.BAR	
0 ISL	15.81	15.81	33.471	24.615	331.4	0.000	5.84	103.3							0	
1	15.81	15.81	33.471	24.615	331.4	0.003	5.84	103.3							1	
7	15.82	15.82	33.473	24.615	331.7	0.023	5.83	103.2	3.0	0.31	0.5	0.00	0.10	0.02	7	
10 ISL	15.82	15.82	33.472	24.615	331.7	0.033	5.83	103.2	3.0	0.30	0.4	0.00	0.08	0.02	10	
19	15.81	15.81	33.471	24.616	331.9	0.063	5.84	103.3							19	
20 ISL	15.80	15.80	33.469	24.616	331.7	0.066	5.84	103.3	3.0	0.30	0.3	0.00	0.19	0.04	20	
30 ISL	15.62	15.62	33.450	24.643	329.5	0.099	5.88	103.5							30	
31	15.59	15.59	33.448	24.648	329.3	0.103	5.88	103.6							31	
50 ISL	14.11	14.11	33.371	24.908	305.0	0.163	6.04	103.2	2.9	0.30	0.3	0.00	0.09	0.02	50	
56	13.58	13.57	33.356	25.005	295.8	0.181	6.06	102.4							56	
75 ISL	12.74	12.73	33.350	25.170	280.5	0.236	5.73	95.2	3.4	0.50	1.3	0.00	0.48	0.20	75	
81	12.52	12.51	33.362	25.220	275.9	0.252	5.57	92.1							81	
100 ISL	11.54	11.53	33.440	25.468	252.7	0.302	4.99	80.9	6.7	0.66	4.4	0.00	0.20	0.18	100	
110	10.99	10.98	33.501	25.613	239.1	0.327	4.65	74.4							110	
125 ISL	10.09	10.08	33.585	25.837	217.9	0.361	4.12	64.7	14.9	1.22	14.0	0.01	0.07	0.09	125	
137	9.48	9.46	33.663	25.997	202.8	0.387	3.74	58.0							137	
150 ISL	9.14	9.13	33.734	26.109	192.4	0.412	3.49	53.8	22.9	1.61	20.7	0.01	0.02	0.04	150	
160	8.98	8.96	33.789	26.176	186.1	0.431	3.35	51.4							160	
200 ISL	8.50	8.48	33.957	26.386	166.8	0.502	2.84	43.2	28.5	1.80	24.0	0.01	0.01	0.04	200	
210	8.41	8.39	33.993	26.425	163.3	0.519	2.74	41.5							210	
250 ISL	7.88	7.85	34.044	26.549	152.0	0.582	2.40	35.9	36.3	2.04	27.9	0.01	0.01	0.03	250	
300 ISL	7.22	7.19	34.065	26.659	142.0	0.657	2.05	30.3							300	
314	7.04	7.01	34.066	26.682	140.0	0.676	1.97	28.9	52.6	2.40	33.0	0.01			314	
400 ISL	6.18	6.14	34.117	26.841	125.7	0.794	1.39	20.0							400	
500 ISL	5.48	5.44	34.164	26.967	114.4	0.915	0.78	11.0							500	
526	5.35	5.31	34.179	26.989	112.4	0.944	0.63	8.9	84.6	3.02	40.8	0.01			526	



RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 73 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
34 18.6 N	124 3.8 W	30/05/81	1038 GMT	3160 M	330	22 KT	320 7	5	1018.1 MB	16.0 C	15.0 C	8/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.27	15.27	33.317	24.616	331.3	0.000	5.83	102.0							0
1	15.27	15.27	33.317	24.616	331.3	0.003	5.83	102.0	4.3	0.41	0.5	0.00	0.12	0.02	1
4	15.27	15.27	33.318	24.617	331.3	0.013	5.95	104.1	4.2	0.42	0.4	0.00	0.11	0.02	4
10 ISL	15.22	15.22	33.326	24.635	329.9	0.033	5.96	104.1							10
13	15.20	15.20	33.345	24.654	328.1	0.043	5.96	104.1	4.0	0.41	0.2	0.00	0.14	0.04	13
20 ISL	14.68	14.68	33.315	24.744	319.8	0.066	6.04	104.3							20
23	14.44	14.44	33.302	24.784	316.0	0.075	6.07	104.4	4.1	0.42	0.1	0.00	0.17	0.07	23
30 ISL	14.34	14.34	33.325	24.824	312.4	0.097	6.04	103.7							30
41	14.19	14.18	33.334	24.862	309.1	0.131	6.00	102.7	4.2	0.45	0.1	0.04	0.51	0.21	41
50 ISL	13.85	13.85	33.311	24.915	304.2	0.159	5.94	101.0							50
69	12.94	12.93	33.272	25.069	290.1	0.215	5.72	95.3	6.2	0.62	2.5	0.19	0.24	0.21	69
75 ISL	12.66	12.65	33.277	25.129	284.4	0.232	5.62	93.1							75
96	11.59	11.58	33.363	25.397	259.4	0.289	5.04	81.7	11.2	0.98	9.2	0.04	0.07	0.08	96
100 ISL	11.33	11.32	33.392	25.468	252.6	0.300	4.84	78.0							100
121	10.05	10.04	33.586	25.842	217.3	0.349	3.80	59.6	21.3	1.58	19.3	0.02	0.02	0.06	121
125 ISL	9.87	9.85	33.618	25.900	211.9	0.358	3.67	57.4							125
147	9.08	9.06	33.791	26.161	187.3	0.402	3.17	48.7	29.2	1.88	24.4	0.02	0.02	0.06	147
150 ISL	9.01	9.00	33.803	26.184	185.2	0.407	3.13	48.1							151
200 ISL	8.24	8.21	33.974	26.439	161.7	0.495	2.75	41.5							201
215	8.13	8.11	33.995	26.469	159.2	0.519	2.72	41.0	38.6	2.09	28.1	0.02	0.01	0.03	216
250 ISL	7.70	7.67	34.032	26.565	150.5	0.574	2.42	36.0							252
300 ISL	7.14	7.11	34.062	26.669	141.1	0.648	1.97	29.0							302
318	6.95	6.92	34.070	26.697	138.6	0.673	1.81	26.5	55.0	2.55	33.8	0.01			320
400 ISL	6.20	6.16	34.127	26.847	125.1	0.783	1.20	17.3							403
500 ISL	5.50	5.45	34.199	26.992	112.0	0.902	0.60	8.5							504
521	5.38	5.34	34.219	27.017	109.8	0.925	0.49	6.9	87.0	3.14	41.3	0.01			525

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 73 100					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 58.4 N	124 45.1 W	30/05/81	1657 GMT	4547 M	350	28 KT	350 10 4	2	1020.6 MB	14.8 C	13.5 C	8/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	15.26	15.26	33.235	24.556	337.1	0.000	5.99	104.7	3.9	0.39	0.2	0.00	0.11	0.02	0
5	15.29	15.29	33.249	24.560	336.8	0.017	6.21	108.6	3.8	0.39	0.2	0.01	0.11	0.02	5
10 ISL	15.28	15.28	33.248	24.562	336.8	0.034	6.07	106.1							10
12	15.28	15.28	33.249	24.562	336.8	0.040	5.98	104.6	3.6	0.38	0.0	0.01	0.11	0.02	12
20 ISL	14.72	14.72	33.176	24.628	330.7	0.067	6.05	104.5							20
23	14.46	14.46	33.147	24.660	327.8	0.077	6.07	104.3	3.4	0.37	0.0	0.01	0.13	0.03	23
30 ISL	14.08	14.07	33.119	24.721	322.2	0.100	6.09	103.8							30
43	13.60	13.59	33.115	24.814	313.6	0.141	6.12	103.3	3.5	0.37	0.0	0.00	0.23	0.07	43
50 ISL	13.55	13.54	33.133	24.840	311.3	0.163	6.09	102.8							50
67	13.43	13.42	33.174	24.895	306.6	0.216	6.03	101.5	3.8	0.36	0.0	0.01	0.40	0.18	67
75 ISL	13.28	13.27	33.164	24.920	304.5	0.240	5.99	100.4							75
94	12.93	12.92	33.264	25.065	291.1	0.296	5.69	94.8	5.6	0.59	2.3	0.04	0.10	0.09	94
100 ISL	12.44	12.42	33.290	25.183	279.9	0.313	5.45	89.8							100
121	10.57	10.56	33.446	25.644	236.3	0.367	4.52	71.7	15.5	1.24	14.1	0.02	0.04	0.06	121
125 ISL	10.34	10.32	33.482	25.715	229.6	0.377	4.39	69.3							125
146	9.39	9.37	33.687	26.030	199.8	0.422	3.84	59.4	23.5	1.60	20.4	0.01	0.01	0.04	147
150 ISL	9.27	9.25	33.709	26.070	196.1	0.430	3.77	58.1							151
200 ISL	8.17	8.15	33.916	26.403	165.2	0.522	2.96	44.6							201
215	8.01	7.99	33.940	26.443	161.5	0.547	4.34U		32.7	1.69	23.3	0.00	0.02	0.06	216
250 ISL	7.52	7.49	33.990	26.558	151.0	0.602	2.38	35.4							252
300 ISL	6.96	6.93	34.034	26.672	140.7	0.676	2.03	29.8							302
322	6.76	6.73	34.045	26.703	137.9	0.707	1.95	28.4	55.5	2.48	33.7	0.01			324
400 ISL	6.11	6.07	34.113	26.847	125.1	0.812	1.28	18.4							403
500 ISL	5.58	5.54	34.190	26.974	113.8	0.932	0.58	8.3							504
514	5.54	5.50	34.206	26.987	112.7	0.947	0.50	7.1	83.7	3.09	40.7	0.01			518

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 77 51					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
35 1.4 N	120 55.2 W	28/05/81	1410 GMT	247 M	320	14 KT	320 6 5	2	1015.5 MB	13.4 C	11.5 C	8/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	12.75	12.75	33.774	25.493	247.9	0.000	6.30	104.9							0
1H	12.75 H	12.75	33.774H	25.493	247.9	0.002	6.30	104.9	9.1	0.95	9.1	0.01	4.18	0.37	1
10 ISL	12.73	12.73	33.767	25.492	248.2	0.025	6.31	105.0							10
11H	12.73 H	12.73	33.767H	25.492	248.3	0.027	6.31	105.0	9.0	0.95	9.5	0.01	7.53	0.48	11
20 ISL	12.57	12.57	33.759	25.518	246.0	0.050	6.14	101.8							20
21H	12.55 H	12.55	33.759H	25.521	245.8	0.052	6.12	101.5	9.6	1.07	10.6	0.17	12.41	0.11	21
30 ISL	11.73	11.73	33.750	25.671	231.7	0.073	5.18	84.3							30
31H	11.63 H	11.63	33.751H	25.689	230.0	0.076	5.06	82.3	16.3	1.49	15.8	0.14	2.41	0.52	31
50H	10.95 H	10.94	33.789H	25.843	215.8	0.118	4.21	67.5	22.2	1.71	19.7	0.09	1.37	0.40	50
74H	9.91 H	9.90	33.927H	26.131	188.9	0.167	2.53	39.7	28.9	2.01	24.6	0.01	0.14	0.31	74
75 ISL	9.88	9.88	33.929	26.138	188.2	0.169	2.52	39.5							75
98H	9.50 H	9.49	34.003H	26.259	177.2	0.211	2.30	35.7	31.9	2.10	26.2	0.01	0.13	0.34	98
100 ISL	9.48	9.47	34.007	26.267	176.4	0.214	2.29	35.5							100
122H	9.27 H	9.26	34.069H	26.348	169.1	0.252	2.14	33.1	35.1	2.19	27.4	0.00	0.07	0.30	122
125 ISL	9.25	9.23	34.073	26.357	168.4	0.257	2.12	32.7							125
146H	9.08 H	9.06	34.112H	26.413	163.5	0.292	1.95	30.0	37.4	2.25	28.6	0.01	0.04	0.18	147
150 ISL	9.04	9.03	34.115	26.424	162.5	0.299	1.92	29.5							151
194H	8.63 H	8.61	34.170H	26.530	153.2	0.368	1.62	24.7	42.5	2.40	30.3	0.00	0.01	0.08	195
200 ISL	8.58	8.56	34.170	26.542	152.2	0.377	1.59	24.1							201
235H	8.28 H	8.26	34.189H	26.599	147.3	0.430	1.41	21.3	46.5	2.49	31.6	0.00			236



RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 77 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 43.4 N	121 33.2 W	28/05/81	0406 GMT	916 M	320	20 KT	320 3 6	2	1015.2 MB	13.8 C	12.7 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	13.25	13.25	33.749	25.374	259.2	0.000	6.53	109.9							0	
1H	13.25 H	13.25	33.749H	25.374	259.2	0.003	6.53	109.9	9.8	0.72	6.7	0.01	3.75	0.63	1	
10 ISL	13.27	13.27	33.745	25.368	260.1	0.026	6.55	110.2							10	
11H	13.27 H	13.27	33.745H	25.367	260.1	0.029	6.55	110.3	9.5	0.73	6.8	0.01	5.38	0.10	11	
20H	13.26 H	13.26	33.745H	25.370	260.2	0.052	6.55	110.2	9.8	0.76	6.9	0.02	5.31	0.45	20	
30H	13.20 H	13.20	33.742H	25.380	259.5	0.078	6.45	108.4	9.9	0.78	7.1	0.05	5.03	0.46	30	
50H	11.76 H	11.75	33.747H	25.663	233.0	0.127	5.07	82.7	19.1	1.58	15.7	0.22	0.29	0.12	50	
75 ISL	10.16	10.15	33.777	25.973	204.0	0.182	3.43	54.1							75	
78H	10.01 H	10.00	33.785H	26.003	201.1	0.188	3.28	51.5	25.5	1.87	22.5	0.02	0.20	0.22	78	
100 ISL	9.45	9.43	33.849	26.149	187.6	0.231	2.93	45.5							100	
102H	9.42 H	9.41	33.859H	26.159	186.7	0.235	2.92	45.3	29.3	2.00	24.8	0.01	0.07	0.22	102	
125 ISL	9.22	9.21	33.972	26.282	175.5	0.276	2.43	37.5							125	
126H	9.22 H	9.21	33.980H	26.287	175.1	0.278	2.41	37.2	33.3	2.16	26.5	0.01	0.10	0.18	126	
150 ISL	9.07	9.05	34.069	26.384	166.3	0.319	2.06	31.7							150	
154H	9.04 H	9.02	34.085H	26.398	165.0	0.326	2.01	30.9	37.1	2.29	28.3	0.00	0.05	0.19	155	
200 ISL	8.51	8.49	34.149	26.536	152.7	0.399	1.62	24.7							201	
202H	8.48 H	8.46	34.155H	26.541	152.3	0.402	1.61	24.5	43.9	2.47	30.7	0.00	0.05	0.10	203	
250 ISL	7.97	7.94	34.197	26.655	142.1	0.472	1.35	20.3							252	
300 ISL	7.48	7.46	34.229	26.752	133.5	0.542	1.14	16.9							302	
307H	7.42 H	7.39	34.237H	26.763	132.5	0.551	1.11	16.5	57.3	2.78	34.7	0.00			309	
400 ISL	6.64	6.60	34.251	26.888	121.6	0.670	0.63	9.2							403	
417H	6.51 H	6.47	34.259H	26.906	120.0	0.690	0.56	8.1	73.7	3.06	37.7	0.00			420	
500 ISL	6.00	5.96	34.283	26.997	112.2	0.787	0.47	6.8							504	
532H	5.85 H	5.80	34.305H	27.028	109.5	0.822	0.44	6.3	83.2	3.20	40.4	0.00			536	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 77 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 23.2 N	122 14.8 W	27/05/81	2104 GMT	2145 M	340	19 KT	320 6 5	2	1015.7 MB	14.0 C	13.1 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	13.52	13.52	33.541	25.159	279.7	0.000	6.74	113.9							0	
1H	13.52 H	13.52	33.541H	25.159	279.7	0.003	6.74	113.9	0.7	0.48	3.6	0.01	2.48	0.00	1	
10 ISL	13.50	13.50	33.541	25.163	279.6	0.028	6.76	114.2							10	
11H	13.50 H	13.50	33.541H	25.163	279.5	0.031	6.76	114.2	0.7	0.44	3.5	0.01	2.68	0.17	11	
20 ISL	13.01	13.01	33.578	25.290	267.7	0.055	6.37	106.6							20	
21H	12.95 H	12.95	33.583H	25.306	266.2	0.058	6.32	105.6	1.7	0.75	6.1	0.01	2.13	0.34	21	
30 ISL	12.54	12.54	33.603	25.403	257.3	0.082	5.97	99.0							30	
31H	12.50 H	12.50	33.606H	25.412	256.4	0.084	5.94	98.3	7.0	1.00	8.8	0.01	2.40	0.69	31	
50H	11.64 H	11.63	33.644H	25.605	238.5	0.131	5.47	88.9	14.4	1.35	14.1	0.01	0.53	0.29	50	
75 ISL	10.02	10.01	33.693	25.932	207.8	0.187	3.64	57.1							75	
78H	9.85 H	9.84	33.705H	25.968	204.4	0.193	3.42	53.5	25.1	1.79	22.6	0.04	0.34	0.26	78	
100 ISL	9.57	9.56	33.803	26.093	192.9	0.237	3.00	46.7							100	
102H	9.56 H	9.55	33.815H	26.102	192.2	0.241	2.99	46.5	28.0	1.94	24.8	0.01	0.19	0.19	102	
125 ISL	9.08	9.07	33.916	26.261	177.4	0.283	2.57	39.5							125	
126H	9.06 H	9.05	33.923H	26.268	176.8	0.285	2.55	39.2	32.5	2.06	27.1	0.00	0.09	0.13	126	
150 ISL	8.67	8.66	33.960	26.360	168.4	0.327	2.43	37.0							151	
154H	8.62 H	8.60	33.967H	26.371	167.4	0.333	2.42	36.9	35.8	2.13	28.1	0.00	0.12	0.14	155	
200 ISL	8.20	8.18	34.053	26.507	155.3	0.407	2.19	33.0							201	
203H	8.18 H	8.16	34.063H	26.514	154.6	0.412	2.17	32.7	41.5	2.31	30.1	0.00	0.06	0.03	204	
250 ISL	7.59	7.56	34.092	26.628	144.4	0.483	1.86	27.7							252	
300 ISL	6.96	6.93	34.101	26.724	135.8	0.553	1.53	22.4							302	
310H	6.83 H	6.80	34.104H	26.740	134.3	0.567	1.46	21.3	58.4	2.70	35.4	0.01			312	
400 ISL	6.08	6.04					0.96								403	
500 ISL	5.65	5.61					0.51								504	
536H	5.60 H	5.55					0.38		85.6	3.20	41.0	0.00			540	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 77 100					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
33 23.5 N	124 19.5 W	26/05/81	2323 GMT	4484 M	350	12 KT	360 2 3	1	1015.1 MB	15.8 C	13.9 C		1/8	CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	16.11	16.11	33.335	24.443	347.8	0.000	5.71	101.5							0	
1	16.11	16.11	33.335H	24.443	347.8	0.003	5.71	101.5	3.4	0.38	0.5	0.02	0.09	0.01	1	
10 ISL	15.95	15.95	33.332	24.477	344.8	0.035	5.81	103.0							10	
14	15.88	15.88	33.331H	24.492	343.5	0.048	5.84	103.4	3.4	0.36	0.2	0.02	0.08	0.01	14	
20 ISL	15.77	15.77	33.327	24.515	341.6	0.069	5.86	103.4							20	
23	15.72	15.72	33.327H	24.525	340.7	0.079	5.86	103.4	3.4	0.36	0.2	0.03	0.12	0.01	23	
30 ISL	15.67	15.67	33.325	24.536	339.9	0.103	5.87	103.4							30	
41	15.60	15.59	33.327H	24.553	338.6	0.140	5.88	103.5	3.3	0.35	0.1	0.03	0.12	0.02	41	
50 ISL	15.50	15.49	33.333	24.582	336.1	0.171	5.90	103.7							50	
64	15.14	15.13	33.338H	24.663	328.8	0.217	5.94	103.6	3.2	0.35	0.1	0.03	0.24	0.06	64	
75 ISL	14.52	14.51	33.306	24.775	318.4	0.253	5.95	102.5							75	
91	13.40	13.39	33.276	24.981	299.1	0.302	5.97	100.5	3.7	0.46	0.4	0.08	0.60	0.29	91	
100 ISL	12.79	12.77	33.279	25.108	287.1	0.328	5.78	96.0							100	
115	11.76	11.75	33.326H	25.337	265.5	0.370	5.31	86.3	8.3	0.85	7.0	0.03	0.14	0.11	115	
125 ISL	11.04	11.03	33.370	25.505	249.7	0.395	4.93	79.0							125	
138	10.22	10.20	33.463H	25.718	229.5	0.427	4.41	69.4	16.4	1.40	16.2	0.03	0.05	0.04	138	
150 ISL	9.75	9.73	33.575	25.887	213.6	0.453	3.93	61.3							151	
161	9.43	9.41	33.685H	26.023	200.8	0.476	3.55	55.0	24.4	1.83	23.2	0.03	0.01	0.03	162	
200 ISL	8.54	8.52	33.905	26.338	171.4	0.549	3.04	46.1							201	
208	8.41	8.39	33.938H	26.382	167.4	0.563	3.00	45.5	34.1	2.11	27.9	0.01	0.00	0.02	209	
250 ISL	7.81	7.78	34.027	26.546	152.3	0.631	2.49	37.2							252	
300 ISL	7.28	7.25	34.068	26.654	142.6	0.705	1.91	28.2							302	
301	7.27	7.24	34.073H	26.655	142.5	0.707	1.90	28.1	50.7	2.62	34.4	0.03			303	
400 ISL	6.32	6.29	34.168	26.863	123.7	0.843	1.05	15.2							403	
500 ISL	5.65	5.61	34.214	26.985	112.9	0.963	0.53	7.5							504	
518	5.56	5.52	34.222H	26.998	111.8	0.982	0.47	6.7	83.8	3.37	42.7	0.03			522	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 80 51					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 27.0 N	120 31.2 W	25/05/81	0525 GMT	71 M	290	30 KT	300 2 3	0	1011.0 MB	13.6 C	13.0 C		0/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.10	14.10	33.633	25.111	284.3	0.000	7.02	120.1							0	
2	14.10	14.10	33.633H	25.111	284.3	0.006	7.02	120.1	2.0	0.37	0.8	0.01	1.16	0.08	2	
10 ISL	14.05	14.05	33.639	25.127	283.0	0.028	6.91	118.2							10	
11	14.04	14.04	33.640	25.129	282.8	0.031	6.90	117.9	2.2	0.44	0.9	0.02			11	
19	12.07	12.07	33.682	25.553	242.6	0.052	4.16	68.3	14.1	1.30	12.2	0.29	4.60	0.60	19	
20 ISL	12.05	12.05	33.681	25.556	242.3	0.055	4.14	67.9							20	
30	11.85	11.85	33.674	25.589	239.6	0.079	3.93	64.2	15.8	1.41	14.3	0.36	3.03	0.80	30	
50	11.29	11.28	33.695	25.708	228.6	0.126	3.45	55.7	19.5	1.62	17.6	0.31	0.93	0.47	50	
60	11.11	11.10	33.701H	25.746	225.3	0.148	3.25	52.2	20.8	1.69	18.8	0.25	0.62	0.37	60	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 80 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 9.3 N	121 8.8 W	25/05/81	1225 GMT	2167 M	340	14 KT	310 5 4	4	1014.2 MB	13.2 C	13.1 C		3/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	13.18	13.18	33.660	25.320	264.4	0.000	6.13	103.0							0	
1	13.18	13.18	33.660H	25.320	264.4	0.003	6.13	103.0	5.8	0.79	6.2	0.21	2.14	0.14	1	
10 ISL	13.20	13.20	33.670	25.323	264.3	0.027	6.14	103.3							10	
20 ISL	13.23	13.23	33.681	25.327	264.2	0.053	6.16	103.6							20	
30 ISL	13.26	13.25	33.693	25.331	264.1	0.079	6.18	103.9							30	
31	13.26	13.26	33.695	25.332	264.1	0.082	6.18	104.0	6.9	0.81	6.7	0.22	3.16	0.17	31	
40	12.87	12.86	33.646	25.371	260.5	0.106	5.95	99.3	8.0	0.91	7.7	0.18	2.47	0.25	40	
49	12.04	12.03	33.570	25.473	251.1	0.129	5.31	87.0	11.7	1.14	10.9	0.19	1.13	0.39	49	
50 ISL	11.98	11.98	33.566	25.482	250.2	0.131	5.27	86.2							50	
68	11.21	11.20	33.602	25.651	234.4	0.175	4.68	75.3	16.2	1.35	15.0	0.15	0.38	0.16	68	
75 ISL	10.83	10.82	33.631	25.744	225.7	0.191	4.28	68.3							75	
93	9.96	9.95	33.745	25.981	203.5	0.229	3.28	51.4	23.8	1.77	22.1	0.02	0.11	0.22	93	
100 ISL	9.81	9.80	33.798	26.050	197.1	0.243	3.04	47.5							100	
116	9.57	9.56	33.907	26.173	185.7	0.274	2.70	42.0	29.2	1.99	24.9	0.02	0.07	0.20	116	
125 ISL	9.35	9.33	33.912	26.215	181.8	0.291	2.72	42.1							125	
142	8.98	8.96	33.919	26.277	176.2	0.321	2.75	42.2	30.9	1.98	25.8	0.01	0.07	0.15	143	
150 ISL	8.94	8.93	33.952	26.312	173.1	0.335	2.62	40.2							151	
166	8.90	8.88	34.032	26.379	167.0	0.362	2.33	35.7	34.5	2.11	27.4	0.01	0.03	0.15	167	
200 ISL	8.33	8.31	34.072	26.502	155.8	0.417	2.22	33.5							201	
217	7.98	7.96	34.077	26.555	150.9	0.443	2.16	32.4	42.4	2.24	30.1	0.01	0.02	0.12	218	
250 ISL	7.57	7.55	34.102	26.638	143.5	0.492	1.85	27.5							252	
300 ISL	7.10	7.07	34.145	26.739	134.4	0.562	1.31	19.3							302	
309	7.03	7.00	34.157H	26.755	133.1	0.574	1.21	17.4	58.2	2.70	35.1	0.01			311	
400 ISL	6.31	6.27	34.228	26.913	119.0	0.691	0.85	12.2							403	
500 ISL	5.76	5.71	34.301	27.041	107.7	0.807	0.45	6.4							504	
549	5.58	5.53	34.338H	27.087	103.7	0.858	0.25	3.6	87.3	3.19	40.9	0.01			553	



RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 80 70		
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 48.9 N	121 50.8 W	25/05/81	2030 GMT	3632 M	310	16 KT	310 2 4	2	1015.1 MB	14.5 C	15.0 C	8/8	AS		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.95	13.95	33.455	25.004	294.4	0.000	6.26	106.7							0
2	13.95 H	13.95	33.455	25.004	294.4	0.006	6.26	106.7	0.4	0.57	1.8	0.17	1.66	0.15	2
10 ISL	13.93	13.93	33.459	25.011	294.0	0.029	6.33	107.9							10
12	13.93	13.93	33.460	25.013	293.9	0.035	6.34	108.0	0.4	0.57	1.9	0.19	1.01	0.08	12
20 ISL	13.85	13.85	33.467	25.035	292.0	0.059	6.32	107.5							20
25	13.80	13.80	33.478	25.054	290.4	0.073	6.31	107.2	0.4	0.57	1.9	0.17	1.29	0.17	25
30 ISL	13.78	13.77	33.493	25.070	288.9	0.088	6.27	106.5							30
32	13.77	13.77	33.505	25.081	288.0	0.094	6.25	106.2	0.3	0.60	2.0	0.18	1.44	0.21	32
50 ISL	12.56	12.55	33.592	25.392	258.7	0.143	5.80	96.1							50
51	12.47	12.46	33.598	25.412	256.8	0.145	5.77	95.4	9.4	1.15	8.5	0.31	0.62	0.23	51
75 ISL	11.43	11.42	33.601	25.612	238.4	0.205	4.98	80.6							75
77	11.35	11.34	33.603	25.627	237.0	0.209	4.89	79.0	16.2	1.40	14.5	0.33	0.32	0.20	77
100 ISL	9.99	9.97	33.721	25.960	205.7	0.260	3.18	49.8							100
101	9.93	9.92	33.730	25.974	204.3	0.262	3.11	48.7	24.1	1.83	22.2	0.06	0.13	0.17	101
124	9.29	9.28	33.836	26.163	186.8	0.307	2.94	45.4	28.1	1.95	24.6	0.02	0.07	0.14	124
125 ISL	9.27	9.25	33.838	26.171	186.0	0.309	2.93	45.3							125
150	8.73	8.71	33.961	26.350	169.4	0.354	2.68	40.9	33.7	2.09	27.3	0.01	0.02	0.08	151
200 ISL	8.19	8.17	34.164	26.596	146.9	0.433	1.19	18.0							201
201	8.18	8.16	34.171	26.599	146.5	0.434	1.16	17.5	55.8	2.72	34.5	0.01	0.02	0.05	202
250 ISL	7.71	7.69	34.199	26.694	138.2	0.506	1.65	24.7							252
300 ISL	7.28	7.25	34.170	26.735	135.0	0.574	2.16	31.9							302
303	7.25	7.22	34.171H	26.735	135.0	0.578	2.19	32.3	40.7	2.28	29.9	0.01			305
400 ISL	5.44	6.40	34.196	26.871	123.1	0.702	1.39	20.1							403
500 ISL	5.67	5.62	34.256	27.017	109.9	0.819	0.56	7.9							504
530	5.45	5.41	34.286H	27.062	105.7	0.851	0.31	4.4	87.4	3.23	41.2	0.01			534

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 80 80		
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 28.8 N	122 31.7 W	26/05/81	0329 GMT	3959 M	320	17 KT		5	1015.1 MB	15.0 C	15.0 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.98	15.98	33.526	24.619	331.0	0.000									0
1	15.98	15.98	33.526H	24.619	331.0	0.003	5.00U		3.5	0.34	0.7	0.00	0.10	0.02	1
10 ISL	15.97	15.97	33.526	24.622	331.1	0.033									10
11	15.97	15.97	33.526	24.622	331.1	0.036	5.78	102.6	3.4	0.34	0.6	0.00	0.08	0.02	11
20	15.94	15.94	33.527	24.630	330.7	0.066	5.77	102.4	3.3	0.33	0.5	0.00	0.09	0.03	20
30 ISL	15.93	15.93	33.525	24.631	330.8	0.099	5.78	102.5							30
33	15.93	15.92	33.526	24.632	330.9	0.109	5.78	102.5	3.4	0.33	0.4	0.00	0.11	0.00	33
50 ISL	15.00	14.99	33.460	24.789	316.4	0.164	5.88	102.3							50
52	14.85	14.84	33.454	24.815	313.9	0.170	5.88	102.0	3.5	0.36	0.3	0.00	0.24	0.09	52
75 ISL	13.21	13.20	33.429	25.139	283.5	0.239	5.53	92.8							75
76	13.13	13.12	33.432	25.155	282.0	0.242	5.51	92.3	5.9	0.60	3.3	0.03	0.25	0.15	76
100 ISL	11.42	11.40	33.479	25.521	247.6	0.306	5.02	81.2							100
101	11.35	11.34	33.486	25.536	246.2	0.308	5.00	80.7	10.9	0.94	9.4	0.01	0.11	0.11	101
125	10.03	10.02	33.610	25.864	215.3	0.363	4.40	69.0	17.2	1.34	16.2	0.00	0.03	0.05	125
150	9.30	9.28	33.716	26.068	196.3	0.415	3.69	57.0	24.2	1.68	21.5	0.01	0.01	0.03	151
200	8.33	8.31	33.937	26.393	166.1	0.505	3.47	52.5	32.8	1.86	25.0	0.00	0.02	0.03	201
250 ISL	7.56	7.53	34.005	26.564	150.4	0.586	3.03	45.0							252
300 ISL	6.92	6.90	34.017	26.663	141.5	0.659	2.51	36.8							302
303	6.89	6.86	34.021	26.667	141.2	0.664	2.48	36.3	50.1	2.31	31.6	0.01			305
400 ISL	5.95	5.92	34.095	26.853	124.4	0.797	1.61	23.1							403
500 ISL	5.40	5.36	34.160	26.973	113.8	0.917	0.78	11.1							504
522	5.34	5.30	34.178H	26.989	112.3	0.941	0.61	8.6	84.2	3.11	41.3	0.02			526

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 80 90		
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 9.0 N	123 13.3 W	26/05/81	1041 GMT	4218 M	320	13 KT		4	1015.5 MB	15.2 C	15.3 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	S103	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.08	16.08	33.467	24.551	337.5	0.000	5.73	101.9							0
2	16.08	16.08	33.467H	24.551	337.5	0.007	5.73	101.9	3.4	0.33	0.4	0.00	0.05	0.02	2
10 ISL	16.08	16.08	33.466	24.552	337.8	0.034	5.74	102.1							10
11	16.08	16.08	33.467	24.552	337.8	0.037	5.74	102.1	3.4	0.33	0.3	0.01	0.06	0.02	11
20	16.08	16.08	33.468	24.553	338.0	0.068	5.76	102.4	3.4	0.33	0.2	0.01	0.06	0.01	20
30 ISL	16.06	16.06	33.472	24.561	337.6	0.101	5.77	102.6							30
32	16.06	16.05	33.475	24.563	337.4	0.108	5.77	102.6	3.4	0.32	0.1	0.01	0.07	0.01	32
50	16.00	15.99	33.492	24.590	335.3	0.169	5.76	102.3	3.5	0.32	0.1	0.01	0.08	0.02	50
74	15.38	15.37	33.399	24.658	329.6	0.248	5.90	103.4	3.5	0.34	0.1	0.01	0.14	0.04	74
75 ISL	15.36	15.35	33.393	24.660	329.4	0.252	5.89	103.3							75
99	14.60	14.59	33.386	24.818	315.1	0.329	5.77	99.6	3.6	0.41	0.0	0.01	0.34	0.21	99
100 ISL	14.53	14.52	33.388	24.836	313.3	0.332	5.75	99.1							100
125	12.66	12.64	33.560	25.348	265.0	0.404	5.21	86.5	7.8	0.72	5.5	0.03	0.10	0.12	125
150	11.14	11.12	33.617	25.677	233.9	0.467	4.70	75.5	12.5	1.04	11.4	0.02	0.07	0.08	151
200 ISL	8.84	8.81	33.827	26.232	181.5	0.571	3.41	52.1							201
201	8.80	8.78	33.836	26.242	180.7	0.572	3.38	51.6	28.9	1.80	23.9	0.02	0.01	0.02	202
250 ISL	8.21	8.19	34.024	26.483	166.8	0.659	2.80	42.2							252
300 ISL	7.61	7.58	34.065	26.605	152.6	0.738	2.45	36.5							302
322	7.35	7.32	34.040H	26.618	146.4	0.770	2.38	35.2	46.4	2.27	30.8	0.01			324
400 ISL	6.55	6.51	34.120	26.796	130.2	0.882	1.73	25.1							403
500 ISL	5.67	5.63	34.172	26.950	116.2	1.007	0.88	12.6							504
532	5.43	5.39	34.181H	26.981	113.3	1.043	0.61	8.6	82.8	3.07	40.7	0.01			536

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 80 100			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 49.1 N	123 54.5 W	26/05/81	1651 GMT	4451 M	350	12 KT	320 2 3	2	1016.2 MB	17.6 C	15.6 C	8/8	SC			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	16.43	16.43	33.503	24.499	342.5	0.000	5.78	103.5							0	
1	16.43	16.43	33.503H	24.499	342.5	0.003	5.78	103.5							1	
10 ISL	16.38	16.37	33.503	24.513	341.5	0.034	5.75	102.9	2.9	0.28	0.0	0.00	0.06	0.02	10	
11	16.37	16.37	33.504	24.514	341.4	0.038	5.75	102.9	2.8	0.30	0.0	0.00	0.06	0.01	11	
20	16.33	16.33	33.507	24.526	340.6	0.068	5.75	102.8	2.9	0.30	0.0	0.00	0.07	0.01	20	
30	16.31	16.31	33.508	24.531	340.4	0.102	5.75	102.7	2.8	0.30	0.1	0.00	0.07	0.02	30	
50	16.22	16.21	33.505	24.551	339.2	0.170	5.81	103.6	2.7	0.32	0.1	0.00	0.10	0.03	50	
75	15.81	15.80	33.492	24.634	332.0	0.254	5.82	103.0	2.8	0.30	0.1	0.00	0.16	0.04	75	
99	14.28	14.27	33.419	24.911	306.2	0.331	5.83	100.0	4.2	0.46	0.7	0.00	0.42	0.21	99	
100 ISL	14.18	14.16	33.412	24.930	304.4	0.334	5.81	99.4							100	
125	11.63	11.61	33.408	25.425	257.4	0.404	5.10	82.7	9.6	0.88	8.3	0.00	0.14	0.12	125	
150 ISL	10.21	10.19	33.532	25.777	224.2	0.464	4.41	69.3							151	
160	9.84	9.82	33.600	25.889	215.6	0.486	4.15	64.8	19.1	1.47	17.7	0.00	0.02	0.03	161	
200 ISL	8.80	8.78	33.832	26.241	180.7	0.566	3.42	52.2							201	
210	8.64	8.62	33.888	26.307	174.5	0.584	3.27	49.8	21.6	1.85	24.9	0.01	0.03	0.01	211	
250 ISL	7.96	7.94	33.986	26.490	157.6	0.652	2.73	41.0							252	
300 ISL	7.30	7.27	34.053	26.639	144.0	0.729	2.17	32.1							302	
332	6.98	6.95	34.064H	26.688	139.6	0.775	1.88	27.6	53.6	2.50	33.5	0.01			334	
400 ISL	6.32	6.29	34.138	26.840	125.9	0.869	1.27	18.4							403	
500 ISL	5.70	5.66	34.219	26.983	115.1	0.991	0.59	8.4							504	
532	5.59	5.54	34.241H	27.009	110.9	1.026	0.43	6.1	84.4	3.13	40.8	0.01			536	

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 82 46			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 16.2 N	119 56.4 W	25/05/81	0018 GMT	528 M	260	15 KT	260 2 6	1	1011.2 MB	15.8 C	15.0 C	7/8	AS			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.54	15.54	33.693	24.846	309.4	0.000	7.67	135.2							0	
1	15.54	15.54	33.693H	24.846	309.4	0.003	7.67	135.2	2.2	0.26	0.4	0.03	2.11	0.16	1	
10 ISL	13.98	13.98	33.707	25.193	276.7	0.029	7.13	121.8							10	
14	13.32	13.32	33.722	25.340	262.8	0.040	6.89	116.1	3.9	0.55	0.9	0.05	14.99	0.78	14	
20 ISL	12.35	12.35	33.752	25.554	242.6	0.055	5.32	87.8							20	
21	12.21	12.21	33.758	25.586	239.6	0.058	5.05	83.1	14.5	1.15	9.4	0.19	7.08	1.78	21	
30 ISL	11.45	11.45	33.784	25.749	224.3	0.079	3.98	64.6							30	
33	11.28	11.28	33.793	25.786	220.8	0.085	3.80	61.3	20.6	1.53	16.4	0.22	2.08	1.33	33	
50 ISL	10.07	10.06	33.920	26.099	191.3	0.120	2.56	40.3							50	
53	9.90	9.89	33.944	26.146	187.0	0.126	2.42	37.9	29.4	2.05	24.5	0.08	0.10	0.36	53	
75 ISL	9.66	9.65	33.979	26.214	180.9	0.167	2.36	36.8							75	
76	9.65	9.64	33.982	26.217	180.6	0.169	2.36	36.8	31.9	2.12	25.6	0.13	0.05	0.28	76	
99	9.51	9.50	33.999	26.254	177.7	0.210	2.25	35.0	33.2	2.16	26.3	0.11	0.06	0.27	99	
100 ISL	9.50	9.49	33.999	26.257	177.4	0.212	2.25	34.9							100	
124	9.38	9.37	34.070	26.331	170.9	0.253	2.20	34.1	33.9	2.20	26.6	0.06	0.02	0.11	124	
125 ISL	9.37	9.36	34.069	26.333	170.7	0.255	2.19	34.0							125	
150	9.21	9.19	34.097	26.380	166.7	0.297	1.98	30.6	36.2	2.28	27.9	0.08	0.03	0.16	151	
200 ISL	8.79	8.77	34.142	26.487	157.5	0.378	1.62	24.8							201	
202	8.77	8.75	34.148	26.491	157.1	0.381	1.61	24.6	41.9	2.43	29.7	0.04	0.04	0.14	203	
250 ISL	8.40	8.37	34.166	26.567	150.6	0.455	1.30	19.7							252	
300 ISL	8.02	7.99	34.180	26.636	144.8	0.529	1.01	15.2							302	
304	7.99	7.96	34.186H	26.641	144.4	0.535	0.99	14.9	54.1	2.74	32.9	0.03			306	
400 ISL	7.26	7.22	34.213	26.773	133.0	0.669	0.54	8.0							403	
500 ISL	6.50	6.46	34.244	26.902	121.6	0.796	0.21	3.0							504	
511	6.42	6.37	34.255H	26.916	120.4	0.809	0.18	2.6	92.0	3.41	32.0	0.03			515	

RV NEW HORIZON			CALCOFI CRUISE 8105										STATION 83 42			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
34 10.7 N	119 30.5 W	24/05/81	1230 GMT	121 M	150	04 KT	280 2 4	2	1015.1 MB	16.8 C	15.0 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.84	15.84	33.624	24.726	320.9	0.000	6.58	116.6							0	
3	15.84	15.84	33.624H	24.726	320.9	0.010	6.58	116.6	1.5	0.34	0.5	0.03	2.95	0.24	3	
10 ISL	15.46	15.46	33.581	24.778	316.3	0.032	6.57	115.6							10	
20 ISL	14.93	14.93	33.575	24.890	305.8	0.063	6.57	114.2							20	
28	14.51	14.51	33.619	25.014	294.2	0.087	6.56	113.2	2.3	0.39	0.3	0.03	4.17	0.57	28	
30 ISL	14.46	14.45	33.648	25.049	291.0	0.092	6.37	109.7							30	
37	14.04	14.03	33.717	25.189	277.9	0.112	5.55	94.9	7.8	0.71	2.9	0.13	4.32	0.80	37	
45	12.63	12.62	33.612	25.392	258.7	0.134	4.52	75.0	10.0	1.16	8.7	0.31	3.86	1.01	45	
50 ISL	11.80	11.79	33.620	25.558	242.9	0.146	4.04	65.8							50	
59	10.59	10.58	33.711	25.846	215.7	0.167	3.41	54.2	21.6	1.67	19.9	0.07	0.21	0.22	59	
73	9.77	9.76	33.866	26.107	191.1	0.195	2.93	45.8	26.7	1.94	23.1	0.06	0.11	0.11	73	
75 ISL	9.77	9.77	33.873	26.114	190.5	0.199	2.86	44.7							75	
89	9.80	9.79	33.942	26.161	186.3	0.226	2.63	41.1	28.5	2.04	24.4	0.07	0.10	0.16	89	
94	9.79	9.78	33.943	26.164	186.1	0.235	2.70	42.2	28.6	2.04	24.1	0.07	0.10	0.13	94	
100 ISL	9.78	9.77	33.942	26.167	185.9	0.246	2.66	41.6							100	
112	9.76	9.75	33.951	26.176	185.4	0.268	2.59	40.5	29.2	2.06	24.6	0.07	0.08	0.13	112	



RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 83 55					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
33 44.7 N	120 24.6 W	24/05/81	0138 GMT	1005 M	320	27 KT	330 6 7	1	1012.8 MB	13.7 C	13.0 C	8/8		ST		
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SI03 UM/L	P04 UM/L	N03 UM/L	N02 UM/L	CHL A UG/L	PHAEO UG/L	PRESS D_BAR	
0 ISL	13.39	13.39	33.677	25.291	267.2	0.000	5.93	100.0							0	
1	13.39	13.39	33.677H	25.291	267.2	0.003	5.93	100.0	8.6	0.76	5.2	0.10	6.38	0.98	1	
10	13.40	13.40	33.676	25.288	267.6	0.027	5.94	100.2	8.6	0.79	5.4	0.10	5.71	1.13	10	
18	13.13	13.13	33.686	25.350	262.0	0.048	5.64	94.6	10.4	0.89	6.9	0.13	3.92	1.34	18	
20 ISL	12.98	12.98	33.690	25.383	258.9	0.053	5.50	91.9							20	
30 ISL	12.14	12.13	33.709	25.563	242.0	0.078	4.76	78.3							30	
33	11.85	11.85	33.716	25.621	236.5	0.085	4.54	74.2	17.4	1.40	14.3	0.32	0.68	0.77	33	
50 ISL	10.68	10.67	33.695	25.819	218.0	0.124	4.03	64.2							50	
51	10.62	10.61	33.696	25.829	217.1	0.126	4.01	63.8	20.0	1.64	18.8	0.14	0.12	0.18	51	
74	9.89	9.88	33.850	26.074	194.2	0.173	2.86	44.8	26.4	1.97	23.8	0.01	0.06	0.12	74	
75 ISL	9.87	9.87	33.853	26.081	193.6	0.175	2.83	44.4							75	
99	9.62	9.61	33.958	26.204	182.4	0.221	2.44	38.0	30.3	2.13	25.7	0.00	0.04	0.10	99	
100 ISL	9.61	9.60	33.960	26.209	182.0	0.222	2.43	37.8							100	
122	9.33	9.32	34.031	26.309	172.9	0.261	2.16	33.4	33.4	2.25	27.5	0.00	0.02	0.10	122	
125 ISL	9.30	9.28	34.033	26.318	172.1	0.267	2.14	33.2							125	
147	9.06	9.04	34.062	26.377	166.9	0.304	2.04	31.4	35.9	2.32	28.6	0.00	0.02	0.08	147	
150 ISL	9.02	9.01	34.065	26.388	165.9	0.309	2.01	30.9							151	
199	8.42	8.40	34.167	26.560	150.4	0.386	1.48	22.5	44.7	2.58	31.6	0.00	0.01	0.06	200	
200 ISL	8.41	8.39	34.164	26.562	150.2	0.388	1.47	22.3							201	
250 ISL	7.94	7.91	34.206	26.667	140.9	0.461	1.14	17.0							252	
300 ISL	7.53	7.51	34.223	26.740	134.7	0.530	0.91	13.5							302	
302	7.52	7.49	34.228H	26.742	134.5	0.533	0.90	13.4	56.1	2.88	35.1	0.00			304	
400 ISL	6.79	6.75	34.265	26.879	122.7	0.661	0.55	8.1							403	
500 ISL	6.17	6.12	34.290	26.982	113.8	0.780	0.40	5.8							504	
518	6.07	6.02	34.300H	26.997	112.5	0.800	0.40	5.7	79.4	3.25	40.1	0.00			522	

RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 83 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
33 34.8 N	120 45.2 W	23/05/81	2057 GMT	1433 M												
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	OXYGEN ML/L	OXY PCT	SI03 UM/L	P04 UM/L	N03 UM/L	N02 UM/L	CHL A UG/L	PHAEO UG/L	PRESS D_BAR	
0 ISL	13.59	13.59	33.588	25.181	277.6	0.000	6.30	106.7							0	
2	13.59	13.59	33.588H	25.181	277.6	0.006	6.30	106.7	3.0	0.68	4.4	0.02	2.18	0.23	2	
10 ISL	13.56	13.56	33.593	25.191	276.9	0.028	6.29	106.5							10	
11	13.56	13.56	33.594	25.192	276.8	0.030	6.29	106.4	3.0	0.69	4.6	0.02	2.59	0.25	11	
20 ISL	13.52	13.52	33.595	25.202	276.1	0.055	6.23	105.3							20	
24	13.49	13.49	33.598	25.210	275.5	0.066	6.19	104.6	3.5	0.73	5.0	0.02	2.23	0.29	24	
30 ISL	13.43	13.43	33.610	25.232	273.5	0.083	6.15	103.7							30	
35	13.35	13.35	33.625	25.259	271.1	0.096	6.10	102.8	4.9	0.81	5.7	0.02	1.87	0.29	35	
50 ISL	12.87	12.87	33.683	25.401	258.0	0.136	5.87	97.9							50	
53	12.72	12.71	33.691	25.436	254.7	0.144	5.79	96.3	12.5	1.17	9.3	0.28	0.29	0.09	53	
75 ISL	10.60	10.59	33.530	25.705	229.4	0.197	4.61	73.1							75	
78	10.30	10.29	33.515	25.743	225.8	0.204	4.44	70.0	15.9	1.37	15.4	0.09	0.07	0.10	78	
100 ISL	9.44	9.43	33.642	25.988	202.9	0.251	4.05	62.7							100	
102	9.40	9.39	33.661	26.008	201.1	0.255	4.03	62.3	21.4	1.60	19.9	0.01	0.02	0.06	102	
123	9.04	9.03	33.788	26.165	186.5	0.296	3.46	53.1	26.4	1.83	23.5	0.00	0.02	0.04	123	
125 ISL	9.02	9.01	33.794	26.175	185.5	0.299	3.42	52.6							125	
150 ISL	8.78	8.77	33.875	26.276	176.4	0.345	3.09	47.3							151	
153	8.76	8.74	33.885	26.285	175.6	0.350	3.07	46.9	37.9	2.13	28.4	0.00	0.01	0.04	154	
200 ISL	8.11	8.09	33.985	26.467	159.0	0.429	2.84	42.8							201	
207	8.00	7.98	34.000	26.492	156.7	0.440	2.82	42.3	37.9	2.15	28.6	0.00	0.02	0.04	208	
250 ISL	7.39	7.37	34.041	26.616	145.4	0.505	2.32	34.3							252	
300 ISL	6.76	6.74	34.078	26.732	134.9	0.576	1.67	24.3							302	
309	6.66	6.63	34.087H	26.750	133.3	0.588	1.54	22.4	58.1	2.70	35.4	0.00			311	
400 ISL	6.30	6.27	34.227	26.912	118.8	0.707	0.78	11.3							403	
500 ISL	5.91	5.87	34.296	27.019	110.0	0.823	0.36	5.2							504	
529	5.80	5.75	34.306H	27.035	108.7	0.854	0.32	4.6	82.3	3.27	40.9	0.00			533	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 70						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
33 15.2 N	121 25.8 W	23/05/81	1355 GMT	4145 M	330	32 KT	330 12 6	1	1015.6 MB	13.9 C	13.1 C	9/8		CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	13.51	13.51	33.582	25.193	276.5	0.000	6.05	102.3							0	
1	13.51	13.51	33.582H	25.193	276.5	0.003	6.05	102.3	3.6	0.70	4.3	0.19	1.29	0.46	1	
10 ISL	13.51	13.51	33.586	25.196	276.4	0.028	6.10	103.0							10	
20 ISL	13.52	13.51	33.590	25.199	276.4	0.055	6.13	103.6							20	
30 ISL	13.52	13.52	33.595	25.202	276.4	0.083	6.14	103.8							30	
31	13.52	13.52	33.596	25.202	276.4	0.086	6.14	103.8	3.8	0.71	4.6	0.21	1.19	0.37	31	
42	13.51	13.50	33.589	25.199	277.0	0.116	6.13	103.6	4.5	0.73	5.0	0.21	1.32	0.37	42	
50 ISL	13.50	13.49	33.600	25.211	276.1	0.138	6.12	103.4							50	
51	13.50	13.49	33.604	25.213	275.9	0.141	6.12	103.4	4.8	0.74	5.2	0.22	1.36	0.36	51	
68	13.02	13.01	33.563	25.278	270.1	0.187	5.78	96.7	7.2	0.81	6.1	0.26	0.89	0.25	68	
75 ISL	12.42	12.41	33.545	25.383	260.2	0.206	5.43	89.7							75	
92	10.87	10.86	33.557	25.677	232.5	0.248	4.50	71.9	14.6	1.25	14.4	0.04	0.08	0.11	92	
100 ISL	10.52	10.51	33.592	25.768	224.0	0.266	4.22	67.0							100	
121	9.88	9.87	33.716	25.972	204.9	0.311	3.63	56.8	21.7	1.66	20.5	0.00	0.03	0.10	121	
125 ISL	9.71	9.69	33.733	26.017	200.8	0.319	3.50	54.6							125	
134	9.34	9.33	33.780	26.111	191.9	0.337	3.23	49.9	26.5	1.83	23.9	0.01	0.02	0.06	135	
150 ISL	8.98	8.96	33.839	26.218	182.0	0.367	3.15	48.3							151	
172	8.70	8.68	33.908	26.313	173.3	0.406			30.9	1.94	25.7	0.00	0.01	0.04	175	
200 ISL	8.36	8.34	33.972	26.420	163.6	0.454	2.90	43.8							201	
221	8.12	8.10	34.013	26.484	157.7	0.487	2.79	42.0	37.0	2.08	28.1	0.00	0.01	0.04	222	
250 ISL	7.71	7.68	34.027	26.559	150.9	0.532	2.56	38.3							252	
300 ISL	7.00	6.97	34.035	26.666	141.2	0.606	2.15	31.5							302	
308	6.89	6.86	34.039H	26.681	139.9	0.617	2.08	30.4	52.0	2.45	33.0	0.00			310	
400 ISL	5.93	5.90	34.087	26.848	124.7	0.741	1.40	20.1							403	
500 ISL	5.30	5.25	34.159	26.984	112.6	0.862	0.75	10.6							504	
539	5.16	5.12	34.195H	27.024	109.1	0.904	0.52	7.3	87.7	3.17	41.4	0.00			543	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 80						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 54.6 N	122 7.4 W	23/05/81	0708 GMT	4200 M	330	28 KT	330 5 6	1	1017.0 MB	14.5 C	13.5 C	1/8		CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.31	14.31	33.493	24.958	298.8	0.000									0	
1	14.31	14.31	33.493H	24.958	298.8	0.003			1.9	0.45	1.6	0.06	0.88	0.16	1	
10 ISL	14.30	14.30	33.490	24.958	299.0	0.030									10	
11	14.30	14.30	33.490	24.958	299.0	0.033	6.23	107.0	1.8	0.44	1.4	0.07	0.76	0.09	11	
20 ISL	14.28	14.28	33.486	24.960	299.2	0.060	6.24	107.0							20	
23	14.28	14.28	33.486	24.960	299.3	0.069	6.24	107.1	1.8	0.45	1.3	0.08	0.96	0.14	23	
30 ISL	14.21	14.21	33.474	24.966	298.8	0.090	6.26	107.2							30	
32	14.19	14.19	33.472	24.968	298.7	0.096	6.26	107.2	1.2	0.46	1.3	0.12	0.93	0.17	32	
50	12.81	12.80	33.481	25.256	271.8	0.147	6.65	110.7		0.53	4.1	0.24	4.15	0.84	50	
74	12.09	12.08	33.598	25.485	250.5	0.210	5.81	95.3	9.9	1.17	10.2	0.32	0.84	0.35	74	
75 ISL	12.04	12.03	33.593	25.493	249.7	0.212	5.76	94.3							75	
100	10.61	10.60	33.538	25.708	229.7	0.272	4.40	69.9	18.0	1.45	17.1	0.04	0.28	0.19	100	
125 ISL	9.49	9.47	33.690	26.019	200.5	0.326	3.58	55.5							125	
126	9.45	9.44	33.701	26.031	199.3	0.328	3.56	55.1	24.4	1.71	21.7	0.00	0.04	0.09	126	
150 ISL	8.96	8.94	33.834	26.218	182.0	0.374	3.24	49.6							151	
152	8.93	8.91	33.847	26.229	180.9	0.377	3.22	49.3	28.9	1.88	24.6	0.01	0.02	0.09	153	
200	8.42	8.40	33.963	26.400	165.5	0.460	2.86	43.3	35.3	2.06	27.1	0.00	0.04	0.06	201	
250 ISL	7.73	7.71	34.009	26.542	152.6	0.540	2.52	37.7							252	
300 ISL	7.03	7.00	34.033	26.661	141.8	0.614	2.20	32.3							302	
305	6.96	6.93	34.039H	26.671	140.8	0.621	2.17	31.8	52.7	2.43	32.8	0.00			307	
400 ISL	5.94	5.90	34.102	26.860	123.7	0.751	1.52	21.8							403	
500 ISL	5.17	5.13	34.160	26.999	111.0	0.870	0.81	11.4							504	
539	4.96	4.92	34.183H	27.037	107.5	0.912	0.53	7.4	91.9	3.15	42.0	0.00			543	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 90						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 34.7 N	122 48.6 W	23/05/81	0024 GMT	4155 M	340	25 KT	330 4 6	1	1017.5 MB	16.1 C	14.3 C	3/8		CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.73	15.73	33.447	24.615	331.5	0.000	5.84	103.1							0	
2	15.73	15.73	33.447H	24.615	331.5	0.007	5.84	103.1	3.8	0.36	0.4	0.00	0.08	0.01	2	
10	15.73	15.73	33.447	24.615	331.7	0.033	5.84	103.1	3.7	0.35	0.1	0.00	0.07	0.02	10	
20 ISL	15.73	15.73	33.443	24.614	332.2	0.066	5.86	103.4							20	
23	15.73	15.73	33.444	24.613	332.3	0.076	5.86	103.5	3.6	0.35	0.1	0.00	0.07	0.01	23	
30 ISL	15.73	15.73	33.447	24.617	332.2	0.100	5.86	103.5							30	
33	15.73	15.72	33.451	24.619	332.1	0.110	5.86	103.5	3.4	0.36	0.1	0.00	0.09	0.02	33	
50 ISL	15.75	15.74	33.468	24.631	331.5	0.166	5.84	103.2							50	
52	15.75	15.74	33.473	24.632	331.4	0.173	5.84	103.2	3.3	0.34	0.0	0.00	0.10	0.02	52	
75 ISL	15.79	15.77	33.503	24.651	330.4	0.249	5.82	103.0							75	
78	15.79	15.78	33.511	24.653	330.3	0.259	5.82	102.9	3.3	0.32	0.0	0.00	0.16	0.04	78	
100	14.54	14.53	33.658	25.040	293.9	0.327	5.66	97.7	4.2	0.41	0.4	0.06	0.30	0.20	100	
125 ISL	12.18	12.17	33.551	25.435	256.5	0.396	5.06	83.1							125	
128	11.90	11.88	33.543	25.480	252.3	0.404	4.98	81.3	10.0	0.89	8.2	0.00	0.12	0.12	129	
150 ISL	10.62	10.60	33.636	25.787	223.3	0.456	4.65	73.8							151	
154	10.44	10.42	33.664	25.837	218.6	0.465	4.59	72.7	14.9	1.17	13.7	0.00	0.04	0.03	155	
200 ISL	9.02	9.00	33.803	26.185	186.1	0.558	3.64	55.9							201	
206	8.90	8.88	33.820	26.214	183.4	0.569	3.52	53.9	27.7	1.76	23.1	0.00	0.00	0.01	207	
250 ISL	8.12	8.09	33.923	26.418	164.5	0.647	2.99	45.0							252	
300 ISL	7.51	7.48	34.019	26.583	149.4	0.726	2.56	38.0							302	
308	7.44	7.41	34.037H	26.603	147.6	0.738	2.51	37.2	45.6	2.26	30.6	0.00			310	
400 ISL	6.46	6.42	34.160	26.839	126.1	0.871	1.66	24.1							403	
500 ISL	5.75	5.71	34.213	26.972	114.3	0.996	0.81	11.5							504	
534	5.60	5.55	34.215H	26.988	113.0	1.033	0.53	7.5	82.7	3.09	40.8	0.00			538	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 100						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 14.6 N	123 29.5 W	22/05/81	1718 GMT	4309 M	350	27 KT	330 5 4	1	1020.3 MB	16.1 C	13.2 C	4/8		CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.71	15.71	33.417	24.596	333.3	0.000	5.70	100.6							0	
2	15.71	15.71	33.417H	24.596	333.3	0.007	5.70	100.6	2.9	0.34	0.0	0.00	0.05	0.01	2	
10 ISL	15.70	15.70	33.415	24.597	333.4	0.033	5.75	101.4							10	
20 ISL	15.70	15.70	33.414	24.597	333.7	0.067	5.80	102.4							20	
21	15.70	15.70	33.415	24.597	333.7	0.070	5.81	102.5	2.9	0.34	0.0	0.00	0.05	0.02	21	
30 ISL	15.70	15.70	33.412	24.596	334.1	0.100	5.74	101.4							30	
31	15.70	15.70	33.413	24.596	334.2	0.103	5.74	101.3	2.8	0.34	0.0	0.00	0.05	0.01	31	
41	15.52	15.51	33.410	24.634	330.9	0.137	5.86	103.0	2.7	0.33	0.0	0.00	0.05	0.02	41	
50 ISL	15.45	15.45	33.409	24.650	329.6	0.166	5.78	101.5							50	
62	15.36	15.35	33.407	24.668	328.3	0.206	5.63	98.7	2.6	0.33	0.0	0.00	0.09	0.04	62	
75 ISL	15.05	15.04	33.370	24.709	324.7	0.248	5.72	99.7							75	
87	14.74	14.73	33.345	24.756	320.6	0.287	5.85	101.2	3.0	0.36	0.0	0.00	0.23	0.16	87	
100 ISL	14.56	14.54	33.345	24.798	316.9	0.328	5.85	100.8							100	
114	14.30	14.28	33.368	24.867	310.7	0.372	5.85	100.3	3.3	0.44	0.2	0.07	0.18	0.07	114	
125 ISL	13.93	13.92	33.384	24.960	302.2	0.406	5.79	98.6							125	
139	13.25	13.23	33.415	25.120	287.2	0.447	5.63	94.5	4.8	0.63	1.9	0.16	0.11	0.07	140	
150 ISL	12.35	12.33	33.420	25.304	269.7	0.477	5.38	88.6							151	
169	10.76	10.74	33.474	25.634	238.4	0.526	4.87	77.5	12.0	1.07	11.2	0.01	0.04	0.05	170	
200 ISL	9.50	9.48	33.653	25.990	204.8	0.595	4.21	65.3							201	
219	9.08	9.06	33.775	26.150	189.8	0.633	3.85	59.2	24.1	1.66	20.7	0.00	0.01	0.01	220	
250 ISL	8.43	8.41	33.887	26.343	171.9	0.690	3.32	50.3							252	
300 ISL	7.67	7.64	34.016	26.558	152.0	0.773	2.57	38.3							302	
320	7.47	7.44	34.052H	26.611	147.1	0.805	2.31	34.3	45.4	2.32	30.8	0.00			322	
400 ISL	6.57	6.53	34.185	26.845	133.9	0.920	1.38	20.1							403	
500 ISL	5.90	5.85	34.239	26.976	117.3	1.043	0.59	8.4							504	
521	5.82	5.77	34.240H	26.980	113.8	1.065	0.47	6.7	79.6	3.15	40.2	0.00			525	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 35						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
33 49.2 N	118 37.8 W	20/05/81	0922 GMT	811 M	000	22 KT	260 7 3	1	1011.0 MB	14.8 C	10.8 C	1/8		CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	17.65	17.65	33.623	24.303	361.1	0.000	5.80	106.4							0	
1	17.65	17.65	33.623H	24.303	361.1	0.004	5.80	106.4	2.1	0.30	0.3	0.00	0.24	0.06	1	
10 ISL	17.50	17.50	33.618	24.335	358.4	0.037	5.85	107.0							10	
19	17.36	17.36	33.613	24.366	355.8	0.068	5.90	107.6	2.3	0.32	0.2	0.00	0.28	0.08	19	
20 ISL	16.87	16.87	33.595	24.468	346.1	0.071	5.86	105.8							20	
28	13.38	13.38	33.554	25.198	276.7	0.097	5.42	91.3	6.2	0.69	2.2	0.10	1.23	0.19	28	
30 ISL	13.25	13.24	33.553	25.224	274.2	0.102	5.32	89.4							30	
33	13.05	13.05	33.554	25.264	270.5	0.110	5.16	86.4	8.1	0.91	4.9	0.21	0.75	0.29	33	
50 ISL	11.76	11.75	33.608	25.556	243.1	0.154	3.91	63.8							50	
55	11.40	11.39	33.637	25.644	234.9	0.166	3.57	57.7	17.4	1.53	15.7	0.19	0.49	0.28	55	
75 ISL	10.48	10.47	33.742	25.890	211.8	0.211	3.34	52.9							75	
85	10.18	10.17	33.800	25.986	202.9	0.232	3.22	50.7	24.0	1.74	20.9	0.03	0.10	0.11	85	
100 ISL	9.82	9.81	33.882	26.113	191.1	0.261	2.93	45.9							100	
109	9.69	9.68	33.933	26.173	185.6	0.278	2.76	43.0	28.8	1.95	23.8	0.06	0.02	0.08	109	
125 ISL	9.69	9.68	34.010	26.236	180.0	0.307	2.55	39.8							125	
133	9.69	9.67	34.043	26.259	177.9	0.322	2.46	38.4	31.2	2.23	25.1	0.00	0.01	0.06	134	
150 ISL	9.55	9.54	34.091	26.322	172.3	0.352	2.27	35.4							151	
160	9.46	9.44	34.119	26.357	169.2	0.369	2.17	33.7	34.6	2.24	26.7	0.00	0.01	0.05	161	
200 ISL	9.33	9.31	34.207	26.451	161.1	0.435	1.74	27.0							201	
212	9.30	9.28	34.232	26.472	159.3	0.454	1.63	25.2	39.2	2.48	28.7	0.00	0.01	0.04	213	
250 ISL	8.95	8.93	34.249	26.546	152.9	0.513	1.42	21.8							252	
300 ISL	8.40	8.37	34.250	26.635	145.2	0.588	1.24	18.8							302	
303	8.36	8.33	34.255H	26.640	144.8	0.592	1.23	18.6	47.9	2.87	31.6	0.00			305	
400 ISL	7.43	7.39	34.272	26.797	131.0	0.727	0.86	12.7							403	
500 ISL	6.55	6.51	34.294	26.935	118.6	0.853	0.53	7.7							504	
553	6.12	6.07	34.311H	26.999	112.8	0.914	0.38	5.5	79.8	3.20	39.6	0.00			557	

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 39.1 N	118 59.5 W	20/05/81	1535 GMT	492 M	000	26 KT	280 8 3	1	1013.8 MB	14.8 C	12.6 C	5/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	17.10	17.10	33.644	24.451	347.1	0.000	5.60	101.7							0
1	17.10	17.10	33.644H	24.451	347.1	0.003	5.60	101.7	2.3	0.30	0.8	0.00	0.31	0.07	1
10 ISL	14.51	14.51	33.585	24.988	296.2	0.032	5.27	90.9							10
19	12.73	12.73	33.593	25.357	261.3	0.058	4.66	77.5	11.1	0.93	8.2	0.18	0.69	0.25	19
20 ISL	12.59	12.59	33.594	25.386	258.6	0.061	4.54	75.3							20
29	11.71	11.71	33.616	25.570	241.3	0.083	3.66	59.6	16.0	1.30	14.1	0.17	0.56	0.24	29
30 ISL	11.65	11.65	33.617	25.582	240.1	0.086	3.67	59.6							30
38	11.30	11.30	33.639	25.663	232.6	0.105	3.71	59.9	17.4	1.42	15.8	0.13	0.46	0.17	38
50 ISL	10.93	10.93	33.684	25.765	223.2	0.132	3.34	53.4							50
61	10.65	10.64	33.733	25.853	215.1	0.156	2.94	46.8	21.4	1.64	19.4	0.04	0.19	0.14	61
75 ISL	10.18	10.17	33.788	25.978	203.4	0.185	2.97	46.7							75
83	9.92	9.91	33.825	26.050	196.8	0.201	2.98	46.7	25.5	1.82	22.5	0.00	0.05	0.10	83
100 ISL	9.48	9.47	33.911	26.192	183.6	0.234	2.70	41.9							100
108	9.32	9.31	33.955	26.251	178.1	0.248	2.54	39.3	31.1	2.00	25.3	0.00	0.01	0.05	108
125 ISL	9.13	9.12	34.027	26.340	170.0	0.278	2.33	36.0							125
135	9.06	9.05	34.064	26.378	166.5	0.295	2.23	34.3	35.0	2.16	27.4	0.01	0.01	0.05	135
150 ISL	8.95	8.93	34.091	26.420	162.8	0.320	2.06	31.6							150
163	8.86	8.84	34.111	26.447	160.5	0.341	1.93	29.6	38.2	2.25	28.4	0.00	0.01	0.04	163
200 ISL	8.64	8.62	34.154	26.518	154.4	0.399	1.74	26.5							200
210	8.56	8.54	34.169	26.540	152.5	0.414	1.68	25.6	42.7	2.40	30.1	0.00	0.01	0.05	210
250 ISL	7.87	7.84	34.218	26.686	139.0	0.472	1.09	16.4							250
253	7.82	7.79	34.226H	26.696	138.1	0.477	1.05	15.7	52.8	2.68	33.1	0.00			255
296	7.68	7.65	34.232H	26.722	136.4	0.536	0.99	14.8	55.2	2.83	33.9	0.00			298
300 ISL	7.67	7.64	34.233	26.724	136.2	0.541									302

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
33 19.4 N	119 39.8 W	21/05/81	0203 GMT	78 M	320	26 KT	300 6 6	1	1014.5 MB	14.5 C	12.5 C	1/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.97	14.97	33.670	24.954	299.2	0.000	5.99	104.3							0
1	14.97	14.97	33.670H	24.954	299.2	0.003	5.99	104.3	11.8	0.51	1.7	0.07	1.98	0.45	1
10	14.78	14.78	33.674	24.998	295.2	0.030	6.05	105.0	12.2	0.53	2.0	0.08	1.99	0.31	10
18	13.82	13.82	33.688	25.212	275.1	0.053	5.80	98.7	15.7	0.75	5.1	0.11	1.72	0.42	18
20 ISL	13.47	13.47	33.695	25.289	267.8	0.058	5.68	95.9							20
27	12.25	12.25	33.731	25.557	242.4	0.076	5.16	85.0	20.9	1.19	11.8	0.22	0.84	0.34	27
30 ISL	11.91	11.90	33.737	25.628	235.8	0.083	4.91	80.3							30
47	10.61	10.60	33.780	25.896	210.7	0.121	3.61	57.4	26.0	1.64	19.5	0.20	0.15	0.18	47
50 ISL	10.37	10.36	33.803	25.957	204.9	0.127	3.44	54.4							50
68	9.43	9.42	33.928	26.211	181.0	0.162	2.73	42.3	33.5	1.99	24.9	0.12	0.15	0.00	68
72	9.41	9.40	33.930	26.216	180.7	0.170	2.64	40.9	34.0	2.02	25.2	0.12	0.05	0.08	72

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 59.1 N	120 21.2 W	21/05/81	0954 GMT	780 M	060	28 KT	300 6 5	1	1017.7 MB	13.2 C	12.1 C	8/5		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.27	14.27	33.557	25.016	293.3	0.000	6.16	105.7							0
3	14.27	14.27	33.557H	25.016	293.3	0.009	6.16	105.7	2.0	0.47	1.0	0.15	1.11	0.22	3
10 ISL	14.27	14.27	33.558	25.017	293.4	0.029	6.15	105.6							10
20	14.27	14.27	33.560	25.019	293.5	0.059	6.14	105.4	1.9	0.46	1.1	0.15	1.24	0.14	20
30	14.12	14.12	33.560	25.051	290.8	0.088	6.13	104.9	2.4	0.52	1.6	0.17	1.10	0.24	30
41	13.77	13.76	33.558	25.122	284.3	0.120	5.92	100.6	4.8	0.66	3.0	0.20	1.00	0.32	41
50 ISL	13.65	13.65	33.559	25.148	282.1	0.145	5.89	99.9							50
62	13.54	13.53	33.570	25.179	279.5	0.179	5.86	99.1	6.3	0.73	3.9	0.22	0.69	0.27	62
75 ISL	13.28	13.27	33.591	25.250	273.1	0.214	5.73	96.4							75
93	12.68	12.67	33.627	25.395	259.6	0.262	5.56	92.4	12.0	1.01	8.9	0.45	0.15	0.16	93
100 ISL	12.35	12.33	33.628	25.463	253.3	0.280	5.36	88.3							100
108	11.88	11.87	33.644	25.562	244.1	0.300	5.04	82.3	15.0	1.24	11.9	0.43	0.11	0.14	108
125 ISL	10.28	10.26	33.757	25.939	208.3	0.338	3.84	60.6							125
137	9.25	9.24	33.871	26.197	183.8	0.362	3.00	46.3	28.6	1.90	23.8	0.03	0.02	0.08	138
150 ISL	9.17	9.15	33.925	26.288	178.5	0.386	2.61	40.2							151
167	9.06	9.04	34.003	26.331	171.6	0.415	2.36	36.3	33.9	2.12	26.7	0.02	0.02	0.10	168
200 ISL	8.43	8.41	34.057	26.475	158.4	0.470	2.24	33.9							201
213	8.15	8.13	34.073	26.527	153.6	0.490	2.19	33.0	40.9	2.23	29.4	0.02	0.01	0.04	214
250 ISL	7.71	7.68	34.115	26.628	144.4	0.546	1.82	27.2							252
300 ISL	7.29	7.26	34.165	26.729	135.5	0.617	1.29	19.1							302
321	7.17	7.14	34.186H	26.758	133.0	0.645	1.05	15.5	58.3	2.76	35.1	0.02			323
400 ISL	6.63	6.59	34.233	26.875	122.8	0.747	0.77	11.2							403
489	6.13	6.09	34.276H	26.970	114.7	0.853	0.46	6.6	76.7	3.10	39.6	0.02			493
500 ISL	6.07	6.03	34.280	26.980	113.8	0.866									504



## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 87 80

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 19.3 N	121 42.9 W	21/05/81	2058 GMT	4103 M	330	23 KT	320 5 7	1	1019.5 MB	15.5 c	13.3 c	4/8		CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.78	14.78	33.404	24.790	314.8	0.000	5.99	103.8							0
2	14.78	14.78	33.404H	24.790	314.8	0.006	5.99	103.8	3.2	0.42	0.8	0.03	0.38	0.08	2
10 ISL	14.76	14.76	33.404	24.794	314.6	0.031	6.08	105.3							10
14	14.74	14.74	33.401H	24.796	314.6	0.044	6.10	105.6	2.9	0.42	0.5	0.03	0.29	0.10	14
20 ISL	14.69	14.68	33.406	24.813	313.2	0.063	6.09	105.4							20
23	14.66	14.66	33.410	24.821	312.5	0.072	6.09	105.3	2.9	0.42	0.4	0.03	0.33	0.07	23
30 ISL	14.65	14.64	33.410	24.825	312.3	0.094	6.10	105.4							30
33	14.64	14.64	33.413	24.828	312.1	0.104	6.11	105.6	2.9	0.41	0.3	0.04	0.37	0.07	33
50 ISL	14.03	14.02	33.365	24.921	303.7	0.156	6.19	105.6							50
53	13.88	13.87	33.360	24.947	301.3	0.165	6.19	105.3	2.5	0.49	0.9	0.10	0.81	0.29	53
75 ISL	12.86	12.85	33.410	25.193	278.4	0.229	5.87	97.8							75
79	12.65	12.64	33.428H	25.246	273.4	0.240	5.77	95.7	6.7	0.81	5.4	0.30	0.23	0.15	79
100 ISL	11.35	11.34	33.470	25.525	247.2	0.294	4.99	80.5							100
106	10.99	10.98	33.492	25.606	239.6	0.309	4.76	76.2	13.0	1.11	12.0	0.02	0.09	0.08	106
125 ISL	10.12	10.11	33.595	25.840	217.6	0.352	4.33	68.1							125
129	9.97	9.96	33.623	25.885	213.4	0.361	4.26	66.7	18.3	1.39	17.0	0.01	0.05	0.05	129
150 ISL	9.41	9.39	33.724	26.059	197.2	0.404	3.85	59.6							150
156	9.29	9.27	33.754	26.099	193.4	0.416	3.75	57.9	24.2	1.66	21.3	0.00	0.02	0.03	156
200 ISL	8.52	8.50	33.913	26.349	170.4	0.496	3.25	49.4							200
211	8.36	8.34	33.948	26.397	166.0	0.515	3.16	47.8	33.5	1.96	26.3	0.00	0.01	0.03	211
250 ISL	7.77	7.74	33.997	26.528	154.0	0.578	2.82	42.1							250
300 ISL	7.09	7.06	34.028	26.648	143.0	0.653	2.42	35.5							300
314	6.92	6.89	34.034	26.673	140.8	0.673	2.31	33.8	51.3	2.40	32.5	0.00			314
400 ISL	6.02	5.99	34.100	26.847	124.9	0.790	1.60	22.9							400
500 ISL	5.33	5.29	34.167	26.986	112.4	0.910	0.76	10.7							500
519	5.24	5.20	34.183	27.005	110.7	0.930	0.60	8.4	86.9	3.15	41.7	0.00			519

## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 87 90

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 58.8 N	122 22.0 W	22/05/81	0325 GMT	4243 M	330	22 KT	330 4 6	2	1020.0 MB	15.0 c	12.5 c	8/8		SC	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.52	15.52	33.420	24.641	329.0	0.000	5.87	103.2							0
2	15.52	15.52	33.420H	24.641	329.0	0.007	5.87	103.2	4.0	0.37	0.5	0.00	0.07	0.02	2
8	15.52	15.52	33.419	24.640	329.3	0.026	5.87	103.2	3.9	0.36	0.3	0.00	0.08	0.03	8
10 ISL	15.52	15.52	33.419	24.640	329.3	0.033	5.87	103.2							10
20	15.52	15.52	33.419	24.641	329.6	0.066	5.88	103.4	3.9	0.36	0.2	0.00	0.07	0.01	20
29	15.44	15.44	33.419	24.659	328.2	0.095	5.89	103.4	3.8	0.35	0.1	0.00	0.07	0.01	29
30 ISL	15.42	15.42	33.414	24.660	328.0	0.099	5.89	103.4							30
50	14.92	14.91	33.343	24.714	323.5	0.164	5.97	103.7	4.0	0.37	0.1	0.00	0.14	0.04	50
75	14.34	14.33	33.363	24.854	310.8	0.243	6.02	103.3	4.2	0.41	0.1	0.01	0.23	0.09	75
100 ISL	13.63	13.62	33.415	25.045	293.3	0.319	5.92	100.1							100
101	13.60	13.59	33.421	25.053	292.6	0.322	5.91	100.0	5.3	0.57	0.9	0.16	0.12	0.06	101
125 ISL	12.95	12.93	33.453	25.212	277.9	0.390	5.81	97.0							125
126	12.91	12.89	33.459	25.221	277.1	0.393	5.81	96.9	7.9	0.77	4.6	0.29	0.08	0.07	126
150 ISL	11.27	11.25	33.537	25.596	241.7	0.455	4.88	78.6							150
154	10.97	10.95	33.561	25.664	235.2	0.465	4.70	75.2	13.6	1.12	12.1	0.04	0.08	0.12	154
200 ISL	9.20	9.18	33.788	26.144	190.0	0.563	3.60	55.5							200
205	9.08	9.06	33.816	26.182	186.5	0.572	3.52	54.1	27.1	1.75	22.5	0.01	0.02	0.03	205
250 ISL	8.23	8.21	33.937	26.413	165.2	0.653	3.02	45.5							250
300 ISL	7.68	7.65	34.013	26.554	152.3	0.734	2.68	40.0							300
305	7.65	7.62	34.022H	26.562	151.7	0.741	2.66	39.6	43.1	2.16	29.3	0.00			305
400 ISL	6.57	6.53	34.140	26.809	129.0	0.880	1.77	25.7							400
500 ISL	5.73	5.68	34.183	26.952	116.0	1.004	0.75	10.6							500
510	5.66	5.62	34.189H	26.959	115.4	1.015	0.64	9.1	79.9	3.05	40.0	0.00			510



RV NEW HORIZON				CALCOFI CRUISE 8105							STATION 87 100						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
31 39.4 N	123 4.3 W	22/05/81	0957 GMT	4136 M	000	22 KT	330 4 4	2	1020.0 MB	15.0 C	12.0 C	6/8	CU				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0 ISL	15.75	15.75	33.425	24.593	333.5	0.000									0		
2	15.75	15.75	33.425H	24.593	333.5	0.007			3.7	0.35	0.8	0.00	0.06	0.02	2		
10 ISL	15.75	15.75	33.426	24.594	333.7	0.033									10		
18	15.75	15.75	33.427	24.595	333.8	0.060			3.7	0.36	0.4	0.01	0.06	0.02	18		
20 ISL	15.75	15.74	33.426	24.596	333.9	0.067									20		
28	15.74	15.74	33.425	24.597	334.1	0.093		5.80	102.4	3.7	0.35	0.3	0.00	0.06	0.01	28	
30 ISL	15.73	15.72	33.423	24.599	333.9	0.100		5.81	102.5						30		
38	15.67	15.66	33.424	24.612	332.9	0.127		5.83	102.8	3.7	0.34	0.0	0.00	0.06	0.02	38	
50 ISL	15.55	15.54	33.416	24.635	331.1	0.167		5.84	102.8						50		
59	15.47	15.46	33.416	24.651	329.9	0.196		5.85	102.8	3.6	0.34	0.0	0.00	0.09	0.03	59	
75 ISL	15.45	15.44	33.424	24.664	329.1	0.249		5.84	102.6						75		
85	15.44	15.43	33.434	24.672	328.6	0.282		5.84	102.5	3.6	0.33	0.0	0.00	0.14	0.06	85	
100 ISL	15.09	15.08	33.506	24.808	316.1	0.330		5.78	100.9						100		
109	14.70	14.68	33.557	24.928	304.9	0.358		5.75	99.5	4.3	0.38	0.1	0.08	0.21	0.21	109	
125 ISL	13.35	13.33	33.584	25.233	276.0	0.404		5.38	90.6						125		
139	12.03	12.01	33.611	25.509	249.9	0.441		4.99	81.7	10.1	0.84	7.9	0.05	0.07	0.12	140	
150 ISL	11.24	11.22	33.610	25.658	235.8	0.468		4.73	76.2						151		
172	9.97	9.95	33.635	25.895	213.4	0.518		4.29	67.2	18.2	1.34	16.4	0.01	0.02	0.03	173	
200 ISL	9.11	9.09	33.758	26.135	190.9	0.574		4.02	61.8						201		
223	8.72	8.70	33.877	26.287	176.8	0.617		3.86	58.9	27.8	1.68	22.0	0.00	0.00	0.01	224	
250 ISL	8.27	8.25	33.939	26.408	165.6	0.664		3.49	52.8						252		
300 ISL	7.63	7.60	34.016	26.564	151.3	0.745		2.77	41.2						302		
319	7.44	7.41	34.034H	26.601	148.1	0.773		2.48	36.8	45.1	2.24	30.1	0.00		321		
400 ISL	6.58	6.54	34.119	26.791	130.8	0.890		1.56	22.6						403		
500 ISL	5.79	5.75	34.167	26.932	118.1	1.015		0.72	10.3						504		
510	5.73	5.69	34.175H	26.940	117.3	1.027		0.66	9.4	78.3	3.04	39.8	0.00		514		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 30						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
33 25.1 N	117 54.3 W	19/05/81	0901 GMT	621 M	320	7 KT	310 2 3		1012.2 MB	17.4 C	15.7 C						
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0 ISL	19.24	19.24	33.673	23.947	395.1	0.000	6.03	113.9							0		
1	19.24	19.24	33.673H	23.947	395.1	0.004	6.03	113.9	3.4	0.18	0.2	0.04	0.35	0.07	1		
8	19.22	19.22	33.672H	23.952	394.9	0.032	6.12	115.6	3.2	0.20	0.2	0.04	0.40	0.08	8		
10 ISL	18.40	18.39	33.637	24.133	377.7	0.039	5.74	106.8							10		
17	14.95	14.95	33.574H	24.885	306.2	0.063	4.23	73.6	10.5	0.79	0.6	0.19	3.55	0.55	17		
20 ISL	14.02	14.02	33.573	25.081	287.6	0.072	3.96	67.7							20		
28	12.31	12.31	33.593H	25.439	253.8	0.094	3.65	60.2	14.2	1.23	11.1	0.55	0.56	0.50	28		
30 ISL	12.06	12.06	33.604	25.495	248.4	0.099	3.58	58.7							30		
48	10.92	10.91	33.692H	25.773	222.4	0.142	3.27	52.3	20.7	1.57	19.1	0.07	0.15	0.17	48		
50 ISL	10.82	10.82	33.695	25.793	220.5	0.146	3.28	52.4							50		
72	10.09	10.08	33.744H	25.958	205.3	0.193	3.39	53.3	23.7	1.64	21.0	0.06	0.07	0.14	72		
75 ISL	10.06	10.05	33.760	25.977	203.5	0.199	3.35	52.6							75		
98	9.92	9.91	33.904H	26.112	191.2	0.244	2.91	45.6	27.9	1.81	23.4	0.05			98		
100 ISL	9.89	9.89	33.912	26.124	190.1	0.248	2.87	45.0							100		
121	9.63	9.62	33.994H	26.231	180.4	0.287	2.54	39.6	30.9	1.96	25.3	0.08	0.02	0.08	121		
125 ISL	9.60	9.60	34.001	26.242	179.4	0.294	2.51	39.2							125		
147	9.52	9.50	34.039H	26.284	175.8	0.333	2.43	37.8	32.2	1.99	25.8	0.05	0.03	0.09	148		
150 ISL	9.51	9.50	34.043	26.291	175.3	0.339	2.41	37.4							151		
198	9.37	9.35	34.140	26.389	166.9	0.421									199		
200 ISL	9.36	9.34	34.139	26.392	166.7	0.424	2.01	31.2							201		
250	8.97	8.94	34.178	26.484	158.8	0.506									252		
299	8.64	8.61	34.279H	26.615	147.2	0.581	1.16	17.7	46.8	2.51	31.6	0.04			301		
300 ISL	8.63	8.61	34.276	26.617	147.0	0.582	1.15	17.6							302		
400	7.19	7.15	34.209	26.775	132.8	0.722									403		
500	6.25 H	6.21	34.298H	26.972	114.8	0.846	0.41	5.9	77.4	2.97	39.8	0.03			504		

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 37						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
33 11.1 N	118 23.2 W	19/05/81	1339 GMT	1202 M	290	12 KT	290 3 3	2	1011.5 MB	17.5 C	15.2 C		8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.33	17.33	33.630H	24.386	353.2	0.000	5.68	103.6	1.8	0.31	0.3	0.02	0.16	0.03	0		
9	17.33	17.33	33.622H	24.380	354.1	0.032	5.71	104.1	1.8	0.29	0.2	0.03	0.17	0.02	9		
10 ISL	17.31	17.31	33.622	24.384	353.7	0.035	5.73	104.4							10		
20	16.40	16.40	33.601H	24.582	335.2	0.070	5.89	105.5	2.4	0.34	0.3	0.05	0.33	0.06	20		
29	13.96	13.96	33.557H	25.082	287.8	0.098	5.81	99.1	4.8	0.48	1.0	0.14	0.44	0.09	29		
30 ISL	13.78	13.78	33.553	25.117	284.5	0.101	5.76	97.9							30		
49	11.65	11.64	33.542H	25.524	246.2	0.151	4.57	74.2	12.8	1.06	11.2	0.28	0.37	0.24	49		
50 ISL	11.58	11.57	33.544	25.540	244.6	0.154	4.53	73.5							50		
74	10.38	10.37	33.677H	25.856	215.0	0.209	3.77	59.6	20.3	1.44	18.2	0.07	0.15	0.16	74		
75 ISL	10.35	10.34	33.681	25.866	214.0	0.211	3.74	59.1							75		
100	9.72	9.71	33.826H	26.084	193.8	0.262	3.08	48.0	26.4	1.74	23.1	0.05	0.04	0.08	100		
125	9.24	9.23	33.936H	26.249	178.6	0.309	2.92	45.1	29.7	1.82	24.7	0.03	0.01	0.04	125		
150	9.00	8.98	34.029H	26.361	168.5	0.352	2.55	39.2	33.6	1.97	26.9	0.03	0.01	0.03	151		
200	8.51	8.49	34.103	26.496	156.5	0.433									201		
250	8.06	8.03	34.124	26.581	149.1	0.510									252		
300	7.65	7.62	34.160	26.670	141.4	0.582									302		
400	6.93	6.89	34.218	26.818	128.5	0.717									403		
500 ISL	6.27	6.23	34.294	26.971	114.9	0.839	0.44	6.4							504		
502	6.26	6.21	34.303H	26.974	114.6	0.841	0.43	6.2	79.4	2.92	39.6	0.03			506		

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 55.0 N	119 8.9 W	20/05/81	0000 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	16.18	16.18	33.624H	24.649	328.1	0.000	5.93	105.8	2.7	0.38	0.2	0.04			0
9	16.08	16.08	33.626H	24.674	326.1	0.029	6.00	106.8	2.0	0.33	0.2	0.04			9
10 ISL	16.06	16.06	33.625	24.679	325.7	0.033	6.00	106.8							10
19	15.86	15.86	33.625H	24.723	321.7	0.062	6.00	106.3	2.2	0.38	0.2	0.05			19
20 ISL	15.79	15.78	33.624	24.740	320.2	0.065	5.99	105.9							20
30	14.65	14.65	33.619H	24.984	297.1	0.096	5.64	97.6	6.0	0.56	2.1	0.14			30
50	10.63	10.62	33.675H	25.811	218.8	0.147	3.66	58.2	20.6	1.45	18.6	0.09			50
75	9.96	9.95	33.813H	26.033	198.1	0.200	3.10	48.6	25.6	1.71	22.5	0.05			75
100	9.44	9.43	33.934H	26.215	181.4	0.247	2.76	42.8	30.3	1.88	25.1	0.05			100
124	9.03	9.02	34.016H	26.345	169.4	0.289	2.54	39.1	33.7	1.97	26.7	0.04			124
125 ISL	9.02	9.00	34.016	26.349	169.0	0.291	2.53	38.9							125
150	8.73	8.71	34.072H	26.437	161.2	0.332	2.36	36.1	36.6	2.03	28.0	0.04			151
200	8.30	8.28	34.121	26.542	152.0	0.410									201
250	7.77	7.75	34.167	26.657	141.8	0.484									252
299	7.44	7.41	34.197	26.729	135.6	0.552									301
300 ISL	7.43	7.40	34.192	26.730	135.5	0.553	1.41	21.0							302
400 ISL	6.77	6.74	34.251	26.869	123.5	0.683	0.87	12.7							403
500	6.13	6.09	34.312H	26.998	112.2	0.801	0.39	5.6	80.2	2.95	40.2	0.03			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 54.7 N	119 9.0 W	20/05/81	0439 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.10	16.10	33.630	24.672	326.0	0.000	6.02	107.2							0
1	16.10	16.10	33.630H	24.672	326.0	0.003	6.02	107.2	1.7	0.35	0.4	0.00			1
9	16.10	16.10	33.627H	24.670	326.5	0.029	5.90	105.1	1.7	0.33	0.4	0.00			9
10 ISL	16.08	16.08	33.626	24.674	326.2	0.033	5.91	105.2							10
19	15.56	15.56	33.617H	24.784	315.9	0.061	5.97	105.2	2.2	0.38	0.4	0.01			19
20 ISL	15.42	15.42	33.615	24.813	313.2	0.065	5.94	104.3							20
30	13.79	13.79	33.611H	25.159	280.5	0.094	5.40	91.8	7.0	0.64	4.5	0.15			30
49	10.92	10.91	33.640H	25.732	226.3	0.142	3.87	61.9	18.6	1.41	17.6	0.06			49
50 ISL	10.88	10.88	33.652	25.749	224.7	0.145	3.83	61.2							50
75	10.01	10.00	33.776H	25.996	201.7	0.198	3.24	50.9	25.2	1.71	22.3	0.01			75
99	9.66	9.65	33.878H	26.135	189.0	0.245	2.96	46.1	27.8	1.84	24.1	0.01			99
100 ISL	9.65	9.63	33.881	26.141	188.4	0.247	2.95	45.9							100
124	9.27	9.26	34.004H	26.297	174.0	0.290	2.61	40.3	32.8	1.99	26.8	0.00			124
125 ISL	9.25	9.24	34.005	26.303	173.5	0.292	2.60	40.2							125
150	8.82	8.80	34.077H	26.427	162.1	0.334	2.36	36.1	36.7	2.08	28.2	0.00			151
200	8.31	8.29	34.147H	26.561	150.3	0.412	1.86	28.2	43.8	2.29	30.9	0.00			201
250	7.85	7.82	34.174	26.651	142.4	0.485									252
300	7.36	7.33	34.235H	26.770	131.7	0.554	0.94	13.9	58.2	2.65	35.3	0.00			302
400	6.58	6.54	34.249	26.889	121.5	0.680									403
500	6.06	6.02	34.315H	27.009	111.0	0.797	0.42	6.0	80.6	2.99	40.2	0.00			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 54.9 N	119 8.8 W	20/05/81	1003 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.02	16.02	33.651	24.706	322.7	0.000	6.00	106.7							0
1	16.02	16.02	33.651	24.706	322.7	0.003	6.00	106.7	1.2	0.32	0.6	0.00			1
9	16.02	16.02	33.645	24.702	323.4	0.029	5.94	105.6	1.1	0.34	0.6	0.00			9
10 ISL	15.96	15.95	33.636	24.710	322.7	0.032	5.93	105.3							10
20	15.31	15.31	33.553	24.790	315.4	0.064	5.83	102.2	3.3	0.44	1.6	0.05			20
30	12.73	12.73	33.496	25.282	268.7	0.093	4.89	81.3	10.7	0.96	9.2	0.33			30
49	10.74	10.73	33.667	25.785	221.2	0.140	3.71	59.1	19.8	1.47	19.0	0.07			49
50 ISL	10.69	10.68	33.674	25.801	219.7	0.142	3.67	58.5							50
75	9.95	9.94	33.853	26.066	195.0	0.194	3.02	47.4	25.6	1.76	23.2	0.02			75
99	9.58	9.57	33.959	26.211	181.7	0.239	2.61	40.6	30.1	1.93	25.7	0.02			99
100 ISL	9.56	9.55	33.962	26.219	181.0	0.241	2.60	40.4							100
124	9.03	9.02	34.065	26.384	165.8	0.283	2.36	36.3	33.4	2.04	27.4	0.01			124
125 ISL	9.02	9.00	34.065	26.388	165.4	0.284	2.35	36.1							125
150	8.74	8.72	34.116	26.470	158.1	0.325	2.12	32.4	37.7	2.15	29.2	0.01			151
200	8.25	8.23	34.148	26.571	149.3	0.402	1.93	29.2	43.4	2.29	31.1	0.01			201
250	7.79	7.77	34.165	26.653	142.2	0.475									252
300 ISL	7.37	7.34	34.177	26.727	135.8	0.544	1.06	15.7							302
301	7.36	7.33	34.182	26.728	135.6	0.545	1.05	15.5	56.7	2.62	35.1	0.01			303
400	6.66	6.62	34.244	26.875	122.9	0.673									403
500	6.05	6.01	34.318	27.013	110.7	0.790	0.45	6.5	78.5	2.96	40.0	0.01			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 55.2 N	119 8.6 W	20/05/81	1706 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.98	15.98	33.637	24.705	322.9	0.000	6.04	107.3							0
1	15.98	15.98	33.637H	24.705	322.9	0.003	6.04	107.3	1.0	0.30	0.3	0.01			1
10	15.98	15.98	33.636H	24.704	323.2	0.032	5.95	105.7	0.8	0.29	0.3	0.01			10
19	15.58	15.58	33.636H	24.794	314.9	0.061	5.99	105.6	1.1	0.30	0.3	0.02			19
20 ISL	15.46	15.45	33.634	24.821	312.5	0.064	5.95	104.6							20
30	13.88	13.88	33.623H	25.149	281.4	0.094	5.31	90.5	7.8	0.68	4.5	0.19			30
50	10.46	10.45	33.677H	25.842	215.9	0.144	3.66	58.0	20.0	1.42	18.3	0.06			50
75 ISL	10.03	10.02	33.786	26.002	201.1	0.196	3.15	49.5							75
76	10.01	10.00	33.792H	26.009	200.5	0.198	3.15	49.4	24.5	1.65	22.0	0.03			76
100	9.64	9.63	33.900H	26.155	187.1	0.244	2.84	44.2	27.4	1.79	23.8	0.02			100
124	9.09	9.08	33.997H	26.321	171.7	0.287	2.55	39.3	32.0	1.92	26.2	0.02			124
125 ISL	9.07	9.06	33.998	26.326	171.2	0.289	2.54	39.1							125
150	8.78	8.76	34.091H	26.444	160.5	0.330	2.25	34.4	37.0	2.04	28.2	0.01			151
200	8.38	8.36	34.199H	26.591	147.4	0.407	1.67	25.3	43.4	2.29	30.6	0.01			201
250	7.74	7.72	34.190	26.680	139.6	0.479									252
299	7.20	7.17	34.221H	26.781	130.5	0.545	0.98	14.5	58.2	2.61	35.3	0.01			301
300 ISL	7.19	7.16	34.216	26.783	130.4	0.547									302
400	6.59	6.55	34.239	26.880	122.3	0.673									403
500	6.06	6.02	34.317	27.011	110.9	0.790									504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 55.0 N	119 9.0 W	20/05/81	2307 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.37	16.37	33.648	24.624	330.5	0.000	5.91	105.8							0
1	16.37	16.37	33.648	24.624	330.5	0.003	5.91	105.8	0.8	0.25	0.3	0.01			1
9	16.36	16.36	33.635H	24.617	331.5	0.030	5.99	107.2	0.5	0.23	0.2	0.01			9
10 ISL	16.25	16.24	33.629	24.639	329.5	0.033	5.98	106.8							10
20	14.50	14.50	33.624	25.020	293.5	0.064	5.90	101.8	4.2	0.42	0.8	0.07			20
30	12.36	12.36	33.788	25.580	240.4	0.091	5.23	86.4	8.6	0.71	5.1	0.19			30
50	10.49	10.48	33.720	25.870	213.2	0.136	3.61	57.2	20.7	1.48	19.0	0.05			50
75	9.92	9.91	33.882	26.094	192.4	0.187	3.02	47.3	25.5	1.74	22.7	0.02			75
99	9.28	9.27	33.954	26.256	177.4	0.231	2.78	43.0	29.0	1.83	24.8	0.01			99
100 ISL	9.27	9.26	33.956	26.261	176.9	0.233	2.77	42.8							100
124	9.06	9.05	34.050	26.367	167.3	0.274	2.57	39.6	32.7	1.93	26.6	0.02			124
125 ISL	9.05	9.03	34.050	26.371	167.0	0.276	2.56	39.4							125
150	8.71	8.69	34.086	26.451	159.8	0.317	2.32	35.4	35.8	2.03	27.8	0.01			151
199	8.20	8.18	34.116	26.553	150.9	0.393	2.17	32.8	38.6	2.10	28.8	0.01			200
200 ISL	8.19	8.17	34.112	26.555	150.8	0.395	2.16	32.6							201
250	7.75	7.73	34.152	26.648	142.6	0.468									252
300 ISL	7.72	7.69	34.236	26.724	136.3	0.538	0.85	12.8							302
301	7.72	7.69	34.243	26.725	136.2	0.539	0.84	12.5	56.0	2.66	34.5	0.01			303
400	6.64	6.60	34.236	26.871	123.3	0.667									403
500	6.13	6.09	34.305H	26.993	112.7	0.785	0.43	6.2	78.3	2.96	40.1	0.01			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 47							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 54.7 N	119 8.9 W	21/05/81	0654 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	PO4	NO3	NO2	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.38	16.38	33.635	24.612	331.7	0.000	5.81	104.0							0
1	16.38	16.38	33.635	24.612	331.7	0.003	5.81	104.0	1.3	0.30	0.3	0.00			1
8	16.38	16.38	33.641H	24.617	331.5	0.027	5.86	104.9	1.2	0.30	0.3	0.00			8
10 ISL	16.36	16.36	33.638	24.619	331.3	0.033	5.86	104.9							10
19	16.28	16.28	33.628	24.630	330.6	0.063	5.86	104.7	2.1	0.35	0.4	0.01			19
20 ISL	16.04	16.04	33.616	24.676	326.2	0.066	5.79	103.0							20
29	13.51	13.51	33.552	25.170	279.4	0.093	5.03	85.0	10.2	0.85	8.1	0.25			29
30 ISL	13.30	13.30	33.553	25.214	275.2	0.096	4.95	83.3							30
49	10.70	10.69	33.690	25.810	218.8	0.143	3.74	59.6	19.8	1.45	18.5	0.06			49
50 ISL	10.67	10.66	33.704	25.827	217.2	0.145	3.70	58.9							50
74	9.93	9.92	33.859	26.074	194.2	0.195	3.12	48.9	25.6	1.74	22.8	0.01			74
75 ISL	9.90	9.89	33.862	26.083	193.4	0.197	3.11	48.7							75
100	9.32	9.31	33.963	26.257	177.4	0.243	2.81	43.5	29.9	1.86	24.9	0.00			100
125	9.02	9.01	34.064	26.385	165.7	0.286	2.44	37.5	34.4	2.03	27.4	0.00			125
150	8.68	8.66	34.089	26.458	159.1	0.327	2.21	33.7	38.0	2.11	28.8	0.00			151
200 ISL	8.15	8.13	34.129	26.574	148.9	0.404	1.75	26.4							201
201	8.14	8.12	34.134	26.576	148.7	0.405	1.74	26.2	45.3	2.31	31.2	0.00			202
250	7.72	7.70	34.146	26.648	142.6	0.477									252
300	7.17	7.14	34.185	26.757	132.8	0.545	0.99	14.6	59.7	2.65	35.3	0.00			302
400	6.51	6.47	34.243	26.893	121.0	0.672									403
500	6.05	6.01	34.311H	27.008	111.2	0.788	0.39	5.6	80.7	2.96	39.8	0.00			504



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 47					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 55.0 N	119 9.0 W	21/05/81	1103 GMT													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	16.32	16.32	33.642	24.631	329.9	0.000	5.93	106.1	1.1	0.32	0.4	0.00			0	
9	16.32	16.32	33.633H	24.625	330.8	0.030	5.93	106.1	0.9	0.31	0.4	0.00			9	
10 ISL	16.17	16.17	33.632	24.659	327.6	0.033	5.91	105.5							10	
20	14.19	14.19	33.646	25.102	285.6	0.064	5.58	95.7	6.2	0.59	3.7	0.12			20	
30	12.51	12.51	33.647	25.442	253.5	0.091	4.90	81.1	11.5	0.91	9.4	0.32			30	
50	10.56	10.55	33.709	25.849	215.1	0.137	3.78	60.0	19.4	1.42	18.4	0.07			50	
75	9.92	9.91	33.816	26.043	197.3	0.189	3.19	50.0	25.3	1.69	22.6	0.02			75	
100	9.59	9.58	33.933	26.189	183.8	0.237	2.85	44.4	28.6	1.82	24.7	0.02			100	
124	9.06	9.05	34.035	26.355	168.5	0.279	2.41	37.1	33.9	1.99	27.4	0.01			124	
125 ISL	9.05	9.03	34.036	26.360	168.0	0.281	2.40	36.9							125	
149	8.77	8.75	34.102	26.454	159.6	0.320	2.29	35.0	37.0	2.09	28.5	0.01			150	
150 ISL	8.76	8.74	34.100	26.457	159.3	0.322	2.29	35.0							151	
199	8.14	8.12	34.134	26.576	148.7	0.397	2.07	31.2	40.4	2.16	29.6	0.01			200	
200 ISL	8.13	8.11	34.130	26.578	148.5	0.398	2.06	31.1							201	
250	7.72	7.70	34.149	26.650	142.4	0.471									252	
300	7.28	7.25	34.167	26.728	135.7	0.541	1.13	16.7	57.2	2.58	34.7	0.01			302	
400	6.72	6.68	34.238	26.862	124.2	0.671									403	
500	6.08	6.04	34.308H	27.001	111.8	0.789	0.51	7.3	79.1	2.95	39.6	0.00			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 47					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 54.8 N	119 8.5 W	21/05/81	1725 GMT	1256 M	310	19 KT	300 4 6	0	1017.6 MB	15.9 C	14.3 C		0/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	16.39	16.39	33.642	24.615	331.4	0.000	5.88	105.3	0.9	0.26	0.3	0.00			0	
9	16.36	16.36	33.631H	24.614	331.8	0.030	5.90	105.7	0.6	0.26	0.3	0.00			9	
10 ISL	16.35	16.35	33.628	24.614	331.9	0.033	5.90	105.7							10	
20	16.30	16.30	33.610	24.612	332.4	0.066	5.93	106.0	0.6	0.26	0.3	0.00			20	
30	14.01	14.01	33.648	25.142	282.1	0.097	5.71	97.5	5.3	0.51	2.9	0.00			30	
50	10.66	10.65	33.707	25.830	216.9	0.147	3.78	60.2	19.0	1.38	18.4	0.10			50	
75	10.03	10.02	33.830	26.035	198.0	0.199	3.06	48.1	25.3	1.72	23.0	0.02			75	
100	9.59	9.58	33.939	26.194	183.4	0.247	2.80	43.6	27.8	1.80	24.4	0.01			100	
125	9.20	9.19	33.996	26.302	173.5	0.291	2.57	39.7	31.8	1.93	26.5	0.01			125	
150	9.03	9.01	34.046	26.369	167.7	0.334	2.36	36.3	34.5	2.01	27.6	0.02			151	
200	8.31	8.29	34.129	26.547	151.6	0.414	2.09	31.6	38.9	2.14	29.2	0.00			201	
250	7.82	7.80	34.147	26.634	144.0	0.488									252	
300	7.35	7.32	34.186	26.733	135.2	0.557	0.86	12.7	57.6	2.63	34.6	0.00			302	
400	6.58	6.54	34.246	26.886	121.7	0.686									403	
500	6.02	5.98	34.314H	27.014	110.6	0.802	0.37	5.3	80.4	2.95	39.9	0.00			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 53					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 39.1 N	119 28.9 W	21/05/81	2332 GMT	1387 M	320	26 KT	310 6 5	1	1017.9 MB	14.9 C	13.0 C		2/8	CI		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.62	15.62	33.658	24.802	313.7	0.000	5.95	105.0							0	
2	15.62	15.62	33.658	24.802	313.7	0.006	5.95	105.0	4.2	0.41	1.7	0.06	0.72	0.06	2	
7	15.62	15.62	33.632H	24.782	315.7	0.022	5.98	105.5	4.3	0.43	1.6	0.06	0.70	0.05	7	
10 ISL	15.26	15.26	33.637	24.866	307.8	0.031	6.01	105.2							10	
20	13.72	13.72	33.690	25.234	273.1	0.060	6.09	103.4	9.9	0.74	6.4	0.17	1.62	0.30	20	
29	13.00	13.00	33.693	25.382	259.2	0.084	5.79	96.9	14.4	0.93	9.4	0.20	1.43	0.47	29	
30 ISL	12.94	12.93	33.693	25.395	258.0	0.087	5.76	96.2							30	
50	11.81	11.80	33.703	25.619	237.1	0.136	5.07	82.7	16.5	1.16	12.9	0.30	0.38	0.32	50	
74	10.31	10.30	33.698	25.884	212.3	0.190	4.02	63.5	18.8	1.43	18.6	0.07	0.10	0.10	74	
75 ISL	10.26	10.25	33.702	25.897	211.1	0.192	3.97	62.7							75	
100 ISL	9.42	9.41	33.874	26.173	185.3	0.242	2.99	46.4							100	
101	9.40	9.39	33.884	26.182	184.5	0.244	2.96	45.9	28.5	1.80	24.4	0.02	0.05	0.07	101	
123	9.22	9.21	33.946	26.260	177.5	0.284	2.61	40.3	32.0	1.94	26.2	0.02	0.06	0.08	123	
125 ISL	9.21	9.19	33.951	26.268	176.8	0.287	2.58	39.8							125	
150 ISL	9.03	9.01	34.044	26.371	167.5	0.330	2.20	33.9							151	
151	9.02	9.00	34.051	26.375	167.2	0.332	2.19	33.7	36.4	2.10	28.3	0.01	0.02	0.08	152	
200	8.31	8.29	34.083	26.510	155.0	0.411	1.84	27.8	43.2	2.26	30.6	0.01	0.01	0.04	201	
250	7.75	7.73	34.157	26.652	142.2	0.485									252	
300	7.39	7.36	34.185	26.727	135.8	0.555	0.97	14.4	57.6	2.61	34.8	0.00			302	
400	6.63	6.59	34.239	26.875	122.9	0.684									403	
495	6.05	6.01	34.304H	27.002	111.7	0.795	0.38	5.5	80.6	2.98	39.7	0.00			499	
500	6.04	6.00	34.320	27.016	110.4	0.801									504	

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.1 N	119 57.6 W	22/05/81	0508 GMT	948 M	320	25 KT			1019.0 MB	13.9 C	11.9 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.25	14.25	33.678	25.114	284.0	0.000	6.19	106.3							0
2	14.25	14.25	33.678	25.114	284.0	0.006	6.19	106.3	5.4	0.57	3.2	0.09	2.11	0.19	2
9	14.25	14.25	33.676	25.113	284.3	0.026	6.25	107.3	5.4	0.55	3.1	0.10	2.20	0.28	9
10 ISL	14.24	14.24	33.675	25.114	284.2	0.028	6.24	107.2							10
20	14.18	14.18	33.675	25.127	283.3	0.057	6.18	106.0	6.8	0.63	3.8	0.10	1.74	0.28	20
29	13.86	13.86	33.675	25.194	277.1	0.082	5.95	101.3	7.5	0.78	5.4	0.18	1.88	0.20	29
30 ISL	13.82	13.81	33.673	25.202	276.4	0.085	5.93	101.0							30
39	13.48	13.47	33.660	25.260	271.1	0.109	5.84	98.7	9.3	0.83	6.3	0.21	1.25	0.26	39
50	13.40	13.39	33.645	25.265	270.9	0.139	5.79	97.7	10.0	0.83	6.6	0.22	0.77	0.20	50
59	13.23	13.22	33.631	25.289	268.9	0.164	5.62	94.5	11.1	0.92	7.9	0.24	0.53	0.14	59
70	12.57	12.56	33.530	25.341	264.2	0.193	5.30	87.8	13.5	1.05	11.0	0.25	0.53	0.16	70
75 ISL	11.89	11.88	33.531	25.474	251.6	0.206	4.87	79.6							75
78	11.46	11.45	33.545	25.562	243.2	0.213	4.61	74.6	14.5	1.19	14.5	0.13	0.32	0.11	78
100	10.22	10.21	33.598	25.822	218.8	0.264	4.38	69.0	16.9	1.30	16.5	0.08	0.24	0.11	100
124	9.41	9.40	33.760	26.084	194.3	0.314	3.40	52.6	26.3	1.69	23.2	0.00	0.10	0.04	124
125 ISL	9.39	9.37	33.765	26.093	193.4	0.315	3.37	52.1							125
150	9.06	9.04	33.945H	26.285	175.6	0.362	2.83	43.5	32.0	1.90	26.4	0.00	0.06	0.04	151

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.0 N	119 57.7 W	22/05/81	1242 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.11	14.11	33.666	25.134	282.0	0.000	6.16	105.5	6.8	0.61	4.1	0.11	1.85	0.34	0
10	14.11	14.11	33.652H	25.124	283.3	0.028	6.21	106.3	6.6	0.62	4.1	0.11	1.94	0.35	10
20	14.10	14.10	33.651	25.125	283.5	0.057	6.20	106.1	7.2	0.66	4.3	0.11	1.72	0.37	20
30	14.03	14.03	33.642	25.133	283.0	0.085	6.17	105.4	8.2	0.68	4.7	0.11	1.59	0.29	30
40	13.54	13.53	33.641	25.233	273.7	0.113	6.06	102.5	9.6	0.72	5.6	0.13	1.20	0.45	40
50	13.26	13.25	33.625	25.278	269.7	0.140	5.89	99.1	9.5	0.84	6.8	0.21	1.03	0.44	50
60	12.97	12.96	33.621	25.333	264.7	0.167	5.73	95.8	10.9	0.91	8.1	0.26	0.72	0.22	60
69	12.22	12.21	33.656	25.506	248.5	0.190	5.40	88.9	12.5	1.01	10.0	0.28	0.56	0.23	69
75 ISL	11.58	11.58	33.559	25.551	244.2	0.205	5.19	84.2							75
79	11.16	11.15	33.495	25.577	241.8	0.214	5.06	81.3	14.2	1.09	12.1	0.27	0.38	0.29	79
100	9.66	9.65	33.687	25.986	203.2	0.261	4.44	69.1	17.8	1.30	16.5	0.12	0.28	0.13	100
125	9.20	9.19	33.842	26.182	185.0	0.309	3.58	55.2	25.0	1.61	22.3	0.01	0.11	0.06	125
150	8.89	8.87	33.955H	26.320	172.3	0.354	2.74	42.0	32.7	1.91	26.3	0.00	0.07	0.08	151

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.1 N	119 57.3 W	22/05/81	1742 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	14.05	14.05	33.703	25.175	278.1	0.000	6.30	107.7							0
1	14.05	14.05	33.703	25.175	278.1	0.003	6.30	107.7	4.3	0.57	3.0	0.11			1
10	14.06	14.06	33.688	25.162	279.7	0.028	6.30	107.8	4.5	0.58	3.1	0.12			10
20	14.05	14.05	33.684	25.161	280.0	0.056	6.27	107.2	5.3	0.60	3.4	0.12			20
29	14.01	14.01	33.678	25.165	279.9	0.081	6.29	107.5	5.3	0.61	3.4	0.13			29
30 ISL	13.99	13.98	33.681	25.172	279.2	0.084	6.28	107.3							30
40	13.69	13.68	33.707	25.254	271.7	0.111	6.17	104.7	7.6	0.69	4.6	0.13			40
50	13.32	13.31	33.649	25.284	269.1	0.138	6.00	101.0	10.9	0.80	6.2	0.14			50
60	13.05	13.04	33.667	25.353	262.9	0.165	5.73	96.0	11.5	0.91	7.7	0.25			60
70	12.72	12.71	33.657	25.410	257.6	0.191	5.64	93.8	12.5	0.95	8.5	0.25			70
75 ISL	12.25	12.24	33.649	25.497	249.4	0.204	5.47	90.1							75
80	11.70	11.69	33.648	25.597	239.9	0.216	5.28	85.9	13.6	1.06	10.6	0.29			80
100 ISL	10.00	9.99	33.655	25.906	210.8	0.261	4.77	74.8							100
101	9.94	9.93	33.660	25.918	209.7	0.263	4.74	74.2	16.1	1.22	13.9	0.20			101
124	9.43	9.42	33.777	26.094	193.3	0.309	3.62	56.1	24.9	1.62	21.6	0.02			124
125 ISL	9.41	9.40	33.780	26.101	192.7	0.311	3.58	55.5							125
149	9.06	9.04	33.915H	26.262	177.8	0.356	2.92	44.9	31.1	1.87	25.8	0.00			150



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 60							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.1 N	119 57.6 W	22/05/81	2329 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.93	13.93	33.702	25.199	275.8	0.000	6.19	105.6							0
1	13.93	13.93	33.702	25.199	275.8	0.003	6.19	105.6	6.1	0.67	4.2	0.13			1
10	13.93	13.93	33.691	25.191	276.9	0.028	6.25	106.6	6.1	0.64	4.1	0.13			10
20	13.86	13.86	33.684	25.200	276.3	0.055	6.19	105.4	6.8	0.67	4.6	0.13			20
30	13.75	13.75	33.684	25.223	274.4	0.083	6.13	104.2	7.1	0.70	5.1	0.14			30
50	13.59	13.58	33.648	25.229	274.4	0.138	6.06	102.6	8.4	0.75	5.5	0.14			50
75	11.16	11.15	33.610	25.667	233.2	0.201	4.80	77.2	14.8	1.18	13.2	0.30			75
100 ISL	9.72	9.71	33.677	25.970	204.6	0.256	3.95	61.5							100
101	9.68	9.67	33.684	25.980	203.7	0.258	3.92	61.0	21.1	1.48	19.9	0.03			101
125	9.30	9.29	33.814	26.144	188.6	0.305	3.33	51.4	26.4	1.70	23.1	0.00			125
150	8.92	8.90	33.942	26.305	173.7	0.350	2.81	43.1	31.4	1.90	25.8	0.00			151
200	8.31	8.29	34.067	26.498	156.2	0.433	2.14	32.4	40.4	2.16	29.8	0.00			201
250	7.85	7.83	34.118	26.607	146.5	0.508									252
299	7.28	7.25	34.146	26.711	137.2	0.578	1.28	18.9	54.8	2.54	34.4	0.00			301
300 ISL	7.27	7.24	34.142	26.713	137.0	0.579	1.27	18.8							302
400	6.58	6.54	34.240	26.882	122.2	0.709									403
500 ISL	5.97	5.93	34.308	27.020	109.9	0.825	0.35	5.1							504
502	5.96	5.92	34.316H	27.023	109.7	0.827	0.35	5.0	81.5	2.97	40.2	0.00			506

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 60							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.1 N	119 57.3 W	23/05/81	0513 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	13.77	13.77	33.693	25.225	273.4	0.000	6.11	103.9							0
2	13.77	13.77	33.693	25.225	273.4	0.005	6.11	103.9	8.8	0.69	5.2	0.20	2.45	0.40	2
10	13.77	13.77	33.687	25.221	274.0	0.027	6.15	104.6	9.0	0.70	5.2	0.21	2.73	0.44	10
19	13.76	13.76	33.681	25.219	274.5	0.052	6.15	104.5	8.9	0.70	5.2	0.21	2.78	0.44	19
20 ISL	13.75	13.75	33.680	25.220	274.4	0.055	6.15	104.5							20
30	13.68	13.68	33.683	25.237	273.1	0.082	6.14	104.2	9.7	0.72	5.6	0.20	2.16	0.56	30
39	13.62	13.61	33.685	25.251	272.0	0.107	6.08	103.1	11.2	0.76	6.2	0.20	2.30	0.46	39
49	13.32	13.31	33.648	25.283	269.2	0.134	5.96	100.4	11.3	0.78	6.5	0.22	1.41	0.45	49
50 ISL	13.27	13.26	33.643	25.292	268.4	0.136	5.91	99.3							50
59	12.63	12.62	33.622	25.400	258.3	0.160	5.32	88.3	13.6	1.01	9.8	0.35	0.55	0.25	59
70	11.57	11.56	33.624	25.603	239.1	0.187	4.71	76.4	16.3	1.20	13.8	0.33	0.43	0.18	70
75 ISL	11.27	11.26	33.592	25.634	236.2	0.199	4.59	74.0							75
79	11.06	11.05	33.572	25.655	234.3	0.209	4.52	72.5	17.3	1.27	15.4	0.19	0.30	0.15	79
99	9.61	9.60	33.702	26.005	201.2	0.252	3.88	60.3	22.9	1.49	20.4	0.07	0.20	0.11	99
100 ISL	9.60	9.59	33.707	26.013	200.5	0.254	3.86	60.0							100
124	9.31	9.30	33.800	26.131	189.8	0.301	3.49	53.9	26.7	1.65	22.7	0.05	0.19	0.09	124
125 ISL	9.30	9.28	33.802	26.137	189.2	0.303	3.47	53.6							125
150 ISL	8.93	8.91	33.942	26.307	173.5	0.348	2.81	43.1							151
151	8.91	8.89	33.952H	26.314	172.8	0.350	2.78	42.6	33.4	1.87	26.1	0.04	0.10	0.09	152

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 60							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 25.0 N	119 57.5 W	23/05/81	1251 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	13.88	13.88	33.677	25.190	276.6	0.000	6.18	105.3	5.2	0.60	3.9	0.19	2.44	0.36	0
10	13.88	13.88	33.671	25.186	277.3	0.028	6.21	105.8	5.2	0.59	3.9	0.19			10
20	13.88	13.88	33.661	25.178	278.4	0.055	6.20	105.6	5.5	0.62	4.0	0.20	2.16	0.19	20
30 ISL	13.86	13.86	33.654	25.178	278.8	0.083	6.21	105.7							30
31	13.86	13.86	33.654	25.177	278.8	0.086	6.21	105.8	6.3	0.64	4.2	0.20	2.06	0.24	31
39	13.84	13.83	33.652	25.180	278.7	0.108	6.16	104.9	6.6	0.65	4.5	0.20	1.96	0.24	39
50	13.71	13.70	33.658	25.212	276.0	0.139	6.02	102.2	10.7	0.77	6.0	0.20	1.25	0.18	50
61	13.54	13.53	33.648	25.239	273.7	0.169	5.88	99.5	11.2	0.82	6.7	0.24	0.91	0.15	61
70	13.22	13.21	33.623	25.285	269.5	0.194	5.64	94.8	12.2	0.89	7.7	0.29	0.38	0.15	70
75 ISL	12.56	12.55	33.599	25.398	258.8	0.207	5.26	87.1							75
79	11.96	11.95	33.591	25.505	248.8	0.217	4.93	80.6	14.1	1.09	12.0	0.40	0.26	0.11	79
100	10.02	10.01	33.650	25.897	211.7	0.265	4.50	70.6	17.5	1.23	15.1	0.27	0.23	0.12	100
124	9.38	9.37	33.780	26.104	192.3	0.314	3.53	54.6	26.2	1.62	22.4	0.05	0.09	0.05	124
125 ISL	9.36	9.35	33.783	26.112	191.6	0.316	3.50	54.1							125
150	9.02	9.00	33.914H	26.267	177.3	0.362	2.92	44.9	31.8	1.82	25.6	0.04	0.09	0.05	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 90 60						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER			DRY	WET	CLOUD	AMT	TYPE
32 25.2 N	119 57.7 W	23/05/81	1736 GMT													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.00	14.00	33.672	25.162	279.4	0.000	6.29	107.4								0
1	14.00	14.00	33.672	25.162	279.4	0.003	6.29	107.4	3.2	0.51	3.1	0.18				1
10	13.98	13.98	33.667	25.162	279.7	0.028	6.30	107.6	3.3	0.52	3.1	0.17				10
20	13.96	13.96	33.655	25.157	280.4	0.056	6.26	106.8	3.8	0.54	3.4	0.18				20
29	13.86	13.86	33.648	25.173	279.1	0.081	6.23	106.1	4.2	0.58	3.8	0.19				29
30 ISL	13.84	13.84	33.647	25.177	278.8	0.084	6.22	105.9								30
40	13.65	13.64	33.652	25.219	275.0	0.112	6.07	102.9	8.4	0.71	5.5	0.19				40
50	13.50	13.49	33.656	25.253	272.1	0.139	5.86	99.1	10.4	0.78	6.7	0.24				50
60	13.18	13.17	33.629	25.297	268.1	0.166	5.51	92.5	11.7	0.93	8.4	0.33				60
70	12.13	12.12	33.573	25.458	252.9	0.192	4.84	79.5	14.4	1.12	12.8	0.40				70
75 ISL	11.60	11.59	33.588	25.571	242.2	0.204	4.56	74.0								75
81	11.00	10.99	33.625	25.707	229.4	0.219	4.29	68.8	17.7	1.28	16.9	0.17				81
100	9.75	9.74	33.679	25.964	205.2	0.260	4.06	63.3	20.2	1.39	19.1	0.11				100
125	9.30	9.29	33.795	26.129	190.0	0.309	3.47	53.6	25.7	1.61	22.6	0.07				125
150 ISL	9.02	9.01	33.884	26.246	179.3	0.355	3.08	47.3								151
152	9.01	8.99	33.894H	26.253	178.7	0.359	3.06	47.0	30.0	1.74	24.7	0.05				153

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 90 60						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER			DRY	WET	CLOUD	AMT	TYPE
32 25.1 N	119 57.6 W	23/05/81	2304 GMT													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	14.16	14.16	33.671	25.127	282.7	0.000	6.32	108.3								0
2	14.16	14.16	33.671	25.127	282.7	0.006	6.32	108.3	2.5	0.47	2.7	0.17				2
10	14.11	14.11	33.633H	25.109	284.7	0.028	6.39	109.4	2.4	0.47	2.7	0.17				10
20	13.84	13.84	33.649	25.177	278.5	0.057	6.38	108.6	2.6	0.49	2.8	0.18				20
29	13.72	13.72	33.666	25.216	275.1	0.081	6.20	105.3	5.3	0.61	4.5	0.19				29
30 ISL	13.71	13.70	33.666	25.219	274.8	0.084	6.18	104.9								30
50	13.08	13.07	33.661	25.342	263.6	0.138	5.64	94.5	11.9	0.88	7.9	0.30				50
74	11.10	11.09	33.624	25.688	231.1	0.197	4.45	71.5	16.4	1.21	15.3	0.27				74
75 ISL	11.03	11.02	33.621	25.700	229.9	0.200	4.42	70.9								75
100	9.71	9.70	33.662	25.958	205.8	0.254	3.86	60.1	22.4	1.46	20.5	0.08				100
125 ISL	9.20	9.18	33.824	26.170	186.0	0.303	3.26	50.3								125
127	9.17	9.16	33.842	26.187	184.5	0.307	3.22	49.6	28.5	1.69	24.1	0.05				128
150	8.58	8.56	33.988	26.394	165.1	0.347	2.81	42.8	33.6	1.87	26.6	0.04				151
199	8.12	8.10	34.100	26.552	150.9	0.424	2.46	37.1	37.9	1.98	28.3	0.03				200
200 ISL	8.11	8.09	34.097	26.554	150.8	0.426	2.45	36.9								201
250	7.62	7.60	34.110	26.634	143.8	0.500										252
300	7.22	7.19	34.133	26.709	137.3	0.570	1.33	19.6	56.2	2.47	34.3	0.02				302
400	6.72	6.68	34.207	26.837	126.5	0.702										403
500	5.96	5.92	34.300H	27.010	110.8	0.821	0.39	5.6	81.2	2.89	39.7	0.02				504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 90 70						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER			DRY	WET	CLOUD	AMT	TYPE
32 5.1 N	120 38.3 W	24/05/81	0916 GMT	3926 M	330	25 KT			1013.2 MB			15.5 C	14.5 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	15.43	15.43	33.551	24.761	317.5	0.000	6.00	105.4	4.6	0.41	0.1	0.01	0.79	0.17		0
10	15.43	15.43	33.547	24.759	318.0	0.032	5.93	104.2	4.6	0.41	0.1	0.01	0.86	0.22		10
20	15.42	15.42	33.533	24.750	319.2	0.064	5.94	104.3	4.8	0.40	0.0	0.01	0.51	0.48		20
30	15.32	15.32	33.519	24.762	318.4	0.096	5.96	104.5	4.7	0.42	0.0	0.02	0.55	0.43		30
50	14.83	14.82	33.493	24.849	310.6	0.158	6.14	106.5	4.1	0.43	0.1	0.02	0.82	0.38		50
75	12.59	12.58	33.508	25.320	266.3	0.231	5.43	90.0	8.4	0.77	5.1	0.31	0.40	0.18		75
100	10.94	10.93	33.551	25.660	234.3	0.293	4.56	72.9	15.4	1.18	13.4	0.10	0.19	0.12		100
125	9.90	9.89	33.688	25.947	207.4	0.348	3.79	59.3	22.5	1.54	19.7	0.03	0.09	0.10		125
150	9.18	9.16	33.886	26.220	181.8	0.397	3.04	46.9	30.9	1.88	24.6	0.02	0.04	0.05		151
199	8.70	8.68	33.992	26.379	167.6	0.483	2.38	36.3	38.4	2.10	28.1	0.03	0.07	0.08		200
200 ISL	8.69	8.67	33.991	26.384	167.2	0.484	2.37	36.1								201
250	8.05	8.02	34.119	26.578	149.4	0.563										252
299	7.69	7.66	34.148	26.655	142.8	0.635	1.30	19.4	53.5	2.57	33.4	0.01				301
300 ISL	7.68	7.65	34.143	26.656	142.7	0.636	1.29	19.3								302
400	6.98	6.94	34.210	26.804	129.8	0.773										403
500 ISL	6.26	6.21	34.286	26.967	115.3	0.895	0.42	6.1								504
501	6.25	6.21	34.294H	26.969	115.1	0.896	0.42	6.1	77.8	2.99	39.1	0.01				505



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 45.1 N	121 18.9 W	24/05/81	1507 GMT	3738 M	340	22 KT	320 6 7	2	1014.6 MB	16.0 C	15.1 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.48	15.48	33.561	24.758	317.8	0.000	5.89	103.6							0	
1	15.48	15.48	33.561	24.758	317.8	0.003	5.89	103.6	4.4	0.39	0.0	0.01	0.22	0.05	1	
10	15.48	15.48	33.538H	24.741	319.8	0.032	5.91	103.9	4.4	0.39	0.0	0.01	0.25	0.05	10	
19	15.48	15.48	33.544	24.746	319.6	0.061	5.94	104.4	4.1	0.39	0.0	0.01	0.27	0.05	19	
20 ISL	15.48	15.48	33.542	24.745	319.7	0.064	5.94	104.4							20	
30	15.48	15.48	33.534	24.738	320.6	0.096	5.94	104.4	4.0	0.39	0.0	0.02	0.24	0.06	30	
49	15.36	15.35	33.512	24.749	320.2	0.157	5.96	104.5	4.1	0.38	0.0	0.01	0.24	0.09	49	
50 ISL	15.34	15.33	33.511	24.754	319.7	0.160	5.96	104.5							50	
75	14.04	14.03	33.535	25.050	292.2	0.236	5.98	102.1	4.7	0.59	2.2	0.12	1.27	0.52	75	
100	11.24	11.23	33.544	25.601	240.0	0.303	4.58	73.7	14.4	1.11	12.6	0.12	0.20	0.27	100	
125	10.44	10.43	33.600	25.787	222.8	0.361	4.20	66.5	18.3	1.31	16.3	0.06	0.12	0.18	125	
150	9.71	9.69	33.729	26.011	201.8	0.414	3.44	53.6	25.9	1.69	22.1	0.03	0.03	0.07	151	
200	8.54	8.52	33.939	26.363	169.1	0.507	3.22	48.9	30.0	1.77	24.2	0.03	0.02	0.04	201	
250	7.89	7.86	34.020	26.524	154.4	0.587									252	
300 ISL	7.30	7.27	34.066	26.649	143.1	0.662	2.00	29.6							302	
301	7.29	7.26	34.072	26.652	142.9	0.663	1.99	29.4	51.7	2.37	32.6	0.02			303	
400	6.48	6.44	34.174	26.843	125.7	0.796									403	
497	5.94	5.90	34.276H	26.994	112.3	0.912	0.45	6.4	81.2	2.96	39.9	0.01			501	
500	5.92	5.88	34.286	27.004	111.4	0.915									504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 25.1 N	121 59.4 W	24/05/81	2206 GMT	4022 M	340	20 KT	330 5 5	2	1015.6 MB	16.9 C	15.5 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	15.76	15.76	33.562	24.697	323.7	0.000	5.83	103.1							0	
2	15.76	15.76	33.562	24.697	323.7	0.006	5.83	103.1	3.7	0.34	0.1	0.02	0.18	0.04	2	
10	15.73	15.73	33.548H	24.693	324.3	0.032	5.88	103.9	3.6	0.33	0.1	0.01	0.15	0.04	10	
20	15.66	15.66	33.545	24.706	323.4	0.065	5.90	104.1	3.3	0.33	0.1	0.02	0.17	0.04	20	
30	15.62	15.62	33.537	24.709	323.4	0.097	5.91	104.2	3.3	0.33	0.1	0.01	0.19	0.06	30	
50	15.43	15.42	33.512	24.733	321.7	0.162	5.95	104.5	3.4	0.33	0.1	0.01	0.26	0.09	50	
75 ISL	13.84	13.83	33.423	25.006	296.3	0.239	5.78	98.2							75	
76	13.76	13.75	33.423	25.021	294.9	0.242	5.77	97.9	4.4	0.45	1.1	0.24	0.53	0.35	76	
100	11.80	11.79	33.482	25.450	254.4	0.308	4.99	81.3	10.3	0.90	9.6	0.07	0.18	0.20	100	
124	10.78	10.77	33.563	25.698	231.2	0.366	4.45	70.9	15.2	1.16	13.9	0.06	0.09	0.16	124	
125 ISL	10.74	10.73	33.564	25.708	230.3	0.368	4.43	70.5							125	
149	9.94	9.92	33.663	25.921	210.4	0.421	3.86	60.4	21.3	1.43	19.3	0.03	0.04	0.06	150	
150 ISL	9.91	9.89	33.665	25.931	209.5	0.423	3.84	60.1							151	
199	8.71	8.69	33.936	26.334	171.8	0.517	2.98	45.5	33.3	1.85	25.8	0.02	0.01	0.01	200	
200 ISL	8.70	8.68	33.935	26.339	171.4	0.518	2.97	45.2							201	
250	8.16	8.13	34.039	26.499	156.9	0.601									252	
299	7.42	7.39	34.074	26.635	144.5	0.674	1.82	27.0	50.6	2.32	32.2	0.02			301	
300 ISL	7.41	7.38	34.070	26.638	144.3	0.676	1.81	26.8							302	
400	6.37	6.33	34.171	26.855	124.5	0.810									403	
500	5.98	5.94	34.303	27.010	110.9	0.928									504	
509	5.93 H	5.89	34.305H	27.018	110.2	0.938	0.34	4.9	82.8	2.96	39.9	0.01			513	

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 90 100					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 5.1 N	122 39.7 W	25/05/81	0345 GMT	4022 M	330	18 KT			1016.6 MB	16.0 C	15.0 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	15.99	15.99	33.526	24.617	331.2	0.000	5.70	101.2	4.4	0.38	0.0	0.03	0.11	0.03	0	
9	15.99	15.99	33.519H	24.612	332.0	0.030	5.84	103.7	4.1	0.38	0.0	0.01	0.11	0.03	9	
10 ISL	15.99	15.99	33.518	24.612	332.0	0.033	5.84	103.8							10	
19	15.94	15.94	33.512	24.618	331.7	0.063	5.87	104.1	4.0	0.37	0.0	0.01	0.19	0.05	19	
20 ISL	15.93	15.93	33.511	24.619	331.6	0.066	5.87	104.2							20	
30	15.79	15.79	33.485	24.632	330.8	0.099	5.90	104.3	3.9	0.37	0.0	0.01	0.13	0.03	30	
49	15.00	14.99	33.438	24.770	318.1	0.161	6.03	105.0	4.7	0.44	0.3	0.10	0.40	0.07	49	
50 ISL	14.94	14.94	33.434	24.781	317.1	0.164	6.02	104.7							50	
75	13.59	13.58	33.438	25.067	290.5	0.240	5.66	95.7	7.0	0.58	3.0	0.20	0.35	0.19	75	
99	12.70	12.69	33.496	25.290	269.8	0.307	5.28	87.7	9.6	0.74	6.3	0.07	0.18	0.15	99	
100 ISL	12.64	12.63	33.494	25.302	268.7	0.310	5.26	87.3							100	
125 ISL	11.07	11.05	33.544	25.635	237.3	0.373	4.62	74.1							125	
126	11.00	10.98	33.551	25.650	235.9	0.376	4.59	73.5	16.6	1.16	14.2	0.03	0.06	0.05	126	
150	9.50	9.48	33.700	26.023	200.6	0.428	3.64	56.4	26.1	1.61	22.0	0.00	0.02	0.03	151	
200 ISL	8.53	8.51	33.907	26.342	171.0	0.521	3.06	46.5							201	
201	8.53	8.51	33.914	26.344	170.8	0.523	3.06	46.5	34.9	1.86	26.0	0.00	0.02	0.02	202	
250	7.84	7.82	33.993	26.510	155.7	0.603									252	
300	7.06	7.03	33.970	26.603	147.3	0.679	2.53	37.2	50.4	2.19	31.4	0.00			302	
400	6.03	6.00	34.053	26.805	128.8	0.817									403	
500 ISL	5.57	5.52	34.189	26.976	113.5	0.938	0.61	8.6							504	
503	5.56	5.52	34.201H	26.981	113.1	0.941	0.57	8.1	84.9	2.94	40.8	0.00			507	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 26.7					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 57.4 N	117 18.3 W	28/05/81	0113 GMT	65 M	290	06 KT	290 02 03	1	1013.5 MB	18.8 C	16.2 C	4/8	CU			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	19.36	19.36	33.589	23.853	404.1	0.000									0	
10	18.45 H	18.45	33.645H	24.125	378.5	0.039	5.73	106.7	3.3	0.30	0.1	0.04	0.49	0.08	10	
20	14.26	14.26	33.537	25.003	295.0	0.073									20	
30	12.15	12.15	33.546	25.433	254.4	0.100									30	
40	11.20	11.20	33.676	25.710	228.2	0.124									40	
50	10.75 H	10.74	33.709H	25.816	218.3	0.147	3.21	51.2	23.5	1.64	19.3	0.16	0.20	0.22	50	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 30					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 50.8 N	117 31.9 W	28/05/81	0444 GMT	787 M	240	3 KT			1013.9 MB	17.7 C	15.8 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	18.44	18.44	33.633	24.118	378.8	0.000	5.65	105.2	2.7	0.32	0.0	0.03	0.20	0.03	0	
9	18.22	18.22	33.586	24.137	377.3	0.034	5.69	105.5	2.7	0.31	0.0	0.02	0.21	0.04	9	
10 ISL	18.12	18.12	33.585	24.162	375.0	0.038	5.75	106.4							10	
20	16.49	16.49	33.561	24.531	340.1	0.073	6.21	111.4	3.1	0.36	0.0	0.02	0.30	0.09	20	
30	14.01	14.01	33.438	24.979	297.6	0.105	5.58	95.2	5.4	0.66	4.2	0.21	1.63	0.59	30	
50	11.49	11.48	33.540	25.552	243.5	0.159	3.95	64.0	18.5	1.35	15.7	0.15	0.14	0.17	50	
75	10.16	10.15	33.781	25.975	203.7	0.215	3.14	49.4	26.2	1.73	21.5	0.04	0.07	0.15	75	
100	9.87	9.86	33.868	26.092	193.1	0.265	2.91	45.6	29.6	1.87	23.2	0.03	0.02	0.10	100	
125	9.69	9.68	33.975	26.206	182.8	0.312	2.64	41.2	31.8	1.97	24.7	0.03	0.02	0.06	125	
150	9.65	9.65	34.068	26.286	175.8	0.357	2.15	33.5	35.2	2.13	26.4	0.03	0.01	0.08	151	
200 ISL	9.33	9.31	34.128	26.390	166.8	0.442	1.88	29.1							201	
201	9.32	9.30	34.133	26.392	166.7	0.444	1.88	29.1	37.2	2.22	27.3	0.03	0.02	0.10	202	
250	9.12	9.09	34.185	26.465	160.7	0.524									252	
300	8.80	8.77	34.216	26.541	154.3	0.603	1.25	19.1	46.8	2.50	30.3	0.01			302	
400	7.78	7.74	34.222	26.701	140.3	0.750									403	
497	6.60	6.55	34.256	26.893	122.6	0.878	0.50	7.3	73.1	2.96	37.9	0.01			501	
500	6.59	6.54	34.262	26.899	122.0	0.882									504	

66/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 30.8 N	118 12.4 W	28/05/81	1146 GMT	1664 M	290	13 KT	300 2 5	2	1013.5 MB	16.7 C	14.8 C	8/8	ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.87	17.87	33.656	24.275	363.8	0.000	5.71	105.2	3.3	0.29	0.2	0.02	0.24	0.06	0	
10	17.88	17.88	33.644	24.264	365.2	0.036	5.73	105.6	3.1	0.29	0.0	0.02	0.23	0.06	10	
20	16.99	16.99	33.577	24.426	350.1	0.072	5.92	107.2	3.2	0.33	0.1	0.02	0.27	0.07	20	
30	15.21	15.21	33.466	24.745	319.9	0.106	6.06	105.9	4.6	0.44	0.7	0.08	0.79	0.17	30	
50 ISL	12.07	12.06	33.548	25.452	253.0	0.163	4.59	75.2							51	
51	11.94	11.93	33.560	25.484	250.0	0.166	4.49	73.4	13.8	1.12	11.9	0.37	0.80	0.63	51	
75	10.53	10.52	33.692	25.842	216.4	0.222	3.48	55.2	22.6	1.58	19.7	0.06	0.12	0.20	75	
100 ISL	9.70	9.69	33.805	26.072	194.9	0.273	3.35	52.3							100	
101	9.68	9.67	33.811	26.079	194.3	0.275	3.35	52.2	25.7	1.73	21.9	0.03	0.02	0.06	101	
125	9.41	9.40	33.919	26.208	182.5	0.320	2.90	44.9	29.6	1.89	24.3	0.02	0.01	0.08	125	
150	9.05	9.03	33.991	26.323	172.1	0.364	2.48	38.1	35.0	2.06	27.0	0.01	0.01	0.04	151	
200 ISL	8.43	8.41	34.048	26.468	159.1	0.447	2.36	35.8							201	
201	8.42	8.40	34.053	26.470	158.9	0.449	2.36	35.8	37.0	2.12	27.8	0.01	0.01	0.04	202	
250	7.94	7.91	34.104	26.583	148.9	0.524									252	
299	8.02	7.99	34.222	26.665	142.1	0.596	0.88	13.2	53.9	2.71	33.0	0.01			301	
300 ISL	8.01	7.98	34.217	26.666	142.0	0.597	0.88	13.2							302	
400	7.14	7.10	34.241	26.807	129.7	0.733									403	
490	6.58	6.53	34.304	26.934	118.6	0.845	0.36	5.2	72.6	3.02	38.1	0.02			494	
500	6.53	6.48	34.303	26.939	118.2	0.856									504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 31.0 N	118 12.4 W	28/05/81	1730 GMT													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.82	17.82	33.642	24.277	363.6	0.000	5.70	104.9							0	
10	17.81	17.81	33.636	24.275	364.2	0.036	5.76	106.0							10	
20	15.89	15.89	33.584	24.685	325.4	0.071	6.11	108.3							20	
30	14.43	14.43	33.451	24.902	305.0	0.102	5.70	98.1							30	
50 ISL	12.23	12.22	33.524	25.402	257.7	0.159	4.35	71.5							50	
51	12.14	12.13	33.536	25.427	255.4	0.161	4.28	70.3							51	
75	10.27	10.26	33.724	25.911	209.8	0.217	3.53	55.7							75	
100	9.86	9.85	33.876	26.100	192.4	0.267	3.02	47.3							100	
125	9.42	9.41	33.992	26.264	177.3	0.314	2.66	41.3							125	
150	9.08	9.06	34.062	26.374	167.3	0.357	2.30	35.4							151	
200	8.28	8.26	34.089	26.520	154.1	0.437	1.97	29.8							201	
250	8.51	8.48	34.218	26.587	148.8	0.513									252	
300	8.03	8.00	34.241	26.678	140.9	0.585									302	
400	7.20	7.16	34.274	26.824	128.1	0.720									403	
496	6.57	6.52	34.320	26.948	117.4	0.837	0.34	4.9							500	
500	6.53	6.48	34.324	26.956	116.6	0.842									504	



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.8 N	118 12.8 W	28/05/81	2250 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.88	17.88	33.641	24.261	365.1	0.000	5.71	105.2	2.2	0.28	0.1	0.02			0
10	17.87	17.87	33.627	24.254	366.2	0.037	5.77	106.3	2.2	0.27	0.1	0.03			10
20	17.49	17.49	33.524	24.267	365.3	0.075	5.90	107.8	2.5	0.31	0.1	0.03			20
29	14.74	14.74	33.544	24.907	304.4	0.103	6.11	105.9	3.8	0.43	0.8	0.08			29
30	14.54	14.53	33.543	24.950	300.4	0.106	6.06	104.6							30
50	12.04	12.03	33.543	25.452	253.1	0.162	4.62	75.7	11.9	1.05	10.8	0.37			50
75	10.35	10.34	33.685	25.867	214.0	0.220	3.60	56.9	22.5	1.56	19.7	0.05			75
100	9.84	9.83	33.839	26.074	194.8	0.271	3.03	47.4	28.0	1.80	23.0	0.03			100
124	9.66	9.65	33.954	26.195	183.8	0.317	2.69	41.9	31.4	1.95	25.0	0.03			124
125	9.64	9.63	33.956	26.201	183.3	0.319	2.68	41.7							125
150	9.16	9.14	34.052	26.353	169.3	0.363	2.40	37.0	36.2	2.08	27.0	0.02			151
199	8.44	8.42	34.076	26.485	157.4	0.443	2.05	31.1	44.2	2.28	29.7	0.02			200
200	8.44	8.42	34.075	26.488	157.2	0.444	2.04	30.9							201
250	8.54	8.51	34.219	26.583	149.2	0.521									252
300	8.05	8.02	34.221	26.663	142.3	0.594	0.89	13.4							302
302	8.03	8.00	34.226	26.666	142.0	0.597	0.87	13.1	55.9	2.72	33.0	0.02			304
400	7.43	7.39	34.265	26.785	132.1	0.731									403
500	6.57	6.52	34.317	26.951	117.1	0.855	0.37	5.5							504
502	6.55	6.50	34.326	26.955	116.8	0.858	0.37	5.4	76.5	3.02	38.3	0.01			506

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.8 N	118 12.7 W	29/05/81	0440 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.93	17.93	33.643	24.251	366.1	0.000	5.71	105.3	3.6	0.26	0.1	0.02	0.22	0.06	0
10	17.67	17.67	33.625	24.301	361.7	0.036	5.77	105.9	3.4	0.25	0.1	0.03	0.23	0.05	10
20	15.02	15.02	33.547	24.849	309.8	0.070	6.14	107.0	3.3	0.34	0.1	0.03	1.40	0.30	20
30	13.67	13.67	33.495	25.094	286.7	0.100	5.65	95.8	4.7	0.58	3.3	0.18	1.37	0.53	30
39	12.43	12.42	33.504	25.347	262.8	0.125	4.76	78.6	10.8	0.98	9.4	0.41	1.14	0.66	39
50	11.31	11.30	33.605	25.635	235.6	0.152	4.06	65.5	16.9	1.30	14.9	0.20	0.45	0.40	50
60	10.73	10.72	33.641	25.767	223.2	0.175	3.90	62.1	19.3	1.41	17.0	0.08	0.22	0.32	60
69	10.54	10.53	33.654	25.810	219.3	0.195	3.94	62.5	19.8	1.40	17.3	0.06	0.20	0.22	69
75	10.22	10.21	33.708	25.910	209.9	0.208	3.81	60.1							75
79	9.99	9.98	33.756	25.984	202.9	0.216	3.70	58.0	21.7	1.52	19.0	0.04	0.19	0.23	79
99	9.68	9.67	33.934	26.175	185.2	0.255									99
100	9.67	9.66	33.935	26.179	184.8	0.257	3.16	49.3							100
125	9.50	9.49	33.992	26.251	178.5	0.302	2.63	40.9	31.5	1.95	24.9	0.02	0.03	0.05	125
150	9.15	9.13	34.085H	26.381	166.6	0.345	2.34	36.1	35.7	2.09	27.0	0.02	0.02	0.05	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 31.0 N	118 12.9 W	29/05/81	1240 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.94	17.94	33.641	24.247	366.5	0.000	5.77	106.4	2.6	0.31	0.1	0.02	0.25	0.04	0
9	17.94	17.94	33.631	24.240	367.5	0.033	5.77	106.4	2.5	0.29	0.1	0.02	0.23	0.06	9
10	17.92	17.92	33.642	24.254	366.2	0.037	5.78	106.5							10
20	17.01	17.01	33.540	24.393	353.3	0.075	5.90	106.9	2.6	0.30	0.1	0.02	0.31	0.07	20
30	14.35	14.35	33.488	24.947	300.7	0.105	6.17	106.0	2.6	0.33	0.0	0.02	0.70	0.18	30
40	12.61	12.60	33.512	25.318	265.5	0.134	5.49	91.0	5.1	0.68	4.1	0.22	1.44	0.46	40
50	11.88	11.87	33.555	25.491	249.3	0.159	4.50	73.5	13.0	1.13	11.1	0.38	0.89	0.61	50
60	11.13	11.12	33.596	25.661	233.3	0.184	3.97	63.8	18.5	1.40	16.2	0.09	0.21	0.32	60
70	10.72	10.71	33.686	25.804	219.9	0.206	3.60	57.4	21.3	1.53	18.2	0.04	0.16	0.19	70
75	10.55	10.54	33.710	25.854	215.2	0.217	3.50	55.6							75
81	10.37	10.36	33.738	25.905	210.5	0.230	3.42	54.1	22.8	1.63	19.4	0.03	0.12	0.18	81
100	9.98	9.97	33.843	26.054	196.7	0.269	3.12	49.0	26.9	1.80	22.0	0.02	0.04	0.09	100
125	9.69	9.68	33.948	26.185	184.8	0.316	2.75	42.9	30.1	1.94	24.3	0.02	0.01	0.06	125
150	9.47	9.45	34.086H	26.330	171.6	0.361	2.32	36.0	34.6	2.14	26.5	0.02	0.01	0.08	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.9 N	118 12.6 W	29/05/81	1734 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.04	18.04	33.648	24.228	368.3	0.000	5.76	106.4	1.9	0.27	0.1	0.02			0
10	18.02	18.02	33.654H	24.238	367.7	0.037	5.81	107.3	1.9	0.27	0.1	0.02			10
20	15.77	15.77	33.408	24.576	335.8	0.072	6.17	109.0	1.9	0.29	0.1	0.02			20
30	13.55	13.55	33.481	25.107	285.4	0.103	5.71	96.5	3.5	0.60	3.0	0.17			30
39	12.50	12.49	33.556	25.374	260.2	0.128	5.18	85.7	7.0	0.82	6.4	0.37			39
50	11.57	11.56	33.595	25.580	240.9	0.155	4.07	66.0	15.2	1.24	13.2	0.36			50
60	10.91	10.90	33.665	25.754	224.5	0.178	3.66	58.6	20.1	1.51	18.0	0.06			60
69	10.58	10.57	33.704	25.842	216.2	0.198	3.46	55.0	22.1	1.60	19.4	0.05			69
75	10.27	10.26	33.745	25.929	208.0	0.211	3.36	53.1							75
80	10.03	10.02	33.787	26.001	201.3	0.221	3.29	51.7	25.2	1.73	21.4	0.03			80
100	9.79	9.78	33.903	26.133	189.3	0.260	2.99	46.7	28.0	1.86	23.2	0.03			100
125	9.48	9.47	34.026	26.281	175.7	0.306	2.54	39.5	32.3	2.02	25.4	0.02			125
150	9.19	9.17	34.122H	26.403	164.5	0.348	2.20	34.0	36.6	2.18	27.3	0.02			151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105								STATION 93 40			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.8 N	118 12.8 W	29/05/81	2301 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.16	18.16	33.631	24.186	372.3	0.000	5.67	105.0	2.7	0.27	0.1	0.02			0
10	18.00	18.00	33.630	24.224	369.0	0.037	5.73	105.8	2.7	0.26	0.1	0.02			10
20	15.58	15.58	33.548	24.727	321.5	0.072	6.15	108.4	2.7	0.33	0.0	0.03			20
30	14.40	14.40	33.555	24.988	296.8	0.103	6.00	103.3	3.2	0.42	0.3	0.05			30
50	12.08	12.07	33.556	25.454	252.8	0.157	4.75	77.9	10.7	0.96	8.0	0.53			50
74	10.85	10.84	33.650	25.753	224.9	0.215	3.54	56.6	20.6	1.53	18.0	0.06			74
75 ISL	10.81	10.80	33.651	25.762	224.0	0.217	3.53	56.4							75
100	10.05	10.04	33.752	25.971	204.6	0.271	3.39	53.2	24.8	1.70	20.7	0.03			100
125 ISL	9.61	9.60	33.931	26.187	184.6	0.319	2.71	42.2							125
126	9.60	9.59	33.941	26.194	183.9	0.321	2.68	41.7	31.3	1.98	24.6	0.02			126
150	9.40	9.38	34.029	26.296	174.7	0.364	2.28	35.4	35.3	2.14	26.7	0.02			151
200 ISL	9.05	9.03	34.173	26.470	159.1	0.448	1.56	24.1							201
201	9.04	9.02	34.180	26.473	158.9	0.449	1.55	23.9	41.8	2.42	28.8	0.02			202
250	8.41	8.38	34.212	26.597	147.8	0.524									252
299	7.99	7.96	34.227	26.673	141.3	0.595	0.87	13.1	54.3	2.76	32.6	0.01			301
300 ISL	7.98	7.95	34.221	26.674	141.2	0.597	0.87	13.0							302
400	7.30	7.26	34.260	26.800	130.6	0.732									403
500	6.47	6.42	34.343H	26.979	114.4	0.855	0.35	5.1	75.4	3.11	38.3	0.01			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105								STATION 93 40			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.8 N	118 13.2 W	30/05/81	0514 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.03	18.03	33.635	24.220	369.0	0.000	5.64	104.2	2.5	0.27	0.1	0.03	0.33	0.06	0
10	17.65	17.65	33.580	24.271	364.5	0.037	5.72	104.9	2.4	0.27	0.1	0.03	0.30	0.04	10
20	14.48	14.48	33.490	24.921	302.9	0.070	6.12	105.5	2.6	0.34	0.1	0.03	0.84	0.12	20
30	13.17	13.17	33.521	25.215	275.2	0.099	5.46	91.6	5.8	0.62	3.0	0.22	1.76	0.49	30
40	11.93	11.92	33.550	25.478	250.3	0.125	4.68	76.5	11.3	0.98	8.7	0.55	1.04	0.55	40
50	11.13	11.12	33.574	25.643	234.7	0.149	3.81	61.2	17.5	1.36	15.1	0.15	0.47	0.37	50
60	10.61	10.60	33.659	25.802	219.9	0.172	3.87	61.5	19.9	1.43	17.5	0.07	0.24	0.27	60
70	10.31	10.30	33.716	25.898	210.9	0.194	3.52	55.6	22.9	1.59	19.6	0.05	0.13	0.16	70
75 ISL	10.15	10.14	33.746	25.952	205.9	0.204	3.51	55.2							75
80	10.00	9.99	33.781	26.002	201.3	0.214	3.50	54.9	24.0	1.62	20.3	0.04	0.10	0.15	80
100	9.87	9.86	33.880	26.101	192.2	0.254	2.88	45.1	28.2	1.87	23.3	0.02	0.09	0.11	100
125	9.48	9.47	33.985	26.249	178.7	0.300	2.75	42.7	31.9	1.99	25.1	0.02	0.06	0.08	125
150	9.12	9.10	34.096H	26.394	165.4	0.343	2.29	35.3	36.6	2.14	27.2	0.02	0.02	0.04	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105								STATION 93 40			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 30.8 N	118 12.8 W	30/05/81	0851 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.93	17.93	33.606	24.223	368.8	0.000	5.71	105.3	2.8	0.26	0.1	0.03	0.22	0.05	0
10	17.93	17.93	33.589	24.210	370.3	0.037	5.73	105.6	2.8	0.27	0.1	0.03	0.15	0.09	10
20	16.51	16.51	33.524	24.497	343.3	0.073	6.11	109.6	3.4	0.36	0.1	0.03	0.64	0.14	20
30	14.85	14.85	33.389	24.764	318.1	0.106	5.95	103.2	3.4	0.44	0.7	0.08	1.94	0.43	30
50	12.00	11.99	33.462	25.396	258.3	0.163	4.16	68.1	15.9	1.25	14.0	0.17	0.30	0.37	50
75	10.47	10.46	33.665	25.831	217.4	0.223	3.49	55.3	22.1	1.59	19.2	0.05	0.10	0.18	75
99	9.86	9.85	33.782	26.027	199.3	0.273	3.05	47.7	27.0	1.81	22.5	0.02	0.02	0.07	99
100 ISL	9.84	9.83	33.786	26.035	198.5	0.275	3.04	47.5							100
125	9.40	9.39	33.938	26.225	181.0	0.322	2.72	42.2	31.7	1.99	25.2	0.01	0.01	0.04	125
150 ISL	9.19	9.17	34.003	26.313	173.1	0.367	2.42	37.4							151
151	9.18	9.16	34.008	26.315	172.9	0.368	2.41	37.2	34.4	2.09	26.5	0.01	0.01	0.04	152
199	8.74	8.72	34.112	26.467	159.3	0.448	1.68	25.7	42.2	2.38	29.4	0.03	0.02	0.05	200
200 ISL	8.73	8.71	34.108	26.470	159.0	0.450	1.67	25.5							201
250	8.18	8.15	34.141	26.576	149.6	0.527									252
300	7.98	7.95	34.204	26.656	142.9	0.600	0.87	13.1	54.3	2.76	33.0	0.01			302
400	7.27	7.23	34.228	26.779	132.5	0.738									403
500	6.52	6.47	34.275	26.919	120.1	0.864	0.36	5.2	75.0	3.08	38.3	0.01			504



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 93 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
32 10.8 N	118 53.6 W	30/05/81	1510 GMT	1479 M	340	11 KT	310 4 5	2	1012.9 MB	15.7 C	14.2 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	16.12	16.12	33.620	24.660	327.1	0.000	5.72	101.9	3.5	0.38	0.4	0.05	0.34	0.08	0
10	16.13	16.13	33.612	24.652	328.2	0.033	5.75	102.4	3.2	0.38	0.4	0.06	0.34	0.09	10
20	14.56	14.56	33.583	24.976	297.7	0.064	5.77	99.6							20
21	14.38	14.38	33.584	25.015	294.0	0.067	5.77	99.3	11.3	0.78	5.4	0.22	1.32	0.04	21
30	13.41	13.41	33.616	25.240	272.8	0.092	5.42	91.4	13.0	0.97	8.2	0.32	1.00	0.00	30
50	12.26	12.25	33.524	25.395	258.5	0.146	4.82	79.3	15.2	1.17	11.9	0.40	0.33	0.11	50
75	10.24	10.23	33.674	25.878	212.9	0.205	3.37	53.1	24.0	1.65	21.0	0.09	0.15	0.15	75
99	9.70	9.69	33.789	26.059	196.2	0.254	2.89	45.0	28.4	1.85	24.0	0.05	0.05	0.08	99
100	9.68	9.67	33.793	26.067	195.4	0.256	2.87	44.7							100
125	9.18	9.17	33.944	26.265	177.1	0.302	2.41	37.2	34.0	2.04	26.8	0.04	0.01	0.06	125
150	8.80	8.78	34.015	26.381	166.5	0.345	2.19	33.5	37.6	2.18	28.4	0.03	0.01	0.04	151
200	8.42	8.40	34.083	26.494	156.6	0.426	1.64	24.9	43.6	2.39	30.6	0.02	0.01	0.06	201
250	7.79	7.77	34.129	26.625	144.9	0.501									252
300	7.29	7.26	34.144	26.708	137.5	0.572	0.90	13.3	59.2	2.72	34.9	0.03			302
400	6.60	6.56	34.195	26.844	125.7	0.703									403
500	5.97	5.93	34.273	26.988	113.0	0.823	0.37	5.3	82.5	3.08	37.6	0.02			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 93 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.8 N	119 34.3 W	31/05/81	0131 GMT	1949 M	340	26 KT	320 6 5	2	1014.6 MB	15.9 C	14.5 C	8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	15.04	15.04	33.563	24.856	308.4	0.000	5.98	104.3	2.0	0.45	0.3	0.06	0.65	0.04	0
10	15.01	15.01	33.579H	24.875	306.9	0.031	6.08	105.9	2.0	0.45	0.3	0.05	0.58	0.05	10
19	14.96	14.96	33.576	24.884	306.4	0.058	6.11	106.4	2.3	0.44	0.3	0.06	0.65	0.04	19
20	14.90	14.89	33.580	24.902	304.7	0.061	6.10	106.0							20
30	14.10	14.10	33.632	25.111	285.1	0.091	5.92	101.3	5.5	0.77	3.5	0.16	0.66	0.14	30
49	13.14	13.13	33.612	25.292	268.4	0.143	5.50	92.3	11.3	0.96	6.9	0.31	0.22	0.28	49
50	13.08	13.07	33.606	25.301	267.5	0.146	5.48	91.7							50
75	11.48	11.47	33.550	25.562	243.1	0.210	4.71	76.2	15.3	1.19	12.5	0.43	0.22	0.26	75
99	10.18	10.17	33.661	25.878	213.4	0.265	3.67	57.8	22.8	1.58	19.6	0.06	0.07	0.15	99
100	10.14	10.13	33.665	25.890	212.3	0.267	3.64	57.3							100
124	9.42	9.41	33.817	26.127	190.2	0.315	3.11	48.2	29.0	1.81	23.3	0.04	0.06	0.18	124
125	9.40	9.38	33.818	26.134	189.6	0.317	3.09	47.9							125
150	8.89	8.87	33.902	26.279	176.2	0.363	2.74	42.0	34.5	1.98	26.3	0.02	0.04	0.14	151
199	8.26	8.24	34.051	26.493	156.6	0.444									200
200	8.24	8.22	34.047	26.496	156.4	0.446	2.18	33.0							201
250	7.52	7.50	34.040	26.593	147.6	0.522									252
300	7.25	7.22	34.056	26.648	143.1	0.595	1.38	20.3							302
301	7.25	7.22	34.062	26.649	143.0	0.596	1.37	20.2	57.9	2.62	34.0	0.02			303
400	6.65	6.61	34.181	26.826	127.5	0.730									403
500	6.07	6.03	34.312	27.011	110.9	0.849	0.35	5.0							504
504	6.05	6.01	34.325H	27.019	110.2	0.854	0.34	4.9	82.7	3.11	39.6	0.01			508

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 93 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 51.0 N	119 34.8 W	31/05/81	0459 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	15.05	15.05	33.589	24.874	306.7	0.000									0
10	15.04	15.04	33.579H	24.869	307.5	0.031	6.03	105.1	2.6	0.41	0.4	0.06	0.86	0.13	10
20	14.98	14.98	33.574	24.878	307.0	0.061	6.07	105.7	2.5	0.41	0.4	0.06	0.74	0.04	20
29	14.32	14.32	33.608	25.046	291.2	0.088	6.00	103.1	3.7	0.68	2.7	0.16	0.72	0.13	29
30	14.25	14.24	33.611	25.064	289.5	0.091	5.97	102.4							30
40	13.59	13.58	33.630	25.215	275.5	0.120	5.63	95.3	10.7	0.90	5.7	0.22	0.43	0.20	40
50	13.10	13.09	33.586	25.280	269.5	0.147	5.49	92.0	11.6	0.95	7.1	0.33	0.24	0.14	50
60	12.45	12.44	33.550	25.379	260.3	0.173	5.13	84.8	13.0	1.04	9.5	0.44			60
70	11.80	11.79	33.559	25.510	248.0	0.199	4.77	77.7	14.8	1.16	12.2	0.47	0.22	0.23	70
75	11.35	11.34	33.567	25.600	239.5	0.211	4.59	74.2							75
80	10.92	10.91	33.584	25.689	231.1	0.223	4.42	70.7	17.0	1.29	15.3	0.15	0.10	0.09	80
100	10.14	10.13	33.669	25.891	212.2	0.267	3.74	58.8	21.9	1.53	19.4	0.07	0.10	0.11	100
125	9.38	9.37	33.804	26.123	190.5	0.317	3.12	48.3	28.2	1.79	23.3	0.05	0.08	0.10	125
149	8.80	8.78	33.919H	26.306	173.6	0.361	2.81	43.0	33.3	1.96	26.0	0.03	0.05	0.07	150

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.8 N	119 34.1 W	31/05/81	1241 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.93	14.93	33.582H	24.895	304.8	0.000	6.04	105.1	1.3	0.41	0.3	0.06	0.63	0.05	0
10	14.94	14.94	33.585H	24.895	305.0	0.030	6.04	105.1	1.3	0.41	0.3	0.06	0.68	0.06	10
20	14.93	14.93	33.584H	24.897	305.2	0.061	6.07	105.6	1.4	0.41	0.4	0.07	0.69	0.04	20
30	14.86	14.86	33.586H	24.914	303.9	0.091	6.10	106.0	1.2	0.41	0.4	0.07	0.77	0.02	30
40	13.97	13.96	33.593H	25.108	285.6	0.121	6.11	104.2	1.3	0.45	0.7	0.08	0.87	0.06	40
50	13.59	13.58	33.632H	25.216	275.6	0.149	6.01	101.8	3.7	0.71	3.9	0.20	0.70	0.18	50
61	12.45	12.44	33.526	25.361	262.0	0.179	5.82	96.2	7.0	0.87	4.9	0.24	0.82	0.35	61
70	12.09	12.08	33.536H	25.437	254.9	0.202	5.32	87.2	10.4	0.98	8.4	0.45	0.84	0.40	70
75 ISL	11.78	11.77	33.543	25.503	248.8	0.214	5.19	84.5							75
80	11.44	11.43	33.555H	25.573	242.2	0.227	5.10	82.5	11.8	1.05	9.7	0.47	0.39	0.25	80
100	10.25	10.24	33.569H	25.794	221.4	0.273	4.62	72.8	14.5	1.23	13.5	0.38	0.12	0.16	100
125	9.42	9.41	33.797	26.111	191.7	0.325	4.09	63.4	18.3	1.41	17.6	0.12	0.10	0.17	125
150	8.86	8.84	33.848H	26.241	179.8	0.371	3.03	46.4	28.7	1.87	24.3	0.04	0.05	0.13	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.7 N	119 34.0 W	31/05/81	1751 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.87	14.87	33.686	24.988	295.9	0.000	6.16	107.1	1.7	0.44	0.4	0.06			0
10	14.87	14.87	33.679	24.983	296.7	0.030	6.17	107.3	1.6	0.44	0.4	0.06			10
20	14.83	14.83	33.674	24.988	296.5	0.059	6.18	107.4	1.6	0.45	0.6	0.06			20
30	13.82	13.82	33.712	25.231	273.7	0.088	5.87	99.9	4.6	0.65	3.3	0.16			30
50	12.50	12.49	33.630	25.431	255.0	0.141	5.27	87.2	11.5	0.97	8.2	0.44			50
75	11.16	11.15	33.661	25.706	229.4	0.201	4.35	70.0	17.4	1.33	16.1	0.10			75
99	10.08	10.07	33.761	25.973	204.4	0.253	3.46	54.4	23.9	1.65	21.1	0.05			99
100 ISL	10.05	10.04	33.764	25.983	203.5	0.255	3.44	54.1							100
125 ISL	9.38	9.37	33.904	26.203	183.0	0.304	3.12	48.3							125
126	9.36	9.35	33.912	26.211	182.3	0.305	3.11	48.1	28.8	1.82	24.0	0.02			126
150	8.86	8.84	34.011	26.368	167.7	0.347	2.76	42.3	34.4	1.99	26.6	0.01			151
200	8.36	8.34	34.122	26.533	152.9	0.428	2.35	35.6	41.1	2.16	29.2	0.01			201
250	7.59	7.57	34.132	26.656	141.8	0.501									252
300	7.12	7.09	34.206	26.781	130.5	0.569	1.35	19.9	57.9	2.62	34.4	0.01			302
400	6.56	6.52	34.286	26.921	118.5	0.694									403
500	6.05	6.01	34.382	27.064	106.0	0.806	0.41	5.9	71.8	3.05	39.7	0.00			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.8 N	119 34.3 W	31/05/81	2256 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.73	14.73	33.631	24.976	297.1	0.000	6.15	106.6	2.5	0.49	0.7	0.09			0
10	14.74	14.74	33.622	24.967	298.2	0.030	6.19	107.3	2.5	0.48	0.7	0.09			10
20	14.72	14.72	33.614	24.965	298.7	0.060	6.17	106.9	2.8	0.50	0.7	0.09			20
30	14.69	14.69	33.580	24.946	300.8	0.090	6.17	106.8	2.7	0.49	0.8	0.09			30
50	13.28	13.27	33.594	25.250	272.4	0.147	5.73	96.4	9.2	0.87	5.4	0.24			50
75	11.31	11.30	33.576	25.613	238.3	0.211	4.69	75.6	15.5	1.21	12.9	0.17			75
100	10.05	10.04	33.699	25.930	208.6	0.267	3.63	57.0	23.1	1.59	20.1	0.07			100
125	9.24	9.23	33.862	26.191	184.1	0.316	3.08	47.5	29.4	1.85	24.1	0.03			125
150	8.77	8.75	33.960	26.343	170.1	0.360	2.72	41.6	34.6	2.02	26.6	0.03			151
200	8.45	8.43	34.066	26.476	158.3	0.442	2.22	33.7	40.4	2.20	29.0	0.02			201
250	7.65	7.63	34.068	26.597	147.4	0.518									252
300	7.22	7.19	34.113	26.694	138.8	0.590	1.48	21.8	56.2	2.57	33.8	0.03			302
400	6.49	6.45	34.225	26.882	122.1	0.720									403
500	5.95	5.91	34.344	27.046	107.5	0.835									504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.8 N	119 34.2 W	01/06/81	0516 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.59	14.59	33.585	24.970	297.6	0.000	6.12	105.8	2.4	0.50	0.8	0.09	1.37	0.04	0
10	14.59	14.59	33.588H	24.973	297.6	0.030	6.16	106.4	2.6	0.45	0.8	0.09	1.20	0.04	10
19	14.58	14.58	33.565	24.958	299.4	0.057	6.15	106.2	2.3	0.45	0.8	0.09	1.16	0.09	19
20 ISL	14.58	14.58	33.566	24.959	299.3	0.060	6.15	106.3							20
30	14.57	14.57	33.581	24.972	298.3	0.090	6.18	106.7	2.3	0.47	0.9	0.09	1.14	0.11	30
40	13.70	13.69	33.573	25.148	281.8	0.119	5.69	96.5	6.5	0.69	4.3	0.18	0.63	0.19	40
50	13.19	13.18	33.554	25.237	273.6	0.146	5.73	96.2	8.0	0.84	5.5	0.24	0.50	0.25	50
60	12.12	12.11	33.536	25.431	255.3	0.173	5.00	82.0	12.5	1.02	10.0	0.43	0.35	0.24	60
70	11.56	11.55	33.450	25.469	251.8	0.198	4.72	76.5	14.4	1.12	12.4	0.30	0.21	0.22	70
75 ISL	11.25	11.24	33.487	25.555	245.7	0.210	4.57	73.6							75
81	10.90	10.89	33.559	25.673	232.6	0.225	4.37	69.9	17.2	1.32	16.0	0.05	0.09	0.14	81
99	10.12	10.11	33.646	25.877	213.6	0.265	3.65	57.4	22.4	1.55	20.2	0.05	0.05	0.14	99
100 ISL	10.09	10.08	33.648	25.885	212.8	0.267	3.63	57.0							100
125	9.51	9.50	33.768	26.074	195.3	0.318	3.19	49.5	27.1	1.76	23.2	0.04	0.06	0.13	125
150	8.87	8.85	33.938H	26.310	173.2	0.364	2.75	42.1	33.5	1.97	26.4	0.02	0.03	0.10	151

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.9 N	119 34.3 W	01/06/81	1250 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.64	14.64	33.574	24.951	299.4	0.000	6.13	106.0	2.3	0.47	0.8	0.08	1.17	0.09	0
10	14.64	14.64	33.576	24.953	299.5	0.030	6.14	106.2	2.3	0.48	0.8	0.09	1.05	0.14	10
20	14.63	14.63	33.566	24.948	300.4	0.060	6.15	106.3	2.3	0.49	0.8	0.08	1.08	0.09	20
30	14.60	14.60	33.586	24.970	298.5	0.090	6.18	106.8	2.4	0.48	0.9	0.08	1.10	0.14	30
40	13.87	13.86	33.610	25.142	282.4	0.119	5.88	100.1	5.3	0.77	4.0	0.19	0.69	0.16	40
50	13.31	13.30	33.652	25.289	268.7	0.146	5.60	94.3	12.4	0.93	6.4	0.24	0.46	0.27	50
60	12.75	12.74	33.586	25.349	263.2	0.173	5.49	91.3	12.6	0.94	7.2	0.27	0.36	0.22	60
70	12.05	12.04	33.560	25.464	252.4	0.199	5.07	83.1	13.8	1.07	10.0	0.46	0.24	0.30	70
75 ISL	11.72	11.71	33.534	25.507	248.4	0.211	4.98	81.0							75
80	11.41	11.40	33.517	25.549	244.5	0.224	4.90	79.2	14.0	1.11	11.3	0.46	0.19	0.17	80
100	10.36	10.35	33.574	25.780	222.9	0.270	4.20	66.3	18.7	1.37	17.0	0.11	0.10	0.19	100
125 ISL	9.47	9.45	33.780	26.092	193.5	0.322	3.27	50.7							125
126	9.44	9.43	33.791	26.103	192.5	0.324	3.24	50.2	27.4	1.78	23.0	0.05	0.03	0.09	126
149	8.90	8.88	33.889H	26.267	177.3	0.367	2.90	44.4	32.2	1.93	25.4	0.03	0.06	0.22	150

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 60				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVFS	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 50.8 N	119 34.1 W	01/06/81	1754 GMT												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	14.63	14.63	33.567	24.948	299.7	0.000	6.15	106.3	3.1	0.45	0.4	0.05			0
10	14.63	14.63	33.554H	24.938	301.0	0.030	6.16	106.5	2.4	0.45	0.5	0.05			10
20	14.60	14.60	33.574	24.960	299.2	0.060	6.15	106.3	2.9	0.46	0.6	0.07			20
30	14.51	14.51	33.559	24.968	298.7	0.090	6.01	103.7	4.3	0.71	3.1	0.16			30
50	13.30	13.29	33.593	25.245	272.8	0.147	5.50	92.6	10.9	0.97	7.0	0.40			50
74	11.22	11.21	33.518	25.584	241.0	0.209	4.42	71.1	16.4	1.29	15.1	0.19			74
75 ISL	11.16	11.15	33.517	25.596	239.8	0.211	4.40	70.7							75
100	9.99	9.98	33.618	25.877	213.6	0.268	4.03	63.2	20.8	1.49	18.8	0.08			100
125	9.34	9.33	33.826	26.147	188.3	0.318	3.17	49.0	28.1	1.80	23.5	0.03			125
150	8.93	8.91	33.895	26.267	177.3	0.364	2.87	44.0	33.2	1.96	25.8	0.02			151
200	8.50	8.48	34.020	26.432	162.5	0.449	2.24	34.0	40.0	2.19	28.8	0.01			201
250	7.77	7.75	34.041	26.558	151.1	0.527									252
300	7.16	7.13	34.096	26.688	139.3	0.600	1.31	19.3	58.9	2.66	34.6	0.01			302
400	6.67	6.63	34.205	26.842	126.0	0.732									403
496	6.09	6.05	34.305H	26.998	112.1	0.847	0.43	6.2	81.1	3.08	39.4	0.01			500
500	6.08	6.04	34.296	26.992	112.7	0.851									504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 93 70				
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 30.8 N	120 14.8 W	26/05/81	0418 GMT	4022 M	320	14 KT			1014.6 MB	15.9 C	14.8 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.69	15.69	33.562	24.712	322.2	0.000	5.88	103.8							0
1	15.69	15.69	33.562	24.712	322.2	0.003	5.88	103.8	3.8	0.39	0.1	0.04	0.23	0.04	1
9	15.54	15.54	33.546H	24.734	320.4	0.029	5.99	105.5	3.5	0.39	0.1	0.05	0.27	0.03	9
10 ISL	15.47	15.47	33.547	24.751	318.8	0.032	6.02	105.9							10
19	14.78	14.78	33.561	24.911	303.8	0.060	6.25	108.4	2.3	0.42	0.1	0.08	0.49	0.07	19
20 ISL	14.75	14.74	33.560	24.918	303.1	0.063	6.24	108.1							20
29	14.50	14.50	33.546	24.960	299.4	0.090	6.15	106.0	2.7	0.48	1.2	0.12	1.25	0.36	29
30 ISL	14.45	14.44	33.542	24.969	298.6	0.093	6.12	105.4							30
50	13.20	13.19	33.501	25.194	277.7	0.151	5.42	91.0	7.8	0.70	4.8	0.26	0.62	0.32	50
75	11.62	11.61	33.497	25.495	249.5	0.217	4.86	78.9	11.6	0.96	10.2	0.21	0.26	0.19	75
100	10.46	10.45	33.570	25.759	224.8	0.276	4.31	68.2	17.4	1.24	15.8	0.07	0.14	0.14	100
124	9.75	9.74	33.696	25.978	204.4	0.328	3.65	56.9	22.0	1.47	20.0	0.05	0.09	0.07	124
125 ISL	9.73	9.71	33.698	25.986	203.7	0.330	3.63	56.6							125
150	9.24	9.22	33.807	26.148	188.6	0.379	3.32	51.2	27.8	1.68	23.3	0.04	0.08	0.06	151
200	8.57	8.55	33.958	26.373	168.1	0.468	2.82	42.9	35.2	1.91	27.1	0.04	0.02	0.09	201
250	7.97	7.94	34.045	26.532	153.7	0.548									252
300	7.29	7.26	34.058	26.641	143.9	0.623	1.85	27.3	52.1	2.33	32.8	0.04			302
400	6.47	6.43	34.201	26.865	123.5	0.756									403
500 ISL	5.81	5.76	34.286	27.024	109.4	0.873	0.41	5.8							504
501	5.80	5.76	34.294H	27.025	109.3	0.874	0.40	5.7	83.7	2.95	40.7	0.04			505



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 80							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 10.8 N	120 55.2 W	25/05/81	2207	3926 M	310 13 KT	330 3 4	2	1015.9 MB	17.8 C	15.9 C	8/8		ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.35	16.35	33.574	24.572	335.6	0.000	5.72	102.3							0
1	16.35	16.35	33.574	24.572	335.6	0.003	5.72	102.3	2.5	0.31	0.1	0.00	0.09	0.03	1
9	16.30	16.30	33.572H	24.582	334.8	0.030	5.80	103.7	2.5	0.32	0.1	0.00	0.10	0.02	9
10 ISL	16.29	16.29	33.570	24.583	334.8	0.034	5.80	103.7							10
19	16.24	16.24	33.558	24.585	334.9	0.064	5.81	103.7	2.4	0.31	0.1	0.00	0.09	0.03	19
20 ISL	16.24	16.24	33.556	24.585	334.9	0.067	5.81	103.7							20
30 ISL	16.23	16.23	33.547	24.581	335.7	0.101	5.82	103.8							30
32	16.23	16.22	33.547	24.580	335.8	0.107	5.82	103.8							32
50	15.14	15.13	33.413	24.720	322.9	0.167	5.84	101.9	2.7	0.32	0.1	0.00	0.11	0.03	50
75	13.14	13.13	33.454	25.170	280.6	0.242	5.96	99.9	2.9	0.31	0.1	0.00	0.13	0.03	75
99	11.50	11.49	33.493	25.514	248.3	0.305	5.27	85.3	3.7	0.43	0.5	0.11	0.40	0.14	99
100 ISL	11.43	11.42	33.493	25.529	246.8	0.308	5.24	84.6	7.2	0.68	6.0	0.11	0.22	0.20	100
125	9.95	9.94	33.595	25.866	215.1	0.366	4.37	68.4	16.8	1.22	16.3	0.00	0.06	0.07	125
150	9.28	9.26	33.702	26.060	197.0	0.417	3.68	56.8	23.5	1.61	22.0	0.00	0.03	0.11	151
200	8.42	8.40	33.896	26.347	170.5	0.509	3.28	49.7	32.4	1.80	25.8	0.00	0.00	0.03	201
250	7.88	7.86	33.965	26.482	158.3	0.591									252
300	7.06	7.03	34.002	26.628	144.9	0.667	2.16	31.7	51.1	2.30	32.9	0.00			302
400	6.34	6.30	34.118	26.817	128.0	0.804									403
500 ISL	5.76	5.71	34.240	26.993	112.2	0.924	0.49	7.0							504
503	5.74	5.70	34.251H	26.999	111.7	0.927	0.47	6.7	82.3	2.98	41.2	0.00			507

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 90							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
30 50.8 N	121 35.4 W	25/05/81	1523	4117 M	330 14 KT	340 3 5	4	1015.2 MB	16.3 C	15.3 C	8/8				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	16.16	16.16	33.536	24.586	334.2	0.000	5.73	102.1							0
2	16.16	16.16	33.536	24.586	334.2	0.007	5.73	102.1	3.1	0.37	0.1	0.00	0.11	0.02	2
10	16.16	16.16	33.532H	24.583	334.8	0.033	5.80	103.4	2.8	0.35	0.1	0.00	0.12	0.01	10
19	16.16	16.16	33.523	24.577	335.6	0.064	5.80	103.3	2.9	0.35	0.1	0.00	0.11	0.02	19
20 ISL	16.16	16.16	33.521	24.576	335.7	0.067	5.80	103.3							20
29	16.16	16.16	33.517	24.573	336.4	0.097	5.81	103.5	2.8	0.34	0.1	0.00	0.11	0.02	29
30 ISL	16.15	16.14	33.517	24.577	336.0	0.101	5.81	103.5							30
50	15.43	15.42	33.517	24.737	321.4	0.166	5.87	103.1	2.8	0.34	0.1	0.00	0.13	0.03	50
74	13.59	13.58	33.392	25.031	293.8	0.240	5.56	94.0	5.4	0.58	2.8	0.13	0.45	0.27	74
75 ISL	13.50	13.49	33.389	25.049	292.1	0.243	5.54	93.5							75
100	11.38	11.37	33.463	25.513	248.4	0.311	4.82	77.8	11.0	0.98	10.5	0.05	0.17	0.19	100
124	9.85	9.84	33.601	25.887	213.0	0.366	3.94	61.5	20.3	1.48	19.5	0.00	0.06	0.13	124
125 ISL	9.81	9.80	33.603	25.897	212.1	0.368	3.94	61.4							125
149	9.24	9.22	33.718	26.079	195.2	0.417	3.84	59.2	24.0	1.58	21.6	0.00	0.02	0.03	150
150 ISL	9.22	9.20	33.719	26.086	194.6	0.419	3.83	59.1							151
199	8.34	8.32	33.924	26.381	167.2	0.508	3.33	50.4	32.7	1.82	25.8	0.00	0.01	0.01	200
200 ISL	8.33	8.30	33.922	26.385	166.9	0.509	3.32	50.2							201
250	7.62	7.60	33.985	26.536	153.1	0.589									252
300	6.87	6.84	33.998	26.651	142.6	0.663	2.13	31.1	54.7	2.38	33.8	0.00			302
400	6.24	6.20	34.155	26.859	124.0	0.797									403
500 ISL	5.69	5.64	34.264	27.021	109.5	0.913	0.45	6.4							504
501	5.68	5.64	34.272H	27.022	109.4	0.914	0.44	6.3	84.7	3.06	41.4	0.00			505

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 100							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
30 30.8 N	122 15.5 W	25/05/81	0927	4117 M	340 15 KT			1016.3 MB	15.2 C	15.0 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0 ISL	15.98	15.98	33.498	24.598	333.1	0.000	5.78	102.6							0
1	15.98	15.98	33.498	24.598	333.1	0.003	5.78	102.6	4.8	0.34	0.2	0.00	0.09	0.01	1
10	15.98	15.98	33.487	24.590	334.1	0.033	5.87	104.2	4.4	0.34	0.1	0.00	0.09	0.02	10
20	15.97	15.97	33.475	24.583	335.1	0.067	5.88	104.4	4.2	0.33	0.1	0.00	0.09	0.02	20
30	15.99	15.99	33.470	24.575	336.2	0.100	5.89	104.6	4.0	0.33	0.0	0.00	0.09	0.02	30
50	16.11	16.10	33.500	24.572	337.2	0.168	5.86	104.3	3.8	0.31	0.0	0.00	0.09	0.02	50
74	16.30	16.29	33.805	24.763	319.7	0.247	5.89	105.4	3.8	0.29	0.2	0.00	0.24	0.08	74
75 ISL	16.23	16.22	33.794	24.773	318.8	0.250	5.83	105.1							75
100	13.88	13.87	33.523	25.074	290.6	0.326	5.51	93.8	6.1	0.51	3.0	0.12	0.22	0.17	100
125	11.53	11.51	33.492	25.509	249.4	0.393	5.07	82.1	10.1	0.80	8.8	0.06	0.10	0.13	125
150 ISL	10.20	10.18	33.587	25.821	220.0	0.452	4.56	71.8							151
151	10.16	10.14	33.596	25.832	219.0	0.454	4.54	71.4	16.6	1.18	15.5	0.00	0.05	0.06	152
200	8.84	8.82	33.821	26.224	182.4	0.553	3.75	57.3	27.2	1.58	22.6	0.00	0.01	0.02	201
250	8.04	8.01	33.951	26.448	161.7	0.639									252
300	7.24	7.21	33.975	26.582	149.3	0.716	2.69	39.7	46.2	2.08	30.4	0.00	0.01	0.01	302
400	6.34	6.30	34.110	26.811	128.6	0.855									403
497	5.54	5.50	34.216H	26.995	111.7	0.972	0.52	7.4	84.4	2.92	40.8	0.00	0.01	0.01	501
500	5.52	5.48	34.217	26.998	111.4	0.975									504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 30					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
32 15.4 N	117 8.8 W	02/06/81	1200 GMT	54 M	250	5 KT			1011.5 MB	17.2 C	14.9 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	18.68	18.68	33.686	24.099	380.6	0.000	6.12	114.5							0	
1	18.68	18.68	33.686	24.099	380.6	0.004	6.12	114.5	2.6	0.28	0.1	0.03	0.32	0.06	1	
10	15.51	15.51	33.635H	24.809	313.3	0.035	5.81	102.3	3.6	0.29	0.1	0.03	0.61	0.12	10	
20	13.90	13.90	33.536	25.078	287.9	0.065	5.68	96.7	5.8	0.56	2.1	0.14	1.33	0.36	20	
30	12.86	12.86	33.568H	25.313	265.8	0.093	5.67	94.5	6.0	0.60	2.3	0.15	1.44	0.34	30	
41	11.32	11.31	33.676	25.688	230.3	0.120	4.93	79.6	9.4	0.87	5.3	0.28	0.99	0.42	41	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 55.4 N	117 49.5 W	02/06/81	2112 GMT	1202 M	280	10 KT	270 2 3	2	1013.2 MB	17.1 C	14.9 C		8/8	ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	16.53	16.53	33.617	24.563	336.3	0.000	5.84	104.9	3.5	0.35	0.1	0.02	0.15	0.03	0	
9	16.38	16.38	33.600H	24.585	334.5	0.030	5.86	104.9	3.5	0.37	0.1	0.02	0.15	0.03	9	
10 ISL	16.27	16.27	33.597	24.609	332.3	0.033	5.90	105.4							10	
20	14.92	14.92	33.572	24.890	305.9	0.065	6.27	109.0	3.6	0.41	0.1	0.03	0.21	0.05	20	
30	13.92	13.92	33.531	25.070	289.0	0.095	6.04	102.9	6.2	0.62	2.6	0.17	0.71	0.28	30	
50	12.12	12.11	33.480	25.388	259.2	0.150	5.05	82.8	10.4	0.93	8.0	0.29	0.26	0.26	50	
75	10.90	10.89	33.530	25.651	234.6	0.212	4.44	71.0	16.4	1.28	14.5	0.08	0.12	0.17	75	
100	10.13	10.12	33.705	25.921	209.4	0.267	3.54	55.7	23.3	1.66	20.4	0.04	0.04	0.10	100	
125	9.46	9.45	33.783	26.094	193.3	0.318	3.48	54.0	26.9	1.75	22.1	0.02	0.02	0.05	125	
150	8.92	8.90	33.924	26.291	175.0	0.364	2.87	44.0	33.3	2.01	25.7	0.02	0.01	0.04	151	
200	8.31	8.29	34.057	26.490	156.9	0.447	2.17	37.8	42.1	2.28	29.2	0.01	0.00	0.03	201	
250	8.14	8.11	34.175	26.609	146.5	0.522									252	
299	7.84	7.81	34.203	26.676	140.9	0.593	1.10	16.5	53.8	2.71	32.9	0.01	0.00	0.04	301	
300 ISL	7.83	7.80	34.198	26.678	140.8	0.594	1.10	16.4							302	
400	6.92	6.88	34.258	26.850	125.4	0.727									403	
500	6.20	6.16	34.320H	26.996	112.5	0.846	0.38	5.5	79.8	3.14	39.4	0.01			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 35.4 N	118 30.1 W	03/06/81	0436 GMT	2509 M	330	19 KT			1012.9 MB	15.0 C	13.5 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	16.20	16.20	33.636	24.654	327.8	0.000	5.74	102.4							0	
1	16.20	16.20	33.636	24.654	327.8	0.003	5.74	102.4	3.4	0.37	0.2	0.02	0.16	0.04	1	
10	16.17	16.17	33.614H	24.644	329.0	0.033	5.76	102.7	3.3	0.37	0.2	0.02	0.18	0.05	10	
20	15.28	15.28	33.542	24.788	315.6	0.065	6.04	105.8	2.4	0.42	0.2	0.02	0.36	0.06	20	
30	14.34	14.34	33.498	24.957	299.8	0.096	6.14	105.5	2.5	0.56	1.3	0.11	0.57	0.12	30	
50	13.70	13.69	33.540	25.123	284.5	0.154	5.78	98.0	5.7	0.79	3.8	0.20	0.52	0.18	50	
75	11.32	11.31	33.516	25.564	242.9	0.220	4.59	74.0	13.6	1.15	12.3	0.10	0.19	0.30	75	
100	10.55	10.54	33.588	25.758	225.0	0.279	4.25	67.4	17.7	1.35	16.2	0.06	0.09	0.16	100	
125	9.82	9.81	33.688	25.960	206.1	0.333	3.70	57.8	24.3	1.65	21.0	0.03	0.03	0.06	125	
150	9.30	9.28	33.791	26.126	190.7	0.382	3.17	49.0	29.5	1.87	23.9	0.02	0.01	0.04	151	
200	8.39	8.37	33.952	26.396	165.9	0.471	2.73	41.3	38.0	2.07	27.8	0.01	0.02	0.03	201	
250	7.91	7.88	34.056	26.550	152.0	0.551									252	
300	7.44	7.41	34.112	26.662	142.0	0.624	1.41	20.9	54.3	2.62	33.5	0.01			302	
400	6.63	6.59	34.202	26.845	125.6	0.758									403	
500	5.97	5.93	34.299H	27.008	111.0	0.876	0.39	5.6	82.5	3.14	40.0	0.01			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
31 15.4 N	119 10.5 W	03/06/81	1235 GMT	3832 M	310	18 KT			1010.8 MB	16.0 C	14.0 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	16.37	16.37	33.587	24.577	335.0	0.000	5.72	102.4							0	
10	16.38 H	16.38	33.572H	24.564	336.6	0.034	5.75	102.6	3.9	0.33	0.2	0.03	0.10	0.03	10	
20	16.38	16.38	33.572	24.564	336.9	0.067	5.74	102.7	3.8	0.35	0.2	0.03	0.10	0.02	20	
30	16.38	16.38	33.569	24.562	337.5	0.101	5.74	102.7	4.0	0.34	0.2	0.03	0.10	0.03	30	
49	16.20	16.19	33.546	24.586	335.7	0.165	5.86	104.5	3.7	0.35	0.2	0.03	0.16	0.06	49	
50 ISL	16.15	16.14	33.542	24.598	334.7	0.168	5.85	104.3							50	
75	14.32	14.31	33.515	24.976	299.3	0.247	5.66	97.2	5.3	0.45	0.9	0.10	0.36	0.23	75	
100	12.29	12.28	33.477	25.354	263.6	0.318	5.09	83.8	9.7	0.77	7.4	0.10	0.17	0.25	100	
125	10.81	10.79	33.623	25.740	227.3	0.379	4.48	71.5	15.4	1.14	13.7	0.05	0.09	0.13	125	
150	9.79	9.77	33.668	25.950	207.6	0.434	3.82	59.6	22.7	1.51	19.8	0.03	0.03	0.04	151	
200	9.06	9.04	33.937	26.280	177.1	0.530	2.94	45.2	33.1	1.88	25.3	0.03	0.00	0.02	201	
250	8.03	8.00	34.004	26.491	157.6	0.613									252	
299	7.45	7.42	34.036	26.601	147.7	0.688	1.93	28.6	51.9	2.34	32.2	0.01			301	
300 ISL	7.44	7.41	34.032	26.603	147.6	0.690	1.92	28.5							302	
400	6.66	6.62	34.140	26.792	130.6	0.829									403	
500	6.18	6.14	34.302H	26.984	113.6	0.951	0.41	5.9	79.8	2.99	39.6	0.01			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 70						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
30 55.4 N	119 50.7 W	03/06/81	2002 GMT	3263 M	340	24 KT	330 5 7	1	1012.2 MB	17.7 C	15.8 C	5/8		CU			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.12	17.12	33.748	24.526	339.9	0.000	5.62	102.1							0		
1	17.12	17.12	33.748	24.526	339.9	0.003	5.62	102.1	3.3	0.28	0.2	0.01	0.09	0.01	1		
10	17.11	17.11	33.740	24.522	340.6	0.034	5.66	102.8	3.3	0.28	0.1	0.02	0.08	0.01	10		
20	17.09	17.09	33.735	24.524	340.8	0.068	5.66	102.8	3.3	0.28	0.1	0.01	0.09	0.02	20		
29	17.08	17.08	33.727	24.521	341.4	0.099	5.68	103.1	3.3	0.27	0.1	0.01	0.10	0.01	29		
30	17.08	17.07	33.724	24.520	341.5	0.102	5.68	103.1							30		
49	17.04	17.03	33.710	24.518	342.4	0.167	5.69	103.2	3.3	0.27	0.1	0.02	0.10	0.03	49		
50	16.99	16.99	33.698	24.522	342.0	0.171	5.70	103.2							50		
74	15.37	15.36	33.506	24.742	321.6	0.250	5.82	102.1	3.3	0.31	0.1	0.01	0.22	0.12	74		
75	15.29	15.28	33.504	24.760	319.9	0.253	5.80	101.6							75		
99	13.40	13.39	33.591	25.225	276.1	0.325	5.27	88.9	6.5	0.58	3.7	0.25	0.38	0.21	99		
100	13.32	13.31	33.589	25.241	274.6	0.328	5.25	88.4							100		
125	11.61	11.59	33.630	25.601	240.6	0.392	4.72	76.6	11.2	0.90	9.9	0.07	0.11	0.15	125		
150	10.48	10.46	33.720	25.874	215.0	0.449	3.71	58.8	20.3	1.44	18.2	0.03	0.04	0.05	151		
200	9.11	9.09	33.908	26.249	180.0	0.548	3.09	47.6	29.9	1.79	24.2	0.01	0.01	0.03	201		
250	8.59	8.56	34.087	26.472	159.8	0.633									252		
300	7.77	7.74	34.065	26.578	150.1	0.710	1.96	29.3	47.2	2.27	30.8	0.01			302		
400	6.63	6.59	34.111	26.773	132.4	0.851									403		
500	5.98 H	5.94	34.232H	26.954	116.2	0.976	0.58	8.3	78.9	2.90	39.3	0.01			504		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 80						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
30 35.4 N	120 30.8 W	04/06/81	0241 GMT	4022 M	330	18 KT	330 6 6	0	1011.9 MB	16.9 C	15.1 C	0/8					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.16	17.16	33.676	24.461	346.1	0.000									0		
10	17.16	17.16	33.656	24.447	347.8	0.035									10		
11	17.16	17.16	33.656H	24.446	347.9	0.038	5.63	102.3	3.3	0.29	0.2	0.02	0.07	0.02	11		
20	17.16	17.16	33.659	24.449	347.9	0.069	5.69	103.4	3.2	0.29	0.1	0.02	0.08	0.01	20		
30	17.15	17.15	33.649	24.444	348.7	0.104	5.68	103.2	3.2	0.29	0.1	0.02	0.07	0.01	30		
50	14.98	14.97	33.353	24.709	324.0	0.172	6.05	105.7	3.6	0.34	0.0	0.02	0.11	0.04	50		
75	14.21	14.20	33.454	24.952	301.6	0.250	5.89	100.9	4.2	0.38	0.1	0.17	0.39	0.20	75		
100	12.83	12.82	33.460	25.237	275.0	0.322	5.30	88.2	7.9	0.65	5.7	0.08	0.19	0.14	100		
125	10.49	10.48	33.524	25.719	229.2	0.385	4.46	70.6	16.5	1.20	15.2	0.04	0.05	0.05	125		
150	9.50	9.48	33.675	26.003	202.5	0.439	3.88	60.2	23.8	1.50	20.5	0.02	0.01	0.02	151		
200	8.92	8.90	33.901	26.276	177.4	0.534	2.83	43.3							201		
201	8.92	8.90	33.908	26.279	177.1	0.536	2.81	43.1	33.4	1.88	26.0	0.01	0.00	0.01	202		
250	8.03	8.00	33.988	26.479	158.8	0.618									252		
300	7.43	7.40	34.027	26.597	148.2	0.695	1.95	28.9	50.1	2.30	32.0	0.01	0.00	0.01	302		
400	6.59	6.55	34.123	26.788	131.0	0.834									403		
500	6.01	5.97	34.279H	26.987	113.1	0.956	0.44	6.3	80.6	2.92	39.5	0.01			504		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 97 90						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
30 15.4 N	121 10.8 W	04/06/81	0911 GMT	4022 M	340	19 KT			1011.5 MB	16.5 C	15.0 C						
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	16.83	16.83	33.585	24.469	345.3	0.000	5.65	102.0	3.7	0.36	0.1	0.02	0.06	0.01	0		
10	16.83	16.83	33.567H	24.456	346.9	0.035	5.69	102.7	3.6	0.36	0.0	0.01	0.06	0.01	10		
20	16.83	16.83	33.566	24.456	347.3	0.069	5.69	102.7							20		
21	16.83	16.83	33.567	24.456	347.3	0.073	5.69	102.7	3.5	0.36	0.0	0.02	0.07	0.01	21		
30	16.82	16.82	33.562	24.455	347.7	0.104	5.71	103.1	3.8	0.36	0.0	0.00	0.07	0.01	30		
50	15.69	15.68	33.444	24.623	332.2	0.172	6.13	108.2	4.5	0.40	0.1	0.02	0.18	0.05	50		
75	13.74	13.73	33.425	25.027	294.4	0.250	5.52	93.6	7.0	0.66	4.3	0.20	0.34	0.16	75		
100	12.24	12.23	33.400	25.304	268.4	0.321	4.87	80.0	12.1	0.96	10.5	0.05	0.09	0.10	100		
125	10.57	10.56	33.568	25.739	227.3	0.393	4.60	73.0	16.4	1.19	14.7	0.03	0.04	0.04	125		
150	9.46	9.44	33.639	25.982	204.5	0.437	4.07	63.0	23.3	1.51	20.2	0.02	0.01	0.02	151		
200	8.50	8.48	33.848	26.297	175.5	0.532	3.40	51.6	33.0	1.80	25.0	0.01	0.01	0.01	201		
250	7.78	7.76	33.925	26.466	159.9	0.615									252		
300	7.05	7.03	33.939	26.583	149.1	0.693	2.39	35.1							302		
301	7.04	7.01	33.944	26.585	148.9	0.694	2.38	34.9	50.6	2.27	31.8	0.01			303		
400	6.23	6.19	34.064	26.798	130.6	0.837									403		
500	5.90	5.86	34.266	26.996	112.1	0.954	0.47	6.7							504		
501	5.90	5.86	34.275H	26.998	111.9	0.955	0.46	6.6	81.4	3.03	40.2	0.01			505		



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 97 100							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
29 55.4 N	121 50.6 W	04/06/81	1505 GMT	4117 M	350	19 KT	330 6 6	1	1012.2 MB	17.5 C	16.0 C	5/8		AC	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	16.31	16.31	33.502	24.526	339.9	0.000	5.77	103.1	3.8	0.32	0.3	0.02	0.09	0.02	0
10	16.31	16.31	33.481H	24.510	341.8	0.034	5.79	103.4	3.6	0.32	0.2	0.02	0.09	0.02	10
20	16.31	16.31	33.491	24.518	341.3	0.068	5.78	103.3	3.6	0.31	0.1	0.02	0.09	0.03	20
30	16.32	16.32	33.483	24.510	342.4	0.102	5.79	103.5	3.5	0.31	0.1	0.02			30
49	16.97	16.96	33.754	24.568	337.6	0.167	5.73	103.8	3.5	0.27	0.0	0.02	0.09	0.03	49
50 ISL	16.96	16.95	33.752	24.571	337.3	0.170	5.73	103.8							50
75	16.70	16.69	33.846	24.703	325.6	0.253	5.75	103.7	3.4	0.22	0.1	0.00	0.09	0.03	75
99	15.66	15.64	33.904	24.985	299.3	0.328	5.61	99.2	4.0	0.23	0.1	0.00	0.19	0.19	99
100 ISL	15.56	15.54	33.894	25.003	297.6	0.331	5.59	98.7							100
125	12.94	12.92	33.743	25.435	256.8	0.401	5.20	86.9	7.1	0.52	4.5	0.15	0.12	0.22	125
150 ISL	11.51	11.49	33.681	25.663	235.5	0.462	5.03	81.5							151
151	11.47	11.45	33.684	25.670	234.8	0.464	5.02	81.3	10.9	0.80	9.4	0.05	0.08	0.12	152
200	9.37	9.35	33.760	26.092	195.1	0.570	4.26	65.9	21.6	1.36	18.3	0.06	0.02	0.02	201
250	8.37	8.34	33.905	26.363	169.9	0.661									252
300 ISL	7.45	7.42	33.950	26.538	153.7	0.742	2.78	41.2							302
301	7.43	7.40	33.956	26.541	153.4	0.743	2.77	41.0	43.2	2.08	29.3	0.02			303
400	6.42	6.38	34.078	26.775	132.0	0.885									403
500	5.78	5.74	34.197H	26.951	116.2	1.009	0.65	9.3	79.0	2.95	40.0	0.01			504

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 100 30							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 41.2 N	116 46.6 W	06/06/81	1500 GMT	399 M	240	7 KT	490 2	2	1012.2 MB	18.1 C	16.8 C	3/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.74	18.74	33.677	24.077	382.7	0.000	5.64	105.6	1.0	0.24	0.2	0.02	0.44	0.06	0
9	18.61	18.61	33.695H	24.124	378.6	0.034	5.74	107.2	1.5	0.24	0.2	0.01	0.64	0.11	9
10 ISL	18.36	18.36	33.672	24.168	374.4	0.038	5.74	106.8							10
20	15.55	15.55	33.497	24.694	324.5	0.073	5.77	101.6	6.7	0.46	0.9	0.09	1.86	0.23	20
30	14.29	14.29	33.587	25.036	292.2	0.104	4.92	84.5	10.9	0.78	5.2	0.22	0.67	0.25	30
50	11.38	11.37	33.636	25.646	234.5	0.156	3.45	55.8	20.5	1.50	17.6	0.11	0.18	0.19	50
75	10.25	10.24	33.828	25.996	201.7	0.211	3.01	47.5	25.3	1.77	21.9	0.04	0.04	0.07	75
100	10.00	9.99	33.916	26.108	191.7	0.260	2.66	41.8	28.7	1.93	24.0	0.03	0.02	0.09	100
125	9.89	9.88	33.954	26.156	187.5	0.308	2.56	40.1	29.9	1.98	24.5	0.03	0.01	0.06	125
150	9.60	9.58	34.029	26.264	177.9	0.353	2.14	33.3	34.2	2.16	26.7	0.03	0.01	0.07	151
200	9.10	9.08	34.163	26.450	161.0	0.438	1.68	25.9	40.3	2.35	29.0	0.02	0.01	0.06	201
250	8.77	8.74	34.199	26.531	154.2	0.517									252
300	8.36	8.33	34.231	26.621	146.5	0.592	1.08	16.4	49.5	2.63	31.6	0.01			302
370	8.02	7.98	34.253	26.690	141.0	0.693	0.82	12.3	55.4	2.77	33.1	0.02			373

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 100 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 21.2 N	117 27.1 W	06/06/81	0754 GMT	2037 M	180	11 KT			1011.9 MB	18.0 C	16.5 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	16.97	16.97	33.608	24.454	346.7	0.000	5.60	101.4	2.7	0.34	0.4	0.02	0.16	0.06	0
10	16.87	16.87	33.588H	24.462	346.3	0.035	5.75	103.9	2.8	0.32	0.3	0.02	0.13	0.04	10
20	16.03	16.03	33.553	24.629	330.7	0.069	5.93	105.4	2.3	0.33	0.3	0.02	0.13	0.04	20
30	15.76	15.76	33.539	24.680	326.2	0.101	6.02	106.4	2.5	0.35	0.3	0.01	0.16	0.06	30
50	14.98	14.97	33.486	24.812	314.2	0.165	6.09	106.0	2.6	0.39	0.2	0.02	0.39	0.17	50
75	12.73	12.72	33.445	25.244	273.5	0.239	5.27	87.6	8.0	0.81	6.7	0.30	0.29	0.24	75
100	11.11	11.10	33.514	25.601	239.9	0.303	4.38	70.3	14.8	1.22	14.7	0.05	0.09	0.13	100
125	10.03	10.02	33.633	25.882	213.6	0.360	3.73	58.5	21.8	1.56	20.3	0.03	0.03	0.07	125
150	9.40	9.38	33.770	26.094	193.8	0.411	3.33	51.5	26.0	1.74	23.0	0.02	0.01	0.04	151
200	8.73	8.71	33.950	26.342	171.1	0.502	2.57	39.2	34.6	2.06	27.6	0.01	0.00	0.03	201
250	8.25	8.22	34.028	26.477	159.0	0.584									252
300	7.74	7.71	34.091	26.603	147.8	0.661	1.47	21.9	49.0	2.53	32.9	0.01			302
400	6.82	6.78	34.177	26.800	130.1	0.800									403
500	6.10	6.06	34.297H	26.990	112.9	0.922	0.45	6.5	74.5	3.05	39.4	0.01			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 100 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 1.2 N	118 7.3 W	06/06/81	0046 GMT	1810 M	210	11 KT	200 2 3	1	1010.5 MB	19.0 C	17.3 C	7/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.59	17.59	33.589	24.292	362.2	0.000	5.65	103.5	4.0	0.35	0.5	0.03	0.08	0.01	0
10	16.86	16.86	33.591H	24.467	345.8	0.035	5.72	103.3	3.6	0.34	0.4	0.03	0.08	0.02	10
19	16.68	16.68	33.582	24.502	342.8	0.066	5.72	103.0	3.8	0.34	0.4	0.03	0.08	0.02	19
20 ISL	16.67	16.67	33.581	24.505	342.6	0.070	5.72	103.0							20
29	16.60	16.60	33.584	24.523	341.1	0.101	5.75	103.4	3.5	0.34	0.3	0.02	0.09	0.02	29
30 ISL	16.59	16.58	33.580	24.524	341.1	0.104	5.76	103.5							30
50	16.29	16.28	33.518	24.544	339.8	0.172	5.84	104.3	3.5	0.34	0.3	0.02	0.14	0.05	50
74	14.55	14.54	33.452	24.878	308.5	0.250	5.52	95.2	6.2	0.61	3.1	0.22	0.33	0.22	74
75 ISL	14.44	14.43	33.446	24.900	306.5	0.253	5.48	94.3							75
100	11.72	11.71	33.459	25.448	254.7	0.323	4.39	71.4	14.7	1.19	13.7	0.06	0.09	0.17	100
125	10.40	10.39	33.620	25.809	220.6	0.383	3.84	60.7	20.4	1.47	18.7	0.04	0.04	0.07	125
150	9.68	9.66	33.753	26.035	199.5	0.435	3.54	55.1	23.9	1.63	21.2	0.03	0.02	0.04	151
200	8.97	8.95	33.995	26.340	171.5	0.528	2.58	39.6	33.2	2.02	26.7	0.02	0.00	0.02	201
250	8.48	8.45	34.065	26.471	159.7	0.611									252
300	8.00	7.97	34.111	26.580	150.1	0.688	1.45	21.8	47.9	2.51	32.4	0.02			302
400	7.10	7.06	34.193	26.775	132.7	0.829									403
500 ISL	6.47	6.42	34.287	26.942	117.9	0.955	0.46	6.7							504
501	6.46	6.41	34.296H	26.943	117.8	0.956	0.46	6.7	72.3	3.02	38.8	0.01			505

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 100 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 41.2 N	118 47.5 W	05/06/81	1741 GMT	2981 M	340	16 KT	300 3 7	2	1010.5 MB	18.5 C	17.0 C	9/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.07	17.07	33.621	24.440	348.0	0.000	5.70	103.4	3.2	0.31	0.2	0.03	0.11	0.01	0
10	16.92	16.92	33.616	24.472	345.3	0.035	5.71	103.3	3.3	0.30	0.1	0.03	0.10	0.02	10
20	16.67	16.67	33.619	24.533	339.9	0.069	5.74	103.3	3.3	0.30	0.1	0.03	0.10	0.04	20
29	16.64	16.64	33.611	24.534	340.0	0.100	5.75	103.5	3.3	0.30	0.0	0.03	0.13	0.03	29
30 ISL	16.62	16.61	33.606	24.537	339.9	0.103	5.76	103.5							30
49	15.96	15.95	33.526	24.625	332.0	0.167	5.86	104.0	3.3	0.32	0.0	0.02	0.20	0.09	49
50 ISL	15.93	15.92	33.520	24.630	331.6	0.170	5.86	103.9							50
75	14.72	14.71	33.464	24.851	311.2	0.250	5.84	101.1	3.9	0.43	0.2	0.06	0.49	0.27	75
100	12.43	12.42	33.497	25.343	264.8	0.322	5.00	82.6	9.2	0.81	6.6	0.22	0.25	0.19	100
125	10.76	10.74	33.648	25.768	224.6	0.383	4.21	67.1	15.1	1.20	13.4	0.07	0.16	0.20	125
150	10.09	10.07	33.711	25.934	209.3	0.438	3.54	55.6	22.2	1.55	19.6	0.04	0.03	0.07	151
200	8.98	8.96	33.900	26.264	178.6	0.535	2.94	45.1	30.4	1.86	24.7	0.02	0.03	0.04	201
250	8.28	8.25	34.020	26.466	160.1	0.619									252
299	8.02	7.99	34.130	26.592	149.0	0.695	1.62	24.3	47.9	2.43	32.0	0.02			301
300 ISL	8.01	7.98	34.125	26.595	148.7	0.697	1.61	24.2							302
400	6.91	6.87	34.204	26.809	129.3	0.836									403
487	6.19	6.15	34.306H	26.986	113.3	0.941	0.41	5.9	77.5	3.02	40.0	0.01			491
500	5.05	6.01	34.304	27.002	111.7	0.956									504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 100 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 21.2 N	119 27.5 W	05/06/81	1150 GMT	3832 M	210	8 KT		4	1009.1 MB	17.7 C	15.9 C			ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.23	17.23	33.669	24.439	348.2	0.000	5.68	103.4	3.6	0.34	0.2	0.02	0.08	0.04	0
10	16.86	16.86	33.670	24.528	340.1	0.034	5.73	103.6	3.6	0.34	0.1	0.02	0.08	0.02	10
20	16.81	16.81	33.651	24.525	340.7	0.068	5.71	103.1	3.2	0.33	0.1	0.01	0.09	0.02	20
30	16.77	16.77	33.634	24.522	341.3	0.103	5.71	103.0	3.2	0.33	0.1	0.01	0.08	0.03	30
50	14.82	14.81	33.484	24.844	311.1	0.168	5.96	103.4	3.7	0.37	0.1	0.02	0.14	0.09	50
75	13.43	13.42	33.469	25.124	285.1	0.242	5.51	92.9	5.8	0.62	3.0	0.23	0.41	0.28	75
100 ISL	11.90	11.89	33.506	25.453	254.2	0.310	4.84	79.0							100
101	11.84	11.83	33.512	25.466	252.9	0.312	4.81	78.4	11.3	0.97	9.9	0.08	0.12	0.15	101
125	10.74	10.73	33.605	25.738	227.4	0.370	4.28	68.2	16.7	1.26	15.2	0.04	0.06	0.15	125
150 ISL	9.97	9.95	33.681	25.934	209.2	0.424	3.85	60.3							151
151	9.94	9.92	33.688	25.941	208.6	0.427	3.83	60.0	23.1	1.53	19.9	0.02	0.02	0.03	152
200	8.91	8.89	33.942	26.307	174.5	0.520	2.77	42.4	34.0	1.98	26.4	0.01	0.00	0.02	201
250	8.18	8.15	34.053	26.507	156.2	0.603									252
298	7.84	7.81	34.127	26.616	146.5	0.676	1.46	21.9	50.2	2.49	32.3	0.02			300
300 ISL	7.82	7.79	34.124	26.621	146.1	0.679	1.44	21.5							302
400	6.93	6.89	34.218	26.818	128.5	0.816									403
500	6.36	6.31	34.347H	26.996	112.6	0.937	0.32	4.6	76.9	3.05	39.2	0.00			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 100 80							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 1.2 N	120 7.4 W	05/06/81	0531 GMT	3738 M	340	4 KT			1009.8 MB	17.7 C	16.7 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.55	17.55	33.803	24.466	345.6	0.000	5.60	102.6	3.6	0.32	0.0	0.03	0.09	0.03	0
10	17.47	17.47	33.792H	24.477	344.9	0.035	5.62	102.8	4.1	0.31	0.0	0.02	0.10	0.01	10
20	17.10	17.10	33.734	24.521	341.1	0.069	5.67	103.0	3.6	0.32	0.0	0.02	0.10	0.01	20
29	17.04	17.04	33.705	24.513	342.1	0.100	5.72	103.8	3.7	0.31	0.0	0.02	0.11	0.03	29
30 ISL	17.04	17.04	33.703	24.513	342.1	0.103	5.72	103.8							30
50	17.04	17.03	33.791	24.511	343.0	0.172	5.75	104.3	3.7	0.31	0.0	0.02	0.14	0.04	50
75	15.96	15.95	33.576	24.665	329.1	0.256	5.81	103.1	4.1	0.36	0.0	0.02	0.25	0.16	75
100	13.96	13.95	33.523	25.058	292.2	0.333	5.39	91.9	6.5	0.63	2.7	0.25	0.41	0.29	100
124	11.85	11.83	33.559	25.501	250.2	0.398	4.70	76.7	12.2	1.01	10.4	0.07	0.13	0.17	124
125 ISL	11.78	11.76	33.558	25.517	248.7	0.401	4.68	76.2							125
150	10.30	10.28	33.655	25.854	216.9	0.459	4.10	64.7	19.5	1.37	17.1	0.03	0.04	0.07	151
200	9.12	9.10	33.960	26.288	176.4	0.557	2.78	42.8	33.3	1.96	25.4	0.01	0.00	0.01	201
250	8.42	8.39	34.027	26.451	161.7	0.642									252
300	7.81	7.78	34.105	26.604	147.7	0.719	1.64	24.5	50.2	2.47	32.0	0.01			302
400	6.97	6.93	34.252	26.879	126.5	0.856									403
500 ISL	6.10	6.05	34.296	26.995	112.4	0.976	0.38	5.4							504
502	6.08	6.04	34.303H	26.997	112.2	0.978	0.37	5.3	80.7	3.08	39.9	0.00			506

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 100 90							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
29 41.2 N	120 47.1 W	04/06/81	2339 GMT	4117 M	340	10 KT	330 6 7	0	1009.8 MB	19.0 C	17.0 C		0/8		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.18	17.18	33.560	24.368	355.0	0.000	5.66	102.9	3.5	0.31	0.1	0.02	0.05	0.01	0
10	16.92	16.92	33.565H	24.433	349.0	0.035	5.70	103.1	3.5	0.32	0.1	0.05	0.07	0.03	10
20	16.78	16.78	33.559	24.462	346.7	0.070	5.70	102.8	3.5	0.32	0.1	0.03	0.07	0.01	20
29	16.76	16.76	33.552	24.461	347.0	0.101	5.75	103.7	3.5	0.31	0.0	0.02	0.06	0.01	29
30 ISL	16.74	16.73	33.548	24.464	346.7	0.105	5.76	103.7							30
50	16.17	16.16	33.501	24.559	338.4	0.173	5.86	104.4	3.4	0.32	0.0	0.02	0.10	0.03	50
74	15.68	15.67	33.474	24.649	330.5	0.253	5.89	103.9	3.4	0.31	0.0	0.02	0.15	0.09	74
75 ISL	15.64	15.62	33.469	24.658	329.7	0.257	5.89	103.8							75
100	14.14	14.13	33.439	24.955	301.9	0.336	5.78	98.9	4.7	0.46	0.8	0.36	0.26	0.23	100
125	12.12	12.10	33.440	25.358	263.8	0.406	5.04	82.6	9.8	0.89	8.7	0.07	0.10	0.10	125
150	10.15	10.13	33.581	25.822	219.9	0.467	4.28	67.3	18.4	1.35	17.0	0.03	0.02	0.04	151
200	8.71	8.69	33.842	26.260	178.8	0.567	3.57	54.4	30.0	1.75	23.5	0.03	0.01	0.02	201
250	7.82	7.80	33.950	26.479	158.6	0.651									252
300	7.23	7.20	33.994	26.599	147.8	0.727	2.12	31.3	51.3	2.39	32.2	0.02			302
400	6.30	6.26	34.082	26.793	130.2	0.866									403
500 ISL	5.62	5.58	34.211	26.987	112.6	0.988	0.58	8.2							504
502	5.61	5.57	34.221H	26.991	112.3	0.990	0.57	8.1	83.8	3.09	40.6	0.01			506

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 103 30							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
31 6.9 N	116 24.7 W	07/06/81	1523 GMT	60 M	310	8 KT	320 1 5	2	1012.5 MB	17.8 C	16.8 C		8/8	ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.13	18.13	33.681	24.231	368.0	0.000	5.91	109.4	3.3	0.29	0.2	0.03	1.40	0.23	0
10	15.46	15.46	33.653H	24.834	310.9	0.034	5.65	99.4	8.8	0.54	2.2	0.08	3.50	0.53	10
20	13.09	13.09	33.601	25.292	267.5	0.063	4.09	68.5	15.7	1.22	12.5	0.23	0.50	0.27	20
30	11.49	11.49	33.652	25.638	234.8	0.088	3.92	63.5	17.2	1.36	15.1	0.14	0.41	0.31	30
39	11.20	11.20	33.672	25.707	228.5	0.109	3.77	60.7	18.4	1.44	16.9	0.06	0.29	0.30	39
46	10.98	10.97	33.665H	25.741	225.4	0.125	3.68	59.0	18.7	1.47	17.5	0.05	0.26	0.33	46

6FF CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 103 40							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 46.9 N	117 4.7 W	07/06/81	2249 GMT	1849 M	320	11 KT	310 1 3	2	1013.2 MB	18.3 C	16.7 C		8/8	ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.89	17.89	33.659	24.273	364.0	0.000	5.66	104.3	3.4	0.31	0.3	0.04	0.09	0.01	0
10	17.00	17.00	33.612	24.450	347.4	0.036	5.70	103.3	3.4	0.30	0.3	0.03	0.09	0.03	10
20	16.76	16.76	33.608	24.504	342.7	0.070	5.72	103.2	3.5	0.31	0.2	0.04	0.07	0.03	20
30	16.70	16.70	33.608	24.518	341.7	0.104	5.74	103.4	3.5	0.31	0.2	0.03	0.08	0.04	30
50	16.48	16.47	33.590	24.556	338.7	0.172	5.79	103.8	3.6	0.32	0.2	0.03	0.13	0.04	50
75	14.67	14.66	33.430	24.876	312.6	0.254	5.82	100.6	4.0	0.43	0.5	0.05	0.41	0.33	75
100	11.79	11.78	33.518	25.480	251.6	0.324	4.76	77.5	11.9	1.01	10.6	0.09	0.13	0.20	100
125	10.56	10.55	33.575	25.746	226.6	0.384	4.13	65.5	18.2	1.34	16.5	0.05	0.05	0.11	125
150	9.75	9.73	33.722	25.999	203.0	0.438	3.62	56.5	23.8	1.59	20.7	0.03	0.02	0.05	151
200	8.95	8.93	33.991	26.340	171.5	0.531	2.71	41.6	33.6	1.99	26.2	0.02	0.00	0.02	201
250	8.58	8.55	34.115	26.495	157.5	0.614									252
299	8.19	8.16	34.168	26.597	148.7	0.689	1.38	20.8	48.9	2.60	31.8	0.01			301
300 ISL	8.18	8.15	34.163	26.599	148.4	0.690	1.38	20.8							302
400	6.90	6.86	34.235	26.835	126.9	0.828									403
500	6.32	6.27	34.339H	26.995	112.7	0.948	0.58	8.4	77.9	3.09	39.4	0.01			504



## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 103 50

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 26.9 N	117 44.7 W	08/06/81	0531 GMT	2043 M	320	12 KT			1013.9 MB	17.2 C	16.0 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.38	18.38	33.760	24.230	368.1	0.000	5.56	103.5	3.6	0.35	0.5	0.01	0.12	0.02	0
10	18.39	18.39	33.742H	24.214	370.0	0.037	5.55	103.3	3.6	0.35	0.4	0.01	0.13	0.04	10
19	18.00	18.00	33.713	24.288	363.2	0.070	5.62	103.8	3.6	0.35	0.3	0.01	0.14	0.03	19
20	17.98	17.98	33.711	24.292	362.9	0.074	5.62	103.8							20
30	17.88	17.87	33.704	24.311	361.5	0.110	5.63	103.8	3.5	0.35	0.2	0.01	0.22	0.07	30
49	17.28	17.27	33.581	24.362	357.2	0.178	5.71	104.0	3.7	0.36	0.2	0.01	0.34	0.07	49
50	17.15	17.14	33.570	24.386	354.9	0.181	5.69	103.3							50
74	13.63	13.62	33.500	25.107	286.7	0.259	4.98	84.3	7.7	0.76	4.2	0.36	0.40	0.25	74
75	13.52	13.51	33.502	25.133	284.2	0.261	4.95	83.7							75
99	11.50	11.49	33.641	25.629	237.3	0.324	4.44	71.9	14.6	1.14	12.4	0.05	0.09	0.11	99
100	11.43	11.42	33.635	25.639	236.4	0.326	4.44	71.8							100
125	10.36	10.35	33.629	25.823	219.3	0.383	4.11	64.9	19.2	1.40	16.9	0.03	0.05	0.07	125
149	10.47	10.45	33.980	26.078	195.7	0.433	2.64	41.9	26.9	1.91	22.8	0.01	0.01	0.05	150
150	10.45	10.44	33.981	26.085	195.1	0.435	2.64	41.8							151
199	9.42	9.40	34.038	26.301	175.3	0.526	2.46	38.2	42.6	2.08	26.1	0.00	0.02	0.03	200
200	9.42	9.39	34.038	26.305	174.9	0.528	2.45	38.0							201
250	9.20	9.17	34.234	26.491	158.3	0.611									252
300	8.06	8.03	34.175	26.622	146.2	0.687	1.61	24.2	47.5	2.47	31.0	0.00			302
400	7.47	7.43	34.272	26.785	132.1	0.826									403
500	6.32	6.28	34.299	26.969	115.1	0.950	0.43	6.2							504
505	6.25	6.20	34.307H	26.979	114.2	0.956	0.41	5.9	77.7	3.09	39.4	0.01			509

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 103 60

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 6.9 N	118 24.7 W	08/06/81	1120 GMT	3546 M	330	14 KT			1012.5 MB	17.2 C	16.0 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.21	18.21	33.747	24.262	365.0	0.000	5.40	100.2	3.2	0.33	0.6	0.01	0.11	0.05	0
10	17.73	17.72	33.726	24.365	355.6	0.036	5.60	102.9							10
11	17.70	17.70	33.725H	24.370	355.1	0.040	5.61	103.1	3.2	0.32	0.5	0.01	0.13	0.03	11
20	17.66	17.66	33.712	24.370	355.5	0.072	5.63	103.3	3.0	0.31	0.4	0.01	0.15	0.07	20
30	17.62	17.61	33.703	24.373	355.5	0.107	5.63	103.3	3.1	0.31	0.2	0.01	0.23	0.09	30
50	13.61	13.60	33.634	25.214	275.8	0.170	5.14	87.1	7.1	0.66	2.5	0.37	0.67	0.66	50
75	12.12	12.11	33.586	25.470	251.9	0.236	4.32	70.9	12.7	1.12	11.3	0.08	0.19	0.22	75
100	10.71	10.70	33.651	25.780	222.9	0.296	3.78	60.1							100
101	10.66	10.65	33.658	25.793	221.6	0.298	3.76	59.8	18.6	1.45	17.0	0.04	0.05	0.11	101
125	9.45	9.43	33.792	26.105	192.4	0.347	3.61	55.9							125
126	9.41	9.40	33.801	26.116	191.3	0.349	3.60	55.8	24.1	1.63	20.6	0.02	0.01	0.04	126
150	9.27	9.25	33.968	26.270	177.2	0.394	3.13	48.4	28.8	1.82	23.4	0.02	0.01	0.03	151
175	10.20	10.18	34.312	26.384	167.2	0.437									176
200	9.89	9.87	34.320	26.444	162.0	0.478	1.09	17.1	38.6	2.49	28.9	0.01	0.00	0.03	201
250	9.31	9.28	34.307	26.530	154.6	0.557									252
300	8.23	8.20	34.253	26.657	142.9	0.631	0.84	12.7	49.2	2.71	31.8	0.01			302
400	6.78	6.74	34.229	26.846	125.6	0.766									403
500	6.34	6.29	34.364H	27.012	111.1	0.884	0.31	4.5	77.8	3.11	39.5	0.01			504

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 103 70

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
29 46.9 N	119 4.4 W	08/06/81	1712 GMT	3452 M	340	16 KT	320 3 5	2	1014.9 MB	18.5 C	17.0 C		8/8	ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.34	17.34	33.643	24.393	352.5	0.000	5.65	103.0	3.5	0.35	0.6	0.02	0.10	0.03	0
10	17.29	17.29	33.637H	24.401	352.1	0.035	5.66	103.1	3.6	0.34	0.3	0.01	0.09	0.02	10
20	17.22	17.22	33.630	24.413	351.4	0.070	5.69	103.5	3.2	0.33	0.2	0.01	0.09	0.03	20
30	17.04	17.04	33.626	24.452	347.9	0.105	5.72	103.7	3.2	0.33	0.2	0.01	0.10	0.01	30
49	15.93	15.92	33.562	24.660	328.7	0.170	5.88	104.3	2.9	0.36	0.2	0.01	0.17	0.08	49
50	15.82	15.82	33.554	24.679	326.9	0.173	5.87	104.0							50
75	13.05	13.04	33.481	25.209	276.9	0.248	5.41	90.5	4.1	0.69	4.0	0.17	1.28	0.53	75
100	11.33	11.32	33.576	25.610	239.2	0.313	4.41	71.2	14.7	1.18	13.1	0.05	0.11	0.13	100
125	10.47	10.46	33.631	25.806	221.0	0.370	3.97	62.9	19.4	1.42	17.5	0.03	0.05	0.08	125
150	9.70	9.68	33.763	26.039	199.1	0.423	3.54	55.2	24.9	1.66	21.4	0.02	0.01	0.04	151
200	8.94	8.92	33.985	26.336	171.8	0.516	2.56	39.3	35.4	2.07	27.0	0.01	0.02	0.04	201
250	8.33	8.30	34.072	26.500	157.0	0.598									252
299	8.08	8.05	34.197	26.656	144.9	0.672	1.42	21.4	49.2	2.55	31.8	0.01			301
300	8.07	8.04	34.191	26.638	144.7	0.675	1.41	21.2							302
400	6.67	6.63	34.176	26.919	128.1	0.810									403
500	6.23	6.19	34.299H	26.975	114.5	0.931	0.43	6.2	77.8	3.08	39.5	0.01			504

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 103 80						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
29 26.9 N	119 44.1 W	08/06/81	2345 GMT	3832 M	340	19 KT	330 4 5	2	1015.2 MB	18.2 C	16.8 C	3/8		ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.74	17.74	33.633	24.290	362.4	0.000	5.62	103.3	3.1	0.31	0.2	0.02	0.06	0.02	0		
9	17.72	17.72	33.619H	24.284	363.3	0.033	5.64	103.6	3.1	0.33	0.2	0.01	0.06	0.02	9		
10	17.71	17.71	33.618	24.285	363.2	0.036	5.64	103.6							10		
19	17.67	17.67	33.614	24.293	362.8	0.069	5.64	103.5	3.5	0.33	0.2	0.01	0.06	0.02	19		
20	17.65	17.65	33.615	24.299	362.3	0.073	5.64	103.5							20		
30	17.33	17.33	33.624	24.382	354.6	0.108	5.69	103.7	3.6	0.34	0.2	0.01	0.07	0.02	30		
49	15.84	15.83	33.435	24.583	336.1	0.174	5.96	105.5	3.6	0.37	0.1	0.01	0.09	0.02	49		
50	15.80	15.79	33.431	24.591	335.3	0.177	5.96	105.4							50		
75	14.82	14.81	33.453	24.821	314.0	0.259	5.93	102.8	3.9	0.38	0.1	0.01	0.17	0.11	75		
100	13.07	13.06	33.456	25.186	279.8	0.333	5.37	89.8	7.3	0.67	4.4	0.16	0.24	0.16	100		
124	11.31	11.29	33.500	25.555	245.0	0.396	4.85	78.2	11.9	1.01	10.5	0.04	0.13	0.11	124		
125	11.27	11.25	33.502	25.567	243.8	0.398	4.83	77.7							125		
150	10.46	10.44	33.664	25.833	218.9	0.456	4.29	67.9	17.8	1.32	16.0	0.03	0.05	0.06	151		
200	9.02	9.00	33.874	26.237	181.2	0.556	3.65	56.0	27.7	1.67	22.3	0.01	0.01	0.02	201		
250	8.09	8.06	33.972	26.457	160.8	0.642									252		
300	7.41	7.38	34.028	26.600	147.8	0.719	2.16	32.0	49.4	2.33	31.5	0.01			302		
400	6.34	6.30	34.122	26.820	127.7	0.856									403		
500	5.72	5.68	34.267	27.019	109.7	0.975	0.65	9.3							504		
501	5.72	5.68	34.276H	27.021	109.6	0.976	0.65	9.3	84.6	3.12	38.5	0.01			505		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 103 90						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
29 6.9 N	120 23.6 W	09/06/81	0512 GMT	3738 M	360	19 KT			1016.6 MB	17.2 C	16.2 C			ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.51	17.51	33.618	24.333	358.3	0.000	5.63	103.0							0		
1	17.51	17.51	33.618	24.333	358.3	0.004	5.63	103.0	3.7	0.33	0.5	0.02	0.08	0.02	1		
10	17.51	17.51	33.586H	24.309	360.9	0.036	5.66	103.5	3.7	0.33	0.5	0.02	0.11	0.03	10		
19	17.34	17.34	33.644	24.395	353.1	0.068	5.66	103.2	3.7	0.32	0.5	0.02	0.09	0.01	19		
20	17.34	17.33	33.647	24.398	352.7	0.072	5.66	103.3							20		
29	17.30	17.30	33.661	24.418	351.2	0.103	5.70	103.9	4.1	0.30	0.5	0.02	0.10	0.02	29		
30	17.27	17.26	33.655	24.422	350.9	0.107	5.71	104.0							30		
49	16.58	16.57	33.580	24.525	341.6	0.173	5.83	104.7	3.7	0.32	0.4	0.02	0.10	0.02	49		
50	16.58	16.57	33.581	24.529	341.3	0.176	5.83	104.7							50		
74	16.48	16.47	33.714	24.652	330.3	0.257	5.79	103.9	3.7	0.29	0.4	0.02	0.15	0.05	74		
75	16.46	16.45	33.716	24.660	329.6	0.260	5.79	103.9							75		
100	15.48	15.46	33.798	24.944	303.3	0.339	5.66	99.6	4.2	0.31	0.4	0.02	0.30	0.27	100		
125	13.04	13.02	33.726	25.402	259.9	0.409	5.15	86.2	8.0	0.65	6.1	0.08	0.14	0.20	125		
150	11.20	11.18	33.641	25.685	233.2	0.471	4.76	76.6	13.3	1.01	11.9	0.03	0.07	0.08	151		
199	9.06	9.04	33.748	26.132	191.1	0.575	3.88	59.6	25.5	1.58	21.6	0.02	0.01	0.01	200		
200	9.04	9.02	33.747	26.138	190.5	0.577	3.86	59.3							201		
250	8.31	8.28	33.926	26.388	167.5	0.666									252		
300	7.64	7.61	33.997	26.543	153.3	0.747	2.47	36.8	45.3	2.22	30.5	0.01			302		
400	6.39	6.35	34.099	26.795	130.1	0.888									403		
500	5.88	5.84	34.240	26.978	113.8	1.010	0.56	8.0							504		
501	5.88	5.84	34.248H	26.979	113.7	1.011	0.55	7.9	81.1	3.04	40.2	0.01			505		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 107 32						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE			
30 27.5 N	116 9.8 W	11/06/81	0139 GMT	164 M	300	6 KT	270 5 6	2	1010.2 MB	18.0 C	16.1 C			ST			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS		
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR		
0	17.46	17.46	33.660	24.378	354.1	0.000	6.45	117.9							0		
1	17.46	17.46	33.660	24.378	354.1	0.004	6.45	117.9	4.6	0.28	0.0	0.01	1.28	0.28	1		
10	15.41	15.41	33.567H	24.779	316.1	0.034	5.85	102.7	5.5	0.53	1.2	0.09	2.81	0.57	10		
19	12.91	12.91	33.570	25.304	266.4	0.060	5.02	83.8	7.8	0.86	6.6	0.27	0.90	0.37	19		
20	12.77	12.77	33.570	25.331	263.8	0.063	4.96	82.5							20		
30	12.04	12.04	33.583	25.482	249.7	0.088	4.42	72.4	13.2	1.15	11.4	0.38	0.56	0.42	30		
40	11.58	11.57	33.660	25.628	236.0	0.113	3.72	60.4	17.7	1.42	15.5	0.27	0.23	0.32	40		
50	11.36	11.35	33.698	25.698	229.6	0.136	3.61	58.3	18.6	1.46	16.4	0.17	0.22	0.32	50		
60	10.82	10.81	33.734	25.823	217.9	0.158	3.44	55.0	20.4	1.53	17.7	0.11	0.16	0.30	60		
69	10.78	10.77	33.756	25.848	215.8	0.178	3.18	50.8	23.2	1.68	19.8	0.05	0.13	0.22	69		
75	10.73	10.72	33.756	25.859	214.9	0.191	3.17	50.5							75		
80	10.67	10.66	33.759	25.870	213.9	0.201	3.16	50.3	23.4	1.69	20.1	0.04	0.09	0.24	80		
100	10.38	10.37	33.823	25.970	204.8	0.243	2.97	47.0	25.6	1.79	21.3	0.04	0.06	0.16	100		
125	10.12	10.11	33.889	26.067	196.1	0.293	2.55	40.1	29.6	2.00	23.6	0.16	0.04	0.18	125		
138	9.96	9.94	33.960H	26.150	188.5	0.318	2.41	37.8	31.6	2.08	24.3	0.19	0.04	0.25	139		

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 107 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
30 11.5 N	116 41.8 W	10/06/81	1834 GMT	2602 M	270	9 KT	290 5 05	2	1011.2 MB	18.0 C	16.5 C	8/8		ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.78	17.78	33.693H	24.326	359.0	0.000	5.65	103.9	3.7	0.32	0.2	0.02	0.09	0.02	0
10	17.79	17.79	33.691H	24.322	359.7	0.036	5.66	104.1	3.6	0.31	0.2	0.02	0.11	0.01	10
20 ISL	17.07	17.07	33.641	24.457	347.2	0.071	5.74	104.1							20
21	16.98	16.98	33.635	24.473	345.6	0.075	5.75	104.1	3.6	0.34	0.1	0.02	0.09	0.03	21
30	16.32	16.32	33.560	24.569	336.8	0.105	5.90	105.5	3.6	0.35	0.1	0.02	0.12	0.05	30
50 ISL	15.03	15.02	33.506	24.818	313.6	0.170	5.89	102.6							50
51	14.96	14.95	33.508	24.833	312.2	0.174	5.89	102.5	3.6	0.43	0.1	0.03	0.50	0.26	51
75	12.54	12.53	33.540	25.354	263.0	0.243	4.70	77.8	11.2	0.96	9.6	0.08	0.14	0.16	75
100	10.86	10.85	33.633	25.739	226.9	0.304	4.20	67.1	17.7	1.31	15.6	0.04	0.05	0.09	100
125	9.82	9.81	33.747	26.006	201.7	0.357	3.87	60.5	22.7	1.50	19.2	0.03	0.02	0.04	125
150	9.48	9.46	33.812	26.114	192.0	0.407	3.46	53.7	26.7	1.71	22.1	0.02	0.01	0.03	151
200	8.89	8.87	34.029	26.379	167.7	0.497	2.55	39.1	36.1	2.07	26.9	0.02	0.00	0.02	201
250	8.51	8.48	34.137	26.523	154.8	0.577									252
299	8.19	8.16	34.191	26.615	146.9	0.651	1.29	19.5	49.4	2.57	31.6	0.03			301
300 ISL	8.18	8.15	34.186	26.617	146.8	0.653									302
400	7.33	7.29	34.252	26.789	131.6	0.792									403
500	6.42	6.37	34.307	26.957	116.4	0.916									504

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 107 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
29 51.5 N	117 21.6 W	10/06/81	1110 GMT	2602 M	280	19 KT			1009.8 MB	17.5 C	16.0 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.60	17.60	33.683	24.362	355.6	0.000	5.63	103.2	2.3	0.32	0.3	0.01	0.09	0.02	0
10 ISL	17.60	17.60	33.660	24.345	357.5	0.036	5.65	103.5							10
11	17.60	17.60	33.659H	24.344	357.6	0.039	5.65	103.6	2.3	0.31	0.1	0.01	0.10	0.02	11
20	17.33	17.33	33.567	24.338	358.5	0.071	5.66	103.2	2.3	0.30	0.1	0.01	0.09	0.02	20
30	16.31	16.31	33.526	24.545	339.1	0.106	5.86	104.7	2.4	0.33	0.1	0.01	0.09	0.03	30
50	14.23	14.22	33.466	24.956	300.4	0.170	6.03	103.4	2.6	0.37	0.1	0.01	0.21	0.09	50
75 ISL	12.35	12.34	33.555	25.405	258.2	0.240	4.95	81.7							75
76	12.28	12.27	33.563	25.422	256.6	0.243	4.90	80.7	8.4	0.87	8.2	0.27	0.36	0.34	76
99	10.74	10.73	33.717	25.825	218.6	0.297	4.16	66.3	14.6	1.23	14.4	0.04	0.10	0.17	99
100 ISL	10.71	10.69	33.719	25.834	217.7	0.300	4.12	65.7							100
125	10.22	10.21	33.819	25.995	202.9	0.352	3.21	50.6	22.5	1.63	20.7	0.02	0.04	0.12	125
150	10.00	9.98	33.954	26.138	189.8	0.401	2.53	39.7	28.0	1.92	24.2	0.02	0.01	0.06	151
200	9.46	9.44	34.083	26.330	172.6	0.492	2.26	35.1	32.9	2.07	26.4	0.01	0.00	0.05	201
250	8.84	8.81	34.145	26.478	159.3	0.575									252
300	8.05	8.02	34.124	26.583	149.8	0.652	1.81	27.2	45.3	2.34	30.6	0.01			302
400	7.21	7.17	34.203	26.767	133.5	0.794									403
500	7.00	6.95	34.360H	26.921	120.4	0.921	0.38	5.6	68.8	2.96	36.9	0.01			504

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105						STATION 107 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
29 51.5 N	118 1.3 W	10/06/81	0518 GMT	3546 M	290	20 KT			1011.9 MB	18.0 C	16.0 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	18.60	18.60	33.760	24.175	373.3	0.000	5.56	103.9	2.8	0.30	0.1	0.02	0.11	0.01	0
10	18.57	18.57	33.767H	24.188	372.4	0.037	5.57	104.0	2.8	0.29	0.0	0.01	0.12	0.02	10
19	18.38	18.38	33.700	24.185	373.1	0.071	5.57	103.6	2.7	0.29	0.0	0.01	0.13	0.02	19
20 ISL	18.32	18.32	33.694	24.196	372.0	0.075	5.59	103.8							20
29	17.62	17.62	33.670	24.348	357.9	0.107	5.73	105.1	2.9	0.31	0.0	0.01	0.18	0.04	29
30 ISL	17.54	17.54	33.667	24.366	356.2	0.111	5.72	104.8							30
49	15.80	15.79	33.665	24.768	318.4	0.175	5.56	98.4	4.1	0.42	0.0	0.02	0.48	0.08	49
50 ISL	15.67	15.66	33.663	24.798	315.6	0.178	5.49	96.9							50
75	12.44	12.43	33.731	25.522	247.1	0.249	3.57	59.0	15.2	1.33	14.3	0.04	0.19	0.12	75
100	10.49	10.48	33.792	25.927	208.9	0.306	3.25	51.6	23.5	1.66	20.9	0.02	0.03	0.04	100
125	10.20	10.19	33.958	26.107	192.3	0.356	2.69	42.4	27.2	1.88	23.5	0.01	0.01	0.04	125
150 ISL	9.64	9.62	34.056	26.282	176.2	0.402	2.58	40.3							151
151	9.61	9.59	34.062	26.288	175.6	0.403	2.58	40.2	30.8	1.97	25.0	0.01	0.01	0.03	152
199	8.34	8.32	34.000	26.441	161.6	0.484	2.75	41.6	37.2	2.02	27.5	0.01	0.01	0.03	200
200 ISL	8.32	8.30	33.995	26.443	161.4	0.486	2.74	41.4							201
250	7.86	7.84	34.038	26.543	152.6	0.565									252
300	7.94	7.91	34.259	26.705	138.2	0.637	0.89	13.4	50.9	2.65	32.1	0.00			302
400	7.27	7.23	34.276	26.816	129.0	0.771									403
500 ISL	6.26	6.22	34.281	26.962	115.7	0.893	0.45	6.6							504
502	6.24 H	6.19	34.288H	26.965	115.4	0.896	0.45	6.5	76.0	2.99	38.9	0.00			506



RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 107 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
29 11.5 N	118 40.8 W	09/06/81	2331 GMT	2981 M	280	18 KT	310 6 5	0	1013.2 MB	19.5 C	17.3 C		0/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	18.24	18.24	33.729	24.241	367.1	0.000	5.57	103.4	2.9	0.28	0.1	0.02	0.12	0.01	0	
10	18.10	18.10	33.715	24.265	365.1	0.037	5.58	103.3	2.9	0.29	0.1	0.02	0.08	0.01	10	
20	17.04	17.04	33.639	24.462	346.7	0.072	5.68	103.0	3.2	0.30	0.1	0.02	0.10	0.02	20	
30	17.04	17.04	33.660	24.479	345.4	0.107	5.71	103.6	3.2	0.30	0.1	0.02	0.08	0.01	30	
50	15.89	15.88	33.596	24.695	325.4	0.174	5.76	102.1	3.3	0.28	0.0	0.02	0.10	0.04	50	
75	12.62	12.61	33.574	25.365	262.0	0.247	5.21	86.4	7.4	0.67	5.2	0.25	0.43	0.23	75	
100	10.77	10.76	33.658	25.774	223.5	0.308	4.14	66.0	16.9	1.27	15.4	0.04	0.07	0.11	100	
125	9.98	9.97	33.778	26.004	202.0	0.361	3.61	56.6	23.3	1.56	20.1	0.03	0.02	0.03	125	
150	9.75	9.73	33.926	26.158	187.9	0.410	2.98	46.5	28.0	1.82	23.5	0.02	0.00	0.02	151	
200	8.90	8.88	34.096	26.430	162.9	0.498	2.29	35.1	37.2	2.13	27.4	0.01	0.01	0.02	201	
250	8.18	8.15	34.128	26.566	150.6	0.576									252	
300	7.69	7.66	34.181	26.680	140.4	0.649	1.34	20.0	55.3	2.21	33.6	0.01			302	
400	6.91	6.87	34.264	26.856	124.9	0.781									403	
500 ISL	6.21	6.17	34.330	27.008	111.4	0.899	0.32	4.7							504	
502	6.20	6.16	34.339H	27.010	111.1	0.902	0.32	4.6	78.6	3.10	39.4	0.01			506	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 107 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
28 51.5 N	119 20.2 W	09/06/81	1633 GMT	3738 M	310	20 KT	310 6 6	0	1014.6 MB	19.2 C	17.8 C		0/8			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.56	17.56	33.670	24.361	355.6	0.000	5.63	103.1	3.3	0.30	0.3	0.02	0.09	0.00	0	
10 ISL	17.54	17.54	33.658	24.357	356.3	0.036	5.64	103.2							10	
11	17.54	17.54	33.657H	24.356	356.4	0.039	5.64	103.3	3.2	0.30	0.2	0.02	0.08	0.00	11	
19	17.23	17.23	33.668	24.439	348.8	0.067	5.68	103.4	3.1	0.30	0.2	0.02	0.09	0.01	19	
20 ISL	17.21	17.21	33.663	24.440	348.8	0.071	5.68	103.4							20	
29	17.12	17.12	33.644	24.447	348.4	0.102	5.70	103.5	3.2	0.30	0.2	0.01	0.09	0.01	29	
30 ISL	17.12	17.11	33.647	24.451	348.0	0.106	5.71	103.6							30	
50 ISL	16.54	16.53	33.571	24.531	341.1	0.175	5.79	103.9							50	
51	16.48	16.47	33.562	24.535	340.7	0.178	5.79	103.8	3.1	0.32	0.1	0.02	0.11	0.03	51	
74	13.76	13.75	33.503	25.083	289.0	0.250	5.67	96.3	4.4	0.48	1.3	0.10	0.32	0.17	74	
75 ISL	13.69	13.68	33.504	25.098	287.5	0.253	5.64	95.7							75	
100	12.47	12.46	33.601	25.416	257.8	0.322	4.90	81.0	8.7	0.83	7.2	0.23	0.28	0.16	100	
125	11.02	11.00	33.622	25.702	230.9	0.383	4.34	69.6	14.9	1.16	13.7	0.05	0.08	0.16	125	
150 ISL	10.07	10.05	33.811	26.018	201.3	0.437	3.48	54.6							151	
151	10.04	10.02	33.824	26.030	200.2	0.439	3.44	54.0	22.9	1.60	20.2	0.02	0.03	0.05	152	
200	9.16	9.14	34.064	26.363	169.3	0.529	2.43	37.5	32.1	2.02	25.9	0.02	0.02	0.03	201	
250	7.94	7.91	33.995	26.497	157.0	0.611									252	
299	7.42	7.39	34.068	26.630	144.9	0.685	1.98	29.3	49.7	2.36	31.4	0.02			301	
300 ISL	7.41	7.38	34.064	26.632	144.8	0.686	1.97	29.3							302	
400	6.69	6.65	34.170	26.812	128.8	0.823									403	
500	5.81	5.77	34.237H	26.979	113.6	0.944	0.57	8.1	80.0	3.04	39.9	0.02			504	

GF/F CHLOROPHYLL FILTER ALSO USED FOR COMPARISON.

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 107 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
28 31.5 N	119 59.5 W	09/06/81	1032 GMT	4117 M	320	20 KT			1015.2 MB	17.2 C	16.5 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.84	17.84	33.653	24.281	363.3	0.000	5.53	101.8	3.4	0.32	0.5	0.02	0.09	0.01	0	
10	17.84	17.84	33.639H	24.270	364.6	0.036	5.63	103.6	3.4	0.31	0.4	0.02	0.08	0.02	10	
20 ISL	17.50	17.49	33.621	24.340	358.3	0.073	5.68	103.8							20	
21	17.46	17.46	33.621	24.348	357.5	0.076	5.68	103.8	3.4	0.32	0.4	0.02	0.09	0.01	21	
30	17.41	17.40	33.647	24.391	354.8	0.108	5.69	103.9	3.4	0.31	0.3	0.01	0.07	0.01	30	
50	16.50	16.49	33.526	24.502	343.8	0.178	5.83	104.6	3.6	0.34	0.3	0.02	0.12	0.02	50	
74	14.98	14.97	33.354	24.710	324.5	0.258	5.97	103.8	3.8	0.39	0.3	0.02	0.24	0.14	74	
75 ISL	14.95	14.94	33.357	24.721	323.6	0.261	5.96	103.5							75	
100	14.11	14.10	33.534	25.035	294.4	0.339	5.46	93.4	5.9	0.54	2.6	0.27	0.26	0.30	100	
125 ISL	11.73	11.72	33.455	25.446	255.4	0.407	5.08	82.6							125	
126	11.63	11.61	33.457	25.463	253.8	0.410	5.06	82.1	10.0	0.88	8.9	0.06	0.13	0.15	126	
150	10.11	10.09	33.585	25.832	218.9	0.467	4.20	66.0	18.8	1.37	17.3	0.03	0.04	0.06	151	
200	8.94	8.92	33.887	26.260	179.0	0.566	3.17	48.6	29.6	1.86	24.4	0.02	0.00	0.02	201	
250	8.15	8.12	34.001	26.471	159.6	0.651									252	
299	7.41	7.38	34.032	26.603	147.5	0.726									301	
300 ISL	7.40	7.37	34.027	26.606	147.3	0.727	2.31	34.3							302	
400	6.41	6.37	34.111	26.802	129.4	0.866									403	
500	5.65	5.61	34.221H	26.986	112.7	0.987	0.60	8.5	82.7	3.03	40.3	0.01			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 110 32.4					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
29 52.4 N	115 49.5 W	11/06/81	0815 GMT	47 M	010	9 KT			1009.8 MB	17.0 C	16.0 C					
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAE0	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0 ISL	16.88	16.88	33.612	24.478	344.5	0.000	6.00	108.5							0	
1	16.88	16.88	33.612	24.478	344.5	0.003	6.00	108.5	3.6	0.29	0.2	0.02	0.30	0.09	1	
10	15.16	15.16	33.585H	24.847	309.6	0.033	6.12	107.0	4.2	0.35	0.2	0.03	0.48	0.17	10	
20	13.28	13.28	33.605	25.257	270.9	0.062	4.98	83.8	8.7	0.82	6.3	0.23	0.72	0.25	20	
30 ISL	12.49	12.48	33.567	25.386	258.9	0.088	4.42	73.2							30	
31	12.43	12.43	33.568	25.396	257.9	0.091	4.38	72.4	13.0	1.10	10.9	0.27	0.50	0.28	31	
36	11.97	11.97	33.632H	25.534	244.9	0.104	4.05	66.3	15.2	1.25	13.6	0.25	0.36	0.26	36	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 110 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
29 37.2 N	116 19.7 W	11/06/81	1355 GMT	2227 M	020	13 KT	310 5 6	2	1009.5 MB	17.0 C	15.5 C	8/8		ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.23	17.23	33.657	24.430	349.0	0.000	5.69	103.6	3.4	0.32	0.2	0.03	0.10	0.03	0	
10	17.14	17.14	33.645H	24.443	348.2	0.035	5.71	103.7	3.4	0.32	0.2	0.03	0.10	0.03	10	
20	16.26	16.26	33.560	24.583	335.2	0.069	5.78	103.2	3.3	0.32	0.2	0.02	0.11	0.04	20	
30	15.04	15.04	33.531	24.833	311.6	0.101	5.93	103.4	3.2	0.38	0.2	0.02	0.24	0.12	30	
50	12.90	12.89	33.552	25.293	268.2	0.159	5.32	88.8	6.0	0.71	5.1	0.26	0.86	0.38	50	
75	11.03	11.02	33.672	25.738	226.3	0.221	3.66	58.7	18.9	1.44	17.0	0.06	0.14	0.22	75	
99	10.06	10.05	33.937	26.114	191.0	0.271	3.05	48.0	25.9	1.78	22.3	0.04	0.02	0.06	99	
100	ISL	10.07	33.944	26.120	190.5	0.273	3.02	47.5							100	
125	10.34	10.33	34.108	26.200	183.5	0.320	2.33	36.9	29.5	2.02	24.9	0.03	0.02	0.06	125	
150	9.73	9.71	34.107	26.303	174.2	0.365	2.08	32.5	33.6	2.18	26.6	0.03	0.02	0.06	151	
200	8.99	8.97	34.197	26.495	156.8	0.447	1.60	24.6	41.0	2.42	29.5	0.04	0.05	0.06	201	
250	8.75	8.72	34.249	26.574	150.2	0.524									252	
300	ISL	8.28	34.246	26.649	143.7	0.598	0.93	14.0							302	
301	8.27	8.24	34.252	26.651	143.6	0.599	0.92	13.9	50.8	2.66	32.4	0.02			303	
400	7.44	7.40	34.304	26.814	129.3	0.734									403	
500	6.53	6.48	34.366H	26.989	113.5	0.856	0.28	4.1	75.5	3.05	38.8	0.02			504	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 110 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
29 17.2 N	116 59.2 W	11/06/81	2107 GMT	2981 M	360	13 KT	330 5 5	2	1012.5 MB	18.7 C	16.6 C	8/8		ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	17.82	17.82	33.690	24.314	360.1	0.000	5.82	107.1	3.1	0.25	0.1	0.03	0.36	0.09	0	
9	17.75	17.75	33.671H	24.316	360.2	0.032	5.83	107.2	3.1	0.26	0.1	0.03	0.40	0.08	9	
10	ISL	17.74	33.671	24.318	360.0	0.036	5.83	107.2							10	
20	17.69	17.69	33.675	24.334	358.9	0.072	5.86	107.6	3.2	0.26	0.1	0.03	0.68	0.12	20	
30	16.53	16.53	33.651	24.591	334.7	0.107	5.53	99.3	5.5	0.48	0.5	0.06	1.17	0.43	30	
50	11.84	11.83	33.659	25.579	240.9	0.164	3.68	60.1	16.1	1.34	15.1	0.06	0.17	0.20	50	
75	10.60	10.59	33.791	25.907	210.2	0.221	3.14	49.9	22.4	1.65	20.5	0.05	0.05	0.08	75	
100	10.04	10.03	33.918	26.103	192.2	0.271	2.76	43.4	27.5	1.86	23.5	0.03	0.03	0.07	100	
125	9.59	9.58	33.990	26.234	180.1	0.317	2.59	40.3	31.1	1.96	25.3	0.03	0.01	0.05	125	
150	9.33	9.31	34.091	26.356	169.0	0.361	2.19	33.9	35.1	2.13	27.0	0.03	0.01	0.06	151	
200	8.88	8.86	34.149	26.474	158.7	0.443	1.79	27.4	40.5	2.29	29.2	0.02	0.01	0.03	201	
250	8.52	8.49	34.195	26.567	150.7	0.520									252	
300	8.00	7.97	34.206	26.655	143.0	0.594	1.09	16.4	52.4	2.61	32.6	0.02			302	
400	7.13	7.09	34.239	26.807	129.7	0.730									403	
500	ISL	6.27	34.315	26.988	113.3	0.852	0.36	5.1							504	
504	6.24	6.19	34.327H	26.996	112.6	0.856	0.35	5.1	78.2	3.05	39.4	0.02			508	

RV DAVID STARR JORDAN				CALCOFI CRUISE 8105							STATION 110 60					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE		
28 57.2 N	117 38.7 W	12/06/81	0316 GMT	3642 M	010	20 KT	330 6 4	0	1011.9 MB	18.4 C	16.8 C	0/8				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS	
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR	
0	18.61	18.61	33.778	24.187	372.2	0.000	5.55	103.7	3.1	0.29	0.3	0.02	0.15	0.03	0	
10	18.61	18.61	33.761H	24.174	373.8	0.037	5.58	104.3	3.1	0.28	0.2	0.02	0.13	0.01	10	
20	18.57	18.57	33.753	24.178	373.8	0.075	5.57	104.0	3.1	0.28	0.2	0.02	0.12	0.02	20	
29	18.22	18.21	33.706	24.229	369.2	0.108	5.63	104.4	3.1	0.28	0.2	0.02	0.17	0.03	29	
30	ISL	18.08	33.695	24.255	366.7	0.112	5.64	104.3							30	
48	15.11	15.10	33.576	24.853	310.3	0.173	5.76	100.6	3.7	0.38	0.1	0.03	0.45	0.05	48	
50	ISL	14.86	33.577	24.910	304.8	0.179	5.64	98.0							50	
75	12.36	12.35	33.689	25.505	248.7	0.248	3.92	64.7	14.7	1.25	13.4	0.07	0.26	0.19	75	
100	10.69	10.68	33.764	25.870	214.3	0.306	3.43	54.6	21.2	1.57	19.4	0.04	0.09	0.09	100	
125	ISL	9.79	33.839	26.086	194.2	0.357	3.15	49.2							125	
126	9.77	9.76	33.846	26.092	193.7	0.359	3.14	49.0	26.6	1.76	22.7	0.03	0.02	0.04	126	
150	9.78	9.76	34.009	26.218	182.2	0.404	2.77	43.3	30.0	1.91	24.7	0.02	0.02	0.03	151	
200	9.11	9.09	34.161	26.447	161.3	0.490	2.19	33.8	38.0	2.17	27.9	0.02	0.01	0.02	201	
250	8.49	8.46	34.189	26.567	150.7	0.568									252	
300	ISL	8.21	34.215	26.636	145.0	0.642	0.84	12.7							302	
301	8.20	8.17	34.221	26.637	144.9	0.643	0.83	12.5	51.6	2.68	32.3	0.01			303	
400	6.81	6.77	34.247	26.857	124.7	0.777									403	
500	6.18	6.14	34.331H	27.007	111.4	0.895	0.33	4.8	78.7	3.06	39.4	0.01			504	

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 110 70

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
28 37.2 N	118 18.0 W	12/06/81	0935 GMT	3358 M	360	18 KT			1012.5 MB	18.0 C	16.8 C				
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.99	17.99	33.703	24.282	363.1	0.000	5.61	103.6	3.5	0.29	0.2	0.02	0.10	0.01	0
9	18.00	18.00	33.678H	24.261	365.5	0.033	5.63	104.0	3.5	0.28	0.1	0.02	0.10	0.02	9
10 ISL	18.00	18.00	33.678	24.261	365.4	0.036	5.63	104.0							10
20	18.00	18.00	33.689	24.270	365.0	0.073	5.63	104.0	3.5	0.28	0.1	0.02	0.11	0.03	20
30	17.95	17.94	33.670	24.268	365.6	0.109	5.64	104.1	3.4	0.28	0.1	0.02	0.10	0.01	30
50	15.42	15.41	33.382	24.635	331.1	0.179	5.98	104.9	3.9	0.34	0.1	0.02	0.06	0.03	50
75	14.15	14.14	33.516	25.012	295.8	0.258	5.74	98.2	5.3	0.40	0.6	0.08	0.39	0.11	75
100	10.91	10.90	33.535	25.653	235.0	0.324	4.83	77.2	12.4	0.97	10.6	0.05	0.18	0.16	100
125	10.09	10.08	33.594	25.842	217.4	0.380	4.22	66.3	19.2	1.34	17.1	0.03	0.06	0.06	125
150 ISL	9.10	9.08	33.726	26.111	192.1	0.432	3.75	57.6							151
151	9.06	9.04	33.736	26.122	191.1	0.434	3.73	57.3	26.9	1.62	22.2	0.02	0.00	0.03	152
200	8.83	8.81	34.020	26.381	167.4	0.521	2.51	38.4	36.8	2.05	27.6	0.01	0.00	0.03	201
250	8.29	8.26	34.122	26.545	152.7	0.601									252
300	8.18	8.15	34.247	26.660	142.6	0.675	0.99	14.9	51.9	2.61	32.1	0.01			302
400	6.69	6.65	34.205	26.840	126.2	0.810									403
500	6.24	6.20	34.338	27.005	111.7	0.929									504

## RV DAVID STARR JORDAN

## CALCOFI CRUISE 8105

STATION 110 80

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	WIND	SPEED	WAVES	WEATHER	BAROMETER	DRY	WET	CLOUD	AMT	TYPE	
28 17.2 N	118 57.2 W	12/06/81	1754 GMT	4117 M	360	22 KT	350 6 6	1	1015.6 MB	18.5 C	17.5 C		5/8	CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	OXYGEN	OXY	SI03	P04	N03	N02	CHL.A	PHAEO	PRESS
M	DEG C	DEG C		THETA			ML/L	PCT	UM/L	UM/L	UM/L	UM/L	UG/L	UG/L	D.BAR
0	17.83	17.83	33.534	24.192	371.7	0.000	5.61	103.2	3.8	0.32	0.2	0.02	0.07	0.01	0
10 ISL	17.84	17.84	33.529	24.187	372.6	0.037	5.65	103.9							10
11	17.84	17.84	33.529H	24.186	372.7	0.041	5.65	104.0	3.8	0.32	0.2	0.02	0.07	0.01	11
20	17.83	17.83	33.520	24.182	373.4	0.075	5.63	103.6	3.8	0.32	0.2	0.02	0.06	0.01	20
30	17.81	17.80	33.509	24.179	374.0	0.112	5.63	103.5	3.8	0.32	0.2	0.01	0.06	0.02	30
50 ISL	15.56	15.55	33.386	24.610	333.4	0.183	5.94	104.5							50
51	15.42	15.41	33.384	24.637	330.9	0.186	5.96	104.6	3.8	0.33	0.2	0.02	0.10	0.02	51
74	14.04	14.03	33.399	24.945	302.1	0.259	6.04	103.1	4.4	0.37	0.2	0.02	0.17	0.08	74
75 ISL	13.96	13.95	33.394	24.961	300.6	0.262	6.01	102.4							75
100	11.78	11.77	33.398	25.389	260.2	0.332	5.09	82.8	10.6	0.87	9.0	0.07	0.26	0.15	100
125	10.02	10.01	33.572	25.836	217.9	0.392	4.32	67.7	18.4	1.34	17.0	0.04	0.08	0.08	125
150	9.20	9.18	33.728	26.093	193.8	0.443	3.88	59.8	24.9	1.56	21.3	0.02	0.01	0.03	151
200	8.67	8.65	33.934	26.339	171.4	0.534	2.92	44.5	34.3	1.92	26.4	0.02	0.00	0.02	201
250	7.79	7.77	34.005	26.527	154.1	0.616									252
300	7.20	7.17	34.034	26.634	144.4	0.690	1.77	26.1	53.3	2.44	33.4	0.01			302
400	6.45	6.41	34.132	26.814	128.4	0.827									403
497	5.98	5.94	34.298H	27.006	111.2	0.943	0.42	6.0	82.4	3.03	40.1	0.01			501
500	5.96	5.92	34.300	27.010	110.8	0.946									504



STATION 91 30		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 11.1 N	117 43.8 W	19/05/81	2035 GMT	M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0A	18.69	18.69	33.637	24.059	384.4	0.000	0
10	18.69	18.69	33.639	24.061	384.6	0.038	10
20	15.64	15.64	33.485	24.665	327.3	0.074	20
30	14.39	14.39	33.502	24.949	300.5	0.105	30
40	12.51	12.50	33.496	25.325	264.8	0.134	40
50	11.67	11.66	33.522	25.504	248.0	0.159	50
75	10.87	10.86	33.691	25.781	222.2	0.218	76
100	10.19	10.18	33.821	26.001	201.8	0.271	101

A) SHAKEDOWN STATION.

STATION 60 55		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 46.8 N	123 15.3 W	04/06/81	1250 GMT	187 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	32 KT	330 14 3 1		1015.3 MB	12.0 C	11.2 C	1/8 CI
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	9.88	9.88	33.830	26.059	194.1	0.000	0
10	9.86	9.86	33.836	26.067	193.5	0.019	10
20	9.86	9.86	33.836	26.067	193.7	0.039	20
30	9.86	9.86	33.838	26.069	193.8	0.058	30
40	9.82	9.82	33.833	26.072	193.7	0.077	40
50	9.79	9.78	33.830	26.075	193.6	0.097	50
75	9.02	9.01	33.838	26.207	181.6	0.144	76
100	8.62	8.61	33.958	26.364	167.1	0.187	101
125	8.48	8.47	34.042	26.451	159.2	0.228	126
150	8.23	8.21	34.086	26.524	152.7	0.267	151

STATION 60 55		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 46.8 N	123 15.3 W	04/06/81	1320 GMT	M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	9.87	9.87	33.856	26.081	192.0	0.000	0
10	9.86	9.86	33.858	26.084	191.9	0.019	10
20	9.86	9.86	33.857	26.084	192.2	0.038	20
30	9.86	9.86	33.857	26.084	192.4	0.058	30
40	9.86	9.86	33.864	26.090	192.0	0.077	40
50	9.89	9.88	33.877	26.095	191.8	0.096	50
75	9.50	9.49	33.827	26.121	189.8	0.144	76
100	8.64	8.63	33.891	26.308	172.4	0.189	101
125	8.50	8.49	34.036	26.444	160.0	0.231	126
150	8.40	8.38	34.065	26.482	156.8	0.270	151

STATION 60 60		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 36.7 N	123 36.6 W	04/06/81	1702 GMT	3297 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	32 KT	330 10 3 0		1016.2 MB	14.3 C	13.2 C	0/8 CI
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	12.25	12.25	33.103	25.069	288.2	0.000	0
10	12.21	12.21	33.114	25.086	286.9	0.029	10
20	12.15	12.15	33.120	25.102	285.6	0.057	20
30	11.94	11.94	33.143	25.159	280.4	0.086	30
40	11.80	11.79	33.298	25.306	266.6	0.113	40
50	11.39	11.38	33.394	25.456	252.6	0.139	50
75	10.05	10.04	33.547	25.811	219.3	0.198	76
100	9.37	9.36	33.665	26.016	200.2	0.250	101
125	9.11	9.10	33.767	26.137	189.1	0.299	126
150	8.74	8.72	33.849	26.260	177.9	0.345	151
175	8.30	8.28	33.884	26.355	169.2	0.388	176
200	8.08	8.06	33.987	26.469	158.7	0.429	202
225	7.77	7.75	34.020	26.541	152.2	0.468	227
250	7.41	7.39	34.026	26.598	147.1	0.506	252
275	7.23	7.20	34.041	26.635	143.9	0.542	277
300	7.01	6.98	34.087	26.702	137.9	0.577	302
350	6.59	6.56	34.125	26.789	130.1	0.644	353
400	6.02	5.99	34.129	26.866	123.1	0.708	403
450	5.82	5.78	34.184	26.935	117.0	0.768	454
500	5.19	5.15	34.162	26.994	111.4	0.825	504
534	4.76	4.72	34.122	27.011	109.6	0.862	539

STATION 60 70		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 16.3 N	124 20.1 W	05/06/81	0212 GMT	3973 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	26 KT	330 10 6 0		1014.5 MB	15.5 C	14.1 C	0/R CI
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	14.29	14.29	32.886	24.494	342.9	0.000	0
10	14.28	14.28	32.894	24.503	342.4	0.034	10
20	14.28	14.28	32.894	24.503	342.7	0.069	20
30	14.24	14.24	32.894	24.512	342.1	0.103	30
40	14.20	14.19	32.896	24.522	341.4	0.137	40
50	14.07	14.06	32.898	24.551	338.9	0.171	50
75	12.39	12.38	32.928	24.909	305.4	0.251	76
100	12.18	12.17	33.126	25.103	287.5	0.326	101
125	10.88	10.86	33.298	25.475	252.5	0.393	126
150	10.11	10.09	33.530	25.789	223.0	0.453	151
175	9.97	9.95	33.702	25.947	208.5	0.506	176
200	9.34	9.32	33.782	26.114	193.0	0.557	202
225	8.85	8.83	33.874	26.264	179.0	0.603	227
250	8.20	8.17	33.928	26.406	165.7	0.646	252
275	7.71	7.68	33.976	26.516	155.5	0.686	277
300	7.67	7.64	34.033	26.567	151.1	0.725	302
350	7.14	7.11	34.050	26.656	143.2	0.798	353
400	6.56	6.52	34.070	26.750	134.5	0.868	403
450	6.23	6.19	34.128	26.839	126.5	0.933	454
500	5.91	5.87	34.159	26.905	120.7	0.995	504
550	5.38	5.33	34.159	26.969	114.6	1.054	555

STATION 60 80		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
36 56.6 N	125 03.7 W	05/06/81	1043 GMT	4284 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	27 KT	330 14 2		1015.0 MB	14.0 C	13.6 C	8/8
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	14.42	14.42	32.923	24.495	342.8	0.000	0
10	14.42	14.42	32.926	24.498	342.8	0.034	10
20	14.42	14.42	32.925	24.498	343.2	0.069	20
30	14.39	14.39	32.926	24.505	342.8	0.103	30
40	13.42	13.41	32.901	24.685	325.8	0.136	40
50	12.79	12.78	32.939	24.840	311.4	0.168	50
75	12.41	12.40	32.927	24.904	305.8	0.245	76
100	11.68	11.67	33.003	25.101	287.6	0.319	101
125	11.07	11.05	33.313	25.453	254.6	0.387	126
150	10.03	10.01	33.536	25.807	221.2	0.447	151
175	9.30	9.28	33.725	26.075	196.1	0.499	176
200	8.83	8.81	33.867	26.261	178.8	0.546	202
225	8.45	8.43	33.939	26.377	168.2	0.589	227
250	8.04	8.01	33.996	26.483	158.4	0.630	252
275	7.65	7.62	34.024	26.562	151.1	0.669	277
300	7.36	7.33	34.037	26.614	146.4	0.706	302
350	6.81	6.78	34.074	26.720	136.8	0.777	353
400	6.44	6.40	34.113	26.800	129.7	0.843	403
450	5.86	5.82	34.107	26.869	123.3	0.907	454
500	5.43	5.39	34.124	26.935	117.2	0.967	504
522	5.42	5.38	34.157	26.963	114.9	0.992	527

STATION 63 52		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 17.6 N	122 36.4 W	04/06/81	D100 GMT	92 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 19 KT	330 5 5 0	0	1014.9 MB	14.5 C	13.1 C	0/R	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	13.13	13.13	33.858	25.483	248.8	0.000	0
10	11.53	11.53	33.914	25.834	215.7	0.023	10
20	9.97	9.97	33.882	26.085	192.1	0.044	20
30	9.38	9.38	33.857	26.163	184.8	0.062	30
40	9.13	9.13	33.902	26.239	177.8	0.081	40
50	8.99	8.98	33.958	26.305	171.7	0.098	50
75	8.76	8.75	34.004	26.377	165.3	0.140	76
89	8.72	8.71	34.016	26.393	164.1	0.162	89

STATION 63 60		CALCOFI CRUISE R105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
37 02.5 N	123 11.9 W	03/06/81	1510 GMT	2554 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320 27 KT	320 8 3 2		1017.2 MB	13.7 C	13.1 C	9/9 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	11.94	11.94	33.754	25.633	234.5	0.000	0
10	11.91	11.91	33.763	25.646	233.6	0.023	10
20	11.79	11.79	33.788	25.688	229.8	0.047	20
30	11.17	11.17	33.804	25.815	218.0	0.069	30
40	10.64	10.64	33.831	25.930	207.2	0.090	40
50	10.39	10.38	33.828	25.971	203.5	0.111	50
75	9.58	9.57	33.804	26.090	192.7	0.160	76
100	9.12	9.11	33.880	26.224	180.5	0.207	101
125	8.79	8.79	33.938	26.320	171.7	0.251	126
150	8.61	8.59	33.996	26.396	165.0	0.293	151
175	8.46	8.44	34.058	26.468	158.7	0.334	176
200	8.23	8.21	34.103	26.538	152.3	0.372	202
225	7.98	7.96	34.122	26.591	147.7	0.410	227
250	7.75	7.73	34.125	26.630	144.4	0.446	252
275	7.43	7.40	34.145	26.659	139.0	0.482	277
300	7.24	7.21	34.156	26.725	135.9	0.516	302
350	6.80	6.77	34.174	26.800	129.3	0.582	353
400	6.46	6.42	34.197	26.864	123.7	0.646	403
450	6.18	6.14	34.218	26.917	119.1	0.705	454
500	5.74	5.70	34.242	26.991	112.3	0.764	504
550	5.64	5.59	34.276	27.031	109.1	0.820	555

STATION 63 70		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
36 42.7 N	123 54.8 W	03/06/81	G737 GMT	3981 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
310 18 KT		0	1017.5 MB	14.5 C	13.2 C	0/R	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	12.60	12.60	33.049	24.960	298.5	0.000	0
10	12.30	12.30	33.227	25.156	280.1	0.029	10
20	11.30	11.30	33.042	25.198	276.4	0.057	20
30	11.09	11.09	33.198	25.357	261.5	0.084	30
40	11.54	11.53	33.426	25.454	252.6	0.109	40
50	11.69	11.68	33.501	25.484	249.9	0.134	50
75	10.57	10.56	33.666	25.814	219.0	0.193	76
100	10.37	10.36	33.831	25.978	204.0	0.246	101
125	9.63	9.62	33.860	26.126	190.3	0.295	126
150	9.11	9.09	33.898	26.240	179.9	0.342	151
175	8.84	8.82	33.992	26.357	169.3	0.385	176
200	8.29	8.27	33.985	26.437	162.0	0.427	202
225	7.95	7.93	34.018	26.513	155.0	0.466	227
250	7.78	7.76	34.054	26.567	150.3	0.504	252
275	7.45	7.42	34.058	26.618	145.7	0.541	277
300	6.94	6.91	34.045	26.679	140.0	0.577	302
350	6.43	6.40	34.085	26.779	131.0	0.645	353
400	6.13	6.09	34.113	26.840	125.7	0.709	403
450	5.82	5.78	34.147	26.906	119.8	0.770	454
500	5.58	5.54	34.204	26.981	113.2	0.829	504
532	5.57	5.52	34.245	27.015	110.4	0.864	537

STATION 67 50		CALCOFI CRUISE R105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
36 42.0 N	122 03.4 W	01/06/81	2341 GMT	744 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
280 22 KT	290 3 5 1		1015.8 MB	13.5 C	12.0 C	7/R CI	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	11.69	11.69	33.921	25.810	217.7	0.000	0
10	11.35	11.35	33.914	25.470	212.2	0.021	10
20	10.87	10.87	33.919	25.958	204.2	0.047	20
30	10.75	10.75	32.911	25.973	202.9	0.067	30
40	10.34	10.34	33.914	26.047	196.1	0.083	40
50	9.85	9.84	33.913	26.130	188.5	0.102	50
75	9.22	9.21	33.962	26.272	175.4	0.147	76
100	8.91	8.90	33.995	26.347	168.7	0.190	101
125	8.71	8.70	34.038	26.413	162.9	0.232	126
150	8.60	8.58	34.062	26.449	160.0	0.272	151
175	8.45	8.43	34.099	26.501	155.4	0.312	176
200	8.26	8.24	34.132	26.556	150.4	0.350	202
225	8.20	8.18	34.137	26.570	149.8	0.387	227
250	7.94	7.91	34.152	26.621	145.3	0.424	252
275	7.77	7.74	34.162	26.654	142.5	0.460	277
291	7.70	7.67	34.171	26.671	141.1	0.483	293

STATION 67 60		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
36 27.1 N	122 46.5 W	02/06/81	G627 GMT	2059 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
310 19 KT			1015.5 MB	13.5 C	12.4 C		
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	12.74	12.74	33.712	25.447	252.2	0.000	0
10	12.74	12.74	33.708	25.444	252.8	0.025	10
20	11.58	11.58	33.788	25.727	226.1	0.049	20
30	10.85	10.85	33.755	25.834	216.2	0.071	30
40	10.45	10.45	33.769	25.915	208.7	0.093	40
50	10.41	10.40	33.787	25.936	206.9	0.113	50
75	9.40	9.39	33.804	26.119	189.9	0.163	76
100	8.93	8.92	33.913	26.280	175.1	0.209	101
125	8.45	8.44	33.962	26.393	164.7	0.251	126
150	8.30	8.28	34.071	26.470	157.8	0.291	151
175	8.04	8.02	34.054	26.528	152.8	0.330	176
200	7.81	7.79	34.072	26.576	148.6	0.368	202
225	7.51	7.49	34.074	26.621	144.6	0.404	227
250	7.43	7.41	34.130	26.677	139.7	0.440	252
275	7.15	7.12	34.137	26.722	135.7	0.474	277
300	6.95	6.92	34.165	26.772	131.2	0.508	302
350	6.59	6.56	34.186	26.837	125.6	0.572	353
400	6.28	6.24	34.214	26.900	120.1	0.633	403
450	5.97	5.93	34.240	26.961	114.8	0.692	454
500	5.66	5.62	34.261	27.016	109.9	0.748	504
521	5.58	5.54	34.281	27.042	107.7	0.771	526

STATION 67 70		CALCOFI CRUISE R105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
36 07.4 N	123 28.5 W	02/06/81	1520 GMT	3541 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320 19 KT	320 7 3 1		1017.2 MB	14.5 C	13.5 C	1/R CI	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	13.87	13.87	33.397	24.976	297.0	0.000	0
10	13.85	13.85	33.410	24.990	295.9	0.030	10
20	13.51	13.51	33.519	25.145	281.6	0.059	20
30	13.01	13.01	33.566	25.281	268.8	0.086	30
40	11.97	11.96	33.698	25.585	240.1	0.111	40
50	10.46	10.45	33.693	25.854	214.7	0.134	50
75	9.44	9.43	33.749	26.070	194.6	0.185	76
100	8.16	8.15	33.904	26.236	179.3	0.232	101
125	8.76	8.75	33.994	26.370	166.9	0.275	126
150	8.40	8.38	34.036	26.459	158.9	0.316	151
175	8.12	8.10	34.051	26.513	154.2	0.355	176
200	7.98	7.96	34.089	26.564	149.7	0.393	202
225	7.43	7.41	34.055	26.618	144.9	0.430	227
250	7.03	7.01	34.052	26.671	140.0	0.466	252
275	6.87	6.84	34.060	26.699	137.6	0.500	277
300	6.77	6.74	34.078	26.728	135.3	0.535	302
350	6.36	6.33	34.129	26.822	126.8	0.600	353
400	6.00	5.97	34.148	26.884	121.4	0.662	403
450	5.64	5.60	34.181	26.955	115.0	0.721	454
500	5.21	5.17	3				



STATION 67 80		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
35 47.2 N	124 11.7 W	02/06/81	2224 GMT	3948 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
310 17 KT	330 3 4 0		1017.8 MB	15.9 C	14.6 C		
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.72	14.72	32.981	24.477	344.6	0.000	0
10	14.60	14.60	32.977	24.499	342.7	0.034	10
20	14.52	14.52	33.031	24.558	337.4	0.068	20
30	14.31	14.31	33.320	24.826	312.2	0.101	30
40	13.86	13.85	33.335	24.931	302.4	0.132	40
50	12.78	12.77	33.192	25.037	292.5	0.161	50
75	11.18	11.17	33.231	25.368	261.5	0.231	76
100	10.29	10.28	33.481	25.719	228.6	0.292	101
125	9.62	9.61	33.633	25.950	207.0	0.346	126
150	8.98	8.96	33.786	26.173	186.2	0.395	151
175	8.35	8.33	33.895	26.311	173.6	0.440	176
200	8.23	8.21	33.950	26.418	163.7	0.483	202
225	7.73	7.71	33.967	26.506	155.6	0.522	227
250	7.80	7.78	34.069	26.576	149.4	0.561	252
275	7.36	7.33	34.056	26.629	144.6	0.597	277
300	7.52	7.49	34.144	26.676	140.7	0.633	302
350	7.00	6.97	34.170	26.770	132.3	0.701	353
400	6.35	6.31	34.156	26.846	125.3	0.766	403
450	5.90	5.86	34.156	26.903	120.2	0.827	454
500	5.67	5.63	34.187	26.957	115.5	0.886	504
532	5.39	5.35	34.206	27.005	111.0	0.922	537

STATION 70 80		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
35 12.5 N	123 45.4 W	31/05/81	1303 GMT	4069 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 30 KT	340 12 4 1		1016.4 MB	13.7 C	12.2 C	5/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.18	14.18	32.935	24.555	337.1	0.000	0
10	14.18	14.18	32.942	24.561	336.9	0.034	10
20	14.18	14.18	32.945	24.563	336.9	0.067	20
30	13.82	13.82	33.189	24.826	312.1	0.100	30
40	13.76	13.75	33.241	24.879	307.4	0.131	40
50	13.02	13.01	33.122	24.936	302.2	0.161	50
75	11.86	11.85	33.061	25.112	286.0	0.235	76
100	11.39	11.38	33.201	25.307	267.9	0.304	101
125	10.87	10.85	33.398	25.534	244.9	0.368	126
150	10.43	10.41	33.689	25.858	216.5	0.426	151
175	9.38	9.36	33.716	26.055	198.0	0.478	176
200	8.95	8.93	33.853	26.231	181.7	0.525	202
225	8.61	8.59	33.970	26.376	168.3	0.569	227
250	8.14	8.11	34.031	26.496	157.2	0.610	252
275	7.82	7.79	34.054	26.562	151.3	0.648	277
300	7.79	7.76	34.123	26.620	146.2	0.685	302
350	7.12	7.09	34.157	26.743	134.9	0.756	353
400	6.61	6.57	34.182	26.832	126.9	0.821	403
450	6.15	6.11	34.185	26.895	121.2	0.883	454
500	5.83	5.79	34.238	26.977	113.8	0.942	504
526	5.63	5.59	34.243	27.006	111.2	0.971	531

STATION 70 90		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
34 53.2 N	124 28.6 W	31/05/81	0642 GMT	4322 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320 30 KT			1019.0 MB	15.1 C	14.0 C		
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.63	14.63	33.086	24.577	335.1	0.000	0
10	14.62	14.62	33.087	24.580	335.1	0.034	10
20	14.66	14.66	33.113	24.592	334.2	0.067	20
30	14.76	14.76	33.383	24.779	316.8	0.100	30
40	14.54	14.53	33.371	24.817	313.3	0.131	40
50	14.21	14.20	33.370	24.886	307.1	0.162	50
75	12.98	12.97	33.299	25.082	289.0	0.237	76
100	11.56	11.55	33.300	25.353	263.6	0.306	101
125	10.40	10.39	33.486	25.705	230.5	0.367	126
150	9.49	9.47	33.681	26.010	201.9	0.421	151
175	9.15	9.13	33.780	26.142	189.7	0.470	176
200	8.81	8.79	33.914	26.301	175.0	0.516	202
225	8.45	8.43	33.983	26.411	164.9	0.558	227
250	8.19	8.16	34.019	26.479	158.8	0.599	252
275	7.82	7.79	34.035	26.547	152.7	0.638	277
300	7.46	7.43	34.064	26.621	145.8	0.675	302
350	6.90	6.87	34.097	26.726	136.4	0.746	353
400	6.37	6.33	34.109	26.806	129.1	0.812	403
450	6.00	5.96	34.146	26.883	122.2	0.875	454
500	5.58	5.54	34.177	26.959	115.1	0.934	504
530	5.48	5.44	34.219	27.005	111.1	0.968	535

STATION 70 100		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
34 33.1 N	125 11.0 W	31/05/81	0003 GMT	4500 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
340 27 KT	360 8 5 1		1019.5 MB	16.0 C	14.0 C	1/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.54	15.54	33.362	24.592	333.6	0.000	0
10	15.54	15.54	33.358	24.589	334.2	0.033	10
20	15.26	15.26	33.299	24.605	333.0	0.067	20
30	15.21	15.21	33.301	24.618	332.0	0.100	30
40	14.08	14.07	33.112	24.714	323.2	0.133	40
50	13.94	13.93	33.131	24.758	319.3	0.165	50
75	13.53	13.52	33.176	24.877	308.6	0.243	76
100	12.39	12.38	33.280	25.182	280.0	0.317	101
125	10.51	10.50	33.494	25.692	231.8	0.381	126
150	9.72	9.70	33.648	25.946	208.0	0.436	151
175	9.01	8.99	33.756	26.146	189.4	0.486	176
200	8.75	8.73	33.879	26.283	176.7	0.531	202
225	8.37	8.35	33.949	26.397	166.2	0.574	227
250	7.96	7.93	34.016	26.511	155.7	0.614	252
275	7.66	7.63	34.036	26.571	150.3	0.653	277
300	7.38	7.35	34.049	26.621	145.8	0.690	302
350	6.86	6.83	34.081	26.719	137.0	0.760	353
400	6.46	6.42	34.118	26.801	129.6	0.827	403
450	6.04	6.00	34.147	26.879	122.6	0.890	454
500	5.57	5.53	34.161	26.948	116.2	0.950	504
533	5.37	5.33	34.180	26.987	112.7	0.988	538

STATION 72 74		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
35 03.1 N	123 03.0 W	29/05/81	2307 GMT	M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	13.61	13.61	33.006	24.727	320.7	0.000	0
10	13.56	13.56	33.008	24.739	319.9	0.032	10
20	13.42	13.42	33.014	24.772	317.0	0.064	20
30	13.46	13.46	33.064	24.803	314.4	0.095	30
40	14.18	14.17	33.348	24.875	307.8	0.127	40
50	13.75	13.74	33.348	24.964	299.6	0.157	50
75	11.79	11.78	33.163	25.204	277.2	0.229	76
100	11.24	11.23	33.321	25.428	256.4	0.296	101
125	10.36	10.35	33.519	25.737	227.4	0.356	126
150	9.40	9.38	33.719	26.054	197.6	0.409	151
175	9.01	8.99	33.832	26.205	183.7	0.457	176
200	8.64	8.62	33.907	26.322	172.9	0.502	202
225	8.27	8.25	33.977	26.434	162.7	0.544	227
250	7.94	7.91	34.024	26.520	154.8	0.583	252
275	7.65	7.62	34.049	26.582	149.2	0.621	277
300	7.42	7.39	34.079	26.639	144.1	0.658	302
350	6.87	6.84	34.105	26.736	135.4	0.728	353
400	6.43	6.39	34.106	26.796	130.1	0.794	403
450	6.04	6.00	34.149	26.880	122.5	0.857	454
500	5.88	5.84	34.233	26.967	114.8	0.917	504
550	5.51	5.46	34.260	27.034	108.7	0.972	555
600	5.31	5.26	34.298	27.088	103.9	1.026	605
700	4.79	4.73	34.342	27.184	95.4	1.125	706
800	4.38	4.32	34.407	27.281	86.5	1.216	808
900	4.03	3.96	34.431	27.337	81.6	1.300	909
990	3.78	3.71	34.463	27.389	77.0	1.372	1000

STATION 73 50		CALCOFI CRUISE 8105					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
35 38.5 N	121 15.3 W	28/05/81	2207 GMT	37 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
290 16 KT	290 2 4 2		1015.0 MB	12.7 C	12.0 C	8/8 ST	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	11.66	11.66	33.843	25.755	223.0	0.000	0
10	11.47	11.47	33.898	25.833	215.8	0.022	10
20	10.74	10.74	33.912	25.975	202.5	0.043	20
30	10.59	10.59	33.918	26.007	199.8	0.063	30
40	10.53	10.53	33.923	26.021	198.6	0.083	40



STATION 73 60		RV NEW HORIZON						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
35 18.6 N	121 57.9 W	29/05/81	0425 GMT	2174 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320	24 KT	320	4	1015.5 MB	14.5 C	13.2 C		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	13.94	13.94	33.289	24.878	306.3	0.000	0	
10	13.94	13.94	33.284	24.875	307.0	0.031	10	
20	13.88	13.88	33.284	24.887	306.1	0.061	20	
30	13.77	13.77	33.271	24.900	305.1	0.092	30	
40	13.30	13.29	33.298	25.016	294.3	0.122	40	
50	11.00	10.99	33.228	25.397	258.1	0.149	50	
75	10.71	10.70	33.311	25.513	247.6	0.213	76	
100	10.58	10.57	33.608	25.768	224.0	0.272	101	
125	9.65	9.64	33.693	25.992	203.0	0.325	126	
150	8.93	8.91	33.805	26.196	184.0	0.373	151	
175	8.77	8.75	33.931	26.320	172.7	0.418	176	
200	8.66	8.64	34.041	26.424	163.3	0.460	202	
225	8.03	8.01	34.045	26.523	154.1	0.500	227	
250	7.86	7.84	34.065	26.564	150.6	0.538	252	
275	7.84	7.81	34.137	26.624	145.4	0.575	277	
300	7.60	7.57	34.150	26.669	141.4	0.611	302	
350	6.87	6.84	34.129	26.755	133.6	0.679	353	
400	6.56	6.52	34.170	26.829	127.1	0.745	403	
450	5.92	5.88	34.180	26.920	118.6	0.806	454	
500	5.78	5.74	34.220	26.969	114.5	0.864	504	
533	5.69	5.64	34.278	27.026	109.4	0.901	53R	

CALCOFI CRUISE 8105		STATION 73 70						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
34 58.5 N	122 39.8 W	29/05/81	1242 GMT	4052 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320	23 KT	320	8 4 1	1016.0 MB	13.1 C	12.1 C	3/8 SC	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	13.99	13.99	33.282	24.862	307.8	0.000	0	
10	14.00	14.00	33.281	24.860	308.4	0.031	10	
20	14.00	14.00	33.281	24.860	308.7	0.062	20	
30	13.96	13.96	33.279	24.867	308.3	0.093	30	
40	13.14	13.13	33.257	25.017	294.3	0.123	40	
50	12.70	12.69	33.337	25.166	280.3	0.151	50	
75	12.53	12.52	33.505	25.329	265.4	0.220	76	
100	11.90	11.89	33.630	25.547	245.3	0.283	101	
125	11.09	11.07	33.653	25.714	229.9	0.343	126	
150	9.72	9.70	33.792	26.059	197.3	0.396	151	
175	9.16	9.14	33.891	26.228	181.7	0.444	176	
200	8.48	8.46	33.947	26.378	167.6	0.487	202	
225	8.26	8.24	34.004	26.456	160.6	0.528	227	
250	7.95	7.92	34.041	26.532	153.7	0.568	252	
275	7.66	7.63	34.080	26.605	147.0	0.605	277	
300	7.18	7.15	34.052	26.651	142.8	0.641	302	
350	6.87	6.84	34.101	26.733	135.6	0.711	353	
400	6.58	6.54	34.174	26.830	127.0	0.777	403	
450	6.38	6.34	34.218	26.891	121.8	0.839	454	
500	5.87	5.83	34.225	26.962	115.3	0.898	504	
524	5.60	5.56	34.211	26.984	113.2	0.926	529	

STATION 73 80		RV NEW HORIZON						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
34 38.4 N	123 22.0 W	30/05/81	0327 GMT	4155 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320	22 KT	320	5 4 2	1016.8 MB	15.5 C	14.7 C	9/8 SC	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	15.83	15.83	33.471	24.611	331.8	0.000	0	
10	15.84	15.84	33.476	24.613	332.0	0.033	10	
20	15.82	15.82	33.471	24.614	332.2	0.066	20	
30	15.72	15.72	33.449	24.620	332.0	0.100	30	
40	14.25	14.24	33.346	24.859	309.4	0.132	40	
50	13.82	13.81	33.351	24.952	300.7	0.162	50	
75	12.87	12.86	33.354	25.146	282.9	0.235	76	
100	11.08	11.07	33.403	25.520	247.6	0.301	101	
125	10.03	10.02	33.584	25.844	217.2	0.360	126	
150	9.26	9.24	33.728	26.083	194.8	0.411	151	
175	8.85	8.83	33.842	26.238	180.5	0.458	176	
200	8.35	8.33	33.928	26.383	167.1	0.501	202	
225	8.33	8.31	34.016	26.455	160.7	0.542	227	
250	7.94	7.91	34.034	26.528	154.1	0.582	252	
275	7.62	7.59	34.049	26.586	148.8	0.620	277	
300	7.34	7.31	34.062	26.637	144.3	0.656	302	
350	6.75	6.72	34.085	26.736	135.2	0.726	353	
400	6.40	6.36	34.130	26.819	127.0	0.792	403	
450	5.92	5.88	34.136	26.885	121.9	0.854	454	
500	5.60	5.56	34.175	26.956	115.5	0.914	504	
527	5.31	5.27	34.179	26.993	111.9	0.944	532	

CALCOFI CRUISE 8105		STATION 73 90						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
34 18.6 N	124 03.8 W	30/05/81	1014 GMT	3160 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330	22 KT	320	7 5	1018.1 MB	16.0 C	15.0 C	8/8	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	15.29	15.29	33.309	24.606	332.3	0.000	0	
10	15.29	15.29	33.313	24.609	332.2	0.033	10	
20	15.18	15.18	33.347	24.660	327.8	0.066	20	
30	14.33	14.33	33.286	24.795	315.1	0.098	30	
40	14.17	14.16	33.287	24.830	312.1	0.130	40	
50	14.01	14.00	33.318	24.887	306.9	0.161	50	
75	12.75	12.74	33.230	25.073	289.8	0.235	76	
100	11.88	11.87	33.355	25.337	265.2	0.305	101	
125	10.04	10.03	33.583	25.842	217.4	0.365	126	
150	9.15	9.13	33.753	26.121	191.2	0.416	151	
175	9.03	9.01	33.918	26.269	177.6	0.462	176	
200	8.41	8.39	33.957	26.396	165.8	0.505	202	
225	8.05	8.03	34.004	26.488	157.5	0.545	227	
250	7.73	7.71	34.030	26.555	151.3	0.584	252	
275	7.50	7.47	34.042	26.598	147.6	0.621	277	
300	7.16	7.13	34.062	26.662	141.8	0.658	302	
350	6.38	6.35	34.063	26.768	132.0	0.726	353	
400	6.09	6.05	34.131	26.859	123.8	0.790	403	
450	5.75	5.71	34.166	26.929	117.5	0.850	454	
500	5.46	5.42	34.198	26.990	112.1	0.908	504	
522	5.38	5.34	34.222	27.019	109.6	0.932	527	

STATION 73 100		RV NEW HORIZON						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
33 58.4 N	124 45.1 W	30/05/81	1630 GMT	4547 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
350	28 KT	350	10 4 2	1020.6 MB	14.8 C	13.5 C	8/8 ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	15.44	15.44	33.295	24.562	336.5	0.000	0	
10	15.46	15.46	33.299	24.561	336.8	0.034	10	
20	14.63	14.63	33.176	24.647	329.0	0.067	20	
30	14.37	14.37	33.170	24.698	324.5	0.100	30	
40	13.94	13.93	33.118	24.747	319.9	0.132	40	
50	13.76	13.75	33.134	24.797	315.5	0.164	50	
75	13.36	13.35	33.189	24.921	304.3	0.241	76	
100	12.47	12.46	33.290	25.175	280.8	0.314	101	
125	9.95	9.94	33.465	25.765	224.7	0.377	126	
150	9.38	9.36	33.677	26.024	200.4	0.431	151	
175	8.80	8.78	33.823	26.231	181.2	0.478	176	
200	8.20	8.18	33.878	26.366	168.6	0.522	202	
225	7.98	7.96	33.943	26.450	161.0	0.563	227	
250	7.70	7.68	33.983	26.523	154.4	0.603	252	
275	7.30	7.27	33.996	26.590	148.2	0.640	277	
300	7.10	7.07	34.031	26.646	143.2	0.677	302	
350	6.17	6.14	34.007	26.750	133.4	0.746	353	
400	5.88	5.85	34.058	26.828	126.5	0.811	403	
450	5.78	5.74	34.141	26.906	119.7	0.873	454	
500	5.61	5.57	34.196	26.971	114.1	0.931	504	
523	5.49	5.45	34.210	26.997	111.9	0.957	528	

CALCOFI CRUISE 8105		STATION 77 70						
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM				
34 23.2 N	122 14.8 W	27/05/81	1801 GMT	2145 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
340	19 KT	320	6 5 2	1015.7 MB	14.0 C	13.1 C	8/8 ST	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	
0	13.49	13.49	33.434	25.082	286.9	0.000	0	
10	13.26	13.26	33.545	25.215	274.6	0.028	10	
20	13.18	13.18	33.604	25.277	269.0	0.055	20	
30	12.34	12.34	33.563	25.410	256.6	0.082	30	
40	11.54	11.53	33.600	25.589	239.7	0.106	40	
50	10.76	10.75	33.569	25.705	228.8	0.130	50	
75	9.92	9.91	33.696	25.949	206.2	0.184	76	
100	9.41	9.40	33.765	26.087	193.4	0.234	101	
125	9.03	9.02	33.821	26.192	183.9	0.281	126	
150	8.73	8.71	33.879	26.285	175.5	0.326		

STATION 77 80		RV NEW HORIZON							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
34 03.2 N	122 56.6 W	27/05/81		1106 GMT	M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	15.47	15.47	33.413	24.646	328.4	0.000	0		
10	15.48	15.48	33.425	24.654	328.0	0.033	10		
20	14.91	14.91	33.298	24.681	325.8	0.066	20		
30	14.26	14.26	33.328	24.843	310.6	0.097	30		
40	14.18	14.17	33.321	24.854	309.8	0.128	40		
50	14.08	14.07	33.318	24.873	308.3	0.159	50		
75	13.09	13.08	33.283	25.048	292.3	0.234	76		
100	12.22	12.21	33.312	25.240	274.5	0.305	101		
125	11.60	11.58	33.440	25.455	254.5	0.371	126		
150	10.36	10.34	33.724	25.898	212.8	0.430	151		
175	10.04	10.02	33.858	26.057	198.1	0.481	176		
200	9.68	9.66	33.924	26.169	187.9	0.529	202		
225	9.36	9.34	34.027	26.303	175.6	0.575	227		
250	8.78	8.75	34.006	26.379	168.6	0.618	252		
275	8.42	8.39	34.074	26.488	158.6	0.659	277		
300	7.95	7.92	34.070	26.555	152.4	0.698	302		
350	7.49	7.46	34.135	26.674	141.8	0.771	353		
400	6.77	6.73	34.136	26.774	132.4	0.840	403		
450	6.46	6.42	34.172	26.844	126.3	0.904	454		
500	5.91	5.87	34.159	26.905	120.7	0.966	504		

CALCOFI CRUISE 8105		STATION 77 90							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
33 43.3 N	123 38.0 W	27/05/81		0512 GMT	4333 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
320	18 KT			1017.2 MB	15.8 C	13.1 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	16.24	16.24	33.493	24.535	339.0	0.000	0		
10	16.25	16.25	33.494	24.534	339.5	0.034	10		
20	16.12	16.12	33.491	24.561	337.2	0.068	20		
30	16.10	16.10	33.489	24.565	337.2	0.101	30		
40	16.09	16.08	33.489	24.567	337.2	0.135	40		
50	15.90	15.89	33.475	24.600	334.4	0.169	50		
75	13.86	13.85	33.265	24.878	308.5	0.249	76		
100	12.11	12.10	33.449	25.367	262.5	0.321	101		
125	10.85	10.83	33.549	25.675	233.4	0.382	126		
150	9.75	9.73	33.668	25.957	207.0	0.438	151		
175	9.00	8.98	33.808	26.188	185.3	0.487	176		
200	8.61	8.59	33.950	26.360	169.3	0.531	202		
225	8.30	8.28	34.007	26.453	160.9	0.572	227		
250	7.97	7.94	34.035	26.524	154.4	0.612	252		
275	7.59	7.56	34.041	26.584	149.0	0.650	277		
300	7.15	7.12	34.036	26.643	143.6	0.686	302		
350	6.62	6.59	34.050	26.726	136.1	0.756	353		
400	6.21	6.17	34.077	26.801	129.4	0.822	403		
450	5.84	5.80	34.116	26.879	122.3	0.885	454		
500	5.52	5.48	34.152	26.947	116.2	0.945	504		
520	5.38	5.34	34.163	26.972	113.9	0.968	525		

STATION 77 100		RV NEW HORIZON							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
33 23.5 N	124 19.5 W	26/05/81		2304 GMT	4484 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
350	12 KT	360 2 3 1		1015.1 MB	15.8 C	13.9 C	1/8 CU		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	16.15	16.15	33.339	24.437	348.4	0.000	0		
10	15.92	15.92	33.332	24.484	344.2	0.035	10		
20	15.74	15.74	33.332	24.525	340.7	0.069	20		
30	15.71	15.71	33.334	24.533	340.2	0.103	30		
40	15.49	15.48	33.329	24.579	336.1	0.137	40		
50	15.19	15.18	33.330	24.646	330.0	0.170	50		
75	13.39	13.38	33.289	24.992	297.6	0.248	76		
100	11.80	11.79	33.327	25.330	265.8	0.319	101		
125	10.56	10.55	33.468	25.663	234.5	0.381	126		
150	9.49	9.47	33.674	26.004	202.4	0.436	151		
175	8.86	8.84	33.788	26.194	184.7	0.484	176		
200	8.48	8.46	33.911	26.350	170.3	0.529	202		
225	8.25	8.23	33.996	26.452	161.0	0.570	227		
250	7.85	7.83	34.029	26.537	153.1	0.609	252		
275	7.49	7.46	34.051	26.607	146.8	0.647	277		
300	7.18	7.15	34.069	26.665	141.5	0.683	302		
350	6.77	6.74	34.093	26.740	134.9	0.752	353		
400	6.23	6.19	34.123	26.835	126.2	0.817	403		
450	6.01	5.97	34.180	26.908	119.8	0.879	454		
500	5.58	5.54	34.194	26.973	113.9	0.937	504		
522	5.57	5.53	34.221	26.996	112.0	0.962	527		

CALCOFI CRUISE 8105		STATION 80 51							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
34 27.0 N	120 31.2 W	25/05/81		0516 GMT	71 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
290	30 KT	300 2 3 0		1011.0 MB	13.6 C	13.0 C	0/R		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	14.13	14.13	33.642	25.111	284.2	0.000	0		
10	14.07	14.07	33.647	25.128	282.9	0.028	10		
20	12.12	12.12	33.678	25.541	243.9	0.055	20		
30	11.98	11.98	33.677	25.566	241.6	0.079	30		
40	11.81	11.80	33.681	25.602	238.5	0.103	40		
50	11.28	11.27	33.697	25.712	228.3	0.126	50		
63	11.12	11.11	33.720	25.759	224.1	0.156	63		

STATION 80 60		RV NEW HORIZON							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
34 09.3 N	121 08.8 W	25/05/81		1230 GMT	2167 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
340	14 KT	310 5 4 4		1014.2 MB	13.2 C	13.1 C	8/8 ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	13.23	13.23	33.698	25.339	262.5	0.000	0		
10	13.22	13.22	33.699	25.342	262.5	0.026	10		
20	13.22	13.22	33.697	25.341	262.9	0.053	20		
30	13.22	13.22	33.697	25.341	263.2	0.079	30		
40	13.07	13.06	33.675	25.354	262.1	0.105	40		
50	12.11	12.10	33.622	25.500	248.5	0.131	50		
75	10.99	10.98	33.710	25.775	222.8	0.190	76		
100	9.71	9.70	33.855	26.109	191.5	0.241	101		
125	9.15	9.14	33.918	26.249	178.5	0.288	126		
150	8.87	8.85	34.029	26.381	166.5	0.331	151		
175	8.31	8.29	34.029	26.468	158.6	0.371	176		
200	7.98	7.96	34.075	26.553	150.8	0.410	202		
225	7.72	7.70	34.111	26.620	144.8	0.447	227		
250	7.51	7.49	34.122	26.659	141.4	0.483	252		
275	7.16	7.13	34.152	26.732	134.7	0.517	277		
300	7.02	6.99	34.171	26.767	131.8	0.551	302		
350	6.49	6.46	34.200	26.862	123.2	0.614	353		
400	6.30	6.26	34.263	26.937	116.7	0.674	403		
450	6.03	5.99	34.286	26.990	112.1	0.731	454		
500	5.78	5.74	34.328	27.055	106.4	0.786	504		
550	5.58	5.53	34.339	27.088	103.7	0.839	555		

CALCOFI CRUISE 8105		STATION 80 70							
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
33 48.9 N	121 50.8 W	25/05/81		2010 GMT	M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
310	16 KT	310 2 4 2		1015.1 MB	14.5 C	15.0 C	8/8 AS		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	13.95	13.95	33.513	25.049	290.1	0.000	0		
10	13.89	13.89	33.517	25.065	288.9	0.029	10		
20	13.86	13.86	33.516	25.071	288.6	0.058	20		
30	13.85	13.85	33.519	25.075	288.5	0.087	30		
40	13.78	13.77	33.513	25.085	287.8	0.115	40		
50	12.51	12.50	33.606	25.411	257.0	0.143	50		

STATION 80 80 RV NEW HORIZON

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 28.5 N	122 31.7 W	26/05/81	0308 GMT	3959 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	17 KT	2	5	1015.1 MB	15.0 C	15.0 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	16.02	16.02	33.529	24.613	331.6	0.000	0
10	16.02	16.02	33.534	24.617	331.6	0.033	10
20	15.94	15.94	33.531	24.633	330.4	0.066	20
30	15.94	15.94	33.530	24.632	330.7	0.099	30
40	15.92	15.91	33.531	24.638	330.5	0.132	40
50	15.08	15.07	33.510	24.808	314.6	0.165	50
75	13.31	13.30	33.540	25.203	277.6	0.239	76
100	10.84	10.83	33.516	25.651	235.2	0.303	101
125	9.82	9.81	33.637	25.920	209.9	0.358	126
150	9.22	9.20	33.758	26.113	191.9	0.409	151
175	8.75	8.73	33.896	26.296	175.0	0.454	176
200	8.23	8.21	33.952	26.420	163.5	0.497	202
225	7.89	7.87	33.998	26.507	155.6	0.537	227
250	7.60	7.58	34.021	26.567	150.2	0.575	252
275	7.22	7.19	34.039	26.619	145.4	0.612	277
300	6.88	6.85	34.030	26.675	140.3	0.648	302
350	6.40	6.37	34.083	26.781	130.7	0.715	353
400	6.17	6.13	34.108	26.831	126.5	0.780	403
450	5.82	5.78	34.147	26.906	119.8	0.841	454
500	5.44	5.40	34.170	26.971	113.9	0.900	504
522	5.30	5.26	34.181	26.996	111.6	0.924	527

CALCOFI CRUISE 8105 STATION 80 90

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 09.0 N	123 13.3 W	26/05/81	1015 GMT	4218 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	13 KT	3	4	1015.5 MB	15.2 C	15.3 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	16.09	16.09	33.475	24.555	337.1	0.000	0
10	16.09	16.09	33.474	24.555	337.5	0.034	10
20	16.09	16.09	33.478	24.558	337.5	0.067	20
30	16.08	16.08	33.478	24.561	337.6	0.101	30
40	16.06	16.05	33.485	24.571	336.9	0.135	40
50	16.07	16.06	33.508	24.587	335.7	0.169	50
75	15.37	15.36	33.403	24.663	329.2	0.252	76
100	14.43	14.42	33.461	24.912	306.2	0.331	101
125	12.64	12.62	33.570	25.360	263.9	0.402	126
150	10.82	10.80	33.648	25.758	226.1	0.464	151
175	9.39	9.37	33.703	26.043	199.2	0.517	176
200	8.82	8.80	33.842	26.243	180.5	0.564	202
225	8.54	8.52	33.934	26.359	169.9	0.608	227
250	8.11	8.08	33.993	26.470	159.6	0.649	252
275	7.74	7.71	34.024	26.550	152.3	0.688	277
300	7.42	7.39	34.040	26.608	147.0	0.726	302
350	6.90	6.87	34.059	26.696	139.2	0.797	353
400	6.21	6.17	34.078	26.802	129.3	0.864	403
450	5.92	5.88	34.116	26.869	123.4	0.927	454
500	5.56	5.52	34.159	26.948	116.2	0.987	504
530	5.45	5.41	34.178	26.976	113.7	1.022	535

STATION 80 100 RV NEW HORIZON

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
32 49.1 N	123 54.5 W	26/05/81	1625 GMT	4451 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
350	12 KT	320 2 3 2		1016.2 MB	17.6 C	15.6 C	8/8 SC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	16.38	16.38	33.496	24.505	341.9	0.000	0
10	16.36	16.36	33.512	24.522	340.6	0.034	10
20	16.35	16.35	33.512	24.525	340.7	0.068	20
30	16.31	16.31	33.518	24.539	339.6	0.102	30
40	16.30	16.29	33.519	24.542	339.6	0.136	40
50	16.22	16.21	33.511	24.545	338.7	0.170	50
75	15.82	15.81	33.529	24.660	329.5	0.254	76
100	13.36	13.35	33.449	25.123	285.9	0.331	101
125	11.00	10.98	33.423	25.551	245.3	0.397	126
150	9.72	9.70	33.638	25.938	208.7	0.454	151
175	9.10	9.08	33.776	26.147	189.3	0.503	176
200	8.60	8.58	33.917	26.336	171.6	0.549	202
225	8.19	8.17	33.987	26.454	160.8	0.590	227
250	7.69	7.67	34.003	26.540	152.8	0.629	252
275	7.43	7.40	34.037	26.604	147.0	0.667	277
300	7.21	7.18	34.059	26.653	142.7	0.703	302
350	6.72	6.69	34.102	26.754	133.6	0.772	353
400	6.31	6.27	34.123	26.825	127.3	0.837	403
450	5.87	5.83	34.176	26.923	118.2	0.899	454
500	5.61	5.57	34.215	26.986	112.7	0.956	504
534	5.59	5.54	34.249	27.016	110.3	0.994	539

CALCOFI CRUISE 8105 STATION 82 46

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
34 16.2 N	119 56.4 W	24/05/81	2358 GMT	528 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
260	15 KT	260 2 6 1		1011.2 MB	15.8 C	15.0 C	7/8 AS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	15.73	15.73	33.704	24.812	312.6	0.000	0
10	14.14	14.14	33.715	25.166	279.3	0.030	10
20	12.86	12.86	33.729	25.437	253.7	0.056	20
30	11.25	11.25	33.804	25.800	219.4	0.080	30
40	10.66	10.66	33.840	25.934	206.9	0.101	40
50	10.10	10.09	33.896	26.074	193.7	0.121	50
75	9.61	9.60	33.999	26.237	178.8	0.168	76
100	9.54	9.53	34.018	26.264	176.7	0.212	101
125	9.46	9.45	34.054	26.306	173.3	0.256	126
150	9.22	9.20	34.094	26.376	167.0	0.299	151
175	8.96	8.94	34.138	26.453	160.3	0.339	176
200	8.78	8.76	34.148	26.489	157.2	0.379	202
225	8.62	8.60	34.161	26.525	154.3	0.418	227
250	8.53	8.50	34.169	26.545	152.8	0.456	252
275	8.24	8.21	34.180	26.598	148.1	0.494	277
300	8.03	8.00	34.185	26.634	145.0	0.531	302
350	7.41	7.38	34.205	26.740	135.4	0.601	353
400	6.96	6.92	34.225	26.819	128.4	0.667	403
450	6.69	6.65	34.238	26.886	124.5	0.730	454
500	6.46	6.41	34.250	26.907	121.2	0.791	504

STATION 83 42 RV NEW HORIZON

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
34 10.7 N	119 30.5 W	24/05/81	1213 GMT	121 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
150	04 KT	280 2 4 2		1013.1 MB	16.8 C	15.0 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	15.97	15.97	33.627	24.699	323.4	0.000	0
10	15.04	15.04	33.627	24.906	304.0	0.031	10
20	14.82	14.82	33.626	24.953	299.9	0.062	20
30	14.19	14.19	33.653	25.108	285.4	0.091	30
40	12.73	12.72	33.611	25.372	260.5	0.118	40
50	10.97	10.96	33.686	25.759	223.7	0.142	50
75	9.84	9.83	33.936	26.150	187.1	0.194	76
100	9.79	9.78	33.959	26.177	185.1	0.240	101
111	9.76	9.75	33.954	26.178	185.2	0.261	112

CALCOFI CRUISE 8105 STATION 83 55

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 44.7 N	120 24.6 W	24/05/81	0117 GMT	1005 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	27 KT	330 6 7 1		1012.8 MB	13.7 C	13.0 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	13.53	13.53	33.664	25.252	270.8	0.000	0
10	13.53	13.53	33.671	25.258	270.5	0.027	10
20	12.81	12.81	33.656	25.390	258.2	0.053	20
30	11.83	11.83	33.709	25.620	236.6	0.078	30
40	11.04	11.04	33.695	25.753	224.1	0.101	40
50	10.32	10.31	33.713	25.894	210.9	0.123	50
75	9.87	9.86	33.813	26.049	196.7	0.174	76
100	9.61	9.60	33.955	26.203	182.5	0.221	101
125	9.33	9.32	34.025	26.304	173.4	0.266	126
150	9.12	9.10	34.053	26.360	168.5	0.309	151
175	8.73	8.71	34.112	26.469	158.7	0.350	176
200	8.48	8.46	34.154	26.540	152.3	0.388	202
225	8.20	8.18	34.182	26.605	146.5	0.426	227
250	7.93	7.90	34.176	26.641	143.4	0.462	252
275	7.49	7.46	34.164	26.696	138.4	0.497	277
300	7.55	7.52	34.223	26.734	135.3	0.531	302
350	7.22	7.19	34.240	26.794	130.2	0.598	353
400	6.89	6.85	34.264	26.859	124.5	0.661	403
450	6.54	6.50	34.269	26.911	120.1	0.723	454
500	6.23	6.19	34.293	26.970	114.9	0.781	504
522	6.04	5.99	34.303	27.003	112.0	0.806	527



STATION 83 60		RV NEW HORIZON					CALCOFI CRUISE 8105					STATION 83 70			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	
33 34.8 N	120 45.2 W	23/05/81	2034 GMT	1433 M	33 15.2 N	121 25.8 W	23/05/81	1335 GMT	4145 M	33 30.0 N	120 45.0 W	23/05/81	1335 GMT	4145 M	
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	
330	32 KT	330 12 6 1	1015.6 MB	13.9 C	13.1 C	8/8 CU	330	32 KT	330 12 6 1	1015.6 MB	13.9 C	13.1 C	8/8 CU	330	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	13.62	13.62	33.587	25.174	278.2	0.000	0	0	13.50	13.50	33.599	25.208	275.0	0.000	0
10	13.57	13.57	33.600	25.195	276.5	0.028	10	10	13.50	13.50	33.599	25.208	275.2	0.028	10
20	13.54	13.54	33.594	25.197	276.7	0.055	20	20	13.49	13.49	33.601	25.212	275.2	0.055	20
30	13.48	13.48	33.599	25.213	275.4	0.083	30	30	13.49	13.49	33.599	25.211	275.6	0.083	30
40	13.40	13.39	33.619	25.245	272.6	0.110	40	40	13.49	13.48	33.600	25.212	275.7	0.110	40
50	12.73	12.72	33.682	25.427	255.5	0.137	50	50	13.48	13.47	33.606	25.219	275.3	0.137	50
75	10.96	10.95	33.508	25.623	237.3	0.198	75	75	12.85	12.84	33.560	25.310	267.3	0.206	75
100	9.65	9.64	33.606	25.924	209.0	0.254	100	100	11.17	11.16	33.534	25.606	239.5	0.269	100
125	9.09	9.08	33.780	26.151	187.8	0.304	125	125	9.76	9.75	33.702	25.981	204.1	0.324	125
150	8.77	8.75	33.879	26.279	176.1	0.349	150	150	8.98	8.96	33.830	26.208	182.9	0.373	150
175	8.34	8.32	33.972	26.418	163.2	0.392	175	175	8.64	8.62	33.900	26.316	173.1	0.417	175
200	7.96	7.94	34.003	26.500	155.8	0.432	200	200	8.30	8.28	33.957	26.413	164.2	0.459	200
225	7.62	7.60	34.030	26.571	149.4	0.470	225	225	7.98	7.96	33.999	26.494	156.8	0.499	225
250	7.30	7.28	34.062	26.642	142.9	0.506	250	250	7.57	7.55	34.022	26.572	149.7	0.538	250
275	7.28	7.25	34.104	26.678	140.0	0.542	275	275	7.16	7.13	34.030	26.636	143.8	0.574	275
300	6.88	6.85	34.096	26.727	135.4	0.576	300	300	6.96	6.93	34.036	26.669	141.0	0.610	300
350	6.66	6.63	34.181	26.824	126.9	0.642	350	350	6.41	6.38	34.040	26.746	134.1	0.679	350
400	6.42	6.38	34.220	26.887	121.5	0.704	400	400	5.94	5.91	34.076	26.834	126.0	0.744	400
450	6.20	6.16	34.255	26.944	116.7	0.763	450	450	5.52	5.48	34.102	26.907	119.4	0.805	450
500	5.89	5.85	34.290	27.011	110.7	0.820	500	500	5.28	5.24	34.132	26.959	114.8	0.864	500
532	5.80	5.75	34.304	27.033	108.9	0.855	532	532	5.17	5.13	34.192	27.020	109.4	0.907	532

STATION 83 80		RV NEW HORIZON					CALCOFI CRUISE 8105					STATION 83 90			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	
32 54.6 N	122 07.4 W	23/05/81	0640 GMT	4200 M	32 34.7 N	122 48.6 W	22/05/81	2356 GMT	4155 M	32 34.7 N	122 48.6 W	22/05/81	2356 GMT	4155 M	
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	
330	28 KT	330 5 6 1	1017.0 MB	14.5 C	13.5 C	1/8 CU	340	25 KT	330 4 6 1	1017.5 MB	16.1 C	14.3 C	3/8 CU	340	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	14.28	14.28	33.489	24.962	298.4	0.000	0	0	15.73	15.73	33.447	24.615	331.4	0.000	0
10	14.27	14.27	33.488	24.963	298.6	0.030	10	10	15.73	15.73	33.446	24.614	331.8	0.033	10
20	14.28	14.28	33.483	24.958	299.4	0.060	20	20	15.73	15.73	33.446	24.615	332.1	0.066	20
30	14.18	14.18	33.475	24.973	298.2	0.090	30	30	15.73	15.73	33.446	24.615	332.4	0.100	30
40	14.00	13.99	33.418	24.967	299.1	0.119	40	40	15.73	15.72	33.457	24.624	331.8	0.133	40
50	12.90	12.89	33.472	25.231	274.1	0.148	50	50	15.75	15.74	33.472	24.631	331.5	0.166	50
75	12.25	12.24	33.583	25.443	254.5	0.214	75	75	15.83	15.82	33.514	24.646	330.8	0.249	75
100	10.60	10.59	33.567	25.733	227.4	0.274	100	100	14.50	14.49	33.645	25.039	294.1	0.327	100
125	9.39	9.38	33.679	26.024	200.0	0.328	125	125	11.96	11.94	33.523	25.453	254.8	0.395	125
150	8.95	8.93	33.829	26.212	182.5	0.376	150	150	10.62	10.60	33.665	25.807	221.5	0.455	150
175	8.66	8.64	33.891	26.306	174.0	0.420	175	175	9.84	9.82	33.709	25.974	205.9	0.508	175
200	8.34	8.32	33.986	26.430	162.6	0.462	200	200	8.93	8.91	33.809	26.200	184.6	0.557	200
225	7.95	7.93	34.015	26.511	155.2	0.502	225	225	8.52	8.50	33.927	26.356	170.1	0.602	225
250	7.73	7.71	34.052	26.573	149.7	0.540	250	250	8.18	8.15	33.989	26.457	160.9	0.643	250
275	7.49	7.46	34.075	26.625	145.0	0.577	275	275	7.83	7.80	34.020	26.533	153.9	0.682	275
300	7.00	6.97	34.037	26.664	141.5	0.613	300	300	7.52	7.49	34.035	26.590	148.8	0.720	300
350	6.52	6.49	34.058	26.745	134.2	0.682	350	350	7.00	6.97	34.060	26.683	140.5	0.792	350
400	5.89	5.86	34.069	26.835	125.9	0.747	400	400	6.45	6.41	34.090	26.781	131.6	0.860	400
450	5.44	5.40	34.086	26.904	119.6	0.808	450	450	6.06	6.02	34.136	26.867	123.7	0.924	450
500	5.26	5.22	34.142	26.970	113.8	0.866	500	500	5.74	5.70	34.178	26.941	117.1	0.984	500
543	4.95	4.91	34.187	27.041	107.1	0.914	543	543	5.60	5.55	34.213	26.986	113.1	1.025	540

STATION 83 100		RV NEW HORIZON					CALCOFI CRUISE 8105					STATION 87 35			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	
32 14.6 N	123 29.5 W	22/05/81	1655 GMT	4309 M	33 49.2 N	118 37.8 W	20/05/81	0845 GMT	811 M	33 49.2 N	118 37.8 W	20/05/81	0845 GMT	811 M	
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND SPEED	
350	27 KT	330 5 4 1	1020.3 MB	16.1 C	13.2 C	4/8 CU	000	22 KT	260 7 3 1	1011.0 MB	14.8 C	10.8 C	1/8 CU	000	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	15.71	15.71	33.414	24.594	333.4	0.000	0	0	17.71	17.71	33.615	24.283	363.0	0.000	0
10	15.71	15.71	33.417	24.596	333.5	0.033	10	10	17.73	17.73	33.621	24.283	363.4	0.036	10
20	15.71	15.71	33.417	24.597	333.8	0.067	20	20	17.17	17.17	33.599	24.401	352.5	0.072	20
30	15.70	15.70	33.416	24.599	333.9	0.100	30	30	13.05	13.05	33.525	25.242	272.6	0.103	30
40	15.66	15.65	33.417	24.609	333.3	0.133	40	40	12.34	12.33	33.554	25.403	257.5	0.130	40
50	15.49	15.48	33.411	24.642	330.4	0.167	50	50	11.66	11.65	33.599	25.566	242.1	0.155	50
75	15.04	15.03	33.368	24.708	324.8	0.249	75	75	10.51	10.50	33.685	25.840	216.6	0.212	75
100	14.47	14.46	33.355	24.821	314.7	0.328	100	100	9.96	9.95	33.836	26.052	196.9	0.264	100
125	14.07	14.05	33.398	24.939	304.2	0.406	125	125	9.64	9.63	34.009	26.241	179.5	0.311	125
150	12.01	11.99	33.456	25.392	261.2	0.477	150	150	9.48	9.46	34.094	26.334	171.1	0.355	150
175	10.77	10.75	33.594	25.726	229.8	0.538	175	175	9.39	9.37	34.147	26.391	166.3	0.397	175
200	9.58	9.56	33.677												

STATION 87 40		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 39.1 N	118 59.5 W	20/05/81	1512 GMT	492 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
000 26 KT	280 8 3	1	1013.8 MB	14.8 C	12.6 C	5/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.09	17.09	33.636	24.447	347.4	0.000	0
10	17.09	17.09	33.635	24.447	347.8	0.035	10
20	12.79	12.79	33.564	25.323	264.6	0.065	20
30	12.00	12.00	33.591	25.496	248.3	0.091	30
40	11.42	11.42	33.618	25.625	236.3	0.115	40
50	11.04	11.03	33.686	25.747	225.0	0.138	50
75	10.15	10.14	33.805	25.995	201.8	0.192	76
100	9.50	9.49	33.893	26.173	185.4	0.240	101
125	9.22	9.21	34.041	26.334	170.5	0.285	126
150	9.02	9.00	34.101	26.414	163.4	0.326	151
175	8.77	8.75	34.140	26.484	157.2	0.366	176
200	8.63	8.61	34.162	26.524	153.9	0.405	202
225	8.19	8.17	34.196	26.618	145.3	0.443	227
250	7.86	7.83	34.223	26.688	138.9	0.478	252
275	7.73	7.70	34.230	26.713	136.9	0.513	277
300	7.67	7.64	34.230	26.722	136.4	0.547	302

CALCOFI CRUISE 8105		STATION 87 50					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
33 19.4 N	119 39.8 W	21/05/81	0153 GMT	78 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
320 26 KT	300 6 6	1	1014.5 MB	14.5 C	12.5 C	1/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.98	14.98	33.672	24.953	299.2	0.000	0
10	14.78	14.78	33.670	24.995	295.5	0.030	10
20	13.36	13.36	33.720	25.330	263.9	0.058	20
30	11.91	11.91	33.727	25.618	236.7	0.083	30
40	10.70	10.70	33.763	25.867	213.3	0.105	40
50	10.56	10.55	33.788	25.911	209.3	0.126	50
75	9.40	9.39	33.926	26.214	180.9	0.175	76

STATION 87 60		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
32 59.1 N	120 21.2 W	21/05/81	0920 GMT	780 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
060 28 KT	300 6 5	1	1017.7 MB	13.2 C	12.1 C	8/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.26	14.26	33.556	25.018	293.1	0.000	0
10	14.27	14.27	33.557	25.017	293.5	0.029	10
20	14.27	14.27	33.557	25.017	293.7	0.059	20
30	14.04	14.04	33.564	25.071	288.9	0.088	30
40	13.75	13.74	33.565	25.132	283.4	0.116	40
50	13.73	13.72	33.564	25.135	283.3	0.145	50
75	13.12	13.11	33.591	25.280	270.2	0.214	76
100	12.60	12.59	33.627	25.411	258.4	0.280	101
125	10.57	10.56	33.630	25.788	222.7	0.340	126
150	9.20	9.18	33.951	26.268	177.3	0.390	151
175	8.91	8.89	34.002	26.354	169.6	0.434	176
200	8.34	8.32	34.038	26.471	158.8	0.475	202
225	8.03	8.01	34.084	26.553	151.3	0.513	227
250	7.84	7.82	34.113	26.604	146.7	0.551	252
275	7.55	7.52	34.152	26.677	140.2	0.586	277
300	7.29	7.26	34.181	26.737	134.7	0.621	302
350	6.90	6.87	34.201	26.808	128.6	0.687	353
400	6.53	6.49	34.235	26.885	121.8	0.749	403
450	6.28	6.24	34.238	26.920	119.0	0.809	454
500	6.06	6.02	34.274	26.977	114.1	0.868	504
518	5.94	5.89	34.281	26.998	112.3	0.888	523

CALCOFI CRUISE 8105		STATION 87 80					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
32 19.3 N	121 42.9 W	21/05/81	2042 GMT	4103 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 23 KT	320 5 7	1	1019.5 MB	15.5 C	13.3 C	4/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.23	15.23	33.476	24.748	318.8	0.000	0
10	15.23	15.23	33.476	24.748	319.1	0.032	10
20	14.83	14.83	33.444	24.811	313.4	0.064	20
30	14.62	14.62	33.419	24.837	311.2	0.095	30
40	14.59	14.58	33.416	24.841	311.1	0.126	40
50	14.00	13.99	33.349	24.914	304.4	0.157	50
75	12.51	12.50	33.327	25.195	278.2	0.229	76
100	11.62	11.61	33.474	25.478	251.8	0.296	101
125	10.20	10.19	33.584	25.815	220.0	0.355	126
150	9.34	9.32	33.739	26.079	195.2	0.407	151
175	8.78	8.76	33.840	26.248	179.6	0.453	176
200	8.43	8.41	33.934	26.375	167.8	0.497	202
225	8.11	8.09	33.987	26.466	159.6	0.538	227
250	7.83	7.81	34.016	26.530	153.8	0.577	252
275	7.37	7.34	34.023	26.602	147.2	0.615	277
300	7.09	7.06	34.022	26.640	143.8	0.651	302
350	6.52	6.49	34.044	26.734	135.2	0.721	353
400	6.12	6.08	34.117	26.844	125.2	0.786	403
450	5.62	5.58	34.131	26.918	118.5	0.847	454
500	5.24	5.20	34.163	26.989	112.0	0.904	504
527	5.26	5.22	34.201	27.017	109.7	0.934	532

STATION 87 90		RV NEW HORIZON					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
31 58.8 N	122 22.0 W	22/05/81	0305 GMT	4243 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 22 KT	330 4 6	2	1020.0 MB	15.0 C	12.5 C	8/8 SC	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.54	15.54	33.419	24.635	329.5	0.000	0
10	15.53	15.53	33.422	24.640	329.3	0.033	10
20	15.53	15.53	33.418	24.638	329.9	0.066	20
30	15.48	15.48	33.417	24.648	329.2	0.099	30
40	15.42	15.41	33.417	24.662	328.2	0.132	40
50	15.18	15.17	33.387	24.692	325.7	0.164	50
75	14.41	14.40	33.351	24.830	313.2	0.244	76
100	13.84	13.83	33.441	25.019	295.8	0.320	101
125	12.90	12.88	33.410	25.185	280.5	0.392	126
150	11.12	11.10	33.502	25.591	242.1	0.458	151
175	9.71	9.69	33.639	25.941	209.0	0.514	176
200	9.10	9.08	33.814	26.177	186.9	0.564	202
225	8.68	8.66	33.871	26.288	176.7	0.609	227
250	8.28	8.25	33.965	26.423	164.2	0.652	252
275	8.03	8.00	33.992	26.482	158.9	0.692	277
300	7.62	7.59	34.020	26.564	151.3	0.731	302
350	6.97	6.94	34.044	26.674	141.3	0.804	353
400	6.46	6.42	34.102	26.789	130.8	0.872	403
450	6.06	6.02	34.132	26.864	124.0	0.936	454
500	5.72	5.68	34.172	26.938	117.3	0.996	504
529	5.53	5.49	34.199	26.983	113.2	1.079	534

CALCOFI CRUISE 8105		STATION 87 100					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
31 39.4 N	123 04.3 W	22/05/81	0930 GMT	4136 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
000 22 KT	330 4 4	2	1020.0 MB	15.0 C	12.0 C	6/8 CU	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.72	15.72	33.426	24.601	332.7	0.000	0
10	15.73	15.73	33.421	24.595	333.6	0.033	10
20	15.74	15.74	33.425	24.596	333.9	0.067	20
30	15.74	15.74	33.424	24.596	334.2	0.100	30
40	15.65	15.64	33.429	24.620	332.2	0.133	40
50	15.57	15.56	33.429	24.638	330.8	0.167	50
75	15.33	15.32	33.407	24.675	328.0	0.249	76
100	15.02	15.00	33.497	24.813	315.7	0.329	101
125	13.22	13.20	33.605	25.272	272.3	0.403	126
150	11.82	11.80	33.600	25.540	247.2	0.468	151
175	9.95	9.93	33.638	25.901	212.9	0.525	176
200	9.13	9.11	33.770	26.138	190.6	0.576	202
225	8.55	8.53	33.911	26.340	171.7	0.621	227
250	8.09	8.06	33.992	26.473	159.4	0.662	252
275	7.71	7.68	34.016	26.548	152.5	0.701	277
300	7.44	7.41	34.025	26.594	148.4	0.739	302
350	6.95	6.92	34.059	26.689	139.9	0.811	353
400	6.46	6.42	34.091	26.780	131.6	0.879	403
450	6.01	5.97	34.123	26.863	124.0	0.943	454
500	5.74	5.70	34.175	26.938	117.3	1.003	504
520	5.69	5.65	34.183	26.951	116.3	1.027	525

STATION		90 30		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION		90 37	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
33 25.1 N	117 54.3 W	19/05/81		0825 GMT		621 M		33 11.1 N	118 23.2 W	19/05/81		1320 GMT		1202 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
320	07 KT	310 02 03		1012.2 MB	17.4 C	15.7 C		290	12 KT	290 03 03	2	1011.5 MB	17.5 C	15.2 C	E/R ST		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	19.24	19.24	33.654	23.933	396.5	.000	0	0	17.33	17.33	33.621	24.379	353.9	.000	0		
10	19.08	19.08	33.630	23.956	394.7	.039	10	10	17.33	17.33	33.614	24.374	354.7	.035	10		
20	13.17	13.17	33.581	25.261	270.5	-.073	20	20	16.40	16.40	33.456	24.471	345.8	-.070	20		
30	12.11	12.11	33.568	25.458	252.0	-.099	30	30	13.85	13.85	33.509	25.068	289.2	-.102	30		
40	11.29	11.29	33.615	25.646	234.3	-.123	40	40	12.72	12.71	33.537	25.317	265.7	-.129	40		
50	10.89	10.88	33.682	25.771	222.7	-.145	50	50	11.61	11.60	33.580	25.561	242.7	-.155	50		
75	10.04	10.03	33.763	25.981	203.1	-.198	75	75	10.36	10.35	33.695	25.874	213.4	-.211	75		
100	9.91	9.90	33.901	26.111	191.3	-.249	101	100	9.72	9.71	33.860	26.111	191.3	-.262	100		
125	9.61	9.60	33.979	26.223	181.2	-.296	126	125	9.23	9.22	33.946	26.259	177.7	-.309	126		
150	9.52	9.50	34.029	26.277	176.6	-.340	151	150	9.00	8.98	34.009	26.345	169.9	-.353	151		
175	9.42	9.40	34.090	26.342	171.0	-.383	176	175	8.78	8.76	34.063	26.422	163.0	-.394	176		
200	9.34	9.32	34.137	26.392	166.7	-.425	201	200	8.51	8.49	34.103	26.496	156.5	-.434	201		
225	9.17	9.17	34.179	26.449	161.7	-.466	226	225	8.55	8.53	34.148	26.525	154.2	-.472	226		
250	8.97	8.94	34.178	26.484	158.8	-.506	251	250	8.06	8.03	34.124	26.581	149.1	-.510	251		
275	8.80	8.77	34.195	26.524	155.4	-.546	277	275	7.91	7.88	34.154	26.627	145.1	-.548	277		
300	8.64	8.61	34.220	26.569	151.6	-.584	302	300	7.65	7.62	34.160	26.670	141.4	-.583	302		
350	7.91	7.87	34.182	26.650	144.3	-.658	352	350	7.16	7.13	34.178	26.754	133.9	-.652	352		
400	7.19	7.15	34.209	26.775	132.8	-.728	403	400	6.93	6.89	34.213	26.814	128.9	-.718	403		
450	6.88	6.84	34.236	26.839	127.2	-.792	453	450	6.52	6.48	34.238	26.889	122.2	-.780	453		
500	6.27	6.23	34.293	26.965	115.5	-.853	503	500	6.28	6.24	34.300	26.969	115.1	-.839	503		

STATION		90 47		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION		90 47	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
32 55.0 N	119 08.9 W	19/05/81		2343 GMT		1202 M		32 54.7 N	119 09.0 W	20/05/81		0422 GMT		1202 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	16.18	16.18	33.624	24.649	328.2	.000	0	0	16.10	16.10	33.647	24.685	324.8	.000	0		
10	16.08	16.08	33.631	24.678	325.8	-.033	10	10	16.11	16.11	33.636	24.675	326.0	-.032	10		
20	15.77	15.77	33.582	24.710	323.0	-.065	20	20	15.27	15.27	33.645	24.870	307.8	-.064	20		
30	14.65	14.65	33.559	24.938	301.5	-.096	30	30	13.79	13.79	33.479	25.057	290.2	-.094	30		
40	11.60	11.60	33.516	25.513	247.0	-.123	40	40	11.19	11.19	33.666	25.704	228.7	-.120	40		
50	10.63	10.62	33.700	25.830	217.0	-.146	50	50	10.90	10.89	33.666	25.756	224.0	-.142	50		
75	9.96	9.95	33.817	26.037	197.8	-.198	75	75	10.01	10.00	33.788	26.006	200.8	-.195	75		
100	9.44	9.43	33.964	26.238	179.2	-.247	101	100	9.62	9.61	33.924	26.177	185.0	-.245	101		
125	9.02	9.01	34.033	26.360	168.0	-.290	126	125	9.24	9.23	34.006	26.304	173.4	-.289	126		
150	8.73	8.71	34.059	26.427	162.1	-.331	151	150	8.82	8.80	34.061	26.414	163.4	-.331	151		
175	8.45	8.43	34.094	26.497	155.8	-.370	176	175	8.48	8.46	34.094	26.493	156.2	-.371	176		
200	8.30	8.28	34.121	26.542	152.0	-.408	201	200	8.31	8.29	34.145	26.559	150.4	-.409	201		
225	8.00	7.98	34.147	26.607	146.2	-.446	226	225	8.14	8.12	34.160	26.597	147.2	-.446	226		
250	7.77	7.75	34.167	26.657	141.8	-.481	251	250	7.85	7.83	34.179	26.655	142.0	-.482	251		
275	7.54	7.51	34.172	26.695	138.5	-.517	277	275	7.60	7.57	34.174	26.688	139.2	-.518	277		
300	7.45	7.42	34.192	26.724	136.1	-.552	302	300	7.36	7.33	34.201	26.743	134.2	-.552	302		
350	7.03	7.00	34.208	26.796	129.9	-.618	352	350	6.96	6.93	34.223	26.817	127.8	-.617	352		
400	6.66	6.62	34.235	26.867	123.6	-.682	403	400	6.58	6.54	34.249	26.889	121.5	-.680	403		
450	6.41	6.37	34.278	26.935	117.7	-.741	453	450	6.28	6.24	34.286	26.958	115.4	-.739	453		
500	6.13	6.09	34.310	26.997	112.3	-.799	503	500	6.06	6.02	34.322	27.015	110.5	-.795	503		

STATION		90 47		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION		90 47	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
32 54.9 N	119 08.8 W	20/05/81		0945 GMT		1202 M		32 55.2 N	119 08.6 W	20/05/81		1640 GMT		1202 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	16.02	16.02	33.651	24.707	322.7	.000	0	0	15.99	15.99	33.656	24.717	321.7	.000	0		
10	16.02	16.02	33.646	24.703	323.4	-.032	10	10	15.98	15.98	33.646	24.712	322.5	-.032	10		
20	15.31	15.31	33.553	24.790	315.4	-.064	20	20	15.41	15.41	33.623	24.822	312.3	-.064	20		
30	12.73	12.73	33.496	25.282	268.7	-.093	30	30	13.88	13.88	33.574	25.112	285.0	-.093	30		
40	11.14	11.14	33.654	25.704	228.8	-.118	40	40	11.24	11.24	33.661	25.691	230.0	-.119	40		
50	10.71	10.70	33.662	25.787	221.1	-.140	50	50	10.46	10.45	33.738	25.889	211.3	-.141	50		
75	9.95	9.94	33.853	26.067	195.0	-.192	75	75	10.01	10.00	33.824	26.034	198.1	-.192	75		
100	9.55	9.54	33.964	26.220	180.9	-.240	101	100	9.64	9.63	33.930	26.179	184.9	-.241	101		
125	9.02	9.01	34.064	26.385	165.7	-.284	126	125	9.08	9.07	34.026	26.345	169.5	-.285	126		
150	8.74	8.72	34.116	26.470	158.0	-.324	151	150	8.78	8.76	34.080	26.435	161.3	-.327	151		
175	8.44	8.42	34.119	26.519	153.8	-.362	176	175	8.48	8.46	34.116	26.510	154.6	-.366	176		
200	8.25	8.23	34.148	26.571	149.3	-.400	201	200	8.38	8.36	34.163	26.563	150.1	-.404	201		
225	8.08	8.06	34.162	26.608	146.2	-.437	226	225	7.98	7.96	34.140	26.605	146.3	-.440	226		
250	7.79	7.77	34.162	26.651	142.4	-.474	252	250	7.74	7.72	34.152	26.650	142.4	-.476	251		
275	7.58	7.55	34.164	26.683	139.7	-.509	277	275	7.46	7.43	34.166	26.701	137.8	-.512	277		
300	7.36	7.33	34.185	26.731	135.4	-.543	302	300	7.20	7.17	34.180	26.750	133.6	-.546	302		
350	7.02	6.99	34.207	26.796	129.8	-.609	352	350	6.81	6.78	34.202	26.821	127.3	-.611	352		
400	6.66	6.62	34.244	26.875	122.9	-.673	403	400	6.59	6.55	34.239	26.880	122.4	-.674	403		
450	6.31	6.27	34.278	26.948	116.4	-.732	453	450	6.28	6.24	34.275	26.949	116.2	-.733	453		
500	6.05	6.01	34.318	27.013	110.7	-.789	503	500	6.06	6.02	34.317	27.011	110.9	-.789	503		



STATION 90 47		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION 90 47			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM					
32 55.0 N	119 09.0 W	20/05/81	2250 GMT	1202 M		32 54.7 N	119 08.9 W	21/05/81	0635 GMT	1202 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.37	16.37	33.648	24.624	330.6	.000	0	0	16.38	16.38	33.635	24.612	331.7	.000	0
10	16.35	16.35	33.636	24.620	331.3	.033	10	10	16.38	16.38	33.635	24.613	332.0	.033	10
20	14.50	14.50	33.624	25.020	293.4	.064	20	20	16.23	16.23	33.618	24.634	330.2	.066	20
30	12.36	12.36	33.588	25.426	255.1	.091	30	30	12.98	12.98	33.572	25.292	267.8	.096	30
40	11.04	11.04	33.643	25.713	227.9	.115	40	40	11.17	11.17	33.648	25.694	229.7	.121	40
50	10.49	10.48	33.720	25.870	213.2	.137	50	50	10.67	10.66	33.681	25.808	219.1	.143	50
75	9.92	9.91	33.882	26.094	192.3	.188	75	75	9.92	9.91	33.868	26.083	193.4	.194	75
100	9.26	9.25	33.959	26.264	176.8	.235	101	100	9.30	9.29	33.969	26.265	176.7	.242	101
125	9.04	9.03	34.055	26.374	166.7	.278	126	125	9.02	9.01	34.064	26.385	165.7	.285	126
150	8.71	8.69	34.086	26.451	159.8	.319	151	150	8.68	8.66	34.089	26.458	159.2	.325	151
175	8.46	8.44	34.101	26.502	155.4	.358	176	175	8.34	8.32	34.119	26.534	152.3	.364	176
200	8.19	8.17	34.121	26.558	150.4	.396	201	200	8.14	8.12	34.136	26.578	148.6	.401	201
225	7.97	7.95	34.140	26.606	146.2	.433	226	225	7.92	7.90	34.139	26.613	145.6	.437	226
250	7.75	7.73	34.152	26.648	142.6	.470	252	250	7.72	7.70	34.146	26.648	142.6	.473	251
275	7.55	7.52	34.164	26.687	139.2	.505	277	275	7.53	7.50	34.180	26.702	137.8	.509	277
300	7.73	7.70	34.240	26.721	136.6	.539	302	300	7.17	7.14	34.185	26.758	132.8	.543	302
350	7.05	7.02	34.203	26.789	130.6	.605	352	350	6.74	6.71	34.212	26.838	125.6	.607	352
400	6.64	6.60	34.236	26.871	123.2	.670	403	400	6.51	6.47	34.243	26.894	121.0	.669	403
450	6.44	6.40	34.273	26.927	118.5	.730	453	450	6.21	6.17	34.282	26.964	114.8	.728	453
500	6.13	6.09	34.312	26.998	112.2	.787	503	500	6.04	6.00	34.317	27.014	110.6	.784	503

STATION 90 47		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION 90 47			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM					
32 55.0 N	119 09.0 W	21/05/81	1032 GMT	1202 M		32 54.8 N	119 08.5 W	21/05/81	1700 GMT	1256 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
310	19 KT	300 D4 D6	0	1017.6 MB	15.9 C	14.3 C	0/8								
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.32	16.32	33.642	24.631	329.9	.000	0	0	16.39	16.39	33.642	24.615	331.4	.000	0
10	16.32	16.32	33.635	24.626	330.7	.033	10	10	16.35	16.35	33.641	24.624	330.9	.033	10
20	14.19	14.19	33.646	25.103	285.6	.064	20	20	16.30	16.30	33.639	24.634	330.3	.066	20
30	12.51	12.51	33.647	25.442	253.5	.090	30	30	14.01	14.01	33.648	25.142	282.1	.096	30
40	11.16	11.16	33.636	25.686	230.5	.114	40	40	11.20	11.20	33.675	25.709	228.3	.122	40
50	10.56	10.55	33.709	25.849	215.1	.137	50	50	10.66	10.65	33.707	25.830	217.0	.144	50
75	9.92	9.91	33.818	26.044	197.1	.188	75	75	10.03	10.02	33.830	26.035	198.0	.196	75
100	9.59	9.58	33.933	26.189	183.8	.237	101	100	9.59	9.58	33.939	26.194	183.4	.245	101
125	9.06	9.05	34.036	26.356	168.4	.281	126	125	9.20	9.19	33.996	26.303	173.6	.289	126
150	8.73	8.71	34.112	26.468	158.2	.321	151	150	9.03	9.01	34.046	26.369	167.6	.332	151
175	8.40	8.38	34.108	26.516	154.0	.360	176	175	8.64	8.62	34.090	26.465	158.9	.372	176
200	8.14	8.12	34.133	26.575	148.8	.398	201	200	8.31	8.29	34.129	26.547	151.6	.411	201
225	7.96	7.94	34.140	26.608	146.1	.434	226	225	8.08	8.06	34.142	26.592	147.7	.448	226
250	7.72	7.70	34.149	26.651	142.4	.472	252	250	7.82	7.80	34.147	26.634	144.0	.484	251
275	7.50	7.47	34.155	26.687	139.2	.507	277	275	7.55	7.52	34.158	26.682	139.7	.521	277
300	7.28	7.25	34.167	26.728	135.6	.541	302	300	7.35	7.32	34.186	26.733	135.2	.555	302
350	7.06	7.03	34.225	26.805	129.1	.606	352	350	6.95	6.92	34.214	26.811	128.3	.620	352
400	6.72	6.68	34.238	26.862	124.2	.670	403	400	6.58	6.54	34.246	26.887	121.7	.683	403
450	6.38	6.34	34.276	26.937	117.5	.730	453	450	6.23	6.19	34.288	26.966	114.6	.742	453
500	6.08	6.04	34.318	27.010	111.1	.787	503	500	6.01	5.97	34.327	27.025	109.5	.798	503

STATION 90 53		RV DAVID STARR JORDAN					CALCOFI CRUISE 8105					STATION 90 60			
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM					
32 39.1 N	119 28.9 W	21/05/81	2315 GMT	1387 M		32 25.1 N	119 57.6 W	22/05/81	0440 GMT	948 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	26 KT	310 D6 05	1	1018.0 MB	14.9 C	13.0 C	2/8 CI	320	25 KT			1019.0 MB	13.9 C	11.9 C	
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.PAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.61	15.61	33.659	24.805	313.4	.000	0	0	14.24	14.24	33.680	25.118	283.6	.000	0
10	15.62	15.62	33.651	24.797	314.4	.031	10	10	14.25	14.25	33.675	25.112	284.4	.028	10
20	13.72	13.72	33.782	25.305	266.3	.060	20	20	14.18	14.18	33.675	25.127	283.3	.057	20
30	12.97	12.97	33.698	25.392	258.3	.086	30	30	13.83	13.83	33.659	25.188	277.8	.084	30
40	12.29	12.28	33.707	25.531	245.3	.111	40	40	13.45	13.44	33.656	25.263	270.8	.112	40
50	11.81	11.80	33.703	25.619	237.1	.135	50	50	13.40	13.39	33.645	25.265	270.9	.139	50
75	10.26	10.25	33.711	25.903	210.5	.191	75	75	11.56	11.55	33.538	25.538	245.4	.203	75
100	9.40	9.39	33.882	26.181	184.6	.242	101	100	10.22	10.21	33.598	25.823	218.7	.261	100
125	9.18	9.17	33.971	26.286	175.1	.287	126	125	9.39	9.38	33.768	26.094	193.4	.314	126
150	9.03	9.01	34.050	26.372	167.4	.329	151	150	9.06	9.04	33.897	26.248	179.2	.360	151
175	8.71	8.69	34.066	26.436	161.7	.370	176	175	8.65	8.63	33.991	26.386	166.4	.403	176
200	8.31	8.29	34.083	26.511	155.0	.410	201	200	8.42	8.40	34.047	26.466	159.3	.444	201
225	7.96	7.94	34.148	26.614	145.5	.447	226	225	8.23	8.21	34.082	26.522	154.3	.483	226
250	7.75	7.73	34.157	26.652	142.2	.483	251	250	7.85	7.83	34.097	26.591	148.1	.520	251
275	7.42	7.39	34.188	26.724	135.7	.518	277	275	7.76	7.73	34.116	26.619	145.8	.558	277
300	7.39	7.36	34.185	26.727	135.8	.552	302	300	7.51	7.48	34.147	26.680	140.4	.593	302
350	6.99	6.96	34.213	26.805	129.0	.618	352	350	6.92	6.89	34.200	26.804	129.0	.660	352
400	6.63	6.59	34.239	26.875	122.9	.682	403	400	6.51	6.47	34.243	26.894	121.0	.724	403
450	6.22	6.18	34.293	26.971	114.1	.740	453	450	6.26	6.22	34.285	26.960	115.2	.782	453
500	6.04	6.00	34.320	27.016	110.4	.796	503	500	5.94	5.90	34.332	27.038	108.2	.838	503

STATION 90 60		RV DAVID STARR JORDAN								CALCOFI CRUISE 8105					STATION 90 60		
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
32 25.0 N	119 57.7 W	22/05/81		1212 GMT		948 M		32 25.1 N	119 57.3 W	22/05/81		1705 GMT		948 M			
WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	14.11	14.11	33.666	25.134	282.0	.000	0	0	14.05	14.05	33.688	25.164	279.2	.000	0		
10	14.11	14.11	33.661	25.130	282.7	.028	10	10	14.06	14.06	33.688	25.162	279.7	.028	10		
20	14.10	14.10	33.658	25.131	282.9	.056	20	20	14.05	14.05	33.684	25.161	280.0	.056	20		
30	14.03	14.03	33.642	25.133	283.0	.084	30	30	14.00	14.00	33.677	25.166	279.8	.084	30		
40	13.54	13.53	33.641	25.234	273.7	.112	40	40	13.69	13.68	33.687	25.239	273.2	.111	40		
50	13.26	13.25	33.625	25.278	269.7	.139	50	50	13.32	13.31	33.649	25.284	269.1	.138	50		
75	11.68	11.67	33.580	25.548	244.5	.203	75	75	12.30	12.29	33.653	25.489	250.2	.203	75		
100	9.66	9.65	33.687	25.986	203.1	.259	100	100	9.98	9.97	33.658	25.910	210.4	.260	100		
125	9.20	9.19	33.848	26.187	184.5	.309	126	125	9.37	9.36	33.816	26.134	189.5	.312	126		
150	8.89	8.87	33.940	26.308	173.4	.353	151	150	9.05	9.03	33.920	26.267	177.3	.357	151		
175	8.62	8.60	33.972	26.376	167.4	.396	176	175	8.68	8.66	33.972	26.367	168.3	.400	176		
200	8.49	8.47	34.007	26.424	163.3	.437	201	200	8.39	8.37	34.044	26.468	159.1	.441	201		
225	8.23	8.21	34.036	26.486	157.7	.477	226	225	8.07	8.05	34.100	26.560	150.7	.479	226		
250	7.97	7.94	34.066	26.549	152.1	.515	251	250	7.86	7.84	34.106	26.596	147.5	.516	251		
275	7.69	7.66	34.100	26.617	146.0	.554	277	275	7.60	7.57	34.158	26.675	140.4	.553	277		
300	7.35	7.32	34.114	26.677	140.5	.589	302	300	7.31	7.28	34.152	26.712	137.2	.588	302		
350	7.05	7.03	34.153	26.748	134.4	.657	352	350	6.93	6.90	34.197	26.801	129.4	.654	352		
400	6.58	6.54	34.213	26.861	124.1	.723	403	400	6.54	6.50	34.249	26.894	121.0	.717	403		
450	6.32	6.28	34.262	26.918	119.2	.783	453	450	6.17	6.13	34.306	26.988	112.5	.775	453		
500	6.14	6.10	34.286	26.977	114.2	.841	503	500	5.99	5.95	34.334	27.033	108.7	.830	503		

STATION 90 60		RV DAVID STARR JORDAN								CALCOFI CRUISE 8105					STATION 90 60		
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
32 25.1 N	119 57.6 W	22/05/81		2310 GMT		948 M		32 25.1 N	119 57.3 W	23/05/81		0445 GMT		948 M			
WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	13.93	13.93	33.698	25.196	276.1	.000	0	0	13.77	13.77	33.693	25.226	273.3	.000	0		
10	13.93	13.93	33.691	25.191	276.9	.028	10	10	13.77	13.77	33.687	25.221	274.0	.027	10		
20	13.86	13.86	33.688	25.204	276.0	.055	20	20	13.75	13.75	33.681	25.221	274.3	.055	20		
30	13.75	13.75	33.684	25.223	274.4	.082	30	30	13.68	13.68	33.683	25.237	273.1	.082	30		
40	13.70	13.69	33.675	25.227	274.3	.110	40	40	13.61	13.60	33.683	25.251	272.0	.109	40		
50	13.59	13.58	33.648	25.229	274.4	.137	50	50	13.31	13.30	33.644	25.283	269.3	.136	50		
75	11.16	11.15	33.610	25.667	233.1	.200	75	75	11.43	11.42	33.600	25.610	238.6	.199	75		
100	9.68	9.67	33.687	25.982	203.4	.254	100	100	9.60	9.59	33.701	26.006	201.2	.254	100		
125	9.30	9.29	33.814	26.144	188.6	.305	126	125	9.29	9.28	33.808	26.141	188.9	.304	126		
150	8.92	8.90	33.942	26.305	173.7	.350	151	150	8.92	8.90	33.918	26.287	175.5	.349	151		
175	8.50	8.48	34.009	26.423	162.8	.392	176	175	8.59	8.57	33.973	26.381	166.9	.392	176		
200	8.31	8.29	34.067	26.498	156.2	.432	201	200	8.38	8.36	34.052	26.476	158.3	.432	201		
225	8.03	8.01	34.080	26.551	151.6	.470	226	225	8.12	8.10	34.089	26.544	152.2	.471	226		
250	7.85	7.83	34.118	26.607	146.5	.507	251	250	7.93	7.90	34.121	26.598	147.5	.508	251		
275	7.40	7.37	34.120	26.674	140.4	.544	277	275	7.36	7.33	34.112	26.673	140.4	.545	277		
300	7.28	7.25	34.149	26.714	136.9	.578	302	300	7.20	7.17	34.148	26.724	135.9	.579	302		
350	6.96	6.93	34.189	26.790	130.4	.645	352	350	6.78	6.75	34.210	26.831	126.3	.644	352		
400	6.58	6.54	34.240	26.882	122.2	.708	403	400	6.48	6.44	34.235	26.891	121.2	.707	403		
450	6.26	6.22	34.277	26.954	115.8	.767	453	450	6.23	6.19	34.275	26.956	115.6	.766	453		
500	5.96	5.92	34.334	27.037	108.3	.823	503	500	5.89	5.85	34.333	27.045	107.5	.821	503		

STATION 90 60		RV DAVID STARR JORDAN								CALCOFI CRUISE 8105					STATION 90 60		
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			
32 25.0 N	119 57.5 W	23/05/81		1214 GMT		948 M		32 25.2 N	119 57.7 W	23/05/81		1705 GMT		948 M			
WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER		DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR		
0	13.88	13.88	33.677	25.190	276.7	.000	0	0	14.00	14.00	33.672	25.162	279.4	.000	0		
10	13.88	13.88	33.671	25.186	277.3	.028	10	10	13.98	13.98	33.667	25.162	279.6	.028	10		
20	13.88	13.88	33.661	25.178	278.4	.055	20	20	13.96	13.96	33.655	25.157	280.4	.056	20		
30	13.86	13.86	33.654	25.177	278.7	.083	30	30	13.84	13.84	33.650	25.179	278.6	.084	30		
40	13.83	13.82	33.652	25.182	278.6	.111	40	40	13.65	13.64	33.652	25.219	275.0	.111	40		
50	13.71	13.70	33.658	25.212	276.0	.138	50	50	13.50	13.49	33.656	25.253	273.1	.138	50		
75	12.86	12.85	33.600	25.339	264.6	.206	75	75	11.34	11.33	33.645	25.661	232.7	.201	75		
100	10.02	10.01	33.650	25.897	211.7	.265	100	100	9.75	9.74	33.679	25.965	205.2	.256	100		
125	9.36	9.35	33.789	26.115	191.4	.317	126	125	9.30	9.29	33.795	26.129	190.0	.307	126		
150	9.02	9.00	33.912	26.266	177.4	.363	151	150	9.03	9.01	33.906	26.260	178.0	.353	151		
175	8.70	8.68	33.966	26.359	169.0	.406	176	175	8.64	8.62	33.967	26.369	168.1	.396	176		
200	8.44	8.42	34.036	26.454	160.4	.447	201	200	8.36	8.34	34.049	26.476	158.3	.436	201		
225	8.17	8.10	34.073	26.532	153.4	.486	226	225	8.19	8.17	34.076	26.523	154.2	.475	226		
250	7.94	7.91	34.096	26.577	149.4	.523	251	250	7.85	7.83	34.090	26.585	148.6	.512	251		
275	7.58	7.55	34.120	26.648	142.9	.561	277	275	7.72	7.69	34.057	26.578	149.6	.551	277		
300	7.32	7.29	34.134	26.697	138.7	.596	302	300	7.65	7.62	34.057	26.589	149.0	.588	302		
350	6.88	6.85	34.196	26.807	128.8	.662	352	350	6.92	6.89	34.181	26.789	130.4	.657	352		
400	6.60	6.56	34.233	26.874	122.9	.726	403	400	6.62	6.58	34.223	26.863	123.9	.722	403		
450	6.24	6.20	34.278	26.957	115.5	.785	453	450	6.24	6.20	34.268	26.949	116.2	.781	453		
500	6.02	5.98	34.323	27.021	109.9	.841	503	500	5.96	5.92	34.315	27.022	109.7	.837	503		



STATION 90 60		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
32 25.1 N	119 57.6 W	23/05/81	2245 GMT	948 M	32 05.1 N	120 38.3 W	24/05/81	0845 GMT	3926 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	25 KT			1013.2 MB				330	25 KT			1013.2 MB	15.5 C	14.5 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	14.16	14.16	33.673	25.129	282.5	.000	0	0	15.43	15.43	33.550	24.761	317.5	.000	0
10	14.11	14.11	33.647	25.120	283.7	.028	10	10	15.43	15.43	33.547	24.759	318.0	.032	10
20	13.84	13.84	33.649	25.178	278.4	.056	20	20	15.42	15.42	33.533	24.750	319.2	.063	20
30	13.71	13.71	33.669	25.220	274.7	.084	30	30	15.32	15.32	33.519	24.762	318.4	.095	30
40	13.59	13.58	33.664	25.241	273.0	.111	40	40	15.00	14.99	33.519	24.832	312.0	.126	40
50	13.08	13.07	33.661	25.342	263.7	.138	50	50	14.83	14.82	33.493	24.849	310.6	.157	50
75	11.06	11.05	33.622	25.694	230.5	.199	75	75	12.59	12.58	33.508	25.320	266.3	.229	75
100	9.71	9.70	33.662	25.958	205.8	.253	100	100	10.94	10.93	33.551	25.661	234.3	.292	100
125	9.20	9.19	33.837	26.178	185.3	.304	126	125	9.90	9.89	33.689	25.948	207.3	.349	126
150	8.58	8.56	33.988	26.394	165.2	.347	151	150	9.18	9.16	33.886	26.220	181.8	.397	151
175	8.30	8.28	34.051	26.487	156.7	.387	176	175	8.88	8.86	33.962	26.328	172.1	.441	176
200	8.12	8.10	34.097	26.550	151.1	.426	201	200	8.70	8.68	33.991	26.379	167.6	.483	201
225	7.87	7.85	34.107	26.595	147.2	.463	226	225	8.50	8.48	34.050	26.456	160.7	.524	226
250	7.62	7.60	34.110	26.634	143.9	.499	251	250	8.05	8.02	34.119	26.579	149.4	.562	251
275	7.32	7.29	34.115	26.681	139.7	.535	277	275	7.78	7.75	34.138	26.634	144.5	.600	277
300	7.22	7.19	34.133	26.710	137.3	.570	302	300	7.68	7.65	34.151	26.659	142.5	.636	302
350	7.02	6.99	34.158	26.758	133.5	.637	352	350	7.32	7.29	34.179	26.733	136.1	.705	352
400	6.72	6.68	34.207	26.837	126.5	.703	403	400	6.98	6.94	34.178	26.780	132.2	.773	403
450	6.32	6.28	34.256	26.929	118.2	.763	453	450	6.56	6.52	34.253	26.896	121.6	.836	453
500	5.94	5.90	34.314	27.024	109.6	.820	503	500	6.26	6.22	34.296	26.969	115.1	.895	503

STATION 90 80		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 90 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
31 45.1 N	121 18.9 W	24/05/81	1442 GMT	3738 M	31 25.1 N	121 59.4 W	24/05/81	2150 GMT	4022 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
340	22 KT	320 06 07	2	1014.6 MB	16.0 C	15.1 C	8/8 ST	340	20 KT	330 05 05	2	1015.6 MB	16.9 C	15.5 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	15.48	15.48	33.561	24.758	317.8	.000	0	0	15.76	15.76	33.561	24.696	323.8	.000	0
10	15.48	15.48	33.552	24.752	318.7	.032	10	10	15.73	15.73	33.552	24.696	324.0	.032	10
20	15.48	15.48	33.543	24.745	319.6	.063	20	20	15.66	15.66	33.545	24.707	323.3	.064	20
30	15.48	15.48	33.534	24.738	320.6	.095	30	30	15.62	15.62	33.537	24.710	323.4	.097	30
40	15.48	15.47	33.525	24.732	321.6	.127	40	40	15.59	15.58	33.525	24.708	323.9	.129	40
50	15.32	15.31	33.509	24.755	319.7	.159	50	50	15.43	15.42	33.512	24.733	321.7	.161	50
75	14.04	14.03	33.935	25.050	292.2	.235	75	75	13.95	13.94	33.431	24.988	298.0	.238	75
100	11.24	11.23	33.944	25.601	239.9	.302	100	100	11.80	11.79	33.482	25.450	254.4	.307	100
125	10.44	10.43	33.600	25.787	222.8	.361	126	125	10.68	10.67	33.585	25.733	227.9	.369	126
150	9.71	9.69	33.729	26.011	201.8	.414	151	150	9.92	9.90	33.665	25.926	209.9	.424	151
175	9.00	8.98	33.891	26.253	179.2	.462	176	175	9.02	9.00	33.821	26.195	184.6	.473	176
200	8.54	8.52	33.939	26.363	169.1	.505	201	200	8.69	8.67	33.935	26.337	171.6	.517	201
225	8.16	8.14	34.002	26.470	159.2	.546	226	225	8.34	8.32	34.016	26.454	160.8	.558	226
250	7.89	7.87	34.020	26.524	154.4	.584	251	250	8.16	8.13	34.039	26.499	156.9	.598	251
275	7.62	7.59	34.039	26.579	149.5	.624	277	275	7.59	7.56	34.063	26.602	147.3	.637	277
300	7.29	7.26	34.072	26.652	142.8	.660	302	300	7.42	7.39	34.075	26.636	144.4	.673	302
350	6.95	6.92	34.124	26.740	135.0	.729	352	350	6.75	6.72	34.097	26.746	134.3	.742	352
400	6.48	6.44	34.190	26.856	124.5	.793	402	400	6.37	6.33	34.171	26.855	124.5	.807	402
450	6.20	6.16	34.228	26.922	118.7	.855	453	450	6.27	6.23	34.248	26.929	118.1	.868	453
500	5.92	5.88	34.286	27.004	111.4	.912	503	500	5.98	5.94	34.303	27.010	110.9	.925	503

STATION 90 100		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 93 26.7					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
31 05.1 N	122 39.7 W	25/05/81	0330 GMT	4022 M	32 57.4 N	117 18.3 W	28/05/81	0104 GMT	65 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
330	18 KT			1016.6 MB	16.0 C	15.0 C		290	06 KT	290 02 03	1	1013.5 MB	18.8 C	16.2 C	4/R CU
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	15.99	15.99	33.926	24.617	331.2	.000	0	0	19.36	19.36	33.589	23.853	404.1	.000	0
10	15.99	15.99	33.522	24.615	331.8	.033	10	10	17.33	17.33	33.574	24.343	357.7	.038	10
20	15.93	15.93	33.511	24.620	331.6	.066	20	20	14.26	14.26	33.537	25.004	295.0	.070	20
30	15.79	15.79	33.485	24.632	330.8	.099	30	30	12.15	12.15	33.546	25.433	254.4	.098	30
40	15.70	15.69	33.462	24.635	330.8	.132	40	40	11.20	11.20	33.676	25.710	228.2	.122	40
50	14.91	14.90	33.442	24.793	316.0	.164	50	50	10.80	10.79	33.718	25.814	218.5	.144	50
75	13.59	13.58	33.438	25.067	290.5	.240	75	54	10.65	10.64	33.741	25.859	214.3	.153	54
100	12.66	12.65	33.498	25.300	268.9	.309	100								
125	11.11	11.09	33.940	25.622	238.6	.375	126								
150	9.50	9.48	33.700	26.023	200.6	.429	151								
175	8.95	8.93	33.849	26.228	181.5	.477	176								
200	8.56	8.54	33.901	26.330	172.2	.521	201								
225	8.14	8.12	33.947	26.430	163.0	.563	226								
250	7.84	7.82	33.993	26.511	155.7	.602	251								
275	7.60	7.57	33.987	26.541	153.1	.642	277								
300	7.06	7.03	33.970	26.603	147.2	.679	302								
350	6.47	6.44	34.003	26.709	137.6	.750	352								
400	6.03	6.00	34.053	26.805	128.8	.816	402								
450	5.78	5.74	34.123	26.892	121.0	.879	453								
500	5.59	5.55	34.199	26.976	113.6	.937	503								



STATION 93 30		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 40	
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
32 50.8 N	117 31.9 W	28/05/81	0425 GMT	787 M	32 30.8 N	118 12.8 W	28/05/81	1122 GMT	1664 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
240	03 KT			1013.9 MB	17.7 C	15.8 C		290	13 KT	300 02 05	2	1013.5 MB	16.7 C	14.8 C	8/8 ST
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	18.44	18.44	33.633	24.118	378.8	.000	0	0	17.87	17.87	33.656	24.276	363.8	.000	0
10	18.10	18.10	33.584	24.165	374.7	.038	10	10	17.88	17.88	33.644	24.264	365.2	.036	10
20	16.49	16.49	33.561	24.531	340.1	.073	20	20	16.99	16.99	33.577	24.427	350.0	.072	20
30	14.01	14.01	33.438	24.980	297.6	.105	30	30	15.21	15.21	33.466	24.745	319.9	.105	30
40	12.17	12.16	33.499	25.393	258.4	.133	40	40	13.89	13.88	33.470	25.030	293.1	.136	40
50	11.49	11.48	33.540	25.552	243.5	.158	50	50	12.02	12.01	33.554	25.464	251.9	.163	50
75	10.17	10.16	33.781	25.973	203.9	.213	75	75	10.53	10.52	33.692	25.842	216.4	.221	75
100	9.87	9.86	33.868	26.092	193.1	.263	100	100	9.69	9.68	33.808	26.075	194.7	.272	100
125	9.69	9.68	33.975	26.206	182.8	.311	125	125	9.41	9.40	33.919	26.208	182.5	.321	125
150	9.65	9.63	34.068	26.286	175.7	.356	150	150	9.05	9.03	33.991	26.323	172.1	.365	150
175	9.51	9.49	34.103	26.337	171.4	.399	175	175	8.76	8.74	34.020	26.392	165.9	.407	175
200	9.33	9.31	34.130	26.388	167.1	.441	200	200	8.45	8.43	34.048	26.462	159.7	.447	200
225	9.25	9.23	34.166	26.429	163.6	.482	225	225	8.08	8.06	34.088	26.550	151.7	.486	225
250	9.12	9.09	34.185	26.466	160.7	.522	250	250	7.94	7.91	34.094	26.575	149.6	.524	250
275	8.96	8.93	34.200	26.503	157.5	.563	275	275	8.12	8.09	34.198	26.631	144.9	.562	275
300	8.80	8.77	34.216	26.542	154.3	.602	300	300	8.02	7.99	34.220	26.663	142.3	.597	300
350	8.24	8.20	34.200	26.615	147.8	.677	350	350	7.64	7.61	34.237	26.733	136.3	.666	350
400	7.78	7.74	34.222	26.702	140.3	.750	400	400	7.14	7.10	34.241	26.807	129.7	.734	400
450	6.97	6.93	34.234	26.825	128.6	.816	450	450	6.89	6.85	34.278	26.871	124.3	.797	450
500	6.59	6.54	34.262	26.899	122.0	.879	500	500	6.53	6.48	34.303	26.940	118.1	.857	500

STATION 93 40		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 40	
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
32 31.0 N	118 12.4 W	28/05/81	1704 GMT	1664 M	32 30.8 N	118 12.8 W	28/05/81	2233 GMT	1664 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.82	17.82	33.642	24.277	363.6	.000	0	0	17.88	17.88	33.641	24.262	365.1	.000	0
10	17.81	17.81	33.636	24.275	364.1	.036	10	10	17.87	17.87	33.627	24.254	366.2	.036	10
20	15.89	15.89	33.584	24.685	325.4	.071	20	20	17.49	17.49	33.568	24.301	362.1	.073	20
30	14.43	14.43	33.451	24.902	305.0	.102	30	30	14.58	14.58	33.541	24.939	301.4	.106	30
40	12.82	12.81	33.561	25.315	265.8	.130	40	40	13.98	13.97	33.512	25.043	291.8	.135	40
50	12.25	12.24	33.527	25.399	258.0	.156	50	50	12.04	12.03	33.543	25.452	253.0	.162	50
75	10.27	10.26	33.724	25.912	209.7	.215	75	75	10.35	10.34	33.685	25.867	214.0	.220	75
100	9.86	9.85	33.876	26.100	192.4	.265	100	100	9.84	9.83	33.839	26.075	194.8	.271	100
125	9.42	9.41	33.992	26.264	177.3	.312	125	125	9.65	9.64	33.956	26.198	183.6	.320	125
150	9.08	9.06	34.062	26.374	167.3	.355	150	150	9.16	9.14	34.052	26.353	169.3	.364	150
175	8.52	8.50	34.080	26.476	157.9	.396	175	175	8.86	8.84	34.060	26.407	164.5	.405	175
200	8.28	8.26	34.089	26.520	154.1	.434	200	200	8.42	8.40	34.079	26.491	156.9	.445	200
225	8.63	8.61	34.216	26.566	150.4	.472	225	225	8.40	8.38	34.130	26.534	153.3	.484	225
250	8.51	8.48	34.218	26.587	148.8	.509	250	250	8.54	8.51	34.219	26.583	149.2	.521	250
275	8.20	8.17	34.214	26.631	144.9	.547	275	275	8.25	8.22	34.227	26.634	144.7	.559	275
300	8.03	8.00	34.241	26.678	140.9	.583	300	300	7.98	7.95	34.226	26.674	141.2	.595	300
350	7.73	7.70	34.269	26.745	135.3	.651	350	350	7.80	7.76	34.262	26.729	136.8	.664	350
400	7.20	7.16	34.274	26.825	128.1	.718	400	400	7.43	7.39	34.265	26.785	132.1	.732	400
450	6.92	6.88	34.292	26.878	123.7	.780	450	450	6.98	6.94	34.290	26.868	124.6	.796	450
500	6.53	6.48	34.324	26.956	116.6	.840	500	500	6.56	6.51	34.326	26.954	116.9	.855	500

STATION 93 40		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 40	
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
32 30.8 N	118 12.7 W	29/05/81	0428 GMT	1664 M	32 31.0 N	118 12.9 W	29/05/81	1202 GMT	1664 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.93	17.93	33.643	24.251	366.1	.000	0	0	17.94	17.94	33.641	24.247	366.5	.000	0
10	17.67	17.67	33.625	24.301	361.7	.036	10	10	17.94	17.94	33.630	24.239	367.6	.037	10
20	15.02	15.02	33.547	24.849	309.8	.070	20	20	17.01	17.01	33.540	24.394	353.2	.072	20
30	13.67	13.67	33.495	25.094	286.7	.099	30	30	14.35	14.35	33.488	24.947	300.7	.105	30
40	12.35	12.34	33.492	25.353	262.2	.127	40	40	12.61	12.60	33.512	25.318	265.5	.133	40
50	11.31	11.30	33.605	25.635	235.6	.151	50	50	11.88	11.87	33.547	25.485	249.9	.159	50
75	10.28	10.27	33.700	25.891	211.7	.207	75	75	10.64	10.63	33.692	25.823	218.3	.217	75
100	9.67	9.66	33.934	26.177	185.0	.256	100	100	9.98	9.97	33.843	26.054	196.7	.269	100
125	9.50	9.49	33.992	26.251	178.5	.303	125	125	9.69	9.68	33.948	26.185	184.8	.318	125
150	9.15	9.13	34.054	26.356	168.9	.347	150	150	9.47	9.45	34.057	26.307	173.7	.362	150
175	9.02	9.00	34.135	26.441	161.4	.388	175	175	9.12	9.10	34.106	26.402	165.1	.405	175
200	8.40	8.38	34.143	26.544	151.8	.426	200	200	9.01	8.99	34.189	26.485	157.7	.445	200
225	8.58	8.56	34.222	26.579	149.1	.464	225	225	8.16	8.14	34.096	26.544	152.2	.483	225
250	8.45	8.42	34.232	26.607	146.9	.501	250	250	8.56	8.53	34.224	26.584	149.1	.521	250
275	8.14	8.11	34.220	26.645	143.6	.538	275	275	8.40	8.37	34.238	26.620	146.1	.559	275
300	7.95	7.92	34.227	26.679	140.7	.573	300	300	8.07	8.04	34.225	26.660	142.6	.595	300
350	7.67	7.64	34.254	26.742	135.5	.642	350	350	7.74	7.71	34.256	26.733	136.4	.664	350
400	7.17	7.13	34.265	26.822	128.4	.709	400								

STATION 93 40		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 40	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM			
32 30.9 N	118 12.6 W	29/05/81		1701 GMT	1664 M		32 30.8 N	118 12.8 W	29/05/81		2242 GMT	1664 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	18.04	18.04	33.648	24.228	368.3	.000	0	0	18.16	18.16	33.631	24.186	372.3	.000	0
10	18.02	18.02	33.632	24.221	369.3	.037	10	10	18.00	18.00	33.630	24.224	369.0	.037	10
20	15.77	15.77	33.408	24.577	335.7	-.072	20	20	15.58	15.58	33.548	24.727	321.4	-.071	20
30	13.55	13.55	33.481	25.107	285.4	-.103	30	30	14.40	14.40	33.555	24.988	296.7	-.102	30
40	12.40	12.39	33.554	25.391	258.5	-.130	40	40	13.30	13.29	33.552	25.213	275.6	-.131	40
50	11.57	11.56	33.595	25.580	240.9	-.155	50	50	12.08	12.07	33.556	25.454	252.8	-.157	50
75	10.23	10.22	33.746	25.936	207.5	-.210	75	75	10.80	10.79	33.648	25.760	224.2	-.216	75
100	9.79	9.78	33.903	26.133	189.2	-.260	100	100	10.05	10.04	33.752	25.971	204.6	-.269	100
125	9.48	9.47	34.026	26.281	175.7	-.307	126	125	9.62	9.61	33.932	26.184	184.8	-.320	126
150	9.19	9.17	34.105	26.390	165.8	-.349	151	150	9.40	9.38	34.029	26.297	174.7	-.364	151
175	9.20	9.18	34.158	26.430	162.5	-.390	176	175	9.08	9.06	34.090	26.396	165.6	-.407	176
200	8.86	8.84	34.208	26.524	154.0	-.429	201	200	9.05	9.03	34.183	26.474	159.8	-.447	201
225	8.62	8.60	34.222	26.573	149.7	-.467	226	225	8.74	8.72	34.200	26.537	153.2	-.486	226
250	8.41	8.38	34.219	26.603	147.3	-.504	251	250	8.41	8.38	34.212	26.597	147.8	-.523	251
275	8.26	8.23	34.245	26.646	143.5	-.541	277	275	8.21	8.18	34.225	26.638	144.3	-.561	277
300	8.04	8.01	34.240	26.676	141.1	-.577	302	300	7.97	7.94	34.234	26.681	140.5	-.596	302
350	7.73	7.70	34.257	26.735	136.1	-.646	352	350	7.68	7.65	34.252	26.739	135.8	-.665	352
400	7.24	7.20	34.258	26.807	129.9	-.713	403	400	7.30	7.26	34.260	26.800	130.6	-.732	403
450	6.95	6.92	34.279	26.862	125.1	-.776	453	450	6.77	6.73	34.280	26.889	122.4	-.795	453
500	6.47	6.42	34.312	26.955	116.7	-.836	503	500	6.47	6.42	34.309	26.952	116.9	-.854	503

STATION 93 40		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 40	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM			
32 30.8 N	118 12.8 W	30/05/81		0117 GMT	1664 M		32 30.8 N	118 13.2 W	30/05/81		0448 GMT	1664 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	18.11	18.11	33.634	24.200	371.0	.000	0	0	18.03	18.03	33.635	24.220	369.0	.000	0
10	18.09	18.09	33.622	24.197	371.7	.037	10	10	17.65	17.65	33.578	24.270	364.7	.037	10
20	16.88	16.88	33.495	24.389	353.6	-.073	20	20	14.48	14.48	33.490	24.921	302.9	-.070	20
30	14.62	14.62	33.573	24.956	299.9	-.106	30	30	13.17	13.17	33.521	25.215	275.1	-.099	30
40	13.44	13.43	33.941	25.177	279.1	-.134	40	40	11.93	11.92	33.550	25.478	250.3	-.125	40
50								50	11.13	11.12	33.574	25.644	234.8	-.149	50
75								75	10.10	10.09	33.758	25.967	204.5	-.203	75
100								100	9.87	9.86	33.880	26.102	192.2	-.253	100
125								125	9.48	9.47	33.985	26.249	178.7	-.301	126
150								150	9.12	9.10	34.060	26.366	168.0	-.344	151
175								175	8.98	8.96	34.140	26.451	160.4	-.385	176
200								200	8.58	8.56	34.140	26.514	154.8	-.424	201
225								225	8.38	8.36	34.148	26.552	151.6	-.462	226
250								250	8.24	8.21	34.181	26.599	147.5	-.499	251
275								275	8.20	8.17	34.210	26.628	145.2	-.537	277
300								300	8.01	7.98	34.219	26.664	142.2	-.572	302
350								350	7.60	7.57	34.230	26.733	136.3	-.641	352
400								400	7.22	7.18	34.254	26.806	129.9	-.709	403
450								450	6.88	6.84	34.267	26.864	124.9	-.772	453
500								500	6.47	6.42	34.303	26.948	117.3	-.832	503

STATION 93 40		RV DAVID STARR JORDAN						CALCOFI CRUISE 8105						STATION 93 50	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM		LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM			
32 30.8 N	118 12.8 W	30/05/81		0825 GMT	1664 M		32 10.8 N	118 53.6 W	30/05/81		1445 GMT	1479 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.93	17.93	33.606	24.223	368.8	.000	0	0	16.12	16.12	33.620	24.660	327.2	.000	0
10	17.93	17.93	33.589	24.210	370.3	.037	10	10	16.13	16.13	33.612	24.652	328.2	.033	10
20	16.51	16.51	33.524	24.498	343.3	-.072	20	20	14.66	14.66	33.544	24.924	302.6	-.064	20
30	14.85	14.85	33.389	24.764	318.1	-.105	30	30	13.41	13.41	33.616	25.240	272.8	-.093	30
40	14.01	14.00	33.455	24.993	296.6	-.136	40	40	13.00	12.99	33.606	25.315	265.9	-.119	40
50	12.00	11.99	33.462	25.396	258.3	-.164	50	50	12.26	12.25	33.524	25.395	258.4	-.146	50
75	10.47	10.46	33.665	25.831	217.4	-.223	75	75	10.24	10.23	33.675	25.879	212.9	-.204	75
100	9.85	9.84	33.812	26.052	196.9	-.274	100	100	9.69	9.68	33.789	26.060	196.1	-.255	100
125	9.40	9.39	33.938	26.225	181.0	-.323	126	125	9.18	9.17	33.944	26.265	177.1	-.303	126
150	9.19	9.17	34.009	26.315	172.9	-.367	151	150	8.80	8.78	34.015	26.381	166.5	-.346	151
175	9.00	8.98	34.060	26.385	166.6	-.409	176	175	8.60	8.58	34.065	26.452	160.2	-.386	176
200	8.74	8.72	34.112	26.467	159.2	-.450	201	200	8.42	8.40	34.083	26.494	156.6	-.426	201
225	8.41	8.39	34.117	26.522	154.4	-.489	226	225	8.12	8.10	34.122	26.570	149.7	-.464	226
250	8.18	8.15	34.141	26.577	149.7	-.526	251	250	7.79	7.77	34.129	26.625	144.9	-.500	251
275	8.23	8.20	34.188	26.606	147.3	-.565	277	275	7.56	7.53	34.140	26.667	141.2	-.537	277
300	7.98	7.95	34.204	26.656	142.9	-.601	302	300	7.29	7.26	34.144	26.708	137.5	-.572	302
350	7.53	7.50	34.214	26.730	136.4	-.670	352	350	6.88	6.85	34.174	26.789	130.4	-.638	352
400	7.27	7.23	34.228	26.779	132.5	-.738	403	400	6.60	6.56	34.195	26.844	125.7	-.703	403
450	6.81	6.77	34.253	26.862	125.0	-.802	453	450	6.24	6.20	34.228	26.917	119.2	-.764	453
500	6.51	6.46	34.279	26.923	119.7	-.863	503	500	5.97	5.93	34.273	26.988	112.9	-.821	503



STATION 93 60		RV DAVID STARR JORDAN							CALCOFI CRUISE 8105							STATION 93 60	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		
31 50.8 N	119 34.3 W	31/05/81		0105 GMT		1949 M			31 51.0 N	119 34.8 W	31/05/81		0430 GMT		1949 M		
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
340	26 KT	320	06 05 2	1014.6 MB	15.9 C	14.5 C	8/8 ST										
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR		M	DEG C	DEG C		THETA			D.BAR	
0	15.04	15.04	33.563	24.856	308.5	.000	0		0	15.05	15.05	33.589	24.874	306.8	.000	0	
10	15.01	15.01	33.588	24.883	306.3	.031	10		10	15.04	15.04	33.583	24.872	307.3	.031	10	
20	14.93	14.93	33.576	24.891	305.8	.061	20		20	14.98	14.98	33.580	24.883	306.5	.061	20	
30	14.10	14.10	33.632	25.111	285.1	.090	30		30	14.17	14.17	33.631	25.095	286.6	.091	30	
40	13.46	13.46	33.600	25.218	275.2	.118	40		40	13.59	13.58	33.630	25.215	275.5	.119	40	
50	13.11	13.10	33.610	25.296	268.0	.145	50		50	13.10	13.09	33.586	25.280	269.5	.146	50	
75	11.47	11.46	33.550	25.564	242.9	.209	75		75	11.46	11.45	33.553	25.568	242.6	.209	75	
100	10.16	10.15	33.669	25.888	212.5	.266	100		100	10.14	10.13	33.669	25.891	212.2	.266	100	
125	9.39	9.38	33.819	26.133	189.6	.318	126		125	9.38	9.37	33.804	26.123	190.6	.318	126	
150	8.89	8.87	33.902	26.279	176.2	.363	151		150	8.78	8.76	33.938	26.324	171.9	.363	151	
175	8.62	8.60	34.016	26.410	164.1	.405	176		175	8.66	8.64	33.978	26.375	167.5	.405	176	
200	8.24	8.22	34.049	26.494	156.5	.445	201		200	8.42	8.40	34.032	26.454	160.4	.446	201	
225	7.92	7.90	34.064	26.554	151.1	.483	226		225	8.06	8.04	34.046	26.520	154.5	.485	226	
250	7.52	7.50	34.040	26.594	147.6	.520	251		250	7.68	7.66	34.034	26.566	150.4	.523	251	
275	7.30	7.27	34.056	26.637	143.8	.558	277		275	7.31	7.28	34.058	26.637	143.8	.561	277	
300	7.17	7.14	34.061	26.660	142.0	.593	302		300	7.27	7.24	34.111	26.685	139.6	.596	302	
350	7.02	6.99	34.167	26.765	132.8	.662	352		350	6.89	6.86	34.167	26.782	131.0	.663	352	
400	6.65	6.61	34.181	26.826	127.5	.728	403		400	6.70	6.66	34.197	26.832	127.0	.729	403	
450	6.28	6.24	34.247	26.927	118.3	.788	453		450	6.29	6.25	34.247	26.926	118.4	.789	453	
500	6.06	6.02	34.305	27.002	111.8	.846	503		500	5.89	5.85	34.305	27.023	109.6	.846	503	

STATION 93 60		RV DAVID STARR JORDAN							CALCOFI CRUISE 8105							STATION 93 60	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		
31 50.8 N	119 34.1 W	31/05/81		1206 GMT		1949 M			31 50.7 N	119 34.0 W	31/05/81		1727 GMT		1949 M		
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR		M	DEG C	DEG C		THETA			D.BAR	
0	14.93	14.93	33.597	24.906	303.7	.000	0		0	14.87	14.87	33.686	24.988	295.9	.000	0	
10	14.94	14.94	33.590	24.899	304.7	.030	10		10	14.87	14.87	33.679	24.983	296.7	.030	10	
20	14.93	14.93	33.579	24.893	305.6	.061	20		20	14.83	14.83	33.674	24.988	296.5	.059	20	
30	14.86	14.86	33.575	24.906	304.6	.091	30		30	13.82	13.82	33.634	25.171	279.4	.088	30	
40	13.97	13.96	33.585	25.102	286.2	.120	40		40	13.15	13.14	33.588	25.271	270.1	.115	40	
50	13.59	13.58	33.605	25.196	277.6	.149	50		50	12.50	12.49	33.630	25.431	255.1	.141	50	
75	11.72	11.71	33.539	25.509	248.2	.214	75		75	11.16	11.15	33.661	25.706	229.4	.201	75	
100	10.25	10.24	33.592	25.813	219.7	.272	100		100	10.06	10.05	33.759	25.975	204.3	.255	100	
125	9.42	9.41	33.798	26.112	191.6	.325	126		125	9.38	9.37	33.904	26.202	183.2	.305	126	
150	8.86	8.84	33.908	26.288	175.3	.371	151		150	8.86	8.84	34.011	26.369	167.7	.349	151	
175	8.60	8.58	33.982	26.387	166.4	.413	176		175	8.59	8.57	34.089	26.472	158.2	.389	176	
200	8.36	8.34	34.019	26.453	160.5	.454	201		200	8.36	8.34	34.122	26.534	152.8	.428	201	
225	7.94	7.92	34.026	26.521	154.2	.493	226		225	7.92	7.90	34.112	26.592	147.5	.465	226	
250	7.72	7.70	34.034	26.560	150.9	.531	251		250	7.59	7.57	34.132	26.656	141.8	.501	251	
275	7.42	7.39	34.039	26.607	146.7	.569	277		275	7.46	7.43	34.168	26.703	137.7	.537	277	
300	7.20	7.17	34.082	26.672	140.8	.605	302		300	7.12	7.09	34.206	26.781	130.5	.571	302	
350	7.09	7.06	34.124	26.721	137.0	.674	352		350	7.02	6.99	34.259	26.837	126.0	.634	352	
400	6.67	6.63	34.154	26.802	129.8	.741	403		400	6.56	6.52	34.286	26.921	118.5	.696	403	
450	6.36	6.32	34.214	26.891	121.8	.804	453		450	6.32	6.28	34.347	27.001	111.4	.753	453	
500	6.07	6.03	34.251	26.958	115.9	.863	503		500	6.05	6.01	34.384	27.065	105.8	.807	503	

STATION 93 60		RV DAVID STARR JORDAN							CALCOFI CRUISE 8105							STATION 93 60	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM			LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER		BOTTOM		
31 50.8 N	119 34.3 W	31/05/81		2235 GMT		1949 M			31 50.8 N	119 34.2 W	01/06/81		0440 GMT		1949 M		
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR		M	DEG C	DEG C		THETA			D.BAR	
0	14.73	14.73	33.631	24.976	297.1	.000	0		0	14.59	14.59	33.585	24.970	297.6	.000	0	
10	14.74	14.74	33.622	24.967	298.2	.030	10		10	14.59	14.59	33.569	24.958	299.1	.030	10	
20	14.72	14.72	33.614	24.966	298.7	.059	20		20	14.57	14.57	33.565	24.959	299.2	.059	20	
30	14.69	14.69	33.980	24.946	300.8	.089	30		30	14.57	14.57	33.581	24.973	298.3	.089	30	
40	13.40	13.39	33.524	25.171	279.6	.118	40		40	13.70	13.69	33.573	25.148	281.8	.118	40	
50	13.28	13.27	33.594	25.250	272.4	.146	50		50	13.19	13.18	33.554	25.237	273.6	.146	50	
75	11.31	11.30	33.576	25.613	238.3	.209	75		75	11.14	11.13	33.540	25.616	238.0	.209	75	
100	10.05	10.04	33.699	25.930	208.5	.265	100		100	10.10	10.09	33.660	25.891	212.2	.265	100	
125	9.24	9.23	33.862	26.191	184.1	.315	126		125	9.51	9.50	33.768	26.074	195.3	.318	126	
150	8.77	8.75	33.960	26.343	170.1	.359	151		150	8.87	8.85	33.899	26.279	176.1	.364	151	
175	8.58	8.56	34.026	26.424	162.8	.401	176		175	8.58	8.56	33.988	26.395	165.6	.407	176	
200	8.45	8.43	34.066	26.476	158.3	.441	201		200	8.36	8.34	34.039	26.469	159.0	.447	201	
225	8.08	8.06	34.098	26.557	150.9	.479	226		225	8.10	8.08	34.056	26.521	154.3	.486	226	
250	7.65	7.63	34.068	26.597	147.4	.516	251		250	7.64	7.62	34.051	26.585	148.5	.523	251	
275	7.32	7.29	34.082	26.655	142.1	.553	277		275	7.28	7.25	34.072	26.653	142.3	.561	277	
300	7.22	7.19	34.113	26.694	138.8	.588	302		300	7.13	7.10	34.107	26.702	138.0	.596	302	
350	7.03	7.00	34.184	26.776	131.7	.655	352		350	6.89	6.86	34.170	26.785	130.8	.662	352	
400	6.49	6.45	34.225	26.882	122.0	.720	403		400	6.52	6.48	34.205	26.862	123.9	.727	403	
450	6.21	6.17	34.284	26.965	114.6	.778	453		450	6.32	6.28	34.260	26.932	117.9	.787	453	
500	5.95	5.91	34.344	27.046	107.5	.833	503		500	6.06	6.02	34.310	27.006	111.			



STATION 93 60 RV DAVID STARR JORDAN

CALCOFT CRUISE 8105

STATION 93 60

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 50.9 N 119 34.3 W 01/06/81 1204 GMT 1949 MLATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 50.8 N 119 34.1 W 01/06/81 1708 GMT 1949 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.64	14.64	33.574	24.951	299.4	.000	0
10	14.64	14.64	33.576	24.953	299.6	.030	10
20	14.63	14.63	33.566	24.948	300.3	.060	20
30	14.60	14.60	33.586	24.970	298.6	.090	30
40	13.87	13.86	33.610	25.142	282.4	.118	40
50	13.31	13.30	33.652	25.289	268.7	.146	50
75	11.72	11.71	33.538	25.509	248.2	.210	75
100	10.36	10.35	33.574	25.780	222.8	.269	100
125	9.48	9.47	33.780	26.088	193.9	.323	126
150	8.89	8.87	33.893	26.271	176.9	.369	151
175	8.59	8.57	33.983	26.389	166.1	.411	176
200	8.45	8.43	34.045	26.460	159.9	.452	201
225	7.99	7.97	34.043	26.527	153.7	.491	226
250	7.57	7.55	34.045	26.590	147.9	.528	251
275	7.44	7.41	34.058	26.619	145.6	.566	277
300	7.24	7.21	34.077	26.663	141.8	.602	302
350	7.03	7.05	34.164	26.754	133.9	.670	352
400	6.64	6.60	34.216	26.855	124.7	.736	407
450	6.30	6.26	34.257	26.932	117.8	.796	453
500	6.02	5.98	34.301	27.004	111.5	.853	503

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	14.63	14.63	33.567	24.948	299.7	.000	0
10	14.63	14.63	33.564	24.946	300.3	.030	10
20	14.60	14.60	33.574	24.960	299.1	.060	20
30	14.51	14.51	33.559	24.968	295.7	.089	30
40	13.87	13.86	33.636	25.162	280.5	.118	40
50	13.30	13.29	33.593	25.245	272.9	.146	50
75	11.10	11.09	33.561	25.639	235.7	.209	75
100	9.99	9.98	33.618	25.877	213.6	.265	100
125	9.34	9.33	33.876	26.147	188.3	.317	126
150	8.93	8.91	33.895	26.267	177.3	.362	151
175	8.64	8.62	33.952	26.357	169.2	.405	176
200	8.50	8.48	34.020	26.432	162.5	.447	201
225	8.19	8.17	34.058	26.510	155.5	.484	226
250	7.77	7.75	34.041	26.558	151.1	.524	251
275	7.40	7.37	34.075	26.638	143.7	.562	277
300	7.16	7.13	34.096	26.689	139.2	.597	302
350	7.03	7.00	34.165	26.762	133.1	.665	352
400	6.67	6.63	34.205	26.842	126.0	.730	403
450	6.35	6.31	34.260	26.929	118.3	.791	453
500	6.08	6.04	34.296	26.992	112.7	.848	503

STATION 93 70 RV DAVID STARR JORDAN

CALCOFT CRUISE 8105

STATION 93 70

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 30.8 N 120 14.8 W 26/05/81 0345 GMT 4022 MLATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 10.8 N 120 55.2 W 25/05/81 2150 GMT 3926 MWIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
320 14 KT 1014.6 MB 15.9 C 14.8 CWIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
310 13 KT 330 03 04 2 1015.9 MB 17.8 C 15.9 C 8/8 ST

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.69	15.69	33.562	24.712	322.2	.000	0
10	15.48	15.48	33.535	24.739	320.0	.032	10
20	14.76	14.76	33.561	24.916	303.4	.063	20
30	14.45	14.45	33.541	24.967	298.8	.093	30
40	13.68	13.67	33.459	25.064	289.8	.122	40
50	13.20	13.19	33.501	25.194	277.7	.151	50
75	11.63	11.62	33.497	25.493	249.7	.216	75
100	10.46	10.45	33.570	25.760	224.8	.275	100
125	9.73	9.72	33.699	25.984	203.9	.331	126
150	9.24	9.22	33.807	26.149	188.6	.379	151
175	8.89	8.87	33.878	26.260	178.5	.425	176
200	8.57	8.55	33.958	26.373	169.1	.468	201
225	8.24	8.22	34.016	26.469	159.3	.509	226
250	7.97	7.94	34.045	26.532	153.7	.548	251
275	7.70	7.67	34.070	26.592	148.3	.587	277
300	7.29	7.26	34.051	26.635	144.4	.623	302
350	6.81	6.78	34.119	26.755	133.5	.692	352
400	6.47	6.43	34.201	26.866	123.6	.757	403
450	6.14	6.10	34.252	26.949	116.1	.816	453
500	5.80	5.76	34.293	27.024	109.3	.872	503

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.35	16.35	33.574	24.572	335.5	.000	0
10	16.29	16.29	33.564	24.579	335.3	.033	10
20	16.24	16.24	33.557	24.585	334.9	.067	20
30	16.23	16.23	33.549	24.582	335.6	.100	30
40	16.22	16.21	33.537	24.575	336.6	.134	40
50	15.14	15.13	33.413	24.721	322.9	.166	50
75	13.13	13.12	33.454	25.172	280.4	.242	75
100	11.43	11.42	33.489	25.524	247.3	.307	100
125	9.95	9.94	33.595	25.866	215.1	.367	126
150	9.28	9.26	33.702	26.060	197.0	.418	151
175	8.70	8.68	33.827	26.250	179.3	.465	176
200	8.42	8.40	33.896	26.347	170.5	.508	201
225	8.10	8.08	33.940	26.430	162.9	.550	226
250	7.88	7.86	33.958	26.477	158.8	.590	251
275	7.50	7.47	33.976	26.546	152.5	.630	277
300	7.06	7.03	34.002	26.629	144.9	.667	302
350	6.74	6.71	34.076	26.731	135.8	.737	352
400	6.34	6.30	34.120	26.819	127.8	.802	402
450	6.01	5.97	34.169	26.900	120.6	.865	453
500	5.78	5.74	34.243	26.987	112.8	.923	503

STATION 93 90 RV DAVID STARR JORDAN

CALCOFT CRUISE 8105

STATION 93 100

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
30 50.8 N 121 35.4 W 25/05/81 1449 GMT 4117 MLATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
30 30.8 N 122 15.5 W 25/05/81 0900 GMT 4117 MWIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
330 14 KT 340 03 05 4 1015.2 MB 16.3 C 15.3 C R/FWIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
340 15 KT 1016.3 MB 15.2 C 15.0 C

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.16	16.16	33.538	24.588	334.0	.000	0
10	16.16	16.16	33.531	24.583	334.8	.033	10
20	16.16	16.16	33.522	24.576	335.8	.067	20
30	16.15	16.16	33.517	24.573	336.4	.100	30
40	16.14	16.13	33.501	24.565	337.4	.134	40
50	15.43	15.42	33.517	24.737	321.4	.167	50
75	13.43	13.42	33.405	25.074	289.8	.243	75
100	11.38	11.37	33.463	25.513	248.4	.310	100
125	9.85	9.84	33.605	25.891	212.7	.369	126
150	9.21	9.19	33.725	26.090	194.2	.420	151
175	8.72	8.70	33.853	26.267	177.7	.466	176
200	8.32	8.30	33.931	26.390	166.4	.509	201
225	8.08	8.06	33.962	26.451	161.0	.549	226
250	7.62	7.60	33.985	26.536	153.1	.588	251
275	7.13	7.10	33.990	26.609	146.3	.627	277
300	6.87	6.84	33.998	26.651	142.6	.663	302
350	6.24	6.21	34.031	26.760	132.5	.731	352
400	6.24	6.20	34.155	26.859	123.9	.795	402
450	5.96	5.92	34.217	26.944	116.4	.856	453
500	5.68	5.64	34.277	27.027	109.0	.911	503

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.97	15.97	33.499	24.601	332.8	.000	0
10	15.98	15.98	33.487	24.590	334.2	.033	10
20	15.97	15.97	33.475	24.583	335.1	.067	20
30	15.99	15.99	33.467	24.573	336.4	.100	30
40	16.11	16.10	33.497	24.569	337.1	.134	40
50	16.11	16.10	33.500	24.572	337.2	.167	50
75	16.42	16.41	33.826	24.752	320.8	.249	75
100	13.88	13.87	33.523	25.074	290.5	.325	100
125	11.53	11.51	33.491	25.508	249.5	.395	126
150	10.24	10.22	33.597	25.819	220.2	.453	151
175	9.33	9.31	33.744	26.085	195.1	.505	176
200	8.84	8.82	33.821	26.224	182.4	.552	201
225	8.40	8.38	33.906	26.359	169.9	.596	226
250	8.04	8.01	33.951	26.448	161.7	.637	251
275	7.64	7.61	33.962	26.516	155.5	.676	276
300	7.24	7.21	33.975	26.583	149.3	.716	302
350	6.77	6.74	34.038	26.697	139.0	.787	352
400	6.34	6.30	34.117	26.816	128.1	.853	402
450	5.81	5.77	34.150	26.910	119.4	.916	453
500	5.52	5.48	34.217	26.999	111.4	.973	503



STATION 97 30 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 97 40

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
32 15.4 N		117 08.8 W		02/06/81		1149 GMT		54 M		31 55.4 N		117 49.5 W		02/06/81		2053 GMT		1202 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS												
250	05 KT			1011.5 MB	17.2 C	14.9 C													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS												
M	DEG C	DEG C		THETA			D.BAR												
0	18.68	18.68	33.687	24.100	380.5	.000	0												
10	15.51	15.51	33.457	24.672	326.3	.035	10												
20	13.90	13.90	33.536	25.078	287.9	.066	20												
30	12.86	12.86	33.560	25.307	266.4	.093	30												
40	11.35	11.35	33.679	25.685	230.6	.118	40												
44	11.23	11.22	33.678	25.706	228.7	.127	44												
0	16.53	16.53	33.617	24.563	336.4	.000	0												
10	16.35	16.35	33.587	24.582	334.9	.033	10												
20	14.92	14.92	33.572	24.890	305.9	.065	20												
30	13.92	13.92	33.531	25.070	288.9	.095	30												
40	13.22	13.21	33.496	25.186	278.2	.123	40												
50	12.12	12.11	33.480	25.388	259.2	.150	50												
75	10.90	10.89	33.530	25.651	234.6	.211	75												
100	10.13	10.12	33.705	25.921	209.4	.267	100												
125	9.46	9.45	33.783	26.094	193.4	.319	126												
150	8.92	8.90	33.924	26.291	175.0	.364	151												
175	8.54	8.52	34.026	26.430	162.2	.406	176												
200	8.31	8.29	34.057	26.490	156.9	.446	201												
225	8.14	8.12	34.122	26.567	150.0	.484	226												
250	8.14	8.11	34.175	26.609	146.5	.521	251												
275	8.06	8.03	34.190	26.633	144.7	.558	277												
300	7.84	7.81	34.201	26.675	141.1	.594	302												
350	7.39	7.36	34.254	26.781	131.5	.661	352												
400	6.92	6.88	34.258	26.851	125.4	.727	403												
450	6.50	6.46	34.275	26.921	119.1	.787	453												
500	6.20	6.16	34.321	26.996	112.4	.845	503												

STATION 97 50 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 97 60

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
31 35.4 N		118 30.1 W		03/06/81		0415 GMT		2509 M		31 15.4 N		119 10.5 W		03/06/81		1148 GMT		3832 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS												
330	19 KT			1012.9 MB	15.0 C	13.5 C													
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS												
M	DEG C	DEG C		THETA			D.BAR												
0	16.20	16.20	33.640	24.657	327.4	.000	0												
10	16.17	16.17	33.612	24.643	329.1	.033	10												
20	15.28	15.28	33.542	24.788	315.5	.065	20												
30	14.34	14.34	33.498	24.957	299.7	.095	30												
40	14.21	14.20	33.554	25.028	293.3	.125	40												
50	13.70	13.69	33.540	25.123	284.5	.154	50												
75	11.32	11.31	33.515	25.564	242.9	.219	75												
100	10.55	10.54	33.588	25.758	224.9	.277	100												
125	9.82	9.81	33.688	25.960	206.1	.333	126												
150	9.30	9.28	33.791	26.126	190.7	.383	151												
175	8.77	8.75	33.901	26.297	174.9	.428	176												
200	8.39	8.37	33.952	26.396	165.9	.470	201												
225	8.22	8.20	33.982	26.445	161.6	.511	226												
250	7.91	7.89	34.056	26.550	152.0	.550	251												
275	7.69	7.66	34.086	26.605	147.0	.588	277												
300	7.44	7.41	34.112	26.662	141.9	.624	302												
350	6.91	6.88	34.139	26.758	133.4	.693	352												
400	6.63	6.59	34.202	26.845	125.6	.758	403												
450	6.23	6.19	34.238	26.927	118.3	.819	453												
500	5.97	5.93	34.303	27.011	110.8	.876	503												
0	16.37	16.37	33.587	24.577	335.0	.000	0												
10	16.38	16.38	33.578	24.569	336.2	.033	10												
20	16.38	16.38	33.572	24.564	336.9	.067	20												
30	16.38	16.38	33.569	24.563	337.4	.101	30												
40	16.37	16.36	33.562	24.560	338.0	.134	40												
50	16.17	16.16	33.544	24.592	335.2	.168	50												
75	14.31	14.30	33.515	24.978	299.1	.247	75												
100	12.29	12.28	33.477	25.354	263.6	.317	100												
125	10.81	10.79	33.623	25.740	227.3	.380	126												
150	9.79	9.77	33.668	25.950	207.6	.434	151												
175	9.33	9.31	33.744	26.085	195.1	.484	176												
200	9.06	9.04	33.937	26.280	177.1	.530	201												
225	8.70	8.68	34.008	26.393	166.8	.573	226												
250	8.03	8.00	34.004	26.491	157.6	.613	251												
275	7.72	7.69	34.032	26.559	151.5	.653	277												
300	7.44	7.41	34.033	26.600	147.8	.691	302												
350	7.01	6.98	34.080	26.698	139.1	.762	352												
400	6.66	6.62	34.140	26.793	130.6	.829	402												
450	6.57	6.53	34.256	26.896	121.5	.892	453												
500	6.17	6.13	34.296	26.981	113.9	.951	503												

STATION 97 70 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 97 80

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
30 55.4 N		119 50.7 W		03/06/81		1938 GMT		3263 M		30 35.4 N		120 30.8 W		04/06/81		0218 GMT		4022 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS												
340	24 KT	330 05 07	1	1012.2 MB	17.7 C	15.8 C	5/R CU												
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS												
M	DEG C	DEG C		THETA			D.BAR												
0	17.13	17.13	33.745	24.521	340.4	.000	0												
10	17.11	17.11	33.740	24.523	340.6	.034	10												
20	17.09	17.09	33.735	24.524	340.7	.068	20												
30	17.08	17.08	33.726	24.520	341.5	.102	30												
40	17.06	17.05	33.724	24.523	341.5	.136	40												
50	17.04	17.03	33.707	24.515	342.6	.170	50												
75	15.26	15.25	33.527	24.783	317.7	.252	75												
100	13.35	13.34	33.590	25.234	275.3	.326	100												
125	11.61	11.59	33.626	25.598	241.0	.393	126												
150	10.48	10.46	33.720	25.874	215.1	.449	151												
175	9.56	9.54	33.786	26.081	195.7	.500	176												
200	9.11	9.09	33.908	26.249	180.1	.547	201												
225	8.86	8.84	34.045	26.397	166.5	.590	226												
250	8.59	8.56	34.087	26.472	159.8	.631	251												
275	8.20	8.17	34.096	26.539	153.7	.670	276												
300	7.77	7.74	34.065	26.578	150.2	.709	302												
350	7.50	7.47	34.156	26.689	140.4	.781	352												
400	6.63	6.59	34.111	26.774	132.4	.849	402												
450	6.29	6.25	34.167	26.863	124.4	.914	453												
500	5.97	5.93	34.230	26.954	116.2	.973	503												
0	17.16	17.16	33.676	24.462	346.1	.000	0												
10	17.16	17.16	33.668	24.456	347.0	.035	10												
20	17.16	17.16	33.659	24.449	347.9	.069	20												
30	17.15	17.15	33.649	24.444	348.7	.104	30												
40	15.69	15.68	33.541	24.698	324.8	.137	40												
50	14.98	14.97	33.553	24.709	324.0	.170	50												
75	14.21	14.20	33.455	24.953	301.4	.248	75												
100	12.83	12.82	33.460	25.237	274.9	.319	100												
125	10.49	10.48	33.524	25.719	229.2	.384	126												
150	9.50	9.48	33.675	26.003	202.5	.438	151												
175	9.13	9.11	33.824	26.180	186.1	.486	176												
200	8.92	8.90	33.909	26.280	177.1	.532	201												
225	8.62	8.60	33.951	26.360	169.8	.575	226												
250	8.03	8.00	33.988	26.479	158.8	.615	251												
275	7.70	7.67	34.010	26.544	152.8	.654	276												
300	7.43	7.40	34.027	26.596	148.1	.693	302												
350	6.95	6.92	34.063	26.692	139.6	.764	352												
400	6.59	6.55	34.123	26.788	131.0	.831	402												
450	6.24	6.20	34.196	26.892	121.5	.895	453												
500	6.01	5.97	34.275	26.984	113.3	.954	503												



STATION 97 90 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 97 100

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM						
30 15.4 N		121 10.8 W		04/06/81		0843 GMT		4022 M		29 55.4 N		121 50.6 W		04/06/81		1441 GMT		4117 M						
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
340	19 KT			1011.5 MB	16.5 C	15.0 C		350	19 KT	330 06 06	1	1012.2 MB	17.5 C	16.0 C	5/2 AC									
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	
0	16.83	16.83	33.585	24.469	345.3	.000	0	0	16.31	16.31	33.502	24.526	339.9	.000	0	0	16.31	16.31	33.500	24.525	340.4	.034	10	
10	16.83	16.83	33.580	24.466	346.0	.034	10	10	16.31	16.31	33.491	24.518	341.3	.068	20	20	16.31	16.31	33.483	24.510	342.4	.102	30	
20	16.83	16.83	33.567	24.456	347.2	.069	20	20	16.31	16.31	33.473	24.504	343.5	.136	40	40	16.34	16.33	33.453	24.544	339.5	.136	40	
30	16.82	16.82	33.562	24.455	347.7	.104	30	30	16.32	16.32	33.453	24.544	339.5	.136	40	50	16.97	16.96	33.756	24.570	337.5	.170	50	
40	16.79	16.78	33.547	24.451	348.4	.139	40	40	16.34	16.33	33.533	24.544	339.5	.136	40	75	16.71	16.70	33.646	24.700	325.8	.252	75	
50	15.69	15.68	33.444	24.623	332.2	.177	50	50	15.58	15.56	33.912	25.010	297.0	.330	100	100	15.58	15.56	33.912	25.010	297.0	.330	100	
75	13.74	13.73	33.424	25.026	294.4	.250	75	125	12.94	12.92	33.743	25.435	256.8	.401	126	125	10.57	10.56	33.568	25.740	227.3	.384	124	
100	12.24	12.23	33.400	25.304	268.3	.320	100	150	11.51	11.49	33.682	25.661	235.6	.463	151	150	9.46	9.44	33.639	25.982	204.5	.438	151	
125	10.57	10.56	33.568	25.740	227.3	.384	124	175	10.22	10.20	33.704	25.907	212.4	.518	176	175	8.95	8.93	33.747	26.145	189.4	.487	176	
150	9.46	9.44	33.639	25.982	204.5	.438	151	200	9.37	9.35	33.760	26.092	195.1	.569	201	200	8.50	8.48	33.848	26.297	175.2	.532	201	
175	8.95	8.93	33.747	26.145	189.4	.487	176	225	8.77	8.75	33.846	26.255	179.9	.615	226	225	8.19	8.16	33.904	26.390	166.8	.575	226	
200	8.50	8.48	33.848	26.297	175.2	.532	201	250	8.37	8.34	33.905	26.363	169.9	.659	251	250	7.78	7.76	33.925	26.466	159.8	.615	251	
225	8.19	8.16	33.904	26.390	166.8	.575	226	275	7.94	7.91	33.935	26.451	161.9	.700	276	275	7.32	7.29	33.936	26.540	159.9	.654	276	
250	7.78	7.76	33.925	26.466	159.8	.615	251	300	7.45	7.42	33.962	26.543	153.2	.741	302	300	7.05	7.02	33.942	26.583	149.2	.693	302	
275	7.32	7.29	33.936	26.540	159.9	.654	276	350	6.75	6.73	33.991	26.661	142.4	.814	352	350	6.68	6.65	34.015	26.691	139.5	.765	352	
300	7.05	7.02	33.942	26.583	149.2	.693	302	400	6.42	6.38	34.078	26.775	132.0	.832	402	400	6.22	6.18	34.069	26.794	130.1	.832	402	
350	6.68	6.65	34.015	26.691	139.5	.765	352	450	6.03	5.99	34.147	26.880	122.5	.947	453	450	6.01	5.97	34.143	26.879	122.5	.895	453	
400	6.22	6.18	34.069	26.794	130.1	.832	402	500	5.78	5.74	34.205	26.957	115.6	1.006	503	500	5.91	5.87	34.248	26.975	114.1	.954	503	

STATION 100 30 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 100 40

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
31 41.2 N		116 46.6 W		06/06/81		1429 GMT		399 M		31 21.2 N		117 27.1 W		06/06/81		0734 GMT		2037 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
240	07 KT			1012.2 MB	18.1 C	16.8 C	7/8 ST	180	11 KT			1011.9 MB	18.0 C	16.5 C									
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	18.74	18.74	33.677	24.077	382.7	.000	0	0	16.97	16.97	33.608	24.454	346.8	.000	0	0	16.87	16.87	33.590	24.464	346.1	.035	10
10	18.56	18.56	33.644	24.097	381.2	.039	10	10	16.03	16.03	33.553	24.630	330.7	.063	20	20	15.76	15.76	33.539	24.680	326.2	.101	30
20	15.55	15.55	33.497	24.694	324.5	.072	20	20	15.62	15.61	33.533	24.707	323.9	.133	40	40	14.29	14.29	33.587	25.036	292.2	.104	30
30	14.29	14.29	33.587	25.036	292.2	.104	30	40	14.98	14.97	33.486	24.812	314.2	.165	50	50	12.50	12.49	33.561	25.378	259.9	.131	40
40	12.50	12.49	33.561	25.378	259.9	.131	40	50	12.73	12.72	33.445	25.244	273.5	.238	75	75	11.38	11.37	33.636	25.646	234.5	.156	50
50	11.38	11.37	33.636	25.646	234.5	.156	50	100	11.11	11.10	33.514	25.602	239.9	.302	100	100	10.25	10.24	33.827	25.995	201.8	.210	75
75	10.25	10.24	33.827	25.995	201.8	.210	75	125	10.03	10.02	33.633	25.883	213.6	.361	126	125	9.89	9.88	33.954	26.156	187.6	.308	126
100	10.00	9.99	33.916	26.108	191.6	.259	100	150	9.60	9.58	34.029	26.264	177.8	.354	151	150	9.60	9.58	34.029	26.264	177.8	.354	151
125	9.89	9.88	33.954	26.156	187.6	.308	126	175	9.29	9.27	34.122	26.387	166.5	.396	176	175	9.29	9.27	34.122	26.387	166.5	.396	176
150	9.60	9.58	34.029	26.264	177.8	.354	151	200	8.73	8.71	33.950	26.342	171.1	.511	201	200	8.73	8.71	33.950	26.342	171.1	.511	201
175	9.29	9.27	34.122	26.387	166.5	.396	176	225	8.46	8.44	33.986	26.412	164.8	.543	226	225	8.46	8.44	33.986	26.412	164.8	.543	226
200	8.73	8.71	33.950	26.342	171.1	.511	201	250	8.25	8.22	34.028	26.477	159.0	.583	251	250	8.25	8.22	34.028	26.477	159.0	.583	251
225	8.46	8.44	33.986	26.412	164.8	.543	226	275	7.87	7.87	34.078	26.569	150.6	.623	277	275	7.87	7.87	34.078	26.569	150.6	.623	277
250	8.25	8.22	34.028	26.477	159.0	.583	251	300	7.74	7.71	34.091	26.603	147.8	.660	302	300	7.74	7.71	34.091	26.603	147.8	.660	302
275	8.02	8.00	34.135	26.708	138.4	.731	352	350	7.25	7.22	34.135	26.708	138.4	.731	352	350	7.25	7.22	34.135	26.708	138.4	.731	352
300	7.25	7.22	34.135	26.708	138.4	.731	352	400	6.92	6.78	34.177	26.800	130.0	.798	402	400	6.92	6.78	34.177	26.800	130.0	.798	402
350	6.92	6.78	34.177	26.800	130.0	.798	402	450	6.49	6.45	34.230	26.887	122.4	.862	453	450	6.49	6.45	34.230	26.887	122.4	.862	453
400	6.49	6.45	34.230	26.887	122.4	.862	453	500	6.10	6.06	34.269	26.968	115.0	.921	503	500	6.10	6.06	34.269	26.968	115.0	.921	503

STATION 100 50 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 100 60

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
31 01.2 N		118 07.3 W		06/06/81		0024 GMT		1910 M		30 41.2 N		118 47.5 W		05/06/81		1717 GMT		2981 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
210	11 KT	200 02 03	1	1010.5 MB	19.0 C	17.3 C	7/8 ST	340	06 KT	300 03 07	2	1010.5 MB	18.5 C	17.0 C	8/8 ST								
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.59	17.59	33.589	24.292	362.2	.000	0	0	17.07	17.07	33.621	24.441	348.1	.000	0	0	17.07	17.07	33.621	24.441	348.1	.000	0
10	16.86	16.86	33.590	24.467	345.9	.035	10	10	16.92	16.92	33.616	24.472	345.4	.035	10	10	16.92	16.92	33.616	24.472	345.4	.035	10
20	16.67	16.67	33.582	24.505	342.6	.070	20	20	16.67	16.67	33.619	24.533	339.9	.069	20	20	16.67	16.67	33.619	24.533	339.		





STATION 103 60		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 103 70					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
30 06.9 N	118 24.7 W	08/06/81	1101 GMT	3546 M	29 46.9 N	119 04.4 W	08/06/81	1647 GMT	3452 M						
WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS				
330 14 KT			1012.5 MB	17.2 C 16.0 C		340 16 KT	320 03 05	2	1014.9 MB	18.5 C 17.0 C	8/8 ST				
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	18.21	18.21	33.747	24.262	365.1	.000	0	0	17.34	17.34	33.643	24.394	352.5	.000	0
10	17.71	17.71	33.722	24.365	355.6	.036	10	10	17.29	17.29	33.649	24.410	351.3	.035	10
20	17.66	17.66	33.712	24.370	355.4	.071	20	20	17.22	17.22	33.630	24.413	351.4	.070	20
30	17.61	17.61	33.703	24.373	355.5	.107	30	30	17.04	17.04	33.626	24.453	347.9	.105	30
40	15.53	15.52	33.643	24.812	314.0	.140	40	40	16.47	16.41	33.634	24.604	333.8	.139	40
50	13.61	13.60	33.634	25.214	275.8	.169	50	50	15.86	15.85	33.558	24.673	327.5	.172	50
75	12.11	12.10	33.986	25.472	251.7	.235	75	75	13.05	13.04	33.481	25.209	276.9	.247	75
100	10.79	10.78	33.634	25.752	225.6	.294	100	100	11.33	11.32	33.576	25.610	239.2	.311	100
125	9.44	9.43	33.792	26.104	192.4	.348	125	125	10.47	10.46	33.631	25.806	221.0	.371	125
150	9.27	9.25	33.968	26.270	177.2	.394	150	150	9.70	9.68	33.763	26.040	199.1	.423	150
175	10.20	10.18	34.312	26.385	167.2	.437	175	175	9.17	9.15	33.870	26.210	183.3	.470	175
200	9.89	9.87	34.320	26.444	162.0	.478	200	200	8.94	8.92	33.985	26.337	171.7	.515	200
225	9.60	9.57	34.312	26.486	158.4	.518	225	225	8.63	8.61	34.045	26.433	163.0	.556	225
250	9.31	9.28	34.307	26.530	154.6	.557	250	250	8.33	8.30	34.072	26.500	157.0	.596	250
275	8.26	8.23	34.180	26.595	148.4	.596	275	275	7.97	7.94	34.087	26.566	151.0	.634	275
300	8.23	8.20	34.253	26.658	142.9	.632	300	300	8.08	8.05	34.197	26.636	144.9	.672	300
350	7.16	7.13	34.168	26.746	134.7	.701	350	350	7.48	7.45	34.201	26.727	136.7	.742	350
400	6.78	6.74	34.229	26.847	125.6	.765	400	400	6.67	6.63	34.176	26.820	128.1	.808	400
450	6.56	6.52	34.296	26.929	118.4	.827	450	450	6.58	6.54	34.273	26.909	120.4	.871	450
500	6.34	6.29	34.357	27.007	111.6	.884	500	500	6.22	6.18	34.304	26.981	114.0	.929	500

STATION 103 80		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 103 90					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
29 26.9 N	119 44.1 W	08/06/81	2331 GMT	3832 M	29 06.9 N	120 23.6 W	09/06/81	0456 GMT	3738 M						
WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS				
340 19 KT	330 04 05	2	1015.2 MB	18.2 C 16.8 C	8/8 ST	360 19 KT			1016.6 MB	17.2 C 16.2 C					
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.74	17.74	33.633	24.290	362.4	.000	0	0	17.51	17.51	33.627	24.340	357.6	.000	0
10	17.72	17.72	33.626	24.290	362.8	.036	10	10	17.51	17.51	33.596	24.317	360.2	.036	10
20	17.66	17.66	33.613	24.294	362.7	.072	20	20	17.33	17.33	33.652	24.403	352.3	.071	20
30	17.33	17.33	33.624	24.382	354.6	.108	30	30	17.29	17.29	33.661	24.420	351.0	.106	30
40	16.81	16.80	33.551	24.434	350.0	.143	40	40	16.97	16.96	33.651	24.489	344.8	.141	40
50	15.79	15.78	33.447	24.603	334.1	.177	50	50	16.49	16.48	33.587	24.552	339.1	.175	50
75	14.82	14.81	33.453	24.822	314.0	.258	75	75	16.51	16.50	33.735	24.662	329.4	.258	75
100	13.07	13.06	33.456	25.186	279.7	.332	100	100	15.48	15.46	33.798	24.944	303.2	.337	100
125	11.24	11.22	33.511	25.576	243.0	.399	125	125	13.04	13.02	33.726	25.402	260.0	.410	125
150	10.46	10.44	33.664	25.834	218.9	.457	150	150	11.20	11.18	33.641	25.685	233.2	.471	150
175	9.59	9.57	33.765	26.060	197.7	.509	175	175	9.73	9.71	33.643	25.941	209.0	.526	175
200	9.02	9.00	33.874	26.237	181.2	.556	200	200	9.04	9.02	33.753	26.139	190.4	.576	200
225	8.54	8.52	33.956	26.376	168.3	.599	225	225	8.74	8.72	33.832	26.249	180.5	.622	225
250	8.09	8.06	33.972	26.457	160.9	.640	250	250	8.31	8.28	33.926	26.388	167.5	.665	250
275	7.70	7.67	34.009	26.544	152.8	.679	275	275	7.94	7.91	33.982	26.488	158.3	.706	275
300	7.41	7.38	34.028	26.600	147.8	.718	300	300	7.64	7.61	33.997	26.543	153.3	.746	300
350	6.72	6.69	34.043	26.707	138.0	.789	350	350	6.95	6.92	34.026	26.663	142.3	.819	350
400	6.34	6.30	34.122	26.820	127.7	.855	400	400	6.39	6.35	34.099	26.796	130.1	.887	400
450	5.92	5.88	34.183	26.922	118.4	.917	450	450	6.15	6.11	34.189	26.898	120.9	.950	450
500	5.73	5.69	34.275	27.019	109.7	.973	500	500	5.87	5.83	34.249	26.981	113.5	1.008	500

STATION 107 32		RV DAVID STARR JORDAN				CALCOFI CRUISE 8105				STATION 107 40					
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
30 27.5 N	116 09.8 W	11/06/81	0125 GMT	164 M	30 11.5 N	116 41.8 W	10/06/81	1810 GMT	2602 M						
WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS	WIND SPEED	WAVES	WEA	BAROMETER	DRY WET	CLOUDS				
300 06 KT	270 05 06	2	1010.2 MB	18.0 C 16.1 C	8/8 ST	270 09 KT	290 05 05	2	1011.2 MB	18.0 C 16.5 C	8/8 ST				
DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.48	17.48	33.652	24.367	355.1	.000	0	0	17.78	17.78	33.702	24.333	358.3	.000	0
10	15.41	15.41	33.482	24.713	322.4	.034	10	10	17.79	17.79	33.698	24.328	359.1	.036	10
20	12.85	12.85	33.549	25.300	266.8	.065	20	20	17.16	17.16	33.619	24.419	350.8	.071	20
30	12.04	12.04	33.983	25.483	249.7	.089	30	30	16.32	16.32	33.560	24.569	336.8	.105	30
40	11.58	11.58	33.660	25.628	236.0	.113	40	40	15.73	15.72	33.561	24.704	324.2	.138	40
50	11.36	11.35	33.698	25.698	229.6	.136	50	50	15.30	15.29	33.469	24.729	322.1	.170	50
75	10.74	10.73	33.754	25.854	215.3	.191	75	75	12.53	12.52	33.541	25.357	262.7	.243	75
100	10.38	10.37	33.823	25.971	204.8	.244	100	100	10.86	10.85	33.633	25.739	226.9	.304	100
125	10.12	10.11	33.889	26.067	196.1	.295	125	125	9.83	9.82	33.747	26.005	201.9	.360	125
150	9.72	9.70	33.991	26.214	182.6	.343	150	150	9.48	9.46	33.812	26.114	192.0	.409	150
175							175	175	9.05	9.03	33.951	26.292	175.4	.454	175
200							200	200	8.89	8.87	34.029	26.379	167.7	.497	200
225							225	225	8.52	8.50	34.084	26.480	158.5	.537	225
250							250	250	8.51	8.48	34.137	26.523	154.8	.576	250
275							275	275	8.38	8.35	34.180	26.577	150.1	.616	275
300							300	300	8.17	8.14	34.193	26.620	146.5	.652	300
350							350	350	7.65	7.62	34.208	26.708	138.6	.723	350
400							400	400	7.33	7.29	34.252	26.789	131.6	.790	400
450							450	450	6.68	6.64	34.239	26.869	124.3	.855	450
500							500	500	6.42	6.37	34.307	26.957	116.4	.915	500

STATION 107 50 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 107 60

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
29 51.5 N		117 21.6 W		10/06/81		1045 GMT		2602 M		29 31.5 N		118 01.3 W		10/06/81		0501 GMT		3546 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
280	19 KT			1009.8 MB	17.5 C	16.0 C																	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
290	20 KT			1011.9 MB	13.0 C	16.0 C																	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.60	17.60	33.683	24.362	355.6	.000	0	0	18.60	18.60	33.760	24.175	373.3	.000	0	0	18.57	18.57	33.755	24.179	373.3	.037	10
10	17.61	17.61	33.668	24.348	357.2	.036	10	20	18.27	18.27	33.683	24.199	371.8	.074	20	20	17.60	17.59	33.669	24.352	357.5	.111	30
20	17.33	17.33	33.602	24.365	355.9	.071	20	40	17.23	17.22	33.642	24.420	351.3	.146	40	40	16.31	16.30	33.612	24.491	344.5	.140	40
30	16.31	16.31	33.526	24.545	359.0	.106	30	50	15.69	15.68	33.640	24.774	317.9	.179	50	50	15.89	15.88	33.596	24.696	325.4	.174	50
40	14.95	14.94	33.528	24.850	310.2	.138	40	75	12.44	12.43	33.731	25.522	247.1	.250	75	75	12.61	12.60	33.574	25.367	261.8	.247	75
50	14.23	14.22	33.466	24.956	300.4	.168	50	100	10.49	10.48	33.792	25.927	208.9	.306	100	100	10.77	10.76	33.658	25.774	223.5	.308	100
75	12.38	12.37	33.536	25.382	260.3	.238	75	125	10.21	10.19	33.957	26.106	192.4	.358	125	125	9.97	9.96	33.954	26.330	189.9	.401	151
100	10.69	10.68	33.725	25.840	217.2	.298	100	150	9.60	9.65	34.049	26.268	177.5	.404	151	150	9.25	9.23	33.926	26.158	187.9	.411	151
125	10.21	10.20	33.819	25.997	202.8	.352	126	175	8.66	8.64	33.981	26.377	167.3	.447	176	175	8.91	8.88	34.029	26.312	173.7	.456	176
150	10.00	9.98	33.954	26.138	189.9	.401	151	200	8.33	8.31	33.999	26.442	161.5	.488	201	200	8.90	8.88	34.096	26.430	162.9	.498	201
175	9.60	9.58	33.980	26.226	182.0	.447	176	225	8.18	8.16	34.024	26.484	157.9	.528	226	225	8.54	8.52	34.128	26.511	155.5	.537	226
200	9.46	9.44	34.083	26.330	172.6	.491	201	250	7.86	7.84	34.038	26.543	152.6	.566	251	250	8.18	8.15	34.128	26.566	150.6	.575	251
225	9.21	9.19	34.136	26.412	165.2	.533	226	275	7.52	7.49	34.032	26.587	148.6	.603	276	275	7.73	7.70	34.130	26.635	144.3	.613	277
250	8.84	8.81	34.145	26.479	159.3	.573	251	300	7.27	7.23	34.276	26.816	128.9	.775	402	300	7.69	7.66	34.181	26.681	140.4	.649	302
275	8.34	8.31	34.114	26.531	154.4	.614	277	350	6.99	6.96	34.130	26.740	135.1	.756	352	350	7.30	7.27	34.233	26.778	131.8	.716	352
300	8.05	8.02	34.124	26.583	149.8	.651	302	400	6.72	6.65	34.158	26.803	129.7	.822	402	400	6.91	6.87	34.264	26.857	124.8	.780	402
350	7.69	7.66	34.169	26.672	142.1	.724	352	450	6.88	6.84	34.304	26.893	122.2	.839	453	450	6.50	6.46	34.291	26.933	118.0	.841	453
400	7.21	7.17	34.203	26.768	133.5	.792	402	500	6.26	6.22	34.287	26.962	115.7	.898	503	500	6.21	6.17	34.335	27.006	111.5	.898	503
450	7.10	7.06	34.261	26.829	128.4	.859	453																
500	7.00	6.95	34.360	26.921	120.5	.920	503																

STATION 107 70 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 107 80

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
29 11.5 N		118 40.8 W		09/06/81		2314 GMT		2981 M		28 51.5 N		119 20.2 W		09/06/81		1606 GMT		3738 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
280	18 KT	310 06 05	0	1013.2 MB	19.5 C	17.3 C	0/8																
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
310	20 KT	310 06 06	0	1014.6 MB	19.2 C	17.8 C	0/8																
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	18.24	18.24	33.729	24.241	367.1	.000	0	0	17.56	17.56	33.670	24.361	355.6	.000	0	0	17.55	17.55	33.662	24.358	356.3	.035	10
10	18.10	18.10	33.683	24.241	367.5	.037	10	20	17.22	17.22	33.663	24.438	349.0	.071	20	20	17.04	17.04	33.660	24.479	345.4	.107	30
20	17.04	17.04	33.639	24.462	346.6	.072	20	40	16.83	16.82	33.612	24.491	344.5	.140	40	40	17.06	17.05	33.720	24.521	341.8	.141	40
30	17.04	17.04	33.660	24.479	345.4	.107	30	50	16.51	16.50	33.573	24.536	340.6	.174	50	50	15.89	15.88	33.596	24.696	325.4	.174	50
40	17.06	17.05	33.720	24.521	341.8	.141	40	75	13.72	13.71	33.491	25.082	289.1	.252	75	75	12.61	12.60	33.574	25.367	261.8	.247	75
50	15.89	15.88	33.596	24.696	325.4	.174	50	100	12.47	12.46	33.601	25.416	257.8	.320	100	100	10.77	10.76	33.658	25.774	223.5	.308	100
75	12.61	12.60	33.574	25.367	261.8	.247	75	125	11.03	11.01	33.622	25.700	231.1	.384	126	125	9.97	9.96	33.926	26.158	187.9	.411	151
100	10.77	10.76	33.658	25.774	223.5	.308	100	150	10.08	10.06	33.819	26.019	201.2	.437	151	150	9.25	9.23	33.926	26.158	187.9	.411	151
125	9.97	9.96	33.926	26.158	187.9	.411	151	175	9.75	9.73	33.964	26.189	185.5	.485	176	175	9.31	9.29	34.029	26.312	173.7	.456	176
150	9.25	9.23	33.926	26.158	187.9	.411	151	200	9.16	9.14	34.064	26.364	169.3	.530	201	200	8.90	8.88	34.096	26.430	162.9	.498	201
175	9.31	9.29	34.029	26.312	173.7	.456	176	225	8.60	8.58	34.016	26.414	164.7	.571	226	225	8.54	8.52	34.128	26.511	155.5	.537	226
200	8.90	8.88	34.096	26.430	162.9	.498	201	250	7.94	7.91	33.995	26.497	156.9	.611	251	250	8.18	8.15	34.128	26.566	150.6	.575	251
225	8.54	8.52	34.128	26.511	155.5	.537	226	275	7.60	7.57	34.036	26.579	149.4	.649	276	275	7.73	7.70	34.130	26.635	144.3	.613	277
250	8.18	8.15	34.128	26.566	150.6	.575	251	300	7.40	7.37	34.079	26.642	143.9	.687	302	300	7.69	7.66	34.181	26.681	140.4	.649	302
275	7.73	7.70	34.130	26.635	144.3	.613	277	350	6.99	6.96	34.130	26.740	135.1	.756	352	350	7.30	7.27	34.233	26.778	131.8	.716	352
300	7.69	7.66	34.181	26.681	140.4	.649	302	400	6.69	6.65	34.158	26.803	129.7	.822	402	400	6.91	6.87	34.264	26.857	124.8	.780	402
350	7.30	7.27	34.233	26.778	131.8	.716	352	450	6.35	6.31	34.217	26.895	121.5	.885	453	450	6.50	6.46	34.291	26.933	118.0	.841	453
400	6.91	6.87	34.264	26.857	124.8	.780	402	500	5.81	5.77	34.243	26.984	113.2	.944	503	500	6.21	6.17	34.335	27.006	111.5	.898	503
450	6.50	6.46	34.291	26.933	118.0	.841	453																
500	6.21	6.17	34.335	27.006	111.5	.898	503																

STATION 107 90 RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 110 32.4

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
28 31.5 N		119 59.5 W		09/06/81		1003 GMT		4117 M		29 52.4 N		115 49.5 W		11/06/81		0804 GMT		47 M					
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
320	20 KT			1015.2 MB	17.2 C	16.5 C																	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS																
010	09 KT			1009.8 MB	17.0 C	16.0 C																	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS	DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR	M	DEG C	DEG C		THETA			D.BAR
0	17.84	17.84	33.653	24.281	363.3	.000	0	0	16.88	16.88	33.612	24.478	344.5	.000	0	0	15.16	15.16	33.522	24.799	314.2	.033	10
10	17.84	17.84	33.642	24.273	364.4	.036	10	20	13.28	13.28	33.528	25.198	276.5	.062	20	20	17.41	17.41	33.647	24.381	354.8	.108	30
20	17.47	17.47	33.618	24																			



STATION 110 40 RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 50

LATITUDE 29 37.2 N LONGITUDE 116 19.7 W DAY/MO/YR 11/06/81 MESSENGER 1332 GMT BOTTOM 2227 M

LATITUDE 29 17.2 N LONGITUDE 116 59.2 W DAY/MO/YR 11/06/81 MESSENGER 2048 GMT BOTTOM 2981 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
020 13 KT 310 05 06 2 1009.5 MB 17.0 C 15.5 C 8/8 STWIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
360 13 KT 330 05 05 2 1012.5 MB 18.7 C 16.6 C 8/8 ST

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.23	17.23	33.657	24.430	349.0	.000	0
10	17.14	17.14	33.642	24.441	348.4	.035	10
20	16.26	16.26	33.960	24.583	335.1	.069	20
30	15.04	15.04	33.531	24.833	311.6	.101	30
40	13.82	13.81	33.526	25.087	287.6	.131	40
50	12.90	12.89	33.552	25.293	268.2	.159	50
75	11.03	11.02	33.672	25.739	226.3	.220	75
100	10.04	10.03	33.947	26.125	190.0	.272	100
125	10.33	10.32	34.108	26.202	183.4	.320	126
150	9.73	9.71	34.107	26.303	174.2	.364	151
175	9.20	9.18	34.129	26.408	164.6	.407	176
200	8.99	8.97	34.197	26.495	156.8	.446	201
225	8.96	8.94	34.243	26.536	153.4	.485	226
250	8.75	8.72	34.249	26.574	150.2	.523	251
275	8.71	8.68	34.298	26.619	146.4	.561	277
300	8.28	8.25	34.252	26.649	143.7	.597	302
350	7.88	7.84	34.278	26.730	136.8	.667	352
400	7.44	7.40	34.304	26.815	129.3	.733	402
450	6.91	6.87	34.335	26.913	120.3	.796	453
500	6.53	6.48	34.369	26.992	113.3	.854	503

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.82	17.82	33.690	24.314	360.1	.000	0
10	17.73	17.73	33.694	24.339	358.0	.036	10
20	17.69	17.69	33.675	24.335	358.8	.072	20
30	16.53	16.53	33.651	24.591	334.7	.106	30
40	13.32	13.31	33.691	25.317	265.7	.136	40
50	11.84	11.83	33.659	25.580	240.9	.161	50
75	10.60	10.59	33.791	25.907	210.2	.217	75
100	10.04	10.03	33.918	26.103	192.1	.267	100
125	9.59	9.58	33.989	26.234	180.2	.315	126
150	9.33	9.31	34.091	26.356	169.0	.359	151
175	9.13	9.11	34.119	26.411	164.2	.400	176
200	8.88	8.86	34.149	26.475	158.7	.440	201
225	8.78	8.76	34.168	26.506	156.2	.479	226
250	8.52	8.49	34.195	26.567	150.7	.518	251
275	8.20	8.17	34.180	26.604	147.5	.556	277
300	8.00	7.97	34.206	26.655	143.0	.592	302
350	7.56	7.53	34.228	26.737	135.9	.661	352
400	7.13	7.09	34.239	26.807	129.7	.727	402
450	6.61	6.57	34.270	26.902	121.0	.791	453
500	6.28	6.24	34.322	26.987	113.4	.849	503

STATION 110 60 RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 70

LATITUDE 28 57.2 N LONGITUDE 117 38.7 W DAY/MO/YR 12/06/81 MESSENGER 0300 GMT BOTTOM 7642 M

LATITUDE 28 37.2 N LONGITUDE 118 18.0 W DAY/MO/YR 12/06/81 MESSENGER 0911 GMT BOTTOM 3358 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
010 20 KT 330 06 04 0 1011.9 MB 18.4 C 16.8 C 0/8WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
360 18 KT 1012.5 MB 18.0 C 16.8 C

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	18.61	18.61	33.778	24.187	372.2	.000	0
10	18.61	18.61	33.767	24.178	373.4	.037	10
20	18.57	18.57	33.753	24.179	373.7	.074	20
30	18.09	18.08	33.690	24.249	367.3	.111	30
40	16.78	16.77	33.645	24.529	341.0	.147	40
50	14.92	14.91	33.575	24.893	306.5	.179	50
75	12.35	12.34	33.689	25.507	248.5	.248	75
100	10.69	10.68	33.764	25.871	214.3	.305	100
125	9.78	9.77	33.844	26.089	193.9	.358	126
150	9.78	9.76	34.009	26.218	182.2	.405	151
175	9.63	9.61	34.131	26.339	171.3	.449	176
200	9.11	9.09	34.161	26.448	161.3	.490	201
225	8.62	8.60	34.126	26.498	156.8	.530	226
250	8.49	8.46	34.189	26.567	150.7	.568	251
276	8.38	8.35	34.228	26.615	146.6	.606	277
300	8.32	8.29	34.246	26.639	144.8	.643	302
350	7.37	7.34	34.240	26.774	132.2	.711	352
400	6.81	6.77	34.247	26.857	124.7	.775	402
450	6.48	6.44	34.272	26.921	119.1	.837	453
500	6.18	6.14	34.330	27.006	111.5	.894	503

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.99	17.99	33.703	24.282	363.1	.000	0
10	18.00	18.00	33.696	24.275	364.2	.036	10
20	18.00	18.00	33.689	24.270	365.0	.073	20
30	17.95	17.94	33.670	24.268	365.5	.109	30
40	16.02	16.01	33.431	24.539	340.0	.144	40
50	15.42	15.41	33.382	24.635	331.0	.178	50
75	14.15	14.14	33.515	25.011	295.9	.256	75
100	10.91	10.90	33.535	25.654	234.9	.322	100
125	10.09	10.08	33.594	25.842	217.5	.380	126
150	9.09	9.07	33.733	26.115	191.8	.431	151
175	8.96	8.94	33.932	26.292	175.5	.477	176
200	8.81	8.81	34.020	26.381	167.5	.519	201
225	8.47	8.45	34.068	26.475	158.9	.560	226
250	8.29	8.26	34.122	26.545	152.7	.598	251
275	8.26	8.23	34.162	26.582	149.7	.636	276
300	8.18	8.15	34.247	26.661	142.6	.674	302
350	7.45	7.42	34.235	26.758	133.8	.742	352
400	6.69	6.65	34.205	26.840	126.2	.807	402
450	6.14	6.10	34.238	26.938	117.1	.868	453
500	6.24	6.20	34.338	27.005	111.7	.925	503

STATION 110 80 RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

LATITUDE 28 17.2 N LONGITUDE 118 57.2 W DAY/MO/YR 12/06/81 MESSENGER 1728 GMT BOTTOM 4117 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
360 22 KT 350 06 06 1 1015.6 MB 18.5 C 17.5 C 5/R CU

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	17.83	17.83	33.534	24.192	371.7	.000	0
10	17.84	17.84	33.527	24.185	372.8	.037	10
20	17.83	17.83	33.520	24.182	373.4	.074	20
30	17.81	17.80	33.509	24.179	374.0	.112	30
40	16.88	16.87	33.398	24.316	361.3	.148	40
50	15.44	15.43	33.383	24.632	331.4	.183	50
75	13.99	13.98	33.389	24.947	301.9	.262	75
100	11.78	11.77	33.398	25.389	260.2	.331	100
125	10.02	10.01	33.572	25.836	218.0	.393	126
150	9.20	9.18	33.728	26.093	193.8	.445	151
175	8.90	8.88	33.846	26.234	181.0	.491	176
200	8.67	8.65	33.934	26.339	171.4	.535	201
225	8.19	8.17	33.961	26.433	162.7	.576	226
250	7.79	7.77	34.005	26.527	154.1	.616	251
275	7.50	7.47	34.012	26.575	149.8	.653	276
300	7.20	7.17	34.034	26.635	144.4	.691	302
350	6.70	6.67	34.072	26.733	135.5	.761	352
400	6.45	6.41	34.132	26.814	128.4	.826	402
450	6.07	6.03	34.209	26.924	118.4	.889	453
500	5.96	5.92	34.300	27.010	110.8	.946	503

RV NEW HORIZON		CALCOFI CRUISE 8105						10 METER DATA						
LINE	STA							Z	T	S	02	02 PCT	SIG TH	SVA
60	50	04/06/81 0832GMT 37 56.7N 122 52.8W WEATH 0 BOTTOM 47M WIND 330 22 KT WAVES 330 5 BAR 1014.4MB DRY 11.4C WET 10.4C CLOUDS 0/8	10	9.89	33.985			26.178	183.0					
60	52	04/06/81 1042GMT 37 51.6N 123 03.8W WEATH 0 BOTTOM 90M WIND 340 20 KT WAVES 320 8 BAR 1015.6MB DRY 11.5C WET 10.7C CLOUDS 0/8	10	9.85	33.948			26.156	185.1					
60	65	04/06/81 2200GMT 37 26.7N 123 58.8W WEATH 0 BOTTOM 3736M WIND 330 60 KT WAVES 330 10 BAR 1015.0MB DRY 16.4C WET 14.7C CLOUDS 0/8	10	14.45	32.915			24.483	344.3					
63	50	04/06/81 0255GMT 37 22.6N 122 28.4W WEATH 0 BOTTOM 32M WIND 310 11 KT WAVES 330 3 BAR 1014.6MB DRY 13.3C WET 12.4C CLOUDS 0/8	10	10.64	33.879			25.967	203.0					
63	55	03/06/81 2057GMT 37 12.7N 122 50.1W WEATH 0 BOTTOM 260M WIND 320 15 KT WAVES 330 7 BAR 1016.5MB DRY 15.1C WET 14.0C CLOUDS 0/8	10	10.99	33.739			25.796	219.3					
63	65	03/06/81 1221GMT 36 52.6N 123 32.6W WEATH 2 BOTTOM 3598M WIND 320 29 KT WAVES 330 8 3 BAR 1017.0MB DRY 13.7C WET 13.0C CLOUDS 8/8 SC	10	11.90	33.740			25.630	235.1					
67	49	01/06/81 2048GMT 36 49.2N 121 59.2W WEATH 1 BOTTOM 260M WIND 270 13 KT WAVES 290 2 BAR 1014.0MB DRY 15.5C WET 13.4C CLOUDS 5/8 CI	10	11.46	33.909			25.843	214.8					
67	55	02/06/81 0312GMT 36 36.9N 122 25.2W WEATH 2 BOTTOM 2870M WIND 310 18 KT WAVES 320 3 BAR 1014.3MB DRY 12.6C WET 12.5C CLOUDS 8/8 ST	10	12.34	33.725			25.899	209.5					
67	65	02/06/81 1058GMT 36 17.2N 123 07.9W WEATH 2 BOTTOM 3278M WIND 320 18 KT WAVES 300 8 BAR 1016.0MB DRY 13.7C WET 12.7C CLOUDS 8/8	10	12.62	33.551			25.346	262.1					
70	51	01/06/81 1412GMT 36 10.9N 121 43.6W WEATH 5 BOTTOM 214M WIND 110 6 KT WAVES 280 4 BAR 1014.1MB DRY 11.3C WET 10.7C CLOUDS 8/8 ST	10	10.18	33.955			26.106	189.8					
70	65	01/06/81 0119GMT 35 43.0N 122 43.2W WEATH 2 BOTTOM 1370M WIND 320 23 KT WAVES 330 8 BAR 1011.8MB DRY 14.7C WET 13.4C CLOUDS 8/8 SC	10	13.38	33.322			25.018	293.3					
73	53	29/05/81 0035GMT 35 32.6N 121 28.0W WEATH 2 BOTTOM 712M WIND 320 20 KT WAVES 330 5 BAR 1014.4MB DRY 12.9C WET 12.2C CLOUDS 9/8 ST	10	12.14	33.800			25.631	234.9					
73	65	29/05/81 0916GMT 35 08.7N 122 18.7W WEATH BOTTOM 3859M WIND 320 25 KT WAVES 320 8 BAR 1016.2MB DRY 13.4C WET 12.3C CLOUDS 3/8	10	13.95	33.151			24.770	317.0					
77	46	28/05/81 1559GMT 35 07.3N 120 42.4W WEATH 2 BOTTOM 28M WIND 260 06 KT WAVES 270 1 BAR 1015.8MB DRY 12.2C WET 11.9C CLOUDS 8/8 ST	10	11.60	33.889			25.802	218.8					
77	55	28/05/81 0810GMT 34 53.3N 121 12.2W WEATH 2 BOTTOM 561M WIND 330 16 KT WAVES 330 8 BAR 1016.2MB DRY 14.9C WET 12.1C CLOUDS 8/8	10	12.88	33.774			25.468	250.6					
77	65	27/05/81 2355GMT 34 33.3N 121 53.9W WEATH 2 BOTTOM 3776M WIND 320 19 KT WAVES 320 3 BAR 1015.0MB DRY 15.0C WET 13.5C CLOUDS 8/8 ST	10	13.45	33.759			25.342	262.5					
77	80	27/05/81 1216GMT 34 03.2N 122 56.6W WEATH 5 BOTTOM 4236M WIND 320 19 KT WAVES 340 6 BAR 1015.4MB DRY 14.8C WET 13.2C CLOUDS 8/8 ST	10	15.46	33.412	5.90	103.6	24.648	328.6					
80	55	25/05/81 0831GMT 34 18.7N 120 48.0W WEATH 5 BOTTOM 778M WIND 330 24 KT WAVES 310 6 BAR 1014.2MB DRY 13.2C WET 13.0C CLOUDS 8/8	10	13.44	33.698			25.297	266.8					
83	41	24/05/81 1431GMT 34 14.0N 119 24.4W WEATH 2 BOTTOM 32M WIND 130 07 KT WAVES 290 2 BAR 1013.4MB DRY 16.0C WET 15.0C CLOUDS 8/8 ST	10	13.24	33.618			25.275	268.8					
83	51	24/05/81 0527GMT 33 52.7N 120 07.8W WEATH 1 BOTTOM 297M WIND 330 23 KT WAVES 330 5 BAR 1013.5MB DRY 13.5C WET 13.0C CLOUDS 8/8 ST	10	12.18	33.622			25.485	248.8					
87	33	20/05/81 0518GMT 33 53.4N 118 29.6W WEATH 1 BOTTOM 56M WIND 270 15 KT WAVES 220 3 BAR 1010.5MB DRY 15.5C WET 12.5C CLOUDS 3/8 CU	10	17.26	33.615			24.391	353.1					
87	45	20/05/81 2205GMT 33 29.5N 119 19.0W WEATH 0 BOTTOM 1609M WIND 290 28 KT WAVES 270 7 BAR 1014.0MB DRY 15.5C WET 13.5C CLOUDS 0/8	10	16.01	33.620			24.685	325.1					
87	55	21/05/81 0540GMT 33 09.3N 120 00.5W WEATH 1 BOTTOM 1225M WIND 310 20 KT WAVES BAR 1016.8MB DRY 13.5C WET 11.8C CLOUDS CU	10	14.05	33.647			25.132	282.5					

LINE	STA		Z	T	S	02	02	PCT	SIG	TH	SVA
90	28	19/05/81 0643GMT 33 29.1N 117 46.1W WEATH BOTTOM 56M WIND 350 8 KT WAVES BAR 1012.2MB DRY 18.0C WET 16.2C CLOUDS	10	15.86	33.597	4.50	79.7	24.701	323.5		
93	28	28/05/81 0244GMT 32 54.8N 117 23.7W WEATH 1 BOTTOM 630M WIND 290 6 KT WAVES 280 2 BAR 1014.6MB DRY 18.0C WET 16.2C CLOUDS 5/8 CU	10	17.16	33.625	5.83	106.0	24.423	350.1		
93	35	28/05/81 0820GMT 32 40.8N 117 52.4W WEATH BOTTOM 639M WIND 240 9 KT WAVES BAR 1013.5MB DRY 17.3C WET 15.0C CLOUDS	10	17.91	33.653	5.80	106.9	24.264	365.2		
93	45	30/05/81 1140GMT 32 20.8N 118 33.3W WEATH BOTTOM 1479M WIND 290 11 KT WAVES BAR 985.8MB DRY 16.0C WET 14.1C CLOUDS	10	15.18	33.644	6.01	105.1	24.888	305.7		
93	55	30/05/81 1937GMT 32 00.8N 119 14.0W WEATH 2 BOTTOM 1540M WIND 340 15 KT WAVES 320 4 BAR 1013.2MB DRY 16.2C WET 14.8C CLOUDS 8/8 ST	10	15.33	33.649	6.11	107.2	24.859	308.5		
97	29	02/06/81 1030GMT 32 17.4N 117 04.8W WEATH BOTTOM 47M WIND 290 5 KT WAVES BAR 1011.9MB DRY 17.1C WET 14.5C CLOUDS	10	18.13	33.692	6.40	118.5	24.240	367.5		
97	32	02/06/81 1403GMT 32 11.4N 117 17.0W WEATH 2 BOTTOM 1479M WIND 280 8 KT WAVES 260 2 BAR 1011.9MB DRY 16.4C WET 14.1C CLOUDS 8/8 ST	10	17.53	33.647	5.80	106.2	24.351	356.9		
97	35	02/06/81 1634GMT 32 05.4N 117 29.2W WEATH 2 BOTTOM 1147M WIND 160 4 KT WAVES 260 2 BAR 1012.2MB DRY 18.6C WET 15.0C CLOUDS 8/8 ST	10	17.54	33.650	5.75	105.3	24.351	356.9		
97	45	03/06/81 0057GMT 31 45.4N 118 09.8W WEATH 2 BOTTOM 1443M WIND 270 14 KT WAVES 260 3 BAR 1011.9MB DRY 16.0C WET 14.8C CLOUDS 8/8 ST	10	15.86	33.576	5.88	104.2	24.685	325.1		
97	55	03/06/81 0825GMT 31 25.4N 118 50.3W WEATH BOTTOM 864M WIND 330 18 KT WAVES BAR 1012.2MB DRY 15.5C WET 13.6C CLOUDS	10	16.64	33.601	5.70	102.6	24.526	340.2		
100	29	06/06/81 1719GMT 31 42.8N 116 43.4W WEATH 2 BOTTOM 86M WIND 170 3 KT WAVES 490 1 BAR 1012.5MB DRY 20.2C WET 18.0C CLOUDS 8/8 ST	10	17.09	33.667	6.09	110.6	24.471	345.4		
100	35	06/06/81 1127GMT 31 31.2N 117 06.9W WEATH BOTTOM 1110M WIND 200 9 KT WAVES BAR 1011.9MB DRY 17.4C WET 16.1C CLOUDS	10	17.55	33.632	5.67	103.8	24.335	358.5		
100	45	06/06/81 0439GMT 31 11.2N 117 47.2W WEATH BOTTOM 1577M WIND 180 14 KT WAVES BAR 1011.2MB DRY 17.3C WET 15.2C CLOUDS	10	17.56	33.595	5.64	103.3	24.304	361.4		
103	29	07/06/81 1338GMT 31 08.9N 116 20.5W WEATH 2 BOTTOM 22M WIND 340 8 KT WAVES 270 1 BAR 1011.5MB DRY 17.5C WET 16.5C CLOUDS 8/8 ST	10	16.27	33.657	5.99	107.0	24.654	328.0		
103	35	07/06/81 1918GMT 30 56.9N 116 44.6W WEATH 2 BOTTOM 1572M WIND 320 9 KT WAVES 310 1 BAR 1012.9MB DRY 20.6C WET 17.3C CLOUDS 8/8 ST	10	16.76	33.598	5.78	104.2	24.496	343.1		
103	45	08/06/81 0211GMT 30 36.9N 117 24.7W WEATH 2 BOTTOM 2135M WIND 310 9 KT WAVES 310 2 BAR 1012.5MB DRY 17.9C WET 16.4C CLOUDS 8/8 ST	10	17.89	33.804	5.63	103.8	24.385	353.7		
107	31	11/06/81 0321GMT 30 29.5N 116 05.8W WEATH BOTTOM 22M WIND 240 7 KT WAVES BAR 1009.8MB DRY 17.1C WET 15.8C CLOUDS	10		33.615	5.58					
107	35	10/06/81 2308GMT 30 21.5N 116 21.8W WEATH 2 BOTTOM 1856M WIND 250 6 KT WAVES 330 5 BAR 1010.2MB DRY 19.0C WET 16.5C CLOUDS 8/8 ST	10	17.13	33.616	5.45	99.0	24.423	350.0		
107	45	10/06/81 1454GMT 30 01.5N 117 01.7W WEATH 2 BOTTOM 1670M WIND 250 14 KT WAVES 300 5 BAR 1009.8MB DRY 18.0C WET 16.0C CLOUDS 8/8 ST	10	17.76	33.721	5.64	103.7	24.353	356.8		
110	35	11/06/81 1018GMT 29 47.2N 115 59.8W WEATH BOTTOM 1058M WIND 350 16 KT WAVES BAR 1009.1MB DRY 16.8C WET 16.0C CLOUDS	10	16.71	33.614	6.05	109.0	24.520	340.8		
110	45	11/06/81 1705GMT 29 27.2N 116 39.5W WEATH 2 BOTTOM 548M WIND 360 17 KT WAVES 330 7 BAR 1011.5MB DRY 17.8C WET 16.0C CLOUDS 8/8 ST	10	17.46	33.675	5.70	104.2	24.389	353.3		



## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 60 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
37°35.8'N	123°39.8'W	06/04/81	1856 GMT	15 m	1145 - 1935 PST	1213 PST	2003 PST	477.4 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	P04	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	7.5	9.7	8.6	0.16	6.1	0.78	5.1	0.22	0.34	0.17
4	70	14.5	14.8	14.7	0.15	6.1	0.80	5.4	0.22	0.38	0.15
9	44	17.4	14.6	16.0	0.29	6.1	0.81	5.5	0.22	0.38	0.15
14	26	14.2	15.8	15.0	0.21	6.3	0.81	5.9	0.22	0.39	0.14
22	11	19.2	19.1	19.1	0.28	6.6	0.92	7.9	0.22	0.44	0.17
27	6	5.8	6.8	6.3	0.47	6.2	0.95	8.9	0.21	0.48	0.16
38	2	7.9	7.3	7.6	0.22	5.2	1.06	10.5	0.20	0.55	0.19

## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 63 56

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
37°10.9'N	122°57.2'W	06/03/81	1921 GMT	12 m	1158 - 1935 PST	1210 PST	2000 PST	1119.8 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	P04	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	38.2	36.8	37.5	0.31	7.0	1.06	10.8	0.28	1.22	0.21
3	70	48.7	47.6	48.2	0.45	6.8	1.08	10.9	0.28	1.30	0.25
6	44	48.1	53.1	50.6	0.34	6.8	1.06	11.0	0.28	1.50	0.17
10	26	26.5	43.0	34.8	0.28	7.2	1.08	11.3	0.29	1.30	0.21
17	11	49.0	41.5	45.3	0.40	8.0	1.11	11.5	0.30	2.04	0.20
22	6	35.8	34.3	35.1	0.27	9.2	1.16	11.7	0.31	2.62	0.56
31	2	8.4	6.6	7.5	0.17	13.5	1.39	14.8	0.33	0.96	0.36

## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 65 74

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
36°16.9'N	124°02.4'W	06/05/81	1921 GMT	10 m	1200 - 1935 PST	1214 PST	2000 PST	647.4 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	P04	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	92	22.1	21.7	21.9	0.26	1.3	0.62	6.1	0.33	1.88	0.08
2	70	24.0	29.6	26.8	0.27	1.3	0.63	6.4	0.32	2.09	0.16
6	44	23.8	28.1	26.0	0.38	1.2	0.64	6.4	0.34	1.47	0.26
10	26	38.1	33.9	36.0	0.44	1.1	0.63	6.3	0.31	1.30	0.25
14	11	15.2	20.1	17.7	0.32	1.1	0.64	6.4	0.33	2.11	0.00
18	6	38.1	19.4	28.8	0.42	1.0	0.67	6.3	0.32	1.76	0.23
26	2	16.8	15.2	16.0	0.33	1.0	0.63	6.4	0.30	3.10	0.14

## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 67 50

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
36°42.5'N	122°00.3'W	06/01/81	1928 GMT	11 m	1200 - 1935 PST	1206 PST	1952 PST	404.2 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	P04	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	19.0	22.1	20.6	0.21	29.7	1.60	17.3	0.32	0.70	0.29
3	70	23.9	26.4	25.2	0.28	29.8	1.63	17.8	0.33	0.70	0.25
6	44	28.3	28.8	28.5	0.24	29.8	1.64	18.0	0.34	0.85	0.36
10	26	16.0	23.9	19.9	0.20	29.9	1.64	18.2	0.34	0.84	0.38
16	11	12.2	11.6	11.9	0.17	27.1	1.67	17.4	0.31	0.56	0.33
20	6	4.6	4.8	4.7	0.17	27.8	1.71	18.3	0.31	0.57	0.35
28	2	3.0	2.4	2.7	0.26	30.5	1.85	21.8	0.28	0.33	0.22

## RV NEW HORIZON

## CALCOFI CRUISE 8105

STATION 67 76

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
35°56.6'N	123°55.3'W	06/02/81	1925 GMT	14 m	1200 - 1935 PST	1214 PST	1957 PST	510.5 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	P04	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	32.2	24.7	28.5	0.38	2.0	0.58	5.2	0.22	1.34	0.13
3	70	27.3	43.6	35.5	0.48	1.8	0.61	5.3	0.23	1.49	0.16
7	44	31.9	34.2	33.1	0.42	1.8	0.61	5.3	0.22	1.41	0.13
12	26	9.8	-	9.8	0.36	1.9	0.67	5.6	0.22	0.44	0.02
20	11	11.8	-	11.8	0.44	1.8	0.71	5.6	0.22	0.28	0.06
26	6	4.0	3.6	3.8	*	1.9	0.71	5.6	0.22	0.26	0.10
36	2	3.8	3.6	3.7	0.26	2.3	0.76	5.7	0.22	0.26	0.09

\* Mean dark value = 0.39

RV NEW HORIZON CALCOFI CRUISE 8105 STATION 73 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
34°38.6'N	123°21.9'W	05/29/81	1901 GMT	28 m	1145 - 1920 PST	1210 PST	1948 PST	287.9 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
2	92	1.1	1.6	1.4	0.15	3.6	0.35	0.7	0.01	0.11	0.01
7	70	2.4	2.8	2.6	0.13	3.7	0.35	0.6	0.00	0.10	0.02
15	44	2.2	2.9	2.6	0.27	3.4	0.34	0.4	0.00	0.10	0.02
25	26	2.0	2.3	2.2	0.14	3.4	0.34	0.3	0.00	0.10	0.02
40	11	6.5	8.5	7.5	0.21	2.9	0.35	0.3	0.00	0.12	0.05
51	6	5.5	4.4	5.0	0.16	2.9	0.43	0.5	0.00	0.52	0.17
71	2	3.7	4.1	3.9	0.09	5.0	0.54	2.1	0.00	0.43	0.35

RV NEW HORIZON CALCOFI CRUISE 8105 STATION 73 101

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
34°01.5'N	124°51.4'W	05/30/81	1920 GMT	14 m	1200 - 1930 PST	1216 PST	1952 PST	75.2 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	92	1.5	1.9	1.7	0.15	3.4	0.42	0.2	0.00	0.10	0.02
3	70	3.1	4.1	3.6	0.12	3.4	0.41	0.0	0.00	0.10	0.02
7	44	3.3	3.3	3.3	0.16	3.2	0.41	0.0	0.00	0.10	0.02
11	26	1.8	-	1.8	*	3.1	0.41	0.0	0.00	0.10	0.01
19	11	3.0	2.9	3.0	0.18	3.1	0.40	0.0	0.00	0.10	0.02
25	6	1.0	0.9	0.9	0.15	3.2	0.40	0.0	0.00	0.10	0.02
34	2	1.7	1.4	1.5	0.24	3.2	0.39	0.0	0.00	0.16	0.05

\* Mean dark value = 0.17

RV NEW HORIZON CALCOFI CRUISE 8105 STATION 75 49

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
35°21.2'N	121°00.6'W	05/28/81	1932 GMT	11 m	1210 - 1920 PST	1201 PST	1941 PST	675.0 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	92	30.2	34.9	32.6	0.30	20.4	1.27	13.1	0.01	0.52	0.28
3	70	35.3	39.0	37.2	0.28	20.4	1.29	13.7	0.01	0.67	0.30
6	44	35.7	42.6	39.2	0.46	20.4	1.31	13.7	0.01	0.79	0.42
10	26	32.5	32.6	32.5	0.33	20.1	1.33	14.4	0.01	0.89	0.29
16	11	14.5	15.3	14.9	0.25	20.0	1.39	15.0	0.01	1.23	0.39
20	6	21.8	20.9	21.4	*	20.2	1.39	15.5	0.00	1.53	0.53
28	2	2.5	3.6	3.0	0.20	25.6	1.72	20.9	0.00	0.38	0.32

\* Mean dark value = 0.30

RV NEW HORIZON CALCOFI CRUISE 8105 STATION 77 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
34°23.9'N	122°14.6'W	05/27/81	1932 GMT	11 m	1205 - 1915 PST	1206 PST	1940 PST	1060.8 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
1	92	43.0	47.6	45.3	0.31	0.9	0.45	3.9	0.02	3.01	0.05
3	70	32.9	42.4	37.6	0.29	0.9	0.46	3.9	0.02	2.83	0.03
6	44	30.4	38.0	34.2	0.32	0.7	0.44	3.8	0.01	2.54	0.08
10	26	46.0	58.4	52.2	0.33	0.7	0.47	3.9	0.01	3.47	0.48
16	11	48.4	37.7	43.0	0.81	3.8	0.74	6.6	0.01	3.46	0.33
20	6	41.1	31.4	36.2	0.42	3.2	0.78	6.8	0.01	4.02	0.59
28	2	18.4	14.8	16.6	0.39	8.6	0.92	7.9	0.01	3.36	0.79

RV NEW HORIZON CALCOFI CRUISE 8105 STATION 80 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
33°48.9'N	121°50.8'W	05/25/81	1915 GMT	12 m	1215 - 1915 PST	1204 PST	1937 PST	650.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	92	31.8	40.6	36.2	0.26	1.0	0.56	2.1	0.16	1.14	0.08
2	70	35.2	32.6	33.9	0.20	1.0	0.56	2.1	0.16	1.04	0.18
6	44	34.9	36.5	35.7	0.23	0.7	0.55	2.0	0.16	1.25	0.06
10	26	21.6	26.2	23.9	0.23	0.6	0.57	2.0	0.16	1.15	0.06
18	11	16.0	16.6	16.3	0.14	0.6	0.56	2.0	0.17	0.93	0.10
22	6	13.5	14.3	13.9	0.22	0.6	0.57	2.0	0.19	0.86	0.10
32	2	6.4	4.8	5.6	0.20	0.5	0.56	2.2	0.18	1.20	0.12



RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 80 100	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°49.1'N	123°54.5'W	05/26/81	1853 GMT	30 m	1140 - 1920 PST	1213 PST	1943 PST	123.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
2	92	0.87	1.6	1.2	0.07	3.3	0.35	0.2	0.00	0.05	0.01
7	70	2.1	2.1	2.1	0.08	3.1	0.35	0.2	0.00	0.06	0.01
16	44	1.6	1.6	1.6	0.09	3.2	0.33	0.1	0.00	0.06	0.01
26	26	2.8	2.8	2.8	0.10	3.1	0.32	0.1	0.00	0.07	0.01
43	11	0.65	0.72	0.69	0.13	2.9	0.32	0.1	0.00	0.07	0.02
55	6	1.6	1.6	1.6	0.14	2.9	0.33	0.1	0.00	0.10	0.03
76	2	1.4	1.3	1.4	0.10	3.0	0.34	0.0	0.00	0.17	0.04

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 60	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
33°33.6'N	120°50.6'W	05/23/81	1928 GMT	9 m	1210 - 1915 PST	1200 PST	1930 PST	1071.9 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	23.1	48.8	36.0	0.26	4.4	0.72	5.3	0.19	2.37	0.25
4	70	62.0	65.2	63.6	0.20	4.2	0.72	5.5	0.19	2.79	0.12
7	44	64.8	75.2	70.0	0.31	4.0	0.72	5.6	0.19	2.42	0.14
10	26	42.6	14.8	28.7	0.14	4.0	0.76	5.5	0.19	2.90	0.40
15	11	72.3	51.4	61.8	0.21	4.0	0.73	5.5	0.19	2.24	0.23
18	6	38.0	30.0	34.0	0.20	3.9	0.74	5.5	0.20	2.27	0.21
24	2	19.2	15.6	17.4	0.23	3.9	0.74	5.6	0.20	1.22	0.01

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 83 100	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°14.6'N	123°29.5'W	05/22/81	1917 GMT	24 m	1155 - 1905 PST	1211 PST	1938 PST	84.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	1.0	1.4	1.2	0.11	3.1	0.35	0.4	0.00	0.06	0.02
5	70	1.6	1.5	1.6	0.10	2.9	0.35	0.2	0.00	0.06	0.02
12	44	2.0	2.8	2.4	0.14	3.0	0.36	0.1	0.00	0.06	0.01
20	26	2.4	3.2	2.8	0.11	3.0	0.35	0.1	0.00	0.06	0.02
34	11	0.67	0.80	0.74	0.13	3.0	0.34	0.0	0.00	0.06	0.01
44	6	0.67	0.54	0.61	0.15	3.0	0.34	0.0	0.00	0.10	0.03
61	2	0.92	0.70	0.81	0.15	3.0	0.34	0.0	0.00	0.10	0.03

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 40	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
33°39.1'N	118°59.5'W	05/20/81	1945 GMT	14 m	1235 - 1855 PST	1152 PST	1921 PST	329.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	8.4	11.9	10.1	0.16	8.5	0.33	0.4	0.02	0.26	0.08
4	70	9.6	12.4	11.0	0.17	7.6	0.30	0.2	0.01	0.27	0.04
8	44	8.9	10.7	9.8	0.11	6.7	0.32	0.0	0.02	0.29	0.04
12	26	15.0	18.2	16.6	0.17	6.2	0.29	0.0	0.01	0.27	0.07
20	11	5.1	4.9	5.0	0.13	6.2	0.29	0.0	0.02	0.28	0.05
26	6	6.9	6.9	6.9	0.17	5.6	0.29	0.0	0.03	0.34	0.08
36	2	8.2	6.4	7.3	0.18	15.3	1.04	9.4	0.23	0.65	0.30

RV NEW HORIZON				CALCOFI CRUISE 8105						STATION 87 80	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°19.1'N	121°38.3'W	05/21/81	1945 GMT	19 m	1220 - 1900 PST	1204 PST	1929 PST	223.2 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	92	2.7	3.6	3.2	0.10	4.6	0.38	0.3	0.01	0.13	0.03
4	70	4.2	4.5	4.4	0.11	4.2	0.37	0.1	0.01	0.12	0.03
10	44	4.7	4.6	4.6	0.10	4.0	0.37	0.0	0.02	0.13	0.02
16	26	5.2	5.7	5.5	0.13	3.9	0.37	0.0	0.02	0.14	0.02
27	11	-	3.2	3.2	0.10	3.7	0.41	0.0	0.07	0.30	0.05
34	6	6.2	5.9	6.0	0.12	2.8	0.42	0.0	0.09	0.44	0.10
48	2	-	4.1	4.1	0.10	4.2	0.49	0.5	0.19	0.61	0.29



RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.8'N	119°09.0'W	05/19/81	2029 GMT	9 m	1320 - 1930 PST	1153 PST	1924 PST	711.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	8.9	16.2	12.5	0.43	2.5	0.35	0.2	0.05	1.35	0.14
1	84	40.3	31.5	35.9	0.69	2.5	0.35	0.2	0.05	1.37	0.17
5	44	34.0	35.6	34.8	0.58	2.5	0.35	0.2	0.05	1.36	0.22
10	23	34.7	42.2	38.4	0.98	2.2	0.37	0.2	0.05	1.31	0.18
19	5	20.6	24.3	22.4	0.33	3.9	0.42	0.4	0.08	2.53	0.38
30	0.80	1.7	3.7	2.7	0.44	10.1	0.80	6.5	0.32	1.33	0.45

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.8'N	119°09.0'W	05/19/81	2037 GMT	9 m	1320 - 1930 PST	1153 PST	1921 PST				
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	15.5	18.7	17.1	0.81	2.8	0.34	0.2	0.05	1.29	0.13
1	84	23.0	35.5	29.3	0.39	2.6	0.33	0.2	0.05	1.28	0.11
5	44	-	33.8	33.8	0.86	2.2	0.33	0.2	0.05	1.31	0.11
10	23	30.4	33.5	31.9	0.73	2.2	0.34	0.2	0.05	1.32	0.13
*55	5	1.3	1.5	1.4	0.15	21.8	1.51	19.4	0.07	0.26	0.18
*65	0.80	0.40	0.41	0.41	0.03	24.0	1.60	21.0	0.05	0.16	0.14

\* Sampled incorrect depths

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.8'N	119°08.8'W	05/20/81	1855 GMT	9 m	1200 - 1910 PST	1153 PST	1921 PST	702.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	23.2	11.0	17.1	0.44					1.09	0.22
1	84	27.4	23.6	25.5	1.12					1.10	0.19
5	44	49.5	35.9	42.7	1.46					1.02	0.18
10	23	31.0	43.0	37.0	0.89					1.06	0.19
19	5	16.9	25.1	21.0	0.22					1.43	0.50
30	0.80	5.6	2.1	3.9	0.27					1.66	0.32

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.8'N	119°08.8'W	05/20/81	1903 GMT	9 m	1200 - 1910 PST	1153 PST	1921 PST	667.0 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	7.9	8.0	7.9	0.87					1.04	0.20
1	84	21.0	37.6	29.3	0.57					1.04	0.14
5	44	37.7	34.7	36.2	0.42					1.04	0.18
10	23	39.4	32.4	35.9	0.36					1.04	0.15
19	5	19.7	19.6	19.6	0.23					1.55	0.24
30	0.80	3.3	6.7	5.0	0.23					1.42	0.43

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.9'N	119°09.1'W	05/21/81	1840 GMT	11 m	1150 - 1915 PST	1154 PST	1921 PST	511.8 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	10.8	8.4	9.6	0.33					0.50	0.09
1	84	23.9	25.2	24.6	0.50					0.45	0.11
6	44	20.5	22.3	21.4	0.43					0.51	0.15
11	23	26.2	18.9	22.6	0.59					0.50	0.11
21	5	8.4	13.6	11.0	*					0.52	0.14
36	0.80	5.6	3.1	4.3	0.16					0.96	0.41

\* Mean dark value = 0.40

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°54.9'N	119°09.1'W	05/21/81	1850 GMT	11 m	1150 - 1915 PST	1154 PST	1921 PST	559.5 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAE0 ug/1
0	97	8.7	8.3	8.5	0.33					0.47	0.04
1	84	-	25.4	25.4	0.42					0.41	0.06
6	44	27.1	25.5	26.3	0.57					0.45	0.06
11	23	27.4	-	27.4	0.46					0.44	0.09
22	5	6.6	15.5	11.0	0.25					0.52	0.13
37	0.80	2.5	2.4	2.4	0.29					0.70	0.54

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°25.3'N	119°07.5'W	05/22/81	1845 GMT	9 m	1145 - 1910 PST	1157 PST	1924 PST	1087.4 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAE0 ug/1
0	97	55.3	47.4	51.4	1.69					1.86	0.15
1	84	76.6	-	76.6	1.09					1.96	0.18
5	44	60.3	60.6	60.4	6.94					2.09	0.35
10	23	70.3	62.6	66.5	5.98					2.33	0.38
19	5	16.5	21.9	19.2	5.16					1.94	0.20
30	0.80	3.9	1.8	2.8	3.17					1.69	0.34

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°25.3'N	119°07.5'W	05/22/81	1855 GMT	9 m	1145 - 1910 PST	1157 PST	1924 PST	1078.0 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAE0 ug/1
0	97	36.1	39.0	37.5	0.53					1.97	0.32
1	84	74.6	52.9	63.8	1.26					1.93	0.33
5	44	74.7	61.1	67.9	7.49					2.25	0.37
10	23	63.4	65.4	64.4	1.82					2.18	0.31
19	5	22.8	19.4	21.1	0.86					1.84	0.39
30	0.80	1.9	-	1.9	2.67					2.04	0.31

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°25.2'N	119°07.3'W	05/23/81	1845 GMT	8 m	1145 - 1915 PST	1157 PST	1924 PST	964.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAE0 ug/1
0	97	43.3	39.3	41.3	1.46					2.72	0.24
1	84	52.5	16.2	34.4	2.81					2.64	0.33
4	44	70.1	61.3	65.7	4.01					2.63	0.22
9	23	68.4	60.6	64.5	1.33					2.65	0.25
17	5	30.0	23.7	26.9	4.25					2.76	0.34
27	0.80	12.3	1.0	6.6	1.86					2.66	0.33

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°25.2'N	119°07.3'W	05/23/81	1855 GMT	8 m	1145 - 1915 PST	1157 PST	1924 PST	1032.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAE0 ug/1
0	97	12.1	20.8	16.4	5.35					2.68	0.31
1	84	51.3	54.8	53.1	6.59					3.05	0.15
4	44	78.3	58.6	68.5	0.96					2.47	0.29
9	23	67.4	69.3	68.4	6.70					2.60	0.25
17	5	29.6	27.7	28.7	1.93					2.58	0.15
27	0.80	8.0	3.0	5.5	4.54					2.80	0.42

RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 90 84

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°37.5'N	121°36.3'W	05/24/81	1855 GMT	17 m	1145 - 1915 PST	1203 PST	1128 PST	201.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	S103 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	97	1.5	1.0	1.2	0.13					0.16	0.05
2	84	3.5	4.0	3.8	0.15					0.18	0.06
11	44	5.5	5.8	5.6	0.22					0.18	0.04
17	23	5.5	5.9	5.7	0.14					0.17	0.05
35	5	2.3	3.1	2.7	0.21					0.20	0.03
58	0.80	3.2	1.6	2.4	0.14					0.36	0.21

RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 90 84

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°37.5'N	121°36.3'W	05/24/81	1905 GMT	17 m	1145 - 1915 PST	1203 PST	1128 PST	182.9 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	S103 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	97	0.46	0.78	0.62	0.15					0.19	0.07
2	84	4.4	1.9	4.2	0.17					0.17	0.05
11	44	4.2	5.3	2.6	0.15					0.17	0.04
17	23	6.0	7.6	6.8	0.15					0.17	0.05
35	5	1.8	2.3	2.0	0.26					0.17	0.06
58	0.80	2.3	2.7	2.5	0.13					0.53	0.29

RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 93 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°30.8'N	118°12.8'W	05/28/81	1904 GMT	14 m	1145 - 1905 PST	1150 PST	1921 PST	220.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	S103 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	97	6.2	6.1	6.2	0.18	2.2	0.26	0.1	0.03	0.22	0.04
2	84	5.5	6.5	6.0	0.24	2.1	0.25	0.1	0.03	0.22	0.05
9	44	-	5.0	5.0	0.27	2.0	0.25	0.1	0.03	0.24	0.04
14	23	7.7	6.4	7.0	0.37	2.0	0.28	0.1	0.03	0.25	0.04
29	5	4.8	5.7	5.0	0.23	2.9	0.38	0.4	0.05	0.65	0.09
47	0.80	2.6	1.6	2.1	0.12	10.0	0.97	9.6	0.41	1.13	0.46

RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 93 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°30.8'N	118°12.8'W	05/28/81	1913 GMT	14 m	1145 - 1905 PST	1150 PST	1921 PST	207.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	S103 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	97	4.7	6.5	5.6	0.32	2.4	0.29	0.2	0.02	0.24	0.04
2	84	8.2	6.4	7.3	0.22	2.7	0.29	0.1	0.03	0.24	0.04
9	44	5.1	-	5.1	0.36	2.7	0.30	0.1	0.03	0.24	0.04
14	23	7.4	4.8	6.1	0.08	2.8	0.31	0.1	0.03	0.24	0.05
29	5	4.2	5.3	4.8	0.17	4.3	0.42	0.6	0.07	0.72	0.09
47	0.80	1.4	1.7	1.5	0.14	11.0	1.02	9.8	0.41	1.10	0.44

RV DAVID STARR JORDAN CALCOFI CRUISE 8105 STATION 93 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°30.8'N	118°12.7'W	05/29/81	1903 GMT	17 m	1145 - 1920 PST	1150 PST	1921 PST	541.0 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	S103 um/l	PO4 um/l	NO3 um/l	NO2 um/l	CHL ug/l	PHAEO ug/l
0	97	8.6	9.0	8.8	0.18	2.3	0.26	0.1	0.02	0.26	0.05
2	84	10.3	-	10.3	0.30	2.3	0.26	0.0	0.02	0.24	0.02
12	44	-	8.5	8.5	0.26	2.3	0.22	0.0	0.02	0.29	0.03
19	23	16.0	15.1	15.6	0.30	2.2	0.30	0.0	0.02	0.57	0.09
37	5	-	12.4	12.4	0.52	7.3	0.74	4.9	0.26	1.39	0.58
60	0.80	0.51	0.26	0.39	0.18	19.3	1.46	17.1	0.11	0.18	0.38



RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°30.8'N	118°12.7'W	05/29/81	1914 GMT	17 m	1145 - 1920 PST	1150 PST	1921 PST	502.8 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1
0	97	8.1	8.9	8.5	0.20	2.4	0.26	0.1	0.03	0.22	0.02
2	84	10.4	9.2	9.8	0.20	2.5	0.26	0.1	0.02	0.22	0.03
12	44	8.3	7.0	7.6	0.34	2.6	0.26	0.0	0.02	0.26	0.04
19	23	15.3	-	15.3	0.28	2.7	0.33	0.0	0.02	0.54	0.07
37	5	11.5	10.7	11.1	0.16	6.9	0.71	4.3	0.23	1.52	0.72
60	0.80	0.01	0.19	0.10	0.46	19.2	1.48	16.8	0.11	0.24	0.39

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°00.9'N	119°14.0'W	05/30/81	1914 GMT	9 m	1150 - 1910 PST	1154 PST	1925 PST	484.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1
0	97	18.6	12.1	15.4	1.08	2.2	0.38	0.6	0.07	1.28	0.09
1	84	25.6	26.3	25.9	1.43	2.1	0.38	0.6	0.08	1.14	0.07
5	44	28.9	25.7	27.3	0.54	2.2	0.38	0.6	0.08	1.19	0.14
10	23	29.2	31.3	30.2	1.41	2.5	0.42	0.7	0.08	1.27	0.05
19	5	12.3	12.5	12.4	0.38	2.7	0.40	0.7	0.07	1.34	0.15
30	0.80	2.1	1.7	1.9	0.15	3.2	0.63	2.8	0.17	0.72	0.20

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 55

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°00.9'N	119°14.0'W	05/30/81	1924 GMT	9 m	1150 - 1910 PST	1154 PST	1925 PST	530.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1
0	97	9.2	14.5	11.8	0.71	2.4	0.38	0.6	0.08	1.15	0.06
1	84	28.8	30.1	29.5	0.42	2.5	0.38	0.6	0.08	1.25	0.07
5	44	28.2	31.5	29.9	0.17	2.4	0.40	0.6	0.08	1.16	0.16
10	23	32.8	33.0	32.9	0.27	2.5	0.40	0.6	0.08	1.22	0.11
19	5	10.9	12.6	11.7	1.53	3.0	0.42	0.6	0.07	1.29	0.14
30	0.80	1.2	1.2	1.2	0.29	4.2	0.66	2.9	0.17	0.67	0.24

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°51.3'N	119°33.7'W	05/31/81	1855 GMT	10 m	1135 - 1910 PST	1156 PST	1926 PST	396.8 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1
0	97	21.0	21.3	21.1	0.20	2.0	0.44	0.6	0.06	0.68	0.12
1	84	24.8	21.9	23.4	0.25	2.0	0.43	0.6	0.06	0.81	0.06
5	44	16.4	17.5	17.0	0.24	1.9	0.44	0.6	0.06	0.80	0.08
11	23	19.0	23.5	21.3	0.27	1.9	0.48	0.6	0.06	0.79	0.07
21	5	7.2	8.5	7.8	0.35	1.9	0.44	0.6	0.06	0.93	0.11
34	0.80	1.2	0.66	0.96	0.32	4.3	0.66	3.5	0.17	0.63	0.18

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°51.3'N	119°33.7'W	05/31/81	1905 GMT	10 m	1135 - 1910 PST	1156 PST	1926 PST	421.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT %	UPTAKE 1 mgC/m <sup>3</sup>	UPTAKE 2 mgC/m <sup>3</sup>	MEAN mgC/m <sup>3</sup>	DARK mgC/m <sup>3</sup>	SI03 um/1	PO4 um/1	NO3 um/1	NO2 um/1	CHL ug/1	PHAEO ug/1
0	97	13.9	17.9	15.9	0.18	1.5	0.42	0.5	0.06	0.77	0.06
1	84	24.7	23.2	24.0	0.20	1.5	0.43	0.5	0.06	0.83	0.04
5	44	19.8	18.9	19.4	0.19	1.5	0.42	0.5	0.06	0.71	0.08
11	23	23.6	20.6	22.1	0.22	1.5	0.42	0.4	0.06	0.75	0.04
21	5	7.6	9.7	8.7	0.29	1.5	0.44	0.5	0.06	0.90	0.07
34	0.80	0.91	0.85	0.88	0.30	4.1	0.69	3.9	0.20	0.55	0.16

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°50.3'N	119°34.4'W	06/01/81	1857 GMT	11 m	1138 - 1915 PST	1156 PST	1926 PST	534.5 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	20.7	20.5	20.6	0.16	2.8	0.46	0.7	0.07	1.21	0.16
1	84	23.5	21.4	22.5	0.22	2.5	0.46	0.7	0.07	0.90	0.15
6	44	16.9	20.2	18.6	0.37	2.3	0.46	0.7	0.07	0.96	0.13
11	23	26.8	25.2	26.0	0.18	2.6	0.47	0.8	0.07	1.03	0.16
24	5	11.8	12.6	12.2	0.15	2.2	0.47	0.8	0.08	0.97	0.09
37	0.80	2.7	1.2	1.9	0.13	8.8	0.87	5.1	0.20	1.02	0.76

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°50.3'N	119°34.4'W	06/01/81	1907 GMT	11 m	1138 - 1915 PST	1156 PST	1926 PST	517.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	12.7	14.1	13.4	0.17	2.2	0.45	0.7	0.07	0.81	0.06
1	84	25.5	27.6	26.6	0.22	2.6	0.45	0.8	0.07	0.82	0.14
6	44	20.5	24.6	22.6	0.15	2.1	0.45	0.7	0.07	0.80	0.06
11	23	26.9	20.3	23.6	0.44	2.1	0.45	0.7	0.07	0.91	0.10
24	5	9.1	12.2	10.6	0.41	1.8	0.46	0.7	0.08	1.05	0.11
37	0.80	1.4	0.93	1.2	0.12	6.9	0.87	4.8	0.20	0.84	0.83

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 86

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°00.3'N	121°19.2'W	05/25/81	1905 GMT	25 m	1150 - 1913 PST	1202 PST	1928 PST	124.4 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	1.3	2.3	1.9	0.13					0.09	0.02
3	84	2.1	-	2.1	0.13					0.08	0.01
14	44	1.9	1.9	1.9	0.12					0.08	0.01
26	23	2.0	2.1	2.0	0.23					0.09	0.01
52	5	1.2	1.6	1.4	0.14					0.14	0.02
83	0.80	1.0	0.64	0.82	0.08					0.35	0.14

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 93 86

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
31°00.3'N	121°19.2'W	05/25/81	1917 GMT	25 m	1150 - 1913 PST	1202 PST	1928 PST	111.5 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	0.91	0.88	0.90	0.12					0.07	0.01
3	84	-	2.5	2.5	0.12					0.06	0.01
14	44	2.1	0.43	1.3	0.14					0.08	0.03
26	23	-	1.8	1.8	0.11					0.08	0.01
52	5	0.71	1.6	1.2	0.14					0.15	0.03
84	0.80	0.67	1.4	1.0	0.09					0.28	0.17

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 94 93

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°41.2'N	121°47.2'W	06/05/81	1857 GMT	30 m	1139 - 1915 PST	1205 PST	1934 PST	205.9 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
1	97	1.4	1.4	1.4	0.09	3.1	0.30	0.4	0.03	0.08	0.02
3	84	2.0	2.0	2.0	0.16	2.9	0.29	0.3	0.02	0.08	0.02
17	44	2.2	2.1	2.2	0.21	2.9	0.29	0.2	0.02	0.09	0.02
31	23	2.5	2.4	2.5	0.24	3.0	0.29	0.1	0.02	0.10	0.02
63	5	2.7	3.4	3.0	0.22	3.1	0.34	0.1	0.02	0.23	0.12
100	0.80	0.57	0.57	0.57	0.09	9.4	0.83	7.0	0.20	0.16	0.14

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 94 93

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°41.2'N	121°47.2'W	06/05/81	1908 GMT	30 m	1139 - 1915 PST	1205 PST	1934 PST	179.1 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	S103	P04	N03	N02	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
1	97	1.1	0.92	1.0	0.08	3.1	0.29	0.2	0.02	0.08	0.02
3	84	2.5	1.9	2.2	0.15	3.1	0.29	0.1	0.02	0.08	0.02
17	44	2.0	2.0	2.0	0.18	2.8	0.29	0.1	0.02	0.09	0.02
31	23	2.2	2.1	2.2	0.19	2.8	0.30	0.1	0.02	0.09	0.02
63	5	2.4	2.4	2.4	0.19	3.5	0.34	0.1	0.02	0.24	0.12
101	0.80	0.61	0.71	0.66	0.10	9.7	0.86	7.5	0.18	0.21	0.23

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 97 37

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°01.6'N	117°38.1'W	06/02/81	1854 GMT	21 m	1136 - 1910 PST	1149 PST	1920 PST	381.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	S103	P04	N03	N02	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	-	3.0	3.0	0.16	3.0	0.36	0.1	0.03	0.12	0.03
2	84	5.8	5.2	5.5	0.15	3.1	0.36	0.1	0.03	0.11	0.03
12	44	-	2.4	2.4	0.18	3.0	0.36	0.1	0.03	0.12	0.03
21	23	4.4	4.9	4.7	0.19	4.6	0.38	0.1	0.02	0.15	0.05
44	5	11.3	10.6	10.9	0.14	7.3	0.66	3.2	0.21	0.71	0.28
71	0.80	0.31	0.53	0.42	0.31	15.4	1.23	13.7	0.08	0.21	0.20

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 97 37

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
32°01.6'N	117°38.1'W	06/02/81	1905 GMT	21 m	1136 - 1910 PST	1149 PST	1920 PST	361.2 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	S103	P04	N03	N02	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	-	2.7	2.7	*	2.6	0.34	0.1	0.02	0.11	0.02
2	84	5.9	5.8	5.9	0.14	2.6	0.33	0.1	0.02	0.09	0.04
12	44	6.1	5.8	6.0	0.23	2.6	0.33	0.1	0.02	0.12	0.03
21	23	5.1	0.64	2.9	0.12	4.1	0.38	0.1	0.02	0.16	0.06
44	5	7.8	11.3	9.5	0.13	6.1	0.62	2.6	0.17	0.62	0.19
71	0.80	0.74	0.87	0.81	0.09	14.9	1.24	13.8	0.08	0.18	0.25

\* Mean dark value = 0.14

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 97 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°55.4'N	119°50.7'W	06/03/81	1917 GMT	21 m	1155 - 1910 PST	1157 PST	1927 PST	117.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	S103	P04	N03	N02	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	0.62	0.44	0.53	0.12	4.1	0.31	0.2	0.02	0.08	0.03
2	84	1.8	1.8	1.8	0.12	4.4	0.30	0.2	0.01	0.09	0.02
12	44	2.3	2.4	2.3	0.15	4.2	0.29	0.1	0.01	0.08	0.03
21	23	3.2	-	3.2	0.12	4.0	0.29	0.1	0.03	0.09	0.03
44	5	1.3	1.2	1.3	0.15	3.8	0.28	0.1	0.01	0.10	0.03
71	0.80	0.79	0.53	0.66	0.15	4.5	0.32	0.1	0.02	0.19	0.13

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 97 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°55.4'N	119°50.7'W	06/03/81	1928 GMT	21 m	1155 - 1910 PST	1157 PST	1927 PST	105.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	S103	P04	N03	N02	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	0.22	0.12	0.17	0.14	3.6	0.27	0.1	0.02	0.09	0.02
2	84	1.8	2.2	2.0	0.13	3.6	0.28	0.1	0.01	0.09	0.02
12	44	2.5	0.72	1.6	*	3.6	0.28	0.1	0.01	0.08	0.02
21	23	3.3	-	3.3	0.14	3.6	0.28	0.1	0.01	0.11	0.04
44	5	1.1	0.80	0.96	0.15	3.5	0.28	0.1	0.01	0.11	0.03
71	0.80	0.23	1.0	0.63	0.15	3.6	0.32	0.1	0.01	0.20	0.17

\* Mean dark value = 0.14



RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 98 97

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°50.9'N	121°30.5'W	06/04/81	1900 GMT	25 m	1145 - 1921 PST	1204 PST	1931 PST	221.7 mg C/m <sup>2</sup>

DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	1.9	2.0	2.0	0.10	3.6	0.35	0.3	0.03	0.08	0.02
3	84	3.4	3.0	3.2	0.09	3.6	0.36	0.2	0.02	0.08	0.02
14	44	4.0	3.6	3.8	0.16	3.6	0.35	0.1	0.02	0.07	0.01
26	23	4.1	4.3	4.2	0.11	3.5	0.36	0.1	0.02	0.08	0.02
52	5	1.9	2.6	2.3	0.14	3.5	0.38	0.1	0.02	0.10	0.04
84	0.80	1.3	-	1.3	0.07	3.7	0.45	0.5	0.11	0.30	0.17

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 98 97

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°50.9'N	121°30.5'W	06/04/81	1910 GMT	25 m	1145 - 1921 PST	1204 PST	1931 PST	229.1 mg C/m <sup>2</sup>

DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	1.2	1.3	1.2	0.08	3.5	0.35	0.1	0.02	0.08	0.02
3	84	2.9	3.4	3.2	0.11	3.4	0.35	0.1	0.02	0.08	0.02
14	44	4.2	3.7	3.9	0.10	3.4	0.35	0.1	0.02	0.08	0.02
26	23	-	4.8	4.8	0.11	3.4	0.35	0.1	0.02	0.09	0.03
52	5	2.2	2.2	2.2	*	3.5	0.36	0.1	0.02	0.12	0.06
84	0.80	1.2	-	1.2	0.08	3.8	0.46	0.5	0.12	0.30	0.15

\* Mean dark value = 0.09

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 103 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°56.9'N	116°44.6'W	06/07/81	1854 GMT	22 m	1135 - 1915 PST	1146 PST	1917 PST	311.1 mg C/m <sup>2</sup>

DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	2.8	3.7	3.3	0.20	3.4	0.36	0.3	0.02	0.10	0.02
2	84	4.8	5.3	5.1	0.16	3.1	0.36	0.2	0.02	0.12	0.02
13	44	3.5	3.6	3.6	0.15	3.3	0.35	0.2	0.02	0.08	0.03
22	23	3.1	3.7	3.4	0.14	3.7	0.35	0.2	0.02	0.12	0.03
46	5	8.2	6.9	7.6	0.21	4.0	0.49	0.9	0.07	0.53	0.23
74	0.80	0.71	0.64	0.68	0.08	12.5	1.04	10.8	0.07	0.23	0.26

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 103 35

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
30°56.9'N	116°44.6'W	06/07/81	1906 GMT	22 m	1135 - 1915 PST	1146 PST	1917 PST	245.8 mg C/m <sup>2</sup>

DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	3.4	3.5	3.4	0.18	3.1	0.33	0.2	0.02	0.11	0.02
2	84	5.8	5.4	5.6	0.14	3.1	0.33	0.2	0.02	0.12	0.04
13	44	3.2	3.1	3.2	0.17	3.0	0.33	0.2	0.02	0.09	0.03
22	23	3.9	4.2	4.0	0.22	3.4	0.33	0.2	0.02	0.11	0.03
46	5	5.2	3.8	4.5	0.16	3.9	0.47	1.2	0.07	0.35	0.60
74	0.80	0.60	0.73	0.67	0.15	15.9	0.97	10.0	0.09	0.30	0.15

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 103 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE
29°47.0'N	119°04.5'W	06/08/81	1905 GMT	21 m	1145 - 1920 PST	1155 PST	1923 PST	190.8 mg C/m <sup>2</sup>

DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/l	um/l	um/l	um/l	ug/l	ug/l
0	97	2.0	1.8	1.9	0.13	3.5	0.35	0.6	0.01	0.08	0.02
2	84	3.2	2.6	2.9	0.14	3.3	0.35	0.4	0.01	0.09	0.02
12	44	2.3	3.0	2.7	0.11	3.2	0.34	0.3	0.01	0.08	0.02
21	23	3.1	3.4	3.2	0.20	3.6	0.34	0.2	0.01	0.11	0.04
44	5	1.9	1.9	1.9	0.20	3.2	0.34	0.2	0.01	0.11	0.05
71	0.80	5.9	3.4	4.6	0.20	2.1	0.52	1.2	0.06	1.24	0.48

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 103 70

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
29°47.0N	119°04.5W	06/08/81	1915 GMT	21 m	1145 - 1920 PST	1155 PST	1923 PST	180.4 mg C/m2			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m3	mgC/m3	mgC/m3	mgC/m3	um/1	um/1	um/1	um/1	ug/l	ug/l
0	97	1.4	1.1	1.3	0.18	3.0	0.33	0.2	0.02	0.07	0.02
2	84	3.2	3.2	3.2	0.12	3.1	0.33	0.2	0.01	0.08	0.03
12	44	2.7	2.3	2.5	0.50	3.3	0.32	0.2	0.01	0.09	0.03
21	23	2.8	3.1	2.9	0.24	3.1	0.32	0.2	0.01	0.09	0.02
44	5	1.4	1.9	1.6	0.29	3.4	0.34	0.2	0.01	0.11	0.05
71	0.80	3.9	5.2	4.6	0.24	3.9	0.62	3.1	0.14	1.23	0.53

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 107 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°11.5N	116°41.8W	06/10/81	1932 GMT	26 m	1205 - 1910 PST	1146 PST	1916 PST	169.2 mg C/m2			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m3	mgC/m3	mgC/m3	mgC/m3	um/1	um/1	um/1	um/1	ug/l	ug/l
0	97	2.6	2.3	2.5	0.11	3.6	0.32	0.2	0.02	0.08	0.02
3	84	-	2.9	2.9	0.16	3.6	0.32	0.1	0.02	0.08	0.02
15	44	1.8	2.1	2.0	0.21	3.6	0.34	0.1	0.02	0.08	0.02
27	23	2.7	2.7	2.7	0.16	3.6	0.36	0.1	0.01	0.09	0.03
55	5	2.5	2.3	2.4	0.22	3.6	0.41	0.1	0.01	0.23	0.17
88	0.80	0.47	0.31	0.39	0.16	11.3	0.96	9.5	0.07	0.17	0.25

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 107 40

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
30°11.5N	116°41.8W	06/10/81	1942 GMT	26 m	1205 - 1910 PST	1146 PST	1916 PST	202.0 mg C/m2			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m3	mgC/m3	mgC/m3	mgC/m3	um/1	um/1	um/1	um/1	ug/l	ug/l
0	97	2.1	2.0	2.1	0.16	3.6	0.32	0.1	0.02	0.08	0.02
3	84	2.9	2.7	2.8	0.26	3.6	0.32	0.0	0.02	0.07	0.02
15	44	2.3	2.2	2.2	0.17	3.6	0.34	0.0	0.01	0.08	0.02
27	23	2.8	2.7	2.8	0.17	3.6	0.37	0.0	0.02	0.09	0.03
55	5	3.2	3.6	3.4	0.22	3.6	0.44	0.0	0.02	0.37	0.22
88	0.80	0.42	0.47	0.45	0.12	11.2	0.97	9.4	0.07	0.25	0.25

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 107 78

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
28°54.6N	119°14.8W	06/09/81	1916 GMT	26 m	1145 - 1920 PST	1156 PST	1922 PST	164.5 mg C/m2			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m3	mgC/m3	mgC/m3	mgC/m3	um/1	um/1	um/1	um/1	ug/l	ug/l
1	97	1.1	1.4	1.2	0.12	2.8	0.30	0.4	0.02	0.06	0.01
3	84	2.1	1.8	2.0	0.14	2.8	0.29	0.3	0.02	0.07	0.01
15	44	2.5	2.2	2.4	0.20	2.8	0.29	0.2	0.02	0.07	0.01
27	23	2.7	3.0	2.9	0.18	2.8	0.30	0.2	0.02	0.06	0.01
55	5	1.8	1.8	1.8	0.18	2.8	0.30	0.2	0.02	0.10	0.03
88	0.80	1.4	1.0	1.2	0.08	5.6	0.62	3.6	0.22	0.31	0.20

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 107 78

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
28°54.6N	119°14.8W	06/09/81	1923 GMT	26 m	1145 - 1920 PST	1156 PST	1922 PST	153.0 mg C/m2			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SIO3	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m3	mgC/m3	mgC/m3	mgC/m3	um/1	um/1	um/1	um/1	ug/l	ug/l
1	97	0.49	0.76	0.63	0.17	3.1	0.29	0.2	0.02	0.07	0.02
3	84	2.6	2.5	2.5	0.14	3.0	0.29	0.1	0.02	0.06	0.01
15	44	3.0	2.5	2.7	0.13	3.0	0.29	0.1	0.02	0.06	0.01
27	23	2.8	2.8	2.8	0.18	3.0	0.30	0.1	0.02	0.07	0.01
55	5	1.2	1.4	1.3	0.22	3.0	0.30	0.1	0.02	0.10	0.03
88	0.80	0.90	1.1	1.0	0.14	5.3	0.55	2.6	0.17	0.31	0.24

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
29°23.9'N	116°48.2'W	06/11/81	1913 GMT	16 m	1145 - 1915 PST	1147 PST	1914 PST	736.7 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	10.8	10.4	10.6	0.23	2.0	0.29	0.3	0.02	0.33	0.07
2	84	10.3	14.0	12.1	0.56	2.0	0.28	0.2	0.02	0.31	0.07
10	44	11.3	15.4	13.3	0.23	2.0	0.28	0.2	0.02	0.34	0.07
16	23	21.0	18.4	19.7	0.26	2.2	0.28	0.2	0.02	0.52	0.09
33	5	21.4	19.2	20.3	0.50	4.5	0.55	1.0	0.17	1.20	0.41
53	0.80	1.6	1.1	1.3	0.28	10.7	1.04	10.1	0.24	0.47	0.30

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 47

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
29°23.9'N	116°48.2'W	06/11/81	1922 GMT	16 m	1145 - 1915 PST	1147 PST	1914 PST	650.6 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	9.2	7.8	8.5	0.17	1.8	0.30	0.2	0.01	0.31	0.07
2	84	15.0	14.7	14.8	0.20	1.9	0.30	0.2	0.01	0.29	0.06
10	44	14.6	11.3	13.0	0.24	1.8	0.29	0.2	0.01	0.33	0.06
16	23	21.9	21.9	21.9	0.28	2.2	0.29	0.2	0.01	0.53	0.11
34	5	14.0	14.1	14.0	0.61	5.3	0.65	2.7	0.29	0.95	0.47
54	0.80	0.40	0.48	0.44	0.16	15.9	1.28	14.6	0.08	0.16	0.22

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
28°17.9'N	118°58.2'W	06/12/81	1047 GMT	21 m	1125 - 1920 PST	1156 PST	1921 PST	98.9 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	0.61	0.54	0.58	0.18	3.8	0.33	0.3	0.02	0.06	0.02
2	84	1.6	1.5	1.6	0.18	3.8	0.34	0.3	0.02	0.06	0.02
12	44	2.2	2.4	2.3	0.21	3.8	0.33	0.2	0.02	0.06	0.02
21	23	2.4	3.1	2.8	0.11	3.9	0.33	0.2	0.02	0.06	0.01
44	5	1.1	1.1	1.1	0.25	3.9	0.33	0.2	0.02	0.07	0.02
71	0.80	0.28	0.22	0.25	0.16	4.4	0.38	0.2	0.02	0.14	0.07

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 110 80

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	SECCHI DEPTH	INCUBATION TIME	LAN	CIVIL TWILIGHT	INTEGRATED VALUE			
28°17.9'N	118°58.2'W	06/12/81	1055 GMT	21 m	1125 - 1920 PST	1156 PST	1921 PST	93.3 mg C/m <sup>2</sup>			
DEPTH	LIGHT	UPTAKE 1	UPTAKE 2	MEAN	DARK	SI03	PO4	NO3	NO2	CHL	PHAEO
m	%	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	mgC/m <sup>3</sup>	um/1	um/1	um/1	um/1	ug/1	ug/1
0	97	0.45	0.42	0.44	0.16	3.8	0.32	0.2	0.03	0.08	0.03
2	84	1.8	1.9	1.8	0.17	3.8	0.33	0.1	0.02	0.06	0.01
12	44	2.2	2.2	2.2	0.14	3.8	0.32	0.1	0.02	0.06	0.01
21	23	2.5	2.6	2.6	0.25	3.8	0.32	0.1	0.02	0.07	0.03
44	5	0.92	1.0	0.97	0.21	3.8	0.33	0.1	0.02	0.05	0.02
71	0.80	0.13	0.20	0.17	0.15	4.0	0.36	0.1	0.02	0.16	0.04



LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER
32°56.4'N	119°08.9'W	05/20/81	0117 GMT

DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.93	0.09
10					1.21	0.14
21					1.82	0.06
31					1.90	0.55
41					0.55	0.38
52					0.26	0.17
62					0.13	0.12
83					0.06	0.07
103					0.02	0.05
129					0.02	0.04
155					0.02	0.04

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER
32°54.5'N	119°08.7'W	05/20/81	0530 GMT

DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.95	0.20
11					0.95	0.13
21					1.46	0.43
32					1.26	0.37
43					0.77	0.53
54					0.42	0.36
64					0.29	0.23
75					0.10	0.10
86					0.07	0.09
107					0.03	0.06
134					0.01	0.05
160					0.02	0.04

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER
32°54.9'N	119°08.3'W	05/20/81	1130 GMT

DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.92	0.14
11					0.96	0.21
21					1.21	0.24
32					1.18	0.51
42					0.45	0.25
53					0.30	0.17
64					0.18	0.21
74					0.08	0.10
85					0.10	0.12
106					0.02	0.06
133					0.01	0.05
160					0.02	0.05

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER
32°55.3'N	119°08.6'W	05/20/81	1621 GMT

DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0	1.4	0.40	0.3	0.01	1.28	0.17
11	1.2	0.37	0.3	0.02	1.23	0.15
21	3.8	0.53	0.9	0.08	1.76	0.50
32	9.9	0.89	6.6	0.23	1.52	0.38
43	18.0	1.48	16.6	0.12	0.46	0.28
54	21.7	1.64	19.7	0.04	0.18	0.15
64	22.9	1.67	20.7	0.04	0.13	0.13
75	24.4	1.76	22.0	0.04	0.09	0.12
86	25.5	1.78	22.6	0.02	0.08	0.11
107	29.0	1.88	24.7	0.02	0.02	0.05
134	33.7	2.06	26.9	0.02	0.01	0.06
160	37.0	2.07	28.1	0.02	0.02	0.07

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°54.7'N	119°09.3'W	05/21/81	0006 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.77	0.12
11					0.77	0.09
21					1.60	0.24
32					1.54	0.49
42					0.69	0.46
53					0.43	0.27
64					0.15	0.13
74					0.06	0.10
85					0.03	0.09
106					0.01	0.04
133					0.02	0.05
159					0.01	0.05

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°54.9'N	119°08.9'W	05/21/81	0615 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.67	0.16
11					0.60	0.14
21					0.70	0.22
32					1.41	0.52
43					0.75	0.61
54					0.39	0.32
64					0.14	0.14
75					0.06	0.08
86					0.05	0.08
107					0.06	0.07
134					0.03	0.06
160					0.02	0.02

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°54.6'N	119°08.4'W	05/21/81	1225 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					0.54	0.07
11					0.54	0.08
21					0.51	0.10
32					1.29	0.43
43					0.72	0.43
54					0.38	0.22
64					0.20	0.15
75					0.06	0.09
86					0.04	0.11
107					0.01	0.07
134					0.01	0.04
160					0.01	0.04

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°55.1'N	119°08.6'W	05/21/81	1617 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0	0.8	0.28	0.3	0.01	0.69	0.11
11	0.6	0.29	0.2	0.00	0.71	0.10
21	4.7	0.50	2.5	0.10	1.30	0.49
32	11.7	0.94	10.1	0.33	1.37	0.54
42	17.5	1.33	16.8	0.15	0.71	0.49
53	19.4	1.43	18.6	0.07	0.46	0.46
64	22.3	1.56	20.8	0.03	0.22	0.20
74	24.0	1.65	22.1	0.01	0.14	0.20
85	25.4	1.75	23.2	0.02	0.07	0.09
106	28.6	1.84	24.8	0.01	0.03	0.08
133	33.0	1.98	27.0	0.00	0.01	0.07
159	35.7	2.05	28.1	0.01	0.04	0.13

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°25.0'N	119°57.2'W	05/22/81	1630 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0	6.1	0.61	3.7	0.13	1.84	0.23
11	6.1	0.63	3.7	0.13	2.01	0.33
21	6.9	0.65	3.9	0.13	1.92	0.15
32	8.2	0.70	4.6	0.13	1.44	0.22
42	11.5	0.84	6.3	0.15	1.06	0.19
53	11.8	0.94	8.0	0.25	0.69	0.18
64	12.6	0.99	8.7	0.27	0.52	0.23
74	15.2	1.16	12.5	0.26	0.29	0.12
85	17.8	1.36	17.0	0.10	0.17	0.15
106	21.7	1.52	20.2	0.01	0.13	0.09
133	27.4	1.74	23.6	0.00	0.05	0.06
159	32.7	1.94	26.4	0.00	0.03	0.05

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°25.2'N	119°58.0'W	05/23/81	0039 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					2.05	0.41
11					2.13	0.43
21					2.16	0.44
32					1.86	0.52
43					1.75	0.29
53					1.49	0.38
64					0.72	0.27
75					0.52	0.26
85					0.34	0.21
106					0.12	0.11
133					0.08	0.08
160					0.07	0.04

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°25.1'N	119°57.4'W	05/23/81	1630 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					2.77	0.33
11					2.79	0.28
21					3.03	0.39
32					2.35	0.36
43					1.49	0.34
54					1.48	0.36
64					0.44	0.20
75					0.32	0.24
86					0.22	0.13
107					0.13	0.13
134					0.07	0.06
160					0.07	0.04

RV DAVID STARR JORDAN

CALCOFI CRUISE 8105

STATION 90 60

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°25.7'N	119°58.2'W	05/24/81	0010 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					2.70	0.41
11					2.60	0.26
21					2.91	0.38
32					2.06	0.29
43					1.52	0.38
54					1.14	0.41
64					0.39	0.27
75					0.48	0.31
86					0.30	0.15
107					0.16	0.13
134					0.08	0.05
160					0.18	0.07



LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER				
32°30.9'N	118°12.6'W	05/28/81	0827 GMT				
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO	
m	um/1	um/1	um/1	um/1	ug/1	ug/1	
0	1.9	0.28	0.1	0.02	0.24	0.08	
11	2.0	0.28	0.1	0.02	0.23	0.06	
21	2.8	0.34	0.1	0.02	0.34	0.09	
32	3.8	0.41	0.7	0.05	0.71	0.11	
43	9.5	0.90	7.6	0.46	0.74	0.28	
54	9.5	0.93	8.7	0.42	1.09	0.53	
64	16.1	1.27	14.8	0.15	0.40	0.42	
75	20.3	1.46	18.4	0.05	0.13	0.23	
86	23.6	1.59	20.3	0.03	0.05	0.11	
107	28.0	1.82	23.4	0.03	0.01	0.05	
134	34.0	2.04	26.3	0.02	0.03	0.04	
160	37.9	2.13	28.1	0.02	0.01	0.04	

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER				
32°31.0'N	118°13.1'W	05/28/81	2340 GMT				
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO	
m	um/1	um/1	um/1	um/1	ug/1	ug/1	
0					0.23	0.04	
11					0.22	0.04	
21					0.25	0.06	
32					0.85	0.16	
43					1.09	0.31	
54					0.87	0.69	
64					0.27	0.28	
75					0.09	0.16	
86					0.04	0.09	
107					0.01	0.04	
134					0.01	0.04	
160					0.00	0.04	

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER				
32°31.0'N	118°12.7'W	05/29/81	1623 GMT				
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO	
m	um/1	um/1	um/1	um/1	ug/1	ug/1	
0	2.5	0.28	0.1	0.02	0.27	0.04	
11	2.4	0.27	0.1	0.02	0.25	0.04	
21	2.3	0.31	0.1	0.02	0.80	0.13	
32	4.6	0.67	4.0	0.20	1.42	0.48	
43	10.6	1.04	9.9	0.43	1.09	0.52	
54	17.5	1.36	15.4	0.13	0.35	0.32	
64	20.0	1.50	17.9	0.05	0.18	0.27	
75	22.4	1.60	19.5	0.04	0.08	0.20	
86	25.0	1.71	21.6	0.02	0.05	0.10	
107	27.9	1.88	23.5	0.02	0.03	0.05	
134	33.0	2.07	26.3	0.01	0.03	0.05	
160	36.4	2.19	27.8	0.01	0.02	0.04	

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER				
32°31.0'N	118°13.1'W	05/29/81	2348 GMT				
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO	
m	um/1	um/1	um/1	um/1	ug/1	ug/1	
0					0.23	0.03	
11					0.25	0.04	
21					0.54	0.10	
32					1.12	0.20	
43					1.22	0.68	
54					0.85	0.68	
64					0.29	0.43	
75					0.15	0.27	
86					0.07	0.16	
107					0.03	0.08	
134					0.01	0.06	
160					0.01	0.04	

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
32°30.9'N	118°13.0'W	05/30/81	0126 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
10					0.22	0.04
10					0.22	0.04
10					0.22	0.04
10					0.21	0.04
10					0.20	0.04
10					0.20	0.03
35					1.34	0.43
35					1.33	0.40
35					1.26	0.43
35					1.37	0.38
35					1.30	0.50
35					1.42	0.32

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
31°50.9'N	119°33.7'W	05/31/81	1614 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0	2.1	0.43	0.3	0.06	0.90	0.05
11	1.6	0.44	0.3	0.06	0.89	0.06
21	1.5	0.44	0.5	0.07	1.13	0.10
32	5.0	0.63	2.8	0.14	0.68	0.31
43	7.2	0.73	4.9	0.21	0.69	0.38
54	11.5	0.99	8.8	0.53	0.57	0.33
64	12.4	1.05	10.3	0.48	0.31	0.27
75	15.0	1.20	13.3	0.41	0.16	0.20
86	17.3	1.32	16.2	0.12	0.13	0.17
107	23.4	1.63	20.9	0.05	0.08	0.13
134	29.3	1.85	24.3	0.03	0.05	0.12
160	35.4	2.03	27.1	0.02	0.06	0.08

GF/F chlorophyll filter also used for comparison.

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
31°50.8'N	119°34.3'W	05/31/81	2359 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0					1.10	0.16
10					1.12	0.16
21					1.10	0.08
32					0.91	0.06
42					0.48	0.25
53					0.56	0.27
63					0.42	0.24
74					0.23	0.23
84					0.09	0.19
105					0.09	0.15
132					0.06	0.14
158					0.04	0.09

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER			
31°51.5'N	119°34.1'W	06/01/81	1625 GMT			
DEPTH	SI03	PO4	NO3	NO2	CHL	PHAEO
m	um/l	um/l	um/l	um/l	ug/l	ug/l
0	2.4	0.46	0.6	0.07	0.83	0.13
11	2.4	0.46	0.6	0.06	0.87	0.06
21	2.4	0.47	0.6	0.07	0.83	0.06
32	2.3	0.51	1.0	0.08	0.79	0.09
43	2.3	0.78	3.9	0.17	0.72	0.30
54	9.4	0.96	6.0	0.28	1.14	0.57
64	11.5	1.01	8.4	0.41	1.23	0.73
75	13.5	1.12	11.2	0.46	0.20	0.27
86	16.1	1.30	15.4	0.18	0.12	0.19
107	20.7	1.49	19.1	0.07	0.09	0.21
134	30.2	1.90	24.9	0.02	0.04	0.13
160	35.0	2.04	27.3	0.02	0.10	0.09

## RV DAVID STARR JORDAN

CalCOFI Cruise 8105

## Chlorophyll Filter Comparison

STATION	POSITION		DATE	MESSENGER	STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude	Day/Mo/Yr	(GMT)		Latitude	Longitude	Day/Mo/Yr	(GMT)
90 30	33 25.1N	117 54.3W	19/05/81	0901	90 37	33 11.1N	118 23.2W	19/05/81	1339

Depth m	GF/C		GF/F		Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L		Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
1	0.35	0.07	0.38	0.10	0	0.16	0.03	0.18	0.02
8	0.40	0.08	0.42	0.13	9	0.17	0.02	0.18	0.02
17	3.55	0.55	3.11	0.78	20	0.32	0.06	0.38	0.06
28	0.56	0.50	0.52	0.47	29	0.44	0.09	0.48	0.14
48	0.15	0.17	0.17	0.25	49	0.37	0.24	0.45	0.33
72	0.07	0.14	0.07	0.11	74	0.15	0.16	0.16	0.17
98	-	-	0.03	0.08	100	0.04	0.08	0.03	0.07
121	0.02	0.08	0.03	0.08	125	0.01	0.04	0.01	0.05
147	0.03	0.09	0.01	0.06	150	0.01	0.03	0.01	0.04
198	-	-	-	-					

STATION	POSITION		DATE	MESSENGER	STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude	Day/Mo/Yr	(GMT)		Latitude	Longitude	Day/Mo/Yr	(GMT)
90 53	32 39.1N	119 28.9W	21/05/81	2332	90 90	31 25.1N	121 59.4W	24/05/81	2206

Depth m	GF/C		GF/F		Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L		Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
2	0.72	0.06	0.58	0.08	2	0.18	0.04	0.18	0.05
7	0.70	0.05	0.69	0.09	10	0.15	0.04	0.20	0.07
20	1.62	0.30	1.46	0.34	20	0.16	0.04	0.18	0.05
29	1.43	0.47	1.40	0.44	30	0.19	0.06	0.19	0.05
50	0.38	0.32	0.38	0.25	50	0.26	0.09	0.29	0.11
74	0.10	0.10	0.10	0.10	76	0.53	0.35	0.42	0.29
101	0.05	0.07	0.05	0.08	100	0.18	0.20	0.18	0.26
123	0.06	0.08	0.05	0.06	124	0.09	0.16	0.10	0.17
151	0.02	0.08	0.02	0.06	149	0.04	0.06	0.04	0.08
200	0.01	0.04	0.01	0.05	199	0.01	0.01	0.01	0.02

STATION	POSITION		DATE	MESSENGER	STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude	Day/Mo/Yr	(GMT)		Latitude	Longitude	Day/Mo/Yr	(GMT)
93 30	32 50.8N	117 31.9W	28/05/81	0444	93 60	31 51.5N	119 34.1W	01/06/81	1625

Depth m	GF/C		GF/F		Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L		Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	0.20	0.03	0.19	0.06	0	0.83	0.13	0.88	0.13
9	0.21	0.04	0.22	0.06	11	0.87	0.06	0.82	0.09
20	0.30	0.09	0.30	0.07	21	0.83	0.06	1.02	0.20
30	1.63	0.59	1.50	0.51	32	0.79	0.09	0.81	0.20
50	0.14	0.17	0.44	0.47	43	0.72	0.30	0.92	0.34
75	0.07	0.15	0.06	0.15	54	1.14	0.57	1.34	0.72
100	0.02	0.10	0.02	0.07	64	1.23	0.73	1.23	0.83
125	0.02	0.06	0.01	0.09	75	0.20	0.27	0.18	0.23
150	0.01	0.08	0.01	0.08	86	0.12	0.19	0.10	0.16
201	0.02	0.10	0.02	0.10	107	0.09	0.21	0.07	0.16
					134	0.04	0.13	0.02	0.12
					160	0.10	0.09	0.07	0.09

STATION	POSITION		DATE	MESSENGER	STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude	Day/Mo/Yr	(GMT)		Latitude	Longitude	Day/Mo/Yr	(GMT)
93 80	31 10.8N	120 55.2W	25/05/81	2207	97 100	29 55.4N	121 50.6W	04/06/81	1505

Depth m	GF/C		GF/F		Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L		Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
1	0.09	0.03	0.10	0.04	0	0.09	0.02	0.11	0.04
9	0.10	0.02	0.11	0.04	10	0.09	0.02	0.11	0.04
19	0.09	0.03	0.12	0.04	20	0.09	0.03	0.11	0.03
32	0.11	0.03	0.12	0.04	30	-	-	0.11	0.02
50	0.13	0.03	0.13	0.04	49	0.09	0.03	0.11	0.04
75	0.40	0.14	0.40	0.17	75	0.09	0.03	0.12	0.04
99	0.22	0.20	0.21	0.24	99	0.19	0.19	0.22	0.24
125	0.06	0.07	0.06	0.12	125	0.12	0.22	0.10	0.26
150	0.03	0.11	0.01	0.04	151	0.08	0.12	0.07	0.16
200	0.00	0.03	0.00	0.02	200	0.02	0.02	0.01	0.02



STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
100 30	31 41.2N	116 46.6W	06/06/81	1500

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	0.44	0.06	0.40	0.11
9	0.64	0.11	0.55	0.12
20	1.86	0.23	1.60	0.43
30	0.67	0.25	0.68	0.28
50	0.18	0.18	0.21	0.24
75	0.04	0.07	0.06	0.05
100	0.02	0.09	0.04	0.10
125	0.01	0.06	0.02	0.05
150	0.01	0.07	0.01	0.06
200	0.01	0.06	0.01	0.06

STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
103 30	31 06.9N	116 24.7W	07/06/81	1523

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	1.40	0.23	1.38	0.32
10	3.50	0.53	3.46	0.60
20	0.50	0.27	0.59	0.32
30	0.41	0.31	0.41	0.29
39	0.29	0.30	0.30	0.29
46	0.26	0.32	0.21	0.27

STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
103 70	29 46.9N	119 04.4W	08/06/81	1712

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	0.10	0.03	1.51	0.41
10	0.09	0.02	0.11	0.02
20	0.09	0.03	0.11	0.02
30	0.10	0.01	0.12	0.03
49	0.17	0.08	0.25	0.10
75	1.28	0.53	1.46	0.43
100	0.11	0.13	0.15	0.17
125	0.05	0.08	0.05	0.11
150	0.01	0.04	0.01	0.03
200	0.02	0.04	0.01	0.03

STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
107 32	30 27.5N	116 09.8W	11/06/81	0139

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
1	1.28	0.28	1.24	0.34
10	2.81	0.57	2.99	0.69
19	0.90	0.37	0.42	0.29
30	0.56	0.42	0.59	0.41
40	0.23	0.32	0.25	0.33
50	0.22	0.32	0.22	0.28
60	0.16	0.30	0.16	0.22
69	0.13	0.22	0.12	0.19
80	0.09	0.24	0.08	0.22
100	0.06	0.16	0.07	0.17
125	0.04	0.18	0.04	0.19
138	0.04	0.25	0.03	0.24

STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
107 40	30 11.5N	116 41.8W	10/06/81	1834

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	0.09	0.02	0.10	0.02
10	0.11	0.01	0.11	0.02
21	0.09	0.03	0.12	0.03
30	0.12	0.05	0.15	0.06
51	0.50	0.26	0.51	0.30
75	0.14	0.16	0.21	0.32
100	0.05	0.09	0.07	0.12
125	0.02	0.04	0.02	0.04
150	0.01	0.02	0.01	0.04
200	0.00	0.02	0.00	0.02

STATION	POSITION		DATE	MESSENGER
	Latitude	Longitude		
107 80	28 51.5N	119 20.2W	09/06/81	1633

Depth m	GF/C		GF/F	
	Chl-a ug/L	Phaeo ug/L	Chl-a ug/L	Phaeo ug/L
0	0.09	0.00	0.13	0.00
11	0.08	0.00	0.12	0.03
19	0.09	0.01	0.15	0.04
29	0.09	0.01	0.12	0.03
51	0.11	0.03	0.04	0.00
74	0.32	0.17	0.36	0.20
100	0.28	0.16	0.32	0.25
125	0.08	0.16	0.10	0.17
151	0.03	0.05	0.03	0.05
200	0.02	0.03	0.00	0.02

## RV NEW HORIZON

CalCOFI Cruise 8105

## MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
60	50	37 56.7N 122 52.8W	6/4	0845	0848	63	29	491	491
60	52.5	37 51.6N 123 03.8W	6/4	1055	1103	157	71	900	900
60	55	37 46.8N 123 15.3W	6/4	1410	1432	453	216	331	331
60	60	37 36.7N 123 36.6W	6/4	1805	1827	414	212	140	140
60	65	37 26.7N 123 58.3W	6/4	2010	2032	445	213	53	53
60	70	37 16.3N 124 20.1W	6/5	0325	0347	443	215	117	117
60	80	36 56.6N 125 03.7W	6/5	1150	1212	469	199	285	285
63	50	37 22.6N 122 28.4W	6/4	0310	0313	68	21	58	58
63	52	37 17.6N 122 36.4W	6/4	0140	0149	167	83	800	800
63	55	37 12.7N 122 50.1W	6/3	2155	2217	391	211	309	309
63	60	37 02.5N 123 11.9W	6/3	1620	1642	375	218	453	453
63	70	36 42.7N 123 54.8W	6/3	0835	0857	417	211	386	386
67	49	36 49.2N 121 59.2W	6/1	2100	2122	434	205	115	115
67	50	36 47.0N 122 03.4W	6/1	2245	2307	405	214	66	66
67	55	36 36.9N 122 25.2W	6/2	0325	0347	360	214	1791	1774
67	60	36 27.1N 122 46.5W	6/2	0735	0757	359	213	1653	956
67	65	36 17.2N 123 07.9W	6/2	1110	1132	379	206	949	949
67	70	36 07.4N 123 28.6W	6/2	1425	1447	409	208	1121	1121
67	80	35 47.2N 124 11.7W	6/2	2355	0017	398	214	65	65
70	51	36 10.9N 121 43.6W	6/1	1420	1440	402	171	193	193
70	60	35 52.9N 122 22.5W	6/1	0535	0557	450	216	713	713
70	65	35 43.0N 122 43.2W	6/1	0125	0147	446	212	470	470
70	70	35 33.6N 123 01.6W	5/31	2135	2157	434	213	237	168
70	100	34 33.1N 125 11.0W	5/31	0120	0142	447	214	29	29
73	50	35 38.5N 121 15.3W	5/28	2045	2048	70	27	6102	5917
73	53	35 32.6N 121 28.0W	5/29	0040	0101	419	208	391	391
73	60	35 18.6N 121 57.9W	5/29	0640	0702	420	216	342	342
73	65	35 08.7N 122 18.7W	5/29	0945	1007	410	210	422	422
73	80	34 38.4N 123 22.0W	5/30	0440	0502	422	215	73	73
73	90	34 18.6N 124 03.8W	5/30	1120	1141	410	211	63	63
73	100	33 58.4N 124 45.4W	5/30	1725	1746	422	216	23	23
77	48	35 07.3N 120 42.4W	5/28	1610	1612	54	20	147	147
77	51	35 01.4N 120 55.2W	5/28	1245	1308	393	211	518	518
77	55	34 53.3N 121 12.2W	5/28	0825	0846	406	214	280	261
77	60	34 43.4N 121 33.2W	5/28	0445	0507	362	214	723	723
77	65	34 33.3N 121 53.9W	5/28	0005	0027	388	213	322	322
77	70	34 23.7N 122 14.8W	5/27	1830	1851	358	212	341	341
77	80	34 03.2N 122 56.6W	5/27	1220	1244	463	201	671	671
77	90	33 43.3N 123 38.0W	5/27	0610	0632	417	217	43	43
77	100	33 23.5N 124 19.5W	5/27	0020	0043	440	208	38	38
80	51	34 27.0N 120 31.2W	5/25	0555	0603	170	65	117	117
80	55	34 18.7N 120 48.0W	5/25	0840	0902	418	204	268	268
80	60	34 09.3N 121 08.8W	5/25	1330	1353	360	217	622	622
80	70	33 48.9N 121 50.8W	5/25	2125	2146	340	211	515	515
80	80	33 28.8N 122 31.7W	5/26	0415	0437	363	214	126	88
80	90	33 09.0N 123 13.3W	5/26	1120	1141	389	216	159	61
80	100	32 49.1N 123 54.5W	5/26	1730	1751	385	211	31	31
82	46	34 16.2N 119 56.4W	5/25	0115	0137	373	212	193	193
83	40.6	34 14.0N 119 24.4W	5/24	1435	1438	66	20	196	196
83	42	34 10.7N 119 30.5W	5/24	1255	1307	215	103	297	297

## RV NEW HORIZON

CalCOFI Cruise 8105

## MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
83	51	33 52.7N 120 07.8W	5/24	0535	0550	279	146	139	139
83	55	33 44.7N 120 24.6W	5/24	0240	0304	454	218	160	160
83	60	33 34.8N 120 45.2W	5/23	2200	2222	405	209	863	863
83	70	33 15.2N 121 25.8W	5/23	1445	1510	473	216	613	613
83	80	32 54.6N 122 07.4W	5/23	0755	0817	464	213	256	256
83	90	32 34.7N 122 48.6W	5/23	0120	0143	457	221	17	17
83	100	32 14.6N 123 29.5W	5/22	1755	1817	431	215	51	51
87	33	33 53.4N 118 29.6W	5/20	0530	0537	118	51	423	423
87	35	33 49.2N 118 37.8W	5/20	1100	1122	465	211	118	118
87	40	33 39.1N 118 59.5W	5/20	1730	1752	423	180	118	118
87	45	33 29.5N 119 19.0W	5/20	2015	2036	428	215	144	144
87	50	33 19.4N 119 39.8W	5/21	0230	0240	202	77	331	331
87	55	33 09.3N 120 00.5W	5/21	0545	0609	478	216	167	167
87	60	32 59.1N 120 21.2W	5/21	1050	1113	481	203	305	305
87	80	32 19.3N 121 42.9W	5/21	2155	2217	427	214	271	271
87	90	31 58.8N 122 22.0W	5/22	0420	0442	444	211	166	166
87	100	31 39.4N 123 04.3W	5/22	1050	1112	430	213	53	53

## RV DAVID STARR JORDAN

CalCOFI Cruise 8105

## MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
90	28	33 29.1N 117 46.1W	5/19	0650	0655	108	49	315	315
90	30	33 25.1N 117 54.3W	5/19	0955	1017	389	205	154	154
90	37	33 11.1N 118 23.2W	5/19	1440	1501	384	208	52	52
90	45	32 55.0N 119 09.0W	5/21	1930	1952	393	214	175	175
90	47	32 54.7N 119 09.1W	5/19	2053	2114	368	190		190
"	"	32 54.7N 119 09.4W	5/19	2133	2154	383	193		305
"	"	32 54.5N 119 09.7W	5/19	2210	2231	373	193		375
"	"	32 55.0N 119 09.0W	5/20	0135	0156	385	174		392
"	"	32 54.5N 119 10.0W	5/20	0215	0236	361	181		349
"	"	32 54.2N 119 10.3W	5/20	0255	0316	362	191		564
"	"	32 54.9N 119 09.1W	5/20	0705	0726	393	198		300
"	"	32 54.7N 119 09.6W	5/20	0740	0801	380	205		342
"	"	32 54.8N 119 09.9W	5/20	0815	0836	395	208		354
"	"	32 54.6N 119 08.3W	5/20	1155	1216	386	201		305
"	"	32 54.2N 119 08.2W	5/20	1225	1246	395	219		255
"	"	32 53.7N 119 08.2W	5/20	1305	1326	382	174		342
"	"	32 55.0N 119 09.1W	5/20	2010	2031	385	198		387
"	"	32 54.5N 119 09.6W	5/20	2050	2111	403	212		342
"	"	32 54.3N 119 09.7W	5/20	2125	2146	405	205		198
"	"	32 55.1N 119 08.5W	5/21	0210	0231	395	189		238
"	"	32 55.1N 119 09.0W	5/21	0250	0311	398	197		276



## RV DAVID STARR JORDAN

CalCOFI Cruise 8105

## MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
90	47	32 55.3N 119 09.7W	5/21	0405	0426	392	212		283
"	"	32 54.6N 119 08.9W	5/21	0810	0831	396	208		230
"	"	32 54.3N 119 09.1W	5/21	0840	0902	407	222		229
"	"	32 54.1N 119 09.5W	5/21	0915	0936	393	201		214
"	"	32 54.6N 119 08.0W	5/21	1305	1326	391	193		281
"	"	32 54.6N 119 08.4W	5/21	1335	1356	377	180		257
"	"	32 54.7N 119 08.8W	5/21	1410	1431	387	223		253
90	53	32 39.1N 119 28.9W	5/22	0010	0032	422	206		
90	60	32 25.1N 119 57.6W	5/22	0540	0602	371	214	194	194
"	"	32 25.5N 119 57.9W	5/22	0710	0731	397	216	507	507
"	"	32 24.8N 119 58.7W	5/22	0750	0812	403	197		1068
"	"	32 24.5N 119 59.1W	5/22	0825	0846	449	189		828
"	"	32 24.8N 119 57.5W	5/22	1320	1343	411	176		
"	"	32 24.8N 119 58.0W	5/22	1400	1422	395	176		511
"	"	32 24.6N 119 58.3W	5/22	1425	1447	395	190		759
"	"	32 25.0N 119 58.0W	5/22	2005	2026	406	187		527
"	"	32 24.6N 119 58.7W	5/22	2045	2106	390	189		626
"	"	32 24.5N 119 59.0W	5/22	2125	2146	391	197		568
"	"	32 25.0N 119 56.5W	5/23	0210	0232	395	174		524
"	"	32 25.1N 119 57.1W	5/23	0245	0307	411	178		448
"	"	32 25.1N 119 57.5W	5/23	0325	0347	417	194		604
"	"	32 24.8N 119 57.6W	5/23	0710	0731	392	205		911
"	"	32 24.5N 119 58.2W	5/23	0740	0801	390	193		1003
"	"	32 24.1N 119 59.3W	5/23	0845	0906	400			1015
"	"	32 25.4N 119 57.6W	5/23	1325	1346	386	174		930
"	"	32 25.3N 119 58.1W	5/23	1355	1417	429	178		611
"	"	32 25.1N 119 58.4W	5/23	1430	1442	391	168		954
"	"	32 24.7N 119 57.9W	5/23	2005	2026	365	193		1005
"	"	32 25.0N 119 58.6W	5/23	2040	2101	377	204		759
"	"	32 25.4N 119 59.1W	5/23	2115	2136	384	198		536
"	"	32 25.2N 119 57.6W	5/24	0205	0226	349	174		926
"	"	32 25.3N 119 58.0W	5/24	0240	0301	339	166		1035
"	"	32 25.3N 119 58.2W	5/24	0315	0336	356	174		
90	70	32 05.1N 120 38.3W	5/24	0955	1016	424	211	191	191
90	80	31 45.1N 121 18.9W	5/24	1550	1612	398	208	113	113
90	90	31 25.1N 121 59.4W	5/24	2040	2102	439	205	66	66
90	100	31 05.1N 122 39.7W	5/25	0425	0446	391	213	143	143
93	26.7	32 57.4N 117 18.3W	5/28	0125	0131	118	55	414	414
93	28	32 54.8N 117 23.7W	5/28	0250	0312	408	198	112	112
93	30	32 50.8N 117 31.9W	5/28	0520	0541	391	209	122	122
93	35	32 40.8N 117 52.4W	5/28	0825	0846	405	205	163	163
93	40	32 30.8N 118 12.8W	5/28	1235	1257	392	203	50	50
"	"	32 31.7N 118 14.1W	5/28	1335	1356	387	193		82
"	"	32 30.8N 118 12.9W	5/28	1430	1451	403	170		107
"	"	32 30.9N 118 13.6W	5/28	1455	1516	385	174		96
"	"	32 30.7N 118 12.9W	5/28	2005	2026	433	204		76
"	"	32 30.6N 118 13.1W	5/28	2045	2106	406	204		79
"	"	32 30.6N 118 13.3W	5/28	2125	2146	393	205		84
"	"	32 30.8N 118 11.8W	5/29	0205	0226	392	181		84
"	"	32 30.9N 118 12.4W	5/29	0235	0256	397	151		106

## RV DAVID STARR JORDAN

CalCOFI Cruise 8105

MACROZOOPLANKTON BIOMASS  
Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
93	40	32 30.9N 118 13.1W	5/29	0315	0336	387	164		116
"	"	32 30.8N 118 12.9W	5/29	0700	0721	401	212		97
"	"	32 30.7N 118 13.2W	5/29	0735	0756	390	212		118
"	"	32 30.7N 118 14.1W	5/29	0810	0831	393	205		122
"	"	32 31.6N 118 12.7W	5/29	1305	1326	381	184		139
"	"	32 31.7N 118 13.4W	5/29	1340	1401	393	177		94
"	"	32 31.7N 118 14.1W	5/29	1415	1436	383	174		73
"	"	32 30.8N 118 12.6W	5/29	2010	2031	399	191		125
"	"	32 30.8N 118 12.9W	5/29	2045	2106	395	198		94
"	"	32 30.8N 118 12.9W	5/29	2125	2146	377	205		93
"	"	32 31.2N 118 12.9W	5/30	0205	0226	388	163		111
"	"	32 31.2N 118 13.6W	5/30	0240	0301	378	181		132
"	"	32 31.4N 118 14.0W	5/30	0320	0341	367	193		142
"	"	32 30.4N 118 13.3W	5/30	0540	0601	386	212		174
"	"	32 30.1N 118 13.9W	5/30	0620	0641	399	204		145
"	"	32 31.2N 118 14.5W	5/30	0655	0716	393	205		168
93	45	32 20.8N 118 33.3W	5/30	1145	1207	397	209	297	297
93	50	32 10.8N 118 53.6W	5/30	1545	1606	385	212	262	261
93	55	32 00.8N 119 14.0W	5/30	1940	2002	401	217	227	227
93	60	31 50.8N 119 34.3W	5/30	2255	2316	437	207	180	180
"	"	31 51.7N 119 35.9W	5/31	0205	0226	403	174		387
"	"	31 52.0N 119 36.5W	5/31	0240	0301	406	180		268
"	"	31 52.1N 119 36.9W	5/31	0310	0331	414	189		213
"	"	31 50.6N 119 34.4W	5/31	0705	0726	417	230		350
"	"	31 50.4N 119 34.2W	5/31	0740	0801	400	221		250
"	"	31 50.2N 119 34.4W	5/31	0815	0836	424	223		210
"	"	31 51.5N 119 33.9W	5/31	1315	1336	408	155		270
"	"	31 51.9N 119 34.3W	5/31	1350	1411	395	177		332
"	"	31 52.1N 119 34.5W	5/31	1420	1446	391	177		381
"	"	31 50.8N 119 34.3W	5/31	2005	2026	423	233		288
"	"	31 50.9N 119 34.5W	5/31	2040	2101	402	230		279
"	"	31 51.0N 119 34.8W	5/31	2115	2136	428	233		236
"	"	31 49.8N 119 32.7W	6/1	0215	0236	407	163		270
"	"	31 50.1N 119 33.2W	6/1	0245	0306	399	181		296
"	"	31 50.3N 119 33.5W	6/1	0325	0346	392	181		730
"	"	31 50.8N 119 34.3W	6/1	0700	0721	408	230		547
"	"	31 51.2N 119 34.4W	6/1	0730	0751	395	212		415
"	"	31 51.3N 119 34.8W	6/1	0800	0821	403	230		382
"	"	31 52.0N 119 34.2W	6/1	1340	1401	403	184		521
"	"	31 52.1N 119 34.6W	6/1	1415	1436	399	177		353
"	"	31 52.5N 119 35.0W	6/1	1450	1511	391	174		381
"	"	31 50.9N 119 34.3W	6/1	2005	2026	396	205		285
"	"	31 51.1N 119 34.6W	6/1	2040	2101	399	226		221
"	"	31 51.2N 119 35.0W	6/1	2115	2136	398	198		291
93	70	31 30.8N 120 14.8W	5/26	0500	0522	364	217	433	433
93	80	31 10.8N 120 55.2W	5/25	2035	2056	412	208	72	72
93	90	30 50.8N 121 35.4W	5/25	1600	1622	398	212	102	102
93	100	30 30.8N 122 15.5W	5/25	1000	1022	422	212	94	94
97	29	32 17.4N 117 04.8W	6/2	1035	1039	86	34	557	557
97	30	32 15.4N 117 08.8W	6/2	1240	1245	85	41	389	389
97	32	32 11.4N 117 17.0W	6/2	1420	1442	385	203	52	52



## RV DAVID STARR JORDAN

CalCOFI Cruise 8105

## MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505 mm

Line	Sta.	Position	Date Mo/Day	Time (GMT)		Water Volume Strained (m <sup>3</sup> )	Max. Tow Depth (m)	Volume per 1000 m <sup>3</sup> Strained	
				Start	End			Total (cm <sup>3</sup> )	Small (cm <sup>3</sup> )
97	35	32 05.0N 117 29.2W	6/2	1635	1656	398	208	65	65
97	40	31 55.4N 117 49.5W	6/2	2145	2207	384	204	72	72
97	45	31 45.4N 118 09.8W	6/3	0100	0122	407	203	127	127
97	50	31 35.4N 118 30.1W	6/3	0515	0537	409	211	154	154
97	55	31 25.4N 118 50.3W	6/3	0830	0851	413	213	118	118
97	60	31 15.4N 119 10.5W	6/3	1330	1351	395	207	53	53
97	70	30 55.4N 119 50.7W	6/3	2035	2056	429	212	11	11
97	80	30 35.4N 120 30.8W	6/3	0325	0346	415	212	57	57
97	90	30 15.4N 121 10.8W	6/4	0945	1006	419	206	62	62
97	100	29 55.4N 121 50.6W	6/4	1545	1606	407	209	19	19
100	29.2	31 42.8N 116 43.4W	6/6	1725	1733	137	70	117	117
100	30	31 41.2N 116 46.6W	6/6	1540	1601	404	201	69	69
100	35	31 31.2N 117 06.9W	6/6	1130	1152	406	210	61	61
100	40	31 21.2N 117 27.1W	6/6	0830	0852	395	208	131	131
100	45	31 11.2N 117 47.1W	6/6	0445	0506	410	205	48	48
100	50	31 01.2N 118 07.3W	6/6	0135	0157	392	205	96	96
100	60	30 41.2N 118 47.5W	6/5	1915	1936	423	203	28	28
100	70	30 21.2N 119 27.5W	6/5	1230	1252	412	203	60	60
100	80	30 01.2N 120 07.4W	6/5	0610	0631	410	207	48	48
100	90	29 41.2N 120 47.1W	6/5	0010	0032	395	204	35	35
103	29	31 08.9N 116 20.5W	6/7	1355	1357	39	14	204	204
103	30	31 06.9N 116 24.5W	6/7	1550	1555	105	48	142	142
103	35	30 56.9N 116 44.6W	6/7	1920	1941	387	211	49	49
103	40	30 46.9N 117 04.7W	6/7	2315	2336	375	211	42	42
103	45	30 36.9N 117 24.7W	6/8	0215	1237	386	208	23	23
103	50	30 26.9N 117 44.7W	6/8	0600	0622	396	216	50	50
103	60	30 06.9N 118 24.7W	6/8	1155	1217	387	211	56	56
103	70	29 46.9N 119 04.4W	6/8	1745	1807	389	213	56	56
103	80	29 26.9N 119 44.1W	6/9	0015	0036	401	203	373	373
103	90	29 06.0N 120 23.6W	6/9	0540	0602	395	215	55	55
107	31	30 29.5N 116 05.8W	6/11	0325	0327	38	14	80	80
107	32	30 27.5N 116 09.8W	6/11	0200	0211	205	103	185	185
107	35	30 21.5N 116 21.8W	6/10	2310	2331	380	208	57	57
107	40	30 11.5N 116 41.8W	6/10	1950	2012	407	208	56	56
107	45	30 01.5N 117 01.7W	6/10	1500	1521	413	200	38	38
107	50	29 51.5N 117 21.6W	6/10	1140	1202	401	212	59	59
107	60	29 31.5N 118 01.3W	6/10	0545	0607	434	206	48	48
107	70	29 11.5N 118 40.8W	6/10	0000	0021	397	204	385	385
107	80	28 51.5N 119 20.3W	6/9	1705	1727	392	216	30	30
107	90	28 31.5N 119 59.5W	6/9	1110	1131	412	209	24	24
110	32.4	29 52.4N 115 49.5W	6/11	0835	0839	76	34	609	609
110	35	29 47.2N 115 59.8W	6/11	1020	1041	389	211	102	102
110	40	29 37.2N 116 19.7W	6/11	1425	1447	408	198	53	53
110	45	29 27.2N 116 39.5W	6/11	1710	1731	419	208	52	52
110	50	29 17.2N 116 59.2W	6/11	2135	2156	404	211	27	27
110	60	28 57.2N 117 38.7W	6/12	0345	0407	391	218	61	61
110	70	28 37.2N 118 18.0W	6/12	1010	1032	405	211	135	135
110	80	28 17.2N 118 57.2W	6/12	1625	1646	412	213	43	43