

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7505
7 May - 6 June 1975

CalCOFI Cruise 7506
8 June - 12 June 1975

CalCOFI Cruise 7507
23 June - 18 July 1975

CalCOFI Cruise 7509
13 September - 22 September 1975

CalCOFI Cruise 7510
2 October - 16 November 1975

CalCOFI Cruise 7512
8 December - 14 December 1975

SIO Reference 84-13
15 June 1984

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Sponsored by
Marine Research Committee

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15 June 1984

Approved for distribution:


W. A. Nierenberg, Director

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INTRODUCTION

The data in this report were collected during Cruises 7505*, 7506, 7507, 7509, 7510, and 7512 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV *David Starr Jordan* of the National Marine Fisheries Service and the RV *Alexander Agassiz* of the Scripps Institution of Oceanography. Cruises 7505, 7507, and 7510 extended over large parts of the CalCOFI grid, while Cruises 7506, 7509, and 7512 concentrated on the Los Angeles Bight area. The report preceding this one in the series was SIO Ref. 84-10 which included data for 1974 and 1975.

The data were collected and processed by personnel of the Data Collection and Processing Group (DCPG**), Marine Life Research Group (MLRG), and the Southwest Fisheries Center, National Marine Fisheries Service (NMFS).

STANDARD PROCEDURES

In situ Salinity/Temperature/Depth Recorder (STD) Data

Plessey Environmental Systems Model 9040 STDs were used for most stations by both the *Jordan* and the *Agassiz*. Temperature and salinity offset corrections were applied to the STD data based upon Nansen bottle data comparisons. At most stations, the maximum sampling depth was 1000 meters, bottom depth permitting. An 18-bottle Nansen cast replaced the STD cast on the few stations where the STD failed.

Hydrographic Cast Data

The hydrographic casts consisted of 18 or fewer Nansen bottles lowered to a maximum sampling depth of 1000 meters, bottom depth permitting. Usually there was only one Nansen cast per CalCOFI station line. Temperature, salinity, and oxygen were determined for all depths sampled.

On STD lowerings, a Nansen bottle was usually placed on the wire a few meters above the STD and another bottle was lowered to a depth of 10 meters. Temperature and salinity were determined from both bottles on most stations; dissolved oxygen was occasionally determined from the 10-meter bottle. A 10-meter bottle was also taken on most net-tow stations.

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

Salinity samples were analyzed at sea using inductive-type salinometers. The salinity values are reported to three decimal places, provided accepted standards were met. If there was doubt concerning the accuracy of the analytical results, the salinities are reported to two decimal points. All STD salinities are tabulated to two decimal places.

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

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

TABULATED DATA

The time reported is Greenwich Mean Time (GMT). For STD lowerings it is the "start down" time and for Nansen bottle casts it is the time of messenger release.

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

** Now the Physical and Chemical Oceanographic Data Facility (PACODF).

Bottom depths, determined acoustically, have been corrected using Matthews (1939) tables and are reported in meters. Weather and dominant waves are coded by the National Oceanographic Data Center (NODC) method.

Data for all the cruises included in this report were obtained by Nansen bottle and STD casts and are presented in three forms:

1) Data from the sample bottle casts are tabulated with the observed levels of depth on the left of a page, and standard depth values of temperature, salinity and oxygen interpolated from those observations are on the right of a page. Additional computed values are also presented.

2) Data from the STD 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. Additional computed values are also presented.

3) Ten-meter temperature, salinity and occasionally oxygen data from net tow 10-meter bottles and STD 10-meter check bottles appear as separate sections.

The same parameters have been tabulated in this report as in previous reports. The decimal has been omitted from the CalCOFI station number so station 93.30 appears in the tabulated data as 93030. The CalCOFI station designations have been in use for over thirty years. The first part specifies a line normal to the general trend of the coast line (CalCOFI line). The second part specifies a station position relative to the coast on the CalCOFI line. On some closely-spaced special inshore stations, an additional superscript number may appear after the line number or station number to indicate a finer resolution of the non-standard station location.

The column headings are to be interpreted as follows:

Z	Depth	Meters
T	Temperature	° C
S	Salinity	‰
O2	Dissolved Oxygen	ml/L
DT	δ_T Thermosteric anomaly	cl/ton
SIGT	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ where $\rho_{s,t,0}$ is the	g/L
or	density the parcel of sea water would have	
SIGMA T	if moved isothermally to the sea surface.	
DD	Geopotential anomaly, referred to the sea surface.	dynamic meters

FOOTNOTES

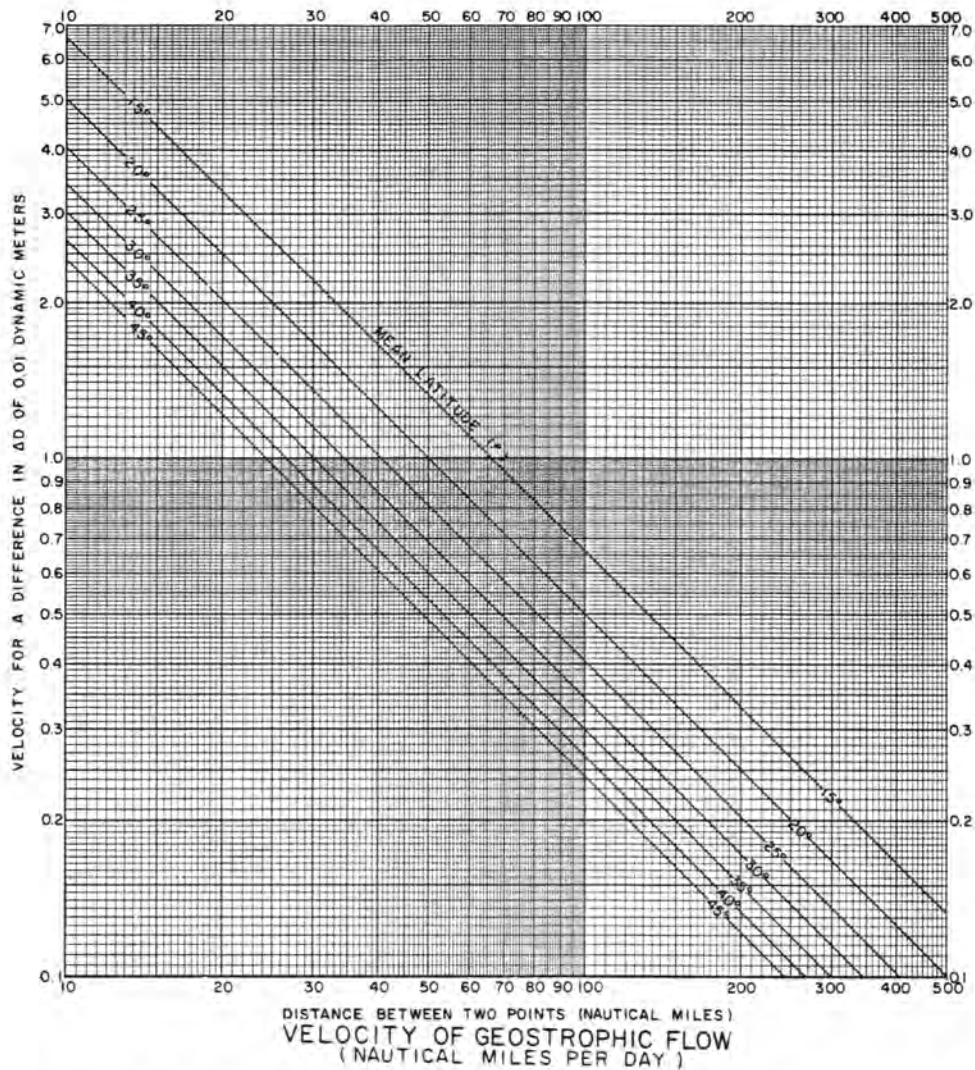
In addition to explicit footnotes, the following notations have been used.

P: Nansen bottle posttripped.

U: Uncertain value - not used in interpolation.

LITERATURE CITED

- Anderson, G. C., compiler, 1971. "Oxygen Analysis," Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.
- Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10: 141-143.
- Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.
- 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.
- Plessey Environmental Systems, 1974. Instruction Manual, *In situ* Salinity/Temperature/Depth Monitoring and Recording System, Model 9040.



cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> 0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	
	<i>NM/DAY</i> 4.66	0.47	0.93	1.40	1.86	2.33	2.80	3.26	3.73	4.20
10	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37
	9.32	9.79	10.26	10.72	11.19	11.66	12.12	12.59	13.05	13.52
20	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.52	0.54	0.56
	13.99	14.45	14.92	15.38	15.85	16.32	16.78	17.25	17.72	18.18
30	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76
	18.65	19.11	19.58	20.05	20.51	20.98	21.45	21.91	22.38	22.84
40	0.78	0.80	0.82	0.84	0.85	0.87	0.89	0.91	0.93	0.95
	23.31	23.78	24.24	24.71	25.17	25.64	26.11	26.57	27.04	27.51
50	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
	1.17	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34
60	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.53
	27.98	28.44	28.90	29.37	29.84	30.30	30.77	31.24	31.70	32.17
70	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.69	1.71	1.73
	32.63	33.10	33.57	34.03	34.50	34.96	35.43	35.90	36.36	36.83
80	1.75	1.77	1.79	1.81	1.83	1.85	1.86	1.88	1.90	1.92
	37.30	37.76	38.23	38.69	39.16	39.63	40.09	40.56	41.03	41.49
90	1.94	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12
	41.96	42.42	42.89	43.36	43.82	44.29	44.76	45.22	45.69	46.15
100	4.662	4.709	4.755	4.802	4.848	4.895	4.942	4.988	5.035	5.082

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

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

FIGURES

Cruise 7505

1. CalCOFI Cruise 7505, station positions. Inset: Cruise 7506 station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500 d-bar).
3. Horizontal distribution of dynamic height anomaly (200 over 500 d-bar).
4. Horizontal distribution of temperature at 10 meters
5. Horizontal distribution of salinity at 10 meters.
6. Horizontal distribution of thermosteric anomaly at 10 meters.
7. Horizontal distribution of temperature at 200 meters.
8. Horizontal distribution of salinity at 200 meters.
9. Horizontal distribution of thermosteric anomaly at 200 meters.

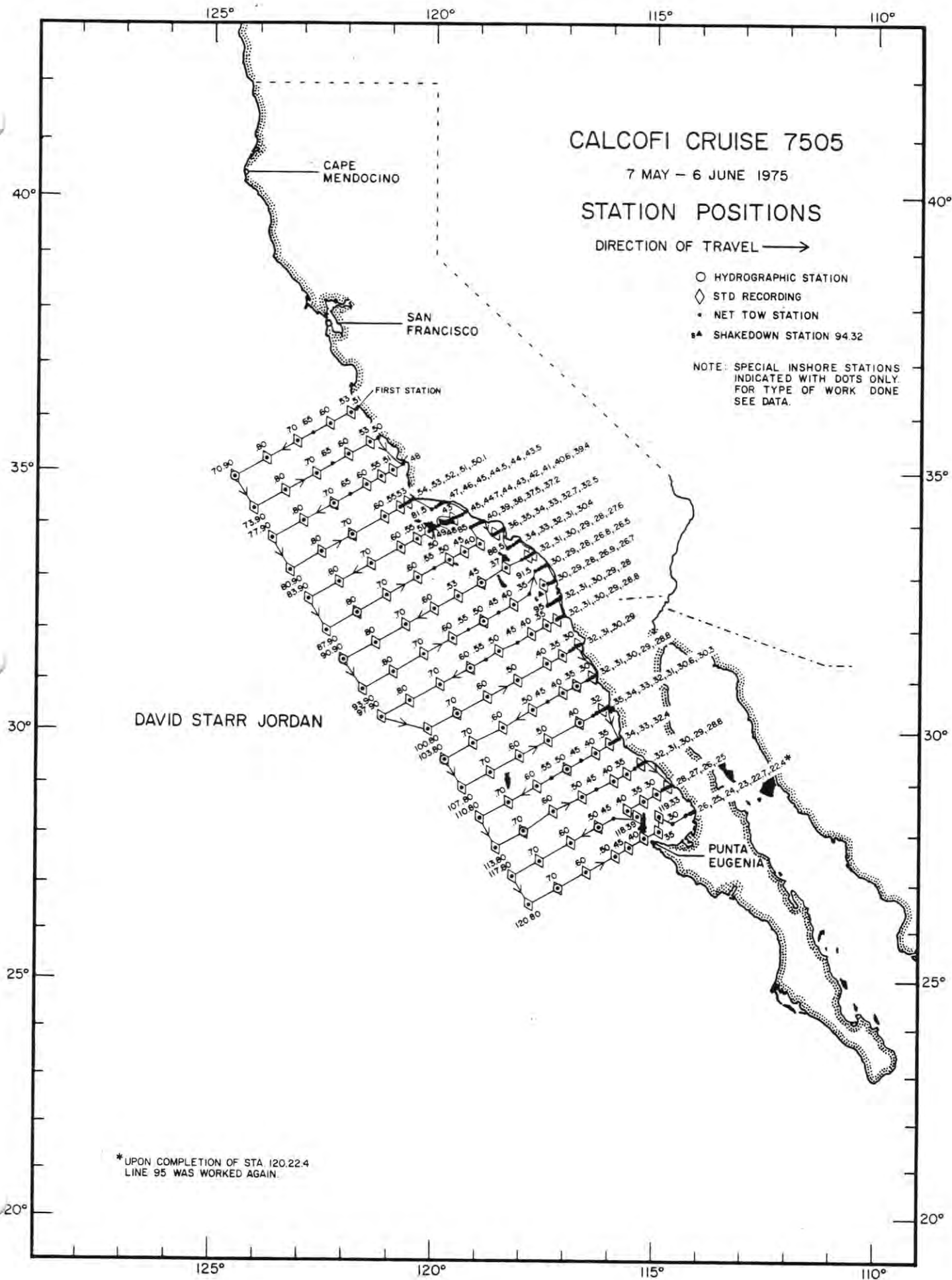


FIGURE 1

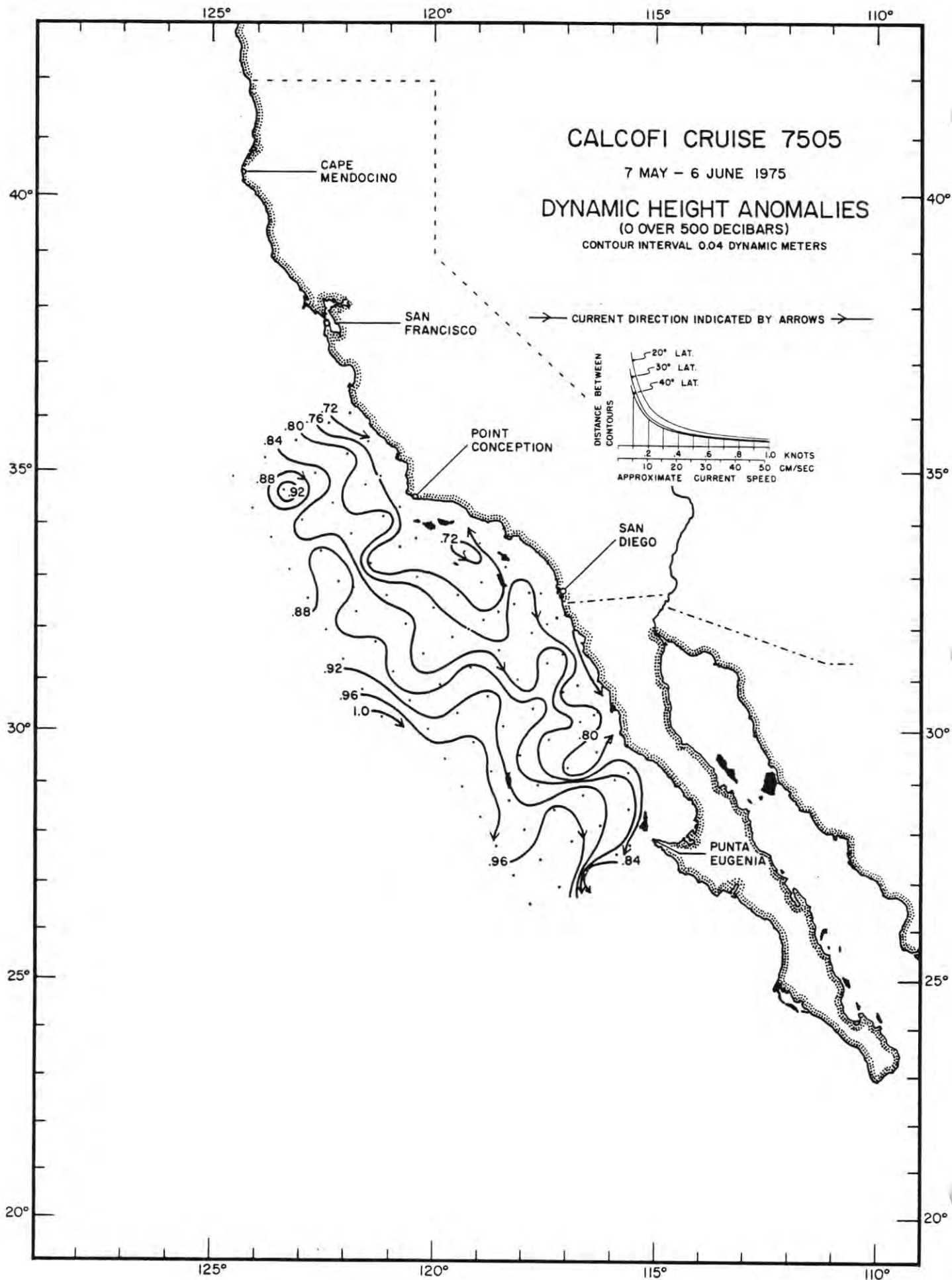


FIGURE 2

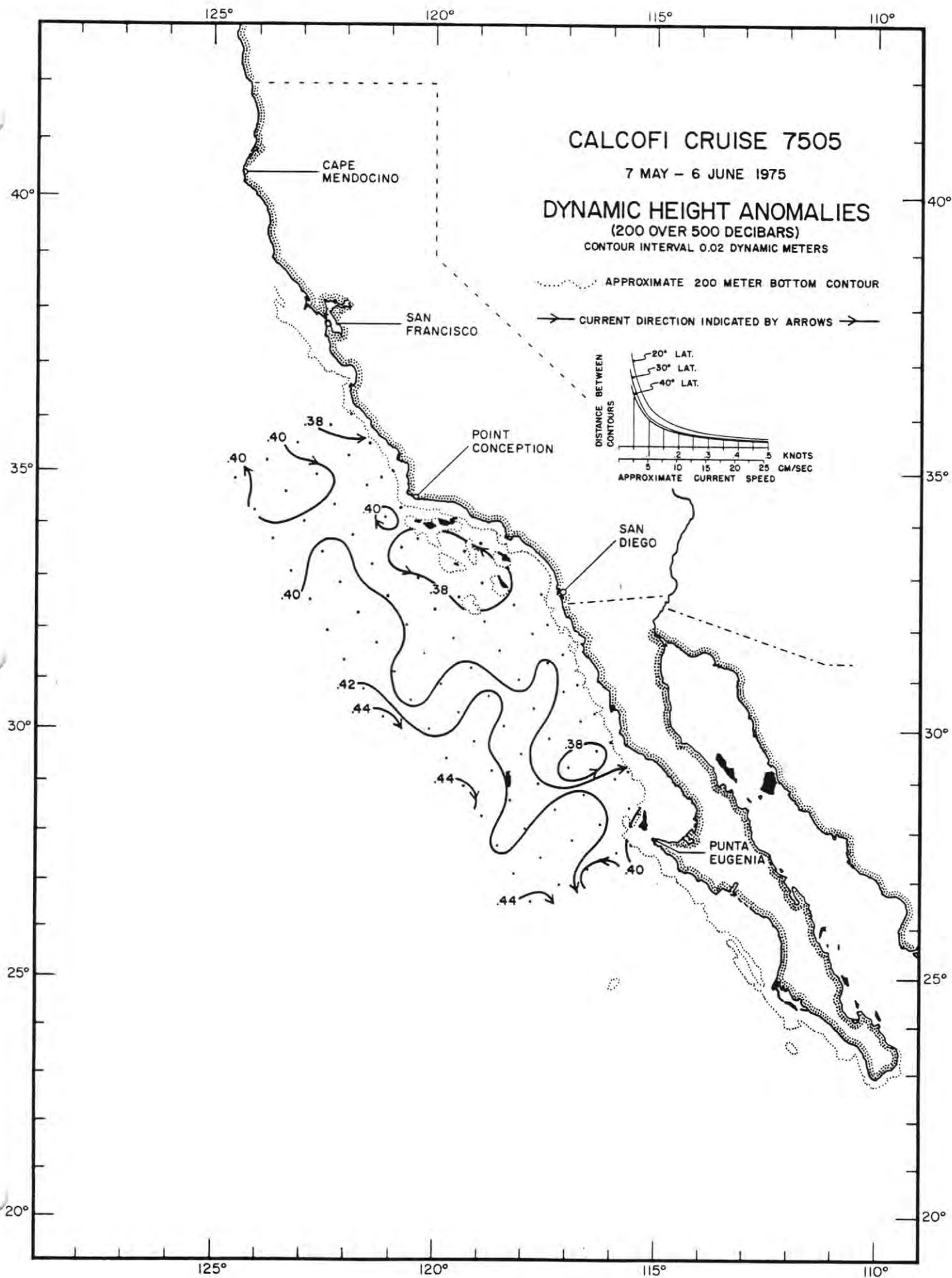


FIGURE 3

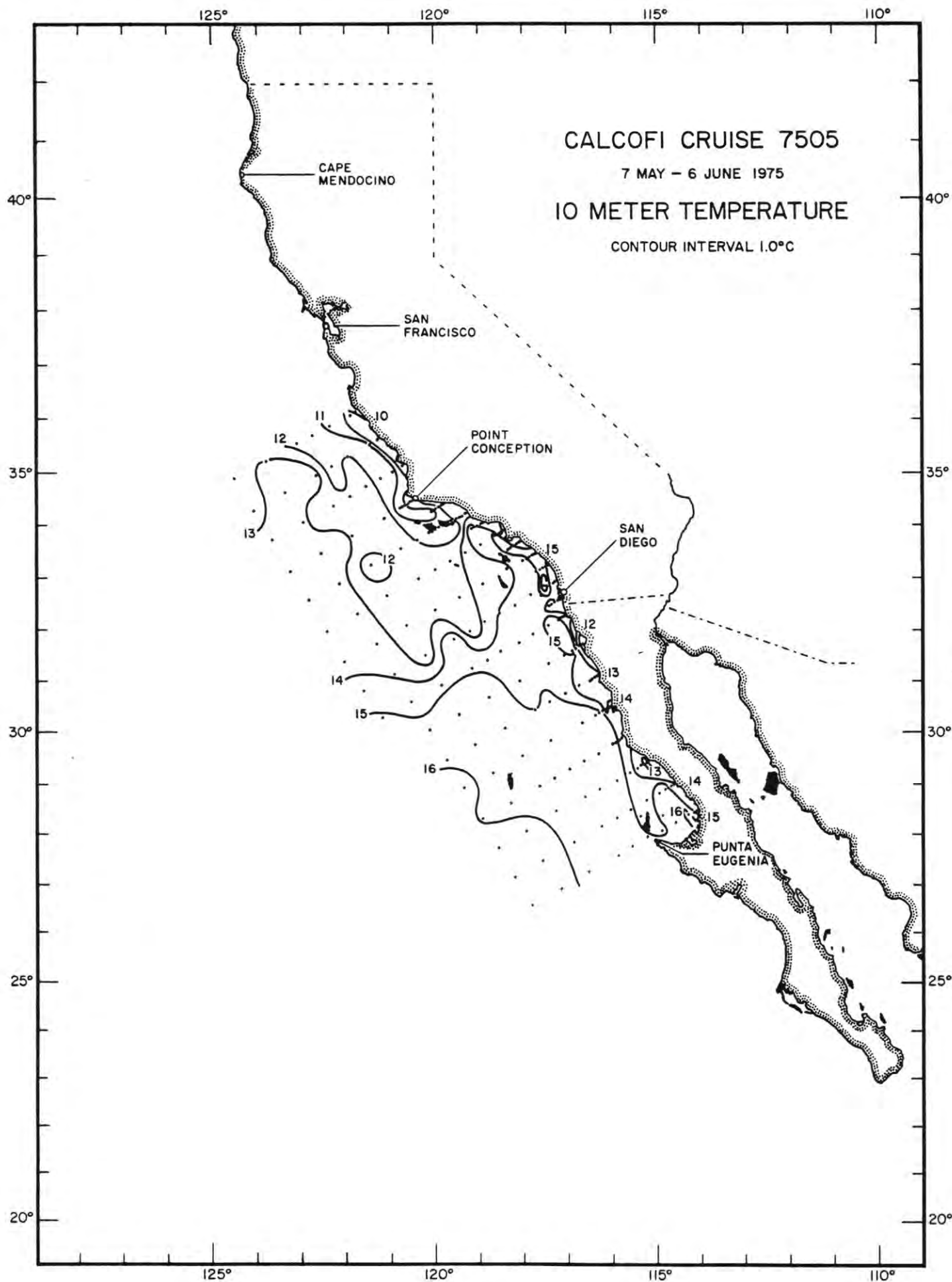


FIGURE 4

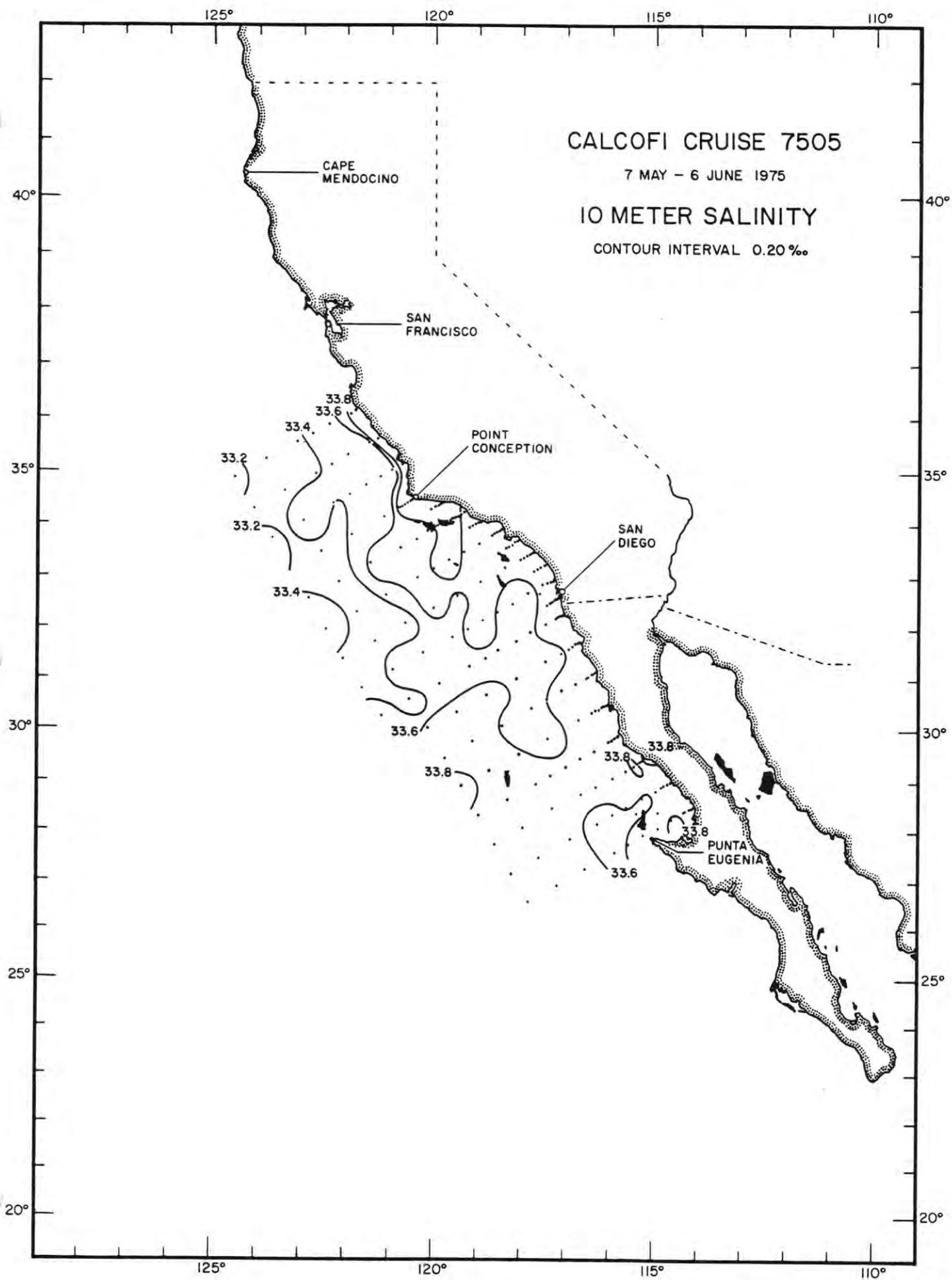


FIGURE 5

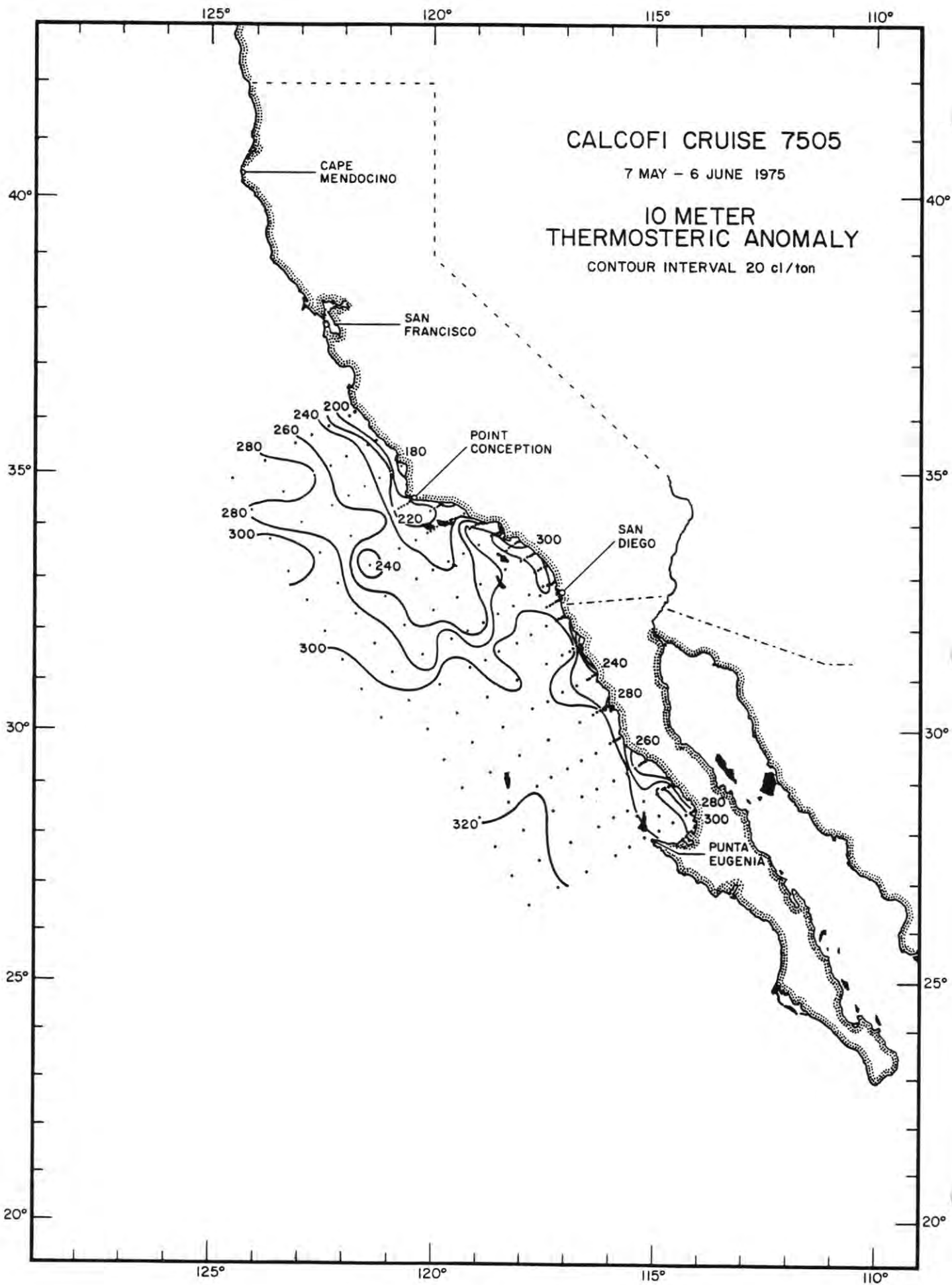


FIGURE 6

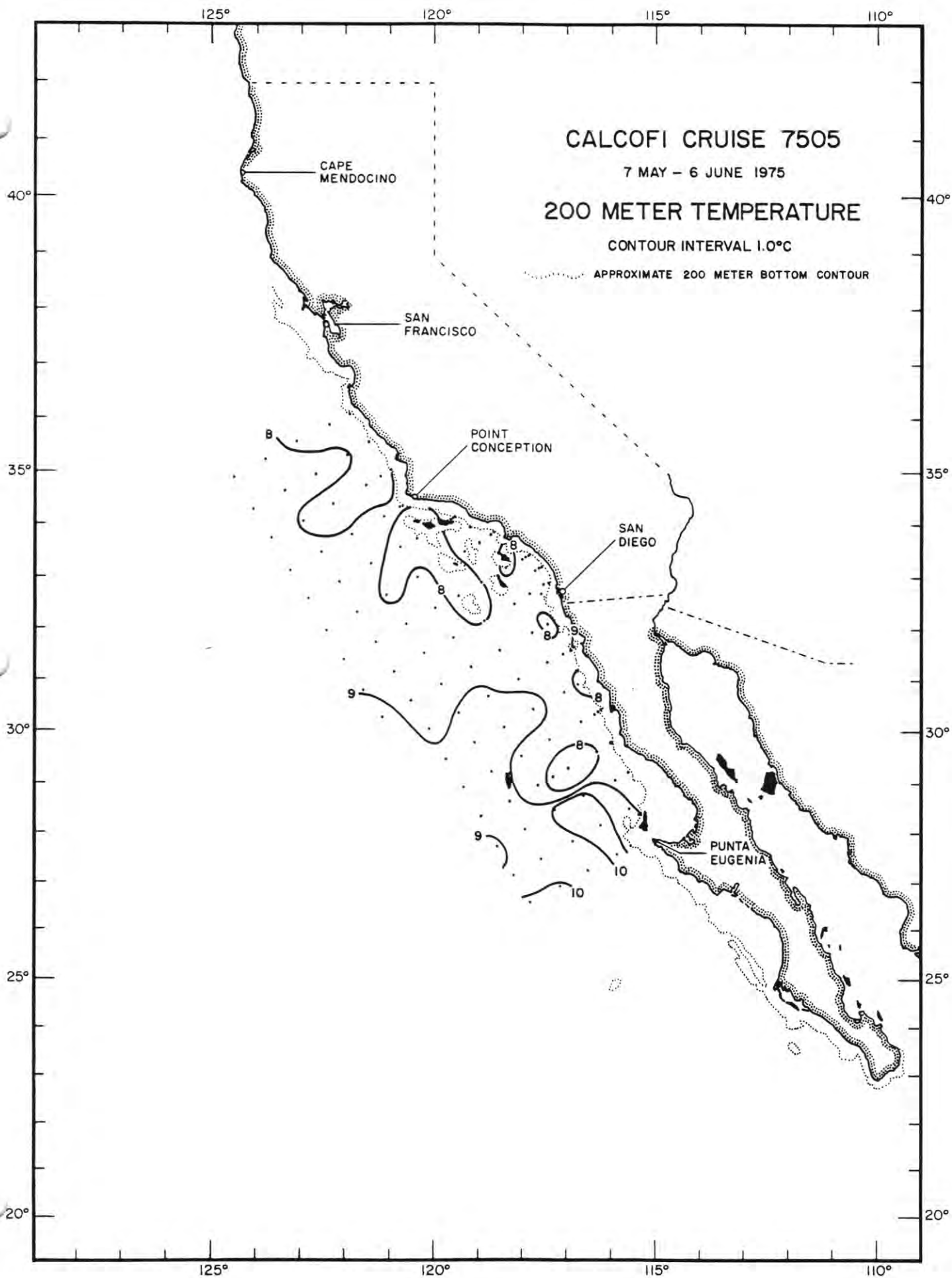


FIGURE 7

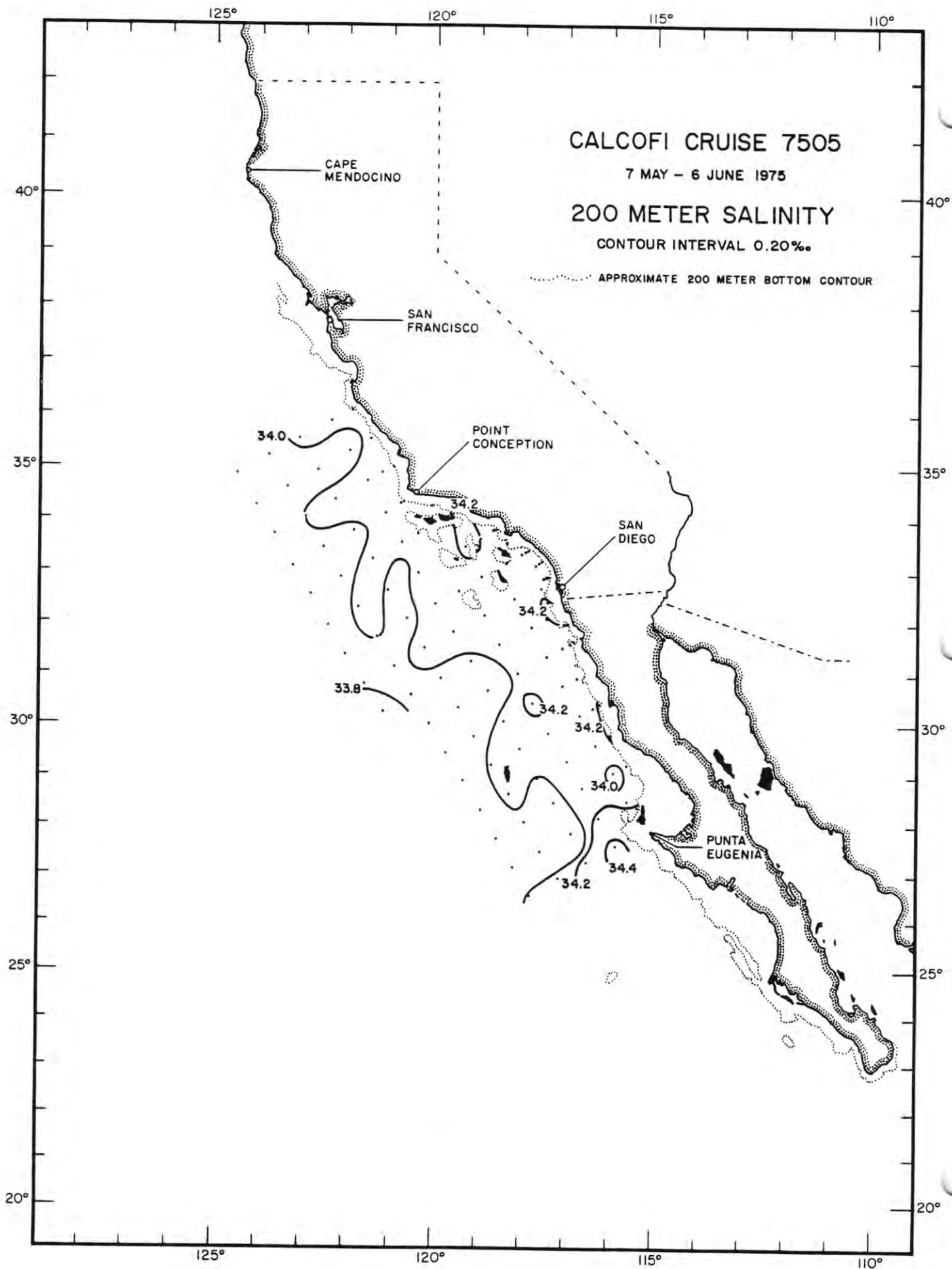


FIGURE 8

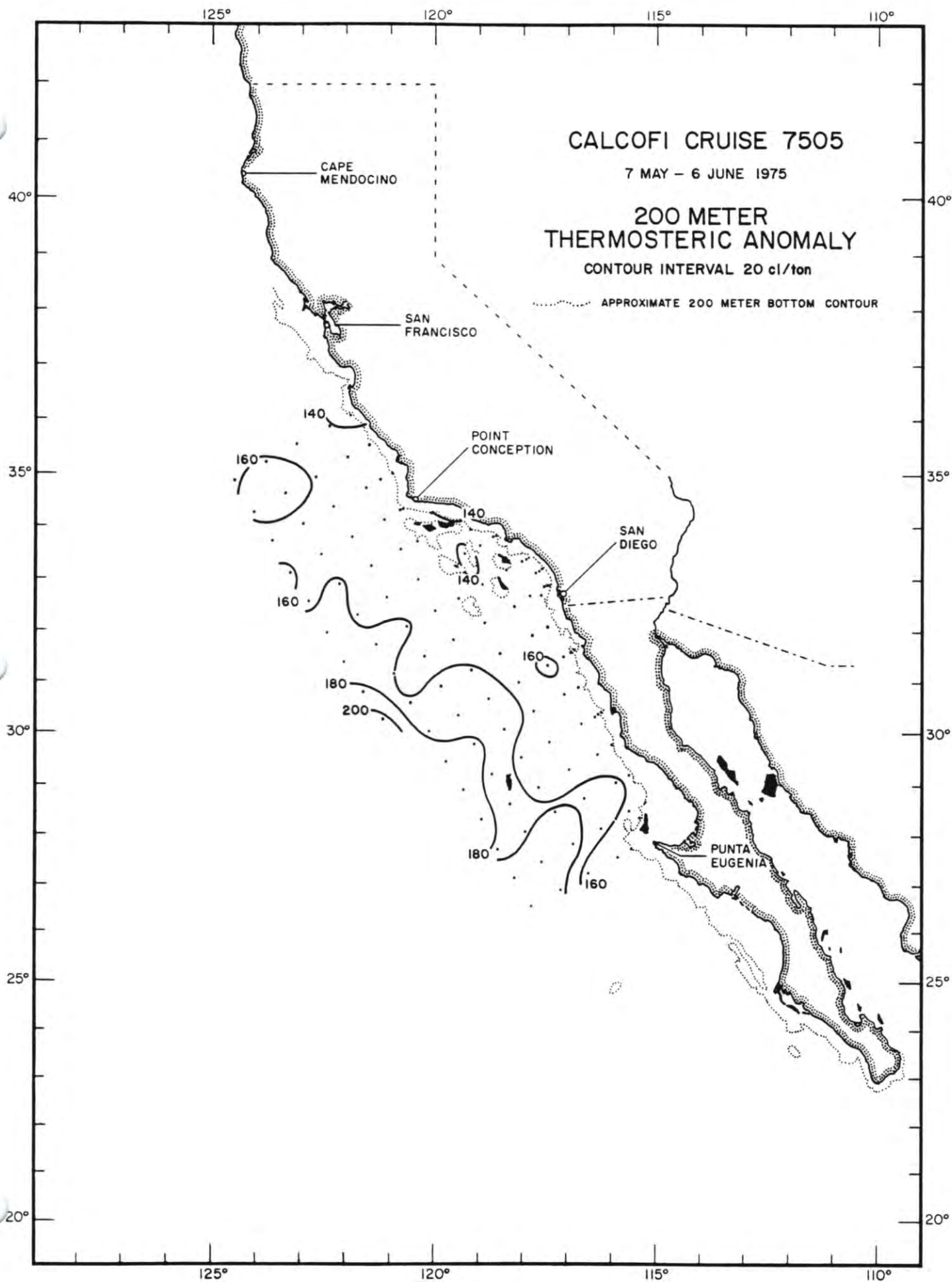


FIGURE 9

PERSONNEL

Cruise 7505

SHIP'S CAPTAIN

Forster, Charles, W., RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV *David Starr Jordan*

Counts, Robert C. (in charge)	Fishery Biologist, NMFS
Ahern, Stephen	Biological Technician, NMFS
Butler, John L.	Fishery Biologist, Smithsonian
Brennen, Robert	Marine Technician, SIO
Caloca, Carlos	Student, ESCM
Davies, Edward	Oceanographer, NUC
Mendoza, Oscar	Student, ESCM
Meoyer, Jack	Biological Technician, NMFS
Myslabodski, D.	Student, ESCM
Paredo, Izadore	Student, ESCM
Patla, Susan M.	Marine Technician, SIO
Ross, Nelson	Oceanographer, NODC
Theilacker, Gail H.	Fishery Biologist, NMFS
Vent, Robert	Physicist, NUC
Weiler, Susan	Student, SIO

70053 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
36 06.5N	121 54.0W	05/10/75	0236 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1073M	340	13KT	2	340 4 9	
Z	T	S	SIGMA T	DT	DD
0	5.95	33.87	26.099	192.1	0.000
10	9.82	33.87	26.121	190.1	0.019
20	5.28	33.88	26.218	180.9	0.037
30	9.02	33.92	26.291	173.9	0.055
40	8.84	33.97	26.358	167.5	0.072
50	8.78	33.98	26.375	165.9	0.089
75	8.67	33.98	26.392	164.3	0.130
100	8.65	34.00	26.411	162.5	0.172
125	8.04	33.97	26.473	156.6	0.212
150	7.86	33.99	26.523	151.9	0.251
175	7.35	34.00	26.604	144.2	0.289
200	7.06	34.02	26.661	138.8	0.325
225	7.19	34.11	26.713	133.8	0.360
250	6.91	34.11	26.752	130.2	0.394
275	6.69	34.12	26.789	126.6	0.427
300	6.70	34.18	26.835	122.2	0.459
350	6.37	34.18	26.879	118.1	0.522
400	6.26	34.23	26.933	113.0	0.582
450	6.03	34.25	26.978	108.7	0.640
500	5.83	34.26	27.011	105.6	0.697
550	5.55	34.29	27.069	100.1	0.752
600	5.32	34.33	27.129	94.4	0.804
700	4.88	34.38	27.219	85.8	0.902
800	4.45	34.41	27.291	79.0	0.992
900	4.25	34.44	27.336	74.7	1.077
950	4.03	34.45	27.367	71.8	1.118

CALCOFI CRUISE 7505 70060

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 53.0N	122 23.0W	05/10/75	0604 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3163M	320	9KT	2	320 2 8	
Z	T	S	SIGMA T	DT	DD
0	10.97	33.42	25.573	242.2	0.000
10	10.88	33.43	25.596	239.9	0.024
20	10.22	33.50	25.765	223.8	0.047
30	10.17	33.58	25.836	217.1	0.069
40	10.03	33.62	25.891	211.9	0.090
50	9.78	33.66	25.964	205.0	0.111
75	8.88	33.87	26.274	175.5	0.159
100	8.55	33.95	26.388	164.7	0.202
125	8.28	33.97	26.444	159.3	0.243
150	7.97	34.05	26.554	149.0	0.282
175	7.87	34.11	26.615	143.1	0.320
200	7.77	34.13	26.646	140.2	0.356
225	7.54	34.13	26.679	137.1	0.391
250	7.41	34.15	26.713	133.8	0.426
275	7.17	34.16	26.755	129.9	0.460
300	6.91	34.17	26.799	125.7	0.493
350	6.68	34.20	26.854	120.5	0.557
400	6.31	34.22	26.918	114.4	0.619
450	6.00	34.25	26.982	108.3	0.677
500	5.62	34.26	27.037	103.1	0.733
550	5.45	34.31	27.097	97.4	0.787
600	5.28	34.33	27.133	94.0	0.838
700	4.93	34.37	27.206	87.1	0.936
800	4.60	34.40	27.267	81.3	1.028
900	4.16	34.42	27.330	75.3	1.115
1000	3.85	34.46	27.394	69.3	1.196

70070 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 33.0N	123 06.0W	05/10/75	1201 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3918M	280	6KT	1		
Z	T	S	SIGMA T	DT	DD
0	17.08	33.35	25.315	266.7	0.000
10	17.05	33.35	25.320	266.2	0.026
20	11.87	33.36	25.362	262.2	0.053
30	11.86	33.37	25.371	261.3	0.079
40	11.40	33.37	25.456	253.2	0.105
50	11.02	33.38	25.533	246.0	0.130
75	10.17	33.45	25.735	226.8	0.189
100	9.31	33.65	26.033	198.4	0.243
125	8.78	33.82	26.250	177.8	0.290
150	8.38	33.91	26.383	165.2	0.334
175	8.08	33.97	26.474	156.5	0.375
200	7.80	34.01	26.547	149.6	0.414
225	7.53	34.03	26.602	144.4	0.451
250	7.51	34.09	26.652	139.6	0.488
275	7.23	34.10	26.700	135.1	0.523
300	7.01	34.12	26.746	130.7	0.558
350	6.74	34.16	26.814	124.2	0.624
400	6.43	34.19	26.879	118.1	0.687
450	6.16	34.22	26.938	112.5	0.748
500	5.78	34.23	26.994	107.2	0.806
550	5.42	34.25	27.053	101.6	0.861
600	5.29	34.29	27.100	97.1	0.915
700	4.84	34.35	27.200	87.6	1.014
800	4.42	34.38	27.271	81.0	1.106
900	4.20	34.43	27.334	75.0	1.193
1000	3.83	34.46	27.396	69.1	1.273

CALCOFI CRUISE 7505 70080

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 13.0N	123 48.0W	05/10/75	1640 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4116M	240	11KT	2	270 8 13	
Z	T	S	SIGMA T	DT	DD
0	13.16	33.41	25.151	282.3	0.000
10	12.88	33.40	25.199	277.7	0.028
20	12.76	33.39	25.215	276.2	0.055
30	12.55	33.38	25.248	273.1	0.083
40	12.25	33.37	25.298	268.3	0.110
50	12.02	33.36	25.334	264.9	0.137
75	11.48	33.40	25.465	252.4	0.202
100	10.57	33.49	25.697	230.3	0.263
125	9.49	33.65	26.004	201.2	0.317
150	8.96	33.78	26.191	183.4	0.366
175	8.67	33.93	26.353	168.0	0.411
200	8.32	33.95	26.423	161.4	0.453
225	8.00	33.99	26.502	153.9	0.493
250	7.54	33.97	26.554	149.0	0.532
275	7.28	33.98	26.598	144.7	0.570
300	7.00	34.01	26.661	138.8	0.606
350	6.48	34.04	26.754	129.9	0.676
400	5.93	34.07	26.849	121.0	0.741
450	5.79	34.14	26.921	114.1	0.802
500	5.57	34.18	26.980	108.5	0.861
550	5.30	34.22	27.044	102.5	0.917
600	5.02	34.25	27.100	97.1	0.970
700	4.48	34.29	27.193	88.4	1.070
800	4.28	34.36	27.270	81.0	1.162
900	3.93	34.40	27.338	74.6	1.248
1000	3.64	34.44	27.399	68.8	1.327

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 53.0N		124 30.0W		5/10/75		2309 GMT		4498M		210		14KT		1		270 8 13	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	13.49	33.140	6.19					308.4	0	13.49	33.140	6.19	24.877	308.4	0.000		
10	12.83	33.146	6.31					295.5	10	12.83	33.146	6.31	25.013	295.5	0.030		
29	12.69	33.142	6.28					293.2	20	12.75	33.145	6.29	25.025	294.3	0.059		
58	11.85	33.185	6.32					274.8	30	12.67	33.143	6.28	25.040	292.8	0.089		
77	11.05	33.302	5.96					252.3	50	12.14	33.163	6.30	25.157	281.7	0.146		
92	10.79	33.392	5.67					241.2	75	11.12	33.289	6.00	25.442	254.6	0.214		
106	10.24	33.450	5.12					227.9	100	10.48	33.425	5.36	25.660	233.9	0.275		
135	9.37	33.724	4.45					193.8	125	9.63	33.626	4.68	25.960	205.4	0.331		
159	8.79	33.865	3.41					174.6	150	8.99	33.821	3.76	26.217	180.9	0.380		
187	8.30	33.947	3.43					161.3	200	8.05	33.957	3.40	26.467	157.2	0.466		
222	7.67	33.959	3.35					151.6	250	7.26	33.973	2.93	26.594	145.1	0.543		
293	6.77	33.996	2.15					136.9	300	6.69	33.999	2.05	26.693	135.8	0.616		
393	5.98	34.056	1.13					122.6	400	5.95	34.066	1.07	26.843	121.5	0.749		
498	5.60	34.203	0.46					107.1	500	5.58	34.205	0.45	26.997	106.9	0.869		
602	5.01	34.262	0.33					96.1	600	5.02	34.261	0.33	27.109	96.3	0.977		
736	4.56	34.366	0.23					83.5	700	4.66	34.339	0.24	27.212	86.6	1.076		
887	4.09	34.422	0.40					74.5	800	4.36	34.395	0.28	27.289	79.3	1.166		
1048	3.54	34.461	0.55					66.3	1000	3.70	34.451	0.50	27.401	68.6	1.330		

70090		RV DAVID STARR JORDAN		CALCOFI CRUISE 7505		73053					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME					
34 53.0N		124 30.0W		05/10/75		2200 GMT					
BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES			
4498M		210		14KT		1		270 8 13			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	12.41	33.14	24.893	306.9	0.000	0	11.06	33.57	25.673	232.6	0.000
10	12.78	33.14	25.018	295.0	0.030	10	11.04	33.57	25.676	232.3	0.023
20	12.74	33.14	25.026	294.2	0.059	20	10.90	33.57	25.701	230.0	0.046
30	12.67	33.14	25.039	292.9	0.089	30	10.40	33.57	25.789	221.6	0.069
40	12.63	33.14	25.047	292.2	0.118	40	9.60	33.56	25.916	209.5	0.090
50	11.87	33.16	25.207	277.0	0.146	50	9.39	33.62	25.997	201.8	0.111
75	10.97	33.28	25.464	252.5	0.213	75	9.15	33.83	26.200	182.6	0.159
100	10.35	33.41	25.673	232.6	0.274	100	8.83	33.92	26.321	171.1	0.204
125	9.62	33.60	25.944	206.9	0.330	125	8.53	33.95	26.391	164.4	0.246
150	8.82	33.83	26.252	177.6	0.378	150	8.34	34.06	26.506	153.5	0.287
175	8.46	33.91	26.370	166.4	0.422	175	8.03	34.08	26.568	147.6	0.325
200	8.00	33.96	26.479	156.1	0.463	200	7.86	34.10	26.609	143.7	0.362
225	7.55	33.97	26.552	149.1	0.502	225	7.59	34.13	26.672	137.8	0.398
250	7.24	33.97	26.596	144.9	0.540	250	7.50	34.15	26.700	135.0	0.433
275	6.91	33.98	26.649	139.9	0.577	275	7.37	34.17	26.735	131.8	0.468
300	6.64	34.00	26.702	134.9	0.612	300	7.17	34.17	26.763	129.1	0.502
350	6.38	34.08	26.799	125.7	0.680	350	6.85	34.20	26.831	122.7	0.567
400	5.91	34.11	26.883	117.7	0.743	400	6.68	34.21	26.861	119.8	0.630
450	5.57	34.16	26.964	110.0	0.803	450	6.42	34.23	26.912	115.0	0.692
500	5.50	34.21	27.012	105.5	0.859	500	6.09	34.24	26.963	110.2	0.752
550	5.28	34.25	27.070	100.0	0.914	550	5.70	34.28	27.043	102.6	0.808
600	5.00	34.28	27.126	94.6	0.966	600	5.45	34.31	27.097	97.4	0.862
700	4.71	34.35	27.215	86.3	1.063	700	4.85	34.38	27.223	85.5	0.961
800	4.40	34.39	27.281	80.0	1.154						
900	4.06	34.43	27.349	73.6	1.239						
1000	3.77	34.46	27.402	68.5	1.319						

73060		RV DAVID STARR JORDAN		CALCOFI CRUISE 7505		73070					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME					
35 18.0N		121 57.5W		05/11/75		1935 GMT					
BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES			
2410M		340		25KT		1		290 8 12			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	11.92	33.44	25.414	257.2	0.000	0	13.12	33.40	25.151	282.3	0.000
10	11.91	33.44	25.416	257.1	0.025	10	13.12	33.40	25.151	282.3	0.028
20	11.89	33.44	25.420	256.7	0.051	20	13.11	33.40	25.153	282.1	0.056
30	11.76	33.44	25.444	254.4	0.077	30	12.92	33.39	25.183	279.2	0.084
40	11.45	33.43	25.494	249.7	0.102	40	12.78	33.38	25.203	277.3	0.112
50	11.41	33.44	25.509	248.3	0.127	50	12.60	33.38	25.238	274.0	0.140
75	10.40	33.46	25.703	229.7	0.187	75	11.08	33.41	25.545	244.8	0.205
100	9.49	33.64	25.997	201.9	0.241	100	10.05	33.55	25.833	217.4	0.263
125	9.02	33.83	26.220	180.6	0.290	125	9.53	33.68	26.021	199.6	0.316
150	8.70	33.89	26.318	171.4	0.334	150	8.94	33.81	26.218	180.9	0.364
175	8.25	33.93	26.418	161.9	0.377	175	8.55	33.91	26.357	167.7	0.408
200	8.01	33.97	26.485	155.5	0.417	200	8.36	33.98	26.440	159.8	0.450
225	7.66	33.99	26.552	149.1	0.456	225	7.82	33.99	26.529	151.3	0.490
250	7.46	34.01	26.596	144.9	0.494	250	7.58	34.00	26.571	147.3	0.528
275	7.16	34.02	26.646	140.2	0.531	275	7.28	34.02	26.630	141.8	0.566
300	6.83	34.03	26.700	135.1	0.566	300	7.05	34.04	26.677	137.2	0.602
350	6.30	34.08	26.809	124.7	0.633	350	6.54	34.05	26.754	129.9	0.671
400	5.73	34.11	26.905	115.6	0.696	400	6.01	34.07	26.839	121.9	0.736
450	5.50	34.14	26.957	110.7	0.755	450	5.75	34.14	26.926	113.6	0.798
500	5.33	34.18	27.009	105.8	0.812	500	5.40	34.16	26.985	108.1	0.856
550	5.11	34.22	27.066	100.3	0.867	550	5.31	34.22	27.043	102.6	0.912
600	4.95	34.25	27.108	96.3	0.919	600	4.87	34.23	27.102	97.0	0.965
700	4.68	34.35	27.218	85.9	1.017	700	4.68	34.33	27.202	87.4	1.064
800	4.48	34.41	27.288	79.3	1.108	800	4.32	34.38	27.281	80.0	1.156
900	4.22	34.44	27.339	74.4	1.193	900	4.03	34.43	27.352	73.3	1.240
1000	3.89	34.47	27.398	68.9	1.273	1000	3.64	34.45	27.407	68.0	1.319

73080		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 38.0N	123 22.0W	05/11/75	0834 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
430HM	320	23KT	0	320 7 8	
Z	T	S	SIGMA T	DT	DD
0	13.54	33.44	25.098	287.4	0.000
10	13.45	33.44	25.116	285.6	0.028
20	13.12	33.44	25.182	279.3	0.056
30	13.08	33.44	25.190	278.6	0.084
40	13.07	33.44	25.192	278.4	0.112
50	13.07	33.44	25.192	278.4	0.140
75	13.06	33.44	25.194	278.2	0.210
100	13.04	33.44	25.198	277.8	0.280
125	11.42	33.45	25.515	247.7	0.347
150	10.55	33.50	25.709	229.3	0.407
175	9.50	33.67	26.018	199.8	0.462
200	8.73	33.87	26.297	173.3	0.509
225	8.23	33.96	26.444	159.4	0.552
250	7.87	33.99	26.521	152.0	0.592
275	7.46	34.00	26.589	145.6	0.630
300	7.29	34.03	26.636	141.2	0.667
350	6.65	34.06	26.747	130.6	0.737
400	6.44	34.13	26.830	122.7	0.803
450	6.21	34.20	26.916	114.6	0.866
500	5.95	34.25	26.988	107.8	0.924
550	5.69	34.28	27.044	102.4	0.980
600	5.42	34.29	27.085	98.6	1.034
700	4.90	34.34	27.186	89.0	1.136
800	4.60	34.40	27.267	81.3	1.229
900	4.20	34.43	27.334	75.0	1.315
1000	3.87	34.47	27.400	68.7	1.396

73090		CALCOFI CRUISE 7505			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 18.5N	124 04.0W	05/11/75	0324 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3075M	310	15KT	2		
Z	T	S	SIGMA T	DT	DD
0	13.27	33.37	25.098	287.3	0.000
10	12.62	33.37	25.227	275.1	0.028
20	12.47	33.37	25.256	272.3	0.055
30	12.13	33.37	25.321	266.2	0.082
40	11.97	33.38	25.358	262.5	0.109
50	11.86	33.40	25.395	259.1	0.135
75	11.65	33.48	25.496	249.5	0.199
100	11.09	33.52	25.629	236.9	0.260
125	10.16	33.62	25.869	214.0	0.317
150	8.57	33.76	26.174	185.0	0.368
175	8.62	33.86	26.306	172.4	0.413
200	8.30	33.92	26.403	163.3	0.456
225	8.00	33.98	26.494	154.6	0.496
250	7.57	33.97	26.549	149.4	0.535
275	7.19	34.00	26.627	142.0	0.573
300	6.83	34.01	26.684	136.6	0.609
350	6.08	34.01	26.783	127.3	0.677
400	5.63	34.05	26.870	118.9	0.741
450	5.54	34.14	26.952	111.2	0.801
500	5.11	34.15	27.011	105.6	0.858
550	5.21	34.26	27.086	98.4	0.912
600	5.00	34.29	27.134	93.9	0.964
700	4.59	34.35	27.228	85.0	1.060
800	4.28	34.40	27.301	78.0	1.149
900	3.98	34.44	27.365	72.0	1.232
1000	3.72	34.46	27.407	68.0	1.310

77051		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 01.0N	120 56.5W	05/12/75	0801 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
297M	330	21KT	0	290 10 8	
Z	T	S	SIGMA T	DT	DD
0	11.09	33.59	25.683	231.7	0.000
10	11.08	33.59	25.685	231.5	0.023
20	11.06	33.59	25.688	231.2	0.046
30	10.43	33.60	25.807	219.9	0.068
40	10.11	33.62	25.878	213.2	0.090
50	9.93	33.67	25.947	206.6	0.111
75	9.28	33.89	26.225	180.1	0.160
100	9.17	33.93	26.275	175.5	0.205
125	8.93	34.01	26.375	165.9	0.248
150	8.55	34.06	26.474	156.6	0.289
175	8.35	34.12	26.551	149.2	0.328
200	8.05	34.14	26.612	143.4	0.365
225	7.82	34.15	26.654	139.4	0.402
250	7.52	34.16	26.706	134.6	0.437
263	7.38	34.17	26.733	131.9	0.455

77055		CALCOFI CRUISE 7505			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 54.5N	121 13.5W	05/12/75	1020 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
593M	330	23KT	0	290 8 8	
Z	T	S	SIGMA T	DT	DD
0	11.46	33.59	25.616	238.1	0.000
10	11.46	33.59	25.616	238.1	0.023
20	11.18	33.59	25.667	233.2	0.047
30	11.14	33.60	25.682	231.8	0.070
40	10.44	33.62	25.821	218.6	0.093
50	10.41	33.64	25.842	216.6	0.115
75	9.73	33.74	26.035	198.3	0.167
100	8.94	33.84	26.241	178.7	0.214
125	8.45	33.93	26.387	164.7	0.258
150	8.15	33.97	26.464	157.5	0.299
175	7.87	33.98	26.514	152.8	0.338
200	7.88	34.10	26.606	144.0	0.376
225	7.79	34.13	26.643	140.5	0.413
250	7.63	34.17	26.697	135.3	0.448
275	7.42	34.19	26.743	131.0	0.483
300	7.34	34.19	26.755	129.9	0.516
350	6.40	34.12	26.828	122.9	0.582
400	6.49	34.23	26.902	115.9	0.644
450	6.09	34.26	26.978	108.7	0.703
500	5.74	34.27	27.030	103.8	0.760
550	5.58	34.30	27.073	99.7	0.814

77060				RV DAVID STARR JORDAN			CALCOP I CRUISE 7505				77070		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	DOMINANT WAVES	
34 45.0N	121 33.0W	05/12/75	1320 GMT	34 23.5N	122 16.0W	05/12/75	1920 GMT					300	B B
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
851M	330	22KT	0	290 B 9	4110M	320	21KT	0	300 B B				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	17.39	33.58	25.433	255.4	0.000	0	12.50	33.37	25.250	272.9	0.000		
10	12.40	33.58	25.431	255.6	0.025	10	12.47	33.37	25.256	272.3	0.027		
20	12.40	33.58	25.431	255.6	0.051	20	12.41	33.37	25.267	271.3	0.054		
30	12.12	33.58	25.485	250.5	0.076	30	12.10	33.37	25.326	265.6	0.081		
40	11.25	33.59	25.654	234.4	0.100	40	11.64	33.37	25.412	257.4	0.107		
50	10.65	33.62	25.784	222.0	0.123	50	11.12	33.40	25.530	246.2	0.132		
75	9.75	33.77	26.055	196.3	0.176	75	10.28	33.48	25.740	226.3	0.192		
100	9.01	33.85	26.238	179.0	0.223	100	9.41	33.70	26.056	196.2	0.245		
125	8.60	33.91	26.349	168.4	0.267	125	9.00	33.83	26.223	180.3	0.293		
150	8.38	33.96	26.422	161.5	0.309	150	8.37	33.93	26.407	162.9	0.336		
175	8.14	33.99	26.481	155.8	0.350	175	7.94	33.98	26.503	153.8	0.377		
200	7.90	34.01	26.533	151.0	0.389	200	7.76	34.01	26.553	149.0	0.415		
225	7.42	34.01	26.602	144.4	0.426	225	7.49	34.03	26.608	143.8	0.453		
250	7.18	34.01	26.636	141.2	0.463	250	7.23	34.02	26.637	141.1	0.489		
275	6.79	34.02	26.697	135.3	0.499	275	6.90	34.03	26.690	136.0	0.525		
300	6.56	34.04	26.744	130.9	0.533	300	6.72	34.07	26.746	130.7	0.559		
350	6.10	34.07	26.827	123.0	0.599	350	6.58	34.15	26.828	123.0	0.625		
400	5.69	34.10	26.902	115.9	0.661	400	6.11	34.18	26.913	114.9	0.687		
450	5.65	34.18	26.970	109.4	0.720	450	5.61	34.18	26.975	109.0	0.746		
500	5.53	34.23	27.024	104.3	0.776	500	5.73	34.26	27.023	104.4	0.802		
550	5.38	34.27	27.074	99.6	0.831	550	5.15	34.25	27.085	98.5	0.856		
600	5.14	34.30	27.126	94.7	0.882	600	4.97	34.29	27.138	93.6	0.908		
700	4.83	34.37	27.217	86.0	0.980	700	4.68	34.36	27.226	85.2	1.004		
800	4.50	34.41	27.286	79.5	1.071	800	4.31	34.40	27.298	78.4	1.093		
						900	4.05	34.44	27.357	72.7	1.177		
						1000	3.75	34.48	27.420	66.8	1.255		

RV DAVID STARR JORDAN				CALCOP I CRUISE 7505				77070							
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
34 23.5N	122 16.0W	5/12/75	2023 GMT	4110M	320	21KT	0	300 B B							
Z	T	S	QZ	PO4	SI03	NO2	NO3	DT	Z	T	S	QZ	SIGT	DT	DD
1	12.55	33.370	6.28					273.8	0	12.55	33.370	6.28	25.240	273.8	0.000
11	12.54	33.368	6.27					273.8	10	12.54	33.370	6.27	25.240	273.8	0.027
31	12.16	33.363	6.37					267.2	20	12.41	33.367	6.32	25.263	271.7	0.054
60	11.12	33.368	5.89					248.6	30	12.18	33.364	6.36	25.304	267.7	0.081
80	10.70	33.465	5.18					234.3	50	11.48	33.357	6.13	25.430	255.8	0.134
94	9.56	33.526	4.65					211.4	75	10.86	33.440	5.37	25.607	239.0	0.196
108	9.43	33.702	3.99					196.4	100	9.50	33.612	4.36	25.972	204.3	0.252
137	8.98	33.862	3.19					177.6	125	9.19	33.819	3.43	26.183	184.1	0.301
161	8.40	33.917	3.06					165.0	150	8.66	33.896	3.08	26.327	170.5	0.346
188	7.94	33.985	2.95					153.4	200	7.80	33.999	2.82	26.538	150.5	0.428
222	7.59	34.011	2.56					146.6	250	7.24	34.019	2.24	26.634	141.3	0.503
291	6.77	34.034	1.80					134.0	300	6.71	34.045	1.70	26.727	132.5	0.573
390	6.31	34.159	0.91					118.9	400	6.26	34.169	0.85	26.884	117.6	0.703
493	5.78	34.238	0.55					106.6	500	5.72	34.241	0.53	27.009	105.8	0.821
596	4.99	34.271	0.37					95.2	600	4.97	34.274	0.36	27.124	94.8	0.928
729	4.61	34.364	0.32					84.2	700	4.66	34.343	0.33	27.214	86.3	1.025
882	4.08	34.439	0.56					73.1	800	4.36	34.403	0.41	27.295	78.7	1.115
1048	3.64	34.478	0.67					65.9	1000	3.75	34.471	0.65	27.413	67.5	1.278

77080				RV DAVID STARR JORDAN			CALCOP I CRUISE 7505				77090		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	DOMINANT WAVES	
34 04.0N	122 57.0W	05/13/75	0040 GMT	33 43.0N	123 39.0W	05/13/75	0525 GMT					330	B 10
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
4308M	330	20KT	0	330 B 7	4498M	310	21KT	0	330 B 10				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	12.95	33.53	25.285	269.5	0.000	0	13.31	33.17	24.936	302.8	0.000		
10	12.81	33.53	25.313	266.9	0.026	10	13.31	33.17	24.936	302.8	0.030		
20	12.40	33.54	25.400	258.6	0.053	20	13.25	33.17	24.948	301.6	0.060		
30	12.24	33.55	25.439	254.9	0.078	30	13.00	33.17	24.998	296.9	0.090		
40	11.77	33.58	25.551	244.2	0.103	40	12.61	33.27	25.151	282.3	0.119		
50	11.68	33.61	25.591	240.5	0.128	50	12.46	33.30	25.204	277.3	0.147		
75	10.33	33.63	25.848	216.0	0.185	75	11.73	33.33	25.365	262.0	0.215		
100	9.36	33.68	26.049	196.9	0.237	100	10.04	33.38	25.703	229.8	0.277		
125	8.12	33.83	26.204	182.1	0.285	125	9.38	33.66	26.030	198.7	0.331		
150	8.69	33.90	26.327	170.5	0.330	150	8.84	33.79	26.218	180.9	0.379		
175	8.33	33.95	26.421	161.5	0.372	175	8.44	33.92	26.381	165.4	0.423		
200	7.94	34.00	26.519	152.3	0.412	200	8.03	33.97	26.482	155.8	0.464		
225	7.78	34.04	26.574	147.1	0.451	225	7.68	33.98	26.541	150.2	0.503		
250	7.41	34.04	26.627	142.0	0.488	250	7.31	33.99	26.602	144.4	0.541		
275	7.27	34.06	26.663	138.6	0.524	275	7.08	34.02	26.658	139.1	0.578		
300	6.79	34.05	26.721	133.1	0.559	300	6.81	34.03	26.702	134.9	0.613		
350	6.04	34.06	26.827	123.0	0.625	350	6.30	34.06	26.794	126.2	0.681		
400	5.58	34.08	26.900	116.1	0.687	400	5.87	34.10	26.880	118.0	0.744		
450	5.43	34.15	26.973	109.2	0.746	450	5.53	34.12	26.938	112.6	0.804		
500	5.23	34.19	27.029	103.9	0.802	500	5.25	34.15	26.994	107.1	0.862		
550	5.07	34.25	27.095	97.6	0.856	550	4.90	34.18	27.059	101.0	0.917		
600	4.93	34.29	27.142	93.1	0.907	600	4.64	34.22	27.120	95.3	0.969		
700	4.49	34.35	27.239	84.0	1.002	700	4.44	34.32	27.221	85.7	1.066		
800	4.30	34.40	27.299	78.2	1.091	800	4.15	34.37	27.291	79.0	1.156		
900	4.07	34.44	27.355	72.9	1.174	900	3.80	34.43	27.375	71.0	1.239		
1000	3.85	34.48	27.410	67.8	1.253	1000	3.61	34.47	27.426	66.2	1.315		

R0052		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				R0055			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
34 25.0N	120 35.5W	05/14/75	0931 GMT			34 19.0N	120 48.0W	05/14/75	0540 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
233M							759M	240	3KT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	12.04	33.91	25.756	224.8	0.000	0	10.70	33.87	25.970	204.4	0.000		
10	11.74	33.90	25.804	220.1	0.022	10	10.67	33.88	25.983	203.2	0.020		
20	10.79	33.87	25.954	205.9	0.043	20	10.50	33.89	26.020	199.6	0.040		
30	10.62	33.93	26.030	198.6	0.063	30	10.09	33.95	26.138	188.5	0.060		
40	10.38	33.94	26.080	193.9	0.083	40	9.95	33.96	26.169	185.5	0.078		
50	9.90	33.93	26.154	186.9	0.102	50	9.92	33.99	26.198	182.8	0.097		
75	9.44	33.99	26.277	175.2	0.148	75	9.78	34.00	26.229	179.8	0.142		
100	9.14	34.08	26.396	163.9	0.191	100	8.94	34.02	26.381	165.3	0.186		
125	9.00	34.10	26.434	160.3	0.232	125	8.64	34.08	26.475	156.4	0.227		
150	8.90	34.12	26.466	157.3	0.272	150	8.32	34.07	26.517	152.5	0.266		
175	8.63	34.13	26.516	152.5	0.312	175	8.20	34.11	26.566	147.8	0.304		
200	8.57	34.13	26.525	151.6	0.351	200	8.06	34.14	26.611	143.5	0.342		
						225	7.93	34.14	26.630	141.7	0.378		
						250	7.70	34.14	26.664	138.5	0.414		
						275	7.52	34.15	26.698	135.3	0.450		
						300	7.04	34.15	26.765	128.9	0.484		
						350	6.57	34.15	26.829	122.8	0.549		
						400	6.21	34.16	26.884	117.6	0.612		
						450	5.81	34.20	26.966	109.8	0.672		
						500	5.75	34.27	27.029	103.9	0.728		
						550	5.54	34.29	27.070	99.9	0.782		
						600	5.35	34.32	27.117	95.5	0.835		
						650	5.13	34.35	27.167	90.8	0.885		

R0060		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				R0070			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
34 09.0N	121 09.0W	05/14/75	0224 GMT			33 48.5N	121 51.0W	05/13/75	2033 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
2222M	230	3KT	2	310 4 5			3832M	250	8KT	2	330 4 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	12.86	33.41	25.210	276.6	0.000	0	13.05	33.49	25.235	274.3	0.000		
10	12.52	33.42	25.285	269.6	0.027	10	12.85	33.49	25.274	270.6	0.027		
20	12.51	33.48	25.333	265.0	0.054	20	12.38	33.51	25.381	260.4	0.053		
30	12.49	33.52	25.368	261.7	0.080	30	12.29	33.56	25.437	255.1	0.079		
40	12.08	33.56	25.477	251.3	0.106	40	11.57	33.48	25.510	248.1	0.104		
50	11.66	33.61	25.594	240.1	0.130	50	11.98	33.60	25.527	246.5	0.129		
75	10.35	33.63	25.844	216.4	0.188	75	10.92	33.67	25.775	222.9	0.188		
100	9.61	33.72	26.039	197.8	0.240	100	9.83	33.81	26.073	194.7	0.241		
125	9.28	33.82	26.171	185.3	0.289	125	9.48	33.87	26.177	184.7	0.289		
150	9.08	33.90	26.265	176.3	0.334	150	8.88	33.85	26.258	177.0	0.335		
175	8.61	33.92	26.355	167.8	0.378	175	8.54	33.93	26.374	166.1	0.379		
200	8.73	34.05	26.438	160.0	0.420	200	8.10	33.97	26.472	156.8	0.420		
225	8.38	34.08	26.516	152.6	0.460	225	7.72	33.99	26.543	150.0	0.459		
250	7.89	34.07	26.581	146.4	0.498	250	7.37	34.00	26.601	144.5	0.497		
275	7.65	34.08	26.624	142.3	0.536	275	6.98	34.02	26.671	137.8	0.533		
300	7.23	34.08	26.684	136.6	0.572	300	6.74	34.04	26.720	133.2	0.568		
350	6.86	34.14	26.782	127.3	0.640	350	6.26	34.06	26.799	125.7	0.635		
400	6.43	34.16	26.855	120.3	0.705	400	5.88	34.10	26.879	118.1	0.698		
450	6.23	34.24	26.944	111.9	0.766	450	5.67	34.14	26.936	112.7	0.759		
500	5.97	34.25	26.986	108.0	0.824	500	5.50	34.20	27.004	106.2	0.817		
550	5.58	34.27	27.050	101.9	0.880	550	5.27	34.27	27.087	98.4	0.871		
600	5.28	34.33	27.133	94.0	0.932	600	5.05	34.30	27.137	93.7	0.922		
700	4.69	34.37	27.233	84.5	1.029	700	4.64	34.35	27.223	85.5	1.019		
800	4.41	34.41	27.295	78.6	1.118	800	4.29	34.38	27.284	79.6	1.109		
900	4.20	34.44	27.342	74.2	1.203	900	4.04	34.42	27.343	74.1	1.194		
1000	3.92	34.48	27.403	68.5	1.283	1000	3.73	34.46	27.406	68.1	1.273		

RV DAVID STARR JORDAN		CALCOFI CRUISE 7505				R0070									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 48.5N	121 51.0W	5/13/75	2133 GMT			3832M	250	8KT	2	330 9 6					
Z	T	S	D2	P04	S103	N02	N13	DT	Z	T	S	D2	SIGT	DT	DD
2	13.12	33.495	6.30					275.3	0	13.12	33.495	6.30	25.225	275.3	0.000
12	12.92	33.494	6.32					271.6	10	12.96	33.494	6.31	25.253	272.6	0.027
29	12.39	33.541	6.39					258.3	20	12.67	33.513	6.36	25.325	265.7	0.054
59	11.93	33.643	6.05					242.5	30	12.38	33.546	6.37	25.408	257.9	0.080
77	10.86	33.640	5.41					224.1	50	12.12	33.620	6.15	25.515	247.7	0.131
92	10.90	33.691	5.45					221.0	75	10.96	33.640	5.47	25.744	225.9	0.190
108	9.80	33.815	3.94					193.8	100	10.39	33.754	4.73	25.932	208.0	0.245
135	8.99	33.806	3.69					181.9	125	9.17	33.784	3.78	26.160	186.3	0.295
157	8.88	33.845	3.54					177.4	150	8.89	33.828	3.59	26.238	179.0	0.341
184	8.45	33.959	3.12					162.6	200	8.21	33.980	2.94	26.462	157.7	0.427
219	7.96	33.985	2.78					153.7	250	7.59	34.004	2.49	26.572	147.2	0.505
290	7.16	34.023	2.15					139.9	300	7.03	34.027	2.06	26.669	138.0	0.579
391	6.04	34.072	1.33					122.2	400	5.98	34.082	1.25	26.851	120.8	0.713
496	5.61	34.196	0.55					107.8	500	5.59	34.200	0.53	26.993	107.3	0.833
601	5.14	34.288	0.31					95.6	600	5.14	34.287	0.31	27.115	95.7	0.941
736	4.57	34.349	0.28					84.9	700	4.71	34.336	0.28	27.203	87.4	1.040
889	4.08	34.420	0.46					74.5	800	4.35	34.381	0.34	27.278	80.2	1.131
1052	3.62	34.460	0.59					67.1	1000	3.75	34.451	0.55	27.396	69.1	1.297

80080			RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
33 29.0N	122 32.0W	05/13/75	1549 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		
3426M	330	RKT	2	330 4 5		
Z	T	S	SIGMA T	DT	DD	
0	13.32	33.25	24.996	297.1	0.000	
10	13.32	33.25	24.996	297.1	0.029	
20	13.31	33.25	24.998	296.9	0.059	
30	13.28	33.25	25.004	296.3	0.089	
40	12.75	33.24	25.101	287.1	0.118	
50	12.46	33.33	25.227	275.1	0.146	
75	11.91	33.34	25.339	264.4	0.214	
100	10.77	33.38	25.577	241.8	0.278	
125	9.88	33.48	25.807	219.9	0.336	
150	8.93	33.69	26.125	189.6	0.388	
175	8.63	33.86	26.305	172.6	0.434	
200	8.24	33.96	26.443	159.5	0.476	
225	7.75	33.99	26.539	150.4	0.516	
250	7.49	34.00	26.584	146.1	0.554	
275	7.27	34.02	26.631	141.6	0.591	
300	6.98	34.02	26.671	137.8	0.627	
350	6.63	34.06	26.750	130.3	0.697	
400	6.03	34.09	26.852	120.7	0.762	
450	5.71	34.14	26.931	113.2	0.823	
500	5.40	34.18	27.001	106.6	0.881	
550	5.16	34.23	27.068	100.1	0.936	
600	4.93	34.28	27.134	93.9	0.987	
700	4.68	34.36	27.226	85.2	1.084	
800	4.41	34.41	27.295	78.6	1.174	
900	4.15	34.44	27.347	73.7	1.258	
1000	3.82	34.47	27.405	68.2	1.338	

CALCOFI CRUISE 7505			80090			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
33 07.0N	123 14.0W	05/13/75	1045 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
4308M	350	15KT	0			
Z	T	S	SIGMA T	DT	DD	
0	13.57	33.20	24.907	305.6	0.000	
10	13.57	33.20	24.907	305.6	0.030	
20	13.57	33.20	24.907	305.6	0.061	
30	13.40	33.20	24.941	302.3	0.091	
40	12.78	33.21	25.072	289.8	0.121	
50	12.57	33.22	25.120	285.2	0.150	
75	11.59	33.29	25.359	262.5	0.219	
100	11.02	33.40	25.548	244.5	0.282	
125	9.40	33.50	25.902	210.9	0.340	
150	9.02	33.75	26.158	186.5	0.390	
175	8.65	33.88	26.317	171.4	0.436	
200	8.41	33.95	26.409	162.7	0.478	
225	8.00	33.98	26.494	154.6	0.519	
250	7.47	33.99	26.579	146.5	0.558	
275	6.86	33.97	26.649	140.0	0.594	
300	6.51	34.00	26.719	133.3	0.630	
350	6.09	34.07	26.829	122.9	0.696	
400	5.63	34.10	26.910	115.2	0.758	
450	5.54	34.17	26.976	108.9	0.817	
500	5.32	34.19	27.018	104.9	0.873	
550	5.04	34.23	27.082	98.8	0.927	
600	4.99	34.30	27.144	93.0	0.978	
700	4.57	34.36	27.238	84.0	1.074	
800	4.20	34.40	27.310	77.2	1.162	
900	3.95	34.43	27.360	72.5	1.244	
1000	3.70	34.46	27.409	67.8	1.323	

81043			RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 24.0N	119 48.0W	05/15/75	2249 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		
37M	230	1KT		240 3 3		
Z	T	S	SIGMA T	DT	DD	
0	13.35	33.88	25.476	251.4	0.000	
10	12.85	33.86	25.560	243.4	0.024	
20	11.73	33.84	25.760	224.4	0.048	
30	10.92	33.88	25.939	207.4	0.069	

CALCOFI CRUISE 7505			81044			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 23.0N	119 50.0W	05/15/75	2121 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
62M	250	7KT	2	250 3 5		
Z	T	S	SIGMA T	DT	DD	
0	13.11	33.86	25.508	248.3	0.000	
10	12.76	33.86	25.578	241.7	0.024	
20	11.33	33.86	25.849	215.9	0.047	
30	10.53	33.85	25.984	203.1	0.068	
40	10.60	33.90	26.011	200.5	0.088	
50	10.25	33.91	26.079	194.0	0.108	

81044			RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 22.0N	119 52.0W	05/15/75	1952 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		
75M	220	5KT	1	270 3 4		
Z	T	S	SIGMA T	DT	DD	
0	12.76	33.86	25.578	241.7	0.000	
10	11.68	33.82	25.753	225.0	0.023	
20	11.09	33.83	25.869	214.0	0.045	
30	10.54	33.85	25.982	203.2	0.066	
40	10.04	33.86	26.076	194.3	0.086	
50	9.76	33.89	26.147	187.6	0.105	

CALCOFI CRUISE 7505			81045			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 21.0N	119 54.0W	05/15/75	1805 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
353M	220	3KT	2	250 3 4		
Z	T	S	SIGMA T	DT	DD	
0	12.65	33.82	25.568	242.6	0.000	
10	11.15	33.84	25.866	214.3	0.022	
20	10.77	33.86	25.950	206.3	0.043	
30	10.40	33.90	26.046	197.2	0.064	
40	9.68	33.92	26.183	184.1	0.083	
50	9.65	33.93	26.196	182.9	0.101	
75	9.45	33.98	26.268	176.1	0.146	
100	9.13	34.03	26.359	167.5	0.190	
125	8.76	34.08	26.457	158.2	0.231	
150	8.56	34.10	26.503	153.7	0.271	
175	8.58	34.15	26.539	150.3	0.310	
200	8.38	34.18	26.594	145.2	0.347	

81046			RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 19.0N	119 58.0W	05/15/75	1606 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		
501M	250	4KT	2	250 3 4		
Z	T	S	SIGMA T	DT	DD	
0	11.14	33.91	25.922	208.9	0.000	
10	10.75	33.93	26.007	200.8	0.020	
20	10.36	33.96	26.099	192.1	0.040	
30	9.95	34.00	26.200	182.5	0.058	
40	9.92	34.00	26.205	182.0	0.077	
50	9.84	34.01	26.227	180.0	0.095	
75	9.37	33.99	26.289	174.1	0.140	
100	8.72	34.07	26.455	158.3	0.182	
125	8.51	34.08	26.495	154.5	0.221	
150	8.42	34.12	26.541	150.2	0.260	
175	8.25	34.15	26.590	145.5	0.298	
200	8.09	34.16	26.622	142.5	0.334	

CALCOFI CRUISE 7505			81047			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 17.0N	120 02.5W	05/14/75	1426 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
593M	290	9KT				
Z	T	S	SIGMA T	DT	DD	
0	11.55	33.97	25.894	211.6	0.000	
10	10.72	33.96	26.036	198.1	0.020	
20	10.08	33.96	26.147	187.6	0.039	
30	9.49	34.02	26.293	173.8	0.057	
40	9.06	34.05	26.386	164.9	0.074	
50	8.88	34.09	26.445	159.2	0.091	
75	8.69	34.13	26.507	153.4	0.130	
100	8.31	34.11	26.550	149.4	0.168	
125	8.22	34.14	26.587	145.8	0.206	
150	8.19	34.16	26.607	143.9	0.243	
175	8.04	34.17	26.637	141.0	0.279	
200	7.79	34.17	26.674	137.5	0.315	

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81047

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 17.0N	120 02.5W	05/15/75	1304 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
593M	310	16KT	1	290 4 4	
Z	T	S	SIGMA T	DT	DD
0	11.22	33.98	25.962	205.1	0.000
10	11.02	33.97	25.990	202.4	0.020
20	10.52	33.96	26.071	194.8	0.040
30	9.28	34.00	26.311	172.0	0.058
40	9.00	34.07	26.411	162.5	0.075
50	8.91	34.09	26.441	159.7	0.091
75	8.68	34.11	26.493	154.8	0.131
100	8.50	34.14	26.544	149.9	0.169
125	8.25	34.15	26.590	145.5	0.207
150	8.12	34.15	26.610	143.7	0.244
175	8.10	34.17	26.628	141.9	0.280
200	7.98	34.17	26.646	140.2	0.316

CALCOFI CRUISE 7505

83034⁴

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 14.5N	119 19.5W	05/16/75	0155 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
19M	250	3KT	2	240 3 4	
Z	T	S	SIGMA T	DT	DD
0	13.74	33.79	25.327	265.6	0.000
5	13.61	33.78	25.345	263.8	0.013
10	13.12	33.77	25.437	255.1	0.026

6
83040

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 12.5N	119 24.0W	05/16/75	0310 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
37M	220	7KT	2	230 4 7	
Z	T	S	SIGMA T	DT	DD
0	13.28	33.79	25.420	256.7	0.000
10	11.95	33.78	25.672	232.7	0.024
20	10.99	33.79	25.856	215.2	0.046
30	10.90	33.82	25.895	211.5	0.068

CALCOFI CRUISE 7505

83041

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 11.5N	119 26.0W	05/16/75	0412 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
75M				240 3 6	
Z	T	S	SIGMA T	DT	DD
0	13.27	33.81	25.438	255.0	0.000
10	11.96	33.80	25.685	231.4	0.024
20	11.38	33.79	25.785	221.9	0.047
30	10.32	33.84	26.013	200.3	0.068
40	10.08	33.87	26.077	194.2	0.088
50	9.77	33.89	26.145	187.8	0.107
66	9.64	33.94	26.206	182.0	0.137

83042

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 09.5N	119 30.0W	05/16/75	0558 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
233M	230	2KT			
Z	T	S	SIGMA T	DT	DD
0	13.05	33.79	25.466	252.3	0.000
10	12.07	33.78	25.649	234.9	0.024
20	11.28	33.78	25.796	220.9	0.047
30	10.72	33.84	25.943	207.0	0.068
40	9.85	33.88	26.124	189.8	0.088
50	9.66	33.93	26.194	183.1	0.107
75	9.10	34.02	26.356	167.7	0.151
100	8.93	34.05	26.406	162.9	0.193
125	8.74	34.15	26.514	152.7	0.233
150	8.50	34.17	26.568	147.7	0.271
175	8.21	34.18	26.619	142.7	0.308
200	8.12	34.22	26.664	138.5	0.344

CALCOFI CRUISE 7505

83043

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 08.0N	119 34.0W	05/16/75	0855 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
251M					
Z	T	S	SIGMA T	DT	DD
0	12.68	33.78	25.532	246.1	0.000
10	12.65	33.79	25.545	244.8	0.024
20	11.33	33.79	25.795	221.1	0.047
30	10.92	33.82	25.892	211.8	0.069
40	10.48	33.85	25.993	202.2	0.090
50	9.90	33.87	26.108	191.3	0.110
75	9.40	33.95	26.253	177.5	0.156
100	8.98	34.04	26.391	164.4	0.199
125	8.63	34.08	26.446	159.2	0.240
150	8.72	34.12	26.494	154.6	0.280
175	8.49	34.16	26.561	148.2	0.319
200	8.36	34.20	26.612	143.4	0.356

83044

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 05.5N	119 38.0W	05/16/75	0955 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
187M	240	5KT			
Z	T	S	SIGMA T	DT	DD
0	12.25	33.87	25.684	231.5	0.000
10	11.95	33.86	25.734	226.8	0.022
20	11.45	33.86	25.827	218.0	0.045
30	11.06	33.87	25.906	210.5	0.066
40	10.93	33.89	25.945	206.8	0.087
50	10.78	33.90	25.979	203.6	0.108
75	10.22	33.92	26.092	192.8	0.158
100	9.37	33.95	26.258	177.1	0.204
125	8.89	34.08	26.436	160.1	0.247
150	8.51	34.16	26.558	148.5	0.286
160	8.35	34.18	26.598	144.7	0.301

CALCOFI CRUISE 7505

83044⁷

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 04.0N	119 41.0W	05/16/75	1131 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
90M	270	10KT			
Z	T	S	SIGMA T	DT	DD
0	11.84	33.85	25.747	225.6	0.000
10	11.80	33.85	25.754	224.9	0.022
20	11.80	33.85	25.754	224.9	0.045
30	11.78	33.85	25.758	224.5	0.067
40	11.73	33.85	25.767	223.6	0.090
50	11.30	33.86	25.854	215.4	0.112
75	10.62	33.92	26.023	199.4	0.164

P3045			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3051		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 03.5N	119 42.5W	05/16/75	1240 GMT	33 52.0N	120 08.5W	05/16/75	1815 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
86M	270	13KT	1	340 9 5	149M	290	31KT	1	340 9 5		
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	11.92	33.85	25.732	227.0	0.000	0	11.68	33.81	25.746	225.7	0.000
10	11.88	33.85	25.739	226.3	0.022	10	11.63	33.82	25.763	224.1	0.022
20	11.88	33.85	25.739	226.3	0.045	20	10.35	33.83	26.000	201.6	0.043
30	11.79	33.85	25.756	224.7	0.067	30	9.88	33.88	26.119	190.3	0.063
40	11.75	33.85	25.764	224.0	0.090	40	9.66	33.89	26.163	186.0	0.082
50	11.68	33.86	25.784	222.0	0.112	50	8.88	34.04	26.407	162.9	0.099
75	10.56	33.91	26.025	199.1	0.165	75	8.55	34.13	26.528	151.3	0.139
						100	8.32	34.15	26.579	146.5	0.177
						125	8.09	34.18	26.638	141.0	0.213

R3055			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3060		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 44.0N	120 24.5W	05/16/75	2206 GMT	33 34.0N	120 45.0W	05/17/75	0117 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
112M	330	28KT	1	330 6 6	138M	340	20KT	1	340 9 7		
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	11.97	33.75	25.645	235.3	0.000	0	11.75	33.77	25.702	229.9	0.000
10	11.96	33.76	25.655	234.4	0.023	10	11.75	33.77	25.702	229.9	0.023
20	11.65	33.76	25.712	228.9	0.046	20	11.69	33.77	25.713	228.8	0.045
30	10.87	33.77	25.862	214.7	0.068	30	11.24	33.77	25.796	221.0	0.068
40	10.55	33.79	25.934	207.8	0.090	40	11.12	33.77	25.817	218.9	0.090
50	10.02	33.81	26.041	197.7	0.110	50	10.43	33.78	25.947	206.6	0.111
75	9.62	33.88	26.162	186.2	0.158	75	9.86	33.81	26.068	195.1	0.162
100	8.90	33.92	26.310	172.1	0.204	100	9.05	33.87	26.247	178.1	0.209
125	8.70	33.99	26.396	164.0	0.246	125	8.68	33.97	26.383	165.2	0.253
150	8.53	34.05	26.469	157.0	0.287	150	8.57	34.06	26.470	156.9	0.293
175	8.24	34.08	26.537	150.6	0.326	175	8.08	34.08	26.561	148.3	0.332
200	7.71	34.05	26.592	145.4	0.364	200	7.45	34.01	26.598	144.8	0.370
225	7.34	34.04	26.637	141.1	0.401	225	7.03	34.03	26.672	137.7	0.406
250	7.01	34.06	26.699	135.2	0.436	250	6.97	34.07	26.712	133.9	0.441
275	7.17	34.20	26.786	126.9	0.470	275	6.72	34.09	26.762	129.2	0.475
300	6.95	34.21	26.825	123.2	0.502	300	6.43	34.10	26.808	124.8	0.507
350	6.56	34.24	26.901	116.0	0.564	350	6.28	34.18	26.891	117.0	0.570
400	6.28	34.26	26.954	111.0	0.624	400	6.15	34.22	26.939	112.4	0.630
450	5.89	34.25	26.996	107.0	0.681	450	5.92	34.25	26.992	107.4	0.688
500	5.71	34.27	27.034	103.4	0.737	500	5.63	34.29	27.059	101.0	0.743
550	5.47	34.31	27.095	97.6	0.790	550	5.49	34.33	27.108	96.4	0.796
600	5.32	34.34	27.136	93.7	0.842	600	5.30	34.34	27.139	93.5	0.847
700	4.92	34.38	27.215	86.3	0.939	700	4.84	34.39	27.232	84.6	0.943
800	4.59	34.41	27.276	80.5	1.031	800	4.55	34.42	27.288	79.3	1.033
900	4.32	34.44	27.329	75.4	1.117	900	4.22	34.45	27.347	73.7	1.118
1000	4.05	34.46	27.373	71.2	1.200	1000	4.03	34.46	27.375	71.0	1.199

R3070			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3080		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 14.5N	121 26.0W	05/17/75	0618 GMT	32 54.0N	122 08.0W	05/17/75	1100 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3926M	320	22KT	1	340 9 1	4212M	340	26KT	1	150 9 8		
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	11.81	33.75	25.675	232.4	0.000	0	13.41	33.34	25.047	292.2	0.000
10	11.81	33.75	25.675	232.4	0.023	10	13.41	33.34	25.047	292.2	0.029
20	11.77	33.75	25.683	231.7	0.046	20	13.42	33.34	25.045	292.4	0.058
30	11.27	33.75	25.775	223.0	0.069	30	13.42	33.34	25.045	292.4	0.087
40	10.32	33.78	25.966	204.8	0.090	40	13.42	33.35	25.053	291.7	0.117
50	9.90	33.87	26.108	191.3	0.110	50	13.35	33.37	25.082	288.8	0.146
75	9.37	33.90	26.219	180.8	0.157	75	12.55	33.50	25.341	264.2	0.215
100	9.15	33.97	26.309	172.2	0.202	100	11.22	33.53	25.613	238.3	0.279
125	9.01	34.07	26.409	162.7	0.244	125	10.33	33.61	25.832	217.5	0.336
150	8.83	34.11	26.469	157.0	0.285	150	9.82	33.74	26.020	199.7	0.389
175	8.72	34.13	26.502	153.9	0.324	175	9.38	33.85	26.178	184.6	0.438
200	8.46	34.16	26.566	147.8	0.363	200	8.89	33.95	26.335	169.8	0.483
225	7.97	34.15	26.632	141.5	0.400	225	8.63	34.04	26.446	159.2	0.525
250	7.64	34.16	26.688	136.2	0.436	250	8.23	34.06	26.522	151.9	0.565
275	7.38	34.18	26.741	131.2	0.470	275	8.06	34.09	26.572	147.3	0.604
300	7.37	34.20	26.758	129.5	0.504	300	7.78	34.11	26.628	141.8	0.641
350	6.86	34.21	26.837	122.1	0.569	350	7.09	34.14	26.751	130.3	0.712
400	6.53	34.24	26.905	115.6	0.632	400	6.56	34.19	26.862	119.7	0.777
450	6.18	34.25	26.959	110.5	0.691	450	6.21	34.24	26.947	111.6	0.838
500	5.49	34.23	27.029	103.9	0.748	500	5.90	34.29	27.026	104.2	0.895
550	5.32	34.26	27.073	99.7	0.802	550	5.53	34.30	27.080	99.1	0.949
600	5.15	34.30	27.125	94.8	0.854	600	5.35	34.33	27.125	94.8	1.001
700	4.66	34.36	27.228	85.0	0.951	700	4.95	34.38	27.211	86.6	1.100
800	4.36	34.41	27.301	78.1	1.040	800	4.57	34.42	27.286	79.5	1.191
900	4.01	34.43	27.354	73.1	1.124	900	4.29	34.45	27.340	74.4	1.276
1000	3.76	34.46	27.403	68.4	1.203	1000	4.02	34.48	27.392	69.4	1.357

83090 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 34.5N	122 50.0W	05/17/75	1600 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
430HM	320	25KT	2	110 9 5

Z	T	S	SIGMA T	DT	DD
0	13.60	33.45	25.093	287.8	0.000
10	13.60	33.45	25.093	287.8	0.028
20	13.60	33.45	25.093	287.8	0.057
30	13.60	33.45	25.093	287.8	0.086
40	13.60	33.45	25.093	287.8	0.115
50	13.05	33.45	25.204	277.3	0.143
75	11.58	33.31	25.377	260.8	0.211
100	10.87	33.42	25.590	240.5	0.274
125	9.97	33.63	25.909	210.2	0.331
150	9.26	33.79	26.151	187.2	0.381
175	8.69	33.89	26.319	171.2	0.427
200	8.20	33.96	26.449	158.9	0.469
225	7.92	33.99	26.514	152.7	0.509
250	7.64	34.00	26.563	148.1	0.548
275	7.31	34.01	26.618	142.9	0.585
300	7.12	34.03	26.660	138.9	0.621
350	6.60	34.06	26.754	129.9	0.691
400	6.07	34.11	26.863	119.7	0.756
450	5.75	34.14	26.926	113.6	0.817
500	5.54	34.18	26.984	108.2	0.875
550	5.36	34.25	27.061	100.9	0.931
600	5.06	34.30	27.135	93.8	0.983
700	4.70	34.38	27.240	83.9	1.079
800	4.40	34.41	27.296	78.5	1.168
900	4.13	34.45	27.357	72.8	1.252
1000	3.79	34.48	27.416	67.2	1.330

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 02.5N	118 58.5W	05/19/75	0856 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28M	310	5KT		

Z	T	S	SIGMA T	DT	DD
0	13.86	33.77	25.286	269.4	0.000
5	13.37	33.75	25.371	261.3	0.013
10	12.95	33.75	25.455	253.3	0.026
15	12.51	33.77	25.557	243.7	0.038
20	12.09	33.81	25.669	233.1	0.050
25	11.76	33.82	25.739	226.4	0.062

85037⁵ RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 02.0N	118 54.5W	05/19/75	0740 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
71M	040	4KT	0	

Z	T	S	SIGMA T	DT	DD
0	13.89	33.77	25.280	270.0	0.000
10	13.30	33.73	25.370	261.5	0.026
20	12.08	33.71	25.593	240.2	0.051
30	11.12	33.78	25.825	218.2	0.074
40	10.59	33.84	25.966	204.8	0.095
50	10.36	33.86	26.021	199.5	0.116
60	10.00	33.90	26.114	190.7	0.135

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
34 01.0N	119 02.5W	05/19/75	0606 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
223M	270	4KT	0	

Z	T	S	SIGMA T	DT	DD
0	13.86	33.74	25.263	271.6	0.000
10	12.87	33.74	25.463	252.6	0.026
20	11.46	33.72	25.717	228.5	0.050
30	10.84	33.71	25.821	218.6	0.072
40	10.46	33.79	25.949	206.3	0.094
50	10.13	33.84	26.045	197.2	0.114
75	9.62	33.94	26.209	181.7	0.162
100	9.12	34.06	26.384	165.1	0.205
125	8.92	34.10	26.447	159.1	0.246
150	8.82	34.13	26.486	155.4	0.286
175	8.69	34.14	26.515	152.7	0.326
200	8.57	34.18	26.564	147.9	0.364

85039 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 59.0N	119 06.0W	05/19/75	0423 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
644M	270	5KT	0	

Z	T	S	SIGMA T	DT	DD
0	14.57	33.74	25.114	285.8	0.000
10	13.64	33.73	25.301	268.0	0.027
20	12.32	33.72	25.555	243.8	0.053
30	11.37	33.74	25.748	225.4	0.076
40	10.85	33.76	25.858	215.1	0.098
50	10.48	33.79	25.946	206.7	0.120
75	9.64	33.88	26.151	187.3	0.169
100	9.44	33.95	26.246	178.1	0.215
125	8.86	34.00	26.378	165.6	0.259
150	8.72	34.12	26.494	154.6	0.300
175	8.73	34.17	26.532	151.1	0.339
200	8.57	34.19	26.572	147.2	0.377

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 57.0N	119 10.5W	05/19/75	0242 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
759M	230	6KT	1	360 1 7

Z	T	S	SIGMA T	DT	DD
0	14.68	33.70	25.060	291.0	0.000
10	14.21	33.68	25.144	282.9	0.028
20	13.80	33.68	25.229	274.8	0.056
30	12.79	33.71	25.456	253.3	0.083
40	11.72	33.73	25.676	232.3	0.107
50	10.48	33.75	25.915	209.6	0.129
75	9.34	33.90	26.223	180.3	0.178
100	9.03	34.02	26.367	166.7	0.222
125	8.94	34.07	26.420	161.6	0.264
150	8.73	34.13	26.500	154.0	0.304
175	8.55	34.19	26.575	146.9	0.342
200	8.52	34.24	26.619	142.8	0.379

87032⁵ RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 53.5N	118 26.5W	05/19/75	1842 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
19M	270	4KT	2	

Z	T	S	SIGMA T	DT	DD
0	15.88	33.76	24.842	311.7	0.000
5	15.34	33.76	24.962	300.2	0.015
10	14.48	33.75	25.141	283.2	0.029
15	11.94	33.80	25.689	231.1	0.042

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 54.5N	118 28.0W	05/19/75	1725 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
30M	290	5KT	2	280 1 9

Z	T	S	SIGMA T	DT	DD
0	15.60	33.76	24.905	305.7	0.000
5	15.05	33.76	25.026	294.2	0.015
10	13.43	33.75	25.359	262.5	0.028
15	13.18	33.74	25.402	258.4	0.041
20	12.27	33.74	25.580	241.5	0.054
25	11.89	33.73	25.644	235.3	0.066

87033			RV DAVID STARR JORDAN		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 54.0N	118 29.0W	05/19/75	1605 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
48M	240	7KT	2	260	1 8
Z	T	S	SIGMA T	DT	DU
0	14.60	33.77	25.131	284.2	0.000
10	13.17	33.76	25.419	256.8	0.027
20	12.61	33.76	25.530	246.2	0.052
30	11.53	33.77	25.743	226.0	0.075
40	11.30	33.79	25.800	220.5	0.098

CALCOFI CRUISE 7505			87034		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 52.0N	118 33.5W	05/19/75	1443 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
73M	270	5KT	2	49	
Z	T	S	SIGMA T	DT	DU
0	14.55	33.75	25.126	284.7	0.000
10	14.46	33.75	25.145	282.8	0.028
20	14.39	33.76	25.168	280.7	0.056
30	12.43	33.68	25.503	248.8	0.083
40	11.30	33.64	25.684	231.6	0.107
50	10.53	33.68	25.852	215.6	0.129
62	10.03	33.87	26.086	193.4	0.154

87035			RV DAVID STARR JORDAN		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 50.5N	118 37.5W	05/19/75	1305 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
380M	260	7KT	2	270	2 6
Z	T	S	SIGMA T	DT	DU
0	15.49	33.73	24.906	305.6	0.000
10	15.48	33.73	24.908	305.4	0.030
20	14.45	33.71	25.116	285.6	0.060
30	11.89	33.70	25.621	237.6	0.086
40	11.43	33.74	25.738	226.5	0.109
50	10.63	33.75	25.889	212.1	0.131
75	9.83	33.88	26.127	189.5	0.182
100	9.06	33.99	26.339	169.4	0.227
125	8.88	34.05	26.414	162.2	0.269
150	8.74	34.09	26.468	157.1	0.310
175	8.61	34.12	26.511	153.0	0.349
200	8.46	34.17	26.573	147.1	0.388

CALCOFI CRUISE 7505			87036		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 49.0N	118 40.0W	05/19/75	1140 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
907M	240	5KT		2	6
Z	T	S	SIGMA T	DT	DU
0	14.75	33.73	25.068	290.2	0.000
10	14.55	33.75	25.126	284.7	0.028
20	12.77	33.75	25.491	249.9	0.055
30	12.02	33.74	25.628	236.9	0.079
40	10.96	33.73	25.815	219.1	0.102
50	10.51	33.69	25.863	214.6	0.124
75	9.52	33.81	26.124	189.8	0.175
100	9.28	33.91	26.241	178.6	0.221
125	9.11	34.00	26.339	169.4	0.266
150	8.90	34.08	26.434	160.3	0.307
175	8.68	34.11	26.493	154.8	0.348
200	8.20	34.10	26.558	148.5	0.386

87040			RV DAVID STARR JORDAN		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 40.0N	118 58.0W	05/18/75	2315 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
925M	250	9KT	2	210	2 9
Z	T	S	SIGMA T	DT	DU
0	15.43	33.66	24.866	309.4	0.000
10	14.45	33.65	25.070	290.0	0.029
20	12.68	33.64	25.423	256.4	0.057
30	11.75	33.64	25.601	239.5	0.082
40	10.97	33.65	25.751	225.2	0.105
50	10.48	33.70	25.876	213.3	0.127
75	9.71	33.81	26.093	192.7	0.178
100	9.30	33.91	26.238	179.0	0.225
125	9.00	33.99	26.348	168.5	0.269
150	8.52	34.03	26.455	158.3	0.311
175	8.32	34.10	26.540	150.2	0.350
200	8.31	34.17	26.597	144.9	0.388
225	7.99	34.21	26.676	137.4	0.424
250	7.81	34.22	26.710	134.1	0.459
275	7.55	34.22	26.748	130.5	0.493
300	7.30	34.23	26.792	126.4	0.526
350	7.02	34.26	26.855	120.4	0.591
400	6.72	34.27	26.903	115.8	0.652
450	6.30	34.28	26.967	109.8	0.712
500	6.09	34.31	27.018	104.9	0.769
550	5.66	34.32	27.079	99.1	0.823
600	5.50	34.36	27.131	94.2	0.875
700	5.21	34.38	27.181	89.4	0.975
800	5.12	34.39	27.200	87.7	1.072

CALCOFI CRUISE 7505			87045		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 30.0N	119 19.0W	05/18/75	2020 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1664M	250	6KT	2	230	3 8
Z	T	S	SIGMA T	DT	DU
0	13.50	33.71	25.314	266.8	0.000
10	12.87	33.72	25.448	254.0	0.026
20	10.70	33.75	25.877	213.3	0.049
30	9.85	33.83	26.085	193.5	0.069
40	9.44	33.94	26.239	178.9	0.088
50	9.24	33.97	26.294	173.6	0.106
75	8.93	34.01	26.375	165.9	0.149
100	8.70	34.04	26.435	160.2	0.190
125	8.58	34.11	26.508	153.3	0.229
150	8.64	34.20	26.569	147.5	0.268
175	8.41	34.21	26.613	143.4	0.305
200	8.12	34.21	26.656	139.2	0.341
225	7.98	34.21	26.677	137.2	0.376
250	7.62	34.21	26.730	132.2	0.411
275	7.47	34.23	26.768	128.7	0.445
300	7.40	34.23	26.778	127.7	0.478
350	6.84	34.23	26.855	120.3	0.543
400	6.49	34.26	26.926	113.6	0.604
450	6.17	34.29	26.992	107.4	0.662
500	5.88	34.31	27.044	102.4	0.718
550	5.69	34.34	27.092	97.9	0.771
600	5.48	34.36	27.133	94.0	0.823
700	5.01	34.40	27.220	85.7	0.921
800	4.64	34.43	27.286	79.5	1.011
900	4.43	34.44	27.317	76.6	1.098
1000	4.27	34.46	27.350	73.4	1.182

67050		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 20.0N	119 39.5W	05/18/75	1750 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
75M	280	3KT	2	130 3 8	
Z	T	S	SIGMA T	DT	DD
0	12.45	33.82	25.607	238.9	0.000
10	11.35	33.83	25.822	218.5	0.022
20	10.45	33.86	26.006	201.0	0.043
30	9.82	33.89	26.137	188.6	0.063
40	9.38	33.93	26.240	178.7	0.081
50	9.14	34.01	26.342	169.1	0.099
64	9.05	34.04	26.379	165.5	0.122

CALCOFI CRUISE 7505		87060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 00.0N	120 21.5W	05/18/75	1157 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
854M	250	10KT			
Z	T	S	SIGMA T	DT	DD
0	12.50	33.68	25.489	250.1	0.000
10	12.38	33.68	25.512	247.9	0.024
20	12.32	33.69	25.532	246.1	0.049
30	12.25	33.69	25.545	244.8	0.074
40	12.15	33.69	25.564	243.0	0.098
50	11.90	33.70	25.619	237.7	0.122
75	11.48	33.73	25.721	228.1	0.181
100	11.36	33.74	25.750	225.3	0.238
125	9.80	33.77	26.047	197.1	0.292
150	9.10	34.06	26.387	164.8	0.338
175	8.65	34.11	26.497	154.3	0.378
200	8.20	34.07	26.535	150.7	0.417
225	7.49	34.02	26.600	144.6	0.455
250	7.28	34.03	26.638	141.0	0.492
275	6.85	34.06	26.721	133.1	0.527
300	6.72	34.10	26.770	128.5	0.561
350	6.48	34.19	26.872	118.7	0.625
400	6.21	34.23	26.939	112.4	0.685
450	5.96	34.26	26.995	107.1	0.743
500	5.61	34.29	27.062	100.7	0.798
550	5.37	34.32	27.121	95.2	0.850
600	5.15	34.34	27.156	91.8	0.900
700	4.84	34.38	27.224	85.4	0.996
760	4.69	34.41	27.264	81.5	1.051

87070		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 39.5N	121 03.0W	05/18/75	0708 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3926M	010	3KT			
Z	T	S	SIGMA T	DT	DD
0	12.42	33.43	25.312	267.0	0.000
10	12.40	33.43	25.316	266.7	0.026
20	12.38	33.43	25.319	266.3	0.053
30	12.38	33.44	25.327	265.5	0.080
40	12.34	33.44	25.335	264.8	0.106
50	12.04	33.45	25.400	258.6	0.132
75	10.90	33.45	25.608	238.8	0.195
100	9.71	33.56	25.898	211.3	0.252
125	9.17	33.71	26.103	191.8	0.303
150	8.80	33.83	26.255	177.3	0.349
175	8.47	33.90	26.361	167.3	0.393
200	7.92	33.94	26.475	156.4	0.435
225	7.42	33.97	26.571	147.4	0.473
250	7.09	33.98	26.625	142.2	0.511
275	6.84	33.98	26.659	139.0	0.547
300	6.69	34.02	26.711	134.1	0.582
350	6.46	34.10	26.804	125.2	0.649
400	5.96	34.11	26.876	118.3	0.712
450	5.76	34.14	26.925	113.7	0.773
500	5.78	34.23	26.994	107.2	0.832
550	5.48	34.26	27.054	101.5	0.887
600	5.28	34.31	27.117	95.5	0.940
700	4.88	34.34	27.188	88.8	1.039
800	4.55	34.40	27.272	80.8	1.132
900	4.25	34.44	27.336	74.7	1.218
1000	3.98	34.47	27.389	69.8	1.299

CALCOFI CRUISE 7505		87080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 19.5N	121 43.0W	05/18/75	0145 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4116M	340	16KT	2	330 8 8	
Z	T	S	SIGMA T	DT	DD
0	13.27	33.34	25.075	289.5	0.000
10	13.27	33.34	25.075	289.5	0.028
20	13.26	33.34	25.077	289.3	0.057
30	13.25	33.34	25.079	289.1	0.086
40	13.00	33.35	25.137	283.7	0.115
50	12.48	33.46	25.323	265.9	0.143
75	12.01	33.52	25.459	253.0	0.208
100	10.70	33.59	25.752	225.1	0.268
125	9.78	33.70	25.995	202.0	0.322
150	9.40	33.79	26.128	189.4	0.372
175	8.90	33.93	26.317	171.4	0.418
200	8.62	34.03	26.439	159.8	0.460
225	8.37	34.08	26.517	152.5	0.500
250	8.08	34.09	26.568	147.6	0.539
275	7.77	34.11	26.630	141.7	0.576
300	7.42	34.12	26.688	136.2	0.612
350	7.08	34.16	26.768	128.7	0.681
400	6.83	34.19	26.852	120.6	0.746
450	6.24	34.21	26.920	114.3	0.808
500	5.95	34.24	26.980	108.5	0.866
550	5.71	34.28	27.042	102.7	0.923
600	5.52	34.31	27.089	98.2	0.976
700	5.04	34.37	27.193	88.3	1.077
800	4.69	34.40	27.257	82.3	1.171
900	4.31	34.44	27.330	75.3	1.258
1000	3.97	34.48	27.397	68.9	1.339

RV DAVID STARR JORDAN		CALCOFI CRUISE 7505				87080									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
32 19.5N	121 43.0W	5/18/75	02:46 GMT		4116M	340	16KT	2	330 8 8						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	13.32	33.339	6.23					290.5	0	13.32	33.339	6.23	25.064	290.5	0.000
11	13.29	33.338	6.27					290.0	10	13.29	33.339	6.26	25.069	290.1	0.029
31	13.28	33.340	6.30					289.7	20	13.28	33.340	6.28	25.071	289.9	0.058
59	12.38	33.508	6.01					260.6	30	13.28	33.341	6.29	25.073	289.7	0.087
78	12.00	33.531	5.80					252.0	50	12.70	33.453	6.12	25.273	270.7	0.143
93	11.79	33.560	5.66					246.1	75	12.04	33.531	5.83	25.459	253.0	0.209
107	11.28	33.559	5.18					237.2	100	11.55	33.560	5.44	25.573	242.1	0.271
136	9.96	33.681	4.14					206.3	125	10.43	33.625	4.50	25.825	218.2	0.329
160	9.52	33.783	3.71					191.8	150	9.67	33.740	3.87	26.044	197.4	0.382
190	8.87	33.950	2.97					169.5	200	8.73	33.987	2.77	26.387	164.7	0.474
223	8.49	34.048	2.40					156.6	250	8.17	34.091	2.07	26.554	148.9	0.555
294	7.69	34.127	1.67					139.3	300	7.62	34.131	1.61	26.667	138.2	0.629
394	6.69	34.173	0.98					122.7	400	6.64	34.177	0.94	26.839	121.8	0.764
500	6.04	34.239	0.55					109.6	500	6.04	34.239	0.55	26.968	109.6	0.886
603	5.43	34.309	0.36					97.3	600	5.44	34.307	0.36	27.095	97.6	0.997
735	4.89	34.376	0.32					86.2	700	5.01	34.361	0.33	27.188	88.8	1.098
887	4.38	34.430	0.42					76.8	800	4.66	34.402	0.35	27.261	81.9	1.191
1048	3.88	34.471	0.57					68.7	1000	4.02	34.461	0.52	27.377	70.9	1.362

87090 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
31 59.0N	122 25.0W	05/17/75	2035 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4116M	340	20KT	2	340 8 5	
Z	T	S	SIGMA T	DT	DD
0	13.48	33.48	25.141	283.3	0.000
10	13.47	33.48	25.143	283.1	0.028
20	13.46	33.48	25.145	282.9	0.056
30	13.43	33.48	25.151	282.3	0.085
40	13.35	33.48	25.167	280.8	0.113
50	13.12	33.47	25.205	277.1	0.141
75	12.54	33.47	25.319	266.3	0.209
100	11.32	33.51	25.579	241.6	0.273
125	10.37	33.61	25.825	218.2	0.331
150	9.45	33.72	26.065	195.4	0.384
175	8.87	33.84	26.252	177.6	0.431
200	8.45	33.93	26.387	164.7	0.475
225	8.08	33.98	26.482	155.7	0.516
250	7.68	34.00	26.557	148.7	0.555
275	7.42	34.02	26.610	143.6	0.592
300	7.07	34.06	26.691	136.0	0.628
350	6.71	34.10	26.771	128.4	0.697
400	6.22	34.12	26.851	120.7	0.762
450	6.01	34.18	26.925	113.7	0.823
500	5.63	34.19	26.980	108.5	0.882
550	5.39	34.25	27.057	101.2	0.938
600	5.23	34.29	27.108	96.4	0.990
700	4.89	34.37	27.210	86.7	1.089
800	4.39	34.40	27.290	79.2	1.180
900	4.09	34.44	27.353	73.1	1.264
1000	3.79	34.48	27.416	67.2	1.343

5 A 88030 CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 41.5N	118 08.0W	05/20/75	0240 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
19M	270	10KT	2	230 2 2	
Z	T	S	SIGMA T	DT	DD
0	14.92	33.71	25.016	295.1	0.000
5	14.75	33.71	25.052	291.7	0.014
10	14.00	33.66	25.172	280.2	0.028
15	13.53	33.63	25.246	273.2	0.042

5 88031 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 40.5N	118 09.5W	05/20/75	0140 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
24M	260	11KT	2	240 2 2	
Z	T	S	SIGMA T	DT	DD
0	15.19	33.70	24.949	301.5	0.000
5	15.12	33.70	24.964	300.0	0.015
10	14.23	33.69	25.148	282.6	0.029
15	13.29	33.67	25.326	265.7	0.043
19	12.46	33.64	25.466	252.3	0.053

5 88032 CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 38.5N	118 13.5W	05/20/75	0030 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
37M	280	8KT	2	290 2 2	
Z	T	S	SIGMA T	DT	DD
0	15.37	33.69	24.902	306.0	0.000
10	15.12	33.66	24.934	303.0	0.030
20	12.85	33.62	25.375	261.0	0.058
30	11.51	33.63	25.638	236.0	0.083

5 88033 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 36.5N	118 17.5W	05/19/75	2306 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
205M	290	10KT	2	290 2 2	
Z	T	S	SIGMA T	DT	DD
0	15.60	33.71	24.866	309.4	0.000
10	14.95	33.69	24.994	297.2	0.030
20	14.15	33.65	25.134	283.9	0.059
30	11.92	33.62	25.554	244.0	0.085
40	11.58	33.60	25.601	239.4	0.110
50	10.62	33.69	25.844	216.4	0.133
75	9.37	33.84	26.172	185.2	0.183
100	9.29	33.90	26.232	179.6	0.229
125	9.01	33.96	26.323	170.8	0.273
150	8.67	34.04	26.439	159.8	0.315
163	8.52	34.09	26.502	153.9	0.336

5 88034 CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 34.5N	118 22.0W	05/19/75	2123 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
907M	280	9KT	2	270 2 1	
Z	T	S	SIGMA T	DT	DD
0	15.31	33.66	24.892	306.9	0.000
10	15.09	33.65	24.933	303.1	0.030
20	14.27	33.63	25.093	287.8	0.060
30	13.03	33.62	25.339	264.4	0.087
40	11.33	33.65	25.686	231.4	0.112
50	10.71	33.64	25.789	221.6	0.135
75	9.75	33.75	26.039	197.8	0.188
100	9.26	33.86	26.205	182.0	0.236
125	8.89	33.94	26.327	170.5	0.280
150	8.65	33.98	26.396	164.0	0.323
175	8.67	34.10	26.486	155.4	0.363
200	7.97	34.10	26.593	145.2	0.402

90027⁶

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 29.5N	117 45.5W	05/21/75	0252 GMT		
BOTTOM	WIND	SPEED	WEATHER		
47M	240	9KT	1		
DOMINANT WAVES					
	250	4	9		
Z	T	S	SIGMA T	DT	DD
0	15.50	33.70	24.881	308.0	0.000
10	14.45	33.69	25.101	287.0	0.029
20	12.21	33.66	25.530	246.3	0.056
30	11.36	33.69	25.712	229.0	0.080
40	10.94	33.73	25.818	218.8	0.102

CALCOFI CRUISE 7505

90028

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 28.5N	117 47.0W	05/21/75	0405 GMT		
BOTTOM	WIND	SPEED	WEATHER		
371M	230	6KT	1		
DOMINANT WAVES					
Z	T	S	SIGMA T	DT	DD
0	15.32	33.68	24.905	305.7	0.000
10	15.30	33.68	24.910	305.2	0.030
20	12.80	33.62	25.385	260.1	0.058
30	11.47	33.62	25.637	236.0	0.083
40	11.05	33.68	25.760	224.4	0.106
50	10.23	33.72	25.935	207.7	0.128
75	9.53	33.82	26.130	189.2	0.178
100	9.22	33.87	26.220	180.7	0.225
125	8.91	33.94	26.324	170.8	0.269
150	8.67	33.99	26.400	163.5	0.312
175	8.62	34.07	26.471	156.9	0.352
200	8.49	34.14	26.546	149.7	0.392

90029

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 27.0N	117 49.5W	05/21/75	0531 GMT		
BOTTOM	WIND	SPEED	WEATHER		
630M	140	3KT	1		
DOMINANT WAVES					
Z	T	S	SIGMA T	DT	DD
0	15.31	33.68	24.907	305.4	0.000
10	15.29	33.68	24.912	305.0	0.030
20	13.48	33.63	25.256	272.2	0.059
30	12.07	33.61	25.518	247.4	0.085
40	10.92	33.64	25.752	225.1	0.109
50	10.66	33.69	25.837	217.1	0.131
75	9.63	33.79	26.090	193.0	0.183
100	9.17	33.90	26.251	177.7	0.229
125	8.96	33.96	26.331	170.1	0.273
150	8.78	34.05	26.430	160.7	0.315
175	8.68	34.12	26.500	154.0	0.355
200	8.17	34.10	26.563	148.1	0.394

CALCOFI CRUISE 7505

90030

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 25.0N	117 53.5W	05/21/75	0722 GMT		
BOTTOM	WIND	SPEED	WEATHER		
648M	330	6KT	1		
DOMINANT WAVES					
Z	T	S	SIGMA T	DT	DD
0	15.56	33.67	24.844	311.5	0.000
10	14.85	33.67	25.000	296.6	0.030
20	13.40	33.61	25.257	272.2	0.058
30	11.62	33.56	25.563	243.1	0.084
40	10.82	33.56	25.708	229.3	0.108
50	10.56	33.60	25.784	222.0	0.131
75	10.11	33.71	25.948	206.5	0.185
100	9.49	33.85	26.160	186.3	0.234
125	9.11	33.93	26.284	174.6	0.280
150	8.82	33.97	26.361	167.2	0.323
175	8.52	34.01	26.439	159.8	0.365
200	8.24	34.07	26.529	151.3	0.405

90031

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 23.0N	117 57.5W	05/21/75	0900 GMT		
BOTTOM	WIND	SPEED	WEATHER		
371M	100	10KT	1		
DOMINANT WAVES					
Z	T	S	SIGMA T	DT	DD
0	15.12	33.64	24.918	304.4	0.000
10	15.08	33.64	24.927	303.8	0.030
20	13.47	33.64	25.266	271.3	0.059
30	13.00	33.63	25.353	263.1	0.085
40	11.85	33.56	25.520	247.2	0.111
50	11.39	33.54	25.590	240.5	0.136
75	10.42	33.64	25.840	216.8	0.193
100	9.75	33.77	26.055	196.3	0.245
125	9.27	33.91	26.243	178.5	0.293
150	8.88	34.00	26.375	165.9	0.336
175	8.53	34.02	26.445	159.2	0.378
200	8.17	34.06	26.531	151.1	0.417

CALCOFI CRUISE 7505

90032

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 21.0N	118 01.5W	05/21/75	1050 GMT		
BOTTOM	WIND	SPEED	WEATHER		
750M	320	4KT	1		
DOMINANT WAVES					
Z	T	S	SIGMA T	DT	DD
0	14.51	33.62	25.034	293.4	0.000
10	14.50	33.62	25.037	293.2	0.029
20	14.47	33.62	25.043	292.6	0.058
30	12.75	33.56	25.348	263.5	0.086
40	12.00	33.54	25.477	251.3	0.112
50	11.62	33.56	25.563	243.1	0.137
75	10.15	33.61	25.863	214.6	0.194
100	9.60	33.82	26.119	190.3	0.245
125	9.23	33.91	26.249	177.9	0.292
150	8.82	34.00	26.385	165.0	0.335
175	8.34	34.02	26.474	156.5	0.376
200	8.11	34.07	26.548	149.5	0.415

90070		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				90080		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 04.5N	120 38.5W	05/22/75	0855 GMT		31 44.5N	121 19.5W	05/22/75	1335 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
4116M	320	15KT	2	150 7 6		3737M	330	16KT	2	310 7 7		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	
0	17.60	33.38	25.238	274.0	0.000	0	13.42	33.37	25.068	290.2	0.000	
10	17.59	33.38	25.240	273.8	0.027	10	13.42	33.37	25.068	290.2	0.029	
20	17.59	33.38	25.240	273.8	0.054	20	13.42	33.37	25.068	290.2	0.058	
30	17.58	33.38	25.242	273.6	0.082	30	13.41	33.37	25.070	290.0	0.087	
40	17.57	33.38	25.244	273.5	0.109	40	12.66	33.37	25.219	275.8	0.115	
50	12.40	33.39	25.285	269.6	0.136	50	12.54	33.40	25.265	271.4	0.143	
75	11.85	33.41	25.404	258.2	0.203	75	12.32	33.49	25.377	260.8	0.209	
100	11.46	33.56	25.593	240.3	0.266	100	11.91	33.58	25.525	246.7	0.273	
125	10.57	33.59	25.775	222.9	0.324	125	10.72	33.60	25.757	224.7	0.333	
150	9.71	33.76	26.054	196.5	0.377	150	9.48	33.73	26.068	195.1	0.386	
175	5.09	33.88	26.248	178.0	0.425	175	9.16	33.90	26.253	177.6	0.434	
200	8.65	33.98	26.396	164.0	0.469	200	8.78	34.00	26.391	164.4	0.477	
225	8.32	34.01	26.470	156.9	0.510	225	8.46	34.04	26.472	156.7	0.518	
250	7.76	34.02	26.561	148.3	0.549	250	8.14	34.06	26.536	150.6	0.558	
275	7.34	34.02	26.621	142.5	0.586	275	7.86	34.09	26.601	144.5	0.596	
300	6.87	34.03	26.694	135.6	0.622	300	7.55	34.10	26.654	139.4	0.633	
350	6.37	34.07	26.792	126.3	0.690	350	6.91	34.16	26.791	126.4	0.702	
400	5.95	34.13	26.893	116.7	0.753	400	6.60	34.22	26.880	118.0	0.765	
450	5.71	34.21	26.986	107.9	0.812	450	6.14	34.23	26.948	111.5	0.826	
500	5.74	34.26	27.022	104.5	0.868	500	5.86	34.25	27.000	106.7	0.884	
550	5.52	34.28	27.065	100.4	0.923	550	5.57	34.28	27.059	101.0	0.939	
600	5.29	34.32	27.124	94.8	0.975	600	5.34	34.32	27.118	95.4	0.991	
700	4.92	34.37	27.207	87.0	1.074	700	4.89	34.37	27.210	86.7	1.090	
800	4.60	34.41	27.274	80.6	1.165	800	4.52	34.42	27.291	79.0	1.181	
900	4.26	34.44	27.335	74.8	1.252	900	4.21	34.45	27.349	73.6	1.266	
1000	3.93	34.47	27.394	69.3	1.333	1000	3.97	34.48	27.397	68.9	1.346	

RV DAVID STARR JORDAN		CALCOFI CRUISE 7505				90090									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
31 24.0N	122 01.0W	5/22/75	1955		4116M	330	14KT	1	320 6 8						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
3	13.85	33.261	6.08					306.5	0	13.85	33.261	6.08	24.896	306.5	0.000
11	13.80	33.243	6.03					306.9	10	13.80	33.247	6.03	24.893	306.8	0.030
30	13.73	33.393	6.17					294.5	20	13.75	33.304	6.08	24.947	301.7	0.061
58	13.73	33.466	6.16					289.2	30	13.73	33.393	6.17	25.023	294.5	0.091
77	12.25	33.261	5.92					276.4	50	13.73	33.446	6.16	25.062	290.7	0.149
91	11.78	33.310	5.84					264.3	75	12.41	33.280	5.94	25.197	278.0	0.221
105	11.69	33.433	5.63					253.7	100	11.71	33.387	5.71	25.410	257.6	0.288
133	10.55	33.628	4.95					219.8	125	10.93	33.583	5.17	25.705	229.6	0.350
156	9.71	33.684	4.15					202.1	150	9.91	33.671	4.35	25.949	206.4	0.405
185	8.87	33.873	3.55					175.2	200	8.59	33.930	3.37	26.365	166.9	0.500
219	8.31	33.975	3.20					159.4	250	7.81	34.017	2.79	26.550	149.4	0.581
289	7.26	34.040	2.31					140.0	300	7.12	34.048	2.23	26.673	137.7	0.655
389	6.24	34.111	1.67					121.7	400	6.15	34.124	1.54	26.862	119.7	0.789
495	5.62	34.238	0.55					104.8	500	5.59	34.243	0.54	27.026	104.2	0.907
601	5.21	34.327	0.43					93.4	600	5.21	34.327	0.43	27.138	93.5	1.012
734	4.64	34.402	0.34					81.6	700	4.78	34.386	0.36	27.235	84.3	1.108
885	4.19	34.456	0.75					72.9	800	4.43	34.428	0.51	27.308	77.4	1.197
1043	3.72	34.496	0.68					65.3	1000	3.84	34.486	0.69	27.415	67.2	1.359

90090		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				5 5 91026		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 24.0N	122 01.0W	05/22/75	1855 GMT		33 14.5N	117 27.5W	05/24/75	1615 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
4116M	330	14KT	1	320 10 9		17M	340	3KT	2	240 2 2		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	
0	13.83	33.24	24.884	307.7	0.000	0	15.58	33.71	24.871	308.9	0.000	
10	13.79	33.24	24.893	306.9	0.030	5	15.51	33.71	24.886	307.5	0.015	
20	13.50	33.23	24.944	302.0	0.061	10	15.25	33.71	24.944	302.0	0.030	
30	13.51	33.29	24.988	297.8	0.091	13	14.33	33.69	25.126	284.6	0.039	
40	13.68	33.35	25.000	296.7	0.121							
50	13.73	33.45	25.067	290.3	0.150							
75	12.75	33.42	25.240	273.8	0.221							
100	11.65	33.42	25.449	253.9	0.288							
125	10.66	33.54	25.720	228.1	0.348							
150	9.74	33.60	25.924	208.8	0.404							
175	9.10	33.76	26.153	187.0	0.454							
200	8.57	33.91	26.353	168.0	0.499							
225	8.22	33.96	26.446	159.2	0.541							
250	7.83	33.98	26.519	152.2	0.581							
275	7.59	34.00	26.570	147.4	0.620							
300	7.18	34.01	26.636	141.2	0.657							
350	6.63	34.05	26.742	131.1	0.727							
400	6.19	34.10	26.839	121.9	0.793							
450	5.84	34.15	26.923	113.9	0.855							
500	5.55	34.19	26.990	107.5	0.913							
550	5.42	34.25	27.053	101.6	0.969							
600	5.21	34.29	27.110	96.2	1.022							
700	4.74	34.36	27.219	85.8	1.120							
800	4.47	34.42	27.297	78.5	1.210							
900	4.15	34.45	27.355	73.0	1.294							
1000	3.85	34.48	27.410	67.8	1.373							

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91026

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 14.0N	117 29.0W	05/24/75	1515 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
60M	250	5KT	2	250 2 2

Z	T	S	SIGMA T	DT	DU
0	16.06	33.72	24.770	318.5	0.000
10	15.61	33.71	24.864	309.6	0.031
20	17.40	33.68	25.509	248.3	0.059
30	11.11	33.67	25.741	226.1	0.083
40	10.55	33.68	25.848	215.9	0.105
50	10.22	33.71	25.929	208.3	0.126

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91028

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 11.5N	117 34.0W	05/24/75	1351 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
759M	090	7KT	2	

Z	T	S	SIGMA T	DT	DD
0	15.37	33.71	24.917	304.5	0.000
10	15.35	33.71	24.922	304.1	0.030
20	11.30	33.62	25.668	233.1	0.057
30	10.15	33.71	25.941	207.2	0.079
40	9.83	33.76	26.034	198.4	0.099
50	9.64	33.83	26.120	190.2	0.119
75	9.42	33.87	26.187	183.8	0.166
100	9.22	33.91	26.251	177.7	0.211
125	9.06	33.96	26.315	171.6	0.256
150	8.93	34.00	26.367	166.7	0.299
175	8.78	34.07	26.446	159.2	0.340
200	8.33	34.05	26.500	154.1	0.380
213	8.59	34.15	26.538	150.5	0.400

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91029

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 09.5N	117 38.0W	05/24/75	1221 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
815M	050	5KT	2	

Z	T	S	SIGMA T	DT	DU
0	15.62	33.72	24.869	309.1	0.000
10	15.34	33.72	24.931	303.2	0.030
20	11.23	33.63	25.689	231.1	0.057
30	10.43	33.65	25.846	216.2	0.079
40	9.71	33.71	26.015	200.2	0.100
50	9.58	33.80	26.106	191.5	0.120
75	9.33	33.90	26.225	180.2	0.167
100	9.13	33.92	26.273	175.6	0.212
125	8.92	34.00	26.369	166.5	0.255
150	8.77	34.03	26.416	162.0	0.297
175	8.58	34.09	26.492	154.8	0.337
200	8.43	34.12	26.539	150.4	0.376
212	8.39	34.14	26.561	148.3	0.394

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91030

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 07.5N	117 42.0W	05/24/75	1037 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
833M	350	1KT		

Z	T	S	SIGMA T	DT	DD
0	15.38	33.72	24.923	304.0	0.000
10	15.33	33.72	24.934	303.0	0.030
20	11.5	33.68	25.632	236.5	0.057
30	10.44	33.68	25.868	214.1	0.079
40	10.01	33.74	25.988	202.7	0.100
50	9.68	33.79	26.082	193.8	0.120
75	9.14	33.88	26.240	178.7	0.167
100	8.88	33.97	26.352	168.1	0.211
125	8.92	34.09	26.439	159.8	0.253
150	8.67	34.10	26.486	155.4	0.293
175	8.63	34.14	26.524	151.8	0.332
200	8.59	34.19	26.569	147.5	0.370
213	8.51	34.21	26.597	144.8	0.390

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93026

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 57.0N	117 17.5W	05/25/75	2140 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
32M	210	5KT	1	110 2 2

Z	T	S	SIGMA T	DT	DU
0	16.73	33.72	24.616	333.2	0.000
5	14.94	33.69	24.996	297.0	0.015
10	14.54	33.66	25.059	291.0	0.030
15	14.01	33.66	25.171	280.4	0.044
20	13.96	33.67	25.189	278.7	0.058
26	13.67	33.68	25.256	272.3	0.075

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93026

CALCOFI CRUISE 7505

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 57.0N	117 18.5W	05/25/75	2246 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
65M	240	6KT	1	270 2 2

Z	T	S	SIGMA T	DT	DD
0	16.51	33.71	24.660	329.0	0.000
10	14.68	33.67	25.037	293.1	0.031
20	12.44	33.63	25.462	252.7	0.058
30	12.23	33.63	25.503	248.8	0.083
40	11.25	33.65	25.701	230.0	0.107
50	10.67	33.68	25.828	218.0	0.130

93028

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 54.5N	117 22.0W	05/26/75	0012 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
602M	280	6KT	1	220 2 4

Z	T	S	SIGMA T	DT	DU
0	16.95	33.67	24.527	341.7	0.000
10	14.92	33.57	24.908	305.4	0.032
20	13.34	33.53	25.208	276.9	0.061
30	11.85	33.52	25.489	250.1	0.087
40	10.75	33.56	25.720	228.2	0.111
50	10.23	33.62	25.857	215.1	0.134
75	9.46	33.81	26.134	188.8	0.185
100	9.22	33.91	26.251	177.7	0.231
125	9.02	33.96	26.322	171.0	0.275
150	8.76	34.02	26.410	162.6	0.317
175	8.71	34.08	26.465	157.4	0.358
200	8.59	34.14	26.530	151.2	0.398
212	8.50	34.18	26.575	146.9	0.416

CALCOFI CRUISE 7505

93029

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 52.5N	117 26.5W	05/26/75	0150 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
621M	270	6KT	2	230 2 3

Z	T	S	SIGMA T	DT	DD
0	16.22	33.69	24.711	324.2	0.000
10	15.34	33.65	24.878	308.3	0.031
20	12.55	33.58	25.402	258.4	0.060
30	11.21	33.59	25.661	233.7	0.084
40	10.42	33.64	25.840	216.8	0.107
50	10.14	33.66	25.904	210.7	0.128
75	9.43	33.83	26.154	186.9	0.178
100	9.09	33.93	26.287	174.3	0.224
125	8.87	34.01	26.385	165.0	0.267
150	8.63	34.06	26.461	157.7	0.308
175	8.55	34.15	26.544	149.9	0.347
200	8.32	34.20	26.619	142.8	0.384

93030 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 51.0N	117 31.5W	05/26/75	0325 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
888M	250	6KT			
Z	T	S	SIGMA T	DT	DD
0	16.77	33.73	24.615	333.4	0.000
10	16.32	33.71	24.703	324.9	0.032
20	14.90	33.66	24.982	298.4	0.064
30	11.69	33.64	25.612	238.4	0.091
40	10.12	33.75	25.977	203.7	0.113
50	9.72	33.84	26.114	190.7	0.133
75	9.32	33.95	26.266	176.3	0.179
100	8.93	34.05	26.406	162.9	0.222
125	8.75	34.09	26.466	157.3	0.262
150	8.60	34.14	26.528	151.3	0.301
175	8.29	34.14	26.576	146.8	0.339
200	8.03	34.18	26.646	140.2	0.376

CALCOFI CRUISE 7505 93040

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 30.0N	118 11.5W	05/24/75	0433 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1756M	300	12KT			
Z	T	S	SIGMA T	DT	DD
0	14.38	33.56	25.016	295.1	0.000
10	14.30	33.55	25.025	294.3	0.029
20	14.12	33.55	25.063	290.7	0.058
30	13.51	33.54	25.181	279.4	0.087
40	12.20	33.52	25.423	256.4	0.114
50	11.84	33.50	25.476	251.4	0.139
75	10.92	33.50	25.644	235.5	0.200
100	9.90	33.62	25.913	209.8	0.257
125	9.33	33.86	26.194	183.1	0.306
150	8.98	33.94	26.313	171.8	0.351
175	8.83	34.04	26.414	162.2	0.394
200	8.44	34.09	26.514	152.7	0.434
225	8.17	34.09	26.555	148.8	0.473
250	7.74	34.08	26.611	143.5	0.510
275	7.38	34.10	26.678	137.1	0.546
300	7.05	34.10	26.725	132.7	0.581
350	6.80	34.20	26.837	122.0	0.648
400	6.51	34.23	26.900	116.1	0.710
450	6.06	34.22	26.950	111.3	0.770
500	5.87	34.24	26.990	107.5	0.828
550	5.56	34.28	27.060	100.9	0.883
600	5.28	34.30	27.110	96.2	0.936
700	4.91	34.39	27.224	85.4	1.034
800	4.53	34.42	27.290	79.1	1.124
900	4.22	34.46	27.355	72.9	1.204
1000	3.96	34.48	27.399	68.8	1.288

RV DAVID STARR JORDAN CALCOFI CRUISE 7505 93050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 10.0N	118 53.0W	5/23/75	2348 GMT	1479M	320	15KT	1	320 3 5							
Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	13.28	33.724	6.29					261.5	0	13.28	33.724	6.29	25.369	261.5	0.000
10	13.06	33.722	6.26					257.5	10	13.06	33.722	6.26	25.412	257.5	0.025
29	12.80	33.718	6.30					252.9	20	12.95	33.722	6.28	25.432	255.5	0.051
58	10.90	33.700	4.47					220.3	30	12.74	33.716	6.25	25.468	252.1	0.077
77	9.81	33.819	3.42					193.7	50	11.50	33.692	5.07	25.687	231.3	0.125
91	9.45	33.884	2.99					183.2	75	9.90	33.806	3.51	26.056	196.2	0.179
105	9.29	33.939	2.79					176.7	100	9.33	33.921	2.84	26.240	178.7	0.226
134	8.94	34.022	2.44					165.2	125	9.04	33.999	2.55	26.348	168.5	0.270
157	8.68	34.082	2.08					156.9	150	8.76	34.069	2.16	26.446	159.2	0.312
186	8.09	34.047	2.44					150.9	200	8.09	34.112	2.16	26.583	146.2	0.390
219	8.10	34.199	1.66					139.7	250	7.89	34.233	1.28	26.709	134.3	0.462
291	7.50	34.218	1.05					130.0	300	7.42	34.221	1.00	26.766	128.8	0.530
391	6.76	34.256	0.66					117.3	400	6.69	34.260	0.63	26.898	116.3	0.658
495	6.10	34.297	0.39					106.0	500	6.07	34.299	0.38	27.011	105.6	0.775
601	5.53	34.334	0.30					96.5	600	5.53	34.334	0.30	27.105	96.6	0.883
734	4.78	34.406	0.29					82.8	700	4.96	34.388	0.29	27.216	86.2	0.983
886	4.23	34.452	0.47					73.6	800	4.51	34.429	0.35	27.299	78.3	1.073
1047	3.80	34.495	0.59					66.1	1000	3.90	34.483	0.56	27.406	68.1	1.236

93050 RV DAVID STARR JORDAN CALCOFI CRUISE 7505 93060

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 10.0N	118 53.0W	05/23/75	2235 GMT	31 50.0N	119 34.0W	05/23/75	1653 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
1479M	320	15KT	1	320 3 5	2227M	340	12KT	2	340 7 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	12.93	33.71	25.428	255.9	0.000	0	14.15	33.49	25.010	295.7	0.000
10	12.86	33.71	25.442	254.6	0.025	10	14.14	33.49	25.013	295.5	0.029
20	12.79	33.71	25.456	253.3	0.050	20	12.90	33.49	25.264	271.5	0.057
30	12.57	33.70	25.491	249.9	0.076	30	12.70	33.51	25.319	266.3	0.084
40	11.20	33.69	25.741	226.2	0.100	40	12.55	33.57	25.395	259.1	0.111
50	10.82	33.69	25.809	219.7	0.122	50	11.75	33.58	25.554	243.9	0.136
75	9.87	33.77	26.035	198.3	0.175	75	10.38	33.53	25.761	224.2	0.195
100	9.28	33.93	26.257	177.2	0.222	100	9.62	33.66	25.991	202.4	0.249
125	8.88	34.01	26.383	165.2	0.265	125	8.78	33.84	26.266	176.3	0.297
150	8.66	34.06	26.457	158.2	0.306	150	8.77	34.01	26.400	163.5	0.340
175	8.13	34.05	26.530	151.2	0.346	175	8.52	34.05	26.470	156.9	0.381
200	7.94	34.08	26.582	146.3	0.384	200	8.25	34.09	26.543	150.0	0.420
225	8.13	34.21	26.655	139.3	0.420	225	7.82	34.10	26.615	143.2	0.457
250	7.97	34.23	26.695	135.6	0.456	250	7.55	34.10	26.654	139.4	0.494
275	7.53	34.20	26.735	131.7	0.490	275	7.32	34.11	26.695	135.6	0.529
300	7.32	34.22	26.781	127.4	0.524	300	7.12	34.12	26.731	132.2	0.564
350	7.05	34.24	26.835	122.3	0.569	350	6.84	34.17	26.808	124.8	0.630
400	6.70	34.26	26.898	116.3	0.651	400	6.21	34.16	26.884	117.6	0.694
450	6.44	34.27	26.941	112.2	0.712	450	6.00	34.22	26.958	110.6	0.754
500	6.03	34.28	27.002	106.5	0.770	500	5.95	34.28	27.012	105.5	0.811
550	5.80	34.31	27.054	101.5	0.825	550	5.71	34.31	27.065	100.4	0.866
600	5.49	34.33	27.108	96.4	0.878	600	5.41	34.33	27.118	95.4	0.918
700	4.99	34.39	27.215	86.3	0.977	700	4.92	34.37	27.207	87.0	1.017
800	4.63	34.41	27.271	80.9	1.069	800	4.54	34.41	27.281	80.0	1.109
900	4.29	34.45	27.340	74.4	1.155	900	4.26	34.45	27.343	74.1	1.194
1000	3.97	34.48	27.397	68.9	1.238	1000	4.01	34.47	27.386	70.1	1.275

95028 RV DAVID STARR JORDAN
 LATITUDE 32 37.0N LONGITUDE 117 10.5W MO/DAY/YR 05/26/75 START TIME 1317 GMT
 BOTTOM 19M WIND 250 SPEED 4KT WEATHER 2 DOMINANT WAVES 210 1 2
 Z T S SIGMA T DT DU
 0 15.73 33.75 24.868 309.2 0.000
 5 15.66 33.75 24.884 307.7 0.015
 10 13.30 33.67 25.324 265.9 0.029
 15 10.76 33.63 25.773 223.1 0.042

CALCOFI CRUISE 7505 95029
 LATITUDE 32 35.0N LONGITUDE 117 14.5W MO/DAY/YR 05/26/75 START TIME 1145 GMT
 BOTTOM 47M WIND 200 SPEED 5KT WEATHER 2 DOMINANT WAVES 260 2 4
 Z T S SIGMA T DT DU
 0 15.75 33.66 24.794 316.2 0.000
 10 13.75 33.64 25.209 276.8 0.029
 20 10.21 33.71 25.930 208.1 0.053
 30 9.95 33.78 26.029 198.8 0.074
 40 9.82 33.80 26.067 195.2 0.094
 46 9.79 33.83 26.095 192.5 0.105

95030 RV DAVID STARR JORDAN
 LATITUDE 32 33.0N LONGITUDE 117 18.5W MO/DAY/YR 05/26/75 START TIME 1015 GMT
 BOTTOM 168M WIND 280 SPEED 4KT WEATHER 2 DOMINANT WAVES 210 1 2
 Z T S SIGMA T DT DU
 0 15.55 33.66 24.839 312.0 0.000
 10 14.60 33.59 24.992 297.4 0.030
 20 11.92 33.45 25.422 256.5 0.058
 30 11.12 33.53 25.631 236.6 0.082
 40 10.72 33.61 25.764 224.0 0.106
 50 10.43 33.65 25.846 216.2 0.128
 75 9.81 33.79 26.060 195.8 0.179
 100 9.43 33.89 26.201 182.4 0.227
 125 9.16 33.97 26.307 172.4 0.272
 150 8.95 34.04 26.395 164.0 0.315

CALCOFI CRUISE 7505 95031
 LATITUDE 32 31.0N LONGITUDE 117 22.5W MO/DAY/YR 05/26/75 START TIME 0819 GMT
 BOTTOM 685M WIND 210 SPEED 6KT WEATHER 2 DOMINANT WAVES 260 2 4
 Z T S SIGMA T DT DU
 0 14.83 33.64 24.981 298.4 0.000
 10 13.98 33.63 25.154 282.0 0.029
 20 13.07 33.62 25.331 265.2 0.056
 30 13.05 33.67 25.374 261.1 0.082
 40 11.74 33.59 25.564 243.0 0.108
 50 11.23 33.55 25.627 237.0 0.132
 75 9.94 33.61 25.899 211.2 0.188
 100 9.48 33.83 26.146 187.7 0.238
 125 9.17 33.95 26.290 174.0 0.284
 150 8.85 34.06 26.427 161.0 0.327
 175 8.77 34.09 26.463 157.6 0.367
 200 8.74 34.17 26.530 151.2 0.407
 212 8.30 34.14 26.575 147.0 0.425

95032 RV DAVID STARR JORDAN
 LATITUDE 32 29.0N LONGITUDE 117 27.0W MO/DAY/YR 05/26/75 START TIME 0632 GMT
 BOTTOM 1128M WIND 220 SPEED 6KT WEATHER 2 DOMINANT WAVES 260 2 4
 Z T S SIGMA T DT DU
 0 14.59 33.63 25.025 294.3 0.000
 10 13.85 33.62 25.173 280.2 0.028
 20 13.33 33.65 25.302 267.9 0.056
 30 12.61 33.66 25.453 253.6 0.082
 40 11.23 33.54 25.619 237.8 0.106
 50 10.86 33.50 25.654 234.4 0.130
 75 9.88 33.73 26.002 201.4 0.185
 100 9.32 33.91 26.235 179.3 0.233
 125 9.06 33.97 26.323 170.8 0.277
 150 8.88 34.06 26.422 161.4 0.320
 175 8.78 34.14 26.500 154.0 0.360
 200 8.81 34.21 26.550 149.3 0.399

CALCOFI CRUISE 7505 97032
 LATITUDE 32 12.0N LONGITUDE 117 15.0W MO/DAY/YR 05/26/75 START TIME 1915 GMT
 BOTTOM 556M WIND 250 SPEED 5KT WEATHER 2 DOMINANT WAVES 260 2 4
 Z T S SIGMA T DT DU
 0 15.57 33.64 24.819 313.9 0.000
 10 15.20 33.61 24.878 308.3 0.031
 20 13.05 33.55 25.281 269.9 0.060
 30 11.62 33.52 25.532 246.0 0.085
 40 10.83 33.55 25.698 230.2 0.109
 50 10.15 33.65 25.894 211.6 0.132
 75 9.56 33.84 26.141 188.2 0.182
 100 9.19 33.96 26.295 173.6 0.227
 125 9.12 34.08 26.399 163.6 0.270
 150 9.05 34.14 26.458 158.1 0.311
 175 9.06 34.18 26.487 155.3 0.351
 200 8.94 34.25 26.561 148.2 0.390
 225 8.82 34.27 26.596 145.0 0.428
 250 8.78 34.30 26.625 142.1 0.465
 275 8.59 34.31 26.663 138.6 0.501
 300 8.18 34.32 26.734 131.9 0.536
 350 7.78 34.33 26.801 125.5 0.603
 400 7.46 34.33 26.847 121.1 0.668
 450 6.79 34.31 26.925 113.7 0.730
 500 6.54 34.32 26.967 109.8 0.789

97070		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				97080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
30 55.0N	119 50.0W	05/27/75	1616 GMT			30 35.5N	120 31.0W	05/27/75	2046 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3737M	330	14KT	2	300 3 4			4116M	310	12KT	0	300 4 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	14.94	33.52	24.865	309.5	0.000	0	14.57	33.38	24.837	312.2	0.000		
10	14.65	33.52	24.928	303.5	0.030	10	14.20	33.38	24.915	304.7	0.030		
20	14.49	33.51	24.954	301.0	0.060	20	13.85	33.37	24.980	298.5	0.061		
30	14.20	33.51	25.015	295.2	0.090	30	13.76	33.37	24.999	296.8	0.090		
40	13.34	33.48	25.169	280.6	0.119	40	13.71	33.39	25.024	294.3	0.120		
50	12.65	33.45	25.282	269.8	0.147	50	13.59	33.41	25.064	290.5	0.149		
75	11.84	33.46	25.445	254.3	0.213	75	13.00	33.46	25.221	275.6	0.221		
100	11.00	33.50	25.629	236.8	0.275	100	11.40	33.46	25.526	246.6	0.286		
125	10.13	33.60	25.859	215.0	0.332	125	10.15	33.56	25.824	218.3	0.345		
150	9.55	33.68	26.018	199.9	0.384	150	9.45	33.72	26.065	195.4	0.398		
175	9.08	33.85	26.226	180.1	0.433	175	8.88	33.88	26.282	174.8	0.445		
200	8.60	33.91	26.349	168.4	0.477	200	8.32	33.94	26.415	162.1	0.488		
225	8.13	33.96	26.459	157.9	0.519	225	7.93	33.99	26.513	152.9	0.528		
250	7.73	34.00	26.550	149.3	0.558	250	7.70	34.02	26.570	147.4	0.566		
275	7.26	34.01	26.625	142.2	0.596	275	7.23	34.02	26.637	141.1	0.604		
300	6.93	34.03	26.686	136.4	0.632	300	6.82	34.03	26.701	135.0	0.639		
350	6.37	34.08	26.800	125.6	0.699	350	6.43	34.08	26.792	126.3	0.707		
400	6.11	34.15	26.889	117.2	0.763	400	6.07	34.14	26.886	117.4	0.770		
450	5.90	34.19	26.947	111.6	0.823	450	5.78	34.20	26.970	109.5	0.830		
500	5.73	34.23	27.000	106.6	0.880	500	5.37	34.21	27.028	104.0	0.886		
550	5.38	34.27	27.074	99.6	0.935	550	5.25	34.26	27.082	98.9	0.940		
600	5.07	34.30	27.134	93.9	0.987	600	5.15	34.33	27.149	92.5	0.991		
700	4.67	34.37	27.235	84.3	1.083	700	4.82	34.38	27.226	85.2	1.087		
800	4.34	34.41	27.303	77.9	1.172	800	4.46	34.42	27.298	78.4	1.177		
900	4.11	34.45	27.359	72.6	1.255	900	4.15	34.45	27.355	73.0	1.261		
1000	3.89	34.49	27.414	67.4	1.334	1000	3.84	34.49	27.419	66.9	1.340		

97090		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				100030			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
30 16.0N	121 10.0W	05/28/75	0127 GMT			31 40.5N	116 46.5W	05/29/75	0947 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
4021M	320	20KT	0	310 4 7			427M	300	4KT	0	300 4 7		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	15.24	33.47	24.762	319.3	0.000	0	13.54	33.75	25.336	264.6	0.000		
10	15.22	33.47	24.766	318.9	0.031	10	12.65	33.69	25.468	252.1	0.025		
20	15.20	33.47	24.771	318.5	0.063	20	10.83	33.73	25.838	216.9	0.049		
30	15.17	33.47	24.777	317.9	0.095	30	9.91	33.78	26.036	198.1	0.070		
40	15.01	33.48	24.819	313.9	0.127	40	9.68	33.85	26.129	189.3	0.089		
50	14.96	33.52	24.861	309.9	0.158	50	9.60	33.88	26.165	185.8	0.108		
75	14.94	33.56	24.896	306.5	0.236	75	9.48	33.93	26.224	180.3	0.154		
100	14.97	33.62	24.936	302.8	0.313	100	9.42	33.98	26.273	175.6	0.199		
125	13.60	33.52	25.147	282.6	0.386	125	9.37	34.00	26.297	173.4	0.243		
150	11.99	33.46	25.417	257.0	0.455	150	9.22	34.04	26.352	168.1	0.287		
175	10.83	33.50	25.660	233.9	0.517	175	9.09	34.09	26.412	162.4	0.329		
200	9.63	33.62	25.958	205.6	0.573	200	9.03	34.13	26.453	158.5	0.370		
225	8.94	33.81	26.218	180.9	0.622	225	8.89	34.19	26.522	152.0	0.410		
250	8.64	33.91	26.342	169.0	0.667	250	8.71	34.25	26.597	144.8	0.448		
275	8.20	33.96	26.449	158.9	0.709	275	8.59	34.28	26.640	140.8	0.485		
300	7.84	33.99	26.526	151.6	0.749	300	8.48	34.29	26.664	138.5	0.521		
350	6.99	34.04	26.686	136.4	0.824	350	7.97	34.32	26.765	128.9	0.591		
400	6.61	34.11	26.792	126.3	0.893								
450	6.18	34.15	26.880	118.0	0.957								
500	5.82	34.19	26.957	110.7	1.017								
550	5.55	34.24	27.030	103.8	1.074								
600	5.29	34.29	27.100	97.1	1.128								
700	4.87	34.37	27.212	86.5	1.227								
800	4.49	34.41	27.287	79.4	1.318								
900	4.17	34.45	27.353	73.2	1.402								
1000	3.90	34.48	27.405	68.2	1.482								

103040 RV DAVID STARR JORDAN
LATITUDE 30 46.0N LONGITUDE 117 04.5W
MO/DAY/YR 05/30/75 START TIME 0006 GMT
BOTTOM 1949M WIND 300 SPEED 6KT WEATHER 2 DOMINANT WAVES 290 4 7

CALCOFI CRUISE 7505 103050
LATITUDE 30 26.0N LONGITUDE 117 45.0W
MO/DAY/YR 05/30/75 START TIME 0530 GMT
BOTTOM 2790M WIND 260 SPEED 4KT WEATHER 2 DOMINANT WAVES 330 3 7

103060 RV DAVID STARR JORDAN
LATITUDE 30 06.0N LONGITUDE 118 25.0W
MO/DAY/YR 05/30/75 START TIME 1011 GMT
BOTTOM 2980M WIND 210 SPEED 3KT WEATHER 2 DOMINANT WAVES 240 3 7

CALCOFI CRUISE 7505 103070
LATITUDE 29 46.0N LONGITUDE 119 05.0W
MO/DAY/YR 05/30/75 START TIME 1504 GMT
BOTTOM 3545M WIND 230 SPEED 4KT WEATHER 2 DOMINANT WAVES 240 3 7

RV DAVID STARR JORDAN CALCOFI CRUISE 7505 103080
LATITUDE 29 27.0N LONGITUDE 119 43.5W
MO/DAY/YR 5/30/75 MESSENGER TIME 2012 GMT
BOTTOM 3926M WIND 030 SPEED 4KT WEATHER 2 DOMINANT WAVES 140 3 7

103080			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			107032		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 27.0N	119 43.5W	05/30/75	1920 GMT			30 26.0N	116 11.0W	06/01/75	0355 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3926M	030	4KT	2	140 3 7		371M	330	18KT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.25	33.74	24.742	321.2	0.000	0	14.94	33.65	24.965	300.0	0.000
10	15.88	33.74	24.827	313.2	0.031	10	14.94	33.65	24.965	300.0	0.030
20	15.83	33.74	24.838	312.1	0.063	20	13.50	33.53	25.175	280.0	0.059
30	15.75	33.73	24.848	311.1	0.094	30	11.78	33.48	25.471	251.8	0.085
40	15.52	33.72	24.892	306.9	0.125	40	11.25	33.53	25.608	238.9	0.110
50	15.43	33.72	24.912	305.1	0.156	50	10.76	33.62	25.765	223.9	0.133
75	15.23	33.71	24.948	301.6	0.232	75	10.05	33.80	26.028	198.9	0.186
100	14.35	33.63	25.076	289.4	0.306	100	9.76	33.91	26.162	186.1	0.235
125	12.36	33.54	25.408	257.8	0.375	125	9.53	34.06	26.317	171.4	0.280
150	11.13	33.55	25.645	235.3	0.438	150	9.37	34.21	26.460	157.8	0.322
175	9.88	33.70	25.979	203.6	0.494	175	9.32	34.27	26.515	152.6	0.362
200	9.44	33.80	26.129	189.3	0.544	200	8.92	34.26	26.572	147.2	0.400
225	8.91	33.89	26.285	174.5	0.590	225	8.58	34.24	26.610	143.6	0.437
250	8.55	33.97	26.403	163.2	0.634	250	8.48	34.24	26.625	142.2	0.474
275	8.41	34.03	26.472	156.7	0.675	275	8.68	34.34	26.672	137.7	0.510
300	7.76	34.04	26.577	146.8	0.714	300	8.79	34.38	26.686	136.3	0.546
350	7.24	34.12	26.714	133.8	0.787	325	8.67	34.38	26.705	134.6	0.581
400	6.74	34.15	26.806	125.0	0.854						
450	6.37	34.19	26.887	117.4	0.918						
500	6.01	34.23	26.965	110.0	0.978						
550	5.70	34.27	27.035	103.3	1.035						
600	5.55	34.36	27.125	94.8	1.088						
700	5.15	34.40	27.204	87.3	1.187						
800	4.65	34.43	27.285	79.6	1.279						
900	4.30	34.45	27.339	74.5	1.364						
1000	4.04	34.49	27.398	68.9	1.445						

107035			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			107040		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
30 21.0N	116 22.0W	06/01/75	0012 GMT			30 11.0N	116 42.0W	05/31/75	2028 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1756M	320	16KT	2	330 4 7		2696M	310	12KT	2	300 3 8	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.48	33.62	24.824	313.4	0.000	0	15.28	33.62	24.868	309.2	0.000
10	15.46	33.62	24.828	313.0	0.031	10	15.28	33.62	24.868	309.2	0.030
20	14.86	33.62	24.960	300.5	0.062	20	15.21	33.62	24.883	307.7	0.061
30	14.68	33.63	25.006	296.1	0.091	30	14.98	33.61	24.926	303.7	0.092
40	14.47	33.63	25.051	291.8	0.121	40	14.50	33.57	24.998	296.8	0.122
50	14.22	33.64	25.111	286.1	0.150	50	13.05	33.50	25.242	273.6	0.151
75	11.55	33.54	25.561	243.3	0.217	75	11.13	33.49	25.598	239.8	0.215
100	10.48	33.65	25.837	217.0	0.275	100	10.13	33.64	25.890	212.0	0.272
125	9.35	33.87	26.198	182.7	0.325	125	9.50	33.88	26.182	184.3	0.322
150	9.03	34.01	26.359	167.4	0.370	150	9.05	34.02	26.364	167.0	0.367
175	8.76	34.09	26.465	157.4	0.411	175	8.73	34.10	26.477	156.2	0.408
200	8.76	34.19	26.542	150.0	0.450	200	8.47	34.16	26.564	148.0	0.447
225	8.48	34.23	26.617	142.9	0.488	225	8.65	34.28	26.630	141.7	0.484
250	8.27	34.24	26.657	139.1	0.524	250	8.53	34.29	26.657	139.2	0.520
275	8.06	34.30	26.736	131.7	0.559	275	8.36	34.32	26.706	134.5	0.556
300	7.86	34.31	26.773	128.1	0.593	300	8.12	34.32	26.743	131.0	0.590
350	7.44	34.31	26.835	122.3	0.658	350	7.53	34.31	26.822	123.5	0.657
400	7.08	34.34	26.909	115.2	0.721	400	6.44	34.22	26.901	116.0	0.720
450	6.89	34.35	26.943	112.0	0.781	450	6.08	34.24	26.964	110.1	0.779
500	6.61	34.36	26.989	107.7	0.839	500	5.83	34.26	27.011	105.6	0.836
550	6.33	34.36	27.026	104.2	0.896	550	5.89	34.37	27.090	98.0	0.890
600	6.04	34.38	27.079	99.1	0.951	600	5.63	34.39	27.138	93.5	0.942
700	5.40	34.39	27.166	90.8	1.054	700	4.99	34.40	27.222	85.5	1.034
800	4.91	34.40	27.232	84.6	1.151	800	4.61	34.42	27.281	79.9	1.130
900	4.44	34.44	27.316	76.7	1.240	900	4.28	34.45	27.341	74.3	1.216
1000	4.10	34.47	27.376	71.0	1.323	1000	4.02	34.48	27.392	69.4	1.297

RV DAVID STARR JORDAN			CALCOFI CRUISE 7505						107040						
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
30 11.0N	116 42.0W	5/31/75	2135	GMT		2696M	310	12KT	2	300 3 8					
Z	T	S	Q2	PO4	S103	NO2	NO3	DT	Z	T	S	Q2	SIGT	DT	DD
1	15.25	33.625	5.94					308.2	0	15.25	33.625	5.94	24.879	308.2	0.000
11	15.22	33.622	5.90					307.8	10	15.22	33.623	5.90	24.882	307.8	0.030
30	14.35	33.589	6.14					292.4	20	14.91	33.612	6.02	24.941	302.2	0.061
58	11.95	33.488	5.45					254.2	30	14.35	33.589	6.14	25.044	292.4	0.091
77	11.09	33.501	5.01					238.3	50	12.63	33.510	5.70	25.331	265.2	0.147
91	10.48	33.581	4.55					222.1	75	11.16	33.497	5.06	25.596	239.9	0.210
105	10.08	33.656	4.25					210.1	100	10.20	33.629	4.35	25.867	214.2	0.267
133	9.56	33.895	3.23					184.1	125	9.68	33.827	3.52	26.109	191.2	0.319
157	9.19	34.024	2.82					168.8	150	9.29	33.994	2.91	26.304	172.7	0.365
185	8.73	34.090	2.52					157.0	200	8.60	34.134	2.19	26.523	151.9	0.448
218	8.52	34.187	1.78					146.7	250	8.42	34.261	1.27	26.650	139.8	0.523
288	8.29	34.319	0.88					133.5	300	8.18	34.325	0.84	26.736	131.7	0.593
386	7.26	34.307	0.58					120.1	400	7.07	34.296	0.57	26.875	118.5	0.724
490	6.02	34.254	0.57					108.3	500	5.97	34.263	0.54	26.996	107.0	0.843
593	5.65	34.367	0.31					95.4	600	5.60	34.370	0.31	27.126	94.7	0.951
723	4.86	34.405	0.43					83.7	700	5.00	34.402	0.39	27.223	85.4	1.049
875	4.37	34.439	0.51					76.0	800	4.57	34.423	0.47	27.287	79.4	1.139
1037	3.93	34.476	0.67					68.8	1000	4.02	34.467	0.62	27.382	70.4	1.307

107050			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			107060		
LATITUDE	LONGITUDE		MO/DAY/YR	START TIME		LATITUDE	LONGITUDE		MO/DAY/YR	START TIME	
29 50.0N	117 25.0W		05/31/75	1509 GMT		29 31.5N	118 01.5W		05/31/75	1023 GMT	
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
2602M	350	12KT	2	320 2 2		3545M	320	12KT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.37	33.58	24.818	314.0	0.000	0	15.70	33.63	24.782	317.3	0.000
10	14.84	33.56	24.918	304.5	0.030	10	15.69	33.63	24.785	317.1	0.031
20	14.17	33.52	25.029	293.8	0.060	20	15.21	33.62	24.883	307.7	0.063
30	14.04	33.51	25.049	292.0	0.090	30	15.11	33.61	24.898	306.4	0.093
40	13.18	33.49	25.209	276.8	0.118	40	14.97	33.59	24.913	305.0	0.124
50	12.60	33.48	25.315	266.7	0.146	50	14.25	33.52	25.013	295.5	0.154
75	11.22	33.53	25.613	238.3	0.209	75	12.35	33.47	25.356	262.8	0.224
100	10.05	33.74	25.981	203.3	0.265	100	11.10	33.56	25.658	234.1	0.287
125	9.44	33.95	26.246	178.1	0.313	125	10.00	33.77	26.013	200.3	0.342
150	8.94	34.03	26.389	164.6	0.357	150	9.51	33.96	26.243	178.5	0.390
175	8.58	34.06	26.469	157.0	0.398	175	9.04	34.03	26.373	166.1	0.434
200	8.44	34.14	26.553	149.0	0.437	200	8.80	34.11	26.474	156.6	0.475
225	8.30	34.18	26.606	144.0	0.474	225	8.73	34.16	26.524	151.8	0.515
250	8.11	34.20	26.650	139.8	0.511	250	8.36	34.16	26.581	146.4	0.553
275	7.98	34.25	26.709	134.2	0.546	275	7.88	34.14	26.637	141.0	0.590
300	7.77	34.26	26.747	130.6	0.581	300	7.66	34.17	26.693	135.7	0.626
350	7.43	34.30	26.828	122.9	0.647	350	7.90	34.34	26.791	126.4	0.694
400	6.96	34.30	26.894	116.7	0.710	400	7.36	34.35	26.877	118.2	0.758
450	6.34	34.28	26.962	110.3	0.769	450	7.05	34.36	26.929	113.4	0.820
500	5.94	34.29	27.021	104.6	0.826	500	6.59	34.35	26.984	108.2	0.879
550	5.52	34.30	27.081	99.0	0.881	550	5.90	34.32	27.050	101.9	0.935
600	5.51	34.36	27.129	94.4	0.933	600	5.61	34.37	27.125	94.8	0.988
700	5.10	34.40	27.210	86.7	1.031	700	5.17	34.42	27.217	86.0	1.086
800	4.70	34.42	27.271	80.9	1.123	800	4.76	34.43	27.273	80.8	1.178
900	4.38	34.45	27.330	75.3	1.210	900	4.26	34.46	27.351	73.3	1.264
1000	3.98	34.48	27.396	69.0	1.291	1000	3.99	34.48	27.395	69.1	1.344

107070			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			107080		
LATITUDE	LONGITUDE		MO/DAY/YR	START TIME		LATITUDE	LONGITUDE		MO/DAY/YR	START TIME	
29 11.0N	118 41.0W		05/31/75	0538 GMT		28 51.5N	119 20.0W		05/31/75	0114 GMT	
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
2980M	320	8KT				3737M	270	2KT	2	340 4 6	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.03	33.64	24.716	323.7	0.000	0	17.11	33.86	24.634	331.5	0.000
10	15.55	33.65	24.831	312.7	0.031	10	16.51	33.86	24.774	318.1	0.032
20	15.51	33.68	24.863	309.7	0.063	20	16.45	33.86	24.788	316.8	0.064
30	15.49	33.70	24.883	307.8	0.093	30	16.19	33.85	24.840	311.8	0.095
40	15.47	33.71	24.895	306.6	0.124	40	16.11	33.85	24.858	310.1	0.127
50	15.47	33.71	24.895	306.6	0.155	50	15.93	33.84	24.892	306.9	0.158
75	15.26	33.69	24.926	303.7	0.232	75	15.71	33.84	24.941	302.2	0.234
100	13.45	33.56	25.209	276.8	0.305	100	15.00	33.82	25.083	288.7	0.309
125	11.88	33.53	25.492	249.9	0.372	125	13.39	33.78	25.390	259.5	0.378
150	10.56	33.63	25.808	219.8	0.431	150	11.64	33.72	25.683	231.6	0.440
175	9.87	33.78	26.042	197.5	0.484	175	10.38	33.69	25.886	212.4	0.497
200	9.53	34.02	26.286	174.4	0.531	200	9.73	33.80	26.082	193.8	0.548
225	9.15	34.06	26.379	165.5	0.575	225	9.15	33.94	26.285	174.4	0.595
250	9.08	34.18	26.484	155.6	0.616	250	8.71	33.99	26.394	164.1	0.639
275	8.86	34.21	26.542	150.0	0.656	275	8.30	34.03	26.489	155.1	0.680
300	8.56	34.24	26.613	143.3	0.694	300	8.07	34.06	26.547	149.6	0.719
350	7.93	34.25	26.716	133.5	0.766	350	7.38	34.08	26.663	138.6	0.794
400	7.44	34.31	26.835	122.3	0.833	400	6.75	34.13	26.789	126.6	0.863
450	6.96	34.31	26.902	115.9	0.896	450	6.71	34.23	26.873	118.6	0.928
500	6.59	34.32	26.960	110.4	0.956	500	6.15	34.23	26.947	111.7	0.989
550	6.10	34.33	27.032	103.6	1.013	550	5.75	34.25	27.013	105.4	1.046
600	5.82	34.35	27.083	98.7	1.068	600	5.52	34.29	27.073	99.7	1.101
700	5.34	34.39	27.174	90.2	1.170	700	5.22	34.37	27.172	90.3	1.204
800	4.87	34.42	27.252	82.7	1.265	800	4.80	34.41	27.252	82.7	1.299
900	4.49	34.45	27.318	76.4	1.354	900	4.44	34.44	27.316	76.7	1.388
1000	4.18	34.48	27.375	71.0	1.437	1000	4.10	34.48	27.384	70.2	1.470

110070		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 36.5N	118 18.0W	06/02/75	0730 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3926M	320	17KT			
Z	T	S	SIGMA T	DT	DD
0	15.70	33.64	24.790	316.6	0.000
10	15.70	33.64	24.790	316.6	0.031
20	15.23	33.64	24.894	306.7	0.062
30	15.12	33.64	24.918	304.4	0.093
40	15.02	33.63	24.932	303.1	0.124
50	14.95	33.62	24.940	302.4	0.154
75	13.72	33.49	25.100	287.2	0.228
100	12.30	33.55	25.427	256.0	0.296
125	11.23	33.66	25.712	228.9	0.358
150	10.44	33.76	25.930	208.2	0.413
175	10.01	33.98	26.175	185.0	0.463
200	9.49	34.08	26.339	169.3	0.508
225	9.33	34.16	26.428	160.9	0.551
250	9.19	34.22	26.497	154.3	0.591
275	8.77	34.24	26.580	146.4	0.630
300	8.17	34.24	26.672	137.7	0.667
350	7.85	34.28	26.752	130.2	0.737
400	7.37	34.30	26.837	122.1	0.803
450	6.75	34.30	26.923	113.9	0.865
500	6.38	34.30	26.972	109.3	0.925
550	5.95	34.32	27.043	102.5	0.981
600	5.55	34.35	27.117	95.6	1.034
700	5.00	34.38	27.206	87.1	1.134
800	4.64	34.42	27.278	80.2	1.225
900	4.33	34.46	27.344	74.0	1.311
1000	4.01	34.48	27.393	69.3	1.392

CALCIFI CRUISE 7505		110080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 16.5N	118 57.0W	06/02/75	1200 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3926M	320	14KT			
Z	T	S	SIGMA T	DT	DD
0	15.95	33.67	24.757	319.8	0.000
10	15.94	33.67	24.759	319.6	0.031
20	15.88	33.67	24.773	318.3	0.063
30	15.76	33.72	24.838	312.1	0.095
40	15.67	33.73	24.866	309.4	0.126
50	15.66	33.73	24.868	309.2	0.157
75	15.35	33.71	24.922	304.1	0.234
100	14.35	33.66	25.099	287.2	0.309
125	12.78	33.63	25.396	259.0	0.378
150	11.54	33.64	25.640	235.8	0.441
175	10.38	33.74	25.925	208.7	0.497
200	9.77	33.82	26.090	192.9	0.548
225	9.07	33.95	26.306	172.5	0.595
250	8.81	34.08	26.449	158.9	0.638
275	8.53	34.07	26.485	155.5	0.678
300	8.28	34.15	26.585	145.9	0.717
350	7.67	34.19	26.707	134.4	0.790
400	7.44	34.25	26.788	126.8	0.858
450	7.05	34.26	26.850	120.8	0.924
500	6.64	34.33	26.961	110.3	0.985
550	6.22	34.35	27.032	103.5	1.042
600	5.88	34.36	27.084	98.7	1.097
700	5.27	34.40	27.190	88.6	1.198
800	4.78	34.43	27.270	81.0	1.292
900	4.45	34.46	27.331	75.3	1.379
1000	4.10	34.49	27.392	69.5	1.460

113030		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 22.0N	115 18.0W	06/03/75	1857 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
60M	300	15KT	2	310 4 3	
Z	T	S	SIGMA T	DT	DD
0	13.44	33.80	25.395	259.0	0.000
10	13.28	33.79	25.420	256.7	0.025
20	12.89	33.77	25.482	250.7	0.051
30	11.50	33.78	25.756	224.8	0.075
40	11.33	33.81	25.810	219.6	0.097
50	11.00	33.87	25.916	209.5	0.118

CALCIFI CRUISE 7505		113035			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 11.0N	115 38.0W	06/03/75	1503 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1485M	310	13KT	2	310 5 7	
Z	T	S	SIGMA T	DT	DD
0	14.92	33.60	24.931	303.2	0.000
10	14.92	33.60	24.931	303.2	0.030
20	14.92	33.60	24.931	303.2	0.060
30	14.92	33.60	24.931	303.2	0.091
40	14.89	33.59	24.930	303.3	0.121
50	14.11	33.54	25.057	291.2	0.151
75	12.57	33.50	25.337	264.6	0.221
100	11.35	33.55	25.605	239.1	0.284
125	10.88	33.87	25.938	207.4	0.341
150	9.73	34.05	26.276	175.3	0.389
175	9.40	34.09	26.362	167.2	0.433
200	8.62	34.07	26.471	156.9	0.474
225	8.48	34.12	26.531	151.1	0.514
250	8.81	34.28	26.605	144.1	0.552
275	8.77	34.34	26.658	139.0	0.588
300	8.46	34.33	26.699	135.2	0.624
350	7.50	34.26	26.787	126.8	0.692
400	6.86	34.25	26.869	119.1	0.757
450	7.03	34.37	26.939	112.4	0.818
500	6.53	34.36	27.000	106.7	0.876
550	6.08	34.35	27.050	101.8	0.932
600	5.39	34.32	27.112	96.0	0.985
700	5.33	34.41	27.191	88.6	1.086
800	4.85	34.43	27.262	81.7	1.179
900	4.48	34.46	27.327	75.6	1.267
1000	4.09	34.49	27.393	69.4	1.349

1130H0		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 42.0N	118 33.0W	06/02/75	1645 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT	WAVES
3926M	330	12KT	2	330	5 7
Z	T	S	SIGMA T	DT	DD
0	16.27	33.69	24.699	325.2	0.000
10	16.26	33.69	24.702	325.0	0.032
20	15.70	33.68	24.821	313.7	0.064
30	15.31	33.66	24.892	306.9	0.095
40	15.27	33.65	24.893	306.8	0.126
50	15.00	33.64	24.945	301.9	0.156
75	14.15	33.53	25.041	292.7	0.231
100	12.34	33.53	25.404	258.2	0.301
125	10.88	33.60	25.128	227.4	0.362
150	9.94	33.75	26.007	200.8	0.416
175	9.39	33.86	26.184	184.1	0.465
200	8.92	33.96	26.338	169.5	0.510
225	8.52	34.01	26.439	159.8	0.553
250	8.23	34.03	26.499	154.2	0.593
275	8.34	34.19	26.607	143.8	0.631
300	8.08	34.18	26.639	140.9	0.668
350	7.91	34.27	26.735	131.8	0.739
400	7.52	34.32	26.831	122.7	0.806
450	6.94	34.33	26.921	114.2	0.869
500	6.40	34.32	26.985	108.0	0.928
550	6.04	34.35	27.056	101.3	0.984
600	5.82	34.37	27.099	97.2	1.037
700	5.19	34.37	27.175	90.0	1.139
800	4.65	34.40	27.261	81.9	1.233
900	4.34	34.45	27.335	74.9	1.320
1000	4.02	34.48	27.392	69.4	1.401

CALCOFI CRUISE 7505		117025			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 58.0N	114 37.0W	06/04/75	0005 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES
54M	290	12KT	1	300	5 5
Z	T	S	SIGMA T	DT	DD
0	14.34	33.72	25.148	282.6	0.000
10	13.90	33.70	25.224	275.3	0.027
20	13.34	33.69	25.331	265.2	0.054
30	12.74	33.70	25.458	253.1	0.080
40	12.69	33.72	25.483	250.7	0.106

117030		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 48.0N	114 56.5W	06/04/75	0320 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT	WAVES
103M	280	16KT			
Z	T	S	SIGMA T	DT	DD
0	15.23	33.77	24.994	297.2	0.000
10	15.23	33.77	24.994	297.2	0.029
20	13.74	33.77	25.311	267.0	0.057
30	12.18	33.76	25.613	238.4	0.083
40	11.09	33.72	25.784	222.1	0.106
50	10.76	33.79	25.897	211.3	0.128
75	9.75	34.02	26.249	177.8	0.177
90	9.75	34.12	26.327	170.4	0.203

CALCOFI CRUISE 7505		117035			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 38.0N	115 16.0W	06/04/75	0532 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES
196M	290	9KT			
Z	T	S	SIGMA T	DT	DD
0	14.57	33.56	24.976	299.0	0.000
10	14.55	33.56	24.980	298.6	0.029
20	14.22	33.56	25.050	291.9	0.059
30	14.07	33.55	25.073	289.7	0.088
40	13.61	33.52	25.145	282.8	0.117
50	12.95	33.45	25.224	275.4	0.145
75	11.93	33.53	25.482	250.8	0.211
100	10.37	33.67	25.872	213.7	0.270
125	9.29	33.83	26.177	184.7	0.320
150	9.06	33.97	26.323	170.8	0.365
170	9.01	34.00	26.355	167.8	0.400

117000 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 08.0N	118 10.0W	06/05/75	0454 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
430BM	330	6KT			
Z	T	S	SIGMA T	DT	DD
0	16.47	33.66	24.631	331.8	0.000
10	16.23	33.66	24.686	326.6	0.032
20	16.20	33.66	24.693	325.9	0.065
30	15.81	33.65	24.773	318.2	0.097
40	15.58	33.64	24.817	314.1	0.129
50	15.33	33.62	24.857	310.3	0.160
75	14.88	33.56	24.909	305.3	0.238
100	14.34	33.55	25.017	295.1	0.314
125	12.13	33.52	25.437	255.1	0.383
150	11.73	33.66	25.620	237.7	0.445
175	10.40	33.70	25.890	212.0	0.503
200	9.57	33.82	26.124	189.8	0.554
225	9.12	33.92	26.275	175.4	0.600
250	8.58	34.00	26.422	161.4	0.644
275	8.27	34.04	26.501	154.0	0.684
300	7.94	34.07	26.574	147.1	0.723
350	7.37	34.13	26.703	134.8	0.796
400	6.80	34.15	26.798	125.8	0.864
450	6.44	34.18	26.870	119.0	0.929
500	6.33	34.25	26.939	112.4	0.990
550	5.94	34.27	27.005	106.1	1.048
600	5.68	34.32	27.077	99.3	1.103
700	5.25	34.38	27.176	89.9	1.206
800	4.71	34.41	27.262	81.8	1.300
900	4.38	34.43	27.314	76.8	1.388
1000	4.03	34.47	27.383	70.3	1.471

CALCOFI CRUISE 7505 118039

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 18.5N	115 23.5W	06/04/75	0756 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
260M	310	6KT			
Z	T	S	SIGMA T	DT	DD
0	14.96	33.56	24.892	306.9	0.000
10	14.90	33.55	24.897	306.4	0.030
20	14.25	33.50	24.997	296.9	0.060
30	13.98	33.53	25.077	289.4	0.090
40	13.90	33.55	25.109	286.3	0.119
50	13.60	33.51	25.139	283.4	0.147
75	11.36	33.47	25.541	245.2	0.214
100	9.78	33.77	26.050	196.8	0.269
125	9.78	34.11	26.315	171.6	0.316
150	9.62	34.21	26.419	161.7	0.358
175	9.55	34.24	26.454	158.4	0.399
200	9.51	34.31	26.516	152.6	0.439

119033 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 19.0N	114 53.0W	06/06/75	1109 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
110M	320	12KT			
Z	T	S	SIGMA T	DT	DD
0	15.13	33.80	25.039	292.9	0.000
10	15.13	33.80	25.039	292.9	0.029
20	14.68	33.77	25.114	289.8	0.058
30	12.37	33.62	25.468	252.1	0.085
40	11.49	33.62	25.634	236.4	0.109
50	11.23	33.72	25.759	224.5	0.132
75	10.03	33.85	26.070	194.9	0.185
96	9.71	33.98	26.225	180.2	0.225

CALCOFI CRUISE 7505 120030

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 13.0N	114 34.0W	06/06/75	1314 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
95M	320	13KT	1	310 3 5	
Z	T	S	SIGMA T	DT	DD
0	15.23	33.81	25.025	294.3	0.000
10	15.23	33.81	25.025	294.3	0.029
20	15.01	33.77	25.042	292.6	0.058
30	12.47	33.75	25.549	244.4	0.085
40	11.86	33.75	25.666	233.3	0.109
50	10.71	33.77	25.890	212.0	0.132
75	10.21	33.92	26.094	192.6	0.183
86	10.13	33.95	26.131	189.1	0.204

120035 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 03.0N	114 54.0W	06/06/75	0811 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
82M	330	11KT			
Z	T	S	SIGMA T	DT	DD
0	14.88	33.67	24.994	297.3	0.000
10	14.62	33.73	25.096	287.5	0.029
20	14.30	33.70	25.141	283.3	0.057
30	13.26	33.66	25.324	265.8	0.085
40	12.41	33.64	25.476	251.4	0.111
50	11.36	33.64	25.673	232.6	0.135
61	10.50	33.69	25.865	214.4	0.160

CALCOFI CRUISE 7505 120045

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 43.0N	115 33.0W	06/06/75	0300 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
2415M	330	13KT			
Z	T	S	SIGMA T	DT	DD
0	15.52	33.68	24.861	309.9	0.000
10	15.41	33.67	24.878	308.3	0.030
20	14.42	33.63	25.061	290.8	0.060
30	14.03	33.59	25.112	286.0	0.089
40	13.15	33.56	25.269	271.1	0.117
50	12.00	33.52	25.461	252.8	0.144
75	10.28	33.82	26.004	201.2	0.201
100	9.88	34.05	26.251	177.7	0.249
125	9.82	34.17	26.355	167.8	0.292
150	9.33	34.22	26.475	156.4	0.334
175	9.23	34.27	26.530	151.2	0.373
200	9.17	34.33	26.587	145.8	0.411
225	9.04	34.35	26.623	142.3	0.448
250	8.89	34.35	26.647	140.1	0.484
275	8.76	34.38	26.691	135.9	0.520
300	8.51	34.40	26.746	130.7	0.555
350	8.09	34.40	26.810	124.6	0.622
400	7.53	34.38	26.876	118.3	0.686
450	6.70	34.33	26.953	111.1	0.746
500	6.50	34.37	27.011	105.5	0.804
550	6.23	34.39	27.063	100.7	0.859
600	5.96	34.40	27.105	96.7	0.913
700	5.38	34.41	27.185	89.1	1.014
800	4.95	34.42	27.243	83.6	1.109
900	4.44	34.45	27.324	75.9	1.198
1000	4.04	34.47	27.382	70.4	1.280

Z	T	10 METER S	DATA DT	DT		
70.051	05/10/75	0028GMT 36 11.5N 121 44.0W BOTTOM 103M WIND 280 15KT WEATHER 1 DOMINANT WAVES 270 4 8	10	10.23	33.826	199.9
70.053	05/10/75	0215GMT 36 06.5N 121 54.0W BOTTOM 1073M WIND 340 15KT WEATHER 2 DOMINANT WAVES 340 4 9	10	9.73	33.881	4.80 187.8
70.060	05/10/75	0625GMT 35 53.0N 122 23.0W BOTTOM 3163M WIND 320 4KT WEATHER 2 DOMINANT WAVES 320 2 8	10	10.88	33.430	6.28 239.9
70.065	05/10/75	0938GMT 35 43.0N 122 45.0W BOTTOM 1387M WIND 350 5KT WEATHER 1 DOMINANT WAVES	10	11.55	33.501	6.48 246.2
70.070	05/10/75	1231GMT 35 33.0N 123 06.0W BOTTOM 3918M WIND 280 6KT WEATHER 1 DOMINANT WAVES	10	11.88	33.360	6.30 262.4
70.080	05/10/75	1655GMT 35 13.0N 123 48.0W BOTTOM 4116M WIND 240 11KT WEATHER 2 DOMINANT WAVES 270 8 13	10	13.03	33.391	6.24 281.2
73.050	05/12/75	0222GMT 35 37.0N 121 17.0W BOTTOM 99M WIND 300 27KT WEATHER 0 DOMINANT WAVES 300 10 9	10	9.48	33.926	180.6
73.053	05/12/75	0030GMT 35 31.5N 121 28.5W BOTTOM 741M WIND 310 30KT WEATHER 1 DOMINANT WAVES 300 10 6	10	11.03	33.568	232.3
73.060	05/11/75	1935GMT 35 18.0N 121 57.5W BOTTOM 2410M WIND 340 25KT WEATHER 1 DOMINANT WAVES 320 10 7	10	12.00	33.437	6.40 258.9
73.065	05/11/75	1705GMT 35 08.0N 122 19.0W BOTTOM 3918M WIND 320 25KT WEATHER 1 DOMINANT WAVES 310 10 14	10	11.93	33.422	6.35 258.7
73.070	05/11/75	1358GMT 34 58.0N 122 40.0W BOTTOM 4493M WIND 330 24KT WEATHER 1 DOMINANT WAVES 290 8 12	10	13.10	33.397	6.16 282.1
73.080	05/11/75	0850GMT 34 38.0N 123 22.0W BOTTOM 4308M WIND 320 25KT WEATHER DOMINANT WAVES 320 7 8	10	13.50	33.395	6.13 289.9
73.090	05/11/75	0340GMT 34 18.5N 124 04.0W BOTTOM 3075M WIND 310 15KT WEATHER 2 DOMINANT WAVES	10	12.62	33.358	276.0
77.048	05/12/75	0630GMT 35 08.5N 120 43.5W BOTTOM 30M WIND 300 15KT WEATHER 0 DOMINANT WAVES 300 8 8	10	9.44	33.953	3.88 177.9
77.051	05/12/75	0817GMT 35 01.0N 120 56.5W BOTTOM 297M WIND 330 21KT WEATHER 0 DOMINANT WAVES 290 10 8	10	11.08	33.588	5.88 231.7
77.055	05/12/75	1035GMT 34 54.5N 121 13.5W BOTTOM 593M WIND 330 23KT WEATHER 0 DOMINANT WAVES 290 8 8	10	11.40	33.578	6.11 237.9
77.060	05/12/75	1341GMT 34 45.0N 121 33.0W BOTTOM 851M WIND 330 22KT WEATHER 0 DOMINANT WAVES 290 8 9	10	12.40	33.571	6.23 256.3
77.065	05/12/75	1647GMT 34 34.0N 121 55.0W BOTTOM 3918M WIND 320 22KT WEATHER 0 DOMINANT WAVES 320 9 7	10	12.01	33.582	248.4
77.080	05/13/75	0058GMT 34 04.0N 122 57.0W BOTTOM 4308M WIND 330 21KT WEATHER 0 DOMINANT WAVES 330 8 7	10	13.06	33.527	5.26 271.8
77.090	05/13/75	0558GMT 33 43.0N 123 39.0W BOTTOM 4498M WIND 310 27KT WEATHER 0 DOMINANT WAVES 330 8 10	10	13.30	33.155	6.18 303.7
80.050	05/14/75	1150GMT 34 27.5N 120 30.0W BOTTOM 37M WIND 230 5KT WEATHER DOMINANT WAVES	10	11.96	33.901	6.11 224.0
80.051	05/14/75	1100GMT 34 26.5N 120 33.5W BOTTOM 118M WIND 230 5KT WEATHER DOMINANT WAVES	10	11.26	33.880	213.2
80.052	05/14/75	0950GMT 34 25.0N 120 35.5W BOTTOM 233M WIND (KT WEATHER DOMINANT WAVES	10	11.34	33.898	5.57 213.3
80.053	05/14/75	0840GMT 34 23.0N 120 40.5W BOTTOM 482M WIND (KT WEATHER DOMINANT WAVES	10	10.73		4.88
80.054	05/14/75	0735GMT 34 20.5N 120 43.5W BOTTOM 685M WIND (KT WEATHER DOMINANT WAVES	10	10.70		4.76
80.055	05/14/75	0601GMT 34 19.0N 120 48.0W BOTTOM 759M WIND 240 5KT WEATHER DOMINANT WAVES	10	10.73	33.880	5.02 204.2

						10 METER DATA			
Z	T	S	P2	DT					
80.060	05/14/75	0242GMT	34 09.0N	121 09.0W	10	12.55	33.442	6.30	268.5
	BOTTOM	2222M	WIND 230	4KT WEATHER 2					
	DOMINANT WAVES	310	4	5					
80.080	05/13/75	1612GMT	33 29.0N	122 32.0W	10	13.30	33.218	6.16	299.0
	BOTTOM	3926M	WIND 330	4KT WEATHER 2					
	DOMINANT WAVES	330	4	5					
80.090	05/13/75	1106GMT	33 07.0N	123 14.0W	10	13.58		6.15	
	BOTTOM	4308M	WIND 350	15KT WEATHER 0					
	DOMINANT WAVES								
81.043 ⁵	05/15/75	2306GMT	34 24.0N	119 48.0W	10	12.98	33.876		244.6
	BOTTOM	37M	WIND 230	1KT WEATHER					
	DOMINANT WAVES	240	3	3					
81.044 ⁵	05/15/75	2136GMT	34 23.0N	119 50.0W	10	12.06	33.863		228.6
	BOTTOM	62M	WIND 250	7KT WEATHER 2					
	DOMINANT WAVES	250	3	5					
81.044 ⁵	05/15/75	2012GMT	34 22.0N	119 52.0W	10	12.08	33.856		229.5
	BOTTOM	75M	WIND 220	5KT WEATHER 1					
	DOMINANT WAVES	270	3	4					
81.045 ⁵	05/15/75	1829GMT	34 21.0N	119 54.0W	10	11.24	33.846		215.4
	BOTTOM	353M	WIND 220	3KT WEATHER 2					
	DOMINANT WAVES	250	3	4					
81.046 ⁵	05/15/75	1630GMT	34 19.0N	119 58.0W	10	11.10	33.921		207.4
	BOTTOM	501M	WIND 250	4KT WEATHER 2					
	DOMINANT WAVES	250	3	4					
81.047 ⁵	05/15/75	1330GMT	34 17.0N	120 02.5W	10	10.94	33.969		201.2
	BOTTOM	593M	WIND 310	14KT WEATHER 1					
	DOMINANT WAVES	290	4	4					
83.039 ⁶	05/16/75	0212GMT	34 14.5N	119 19.5W	10	12.30	33.790		238.3
	BOTTOM	19M	WIND 250	4KT WEATHER 2					
	DOMINANT WAVES	240	3	4					
83.040 ⁶	05/16/75	0326GMT	34 12.5N	119 24.0W	10	12.14	33.776		236.4
	BOTTOM	37M	WIND 220	7KT WEATHER 2					
	DOMINANT WAVES	230	4	7					
83.041	05/16/75	0426GMT	34 11.5N	119 26.0W	10	12.40	33.784		240.6
	BOTTOM	75M	WIND	WEATHER					
	DOMINANT WAVES	240	3	6					
83.042	05/16/75	0626GMT	34 09.5N	119 30.0W	10	12.05	33.803		232.8
	BOTTOM	233M	WIND 230	7KT WEATHER					
	DOMINANT WAVES								
83.043	05/16/75	0810GMT	34 08.0N	119 34.0W	10	12.70	33.783		246.2
	BOTTOM	251M	WIND	WEATHER					
	DOMINANT WAVES								
83.044	05/16/75	1010GMT	34 05.5N	119 38.0W	10	12.16	33.859		230.7
	BOTTOM	187M	WIND 240	5KT WEATHER					
	DOMINANT WAVES								
83.044 ⁷	05/16/75	1140GMT	34 04.0N	119 41.0W	10	11.85	33.846		226.1
	BOTTOM	90M	WIND 270	14KT WEATHER					
	DOMINANT WAVES								
83.045	05/16/75	1248GMT	34 03.5N	119 42.5W	10	11.88	33.842		226.9
	BOTTOM	86M	WIND 270	13KT WEATHER					
	DOMINANT WAVES								
83.048	05/16/75	1530GMT	33 58.0N	119 55.0W	10	11.53	33.790		224.6
	BOTTOM	121M	WIND 310	15KT WEATHER 1					
	DOMINANT WAVES	320	4	4					
83.049	05/16/75	1636GMT	33 55.5N	119 59.0W	10	11.52	33.820		222.2
	BOTTOM	28M	WIND 330	20KT WEATHER 1					
	DOMINANT WAVES	300	3	4					
83.050	05/16/75	1724GMT	33 53.5N	120 03.5W	10	11.56	33.794		224.8
	BOTTOM	24M	WIND 330	21KT WEATHER 1					
	DOMINANT WAVES	300	3	5					
83.051	05/16/75	1830GMT	33 52.0N	120 08.5W	10	11.62	33.793		225.9
	BOTTOM	149M	WIND 290	31KT WEATHER 1					
	DOMINANT WAVES	340	9	5					
83.055	05/16/75	2230GMT	33 44.0N	120 24.5W	10	12.00	33.746	6.12	236.1
	BOTTOM	1128M	WIND 330	24KT WEATHER 1					
	DOMINANT WAVES	330	6	6					
83.060	05/17/75	0155GMT	33 34.0N	120 45.0W	10	12.84	33.750	6.10	251.3
	BOTTOM	1387M	WIND 340	20KT WEATHER 1					
	DOMINANT WAVES	340	9	7					
83.070	05/17/75	0640GMT	33 14.5N	121 26.0W	10	11.84	33.724	6.16	234.9
	BOTTOM	3926M	WIND 320	22KT WEATHER					
	DOMINANT WAVES	340	9	1					
83.080	05/17/75	1119GMT	32 54.0N	122 08.0W	10	13.40	33.316	6.15	293.8
	BOTTOM	4212M	WIND 340	24KT WEATHER					
	DOMINANT WAVES	150	9	8					
83.090	05/17/75	1630GMT	32 34.5N	122 50.0W	10	13.60	33.450	6.16	287.8
	BOTTOM	4308M	WIND 320	24KT WEATHER 2					
	DOMINANT WAVES	110	9	5					

						Z	T	10 METER S	DATA 02	DT
85.037	² 05/19/75	0910GMT	34 02.5N	118 58.5W		10	13.02	33.709		257.7
		BOTTOM	28M	WIND 310	5KT WEATHER					
		DOMINANT WAVES								
85.037	⁵ 05/19/75	0757GMT	34 02.0N	118 59.5W		10	13.32	33.703		263.8
		BOTTOM	71M	WIND 040	4KT WEATHER 0					
		DOMINANT WAVES								
85.038	05/19/75	0630GMT	34 01.0N	119 02.5W		10	13.46	33.729		264.6
		BOTTOM	223M	WIND 270	4KT WEATHER 0					
		DOMINANT WAVES								
85.039	05/19/75	0440GMT	33 59.0N	119 06.0W		10	13.79	33.728		271.1
		BOTTOM	694M	WIND 270	5KT WEATHER 0					
		DOMINANT WAVES								
85.040	05/19/75	0303GMT	33 57.0N	119 10.5W		10	14.16	33.677		282.2
		BOTTOM	759M	WIND 230	6KT WEATHER 1					
		DOMINANT WAVES	360	1 7						
87.032	⁵ 05/19/75	1855GMT	33 53.5N	118 26.5W		10	15.42	33.778		300.6
		BOTTOM	19M	WIND 270	6KT WEATHER 2					
		DOMINANT WAVES								
87.032	⁷ 05/19/75	1745GMT	33 54.5N	118 28.0W		10	13.68	33.770		265.9
		BOTTOM	30M	WIND 290	5KT WEATHER 2					
		DOMINANT WAVES	280	1 9						
87.033	05/19/75	1618GMT	33 54.0N	118 29.0W		10	13.77	33.752		268.9
		BOTTOM	48M	WIND 240	7KT WEATHER 2					
		DOMINANT WAVES	260	1 8						
87.034	05/19/75	1500GMT	33 52.0N	118 33.5W		10	14.48	33.740		284.0
		BOTTOM	73M	WIND 270	5KT WEATHER 2					
		DOMINANT WAVES	49							
87.035	05/19/75	1325GMT	33 50.5N	118 37.5W		10	15.30	33.710		303.0
		BOTTOM	380M	WIND 260	7KT WEATHER 2					
		DOMINANT WAVES	270	2 6						
87.036	05/19/75	1201GMT	33 49.0N	118 40.0W		10	14.58	33.751		285.2
		BOTTOM	907M	WIND 240	5KT WEATHER					
		DOMINANT WAVES	2	6						
87.040	05/18/75	2354GMT	33 40.0N	118 58.0W		10	14.28	33.643	6.50	287.0
		BOTTOM	925M	WIND 250	4KT WEATHER 2					
		DOMINANT WAVES	210	2 9						
87.045	05/18/75	2048GMT	33 30.0N	119 19.0W		10	13.02	33.775		252.8
		BOTTOM	1664M	WIND 250	6KT WEATHER 2					
		DOMINANT WAVES	230	3 8						
87.050	05/18/75	1805GMT	33 20.0N	119 39.5W		10	12.46	33.819	5.95	239.1
		BOTTOM	75M	WIND 280	3KT WEATHER 2					
		DOMINANT WAVES	130	3 8						
87.055	05/18/75	1533GMT	33 10.0N	120 00.0W		10	12.56	33.801	5.87	242.3
		BOTTOM	1295M	WIND 060	1KT WEATHER 2					
		DOMINANT WAVES	320	2 7						
87.060	05/18/75	1300GMT	33 00.0N	120 21.5W		10	12.38	33.687	6.20	247.4
		BOTTOM	854M	WIND 250	10KT WEATHER					
		DOMINANT WAVES								
87.070	05/18/75	0731GMT	32 39.5N	121 03.0W		10	12.39	33.426	6.19	266.8
		BOTTOM	3926M	WIND 010	3KT WEATHER					
		DOMINANT WAVES								
87.090	05/17/75	2100GMT	31 59.0N	122 25.0W		10	13.49	33.486	6.22	283.0
		BOTTOM	4116M	WIND 340	2(KT WEATHER 2					
		DOMINANT WAVES	340	8 5						
88.030	⁵ 05/20/75	0254GMT	33 41.5N	118 08.0W		10	14.29	33.673		285.1
		BOTTOM	19M	WIND 270	10KT WEATHER 2					
		DOMINANT WAVES	230	2 2						
88.031	⁵ 05/20/75	0155GMT	33 40.5N	118 09.5W		10	14.78	33.671		295.1
		BOTTOM	24M	WIND 260	1(KT WEATHER 2					
		DOMINANT WAVES	240	2 2						
88.032	⁵ 05/20/75	0045GMT	33 38.5N	118 13.5W		10	15.23	33.673		304.3
		BOTTOM	37M	WIND 280	6KT WEATHER 2					
		DOMINANT WAVES	290	2 2						
88.033	⁵ 05/19/75	2320GMT	33 36.5N	118 17.5W		10	14.99	33.675		299.2
		BOTTOM	205M	WIND 290	1(KT WEATHER 2					
		DOMINANT WAVES	290	2 2						
88.034	⁵ 05/19/75	2135GMT	33 34.5N	118 22.0W		10	15.18	33.675		303.1
		BOTTOM	907M	WIND 280	4KT WEATHER 2					
		DOMINANT WAVES	270	2 1						
90.027	⁶ 05/21/75	0311GMT	33 29.5N	117 45.5W		10	15.39	33.692		306.3
		BOTTOM	47M	WIND 240	4KT WEATHER 1					
		DOMINANT WAVES	250	4 9						
90.028	05/21/75	0425GMT	33 28.5N	117 47.0W		10	15.26	33.673		304.9
		BOTTOM	371M	WIND 230	6KT WEATHER 1					
		DOMINANT WAVES								
90.029	05/21/75	0556GMT	33 27.0N	117 49.5W		10	15.28	33.665		305.9
		BOTTOM	630M	WIND 140	3KT WEATHER 1					
		DOMINANT WAVES								

					Z	T	10 METER DATA	DT
							S	N2
90.030	05/21/75	0734GMT	33 25.0N	117 53.5W	10	15.10	33.638	304.2
		BOTTOM 648M	WIND 330	KT WEATHER 1				
		DOMINANT WAVES						
90.031	05/21/75	0910GMT	33 23.0N	117 57.5W	10	14.04	33.624	283.7
		BOTTOM 271M	WIND 100	1KT WEATHER 1				
		DOMINANT WAVES						
90.032	05/21/75	1100GMT	33 21.0N	118 01.5W	10	14.53	33.621	293.7
		BOTTOM 750M	WIND 320	4KT WEATHER 1				
		DOMINANT WAVES						
90.037	05/21/75	1434GMT	33 11.5N	118 22.5W	10	13.90	33.627	280.7
		BOTTOM 1202M	WIND 280	4KT WEATHER 1				
		DOMINANT WAVES 300	5	7				
90.053	05/22/75	0040GMT	32 39.0N	119 28.5W	10	12.62	33.597	6.18 258.4
		BOTTOM 1387M	WIND 310	20KT WEATHER 2				
		DOMINANT WAVES 300	6	7				
90.060	05/22/75	0410GMT	32 25.0N	119 58.0W	10	12.62	33.631	6.34 255.9
		BOTTOM 1021M	WIND 310	20KT WEATHER				
		DOMINANT WAVES						
90.070	05/22/75	0920GMT	32 04.5N	120 38.5W	10	12.61	33.382	6.13 274.0
		BOTTOM 4116M	WIND 320	1KT WEATHER 2				
		DOMINANT WAVES 150	7	6				
90.080	05/22/75	1356GMT	31 44.5N	121 19.5W	10	13.44	33.361	6.13 291.2
		BOTTOM 3737M	WIND 330	1KT WEATHER 2				
		DOMINANT WAVES 310	7	7				
91.026 ⁵	05/24/75	1626GMT	33 14.5N	117 27.5W	10	14.80	33.712	6.38 292.5
		BOTTOM 17M	WIND 340	KT WEATHER 2				
		DOMINANT WAVES 240	2	2				
91.026 ^{5 8}	05/24/75	1526GMT	33 14.0N	117 29.0W	10	15.56	33.722	5.94 307.7
		BOTTOM 60M	WIND 250	KT WEATHER 2				
		DOMINANT WAVES 250	2	2				
91.028 ⁵	05/24/75	1403GMT	33 11.5N	117 34.0W	10	15.40	33.716	6.30 304.7
		BOTTOM 759M	WIND 090	7KT WEATHER 2				
		DOMINANT WAVES 0						
91.029 ⁵	05/24/75	1235GMT	33 09.5N	117 38.0W	10	15.10	33.716	6.39 298.4
		BOTTOM 815M	WIND 050	5KT WEATHER 2				
		DOMINANT WAVES 0						
91.030 ⁵	05/24/75	1048GMT	33 07.5N	117 42.0W	10	14.48	33.683	6.41 288.1
		BOTTOM 833M	WIND 350	KT WEATHER				
		DOMINANT WAVES						
93.026 ⁷	05/25/75	2157GMT	32 57.0N	117 17.5W	10	14.76	33.703	6.61 292.4
		BOTTOM 32M	WIND 210	KT WEATHER 1				
		DOMINANT WAVES 110	2	2				
93.026 ⁹	05/25/75	2302GMT	32 57.0N	117 18.5W	10	14.86	33.708	6.71 294.1
		BOTTOM 65M	WIND 240	KT WEATHER 1				
		DOMINANT WAVES 270	2	2				
93.028	05/26/75	0028GMT	32 54.5N	117 22.0W	10	14.84	33.619	6.30 300.2
		BOTTOM 602M	WIND 280	KT WEATHER 1				
		DOMINANT WAVES 220	2	4				
93.029	05/26/75	0209GMT	32 52.5N	117 26.5W	10	15.35	33.670	307.0
		BOTTOM 621M	WIND 270	KT WEATHER 2				
		DOMINANT WAVES 230	2	3				
93.030	05/26/75	0346GMT	32 51.0N	117 31.5W	10	16.38	33.739	324.1
		BOTTOM 888M	WIND 250	KT WEATHER				
		DOMINANT WAVES						
93.035	05/24/75	0735GMT	32 40.5N	117 51.5W	10	14.24	33.581	6.08 290.8
		BOTTOM 611M	WIND 320	KT WEATHER				
		DOMINANT WAVES						
93.040	05/24/75	0458GMT	32 30.0N	118 11.5W	10	14.37	33.558	6.02 295.1
		BOTTOM 1756M	WIND 300	12KT WEATHER				
		DOMINANT WAVES						
93.045	05/24/75	0233GMT	32 20.0N	118 32.0W	10	14.01	33.583	286.1
		BOTTOM 1295M	WIND 300	1KT WEATHER 2				
		DOMINANT WAVES 300	3	5				
93.055	05/23/75	2020GMT	32 00.0N	119 13.5W	10	12.85	33.728	6.31 253.1
		BOTTOM 1669M	WIND 320	13KT WEATHER 2				
		DOMINANT WAVES 320	6	8				
93.060	05/23/75	1714GMT	31 50.0N	119 34.0W	10	14.22	33.501	5.97 296.3
		BOTTOM 2227M	WIND 340	17KT WEATHER 2				
		DOMINANT WAVES 340	7	6				
93.070	05/23/75	1210GMT	31 30.0N	120 14.0W	10	12.76	33.482	5.36 269.5
		BOTTOM 4116M	WIND 320	15KT WEATHER				
		DOMINANT WAVES						
93.080	05/23/75	0649GMT	31 10.0N	120 54.0W	10	13.95	6.23	
		BOTTOM 3737M	WIND 340	13KT WEATHER				
		DOMINANT WAVES 7	8					
93.090	05/23/75	0125GMT	30 50.0N	121 34.5W	10	14.23	33.349	5.25 307.6
		BOTTOM 4212M	WIND 350	17KT WEATHER 1				
		DOMINANT WAVES 290	7	8				

						Z	T	10 METER S	DATA N2	DT
95.028	05/26/75	1325GMT	32 37.0N	117 10.5W		10	13.96	33.713		275.5
		BOTTOM	19M	WIND 250	4KT WEATHER 2					
		DOMINANT WAVES	210	1 2						
95.029	05/26/75	1156GMT	32 35.0N	117 14.5W		10	14.33	33.696		284.2
		BOTTOM	47M	WIND 200	5KT WEATHER					
		DOMINANT WAVES								
95.030	05/26/75	1028GMT	32 33.0N	117 18.5W		10	13.92	33.650		279.4
		BOTTOM	168M	WIND 280	4KT WEATHER					
		DOMINANT WAVES								
95.031	05/26/75	0830GMT	32 31.0N	117 22.5W		10	13.74	33.648		276.0
		BOTTOM	685M	WIND 210	6KT WEATHER					
		DOMINANT WAVES								
95.032	05/26/75	0651GMT	32 29.0N	117 27.0W		10	13.81	33.643		277.7
		BOTTOM	1128M	WIND 220	6KT WEATHER					
		DOMINANT WAVES								
97.028 ^B	05/26/75	1615GMT	32 18.0N	117 04.0W		10	14.66	33.712		289.7
		BOTTOM	39M	WIND	WEATHER					
		DOMINANT WAVES								
97.029	05/26/75	1650GMT	32 17.5N	117 04.5W		10	14.50	33.686		288.3
		BOTTOM	50M	WIND 300	8KT WEATHER 2					
		DOMINANT WAVES								
97.030	05/26/75	1732GMT	32 16.0N	117 07.0W		10	14.76	33.676		294.3
		BOTTOM	58M	WIND 300	8KT WEATHER 2					
		DOMINANT WAVES	240	5 7						
97.031	05/26/75	1831GMT	32 13.0N	117 13.5W		10	14.78	33.627		298.3
		BOTTOM	1295M	WIND 310	8KT WEATHER 2					
		DOMINANT WAVES	230	2 3						
97.032	05/26/75	1938GMT	32 12.0N	117 15.0W		10	15.25	33.636		307.4
		BOTTOM	556M	WIND 250	8KT WEATHER 2					
		DOMINANT WAVES	260	2 4						
97.035	05/26/75	2146GMT	32 05.5N	117 27.5W		10	15.42	33.684		307.5
		BOTTOM	1202M	WIND 260	10KT WEATHER 2					
		DOMINANT WAVES	250	6 7						
97.040	05/27/75	0037GMT	31 56.0N	117 48.0W		10	14.72	33.578		300.7
		BOTTOM	1572M	WIND 290	11KT WEATHER 2					
		DOMINANT WAVES	240	3 8						
97.045	05/27/75	0317GMT	31 46.0N	118 08.5W		10	14.98			
		BOTTOM	1664M	WIND 300	8KT WEATHER 2					
		DOMINANT WAVES								
97.050	05/27/75	0559GMT	31 36.0N	118 30.5W		10	14.74	33.581		300.9
		BOTTOM	2509M	WIND 300	8KT WEATHER					
		DOMINANT WAVES								
97.055	05/27/75	0822GMT	31 25.5N	118 49.5W		10	14.37	33.542		296.3
		BOTTOM	668M	WIND 280	8KT WEATHER					
		DOMINANT WAVES								
97.070	05/27/75	1635GMT	30 55.0N	119 50.0W		10	14.94	33.529		308.8
		BOTTOM	3737M	WIND 330	14KT WEATHER 2					
		DOMINANT WAVES	300	3 4						
97.080	05/27/75	2108GMT	30 35.5N	120 31.0W		10	14.19	33.389	5.40	303.9
		BOTTOM	4116M	WIND 310	12KT WEATHER 0					
		DOMINANT WAVES	300	4 6						
97.090	05/28/75	0152GMT	30 16.0N	121 10.0W		10	15.16	33.470	5.89	317.7
		BOTTOM	4021M	WIND 320	21KT WEATHER 0					
		DOMINANT WAVES	310	4 7						
100.029	05/29/75	1134GMT	31 42.0N	116 43.5W		10	11.34	33.695		228.2
		BOTTOM	157M	WIND 210	4KT WEATHER					
		DOMINANT WAVES								
100.030	05/29/75	1005GMT	31 40.5N	116 46.5W		10	12.45	33.741	3.16	244.7
		BOTTOM	427M	WIND 300	4KT WEATHER					
		DOMINANT WAVES								
100.031	05/29/75	0858GMT	31 38.5N	116 50.5W		10	15.14	33.647		304.3
		BOTTOM	106M	WIND 290	8KT WEATHER					
		DOMINANT WAVES								
100.032	05/29/75	0750GMT	31 36.5N	116 54.5W		10	15.54	33.648		312.6
		BOTTOM	1202M	WIND 300	8KT WEATHER 2					
		DOMINANT WAVES								
100.035	05/29/75	0600GMT	31 30.5N	117 07.0W		10	14.84	33.589	5.94	302.4
		BOTTOM	1128M	WIND 340	4KT WEATHER					
		DOMINANT WAVES								
100.040	05/29/75	0304GMT	31 21.0N	117 27.0W		10	14.79	33.587	6.04	301.5
		BOTTOM	1849M	WIND 250	6KT WEATHER 2					
		DOMINANT WAVES	270	3 6						
100.050	05/28/75	2223GMT	31 00.5N	118 07.0W		10	14.48	33.542	6.11	298.5
		BOTTOM	1856M	WIND 200	3KT WEATHER 2					
		DOMINANT WAVES	310	3 6						
100.060	05/28/75	1804GMT	30 40.5N	118 47.5W		10	15.67	33.718	5.82	310.3
		BOTTOM	3169M	WIND 320	6KT WEATHER 2					
		DOMINANT WAVES	290	4 5						

								10 METER	DATA	
								S	DT	DT
100.080	05/28/75	0736GMT	30 01.0N	120 07.0W						
		BOTTOM	4116M	WIND 340	27KT	WEATHER				
		DOMINANT	WAVES							
103.028 ^A	05/29/75	1542GMT	31 07.5N	116 20.0W						
		BOTTOM	19M	WIND 160	3KT	WEATHER 2				
		DOMINANT	WAVES	230	2 6					236.6
103.029	05/29/75	1610GMT	31 07.0N	116 21.0W						
		BOTTOM	30M	WIND 160	3KT	WEATHER 2				
		DOMINANT	WAVES	230	2 6					268.7
103.030	05/29/75	1654GMT	31 06.0N	116 24.5W						
		BOTTOM	65M	WIND 300	4KT	WEATHER 2				
		DOMINANT	WAVES	230	2 6					7.01 270.1
103.031	05/29/75	1806GMT	31 03.5N	116 29.5W						
		BOTTOM	103M	WIND 260	7KT	WEATHER 2				
		DOMINANT	WAVES	320	2 4					277.5
103.032	05/29/75	1853GMT	31 02.0N	116 32.5W						
		BOTTOM	464M	WIND 260	4KT	WEATHER 2				
		DOMINANT	WAVES	270	3 4					270.5
103.040	05/30/75	0031GMT	30 46.0N	117 04.5W						
		BOTTOM	1949M	WIND 300	6KT	WEATHER 2				
		DOMINANT	WAVES	290	4 7					6.31 296.0
103.045	05/30/75	0314GMT	30 36.0N	117 24.0W						
		BOTTOM	2042M	WIND 340	4KT	WEATHER 2				
		DOMINANT	WAVES	330	3 7					307.7
103.050	05/30/75	0557GMT	30 26.0N	117 45.0W						
		BOTTOM	2790M	WIND 260	4KT	WEATHER				
		DOMINANT	WAVES	330	3 7					5.08 308.5
103.060	05/30/75	1102GMT	30 06.0N	118 25.0W						
		BOTTOM	2980M	WIND 210	3KT	WEATHER				
		DOMINANT	WAVES							5.90 309.7
103.070	05/30/75	1526GMT	29 46.0N	119 05.0W						
		BOTTOM	3545M	WIND 230	4KT	WEATHER 2				
		DOMINANT	WAVES	240	3 7					6.04 312.5
107.030 ³	06/01/75	0614GMT	30 24.5N	116 04.0W						
		BOTTOM	19M	WIND 320	14KT	WEATHER				
		DOMINANT	WAVES							280.1
107.030 ⁶	06/01/75	0544GMT	30 28.5N	116 05.5W						
		BOTTOM	21M	WIND 340	15KT	WEATHER				
		DOMINANT	WAVES							289.9
107.031	06/01/75	0511GMT	30 28.0N	116 07.0W						
		BOTTOM	39M	WIND 330	17KT	WEATHER				
		DOMINANT	WAVES							270.0
107.032	06/01/75	0414GMT	30 26.0N	116 11.0W						
		BOTTOM	371M	WIND 330	14KT	WEATHER				
		DOMINANT	WAVES							6.19 301.6
107.033	06/01/75	0259GMT	30 24.0N	116 15.0W						
		BOTTOM	1572M	WIND 330	14KT	WEATHER 2				
		DOMINANT	WAVES	330	4 7					309.9
107.034	06/01/75	0158GMT	30 22.5N	116 19.5W						
		BOTTOM	1756M	WIND 330	12KT	WEATHER 2				
		DOMINANT	WAVES	330	4 7					312.7
107.035	06/01/75	0038GMT	30 21.0N	116 22.0W						
		BOTTOM	1756M	WIND 320	14KT	WEATHER 2				
		DOMINANT	WAVES	330	4 7					5.91 309.1
107.050	05/31/75	1537GMT	29 50.0N	117 25.0W						
		BOTTOM	2602M	WIND 350	12KT	WEATHER 2				
		DOMINANT	WAVES	320	2 2					6.00 309.0
107.060	05/21/75	1053GMT	29 31.5N	118 01.5W						
		BOTTOM	3545M	WIND 320	17KT	WEATHER				
		DOMINANT	WAVES							5.85 308.9
107.070	05/31/75	0601GMT	29 11.0N	118 41.0W						
		BOTTOM	2980M	WIND 320	14KT	WEATHER				
		DOMINANT	WAVES							3.77 311.8
107.080	05/31/75	0142GMT	28 51.5N	119 20.0W						
		BOTTOM	3737M	WIND 270	2KT	WEATHER 2				
		DOMINANT	WAVES	340	4 6					5.72 317.4
110.032 ⁴	06/01/75	0946GMT	29 51.0N	115 49.5W						
		BOTTOM	43M	WIND 340	14KT	WEATHER				
		DOMINANT	WAVES							287.0
110.033	06/01/75	1028GMT	29 50.0N	115 52.0W						
		BOTTOM	71M	WIND 330	20KT	WEATHER				
		DOMINANT	WAVES							297.6
110.034	06/01/75	1114GMT	29 48.5N	115 56.0W						
		BOTTOM	929M	WIND 330	21KT	WEATHER				
		DOMINANT	WAVES							309.6
110.035	06/01/75	1236GMT	29 46.0N	116 00.0W						
		BOTTOM	1298M	WIND 330	21KT	WEATHER				
		DOMINANT	WAVES							5.88 309.3

						10 METER DATA			
				Z	T	S	P2	DT	
110.040	06/01/75 1530GMT 29 36.0N 116 20.0W BOTTOM 2415M WIND 330 22KT WEATHER 2 DOMINANT WAVES 120 5 8	10	15.22	33.664	5.89	304.7			
110.045	06/01/75 1800GMT 29 27.5N 116 40.0W BOTTOM 502M WIND 330 17KT WEATHER 2 DOMINANT WAVES 130 5 6	10	15.22	33.669		304.4			
110.055	06/02/75 0008GMT 29 06.5N 117 19.0W BOTTOM 3461M WIND 340 17KT WEATHER 2 DOMINANT WAVES 340 5 8	10	15.56	33.659		312.3			
110.060	06/02/75 0252GMT 28 56.5N 117 39.0W BOTTOM 3545M WIND 340 14KT WEATHER 2 DOMINANT WAVES 340 5 8	10	15.77	33.619	5.81	319.6			
110.070	06/02/75 0752GMT 28 36.5N 118 18.0W BOTTOM 3926M WIND 320 17 WEATHER DOMINANT WAVES	10	15.70	33.640	5.86	316.6			
110.080	06/02/75 1232GMT 28 16.5N 118 57.0W BOTTOM 3926M WIND 320 14KT WEATHER DOMINANT WAVES	10	15.96	33.675	5.78	319.6			
113.028	06/03/75 2027GMT 29 25.0N 115 12.5W BOTTOM 21M WIND 280 20KT WEATHER 1 DOMINANT WAVES 300 2 3	10	13.06	33.805		251.4			
113.029	06/03/75 2000GMT 29 24.5N 115 13.5W BOTTOM 28M WIND 270 17KT WEATHER 1 DOMINANT WAVES 320 2 3	10	12.76	33.795		246.5			
113.030	06/03/75 1910GMT 29 22.0N 115 18.0W BOTTOM 60M WIND 300 15KT WEATHER 2 DOMINANT WAVES 310 4 3	10	13.38	33.789		258.6			
113.031	06/03/75 1824GMT 29 20.5N 115 21.5W BOTTOM 84M WIND 310 13KT WEATHER 2 DOMINANT WAVES 300 5 4	10	13.41	33.771		260.6			
113.032	06/03/75 1733GMT 29 17.5N 115 25.5W BOTTOM 108M WIND 330 11KT WEATHER 2 DOMINANT WAVES 310 5 5	10	13.31	33.803		256.3			
113.035	06/03/75 1523GMT 29 11.0N 115 38.0W BOTTOM 1485M WIND 310 13KT WEATHER 2 DOMINANT WAVES 310 5 7	10	14.90	33.601	5.94	302.7			
113.040	06/03/75 1248GMT 29 02.0N 115 56.0W BOTTOM 1856M WIND 330 12KT WEATHER DOMINANT WAVES	10	15.57	33.644	5.93	313.6			
113.045	06/03/75 1012GMT 28 52.0N 116 18.0W BOTTOM 2227M WIND 340 14KT WEATHER DOMINANT WAVES	10	15.57	33.622		315.2			
113.050	06/03/75 0730GMT 28 41.5N 116 37.0W BOTTOM 3737M WIND 310 17KT WEATHER DOMINANT WAVES	10	15.48	33.610	5.84	314.1			
113.060	06/03/75 0250GMT 28 25.0N 117 17.0W BOTTOM 3641M WIND 310 14KT WEATHER 2 DOMINANT WAVES 320 3 4	10	15.80	33.647	5.80	318.3			
113.080	06/02/75 1708GMT 27 42.0N 118 33.0W BOTTOM 3926M WIND 330 12KT WEATHER 2 DOMINANT WAVES 330 5 7	10	16.26	33.695	5.73	324.7			
117.025	06/04/75 0019GMT 28 58.0N 114 37.0W BOTTOM 54M WIND 290 12KT WEATHER 1 DOMINANT WAVES 300 5 5	10	14.04	33.739		275.2			
117.026	06/04/75 0100GMT 28 56.0N 114 41.5W BOTTOM 75M WIND 290 17KT WEATHER 1 DOMINANT WAVES 290 5 5	10	14.48	33.737		284.2			
117.027	06/04/75 0143GMT 28 54.0N 114 45.0W BOTTOM 82M WIND 300 14KT WEATHER 1 DOMINANT WAVES 290 4 5	10	15.08	33.751		295.5			
117.028	06/04/75 0227GMT 28 52.0N 114 49.0W BOTTOM 90M WIND 300 14KT WEATHER 1 DOMINANT WAVES 300 4 5	10	15.65	33.770		306.1			
117.030	06/04/75 0340GMT 28 48.0N 114 56.5W BOTTOM 103M WIND 280 14KT WEATHER DOMINANT WAVES	10	15.24	33.785		296.3			
117.035	06/04/75 0546GMT 28 38.0N 115 16.0W BOTTOM 196M WIND 290 14KT WEATHER DOMINANT WAVES	10	14.54	33.566	6.07	297.9			
117.040	06/04/75 1024GMT 28 28.0N 115 35.5W BOTTOM 1021M WIND 260 7KT WEATHER DOMINANT WAVES	10	15.36	33.602	5.87	312.2			
117.045	06/04/75 1309GMT 28 18.0N 115 56.0W BOTTOM 3737M WIND 310 12KT WEATHER 1 DOMINANT WAVES 310 4 6	10	15.24	33.574		311.7			
117.060	06/04/75 2006GMT 27 48.0N 116 53.0W BOTTOM 3832M WIND 330 14KT WEATHER 1 DOMINANT WAVES 310 4 6	10	15.47	33.613	5.86	313.7			

					Z	T	10 METER S	DATA N2	DT
117.070	06/05/75	0056GMT	27 27.5N	117 33.0W	10	16.66	33.795	5.68	326.2
		BOTTOM	3926M	WIND 330	4KT	WEATHER 1			
		DOMINANT WAVES	300	4	5				
117.080	06/05/75	0513GMT	27 08.0N	118 10.0W	10	16.28	33.658		327.8
		BOTTOM	4308M	WIND 330	6KT	WEATHER			
		DOMINANT WAVES							
118.039	06/04/75	0814GMT	28 18.5N	115 23.5W	10	14.98	33.563		307.2
		BOTTOM	260M	WIND 310	6KT	WEATHER			
		DOMINANT WAVES							
119.033	06/06/75	1125GMT	28 19.0N	114 53.0W	10	15.14	33.795		293.5
		BOTTOM	110M	WIND 320	12KT	WEATHER			
		DOMINANT WAVES							
120.022 ⁴	06/07/75	1859GMT	28 28.0N	114 04.5W	10	14.12	33.728		277.6
		BOTTOM	17M	WIND		WEATHER			
		DOMINANT WAVES							
120.022 ⁷	06/06/75	1840GMT	28 27.5N	114 05.5W	10	14.56	33.740		285.6
		BOTTOM	21M	WIND		WEATHER			
		DOMINANT WAVES							
120.023	06/06/75	1810GMT	28 27.0N	114 07.0W	10	14.72	33.738		289.0
		BOTTOM	22M	WIND 320	12KT	WEATHER 2			
		DOMINANT WAVES	280	2	2				
120.024	06/06/75	1728GMT	28 25.0N	114 10.5W	10	15.90	33.763		311.9
		BOTTOM	34M	WIND 350	8KT	WEATHER 1			
		DOMINANT WAVES	310	2	6				
120.025	06/06/75	1643GMT	28 22.5N	114 15.0W	10	16.01	33.784		312.8
		BOTTOM	58M	WIND 350	8KT	WEATHER 2			
		DOMINANT WAVES	310	3	6				
120.026	06/06/75	1521GMT	28 22.0N	114 18.0W	10		33.799		
		BOTTOM	80M	WIND 350	4KT	WEATHER 2			
		DOMINANT WAVES	310	3	6				
120.030	06/06/75	1329GMT	28 13.0N	114 34.0W	10	15.22	33.805		294.4
		BOTTOM	95M	WIND 320	13KT	WEATHER 1			
		DOMINANT WAVES	310	3	5				
120.035	06/06/75	0827GMT	28 03.0N	114 54.0W	10	14.91	33.673		297.7
		BOTTOM	82M	WIND 330	11KT	WEATHER			
		DOMINANT WAVES							
120.040	06/06/75	0610GMT	27 56.5N	115 14.0W	10	15.89	33.737		313.6
		BOTTOM	39M	WIND 320	15KT	WEATHER			
		DOMINANT WAVES							
120.045	06/06/75	0327GMT	27 43.0N	115 33.0W	10	15.41	33.672	6.19	308.2
		BOTTOM	2415M	WIND 330	13KT	WEATHER			
		DOMINANT WAVES							
120.050	06/06/75	0026GMT	27 33.0N	115 52.5W	10	15.18	33.571	6.00	310.7
		BOTTOM	3926M	WIND 340	10KT	WEATHER 1			
		DOMINANT WAVES	260	4	6				
120.060	06/05/75	1946GMT	27 13.0N	116 30.5W	10	15.26	33.675	6.16	304.8
		BOTTOM	3926M	WIND 260	8KT	WEATHER 2			
		DOMINANT WAVES	260	3	4				
120.080	06/05/75	0954GMT	26 32.5N	117 48.5W	10	16.73	33.783	5.70	328.6
		BOTTOM	4021M	WIND 360	10KT	WEATHER			
		DOMINANT WAVES							