

# data report

## PHYSICAL OCEANOGRAPHIC DATA

CalCOFI Cruise 8012  
26 November - 20 December 1980

CalCOFI Cruise 8101  
8 - 31 January 1981

CalCOFI Cruise 8102  
13 February - 10 March 1981

CalCOFI Cruise 8104  
1 - 27 April 1981

SIO Reference 85-9  
17 June 1985

UNIVERSITY OF CALIFORNIA  
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL OCEANOGRAPHIC DATA

CalCOFI Cruise 8012  
26 November - 20 December 1980

CalCOFI Cruise 8101  
8 - 31 January 1981

CalCOFI Cruise 8102  
13 February - 10 March 1981

and

CalCOFI Cruise 8104  
1 - 27 April 1981

SIO Reference 85-9  
17 June 1985

Approved for distribution:

  
W. A. Nierenberg, Director

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## INTRODUCTION

The data in this report were collected during Cruises 8012\*, 8101, 8102, and 8104 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.

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

## STANDARD PROCEDURES

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

CTD lowerings were made on cardinal CalCOFI line stations on all cruises except 8012 *New Horizon*. Temperature and salinity corrections were applied to the CTD data, based upon comparisons with shallow and deep Nansen cast data or rosette cast data (8102 *New Horizon*).

### *Hydrographic Cast Data*

The hydrographic casts were lowered on cardinal CalCOFI line stations on cruise 8012 *New Horizon*. The casts consisted of 18 or fewer Nansen bottles lowered to a maximum sampling depth of 500 meters, bottom depth permitting. Temperature and salinity were determined for all depths sampled.

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

Salinity samples were analyzed at sea on inductive-type salinometers standardized with Wormley Standard Seawater. The salinity values are reported to three decimal places.

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

## TABULATED DATA

The time reported is Greenwich Mean Time. For CTD lowerings it is the "start down" time and for Nansen casts it is the time of messenger release.

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 Nansen casts and appear in three forms:

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

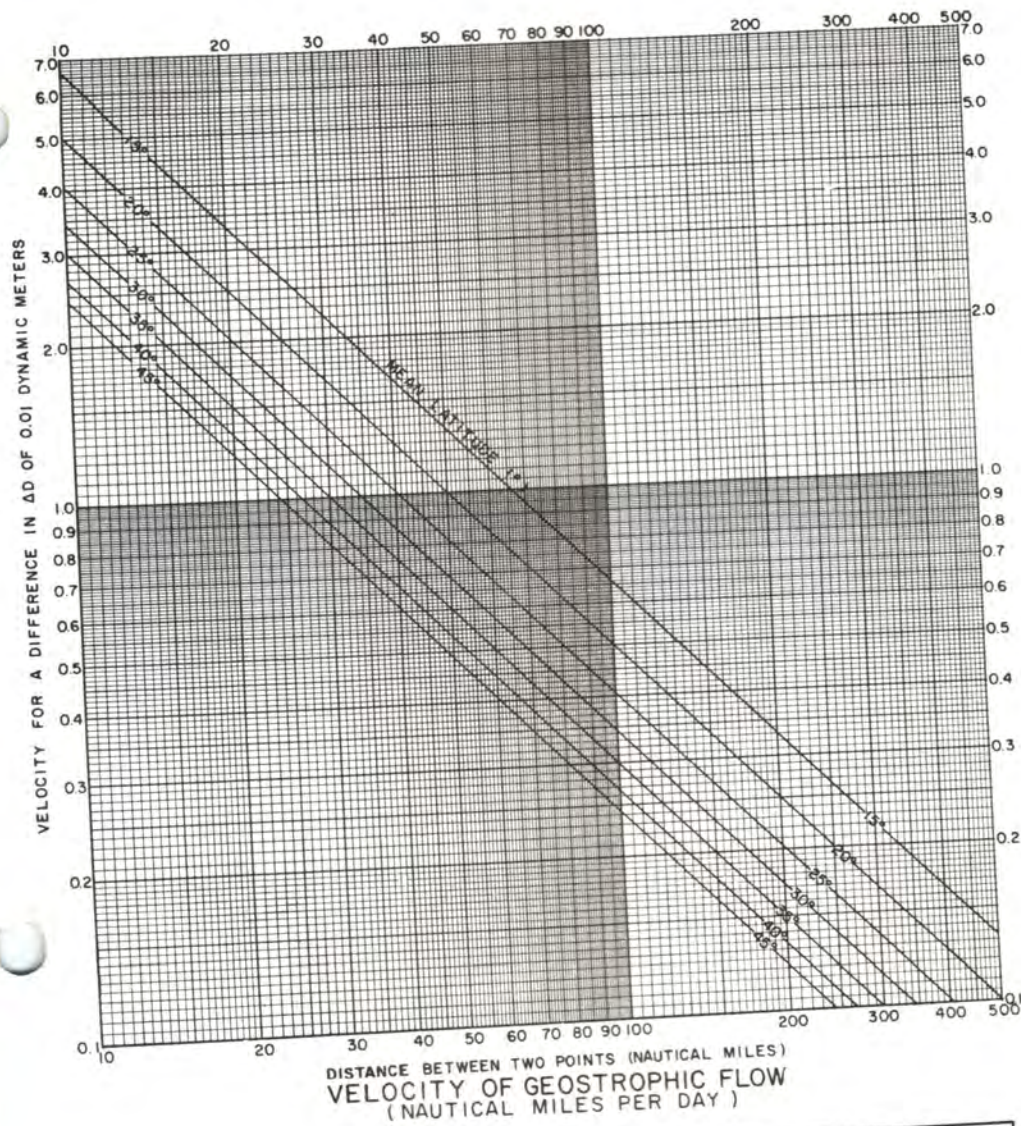
\* The first two digits represent the year and the second two digits the month of the cruise.

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.

#### LITERATURE CITED

- Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14, 17 pp.
- Matthews, D. J., 1939. Tables of the velocity of sound in pure water and seawater for use in echosounding and sound-ranging. Second Edition. Hydrographic Department, Admiralty, H. D. 282, 52 pp.
- Scripps Institution of Oceanography, University of California, 1984. Physical, Chemical and Biological Data, CalCOFI Cruise 8401, 4-27 January 1984. SIO Ref. No. 84-18, 120 pp.
- UNESCO, 1981. Background papers and supporting data on the International Equation of State 1980. UNESCO Tech. Pap. in Mar. Sci., No. 38, 192 pp.



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

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

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

## FIGURES

### Cruise 8102

1. CalCOFI Cruise 8102, 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 temperature at 200 meters.
8. Horizontal distribution of salinity at 200 meters.
9. Horizontal distribution of sigma-theta at 200 meters.

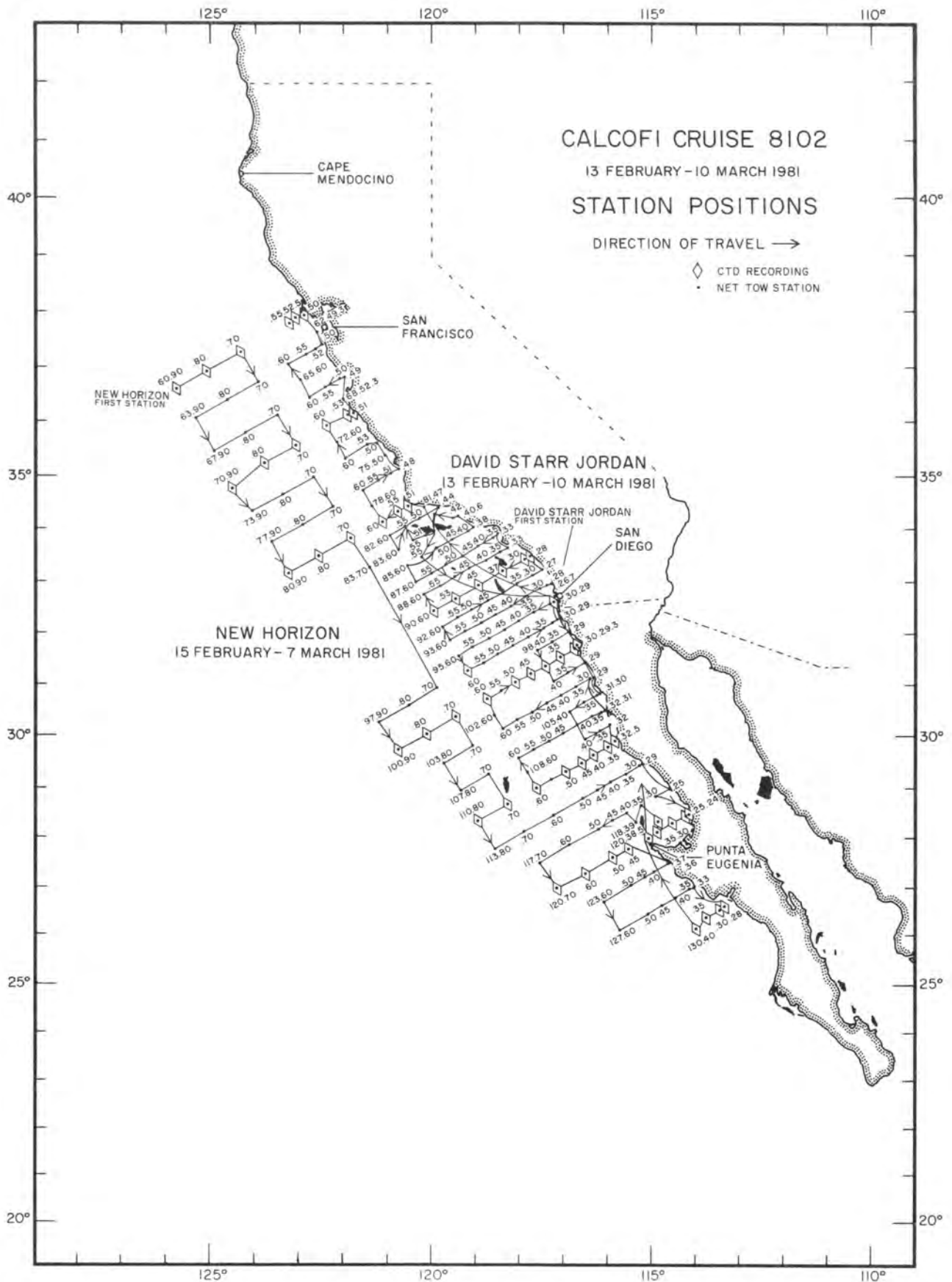


FIGURE 1



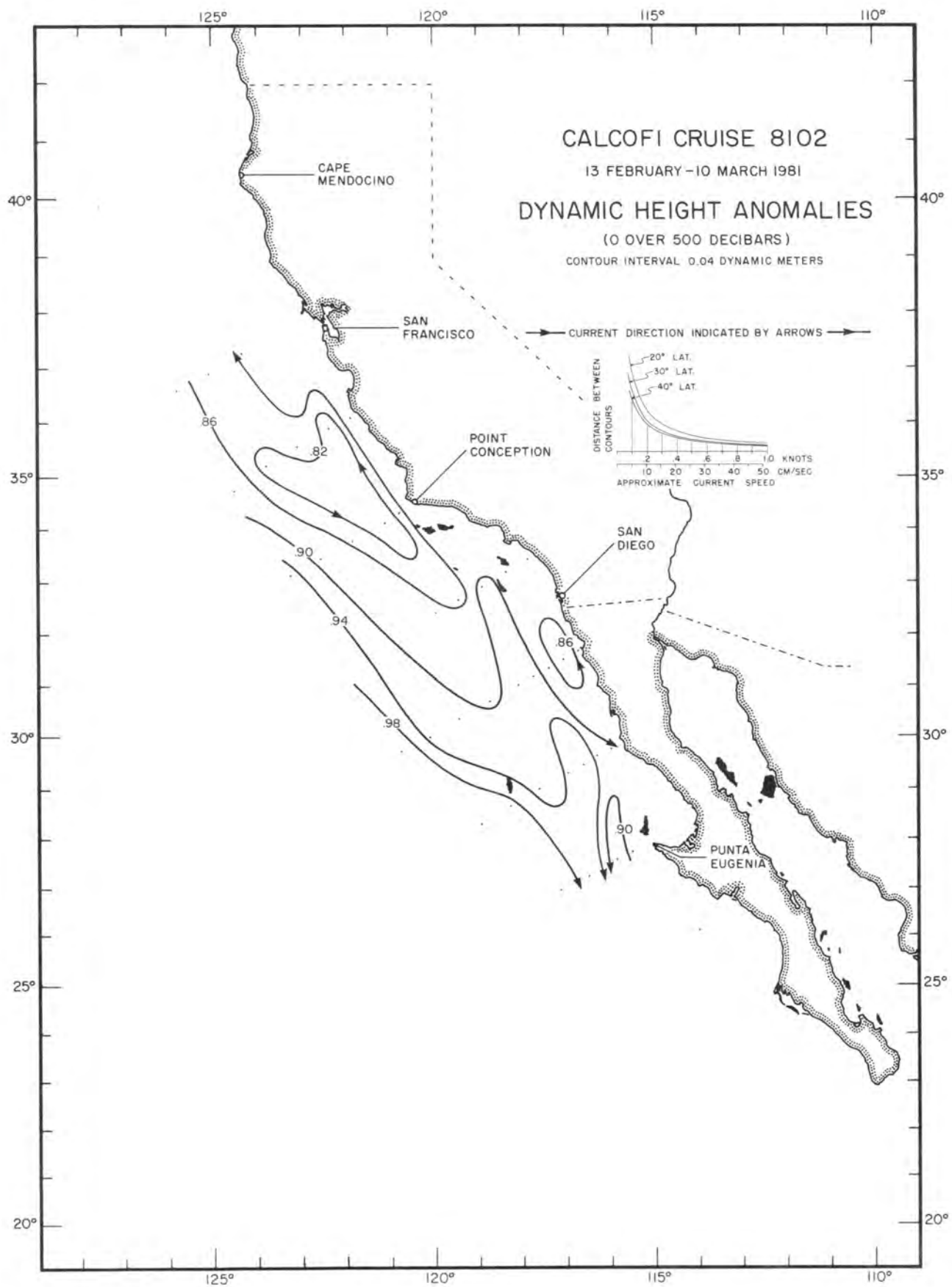


FIGURE 2

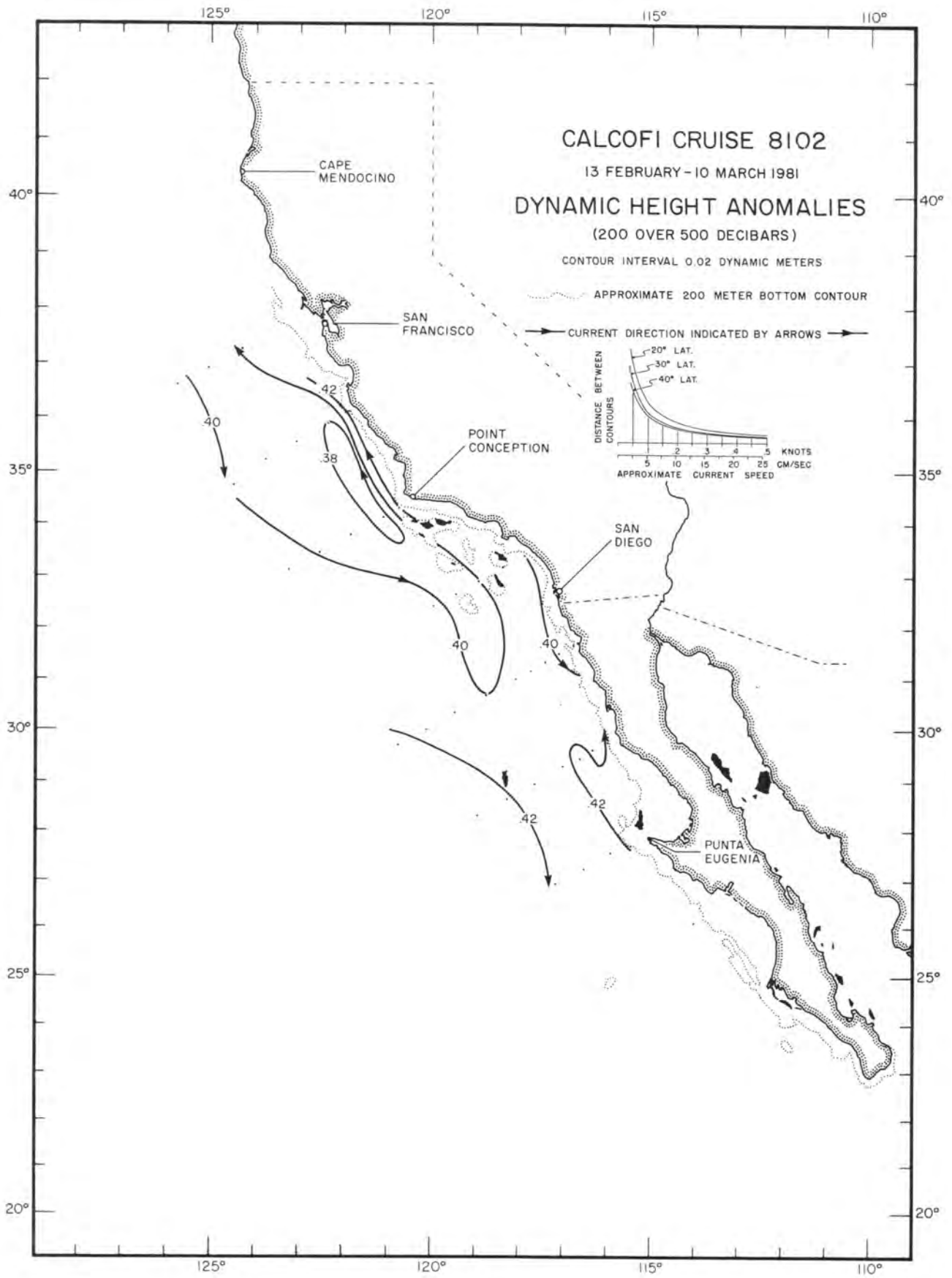


FIGURE 3

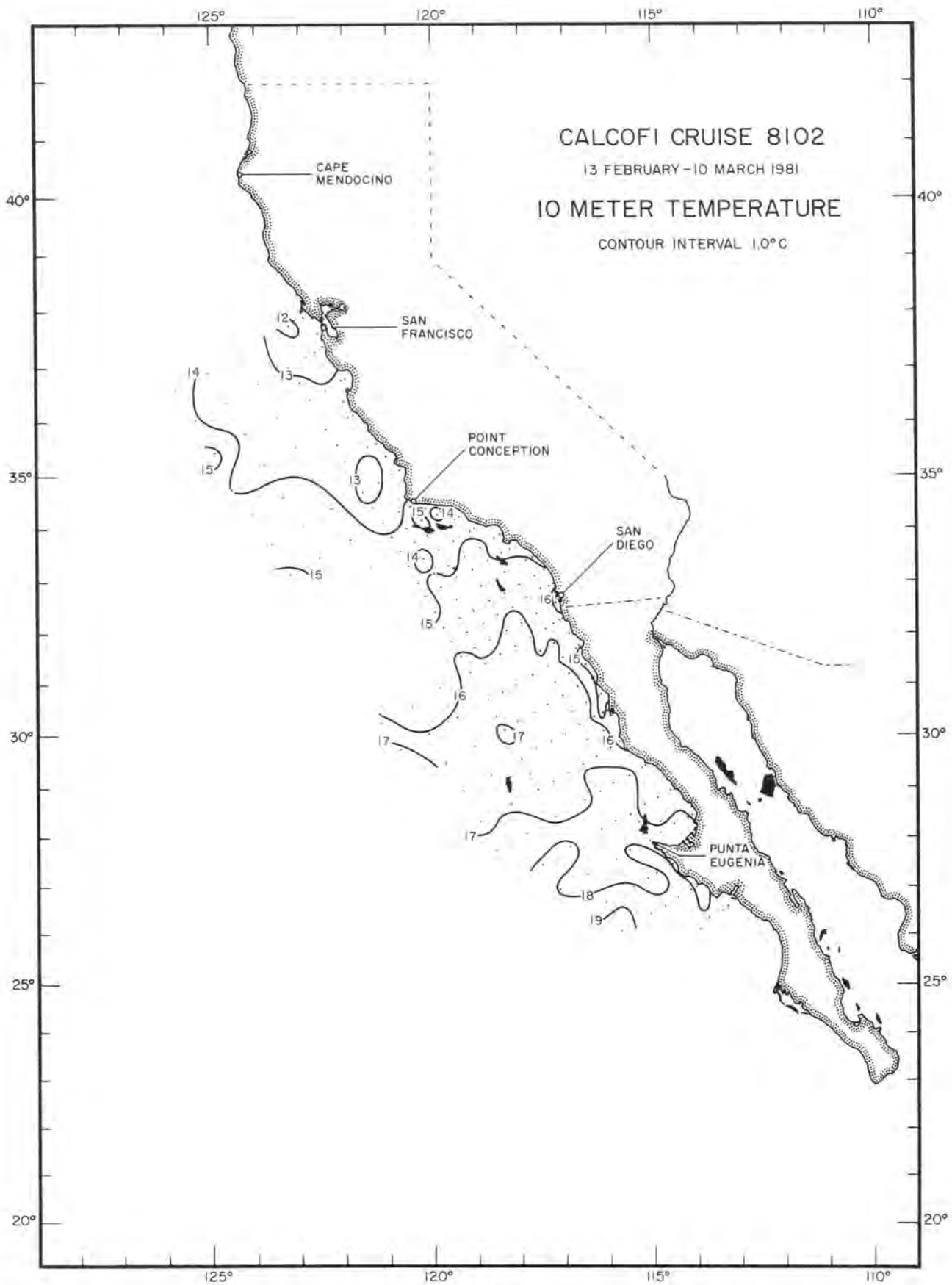


FIGURE 4

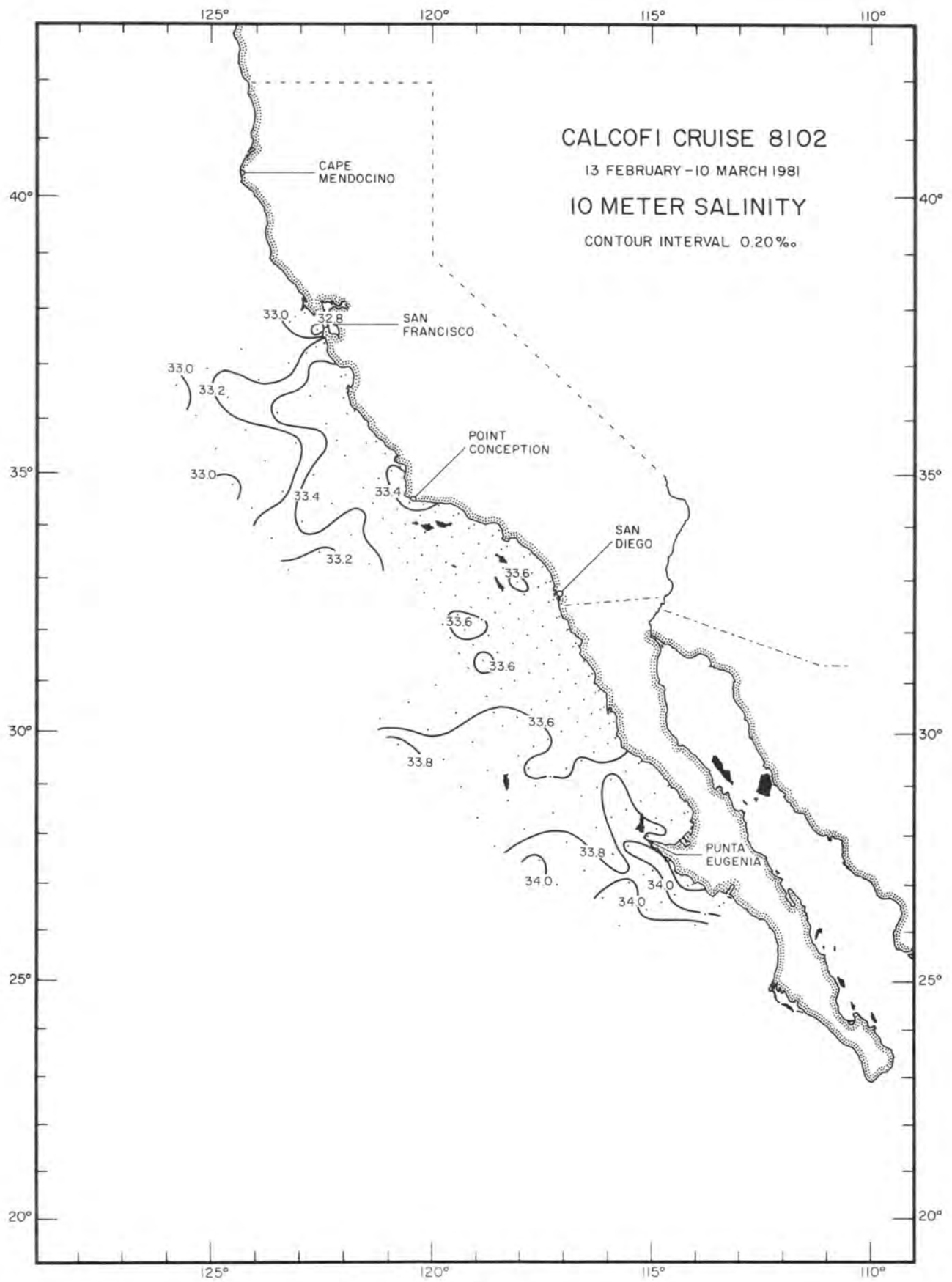


FIGURE 5

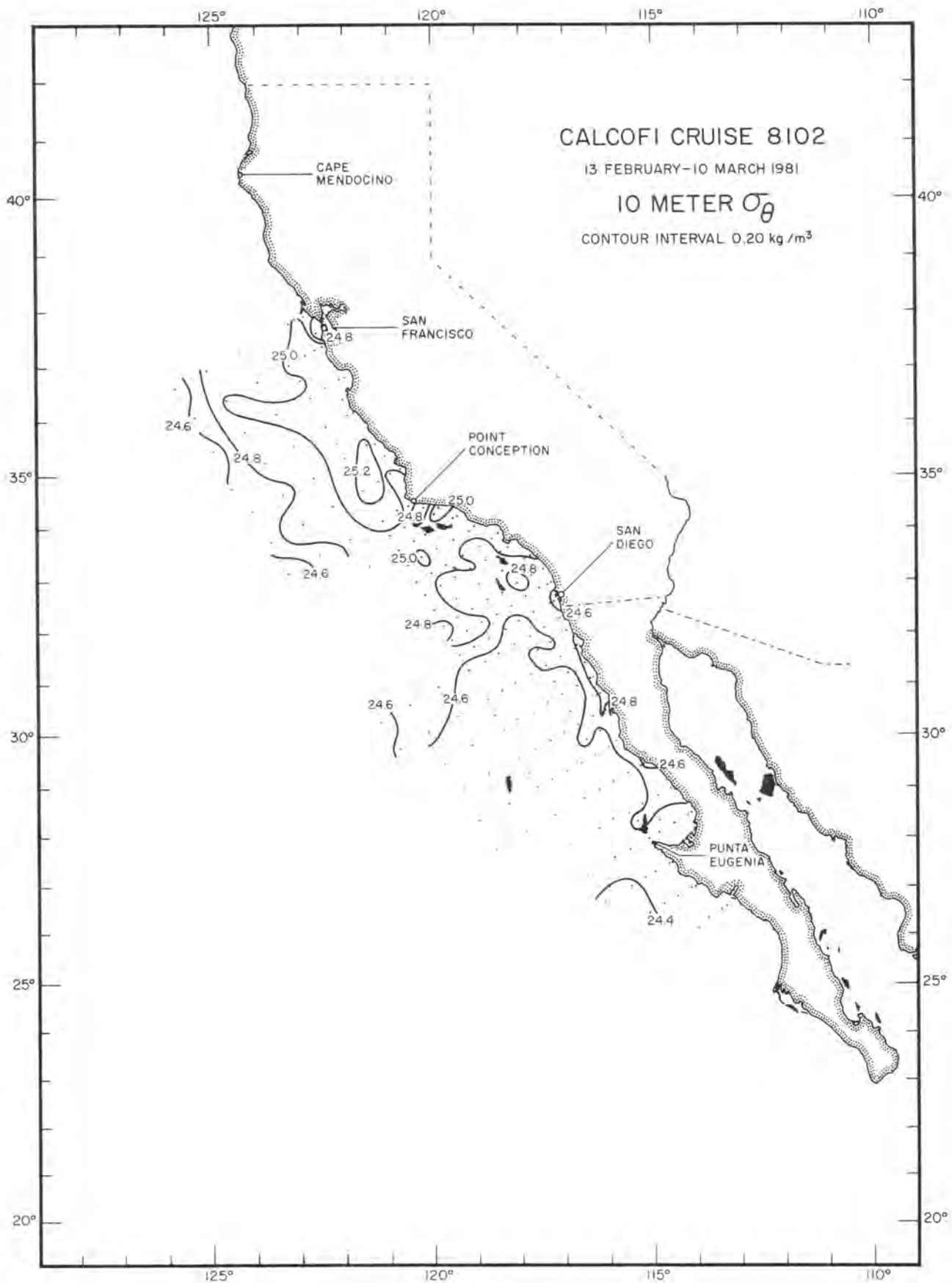


FIGURE 6

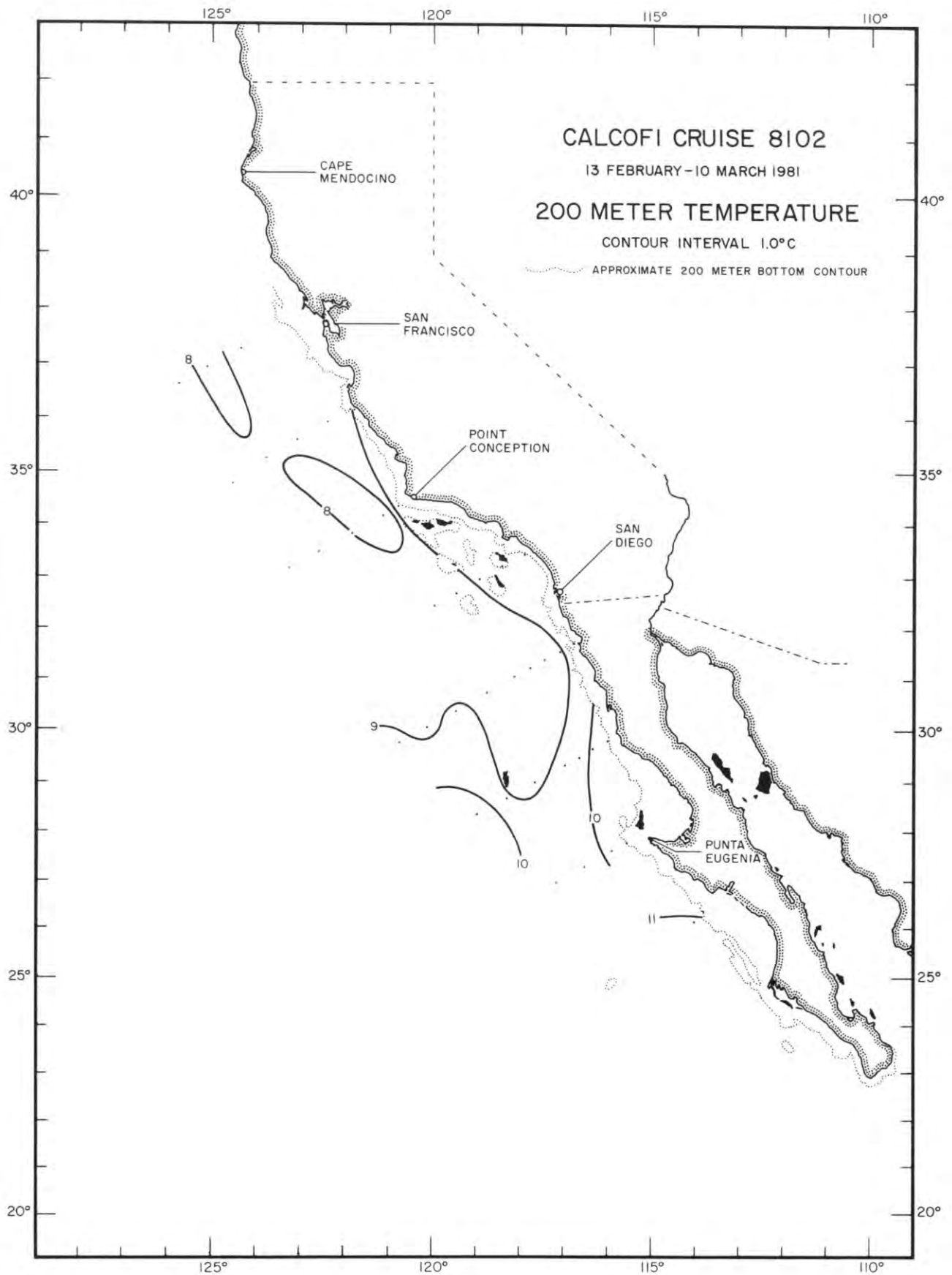


FIGURE 7

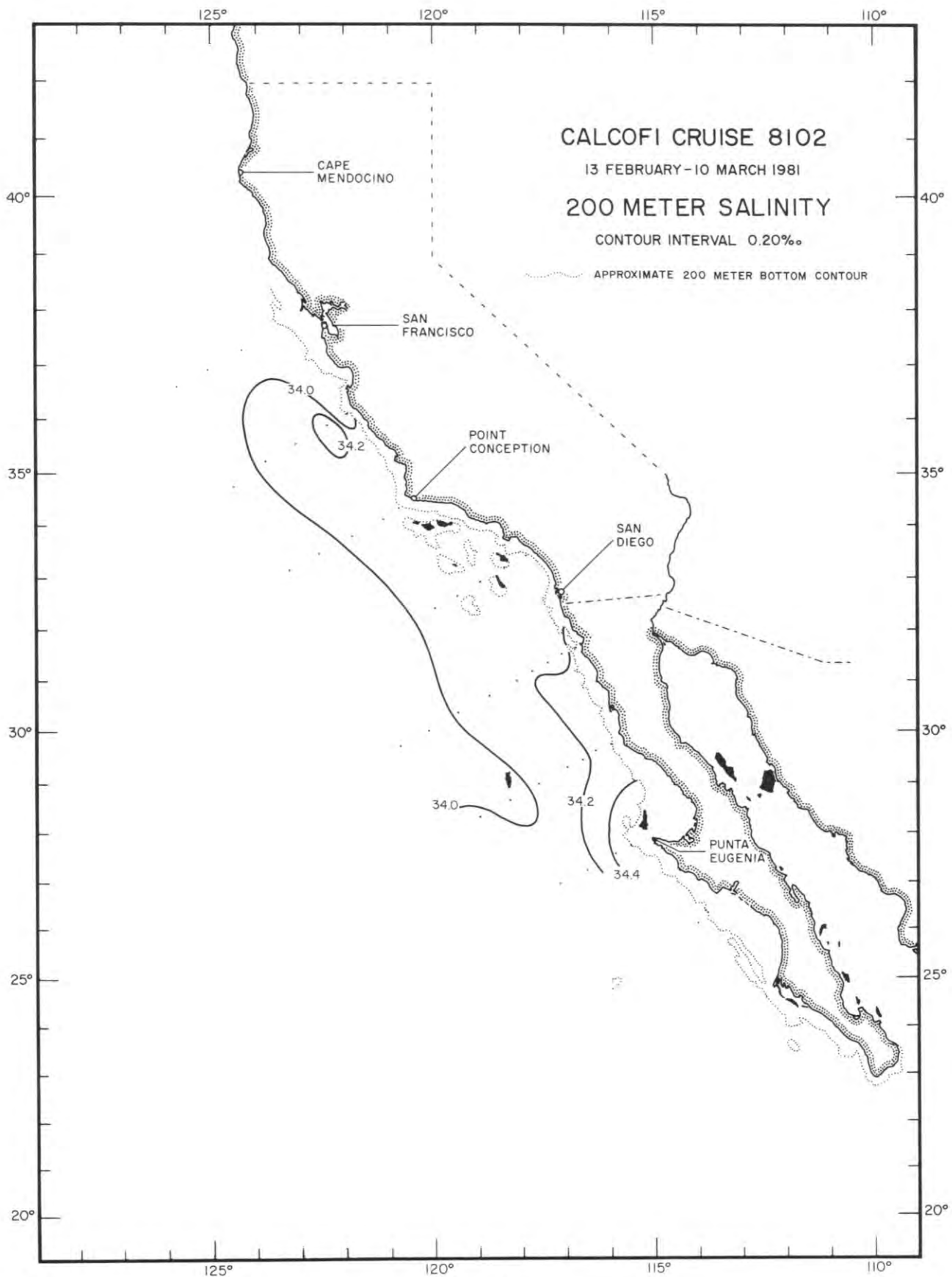


FIGURE 8

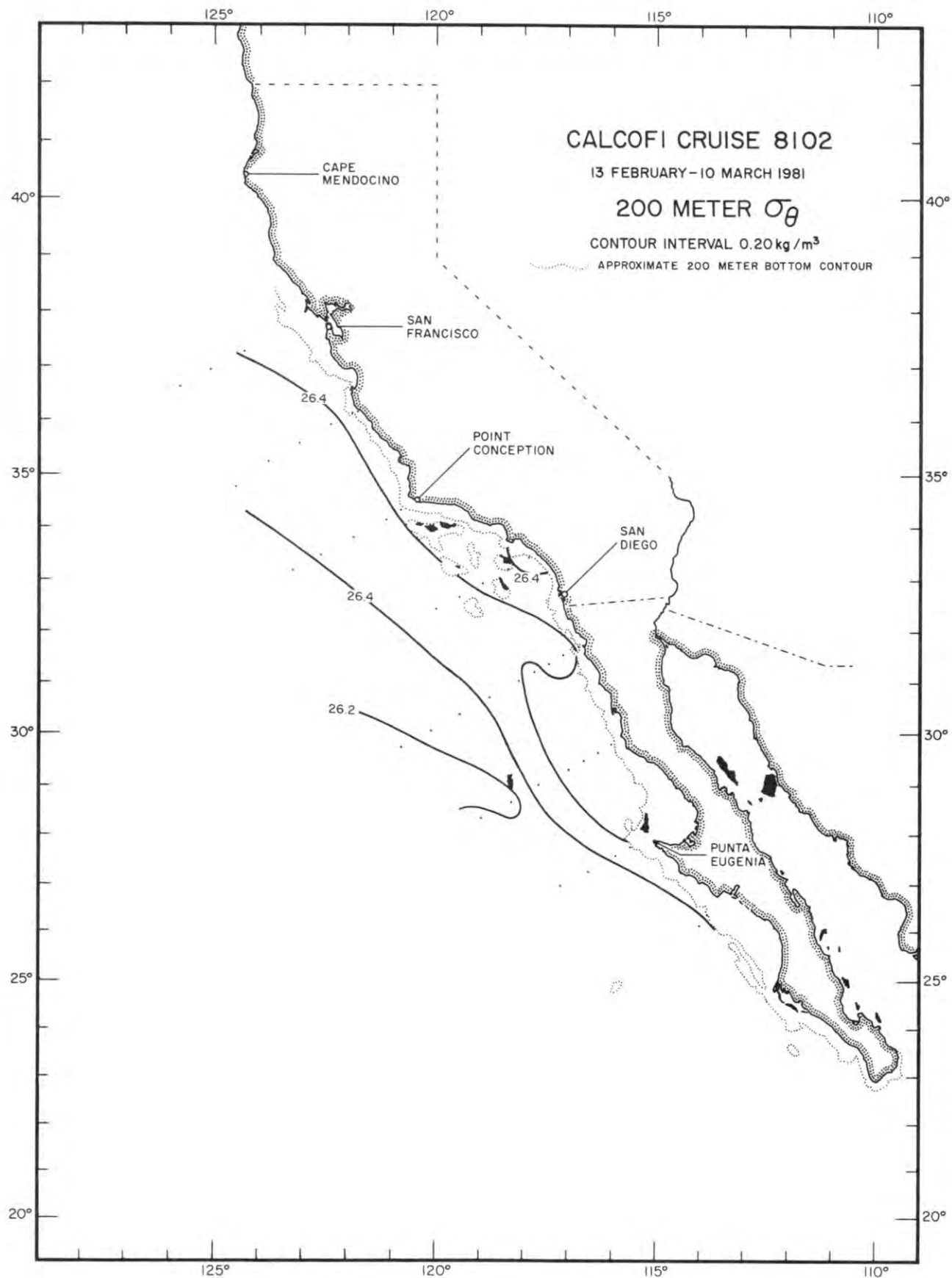


FIGURE 9



## PERSONNEL

Cruise 8102

### SHIPS' CAPTAINS

Ferreira, Manuel, *RV David Starr Jordan*  
Phinney, Alan W., *RV New Horizon*

### PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

#### *RV David Starr Jordan*

Flerx, William C. (in charge)	Fishery Biologist, NMFS
Abramenkoff, Dimitry N.	Biological Technician, NMFS
Butler, John L.	Fishery Biologist, NMFS
Costello, James P.	Staff Research Associate, SIO
Graham, Jerry B.	Electronics Technician, NMFS
Granados G., Maria	Investigador Titular, INP
Kimbrell, Carol A.	Fishery Biologist, NMFS
MacCall, Barbara S.	Fishery Biologist, NMFS
Sandknop, Elaine M.	Biological Technician, NMFS

#### *RV New Horizon*

Schmitt, James A. (in charge)	Electronics Technician, SIO
Metoyer, Jack A.	Biological Technician, NMFS
Stevens, Elizabeth	Biological Technician, NMFS
Wells, James A.	Marine Technician, SIO

STATION 60 50 RV DAVID STARR JORDAN CALCOFI CRUISE 8102 STATION 60 52.5

RV DAVID STARR JORDAN									CALCOFI CRUISE 8102																	
LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM					
37 56.8 N				122 52.9 W				10/03/81	1900 GMT	47 M	37 51.8 N				123 03.8 W				10/03/81	2130 GMT	90 M					
WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS		WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS				
330		25 KT	310 08 06		1	1024.0 MB		13.1 C	12.0 C	7/8 CS		320		28 KT	320 08 07		1	1022.0 MB		13.8 C	11.8 C	5/8 CC				
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	12.31	12.31	32.942	24.955	308.5	-.000	0						0	11.96	11.96	32.797	24.887	305.6	-.000	0						
10	12.31	12.31	32.843	24.857	308.7	-.031	10						10	11.97	11.97	32.822	24.904	304.1	-.030	10						
20	12.16	12.16	32.966	24.981	297.1	-.089	20						20	11.94	11.94	32.834	24.919	302.9	-.061	20						
30	11.68	11.68	33.251	25.292	267.8	-.089	30						30	11.92	11.92	32.857	24.941	301.1	-.091	30						
40	11.11	11.11	33.522	25.606	238.0	-.114	40						40	11.75	11.75	32.890	24.999	295.9	-.120	40						
50	10.93	10.92	33.605	25.703	229.1	-.137	50						50	10.90	10.89	33.305	25.475	250.7	-.147	50						
													75	10.27	10.26	33.691	25.886	212.2	-.205	75						
													78	10.25	10.24	33.707	25.902	210.8	-.211	78						

STATION 60 55 RV DAVID STARR JORDAN CALCOFI CRUISE 8102 RV NEW HORIZON STATION 60 70

RV DAVID STARR JORDAN									RV NEW HORIZON																	
LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM					
37 46.8 N				123 14.7 W				10/03/81	2330 GMT	115 M	37 16.9 N				124 19.5 W				15/02/81	1853 GMT	4050 M					
WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS		WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS				
320		25 KT	320 08 05		1	1020.0 MB		12.3 C	11.0 C	3/8 CC		320		15 KT	320 06 05		1	1028.4 MB		13.7 C	12.2 C	5/8 CS				
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	11.89	11.89	32.909	24.987	296.1	-.000	0						0	13.50	13.50	33.084	24.810	312.9	-.000	0						
10	11.89	11.89	32.920	24.995	295.5	-.029	10						10	13.50	13.50	33.087	24.812	312.9	-.031	10						
20	11.88	11.88	32.935	25.009	294.4	-.059	20						20	13.57	13.57	33.131	24.832	311.3	-.062	20						
30	11.88	11.88	32.985	25.048	290.9	-.088	30						30	13.38	13.38	33.171	24.902	304.9	-.093	30						
40	11.79	11.78	33.166	25.206	276.2	-.116	40						40	12.96	12.95	33.269	25.062	290.0	-.122	40						
50	11.36	11.35	33.328	25.410	256.9	-.143	50						50	13.09	13.08	33.371	25.115	285.1	-.151	50						
75	10.47	10.46	33.636	25.809	219.6	-.202	75						75	12.97	12.96	33.422	25.179	279.7	-.221	75						
100	9.78	9.77	33.764	26.026	199.4	-.256	101						100	10.65	10.64	33.436	25.622	237.9	-.288	101						
108	9.73	9.72	33.776	26.044	197.8	-.272	109						125	9.95	9.94	33.581	25.855	216.1	-.345	126						
													150	9.29	9.27	33.768	26.110	192.3	-.395	151						
													175	8.93	8.91	33.935	26.297	175.0	-.441	176						
													200	8.53	8.51	33.982	26.398	165.7	-.483	201						
													250	8.10	8.07	34.069	26.532	155.8	-.564	252						
													300	6.95	6.92	33.996	26.639	143.8	-.638	302						
													350	6.36	6.33	33.992	26.715	137.0	-.708	352						
													400	5.96	5.95	34.029	26.795	129.7	-.775	403						
													450	5.64	5.60	34.067	26.865	123.5	-.838	453						
													500	5.46	5.42	34.122	26.930	117.7	-.899	504						
													532	5.27	5.23	34.152	26.977	113.5	-.936	536						

STATION 60 80 RV NEW HORIZON CALCOFI CRUISE 8102 STATION 60 90

RV NEW HORIZON									CALCOFI CRUISE 8102																	
LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE				LONGITUDE				DAY/MO/YR	MESSENGER	BOTTOM					
36 56.5 N				125 05.0 W				15/02/81	0805 GMT	3750 M	36 36.5 N				125 48.1 W				15/02/81	0320 GMT	4529 M					
WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS		WIND		SPEED	WAVES		WEA	BAROMETER		DRY	WET	CLOUDS				
330		12 KT				1028.1 MB		13.1 C	12.0 C			340		05 KT	290 08 06		1	1028.8 MB		10.3 C	10.2 C	5/8 CS				
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	13.71	13.71	33.168	24.832	310.8	-.000	0						0	13.45	13.45	33.047	24.791	314.7	-.000	0						
10	13.70	13.70	33.169	24.835	310.8	-.031	10						10	13.29	13.29	33.044	24.821	312.1	-.031	10						
20	13.63	13.63	33.170	24.850	309.6	-.062	20						20	13.27	13.27	33.046	24.827	311.8	-.062	20						
30	13.46	13.46	33.176	24.890	306.1	-.092	30						30	13.22	13.22	33.062	24.850	309.9	-.093	30						
40	12.72	12.71	33.232	25.080	288.2	-.122	40						40	12.85	12.84	33.237	25.059	290.3	-.123	40						
50	12.28	12.27	33.384	25.283	269.1	-.150	50						50	12.86	12.85	33.356	25.149	281.9	-.152	50						
75	10.62	10.61	33.502	25.678	232.0	-.212	75						75	11.43	11.42	33.342	25.409	257.6	-.219	75						
100	9.67	9.66	33.643	25.950	206.6	-.269	101						100	10.36	10.35	33.447	25.681	232.3	-.282	101						
125	9.20	9.19	33.825	26.169	186.2	-.318	126						125	9.48	9.47	33.632	25.973	204.9	-.336	126						
150	8.94	8.92	33.919	26.284	175.7	-.362	151						150	9.00	8.98	33.746	26.139	189.4	-.385	151						
175	8.31	8.29	33.947	26.404	164.6	-.405	176						175	8.60	8.58	33.864	26.294	175.1	-.431	176						
200	7.76	7.74	33.993	26.521	153.7	-.444	201						200	8.32	8.30	33.952	26.406	164.8	-.473	201						
250	7.14	7.12	34.028	26.637	143.3	-.519	252						250	7.87	7.85	34.048	26.550	152.0	-.533	252						
300	7.19	7.16	34.156	26.732	135.2	-.589	302						300	7.23	7.20	34.078	26.665	141.6	-.626	302						
350	6.73	6.70	34.180	26.814	127.9	-.654	352						350	6.70	6.67	34.122	26.772	131.8	-.694	352						
400	6.38	6.34	34.207	26.882	121.9	-.717	403						400	6.28	6.24	34.151	26.851	124.8	-.759	403						
450	5.95	5.91	34.240	26.964	114.5	-.776	453						450	5.87	5.83	34.181	26.927	117.9	-.819	453						
500	5.69	5.65	34.254	27.007	110.8	-.833	504						500	5.43	5.39	34.194	26.991	112.0	-.877	504						

STATION 70 51		RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		STATION 70 53									
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	MESSENGER	BOTTOM							
36 10.9 N	121 43.6 W	09/03/81	0445 GMT	279 M	36 06.8 N	121 52.2 W	09/03/81	270 M							
WIND 320 SPEED 06 KT	WAVES	WEA	BAROMETER 1022.0 MB	DRY 14.2 C	WET 13.2 C	CLOUDS	WIND 310 SPEED 11 FT	WAVES 50 FT	WEA D	BAROMETER 1022.0 MB	DRY 14.7 C	WET 13.7 C	CLOUDS 1/-		
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	13.76	13.76	33.568	25.131	282.8	-.000	0	0	13.57	13.57	33.270	24.946	299.9	-.000	0
10	13.76	13.76	33.569	25.132	282.5	-.028	10	13.43	13.43	33.244	24.970	249.2	-.030	10	
20	13.14	13.14	33.597	25.280	268.7	-.056	20	13.23	13.23	33.312	25.041	291.4	-.059	20	
30	12.94	12.94	33.596	25.319	265.5	-.082	30	13.16	13.16	33.310	25.061	289.8	-.086	30	
40	12.91	12.90	33.594	25.323	265.1	-.106	40	13.14	13.13	33.326	25.070	299.2	-.117	40	
50	12.87	12.86	33.595	25.332	264.6	-.135	50	13.15	13.14	33.319	25.063	290.1	-.146	50	
75	11.66	11.45	33.744	25.716	228.5	-.196	75	10.77	10.76	33.309	25.572	242.1	-.212	75	
100	10.52	10.51	33.811	25.937	208.0	-.253	100	10.44	10.43	33.508	25.715	229.1	-.273	100	
125	10.16	10.15	33.851	26.031	199.6	-.303	125	9.87	9.86	33.610	25.898	212.0	-.328	125	
150	9.40	9.76	33.884	26.117	191.8	-.352	150	9.59	9.57	33.675	25.999	203.0	-.379	150	
175	9.37	9.35	33.942	26.234	181.1	-.398	175	9.27	9.25	33.802	26.140	189.9	-.425	175	
200	9.11	9.09	34.000	26.322	173.2	-.442	200	8.74	8.72	33.875	26.271	176.6	-.474	200	
250	8.68	8.65	34.058	26.435	163.5	-.527	250	8.26	8.23	34.040	26.485	158.3	-.557	250	
							300	7.81	7.78	34.093	26.594	146.7	-.635	300	
							350	7.48	7.45	34.145	26.715	137.9	-.706	350	
							400	7.03	6.99	34.224	26.800	129.5	-.773	400	
							450	6.48	6.44	34.236	26.893	121.8	-.836	450	
							500	6.20	6.16	34.267	26.954	116.5	-.896	500	
							522	5.91	5.86	34.303	27.019	110.2	-.920	522	

STATION 70 60		RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		RV NEW HORIZON		STATION 70 70							
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
35 52.9 N	122 21.9 W	08/03/81	2040 GMT	3164 M	35 33.1 N	123 04.4 W	17/02/81	1107 GMT	3680 M						
WIND 250 SPEED 09 KT	WAVES 08 08	WEA 1	BAROMETER 1024.0 MB	DRY 14.7 C	WET 13.1 C	CLOUDS 2/8 CI	WIND 130 SPEED 23 KT	WAVES	WEA	BAROMETER 1022.4 MB	DRY 13.7 C	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	13.41	13.41	33.598	25.225	273.3	-.000	0	0	14.02	14.02	33.189	24.784	315.3	-.000	0
10	13.41	13.41	33.595	25.223	273.8	-.027	10	14.02	14.02	33.189	24.785	315.6	-.031	10	
20	13.35	13.35	33.639	25.270	269.7	-.054	20	14.03	14.03	33.190	24.784	315.9	-.063	20	
30	13.11	13.11	33.668	25.341	263.2	-.081	30	14.02	14.02	33.188	24.785	316.1	-.094	30	
40	13.05	13.04	33.675	25.357	261.9	-.107	40	14.01	14.00	33.194	24.791	315.8	-.126	40	
50	13.03	13.02	33.671	25.360	261.9	-.133	50	13.90	13.89	33.315	24.908	305.0	-.157	50	
75	12.96	12.95	33.680	25.381	260.6	-.198	75	11.27	11.26	33.430	25.507	248.3	-.225	75	
100	10.12	10.11	33.920	26.091	193.3	-.257	100	9.75	9.74	33.634	25.930	208.5	-.282	100	
125	9.67	9.66	34.102	26.309	173.1	-.302	125	9.20	9.19	33.804	26.152	187.8	-.333	125	
150	9.33	9.31	34.137	26.392	165.6	-.344	150	8.81	8.79	33.910	26.298	174.4	-.378	150	
175	9.23	9.21	34.176	26.439	161.6	-.385	175	8.54	8.52	33.996	26.407	164.4	-.420	175	
200	8.94	8.92	34.250	26.544	152.1	-.424	200	8.28	8.26	34.035	26.477	158.1	-.461	200	
250	8.20	8.17	34.302	26.700	138.0	-.497	250	7.80	7.78	34.100	26.600	147.1	-.538	250	
300	7.26	7.23	34.234	26.783	130.4	-.564	300	7.30	7.27	34.128	26.695	138.8	-.609	300	
350	6.96	6.93	34.263	26.848	124.9	-.627	350	6.80	6.77	34.157	26.787	130.6	-.676	350	
400	6.49	6.45	34.259	26.909	119.5	-.689	400	6.25	6.21	34.178	26.876	122.4	-.740	400	
450	6.31	6.27	34.317	26.979	113.5	-.747	450	5.97	5.93	34.222	26.947	116.1	-.799	450	
500	5.97	5.93	34.312	27.019	110.1	-.803	500	5.55	5.51	34.225	27.001	111.2	-.856	500	
518	5.82	5.78	34.323	27.046	107.6	-.823	522								

STATION 70 80		RV NEW HORIZON		CALCOFI CRUISE 8102		STATION 70 91									
LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM						
35 13.0 N	123 46.6 W	17/02/81	1548 GMT	4149 M	34 46.0 N	124 30.0 W	18/02/81	0102 GMT	4205 M						
WIND 330 SPEED 22 KT	WAVES 05 04	WEA 2	BAROMETER 1024.4 MB	DRY 12.6 C	WET 12.1 C	CLOUDS 5/8 ST	WIND 330 SPEED 28 KT	WAVES 05 04	WEA 2	BAROMETER 1023.4 MB	DRY 14.3 C	WET 13.1 C	CLOUDS 8/8 AS		
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	13.68	13.68	33.180	24.847	309.3	-.000	0	0	14.10	14.10	33.004	24.625	330.5	-.000	0
10	13.59	13.59	33.197	24.879	306.6	-.031	10	14.10	14.10	33.005	24.626	330.7	-.033	10	
20	13.04	13.04	33.278	25.052	290.3	-.060	20	14.04	14.04	33.023	24.653	328.4	-.066	20	
30	12.93	12.93	33.306	25.096	286.5	-.089	30	13.74	13.74	32.981	24.682	325.8	-.098	30	
40	12.87	12.86	33.330	25.126	283.8	-.117	40	13.61	13.60	33.105	24.805	314.4	-.130	40	
50	12.38	12.37	33.385	25.265	270.9	-.145	50	13.23	13.22	33.099	24.877	307.8	-.161	50	
75	10.44	10.43	33.546	25.744	225.7	-.207	75	11.63	11.62	33.297	25.338	264.5	-.232	75	
100	9.41	9.40	33.714	26.048	197.3	-.261	100	10.28	10.27	33.559	25.782	222.6	-.293	100	
125	9.01	9.00	33.839	26.210	182.3	-.309	125	9.36	9.35	33.736	26.073	195.3	-.347	125	
150	8.54	8.52	33.925	26.351	169.2	-.352	150	8.93	8.91	33.834	26.222	181.6	-.394	150	
175	8.41	8.39	34.006	26.435	161.7	-.393	175	8.73	8.71	33.940	26.334	171.4	-.438	175	
200	8.01	7.99	34.033	26.516	154.3	-.433	200	8.26	8.26	33.995	26.438	161.2	-.479	200	
250	7.36	7.34	34.058	26.630	144.1	-.502	250	7.36	7.34	34.000	26.585	148.3	-.556	250	
300	6.73	6.70	34.095	26.746	133.5	-.577	300	6.70	6.67	34.007	26.681	139.6	-.629	300	
350	6.31	6.28	34.122	26.823	126.7	-.642	350	6.74	6.71	34.051	26.777	131.0	-.696	350	
400	5.90	5.87	34.145	26.894	120.3	-.704	400	5.92	5.89	34.095	26.852	124.3	-.761	400	
450	5.48	5.44	34.156	26.955	114.9	-.762	450	5.54	5.50	34.118	26.917	118.4	-.821	450	
500	5.14	5.10	34.187	27.020	109.0	-.819	500	5.57	5.53	34.222	26.997	111.7	-.878	500	
523	5.04	5.00	34.207	27.047	106.5	-.844	527								

STATION 80 57		RV DAVID STARR JORDAN					CALCOFI CRUISE 8102					STATION 80 55			
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
34 27.0 N	120 31.0 W	06/03/81		2342 GMT	85 M	34 19.0 N	120 47.4 W	07/03/81		0250 GMT	768 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	15 KT	310 03 04	1	1015.0 MB	13.9 C	11.4 C	2/8 CU	310	14 KT			1017.0 MB	13.2 C	10.9 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	13.97	13.97	33.321	24.897	304.6	.000	0	0	13.58	13.54	33.510	25.145	281.0	.000	0
10	13.96	13.96	33.322	24.900	304.6	.030	10	10	13.58	13.58	33.551	25.155	280.4	.030	10
20	13.86	13.86	33.326	24.924	302.6	.061	20	20	13.54	13.54	33.575	25.162	279.0	.056	20
30	13.75	13.75	33.332	24.951	300.2	.091	30	30	13.53	13.53	33.576	25.185	278.0	.083	30
40	13.68	13.67	33.337	24.970	298.8	.120	40	40	12.97	12.96	33.549	25.226	269.5	.111	40
50	13.49	13.48	33.356	25.024	293.9	.150	50	50	11.79	11.74	33.644	25.577	241.1	.176	50
68	12.85	12.84	33.501	25.264	271.5	.200	68	75	10.78	10.77	33.772	25.865	214.2	.193	75
								100	10.32	10.31	33.905	26.045	197.7	.246	100
								125	10.08	10.07	33.952	26.123	190.8	.294	126
								150	9.94	9.92	33.945	26.142	189.6	.341	151
								175	9.66	9.64	34.014	26.243	180.4	.367	176
								200	9.46	9.44	34.046	26.301	175.5	.432	201
								250	8.90	8.87	34.165	26.485	155.7	.514	251
								300	8.40	8.37	34.226	26.611	147.5	.592	302
								350	7.88	7.84	34.259	26.715	138.2	.663	352
								400	7.20	7.16	34.224	26.785	131.8	.731	403
								450	6.88	6.84	34.244	26.846	126.6	.795	453
								500	6.60	6.55	34.252	26.890	122.9	.857	503
								505	6.57	6.52	34.247	26.890	122.9	.864	509

STATION 80 60		RV DAVID STARR JORDAN					CALCOFI CRUISE 8102					RV NEW HORIZON		STATION 80 70	
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
34 09.1 N	121 08.9 W	07/03/81		0700 GMT	2316 M	33 49.2 N	121 50.4 W	20/02/81		0428 GMT	3730 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
320	13 KT			1018.0 MB	13.8 C	10.1 C		340	40 KT			1023.7 MB	14.2 C	13.0 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	13.40	13.40	33.555	25.194	276.3	.000	0	0	14.48	14.48	33.395	24.847	309.4	.000	0
10	13.41	13.41	33.578	25.210	275.1	.027	10	10	14.48	14.48	33.395	24.847	309.6	.031	10
20	13.41	13.41	33.581	25.213	275.1	.055	20	20	14.48	14.48	33.395	24.848	309.9	.062	20
30	13.32	13.32	33.583	25.233	273.4	.082	30	30	14.48	14.48	33.395	24.848	310.1	.093	30
40	13.28	13.27	33.608	25.260	271.1	.109	40	40	14.48	14.47	33.394	24.848	310.5	.123	40
50	13.26	13.25	33.615	25.270	270.5	.136	50	50	14.47	14.46	33.394	24.850	310.5	.154	50
75	10.67	10.68	33.625	25.276	224.1	.198	75	75	12.24	12.23	33.401	25.304	267.7	.226	75
100	9.65	9.64	33.771	26.053	196.8	.252	101	100	9.93	9.92	33.599	25.872	214.0	.286	100
125	8.95	8.94	33.905	26.271	176.4	.298	126	125	9.26	9.25	33.769	26.115	191.3	.339	126
150	8.55	8.53	33.987	26.398	164.8	.341	151	150	9.01	8.99	33.899	26.257	178.3	.384	151
175	8.14	8.12	34.085	26.537	151.9	.380	176	175	8.38	8.36	33.975	26.415	163.6	.427	176
200	7.84	7.82	34.100	26.594	146.9	.417	201	200	8.00	7.98	34.028	26.513	154.6	.466	201
250	7.26	7.24	34.163	26.727	134.9	.489	252	250	7.46	7.44	34.068	26.624	144.7	.541	251
300	6.84	6.81	34.173	26.793	129.2	.554	302	300	6.89	6.86	34.092	26.722	135.9	.612	302
350	6.72	6.69	34.233	26.857	123.8	.617	352	350	6.25	6.22	34.087	26.803	128.5	.677	352
400	6.56	6.52	34.276	26.913	119.2	.678	403	400	5.76	5.73	34.132	26.901	119.5	.740	403
450	6.21	6.17	34.268	26.953	115.8	.737	453	450	5.52	5.48	34.169	26.960	114.4	.798	453
500	5.90	5.86	34.298	27.016	110.2	.794	504	500	5.34	5.30	34.221	27.023	108.9	.853	503
518	5.86	5.82	34.305	27.027	109.4	.813	522	515	5.30	5.26	34.234	27.038	107.6	.871	519

STATION 80 80		RV NEW HORIZON					CALCOFI CRUISE 8102					STATION 80 90			
LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM	LATITUDE	LONGITUDE	DAY/MO/YR		MESSENGER	BOTTOM				
33 29.0 N	122 32.1 W	19/02/81		2134 GMT	4110 M	33 09.3 N	123 13.7 W	19/02/81		1540 GMT	4302 M				
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
340	25 KT	330 04 08	2	1024.0 MB	15.0 C	14.3 C	9/8 NS	350	02 KT	330 08 05	4	1024.7 MB	14.2 C	14.2 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	14.53	14.53	33.151	24.648	328.3	.000	0	0	15.25	15.25	33.158	24.499	342.5	.000	0
10	14.53	14.53	33.152	24.649	328.5	.033	10	10	15.25	15.25	33.158	24.499	342.8	.034	10
20	14.50	14.50	33.151	24.655	328.2	.065	20	20	15.25	15.25	33.156	24.498	343.2	.068	20
30	14.49	14.49	33.238	24.725	321.9	.098	30	30	15.25	15.25	33.157	24.499	343.4	.102	30
40	14.51	14.50	33.256	24.735	321.2	.130	40	40	15.20	15.19	33.151	24.505	343.1	.137	40
50	14.09	14.08	33.296	24.854	310.1	.161	50	50	14.83	14.82	33.141	24.578	336.4	.171	50
75	12.37	12.36	33.367	25.253	272.6	.234	75	75	13.62	13.61	33.230	24.900	306.3	.250	75
100	10.68	10.67	33.463	25.638	236.4	.297	100	100	13.20	13.19	33.674	25.329	266.2	.322	100
125	9.78	9.77	33.650	25.938	208.3	.354	126	125	11.11	11.09	33.553	25.633	237.6	.387	126
150	9.09	9.07	33.793	26.162	187.4	.404	151	150	9.75	9.71	33.577	25.889	213.4	.443	151
175	8.65	8.63	33.881	26.300	174.6	.449	176	175	9.02	9.00	33.727	26.121	191.6	.493	176
200	8.19	8.17	33.955	26.428	162.7	.490	201	200	8.52	8.50	33.908	26.342	171.1	.538	201
250	7.89	7.87	34.072	26.565	150.5	.568	251	250	7.70	7.68	34.002	26.538	153.0	.619	251
300	6.66	6.63	34.012	26.690	138.7	.642	302	300	7.02	6.99	34.013	26.643	143.5	.694	302
350	6.28	6.25	34.061	26.779	130.8	.708	352	350	6.45	6.42	34.032	26.734	135.2	.763	352
400	5.88	5.85	34.105	26.865	123.0	.773	403	400	6.11	6.08	34.071	26.809	128.6	.830	403
450	5.42	5.38	34.139	26.948	115.4	.832	453	450	5.65	5.61	34.107	26.895	120.6	.891	453
500	5.20	5.16	34.194	27.018	109.2	.887	503	500	5.38	5.34	34.170	26.978	113.2	.949	503
517	5.24	5.20	34.227	27.040	107.4	.907	521	518	5.28	5.24	34.184	27.001	111.1	.969	521

STATION 90 28 RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 90 73

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
33 29.1 N		117 46.1 W		15/02/81		1505 GMT		65 M	
33 25.1 N		117 54.3 W		15/02/81		1705 GMT		602 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
340	05 KT	300 01 05	1	1017.0 MB	16.0 C	13.4 C	5/8 CS		
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
410	05 KT	300 02 04	4	1019.0 MB	14.3 C	14.0 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	14.96	14.96	33.370	24.725	321.0	.000	0		
10	14.92	14.92	33.451	24.796	314.5	.037	10		
20	14.69	14.69	33.522	24.901	304.8	.062	20		
30	14.34	14.34	33.524	24.977	297.8	.092	30		
40	13.80	13.79	33.511	25.080	288.3	.122	40		
50	13.18	13.17	33.542	25.229	274.3	.150	50		
66	12.04	12.03	33.641	25.529	246.2	.191	66		

STATION 90 37 RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 90 45

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
33 11.1 N		118 23.2 W		15/02/81		2300 GMT		1193 M	
32 55.1 N		118 56.0 W		16/02/81		0410 GMT		1849 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
270	13 KT	270 03 04	1	1016.0 MB	16.9 C	15.9 C	6/8 CS		
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
330	11 KT			1015.0 MB	16.9 C	15.9 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	15.43	15.43	33.361	24.615	331.4	.000	0		
10	15.43	15.43	33.361	24.615	331.7	.033	10		
20	15.19	15.19	33.325	24.641	329.6	.066	20		
30	14.90	14.90	33.402	24.764	318.2	.098	30		
40	14.27	14.26	33.371	24.874	307.9	.129	40		
50	12.84	12.83	33.407	25.193	277.8	.159	50		
75	11.58	11.57	33.605	25.586	240.8	.223	75		
100	11.06	11.05	33.710	25.763	224.6	.281	100		
125	10.62	10.61	33.820	25.927	209.5	.337	126		
150	10.07	10.05	33.960	26.131	190.6	.387	151		
175	9.50	9.48	34.041	26.290	175.8	.432	176		
200	9.10	9.08	34.095	26.397	166.1	.475	201		
250	8.62	8.59	34.195	26.552	152.2	.554	251		
300	7.94	7.91	34.211	26.668	141.8	.628	302		
350	7.52	7.49	34.267	26.773	132.4	.696	352		
400	7.17	7.13	34.261	26.819	128.7	.762	403		
450	6.76	6.72	34.293	26.900	121.3	.824	453		
500	6.48	6.41	34.304	26.950	117.1	.883	503		
516	6.38	6.33	34.311	26.966	115.8	.903	520		

STATION 90 53 RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 90 60

LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM	
32 39.1 N		119 28.9 W		16/02/81		1000 GMT		1373 M	
32 25.4 N		119 57.6 W		16/02/81		1540 GMT		1605 M	
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
330	17 KT	300 08 03	1	1016.0 MB	16.4 C	15.3 C			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS		
330	17 KT			1016.0 MB	16.2 C	15.2 C			
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS		
M	DEG C	DEG C		THETA			D.BAR		
0	15.56	15.56	33.655	24.813	312.6	.000	0		
10	15.57	15.57	33.657	24.813	312.9	.031	10		
20	15.57	15.57	33.658	24.814	313.1	.062	20		
30	15.50	15.50	33.662	24.833	311.7	.093	30		
40	15.28	15.27	33.671	24.889	306.6	.124	40		
50	15.00	14.99	33.641	24.927	303.3	.155	50		
75	12.01	12.00	33.539	25.455	253.4	.224	75		
100	10.56	10.55	33.614	25.776	223.2	.283	100		
125	9.62	9.61	33.754	26.045	198.1	.336	126		
150	9.34	9.32	33.975	26.264	177.7	.384	151		
175	8.82	8.80	34.104	26.448	160.6	.426	176		
200	8.33	8.31	34.113	26.531	153.1	.465	201		
250	8.04	8.01	34.234	26.670	140.7	.538	251		
300	7.59	7.56	34.226	26.730	135.6	.608	302		
350	7.21	7.18	34.256	26.808	128.8	.674	352		
400	6.78	6.74	34.247	26.861	124.3	.736	403		
450	6.48	6.44	34.284	26.930	118.2	.798	453		
500	6.18	6.14	34.303	26.985	113.5	.855	503		

STATION 95 29

RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 100 29.3

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
32 35.1 N 117 16.3 W 24/02/81 0330 GMT 56 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
300 10 KT 1012.0 MB 16.9 C 15.0 C

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.58	16.58	33.526	24.482	344.1	.000	0
10	16.52	16.52	33.520	24.492	343.5	.034	10
20	15.32	15.32	33.441	24.702	323.8	.067	20
30	14.85	14.85	33.470	24.827	312.1	.099	30
40	14.60	14.59	33.444	24.861	309.3	.130	40
50	13.84	13.83	33.466	25.037	292.7	.160	50
58	13.32	13.31	33.534	25.196	277.7	.183	58

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 42.7 N 116 43.3 W 03/03/81 0210 GMT F4 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
150 15 KT 1008.0 MB 14.2 C 12.4 C

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.08	15.08	33.488	24.790	314.8	.000	0
10	15.04	15.04	33.490	24.801	314.1	.031	10
20	14.98	14.98	33.496	24.818	312.7	.063	20
30	14.96	14.96	33.488	24.817	313.1	.094	30
40	14.90	14.89	33.488	24.830	312.1	.125	40
50	14.68	14.67	33.470	24.864	309.2	.156	50
68	12.17	12.16	33.628	25.494	249.6	.206	68

STATION 100 30

RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 100 35

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 41.2 N 116 46.6 W 03/03/81 0040 GMT 325 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
190 13 KT 200 04 03 1 1006.0 MB 15.4 C 13.8 C 7/8 SC

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.05	15.05	33.475	24.786	315.1	.000	0
10	15.05	15.05	33.489	24.797	314.4	.031	10
20	14.86	14.86	33.526	24.867	308.0	.062	20
30	14.71	14.71	33.536	24.908	304.4	.093	30
40	14.58	14.57	33.550	24.947	301.0	.123	40
50	14.26	14.25	33.528	24.998	296.4	.153	50
75	12.49	12.48	33.623	25.429	256.0	.221	75
100	11.43	11.42	33.783	25.753	225.6	.281	100
125	10.72	10.70	33.823	25.912	211.0	.338	126
150	10.15	10.13	34.133	26.253	179.1	.386	151
175	9.94	9.92	34.198	26.340	171.3	.430	176
200	9.73	9.71	34.227	26.398	166.3	.472	201
250	9.42	9.39	34.308	26.513	156.3	.552	251
298	8.87	8.84	34.299	26.595	149.2	.626	300

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 31.2 N 117 06.9 W 02/03/81 1945 GMT 1295 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
180 23 KT 200 05 03 5 1010.0 MB 13.4 C 13.2 C 8/8 SC

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.63	15.63	33.469	24.654	327.7	.000	0
10	15.61	15.61	33.486	24.672	326.3	.033	10
20	15.60	15.60	33.482	24.671	326.7	.065	20
30	14.13	14.13	33.473	24.982	297.4	.096	30
40	12.80	12.79	33.531	25.296	267.7	.124	40
50	12.09	12.08	33.622	25.504	248.2	.150	50
75	11.46	11.45	33.704	25.685	231.4	.210	75
100	9.91	9.90	33.744	25.989	202.9	.264	100
125	9.81	9.80	33.963	26.177	185.6	.314	126
150	9.02	9.00	34.034	26.361	168.4	.358	151
175	9.01	8.99	34.085	26.403	164.9	.399	176
200	8.92	8.90	34.160	26.477	158.5	.439	201
250	8.37	8.34	34.220	26.610	146.6	.515	251
300	7.68	7.65	34.199	26.696	138.9	.587	302
350	7.27	7.26	34.248	26.791	130.6	.654	352
400	6.95	6.91	34.302	26.881	122.6	.718	403
450	6.53	6.49	34.321	26.953	116.1	.778	453
500	6.27	6.23	34.351	27.011	111.1	.834	503
516	6.22	6.17	34.355	27.021	110.4	.851	519

STATION 100 40

RV DAVID STARR JORDAN

CALCOFI CRUISE 8102

STATION 100 45

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 21.0 N 117 27.2 W 02/03/81 1415 GMT 1943 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
220 10 KT 200 04 05 1 1010.0 MB 15.4 C 13.0 C 3/8 SC

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	15.53	15.53	33.477	24.683	325.0	.000	0
10	15.54	15.54	33.478	24.681	325.4	.032	10
20	15.49	15.49	33.472	24.688	325.1	.065	20
30	15.01	15.01	33.492	24.809	313.8	.097	30
40	13.82	13.81	33.510	25.075	288.8	.127	40
50	12.94	12.93	33.524	25.263	271.1	.154	50
75	11.88	11.87	33.632	25.552	244.2	.219	75
100	10.32	10.31	33.700	25.885	212.9	.275	100
125	10.09	10.08	33.854	26.045	198.2	.329	126
150	9.43	9.41	33.920	26.206	183.2	.376	151
175	9.11	9.09	34.033	26.347	170.3	.420	176
200	8.74	8.72	34.068	26.433	162.5	.461	201
250	8.25	8.22	34.134	26.561	151.2	.539	251
300	7.81	7.78	34.188	26.669	141.6	.613	302
350	7.01	6.98	34.216	26.805	129.0	.680	352
400	6.92	6.88	34.241	26.837	126.7	.745	403
450	6.68	6.64	34.289	26.908	120.5	.806	453
500	6.24	6.20	34.297	26.972	114.7	.865	503

LATITUDE LONGITUDE DAY/MO/YR MESSENGER BOTTOM  
31 11.2 N 117 47.2 W 02/03/81 0935 GMT 1763 M

WIND SPEED WAVES WEA BAROMETER DRY WET CLOUDS  
200 10 KT 1011.0 MB 15.4 C 12.9 C

DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.25	16.25	33.522	24.555	337.1	.000	0
10	16.25	16.25	33.521	24.555	337.5	.034	10
20	16.25	16.25	33.521	24.555	337.8	.067	20
30	16.25	16.25	33.522	24.556	338.0	.101	30
40	16.23	16.22	33.509	24.551	338.8	.135	40
50	15.15	15.14	33.341	24.663	328.4	.168	50
75	12.92	12.91	33.459	25.218	276.1	.243	75
100	11.39	11.38	33.548	25.577	242.3	.308	100
125	10.34	10.33	33.766	25.933	208.8	.366	126
150	10.41	10.39	33.952	26.067	196.8	.416	151
175	10.09	10.07	34.099	26.237	181.1	.463	176
200	9.74	9.72	34.199	26.375	168.5	.507	201
250	8.77	8.74	34.196	26.530	154.4	.587	251
300	8.03	8.00	34.201	26.647	143.8	.662	302
350	7.64	7.61	34.278	26.765	133.3	.731	352
400	7.16	7.12	34.263	26.822	128.4	.796	402
450	6.62	6.58	34.285	26.913	120.0	.859	453
500	6.40	6.35	34.339	26.985	113.8	.917	503
514	6.37	6.32	34.355	27.002	112.4	.933	517

STATION 100 50					RV DAVID STARR JORDAN					CALCOFI CRUISE 8102					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		02/03/81	0455 GMT		1856 M		30 41.2 N		118 47.5 W		02/03/81	2210 GMT		2962 M			
WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS	WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS
250 12 KT					1011.0 MB		16.3 C	13.6 C		240 15 KT		260 05 03 1			1011.0 MB		16.8 C	15.0 C	4/8 CU
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS												
M	DEG C	DEG C		THETA			D.BAR												
0	16.27	16.27	33.523	24.551	337.5	.000	0												
10	16.25	16.25	33.518	24.552	337.7	.034	10												
20	16.25	16.25	33.516	24.551	338.1	.067	20												
30	16.26	16.26	33.530	24.560	337.6	.101	30												
40	16.19	16.18	33.529	24.576	336.5	.135	40												
50	15.33	15.32	33.536	24.774	317.9	.167	50												
75	12.72	12.71	33.433	25.237	274.2	.241	75												
100	11.31	11.30	33.561	25.602	239.9	.305	100												
125	10.25	10.24	33.733	25.923	209.8	.363	126												
150	9.56	9.54	33.813	26.102	193.2	.413	151												
175	9.22	9.20	33.948	26.263	178.3	.459	176												
200	8.84	8.82	34.053	26.406	165.1	.502	201												
250	8.21	8.18	34.126	26.560	151.2	.580	251												
300	8.25	8.22	34.303	26.694	139.5	.654	302												
350	7.63	7.60	34.289	26.775	132.3	.721	352												
400	6.93	6.89	34.273	26.861	124.4	.785	402												
450	6.57	6.53	34.305	26.935	117.9	.846	453												
500	6.18	6.14	34.325	27.002	111.9	.903	503												

STATION 100 70					RV NEW HORIZON					CALCOFI CRUISE 8102					STATION 100 80				
LATITUDE		LONGITUDE		DAY/MO/YR	MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR	MESSENGER		BOTTOM			
30 21.3 N		119 28.0 W		26/02/81	1725 GMT		3898 M		30 01.0 N		120 07.2 W		26/02/81	1038 GMT		3692 M			
WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS	WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS
360 11 KT		300 06 06 1			1018.3 MB		14.8 C	10.8 C	3/8 CC	340 10 KT					1018.3 MB		14.0 C	10.0 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS												
M	DEG C	DEG C		THETA			D.BAR												
0	16.25	16.25	33.566	24.589	333.9	.000	0												
10	16.24	16.24	33.564	24.590	334.2	.033	10												
20	16.23	16.23	33.565	24.593	334.1	.067	20												
30	16.23	16.23	33.566	24.595	334.3	.100	30												
40	16.23	16.22	33.566	24.595	334.6	.133	40												
50	15.71	15.70	33.504	24.665	328.3	.166	50												
75	13.07	13.06	33.434	25.169	280.7	.242	75												
100	11.02	11.01	33.520	25.622	237.9	.306	100												
125	10.10	10.09	33.657	25.889	212.9	.365	126												
150	9.10	9.08	33.767	26.140	189.5	.415	151												
175	9.28	9.26	33.938	26.245	180.0	.461	176												
200	9.09	9.07	34.054	26.367	168.9	.504	201												
250	8.23	8.20	34.127	26.558	151.4	.584	251												
300	7.67	7.64	34.177	26.680	140.4	.658	302												
350	7.21	7.18	34.224	26.783	131.2	.725	352												
400	6.86	6.82	34.283	26.879	122.7	.788	402												
450	6.51	6.47	34.309	26.946	116.8	.849	453												
500	6.11	6.07	34.334	27.018	110.3	.905	503												
525	6.02	5.97	34.342	27.036	108.8	.932	528												

STATION 100 90					RV NEW HORIZON					CALCOFI CRUISE 8102					RV DAVID STARR JORDAN					STATION 110 32.5				
LATITUDE		LONGITUDE		DAY/MO/YR	MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR	MESSENGER		BOTTOM								
29 41.6 N		120 46.5 W		26/02/81	0612 GMT		3881 M		29 52.2 N		115 49.9 W		26/02/81	0210 GMT		50 M								
WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS	WIND SPEED		WAVES		WEA	BAROMETER		DRY	WET	CLOUDS					
340 17 KT					1016.9 MB		15.2 C	12.9 C		240 08 KT					1015.0 MB		16.4 C	14.0 C						
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS																	
M	DEG C	DEG C		THETA			D.BAR																	
0	17.24	17.24	33.856	24.581	334.7	.000	0																	
10	17.25	17.25	33.863	24.584	334.7	.033	10																	
20	17.26	17.26	33.864	24.583	335.2	.067	20																	
30	17.26	17.26	33.866	24.585	335.3	.100	30																	
40	17.42	17.41	33.924	24.591	335.1	.134	40																	
50	17.55	17.54	33.987	24.609	333.8	.167	50																	
75	17.96	17.95	34.169	24.650	330.8	.250	75																	
100	16.38	16.36	34.093	24.968	301.2	.328	100																	
125	15.00	14.98	34.053	25.247	275.2	.403	126																	
150	11.44	11.42	33.620	25.625	238.9	.467	151																	
175	10.02	10.00	33.696	25.934	209.6	.523	176																	
200	9.41	9.39	33.847	26.153	189.3	.572	201																	
250	8.29	8.26	33.989	26.441	162.5	.659	251																	
300	7.56	7.53	34.049	26.596	148.3	.738	302																	
350	6.85	6.82	34.075	26.715	137.3	.809	352																	
400	6.41	6.37	34.122	26.811	128.6	.875	402																	
450	6.00	5.96	34.164	26.897	120.8	.938	453																	
500	5.87	5.83	34.245	26.978	113.7	.996	503																	

STATION 110 35 RV DAVID STARR JORDAN CALCOFI CRUISE 8102										STATION 110 40														
LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM						
29 47.2 N		115 59.8 W		26/02/81		0610 GMT		90TOM 236 M		29 37.2 N		116 19.7 W		26/02/81		1104 GMT		90TOM 2462 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	
250	16 KT			1016.0 MB	17.5 C	14.8 C		330	12 KT			1015.0 MB	15.1 C	13.8 C						1015.0 MB	15.1 C	13.8 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	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR	
0	16.46	16.46	33.537	24.518	340.7	.000	0	0	16.40	16.40	33.536	24.531	339.4	.000	0	10	16.44	16.44	33.538	24.531	339.8	.034	10	
10	16.44	16.44	33.556	24.538	339.1	.034	10	10	16.41	16.41	33.538	24.531	339.8	.034	10	20	16.39	16.39	33.550	24.545	338.7	.068	20	
20	16.39	16.39	33.550	24.545	338.7	.068	20	20	16.41	16.41	33.533	24.528	340.4	.068	20	30	16.11	16.11	33.549	24.609	333.0	.101	30	
30	16.11	16.11	33.549	24.609	333.0	.101	30	30	16.37	16.37	33.538	24.541	339.5	.102	30	40	15.14	15.13	33.499	24.787	316.3	.133	40	
40	15.14	15.13	33.499	24.787	316.3	.133	40	40	16.07	16.06	33.551	24.604	333.7	.135	40	50	14.15	14.14	33.506	25.004	295.9	.164	50	
50	14.15	14.14	33.506	25.004	295.9	.164	50	50	15.63	15.62	33.506	24.684	326.4	.168	50	75	12.33	12.32	33.655	25.484	250.7	.232	75	
75	12.33	12.32	33.655	25.484	250.7	.232	75	75	13.13	13.12	33.460	25.177	280.0	.243	75	100	10.73	10.72	33.641	25.768	224.1	.291	100	
100	10.73	10.72	33.641	25.768	224.1	.291	100	100	11.54	11.53	33.756	25.712	229.6	.307	100	125	11.04	11.02	33.968	25.968	205.8	.347	126	
125	11.04	11.02	33.968	25.968	205.8	.347	126	125	11.20	11.18	33.912	25.896	212.6	.364	126	150	10.77	10.75	34.142	26.152	188.8	.396	151	
150	10.77	10.75	34.142	26.152	188.8	.396	151	150	10.82	10.80	34.072	26.089	194.8	.415	151	175	10.73	10.71	34.272	26.261	179.1	.441	176	
175	10.73	10.71	34.272	26.261	179.1	.441	176	175	10.37	10.35	34.191	26.261	179.0	.461	176	200	10.40	10.38	34.290	26.333	172.7	.485	201	
200	10.40	10.38	34.290	26.333	172.7	.485	201	200	10.07	10.05	34.268	26.373	168.8	.504	201	250	9.69	9.66	34.394	26.536	154.3	.566	251	
250	9.69	9.66	34.394	26.536	154.3	.566	251	250	9.63	9.60	34.382	26.537	154.2	.585	251	300	9.21	9.18	34.404	26.623	146.9	.642	302	
300	9.21	9.18	34.404	26.623	146.9	.642	302	300	8.78	8.75	34.352	26.635	145.4	.660	302	350	8.68	8.64	34.416	26.718	138.6	.713	352	
350	8.68	8.64	34.416	26.718	138.6	.713	352	350	8.29	8.25	34.334	26.713	138.7	.731	352	400	7.97	7.93	34.365	26.786	132.5	.781	402	
400	7.97	7.93	34.365	26.786	132.5	.781	402	400	7.49	7.45	34.308	26.811	129.7	.798	402	450	7.51	7.47	34.374	26.861	125.9	.846	453	
450	7.51	7.47	34.374	26.861	125.9	.846	453	450	7.10	7.06	34.332	26.885	123.1	.862	453	500	6.90	6.85	34.388	26.957	117.0	.906	503	
500	6.90	6.85	34.388	26.957	117.0	.906	503	500	6.79	6.74	34.353	26.944	118.1	.921	503	512								
512								512	6.67	6.62	34.360	26.966	116.0	.935	515									

STATION 110 45 RV DAVID STARR JORDAN CALCOFI CRUISE 8102										STATION 110 50													
LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
29 27.2 N		116 39.4 W		26/02/81		1520 GMT		613 M		29 17.2 N		116 59.2 W		26/02/81		1940 GMT		3169 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
360	15 KT	320 D4 06 2		1017.0 MB	15.2 C	12.9 C	8/8 AC	330	16 KT	360 D3 06 1		1018.0 MB	16.0 C	13.2 C	7/8 AC					1018.0 MB	16.0 C	13.2 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	DEPTH M	TEMP DEG C	POT TEMP DEG C	SALINITY	SIGMA THETA	SVA	DYN HT	PRESS D.BAR
0	16.90	16.90	33.592	24.458	346.4	.000	0	0	16.59	16.59	33.555	24.502	342.2	.000	0	10	16.91	16.91	33.578	24.446	347.9	.035	10
10	16.91	16.91	33.578	24.446	347.9	.035	10	10	16.56	16.56	33.558	24.512	341.6	.034	10	20	16.91	16.91	33.579	24.447	348.1	.069	20
20	16.91	16.91	33.579	24.447	348.1	.069	20	20	16.53	16.53	33.559	24.520	341.2	.068	20	30	16.92	16.92	33.581	24.446	348.5	.104	30
30	16.92	16.92	33.581	24.446	348.5	.104	30	30	16.52	16.52	33.557	24.521	341.4	.102	30	40	16.82	16.81	33.558	24.452	348.2	.139	40
40	16.82	16.81	33.558	24.452	348.2	.139	40	40	16.26	16.25	33.560	24.583	335.7	.136	40	50	16.54	16.53	33.537	24.502	343.9	.173	50
50	16.54	16.53	33.537	24.502	343.9	.173	50	50	15.99	15.98	33.551	24.638	330.8	.169	50	75	13.95	13.94	33.425	24.984	298.5	.253	75
75	13.95	13.94	33.425	24.984	298.5	.253	75	75	14.49	14.48	33.447	24.887	307.7	.248	75	100	13.14	13.13	33.528	25.229	275.8	.325	100
100	13.14	13.13	33.528	25.229	275.8	.325	100	100	12.76	12.75	33.631	25.383	261.0	.319	100	125	11.61	11.59	33.769	25.709	230.4	.390	126
125	11.61	11.59	33.769	25.709	230.4	.390	126	125	11.17	11.15	33.797	25.811	220.6	.382	126	150	10.96	10.94	33.881	25.915	211.3	.445	151
150	10.96	10.94	33.881	25.915	211.3	.445	151	150	11.01	10.99	33.913	25.931	209.8	.435	151	175	10.23	10.21	33.973	26.115	192.7	.495	176
175	10.23	10.21	33.973	26.115	192.7	.495	176	175	10.09	10.07	34.030	26.183	186.2	.484	176	200	9.81	9.79	34.071	26.263	179.1	.541	201
200	9.81	9.79	34.071	26.263	179.1	.541	201	200	9.84	9.82	34.173	26.337	172.1	.529	201	250	9.05	9.02	34.156	26.454	161.7	.626	251
250	9.05	9.02	34.156	26.454	161.7	.626	251	250	9.12	9.09	34.189	26.469	160.4	.611	251	300	8.76	8.73	34.263	26.584	150.2	.705	302
300	8.76	8.73	34.263	26.584	150.2	.705	302	300	8.67	8.64	34.247	26.586	150.0	.690	302	350	8.26	8.22	34.331	26.715	138.5	.777	352
350	8.26	8.22	34.331	26.715	138.5	.777	352	350	7.42	7.39	34.200	26.735	135.9	.761	352	400	7.88	7.84	34.338	26.778	133.2	.844	402
400	7.88	7.84	34.338	26.778	133.2	.844	402	400	6.99	6.95	34.245	26.831	127.3	.826	402	450	7.54	7.50	34.342	26.831	128.7	.910	453
450	7.54	7.50	34.342	26.831	128.7	.910	453	450	6.70	6.66	34.304	26.917	119.7	.889	453	500	7.19	7.14	34.343	26.882	124.4	.973	503
500	7.19	7.14	34.343	26.882	124.4	.973	503	500	6.44	6.39	34.327	26.970	115.2	.947	503	516	6.98	6.93	34.338	26.907	122.0	.993	519
516	6.98	6.93	34.338	26.907	122.0	.993	519	516															

STATION 110 60 RV DAVID STARR JORDAN CALCOFI CRUISE 8102 RV NEW HORIZON										STATION 110 70													
LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM		LATITUDE		LONGITUDE		DAY/MO/YR		MESSENGER		BOTTOM					
28 57.3 N		117 39.5 W		27/02/81		0245 GMT		3642 M		28 37.0 N		118 18.0 W		27/02/81		2030 GMT		3238 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
360	10 KT			1016.0 MB	15.8 C	12.8 C		100	10 KT	300 D3 06 1		1017.3 MB	17.0 C	12.9 C	1/8 AS					1017.3 MB	17.0		



STATION 110 80

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 119 33

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 17.9 N	118 57.8 W	28/02/81	0108 GMT	3625 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
110	10 KT	340 02 08	1	1014.6 MB	17.3 C	13.0 C	1/3 AS
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.10	17.10	33.639	24.447	347.4	.000	0
10	17.00	17.00	33.635	24.468	345.8	.035	10
20	16.87	16.87	33.637	24.501	343.0	.069	20
30	16.85	16.85	33.635	24.504	343.0	.103	30
40	16.84	16.83	33.634	24.506	343.2	.137	40
50	16.82	16.81	33.633	24.510	343.1	.171	50
75	16.00	15.99	33.568	24.650	330.5	.255	75
100	14.24	14.23	33.661	25.106	287.6	.532	100
125	12.10	12.08	33.638	25.516	248.9	.402	126
150	11.24	11.22	33.785	25.790	223.3	.460	151
175	10.74	10.72	33.970	26.024	201.5	.513	176
200	10.42	10.40	34.133	26.208	184.6	.561	201
250	9.55	9.52	34.237	26.437	163.6	.648	251
300	8.70	8.67	34.267	26.597	149.0	.727	302
350	8.12	8.08	34.310	26.720	137.9	.798	352
400	7.44	7.40	34.302	26.813	129.5	.864	402
450	6.83	6.59	34.276	26.904	120.8	.928	453
500	6.22	6.18	34.302	26.979	114.1	.986	503
520	6.18	6.13	34.325	27.002	112.1	1.008	523

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 17.7 N	114 52.5 W	02/03/81	1125 GMT	113 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
340	14 KT			1013.2 MB	15.8 C	14.6 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	16.89	16.89	33.649	24.504	342.0	.000	0
10	16.90	16.90	33.646	24.500	342.7	.034	10
20	16.83	16.83	33.635	24.508	342.2	.069	20
30	16.30	16.30	33.610	24.612	332.7	.102	30
40	16.09	16.08	33.593	24.647	329.6	.135	40
50	15.72	15.71	33.555	24.702	324.7	.167	50
75	13.67	13.66	33.674	25.233	274.7	.242	75
100	12.20	12.19	33.907	25.705	230.3	.305	100
110	12.05	12.04	33.935	25.756	225.7	.329	110

STATION 120 24

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 120 25

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 25.3 N	114 10.8 W	02/03/81	0004 GMT	42 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
240	12 KT		2	1013.9 MB	19.5 C	17.0 C	8/8 SC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.21	17.21	33.733	24.493	343.0	.000	0
10	16.90	16.90	33.696	24.538	339.1	.034	10
20	16.52	16.52	33.662	24.601	333.4	.067	20
30	16.19	16.19	33.746	24.742	320.3	.100	30
35	15.91	15.90	33.749	24.808	314.2	.116	35

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 23.1 N	114 13.7 W	02/03/81	0058 GMT	44 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
230	13 KT		2	1013.9 MB	17.8 C	16.7 C	8/8 SC
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.62	17.62	33.804	24.450	347.2	.000	0
10	17.16	17.16	33.775	24.538	339.1	.034	10
20	16.81	16.81	33.707	24.568	336.5	.068	20
30	16.18	16.18	33.681	24.694	324.8	.101	30
40	16.02	16.01	33.756	24.789	316.2	.133	40
48	15.31	15.30	33.731	24.926	303.1	.157	48

STATION 120 30

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 120 35

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 13.6 N	114 33.9 W	02/03/81	0434 GMT	89 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
220	15 KT			1014.6 MB	18.1 C	17.0 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.21	17.21	33.796	24.542	338.4	.000	0
10	17.20	17.20	33.799	24.547	338.3	.034	10
20	16.81	16.81	33.819	24.654	328.3	.067	20
30	16.75	16.75	33.818	24.668	327.4	.100	30
40	16.24	16.23	33.800	24.772	317.7	.132	40
50	14.53	14.52	33.697	25.071	289.5	.162	50
75	12.63	12.62	33.717	25.474	251.6	.229	75
92	12.19	12.18	33.849	25.662	234.2	.270	92

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
28 03.2 N	114 53.8 W	02/03/81	0730 GMT	91 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
260	12 KT			1013.9 MB	17.5 C	16.5 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.51	17.51	33.830	24.496	342.8	.000	0
10	17.51	17.51	33.826	24.493	343.4	.034	10
20	17.38	17.38	33.815	24.516	341.5	.068	20
30	17.08	17.08	33.769	24.553	338.3	.102	30
40	17.05	17.04	33.765	24.557	338.3	.136	40
50	16.48	16.47	33.751	24.680	326.9	.169	50
75	13.51	13.50	33.738	25.316	266.8	.243	75
83	13.16	13.15	33.794	25.430	256.2	.264	83

STATION 120 35.4

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 120 45

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
27 56.0 N	115 06.9 W	07/03/81	0330 GMT	37 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
280 15 KT			1018.6 MB	16.7 C	13.9 C		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.07	17.07	33.790	24.570	335.7	.000	0
10	17.08	17.08	33.791	24.569	336.2	.033	10
20	17.08	17.08	33.791	24.569	336.4	.067	20
30	17.07	17.07	33.794	24.574	336.3	.101	30
40	16.18	16.17	33.745	24.744	320.5	.133	40
46	15.72	15.71	33.731	24.837	311.8	.152	46

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
27 43.4 N	115 32.7 W	04/03/81	0649 GMT	1571 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 24 KT			1015.9 MB	16.5 C	13.2 C		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	18.37	18.37	34.035	24.443	347.8	.000	0
10	18.39	18.39	34.043	24.445	349.0	.035	10
20	18.39	18.39	34.046	24.447	349.1	.069	20
30	18.39	18.38	34.044	24.446	348.6	.104	30
40	18.37	18.36	34.041	24.449	348.7	.139	40
50	15.94	15.93	33.733	24.790	315.4	.172	50
75	13.43	13.42	33.654	25.298	268.5	.245	75
100	11.53	11.52	33.792	25.741	220.7	.306	100
125	11.48	11.46	34.170	26.045	199.5	.361	126
150	11.85	11.83	34.380	26.140	190.3	.410	151
175	11.23	11.21	34.442	26.304	175.2	.455	176
200	10.79	10.77	34.475	26.409	165.7	.497	201
250	10.03	10.00	34.460	26.531	155.0	.577	251
300	9.44	9.41	34.432	26.608	148.5	.654	302
350	8.71	8.67	34.395	26.697	140.6	.726	352
400	8.20	8.16	34.410	26.787	132.6	.794	402
450	7.34	7.30	34.379	26.889	123.1	.858	453
500	6.79	6.74	34.384	26.969	115.7	.918	503
526	6.69	6.64	34.408	27.002	112.9	.947	529

STATION 120 50

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 120 60

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
27 33.7 N	115 54.2 W	04/03/81	0315 GMT	4110 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 20 KT			1015.2 MB	16.7 C	14.2 C		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.31	17.31	33.732	24.469	345.4	.000	0
10	17.32	17.32	33.730	24.465	346.0	.034	10
20	17.32	17.32	33.730	24.466	346.3	.069	20
30	17.20	17.20	33.729	24.494	344.0	.103	30
40	15.62	15.61	33.658	24.803	314.8	.136	40
50	14.52	14.51	33.707	25.081	288.6	.166	50
75	12.63	12.62	33.846	25.574	242.1	.232	75
100	11.88	11.87	33.989	25.830	218.4	.290	100
125	11.15	11.13	34.118	26.065	196.6	.343	126
150	10.25	10.23	34.161	26.257	178.7	.390	151
175	9.81	9.79	34.207	26.369	168.5	.433	176
200	10.24	10.22	34.452	26.488	158.0	.474	201
250	9.72	9.69	34.471	26.591	149.1	.550	251
300	9.22	9.19	34.449	26.657	143.7	.624	302
350	8.71	8.67	34.444	26.735	137.0	.694	352
400	8.10	8.06	34.422	26.812	130.2	.760	402
450	7.53	7.49	34.415	26.890	123.2	.824	453
500	7.11	7.06	34.405	26.942	118.7	.884	503

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
27 13.0 N	116 30.7 W	03/03/81	2200 GMT	3635 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
330 21 KT	290 10 04	1	1013.2 MB	18.1 C	14.8 C	4/8 CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.69	17.69	33.844	24.463	345.9	.000	0
10	17.67	17.67	33.844	24.469	345.7	.034	10
20	17.66	17.66	33.844	24.471	345.8	.069	20
30	17.60	17.59	33.837	24.481	345.3	.103	30
40	17.39	17.38	33.800	24.503	343.4	.138	40
50	16.48	16.47	33.608	24.570	337.4	.172	50
75	15.35	15.34	33.578	24.803	315.9	.253	75
100	13.62	13.61	33.770	25.319	267.3	.325	100
125	11.17	11.15	33.670	25.713	230.0	.390	126
150	10.24	10.22	33.743	25.933	209.4	.444	151
175	9.60	9.58	33.916	26.177	186.5	.494	176
200	9.22	9.20	34.012	26.313	174.1	.538	201
250	8.55	8.52	34.117	26.501	156.9	.621	251
300	7.76	7.73	34.137	26.636	144.7	.697	302
350	7.24	7.21	34.190	26.752	134.2	.766	352
400	6.80	6.76	34.226	26.842	126.1	.831	402
450	6.22	6.18	34.242	26.931	117.9	.893	453
500	6.01	5.97	34.305	27.008	111.1	.949	503

STATION 120 70

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 130 28

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
26 54.5 N	117 09.7 W	03/03/81	1639 GMT	4034 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
310 27 KT	280 10 06	1	1014.6 MB	17.3 C	14.0 C	4/8 CU	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.97	17.97	33.896	24.435	348.6	.000	0
10	17.97	17.97	33.895	24.435	349.0	.035	10
20	17.97	17.97	33.895	24.435	349.3	.070	20
30	17.97	17.96	33.896	24.437	349.5	.104	30
40	17.97	17.96	33.894	24.435	350.0	.139	40
50	17.96	17.95	33.892	24.437	350.2	.174	50
75	17.41	17.40	33.832	24.524	342.6	.260	75
100	15.27	15.25	33.727	24.936	304.0	.341	100
125	13.20	13.18	33.654	25.314	268.3	.412	125
150	11.30	11.28	33.756	25.757	226.5	.476	151
175	10.28	10.26	33.882	26.035	200.3	.529	176
200	9.72	9.70	34.067	26.275	177.9	.576	201
250	9.37	9.34	34.281	26.500	157.5	.660	251
300	8.75	8.72	34.320	26.631	145.9	.736	302
350	8.32	8.28	34.368	26.735	136.6	.807	352
400	7.72	7.68	34.372	26.828	128.3	.872	402
450	7.18	7.14	34.387	26.917	120.2	.935	453
500	6.62	6.57	34.378	26.987	113.8	.993	503
526	6.40	6.35	34.386	27.022	110.6	1.022	529

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
26 33.4 N	113 21.9 W	06/03/81	0414 GMT	57 M			
WIND SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS	
260 10 KT			1015.2 MB	17.5 C	12.8 C		
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	18.72	18.72	34.097	24.403	351.6	.000	0
10	18.73	18.73	34.098	24.402	352.1	.035	10
20	18.73	18.73	34.102	24.405	352.1	.070	20
30	17.99	17.98	34.007	24.517	341.9	.105	30
40	16.65	16.64	33.988	24.822	313.0	.137	40
50	16.38	16.37	33.992	24.888	307.1	.168	50
62	15.73	15.72	33.999	25.042	292.8	.204	62

STATION 130 30

RV NEW HORIZON

CALCOFI CRUISE 8102

STATION 130 35

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
26 29.3 N	113 29.5 W	06/03/81	0543 GMT	79 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
260	15 KT			1015.9 MB	15.9 C	11.0 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	18.63	18.63	34.074	24.408	351.2	.000	0
10	18.64	18.64	34.072	24.404	351.9	.035	10
20	18.64	18.64	34.071	24.404	352.2	.070	20
30	18.64	18.63	34.072	24.405	352.5	.105	30
40	16.90	16.89	33.916	24.705	323.9	.139	40
50	16.21	16.20	33.992	24.927	305.3	.170	50
75	13.18	13.17	33.951	25.547	244.8	.238	75

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
26 20.1 N	111 49.0 W	06/03/81	0942 GMT	319 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
250	18 KT		6	1014.2 MB	14.6 C	13.6 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	17.98	17.98	33.972	24.491	343.3	.000	0
10	17.98	17.98	33.970	24.490	343.7	.034	10
20	18.00	18.00	33.972	24.487	344.4	.069	20
30	18.00	17.99	33.972	24.487	344.7	.103	30
40	17.42	17.41	33.944	24.607	333.6	.137	40
50	15.20	15.19	33.820	25.021	294.3	.149	50
75	12.62	12.61	33.704	25.466	252.4	.216	75
100	12.23	12.22	34.039	25.802	221.1	.295	100
125	12.02	12.00	34.388	26.114	192.2	.348	126
150	11.67	11.65	34.449	26.228	182.0	.395	151
175	11.27	11.25	34.493	26.356	172.2	.439	176
200	10.96	10.94	34.518	26.412	165.5	.481	201
250	10.32	10.29	34.520	26.528	155.4	.561	251
278	9.81	9.78	34.511	26.608	145.2	.603	279

STATION 130 39

RV NEW HORIZON

CALCOFI CRUISE 8102

LATITUDE	LONGITUDE	DAY/MO/YR	MESSENGER	BOTTOM			
26 07.2 N	114 00.5 W	06/03/81	1245 GMT	1479 M			
WIND	SPEED	WAVES	WEA	BAROMETER	DRY	WET	CLOUDS
270	27 KT			1014.2 MB	16.0 C	12.6 C	
DEPTH	TEMP	POT TEMP	SALINITY	SIGMA	SVA	DYN HT	PRESS
M	DEG C	DEG C		THETA			D.BAR
0	18.54	18.54	34.033	24.399	352.0	.000	0
10	18.54	18.54	34.034	24.400	352.3	.035	10
20	18.55	18.55	34.033	24.397	352.9	.070	20
30	18.55	18.54	34.032	24.397	353.3	.105	30
40	18.55	18.54	34.031	24.397	353.7	.141	40
50	15.70	15.69	33.605	24.745	320.6	.174	50
75	13.02	13.01	33.863	25.511	248.2	.245	75
100	12.59	12.58	34.118	25.794	222.0	.304	100
125	12.79	12.77	34.313	25.906	212.1	.360	126
150	11.74	11.72	34.301	26.099	194.1	.410	151
175	11.56	11.54	34.436	26.239	181.5	.457	176
200	11.15	11.13	34.501	26.365	170.0	.501	201
250	10.18	10.15	34.506	26.541	154.1	.581	251
300	9.51	9.48	34.499	26.649	144.6	.657	302
350	8.94	8.90	34.485	26.731	137.6	.727	352
400	8.37	8.33	34.457	26.798	131.7	.794	402
450	7.79	7.74	34.453	26.882	124.1	.858	453
500	7.28	7.23	34.441	26.946	118.5	.919	503
533	6.90	6.85	34.438	26.997	113.8	.957	536

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
60	50	10/03/81	1911GMT	37 56.8N	122 52.9W	WEATH 1	
		BOTTOM	47M	WIND 330 25 KT	WAVES 310 0° 06		24.874 307.0
		BAR	1024.0MB	DRY 13.1C WET 12.0C	CLOUDS 7/8 CS		
60	52.5	10/03/81	2141GMT	37 51.8N	123 03.8W	WEATH 1	
		BOTTOM	90M	WIND 320 28 KT	WAVES 320 0° 07		25.018 293.4
		BAR	1022.0MB	DRY 13.8C WET 11.8C	CLOUDS 5/8 CS		
RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
60	70	15/02/81	1930GMT	37 16.9N	124 19.5W	WEATH 1	
		BOTTOM	4050M	WIND 320 15 KT	WAVES 320 0° 05		24.836 310.7
		BAR	1028.4MB	DRY 13.7C WET 12.2C	CLOUDS 5/8 CS		
60	80	15/02/81	0855GMT	36 56.5N	125 05.0W	WEATH	
		BOTTOM	3730M	WIND 330 12 KT	WAVES		24.834 310.8
		BAR	1028.1MB	DRY 13.1C WET 12.0C	CLOUDS		
60	90	15/02/81	0402GMT	36 36.5N	125 48.1W	WEATH 1	
		BOTTOM	4529M	WIND 340 05 KT	WAVES 290 0° 06		24.481 344.5
		BAR	1028.8MB	DRY 10.3C WET 10.2C	CLOUDS 5/8 CS		
RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
62	49.3	10/03/81	1542GMT	37 37.4N	122 35.2W	WEATH 1	
		BOTTOM	28M	WIND 340 22 KT	WAVES 290 05 05		25.474 250.0
		BAR	1024.0MB	DRY 13.0C WET 12.0C	CLOUDS 3/8 CI		
63	50	10/03/81	1224GMT	37 22.6N	122 28.3W	WEATH	
		BOTTOM	28M	WIND 350 05 KT	WAVES		25.106 285.0
		BAR	1025.0MB	DRY 12.1C WET 11.1C	CLOUDS		
63	52	10/03/81	1023GMT	37 18.6N	122 37.1W	WEATH	
		BOTTOM	90M	WIND 350 20 KT	WAVES		25.076 287.8
		BAR	1025.0MB	DRY 13.1C WET 12.1C	CLOUDS		
63	55	10/03/81	0733GMT	37 12.5N	122 50.1W	WEATH	
		BOTTOM	316M	WIND 330 18 KT	WAVES		25.169 279.0
		BAR	1025.0MB	DRY 12.8C WET 11.5C	CLOUDS		
63	60	10/03/81	0343GMT	37 02.4N	123 11.6W	WEATH	
		BOTTOM	2690M	WIND 330 20 KT	WAVES		25.016 293.5
		BAR	1026.0MB	DRY 13.0C WET 11.7C	CLOUDS		
RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
63	70	16/02/81	0023GMT	36 42.8N	123 54.5W	WEATH 1	
		BOTTOM	3730M	WIND 320 06 KT	WAVES 330 06 07		24.866 307.8
		BAR	1028.1MB	DRY 14.9C WET 13.0C	CLOUDS 6/8 ST		
63	80	16/02/81	0618GMT	36 22.6N	124 37.9W	WEATH	
		BOTTOM	4205M	WIND 300 10 KT	WAVES		25.008 294.3
		BAR	1026.8MB	DRY 13.2C WET 12.7C	CLOUDS		
63	90	16/02/81	1208GMT	36 02.7N	125 20.4W	WEATH	
		BOTTOM	4589M	WIND 310 15 KT	WAVES		24.644 329.0
		BAR	1024.7MB	DRY 13.2C WET 13.1C	CLOUDS		
RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
65	60	10/03/81	0050GMT	36 44.9N	122 59.0W	WEATH 1	
		BOTTOM	3021M	WIND 330 15 KT	WAVES 330 03 03		24.996 295.4
		BAR	1024.0MB	DRY 14.2C WET 11.6C	CLOUDS 1/8 CI		
67	49	09/03/81	1226GMT	36 49.1N	121 59.4W	WEATH	
		BOTTOM	519M	WIND 350 06 KT	WAVES		25.108 284.8
		BAR	1022.0MB	DRY 12.5C WET 12.3C	CLOUDS		
67	50	09/03/81	1357GMT	36 47.2N	122 03.4W	WEATH	
		BOTTOM	408M	WIND 330 07 KT	WAVES		25.159 279.9
		BAR	1023.0MB	DRY 12.9C WET 11.6C	CLOUDS		
67	55	09/03/81	1729GMT	36 37.2N	122 24.8W	WEATH 1	
		BOTTOM	2595M	WIND 050 08 KT	WAVES 050 03 04		25.183 277.6
		BAR	1024.0MB	DRY 14.1C WET 12.9C	CLOUDS 1/8 CI		
67	60	09/03/81	2101GMT	36 27.2N	122 46.4W	WEATH 1	
		BOTTOM	3107M	WIND 330 16 KT	WAVES 320 03 03		25.084 287.1
		BAR	1024.0MB	DRY 14.0C WET 12.8C	CLOUDS 2/8 CI		
RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH SVA
67	70	17/02/81	0441GMT	36 07.0N	123 30.0W	WEATH	
		BOTTOM	3635M	WIND 330 12 KT	WAVES		25.001 294.9
		BAR	1023.4MB	DRY 14.7C WET 14.2C	CLOUDS		
67	80	16/02/81	2253GMT	35 47.7N	124 12.2W	WEATH 4	
		BOTTOM	3918M	WIND 330 11 KT	WAVES 360 03 04		24.896 304.9
		BAR	1023.7MB	DRY 14.5C WET 14.5C	CLOUDS		
67	90	16/02/81	1720GMT	35 27.1N	124 53.9W	WEATH 4	
		BOTTOM	3730M	WIND 300 15 KT	WAVES 310 07 07		24.541 339.8
		BAR	1025.7MB	DRY 14.1C WET 14.0C	CLOUDS		

RV DAVID STARR JORDAN				CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA			
68.5	52.3	09/03/81	0845GMT	36 23.9N	122 00.1W	WEATH					
			BOTTOM 390M	WIND	WAVES						
			BAR 1022.0MB	DRY 14.0C	WET 12.4C	CLOUDS					
70	51	09/03/81	0457GMT	36 10.9N	121 43.6W	WEATH					
			BOTTOM 279M	WIND 320 06 KT	WAVES						
			BAR 1022.0MB	DRY 14.8C	WET 13.2C	CLOUDS					
70	53	09/03/81	0212GMT	36 06.9N	121 52.2W	WEATH 0					
			BOTTOM 870M	WIND 330 13 KT	WAVES 300 08 08						
			BAR 1022.0MB	DRY 14.7C	WET 13.7C	CLOUDS 07M					
70	60	08/03/81	2057GMT	35 52.9N	122 21.9W	WEATH 1					
			BOTTOM 3164M	WIND 250 09 KT	WAVES 220 08 08						
			BAR 1024.0MB	DRY 14.7C	WET 13.1C	CLOUDS 27M CI					
RV NEW HORIZON				CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA			
70	70	17/02/81	1149GMT	35 33.1N	123 04.4W	WEATH					
			BOTTOM 3880M	WIND 130 23 KT	WAVES						
			BAR 1022.4MB	DRY 13.7C	WET 13.7C	CLOUDS					
70	80	17/02/81	1627GMT	35 13.0N	123 46.6W	WEATH 2					
			BOTTOM 4149M	WIND 330 22 KT	WAVES 320 05 04						
			BAR 1024.4MB	DRY 12.6C	WET 12.1C	CLOUDS 87% ST					
70	91	18/02/81	0141GMT	34 46.0N	124 30.0W	WEATH 2					
			BOTTOM 4205M	WIND 330 28 KT	WAVES 330 05 04						
			BAR 1023.4MB	DRY 14.3C	WET 13.1C	CLOUDS 87M AS					
RV DAVID STARR JORDAN				CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA			
72	60	08/03/81	1738GMT	35 35.4N	122 09.3W	WEATH 1					
			BOTTOM 2130M	WIND 330 08 KT	WAVES 300 08 08						
			BAR 1024.0MB	DRY 14.7C	WET 12.8C	CLOUDS 27% CI					
73	50	08/03/81	0707GMT	35 38.5N	121 15.3W	WEATH					
			BOTTOM 34M	WIND 330 08 KT	WAVES						
			BAR 1023.0MB	DRY 12.4C	WET 11.0C	CLOUDS					
73	53	08/03/81	0919GMT	35 32.6N	121 28.1W	WEATH					
			BOTTOM 667M	WIND 330 12 KT	WAVES						
			BAR 1023.0MB	DRY 13.2C	WET 12.4C	CLOUDS					
73	60	08/03/81	1413GMT	35 18.6N	121 57.7W	WEATH 4					
			BOTTOM 2410M	WIND 290 09 KT	WAVES 290 12 08						
			BAR 1023.0MB	DRY 11.9C	WET 11.9C	CLOUDS					
RV NEW HORIZON				CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA			
73	70	18/02/81	1716GMT	34 58.5N	122 40.0W	WEATH 1					
			BOTTOM 4165M	WIND 350 15 KT	WAVES 270 08 05						
			BAR 1023.7MB	DRY 15.8C	WET 13.8C	CLOUDS 17% AC					
73	80	18/02/81	1138GMT	34 38.5N	123 21.7W	WEATH					
			BOTTOM 3918M	WIND 350 20 KT	WAVES						
			BAR 1023.4MB	DRY 14.1C	WET 12.8C	CLOUDS					
73	90	18/02/81	0606GMT	34 18.8N	124 03.5W	WEATH					
			BOTTOM 3057M	WIND 340 22 KT	WAVES						
			BAR 1024.7MB	DRY 14.1C	WET 13.0C	CLOUDS					
RV DAVID STARR JORDAN				CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA			
75	50	08/03/81	0430GMT	35 21.0N	121 03.1W	WEATH					
			BOTTOM 233M	WIND 330 11 KT	WAVES						
			BAR 1022.0MB	DRY 14.0C	WET 11.0C	CLOUDS					
77	48	08/03/81	0036GMT	35 07.3N	120 42.4W	WEATH 1					
			BOTTOM 30M	WIND 290 15 KT	WAVES 290 02 03						
			BAR 1022.0MB	DRY 14.2C	WET 12.2C	CLOUDS 47% CU					
77	51	07/03/81	2158GMT	35 01.3N	120 55.1W	WEATH 1					
			BOTTOM 246M	WIND 280 12 KT	WAVES 280 04 05						
			BAR 1022.0MB	DRY 14.0C	WET 11.9C	CLOUDS 47M CC					
77	55	07/03/81	1848GMT	34 53.2N	121 11.9W	WEATH 1					
			BOTTOM 584M	WIND 320 06 KT	WAVES 300 04 05						
			BAR 1022.0MB	DRY 14.2C	WET 12.4C	CLOUDS 17% CI					
77	60	07/03/81	1450GMT	34 43.1N	121 32.8W	WEATH 0					
			BOTTOM 962M	WIND 330 07 KT	WAVES 300 03 07						
			BAR 1020.0MB	DRY 12.9C	WET 10.5C	CLOUDS 07M					

RV NEW HORIZON		CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA	
77	70	18/02/81	2232GMT	34 23.7N	122 15.2W	WEATH 1			
		BOTTOM 4110M WIND 330 18 KT WAVES							
		BAR 1020.7MB DRY 17.8C WET 15.2C CLOUDS 1/2 ST							
77	80	19/02/81	0341GMT	34 03.1N	122 56.3W	WEATH			
		BOTTOM 4205M WIND 330 16 KT WAVES							
		BAR 1022.0MB DRY 14.9C WET 13.4C CLOUDS							
77	90	19/02/81	0853GMT	33 43.6N	123 37.9W	WEATH			
		BOTTOM 4493M WIND 350 15 KT WAVES							
		BAR 1023.4MB DRY 14.8C WET 14.2C CLOUDS							

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA	
78	60	07/03/81	12016MT	34 26.8N	121 21.4W	WEATH			
		BOTTOM 2130M WIND 320 10 KT WAVES							
		BAR 1019.0MB DRY 13.4C WET 11.2C CLOUDS							
80	51	06/03/81	23516MT	34 27.0N	120 31.0W	WEATH 1			
		BOTTOM 65M WIND 320 15 KT WAVES 310 03 04							
		BAR 1015.0MB DRY 13.9C WET 11.9C CLOUDS 2/R CU							
80	55	07/03/81	02516MT	34 19.0N	120 47.9W	WEATH			
		BOTTOM 768M WIND 310 14 KT WAVES							
		BAR 1017.0MB DRY 13.8C WET 10.8C CLOUDS							
80	60	07/03/81	07146MT	34 09.1N	121 08.9W	WEATH			
		BOTTOM 2316M WIND 320 13 KT WAVES							
		BAR 1018.0MB DRY 13.8C WET 10.1C CLOUDS							

RV NEW HORIZON		CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA	
80	70	20/02/81	05096MT	33 49.2N	121 50.4W	WEATH			
		BOTTOM 3730M WIND 340 40 KT WAVES							
		BAR 1023.7MB DRY 14.2C WET 13.0C CLOUDS							
80	80	19/02/81	22176MT	33 29.0N	122 32.1W	WEATH 2			
		BOTTOM 4110M WIND 340 25 KT WAVES 330 04 08							
		BAR 1024.0MB DRY 15.0C WET 14.3C CLOUDS 8/8 NS							
80	90	19/02/81	16206MT	33 09.3N	123 13.7W	WEATH 4			
		BOTTOM 4302M WIND 350 02 KT WAVES 330 08 05							
		BAR 1024.7MB DRY 14.2C WET 14.2C CLOUDS							

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA	
81	47	05/03/81	21156MT	34 25.0N	120 09.6W	WEATH 1			
		BOTTOM 78M WIND 230 09 KT WAVES 220 02 03							
		BAR 1015.0MB DRY 15.0C WET 12.0C CLOUDS 5/8 CB							
82	44	20/02/81	23246MT	34 23.3N	119 50.1W	WEATH 1			
		BOTTOM 56M WIND 240 07 KT WAVES 230 02 05							
		BAR 1011.0MB DRY 18.2C WET 14.2C CLOUDS 1/8 CI							
82	46	19/02/81	11386MT	34 16.2N	119 56.3W	WEATH			
		BOTTOM 528M WIND 270 02 KT WAVES							
		BAR 1019.0MB DRY 14.9C WET 14.4C CLOUDS							
82	50	20/02/81	19306MT	34 11.2N	120 15.2W	WEATH 0			
		BOTTOM 482M WIND 320 28 KT WAVES 290 08 06							
		BAR 1015.0MB DRY 15.5C WET 13.2C CLOUDS 0/8							
82	55	19/02/81	23236MT	34 01.3N	120 36.0W	WEATH 2			
		BOTTOM 833M WIND 340 27 KT WAVES 310 06 05							
		BAR 1019.0MB DRY 14.5C WET 13.9C CLOUDS 8/8 ST							
82	60	20/02/81	02286MT	33 51.3N	120 56.8W	WEATH			
		BOTTOM 2690M WIND 330 28 KT WAVES							
		BAR 1021.0MB DRY 14.0C WET 13.7C CLOUDS							
83	40.6	19/02/81	06286MT	34 13.2N	119 24.3W	WEATH			
		BOTTOM 37M WIND 280 04 KT WAVES							
		BAR 1019.0MB DRY 16.3C WET 15.7C CLOUDS							
83	42	19/02/81	07446MT	34 10.6N	119 30.0W	WEATH			
		BOTTOM 140M WIND 290 10 KT WAVES							
		BAR 1020.0MB DRY 16.3C WET 14.0C CLOUDS							
83	51	19/02/81	105 GMT	33 52.7N	120 08.0W	WEATH 1			
		BOTTOM 127M WIND 310 16 KT WAVES 270 03 03							
		BAR 1020.0MB DRY 16.5C WET 14.3C CLOUDS 1/8 CC							
83	55	19/02/81	19556MT	33 44.7N	120 24.6W	WEATH 1			
		BOTTOM 768M WIND 320 20 KT WAVES 310 03 03							
		BAR 1020.0MB DRY 16.0C WET 15.0C CLOUDS 3/8 CC							
83	60	20/02/81	06126MT	33 34.6N	120 45.3W	WEATH			
		BOTTOM 1479M WIND 330 30 KT WAVES							
		BAR 1021.0MB DRY 14.9C WET 12.9C CLOUDS							

RV NEW HORIZON		CALCOFI CRUISE 8102				10 METER DATA			
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA	
83	70	20/02/81	09536MT	33 14.8N	121 26.3W	WEATH			
		BOTTOM 3730M WIND 350 40 KT WAVES							
		BAR 1023.4MB DRY 14.0C WET 11.2C CLOUDS							

LINE	STA		Z	T	S	02	02 PCT	SIG TH	SWA
85	38	19/02/81 0324GMT 34 01.0N 119 02.0W WEATH 1 BOTTOM 80M WIND 310 13 KT WAVES BAR 1018.0MB DRY 16.8C WET 14.6C CLOUDS 5/8 CS	10	14.80	33.505			24.864	308.0
85	40	19/02/81 0231GMT 33 57.0N 119 10.3W WEATH BOTTOM 759M WIND 330 07 KT WAVES BAR 1018.0MB DRY 17.0C WET 15.1C CLOUDS	10	14.86	33.504			24.850	309.4
85	45	18/02/81 2351GMT 33 47.0N 119 31.1W WEATH 1 BOTTOM 1934M WIND 280 03 KT WAVES 270 03 04 BAR 1018.0MB DRY 19.2C WET 16.8C CLOUDS 1/8 CC	10	14.85	33.503			24.852	309.2
85	50	18/02/81 2107GMT 33 37.0N 119 51.8W WEATH 1 BOTTOM 233M WIND 090 03 KT WAVES 270 03 04 BAR 1018.0MB DRY 19.7C WET 17.0C CLOUDS 1/8 CI	10	14.56	33.503			24.914	303.3
85	55	21/02/81 0616GMT 33 27.0N 120 12.3W WEATH BOTTOM 1184M WIND 030 13 KT WAVES BAR 1014.0MB DRY 16.8C WET 12.2C CLOUDS	10	13.89	33.502			25.053	290.0
85	60	18/02/81 1615GMT 33 17.0N 120 33.1W WEATH 1 BOTTOM 1110M WIND 350 13 KT WAVES 340 07 03 BAR 1017.0MB DRY 16.0C WET 14.6C CLOUDS 1/8 CS	10	14.38	33.484			24.937	301.0
87	33	17/02/81 1435GMT 33 53.8N 118 29.8W WEATH 1 BOTTOM 54M WIND 270 07 KT WAVES 290 02 08 BAR 1013.0MB DRY 15.3C WET 14.1C CLOUDS 1/8 CS	10	14.76	33.463			24.840	310.3
87	35	17/02/81 1640GMT 33 49.4N 118 37.7W WEATH 0 BOTTOM 851M WIND 120 06 KT WAVES 290 02 03 BAR 1014.0MB DRY 17.0C WET 15.3C CLOUDS 0/8	10	14.57	33.425			24.851	309.2
87	40	17/02/81 2045GMT 33 39.4N 118 58.5W WEATH 0 BOTTOM 722M WIND 270 13 KT WAVES 270 02 04 BAR 1014.0MB DRY 18.0C WET 16.0C CLOUDS 0/8	10	15.36	33.519			24.753	318.6
87	45	18/02/81 0035GMT 33 29.4N 119 19.1W WEATH 0 BOTTOM 1757M WIND 300 14 KT WAVES 300 03 04 BAR 1014.0MB DRY 17.8C WET 15.8C CLOUDS 0/8	10	15.22	33.517			24.782	315.8
87	50	18/02/81 0426GMT 33 19.3N 119 39.6W WEATH BOTTOM 80M WIND 320 16 KT WAVES BAR 1016.0MB DRY 15.6C WET 14.2C CLOUDS	10	14.38	33.488			24.940	300.8
87	55	18/02/81 0754GMT 33 09.4N 120 00.4W WEATH BOTTOM 1202M WIND 330 19 KT WAVES BAR 1016.0MB DRY 16.2C WET 14.2C CLOUDS	10	15.00	33.523			24.834	310.8
87	60	18/02/81 1158GMT 32 59.4N 120 21.0W WEATH BOTTOM 724M WIND 240 19 KT WAVES BAR 1016.0MB DRY 15.2C WET 14.9C CLOUDS	10	14.89	33.515			24.852	309.2
88	33	17/02/81 1145GMT 33 36.7N 118 18.4W WEATH BOTTOM 602M WIND 070 05 KT WAVES BAR 1012.0MB DRY 15.5C WET 15.0C CLOUDS	10	14.71	33.466			24.853	309.1
88	35	17/02/81 1045GMT 33 32.7N 118 26.7W WEATH BOTTOM 888M WIND 120 07 KT WAVES BAR 1014.0MB DRY 17.0C WET 15.1C CLOUDS	10	14.59	33.473			24.884	306.1
88	40	17/02/81 0751GMT 33 22.6N 118 47.1W WEATH BOTTOM 1332M WIND 300 10 KT WAVES BAR 1014.0MB DRY 16.8C WET 15.1C CLOUDS	10	15.16	33.500			24.782	315.8
88	45	17/02/81 0515GMT 33 12.6N 119 08.0W WEATH BOTTOM 1184M WIND 300 12 KT WAVES BAR 1014.5MB DRY 16.2C WET 14.8C CLOUDS	10	15.10	33.513			24.805	313.6
88	50	17/02/81 0227GMT 33 02.7N 119 28.6W WEATH BOTTOM 778M WIND 330 20 KT WAVES BAR 1014.5MB DRY 16.0C WET 14.4C CLOUDS	10	15.79	33.514			24.653	328.1
88	55	16/02/81 2334GMT 32 52.7N 119 49.1W WEATH 1 BOTTOM 1073M WIND 270 16 KT WAVES 300 07 05 BAR 1015.0MB DRY 17.8C WET 15.2C CLOUDS 5/8 CS	10	15.40	33.522			24.746	319.3
88	60	16/02/81 2019GMT 32 42.7N 120 09.6W WEATH 1 BOTTOM 492M WIND 340 16 KT WAVES 300 07 04 BAR 1016.0MB DRY 17.4C WET 15.3C CLOUDS 2/8 CI	10	14.92	33.512			24.843	310.0
90	28	15/02/81 1420GMT 33 29.1N 117 46.1W WEATH 1 BOTTOM 65M WIND 340 05 KT WAVES 300 01 05 BAR 1017.0MB DRY 16.0C WET 13.9C CLOUDS 5/8 CS	10	14.87	33.461			24.815	312.7
90	30	15/02/81 1808GMT 33 25.1N 117 54.3W WEATH 4 BOTTOM 602M WIND WAVES 300 02 04 BAR 1019.0MB DRY 14.3C WET 14.0C CLOUDS	10	15.44	33.516			24.733	320.5
90	37	15/02/81 2139GMT 33 11.1N 118 23.2W WEATH 1 BOTTOM 1193M WIND 270 13 KT WAVES 270 03 04 BAR 1016.0MB DRY 16.9C WET 15.8C CLOUDS 6/8 CS	10	15.14	33.512			24.796	314.6
90	45	16/02/81 0427GMT 32 55.1N 118 56.0W WEATH BOTTOM 1849M WIND 330 11 KT WAVES BAR 1015.0MB DRY 16.9C WET 15.9C CLOUDS	10	15.86	33.514			24.638	329.6
90	53	16/02/81 1030GMT 32 39.1N 119 28.9W WEATH BOTTOM 1373M WIND 330 17 KT WAVES BAR 1014.0MB DRY 16.4C WET 15.3C CLOUDS	10	15.67	33.534			24.696	324.1
90	60	16/02/81 1605GMT 32 25.4N 119 57.6W WEATH 1 BOTTOM 1605M WIND 330 17 KT WAVES 300 02 03 BAR 1016.0MB DRY 16.2C WET 15.2C CLOUDS 6/8 CS	10	14.82	33.488			24.846	309.7

LINE	STA		Z	T	S	02	07	PCT	SIG	TH	SVA
92	27	15/02/81 1050GMT 33 13.4N 117 30.4W WEATH BOTTOM 102M WIND 340 06 KT WAVES BAR 1019.0MB DRY 16.2C WET 15.0C CLOUDS	10	15.07	33.499				24.793	314.8	
92	30	15/02/81 0900GMT 33 07.4N 117 42.8W WEATH BOTTOM 815M WIND 310 05 KT WAVES BAR 1019.0MB DRY 16.2C WET 15.4C CLOUDS	10	15.59	33.496				24.677	325.9	
92	35	15/02/81 0610GMT 32 57.3N 118 03.3W WEATH 1 BOTTOM 925M WIND 310 13 KT WAVES BAR 1019.0MB DRY 16.5C WET 15.2C CLOUDS 5/P CS	10	15.12	33.672				24.923	302.4	
92	40	15/02/81 0322GMT 32 47.4N 118 23.8W WEATH 1 BOTTOM 93M WIND 300 25 KT WAVES BAR 1020.0MB DRY 15.7C WET 14.8C CLOUDS 5/P CS	10	15.30	33.512				24.760	317.9	
92	45	15/02/81 0020GMT 32 37.4N 118 44.3W WEATH 1 BOTTOM 1202M WIND 310 14 KT WAVES 300 03 04 BAR 1021.0MB DRY 16.2C WET 15.3C CLOUDS 4/P CS	10		33.533						
92	50	14/02/81 2127GMT 32 27.4N 119 04.8W WEATH 1 BOTTOM 90M WIND 310 16 KT WAVES 300 03 05 BAR 1023.0MB DRY 16.8C WET 15.8C CLOUDS 6/P CS	10	15.35	33.500				24.740	319.8	
92	55	14/02/81 1705GMT 32 17.3N 119 25.2W WEATH 1 BOTTOM 136M WIND 320 18 KT WAVES 300 02 06 BAR 1025.0MB DRY 18.0C WET 16.9C CLOUDS 5/P CS	10	15.38	33.674				24.868	307.7	
92	60	14/02/81 1340GMT 32 07.4N 119 45.6W WEATH BOTTOM 157M WIND 320 12 KT WAVES BAR 1023.0MB DRY 16.0C WET 15.0C CLOUDS	10	15.49	33.541				24.741	319.7	
93	26.7	13/02/81 0626GMT 32 57.5N 117 18.3W WEATH BOTTOM 60M WIND 350 09 KT WAVES BAR 1023.0MB DRY 16.3C WET 14.6C CLOUDS	10	15.06	33.482				24.790	315.1	
93	28	13/02/81 0752GMT 32 54.8N 117 23.7W WEATH BOTTOM 648M WIND 290 08 KT WAVES BAR 1023.0MB DRY 15.9C WET 14.2C CLOUDS	10	15.38	33.509				24.740	319.8	
93	30	13/02/81 1007GMT 32 50.8N 117 31.9W WEATH BOTTOM 851M WIND 350 08 KT WAVES BAR 1022.0MB DRY 18.0C WET 16.5C CLOUDS	10	15.27	33.502				24.759	318.0	
93	35	13/02/81 1410GMT 32 40.8N 117 52.4W WEATH BOTTOM 611M WIND 350 09 KT WAVES BAR 1022.0MB DRY 16.7C WET 15.1C CLOUDS	10	15.47	33.498				24.712	322.5	
93	40	13/02/81 1845GMT 32 30.7N 118 12.8W WEATH 1 BOTTOM 1664M WIND 360 08 KT WAVES 300 02 04 BAR 1021.0MB DRY 18.0C WET 16.1C CLOUDS 5/P CS	10	15.97	33.515				24.614	331.9	
93	45	13/02/81 2218GMT 32 20.8N 118 33.3W WEATH 1 BOTTOM 1165M WIND 350 09 KT WAVES 300 01 06 BAR 1022.0MB DRY 17.9C WET 16.1C CLOUDS 6/P CS	10	15.06	33.436				24.754	318.5	
93	50	14/02/81 0215GMT 32 10.8N 118 53.6W WEATH BOTTOM 1359M WIND 350 09 KT WAVES BAR 1022.5MB DRY 16.9C WET 15.5C CLOUDS	10	15.46	33.640				24.823	311.9	
93	55	14/02/81 0607GMT 32 00.8N 119 13.9W WEATH BOTTOM 1485M WIND 320 16 KT WAVES BAR 1025.0MB DRY 16.5C WET 15.0C CLOUDS	10	15.46	33.631				24.817	312.5	
93	60	14/02/81 0935GMT 31 50.8N 119 34.3W WEATH BOTTOM 558M WIND 350 12 KT WAVES BAR 1022.0MB DRY 17.0C WET 15.1C CLOUDS	10	15.34	33.595				24.816	312.7	
95	29	24/02/81 0220GMT 32 35.1N 117 16.3W WEATH BOTTOM 56M WIND 300 10 KT WAVES BAR 1012.0MB DRY 16.9C WET 15.0C CLOUDS	10	16.52	33.518				24.490	343.6	
95	30	03/03/81 1305GMT 32 33.1N 117 20.3W WEATH BOTTOM 112M WIND 350 12 KT WAVES BAR 1009.0MB DRY 13.8C WET 12.4C CLOUDS	10	15.31	33.480				24.734	320.4	
95	35	03/03/81 1551GMT 32 23.1N 117 40.8W WEATH 1 BOTTOM 1479M WIND 320 14 KT WAVES 270 04 03 BAR 1010.0MB DRY 14.6C WET 12.5C CLOUDS 4/R CU	10	15.70	33.433				24.611	332.1	
95	40	03/03/81 1837GMT 32 13.0N 118 01.3W WEATH 1 BOTTOM 1812M WIND 310 18 KT WAVES 290 04 05 BAR 1012.0MB DRY 15.8C WET 13.9C CLOUDS 3/P CU	10	16.11	33.526				24.590	334.1	
95	45	03/03/81 2145GMT 32 03.1N 118 21.5W WEATH 1 BOTTOM 1202M WIND 320 22 KT WAVES 300 05 05 BAR 1012.0MB DRY 15.5C WET 13.4C CLOUDS 5/S CU	10	16.11	33.525				24.590	334.2	
95	50	04/03/81 0047GMT 31 53.1N 118 41.8W WEATH 2 BOTTOM 1114M WIND 310 25 KT WAVES 290 06 04 BAR 1012.0MB DRY 15.0C WET 13.0C CLOUDS 8/S SC	10	15.52	33.530				24.726	321.2	
95	55	04/03/81 0355GMT 31 43.1N 119 02.1W WEATH BOTTOM 1856M WIND 300 26 KT WAVES BAR 1014.0MB DRY 14.3C WET 12.5C CLOUDS	10	15.36	33.468				24.714	322.4	
95	60	04/03/81 0648GMT 31 33.1N 119 22.4W WEATH BOTTOM 3358M WIND 300 20 KT WAVES BAR 1015.0MB DRY 14.6C WET 11.7C CLOUDS	10	16.02	33.524				24.609	332.3	
97	29	24/02/81 0602GMT 32 17.4N 117 04.8W WEATH BOTTOM 30M WIND 040 06 KT WAVES BAR 1012.0MB DRY 14.5C WET 12.9C CLOUDS	10		33.517						



RV DAVID STARR JORDAN		CALCOFI CRUISE 8102				10 METER DATA							
LINE	STA					Z	T	S	02	07	PCT	SIG TH	SVA
97	29	05/03/81	1002GMT	32 17.4N	117 04.6W	WEATH 6	10	15.33	33.760		24.714	322.3	
		BOTTOM 54M WIND 130 18 KT WAVES BAR 1003.0MB DRY 12.6C WET 11.4C CLOUDS											
97	30	05/03/81	0855GMT	32 15.4N	117 06.6W	WEATH 6	10	15.48	33.471		24.689	324.6	
		BOTTOM 56M WIND 120 18 KT WAVES BAR 1005.0MB DRY 12.9C WET 12.8C CLOUDS											
97	32	05/03/81	0655GMT	32 11.4N	117 17.0W	WEATH 6	10	15.46	33.476		24.698	323.9	
		BOTTOM 1479M WIND 180 35 KT WAVES BAR 1007.0MB DRY 13.0C WET 12.9C CLOUDS											
97	35	05/03/81	0424GMT	32 05.3N	117 29.2W	WEATH	10	15.58	33.498		24.688	324.8	
		BOTTOM 1295M WIND 170 25 KT WAVES BAR 1013.0MB DRY 15.7C WET 13.4C CLOUDS											
97	40	05/03/81	0051GMT	31 55.4N	117 49.5W	WEATH 1	10	16.22	33.550		24.584	334.7	
		BOTTOM 925M WIND 190 22 KT WAVES 200 04 04 BAR 1011.0MB DRY 15.7C WET 12.2C CLOUDS 4/8 CU											
97	45	04/03/81	2130GMT	31 45.4N	118 09.8W	WEATH 1	10	16.32	33.570		24.576	335.5	
		BOTTOM 1387M WIND 200 18 KT WAVES 200 03 03 BAR 1013.0MB DRY 16.9C WET 13.1C CLOUDS 5/8 CU											
97	50	04/03/81	1747GMT	31 35.3N	118 30.2W	WEATH 2	10	16.39	33.594		24.579	335.2	
		BOTTOM 2462M WIND 230 08 KT WAVES 250 04 05 BAR 1015.0MB DRY 15.9C WET 12.1C CLOUDS 8/5 CU											
97	55	04/03/81	1335GMT	31 25.3N	118 50.3W	WEATH 2	10	16.44	33.604		24.575	335.6	
		BOTTOM 798M WIND 270 09 KT WAVES BAR 1015.0MB DRY 14.8C WET 10.4C CLOUDS 8/8 SC											
97	60	04/03/81	0940GMT	31 15.4N	119 10.4W	WEATH	10	16.22	33.546		24.581	335.0	
		BOTTOM 3642M WIND 290 15 KT WAVES BAR 1015.0MB DRY 15.0C WET 11.3C CLOUDS											
RV NEW HORIZON		CALCOFI CRUISE 8102				10 METER DATA							
LINE	STA					Z	T	S	02	02	PCT	SIG TH	SVA
97	70	25/02/81	1244GMT	30 56.0N	119 50.8W	WEATH	10	15.12	33.508		24.797	314.4	
		BOTTOM 3587M WIND 300 10 KT WAVES BAR 1014.6MB DRY 13.4C WET 10.8C CLOUDS											
97	80	25/02/81	1808GMT	30 35.2N	120 30.1W	WEATH 1	10	15.58	33.434		24.639	329.5	
		BOTTOM 3966M WIND 240 15 KT WAVES 170 02 10 BAR 1014.9MB DRY 15.5C WET 12.1C CLOUDS 6/8 CU											
97	90	26/02/81	0009GMT	30 14.2N	121 11.3W	WEATH 1	10	16.06	33.510		24.589	334.2	
		BOTTOM 3767M WIND 280 12 KT WAVES 160 08 06 BAR 1013.9MB DRY 14.1C WET 13.3C CLOUDS 7/8 SC											
RV DAVID STARR JORDAN		CALCOFI CRUISE 8102				10 METER DATA							
LINE	STA					Z	T	S	02	02	PCT	SIG TH	SVA
98	29	24/02/81	0855GMT	32 00.8N	116 54.0W	WEATH	10	15.65	33.525		24.693	324.3	
		BOTTOM 84M WIND 360 08 KT WAVES BAR 1012.0MB DRY 14.2C WET 13.1C CLOUDS											
98	29	03/03/81	0607GMT	32 00.8N	116 54.0W	WEATH	10	15.26	33.422		24.700	323.6	
		BOTTOM 93M WIND 110 10 KT WAVES BAR 1009.0MB DRY 14.4C WET 11.9C CLOUDS											
98	35	24/02/81	1224GMT	31 48.8N	117 18.1W	WEATH	10	16.02	33.506		24.595	333.6	
		BOTTOM 1295M WIND 310 15 KT WAVES BAR 1012.0MB DRY 15.8C WET 13.3C CLOUDS											
98	40	24/02/81	1532GMT	31 38.6N	117 38.4W	WEATH 0	10	15.72	33.512		24.667	326.8	
		BOTTOM 1387M WIND 350 09 KT WAVES 350 02 03 BAR 1012.0MB DRY 16.7C WET 14.2C CLOUDS 0/8											
100	29.3	03/03/81	0220GMT	31 42.7N	116 43.8W	WEATH	10	15.05	33.515		24.818	312.4	
		BOTTOM 84M WIND 180 15 KT WAVES BAR 1008.0MB DRY 14.2C WET 12.4C CLOUDS											
100	30	03/03/81	0055GMT	31 41.2N	116 46.6W	WEATH 1	10	15.04	33.464		24.781	316.0	
		BOTTOM 325M WIND 190 13 KT WAVES 200 04 03 BAR 1006.0MB DRY 15.4C WET 13.8C CLOUDS 7/8 SC											
100	35	02/03/81	2003GMT	31 31.2N	117 06.9W	WEATH 5	10	15.60	33.491		24.678	325.7	
		BOTTOM 1295M WIND 180 23 KT WAVES 200 05 03 BAR 1010.0MB DRY 13.4C WET 13.2C CLOUDS 8/8 SC											
100	40	24/02/81	1818GMT	31 21.2N	117 27.2W	WEATH 1	10	16.39	33.523		24.524	340.4	
		BOTTOM 1887M WIND 360 08 KT WAVES 290 03 03 BAR 1014.0MB DRY 16.9C WET 13.8C CLOUDS 1/8 CU											
100	40	02/03/81	1440GMT	31 21.0N	117 27.2W	WEATH 1	10	15.52	33.491		24.696	324.0	
		BOTTOM 1943M WIND 220 10 KT WAVES 200 04 05 BAR 1010.0MB DRY 15.4C WET 13.0C CLOUDS 3/8 SC											
100	45	02/03/81	0957GMT	31 11.2N	117 47.2W	WEATH	10	16.25	33.537		24.567	336.4	
		BOTTOM 1763M WIND 200 10 KT WAVES BAR 1011.0MB DRY 15.4C WET 12.9C CLOUDS											
100	50	02/03/81	0514GMT	31 01.2N	118 07.3W	WEATH	10	16.27	33.545		24.569	336.2	
		BOTTOM 1856M WIND 250 12 KT WAVES BAR 1011.0MB DRY 16.3C WET 13.6C CLOUDS											
100	55	02/03/81	0222GMT	30 51.0N	118 27.4W	WEATH	10	16.25	33.549		24.576	335.5	
		BOTTOM 2416M WIND 270 16 KT WAVES BAR 1011.0MB DRY 16.3C WET 13.0C CLOUDS											
100	60	02/03/81	2227GMT	30 41.2N	118 47.5W	WEATH 1	10	16.29	33.518		24.545	338.6	
		BOTTOM 2962M WIND 240 15 KT WAVES 260 05 03 BAR 1011.0MB DRY 16.8C WET 15.0C CLOUDS 4/8 CU											

RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02 02 PCT	SIG TH	SVA
100	70	26/02/81	1808GMT	30 21.3N	119 28.0W	WEATH 1	
				30TTOM 3892M	WIND 360 11 KT	WAVES 300 01 06	
				BAR 1018.3MB	DRY 14.8C WET 10.8C	CLOUDS 3/8 CC	24.597 335.9
100	80	26/02/81	1113GMT	30 01.0N	120 07.2W	WEATH	
				30TTOM 3692M	WIND 340 10 KT	WAVES	
				BAR 1018.3MB	DRY 14.0C WET 10.0C	CLOUDS	24.612 332.0
100	90	26/02/81	0647GMT	29 41.6N	120 46.5W	WEATH	
				30TTOM 3991M	WIND 340 17 KT	WAVES	
				BAR 1016.9MB	DRY 15.2C WET 12.9C	CLOUDS	24.605 332.7

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02 02 PCT	SIG TH	SVA
102	29	25/02/81	0314GMT	31 25.5N	116 31.2W	WEATH	
				30TTOM 19M	WIND 320 12 KT	WAVES	
				BAR 1011.0MB	DRY 15.4C WET 13.5C	CLOUDS	24.869 307.6
102	35	24/02/81	2356GMT	31 13.3N	116 55.6W	WEATH 0	
				30TTOM 1295M	WIND 310 13 KT	WAVES 310 02 04	
				BAR 1011.0MB	DRY 17.8C WET 13.8C	CLOUDS 0/5	24.554 337.6
102	40	24/02/81	2110GMT	31 03.5N	117 15.5W	WEATH 0	
				30TTOM 1642M	WIND 310 10 KT	WAVES 300 02 05	
				BAR 1012.0MB	DRY 16.9C WET 13.8C	CLOUDS 0/8	24.511 341.7
102	60	01/03/81	1908GMT	30 23.5N	118 35.7W	WEATH 6	
				30TTOM 2303M	WIND 260 11 KT	WAVES 200 05 03	
				BAR 1012.0MB	DRY 15.0C WET 13.7C	CLOUDS	24.539 339.0
103	29	25/02/81	0601GMT	31 08.5N	116 20.1W	WEATH	
				30TTOM 26M	WIND 080 05 KT	WAVES	
				BAR 1012.0MB	DRY 14.8C WET 13.2C	CLOUDS	24.857 308.7
103	29	28/02/81	1534GMT	31 08.9N	116 20.5W	WEATH 1	
				30TTOM 19M	WIND 260 09 KT	WAVES 300 02 03	
				BAR 1016.0MB	DRY 13.9C WET 12.7C	CLOUDS 1/8 CU	24.945 300.4
103	30	28/02/81	1659GMT	31 06.7N	116 24.0W	WEATH 1	
				30TTOM 56M	WIND 090 08 KT	WAVES 090 02 03	
				BAR 1017.0MB	DRY 15.9C WET 13.7C	CLOUDS 3/8 CI	24.800 314.1
103	35	28/02/81	2044GMT	30 56.9N	116 44.6W	WEATH 1	
				30TTOM 1300M	WIND 150 14 KT	WAVES 120 02 03	
				BAR 1015.0MB	DRY 16.0C WET 13.6C	CLOUDS 5/8 CS	24.564 336.6
103	40	01/03/81	0046GMT	30 46.9N	117 04.7W	WEATH 1	
				30TTOM 1298M	WIND 180 20 KT	WAVES 140 03 03	
				BAR 1014.0MB	DRY 16.9C WET 15.0C	CLOUDS 5/8 CS	24.557 337.3
103	45	01/03/81	0435GMT	30 36.9N	117 24.7W	WEATH	
				30TTOM 2181M	WIND 180 20 KT	WAVES	
				BAR 1014.0MB	DRY 16.5C WET 15.2C	CLOUDS	24.526 340.3
103	50	01/03/81	0834GMT	30 26.9N	117 44.7W	WEATH	
				30TTOM 1003M	WIND 180 20 KT	WAVES	
				BAR 1013.0MB	DRY 17.4C WET 16.1C	CLOUDS	24.515 341.3
103	55	01/03/81	1248GMT	30 16.9N	118 04.5W	WEATH	
				30TTOM 1949M	WIND 220 18 KT	WAVES	
				BAR 1011.0MB	DRY 16.6C WET 15.5C	CLOUDS	24.558 337.2
103	60	01/03/81	1541GMT	30 07.0N	118 24.5W	WEATH 2	
				30TTOM 3358M	WIND 220 28 KT	WAVES 210 05 03	
				BAR 1010.0MB	DRY 17.4C WET 15.1C	CLOUDS 8/8 CU	24.561 337.0

RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02 02 PCT	SIG TH	SVA
103	70	26/02/81	2249GMT	29 46.8N	119 04.5W	WEATH 1	
				30TTOM 3447M	WIND 050 14 KT	WAVES 290 04 05	
				BAR 1017.6MB	DRY 17.5C WET 12.2C	CLOUDS 6/8 CC	24.573 335.8
103	80	27/02/81	0404GMT	29 27.9N	119 43.8W	WEATH	
				30TTOM 3635M	WIND 030 06 KT	WAVES	
				BAR 1018.6MB	DRY 14.8C WET 10.8C	CLOUDS	24.543 338.6

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA			
LINE	STA	Z	T	S	02 02 PCT	SIG TH	SVA
105	30	25/02/81	0920GMT	30 49.0N	116 12.2W	WEATH	
				30TTOM 19M	WIND 260 05 KT	WAVES	
				BAR 1012.0MB	DRY 15.4C WET 14.0C	CLOUDS	24.886 305.9
105	31	28/02/81	1228GMT	30 47.8N	116 15.4W	WEATH	
				30TTOM 47M	WIND 200 06 KT	WAVES	
				BAR 1015.0MB	DRY 14.2C WET 12.7C	CLOUDS	24.672 326.3
105	35	25/02/81	1240GMT	30 39.2N	116 33.1W	WEATH	
				30TTOM 1295M	WIND 310 06 KT	WAVES	
				BAR 1012.0MB	DRY 15.6C WET 13.0C	CLOUDS	24.564 336.6
105	40	25/02/81	1520GMT	30 29.4N	116 52.9W	WEATH 1	
				30TTOM 1526M	WIND 350 06 KT	WAVES 330 03 03	
				BAR 1013.0MB	DRY 14.8C WET 13.3C	CLOUDS 1/8 CU	24.552 337.7
107	31	28/02/81	0846GMT	30 29.5N	116 05.8W	WEATH	
				30TTOM 19M	WIND 210 07 KT	WAVES	
				BAR 1015.0MB	DRY 14.2C WET 12.7C	CLOUDS	24.709 322.8

RV DAVID STARR JORDAN		CALCOFI CRUISE #102		10 METER DATA									
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA					
107	32	28/02/81	0650GMT	30	27.5N	116	09.8W	WEATH 1 BOTTOM 233M WIND 300 06 KT WAVES BAR 1015.0MB DRY 15.0C WET 12.0C CLOUDS	10	14.81	33.349	24.893	305.8
107	35	28/02/81	0408GMT	30	21.9N	116	21.5W	WEATH 1 BOTTOM 1747M WIND 040 05 KT WAVES BAR 1014.0MB DRY 15.1C WET 12.0C CLOUDS	10	15.75	33.930	24.675	326.1
107	40	25/02/81	1625GMT	30	11.5N	116	41.8W	WEATH 1 BOTTOM 2823M WIND 270 06 KT WAVES 260 03 01 BAR 1014.0MB DRY 16.2C WET 13.6C CLOUDS 4/8 AC	10	16.34	33.550	24.556	337.3
107	40	28/02/81	0015GMT	30	11.4N	116	41.8W	WEATH 1 BOTTOM 2791M WIND 290 10 KT WAVES 300 02 03 BAR 1015.0MB DRY 16.0C WET 12.0C CLOUDS 1/5 BU	10	16.24	33.554	24.582	334.9
107	45	27/02/81	2026GMT	30	01.5N	117	01.7W	WEATH 1 BOTTOM 2043M WIND 270 10 KT WAVES 290 05 05 BAR 1016.0MB DRY 17.0C WET 13.3C CLOUDS 3/8 CU	10	16.29	33.563	24.578	335.3
107	50	27/02/81	1632GMT	29	51.5N	117	21.4W	WEATH 1 BOTTOM 650M WIND 340 07 KT WAVES 320 03 05 BAR 1016.0MB DRY 15.6C WET 12.2C CLOUDS 1/8 CU	10	16.71	33.616	24.522	340.7
107	55	27/02/81	1340GMT	29	41.4N	117	41.5W	WEATH 1 BOTTOM 1392M WIND 350 10 KT WAVES BAR 1015.0MB DRY 14.7C WET 11.2C CLOUDS	10	16.88	33.683	24.533	339.6
107	60	27/02/81	0950GMT	29	31.5N	118	01.3W	WEATH 1 BOTTOM 3546M WIND 340 10 KT WAVES BAR 1016.0MB DRY 14.5C WET 11.2C CLOUDS	10	16.86	33.650	24.512	341.5

RV NEW HORIZON		CALCOFI CRUISE 8102		10 METER DATA									
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA					
107	70	27/02/81	1425GMT	29	12.4N	118	42.6W	WEATH 1 BOTTOM 3730M WIND 350 10 KT WAVES 300 05 05 BAR 1017.3MB DRY 14.7C WET 10.8C CLOUDS 1/8 AS	10	16.84	33.707	24.561	336.9
107	80	27/02/81	0925GMT	28	51.8N	119	20.2W	WEATH 1 BOTTOM 3730M WIND 060 08 KT WAVES BAR 1017.0MB DRY 14.7C WET 11.0C CLOUDS	10	16.88	33.640	24.500	342.7

RV DAVID STARR JORDAN		CALCOFI CRUISE 8102		10 METER DATA									
LINE	STA	Z	T	S	02	02 PCT	SIG TH	SVA					
108	32	26/02/81	0127GMT	30	10.9N	115	59.2W	WEATH 1 BOTTOM 90M WIND 240 04 KT WAVES 280 05 07 BAR 1014.0MB DRY 16.8C WET 13.8C CLOUDS 3/8 AC	10		33.524		
108	35	25/02/81	2340GMT	30	04.9N	116	11.1W	WEATH 2 BOTTOM 1943M WIND 240 06 KT WAVES 270 04 06 BAR 1013.0MB DRY 17.6C WET 13.9C CLOUDS 8/8 AC	10	16.16	33.548	24.596	333.6
108	40	25/02/81	2059GMT	29	54.9N	116	31.0W	WEATH 1 BOTTOM 2690M WIND 320 08 KT WAVES 260 04 06 BAR 1014.0MB DRY 15.8C WET 14.2C CLOUDS 7/8 AC	10	16.08	33.538	24.606	332.6
108	60	27/02/81	0647GMT	29	14.9N	117	50.3W	WEATH 1 BOTTOM 4022M WIND 350 12 KT WAVES BAR 1017.0MB DRY 15.0C WET 12.0C CLOUDS	10	16.68	33.580	24.501	342.7
110	32.5	26/02/81	0420GMT	29	52.2N	115	49.9W	WEATH 1 BOTTOM 50M WIND 240 08 KT WAVES BAR 1015.0MB DRY 16.4C WET 14.0C CLOUDS	10	15.76	33.534	24.675	326.0
110	35	26/02/81	0627GMT	29	47.2N	115	59.8W	WEATH 1 BOTTOM 836M WIND 250 16 KT WAVES BAR 1016.0MB DRY 17.5C WET 14.8C CLOUDS	10	16.44	33.559	24.540	338.9
110	40	26/02/81	1124GMT	29	37.2N	116	19.7W	WEATH 1 BOTTOM 2462M WIND 330 12 KT WAVES BAR 1015.0MB DRY 15.1C WET 13.8C CLOUDS	10	16.42	33.557	24.543	338.6
110	45	26/02/81	1539GMT	29	27.2N	116	39.4W	WEATH 2 BOTTOM 613M WIND 360 15 KT WAVES 320 04 06 BAR 1017.0MB DRY 15.2C WET 12.9C CLOUDS 8/8 AC	10	16.87	33.641	24.503	342.4
110	50	26/02/81	1958GMT	29	17.2N	116	59.2W	WEATH 1 BOTTOM 3169M WIND 330 16 KT WAVES 360 03 06 BAR 1018.0MB DRY 16.0C WET 13.2C CLOUDS 7/8 AC	10	16.59	33.569	24.513	341.5
110	55	26/02/81	2226GMT	29	07.2N	117	18.9W	WEATH 2 BOTTOM 3738M WIND 020 12 KT WAVES 020 04 07 BAR 1016.0MB DRY 15.8C WET 12.0C CLOUDS 8/8 SC	10	16.76	33.602	24.499	342.8
110	60	27/02/81	0305GMT	28	57.3N	117	39.5W	WEATH 1 BOTTOM 3642M WIND 360 10 KT WAVES BAR 1016.0MB DRY 15.8C WET 12.8C CLOUDS	10	16.86	33.623	24.492	343.5

LINE	STA		Z	T	S	02	02	PCT	SIG	TH	SVA
110	70	27/02/81 2102GMT 29 37.0N 118 18.0W WEATH 1 BOTTOM 325M WIND 100 10 KT WAVES 300 03 06 BAR 1017.3MB DRY 17.0C WET 12.9C CLOUDS 1/2 AS	10	16.94	33.662				24.503	342.4	
110	80	28/02/81 0141GMT 28 17.9N 118 57.8W WEATH 1 BOTTOM 3825M WIND 110 10 KT WAVES 340 02 08 BAR 1014.6MB DRY 17.3C WET 13.0C CLOUDS 1/2 AS	10	16.89	33.637				24.496	343.1	
113	29	01/03/81 1012GMT 29 25.0N 115 14.2W WEATH BOTTOM 26M WIND 140 12 KT WAVES BAR 1015.2MB DRY 16.0C WET 14.4C CLOUDS	10	16.93	33.783				24.598	333.4	
113	30	01/03/81 0839GMT 29 22.9N 115 18.0W WEATH BOTTOM 46M WIND 270 10 KT WAVES BAR 1015.9MB DRY 16.7C WET 15.0C CLOUDS	10	16.82	33.788				24.629	330.6	
113	35	01/03/81 0535GMT 29 12.6N 115 37.7W WEATH BOTTOM 998M WIND 200 18 KT WAVES BAR 1016.6MB DRY 17.0C WET 14.8C CLOUDS	10	17.37	33.762				24.478	344.8	
113	40	01/03/81 0253GMT 29 03.9N 115 57.0W WEATH BOTTOM 1916M WIND 180 18 KT WAVES BAR 1014.6MB DRY 17.2C WET 14.5C CLOUDS	10	17.87	33.784				24.451	347.4	
113	45	01/03/81 0016GMT 28 53.2N 116 16.1W WEATH 1 BOTTOM 1479M WIND 190 18 KT WAVES BAR 1014.6MB DRY 18.9C WET 15.2C CLOUDS 7/8 CU	10	17.59	33.788				24.445	348.0	
113	50	28/02/81 2147GMT 28 43.0N 116 37.3W WEATH 2 BOTTOM 4493M WIND 170 15 KT WAVES BAR 1015.6MB DRY 16.9C WET 15.0C CLOUDS 8/8 SC	10	16.98	33.643				24.479	344.7	
113	60	28/02/81 1643GMT 28 22.8N 117 15.3W WEATH 1 BOTTOM 3653M WIND 170 16 KT WAVES BAR 1017.6MB DRY 18.0C WET 15.0C CLOUDS 1/8 SC	10	16.95	33.643				24.486	344.0	
113	70	28/02/81 1136GMT 28 03.0N 117 55.0W WEATH BOTTOM 3401M WIND 360 15 KT WAVES BAR 1015.9MB DRY 16.7C WET 14.2C CLOUDS	10	17.39	33.706				24.430	349.4	
113	80	28/02/81 0657GMT 27 43.1N 118 33.6W WEATH BOTTOM 3730M WIND 130 15 KT WAVES BAR 1016.6MB DRY 16.5C WET 14.0C CLOUDS	10	17.34	33.679				24.421	350.2	
117	25	01/03/81 1538GMT 28 57.5N 114 36.2W WEATH 1 BOTTOM 27M WIND 120 12 KT WAVES BAR 1015.6MB DRY 16.7C WET 13.8C CLOUDS 7/8 SC	10	16.68	33.750				24.631	330.2	
117	30	01/03/81 1817GMT 28 47.5N 114 55.9W WEATH 2 BOTTOM 110M WIND 160 10 KT WAVES 150 04 02 BAR 1015.9MB DRY 17.6C WET 16.0C CLOUDS 8/8 SC	10	16.50	33.671				24.613	332.0	
117	35	02/03/81 1445GMT 28 36.0N 115 16.2W WEATH 2 BOTTOM 232M WIND 230 12 KT WAVES 300 05 08 BAR 1013.2MB DRY 15.2C WET 14.4C CLOUDS 8/8 SC	10	16.62	33.643				24.563	336.7	
117	40	02/03/81 2030GMT 28 27.6N 115 35.1W WEATH 1 BOTTOM 998M WIND 220 18 KT WAVES 260 04 05 BAR 1011.9MB DRY 18.3C WET 15.5C CLOUDS 7/8 AC	10	17.64	33.804				24.445	348.0	
117	45	02/03/81 2339GMT 28 17.6N 115 54.6W WEATH 1 BOTTOM 1552M WIND 280 15 KT WAVES 210 04 06 BAR 1009.8MB DRY 19.0C WET 15.5C CLOUDS 4/8 CU	10	17.74	33.817				24.431	349.3	
117	50	03/03/81 0215GMT 28 06.4N 116 13.9W WEATH 1 BOTTOM 4686M WIND 280 16 KT WAVES 170 03 06 BAR 1009.8MB DRY 17.0C WET 14.9C CLOUDS 3/8 CU	10	17.64	33.797				24.440	348.5	
117	60	03/03/81 0718GMT 27 47.8N 116 53.1W WEATH BOTTOM 3881M WIND 260 28 KT WAVES BAR 1011.2MB DRY 16.1C WET 14.0C CLOUDS	10	18.09	33.904				24.412	351.1	
117	70	03/03/81 1229GMT 27 27.4N 117 31.8W WEATH BOTTOM 3881M WIND 280 32 KT WAVES BAR 1010.5MB DRY 16.3C WET 13.3C CLOUDS	10	18.22	34.018				24.468	345.8	
118	39	02/03/81 1751GMT 28 16.1N 115 22.6W WEATH 1 BOTTOM 166M WIND 210 10 KT WAVES BAR 1013.9MB DRY 16.7C WET 15.1C CLOUDS 6/8 CU	10	17.41	34.156				24.771	317.0	
119	33	02/03/81 1148GMT 28 17.7N 114 52.5W WEATH BOTTOM 113M WIND 340 14 KT WAVES BAR 1013.2MB DRY 15.8C WET 14.6C CLOUDS	10	16.88	33.651				24.509	341.9	
120	24	02/03/81 0020GMT 28 25.3N 114 10.8W WEATH 2 BOTTOM 42M WIND 240 12 KT WAVES BAR 1013.9MB DRY 19.5C WET 17.0C CLOUDS 8/8 SC	10	16.89	33.707				24.549	338.0	
120	25	02/03/81 0116GMT 28 23.1N 114 13.7W WEATH 2 BOTTOM 44M WIND 230 13 KT WAVES BAR 1013.9MB DRY 17.8C WET 16.7C CLOUDS 8/8 SC	10	17.06	33.771				24.558	337.2	
120	30	02/03/81 0453GMT 28 13.6N 114 33.9W WEATH BOTTOM 89M WIND 220 15 KT WAVES BAR 1014.6MB DRY 18.1C WET 17.0C CLOUDS	10	17.20	33.798				24.546	338.4	
120	35	02/03/81 0746GMT 28 03.2N 114 53.8W WEATH BOTTOM 91M WIND 260 12 KT WAVES BAR 1013.9MB DRY 17.5C WET 16.5C CLOUDS	10	17.50	33.833				24.501	342.6	
120	38.4	07/03/81 0343GMT 27 56.0N 115 06.9W WEATH BOTTOM 38M WIND 280 15 KT WAVES BAR 1018.6MB DRY 16.7C WET 13.9C CLOUDS	10	17.06	33.788				24.571	335.9	

LINE	STA		2	1	7	102	07	PCT	SDS	TH	SVA
120	49	04/03/81 0722GMT 27 43.4N 115 32.7W WEATH BOTTOM 1571M WIND 330 24 KT WAVES BAR 1015.9MB DRY 16.5C WET 13.2C CLOUDS	10	19.30	34.050						24.452 347.3
120	50	04/03/81 0358GMT 27 33.7N 115 54.2W WEATH BOTTOM 4110M WIND 330 20 KT WAVES BAR 1015.2MB DRY 16.7C WET 14.2C CLOUDS	10	17.33	33.734						24.466 346.0
120	60	03/03/81 2244GMT 27 13.0N 116 30.7W WEATH 1 BOTTOM 3635M WIND 330 21 KT WAVES 290 10 04 BAR 1013.2MB DRY 15.1C WET 14.8C CLOUDS 4/5 CU	10	17.66	33.845						24.477 345.4
120	70	03/03/81 1720GMT 26 54.5N 117 09.7W WEATH 1 BOTTOM 4034M WIND 310 27 KT WAVES 280 17 04 BAR 1014.6MB DRY 17.3C WET 14.0C CLOUDS 4/5 CU	10		33.909						
123	36	04/03/81 1235GMT 27 27.3N 114 36.9W WEATH BOTTOM 38M WIND 190 05 KT WAVES BAR 1015.9MB DRY 15.1C WET 12.4C CLOUDS	10	17.46	33.915						24.572 345.9
123	37	04/03/81 1415GMT 27 26.8N 114 39.9W WEATH 1 BOTTOM 69M WIND 360 06 KT WAVES 300 06 03 BAR 1016.6MB DRY 16.2C WET 13.2C CLOUDS 7/8 SC	10	18.46	34.035						24.621 340.7
123	42	04/03/81 1700GMT 27 14.8N 114 59.3W WEATH 1 BOTTOM 1479M WIND 320 15 KT WAVES 300 07 04 BAR 1017.3MB DRY 17.1C WET 14.9C CLOUDS 5/8 SC	10	17.57	33.921						24.557 347.1
123	45	04/03/81 1933GMT 27 09.3N 115 10.8W WEATH 1 BOTTOM 4110M WIND 300 01 KT WAVES 300 07 05 BAR 1015.6MB DRY 17.9C WET 15.0C CLOUDS 3/8 SC	10	17.37	33.849						24.564 338.5
123	50	04/03/81 2230GMT 26 58.8N 115 30.5W WEATH 1 BOTTOM 3730M WIND 290 10 KT WAVES 200 06 04 BAR 1014.2MB DRY 18.0C WET 13.8C CLOUDS 3/8 CU	10	18.71	34.041						24.363 355.8
123	60	05/03/81 0325GMT 26 38.6N 116 08.2W WEATH BOTTOM 3816M WIND 220 15 KT WAVES BAR 1015.6MB DRY 17.0C WET 13.9C CLOUDS	10	18.48	34.002						24.391 353.2
127	33	05/03/81 2235GMT 26 57.7N 114 02.3W WEATH 1 BOTTOM 62M WIND 260 22 KT WAVES 290 10 06 BAR 1013.5MB DRY 17.0C WET 12.9C CLOUDS 6/8 SC	10	17.97	33.995						24.511 341.7
127	35	05/03/81 2110GMT 26 53.7N 114 10.1W WEATH 1 BOTTOM 93M WIND 260 22 KT WAVES 290 10 06 BAR 1013.9MB DRY 17.2C WET 13.0C CLOUDS 7/8 SC	10	18.12	33.992						24.472 345.4
127	40	05/03/81 1840GMT 26 43.5N 114 29.5W WEATH 1 BOTTOM 3163M WIND 300 35 KT WAVES 280 10 04 BAR 1015.9MB DRY WET CLOUDS 4/8 CU	10	18.50	34.043						24.417 350.7
127	45	05/03/81 1632GMT 26 33.5N 114 48.0W WEATH 2 BOTTOM 5353M WIND 280 38 KT WAVES 280 10 04 BAR 1015.6MB DRY 16.3C WET 13.8C CLOUDS 8/8 CU	10	18.18	33.997						24.461 346.4
127	50	05/03/81 1405GMT 26 25.1N 115 07.6W WEATH 1 BOTTOM 2315M WIND 280 30 KT WAVES 280 10 04 BAR 1013.9MB DRY 16.3C WET 13.1C CLOUDS 5/8 CU	10	18.50	33.982						24.371 355.1
127	60	05/03/81 0845GMT 26 04.0N 115 45.9W WEATH BOTTOM 3730M WIND 230 22 KT WAVES BAR 1014.6MB DRY 17.7C WET 14.1C CLOUDS	10	19.68							
130	28	06/03/81 0431GMT 26 33.4N 113 21.9W WEATH BOTTOM 57M WIND 260 10 KT WAVES BAR 1015.2MB DRY 17.5C WET 12.8C CLOUDS	10	18.43	34.106						24.483 344.4
130	30	06/03/81 0600GMT 26 29.3N 113 29.5W WEATH BOTTOM 79M WIND 260 15 KT WAVES BAR 1015.9MB DRY 15.9C WET 11.0C CLOUDS	10	18.57	34.058						24.411 351.2
130	35	06/03/81 1018GMT 26 20.1N 113 49.0W WEATH 6 BOTTOM 315M WIND 250 18 KT WAVES BAR 1014.2MB DRY 14.6C WET 13.6C CLOUDS	10	18.02	33.974						24.483 344.4
130	39	06/03/81 1327GMT 26 07.2N 114 00.5W WEATH BOTTOM 1479M WIND 270 27 KT WAVES BAR 1014.2MB DRY 16.0C WET 12.6C CLOUDS	10	18.54	34.039						24.404 351.9

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