

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

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

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

Sponsored by
Marine Research Committee

SIO Reference 84-13
15 June 1984

Approved for distribution:

W. A. Nierenberg
W. A. Nierenberg, Director

CONTENTS

Introduction	3
Literature Cited	5
Cruise 7505	
List of Figures	8
Personnel	18
Tabulated Data	19
10 Meter Data	52
Cruise 7506	
Personnel	61
Tabulated Data	62
10 Meter Data	69
Cruise 7507	
List of Figures	71
Personnel	81
Tabulated Data	82
10 Meter Data	133
Cruise 7509	
List of Figures	143
Personnel	148
Tabulated Data	149
Cruise 7510	
List of Figures	159
Personnel	169
Tabulated Data	170
10 Meter Data	212
Cruise 7512	
List of Figures	222
Personnel	227
Tabulated Data	228
Distribution List	235

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 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	‰
O ₂	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 density the parcel of sea water would have	g/L
or		
SIGMA T	if moved isothermally to the sea surface.	
DD	Geopotential anomaly, referred to the sea surface.	dynamic meters

FOOTNOTES

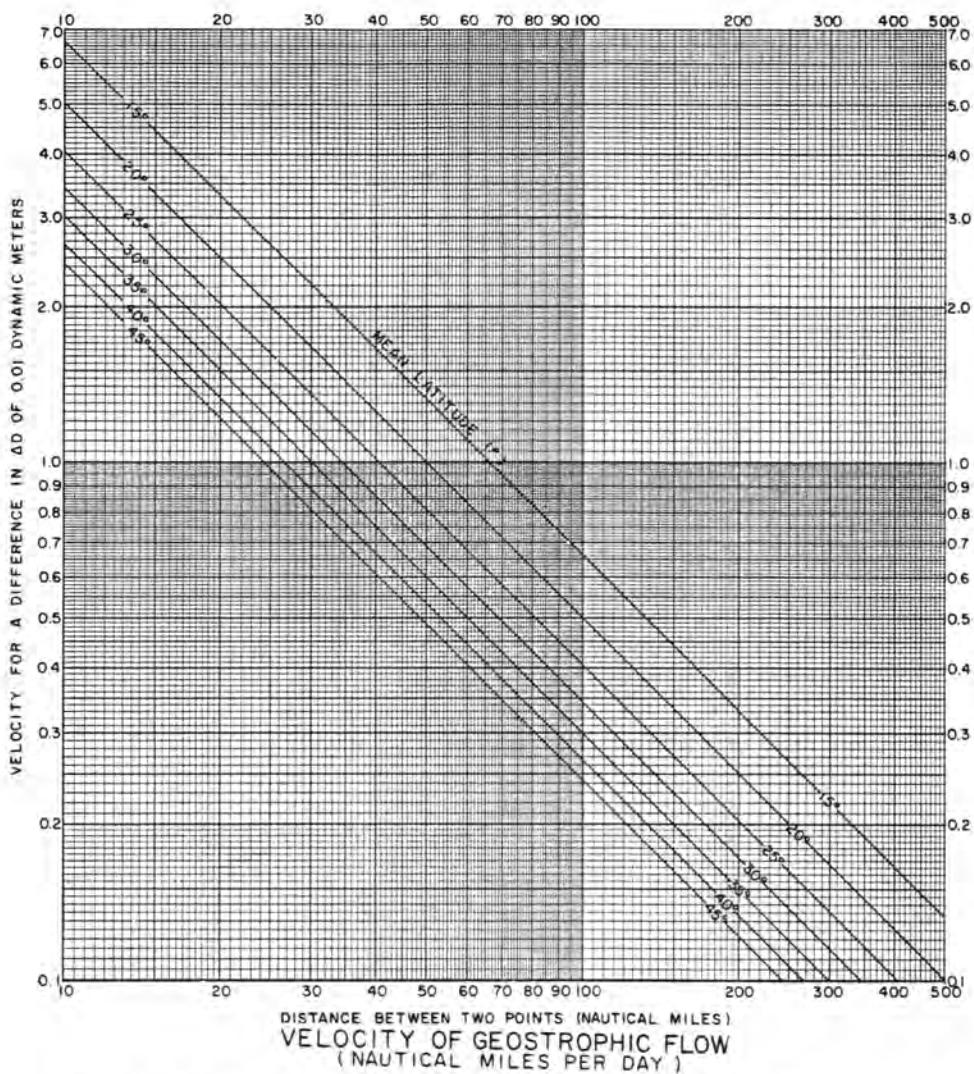
In addition to explicit footnotes, the following notations have been used.

P: Nansen bottle poststripped.

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

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

1 cm/sec = 0.019 kts = 0.466 NAUTICAL MILES / DAY

1 kts = 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.

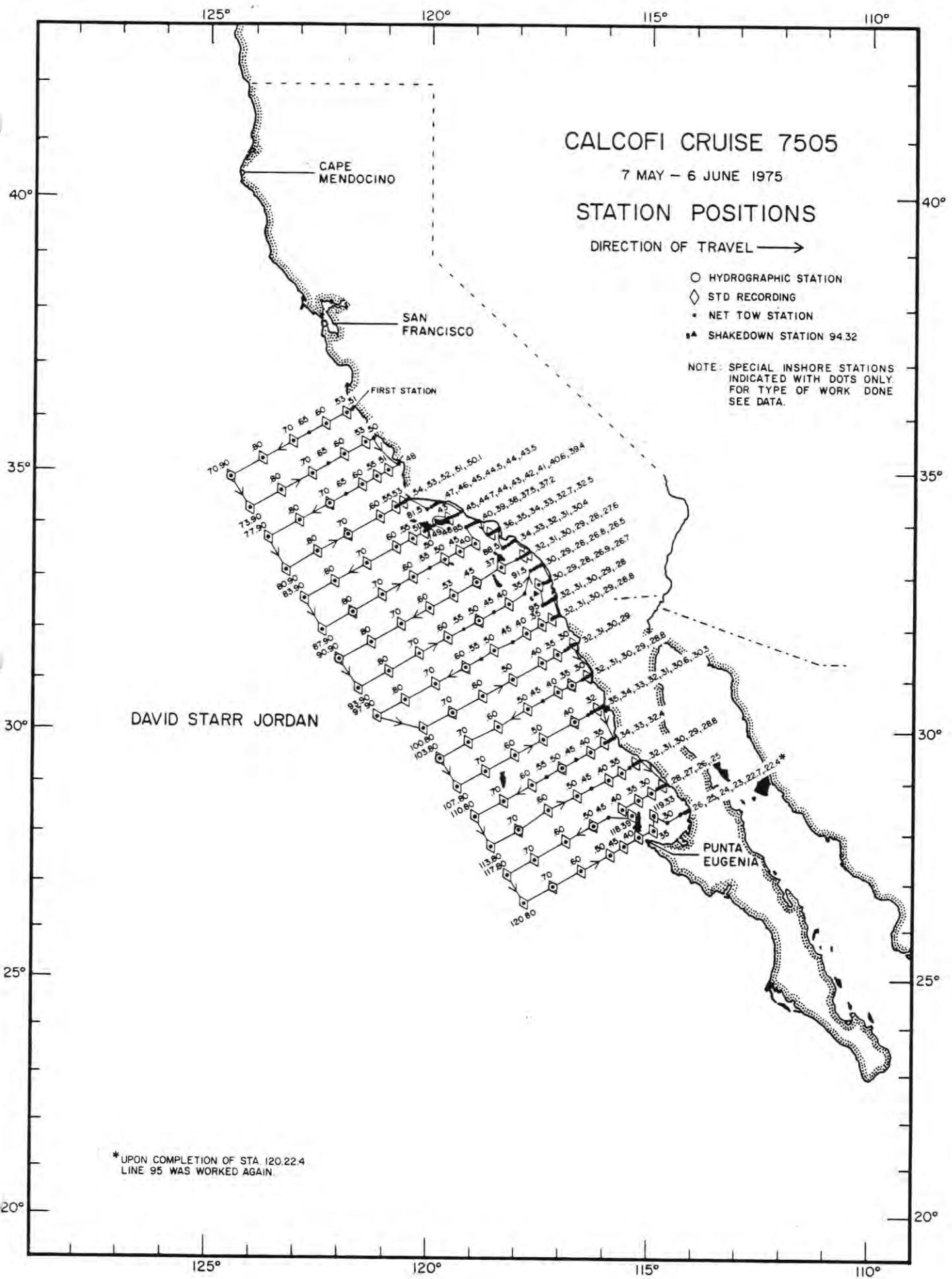


FIGURE I

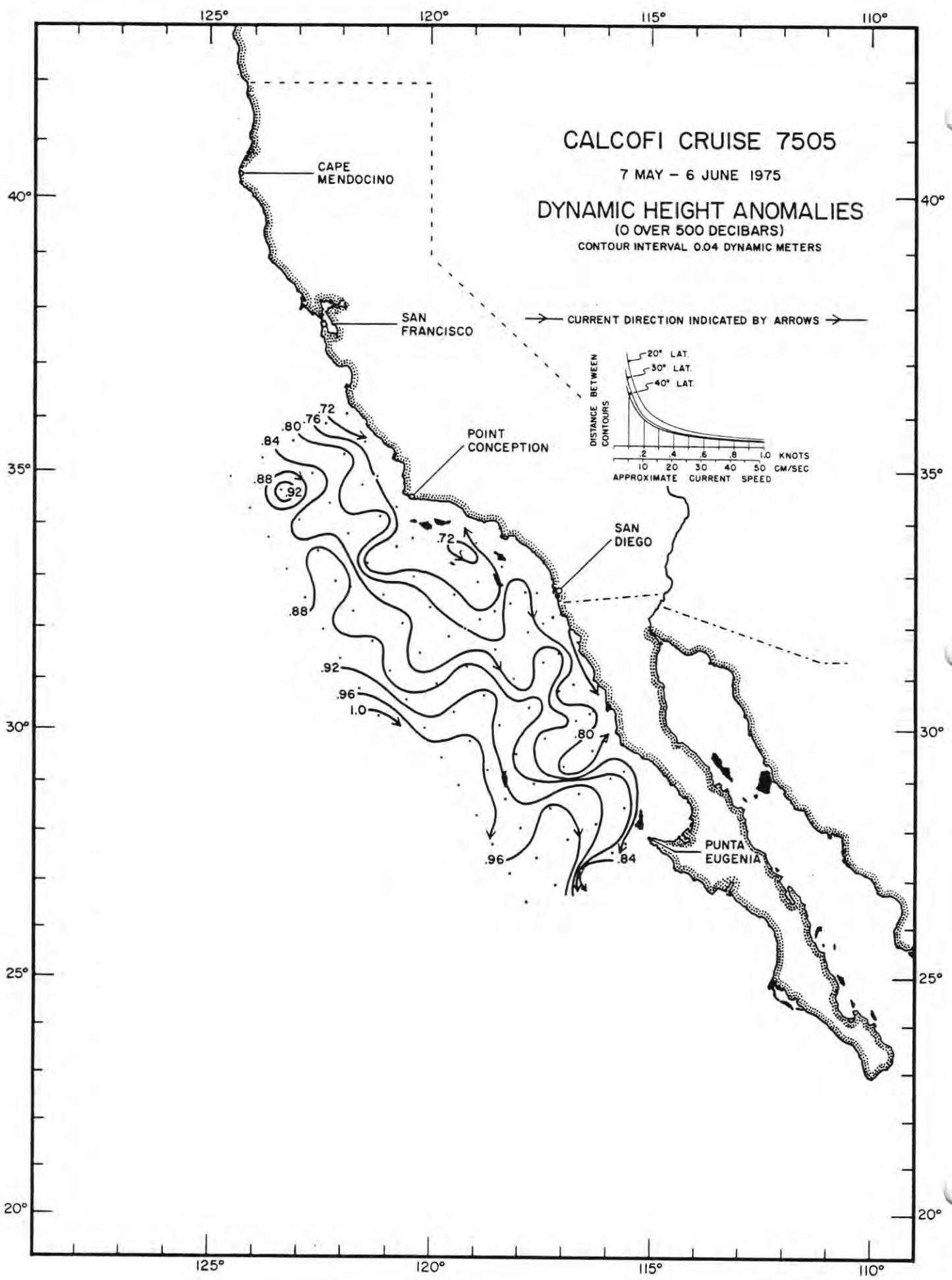


FIGURE 2

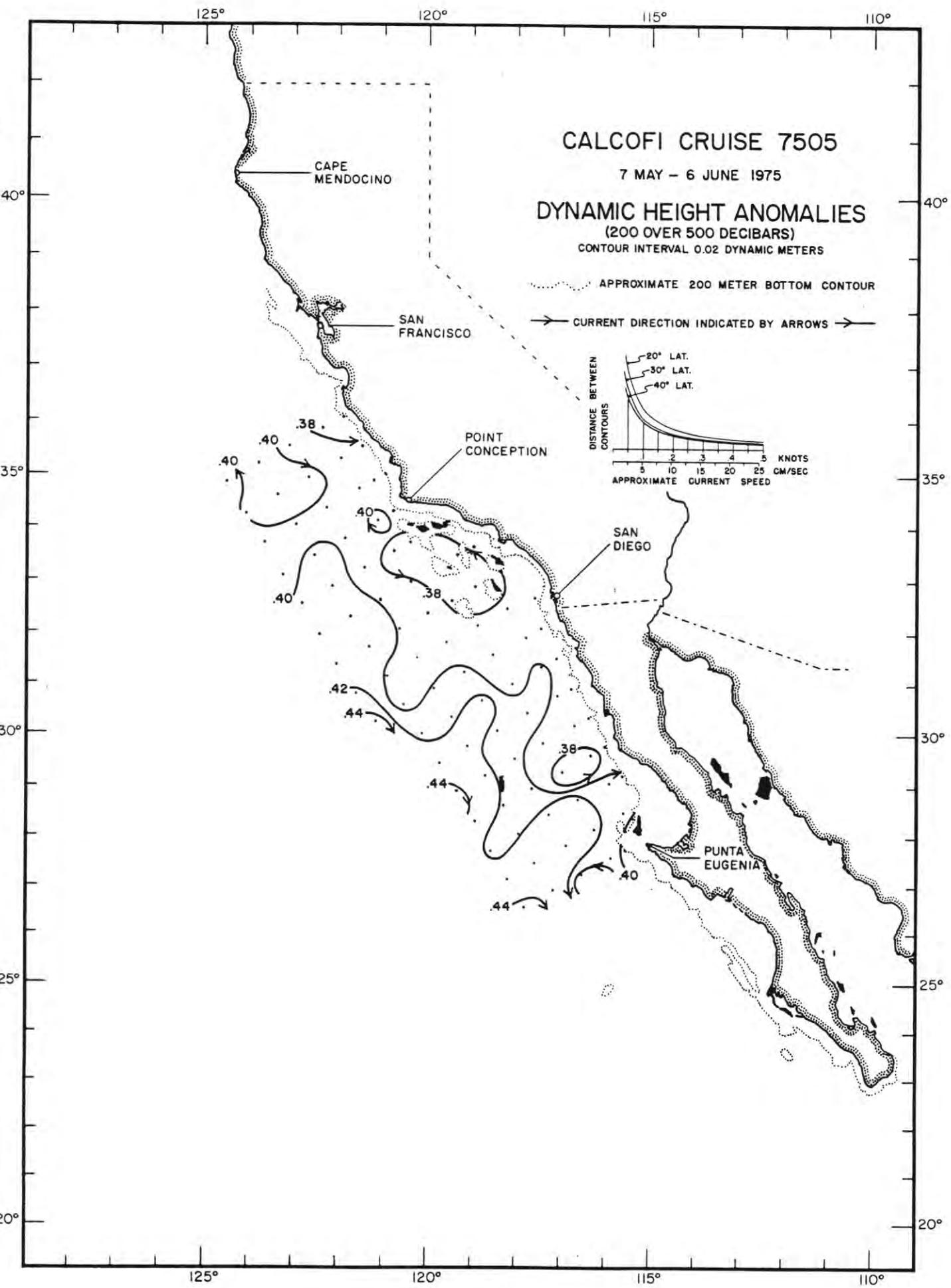


FIGURE 3

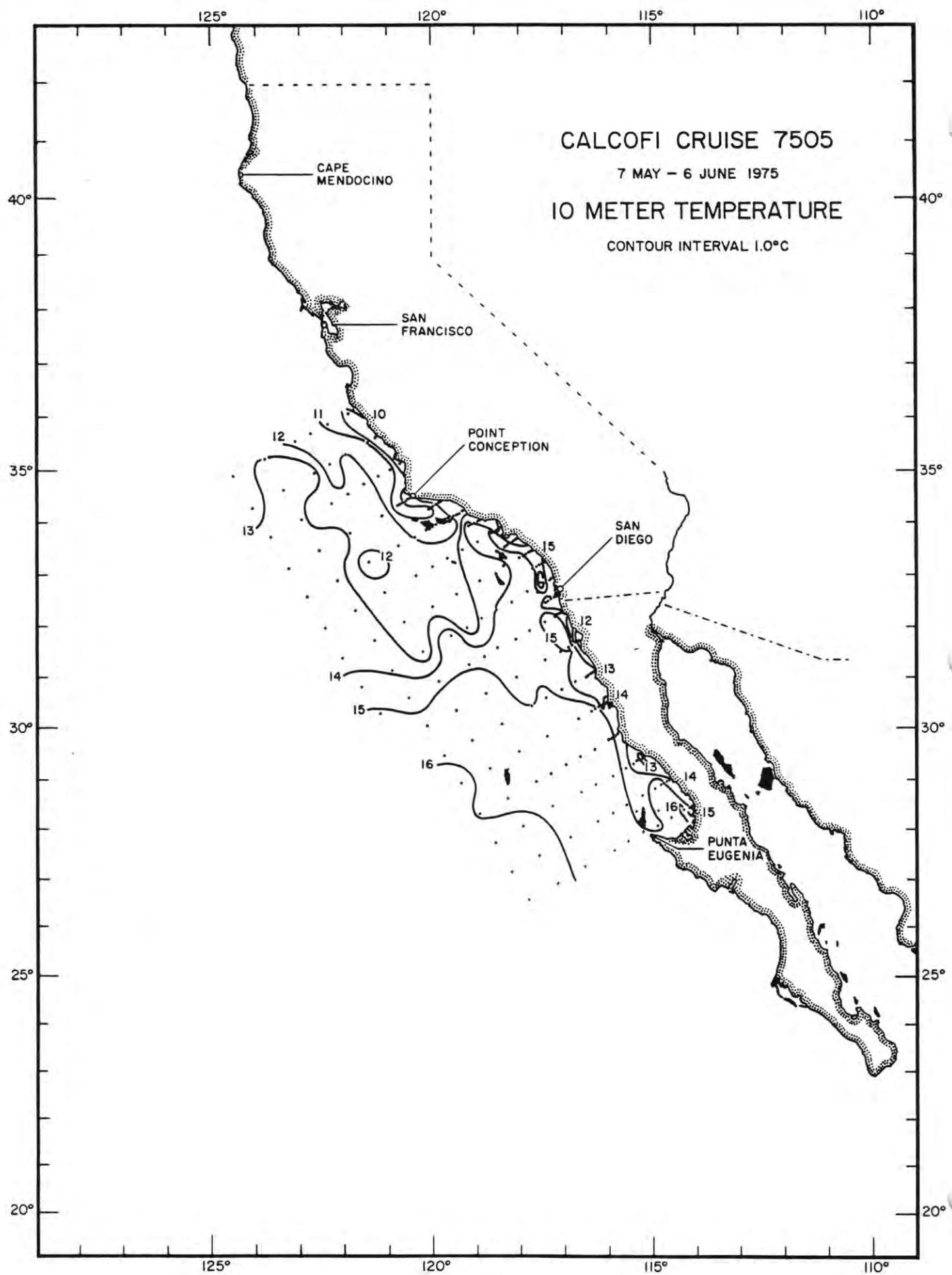


FIGURE 4

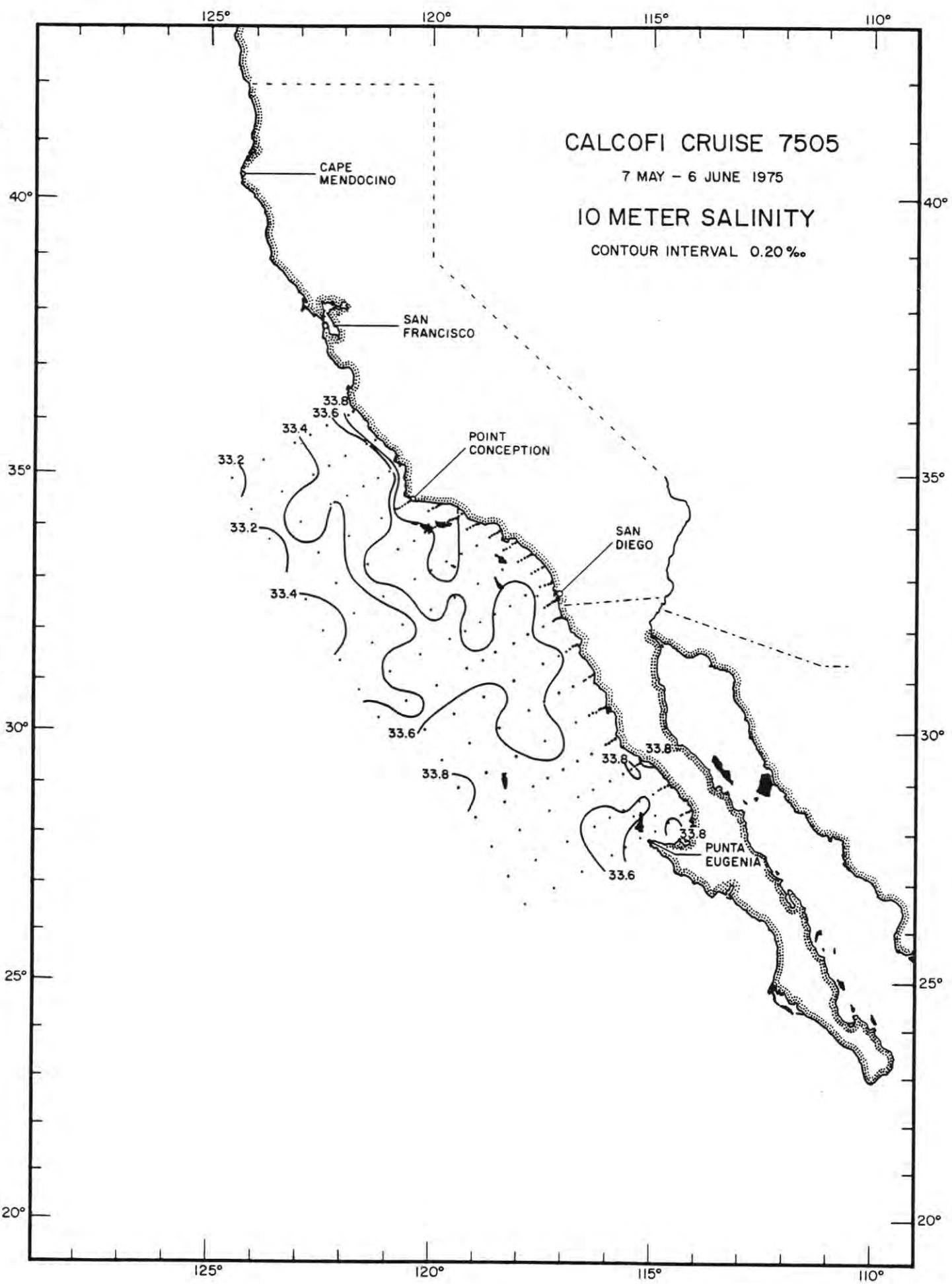


FIGURE 5

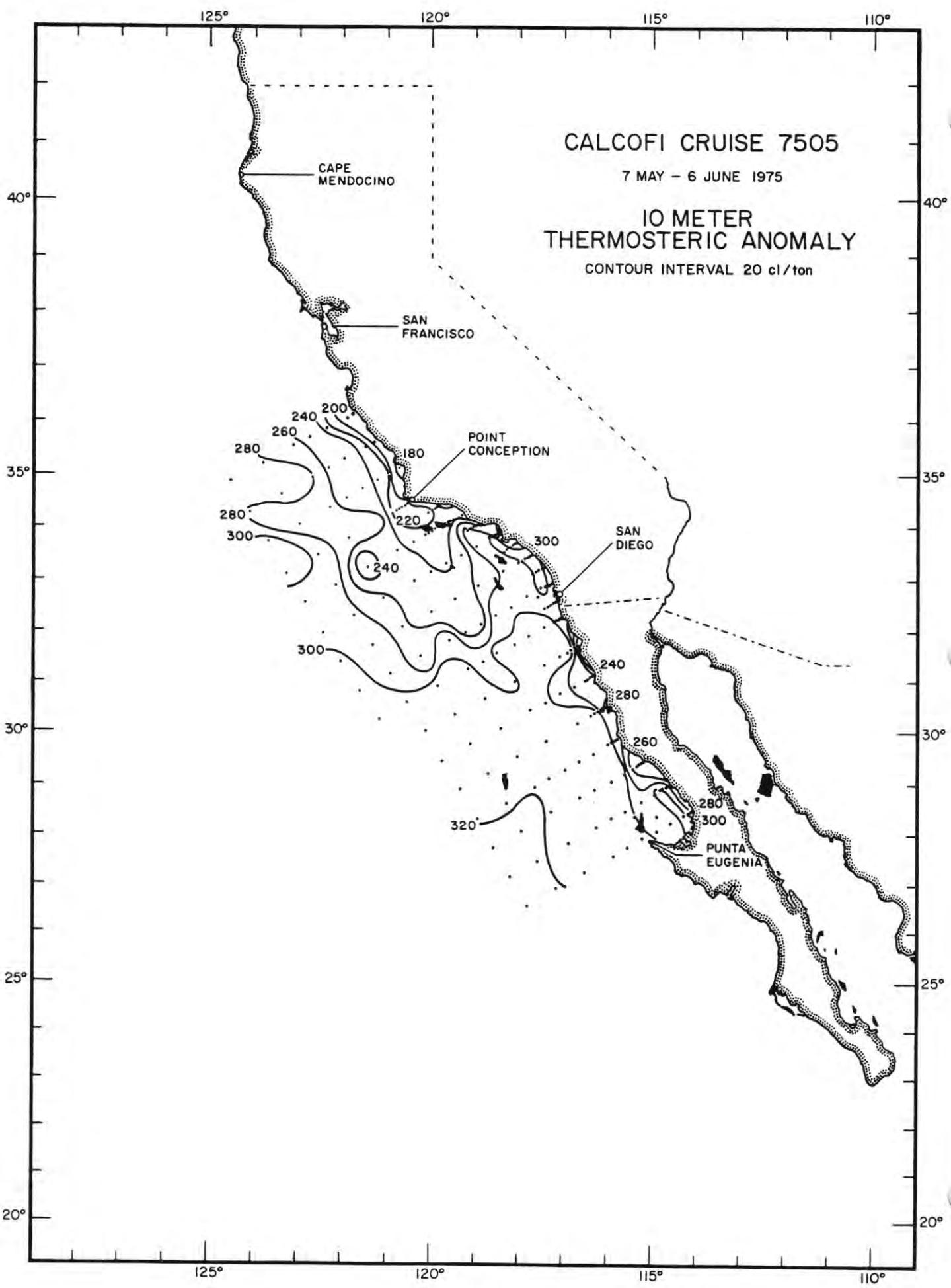


FIGURE 6

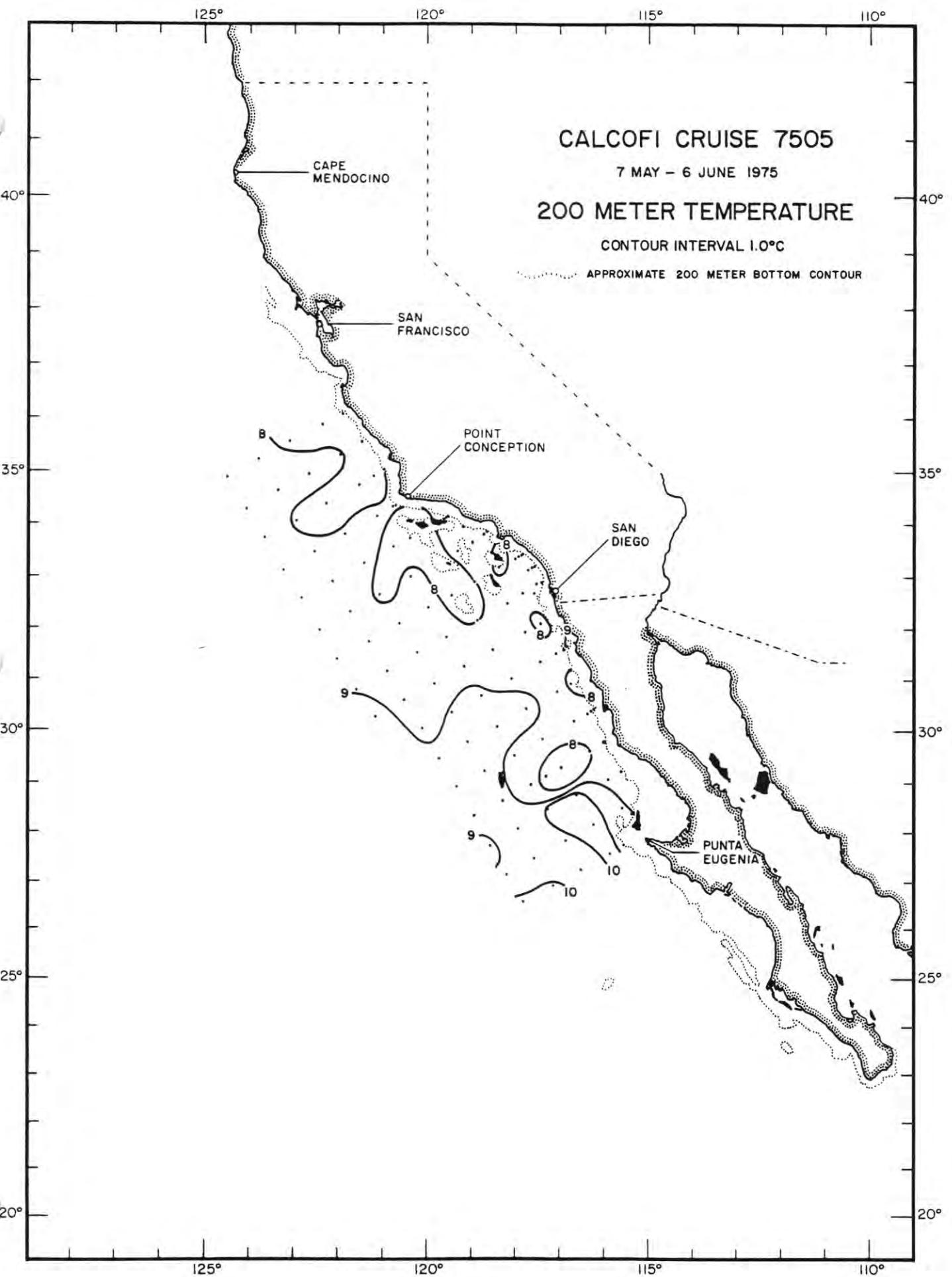


FIGURE 7

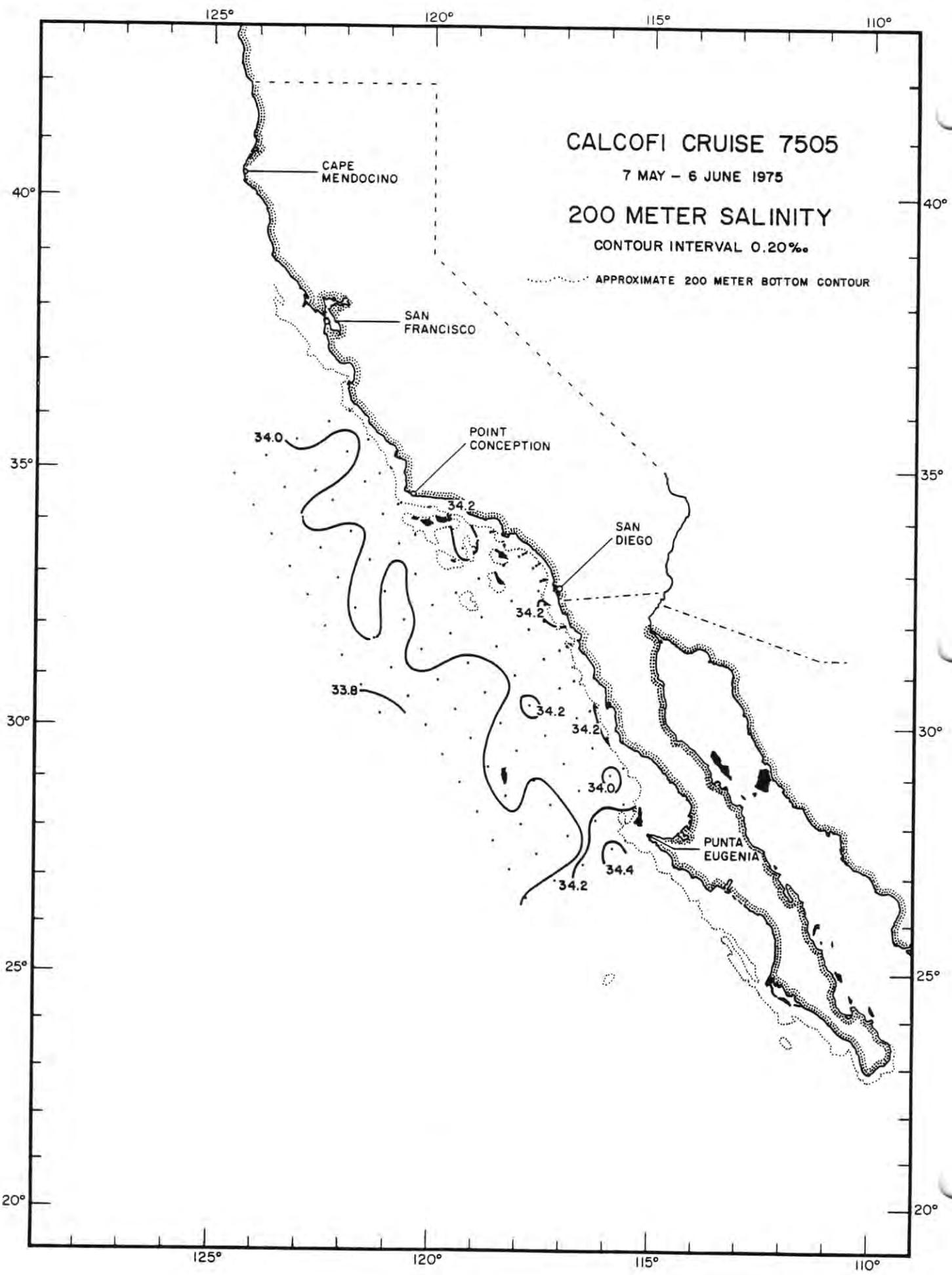


FIGURE 8

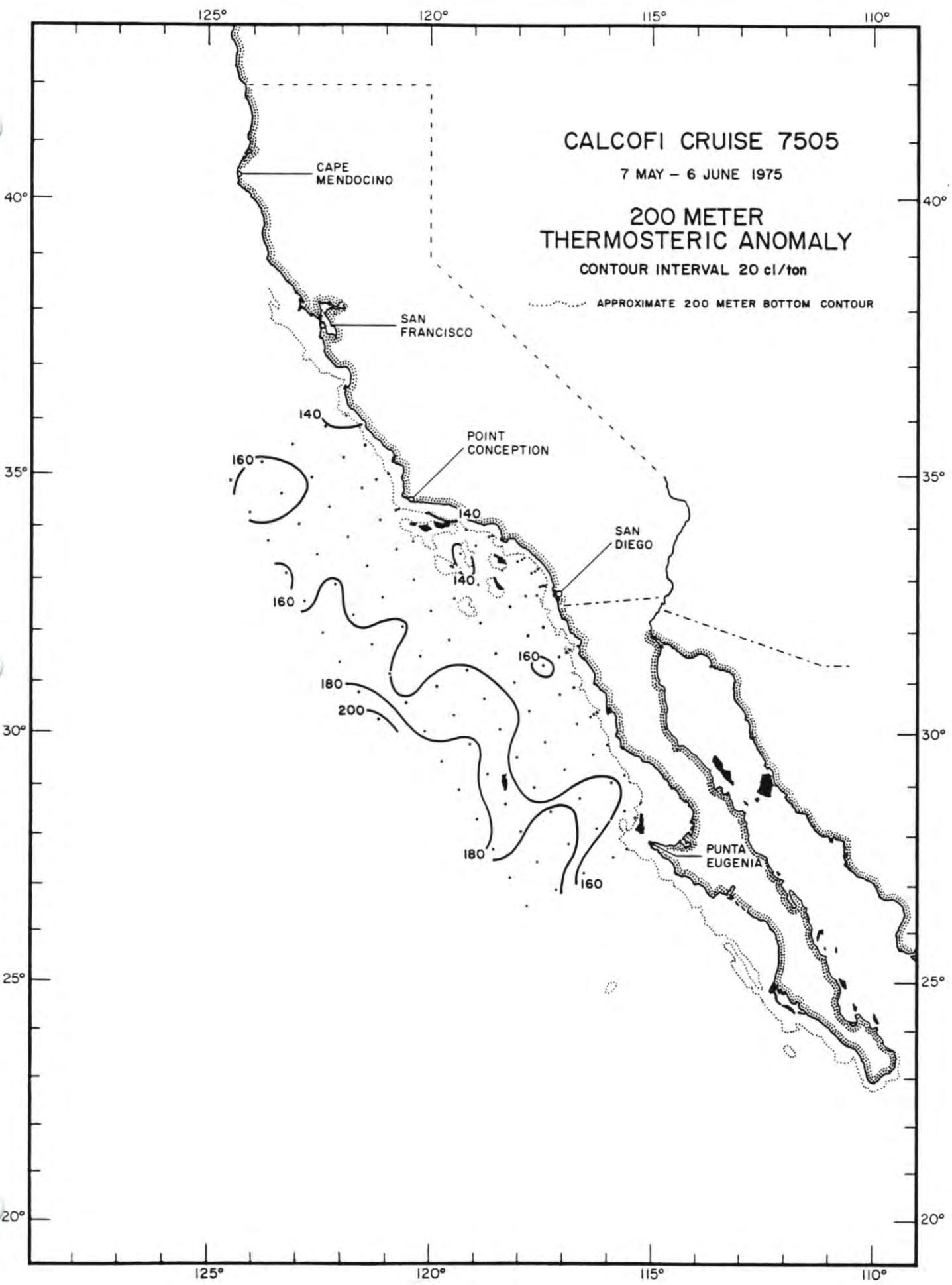


FIGURE 9

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
Metoyer, 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					CALCOFI CRUISE 7505					70060						
LATITUDE	LONGITUDE	MO/DY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
36 06.5N	121 54.0W	05/10/75	0236 GMT		35 53.0N	122 23.0W	05/10/75	0604 GMT.		0	9.95	33.87	26.099	192.1	0.000	0	10.97	33.42	25.573	242.2	0.000
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES		10	9.82	33.87	26.121	190.1	0.019	10	10.88	33.43	25.596	239.9	0.024
1073M	340	13KT	2	340 4 9	3163M	320	9KT	2	320 2 8	20	9.28	33.88	26.218	180.9	0.037	20	10.22	33.50	25.765	223.8	0.047
										30	9.02	33.92	26.291	173.9	0.055	30	10.17	33.58	25.836	217.1	0.069
										40	8.84	33.97	26.358	167.5	0.072	40	10.03	33.62	25.891	211.9	0.090
										50	8.78	33.98	26.375	165.9	0.093	50	9.78	33.66	25.964	205.0	0.111
										75	8.67	33.98	26.392	164.3	0.130	75	8.88	33.87	26.274	175.5	0.159
										100	8.65	34.00	26.411	162.5	0.172	100	8.55	33.95	26.388	164.7	0.202
										125	8.04	33.97	26.473	156.6	0.212	125	8.28	33.97	26.444	159.3	0.243
										150	7.86	33.99	26.523	151.9	0.251	150	7.97	34.05	26.554	149.0	0.282
										175	7.35	34.00	26.604	144.2	0.289	175	7.87	34.11	26.615	143.1	0.320
										200	7.06	34.02	26.661	138.8	0.325	200	7.77	34.13	26.646	140.2	0.356
										225	7.19	34.11	26.713	133.8	0.360	225	7.54	34.13	26.679	137.1	0.391
										250	6.91	34.11	26.752	130.2	0.394	250	7.41	34.15	26.713	133.8	0.426
										275	6.69	34.12	26.789	128.6	0.427	275	7.17	34.16	26.755	129.9	0.460
										300	6.70	34.18	26.835	122.2	0.459	300	6.91	34.17	26.799	125.7	0.493
										350	6.37	34.18	26.879	118.1	0.522	350	6.68	34.20	26.854	120.5	0.557
										400	6.26	34.23	26.933	113.0	0.582	400	6.31	34.22	26.918	114.4	0.619
										450	6.03	34.25	26.978	108.7	0.640	450	6.00	34.25	26.982	108.3	0.677
										500	5.83	34.26	27.011	105.6	0.697	500	5.62	34.26	27.037	103.1	0.733
										550	5.55	34.29	27.069	100.1	0.752	550	5.45	34.31	27.097	97.4	0.787
										600	5.32	34.33	27.129	94.4	0.804	600	5.28	34.33	27.133	94.0	0.838
										700	4.88	34.38	27.219	85.8	0.902	700	4.93	34.37	27.206	87.1	0.936
										800	4.45	34.41	27.291	79.0	0.992	800	4.60	34.40	27.267	81.3	1.028
										900	4.25	34.44	27.336	74.7	1.077	900	4.16	34.42	27.330	75.3	1.115
										950	4.03	34.45	27.367	71.8	1.118	1000	3.85	34.46	27.394	69.3	1.196

70070					RV DAVID STARR JORDAN					CALCOFI CRUISE 7505					70080							
LATITUDE	LONGITUDE	MO/DY/YR	START TIME		Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
35 33.0N	123 06.0W	05/10/75	1201 GMT		35 13.0N	123 48.0W	05/10/75	1640 GMT		0	12.08	33.35	25.315	266.7	0.000	0	13.16	33.41	25.151	282.3	0.000	
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		4116M	240	11KT	2	270 8 13	10	12.05	33.35	25.320	266.2	0.026	10	12.88	33.40	25.199	277.7	0.028	
3418M	280	6KT	1							20	11.87	33.36	25.362	262.2	0.053	20	12.76	33.39	25.215	276.2	0.055	
										30	11.86	33.37	25.371	261.3	0.079	30	12.55	33.38	25.248	273.1	0.083	
										40	11.40	33.37	25.456	253.2	0.105	40	12.25	33.37	25.298	268.3	0.110	
										50	11.02	33.38	25.533	246.0	0.130	50	12.02	33.36	25.334	264.9	0.137	
										75	10.17	33.45	25.735	226.8	0.189	75	11.48	33.40	25.465	252.4	0.202	
										100	9.31	33.65	26.033	198.4	0.243	100	10.57	33.49	25.697	230.3	0.263	
										125	8.78	33.82	26.250	177.8	0.290	125	9.49	33.65	26.004	201.2	0.317	
										150	8.38	33.91	26.383	165.2	0.334	150	8.96	33.78	26.191	183.4	0.366	
										175	8.08	33.97	26.474	156.5	0.375	175	8.67	33.93	26.353	168.0	0.411	
										200	7.80	34.01	26.547	149.6	0.414	200	8.32	33.95	26.423	161.4	0.453	
										225	7.53	34.03	26.602	144.4	0.451	225	8.00	33.99	26.502	153.9	0.493	
										250	7.51	34.09	26.652	139.6	0.488	250	7.54	33.97	26.554	149.0	0.532	
										275	7.23	34.10	26.700	135.1	0.523	275	7.28	33.98	26.598	144.7	0.570	
										300	7.01	34.12	26.746	130.7	0.558	300	7.00	34.01	26.661	138.8	0.606	
										350	6.74	34.16	26.814	124.2	0.624	350	6.48	34.04	26.754	129.9	0.676	
										400	6.43	34.19	26.879	118.1	0.687	400	5.93	34.07	26.849	121.0	0.741	
										450	6.16	34.22	26.938	112.5	0.748	450	5.79	34.14	26.921	114.1	0.802	
										500	5.78	34.23	26.994	107.2	0.806	500	5.57	34.18	26.980	108.5	0.861	
										550	5.42	34.25	27.053	101.6	0.861	550	5.30	34.22	27.044	102.5	0.917	
										600	5.29	34.29	27.100	97.1	0.915	600	5.02	34.25	27.100	97.1	0.970	
										700	4.84	34.35	27.200	87.6	1.014	700	4.48	34.29	27.193	88.4	1.070	
										800	4.42	34.38	27.271	81.0	1.106	800	4.28	34.36	27.270	81.0	1.162	
										900	4.20	34.43	27.334	75.0	1.193	900	3.93	34.40	27.338	74.6	1.248	
										1000	3.83	34.46	27.396	69.1	1.273	1000	3.64	34.44	27.399	68.8	1.327	

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

70090

LATITUDE 34 53.0N	LONGITUDE 124 30.0W	MO/DAY/YR 05/10/75	MESSENGER 2309	TIME GMT	BOTTOM 4498M	WIND 210	SPEED 14KT	WEATHER		DOMINANT WAVES					
								1	2	270	8	13	DD		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	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 34 53.0N	LONGITUDE 124 30.0W	MO/DAY/YR 05/10/75	START TIME 2200 GMT	BOTTOM 4498M	WIND 210	SPEED 14KT	WEATHER	DOMINANT WAVES		BOTTOM 741M	WIND 310	SPEED 30KT	WEATHER	DOMINANT WAVES			
								1	270					1	300	10	6
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DD						
0	13.41	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	0.571	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 35 18.0N	LONGITUDE 121 57.5W	MO/DAY/YR 05/11/75	START TIME 1935 GMT	BOTTOM 2410M	WIND 340	SPFFU 25KT	WEATHER	DOMINANT WAVES		BOTTOM 4493M	WIND 330	SPEED 24KT	WEATHER	DOMINANT WAVES			
								1	320					1	290	8	12
Z	T	S	SIGMA T	DT	DU	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	12.42	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										

73080						RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						73090					
LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	MO/DAY/YR	START TIME								
34 38.0N	123 22.0W	05/01/75	0834 GMT	320	320	23KT	7	8	3075M	310	15KT	2		05/11/75	0324 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD						
0	13.54	33.44	25.098	287.4	0.000	0	13.27	33.37	25.098	287.3	0.000												
10	13.45	33.44	25.116	285.6	0.028	10	12.62	33.37	25.227	275.1	0.028												
20	12.12	33.44	25.182	279.3	0.056	20	12.47	33.37	25.256	272.3	0.055												
30	13.08	33.44	25.190	278.6	0.084	30	12.13	33.37	25.321	266.2	0.082												
40	13.07	33.44	25.192	278.4	0.112	40	11.97	33.38	25.358	262.5	0.109												
50	13.07	33.44	25.192	278.4	0.140	50	11.86	33.40	25.395	259.1	0.135												
75	12.06	33.44	25.194	278.2	0.210	75	11.65	33.48	25.496	249.5	0.199												
100	13.04	33.44	25.198	277.8	0.280	100	11.09	33.52	25.629	236.9	0.260												
125	11.42	33.45	25.515	247.7	0.347	125	10.16	33.62	25.869	214.0	0.317												
150	10.55	33.50	25.709	229.3	0.407	150	8.97	33.76	26.174	185.0	0.368												
175	9.50	33.67	26.018	199.8	0.462	175	8.62	33.86	26.306	172.4	0.413												
200	8.73	33.87	26.297	173.3	0.509	200	8.30	33.92	26.403	163.3	0.456												
225	8.23	33.96	26.444	159.4	0.552	225	8.00	33.98	26.494	154.6	0.496												
250	7.87	33.99	26.521	152.0	0.592	250	7.57	33.97	26.549	149.4	0.535												
275	7.46	34.00	26.589	145.6	0.630	275	7.19	34.00	26.627	142.0	0.573												
300	7.29	34.03	26.636	141.2	0.667	300	6.83	34.01	26.684	136.6	0.609												
350	6.65	34.06	26.747	130.6	0.737	350	6.08	34.01	26.783	127.3	0.677												
400	6.44	34.13	26.830	122.7	0.803	400	5.63	34.05	26.870	118.9	0.741												
450	6.21	34.20	26.916	114.6	0.866	450	5.54	34.14	26.952	111.2	0.801												
500	5.95	34.25	26.988	107.8	0.924	500	5.11	34.15	27.011	105.6	0.858												
550	5.69	34.28	27.044	102.4	0.980	550	5.21	34.26	27.086	98.4	0.912												
600	5.42	34.29	27.085	98.6	1.034	600	5.00	34.29	27.134	93.9	0.964												
700	4.90	34.34	27.186	89.0	1.136	700	4.59	34.35	27.228	85.0	1.060												
800	4.60	34.40	27.267	81.3	1.229	800	4.28	34.40	27.301	78.0	1.149												
900	4.20	34.43	27.334	75.0	1.315	900	3.98	34.44	27.365	72.0	1.232												
1000	3.87	34.47	27.400	68.7	1.396	1000	3.72	34.46	27.407	68.0	1.310												

77051						RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						77055					
LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	MO/DAY/YR	START TIME								
35 01.0N	120 56.5W	05/12/75	0801 GMT	297M	330	21KT	0	290 10 8	593M	330	23KT	0	290 8 8	05/12/75	1020 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD						
0	11.09	33.59	25.683	231.7	0.000	0	11.46	33.59	25.616	238.1	0.000												
10	11.08	33.59	25.685	231.5	0.023	10	11.46	33.59	25.616	238.1	0.023												
20	11.06	33.59	25.688	231.2	0.046	20	11.18	33.59	25.667	233.2	0.047												
30	10.43	33.60	25.807	219.9	0.068	30	11.14	33.60	25.682	231.8	0.070												
40	10.11	33.62	25.878	213.2	0.090	40	10.44	33.62	25.821	218.6	0.093												
50	9.93	33.67	25.947	206.6	0.111	50	10.41	33.64	25.842	216.6	0.115												
75	9.28	33.89	26.225	180.1	0.160	75	9.73	33.74	26.035	198.3	0.167												
100	9.17	33.93	26.275	175.5	0.205	100	8.94	33.84	26.241	178.7	0.214												
125	8.93	34.01	26.375	165.9	0.248	125	8.45	33.93	26.387	164.7	0.258												
150	8.55	34.06	26.474	156.6	0.289	150	8.15	33.97	26.464	157.5	0.299												
175	8.35	34.12	26.551	149.2	0.328	175	7.87	33.98	26.514	152.8	0.338												
200	8.05	34.14	26.612	143.4	0.365	200	7.88	34.10	26.606	144.0	0.376												
225	7.82	34.15	26.654	139.4	0.402	225	7.79	34.13	26.643	140.5	0.413												
250	7.52	34.16	26.706	134.6	0.437	250	7.63	34.17	26.697	135.3	0.448												
263	7.38	34.17	26.733	131.9	0.455	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	5.14	34.27	27.030	103.8	0.760												
						550	5.58	34.30	27.073	99.7	0.814												

77060				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				77070				
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME									
34 45.0N	121 33.0W	05/12/75	1320 GMT	34 23.5N	122 16.0W	05/12/75	1920 GMT									
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	
851M	330	22KT	0	290 8 9	4110M	320	21KT	0	300 8 8	851M	330	22KT	0	300 8 8	4110M	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD	
0	12.34	33.58	25.433	255.4	0.000	0	12.50	33.37	25.250	272.9	0.000	0	12.40	33.58	25.256	272.3 0.027
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	33.37	25.267	271.3 0.054
20	12.40	33.58	25.431	255.6	0.051	30	12.10	33.37	25.326	265.6	0.081	30	12.12	33.58	25.485	250.5 0.076
30	12.12	33.58	25.485	250.5	0.076	40	11.64	33.37	25.412	257.4	0.107	40	11.25	33.59	25.654	234.4 0.100
40	11.25	33.59	25.654	234.4	0.100	50	11.12	33.40	25.530	246.2	0.132	50	10.65	33.62	25.784	222.0 0.123
50	10.65	33.62	25.784	222.0	0.123	75	10.28	33.48	25.740	226.3	0.192	75	9.75	33.77	26.055	196.3 0.176
75	9.75	33.77	26.055	196.3	0.176	100	9.41	33.70	26.056	196.2	0.245	100	9.01	33.85	26.238	179.0 0.223
100	9.01	33.85	26.238	179.0	0.223	125	9.00	33.83	26.223	180.3	0.293	125	8.60	33.91	26.349	168.4 0.267
125	8.60	33.91	26.349	168.4	0.267	150	8.32	33.93	26.407	162.9	0.336	150	8.38	33.96	26.422	161.5 0.309
150	8.38	33.96	26.422	161.5	0.309	175	7.94	33.98	26.503	153.8	0.377	175	8.14	33.99	26.481	155.8 0.350
200	7.90	34.01	26.533	151.0	0.389	200	7.76	34.01	26.553	149.0	0.415	200	7.42	34.01	26.602	144.4 0.426
225	7.42	34.01	26.602	144.4	0.426	225	7.49	34.03	26.608	143.8	0.453	225	7.18	34.01	26.636	141.2 0.463
250	7.18	34.01	26.636	141.2	0.463	250	7.23	34.02	26.637	141.1	0.489	250	6.79	34.02	26.697	135.3 0.499
275	6.79	34.02	26.697	135.3	0.499	275	6.90	34.03	26.690	136.0	0.525	275	6.56	34.02	26.742	130.9 0.533
300	6.56	34.04	26.742	130.9	0.533	300	6.72	34.07	26.746	130.7	0.559	300	6.10	34.07	26.827	123.0 0.599
350	6.10	34.07	26.827	123.0	0.599	350	6.58	34.15	26.828	123.0	0.625	350	5.69	34.10	26.902	115.9 0.661
400	5.69	34.10	26.902	115.9	0.661	400	6.11	34.18	26.913	114.9	0.687	400	5.65	34.18	26.970	109.4 0.720
450	5.65	34.18	26.970	109.4	0.720	450	5.61	34.18	26.975	109.0	0.746	450	5.53	34.23	27.024	104.4 0.776
500	5.53	34.23	27.024	104.3	0.776	500	5.73	34.26	27.023	104.4	0.802	500	5.38	34.27	27.074	99.6 0.831
550	5.38	34.27	27.074	99.6	0.831	550	5.15	34.25	27.085	98.5	0.856	550	5.14	34.30	27.126	94.7 0.882
600	5.14	34.30	27.126	94.7	0.882	600	4.97	34.29	27.138	93.6	0.908	600	4.83	34.37	27.217	86.0 0.980
700	4.83	34.37	27.217	86.0	0.980	700	4.68	34.36	27.226	85.2	1.004	700	4.50	34.41	27.286	79.5 1.071
800	4.50	34.41	27.286	79.5	1.071	800	4.31	34.40	27.298	78.4	1.093	800	4.07	34.44	27.357	72.7 1.177
900						900	4.05	34.44	27.357	72.7	1.177	900				
1000						1000	3.75	34.48	27.420	66.8	1.255	1000				

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				77070							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	BOTTOM	WIND	SPEED	WEATHER	BOTTOM	WIND	SPEED	WEATHER
34 23.5N	122 16.0W	5/12/75	2023	4110M	320	21KT	GMT	34 23.5N	122 16.0W	5/12/75	2023	4110M	320	21KT	GMT
Z	T	S	O2	P04	S103	N02	N13	DT	Z	T	S	O2	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				CALCOFI CRUISE 7505				77090				
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	WIND	SPEED	WEATHER	BOTTOM	WIND	SPEED	WEATHER	
34 04.0N	122 57.0W	05/13/75	0040 GMT	33 43.0N	123 39.0W	05/13/75	0525 GMT	4308M	330	20KT	WEATHER	3308M	310	21KT	WEATHER	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD	
0	12.95	33.53	25.285	269.5	0.000	0	13.31	33.17	24.936	302.8	0.000	0	12.81	33.53	25.313	266.9 0.026
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	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	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	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
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	9.36	33.68	26.049	196.9	0.237	100	10.44	33.38	25.703	229.						

80052				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				80055			
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								
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	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	33.41	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				

80060				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				80070			
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								
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	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				80070								
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENDER TIME	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES								
33 48.5N	121 51.0W	5/13/75	2133	3832M	250	8KT	2	330 9 6								
Z	T	S	D2	P04	S103	N02	N03	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
71	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			CALCOFI CRUISE 7505			80090		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 29.0N	122 32.0W	05/13/75	1549 GMT			33 07.0N	123 14.0W	05/13/75	1045 GMT		
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES			BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		
3926M	330 8KT	2	330 4 5			4308M	350 15KT	0	289.8 0.121		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.32	33.25	24.996	297.1	0.000	0	13.57	33.20	24.907	305.6	0.000
10	13.32	33.25	24.996	297.1	0.029	10	13.57	33.20	24.907	305.6	0.030
20	13.31	33.25	24.998	296.9	0.059	20	13.57	33.20	24.907	305.6	0.061
30	13.28	33.25	25.004	296.3	0.089	30	13.40	33.20	24.941	302.3	0.091
40	12.75	33.24	25.101	287.1	0.118	40	12.78	33.21	25.072	289.8	0.121
50	12.46	33.33	25.227	275.1	0.146	50	12.57	33.22	25.120	285.2	0.150
75	11.91	33.34	25.339	264.4	0.214	75	11.59	33.29	25.359	262.5	0.219
100	10.77	33.38	25.517	241.8	0.278	100	11.02	33.40	25.548	244.5	0.282
125	9.88	33.48	25.807	219.9	0.336	125	9.40	33.50	25.902	210.9	0.340
150	8.93	33.69	26.125	189.6	0.388	150	9.02	33.75	26.158	186.5	0.390
175	8.63	33.86	26.305	172.6	0.434	175	8.65	33.88	26.317	171.4	0.436
200	8.24	33.96	26.443	159.5	0.476	200	8.41	33.95	26.409	162.7	0.478
225	7.75	33.99	26.539	150.4	0.516	225	8.00	33.98	26.494	154.6	0.519
250	7.49	34.00	26.584	146.1	0.554	250	7.47	33.99	26.579	146.5	0.558
275	7.27	34.02	26.631	141.6	0.591	275	6.86	33.97	26.649	140.0	0.594
300	6.98	34.02	26.671	137.8	0.627	300	6.51	34.00	26.719	133.3	0.630
350	6.63	34.06	26.750	130.3	0.697	350	6.09	34.07	26.829	122.9	0.696
400	6.03	34.09	26.852	120.7	0.762	400	5.63	34.10	26.910	115.2	0.758
450	5.71	34.14	26.931	113.2	0.823	450	5.54	34.17	26.976	108.9	0.817
500	5.40	34.18	27.001	106.6	0.881	500	5.32	34.19	27.018	104.9	0.873
550	5.16	34.23	27.068	100.1	0.936	550	5.04	34.23	27.082	98.8	0.927
600	4.93	34.28	27.134	93.9	0.987	600	4.99	34.30	27.144	93.0	0.978
700	4.68	34.36	27.226	85.2	1.084	700	4.57	34.36	27.238	84.0	1.074
800	4.41	34.41	27.295	78.6	1.174	800	4.20	34.40	27.310	77.2	1.162
900	4.15	34.44	27.347	73.7	1.258	900	3.95	34.43	27.360	72.5	1.244
1000	3.82	34.47	27.405	68.2	1.338	1000	3.70	34.46	27.409	67.8	1.323

81043			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			81044		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 24.0N	119 48.0W	05/15/75	2249 GMT			34 23.0N	119 50.0W	05/15/75	2121 GMT		
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES			BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		
37M	230 1KT	2	240 3 3			62M	250 7KT	2	250 3 5		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.35	33.88	25.476	251.4	0.000	0	13.11	33.86	25.508	248.3	0.000
10	12.85	33.86	25.560	243.4	0.024	10	12.76	33.86	25.578	241.7	0.024
20	11.73	33.84	25.660	224.4	0.048	20	11.33	33.86	25.849	215.9	0.047
30	10.92	33.88	25.939	207.4	0.069	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			CALCOFI CRUISE 7505			81045		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 22.0N	119 52.0W	05/15/75	1952 GMT			34 21.0N	119 54.0W	05/15/75	1805 GMT		
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES			BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		
75M	220 5KT	1	270 3 4			353M	220 3KT	2	250 3 4		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	12.76	33.86	25.578	241.7	0.000	0	12.65	33.82	25.568	242.6	0.000
10	11.68	33.82	25.753	225.0	0.023	10	11.15	33.84	25.866	214.3	0.022
20	11.09	33.83	25.869	214.0	0.045	20	10.77	33.86	25.950	206.3	0.043
30	10.54	33.85	25.982	203.2	0.066	30	10.40	33.90	26.046	197.2	0.064
40	10.04	33.86	26.076	194.3	0.086	40	9.68	33.92	26.183	184.1	0.083
50	9.76	33.89	26.147	187.6	0.105	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			CALCOFI CRUISE 7505			81047		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 19.0N	119 58.0W	05/15/75	1605 GMT			34 17.0N	120 02.5W	05/14/75	1426 GMT		
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES			BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		
501M	250 4KT	2	250 3 4			593M	290 9KT	2	250 3 4		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	11.14	33.91	25.922	208.9	0.000	0	11.55	33.97	25.894	211.6	0.000
10	10.75	33.93	26.007	200.8	0.020	10	10.72	33.96	26.036	198.1	0.020
20	10.36	33.96	26.099	192.1	0.040	20	10.08	33.96	26.147	187.6	0.039
30	9.95	34.00	26.200	182.5	0.058	30	9.49	34.02	26.293	173.8	0.057
40	9.92	34.00	26.205	182.0	0.077	40	9.06	34.05	26.386	164.9	0.074
50	9.84	34.01	26.227	180.0	0.095	50	8.88	34.09	26.445	159.2	0.091
75	9.31	33.99	26.289	174.1	0.140	75	8.69	34.13	26.507	153.4	0.130
100	8.72	34.07	26.455	158.3	0.182	100	8.31	34.11	26.550	149.4	0.168
125	8.51	34.08	26.495	154.5	0.221	125	8.22	34.14	26.587	145.8	0.206
150	8.42	34.12	26.541	150.2	0.260	150	8.19	34.16	26.607	143.9	0.243
175	8.25	34.15	26.590	145.5	0.298	175	8.04	34.17	26.637	141.0	0.279
200	8.04	34.16	26.622	142.5	0.334	200	7.79	34.17	26.674	137.5	0.315

5

RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						83039	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
34 17.0N	120 02.5W	05/15/75	1304 (GMT)	34 14.5N	119 19.5W	05/16/75	0155 (GMT)						
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES						
Z	T	S	SIGMA T	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	11.22	33.98	25.962	205.1	0.000	0	13.74	33.79	25.327	265.6	0.000	0	
10	11.02	33.97	25.990	202.4	0.020	5	13.61	33.78	25.345	263.8	0.013	5	
20	10.52	33.96	26.071	194.8	0.040	10	13.12	33.77	25.437	255.1	0.026	10	
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								

6

RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						83041	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
34 12.5N	119 24.0W	05/16/75	0310 (GMT)	34 11.5N	119 26.0W	05/16/75	0412 (GMT)						
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES						
Z	T	S	SIGMA T	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	13.28	33.79	25.420	256.7	0.000	0	13.27	33.81	25.438	255.0	0.000	0	
10	11.95	33.78	25.672	232.7	0.024	10	11.96	33.80	25.685	231.4	0.024	10	
20	10.99	33.79	25.856	215.2	0.046	20	11.38	33.79	25.785	221.9	0.047	20	
30	10.90	33.82	25.895	211.5	0.068	30	10.32	33.84	26.013	200.3	0.068	30	
						40	10.08	33.87	26.077	194.2	0.088	40	
						50	9.77	33.89	26.145	187.8	0.107	50	
						66	9.64	33.94	26.206	182.0	0.137	66	

83042

RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						83043	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
34 09.5N	119 30.0W	05/16/75	0558 (GMT)	34 08.0N	119 34.0W	05/16/75	0855 (GMT)						
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES						
Z	T	S	SIGMA T	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	13.05	33.79	25.466	252.3	0.000	0	12.68	33.78	25.532	246.1	0.000	0	
10	12.07	33.78	25.649	234.9	0.024	10	12.65	33.79	25.545	244.8	0.024	10	
20	11.28	33.78	25.796	220.9	0.047	20	11.33	33.79	25.795	221.1	0.047	20	
30	10.72	33.84	25.943	207.0	0.068	30	10.92	33.82	25.892	211.8	0.069	30	
40	9.85	33.88	26.124	189.8	0.088	40	10.48	33.85	25.993	202.2	0.090	40	
50	9.66	33.93	26.194	183.1	0.107	50	9.90	33.87	26.108	191.3	0.110	50	
75	9.10	34.02	26.356	167.7	0.151	75	9.40	33.95	26.253	177.5	0.156	75	
100	8.93	34.05	26.406	162.9	0.193	100	8.98	34.04	26.391	164.4	0.199	100	
125	8.74	34.15	26.514	152.7	0.233	125	8.83	34.08	26.446	159.2	0.240	125	
150	8.50	34.17	26.568	147.7	0.271	150	8.72	34.12	26.494	154.6	0.280	150	
175	8.21	34.18	26.619	142.7	0.308	175	8.49	34.16	26.561	148.2	0.319	175	
200	8.12	34.22	26.664	138.5	0.344	200	8.36	34.20	26.612	143.4	0.356	200	

83044

RV DAVID STARR JORDAN						CALCOFI CRUISE 7505						83044	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
34 05.5N	119 38.0W	05/16/75	0955 (GMT)	34 04.0N	119 41.0W	05/16/75	1131 (GMT)						
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES						
Z	T	S	SIGMA T	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	12.25	33.87	25.684	231.5	0.000	0	11.84	33.85	25.747	225.6	0.000	0	
10	11.95	33.86	25.734	226.8	0.022	10	11.80	33.85	25.754	224.9	0.022	10	
20	11.45	33.86	25.827	218.0	0.045	20	11.80	33.85	25.754	224.9	0.045	20	
30	11.06	33.87	25.906	210.5	0.066	30	11.78	33.85	25.758	224.5	0.067	30	
40	10.93	33.89	25.945	206.8	0.087	40	11.73	33.85	25.767	223.6	0.090	40	
50	10.78	33.90	25.979	203.6	0.108	50	11.30	33.86	25.854	215.4	0.112	50	
75	10.22	33.92	26.092	192.8	0.158	75	10.62	33.92	26.023	199.4	0.164	75	
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								

P3045			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3051		
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				
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES		BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
86M	270	13KT				149M	290	31KT	1	340	4 5
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
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

P3055			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3060		
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				
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES		BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
1128M	330	28KT	1	330 6 6		138/M	340	20KT	1	340 9 7	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
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	214.1	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	9.90	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	151.0	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

P3070			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			R3080		
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				
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES		BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
3926M	320	22KT	1	340 9 1		4212M	340	26KT	1	350 9 8	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
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	25.13	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	0.399
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	6.88	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	0.148	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			CALCOFI CRUISE 7505			H5037 ²			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	LONGITUDE	MO/DAY/YR	START TIME				
32 34.5N	122 50.0W	05/17/75	1600 GMT	34 02.5N	118 58.5W	05/19/75	0856 GMT				
BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES				
430HM	320 25KT	2	110 4 5	28M	310 5KT	2	280 1				
Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD		
0 13.60 33.45	25.093 287.8	0.000	0 13.86 33.77	25.286 269.4	0.000	0 13.86 33.77	25.286 269.4	0.000	0 13.86 33.77	25.286 269.4	0.000
10 13.60 33.45	25.093 287.8	0.028	5 13.37 33.75	25.371 261.3	0.013	5 13.37 33.75	25.371 261.3	0.013	5 13.37 33.75	25.371 261.3	0.013
20 13.60 33.45	25.093 287.8	0.057	10 12.95 33.75	25.455 253.3	0.026	10 12.95 33.75	25.455 253.3	0.026	10 12.95 33.75	25.455 253.3	0.026
30 12.60 33.45	25.093 287.8	0.086	15 12.51 33.77	25.557 243.7	0.038	15 12.51 33.77	25.557 243.7	0.038	15 12.51 33.77	25.557 243.7	0.038
40 13.60 33.45	25.093 287.8	0.115	20 12.09 33.81	25.669 233.1	0.050	20 12.09 33.81	25.669 233.1	0.050	20 12.09 33.81	25.669 233.1	0.050
50 13.05 33.45	25.204 277.3	0.143	25 11.76 33.82	25.739 226.4	0.062	25 11.76 33.82	25.739 226.4	0.062	25 11.76 33.82	25.739 226.4	0.062
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									

5
85037

		RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			85038			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	LONGITUDE	MO/DAY/YR	START TIME				
34 02.0N	118 54.5W	05/19/75	0740 GMT	34 01.0N	119 02.5W	05/19/75	0606 GMT				
BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES				
71M	040 4KT	0		223M	270 4KT	0					
Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD		
0 13.89 33.77	25.280 270.0	0.000	0 13.86 33.74	25.263 271.6	0.000	0 13.86 33.74	25.263 271.6	0.000	0 13.86 33.74	25.263 271.6	0.000
10 13.30 33.73	25.370 261.5	0.026	10 12.87 33.74	25.463 252.6	0.026	10 12.87 33.74	25.463 252.6	0.026	10 12.87 33.74	25.463 252.6	0.026
20 12.08 33.71	25.593 240.2	0.051	20 11.46 33.72	25.717 228.5	0.050	20 11.46 33.72	25.717 228.5	0.050	20 11.46 33.72	25.717 228.5	0.050
30 11.12 33.78	25.825 218.2	0.074	30 10.84 33.71	25.821 218.6	0.072	30 10.84 33.71	25.821 218.6	0.072	30 10.84 33.71	25.821 218.6	0.072
40 10.59 33.84	25.966 204.8	0.095	40 10.46 33.79	25.949 206.3	0.094	40 10.46 33.79	25.949 206.3	0.094	40 10.46 33.79	25.949 206.3	0.094
50 10.36 33.86	26.021 199.5	0.116	50 10.13 33.84	26.045 197.2	0.114	50 10.13 33.84	26.045 197.2	0.114	50 10.13 33.84	26.045 197.2	0.114
60 10.00 33.90	26.114 190.7	0.135	75 9.62 33.94	26.209 181.7	0.162	75 9.62 33.94	26.209 181.7	0.162	75 9.62 33.94	26.209 181.7	0.162
100 9.12 34.06			100 9.12 34.06	26.384 165.1	0.205	100 9.12 34.06	26.384 165.1	0.205	100 9.12 34.06	26.384 165.1	0.205
125 8.92 34.10			125 8.92 34.10	26.447 159.1	0.246	125 8.92 34.10	26.447 159.1	0.246	125 8.92 34.10	26.447 159.1	0.246
150 8.82 34.13			150 8.82 34.13	26.486 155.4	0.286	150 8.82 34.13	26.486 155.4	0.286	150 8.82 34.13	26.486 155.4	0.286
175 8.69 34.14			175 8.69 34.14	26.515 152.7	0.326	175 8.69 34.14	26.515 152.7	0.326	175 8.69 34.14	26.515 152.7	0.326
200 8.57 34.18			200 8.57 34.18	26.564 147.9	0.364	200 8.57 34.18	26.564 147.9	0.364	200 8.57 34.18	26.564 147.9	0.364

85039

		RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			85040			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	LONGITUDE	MO/DAY/YR	START TIME				
33 59.0N	119 06.0W	05/19/75	0423 GMT	33 57.0N	119 10.5W	05/19/75	0242 GMT				
BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES				
654M	270 5KT	0		759M	230 6KT	1	360 1 7				
Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD		
0 14.57 33.74	25.114 285.8	0.000	0 14.68 33.70	25.060 291.0	0.000	0 14.68 33.70	25.060 291.0	0.000	0 14.68 33.70	25.060 291.0	0.000
10 13.64 33.73	25.301 268.0	0.027	10 14.21 33.68	25.144 282.9	0.028	10 14.21 33.68	25.144 282.9	0.028	10 14.21 33.68	25.144 282.9	0.028
20 12.32 33.72	25.555 243.8	0.053	20 13.80 33.68	25.229 274.8	0.056	20 13.80 33.68	25.229 274.8	0.056	20 13.80 33.68	25.229 274.8	0.056
30 11.37 33.74	25.748 225.4	0.076	30 12.79 33.71	25.456 253.3	0.083	30 12.79 33.71	25.456 253.3	0.083	30 12.79 33.71	25.456 253.3	0.083
40 10.85 33.76	25.858 215.1	0.098	40 11.72 33.73	25.676 232.3	0.107	40 11.72 33.73	25.676 232.3	0.107	40 11.72 33.73	25.676 232.3	0.107
50 10.48 33.79	25.946 206.7	0.120	50 10.48 33.75	25.915 209.6	0.129	50 10.48 33.75	25.915 209.6	0.129	50 10.48 33.75	25.915 209.6	0.129
75 9.69 33.88	26.151 187.3	0.169	75 9.34 33.90	26.223 180.3	0.178	75 9.34 33.90	26.223 180.3	0.178	75 9.34 33.90	26.223 180.3	0.178
100 9.44 33.95	26.246 178.1	0.215	100 9.03 34.02	26.367 166.7	0.222	100 9.03 34.02	26.367 166.7	0.222	100 9.03 34.02	26.367 166.7	0.222
125 8.86 34.00	26.378 165.6	0.259	125 8.94 34.07	26.420 161.6	0.264	125 8.94 34.07	26.420 161.6	0.264	125 8.94 34.07	26.420 161.6	0.264
150 8.72 34.12	26.494 154.6	0.300	150 8.73 34.13	26.500 154.0	0.304	150 8.73 34.13	26.500 154.0	0.304	150 8.73 34.13	26.500 154.0	0.304
175 8.73 34.17	26.532 151.1	0.339	175 8.55 34.19	26.575 146.9	0.342	175 8.55 34.19	26.575 146.9	0.342	175 8.55 34.19	26.575 146.9	0.342
200 8.57 34.19	26.512 147.2	0.377	200 8.52 34.24	26.619 142.8	0.379	200 8.52 34.24	26.619 142.8	0.379	200 8.52 34.24	26.619 142.8	0.379

5
87032

		RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			87032			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	LONGITUDE	MO/DAY/YR	START TIME				
33 53.5N	118 26.5W	05/19/75	1842 GMT	33 54.5N	118 28.0W	05/19/75	1725 GMT				
BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND SPEED	WEATHER	DIMINANT WAVES				
19M	270 6KT	2	280 1 9	30M	290 5KT	2	280 1 9				
Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD	Z T S SIGMA T	DT DD		
0 15.88 33.76	24.842 311.7	0.000	0 15.60 33.76	24.905 305.7	0.000	0 15.60 33.76	24.905 305.7	0.000	0 15.60 33.76	24.905 305.7	0.000
5 15.34 33.76	24.962 300.2	0.015	5 15.05 33.76	25.026 294.2	0.015	5 15.05 33.76	25.026 294.2	0.015	5 15.05 33.76	25.026 294.2	0.015
10 14.48 33.75	25.141 283.2	0.029	10 13.43 33.75	25.359 262.5	0.028	10 13.43 33.75	25.359 262.5	0.028	10 13.43 33.75	25.359 262.5	0.028
15 11.94 33.80	25.689 231.1	0.042	15 13.18 33.74	25.402 258.4	0.041	15 13.18 33.74	25.402 258.4	0.041	15 13.18 33.74	25.402 258.4	0.041
20 11.89 33.73			20 12.27 33.74	25.580 241.5	0.054	20 12.27 33.74	25.580 241.5	0.054	20 12.27 33.74	25.580 241.5	0.054
25 11.89 33.73			25 11.89 33.73	25.644 235.3	0.064	25 11.89 33.73	25.644 235.3	0.064	25 11.89 33.73	25.644 235.3	0.064

B7033				RV DAV ID STARR JORDAN				CALCULI CRUISE 7505				B7034							
LATITUDE		LONGITUDE		MO/D/Y/YR		START TIME		LATITUDE		LONGITUDE		MO/D/Y/YR		START TIME					
33 54.0N		118 29.0W		05/19/75		1605 GMT		33 52.0N		118 33.5W		05/19/75		1443 GMT					
BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
4HM		240		7KT		2		260 1 H		73M		270		5KT		2		49	
Z	T	S	SIGMA	T	DT	DD			Z	T	S	SIGMA	T	DT	DD				
0	14.60	33.77	25.131	284.2	0.000				0	14.55	33.75	25.126	284.7	0.000					
10	13.17	33.76	25.419	256.8	0.027				10	14.46	33.75	25.145	282.8	0.028					
20	12.61	33.76	25.530	246.2	0.052				20	14.39	33.76	25.168	280.7	0.056					
30	11.53	33.77	25.743	226.0	0.075				30	12.43	33.68	25.503	248.8	0.083					
40	11.30	33.79	25.800	220.5	0.098				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				CALCOFI CRUISE 7505				87036			
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
33 50.5N		118 37.5W		05/19/75		1305 GMT		33 49.0N		118 40.0W		05/19/75		1140 GMT	
BOTTUM 380M	WIND 260	SPEED 7KT	WEATHER 2	DOMINANT 270	WAVES 2 6			BOTTUM 90' M	WIND 240	SPEED 5KT	WEATHER 90' M	Dominant Waves 2 6			
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD		
0	15.49	33.73	24.906	305.6	0.000			0	14.75	33.73	25.068	290.2	0.000		
10	15.48	33.73	24.408	305.4	0.030			10	14.55	33.75	25.126	284.7	0.028		
20	14.45	33.71	25.116	285.6	0.060			20	12.77	33.75	25.491	249.9	0.055		
30	11.89	33.70	25.621	237.6	0.086			30	12.02	33.74	25.628	236.9	0.079		
40	11.43	33.74	25.738	226.5	0.109			40	10.96	33.73	25.815	219.1	0.102		
50	10.63	33.75	25.889	212.1	0.131			50	10.51	33.69	25.863	214.6	0.124		
75	9.83	33.88	26.121	189.5	0.182			75	9.52	33.81	26.124	189.8	0.175		
100	9.06	33.99	26.339	169.4	0.227			100	9.28	33.91	26.241	178.6	0.221		
125	8.88	34.05	26.414	162.2	0.269			125	9.11	34.00	26.339	169.4	0.266		
150	8.74	34.09	26.468	157.1	0.310			150	8.90	34.08	26.434	160.3	0.307		
175	8.61	34.12	26.511	153.0	0.349			175	8.68	34.11	26.493	154.8	0.348		
200	8.46	34.17	26.573	147.1	0.388			200	8.20	34.10	26.558	148.5	0.386		

B7040				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				B7045				
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		
33 40.0N		118 58.0W		05/18/75		2315 GMT		33 30.0N		119 19.0W		05/18/75		2020 GMT		
BOTTOM 925M	WIND 250	SPEED 9KT	WEATHER 2	Dominant Waves 210 2 9	Bottom 1664M	Wind 250	Speed 6KT	Weather 2	Dominant Waves 230 3 8	Z	T	S	Sigma T	DT	DD	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	DT	DD	
0	15.43	33.66	24.866	309.4	0.000	0	13.50	33.71	25.314	266.8	0.000	0	13.50	33.71	25.314	266.8
10	14.45	33.65	25.070	290.0	0.029	10	12.87	33.72	25.448	254.0	0.026	10	12.87	33.72	25.448	254.0
20	12.68	33.64	25.423	256.4	0.057	20	10.70	33.75	25.877	213.3	0.049	20	10.70	33.75	25.877	213.3
30	11.75	33.64	25.601	239.5	0.082	30	9.85	33.83	26.085	193.5	0.069	30	9.85	33.83	26.085	193.5
40	10.97	33.65	25.751	225.2	0.105	40	9.44	33.94	26.239	178.9	0.088	40	9.44	33.94	26.239	178.9
50	10.48	33.70	25.876	213.3	0.127	50	9.24	33.97	26.294	173.6	0.106	50	9.24	33.97	26.294	173.6
75	9.71	33.81	26.093	192.7	0.178	75	8.93	34.01	26.375	165.9	0.149	75	8.93	34.01	26.375	165.9
100	9.30	33.91	26.238	179.0	0.225	100	8.70	34.04	26.435	160.2	0.190	100	8.70	34.04	26.435	160.2
125	9.00	33.99	26.348	168.5	0.269	125	8.58	34.11	26.508	153.3	0.229	125	8.58	34.11	26.508	153.3
150	8.52	34.03	26.455	158.3	0.311	150	8.64	34.20	26.569	147.5	0.268	150	8.64	34.20	26.569	147.5
175	8.32	34.10	26.540	150.2	0.350	175	8.41	34.21	26.613	143.4	0.305	175	8.41	34.21	26.613	143.4
200	8.31	34.17	26.597	144.9	0.388	200	8.12	34.21	26.656	139.2	0.341	200	8.12	34.21	26.656	139.2
225	7.99	34.21	26.676	137.4	0.424	225	7.98	34.21	26.677	137.2	0.376	225	7.98	34.21	26.677	137.2
250	7.81	34.22	26.710	134.1	0.459	250	7.62	34.21	26.730	132.2	0.411	250	7.62	34.21	26.730	132.2
275	7.55	34.22	26.748	130.5	0.493	275	7.47	34.23	26.768	128.7	0.445	275	7.47	34.23	26.768	128.7
300	7.30	34.23	26.792	126.4	0.526	300	7.40	34.23	26.778	127.7	0.478	300	7.40	34.23	26.778	127.7
350	7.02	34.26	26.855	120.4	0.591	350	6.84	34.23	26.855	120.3	0.543	350	6.84	34.23	26.855	120.3
400	6.72	34.27	26.903	115.8	0.652	400	6.49	34.26	26.926	113.6	0.604	400	6.49	34.26	26.926	113.6
450	6.30	34.28	26.967	109.8	0.712	450	6.17	34.29	26.992	107.4	0.662	450	6.17	34.29	26.992	107.4
500	6.04	34.31	27.018	104.9	0.769	500	5.88	34.31	27.044	102.4	0.718	500	5.88	34.31	27.044	102.4
550	5.66	34.32	27.079	99.1	0.823	550	5.69	34.34	27.092	97.9	0.771	550	5.69	34.34	27.092	97.9
600	5.50	34.36	27.131	94.2	0.875	600	5.48	34.36	27.133	94.0	0.823	600	5.48	34.36	27.133	94.0
700	5.21	34.38	27.181	89.4	0.975	700	5.01	34.40	27.220	85.7	0.921	700	5.01	34.40	27.220	85.7
800	5.12	34.39	27.200	87.7	1.072	800	4.64	34.43	27.286	79.5	1.011	800	4.64	34.44	27.317	76.6
						900	4.43	34.44	27.317	76.6	1.098	900	4.43	34.44	27.317	76.6
						1000	4.27	34.46	27.350	73.4	1.182	1000	4.27	34.46	27.350	73.4

87050				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				87060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME								
33 20.0N	119 39.5W	05/18/75	1750 GMT	33 00.0N	120 21.5W	05/18/75	1157 GMT								
BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES										
75M	280	3KT	2	130	3 8	854M	250	10KT	WEATHER	DOMINANT	WAVES				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	12.45	33.82	25.607	238.9	0.000	0	12.50	33.68	25.489	250.1	0.000				
10	11.35	33.83	25.822	218.5	0.022	10	12.38	33.68	25.512	247.9	0.024				
20	10.45	33.86	26.006	201.0	0.043	20	12.32	33.69	25.532	246.1	0.049				
30	9.82	33.89	26.137	188.6	0.063	30	12.25	33.69	25.545	244.8	0.074				
40	9.38	33.93	26.240	178.7	0.081	40	12.15	33.69	25.564	243.0	0.098				
50	9.14	34.01	26.342	169.1	0.099	50	11.90	33.70	25.619	237.7	0.122				
64	9.05	34.04	26.379	165.5	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	6.12	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	5.32	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				CALCOFI CRUISE 7505				87080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME								
32 39.5N	121 03.0W	05/18/75	0708 GMT	32 19.5N	121 43.0W	05/18/75	0145 GMT								
BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES				
3926M	010	3KT		4116M	340	16KT	2		330	8	8				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	12.42	33.43	25.312	267.0	0.000	0	13.27	33.34	25.075	289.5	0.000				
10	12.40	33.43	25.316	266.7	0.026	10	13.27	33.34	25.075	289.5	0.028				
20	12.38	33.43	25.319	266.3	0.053	20	13.26	33.34	25.077	289.3	0.057				
30	12.38	33.44	25.327	265.5	0.080	30	13.25	33.34	25.079	289.1	0.086				
40	12.34	33.44	25.335	264.8	0.106	40	13.00	33.35	25.137	283.7	0.115				
50	12.04	33.45	25.400	258.6	0.132	50	12.48	33.46	25.323	265.9	0.143				
75	10.90	33.45	25.608	238.8	0.195	75	12.01	33.52	25.459	253.0	0.208				
100	9.71	33.56	25.898	211.3	0.252	100	10.70	33.59	25.752	225.1	0.268				
125	9.17	33.71	26.103	191.8	0.303	125	9.78	33.70	25.995	202.0	0.322				
150	8.80	33.83	26.255	177.3	0.349	150	9.40	33.79	26.128	189.4	0.372				
175	8.47	33.90	26.361	167.3	0.393	175	8.90	33.93	26.317	171.4	0.418				
200	7.92	33.94	26.475	156.4	0.435	200	8.62	34.03	26.439	159.8	0.460				
225	7.42	33.97	26.571	147.4	0.473	225	8.37	34.08	26.517	152.5	0.500				
250	7.09	33.98	26.625	142.2	0.511	250	8.08	34.09	26.568	147.6	0.539				
275	6.84	33.98	26.659	139.0	0.547	275	7.77	34.11	26.630	141.7	0.576				
300	6.69	34.02	26.711	134.1	0.582	300	7.42	34.12	26.688	136.2	0.612				
350	6.46	34.10	26.804	125.2	0.649	350	7.08	34.16	26.768	126.7	0.681				
400	5.96	34.11	26.876	118.3	0.712	400	6.63	34.19	26.852	120.6	0.746				
450	5.76	34.14	26.925	113.7	0.773	450	6.24	34.21	26.920	114.3	0.808				
500	5.78	34.23	26.994	107.2	0.832	500	5.95	34.24	26.980	108.5	0.866				
550	5.48	34.26	27.054	101.5	0.887	550	5.1	34.28	27.042	102.7	0.923				
600	5.28	34.31	27.117	95.5	0.940	600	5.52	34.31	27.089	98.2	0.976				
700	4.88	34.34	27.188	88.8	1.039	700	5.04	34.37	27.193	88.3	1.077				
800	4.55	34.40	27.272	80.8	1.132	800	4.69	34.40	27.257	82.3	1.171				
900	4.25	34.44	27.336	74.7	1.218	900	4.31	34.44	27.330	75.3	1.258				
1000	3.98	34.47	27.389	69.8	1.299	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	0246 GMT	4116M	340	16KT	2	330	8	8						
Z	T	S	O2	P04	S103	N02	N03	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

5 4
88030

87090		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505					
LATITUDE	LONGITUDE	MO/DAY/YR		START TIME		LATITUDE	LONGITUDE	MO/DAY/YR		START TIME	
31 59.0N	122 25.0W	05/17/75		2035 GMT		33 41.5N	118 08.0W	05/20/75		0240 GMT	
BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES		BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES	
4116M	340 20KT	2	340	8 5		19M	270	2	230	2 2	
Z T S SIGMA T DT DD	Z T S SIGMA T DT DD										
0 13.48 33.48 25.141 283.3 0.000	0 14.92 33.71 25.016 295.1 0.000										
10 13.47 33.48 25.143 283.1 0.028	5 14.75 33.71 25.052 291.7 0.014										
20 13.46 33.48 25.145 282.9 0.056	10 14.00 33.66 25.172 280.2 0.028										
30 13.43 33.48 25.151 282.3 0.085	15 13.53 33.63 25.246 273.2 0.042										
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
88031

88031		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				88032	
LATITUDE	LONGITUDE	MO/DAY/YR		START TIME		LATITUDE	LONGITUDE	MO/DAY/YR		START TIME	
33 40.5N	118 09.5W	05/20/75		0030 GMT		33 38.5N	118 13.5W	05/20/75		0030 GMT	
BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES		BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES	
24M	260 11KT	2	240	2 2		37M	280 8KT	2	290	2 2	
Z T S SIGMA T DT DD	Z T S SIGMA T DT DD										
0 15.19 33.70 24.949 301.5 0.000	0 15.37 33.69 24.902 306.0 0.000										
5 15.12 33.70 24.964 300.0 0.015	10 15.12 33.66 24.934 303.0 0.030										
10 14.23 33.69 25.148 282.6 0.029	20 12.85 33.62 25.375 261.0 0.058										
15 13.29 33.67 25.326 265.7 0.043	30 11.51 33.63 25.638 236.0 0.083										
19 12.46 33.64 25.466 252.3 0.053											

5
88033

88033		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				88034	
LATITUDE	LONGITUDE	MO/DAY/YR		START TIME		LATITUDE	LONGITUDE	MO/DAY/YR		START TIME	
33 36.5N	118 17.5W	05/19/75		2306 GMT		33 34.5N	118 22.0W	05/19/75		2123 GMT	
BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES		BOTTUM	WIND SPEED	WEATHER	Dominant	WAVES	
205M	290 10KT	2	290	2 2		907M	280 9KT	2	270	2 1	
Z T S SIGMA T DT DD	Z T S SIGMA T DT DD					Z T S SIGMA T DT DD					
0 15.60 33.71 24.866 309.4 0.000	0 15.31 33.66 24.892 306.9 0.000										
10 14.95 33.69 24.994 297.2 0.030	10 15.09 33.65 24.933 303.1 0.030										
20 14.15 33.65 25.134 283.9 0.059	20 14.27 33.63 25.093 287.8 0.060										
30 11.92 33.62 25.554 244.0 0.085	30 13.03 33.62 25.339 264.4 0.087										
40 11.58 33.60 25.601 239.4 0.110	40 11.33 33.65 25.686 231.4 0.112										
50 10.62 33.69 25.844 216.4 0.133	50 10.71 33.64 25.789 221.6 0.135										
75 9.37 33.84 26.172 185.2 0.183	75 9.75 33.75 26.039 197.8 0.188										
100 9.29 33.90 26.232 179.6 0.229	100 9.26 33.86 26.205 182.0 0.236										
125 9.01 33.96 26.323 170.8 0.273	125 8.89 33.94 26.327 170.5 0.280										
150 8.67 34.04 26.439 159.8 0.315	150 8.65 33.98 26.396 164.0 0.323										
163 8.52 34.09 26.502 153.9 0.336	175 8.67 34.10 26.486 155.4 0.363										
	200 7.97 34.10 26.593 145.2 0.402										

90027					RV DAVID STARR JORDAN					CALCOFI CRUISE 7505					90028			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
33 29.5N	117 45.5W	05/21/75	0252 GMT		33 28.5N	117 47.0W	05/21/75	0405 GMT										
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES										
47M	9KT	1	250 4 9		371M	6KT	1											
Z T S SIGMA T DT DD					Z T S SIGMA T DT DD					Z T S SIGMA T DT DD								
0 15.50 33.70 24.881 308.0 0.000					0 15.32 33.68 24.905 305.7 0.000					0 15.30 33.68 24.910 305.2 0.030								
10 14.45 33.69 25.101 287.0 0.029					10 15.30 33.68 24.910 305.2 0.030					20 12.80 33.62 25.385 260.1 0.058								
20 12.21 33.66 25.530 246.3 0.056					20 11.47 33.62 25.637 236.0 0.083					30 11.05 33.68 25.760 224.4 0.106								
30 11.36 33.69 25.712 229.0 0.080					40 10.23 33.72 25.935 207.7 0.128					50 9.53 33.82 26.130 189.2 0.178								
40 10.94 33.73 25.818 218.8 0.102					75 9.22 33.87 26.220 180.7 0.225					100 8.91 33.94 26.324 170.8 0.269								
					125 8.67 33.99 26.400 163.5 0.312					150 8.42 34.07 26.471 156.9 0.352								
					175 8.49 34.14 26.546 149.7 0.392					200 8.49 34.14 26.546 149.7 0.392								
90029					RV DAVID STARR JORDAN					CALCOFI CRUISE 7505					90030			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
33 27.0N	117 49.5W	05/21/75	0531 GMT		33 25.0N	117 53.5W	05/21/75	0722 GMT										
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES										
630M	3KT	1			648M	6KT	1											
Z T S SIGMA T DT DD					Z T S SIGMA T DT DD					Z T S SIGMA T DT DD								
0 15.31 33.68 24.907 305.4 0.000					0 15.56 33.67 24.844 311.5 0.000					0 15.29 33.68 25.000 296.6 0.030								
10 15.29 33.68 24.912 305.0 0.030					10 14.85 33.67 25.000 296.6 0.030					20 13.40 33.61 25.257 272.2 0.058								
20 13.48 33.63 25.256 272.2 0.059					30 11.62 33.56 25.563 243.1 0.084					40 10.82 33.56 25.708 229.3 0.108								
30 12.07 33.61 25.518 247.4 0.085					50 10.56 33.60 25.784 222.0 0.131					75 10.11 33.71 25.948 206.5 0.185								
40 10.92 33.64 25.752 225.1 0.109					100 9.49 33.85 26.160 186.3 0.234					125 9.11 33.93 26.284 174.6 0.280								
50 10.66 33.69 25.837 217.1 0.131					150 8.82 33.97 26.361 167.2 0.323					175 8.52 34.01 26.439 159.8 0.365								
75 9.63 33.79 26.090 193.0 0.183					200 8.24 34.07 26.529 151.3 0.405													
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																		
90031					RV DAVID STARR JORDAN					CALCOFI CRUISE 7505					90032			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
33 23.0N	117 57.5W	05/21/75	0900 GMT		33 21.0N	118 01.5W	05/21/75	1050 GMT										
BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND SPEED	WEATHER	DOMINANT WAVES										
371M	10KT	1			750M	4KT	1											
Z T S SIGMA T DT DD					Z T S SIGMA T DT DD					Z T S SIGMA T DT DD								
0 15.12 33.64 24.918 304.4 0.000					0 14.51 33.62 25.034 293.4 0.000					0 15.08 33.64 25.037 293.2 0.029								
10 15.08 33.64 24.927 303.6 0.030					10 14.50 33.62 25.037 293.2 0.029					20 14.47 33.62 25.043 292.6 0.058								
20 13.47 33.64 25.266 271.3 0.059					30 12.75 33.56 25.348 263.5 0.086					40 12.00 33.54 25.477 251.3 0.112								
30 13.00 33.63 25.353 263.1 0.085					50 11.62 33.56 25.563 243.1 0.137					75 10.15 33.61 25.863 214.6 0.194								
40 11.85 33.56 25.520 247.2 0.111					100 9.60 33.82 26.119 190.3 0.245					125 9.23 33.91 26.249 177.9 0.292								
50 11.39 33.54 25.590 240.5 0.136					150 8.82 34.00 26.385 165.0 0.335					175 8.34 34.02 26.474 156.5 0.376								
75 10.42 33.64 25.840 216.8 0.193					200 8.11 34.07 26.548 149.5 0.415													
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																		

90037				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				90045			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME								
33 11.5N	118 22.5W	05/21/75	1404 GMT	32 54.0N	118 56.0W	05/21/75	1840 GMT								
BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES								
1202M	280 4Kt	1	300 5 7	1756M	310 15Kt	1	300 8 7								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	13.94	33.63	25.162	281.2	0.000	0	13.39	33.74	25.359	262.5	0.000	0	13.94	33.63	25.162
10	13.94	33.63	25.162	281.2	0.028	10	13.33	33.74	25.372	261.3	0.026	10	13.94	33.63	25.162
20	13.92	33.63	25.166	280.9	0.056	20	13.30	*33.74	25.378	260.7	0.052	20	13.92	33.63	25.166
30	13.36	33.63	25.280	269.9	0.083	30	10.70	33.74	25.869	214.0	0.076	30	13.36	33.63	25.280
40	12.35	33.62	25.412	251.8	0.110	40	10.03	33.75	25.992	202.3	0.097	40	12.35	33.62	25.412
50	11.40	33.61	25.642	235.5	0.134	50	9.69	33.81	26.096	192.4	0.116	50	11.40	33.61	25.642
75	10.27	33.69	25.905	210.6	0.190	75	9.29	33.90	26.232	179.6	0.163	75	10.27	33.69	25.905
100	9.47	33.83	26.148	187.5	0.240	100	8.99	33.97	26.334	169.8	0.207	100	9.47	33.83	26.148
125	8.92	33.97	26.345	168.7	0.285	125	8.61	34.05	26.457	158.2	0.249	125	8.92	33.97	26.345
150	8.55	34.02	26.442	159.5	0.327	150	8.52	34.10	26.510	153.1	0.288	150	8.55	34.02	26.442
175	8.06	34.05	26.540	150.2	0.367	175	8.49	34.17	26.569	147.5	0.327	175	8.06	34.05	26.540
200	7.88	34.08	26.590	145.5	0.404	200	8.00	34.14	26.620	142.7	0.364	200	7.88	34.08	26.590
225	7.90	34.12	26.619	142.8	0.441	225	7.69	34.15	26.673	137.6	0.400	225	7.90	34.12	26.619
250	7.57	34.12	26.667	138.2	0.477	250	7.54	34.17	26.711	134.1	0.435	250	7.57	34.12	26.667
275	7.16	34.11	26.717	133.5	0.512	275	7.01	34.16	26.777	127.7	0.469	275	7.16	34.11	26.717
300	6.93	34.14	26.772	128.2	0.546	300	6.55	34.13	26.816	124.1	0.501	300	6.93	34.14	26.772
350	6.72	34.22	26.864	119.5	0.611	350	6.37	34.19	26.887	117.4	0.564	350	6.72	34.22	26.864
400	6.18	34.23	26.943	112.0	0.671	400	6.29	34.25	26.944	111.9	0.624	400	6.18	34.23	26.943
450	6.05	34.28	26.999	106.7	0.729	450	6.04	34.28	27.000	106.6	0.681	450	6.05	34.28	26.999
500	5.83	34.30	27.043	102.6	0.784	500	5.76	34.30	27.051	101.8	0.737	500	5.83	34.30	27.043
550	5.69	34.34	27.092	97.9	0.838	550	5.50	34.32	27.099	97.2	0.790	550	5.69	34.34	27.092
600	5.44	34.35	27.130	94.3	0.890	600	5.28	34.35	27.149	92.5	0.840	600	5.44	34.35	27.130
700	5.00	34.38	27.206	87.1	0.988	700	4.90	34.39	27.225	85.3	0.937	700	5.00	34.38	27.206
800	4.67	34.41	27.267	81.3	1.080	800	4.60	34.41	27.274	80.6	1.028	800	4.67	34.41	27.267
900	4.33	34.45	27.336	74.8	1.167	900	4.31	34.44	27.330	75.3	1.114	900	4.33	34.45	27.336
1000	4.16	34.47	27.370	71.6	1.249	1000	4.09	34.47	27.377	70.9	1.197	1000	4.16	34.47	27.370

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				90045								
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES								
32 54.0N	118 56.0W	5/21/75	2003	1756M	310	15KT	1	300	8	7						
Z	T	S	O2	PO4	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	13.49	33.751	6.13						263.6	0	13.49	33.751	6.13	25.348	263.6	0.000
11	13.36	33.752	6.12						261.0	10	13.37	33.753	6.12	25.372	261.2	0.026
29	10.83	33.767	4.30						214.2	20	12.19	33.748	5.30	25.601	239.5	0.051
55	9.69	33.859	3.19						188.8	30	10.75	33.771	4.23	25.883	212.6	0.074
72	9.38	33.907	2.91						180.4	50	9.76	33.843	3.30	26.109	191.2	0.114
82	9.21	33.952	2.80						174.5	75	9.32	33.921	2.87	26.241	178.6	0.161
96	8.98	34.001	2.66						167.3	100	8.91	34.010	2.61	26.377	165.7	0.204
119	8.67	34.040	2.39						159.8	125	8.63	34.054	2.34	26.455	158.3	0.245
137	8.59	34.080	2.25						155.6	150	8.52	34.105	2.10	26.513	152.9	0.285
155	8.49	34.113	2.04						151.7	200	7.92	34.160	1.57	26.646	140.2	0.360
182	8.15	34.150	1.69						144.1	250	7.29	34.153	1.40	26.732	132.0	0.429
238	7.46	34.160	1.44						133.8	300	6.67	34.136	1.22	26.804	125.3	0.496
316	6.51	34.135	1.16						123.2	400	6.24	34.263	0.50	26.961	110.3	0.619
396	6.21	34.260	0.52						110.9	500	5.59	34.307	0.29	27.077	99.3	0.729
474	5.72	34.298	0.34						101.4	600	5.20	34.338	0.22	27.149	92.5	0.832
573	5.30	34.328	0.21						94.4	700	4.87	34.377	0.26	27.217	86.1	0.929
686	4.92	34.371	0.26						86.9	800	4.59	34.415	0.30	27.279	80.2	1.020
809	4.57	34.418	0.31						79.7							

90053				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				90060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
32 39.0N	119 28.5W	05/22/75	0014 GMT	32 25.0N	119 58.0W	05/22/75	0353 GMT	1387M	310	20KT	WEATHER	DOMINANT WAVES			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	12.55	33.60	25.418	256.9	0.000	0	12.60	33.64	25.439	254.9	0.000	0	12.55	33.60	25.418
10	12.43	33.60	25.441	254.7	0.025	10	12.60	33.64	25.439	254.9	0.025	10	12.43	33.60	25.441
20	12.37	33.61	25.460	252.8	0.051	20	12.60	33.64	25.439	254.9	0.051	20	12.37	33.61	25.460
30	12.25	33.61	25.483	250.7	0.076	30	12.59	33.64	25.441	254.7	0.076	30	12.25	33.61	25.483
40	12.24	33.63	25.501	249.0	0.101	40	12.57	33.64	25.445	254.3	0.102	40	12.24	33.63	25.501
50	12.25	33.64	25.507	248.5	0.126	50	12.51	33.64	25.456	253.2	0.127	50	12.25	33.64	25.507
75	10.44	33.65	25.844	216.4	0.184	75	11.26	33.67	25.714	228.7	0.188	75	10.44	33.65	25.844
100	9.65	33.69	26.009	200.7	0.237	100	9.95	33.71	25.975	204.0	0.242	100	9.65	33.69	26.009
125	8.90	33.90	26.294	173.6	0.284	125	9.09	33.8							

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								
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
4116M	320	15KT	2	150 7 6	3737M	330	16KT	2	310 7 7	3737M	330	16KT	2	310 7 7	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD
0	17.60	33.38	25.238	274.0	0.000	0	13.42	33.37	25.068	290.2	0.000	0	13.42	33.37	25.068
10	17.59	33.38	25.240	273.8	0.027	10	13.42	33.37	25.068	290.2	0.029	10	13.42	33.37	25.068
20	17.59	33.38	25.240	273.8	0.054	20	13.42	33.37	25.068	290.2	0.058	20	13.42	33.37	25.068
30	17.58	33.38	25.242	273.6	0.082	30	13.41	33.37	25.070	290.0	0.087	30	13.41	33.37	25.070
40	17.57	33.38	25.244	273.5	0.109	40	12.66	33.37	25.219	275.8	0.115	40	12.66	33.37	25.219
50	12.40	33.39	25.285	269.6	0.136	50	12.54	33.40	25.265	271.4	0.143	50	12.54	33.40	25.265
75	11.85	33.41	25.404	258.2	0.203	75	12.32	33.49	25.377	260.8	0.209	75	12.32	33.49	25.377
100	11.46	33.56	25.593	240.3	0.266	100	11.91	33.58	25.525	246.7	0.273	100	11.91	33.58	25.525
125	10.57	33.59	25.775	222.9	0.324	125	10.72	33.60	25.757	224.7	0.333	125	10.72	33.60	25.757
150	9.71	33.76	26.054	196.5	0.377	150	9.48	33.73	26.068	195.1	0.386	150	9.48	33.73	26.068
175	9.09	33.88	26.248	178.0	0.425	175	9.16	33.90	26.253	177.6	0.434	175	9.16	33.90	26.253
200	8.65	33.98	26.396	164.0	0.469	200	8.78	34.00	26.391	164.4	0.477	200	8.78	34.00	26.391
225	8.32	34.01	26.470	156.9	0.510	225	8.46	34.04	26.472	156.7	0.518	225	8.46	34.04	26.472
250	7.76	34.02	26.561	148.3	0.549	250	8.14	34.06	26.536	150.6	0.558	250	8.14	34.06	26.536
275	7.34	34.02	26.621	142.5	0.586	275	7.86	34.09	26.601	144.5	0.596	275	7.86	34.09	26.601
300	6.87	34.03	26.694	135.6	0.622	300	7.55	34.10	26.654	139.4	0.633	300	7.55	34.10	26.654
350	6.37	34.07	26.792	126.3	0.690	350	6.91	34.16	26.791	126.4	0.702	350	6.91	34.16	26.791
400	5.95	34.13	26.893	116.7	0.753	400	6.60	34.22	26.880	118.0	0.765	400	6.60	34.22	26.880
450	5.71	34.21	26.986	107.9	0.812	450	6.14	34.23	26.948	111.5	0.826	450	6.14	34.23	26.948
500	5.74	34.26	27.022	104.5	0.868	500	5.86	34.25	27.000	106.7	0.884	500	5.86	34.25	27.000
550	5.52	34.28	27.065	100.4	0.923	550	5.57	34.28	27.059	101.0	0.939	550	5.57	34.28	27.059
600	5.29	34.32	27.124	94.8	0.975	600	5.34	34.32	27.118	95.4	0.991	600	5.34	34.32	27.118
700	4.92	34.37	27.207	87.0	1.074	700	4.89	34.37	27.210	86.7	1.090	700	4.89	34.37	27.210
800	4.60	34.41	27.274	80.6	1.165	800	4.52	34.42	27.291	79.0	1.181	800	4.52	34.42	27.291
900	4.26	34.44	27.335	74.8	1.252	900	4.21	34.45	27.349	73.6	1.266	900	4.21	34.45	27.349
1000	3.93	34.47	27.394	69.3	1.333	1000	3.97	34.48	27.397	68.9	1.346	1000	3.97	34.48	27.397

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				90090							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	LATITUDE	LONGITUDE	MO/DAY/YR	DOMINANT WAVES	LATITUDE	LONGITUDE	MO/DAY/YR	DOMINANT WAVES	Z	T	S	DD
31 24.0N	122 01.0W	5/22/75	1955	31 24.0N	122 01.0W	5/22/75	320 6 8	31 24.0N	122 01.0W	5/22/75	320 6 8	Z	T	S	DD
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
4116M	330	14KT	1	320 10 9	3737M	330	14KT	1	320 10 9	3737M	330	14KT	1	320 10 9	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	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				91026			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	DOMINANT WAVES	LATITUDE	LONGITUDE	MO/DAY/YR	DOMINANT WAVES	Z	T	S	DD
31 24.0N	122 01.0W	05/22/75	1855	31 24.0N	122 01.0W	05/24/75	320 2 2	31 24.0N	122 01.0W	05/24/75	320 2 2	Z	T	S	DD
BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT WAVES	
4116M	330	14KT	1	320 10 9	3737M	330	14KT	2	320 10 9	3737M	330	14KT	2	320 10 9	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD
0	12.83	33.24	24.884	307.7	0.000	0	15.58	33.71	24.871	308.9	0.000	0	15.58	33.71	24.871
10	13.79	33.24	24.893	306.9	0.030	5	15.51	33.71	24.886	307.5	0.015	5	15.51	33.71	24.886
20	13.50	33.23	24.944	302.0	0.061	10	15.25	33.71	24.944	302.0	0.030	10	15.25	33.71	24.944
30	13.51	33.29	24.988	297.8	0.091	13	14.33	33.69	25.126	284.6	0.039	13	14.33	33.69	25.126
40	13.68	33.35	25.000	296.7	0.121										

RV DAVID STARR JORDAN						CALCUTTA CRUISE 7505						91028	
LATITUDE	LONGITUDE	MU/DAY/YR	START TIME	LATITUDE	LONGITUDE	MU/DAY/YR	START TIME						
33 14.0N	117 29.0W	05/24/75	1515 GMT	33 11.5N	117 34.0W	05/24/75	1351 GMT						
BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES	BOTTOM	WIND	SPEED	WEATHER	Dominant	Waves		
60M	250	5KT	2	250	2	2	75-9M	090	7KT	2	DD		
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DD		
0	16.06	33.72	24.770	318.5	0.000	0	15.37	33.71	24.917	304.5	0.000		
10	15.61	33.71	24.864	309.6	0.031	10	15.35	33.71	24.922	304.1	0.030		
20	17.40	33.68	25.509	248.3	0.059	20	11.30	33.62	25.668	233.1	0.057		
30	11.11	33.67	25.741	226.1	0.083	30	10.15	33.71	25.941	207.2	0.079		
40	10.55	33.68	25.848	215.9	0.105	40	9.83	33.76	26.034	198.4	0.099		
50	10.22	33.71	25.929	208.3	0.126	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		

91029		RV DAVID STARR JORDAN	CALCOFI CRUISE 7505				91030				
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 09.5N	117 38.0W	05/24/75	1221 GMT	33 07.5N	117 42.0W	05/24/75	1037 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES		
815M	050	5KT		2	833M	350	1KT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.62	33.72	24.869	309.1	0.000	0	15.38	33.72	24.923	304.0	0.000
10	15.34	33.72	24.931	303.2	0.030	10	15.33	33.72	24.934	303.0	0.030
20	11.23	33.63	25.689	231.1	0.057	20	11.15	33.68	25.632	236.5	0.057
30	10.43	33.65	25.846	216.2	0.079	30	10.44	33.68	25.868	214.1	0.079
40	9.71	33.71	26.015	200.2	0.100	40	10.01	33.74	25.988	202.7	0.100
50	9.58	33.80	26.106	191.5	0.120	50	9.68	33.79	26.082	193.8	0.120
75	9.33	33.90	26.225	180.2	0.167	75	9.14	33.88	26.240	178.7	0.167
100	9.13	33.92	26.273	175.6	0.212	100	8.88	33.97	26.352	168.1	0.211
125	8.92	34.00	26.369	166.5	0.255	125	8.92	34.09	26.439	159.8	0.255
150	8.77	34.03	26.416	162.0	0.297	150	8.67	34.10	26.486	155.4	0.293
175	8.58	34.09	26.492	154.8	0.337	175	8.63	34.14	26.524	151.8	0.332
200	8.43	34.12	26.539	150.4	0.376	200	8.59	34.19	26.569	147.5	0.370
212	8.39	34.14	26.561	148.3	0.394	213	8.51	34.21	26.597	144.8	0.390

93026		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				93026			
LATITUDE	LONGITUDE	MO/DAY/YR		START TIME		LATITUDE	LONGITUDE	MO/DAY/YR		START TIME			
32 57.0N	117 17.5W	05/25/75		2140 GMT		32 57.0N	117 18.5W	05/25/75		2246 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES			
32M	210	5KT	1	110	2	2	65M	240	6KT	1	270	2	2
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU		
0	16.73	33.72	24.616	333.2	0.000	0	16.51	33.71	24.660	329.0	0.000		
5	14.94	33.69	24.996	297.0	0.015	10	14.68	33.67	25.037	293.1	0.031		
10	14.54	33.66	25.059	291.0	0.030	20	12.44	33.63	25.462	252.7	0.056		
15	14.01	33.66	25.171	280.4	0.044	30	12.23	33.63	25.503	248.8	0.063		
20	13.96	33.67	25.189	278.7	0.058	40	11.25	33.65	25.701	230.0	0.107		
26	13.67	33.68	25.256	272.3	0.075	50	10.67	33.68	25.828	218.0	0.130		

93028			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			93029		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 54.5N	117 22.0W	05/26/75	0012 GMT			32 52.5N	117 26.5W	05/26/75	0150 GM		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	
602M	280	6KT	1	220 2 4		621M	270	6KT	2	230 2 3	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.95	33.67	24.527	341.7	0.000	0	16.22	33.69	24.711	324.2	0.00
10	14.92	33.57	24.908	305.4	0.032	10	15.34	33.65	24.878	308.3	0.03
20	13.34	33.53	25.208	276.9	0.061	20	12.55	33.58	25.402	258.4	0.06
30	11.85	33.52	25.489	250.1	0.087	30	11.21	33.59	25.661	233.7	0.08
40	10.75	33.56	25.720	228.2	0.111	40	10.42	33.64	25.840	216.8	0.10
50	10.23	33.62	25.857	215.1	0.134	50	10.14	33.66	25.904	210.7	0.12
75	9.46	33.81	26.134	188.8	0.185	75	9.43	33.83	26.154	186.9	0.17
100	9.22	33.91	26.251	177.7	0.231	100	9.09	33.93	26.287	174.3	0.22
125	9.02	33.96	26.322	171.0	0.275	125	8.87	34.01	26.385	165.0	0.26
150	8.76	34.02	26.410	162.6	0.317	150	8.63	34.06	26.461	157.7	0.30
175	8.71	34.08	26.465	157.4	0.358	175	8.55	34.15	26.544	149.9	0.34
200	8.59	34.14	26.530	151.2	0.398	200	8.32	34.20	26.619	142.8	0.38
212	8.50	34.18	26.575	146.9	0.416						

93030				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				93040					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME										
32 51.0N	117 31.5W	05/26/75	0325 GMT	32 30.0N	118 11.5W	05/24/75	0433 GMT										
BOTTUM	WIND	SPEED	WEATHER	DIMINANT	WAVES	BOTTUM	WIND	SPEED	WEATHER	DIMINANT	WAVES	Z	T	S	SIGMA T	DT	DD
88HM	250	6KT				1756M	300	12KT									
0	16.77	33.73	24.615	333.4	0.000	0	14.38	33.56	25.016	295.1	0.000						
10	16.32	33.71	24.703	324.9	0.032	10	14.30	33.55	25.025	294.3	0.029						
20	14.90	33.66	24.982	298.4	0.064	20	14.12	33.55	25.063	290.7	0.058						
30	11.69	33.64	25.612	238.4	0.091	30	13.51	33.54	25.181	279.4	0.087						
40	10.12	33.75	25.977	203.7	0.113	40	12.20	33.52	25.423	256.4	0.114						
50	9.72	33.84	26.114	190.7	0.133	50	11.84	33.50	25.476	251.4	0.139						
75	9.32	33.95	26.266	176.3	0.179	75	10.92	33.50	25.644	235.5	0.200						
100	8.93	34.05	26.406	162.9	0.222	100	9.90	33.62	25.913	209.8	0.257						
125	8.75	34.09	26.466	157.3	0.262	125	9.33	33.86	26.194	183.1	0.306						
150	8.60	34.14	26.528	151.3	0.301	150	8.48	33.94	26.313	171.8	0.351						
175	8.29	34.14	26.576	146.8	0.339	175	8.83	34.04	26.414	162.2	0.394						
200	8.03	34.18	26.646	140.2	0.316	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	1.209						
						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	1479M	320	15KT	1	320 3 5							
Z	T	S	O2	P04	S103	N02	N03	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

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				93060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	DOMINANT WAVES			
32 10.0N	118 53.0W	05/23/75	2235	31 50.0N	119 34.0W	05/23/75	1653	320 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	0.115	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	0.589	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

93070				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				93080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 30.0N	120 14.0W	05/23/75	1155 GMT					31 10.0N	120 54.0W	05/23/75	0620 GMT				
BOTTUM	WIND	SPEED	WEATHER	DOMINANT	WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT	WAVES	7	8	7	8
4116M	320	15KT				373/M	340	13KT							
2	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	12.75	33.47	25.278	270.2	0.000	0	13.96	33.49	25.050	291.9	0.000				
10	12.75	33.47	25.278	270.2	0.027	10	13.96	33.49	25.050	291.9	0.029				
20	12.75	33.56	25.348	263.5	0.053	20	13.85	33.49	25.073	289.7	0.058				
30	12.67	33.59	25.387	259.9	0.079	30	13.28	33.48	25.181	279.4	0.086				
40	12.67	33.61	25.402	258.4	0.106	40	13.28	33.48	25.181	279.4	0.114				
50	12.67	33.65	25.433	255.5	0.131	50	12.83	33.46	25.255	272.4	0.142				
75	11.58	33.65	25.640	235.7	0.193	75	11.55	33.43	25.475	251.4	0.208				
100	10.17	33.69	25.922	209.0	0.249	100	10.75	33.48	25.658	234.1	0.269				
125	9.26	33.79	26.151	187.2	0.299	125	9.85	33.67	25.960	205.3	0.325				
150	5.01	33.91	26.331	170.1	0.345	150	8.98	33.80	26.203	182.2	0.374				
175	8.65	34.02	26.427	161.0	0.387	175	8.57	33.90	26.345	168.7	0.418				
200	8.25	34.07	26.527	151.5	0.427	200	8.25	33.95	26.434	160.4	0.460				
225	7.88	34.08	26.590	145.5	0.465	225	7.85	33.99	26.524	151.8	0.500				
250	7.83	34.15	26.653	139.6	0.501	250	7.43	34.00	26.593	145.2	0.538				
275	7.58	34.16	26.697	135.4	0.537	275	7.16	34.02	26.646	140.2	0.575				
300	7.16	34.16	26.757	129.7	0.571	300	6.87	34.05	26.710	134.1	0.611				
350	6.74	34.21	26.847	121.2	0.636	350	6.55	34.11	26.800	125.6	0.678				
400	6.15	34.22	26.939	112.4	0.697	400	6.31	34.16	26.871	118.8	0.742				
450	5.88	34.24	26.989	107.7	0.755	450	6.00	34.21	26.950	111.3	0.802				
500	5.72	34.28	27.041	102.8	0.811	500	5.67	34.24	27.015	105.2	0.859				
550	5.45	34.30	27.089	98.2	0.865	550	5.38	34.29	27.090	98.1	0.913				
600	5.26	34.32	27.128	94.5	0.916	600	5.13	34.32	27.143	93.1	0.965				
700	4.84	34.37	27.216	86.1	1.014	700	4.78	34.38	27.231	84.7	1.061				
800	4.43	34.41	27.293	78.8	1.104	800	4.44	34.42	27.300	78.2	1.150				
900	4.20	34.45	27.350	73.5	1.189	900	4.14	34.45	27.356	72.9	1.234				
1000	2.94	34.48	27.401	68.6	1.269	1000	3.82	34.48	27.413	67.5	1.313				

93090				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				94032			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
30 50.0N	121 34.5W	05/23/75	0100 GMT					32 40.0N	117 35.0W	05/08/75	1918 GMT				
BOTTUM	WIND	SPEED	WEATHER	DOMINANT	WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT	WAVES	1	2	270	3
4212M	350	12KT		1	290	7	8	1184M	240	4KT		1	270	3	7
2	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	14.28	33.35	24.875	308.5	0.000	0	15.11	33.62	24.905	305.7	0.000				
10	14.17	33.35	24.899	306.3	0.030	10	14.85	33.61	24.954	301.0	0.030				
20	13.72	33.32	24.968	299.7	0.061	20	13.97	33.60	25.133	284.0	0.059				
30	12.71	33.30	24.955	300.9	0.091	30	11.95	33.58	25.517	247.5	0.086				
40	13.70	33.30	24.957	300.8	0.121	40	10.78	33.58	25.730	227.2	0.110				
50	12.67	33.30	24.963	300.2	0.151	50	10.45	33.60	25.804	220.2	0.132				
75	12.43	33.28	24.997	297.0	0.226	75	9.66	33.80	26.093	192.7	0.184				
100	12.70	33.43	25.051	291.2	0.300	100	9.12	33.90	26.259	177.0	0.231				
125	11.52	33.46	25.504	248.7	0.368	125	8.84	33.99	26.374	166.0	0.274				
150	10.57	33.54	25.736	226.6	0.429	150	8.83	34.10	26.461	157.7	0.315				
175	9.55	33.67	26.010	200.6	0.483	175	8.72	34.13	26.502	153.9	0.355				
200	8.97	33.81	26.213	181.4	0.531	200	8.59	34.17	26.553	149.0	0.394				
225	8.48	33.95	26.398	163.7	0.576	225	8.39	34.21	26.616	143.1	0.431				
250	8.26	34.00	26.471	156.8	0.617	250	8.34	34.26	26.662	138.6	0.467				
275	7.88	34.02	26.548	149.5	0.656	275	8.23	34.30	26.710	134.1	0.503				
300	7.51	34.04	26.613	143.4	0.694	300	7.96	34.30	26.751	130.2	0.537				
350	6.99	34.09	26.725	132.7	0.766	350	7.19	34.24	26.815	124.2	0.603				
400	6.38	34.13	26.838	121.9	0.832	400	6.75	34.24	26.876	118.4	0.667				
450	5.97	34.17	26.922	114.0	0.894	450	6.61	34.26	26.910	115.1	0.728				
500	5.62	34.21	26.998	106.8	0.952	500	6.26	34.29	26.980	108.5	0.788				
550	5.49	34.27	27.061	100.8	1.007	550	5.92	34.32	27.047	102.1	0.844				
600	5.16	34.30	27.124	94.9	1.060	600	5.54	34.34	27.110	96.2	0.897				
700	4.84	34.37	27.216	86.1	1.157	700	5.06	34.38	27.199	87.8	0.997				
800	4.47	34.42	27.297	78.5	1.248	800	4.64	34.40	27.262	81.8	1.090				
900	4.13	34.44	27.349	73.5	1.332	900	4.24	34.45	27.345	73.9	1.176				
1000	2.88	34.47	27.399	68.8	1.412	1000	3.95	34.48	27.400	68.7	1.257				

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				94032			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENDER TIME	BOTTUM	WIND	SPEED	WEATHER	DOMINANT	WAVES	270	3
32 40.0N	117 35.0W	5/8/75	2048	1184M	240	4KT		270	3	7	7
1	15.38	33.639		309.9	0	15.38	33.639	0.00	24.861	309.9	0.000
11	14.71	33.625		298.3	10	14.84	33.628	0.00	24.968	299.7	0.030
29	12.96	33.581		265.9	20	13.91	33.599	0.00	25.143	283.1	0.059
57	10.38	33.656		214.9	30	12.85	33.581	0.00	25.344	263.9	0.087
75	9.58	33.776		193.2	50	10.93	33.623	0.00	25.735	226.7	0.136
89	9.50	33.873		184.8	75	9.58	33.776	0.00	26.088	193.2	0.189
103	9.16	33.934		175.0	100	9.23	33.924	0.00	26.258	177.0	0.235
131	8.91	34.005		166.0	125	8.92	33.993	0.00	26.362	167.2	0.279
153	8.91	34.072		161.0	150	8.91	34.064	0.00</td			

95028		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				95029	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 37.0N	117 10.5W	05/26/75	1317 GMT	32 35.0N	117 14.5W	05/26/75	1145 GMT				
BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES				
19M	250 4KT	2	210 1 2	47M	200 5KT						
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	15.73	33.75	24.868	309.2	0.000	0	15.75	33.66	24.794	316.2	0.000
5	15.66	33.75	24.884	307.7	0.015	10	13.75	33.64	25.209	276.8	0.029
10	13.30	33.67	25.324	265.9	0.029	20	10.21	33.71	25.930	208.1	0.053
15	10.76	33.63	25.773	223.1	0.042	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				CALCOFI CRUISE 7505				95031	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 33.0N	117 18.5W	05/26/75	1015 GMT	32 31.0N	117 22.5W	05/26/75	0819 GMT				
BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES				
168M	280 4KT			685M	210 6KT						
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	15.55	33.66	24.839	312.0	0.000	0	14.83	33.64	24.981	298.4	0.000
10	14.60	33.59	24.992	297.4	0.030	10	13.98	33.63	25.154	282.0	0.029
20	11.92	33.45	25.422	256.5	0.058	20	13.07	33.62	25.331	265.2	0.056
30	11.12	33.53	25.631	236.6	0.082	30	13.05	33.67	25.374	261.1	0.082
40	10.72	33.61	25.764	224.0	0.106	40	11.74	33.59	25.564	243.0	0.108
50	10.43	33.65	25.846	216.2	0.128	50	11.23	33.55	25.627	237.0	0.132
75	9.81	33.79	26.060	195.8	0.179	75	9.94	33.61	25.899	211.2	0.188
100	9.43	33.89	26.201	182.4	0.227	100	9.48	33.83	26.146	187.7	0.238
125	9.16	33.97	26.307	172.4	0.272	125	9.17	33.95	26.290	174.0	0.284
150	8.95	34.04	26.395	164.0	0.315	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				CALCOFI CRUISE 7505				97032	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 29.0N	117 27.0W	05/26/75	0632 GMT	32 12.0N	117 15.0W	05/26/75	1915 GMT				
BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND SPEED	WEATHER	DOMINANT WAVES				
1128M	220 6KT			556M	250 5KT						
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	14.59	33.63	25.025	294.3	0.000	0	15.57	33.64	24.819	313.9	0.000
10	13.85	33.62	25.173	280.2	0.028	10	15.20	33.61	24.878	308.3	0.031
20	13.33	33.65	25.302	267.9	0.056	20	13.05	33.55	25.281	269.9	0.060
30	12.61	33.66	25.453	253.6	0.082	30	11.62	33.52	25.532	246.0	0.085
40	11.23	33.54	25.619	237.8	0.106	40	10.83	33.55	25.698	230.2	0.109
50	10.86	33.50	25.654	234.4	0.130	50	10.15	33.65	25.894	211.6	0.132
75	9.88	33.73	26.002	201.4	0.185	75	9.56	33.84	26.141	188.2	0.182
100	9.32	33.91	26.235	179.3	0.233	100	9.19	33.96	26.295	173.6	0.227
125	9.06	33.97	26.323	170.8	0.277	125	9.12	34.08	26.399	163.6	0.270
150	8.88	34.06	26.422	161.4	0.320	150	9.05	34.14	26.458	158.1	0.311
175	8.78	34.14	26.500	154.0	0.360	175	9.06	34.18	26.487	155.3	0.351
200	8.81	34.21	26.550	149.3	0.399	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

97035

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

97040

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 05.5N	117 27.5W	05/26/75	2125 GMT	31 56.0N	117 48.0W	05/27/75	0011 GMT				
BOTTOM	WIND	SPEED	WEATHER	Dominant Waves	BOTTOM	WIND	SPEED	WEATHER	Dominant Waves		
1202M	260	10KT	2	250 6 7	1572M	290	11KT	2	240 3 8		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.17	33.67	24.707	324.5	0.000	0	15.36	33.58	24.820	313.8	0.000
10	15.53	33.67	24.851	310.8	0.031	10	14.72	33.58	24.959	300.6	0.030
20	15.10	33.67	24.946	301.8	0.062	20	14.62	33.58	24.980	298.5	0.060
30	12.88	33.63	25.376	260.8	0.090	30	14.38	33.58	25.031	293.7	0.090
40	11.72	33.61	25.583	241.2	0.115	40	14.03	33.57	25.097	287.4	0.119
50	10.61	33.60	25.776	222.9	0.139	50	13.55	33.57	25.196	278.0	0.147
75	6.54	33.80	26.113	190.8	0.191	75	11.10	33.54	25.642	235.5	0.212
100	9.02	33.96	26.322	171.0	0.236	100	9.58	33.74	26.060	195.9	0.266
125	8.64	34.00	26.413	162.3	0.279	125	9.07	33.87	26.244	178.4	0.314
150	8.39	34.04	26.483	155.7	0.319	150	8.80	34.00	26.388	164.7	0.357
175	8.09	34.06	26.544	149.9	0.358	175	8.48	34.05	26.477	156.3	0.398
200	7.74	34.08	26.611	143.5	0.395	200	8.23	34.09	26.546	149.7	0.437
225	7.56	34.10	26.653	139.6	0.432	225	8.10	34.15	26.613	143.4	0.475
250	7.57	34.16	26.698	135.2	0.467	250	7.78	34.16	26.668	136.1	0.511
275	7.40	34.18	26.738	131.4	0.501	275	7.57	34.18	26.714	133.8	0.546
300	7.45	34.22	26.763	129.1	0.535	300	7.46	34.21	26.753	130.0	0.580
350	6.64	34.18	26.843	121.5	0.600	350	7.07	34.26	26.847	121.1	0.646
400	6.40	34.22	26.906	115.5	0.662	400	6.74	34.29	26.916	114.6	0.708
450	5.88	34.23	26.981	108.4	0.721	450	6.28	34.31	26.993	107.3	0.766
500	5.65	34.27	27.041	102.7	0.777	500	5.98	34.33	27.047	102.1	0.822
550	5.74	34.34	27.085	98.5	0.831	550	5.74	34.35	27.093	97.8	0.875
600	5.59	34.36	27.120	95.3	0.883	600	5.44	34.37	27.146	92.8	0.926
700	5.00	34.38	27.206	87.1	0.982	700	5.00	34.40	27.221	85.6	1.023
800	4.50	34.41	27.286	79.5	1.073	800	4.56	34.43	27.295	78.7	1.114
900	4.28	34.45	27.341	74.3	1.159	900	4.26	34.46	27.351	73.3	1.198
1000	3.90	34.48	27.405	68.2	1.239	1000	3.94	34.49	27.408	67.9	1.278

97050

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

97060

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 36.0N	118 30.5W	05/27/75	0530U GMT	31 15.5N	119 10.0W	05/27/75	1047 GMT				
BOTTOM	WIND	SPEED	WEATHER	Dominant Waves	BOTTOM	WIND	SPEED	WEATHER	Dominant Waves		
2509M	300	4KT			3545M	290	8KT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.81	33.58	24.940	302.4	0.000	0	14.93	33.52	24.868	309.3	0.000
10	14.45	33.58	25.017	295.1	0.029	10	14.91	33.52	24.872	308.9	0.030
20	14.36	33.59	25.043	292.5	0.059	20	14.57	33.52	24.945	301.9	0.061
30	13.75	33.60	25.178	279.7	0.088	30	14.54	33.52	24.951	301.3	0.091
40	13.24	33.61	25.289	269.1	0.115	40	14.52	33.52	24.956	300.9	0.121
50	12.93	33.62	25.359	262.5	0.142	50	13.45	33.48	25.147	282.7	0.151
75	11.41	33.61	25.641	235.7	0.204	75	12.26	33.45	25.358	262.6	0.219
100	10.44	33.65	25.844	216.4	0.261	100	11.30	33.48	25.560	243.4	0.283
125	9.28	33.77	26.132	189.0	0.313	125	10.03	33.59	25.868	214.1	0.341
150	8.65	33.90	26.333	169.9	0.358	150	9.37	33.77	26.117	190.4	0.392
175	8.32	33.96	26.431	160.7	0.400	175	8.87	33.83	26.244	178.4	0.439
200	8.12	34.03	26.516	152.6	0.440	200	8.46	33.98	26.425	161.2	0.482
225	7.88	34.07	26.583	146.2	0.479	225	8.11	34.00	26.494	154.7	0.523
250	7.54	34.08	26.640	140.8	0.515	250	7.72	34.02	26.567	147.7	0.562
275	7.57	34.15	26.691	136.0	0.551	275	7.47	34.07	26.642	140.6	0.599
300	7.13	34.16	26.761	129.3	0.585	300	7.18	34.09	26.699	135.2	0.634
350	6.71	34.17	26.826	123.1	0.651	350	6.75	34.14	26.797	125.9	0.702
400	6.14	34.18	26.909	115.3	0.713	400	6.42	34.19	26.880	118.0	0.766
450	5.96	34.23	26.971	109.3	0.772	450	6.17	34.22	26.936	112.7	0.826
500	5.73	34.25	27.015	105.2	0.829	500	5.70	34.26	27.027	104.0	0.884
550	5.53	34.31	27.088	98.3	0.883	550	5.51	34.29	27.074	99.6	0.938
600	5.19	34.34	27.152	92.2	0.934	600	5.22	34.33	27.140	93.3	0.990
700	4.89	34.38	27.218	85.9	1.031	700	4.87	34.38	27.220	85.7	1.087
800	4.49	34.42	27.295	78.7	1.121	800	4.58	34.41	27.277	80.4	1.178
900	4.22	34.46	27.355	72.9	1.205	900	4.29	34.45	27.340	74.4	1.263
1000	3.88	34.49	27.415	67.3	1.284	1000	3.95	34.49	27.407	68.0	1.344

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

97060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENDER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
31 15.5N	119 10.0W	5/27/75	1157 GMT	3545M	290	8KT						
Z	T	S	02	P04	S103	N02	N03	DT	SIGT	DT	DD	
1	14.94	33.505	5.92		310.5	0	14.94	33.505	5.92	24.854	310.5	0.000
11	14.93	33.540	5.93		307.8	10	14.93	33.537	5.92	24.880	308.1	0.030
30	14.58	33.522	6.10		302.0	20	14.82	33.542	6.00	24.905	305.7	0.061
58	12.97	33.442	6.21		276.3	30	14.58	33.522	6.10	24.944	302.0	0.092
77	12.21	33.467	5.62		260.5	50	13.46	33.460	6.17	25.127	284.6	0.151
91	11.66	33.497	5.61		248.4	75	12.28	33.464	5.67	25.363	262.1	0.219
106	11.03	33.534	4.98		234.8	100	11.28	33.518	5.26	25.591	240.4	0.283
134	9.75	33.689	4.17		202.4	125	10.12	33.637	4.38	25.888	212.2	0.340
158	9.36	33.773	3.76		190.0	150	9.46	33.746	3.88	26.082	193.8	0.391
187	8.59	33.952	3.15		165.2	200	8.38	33.984	2.98	26.440	159.8	0.481
220	8.14	34.007	2.78		154.6	250	7.74	34.046	2.39	26.583	146.2	0.560
291	7.27	34.088	1.89		136.6	300	7.19	34.097	1.79	26.702	134.9	0.632
391	6.54	34.173	1.01		120.7	400	6.46	34.180	0.94	26.866	119.3	0.765
492	5.79	34.251	0.48		105.8	500	5.74	34.257	0.47	27.019	104.8	0.883
592	5.31	34.321	0.38		95.0	600	5.26	34.326	0.38	27.132	94.1	0.989
722	4.68	34.400	0.38		82.2	700	4.78	34.388	0.38	27.237	84.2	1.085
1019	3.85	34.486	0.70		67.3	800	4.37	34.436	0.42	27.319	76.4	1.174
					1000	3.87	34.485	0.66	27.411	67.7	1.334	

97070		RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				97080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	Z	T	S	SIGMA T	DT	DD
30 55.0N	119 50.0W	05/27/75	1618 GMT	30 35.5N	120 31.0W	05/27/75	2046 GMT						
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES				
3737M	330	14KT	2	300 3 4	4116M	310	12KT	0	300 4 6				
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	F+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	Z	T	S	SIGMA T	DT	DD
30 16.0N	121 10.0W	05/28/75	0127 GMT	31 40.5N	116 46.5W	05/29/75	0947 GMT						
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES				
4021M	320	20KT	0	310 4 7	427M	300	4KT						
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	12.85	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								

100035			RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				100040		
LATITUDE 31 30.5N	LONGITUDE 117 07.0W	MO/DAY/YR 05/29/75	START TIME 0526 GMT	LATITUDE 31 21.0N	LONGITUDE 117 27.0W	MO/DAY/YR 05/29/75	START TIME 0235 GMT						
BOTTOM 112HM	WIND 340	SPEED 4Kt	WEATHER	DOMINANT WAVES	BOTTOM 184YM	WIND 250	SPEED 6Kt	WEATHER	DOMINANT WAVES				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	15.70	33.60	24.760	319.6	0.000	0	15.56	33.56	24.760	319.5	0.000		
10	14.75	33.59	24.960	300.5	0.031	10	14.73	33.56	24.941	302.2	0.031		
20	14.60	33.58	24.985	298.1	0.060	20	14.53	33.56	24.984	298.2	0.061		
30	14.36	33.58	25.036	293.3	0.090	30	14.30	33.56	25.033	293.5	0.090		
40	12.50	33.57	25.206	277.0	0.119	40	13.50	33.53	25.175	280.0	0.119		
50	12.45	33.51	25.368	261.7	0.146	50	13.00	33.51	25.260	271.9	0.147		
75	11.37	33.54	25.594	240.2	0.209	75	11.65	33.51	25.519	247.3	0.212		
100	10.34	33.62	25.838	216.9	0.267	100	10.44	33.63	25.829	217.8	0.271		
125	9.64	33.78	26.081	193.9	0.318	125	9.81	33.78	26.052	196.5	0.323		
150	9.31	33.89	26.221	180.6	0.366	150	9.41	33.96	26.259	177.0	0.371		
175	8.88	33.97	26.352	168.1	0.410	175	9.08	34.02	26.359	167.4	0.414		
200	8.53	34.05	26.469	157.0	0.452	200	8.94	34.08	26.428	160.9	0.456		
225	8.12	34.07	26.547	149.6	0.491	225	8.69	34.14	26.515	152.7	0.497		
250	8.02	34.12	26.601	144.5	0.529	250	8.18	34.13	26.585	146.0	0.535		
275	7.51	34.11	26.668	138.1	0.565	275	7.65	34.10	26.640	140.8	0.572		
300	7.14	34.15	26.751	130.2	0.600	300	7.18	34.12	26.722	133.0	0.607		
350	6.64	34.19	26.851	120.7	0.665	350	7.04	34.20	26.805	125.2	0.674		
400	6.17	34.20	26.921	114.2	0.727	400	6.78	34.22	26.856	120.3	0.739		
450	6.11	34.26	26.976	108.9	0.785	450	6.66	34.30	26.935	112.8	0.800		
500	5.97	34.32	27.041	102.8	0.841	500	6.19	34.30	26.997	106.9	0.858		
550	5.51	34.31	27.090	98.1	0.895	550	5.95	34.33	27.051	101.8	0.914		
600	5.47	34.35	27.126	94.6	0.947	600	5.48	34.33	27.109	96.2	0.967		
700	5.13	34.39	27.198	87.8	1.046	700	5.07	34.40	27.213	86.4	1.066		
800	4.71	34.41	27.262	81.8	1.139	800	4.69	34.42	27.273	80.8	1.158		
900	4.34	34.45	27.335	74.9	1.226	900	4.37	34.45	27.331	75.2	1.245		
1000	3.95	34.49	27.407	68.0	1.306	1000	4.06	34.48	27.388	69.8	1.326		

100050			RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				100060		
LATITUDE 31 00.5N	LONGITUDE 118 07.0W	MO/DAY/YR 05/28/75	START TIME 2200 GMT	LATITUDE 30 40.5N	LONGITUDE 118 47.5W	MO/DAY/YR 05/28/75	START TIME 1743 GMT						
BOTTOM 1856M	WIND 200	SPEED 3Kt	WEATHER	DOMINANT WAVES	BOTTOM 3164M	WIND 320	SPEED 6Kt	WEATHER	DOMINANT WAVES				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	14.78	33.54	24.915	304.7	0.000	0	15.65	33.72	24.863	309.7	0.000		
10	13.93	33.53	25.087	288.4	0.029	10	15.64	33.72	24.865	309.5	0.030		
20	12.66	33.53	25.143	283.1	0.058	20	15.62	33.72	24.869	309.1	0.061		
30	12.68	33.41	25.246	273.3	0.086	30	15.46	33.71	24.897	306.4	0.092		
40	12.06	33.62	25.333	265.0	0.113	40	15.37	33.71	24.917	304.5	0.123		
50	12.83	33.61	25.371	261.4	0.139	50	15.34	33.71	24.924	303.9	0.154		
75	11.80	33.59	25.553	244.0	0.203	75	14.88	33.69	25.009	295.8	0.229		
100	10.20	33.57	25.823	218.3	0.261	100	13.23	33.51	25.214	276.3	0.301		
125	9.37	33.78	26.125	189.7	0.313	125	11.50	33.57	25.593	240.2	0.366		
150	8.82	33.88	26.291	173.9	0.359	150	10.35	33.64	25.852	215.6	0.424		
175	8.38	33.94	26.406	163.0	0.402	175	9.45	33.76	26.096	192.4	0.476		
200	8.08	34.01	26.506	153.5	0.442	200	9.20	33.95	26.285	174.5	0.523		
225	7.67	34.03	26.582	146.3	0.480	225	8.93	34.01	26.375	165.9	0.566		
250	7.44	34.04	26.623	142.4	0.517	250	8.25	34.02	26.488	155.2	0.607		
275	7.20	34.06	26.672	137.7	0.553	275	7.96	34.03	26.539	150.3	0.647		
300	7.07	34.12	26.738	131.5	0.588	300	7.10	34.04	26.585	146.0	0.685		
350	6.93	34.19	26.812	124.5	0.655	350	7.19	34.08	26.690	136.1	0.758		
400	6.39	34.24	26.924	113.9	0.717	400	6.71	34.12	26.787	126.8	0.827		
450	5.90	34.27	27.010	105.6	0.775	450	6.31	34.23	26.926	113.6	0.890		
500	5.53	34.28	27.064	100.6	0.829	500	5.76	34.23	26.996	107.0	0.948		
550	5.19	34.30	27.120	95.2	0.882	550	5.54	34.31	27.086	98.4	1.003		
600	5.24	34.38	27.177	89.8	0.931	600	5.18	34.33	27.145	92.8	1.054		
700	4.83	34.40	27.241	83.8	1.025	700	4.81	34.38	27.227	85.1	1.150		
800	4.45	34.43	27.307	77.5	1.114	800	4.53	34.42	27.290	79.1	1.240		
900	4.14	34.47	27.372	71.4	1.197	900	4.24	34.45	27.345	73.9	1.325		
1000	3.84	34.50	27.427	66.2	1.274	1000	3.92	34.49	27.411	67.7	1.405		

RV DAVID STARR JORDAN			CALCOFI CRUISE 7505				100070								
LATITUDE 30 20.5N	LONGITUDE 119 27.5W	MO/DAY/YR 5/28/75	MESSENDER TIME 1305	GMT	BOTTOM 3926M	WIND 330	SPEED 15KT	WEATHER	DOMINANT WAVES						
Z	T	S	02	04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	15.63	33.71	5.77			310.0	0	15.63	33.71	5.77	24.859	310.0	0.000		
11	15.64	33.71	5.78			310.2	10	15.63	33.71	5.77	24.858	310.2	0.031		
29	15.62	33.75	5.81			306.9	20	15.63	33.73	5.79	24.873	308.7	0.062		
51	15.53	33.73	5.81			306.4	30	15.61	33.75	5.81	24.893	306.9	0.092		
16	15.44	33.72	5.77			305.3	50	15.55	33.73	5.81	24.896	305.5	0.154		
90	14.66		5.79				75	15.44	33.72	5.77	24.909	305.3	0.231		
105	13.21	33.53	5.56			276.3	100	13.77	33.56	5.65	25.148	282.6	0.305		
134	11.69	33.56	4.99			244.3	125	12.14	33.52	5.18	25.438	255.0	0.373		
158	10.04	33.65	4.39			209.9	150	10.55	33.61	4.58	25.793	221.2	0.433		
186	9.17		3.84				200	8.96	33.89	3.69	26.281	174.9	0.534		
221	8.16	34.00	3.51			164.1	250	8.36	34.08	3.05	26.523	151.9	0.618		
291	7.82		2.33				300								

100070			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			100080		
LATITUDE 30 20.5N	LONGITUDE 119 27.5W	MO/DAY/YR 05/28/75	START TIME 1149 GMT	LATITUDE 30 01.0N	LONGITUDE 120 07.0W	MO/DAY/YR 05/28/75	START TIME 0710 GMT				
BOTTUM 3926M	WIND 330	SPEED 15KT	WEATHER	DOMINANT WAVES	BOTTUM 4116M	WIND 340	SPEED 22KT	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.63	33.70	24.852	310.7	0.000	0	15.77	33.74	24.851	310.8	0.000
10	15.63	33.70	24.852	310.7	0.031	10	15.77	33.74	24.851	310.8	0.031
20	15.62	33.71	24.862	309.8	0.062	20	15.74	33.74	24.858	310.2	0.062
30	15.57	33.74	24.896	306.6	0.093	30	15.54	33.74	24.903	305.9	0.093
40	15.51	33.73	24.902	306.0	0.123	40	15.52	33.74	24.907	305.5	0.123
50	15.52	33.73	24.899	306.2	0.154	50	15.49	33.73	24.906	305.6	0.154
75	15.43	33.72	24.912	305.1	0.231	75	15.13	33.72	24.978	298.8	0.230
100	13.15	33.52	25.238	274.0	0.304	100	13.65	33.58	25.183	279.2	0.303
125	11.95	33.54	25.486	250.4	0.370	125	12.05	33.51	25.444	254.4	0.370
150	10.08	33.56	25.836	217.1	0.429	150	9.90	33.56	25.866	214.3	0.430
175	9.58	33.77	26.083	193.7	0.482	175	9.13	33.76	26.148	187.5	0.481
200	9.07	33.94	26.298	173.2	0.528	200	8.77	33.92	26.330	170.2	0.526
225	8.66	33.99	26.402	163.4	0.571	225	8.54	34.00	26.428	160.9	0.569
250	8.34	34.02	26.474	156.5	0.612	250	8.28	34.03	26.491	154.9	0.609
275	8.01	34.06	26.556	148.8	0.652	275	7.87	34.09	26.600	144.6	0.648
300	7.71	34.09	26.623	142.4	0.689	300	7.65	34.13	26.663	138.6	0.684
350	7.46	34.21	26.753	130.0	0.760	350	7.18	34.17	26.762	129.2	0.754
400	6.95	34.23	26.840	121.7	0.826	400	6.77	34.21	26.849	120.9	0.819
450	6.48	34.27	26.935	112.7	0.888	450	6.53	34.27	26.929	113.4	0.881
500	6.01	34.28	27.004	106.2	0.946	500	6.18	34.28	26.982	108.3	0.940
550	5.74	34.32	27.070	100.0	1.001	550	5.76	34.31	27.059	101.0	0.996
600	5.46	34.33	27.112	96.0	1.054	600	5.54	34.34	27.110	96.2	1.049
700	5.00	34.39	27.213	86.4	1.152	700	5.04	34.39	27.209	86.8	1.148
800	4.64	34.43	27.286	79.5	1.244	800	4.63	34.42	27.279	80.2	1.239
900	4.31	34.46	27.346	73.8	1.329	900	4.34	34.46	27.343	74.1	1.325
1000	3.97	34.48	27.397	68.9	1.409	1000	4.00	34.48	27.394	69.2	1.406

103030			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			103035		
LATITUDE 31 06.0N	LONGITUDE 116 24.5W	MO/DAY/YR 05/29/75	START TIME 1640 GMT	LATITUDE 30 55.5N	LONGITUDE 116 46.5W	MO/DAY/YR 05/29/75	START TIME 2033 GMT				
BOTTUM 65M	WIND 300	SPEED 3KT	WEATHER	DOMINANT WAVES	BOTTUM 1849M	WIND 320	SPEED 3KT	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.54	33.79	25.159	281.5	0.000	0	14.70	33.68	25.040	292.8	0.000
10	13.60	33.69	25.278	270.2	0.027	10	13.55	33.68	25.280	269.9	0.028
20	11.06	33.54	25.650	234.9	0.052	20	12.77	33.69	25.445	254.4	0.054
30	10.46	33.58	25.186	221.9	0.075	30	12.25	33.70	25.553	244.0	0.079
40	9.94	33.71	25.916	203.8	0.097	40	11.08	33.71	25.778	222.7	0.102
50	9.86	33.79	26.052	196.6	0.117	50	10.52	33.72	25.885	212.5	0.124
						75	9.58	33.83	26.130	189.2	0.175
						100	9.30	33.94	26.261	176.7	0.221
						125	8.71	33.96	26.371	166.3	0.264
						150	8.38	34.02	26.469	157.1	0.305
						175	8.08	34.06	26.545	149.8	0.344
						200	7.88	34.09	26.598	144.7	0.382
						225	8.00	34.16	26.635	141.2	0.419
						250	7.86	34.19	26.679	137.0	0.455
						275	7.75	34.20	26.704	134.8	0.490
						300	7.34	34.19	26.755	129.9	0.524
						350	7.05	34.23	26.827	123.1	0.590
						400	6.57	34.22	26.884	117.6	0.653
						450	6.33	34.26	26.947	111.6	0.713
						500	6.14	34.31	27.011	105.6	0.771
						550	5.85	34.34	27.072	99.8	0.826
						600	5.63	34.36	27.115	95.7	0.878
						700	5.05	34.39	27.208	86.9	0.977
						800	4.64	34.42	27.278	80.2	1.069
						900	4.29	34.45	27.340	74.4	1.155
						1000	3.91	34.49	27.411	67.6	1.235

RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			103035										
LATITUDE 30 55.5N	LONGITUDE 116 46.5W	MO/DAY/YR 5/29/75	MESSANGER TIME 2138	GMT	BOTTOM 1849M	WIND 320	SPEED 3KT	WEATHER	Dominant Waves							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	14.55	33.721	6.32			286.8	0	14.55	33.721	6.32	25.104	286.8	0.000			
12	13.42	33.718	6.18			264.6	10	13.61	33.718	6.20	25.295	268.6	0.027			
29	11.87	33.757	4.95			233.0	20	12.64	33.735	5.65	25.502	248.8	0.053			
58	10.27	33.763	3.71			205.2	30	11.79	33.758	4.88	25.683	231.7	0.077			
77	9.63	33.831	3.49			189.9	50	10.60	33.761	3.94	25.901	210.9	0.122			
91	9.56	33.880	3.47			185.2	75	9.67	33.824	3.49	26.108	191.3	0.172			
105	9.33	33.947	3.12			176.7	100	9.42	33.924	3.25	26.228	179.9	0.219			
133	8.68	33.987	3.05			163.9	125	8.86	33.982	3.07	26.364	167.0	0.263			
157	8.40	34.026	2.78			156.9	150	8.46	34.015	2.86	26.451	158.7	0.304			
185	8.06	34.071	2.46			148.7	200	8.05	34.107	2.24	26.586	145.9	0.382			
219	8.04	34.141	1.97			143.2	250	7.90	34.181	1.62	26.665	138.4	0.455			
290	7.65	34.211	1.30			132.5	300	7.56	34.214	1.24	26.741	131.2	0.525			
390	6.80	34.229	0.94			119.9	400	6.73	34.236	0.89	26.875	118.5	0.655			
495	6.18	34.307	0.51			106.3	500	6.15	34.309	0.49	27.009	105.7	0.774			
599	5.64	34.352	0.38			96.4	600	5.63	34.352	0.38	27.108	96.4	0.882			
732	4.98	34.403	0.44			85.2	700	5.13	34.392	0.42	27.200	87.7	0.982			
886	4.36	34.434	0.64			76.3	800	4.69	34.417	0.52	27.270	81.0	1.075			
1049	3.81	34.493	0.71			66.4	1000	3.96	34.472	0.68	27.392	69.4	1.243			

103040				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				103050					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME										
30 46.0N	117 04.5W	05/30/75	0006 GMT	30 26.0N	117 45.0W	05/30/75	0530 GMT										
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM		
1949M	300	6KT	2	290 4 7	2790M	260	4KT	330 3 7									
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD		
0	16.45	33.68	24.651	329.9	0.000	0	15.67	33.56	24.736	321.8	0.000	125	10.08	33.74	25.976	203.8	0.339
10	15.10	33.62	24.907	305.5	0.031	10	15.06	33.56	24.870	309.0	0.031	150	9.62	33.91	26.186	183.9	0.388
20	14.20	33.60	25.085	288.6	0.061	20	14.55	33.55	24.972	299.3	0.062	175	9.46	34.08	26.344	168.8	0.433
30	12.98	33.58	25.318	266.4	0.089	30	14.38	33.55	25.008	295.9	0.091	200	9.45	34.21	26.447	159.0	0.475
40	12.29	33.60	25.468	252.1	0.115	40	14.11	33.54	25.057	291.2	0.121	225	9.25	34.26	26.519	152.2	0.515
50	11.74	33.64	25.603	239.3	0.140	50	13.65	33.51	25.129	284.4	0.150	250	9.13	34.32	26.585	145.9	0.553
75	9.93	33.70	25.970	204.4	0.195	75	12.89	33.51	25.282	269.9	0.219	100	11.15	33.55	25.641	235.7	0.283
100	9.44	33.85	26.168	185.6	0.245	100	11.15	33.55	25.641	235.7	0.283	125	10.08	33.74	25.976	203.8	0.339
125	9.08	33.95	26.305	172.6	0.290	125	10.08	33.74	25.976	203.8	0.339	150	9.62	33.91	26.186	183.9	0.388
150	8.68	34.00	26.407	162.9	0.332	150	9.62	33.91	26.186	183.9	0.388	175	9.46	34.08	26.344	168.8	0.433
175	8.48	34.06	26.485	155.5	0.373	175	9.46	34.08	26.344	168.8	0.433	200	9.45	34.21	26.447	159.0	0.475
200	8.20	34.12	26.574	147.0	0.412	200	9.45	34.21	26.447	159.0	0.475	225	9.25	34.26	26.519	152.2	0.515
225	8.00	34.14	26.620	142.7	0.449	225	9.25	34.26	26.519	152.2	0.515	250	9.13	34.32	26.585	145.9	0.553
250	7.81	34.18	26.679	137.1	0.485	250	9.13	34.32	26.585	145.9	0.553	275	8.99	34.34	26.623	142.3	0.590
275	7.98	34.25	26.709	134.2	0.520	275	8.99	34.34	26.623	142.3	0.590	300	8.68	34.34	26.672	137.7	0.627
300	7.64	34.25	26.759	129.5	0.554	300	8.68	34.34	26.672	137.7	0.627	350	6.74	34.24	26.738	131.5	0.697
350	6.74	34.24	26.877	118.3	0.619	350	8.51	34.39	26.738	131.5	0.697	400	6.45	34.26	26.792	126.4	0.765
400	6.12	34.26	26.932	113.1	0.679	400	8.21	34.40	26.792	126.4	0.765	450	6.12	34.26	26.975	116.3	0.829
500	5.85	34.27	27.016	105.1	0.794	500	6.51	34.34	26.986	107.9	0.889	550	5.43	34.29	27.022	104.5	0.946
550	5.23	34.33	27.139	93.4	0.900	550	6.30	34.35	27.063	100.7	1.001	600	5.23	34.33	27.160	91.4	1.106
700	4.95	34.38	27.211	86.6	0.998	700	5.45	34.39	27.236	84.2	1.202	800	4.57	34.41	27.278	80.2	1.275
800	4.30	34.45	27.339	74.5	1.175	800	4.94	34.41	27.339	74.5	1.362	900	4.30	34.45	27.392	69.5	1.443
1000	3.99	34.48	27.399	68.8	1.256	1000	4.50	34.45	27.381	70.5	1.375						

103060				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				103070					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
30 06.0N	118 25.0W	05/30/75	1011 GMT	29 46.0N	119 05.0W	05/30/75	1504 GMT	29 46.0N	119 05.0W	05/30/75	1504 GMT						
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM		
2980M	210	3KT	2	240 3 7	3545M	230	4KT	2	240 3 7								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	DD		
0	15.41	33.60	24.824	313.4	0.000	0	15.96	33.74	24.808	314.9	0.000	125	10.08	33.74	25.976	203.8	0.339
10	15.11	33.60	24.890	307.1	0.031	10	15.74	33.71	24.835	312.3	0.031	150	9.62	33.81	25.972	203.8	0.339
20	15.04	33.60	24.905	305.7	0.061	20	15.68	33.71	24.848	311.1	0.062	175	9.46	33.82	24.897	306.5	0.155
30	14.99	33.59	24.908	305.4	0.092	30	15.73	33.75	24.868	309.2	0.093	200	9.45	34.05	26.196	182.9	0.546
40	14.78	33.57	24.938	302.5	0.122	40	15.76	33.78	24.884	307.7	0.124	225	9.20	34.05	26.349	168.4	0.591
50	14.15	33.53	25.041	292.7	0.152	50	15.84	33.82	24.897	306.5	0.155	250	8.54	34.03	26.452	158.6	0.633
75	12.44	33.50	25.362	262.2	0.222	75	15.82	33.83	24.909	305.3	0.232	100	15.48	33.78	24.947	301.7	0.308
100	11.56	33.54	25.559	243.5	0.286	100	15.48	33.78	24.947	301.7	0.308	125	12.85	33.61	25.367	261.7	0.380
125	10.40	33.66	25.859	214.9	0.344	125	12.85	33.61	25.367	261.7	0.380	150	11.05	33.61	25.706	229.5	0.442
150	9.89	33.84	26.086	193.4	0.395	150	11.05	33.61	25.706	229.5	0.442	175	9.85	33.71	25.991	202.4	0.497
175	9.62	33.98	26.240	178.7	0.443	175	9.85	33.71	25.991	202.4	0.497	200	9.46	33.89	26.196	182.9	0.546
200	9.34	34.08	26.364	167.0	0.487	200	9.46	33.89	26.196	182.9	0.546	225	8.90	33.97	26.349	168.4	0.591
225	8.80	34.09	26.458	158.0	0.529	225	8.90	33.97	26.349	168.4	0.591	250	8.54	34.03	26.452	158.6	0.633
250	8.53	34.13	26.531	151.1	0.568	250	8.54	34.03	26.452	158.6	0.633	275	8.19	34.06	26.529	151.3	0.673
300	7.80	34.14	26.649	139.9	0.644	300	7.89	34.10	26.605	144.1	0.711	350	7.42	34.17	26.728	132.5	0.783
400	6.84	34.25	26.871	118.8	0.778	400	6.70	34.19	26.843	121.5	0.849	450	6.79	34.22	26.926	113.7	0.911
450	6.79	34.32	26.933	112.9	0.839	450	6.61	34.28	26.926	113.7	0.911	500	6.13	34.28	26.980	108.5	0.970
500	5.74	34.31	26.989	107.7	0.898	500	6.26	34.29	26.980	108.5	0.970	550	5.74	34.31	27.041	102.7	1.026
550	5.43	34.31	27.062	100.8	0.953	550	6.09	34.34	27.090	98.0	1.081	600	5.89	34.37	27.090	98.0	1.081
600	5.31	34.29	27.098	97.3	1.006	600	5.89	34.47	27.278	80.2	1.275	700	5.31	34.40	27.185	89.1	1.182
700	4.85	34.36	27.207	87.0	1.106	700	5.31	34.40	27.278	80.2	1.275	800	4.50	34.40	27.278	80.2	1.275
800	4.50	34.40	27.277	80.3	1.197	800	4.71	34.43	27.339	74.5	1.362	900	4.25	34.45	27.392	69.5	1.443
900	4.25	34.45	27.344	74.0	1.283	900	4.45	34.47	27.392	69.5	1.443	1000	3.99	34.49	27.399	68.8	1.443
1000	3.99	34.49	27.403	68.4	1.363	1000	4.10	34.49	27.392	69.5	1.443						

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				103080							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENDER TIME	BOTTOM	WIND	SPEED	WEATHER	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
29 27.0N	119 43.5W	5/30/75	2012	3926M	030	4KT	2	29 27.0N	119 43.5W	5/30/75	1400	140	3	7	

<tbl_r cells="12" ix="

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	2	300 3 8	Z	T	S	SIGMA T	DT	DD	
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	26.517	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	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	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	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	1.039					
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	MESSANGER 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	02	SIGT	DT	DD	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	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

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	1500 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	1.084
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	24.992	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	8.11	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	34.07	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	6.11	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

110035				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				110040				
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME									
29 46.0N	116 00.0W	06/01/75	1200 GMT	29 36.0N	116 20.0W	06/01/75	1510 GMT									
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES							
1298M	330	21KT			2415M	330	22KT	2	120	5	8					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD					
0	15.30	33.64	24.879	308.2	0.000	0	15.25	33.68	24.921	304.2	0.000					
10	15.29	33.64	24.881	308.0	0.030	10	15.25	33.68	24.921	304.2	0.030					
20	14.72	33.57	24.951	301.3	0.061	20	15.05	33.66	24.949	301.5	0.060					
30	13.75	33.54	25.132	284.1	0.090	30	14.25	33.64	25.105	286.7	0.090					
40	12.93	33.51	25.274	270.6	0.118	40	12.25	33.64	25.507	248.5	0.117					
50	12.43	33.51	25.372	261.3	0.145	50	10.55	33.65	25.825	218.2	0.140					
75	10.68	33.58	25.748	225.5	0.206	75	9.97	33.81	26.049	196.9	0.192					
100	10.34	33.88	26.040	197.7	0.259	100	9.20	33.88	26.231	179.6	0.240					
125	10.22	34.02	26.170	185.4	0.308	125	9.00	33.96	26.325	170.7	0.284					
150	9.58	34.08	26.325	170.7	0.353	150	8.37	34.03	26.478	156.2	0.326					
175	9.33	34.14	26.412	162.4	0.396	175	8.46	34.14	26.550	149.3	0.365					
200	8.97	34.20	26.517	152.4	0.436	200	8.00	34.12	26.604	144.2	0.402					
225	8.53	34.18	26.571	147.4	0.474	225	7.47	34.08	26.650	139.8	0.438					
250	8.08	34.18	26.639	140.9	0.511	250	7.23	34.11	26.707	134.4	0.474					
275	7.92	34.20	26.679	137.1	0.547	275	7.22	34.18	26.764	129.0	0.508					
300	7.73	34.21	26.714	133.7	0.582	300	7.38	34.25	26.796	126.0	0.541					
350	7.58	34.33	26.830	122.7	0.649	350	6.96	34.28	26.878	118.1	0.604					
400	7.36	34.37	26.893	116.8	0.712	400	6.69	34.35	26.970	109.4	0.664					
450	7.01	34.39	26.958	110.6	0.772	450	6.49	34.38	27.021	104.7	0.721					
500	6.76	34.38	26.985	108.1	0.831	500	6.25	34.38	27.052	101.7	0.776					
550	6.29	34.39	27.055	101.4	0.887	550	5.88	34.39	27.107	96.4	0.829					
600	6.03	34.41	27.104	96.7	0.940	600	5.41	34.38	27.157	91.7	0.880					
700	5.32	34.42	27.200	87.7	1.041	700	4.99	34.42	27.238	84.0	0.975					
800	4.88	34.43	27.259	82.1	1.134	800	4.66	34.45	27.299	78.2	1.064					
900	4.49	34.45	27.318	76.4	1.223	900	4.25	34.47	27.360	72.5	1.148					
1000	4.05	34.48	27.389	69.7	1.305	1000	3.90	34.50	27.421	66.7	1.227					

110050				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				110050			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	LATITUDE	LONGITUDE	MO/DAY/YR	TIME	BOTTUM	WIND	SPEED	WEATHER	DIMINANT	WAVES		
29 16.5N	116 59.0W	06/01/75	2025 GMT	29 16.5N	116 59.0W	06/02/75	0229 GMT	3545M	310	12KT	2	290	5	5	
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES						
3545M	310	12KT	2	290 5 5	3545M	340	18KT	2	290 5 8						
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
2	15.33	33.698	5.89			304.6	0	15.33	33.698	5.89	24.917	304.6	0.000		
10	15.30	33.685	5.91			304.9	10	15.30	33.685	5.91	24.914	304.9	0.030		
29	14.12	33.715	5.97			278.6	20	14.84	33.698	5.94	25.022	294.6	0.060		
58	10.15	33.774	3.75			202.4	30	13.97	33.714	5.90	25.219	275.8	0.089		
77	9.63	33.906	3.26			184.4	50	11.18	33.735	4.41	25.778	222.7	0.139		
90	9.37	34.004	3.20			173.1	75	9.64	33.892	3.28	26.167	185.6	0.190		
105	9.19	34.041	2.76			167.6	100	9.24	34.035	2.91	26.344	168.9	0.235		
133	8.70	34.060	2.53			158.8	125	8.86	34.061	2.59	26.425	161.2	0.277		
157	8.04	34.035	2.61			151.1	150	8.22	34.043	2.58	26.509	153.2	0.317		
185	7.68	34.036	2.38			146.0	200	7.55	34.049	2.27	26.613	143.3	0.392		
218	7.44	34.070	2.14			140.2	250	7.32	34.117	1.78	26.699	135.2	0.464		
290	7.18	34.169	1.36			129.3	300	7.07	34.172	1.30	26.778	127.7	0.532		
390	6.12	34.198	0.98			113.7	400	6.07	34.209	0.92	26.940	112.4	0.657		
497	5.86	34.325	0.45			101.1	500	5.85	34.328	0.44	27.062	100.8	0.769		
602	5.54	34.395	0.40			92.1	600	5.54	34.394	0.40	27.152	92.2	0.873		
734	4.73	34.420	0.66			81.2	700	4.94	34.416	0.57	27.240	83.8	0.968		
886	4.21	34.467	0.86			72.3	800	4.47	34.441	0.76	27.313	77.0	1.057		
1048	3.76	34.499	0.94			65.5	1000	3.88	34.491	0.93	27.416	67.2	1.218		

110060				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				110060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	BOTTUM	WIND	SPEED	WEATHER	DIMINANT	WAVES		
28 56.5N	117 39.0W	06/02/75	0229 GMT	28 56.5N	117 39.0W	06/02/75	0229 GMT	3545M	340	18KT	2	340	5	8	
BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTUM	WIND	SPEED	WEATHER	DOMINANT WAVES						
3545M	340	18KT	2	340 5 8	3545M	340	18KT	2	340 5 8						
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	15.33	33.69	24.911	305.1	0.000	0	15.76	33.63	24.769	318.6	0.000				
10	15.25	33.68	24.921	304.2	0.030	10	15.74	33.68	24.774	318.2	0.031				
20	14.30	33.67	25.117	285.5	0.060	20	15.08	33.62	24.912	305.0	0.063				
30	13.00	33.65	25.368	261.6	0.087	30	15.00	33.60	24.914	304.9	0.093				
40	11.18	33.64	25.706	229.5	0.112	40	14.52	33.55	24.979	298.7	0.123				
50	10.28	33.70	25.911	210.0	0.134	50	13.87	33.51	25.084	286.7	0.153				
75	9.58	33.90	26.184	184.0	0.183	75	12.65	33.50	25.321	266.1	0.223				
100	9.24	34.03	26.341	169.1	0.228	100	11.13	33.53	25.629	236.8	0.246				
125	9.03	34.06	26.398	163.7	0.270	125	10.03	33.70	25.953	206.0	0.342				
150	8.33	34.02	26.476	156.3	0.311	150	9.66	33.92	26.187	183.8	0.391				
175</td															

110070

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

110080

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 36.5N	118 18.0W	06/01/2/75	0730 GMT	28 16.5N	118 57.0W	06/02/75	1200 GMT				
BOTTUM	WIND	SPEED	WEATHER	Dominant Waves							
3926M	320	17KT									
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.70	33.64	24.790	316.6	0.000	0	15.95	33.67	24.757	319.8	0.000
10	15.70	33.64	24.790	316.6	0.031	10	15.94	33.67	24.759	319.6	0.031
20	15.23	33.64	24.894	306.7	0.062	20	15.88	33.67	24.773	318.3	0.063
30	15.12	33.64	24.918	304.4	0.093	30	15.76	33.72	24.838	312.1	0.095
40	15.02	33.63	24.932	303.1	0.124	40	15.67	33.73	24.866	309.4	0.126
50	14.95	33.62	24.940	302.4	0.154	50	15.66	33.73	24.868	309.2	0.157
75	13.72	33.49	25.100	281.2	0.228	75	15.35	33.71	24.922	304.1	0.234
100	12.30	33.55	25.421	256.0	0.296	100	14.35	33.66	25.099	287.2	0.309
125	11.23	33.66	25.712	228.9	0.358	125	12.78	33.63	25.396	259.0	0.378
150	10.44	33.76	25.930	208.2	0.413	150	11.54	33.64	25.640	235.8	0.441
175	10.01	33.98	26.175	185.0	0.463	175	10.38	33.74	25.925	208.7	0.497
200	9.49	34.08	26.339	169.3	0.508	200	9.17	33.82	26.090	192.9	0.548
225	9.33	34.16	26.428	160.9	0.551	225	9.07	33.95	26.306	172.5	0.595
250	9.19	34.22	26.497	154.3	0.591	250	8.81	34.08	26.449	158.9	0.638
275	8.77	34.24	26.580	146.4	0.630	275	8.53	34.07	26.485	155.5	0.678
300	8.17	34.24	26.672	137.7	0.667	300	8.28	34.15	26.585	145.9	0.717
350	7.85	34.28	26.752	130.2	0.737	350	7.67	34.19	26.707	134.4	0.790
400	7.37	34.30	26.837	122.1	0.803	400	7.44	34.25	26.788	126.8	0.858
450	6.75	34.30	26.923	113.9	0.865	450	7.05	34.26	26.850	120.8	0.924
500	6.38	34.30	26.972	109.3	0.925	500	6.64	34.33	26.961	110.3	0.985
550	5.95	34.32	27.043	102.5	0.981	550	6.22	34.35	27.032	103.5	1.042
600	5.55	34.35	27.117	95.6	1.034	600	5.88	34.36	27.084	98.7	1.097
700	5.00	34.38	27.206	87.1	1.134	700	5.27	34.40	27.190	88.6	1.198
800	4.64	34.42	27.278	80.2	1.225	800	4.78	34.43	27.270	81.0	1.292
900	4.33	34.46	27.344	74.0	1.311	900	4.45	34.46	27.331	75.3	1.379
1000	4.01	34.48	27.393	69.3	1.392	1000	4.10	34.49	27.392	69.5	1.460

113030

RV DAVID STARR JORDAN

CALCOFI CRUISE 7505

113035

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
29 22.0N	115 18.0W	06/01/3/75	1857 GMT	29 11.0N	115 38.0W	06/03/75	1503 GMT				
BOTTUM	WIND	SPEED	WEATHER	Dominant Waves							
60M	300	15KT	2	310 4 3							
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.44	33.80	25.395	259.0	0.000	0	14.92	33.60	24.931	303.2	0.000
10	12.28	33.79	25.420	256.7	0.025	10	14.92	33.60	24.931	303.2	0.030
20	12.89	33.77	25.482	250.7	0.051	20	14.92	33.60	24.931	303.2	0.060
30	11.50	33.78	25.756	224.8	0.075	30	14.92	33.60	24.931	303.2	0.091
40	11.33	33.81	25.810	219.6	0.097	40	14.89	33.59	24.930	303.3	0.121
50	11.00	33.87	25.916	209.5	0.118	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		

113040			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			113050		
LATITUDE 29 02.0N	LONGITUDE 115 56.0W	MO/DAY/YR 06/03/75	START TIME 1225 GMT			LATITUDE 28 41.5N	LONGITUDE 116 37.0W	MO/DAY/YR 06/03/75	START TIME 0708 GMT		
BOTTOM 1856M	WIND SPEED 330 12KT	WEATHER	DOMINANT WAVES			BOTTOM 3737M	WIND SPEED 310 17KT	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.67	33.65	24.805	315.3	0.000	0	15.54	33.62	24.811	314.7	0.000
10	15.61	33.65	24.818	314.0	0.031	10	15.49	33.61	24.814	314.4	0.031
20	15.55	33.65	24.831	312.7	0.062	20	15.47	33.61	24.818	313.9	0.062
30	15.13	33.64	24.916	304.6	0.093	30	15.28	33.61	24.860	309.9	0.094
40	14.93	33.62	24.944	302.0	0.124	40	15.04	33.60	24.905	305.7	0.125
50	14.81	33.61	24.963	300.2	0.154	50	14.70	33.59	24.971	299.4	0.155
75	13.90	33.54	25.101	287.0	0.228	75	14.05	33.48	25.024	294.4	0.230
100	12.55	33.53	25.364	262.0	0.297	100	13.22	33.48	25.193	278.3	0.302
125	10.55	33.64	25.817	218.9	0.358	125	12.05	33.56	25.483	250.7	0.369
150	9.98	33.78	26.024	199.3	0.411	150	10.74	33.81	25.916	209.5	0.427
175	9.29	33.88	26.216	181.0	0.459	175	10.46	33.95	26.074	194.5	0.478
200	8.69	33.99	26.397	163.8	0.503	200	10.04	34.09	26.255	177.3	0.526
225	8.34	34.05	26.498	154.2	0.544	225	9.49	34.14	26.386	164.9	0.570
250	8.18	34.12	26.577	146.7	0.583	250	8.87	34.11	26.463	157.6	0.611
275	8.13	34.16	26.616	143.0	0.620	275	8.21	34.08	26.541	150.2	0.651
300	7.82	34.19	26.686	136.5	0.656	300	7.82	34.06	26.584	146.1	0.689
350	7.89	34.30	26.761	129.3	0.725	350	7.49	34.18	26.726	132.7	0.762
400	7.38	34.33	26.859	120.0	0.791	400	6.84	34.22	26.848	121.1	0.828
450	6.94	34.33	26.921	114.2	0.853	450	6.53	34.25	26.913	114.9	0.890
500	6.11	34.28	26.991	107.4	0.912	500	6.33	34.32	26.994	107.1	0.949
550	5.98	34.32	27.040	102.9	0.968	550	5.90	34.33	27.057	101.2	1.005
600	5.43	34.34	27.123	94.9	1.021	600	5.55	34.35	27.117	95.6	1.058
700	5.24	34.41	27.201	87.5	1.120	700	5.01	34.38	27.204	87.2	1.157
800	4.82	34.44	27.274	80.7	1.213	800	4.70	34.42	27.271	80.9	1.249
900	4.42	34.46	27.334	75.0	1.299	900	4.30	34.46	27.347	73.7	1.335
1000	3.94	34.50	27.416	67.1	1.379	1000	4.00	34.49	27.402	68.5	1.415

113060			RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			113070		
LATITUDE 28 25.0N	LONGITUDE 117 17.0W	MO/DAY/YR 06/03/75	START TIME 0234 GMT			LATITUDE 28 02.0N	LONGITUDE 117 55.0W	MO/DAY/YR 06/02/75	START TIME 2120 GMT		
BOTTOM 3641M	WIND SPEED 310 13KT	WEATHER	DOMINANT WAVES			BOTTOM 3545M	WIND SPEED 320 12KT	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.80	33.65	24.776	318.0	0.000	0	16.28	33.66	24.674	327.7	0.000
10	15.80	33.65	24.776	318.0	0.031	10	16.26	33.66	24.679	327.2	0.032
20	15.77	33.65	24.782	317.4	0.063	20	16.19	33.66	24.695	325.7	0.065
30	15.50	33.61	24.812	314.6	0.095	30	15.65	33.63	24.794	316.3	0.097
40	15.01	33.57	24.889	307.3	0.126	40	15.18	33.57	24.852	310.8	0.129
50	14.69	33.55	24.942	302.2	0.157	50	14.82	33.55	24.914	304.8	0.160
75	14.02	33.50	25.045	292.4	0.231	75	14.50	33.52	24.960	300.5	0.236
100	13.40	33.46	25.142	283.2	0.304	100	13.64	33.50	25.124	284.9	0.309
125	12.10	33.53	25.450	253.8	0.372	125	11.87	33.54	25.501	249.0	0.377
150	11.09	33.70	25.768	223.6	0.432	150	10.76	33.60	25.749	225.4	0.437
175	10.69	33.94	26.026	199.1	0.486	175	9.97	33.78	26.026	199.1	0.491
200	10.09	33.97	26.153	187.0	0.535	200	9.25	33.90	26.238	178.9	0.539
225	10.02	34.08	26.251	177.7	0.582	225	8.79	34.00	26.389	164.6	0.583
250	9.46	34.16	26.407	162.9	0.626	250	8.30	34.01	26.473	156.7	0.624
275	9.47	34.27	26.491	154.9	0.667	275	7.92	34.03	26.545	149.8	0.664
300	9.15	34.29	26.559	148.5	0.706	300	7.48	34.06	26.633	141.5	0.701
350	8.18	34.26	26.687	136.3	0.780	350	7.09	34.11	26.727	132.5	0.772
400	7.80	34.32	26.790	126.5	0.849	400	6.46	34.17	26.859	120.0	0.838
450	7.15	34.32	26.883	117.6	0.914	450	6.36	34.23	26.920	114.2	0.900
500	6.64	34.32	26.954	111.0	0.975	500	6.14	34.28	26.988	107.8	0.959
550	6.01	34.33	27.044	102.5	1.032	550	5.98	34.32	27.040	102.9	1.015
600	5.83	34.36	27.090	98.1	1.086	600	5.70	34.35	27.098	97.3	1.069
700	5.44	34.38	27.154	92.0	1.189	700	5.16	34.39	27.195	88.1	1.169
800	5.02	34.41	27.227	85.1	1.286	800	4.81	34.42	27.259	82.1	1.263
900	4.60	34.44	27.298	78.3	1.377	900	4.37	34.44	27.324	76.0	1.351
1000	4.16	34.48	27.378	70.8	1.461	1000	4.05	34.48	27.389	69.7	1.433

RV DAVID STARR JORDAN			CALCOFI CRUISE 7505			113070									
LATITUDE 28 02.0N	LONGITUDE 117 55.0W	MO/DAY/YR 6/ 2/75	MESSENDER TIME 2207	GMT	BOTTOM 3545M	WIND 320	SPEED 12KT	WEATHER	DOMINANT WAVES						
Z	T	S	02	PO4	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
3	16.21	33.679	5.78			326.9	0	16.31	33.679	5.78	24.682	326.9	0.000		
13	16.28	33.682	5.73			326.1	10	16.28	33.682	5.73	24.688	326.3	0.032		
32	15.82	33.655	5.89			318.1	20	16.15	33.677	5.77	24.716	323.7	0.065		
60	14.86	33.571	5.99			304.1	30	15.88	33.660	5.86	24.764	319.2	0.097		
77	14.67	33.561	5.98			300.9	50	15.17	33.600	5.97	24.874	308.6	0.160		
92	14.11	33.512	6.13			293.3	75	14.69	33.564	5.98	24.951	301.3	0.237		
105	13.57	33.529	5.62			281.4	100	13.78	33.520	5.84	25.108	286.4	0.311		
135	11.84	33.561	4.96			246.9	125	12.45	33.545	5.15	25.393	259.3	0.380		
155	10.68	33.642	4.39			220.9	150	10.94	33.618	4.53	25.730	227.2	0.441		
184	10.10	33.863	3.52			195.1	200	9.58	33.923	3.37	26.201	182.5	0.546		
215	9.09	33.958	3.32			172.2	250	8.39	34.018	3.01	26.464	157.5	0.633		
282	7.98	34.049	2.67			149.2	300	7.75	34.069	2.42	26.600	144.6	0.711		
381	6.97	34.152	1.35			127.8	400	6.81	34.176	1.14	26.815	124.1	0.850		
482	6.28	34.271	0.47			110.2	500	6.18	34.289	0.43	26.988	107.7	0.973		
584	5.78	34.355	0.28			97.9	600	5.69	34.364	0.28	27.110	96.2	1.082		
715	5.08	34.407	0.29			86.0	700	5.15	34.404	0.28	27.206	87.1</td			

1130H0

RV DAV ID STARR JORDAN

CALCOFI CRUISE 7505

117025

LATITUDE	LONGITUDE	MO/D/Y/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
27 42.0N	118 33.0W	06/02/75	1643 GMT	28 58.0N	114 37.0W	06/04/75	0005 GMT				
BOTTUM 3926M	WIND 330	SPEED 12KT	WEATHHR 2	DOMINANT 330	WAVES 5 7	BOTTUM 54M	WIND 290	SPEED 12KT	WEATHER 1	DOMINANT 300	WAVES 5 5
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.27	33.69	24.699	325.2	0.000	0	14.34	33.72	25.148	282.6	0.000
10	16.26	33.69	24.702	325.0	0.032	10	13.90	33.70	25.224	275.3	0.027
20	15.70	33.68	24.821	313.7	0.064	20	13.34	33.69	25.331	265.2	0.054
30	15.31	33.66	24.892	306.9	0.095	30	12.74	33.70	25.458	253.1	0.080
40	15.27	33.65	24.893	306.8	0.126	40	12.69	33.72	25.483	250.7	0.106
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						

117030

RV DAV ID STARR JORDAN

CALCOFI CRUISE 7505

117035

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 48.0N	114 56.5W	06/04/75	0320 GMT	28 38.0N	115 16.0W	06/04/75	0532 GMT				
BOTTUM 103M	WIND 280	SPEED 16KT	WEATHHR	DOMINANT	WAVES	BOTTUM 196M	WIND 290	SPEED 9KT	WEATHER	DOMINANT	WAVES
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.23	33.77	24.994	297.2	0.000	0	14.57	33.56	24.976	299.0	0.000
10	15.23	33.77	24.994	297.2	0.029	10	14.55	33.56	24.980	298.6	0.029
20	13.74	33.77	25.311	267.0	0.057	20	14.22	33.56	25.050	291.9	0.059
30	12.18	33.76	25.613	238.4	0.083	30	14.07	33.55	25.073	289.7	0.088
40	11.09	33.72	25.784	222.1	0.106	40	13.61	33.52	25.145	282.8	0.117
50	10.76	33.79	25.897	211.3	0.128	50	12.95	33.45	25.224	275.4	0.145
75	9.75	34.02	26.249	177.8	0.177	75	11.93	33.53	25.482	250.8	0.211
90	9.75	34.12	26.327	170.4	0.203	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

117040				RV DAVID STARR JORDAN				CALCOF I CRUISE 7505				117050					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME										
28 28.0N	115 35.5W	06/04/75	1005 GMT	28 08.0N	116 15.0W	06/04/75	1514 GMT										
BOTTOM	WIND SPEED	WEATHER	Dominant Waves	BOTTOM	WIND SPEED	WEATHER	Dominant Waves										
1021M	260 6KT			4116M	320 8KT	1	310 4 6										
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
6	15.35	33.59	24.830	312.9	0.000	0	15.26	33.58	24.842	311.7	0.000						
10	15.31	33.58	24.831	312.8	0.031	10	15.26	33.58	24.842	311.7	0.031						
20	15.08	33.57	24.873	308.7	0.062	20	15.26	33.58	24.842	311.7	0.062						
30	14.86	33.55	24.906	305.6	0.093	30	15.01	33.57	24.889	307.3	0.093						
40	14.55	33.54	24.965	300.0	0.123	40	14.90	33.56	24.905	305.7	0.124						
50	14.29	33.50	24.989	297.7	0.153	50	14.61	33.53	24.944	302.0	0.154						
75	12.70	33.47	25.288	269.2	0.224	75	13.55	33.44	25.096	287.6	0.228						
100	11.38	33.52	25.576	241.8	0.289	100	12.20	33.46	25.377	260.8	0.297						
125	10.32	33.60	25.826	218.1	0.347	125	10.82	33.59	25.731	227.1	0.359						
150	9.77	33.94	26.184	184.1	0.398	150	9.79	33.85	26.110	191.1	0.412						
175	9.77	34.16	26.355	167.8	0.443	175	10.18	34.17	26.294	173.6	0.459						
200	9.06	34.17	26.479	156.0	0.484	200	10.34	34.30	26.367	166.7	0.502						
225	9.28	34.26	26.514	152.7	0.524	225	10.12	34.36	26.452	158.6	0.544						
250	9.11	34.33	26.596	144.9	0.562	250	10.07	34.41	26.499	154.1	0.584						
275	9.24	34.43	26.653	139.5	0.599	275	9.68	34.42	26.573	147.1	0.623						
300	9.04	34.43	26.686	136.4	0.635	300	9.22	34.38	26.618	142.9	0.661						
350	8.28	34.42	26.797	125.9	0.704	350	8.68	34.40	26.719	133.2	0.733						
400	7.77	34.40	26.851	120.1	0.768	400	8.03	34.38	26.803	125.3	0.801						
450	7.17	34.39	26.936	112.7	0.830	450	8.88	34.31	26.913	114.9	0.865						
500	6.86	34.39	26.979	108.6	0.889	500	6.53	34.31	26.960	110.4	0.925						
550	6.40	34.38	27.032	103.5	0.946	550	6.16	34.33	27.024	104.3	0.982						
600	5.95	34.40	27.106	96.5	1.000	600	5.85	34.35	27.080	99.1	1.037						
700	5.42	34.41	27.140	89.6	1.102	700	5.10	34.37	27.186	89.0	1.139						
800	4.95	34.42	27.243	83.6	1.197	800	4.85	34.41	27.247	83.3	1.233						
900	4.42	34.45	27.326	75.7	1.286	900	4.36	34.43	27.317	76.6	1.322						
						1000	4.04	34.46	27.374	71.1	1.405						

RV DAVID STARR JORDAN				CALCOF I CRUISE 7505				117050								
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER									
28 08.0N	116 15.0W	6/4/75	1612	4116M	320	8KT	1									
Z	T	S	D2	P04	S103	N02	N03	DT	Z	T	S	D2	SIGT	DT	DD	
2	15.30	33.593	5.86					311.6	0	15.30	33.593	5.86	24.843	311.6	0.000	
12	15.29	33.579	5.86					312.4	10	15.29	33.583	5.86	24.836	312.3	0.031	
30	14.86	33.568	6.03					304.3	20	15.13	33.576	5.93	24.865	309.5	0.062	
58	14.16	33.501	5.94					295.1	30	14.86	33.568	6.03	24.920	304.3	0.093	
77	13.39	33.465	5.86					282.6	50	14.38	33.524	5.96	24.985	298.0	0.153	
92	12.52	33.450	5.89					267.4	75	13.48	33.469	5.86	25.130	284.2	0.226	
105	11.91	33.509	5.07					252.0	100	12.14	33.483	5.41	25.404	258.2	0.295	
133	10.13	33.682	4.12					208.9	125	10.59	33.627	4.32	25.799	220.6	0.355	
156	9.84	33.844	3.53					192.3	150	9.91	33.814	3.70	26.061	195.7	0.408	
185	10.17	34.169	1.94					173.6	200	10.21	34.256	1.51	26.353	168.0	0.501	
218	10.28	34.335	1.21					163.1	250	10.09	34.411	0.83	26.496	154.4	0.584	
290	9.63	34.437	0.63					145.1	300	9.47	34.432	0.62	26.616	143.0	0.661	
390	7.97	34.345	0.62					127.0	400	7.81	34.338	0.60	26.802	125.4	0.802	
492	6.63	34.305	0.48					112.0	500	6.56	34.308	0.46	26.953	111.0	0.927	
596	5.94	34.351	0.30					100.1	600	5.91	34.353	0.30	27.074	99.6	1.040	
728	5.04	34.401	0.34					86.0	700	5.21	34.391	0.33	27.189	88.7	1.142	
877	4.47	34.436	0.46					77.3	800	4.73	34.419	0.38	27.267	81.3	1.236	
1038	3.90	34.481	0.69					68.2	1000	4.03	34.469	0.62	27.383	70.3	1.405	

117060				RV DAVID STARR JORDAN				CALCOF I CRUISE 7505				117070					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME										
27 48.0N	116 53.0W	06/04/75	1945 GMT	27 27.5N	117 33.0W	06/05/75	0034 GMT										
BOTTOM	WIND SPEED	WEATHER	Dominant Waves	BOTTOM	WIND SPEED	WEATHER	Dominant Waves										
3832M	330 6KT	1	310 4 6	3926M	330 4KT	1	300 4 5										
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.68	33.60	24.764	319.1	0.000	0	16.94	33.81	24.636	331.3	0.000						
10	15.49	33.60	24.806	315.1	0.031	10	16.66	33.81	24.701	325.1	0.032						
20	15.37	33.60	24.833	312.6	0.063	20	16.63	33.81	24.708	324.4	0.065						
30	15.30	33.59	24.841	311.8	0.094	30	16.50	33.79	24.723	323.0	0.097						
40	15.01	33.60	24.912	305.1	0.125	40	16.08	33.75	24.789	316.7	0.129						
50	15.00	33.61	24.921	304.1	0.155	50	15.88	33.74	24.827	313.2	0.161						
75	14.39	33.54	24.998	296.8	0.231	75	15.74	33.73	24.850	310.9	0.240						
100	13.32	33.48	25.173	280.2	0.304	100	14.72	33.62	24.990	297.6	0.316						
125	12.03	33.53	25.463	252.6	0.371	125	13.23	33.59	25.276	270.4	0.388						
150	11.02	33.66	25.750	225.3	0.432	150	11.63	33.58	25.577	241.8	0.453						
175	10.15	33.76	25.980	203.5	0.486	175	10.35	33.66	25.868	214.1	0.511						
200	9.16	33.83	26.198	182.7	0.535	200	9.48	33.83	26.146	187.7	0.562						
225	9.53	34.07	26.325	170.7	0.581	225	9.15	33.92	26.270	175.9	0.608						
250	9.26	34.15	26.432	160.6	0.623	250	8.79	34.01	26.397	163.8	0.652						
275	8.62	34.14	26.525	151.6	0.663	275	8.37	34.03	26.478	156.2	0.693						
300	8.70	34.21	26.568	147.6	0.702	300	7.80	34.03	26.563	148.1	0.733						
350	8.08	34.27	26.710	134.2	0.776	350	7.19	34.10	26.705	134.6	0.806						
400	7.63	34.28	26.784	127.1	0.844	400	6.68	34.16	26.822	123.5	0.873						
450	7.12	34.29	26.864	119.5	0.909	450	6.54	34.21	26.880	118.0	0.937						
500	6.66	34.31	26.943	112.0	0.971	500	6.26	34.28	26.972	109.3	0.997						
550	6.32	34.33	27.004	106.3	1.029	550	5.78	34.30	27.049	102.0	1.053						
600	5.83	34.34	27.074	99.6	1.084	600	5.74	34.36	27.101	97.0	1.107						
700	5.16	34.37	27.179	89.6	1.187	700	5.18	34.40	27.200	87.6	1.207						
800	4.70	34.42	27.271	80.9	1.281	800	4.75	34.42	27.266	81.4	1.300						
900	4.41	34.45	27.327	75.6	1.368	900	4.41	34.45	27.327	75.6	1.387						
1000	4.06	34.47	27.380	70.6	1.450	1000	4.03	34.									

117080

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
27 08.0N	118 10.0W	06/05/75	0454 GMT		28 18.5N	115 23.5W	06/04/75	0756 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.47	33.66	24.631	331.8	0.000	0	14.96	33.56	24.892	306.9	0.000
10	16.23	33.66	24.686	326.6	0.032	10	14.90	33.55	24.897	306.4	0.030
20	16.20	33.66	24.693	325.9	0.065	20	14.25	33.50	24.997	296.9	0.060
30	15.81	33.65	24.713	318.2	0.097	30	13.98	33.53	25.077	289.4	0.090
40	15.58	33.64	24.817	314.1	0.129	40	13.40	33.55	25.109	286.3	0.119
50	15.33	33.62	24.857	310.3	0.160	50	13.60	33.51	25.139	283.4	0.147
75	14.88	33.56	24.909	305.3	0.238	75	11.36	33.47	25.541	245.2	0.214
100	14.34	33.55	25.017	295.1	0.314	100	9.78	33.77	26.050	196.8	0.269
125	12.13	33.52	25.437	255.1	0.383	125	9.78	34.11	26.315	171.6	0.316
150	11.73	33.66	25.620	237.7	0.445	150	9.62	34.21	26.419	161.7	0.358
175	10.40	33.70	25.890	212.0	0.503	175	9.55	34.24	26.454	158.4	0.399
200	9.57	33.82	26.124	189.8	0.554	200	9.51	34.31	26.516	152.6	0.439
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						

119033

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
28 19.0N	114 53.0W	06/06/75	1109 GMT		28 13.0N	114 34.0W	06/06/75	1314 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.13	33.80	25.039	292.9	0.000	0	15.23	33.81	25.025	294.3	0.000
10	15.13	33.80	25.039	292.9	0.029	10	15.23	33.81	25.025	294.3	0.029
20	14.68	33.77	25.114	285.8	0.058	20	15.01	33.77	25.042	292.6	0.058
30	12.37	33.62	25.468	252.1	0.085	30	12.47	33.75	25.549	244.4	0.085
40	11.49	33.62	25.634	236.4	0.109	40	11.86	33.75	25.666	233.3	0.109
50	11.23	33.72	25.759	224.5	0.132	50	10.71	33.77	25.890	212.0	0.132
75	10.03	33.85	26.070	194.9	0.185	75	10.21	33.92	26.094	192.6	0.183
96	9.71	33.98	26.225	180.2	0.225	86	10.13	33.95	26.131	189.1	0.204

120035

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
28 03.0N	114 54.0W	06/06/75	0811 GMT		27 43.0N	115 33.0W	06/06/75	0300 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.88	33.67	24.994	297.3	0.000	0	15.52	33.68	24.861	309.9	0.000
10	14.62	33.73	25.096	287.5	0.029	10	15.41	33.67	24.878	308.3	0.030
20	14.30	33.70	25.141	283.3	0.057	20	14.42	33.63	25.061	290.8	0.060
30	13.26	33.66	25.324	265.8	0.085	30	14.03	33.59	25.112	286.0	0.084
40	12.41	33.64	25.476	251.4	0.111	40	13.15	33.56	25.269	271.1	0.117
50	11.36	33.64	25.673	232.6	0.135	50	12.00	33.52	25.461	252.8	0.144
61	10.50	33.69	25.865	214.4	0.160	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	

120050				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				120060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME								
27 33.0N	115 52.5W	06/16/75	0000 GMT	27 13.0N	116 30.5W	06/05/75	1923 GMT								
BOTTOM				WIND SPEED WEATHER DOMINANT WAVES				BOTTOM				WEATHER DOMINANT WAVES			
3926M	340	10Kt	1	260	4	6		3926M	260	8Kt	2	260	3	4	
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD		
0	15.82	33.56	24.702	325.0	0.000			0	15.61	33.65	24.818	314.0	0.000		
10	15.42	33.56	24.791	316.5	0.032			10	15.26	33.65	24.895	306.6	0.031		
20	14.93	33.56	24.898	306.3	0.063			20	14.86	33.65	24.982	298.3	0.061		
30	14.58	33.56	24.973	299.2	0.093			30	14.63	33.67	25.047	292.1	0.090		
40	14.38	33.58	25.031	293.7	0.123			40	14.51	33.70	25.096	287.5	0.120		
50	14.21	33.59	25.075	289.5	0.152			50	13.50	33.67	25.283	269.7	0.148		
75	12.08	33.45	25.392	259.4	0.221			75	11.35	33.77	25.775	222.9	0.209		
100	10.77	33.99	26.051	196.7	0.279			100	10.29	34.01	26.150	187.3	0.261		
125	10.86	34.19	26.190	183.5	0.327			125	9.98	34.10	26.273	175.6	0.307		
150	10.47	34.30	26.344	168.8	0.372			150	9.90	34.17	26.341	169.1	0.351		
175	10.57	34.42	26.420	161.6	0.414			175	9.36	34.18	26.439	159.9	0.393		
200	10.35	34.44	26.474	156.5	0.455			200	9.41	34.26	26.493	154.7	0.433		
225	10.12	34.46	26.530	151.2	0.494			225	9.50	34.38	26.572	147.2	0.472		
250	9.92	34.45	26.556	148.7	0.533			250	9.24	34.41	26.638	141.0	0.509		
275	9.67	34.42	26.575	147.0	0.571			275	8.65	34.37	26.700	135.0	0.545		
300	8.87	34.36	26.658	139.0	0.609			300	8.48	34.33	26.696	135.5	0.580		
350	8.69	34.42	26.733	131.9	0.680			350	7.75	34.31	26.790	126.6	0.649		
400	8.01	34.41	26.830	122.8	0.747			400	7.27	34.33	26.875	118.5	0.713		
450	7.78	34.43	26.879	118.0	0.811			450	6.97	34.38	26.956	110.8	0.774		
500	7.29	34.40	26.927	113.6	0.872			500	6.69	34.38	26.994	107.2	0.832		
550	6.84	34.41	26.997	106.9	0.932			550	6.35	34.39	27.047	102.2	0.888		
600	6.24	34.40	27.069	100.0	0.988			600	5.88	34.37	27.092	97.9	0.942		
700	5.46	34.38	27.151	92.3	1.092			700	5.38	34.41	27.185	89.1	1.044		
800	4.99	34.41	27.230	84.8	1.190			800	4.88	34.43	27.259	82.1	1.138		
900	4.56	34.45	27.311	71.2	1.280			900	4.47	34.44	27.313	77.0	1.227		
1000	4.23	34.47	27.362	72.3	1.364			1000	4.12	34.47	27.374	71.2	1.310		

RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				120070								
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	ROT TUM	WIND	SPEED	WEATHER	DOMINANT WAVES								
26 55.0N	117 09.0W	06/ 5/75	1456	4021M	340	5KT	2	340	3	4						
Z	T	S	O2	PD4	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	16.45	33.741	5.71					325.5	0	16.45	33.741	5.71	24.697	325.5	0.000	
11	16.44	33.741	5.72					325.2	10	16.44	33.742	5.71	24.699	325.3	0.032	
31	16.25	33.772	5.82					318.8	20	16.36	33.752	5.76	24.725	322.8	0.065	
58	16.10	33.842	5.78					310.5	30	16.26	33.771	5.81	24.763	319.2	0.097	
77	15.84	33.787	5.82					308.9	50	16.15	33.829	5.79	24.833	312.5	0.160	
91	15.23	33.677	6.09					304.0	75	15.88	33.798	5.81	24.869	309.1	0.238	
105	14.79	33.696	5.65					293.5	100	14.96	33.685	5.84	24.987	297.9	0.315	
134	12.43	33.640	5.03					251.8	125	13.23	33.653	5.22	25.323	266.0	0.386	
158	10.90	33.704	4.20					220.0	150	11.33	33.672	4.48	25.701	230.0	0.449	
187	10.30	33.934	3.35					193.1	200	10.08	34.021	2.95	26.194	183.1	0.554	
219	9.82	34.131	2.40					170.7	250	9.62	34.271	1.61	26.466	157.3	0.642	
292	9.42	34.383	0.84					145.8	300	9.31	34.385	0.82	26.606	144.0	0.720	
392	7.96	34.323	0.68					128.5	400	7.86	34.322	0.67	26.782	127.3	0.862	
498	6.89	34.333	0.66					113.3	500	6.87	34.334	0.65	26.932	113.0	0.989	
602	6.16	34.317	0.31					100.8	600	6.17	34.376	0.31	27.059	101.0	1.104	
735	5.25	34.414	0.37					87.3	700	5.47	34.406	0.35	27.169	90.5	1.208	
886	4.48	34.442	0.46					76.9	800	4.88	34.427	0.39	27.256	82.4	1.304	
1048	3.91	34.470	0.74					69.1	1000	4.05	34.462	0.63	27.375	71.1	1.475	

120070				RV DAVID STARR JORDAN				CALCOFI CRUISE 7505				120080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME								
26 55.0N	117 09.0W	06/15/75	1355	26 32.5N	117 48.5W	06/05/75	0930								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	16.44	33.73	24.691	326.0	0.000	0	16.86	33.78	24.632	331.7	0.000				
10	16.42	33.73	24.696	325.6	0.032	10	16.74	33.77	24.652	329.8	0.033				
20	16.33	33.74	24.724	322.9	0.065	20	16.73	33.77	24.654	329.5	0.066				
30	16.06	33.76	24.801	315.6	0.097	30	16.63	33.76	24.670	328.0	0.099				
40	16.05	33.80	24.834	312.4	0.128	40	16.35	33.75	24.727	322.6	0.131				
50	16.07	33.82	24.845	311.4	0.159	50	16.12	33.72	24.757	319.8	0.163				
75	15.60	33.77	24.912	305.0	0.237	75	15.66	33.69	24.838	312.1	0.243				
100	14.92	33.65	24.970	299.5	0.313	100	14.38	33.61	25.054	291.5	0.319				
125	12.62	33.58	25.389	259.7	0.384	125	12.78	33.57	25.350	263.4	0.389				
150	10.90	33.68	25.787	221.8	0.445	150	11.55	33.63	25.630	236.7	0.452				
175	10.35	33.87	26.031	198.6	0.498	175	10.53	33.81	25.953	206.0	0.509				
200	10.11	34.06	26.220	180.6	0.547	200	10.26	34.02	26.163	186.0	0.559				
225	9.60	34.08	26.321	171.0	0.592	225	10.28	34.21	26.307	172.3	0.605				
250	9.31	34.15	26.423	161.3	0.634	250	10.09	34.31	26.418</td						

RV DAVID STARR JORDAN								CALCOFI CRUISE	7505	Z	T	10 METER S	DATA N2	DT
70.051	05/10/75	0028GMT	36 11.5N	121 44.0W	BOTTOM 103M WIND 280 1KT 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 1KT 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 3KT 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 2/KT 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 3UKT 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 2/KT 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 2/KT 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 1/KT 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 21KT 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 4KT 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 230 4KT 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 230 4KT WEATHER DOMINANT WAVES					10	10.73		4.88	
80.054	05/14/75	0735GMT	34 20.5N	120 43.5W	BOTTOM 685M WIND 240 4KT WEATHER DOMINANT WAVES					10	10.70		4.76	
80.055	05/14/75	0601GMT	34 19.0N	120 48.0W	BOTTOM 759M WIND 240 4KT WEATHER DOMINANT WAVES					10	10.73	33.880	5.02	204.2

RV DAVID STARR JORDAN	GALCUDI CRUISE 7505	Z	T	S	10 METEK DATA N2	DT
80.060 05/14/75 0242GMT 34 09.0N 121 09.0W BOTTOM 2222M WIND 230 3KT WEATHER 2 DOMINANT WAVES 310 4 5		10	12.55	33.442	6.30	268.5
80.080 05/13/75 1612GMT 33 29.0N 122 32.0W BOTTOM 3926M WIND 330 4KT WEATHER 2 DOMINANT WAVES 330 4 5		10	13.30	33.218	6.16	299.0
80.090 05/13/75 1106GMT 33 07.0N 123 14.0W BOTTOM 4308M WIND 350 15KT WEATHER 0 DOMINANT WAVES		10	13.58		6.15	
81.043 05/15/75 2306GMT 34 24.0N 119 48.0W BOTTOM 37M WIND 230 1KT WEATHER DOMINANT WAVES 240 3 3		10	12.98	33.876		244.6
81.044 05/15/75 2136GMT 34 23.0N 119 50.0W BOTTOM 62M WIND 250 7KT WEATHER 2 DOMINANT WAVES 250 3 5		10	12.06	33.863		228.6
81.044 05/15/75 2012GMT 34 22.0N 119 52.0W BOTTOM 75M WIND 220 5KT WEATHER 1 DOMINANT WAVES 270 3 4		10	12.08	33.856		229.5
81.045 05/15/75 1829GMT 34 21.0N 119 54.0W BOTTOM 353M WIND 220 3KT WEATHER 2 DOMINANT WAVES 250 3 4		10	11.24	33.846		215.4
81.046 05/15/75 1630GMT 34 19.0N 119 58.0W BOTTOM 501M WIND 250 4KT WEATHER 2 DOMINANT WAVES 250 3 4		10	11.10	33.921		207.4
81.047 05/15/75 1330GMT 34 17.0N 120 02.5W BOTTOM 593M WIND 310 1AKT WEATHER 1 DOMINANT WAVES 290 4 4		10	10.94	33.969		201.2
83.039 05/16/75 0212GMT 34 14.5N 119 19.5W BOTTOM 19M WIND 250 3KT WEATHER 2 DOMINANT WAVES 240 3 4		10	12.30	33.790		238.3
83.040 05/16/75 0326GMT 34 12.5N 119 24.0W BOTTOM 37M WIND 220 7KT WEATHER 2 DOMINANT WAVES 230 4 7		10	12.14	33.776		236.4
83.041 05/16/75 0426GMT 34 11.5N 119 26.0W BOTTOM 75M WIND WEATHER DOMINANT WAVES 240 3 6		10	12.40	33.784		240.6
83.042 05/16/75 0626GMT 34 09.5N 119 30.0W BOTTOM 233M WIND 230 2KT WEATHER DOMINANT WAVES		10	12.05	33.803		232.8
83.043 05/16/75 0810GMT 34 08.0N 119 34.0W BOTTOM 251M WIND WEATHER DOMINANT WAVES		10	12.70	33.783		246.2
83.044 05/16/75 1010GMT 34 05.5N 119 38.0W BOTTOM 187M WIND 240 5KT WEATHER DOMINANT WAVES		10	12.16	33.859		230.7
83.044 05/16/75 1140GMT 34 04.0N 119 41.0W BOTTOM 90M WIND 270 1AKT WEATHER DOMINANT WAVES		10	11.85	33.846		226.1
83.045 05/16/75 1248GMT 34 03.5N 119 42.5W BOTTOM 86M WIND 270 13KT WEATHER DOMINANT WAVES		10	11.88	33.842		226.9
83.048 05/16/75 1530GMT 33 58.0N 119 55.0W BOTTOM 121M WIND 310 15KT WEATHER 1 DOMINANT WAVES 320 4 4		10	11.53	33.790		224.6
83.049 05/16/75 1636GMT 33 55.5N 119 59.0W BOTTOM 28M WIND 330 20KT WEATHER 1 DOMINANT WAVES 300 3 4		10	11.52	33.820		222.2
83.050 05/16/75 1724GMT 33 53.5N 120 03.5W BOTTOM 24M WIND 330 21KT WEATHER 1 DOMINANT WAVES 300 3 5		10	11.56	33.794		224.8
83.051 05/16/75 1830GMT 33 52.0N 120 08.5W BOTTOM 149M WIND 290 31KT WEATHER 1 DOMINANT WAVES 340 9 5		10	11.62	33.793		225.9
83.055 05/16/75 2230GMT 33 44.0N 120 24.5W BOTTOM 1128M WIND 330 24KT WEATHER 1 DOMINANT WAVES 330 6 6		10	12.00	33.746	6.12	236.1
83.060 05/17/75 0155GMT 33 34.0N 120 45.0W BOTTOM 1387M WIND 340 20KT WEATHER 1 DOMINANT WAVES 340 9 7		10	12.84	33.750	6.10	251.3
83.070 05/17/75 0640GMT 33 14.5N 121 26.0W BOTTOM 3926M WIND 320 22KT WEATHER DOMINANT WAVES 340 9 1		10	11.84	33.724	6.16	234.9
83.080 05/17/75 1119GMT 32 54.0N 122 08.0W BOTTOM 4212M WIND 340 24KT WEATHER DOMINANT WAVES 150 9 8		10	13.40	33.316	6.15	293.8
83.090 05/17/75 1630GMT 32 34.5N 122 50.0W BOTTOM 4308M WIND 320 24KT WEATHER 2 DOMINANT WAVES 110 9 5		10	13.60	33.450	6.16	287.8

RV DAVID STARK JORDAN				GALCOFI CRUISE 7505	Z	T	10 METER DATA			DT
							S	02		
85.037 ²	05/19/75	0910GMT	34 02.5N 118 58.5W	BOTTOM 28M WIND 310 5KT WEATHER 0 DOMINANT WAVES		10	13.02	33.709		257.7
85.037 ⁵	05/19/75	0757GMT	34 02.0N 118 59.5W	BOTTOM 71M WIND 040 4KT WEATHER 0 DOMINANT WAVES		10	13.32	33.703		263.8
85.038	05/19/75	0630GMT	34 01.0N 119 02.5W	BOTTOM 223M WIND 270 4KT WEATHER 0 DOMINANT WAVES		10	13.46	33.729		264.6
85.039	05/19/75	0440GMT	33 59.0N 119 06.0W	BOTTOM 694M WIND 270 5KT WEATHER 0 DOMINANT WAVES		10	13.79	33.728		271.1
85.040	05/19/75	0303GMT	33 57.0N 119 10.5W	BOTTOM 759M WIND 230 6KT WEATHER 1 DOMINANT WAVES 360 1 7		10	14.16	33.677		282.2
87.032 ⁵	05/19/75	1855GMT	33 53.5N 118 26.5W	BOTTOM 19M WIND 270 6KT WEATHER 2 DOMINANT WAVES		10	15.42	33.778		300.6
87.032 ⁷	05/19/75	1745GMT	33 54.5N 118 28.0W	BOTTOM 30M WIND 290 5KT WEATHER 2 DOMINANT WAVES 280 1 9		10	13.68	33.770		265.9
87.033	05/19/75	1618GMT	33 54.0N 118 29.0W	BOTTOM 48M WIND 240 7KT WEATHER 2 DOMINANT WAVES 260 1 8		10	13.77	33.752		268.9
87.034	05/19/75	1500GMT	33 52.0N 118 33.5W	BOTTOM 73M WIND 270 5KT WEATHER 2 DOMINANT WAVES 49		10	14.48	33.740		284.0
87.035	05/19/75	1325GMT	33 50.5N 118 37.5W	BOTTOM 380M WIND 260 7KT WEATHER 2 DOMINANT WAVES 270 2 6		10	15.30	33.710		303.0
87.036	05/19/75	1201GMT	33 49.0N 118 40.0W	BOTTOM 907M WIND 240 5KT WEATHER DOMINANT WAVES 210 2 6		10	14.58	33.751		285.2
87.040	05/18/75	2354GMT	33 40.0N 118 58.0W	BOTTOM 925M WIND 250 4KT WEATHER 2 DOMINANT WAVES 210 2 9		10	14.28	33.643	6.50	287.0
87.045	05/18/75	2048GMT	33 30.0N 119 19.0W	BOTTOM 1664M WIND 250 6KT WEATHER 2 DOMINANT WAVES 230 3 8		10	13.02	33.775		252.8
87.050	05/18/75	1805GMT	33 20.0N 119 39.5W	BOTTOM 75M WIND 280 3KT WEATHER 2 DOMINANT WAVES 130 3 8		10	12.46	33.819	5.95	239.1
87.055	05/18/75	1533GMT	33 10.0N 120 00.0W	BOTTOM 1295M WIND 060 10KT WEATHER 2 DOMINANT WAVES 320 2 7		10	12.56	33.801	5.87	242.3
87.060	05/18/75	1300GMT	33 00.0N 120 21.5W	BOTTOM 854M WIND 250 10KT WEATHER DOMINANT WAVES		10	12.38	33.687	6.20	247.4
87.070	05/18/75	0731GMT	32 39.5N 121 03.0W	BOTTOM 3926M WIND 010 3KT WEATHER DOMINANT WAVES		10	12.39	33.426	6.19	266.8
87.090	05/17/75	2100GMT	31 59.0N 122 25.0W	BOTTOM 4116M WIND 340 20KT WEATHER 2 DOMINANT WAVES 340 R 5		10	13.49	33.486	6.22	283.0
88.030 ⁴	05/20/75	0254GMT	33 41.5N 118 08.0W	BOTTOM 19M WIND 270 10KT WEATHER 2 DOMINANT WAVES 230 2 2		10	14.29	33.673		285.1
88.031 ⁵	05/20/75	0155GMT	33 40.5N 118 09.5W	BOTTOM 24M WIND 260 10KT WEATHER 2 DOMINANT WAVES 240 2 2		10	14.78	33.671		295.1
88.032 ⁵	05/20/75	0045GMT	33 38.5N 118 13.5W	BOTTOM 37M WIND 280 10KT WEATHER 2 DOMINANT WAVES 290 2 2		10	15.23	33.673		304.3
88.033 ⁵	05/19/75	2320GMT	33 36.5N 118 17.5W	BOTTOM 205M WIND 290 10KT WEATHER 2 DOMINANT WAVES 290 2 2		10	14.99	33.675		299.2
88.034 ⁵	05/19/75	2135GMT	33 34.5N 118 22.0W	BOTTOM 907M WIND 280 4KT WEATHER 2 DOMINANT WAVES 270 2 1		10	15.18	33.675		303.1
90.027 ⁶	05/21/75	0311GMT	33 29.5N 117 45.5W	BOTTOM 47M WIND 240 4KT WEATHER 1 DOMINANT WAVES 250 4 9		10	15.39	33.692		306.3
90.028	05/21/75	0425GMT	33 28.5N 117 47.0W	BOTTOM 371M WIND 230 4KT WEATHER 1 DOMINANT WAVES		10	15.26	33.673		304.9
90.029	05/21/75	0556GMT	33 27.0N 117 49.5W	BOTTOM 630M WIND 140 3KT WEATHER 1 DOMINANT WAVES		10	15.28	33.665		305.9

RV DAVID STARK JORDAN	CALCOFI CRUISE	7505	Z	T	10 METER S	DATA #2	DT
90.030 05/21/75 0734GMT 33 25.0N 117 53.5W BOTTOM 648M WIND 330 1KT WEATHER 1 DOMINANT WAVES			10	15.10	33.638		304.2
90.031 05/21/75 0910GMT 33 23.0N 117 57.5W BOTTOM 371M WIND 100 1KT WEATHER 1 DOMINANT WAVES			10	14.04	33.624		283.7
90.032 05/21/75 1100GMT 33 21.0N 118 01.5W BOTTOM 750M WIND 320 4KT WEATHER 1 DOMINANT WAVES			10	14.53	33.621		293.7
90.033 05/21/75 1434GMT 33 11.5N 118 22.5W BOTTOM 1202M WIND 280 4KT WEATHER 1 DOMINANT WAVES 300 5 7			10	13.90	33.627		280.7
90.034 05/22/75 0040GMT 32 39.0N 119 28.5W BOTTOM 1387M WIND 310 20KT WEATHER 2 DOMINANT WAVES 300 6 7			10	12.62	33.597	6.18	258.4
90.035 05/22/75 0410GMT 32 25.0N 119 58.0W BOTTOM 1021M WIND 310 20KT WEATHER DOMINANT WAVES			10	12.62	33.631	6.34	255.9
90.036 05/22/75 0920GMT 32 04.5N 120 38.5W BOTTOM 4116M WIND 320 1KT WEATHER 2 DOMINANT WAVES 150 7 6			10	12.61	33.382	6.13	274.0
90.037 05/22/75 1356GMT 31 44.5N 121 19.5W BOTTOM 3737M WIND 330 1KT WEATHER 2 DOMINANT WAVES 310 7 7			10	13.44	33.361	6.13	291.2
91.026 05/24/75 1626GMT 33 14.5N 117 27.5W BOTTOM 17M WIND 340 3KT WEATHER 2 DOMINANT WAVES 240 2 2			10	14.80	33.712	6.38	292.5
91.027 05/24/75 1526GMT 33 14.0N 117 29.0W BOTTOM 60M WIND 250 3KT WEATHER 2 DOMINANT WAVES 250 2 2			10	15.56	33.722	5.94	307.7
91.028 05/24/75 1403GMT 33 11.5N 117 34.0W BOTTOM 759M WIND 090 7KT WEATHER 2 DOMINANT WAVES 0			10	15.40	33.716	6.30	304.7
91.029 05/24/75 1235GMT 33 09.5N 117 38.0W BOTTOM 815M WIND 050 5KT WEATHER 2 DOMINANT WAVES 0			10	15.10	33.716	6.39	298.4
91.030 05/24/75 1048GMT 33 07.5N 117 42.0W BOTTOM 833M WIND 350 3KT WEATHER DOMINANT WAVES			10	14.48	33.683	6.41	288.1
93.026 05/25/75 2157GMT 32 57.0N 117 17.5W BOTTOM 32M WIND 210 5KT WEATHER 1 DOMINANT WAVES 110 2 2			10	14.76	33.703	6.61	292.4
93.027 05/25/75 2302GMT 32 57.0N 117 18.5W BOTTOM 65M WIND 240 5KT WEATHER 1 DOMINANT WAVES 210 2 2			10	14.86	33.708	6.71	294.1
93.028 05/26/75 0028GMT 32 54.5N 117 22.0W BOTTOM 602M WIND 280 5KT WEATHER 1 DOMINANT WAVES 220 2 4			10	14.84	33.619	6.30	300.2
93.029 05/26/75 0209GMT 32 52.5N 117 26.5W BOTTOM 621M WIND 270 5KT WEATHER 2 DOMINANT WAVES 230 2 3			10	15.35	33.670		307.0
93.030 05/26/75 0346GMT 32 51.0N 117 31.5W BOTTOM 888M WIND 250 5KT WEATHER DOMINANT WAVES			10	16.38	33.739		324.1
93.031 05/24/75 0735GMT 32 40.5N 117 51.5W BOTTOM 611M WIND 320 4KT WEATHER DOMINANT WAVES			10	14.24	33.581	6.08	290.8
93.040 05/24/75 0458GMT 32 30.0N 118 11.5W BOTTOM 1756M WIND 300 12KT WEATHER DOMINANT WAVES			10	14.37	33.558	6.02	295.1
93.045 05/24/75 0233GMT 32 20.0N 118 32.0W BOTTOM 1295M WIND 300 1KT WEATHER 2 DOMINANT WAVES 300 3 5			10	14.01	33.583		286.1
93.055 05/23/75 2020GMT 32 00.0N 119 13.5W BOTTOM 1669M WIND 320 13KT WEATHER 2 DOMINANT WAVES 320 6 8			10	12.85	33.728	6.31	253.1
93.060 05/23/75 1714GMT 31 50.0N 119 34.0W BOTTOM 2227M WIND 340 12KT WEATHER 2 DOMINANT WAVES 340 7 6			10	14.22	33.501	5.97	296.3
93.070 05/23/75 1210GMT 31 30.0N 120 14.0W BOTTOM 4116M WIND 320 15KT WEATHER DOMINANT WAVES			10	12.76	33.482	5.36	269.5
93.080 05/23/75 0649GMT 31 10.0N 120 54.0W BOTTOM 3737M WIND 340 13KT WEATHER DOMINANT WAVES 7 8			10	13.95		6.23	
93.090 05/23/75 0125GMT 30 50.0N 121 34.5W BOTTOM 4212M WIND 350 12KT WEATHER 1 DOMINANT WAVES 290 7 8			10	14.23	33.349	5.25	307.6

RV DAVID STARK JORDAN							CALCOFI CRUISE	7505	Z	T	10 METER S	DATA #2	DT
95.028	05/26/75	1325GMT	32 37.0N	117 10.5W	BOTTOM 19M	WIND 250	4KT WEATHER	2	10	13.96	33.713		275.5
DOMINANT WAVES	210	1	2										
95.029	05/26/75	1156GMT	32 35.0N	117 14.5W	BOTTOM 47M	WIND 200	5KT WEATHER		10	14.33	33.696		284.2
DOMINANT WAVES													
95.030	05/26/75	1028GMT	32 33.0N	117 18.5W	BOTTOM 168M	WIND 280	4KT WEATHER		10	13.92	33.650		279.4
DOMINANT WAVES													
95.031	05/26/75	0830GMT	32 31.0N	117 22.5W	BOTTOM 685M	WIND 210	6KT WEATHER		10	13.74	33.648		276.0
DOMINANT WAVES													
95.032	05/26/75	0651GMT	32 29.0N	117 27.0W	BOTTOM 1128M	WIND 220	6KT WEATHER		10	13.81	33.643		277.7
DOMINANT WAVES													
97.028 ⁸	05/26/75	1615GMT	32 18.0N	117 04.0W	BOTTOM 39M	WIND	WEATHER		10	14.66	33.712		289.7
DOMINANT WAVES													
97.029	05/26/75	1650GMT	32 17.5N	117 04.5W	BOTTOM 50M	WIND 300	8KT WEATHER	2	10	14.50	33.686		288.3
DOMINANT WAVES													
97.030	05/26/75	1732GMT	32 16.0N	117 07.0W	BOTTOM 58M	WIND 300	8KT WEATHER	2	10	14.76	33.676		294.3
DOMINANT WAVES	240	5	7										
97.031	05/26/75	1831GMT	32 13.0N	117 13.5W	BOTTOM 1295M	WIND 310	8KT WEATHER	2	10	14.78	33.627		298.3
DOMINANT WAVES	230	2	3										
97.032	05/26/75	1938GMT	32 12.0N	117 15.0W	BOTTOM 556M	WIND 250	4KT WEATHER	2	10	15.25	33.636		307.4
DOMINANT WAVES	260	2	4										
97.035	05/26/75	2146GMT	32 05.5N	117 27.5W	BOTTOM 1202M	WIND 260	10KT WEATHER	2	10	15.42	33.684		307.5
DOMINANT WAVES	250	6	7										
97.040	05/27/75	0037GMT	31 56.0N	117 48.0W	BOTTOM 1572M	WIND 290	11KT WEATHER	2	10	14.72	33.578		300.7
DOMINANT WAVES	240	3	8										
97.045	05/27/75	0317GMT	31 46.0N	118 08.5W	BOTTOM 1664M	WIND 300	4KT WEATHER	2	10	14.98			
DOMINANT WAVES													
97.050	05/27/75	0559GMT	31 36.0N	118 30.5W	BOTTOM 2509M	WIND 300	4KT WEATHER		10	14.74	33.581		300.9
DOMINANT WAVES													
97.055	05/27/75	0822GMT	31 25.5N	118 49.5W	BOTTOM 668M	WIND 280	8KT WEATHER		10	14.37	33.542		296.3
DOMINANT WAVES													
97.070	05/27/75	1635GMT	30 55.0N	119 50.0W	BOTTOM 3137M	WIND 330	14KT WEATHER	2	10	14.94	33.529		308.8
DOMINANT WAVES	300	3	4										
97.080	05/27/75	2108GMT	30 35.5N	120 31.0W	BOTTOM 4116M	WIND 310	12KT WEATHER	0	10	14.19	33.389	5.40	303.9
DOMINANT WAVES	300	4	6										
97.090	05/28/75	0152GMT	30 16.0N	121 10.0W	BOTTOM 4021M	WIND 320	21KT WEATHER	0	10	15.16	33.470	5.89	317.7
DOMINANT WAVES	310	4	7										
100.029	05/29/75	1134GMT	31 42.0N	116 43.5W	BOTTOM 157M	WIND 210	4KT WEATHER		10	11.34	33.695		228.2
DOMINANT WAVES													
100.030	05/29/75	1005GMT	31 40.5N	116 46.5W	BOTTOM 427M	WIND 300	4KT WEATHER		10	12.45	33.741	3.16	244.7
DOMINANT WAVES													
100.031	05/29/75	0858GMT	31 38.5N	116 50.5W	BOTTOM 106M	WIND 290	3KT WEATHER		10	15.14	33.647		304.3
DOMINANT WAVES													
100.032	05/29/75	0750GMT	31 36.5N	116 54.5W	BOTTOM 1202M	WIND 300	3KT WEATHER	2	10	15.54	33.648		312.6
DOMINANT WAVES													
100.035	05/29/75	0600GMT	31 30.5N	117 07.0W	BOTTOM 1128M	WIND 340	4KT WEATHER		10	14.84	33.589	5.94	302.4
DOMINANT WAVES													
100.040	05/29/75	0304GMT	31 21.0N	117 27.0W	BOTTOM 1849M	WIND 250	6KT WEATHER	2	10	14.79	33.587	6.04	301.5
DOMINANT WAVES	270	3	6										
100.050	05/28/75	2223GMT	31 00.5N	118 07.0W	BOTTOM 1856M	WIND 200	3KT WEATHER	2	10.	14.48	33.542	6.11	298.5
DOMINANT WAVES	310	3	6										
100.060	05/28/75	1804GMT	30 40.5N	118 47.5W	BOTTOM 3169M	WIND 320	6KT WEATHER	2	10	15.67	33.718	5.82	310.3
DOMINANT WAVES	290	4	5										

RV DAVID STARR JORDAN	CALCULI CRUISE	7505	Z	T	10 METER S	DATA D2	DT
100.080 05/28/75 0736GMT 30 01.0N 120 07.0W BOTTOM 4116M WIND 340 2KT WEATHER DOMINANT WAVES			10	15.76	33.746	5.73	310.1
103.028 ⁸ 05/29/75 1542GMT 31 07.5N 116 20.0W BOTTOM 19M WIND 160 3KT WEATHER 2 DOMINANT WAVES 230 2 6			10	12.14	33.774		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			10	13.88	33.785		268.7
103.030 05/29/75 1654GMT 31 06.0N 116 24.5W BOTTOM 65M WIND 300 3KT WEATHER 2 DOMINANT WAVES 230 2 6			10	13.82	33.750	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			10	13.88	33.665		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			10	13.38	33.628		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			10	14.62	33.614	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			10	15.15	33.604		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			10	15.00	33.550	5.08	308.5
103.060 05/30/75 1102GMT 30 06.0N 118 25.0W BOTTOM 2980M WIND 210 3KT WEATHER DOMINANT WAVES			10	15.20	33.591	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			10	15.74	33.708	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			10	14.42	33.776		280.1
107.030 ⁶ 06/01/75 0544GMT 30 28.5N 116 05.5W BOTTOM 21M WIND 340 14KT WEATHER DOMINANT WAVES			10	14.87	33.768		289.9
107.031 06/01/75 0511GMT 30 28.0N 116 07.0W BOTTOM 39M WIND 330 17KT WEATHER DOMINANT WAVES			10	13.69	33.716		270.0
107.032 06/01/75 0414GMT 30 26.0N 116 11.0W BOTTOM 371M WIND 330 14KT WEATHER DOMINANT WAVES			10	14.99	33.641	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			10	15.38	33.639		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			10	15.45	33.621		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			10	15.23	33.607	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			10	15.08	33.566	6.00	309.0
107.060 05/31/75 1053GMT 29 31.5N 118 01.5W BOTTOM 3545M WIND 320 17KT WEATHER DOMINANT WAVES			10	15.26	33.618	5.85	308.9
107.070 05/31/75 0601GMT 29 11.0N 118 41.0W BOTTOM 2980M WIND 320 14KT WEATHER DOMINANT WAVES			10	15.56	33.665	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			10	16.50	33.867	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			10	14.28	33.644		287.0
110.033 06/01/75 1028GMT 29 50.0N 115 52.0W BOTTOM 71M WIND 330 20KT WEATHER DOMINANT WAVES			10	14.70	33.615		297.6
110.034 06/01/75 1114GMT 29 48.5N 115 56.0W BOTTOM 929M WIND 330 20KT WEATHER DOMINANT WAVES			10	15.31	33.624		309.6
110.035 06/01/75 1236GMT 29 46.0N 116 00.0W BOTTOM 1298M WIND 330 20KT WEATHER DOMINANT WAVES			10	15.32	33.630	5.88	309.3

RV DAVID STARR JORDAN						CALCOFI CRUISE	7505	Z	T	10 METER DATA
								S	N2	DT
110.040	06/01/75	1530GMT	29 36.0N	116 20.0W				10	15.22	33.664 5.89 304.7
	BOTTOM	2415M	WIND 330	22KT WEATHER 2						
	DOMINANT WAVES	120	5	8						
110.045	06/01/75	1800GMT	29 27.5N	116 40.0W				10	15.22	33.669
	BOTTOM	502M	WIND 330	17KT WEATHER 2						304.4
	DOMINANT WAVES	130	5	6						
110.055	06/02/75	0008GMT	29 06.5N	117 19.0W				10	15.56	33.659
	BOTTOM	3461M	WIND 340	11KT WEATHER 2						312.3
	DOMINANT WAVES	340	5	8						
110.060	06/02/75	0252GMT	28 56.5N	117 39.0W				10	15.77	33.619 5.81 319.6
	BOTTOM	3545M	WIND 340	18KT WEATHER 2						
	DOMINANT WAVES	340	5	8						
110.070	06/02/75	0752GMT	28 36.5N	118 18.0W				10	15.70	33.640 5.86 316.6
	BOTTOM	3926M	WIND 320	17KT WEATHER						
	DOMINANT WAVES									
110.080	06/02/75	1232GMT	28 16.5N	118 57.0W				10	15.96	33.675 5.78 319.6
	BOTTOM	3926M	WIND 320	14KT WEATHER						
	DOMINANT WAVES									
113.028 ⁸	06/03/75	2027GMT	29 25.0N	115 12.5W				10	13.06	33.805
	BOTTOM	21M	WIND 280	20KT WEATHER 1						251.4
	DOMINANT WAVES	300	2	3						
113.029	06/03/75	2000GMT	29 24.5N	115 13.5W				10	12.76	33.795
	BOTTOM	28M	WIND 270	17KT WEATHER 1						246.5
	DOMINANT WAVES	320	2	3						
113.030	06/03/75	1910GMT	29 22.0N	115 18.0W				10	13.38	33.789
	BOTTOM	60M	WIND 300	15KT WEATHER 2						258.6
	DOMINANT WAVES	310	4	3						
113.031	06/03/75	1824GMT	29 20.5N	115 21.5W				10	13.41	33.771
	BOTTOM	84M	WIND 310	13KT WEATHER 2						260.6
	DOMINANT WAVES	300	5	4						
113.032	06/03/75	1733GMT	29 17.5N	115 25.5W				10	13.31	33.803
	BOTTOM	108M	WIND 330	11KT WEATHER 2						256.3
	DOMINANT WAVES	310	5	5						
113.035	06/03/75	1523GMT	29 11.0N	115 38.0W				10	14.90	33.601 5.94 302.7
	BOTTOM	1485M	WIND 310	13KT WEATHER 2						
	DOMINANT WAVES	310	5	7						
113.040	06/03/75	1248GMT	29 02.0N	115 56.0W				10	15.57	33.644 5.93 313.6
	BOTTOM	1856M	WIND 330	12KT WEATHER						
	DOMINANT WAVES									
113.045	06/03/75	1012GMT	28 52.0N	116 18.0W				10	15.57	33.622
	BOTTOM	2227M	WIND 340	14KT WEATHER						315.2
	DOMINANT WAVES									
113.050	06/03/75	0730GMT	28 41.5N	116 37.0W				10	15.48	33.610 5.84 314.1
	BOTTOM	3737M	WIND 310	17KT WEATHER						
	DOMINANT WAVES									
113.060	06/03/75	0250GMT	28 25.0N	117 17.0W				10	15.80	33.647 5.80 318.3
	BOTTOM	3641M	WIND 310	13KT WEATHER 2						
	DOMINANT WAVES	320	3	4						
113.080	06/02/75	1708GMT	27 42.0N	118 33.0W				10	16.26	33.695 5.73 324.7
	BOTTOM	3926M	WIND 330	12KT WEATHER 2						
	DOMINANT WAVES	330	5	7						
117.025	06/04/75	0019GMT	28 58.0N	114 37.0W				10	14.04	33.739
	BOTTOM	54M	WIND 290	12KT WEATHER 1						275.2
	DOMINANT WAVES	300	5	5						
117.026	06/04/75	0100GMT	28 56.0N	114 41.5W				10	14.48	33.737
	BOTTOM	75M	WIND 290	17KT WEATHER 1						284.2
	DOMINANT WAVES	290	5	5						
117.027	06/04/75	0143GMT	28 54.0N	114 45.0W				10	15.08	33.751
	BOTTOM	82M	WIND 300	14KT WEATHER 1						295.5
	DOMINANT WAVES	290	4	5						
117.028	06/04/75	0227GMT	28 52.0N	114 49.0W				10	15.65	33.770
	BOTTOM	90M	WIND 300	14KT WEATHER 1						306.1
	DOMINANT WAVES	300	4	5						
117.030	06/04/75	0340GMT	28 48.0N	114 56.5W				10	15.24	33.785
	BOTTOM	103M	WIND 280	14KT WEATHER						296.3
	DOMINANT WAVES									
117.035	06/04/75	0546GMT	28 38.0N	115 16.0W				10	14.54	33.566 6.07 297.9
	BOTTOM	196M	WIND 290	4KT WEATHER						
	DOMINANT WAVES									
117.040	06/04/75	1024GMT	28 28.0N	115 35.5W				10	15.36	33.602 5.87 312.2
	BOTTOM	1021M	WIND 260	7KT WEATHER						
	DOMINANT WAVES									
117.045	06/04/75	1309GMT	28 18.0N	115 56.0W				10	15.24	33.574
	BOTTOM	3737M	WIND 310	12KT WEATHER 1						311.7
	DOMINANT WAVES	310	4	6						
117.060	06/04/75	2006GMT	27 48.0N	116 53.0W				10	15.47	33.613 5.86 313.7
	BOTTOM	3832M	WIND 330	4KT WEATHER 1						
	DOMINANT WAVES	310	4	6						

RV DAVID STARR JORDAN	GALCOFI CRUISE	7505	10 METER DATA				
			Z	T	S	NO	
117.070	06/05/75	0056GMT 27 27.5N 117 33.0W BOTTOM 3926M WIND 330 4KT WEATHER 1 DOMINANT WAVES 300 4 5	10	16.66	33.795	5.68	326.2
117.080	06/05/75	0513GMT 27 08.0N 118 10.0W BOTTOM 4308M WIND 330 6KT WEATHER DOMINANT WAVES	10	16.28	33.658		327.8
118.039	06/04/75	0814GMT 28 18.5N 115 23.5W BOTTOM 260M WIND 310 6KT WEATHER DOMINANT WAVES	10	14.98	33.563		307.2
119.033	06/06/75	1125GMT 28 19.0N 114 53.0W BOTTOM 110M WIND 320 12KT WEATHER DOMINANT WAVES	10	15.14	33.795		293.5
120.022 ⁴	06/07/75	1859GMT 28 28.0N 114 04.5W BOTTOM 17M WIND WEATHER DOMINANT WAVES	10	14.12	33.728		277.6
120.022 ⁷	06/06/75	1840GMT 28 27.5N 114 05.5W BOTTOM 21M WIND WEATHER DOMINANT WAVES	10	14.56	33.740		285.6
120.023	06/06/75	1810GMT 28 27.0N 114 07.0W BOTTOM 22M WIND 320 12KT WEATHER 2 DOMINANT WAVES 280 2 2	10	14.72	33.738		289.0
120.024	06/06/75	1728GMT 28 25.0N 114 10.5W BOTTOM 34M WIND 350 8KT WEATHER 1 DOMINANT WAVES 310 2 6	10	15.90	33.763		311.9
120.025	06/06/75	1643GMT 28 22.5N 114 15.0W BOTTOM 58M WIND 350 8KT WEATHER 2 DOMINANT WAVES 310 3 6	10	16.01	33.784		312.8
120.026	06/06/75	1521GMT 28 22.0N 114 18.0W BOTTOM 80M WIND 350 8KT WEATHER 2 DOMINANT WAVES 310 3 6	10		33.799		
120.030	06/06/75	1329GMT 28 13.0N 114 34.0W BOTTOM 95M WIND 320 13KT WEATHER 1 DOMINANT WAVES 310 3 5	10	15.22	33.805		294.4
120.035	06/06/75	0827GMT 28 03.0N 114 54.0W BOTTOM 82M WIND 330 11KT WEATHER DOMINANT WAVES	10	14.91	33.673		297.7
120.040	06/06/75	0610GMT 27 56.5N 115 14.0W BOTTOM 39M WIND 320 15KT WEATHER DOMINANT WAVES	10	15.89	33.737		313.6
120.045	06/06/75	0327GMT 27 43.0N 115 33.0W BOTTOM 2415M WIND 330 13KT WEATHER DOMINANT WAVES	10	15.41	33.672	6.19	308.2
120.050	06/06/75	0026GMT 27 33.0N 115 52.5W BOTTOM 3926M WIND 340 10KT WEATHER 1 DOMINANT WAVES 260 4 6	10	15.18	33.571	6.00	310.7
120.060	06/05/75	1946GMT 27 13.0N 116 30.5W BOTTOM 3926M WIND 260 8KT WEATHER 2 DOMINANT WAVES 260 3 4	10	15.26	33.675	6.16	304.8
120.080	06/05/75	0954GMT 26 32.5N 117 48.5W BOTTOM 4021M WIND 360 10KT WEATHER DOMINANT WAVES	10	16.73	33.783	5.70	328.6