

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7505
7 May - 6 June 1975

CalCOFI Cruise 7506
8 June - 12 June 1975

CalCOFI Cruise 7507
23 June - 18 July 1975

CalCOFI Cruise 7509
13 September - 22 September 1975

CalCOFI Cruise 7510
2 October - 16 November 1975

CalCOFI Cruise 7512
8 December - 14 December 1975

SIO Reference 84-13
15 June 1984

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Sponsored by
Marine Research Committee

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15 June 1984

Approved for distribution:


W. A. Nierenberg, Director

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INTRODUCTION

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

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

STANDARD PROCEDURES

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

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

Hydrographic Cast Data

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

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

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

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

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

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

TABULATED DATA

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

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

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

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

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

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

2) Data from the STD lowerings are presented with two stations printed side by side. Temperature and salinity are tabulated at closer standard intervals than the interpolated standard depth bottle data. Additional computed values are also presented.

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

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

The column headings are to be interpreted as follows:

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

FOOTNOTES

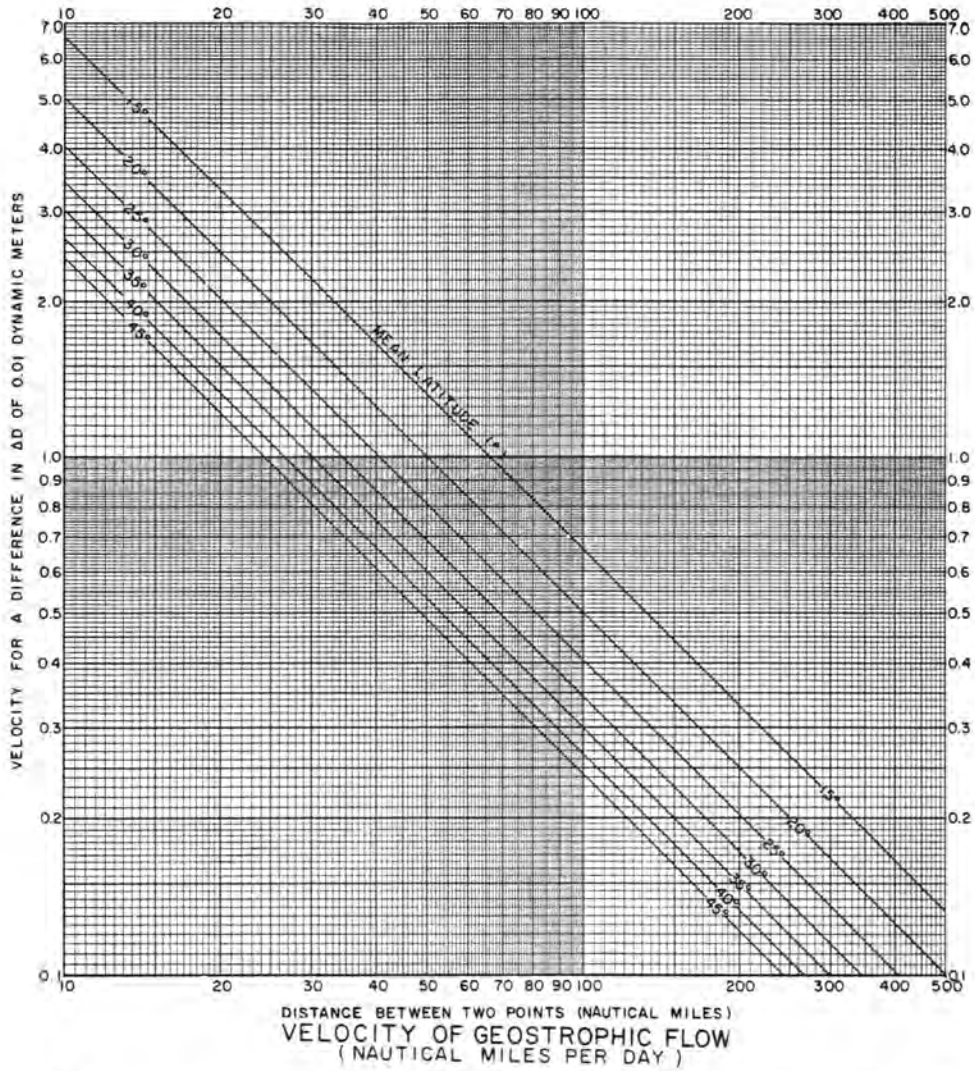
In addition to explicit footnotes, the following notations have been used.

P: Nansen bottle posttripped.

U: Uncertain value - not used in interpolation.

LITERATURE CITED

- Anderson, G. C., compiler, 1971. "Oxygen Analysis," Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.
- Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10: 141-143.
- Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.
- Matthews, D. J., 1939. Tables of the velocity of sound in pure water and seawater for use in echosounding and sound-ranging. Second Edition. Hydrographic Department, Admiralty, H. D. 282, 52 pp.
- Plessey Environmental Systems, 1974. Instruction Manual, *In situ* Salinity/Temperature/Depth Monitoring and Recording System, Model 9040.



cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> 0.02 <i>NM/DAY</i>	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	
10	4.66	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37
20	9.32	0.41	0.43	0.45	0.47	0.49	0.51	0.52	0.54	0.56
30	13.99	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76
40	18.65	0.80	0.82	0.84	0.85	0.87	0.89	0.91	0.93	0.95
50	23.31	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
60	27.98	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34
70	32.63	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.53
80	37.30	1.57	1.59	1.61	1.63	1.65	1.67	1.69	1.71	1.73
90	41.96	1.77	1.79	1.81	1.83	1.85	1.86	1.88	1.90	1.92
100	46.62	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12

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

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

FIGURES

Cruise 7510

1. CalCOFI Cruise 7510, station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500 d-bar).
3. Horizontal distribution of dynamic height anomaly (200 over 500 d-bar).
4. Horizontal distribution of temperature at 10 meters.
5. Horizontal distribution of salinity at 10 meters.
6. Horizontal distribution of thermosteric anomaly at 10 meters.
7. Horizontal distribution of temperature at 200 meters.
8. Horizontal distribution of salinity at 200 meters.
9. Horizontal distribution of thermosteric anomaly at 200 meters.

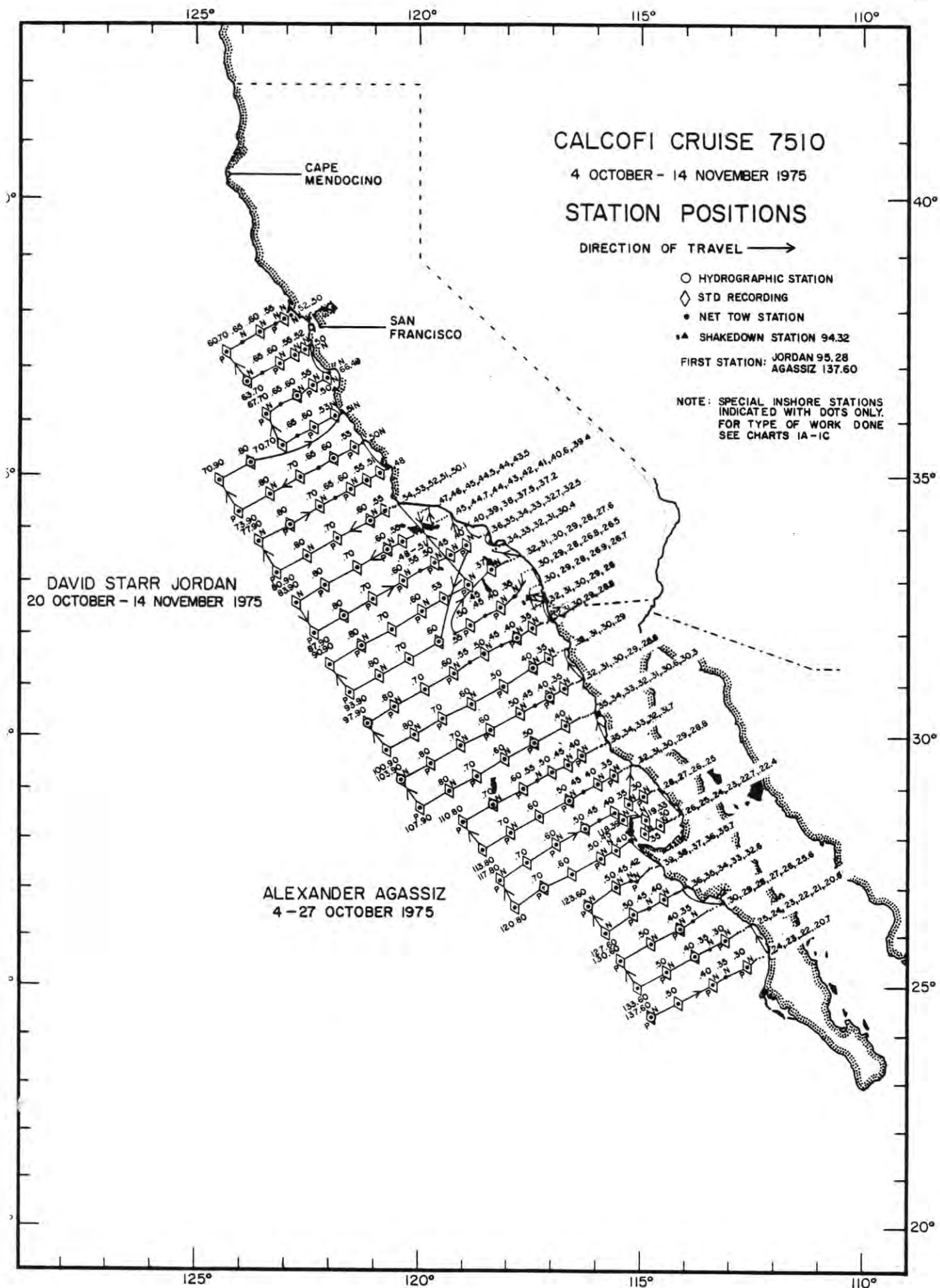


FIGURE 1

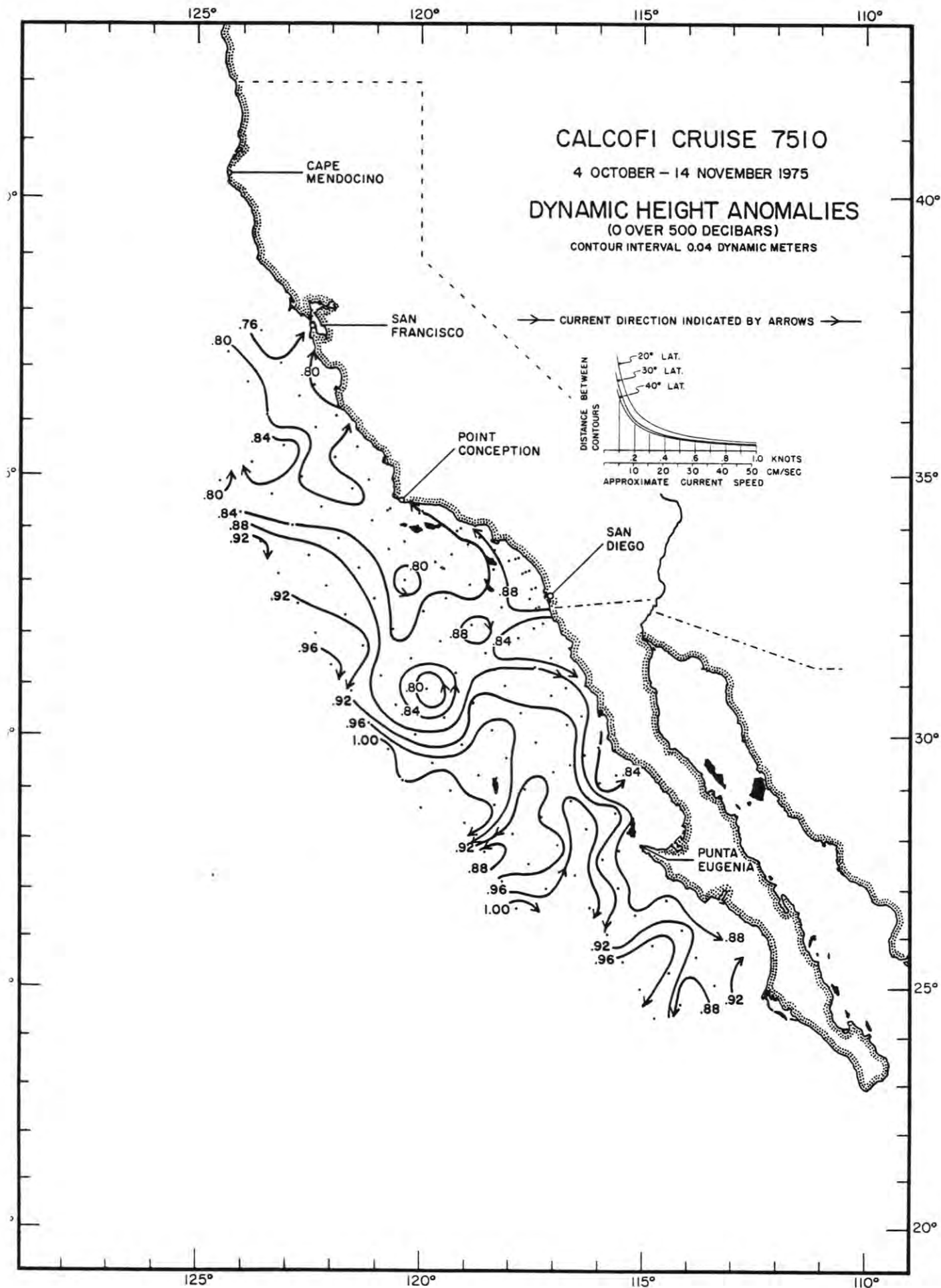


FIGURE 2

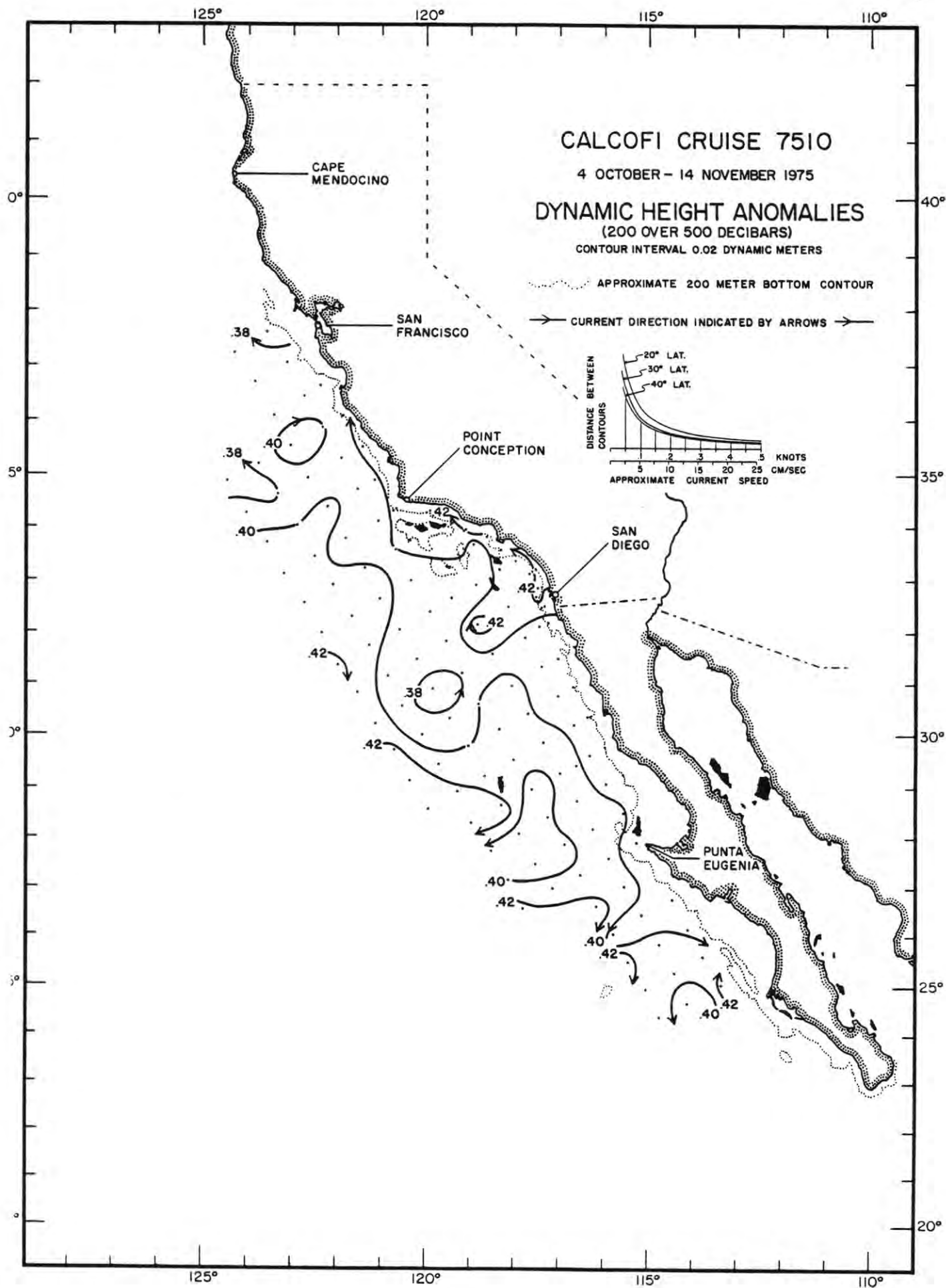


FIGURE 3

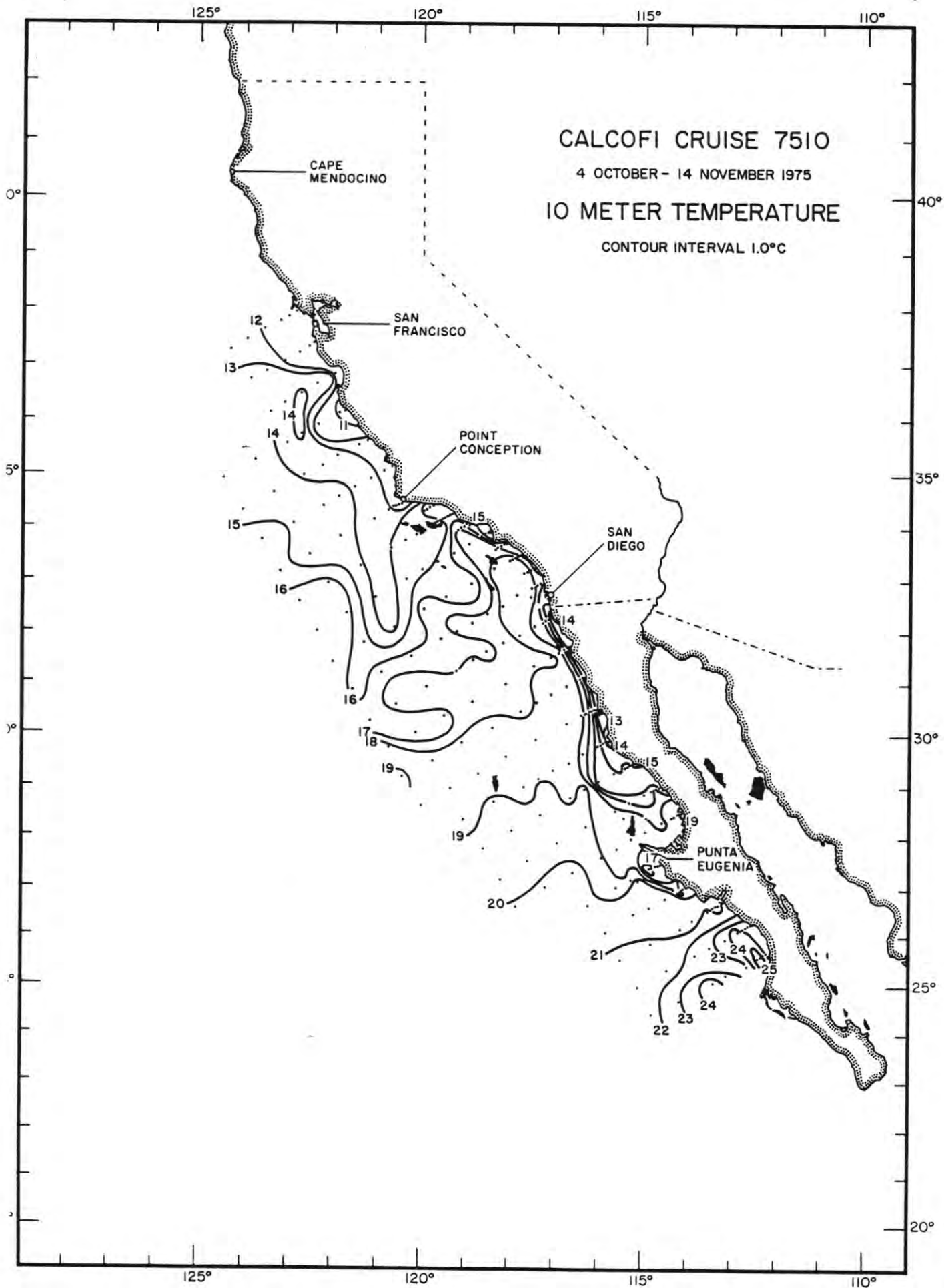


FIGURE 4

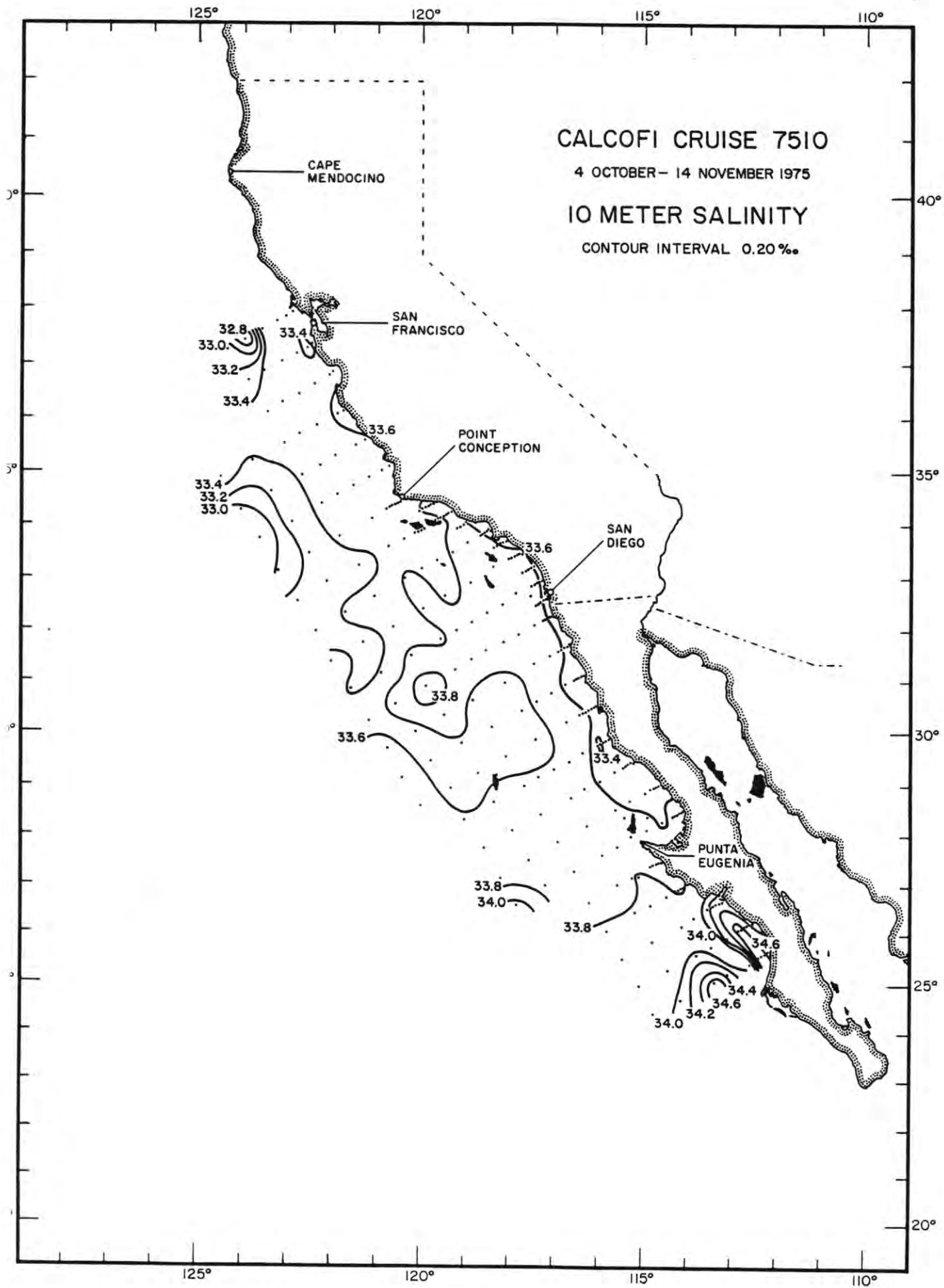


FIGURE 5

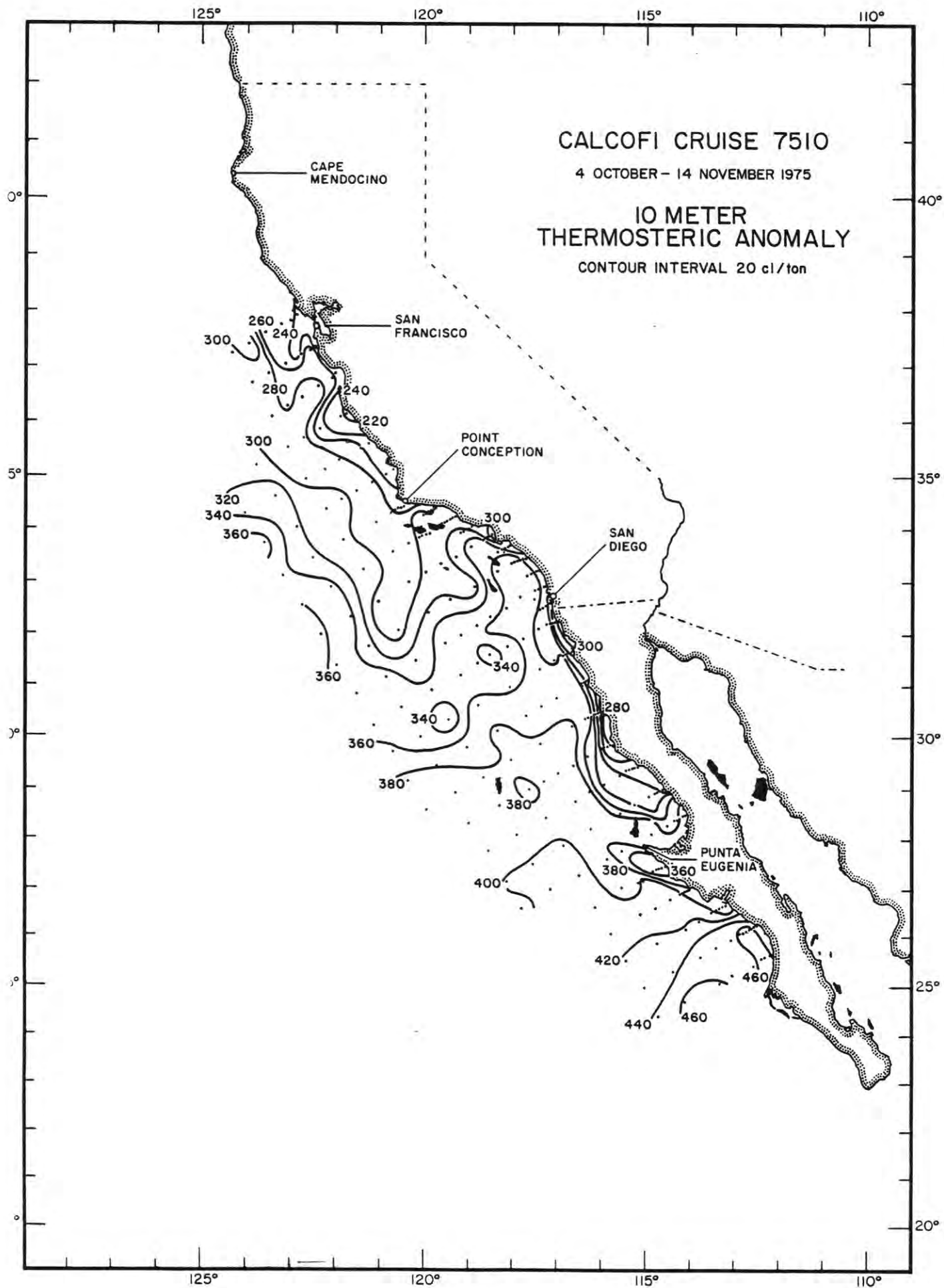


FIGURE 6

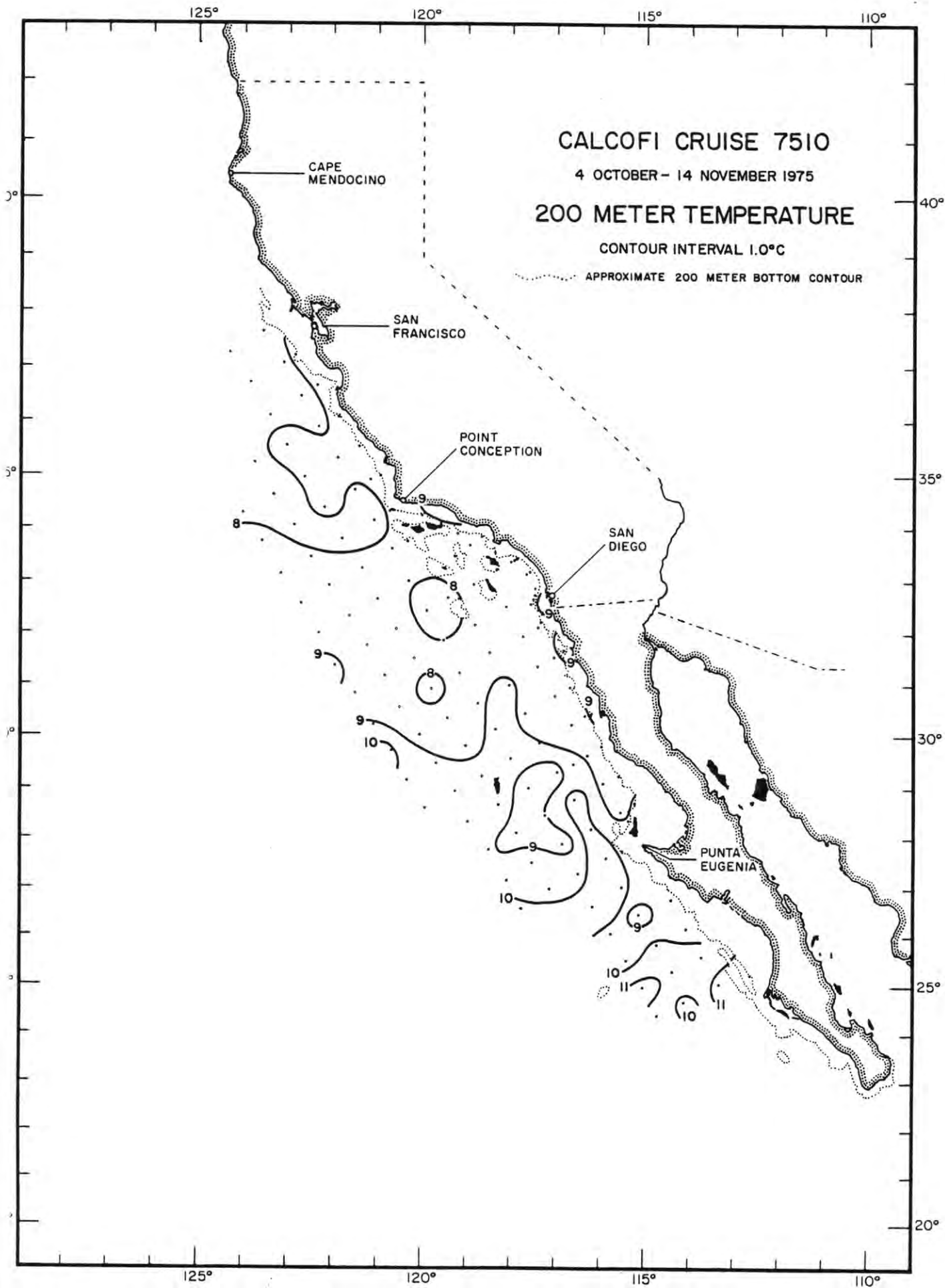


FIGURE 7

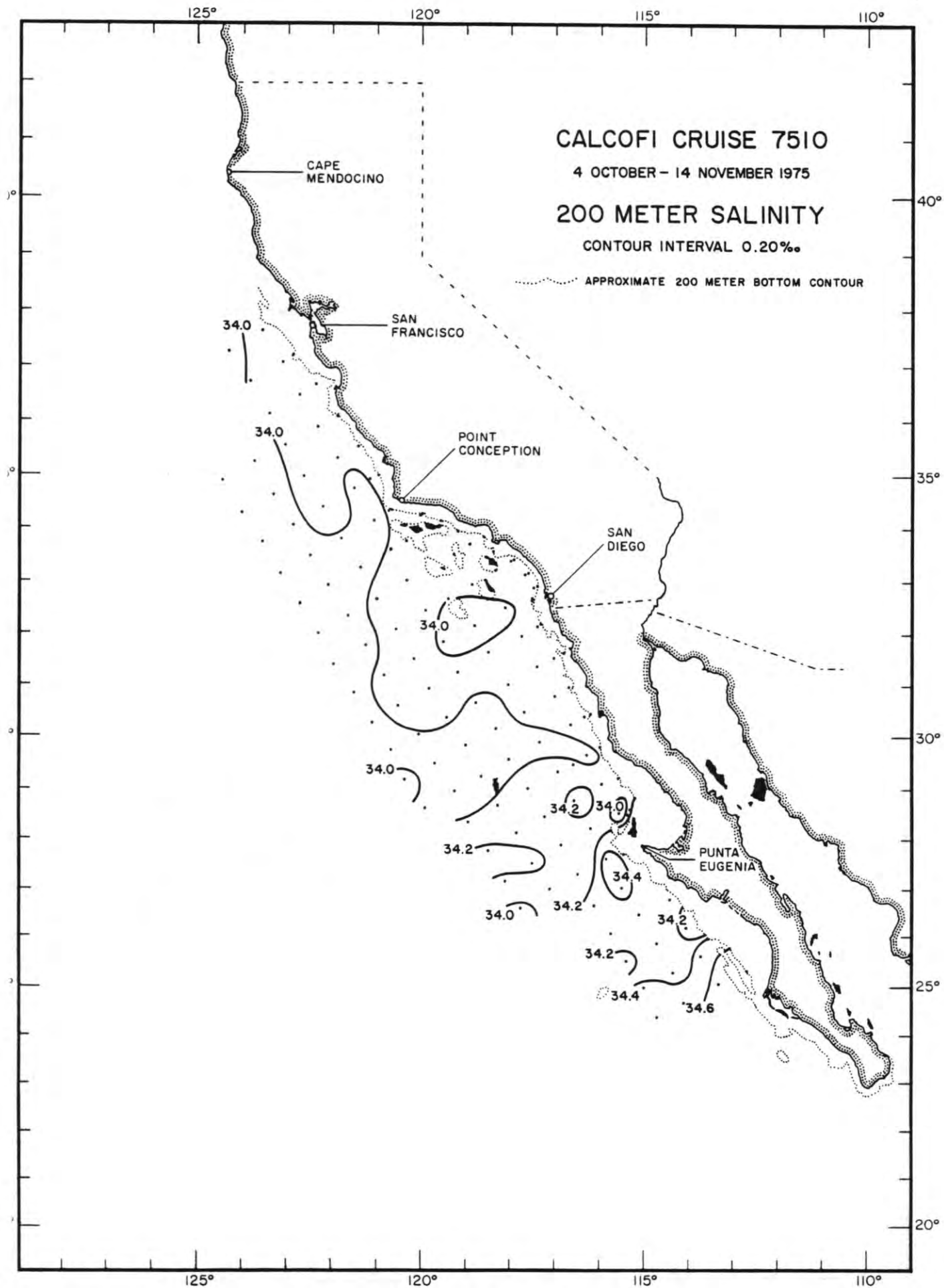


FIGURE 8

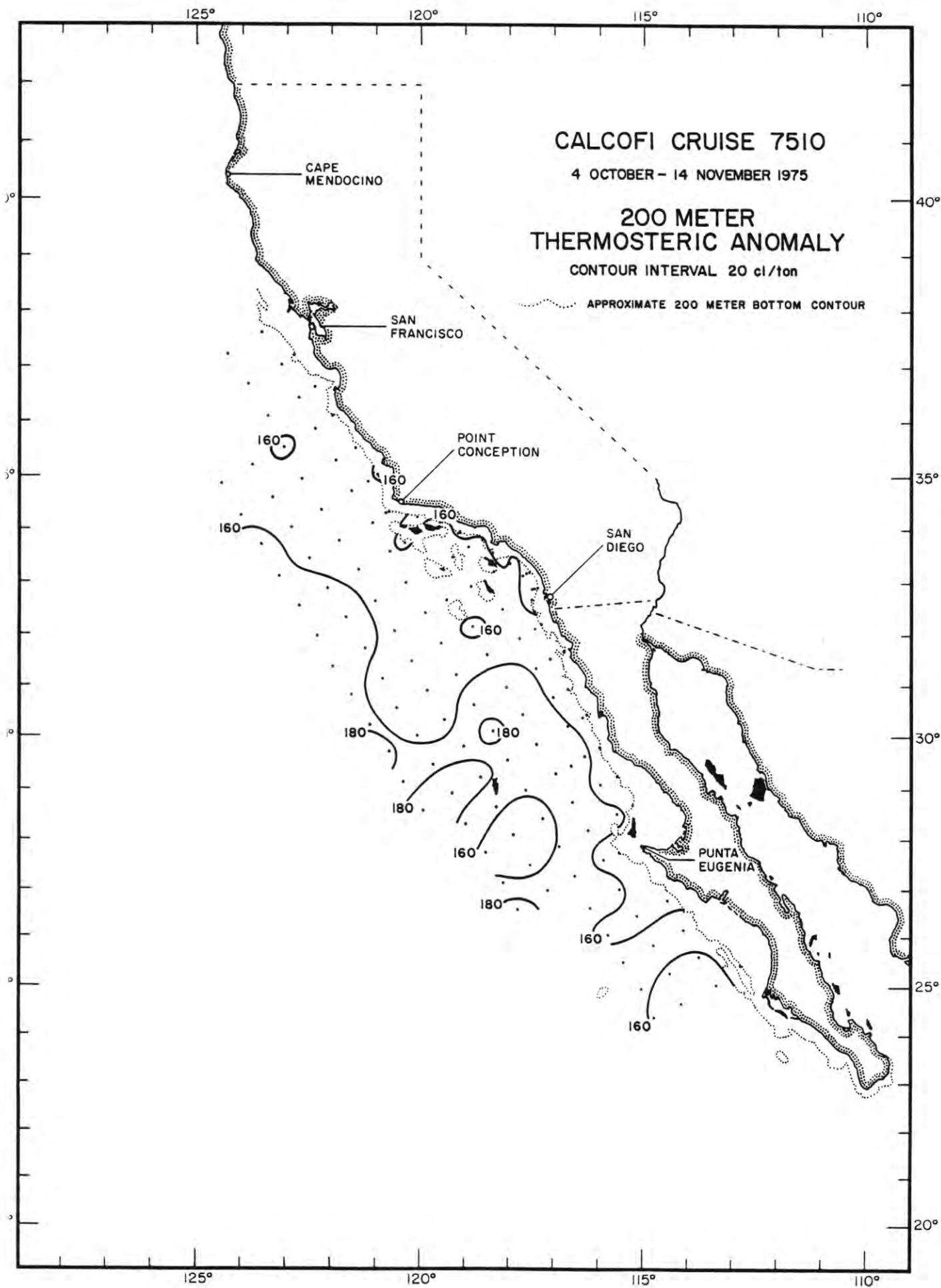


FIGURE 9

PERSONNEL

Cruise 7510

SHIPS' CAPTAINS

Davis, Laurence E., RV *Alexander Agassiz*
Forster, Charles W., RV *David Starr Jordan*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV *Alexander Agassiz*

Bryan, Walter R. (in charge)	Marine Technician, SIO
Aranda, Enrique A. Juarez	Student, ESCM
Azcarate, Juan Carlos	Student, ESCM
Brown, Daniel M.	Development Engineer, SIO
Caceras, Fernando Rodriguez	Student, ESCM
Dotson, Ronald C.	Biological Technician, NMFS
Escanero, Galo A. Figuerua	Student, ESCM
Keane, Timothy M.	Cadet, U.S. Merchant Marine Acad.
Kellogg, Durrant	Marine Technician, SIO
Mead, Richard V.	Marine Technician, SIO
Russell, William I.	Cadet, U.S. Merchant Marine Acad.
Schmitt, James A.	Electronics Technician, SIO
Yates, Robert E.	Marine Technician, SIO

RV *David Starr Jordan*

Counts, Robert C. (in charge)	Fishery Biologist, NMFS
Brown, Jack	Electronics Technician, NMFS
Butler, John L.	Fishery Biologist, NMFS
Costello, James P.	Staff Research Associate, SIO
Cota, Alfredo	Fishery Biologist, INP
Kaye, H. Ross	Electronics Technician, SIO
Owen, Robert	Oceanographer, NMFS
Sanchez, Carol	Biological Technician, NMFS
Singleton, James R.	Electronics Technician, SIO
Turpining, Dan	Biological Technician, NMFS

60052 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 52.5N	123 04.0W	11/14/75	0955 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
8M	260	9KT			
Z	T	S	SIGMA T	DT	DD
0	11.52	33.51	25.543	245.0	0.000
10	11.43	33.52	25.567	242.7	0.024
20	11.33	33.54	25.601	239.5	0.048
30	11.12	33.55	25.647	235.2	0.072
40	10.64	33.60	25.771	223.3	0.095
50	9.93	33.71	25.978	203.6	0.116
75	9.18	33.84	26.202	182.3	0.165

CALCOFI CRUISE 7510 60060

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 37.0N	123 37.0W	11/14/75	0516 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3353M	210	5KT			
Z	T	S	SIGMA T	DT	DD
0	11.62	33.40	25.439	254.9	0.000
10	11.58	33.43	25.470	252.0	0.025
20	11.51	33.50	25.537	245.6	0.050
30	11.40	33.56	25.604	239.2	0.074
40	10.81	33.58	25.725	227.7	0.098
50	9.91	33.67	25.950	206.3	0.119
75	8.94	33.74	26.163	186.1	0.169
100	8.52	33.90	26.353	168.0	0.213
125	8.16	33.96	26.455	158.3	0.255
150	7.90	34.00	26.525	151.7	0.294
175	7.70	34.02	26.570	147.4	0.332
200	7.53	34.06	26.626	142.1	0.369
225	7.33	34.08	26.670	138.0	0.405
250	7.14	34.09	26.704	134.7	0.440
275	6.95	34.10	26.738	131.4	0.474
300	6.83	34.12	26.770	128.4	0.508
350	6.34	34.14	26.851	120.7	0.577
400	6.08	34.20	26.932	113.0	0.633
450	5.87	34.24	26.990	107.5	0.691
500	5.44	34.24	27.043	102.5	0.747
550	5.26	34.26	27.080	99.0	0.801
600	5.06	34.30	27.135	93.8	0.852
700	4.76	34.36	27.217	86.0	0.949
800	4.44	34.39	27.276	80.4	1.040
900	4.10	34.42	27.336	74.7	1.126
1000	3.78	34.46	27.401	68.6	1.206

60070 RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 17.0N	124 21.0W	11/13/75	2321 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4110M	290	8KT	1	310 5 11	
Z	T	S	SIGMA T	DT	DD
0	12.51	33.04	24.993	297.4	0.000
10	12.11	33.05	25.077	289.4	0.029
20	12.09	33.05	25.081	289.0	0.058
30	12.09	33.06	25.088	288.3	0.087
40	12.07	33.06	25.092	287.9	0.116
50	11.70	33.10	25.192	278.4	0.144
75	9.81	33.47	25.811	219.5	0.207
100	8.52	33.65	26.158	186.6	0.258
125	8.12	33.75	26.296	173.4	0.303
150	7.87	33.90	26.451	158.7	0.345
175	7.64	33.94	26.516	152.6	0.385
200	7.37	33.96	26.570	147.4	0.423
225	7.04	33.98	26.632	141.6	0.460
250	6.70	33.99	26.686	136.4	0.496
275	6.60	34.02	26.723	132.9	0.530
300	6.32	34.03	26.768	128.7	0.564
350	6.00	34.06	26.832	122.6	0.629
400	5.28	34.05	26.912	115.0	0.691
450	5.01	34.09	26.975	109.0	0.749
500	4.95	34.16	27.037	103.1	0.805
550	4.79	34.18	27.071	99.9	0.859
600	4.68	34.25	27.139	93.4	0.910
700	4.63	34.35	27.224	85.4	1.006
800	4.13	34.37	27.293	78.8	1.096
900	4.00	34.43	27.355	73.0	1.179
1000	2.72	34.46	27.407	68.0	1.258

CALCOFI CRUISE 7510 63052

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 19.0N	122 36.0W	11/13/75	0755 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
86M	090	6KT			
Z	T	S	SIGMA T	DT	DD
0	11.55	33.21	25.305	267.7	0.000
10	11.43	33.31	25.404	258.2	0.026
20	11.34	33.50	25.568	242.6	0.051
30	10.84	33.62	25.751	225.2	0.074
40	10.16	33.67	25.908	210.3	0.096
50	9.98	33.70	25.962	205.2	0.117
67	9.77	33.76	26.044	197.4	0.151

63055		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 12.5N	122 49.5W	11/13/75	0934 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
294M	230	4KT	1	310 10 10	
Z	T	S	SIGMA T	DT	DD
0	11.51	33.58	25.599	239.7	0.000
10	11.35	33.58	25.628	236.9	0.023
20	11.13	33.58	25.668	233.1	0.047
30	10.98	33.58	25.695	230.6	0.070
40	10.27	33.65	25.873	213.6	0.092
50	9.93	33.71	25.978	203.6	0.113
75	9.67	33.75	26.052	196.5	0.164
100	9.20	33.85	26.207	181.9	0.211
125	8.71	33.95	26.363	167.1	0.256
150	8.44	33.99	26.436	160.2	0.297
175	8.24	34.03	26.498	154.3	0.337
200	8.12	34.04	26.523	151.8	0.376
225	7.75	34.07	26.602	144.4	0.414
250	7.14	34.12	26.728	132.4	0.450

CALCOFI CRUISE 7510		63060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
37 03.0N	123 10.0W	11/13/75	1204 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
2410M	310	7KT	1	310 10 10	
Z	T	S	SIGMA T	DT	DD
0	11.80	33.55	25.522	247.0	0.000
10	11.80	33.55	25.522	247.0	0.024
20	11.66	33.55	25.548	244.5	0.049
30	11.35	33.55	25.605	239.1	0.073
40	11.06	33.57	25.673	232.6	0.097
50	10.41	33.59	25.803	220.3	0.119
75	9.12	33.77	26.158	186.6	0.171
100	8.63	33.87	26.313	171.8	0.216
125	8.46	33.93	26.386	164.9	0.259
150	8.32	34.01	26.470	156.9	0.299
175	7.92	34.02	26.537	150.5	0.339
200	7.94	34.09	26.589	145.6	0.376
225	7.38	34.05	26.639	140.9	0.413
250	7.37	34.11	26.688	136.2	0.449
275	7.26	34.14	26.727	132.5	0.483
300	7.14	34.16	26.759	129.5	0.517
350	6.27	34.10	26.829	122.9	0.583
400	6.14	34.18	26.909	115.3	0.645
450	5.92	34.21	26.960	110.4	0.704
500	5.67	34.25	27.023	104.4	0.761
550	5.23	34.22	27.052	101.7	0.815
600	5.03	34.24	27.091	98.0	0.869
700	4.70	34.32	27.192	88.4	0.969
800	4.42	34.39	27.278	80.2	1.061
900	4.01	34.43	27.354	73.1	1.146
1000	3.80	34.46	27.399	68.8	1.225

RV DAVID STARR JORDAN		CALCOFI CRUISE 7510				63070									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 43.0N	123 54.0W	11/13/75	1839 GMT		3919M	310	9KT	1	310 10 10						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	13.47	33.326	6.10					294.4	0	13.47	33.326	5.10	25.024	294.4	0.000
10	13.43	33.325	6.17					293.7	10	13.43	33.325	5.17	25.031	293.7	0.029
29	13.42	33.326	6.12					293.4	20	13.42	33.327	5.14	25.033	293.5	0.058
52	13.42	33.335	6.10					292.8	30	13.42	33.328	5.11	25.034	293.4	0.088
66	10.50	33.059	5.92					261.0	50	13.42	33.336	5.10	25.041	292.8	0.147
80	10.33	33.349	5.16					236.8	75	10.39	33.257	5.44	25.546	244.7	0.214
94	9.59	33.442	4.81					218.1	100	9.36	33.514	4.54	25.918	209.4	0.271
122	8.83	33.776	3.53					181.8	125	8.78	33.801	3.41	26.233	179.4	0.320
145	8.57	33.911	2.87					167.9	150	8.49	33.925	2.82	26.377	165.8	0.364
168	8.20	33.955	2.72					159.3	200	7.79	34.012	2.14	26.550	149.3	0.445
200	7.79	34.012	2.14					149.3	250	7.05	34.019	1.91	26.660	138.9	0.518
260	6.92	34.016	1.90					137.3	300	6.59	34.045	1.53	26.744	131.0	0.588
352	6.30	34.094	1.05					123.7	400	6.02	34.141	0.79	26.892	116.9	0.717
445	5.79	34.181	0.63					111.0	500	5.48	34.217	0.47	27.019	104.9	0.833
542	5.28	34.240	0.39					100.7	600	5.06	34.277	0.31	27.116	95.6	0.940
663	4.87	34.311	0.27					90.9	700	4.73	34.320	0.28	27.188	88.8	1.039
809	4.34	34.343	0.31					82.9	800	4.37	34.342	0.30	27.245	83.4	1.133
955	3.89	34.415	0.44					73.0	1000	3.77	34.430	0.00	27.378	70.8	1.304

63070		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
36 43.0N	123 54.0W	11/13/75	1743 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3919M	310	9KT	1	310 10 10	
Z	T	S	SIGMA T	DT	DD
0	13.48	33.33	25.025	294.3	0.000
10	13.46	33.33	25.029	293.9	0.029
20	13.46	33.33	25.029	293.9	0.058
30	13.46	33.33	25.029	293.9	0.088
40	13.46	33.34	25.037	293.2	0.117
50	13.11	33.28	25.061	290.9	0.147
75	10.34	33.36	25.636	236.2	0.213
100	9.19	33.61	26.021	199.5	0.268
125	8.83	33.86	26.274	175.5	0.315
150	8.41	33.92	26.386	164.9	0.358
175	8.05	33.98	26.487	155.3	0.399
200	7.71	34.02	26.568	147.6	0.438
225	7.26	34.00	26.617	143.0	0.475
250	7.04	34.04	26.679	137.1	0.511
275	6.77	34.05	26.724	132.8	0.546
300	6.57	34.06	26.758	129.6	0.579
350	6.33	34.13	26.845	121.3	0.645
400	6.08	34.17	26.909	115.3	0.706
450	5.72	34.19	26.969	109.5	0.765
500	5.43	34.21	27.021	104.7	0.822
550	5.29	34.26	27.077	99.3	0.876
600	5.11	34.28	27.114	95.8	0.928
700	4.78	34.35	27.207	87.0	1.027
800	4.42	34.39	27.278	80.2	1.118
900	4.08	34.42	27.339	74.5	1.204
1000	3.83	34.45	27.388	69.8	1.284

CALCOFI CRUISE 7510		67050			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
36 48.0N	122 05.0W	11/13/75	0139 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
104M	320	4KT	0		
Z	T	S	SIGMA T	DT	DD
0	13.35	33.57	25.236	274.2	0.000
10	13.20	33.56	25.259	272.0	0.027
20	12.33	33.50	25.383	260.2	0.053
30	11.85	33.51	25.482	250.8	0.074
40	10.36	33.53	25.765	223.9	0.103
50	9.84	33.71	25.993	202.2	0.124
75	9.35	33.79	26.136	188.6	0.173

70060		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510						70070	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
35 53.0N	122 22.5W	11/12/75	0141 GMT			35 33.0N	123 06.0W	11/12/75	0738 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
3258M	340	25KT				3730M	350	23KT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	11.64	33.57	25.567	242.7	0.000	0	13.78	33.51	25.103	286.9	0.000		
10	11.64	33.57	25.567	242.7	0.024	10	13.78	33.51	25.103	286.9	0.028		
20	11.64	33.57	25.567	242.7	0.048	20	13.78	33.51	25.103	286.9	0.057		
30	11.64	33.57	25.567	242.7	0.072	30	13.78	33.51	25.103	286.9	0.086		
40	11.62	33.57	25.571	242.4	0.097	40	13.72	33.53	25.130	284.3	0.114		
50	11.58	33.57	25.578	241.6	0.121	50	13.68	33.55	25.154	282.0	0.143		
75	10.02	33.72	25.971	204.3	0.177	75	10.80	33.62	25.758	224.6	0.206		
100	9.35	33.82	26.160	186.4	0.226	100	10.09	33.71	25.951	206.2	0.261		
125	8.97	33.89	26.275	175.4	0.272	125	9.55	33.81	26.119	190.2	0.311		
150	8.46	33.96	26.409	162.7	0.315	150	9.09	33.91	26.272	175.7	0.357		
175	8.23	33.98	26.460	157.9	0.356	175	8.85	33.97	26.357	167.7	0.401		
200	7.85	34.01	26.540	150.3	0.395	200	8.59	34.01	26.429	160.9	0.443		
225	7.84	34.08	26.596	144.9	0.433	225	8.39	34.02	26.467	157.2	0.484		
250	7.67	34.09	26.629	141.8	0.470	250	8.03	34.07	26.560	148.3	0.523		
275	7.62	34.11	26.652	139.7	0.506	275	7.86	34.10	26.609	143.7	0.561		
300	7.37	34.12	26.696	135.5	0.542	300	7.54	34.11	26.663	138.5	0.597		
350	7.00	34.16	26.779	127.6	0.610	350	7.11	34.16	26.763	129.1	0.667		
400	6.57	34.18	26.853	120.6	0.675	400	6.74	34.20	26.846	121.3	0.732		
450	6.19	34.22	26.934	112.9	0.736	450	6.35	34.22	26.913	114.9	0.794		
500	5.92	34.25	26.992	107.4	0.795	500	5.98	34.24	26.976	108.9	0.853		
550	5.65	34.26	27.033	103.5	0.851	550	5.82	34.25	27.005	106.2	0.911		
600	5.32	34.27	27.081	98.9	0.905	600	5.53	34.28	27.064	100.6	0.966		
700	4.89	34.35	27.195	88.2	1.006	700	5.08	34.35	27.173	90.3	1.069		
800	4.47	34.37	27.257	82.2	1.099	800	4.73	34.38	27.236	84.2	1.165		
900	4.15	34.42	27.331	75.2	1.186	900	4.20	34.39	27.302	78.0	1.254		
1000	3.92	34.47	27.395	69.2	1.267	1000	3.90	34.45	27.381	70.5	1.337		

70080		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510						70080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
35 13.0N	123 48.0W	11/ 8/75	1125 GMT			4117M	330	27KT							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	14.64	33.397	6.02					312.3	0	14.64	33.397	6.02	24.835	312.3	0.000
11	14.64	33.393	6.05					312.6	10	14.64	33.395	6.04	24.833	312.6	0.031
30	14.41	33.378	6.08					309.1	20	14.58	33.402	6.06	24.850	310.9	0.062
53	13.42	33.427	6.06					286.0	30	14.41	33.378	6.08	24.870	309.1	0.093
68	10.87	33.308	5.43					248.8	50	13.55	33.420	6.06	25.080	289.0	0.153
82	10.20	33.463	4.84					227.9	75	10.49	33.376	5.12	25.620	237.6	0.219
96	9.38	33.578	4.44					204.8	100	9.30	33.622	4.37	26.011	200.5	0.275
125	8.86	33.763	3.90					183.2	125	8.86	33.763	3.90	26.193	183.2	0.323
149	8.63	33.882	3.00					170.9	150	8.61	33.885	2.99	26.326	170.6	0.368
173	8.24	33.916	2.86					162.8	200	7.72	33.956	3.18	26.516	152.5	0.450
205	7.63	33.963	3.24					150.7	250	7.12	34.022	2.24	26.652	139.6	0.525
267	6.99	34.038	1.73					136.6	300	6.67	34.045	1.59	26.732	132.1	0.595
361	6.23	34.057	1.35					125.6	400	6.13	34.109	1.02	26.853	120.6	0.726
454	6.04	34.186	0.60					113.6	500	5.78	34.224	0.46	26.988	107.8	0.846
552	5.47	34.256	0.41					101.7	600	5.26	34.286	0.35	27.100	97.1	0.956
674	4.99	34.326	0.30					91.1	700	4.89	34.338	0.30	27.184	89.1	1.056
819	4.46	34.386	0.34					80.9	800	4.52	34.379	0.33	27.258	82.2	1.150
964	3.94	34.441	0.48					71.6	1000	3.84	34.460		27.395	69.2	1.318

70090		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510						70090	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
35 13.0N	123 48.0W	11/08/75	1018 GMT			34 53.0N	124 30.0W	11/08/75	0520 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
4117M	330	27KT				4308M	330	19KT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	14.72	33.41	24.828	313.0	0.000	0	15.09	33.47	24.794	316.2	0.000		
10	14.72	33.41	24.828	313.0	0.031	10	15.08	33.47	24.796	316.0	0.031		
20	14.72	33.41	24.828	313.0	0.062	20	14.73	33.48	24.880	308.1	0.062		
30	14.58	33.40	24.850	310.9	0.093	30	14.69	33.49	24.896	306.5	0.093		
40	14.27	33.43	24.939	302.5	0.124	40	14.30	33.48	24.971	299.4	0.124		
50	14.05	33.45	25.001	296.6	0.154	50	11.96	33.43	25.399	258.7	0.152		
75	10.86	33.37	25.553	244.0	0.222	75	9.86	33.57	25.881	212.9	0.211		
100	9.34	33.63	26.013	200.3	0.278	100	8.78	33.71	26.165	185.9	0.261		
125	8.85	33.73	26.169	185.5	0.327	125	8.58	33.91	26.352	168.1	0.306		
150	8.79	33.87	26.288	174.2	0.373	150	8.11	33.97	26.470	156.9	0.347		
175	8.22	33.95	26.438	160.0	0.415	175	7.86	33.98	26.515	152.6	0.387		
200	7.92	33.97	26.498	154.2	0.455	200	7.24	33.97	26.596	144.9	0.425		
225	7.57	34.03	26.596	144.9	0.493	225	6.94	33.99	26.653	139.5	0.461		
250	7.25	34.05	26.658	139.1	0.530	250	7.01	34.07	26.707	134.5	0.496		
275	6.97	34.05	26.696	135.4	0.565	275	6.50	34.03	26.744	130.9	0.530		
300	6.81	34.05	26.718	133.4	0.600	300	5.88	33.98	26.784	127.1	0.564		
350	6.29	34.07	26.803	125.3	0.667	350	5.45	34.01	26.860	119.9	0.627		
400	6.45	34.21	26.892	116.9	0.730	400	5.74	34.18	26.959	110.5	0.647		
450	6.07	34.24	26.965	109.9	0.790	450	5.47	34.21	27.016	105.1	0.744		
500	5.82	34.26	27.012	105.4	0.847	500	5.30	34.24	27.060	100.9	0.798		
550	5.48	34.28	27.070	100.0	0.902	550	5.02	34.26	27.108	96.4	0.850		
600	5.28	34.32	27.125	94.7	0.954	600	4.99	34.33	27.167	90.8	0.901		
700	4.92	34.36	27.199	87.7	1.052	700	4.60	34.38	27.251	82.8	0.944		
800	4.51	34.40	27.277	80.4	1.144	800	4.18	34.40	27.312	77.0	1.042		
900	4.18	34.44	27.344	74.0	1.230	900	3.87	34.44	27.376	71.0	1.144		
1000	3.84	34.47	27.403	68.4	1.310	1000	3.64	34.48	27.431	65.8	1.240		

73053		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510				73060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
35 31.5N	121 28.5W	11/07/75	0345 GMT		35 18.0N	121 58.0W	11/07/75	0733 GMT					
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
774M	330	20KT				2410M	350	24KT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	12.33	33.49	25.375	261.0	0.000	0	13.59	33.48	25.118	285.4	0.000		
10	12.33	33.49	25.375	261.0	0.026	10	13.59	33.48	25.118	285.4	0.028		
20	12.33	33.49	25.375	261.0	0.052	20	13.58	33.48	25.120	285.2	0.057		
30	12.31	33.49	25.379	260.6	0.078	30	13.57	33.48	25.122	285.0	0.085		
40	12.04	33.50	25.438	255.0	0.104	40	13.11	33.48	25.215	276.2	0.113		
50	11.61	33.51	25.526	246.6	0.129	50	12.56	33.48	25.323	265.9	0.141		
75	10.34	33.62	25.838	216.9	0.187	75	10.43	33.46	25.698	230.2	0.203		
100	9.65	33.76	26.064	195.5	0.239	100	9.55	33.68	26.018	199.9	0.257		
125	9.42	33.83	26.156	186.7	0.288	125	8.93	33.87	26.266	176.3	0.305		
150	8.88	33.88	26.282	174.8	0.333	150	8.72	33.95	26.361	167.2	0.348		
175	8.74	33.96	26.366	166.8	0.377	175	8.38	33.98	26.437	160.0	0.390		
200	8.50	34.03	26.458	158.0	0.418	200	8.30	34.03	26.489	155.1	0.430		
225	8.33	34.05	26.500	154.1	0.458	225	7.88	34.05	26.567	147.7	0.469		
250	8.04	34.08	26.567	147.7	0.497	250	7.59	34.08	26.633	141.5	0.506		
275	7.79	34.09	26.611	143.5	0.535	275	7.09	34.06	26.688	136.3	0.542		
300	7.47	34.13	26.689	136.1	0.571	300	6.89	34.08	26.731	132.1	0.577		
350	7.09	34.15	26.758	129.5	0.640	350	6.39	34.10	26.813	124.3	0.643		
400	6.79	34.18	26.823	123.4	0.706	400	6.05	34.12	26.873	118.7	0.706		
450	6.23	34.18	26.897	116.4	0.769	450	5.72	34.15	26.938	112.5	0.767		
500	5.95	34.22	26.964	110.0	0.829	500	5.45	34.21	27.018	104.9	0.824		
550	5.63	34.26	27.036	103.2	0.885	550	5.21	34.24	27.070	100.0	0.879		
600	5.34	34.29	27.094	97.6	0.939	600	5.02	34.28	27.124	94.8	0.931		
						700	4.67	34.35	27.219	85.8	1.028		
						800	4.32	34.39	27.289	79.2	1.118		
						900	4.02	34.43	27.353	73.2	1.202		
						1000	3.76	34.46	27.403	68.4	1.282		

RV DAVID STARR JORDAN		CALCOFI CRUISE 7510				73060									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
35 18.0N	121 58.0W	11/ 7/75	0835 GMT		2410M	350	24KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	13.53	33.431	6.15					287.8	0	13.53	33.431	6.15	25.093	287.8	0.000
11	13.55	33.428	6.24					288.4	10	13.54	33.429	6.23	25.087	288.4	0.028
30	13.48	33.429	6.14					287.0	20	13.51	33.430	6.19	25.094	287.8	0.057
53	12.54	33.458	5.91					267.1	30	13.48	33.429	6.14	25.101	287.0	0.086
68	11.22	33.497	4.79					240.8	50	12.72	33.454	5.94	25.270	271.0	0.142
82	10.10	33.477	4.61					223.6	75	10.62	33.480	4.68	25.680	232.0	0.205
96	9.49	33.633	3.88					202.4	100	9.36	33.674	3.69	26.042	197.6	0.259
125	8.89	33.851	2.87					177.1	125	8.89	33.851	2.87	26.257	177.1	0.307
149	8.69	33.899	2.67					170.6	150	8.67	33.902	2.66	26.329	170.3	0.351
173	8.44	33.936	2.52					164.2	200	8.24	33.994	2.13	26.468	157.1	0.434
205	8.21	34.003	2.06					155.9	250	7.67	34.042	1.72	26.589	145.6	0.512
267	7.45	34.046	1.64					142.1	300	7.00	34.050	1.45	26.691	135.9	0.585
362	6.26	34.059	1.14					125.8	400	5.98	34.086	0.92	26.855	120.4	0.718
457	5.66	34.134	0.63					113.0	500	5.39	34.168	0.49	26.991	107.5	0.837
556	5.10	34.211	0.38					100.9	600	4.94	34.249	0.35	27.109	96.3	0.945
679	4.70	34.306	0.31					89.4	700	4.61	34.311	0.31	27.194	88.2	1.045
825	4.16	34.331	0.37					82.0	800	4.24	34.328	0.35	27.248	83.1	1.138
973	3.81	34.416	0.55					72.2	1000	3.73	34.420		27.374	71.1	1.308

73070		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510				73080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
34 58.0N	122 41.0W	11/07/75	1347 GMT		34 39.0N	123 22.0W	11/07/75	1849 GMT					
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
4110M	330	23KT	1	330 12 10		4116M	330	18KT	2	330 9 11			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	13.97	33.44	25.009	295.8	0.000	0	15.12	33.49	24.803	315.4	0.000		
10	13.95	33.44	25.014	295.4	0.029	10	15.12	33.49	24.803	315.4	0.031		
20	13.76	33.44	25.053	291.7	0.058	20	15.11	33.49	24.805	315.2	0.063		
30	12.81	33.43	25.236	274.2	0.087	30	15.04	33.49	24.821	313.7	0.094		
40	10.24	33.33	25.630	236.7	0.112	40	13.72	33.18	24.861	309.9	0.125		
50	10.57	33.53	25.729	227.4	0.136	50	11.56	33.05	25.179	279.7	0.155		
75	9.71	33.67	25.984	203.1	0.190	75	9.52	33.13	25.594	240.2	0.220		
100	9.38	33.88	26.201	182.4	0.239	100	9.07	33.48	25.939	207.3	0.277		
125	8.96	33.95	26.324	170.8	0.283	125	8.67	33.74	26.205	182.1	0.326		
150	8.70	33.99	26.396	164.0	0.326	150	8.46	33.87	26.339	169.4	0.370		
175	8.43	34.00	26.445	159.3	0.367	175	7.88	33.93	26.473	156.7	0.412		
200	8.04	34.05	26.543	150.0	0.406	200	7.42	33.94	26.547	149.6	0.451		
225	7.87	34.08	26.592	145.3	0.444	225	7.03	34.00	26.649	139.9	0.488		
250	7.53	34.08	26.641	140.7	0.481	250	6.93	34.05	26.702	134.9	0.523		
275	7.37	34.12	26.696	135.5	0.517	275	6.86	34.09	26.743	131.0	0.558		
300	7.03	34.11	26.735	131.7	0.551	300	6.73	34.11	26.776	127.8	0.591		
350	6.39	34.12	26.829	122.8	0.617	350	6.19	34.12	26.855	120.4	0.655		
400	6.07	34.16	26.902	115.9	0.679	400	5.80	34.14	26.920	114.2	0.716		
450	5.82	34.22	26.981	108.5	0.738	450	5.61	34.18	26.975	109.0	0.775		
500	5.73	34.27	27.031	103.6	0.794	500	5.14	34.19	27.039	102.9	0.831		
550	5.53	34.28	27.064	100.6	0.849	550	4.93	34.21	27.079	99.1	0.884		
600	5.22	34.30	27.117	95.6	0.901	600	4.70	34.26	27.145	92.9	0.935		
700	4.74	34.34	27.204	87.3	1.000	700	4.66	34.35	27.220	85.7	1.031		
800	4.43	34.39	27.277	80.3	1.092	800	4.31	34.38	27.282	79.8	1.122		
900	4.12	34.42	27.334	74.9	1.177	900	4.14	34.44	27.348	73.6	1.207		
1000	3.85	34.45	27.386	70.0	1.258	1000	3.79	34.46	27.400	68.7	1.286		

73090		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 18.5N	124 03.0W	11/07/75	2354 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3164M	340	15KT	4		
Z	T	S	SIGMA T	DT	DD
0	14.51	32.93	24.504	343.9	0.000
10	14.32	32.93	24.544	340.1	0.034
20	13.93	32.94	24.633	331.6	0.067
30	13.56	33.00	24.755	320.0	0.100
40	13.71	33.10	24.801	315.6	0.132
50	11.21	33.02	25.219	275.8	0.162
75	10.06	33.20	25.559	243.5	0.227
100	9.24	33.60	26.006	201.0	0.283
125	8.54	33.72	26.209	181.7	0.331
150	8.43	33.92	26.383	165.2	0.375
175	8.16	33.96	26.455	158.3	0.416
200	7.70	33.97	26.530	151.2	0.456
225	7.41	34.00	26.596	145.0	0.494
250	7.12	34.01	26.644	140.4	0.530
275	6.56	33.96	26.681	136.9	0.566
300	6.06	33.97	26.754	130.0	0.600
350	5.48	33.98	26.833	122.5	0.665
400	5.23	34.06	26.926	113.7	0.727
450	5.05	34.10	26.978	108.7	0.785
500	4.73	34.15	27.054	101.5	0.840
550	4.76	34.23	27.114	95.8	0.892
600	4.74	34.30	27.172	90.3	0.942
700	4.45	34.36	27.251	82.8	1.035
800	4.19	34.41	27.319	76.4	1.122
900	3.93	34.44	27.370	71.5	1.204
1000	3.59	34.47	27.428	66.1	1.280

CALCOFI CRUISE 7510		77051			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 02.0N	120 56.5W	11/06/75	1929 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
316M	320	20KT	0		
Z	T	S	SIGMA T	DT	DD
0	12.28	33.51	25.400	258.6	0.000
10	12.25	33.50	25.398	258.8	0.025
20	12.03	33.51	25.448	254.0	0.051
30	11.82	33.52	25.495	249.6	0.076
40	11.43	33.49	25.544	244.9	0.101
50	10.49	33.49	25.711	229.0	0.125
75	9.79	33.60	25.916	209.6	0.180
100	9.47	33.72	26.062	195.7	0.231
125	8.99	33.80	26.202	182.4	0.279
150	8.63	33.88	26.321	171.1	0.324
175	8.58	33.97	26.399	163.7	0.366
200	8.41	33.98	26.433	160.5	0.408
225	7.75	33.99	26.539	150.4	0.448
250	7.48	34.03	26.609	143.7	0.485

77055		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 54.0N	121 13.0W	11/06/75	1649 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
574M	330	22KT	0		
Z	T	S	SIGMA T	DT	DD
0	13.62	33.46	25.097	287.4	0.000
10	13.61	33.46	25.099	287.2	0.028
20	13.58	33.46	25.105	286.7	0.057
30	13.12	33.45	25.190	278.6	0.085
40	12.35	33.42	25.317	266.5	0.113
50	11.28	33.43	25.525	246.7	0.138
75	10.50	33.66	25.842	216.6	0.197
100	9.98	33.76	26.008	200.7	0.249
125	9.41	33.84	26.165	185.8	0.298
150	9.10	33.89	26.254	177.4	0.344
175	8.73	33.98	26.383	165.2	0.388
200	8.37	34.01	26.462	157.6	0.429
225	7.99	34.05	26.551	149.2	0.468
250	7.85	34.08	26.595	145.1	0.506
275	7.18	34.02	26.644	140.4	0.543
300	6.91	34.05	26.705	134.7	0.578
350	6.33	34.08	26.805	125.1	0.646
400	6.12	34.14	26.880	118.0	0.709
450	6.10	34.22	26.945	111.8	0.769
500	5.89	34.24	26.988	107.8	0.828

CALCOFI CRUISE 7510		77060			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 43.5N	121 34.0W	11/06/75	1310 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
925M	340	21KT			
Z	T	S	SIGMA T	DT	DD
0	13.90	33.48	25.055	291.4	0.000
10	13.72	33.48	25.092	287.9	0.028
20	13.20	33.48	25.197	277.9	0.057
30	12.86	33.48	25.265	271.5	0.084
40	12.28	33.48	25.377	260.8	0.111
50	11.45	33.50	25.548	244.5	0.136
75	10.16	33.65	25.892	211.8	0.194
100	9.38	33.84	26.170	185.4	0.244
125	9.06	33.91	26.276	175.3	0.290
150	8.60	33.98	26.404	163.2	0.333
175	8.21	34.01	26.486	155.4	0.373
200	7.54	33.97	26.554	149.0	0.412
225	7.35	33.99	26.596	144.9	0.450
250	7.09	34.03	26.664	138.5	0.486
275	6.84	34.06	26.722	133.0	0.521
300	6.73	34.08	26.753	130.1	0.555
350	6.12	34.10	26.848	121.0	0.620
400	5.64	34.12	26.924	113.8	0.681
450	5.46	34.16	26.978	108.8	0.739
500	5.39	34.22	27.033	103.5	0.795
550	5.28	34.24	27.062	100.7	0.849
600	5.14	34.26	27.094	97.7	0.902
700	4.81	34.37	27.219	85.8	1.001
800	4.32	34.41	27.305	77.7	1.091
900	4.12	34.43	27.342	74.2	1.175

77070						RV DAVID STARR JORDAN						CALCOFI CRUISE 7510						77080					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
34 24.0N		122 16.0W		11/06/75		0739 GMT		34 03.0N		122 56.5W		11/06/75		0132 GMT									
BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
4110M		310 14KT						4213M		260 10KT						4213M		260 10KT					
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	14.66	33.47	24.887	307.4	0.000	0	14.97	33.38	24.751	320.3	0.000	0	14.97	33.38	24.751	320.3	0.000	0	14.97	33.38	24.751	320.3	0.000
10	14.64	33.47	24.891	307.0	0.030	10	15.30	33.52	24.787	317.0	0.031	10	15.30	33.52	24.787	317.0	0.031	10	15.30	33.52	24.787	317.0	0.031
20	14.62	33.48	24.903	305.9	0.061	20	15.34	33.58	24.824	313.4	0.063	20	15.34	33.58	24.824	313.4	0.063	20	15.34	33.58	24.824	313.4	0.063
30	14.61	33.48	24.905	305.7	0.092	30	15.28	33.56	24.822	313.6	0.094	30	15.28	33.56	24.822	313.6	0.094	30	15.28	33.56	24.822	313.6	0.094
40	14.52	33.50	24.940	302.4	0.122	40	14.06	33.37	24.937	302.7	0.125	40	14.06	33.37	24.937	302.7	0.125	40	14.06	33.37	24.937	302.7	0.125
50	14.31	33.52	25.000	296.7	0.152	50	10.64	32.88	25.211	276.6	0.154	50	10.64	32.88	25.211	276.6	0.154	50	10.64	32.88	25.211	276.6	0.154
75	10.19	33.65	25.887	212.3	0.216	75	10.22	33.48	25.750	225.3	0.217	75	10.22	33.48	25.750	225.3	0.217	75	10.22	33.48	25.750	225.3	0.217
100	8.95	33.92	26.302	172.9	0.265	100	9.05	33.76	26.161	186.3	0.269	100	9.05	33.76	26.161	186.3	0.269	100	9.05	33.76	26.161	186.3	0.269
125	8.69	34.04	26.436	160.1	0.307	125	8.88	33.86	26.266	176.3	0.315	125	8.88	33.86	26.266	176.3	0.315	125	8.88	33.86	26.266	176.3	0.315
150	8.52	34.07	26.486	155.4	0.347	150	8.59	33.93	26.366	166.8	0.359	150	8.59	33.93	26.366	166.8	0.359	150	8.59	33.93	26.366	166.8	0.359
175	8.39	34.10	26.530	151.3	0.386	175	8.28	33.97	26.444	159.3	0.400	175	8.28	33.97	26.444	159.3	0.400	175	8.28	33.97	26.444	159.3	0.400
200	8.21	34.13	26.580	146.4	0.424	200	7.93	33.99	26.513	152.9	0.440	200	7.93	33.99	26.513	152.9	0.440	200	7.93	33.99	26.513	152.9	0.440
225	8.10	34.14	26.605	144.1	0.461	225	7.63	34.02	26.580	146.5	0.478	225	7.63	34.02	26.580	146.5	0.478	225	7.63	34.02	26.580	146.5	0.478
250	7.93	34.16	26.646	140.2	0.498	250	7.28	33.99	26.606	144.0	0.516	250	7.28	33.99	26.606	144.0	0.516	250	7.28	33.99	26.606	144.0	0.516
275	7.83	34.16	26.661	138.8	0.534	275	7.09	34.03	26.664	138.5	0.552	275	7.09	34.03	26.664	138.5	0.552	275	7.09	34.03	26.664	138.5	0.552
300	7.67	34.17	26.692	135.9	0.570	300	7.17	34.08	26.692	135.8	0.587	300	7.17	34.08	26.692	135.8	0.587	300	7.17	34.08	26.692	135.8	0.587
350	7.38	34.20	26.757	129.7	0.639	350	6.83	34.16	26.802	125.4	0.655	350	6.83	34.16	26.802	125.4	0.655	350	6.83	34.16	26.802	125.4	0.655
400	7.04	34.22	26.820	123.7	0.705	400	6.50	34.17	26.854	120.5	0.719	400	6.50	34.17	26.854	120.5	0.719	400	6.50	34.17	26.854	120.5	0.719
450	6.67	34.24	26.886	117.4	0.768	450	5.99	34.15	26.904	115.7	0.781	450	5.99	34.15	26.904	115.7	0.781	450	5.99	34.15	26.904	115.7	0.781
500	6.33	34.26	26.947	111.6	0.829	500	5.43	34.17	26.989	107.7	0.840	500	5.43	34.17	26.989	107.7	0.840	500	5.43	34.17	26.989	107.7	0.840
550	6.07	34.27	26.989	107.7	0.888	550	5.15	34.21	27.054	101.5	0.896	550	5.15	34.21	27.054	101.5	0.896	550	5.15	34.21	27.054	101.5	0.896
600	5.82	34.29	27.036	103.2	0.944	600	4.90	34.27	27.130	94.3	0.948	600	4.90	34.27	27.130	94.3	0.948	600	4.90	34.27	27.130	94.3	0.948
700	5.33	34.33	27.127	94.6	1.051	700	4.72	34.36	27.221	85.6	1.045	700	4.72	34.36	27.221	85.6	1.045	700	4.72	34.36	27.221	85.6	1.045
800	4.83	34.37	27.217	86.0	1.150	800	4.42	34.39	27.278	80.2	1.135	800	4.42	34.39	27.278	80.2	1.135	800	4.42	34.39	27.278	80.2	1.135
900	4.49	34.40	27.279	80.2	1.242	900	4.13	34.42	27.333	75.0	1.221	900	4.13	34.42	27.333	75.0	1.221	900	4.13	34.42	27.333	75.0	1.221
1000	4.14	34.44	27.348	73.6	1.328	1000	3.87	34.46	27.392	69.5	1.302	1000	3.87	34.46	27.392	69.5	1.302	1000	3.87	34.46	27.392	69.5	1.302

RV DAVID STARR JORDAN										CALCOFI CRUISE 7510										77080											
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
34 03.0N		122 56.5W		11/ 6/ 75		0304		4213M		260 10KT						34 03.0N		122 56.5W		11/06/75		0132 GMT									
Z	T	S	O2	PD4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	Z	T	S	O2	SIGT	DT	DD	Z	T	S	O2	SIGT	DT	DD		
1	14.91	33.270	6.01					327.2	0	14.91	33.270	6.01	24.680	327.2	0.000	1	14.91	33.270	6.01	24.680	327.2	0.000	1	14.91	33.270	6.01	24.680	327.2	0.000		
11	14.84	33.315	6.03					322.4	10	14.84	33.310	6.02	24.724	322.9	0.032	11	14.84	33.310	6.02	24.724	322.9	0.032	11	14.84	33.310	6.02	24.724	322.9	0.032		
30	15.09	33.515	5.92					312.9	20	14.95	33.396	5.95	24.765	319.0	0.064	30	15.09	33.515	5.92	24.829	312.9	0.096	30	15.09	33.515	5.92	24.829	312.9	0.096		
52	10.79	32.853	6.48					281.1	30	15.09	33.515	5.92	24.829	312.9	0.096	52	10.79	32.853	6.48	24.829	312.9	0.096	52	10.79	32.853	6.48	24.829	312.9	0.096		
67	10.59	33.131	5.82					257.2	50	11.18	32.898	6.45	25.128	284.5	0.156	67	10.59	33.131	5.82	24.829	312.9	0.096	67	10.59	33.131	5.82	24.829	312.9	0.096		
80	9.96	33.170	5.53					244.1	75	10.22	33.154	5.64	25.494	249.7	0.223	80	9.96	33.170	5.53	24.829	312.9	0.096	80	9.96	33.170	5.53	24.829	312.9	0.096		
94	9.28	33.462	4.77					211.9	100	9.12	33.554	4.50	25.987	202.8	0.280	94	9.28	33.462	4.77	24.829	312.9	0.096	94	9.28	33.462	4.77	24.829	312.9	0.096		
121	8.89	33.775	3.70					182.7	125	8.87	33.809	3.53	26.226	180.0	0.328	121	8.89	33.775	3.70	24.829	312.9	0.096	121	8.89	33.775	3.70	24.829	312.9	0.096		
145	8.77	33.922	2.90					170.0	150	8.69	33.935	2.91	26.353	168.0	0.372	145	8.77	33.922	2.90	24.829	312.9	0.096	145	8.77	33.922	2.90	24.829	312.9	0.096		
168	8.39	33.957	2.95					161.9	200	7.93	33.990	2.67	26.513	152.9	0.454	168	8.39	33.957	2.95	24.829	312.9	0.096	168	8.39	33.957	2.95	24.829	312.9	0.096		
200	7.93	33.990	2.67					152.9	250	7.26	34.015	2.33	26.628	142.0	0.530	200	7.93	33.990	2.67	24.829	312.9	0.096	200	7.93	33.990	2.67	24.829	312.9	0.096		
258	7.17	34.018	2.27					140.5	300	6.92	34.077	1.67	26.724	132.8	0.601	258	7.17	34.018	2.27	24.829	312.9	0.096	258	7.17	34.018	2.27	24.829	312.9	0.096		
350	6.69	34.140	1.00					125.1	400	6.22	34.142	0.80	26.868	119.2	0.732	350	6.69	34.140	1.00	24.829	312.9	0.096	350	6.69	34.140	1.00	24.829	312.9	0.096		
440	5.84	34.139	0.76					114.7	500	5.39	34.180	0.55	27.001	106.5	0.850	440	5.84	34.139	0.76	24.829	312.9	0.096	440	5.84	34.139	0.76	24.829	312.9	0.096		
535	5.18	34.212	0.44					101.7	600	4.90	34.273	0.30	27.132	94.1	0.957	535	5.18	34.212	0.44	24.829	312.9	0.096	535	5.18	34.212	0.44	24.829	312.9	0.096		
653	4.74	34.320	0.25					88.8	700	4.63	34.349	0.27	27.223	85.5	1.054	653	4.74	34.320	0.25	24.829	312.9	0.096	653	4.74	34.320	0.25	24.829	312.9	0.096		
795	4.43	34.391	0.38					80.2	800	4.41	34.393	0.38	27.281	80.0	1.144	795	4.43	34.391	0.38	24.829	312.9	0.096	795	4.43	34.391	0.38	24.829	312.9	0.096		

80052		RV DAV ID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 25.0N	120 36.0W	11/04/75	1708 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
260M	310	20KT	4		
Z	T	S	SIGMA T	DT	DD
0	12.95	33.57	25.316	266.6	0.000
10	12.93	33.57	25.320	266.2	0.026
20	11.93	33.51	25.467	252.3	0.052
30	11.12	33.59	25.677	232.2	0.076
40	10.81	33.64	25.772	223.2	0.099
50	10.74	33.66	25.800	220.6	0.122
75	10.51	33.69	25.863	214.6	0.176
100	10.14	33.72	25.950	206.3	0.229
125	9.93	33.77	26.025	199.2	0.281
150	9.38	33.88	26.201	182.4	0.329
175	8.82	33.99	26.377	165.7	0.373
200	8.31	34.05	26.503	153.8	0.414
225	7.94	34.08	26.582	146.3	0.453

CALCOFI CRUISE 7510		80053			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 22.5N	120 40.0W	11/04/75	1820 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
501M	320	20KT	4	270 6 10	
Z	T	S	SIGMA T	DT	DD
0	13.07	33.57	25.292	268.8	0.000
10	13.04	33.56	25.291	269.0	0.026
20	12.79	33.56	25.340	264.3	0.053
30	11.83	33.57	25.532	246.1	0.079
40	10.99	33.62	25.724	227.8	0.102
50	10.47	33.66	25.847	216.1	0.125
75	9.93	33.78	26.033	198.5	0.177
100	9.51	33.87	26.172	185.2	0.225
125	9.28	33.92	26.249	177.9	0.271
150	9.07	33.97	26.322	171.0	0.316
175	8.84	34.01	26.389	164.6	0.358
200	8.66	34.05	26.449	158.9	0.400
225	8.32	34.07	26.517	152.5	0.439
250	7.99	34.09	26.582	146.3	0.478
275	7.80	34.09	26.610	143.6	0.515
300	7.50	34.07	26.638	141.0	0.552
350	7.17	34.15	26.747	130.6	0.623
400	6.62	34.20	26.862	119.7	0.688

80054		RV DAV ID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 21.0N	120 44.5W	11/04/75	1931 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
648M	340	18KT	2		
Z	T	S	SIGMA T	DT	DD
0	13.07	33.47	25.215	276.2	0.000
10	12.03	33.46	25.216	276.2	0.027
20	12.72	33.48	25.292	268.9	0.054
30	12.73	33.52	25.321	266.1	0.081
40	12.20	33.51	25.415	257.1	0.107
50	11.10	33.51	25.619	237.8	0.132
75	10.10	33.72	25.957	205.6	0.188
100	9.75	33.80	26.078	194.1	0.239
125	9.42	33.91	26.218	180.8	0.286
150	9.15	33.99	26.325	170.7	0.331
175	8.84	34.00	26.382	165.3	0.373
200	8.52	34.06	26.478	156.1	0.414
225	8.26	34.07	26.526	151.6	0.454
250	8.02	34.09	26.577	146.7	0.492
275	7.75	34.10	26.625	142.2	0.529
300	7.60	34.10	26.647	140.1	0.566
350	7.30	34.13	26.713	133.8	0.637
400	6.86	34.17	26.806	125.0	0.705
450	6.32	34.22	26.917	114.5	0.768
500	5.98	34.26	26.992	107.4	0.826
550	5.81	34.28	27.029	103.8	0.883

CALCOFI CRUISE 7510		80055			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 19.0N	120 48.0W	11/04/75	2048 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
778M	340	20KT	2		
Z	T	S	SIGMA T	DT	DD
0	13.85	33.42	25.019	294.9	0.000
10	13.83	33.42	25.023	294.5	0.029
20	13.81	33.42	25.027	294.1	0.058
30	12.80	33.30	25.138	283.6	0.087
40	11.83	33.30	25.323	266.0	0.115
50	11.48	33.31	25.395	259.1	0.141
75	10.29	33.66	25.878	213.2	0.201
100	9.55	33.85	26.150	187.3	0.251
125	9.24	33.92	26.255	177.3	0.297
150	9.11	33.95	26.300	173.1	0.342
175	8.81	34.01	26.394	164.1	0.385
200	8.61	34.05	26.457	158.2	0.426
225	8.31	34.08	26.526	151.6	0.466
250	7.93	34.07	26.575	146.9	0.504
275	7.45	34.06	26.637	141.1	0.541
300	7.25	34.07	26.673	137.6	0.577
350	7.01	34.14	26.762	129.2	0.646
400	6.51	34.15	26.837	122.1	0.712
450	6.22	34.21	26.922	114.0	0.774
500	5.96	34.26	26.995	107.1	0.832
550	5.58	34.27	27.050	101.9	0.888
600	5.45	34.31	27.097	97.4	0.941
700	4.93	34.35	27.190	88.6	1.042

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

80060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
34 09.0N	121 09.0W	11/ 5/75	0107 GMT	2222M	310	19KT	2								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	13.51	33.425	6.24					287.9	0	13.51	33.425	6.24	25.092	287.9	0.000
11	13.45	33.424	6.27					286.8	10	13.46	33.427	6.26	25.102	286.9	0.028
29	13.04	33.520	5.92					271.9	20	13.25	33.469	6.10	25.176	279.9	0.057
52	12.16	33.551	5.96					264.4	30	13.02	33.520	5.92	25.261	271.8	0.084
66	11.16	33.424	5.07					245.1	50	12.78	33.545	5.95	25.328	265.4	0.138
80	10.22	33.505	4.62					223.5	75	10.48	33.462	4.76	25.689	231.1	0.201
94	9.84	33.652	3.99					206.5	100	9.72	33.690	3.83	25.996	201.9	0.255
121	9.32	33.780	3.42					188.9	125	9.20	33.802	3.31	26.169	185.5	0.304
144	8.65	33.894	2.87					170.4	150	8.52	33.912	2.79	26.362	167.2	0.349
168	8.23	33.947	2.67					160.3	200	7.92	33.973	2.61	26.499	154.1	0.431
201	7.92	33.973	2.61					154.0	250	7.20	33.974	2.50	26.603	144.3	0.507
260	7.06	33.974	2.46					142.3	300	6.70	34.024	1.91	26.712	134.0	0.579
353	6.35	34.099	1.12					123.9	400	6.00	34.132	0.82	26.888	117.2	0.709
446	5.69	34.156	0.67					111.7	500	5.39	34.193	0.49	27.011	105.6	0.826
544	5.19	34.225	0.39					100.8	600	4.92	34.272	0.30	27.129	94.4	0.933
665	4.66	34.325	0.27					87.6	700	4.57	34.346	0.28	27.227	85.1	1.029
810	4.33	34.399	0.35					78.6	800	4.34	34.395	0.34	27.290	79.1	1.119
956	3.86	34.453	0.54					69.9	1000	3.77	34.460		27.402	68.5	1.283

80060

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

80070

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
34 09.0N	121 09.0W	11/04/75	2337 GMT	33 48.5N	121 51.0W	11/05/75	0544 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
2222M	310	19KT	2		3731M	350	13KT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.40	33.43	25.118	285.4	0.000	0	14.41	33.44	24.917	304.5	0.000
10	13.32	33.45	25.150	282.4	0.028	10	14.41	33.44	24.917	304.5	0.030
20	13.15	33.48	25.207	276.9	0.056	20	14.38	33.44	24.924	303.9	0.060
30	13.05	33.50	25.242	273.6	0.084	30	14.35	33.44	24.930	303.3	0.091
40	12.93	33.56	25.312	266.9	0.111	40	14.34	33.44	24.932	303.1	0.121
50	12.64	33.54	25.354	263.0	0.137	50	14.28	33.42	24.929	303.4	0.152
75	10.65	33.49	25.683	231.6	0.199	75	10.56	33.28	25.536	245.7	0.221
100	9.68	33.68	25.996	201.9	0.254	100	9.84	33.53	25.853	215.5	0.279
125	9.22	33.82	26.181	184.4	0.303	125	9.46	33.83	26.149	187.4	0.330
150	8.47	33.94	26.392	164.3	0.347	150	8.69	33.87	26.304	172.7	0.375
175	8.13	33.98	26.475	156.4	0.388	175	8.31	33.95	26.424	161.2	0.418
200	7.77	33.99	26.536	150.7	0.427	200	7.90	33.98	26.509	153.2	0.458
225	7.29	33.99	26.605	144.1	0.465	225	7.52	33.98	26.564	148.0	0.497
250	6.98	34.01	26.664	138.5	0.501	250	7.07	33.98	26.628	142.0	0.534
275	6.68	34.02	26.712	133.9	0.536	275	6.68	34.02	26.712	133.9	0.569
300	6.45	34.04	26.758	129.5	0.570	300	6.83	34.09	26.747	130.6	0.603
350	6.47	34.16	26.850	120.8	0.635	350	6.53	34.15	26.834	122.3	0.669
400	5.92	34.15	26.913	114.9	0.697	400	6.34	34.23	26.922	114.0	0.731
450	5.69	34.17	26.957	110.7	0.756	450	6.03	34.25	26.978	108.7	0.789
500	5.51	34.21	27.011	105.6	0.813	500	5.82	34.28	27.028	103.9	0.846
550	5.05	34.25	27.097	97.4	0.867	550	5.50	34.29	27.075	99.5	0.900
600	4.87	34.29	27.149	92.5	0.917	600	5.27	34.32	27.127	94.6	0.952
700	4.48	34.36	27.248	83.1	1.012	700	4.81	34.37	27.219	85.8	1.049
800	4.23	34.40	27.307	77.5	1.100	800	4.49	34.40	27.279	80.2	1.140
900	3.96	34.45	27.375	71.1	1.182	900	4.23	34.43	27.330	75.3	1.226
1000	3.72	34.47	27.415	67.3	1.259	1000	4.04	34.46	27.374	71.1	1.309

80080

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

80090

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 28.0N	122 31.5W	11/05/75	1033 GMT	33 09.0N	123 13.0W	11/05/75	1534 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3926M	320	11KT			4212M	340	5KT	2			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.97	33.30	24.690	326.2	0.000	0	15.06	33.01	24.448	349.3	0.000
10	14.97	33.30	24.690	326.2	0.032	10	15.03	33.01	24.454	348.7	0.034
20	14.97	33.30	24.690	326.2	0.065	20	14.59	33.08	24.602	334.5	0.069
30	14.94	33.30	24.696	325.6	0.097	30	14.51	33.22	24.727	323.7	0.102
40	14.61	33.30	24.767	318.8	0.130	40	14.41	33.29	24.802	315.5	0.134
50	14.21	33.28	24.836	312.3	0.161	50	13.06	33.13	24.955	301.0	0.165
75	11.16	33.01	25.221	275.7	0.235	75	11.14	33.05	25.255	272.4	0.237
100	9.86	33.14	25.546	244.7	0.301	100	9.94	33.19	25.572	242.3	0.301
125	9.53	33.59	25.951	206.2	0.358	125	9.49	33.48	25.872	213.8	0.359
150	9.23	33.80	26.163	186.0	0.407	150	8.98	33.72	26.141	188.2	0.410
175	8.73	33.93	26.344	168.9	0.453	175	8.79	33.86	26.280	175.0	0.456
200	8.12	33.97	26.469	157.0	0.494	200	8.31	33.91	26.393	164.2	0.499
225	7.77	33.99	26.536	150.7	0.534	225	8.02	33.98	26.491	154.9	0.540
250	7.38	34.01	26.608	143.8	0.571	250	7.63	34.02	26.580	146.5	0.579
275	7.23	34.04	26.652	139.6	0.608	275	7.15	34.00	26.632	141.5	0.616
300	6.96	34.04	26.690	136.0	0.643	300	6.87	34.01	26.679	137.1	0.652
350	6.51	34.07	26.774	128.1	0.712	350	6.62	34.10	26.783	127.2	0.720
400	5.77	34.05	26.853	120.6	0.777	400	6.03	34.10	26.860	119.9	0.785
450	5.53	34.10	26.922	114.1	0.838	450	5.67	34.13	26.928	113.4	0.846
500	5.17	34.14	26.996	107.0	0.896	500	5.48	34.19	26.999	106.7	0.904
550	4.99	34.18	27.049	102.0	0.951	550	5.17	34.22	27.059	101.0	0.959
600	5.02	34.27	27.116	95.6	1.004	600	5.03	34.26	27.107	96.4	1.011
700	4.85	34.37	27.215	86.3	1.102	700	4.60	34.33	27.211	86.6	1.110
800	4.47	34.40	27.281	80.0	1.193	800	4.23	34.38	27.291	79.0	1.200
900	4.08	34.42	27.339	74.5	1.278	900	4.03	34.42	27.344	74.0	1.285
1000	3.89	34.47	27.398	68.9	1.359	1000	3.78	34.45	27.393	69.4	1.365

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81043

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 24.0N	119 48.0W	10/26/75	0807 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34M	280	2KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.46	33.64	24.844	311.5	0.000	
5	15.34	33.63	24.863	309.7	0.015	
10	15.15	33.62	24.896	306.5	0.030	
20	14.41	33.58	25.025	294.3	0.061	
25	14.30	33.59	25.056	291.3	0.075	

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81044

CALCOFI CRUISE 7510

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 23.0N	119 50.0W	10/26/75	0918 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
60M	080	4KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.57	33.62	24.804	315.3	0.000	
10	14.91	33.61	24.941	302.3	0.030	
20	13.89	33.59	25.142	283.2	0.060	
30	13.39	33.55	25.213	276.4	0.088	
40	12.16	33.55	25.454	253.4	0.114	
50	11.55	33.58	25.592	240.4	0.139	

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81044

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 22.0N	119 52.0W	10/26/75	1029 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
78M	280	5KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.61	33.64	24.810	314.7	0.000	
10	15.44	33.63	24.840	311.8	0.031	
20	14.39	33.58	25.029	293.9	0.061	
30	13.03	33.55	25.285	269.5	0.089	
40	12.32	33.54	25.416	257.1	0.116	
50	11.67	33.57	25.562	243.2	0.141	
58	11.18	33.60	25.675	232.5	0.160	

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81045

CALCOFI CRUISE 7510

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 21.0N	119 54.0W	10/26/75	1133 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
371M	210	2KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.67	33.64	24.797	316.0	0.000	
10	15.65	33.63	24.794	316.3	0.031	
20	15.29	33.61	24.858	310.1	0.063	
30	13.36	33.51	25.188	278.8	0.092	
40	12.33	33.53	25.406	258.0	0.119	
50	11.66	33.56	25.556	243.8	0.144	
75	10.65	33.66	25.816	219.1	0.202	
100	10.22	33.75	25.960	205.4	0.256	
125	9.86	33.82	26.075	194.4	0.306	
150	9.55	33.89	26.182	184.3	0.355	
175	9.23	33.98	26.304	172.7	0.400	
200	9.06	34.02	26.362	167.1	0.443	
225	8.86	34.06	26.425	161.1	0.485	
250	8.61	34.10	26.496	154.5	0.526	
275	8.17	34.13	26.586	145.9	0.565	
300	7.49	34.17	26.718	133.4	0.601	

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81046

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 19.0N	119 58.0W	10/26/75	1319 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
537M	270	5KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.80	33.64	24.768	318.8	0.000	
10	15.80	33.64	24.768	318.8	0.031	
20	15.66	33.63	24.791	316.5	0.063	
30	12.59	33.55	25.172	280.3	0.093	
40	12.59	33.51	25.341	264.2	0.120	
50	11.95	33.53	25.478	251.1	0.146	
75	10.47	33.67	25.855	215.4	0.205	
100	9.87	33.79	26.050	196.8	0.257	
125	9.50	33.88	26.182	184.3	0.305	
150	9.28	33.96	26.280	174.9	0.351	
175	9.14	34.01	26.342	169.1	0.395	
200	8.91	34.06	26.417	161.9	0.437	
225	8.71	34.10	26.480	155.9	0.478	
250	8.53	34.12	26.524	151.8	0.517	
275	8.21	34.13	26.580	146.4	0.556	
300	7.84	34.16	26.659	139.0	0.593	
350	7.28	34.19	26.763	129.1	0.662	
400	6.82	34.21	26.843	121.5	0.728	
450	6.44	34.23	26.909	115.2	0.790	
500	6.33	34.24	26.932	113.1	0.851	

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81047

CALCOFI CRUISE 7510

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 17.0N	120 02.5W	10/26/75	1528 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
584M	290	20KT	0			
Z	T	S	SIGMA T	DT	DD	
0	14.80	33.59	24.949	301.5	0.000	
10	14.77	33.59	24.956	300.9	0.030	
20	13.11	33.56	25.277	270.3	0.058	
30	12.80	33.55	25.330	265.2	0.085	
40	12.56	33.55	25.377	260.8	0.111	
50	12.11	33.52	25.441	254.7	0.137	
75	10.53	33.67	25.844	216.4	0.197	
100	9.83	33.75	26.026	199.1	0.249	
125	9.52	33.88	26.179	184.6	0.298	
150	9.12	34.00	26.337	169.5	0.342	
175	8.99	34.04	26.389	164.6	0.385	
200	8.78	34.06	26.438	160.0	0.427	
225	8.61	34.09	26.488	155.2	0.467	
250	8.35	34.13	26.559	148.5	0.506	
275	8.01	34.14	26.618	142.8	0.544	
300	7.78	34.16	26.668	138.1	0.580	
350	7.24	34.19	26.769	128.6	0.649	
400	6.82	34.21	26.843	121.5	0.715	
450	6.49	34.23	26.902	115.9	0.777	
500	6.38	34.24	26.925	113.7	0.838	

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83039

RV DAVID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 14.5N	119 19.5W	10/25/75	1921 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
19M	280	11KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.74	33.64	24.781	317.5	0.000	
5	15.60	33.64	24.813	314.5	0.015	
10	15.36	33.63	24.858	310.2	0.031	
15	14.64	33.57	24.968	299.7	0.046	

6
83040

CALCOFI CRUISE 7510

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
34 12.5N	119 24.5W	10/25/75	2050 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
48M	280	12KT	0			
Z	T	S	SIGMA T	DT	DD	
0	15.31	33.59	24.838	312.0	0.000	
10	14.92	33.59	24.924	303.9	0.030	
20	14.24	33.54	25.030	293.8	0.060	
30	12.15	33.53	25.441	254.7	0.088	
40	11.70	33.56	25.548	244.5	0.113	

83041		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 11.5N	119 26.0W	10/25/75	2150 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
69M	270	10KT	0		
Z	T	S	SIGMA T	DT	DD
0	15.80	33.61	24.745	321.0	0.000
10	15.54	33.60	24.795	316.1	0.031
20	14.26	33.55	25.034	293.5	0.062
30	12.88	33.50	25.276	270.4	0.090
40	11.74	33.49	25.487	250.3	0.116
50	11.20	33.60	25.671	232.8	0.141

CALCOFI CRUISE 7510		83042			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 09.5N	119 30.0W	10/25/75	2307 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
211M	270	13KT	0		
Z	T	S	SIGMA T	DT	DD
0	15.46	33.59	24.805	315.2	0.000
10	14.96	33.55	24.884	307.7	0.031
20	14.17	33.48	24.998	296.8	0.061
30	13.62	33.51	25.135	283.8	0.090
40	12.50	33.51	25.358	262.6	0.117
50	11.93	33.57	25.513	247.8	0.143
75	10.69	33.66	25.808	219.7	0.202
100	9.94	33.76	26.015	200.1	0.255
125	9.67	33.83	26.115	190.6	0.304
150	9.26	33.94	26.268	176.1	0.351
175	8.73	34.04	26.430	160.7	0.394

83043		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 08.0N	119 34.0W	10/26/75	0051 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
242M	260	18KT	0		
Z	T	S	SIGMA T	DT	DD
0	15.59	33.62	24.799	315.8	0.000
10	15.53	33.61	24.805	315.2	0.031
20	15.27	33.60	24.855	310.5	0.062
30	14.96	33.59	24.915	304.8	0.093
40	14.62	33.58	24.980	298.5	0.124
50	12.79	33.53	25.317	266.5	0.152
75	11.67	33.54	25.538	245.4	0.216
100	10.38	33.71	25.901	210.9	0.274
125	8.93	34.01	26.375	165.9	0.321
150	8.70	34.06	26.450	158.8	0.363
175	8.61	34.09	26.488	155.2	0.403
200	8.51	34.12	26.527	151.5	0.442

CALCOFI CRUISE 7510		83044			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 05.5N	119 38.0W	10/26/75	0245 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
177M	270	23KT	0		
Z	T	S	SIGMA T	DT	DD
0	15.04	33.56	24.875	308.6	0.000
10	14.95	33.56	24.894	306.7	0.030
20	14.44	33.49	24.949	301.5	0.061
30	13.86	33.40	25.001	296.5	0.091
40	12.77	33.33	25.166	280.8	0.120
50	12.41	33.49	25.360	262.4	0.147
75	10.62	33.57	25.751	225.2	0.208
100	9.91	33.79	26.044	197.4	0.262
125	9.28	33.95	26.272	175.7	0.309
150	9.05	34.02	26.364	167.0	0.352

83044		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 04.0N	119 41.0W	10/26/75	0404 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
90M	260	22KT	0		
Z	T	S	SIGMA T	DT	DD
0	15.02	33.57	24.886	307.5	0.000
10	14.89	33.56	24.907	305.5	0.030
20	14.10	33.45	24.990	297.6	0.060
30	12.62	33.44	25.081	288.9	0.090
40	12.27	33.45	25.160	281.4	0.118
50	12.68	33.47	25.292	268.9	0.146
75	10.47	33.69	25.870	213.9	0.207

CALCOFI CRUISE 7510		83045			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 03.5N	119 42.5W	10/26/75	0510 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
84M	270	20KT	0		
Z	T	S	SIGMA T	DT	DD
0	14.94	33.56	24.896	306.5	0.000
10	14.85	33.55	24.908	305.4	0.030
20	14.13	33.47	24.999	296.7	0.060
30	14.06	33.47	25.014	295.4	0.090
40	13.51	33.47	25.127	284.6	0.119
50	12.76	33.48	25.284	269.6	0.147
75	10.62	33.71	25.860	214.9	0.208

83051		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 52.0N	120 08.5W	10/26/75	2136 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
187M	310	19KT			
Z	T	S	SIGMA T	DT	DD
0	14.87	33.59	24.934	302.9	0.000
10	14.81	33.59	24.947	301.7	0.030
20	13.99	33.56	25.098	287.4	0.059
30	13.57	33.55	25.176	279.9	0.088
40	12.44	33.55	25.203	277.4	0.116
50	12.31	33.55	25.229	274.9	0.143
75	11.93	33.53	25.482	250.8	0.209
100	10.25	33.71	25.924	208.8	0.267
125	10.17	33.73	25.953	206.0	0.320
150	9.98	33.77	26.016	200.0	0.371

CALCOFI CRUISE 7510		83055			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 44.0N	120 24.5W	10/26/75	2343 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
888M	310	13KT	2		
Z	T	S	SIGMA T	DT	DD
0	14.52	33.56	24.986	298.0	0.000
10	14.34	33.56	25.024	294.3	0.029
20	13.19	33.54	25.246	273.3	0.058
30	12.29	33.52	25.406	258.0	0.084
40	11.44	33.54	25.581	241.4	0.109
50	10.37	33.59	25.810	219.6	0.132
75	9.77	33.77	26.052	196.7	0.185
100	9.50	33.87	26.174	185.0	0.233
125	9.27	33.91	26.243	178.5	0.279
150	9.02	33.97	26.330	170.3	0.323
175	8.74	34.01	26.405	163.1	0.366
200	8.74	34.04	26.429	160.9	0.407
225	8.52	34.07	26.486	155.4	0.448
250	8.17	34.10	26.563	148.1	0.487
275	7.60	34.08	26.631	141.6	0.524
300	7.26	34.08	26.679	137.0	0.560
350	7.02	34.15	26.768	128.6	0.629
400	6.55	34.19	26.863	119.6	0.694
450	6.23	34.21	26.921	114.1	0.755
500	6.01	34.25	26.980	108.5	0.814
550	5.81	34.26	27.014	105.3	0.871
600	5.51	34.29	27.074	99.6	0.926
700	4.91	34.36	27.200	87.7	1.027
800	4.52	34.40	27.275	80.5	1.119

Table with columns: LATITUDE, LONGITUDE, MO/DAY/YR, MESSENGER TIME, BOTTOM, WIND, SPEED, WEATHER, DOMINANT WAVES, Z, T, S, O2, SIGT, DT, DD. Includes data for stations 2, 12, 31, 56, 75, 89, 102A, 131A, 155A, 183A, 217A, 287A, 386A, 488A, 591A, 717A, 867A, 1024A.

A) CAST 2

83060

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

83070

Table with columns: LATITUDE, LONGITUDE, MO/DAY/YR, START TIME, BOTTOM, WIND, SPEED, WEATHER, DOMINANT WAVES, Z, T, S, SIGMA T, DT, DD. Includes data for stations 0, 10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 700, 800, 900, 1000.

83080

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

83090

Table with columns: LATITUDE, LONGITUDE, MO/DAY/YR, START TIME, BOTTOM, WIND, SPEED, WEATHER, DOMINANT WAVES, Z, T, S, SIGMA T, DT, DD. Includes data for stations 0, 10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 700, 800, 900, 1000.

85037² RV DAVID STARR JORDAN CALCOFI CRUISE 7510 85037⁵

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
34 02.5N	118 59.0W	10/25/75	1035 GMT	34 02.0N	118 59.5W	10/25/75	1141 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34M	030	14KT	0		67M	030	4KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.34	33.60	24.839	311.9	0.000	0	15.47	33.60	24.811	314.7	0.000
10	15.09	33.60	24.894	306.7	0.030	10	15.46	33.60	24.813	314.5	0.031
20	17.84	33.50	25.284	269.6	0.059	20	14.39	33.53	24.991	297.5	0.062
30	12.21	33.51	25.414	257.3	0.086	30	12.34	33.44	25.335	264.8	0.090
						40	11.71	33.51	25.508	248.4	0.116
						50	11.37	33.57	25.617	238.0	0.140
						60	11.21	33.60	25.669	233.0	0.164

85038 RV DAVID STARR JORDAN CALCOFI CRUISE 7510 85039

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
34 01.0N	119 02.5W	10/25/75	1249 GMT	33 59.0N	119 06.5W	10/25/75	1422 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
229M	030	10KT	0		713M	360	14KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.89	33.60	24.717	323.6	0.000	0	17.32	33.72	24.477	346.4	0.000
10	15.80	33.59	24.730	322.4	0.032	10	17.23	33.73	24.506	343.7	0.034
20	14.84	33.55	24.910	305.2	0.063	20	17.23	33.73	24.506	343.7	0.068
30	17.78	33.43	25.242	273.7	0.092	30	15.89	33.73	24.817	314.1	0.101
40	11.88	33.44	25.422	256.5	0.119	40	13.19	33.43	25.161	281.4	0.131
50	11.64	33.49	25.505	248.6	0.144	50	12.01	33.45	25.405	258.1	0.158
75	10.76	33.60	25.749	225.4	0.204	75	10.99	33.59	25.701	230.0	0.220
100	10.48	33.66	25.845	216.3	0.260	100	10.03	33.71	25.961	205.3	0.275
125	10.08	33.72	25.961	205.3	0.313	125	9.61	33.83	26.125	189.7	0.325
150	9.48	33.88	26.185	184.0	0.362	150	9.27	33.93	26.258	177.0	0.371
175	9.07	33.98	26.330	170.3	0.407	175	9.10	33.96	26.309	172.2	0.416
200	8.96	34.03	26.386	164.9	0.450	200	8.92	34.05	26.408	162.8	0.458
						225	8.68	34.08	26.469	157.0	0.499
						250	8.50	34.14	26.544	149.9	0.539
						275	8.24	34.15	26.592	145.4	0.577
						300	8.09	34.17	26.630	141.7	0.614
						350	7.72	34.20	26.708	134.3	0.686
						400	7.14	34.23	26.814	124.2	0.754
						450	6.84	34.24	26.863	119.6	0.818
						500	6.31	34.28	26.966	109.9	0.879
						600	5.78	34.31	27.057	101.2	0.992

85040 RV DAVID STARR JORDAN CALCOFI CRUISE 7510 87032⁵

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 57.0N	119 10.5W	10/25/75	1605 GMT	33 53.5N	118 26.5W	10/24/75	2321 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
741M	340	14KT	0		21M	270	9KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.12	33.72	24.525	341.9	0.000	0	14.58	33.53	24.950	301.4	0.000
10	17.11	33.72	24.527	341.7	0.034	5	14.08	33.50	25.033	293.5	0.014
20	17.08	33.71	24.526	341.7	0.068	10	14.05	33.49	25.031	293.7	0.029
30	13.94	33.49	25.054	291.5	0.100	15	14.05	33.50	25.039	292.9	0.044
40	17.19	33.48	25.394	259.1	0.127						
50	11.55	33.51	25.537	245.5	0.153						
75	10.56	33.64	25.816	219.1	0.211						
100	9.73	33.79	26.074	194.5	0.263						
125	9.36	33.89	26.213	181.4	0.311						
150	9.16	33.94	26.284	174.6	0.356						
175	8.95	33.99	26.356	167.7	0.400						
200	8.81	34.05	26.425	161.1	0.442						
225	8.56	34.12	26.519	152.3	0.482						
250	8.29	34.15	26.584	146.1	0.520						
275	8.12	34.16	26.617	142.9	0.557						
300	7.93	34.18	26.661	138.7	0.594						
350	7.46	34.20	26.745	130.8	0.664						
400	6.93	34.23	26.843	121.5	0.730						
450	6.59	34.26	26.913	114.9	0.792						
500	6.12	34.29	26.998	106.8	0.851						
550	5.89	34.30	27.035	103.3	0.907						
600	5.59	34.33	27.096	97.5	0.961						
650	5.39	34.35	27.136	93.7	1.013						

87032⁷ RV DAVID STARR JORDAN CALCOFI CRUISE 7510 87033

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 54.5N	118 28.0W	10/25/75	0020 GMT	33 54.0N	118 29.0W	10/25/75	0133 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28M	280	12KT	0		50M	270	16KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.43	33.53	24.766	318.9	0.000	0	15.01	33.52	24.850	310.9	0.000
5	14.78	33.52	24.900	306.2	0.015	10	14.39	33.50	24.968	299.7	0.030
10	14.55	33.50	24.934	303.0	0.030	20	13.30	33.45	25.154	282.0	0.059
20	14.25	33.50	24.997	296.9	0.060	30	12.94	33.45	25.226	275.2	0.087
						40	12.29	33.47	25.368	261.7	0.114

87034		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510				87035			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 52.0N	118 33.0W	10/25/75	0305 GMT			33 50.0N	118 37.5W	10/25/75	0530 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
71M	270	12KT	0				482M	330	10KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	15.51	33.55	24.764	319.2	0.000	0	16.67	33.64	24.569	337.7	0.000		
10	15.28	33.55	24.814	314.3	0.031	10	16.61	33.64	24.583	336.3	0.033		
20	15.12	33.54	24.842	311.7	0.063	20	14.28	33.52	25.006	296.1	0.065		
30	13.98	33.48	25.038	293.0	0.093	30	12.93	33.41	25.197	277.9	0.094		
40	12.21	33.45	25.367	261.7	0.121	40	11.78	33.44	25.441	254.7	0.120		
50	12.01	33.51	25.452	253.7	0.147	50	11.25	33.51	25.592	240.3	0.145		
						75	10.49	33.65	25.836	217.2	0.203		
						100	10.07	33.69	25.939	207.4	0.256		
						125	9.61	33.81	26.109	191.2	0.307		
						150	9.25	33.91	26.246	178.2	0.354		
						175	8.99	33.98	26.342	169.0	0.398		
						200	8.85	34.03	26.404	163.2	0.440		
						225	8.52	34.06	26.478	156.1	0.481		
						250	8.38	34.10	26.531	151.1	0.521		
						275	8.25	34.14	26.582	146.3	0.559		
						300	8.11	34.15	26.611	143.5	0.596		
						350	7.78	34.19	26.691	135.9	0.669		
						400	7.41	34.21	26.760	129.3	0.739		

87036		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510				87040			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 49.0N	118 40.0W	10/25/75	0703 GMT			33 40.0N	118 58.0W	10/29/75	0751 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
833M	360	8KT	0				888M	310	10KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	17.12	33.68	24.494	344.8	0.000	0	17.09	33.67	24.493	344.9	0.000		
10	17.12	33.68	24.494	344.8	0.034	10	17.07	33.67	24.498	344.4	0.034		
20	14.83	33.49	24.866	309.4	0.067	20	15.80	33.49	24.653	329.7	0.068		
30	13.40	33.43	25.118	285.4	0.097	30	12.90	33.46	25.241	273.7	0.094		
40	12.53	33.44	25.298	268.3	0.124	40	12.03	33.50	25.440	254.8	0.124		
50	11.95	33.48	25.440	254.8	0.151	50	11.48	33.53	25.566	242.8	0.149		
75	10.74	33.60	25.753	225.0	0.211	75	10.53	33.65	25.829	217.9	0.207		
100	10.10	33.73	25.965	204.9	0.265	100	9.63	33.82	26.114	190.8	0.259		
125	9.39	33.87	26.192	183.3	0.314	125	9.25	33.89	26.230	179.7	0.306		
150	9.12	33.96	26.306	172.5	0.359	150	8.88	33.95	26.336	169.6	0.350		
175	8.75	34.00	26.396	164.0	0.402	175	8.67	33.99	26.400	163.5	0.393		
200	8.62	34.07	26.471	156.9	0.443	200	8.30	34.03	26.489	155.1	0.433		
225	8.29	34.10	26.545	149.8	0.483	225	8.09	34.07	26.551	149.2	0.472		
250	8.09	34.12	26.591	145.5	0.521	250	7.86	34.11	26.617	143.0	0.510		
275	7.97	34.14	26.624	142.3	0.558	275	7.69	34.14	26.665	138.4	0.546		
300	7.94	34.16	26.644	140.4	0.594	300	7.49	34.15	26.702	134.9	0.581		
350	7.62	34.19	26.715	133.7	0.665	350	7.08	34.21	26.807	124.9	0.649		
400	7.25	34.21	26.783	127.2	0.734	400	6.64	34.26	26.906	115.5	0.712		
450	6.84	34.23	26.855	120.3	0.799	450	6.38	34.27	26.948	111.5	0.772		
500	6.40	34.26	26.938	112.5	0.861	500	6.13	34.29	26.997	106.9	0.830		
550	6.06	34.28	26.998	106.8	0.919	550	5.86	34.30	27.039	102.9	0.886		
600	5.70	34.31	27.067	100.3	0.975	600	5.61	34.33	27.093	97.8	0.940		
700	5.31	34.35	27.145	92.8	1.079	700	5.31	34.36	27.153	92.1	1.042		
750	5.20	34.36	27.166	90.8	1.129	750	5.22	34.37	27.172	90.3	1.092		

87045		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510				87050			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 29.0N	119 19.0W	10/29/75	0430 GMT			33 20.0N	119 39.5W	10/29/75	0034 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
1664M	290	7KT	0				84M	290	6KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	16.43	33.66	24.640	330.9	0.000	0	15.55	33.57	24.770	318.5	0.000		
10	16.26	33.65	24.671	327.9	0.032	10	14.99	33.57	24.893	306.8	0.031		
20	14.80	33.55	24.919	304.4	0.064	20	14.89	33.57	24.915	304.8	0.061		
30	13.30	33.53	25.216	276.1	0.093	30	14.67	33.53	24.931	303.2	0.092		
40	11.25	33.55	25.623	237.4	0.119	40	11.73	33.43	25.442	254.6	0.120		
50	10.91	33.59	25.715	228.6	0.142	50	10.96	33.52	25.652	234.6	0.144		
75	9.98	33.74	25.993	202.2	0.197								
100	9.59	33.83	26.128	189.4	0.246	64	10.44	33.64	25.837	217.1	0.176		
125	9.28	33.92	26.249	177.9	0.292								
150	8.83	34.01	26.391	164.4	0.336								
175	8.69	34.04	26.436	160.1	0.377								
200	8.36	34.06	26.503	153.8	0.417								
225	8.26	34.10	26.549	149.4	0.456								
250	8.08	34.12	26.592	145.3	0.494								
275	7.84	34.16	26.659	139.0	0.531								
300	7.62	34.17	26.699	135.2	0.566								
350	7.18	34.21	26.793	126.3	0.634								
400	6.87	34.24	26.859	120.0	0.699								
450	6.45	34.26	26.932	113.1	0.760								
500	6.09	34.29	27.002	106.4	0.818								
550	5.91	34.30	27.033	103.5	0.874								
600	5.63	34.32	27.083	98.7	0.929								
700	5.00	34.38	27.206	87.1	1.029								
800	4.57	34.41	27.278	80.3	1.121								
900	4.33	34.43	27.320	76.3	1.208								
1000	4.22	34.44	27.339	74.4	1.293								

87060			RV DAVID STARR JORDAN				CALCOFI CRUISE 7510						87070		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
33 00.0N	120 21.5W	10/28/75	1832 GMT			32 39.0N	121 02.5W	10/28/75	1315 GMT						
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
780M	330	10KT	1				3926M	330	22KT	1					
Z	T	S	SIGMA T	DT	DD		Z	T	S	SIGMA T	DT	DD			
0	14.22	33.63	25.104	286.8	0.000		0	14.02	33.48	25.030	293.8	0.000			
10	14.15	33.63	25.118	285.4	0.028		10	14.02	33.48	25.030	293.8	0.029			
20	14.10	33.64	25.136	283.7	0.057		20	14.02	33.48	25.030	293.8	0.058			
30	11.60	33.56	25.567	242.7	0.083		30	14.02	33.48	25.030	293.8	0.088			
40	10.51	33.68	25.855	215.3	0.106		40	14.03	33.49	25.035	293.3	0.117			
50	10.33	33.71	25.910	210.1	0.127		50	14.01	33.49	25.040	292.9	0.147			
75	9.57	33.81	26.116	190.6	0.178		75	11.05	33.45	25.582	241.3	0.214			
100	9.20	33.91	26.254	177.4	0.224		100	10.21	33.68	25.907	210.4	0.271			
125	9.03	33.98	26.336	169.6	0.268		125	9.43	33.85	26.170	185.4	0.321			
150	8.69	34.00	26.405	163.1	0.310		150	9.09	33.94	26.295	173.5	0.366			
175	8.44	34.02	26.459	157.9	0.351		175	8.84	33.98	26.366	166.8	0.410			
200	8.02	34.04	26.538	150.4	0.391		200	8.51	34.03	26.456	158.2	0.451			
225	7.82	34.08	26.599	144.6	0.428		225	8.29	34.07	26.521	152.0	0.491			
250	7.71	34.11	26.639	140.9	0.465		250	7.97	34.07	26.569	147.5	0.529			
275	7.56	34.12	26.668	138.1	0.501		275	7.78	34.09	26.613	143.3	0.567			
300	7.44	34.15	26.709	134.2	0.536		300	7.02	34.03	26.674	137.6	0.603			
350	6.79	34.15	26.800	125.6	0.604		350	6.70	34.09	26.764	129.0	0.672			
400	6.44	34.20	26.885	117.5	0.667		400	6.42	34.16	26.857	120.2	0.737			
450	6.17	34.24	26.952	111.2	0.727		450	6.13	34.21	26.934	112.9	0.798			
500	5.87	34.26	27.006	106.1	0.785		500	5.79	34.24	27.000	106.6	0.856			
550	5.62	34.29	27.061	100.8	0.840		550	5.62	34.29	27.061	100.8	0.912			
600	5.38	34.31	27.106	96.6	0.893		600	5.46	34.31	27.096	97.5	0.965			
700	4.93	34.36	27.198	87.9	0.993		700	5.02	34.36	27.187	88.9	1.066			
							800	4.62	34.39	27.257	82.3	1.159			
							900	4.33	34.43	27.320	76.3	1.247			
							1000	3.98	34.45	27.373	71.3	1.330			

RV DAVID STARR JORDAN				CALCOFI CRUISE 7510								87080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 19.5N	121 42.0W	10/28/75	0818 GMT	3546M	330	20KT	1	Z	T	S	O2	SIGT	DT	DD	
1	16.24	33.416	5.83	344.6	0	16.24	33.416	5.83	24.497	344.6	0.000				
11	16.25	33.415	5.91	344.9	10	16.24	33.416	5.90	24.494	344.9	0.034				
30	16.02	33.381	5.89	342.4	20	16.14	33.400	5.90	24.506	343.7	0.068				
53	13.25	33.186	5.82	300.5	30	16.02	33.381	5.89	24.520	342.4	0.103				
67	13.06	33.382	6.03	282.4	50	13.60	33.195	5.82	24.895	306.7	0.168				
81	11.7	33.296	5.82	264.0	75	12.28	33.336	5.94	25.263	271.6	0.241				
95	11.40	33.417	5.48	249.8	100	11.24	33.447	5.35	25.544	244.9	0.306				
123	10.40	33.559	4.71	222.4	125	10.32	33.570	4.64	25.802	220.4	0.365				
146	9.55	33.693	4.00	198.9	150	9.43	33.730	5.87	26.075	194.4	0.417				
169	8.96	33.891	3.36	175.2	200	8.40	33.973	5.05	26.427	161.0	0.508				
202	8.38	33.973	3.05	160.5	250	7.63	34.003	4.72	26.565	147.9	0.587				
263	7.46	34.002	2.64	145.5	300	6.98	34.019	4.20	26.670	138.0	0.660				
358	6.41	34.056	1.49	127.8	400	6.21	34.107	3.08	26.841	121.7	0.795				
452	6.05	34.175	0.69	114.6	500	5.77	34.229	4.48	26.994	107.2	0.916				
549	5.48	34.276	0.36	100.3	600	5.26	34.312	4.33	27.121	95.2	1.024				
674	4.99	34.350	0.29	89.3	700	4.87	34.361	4.30	27.205	87.2	1.122				
815	4.4	34.403	0.39	79.0	800	4.45	34.399	4.37	27.281	80.0	1.214				
964	3.95	34.440	0.52	71.7	1000	3.85	34.450	4.00	27.386	70.0	1.381				

87080			RV DAVID STARR JORDAN				CALCOFI CRUISE 7510						87090		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME						
32 19.5N	121 42.0W	10/28/75	0713 GMT			32 00.0N	122 24.0W	10/28/75	0144 GMT						
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
3546M	330	20KT	1				3926M	360	17KT	1					
Z	T	S	SIGMA T	DT	DD		Z	T	S	SIGMA T	DT	DD			
0	16.31	33.42	24.484	345.8	0.000		0	16.94	33.33	24.269	366.3	0.000			
10	16.31	33.42	24.484	345.8	0.034		10	16.94	33.33	24.269	366.3	0.036			
20	16.31	33.42	24.484	345.8	0.069		20	16.94	33.33	24.269	366.3	0.073			
30	16.05	33.39	24.520	342.4	0.103		30	16.94	33.33	24.269	366.3	0.110			
40	13.80	33.19	24.852	310.8	0.136		40	16.75	33.31	24.298	363.5	0.146			
50	13.18	33.18	24.970	299.6	0.167		50	13.75	33.17	24.847	311.3	0.180			
75	12.29	33.34	25.267	271.3	0.238		75	12.68	33.13	25.029	293.9	0.254			
100	10.93	33.44	25.595	240.0	0.303		100	11.50	33.50	25.539	245.4	0.324			
125	10.27	33.59	25.827	218.0	0.361		125	10.60	33.65	25.816	219.0	0.383			
150	9.37	33.77	26.117	190.4	0.412		150	9.58	33.76	26.075	194.4	0.435			
175	8.90	33.91	26.302	172.9	0.459		175	9.07	33.85	26.228	179.9	0.483			
200	8.49	33.95	26.397	163.8	0.502		200	8.56	33.92	26.363	167.1	0.527			
225	8.14	34.00	26.489	155.1	0.542		225	8.09	33.95	26.458	158.1	0.568			
250	7.80	34.02	26.555	148.8	0.581		250	7.76	33.96	26.514	152.7	0.608			
275	7.08	33.97	26.618	142.8	0.619		275	7.36	33.98	26.587	145.8	0.647			
300	7.03	34.04	26.680	137.0	0.655		300	7.08	33.99	26.634	141.3	0.684			
350	6.51	34.09	26.790	126.6	0.723		350	6.50	34.03	26.744	130.9	0.754			
400	6.10	34.10	26.851	120.8	0.788		400	5.99	34.09	26.857	120.2	0.820			
450	5.98	34.16	26.913	114.8	0.849		450	5.86	34.18	26.944	111.9	0.880			
500	5.66	34.19	26.977	108.8	0.908		500	5.62	34.24	27.021	104.6	0.938			
550	5.50	34.26	27.052	101.7	0.964		550	5.32	34.26	27.073	99.7	0.992			
600	5.33	34.31	27.112	96.0	1.017		600	5.14	34.29	27.118	95.4	1.044			
700	4.87	34.36	27.205	87.2	1.116		700	4.79	34.36	27.214	86.3	1.142			
800	4.51	34.39	27.269	81.2	1.208		800	4.40	34.39	27.281	80.0	1.233			
900	4.17	34.43	27.337	74.7	1.299		900	4.06	34.43	27.349	73.6	1.318			
1000	3.87	34.46	27.392	69.5	1.375		1000	3.78	34.46	27.401	68.6	1.398			

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88030

RV DAV ID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 41.5N	118 07.0W	10/24/75	1626 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
17M	040	14KT	1		
Z	T	S	SIGMA T	DT	DD
0	16.18	33.56	24.621	332.8	0.000
5	16.18	33.56	24.621	332.8	0.016
10	15.55	33.54	24.647	320.8	0.032
15	14.33	33.51	24.988	297.8	0.048

CALCOFI CRUISE 7510

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88031

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 40.5N	118 09.5W	10/24/75	1524 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
24M	040	11KT	1		
Z	T	S	SIGMA T	DT	DD
0	16.11	33.59	24.659	329.1	0.000
10	16.11	33.59	24.659	329.1	0.032
17	13.94	33.47	25.039	293.0	0.054

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88032

RV DAV ID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 38.5N	118 13.5W	10/24/75	1409 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
37M	020	12KT	1		
Z	T	S	SIGMA T	DT	DD
0	16.02	33.60	24.688	326.4	0.000
10	15.94	33.59	24.698	325.4	0.032
20	17.78	33.42	25.234	274.4	0.062
30	17.11	33.46	25.394	259.2	0.089

CALCOFI CRUISE 7510

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88033

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 36.5N	118 17.5W	10/24/75	1221 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
390M	040	11KT	0		
Z	T	S	SIGMA T	DT	DD
0	17.33	33.67	24.437	350.3	0.000
10	17.28	33.67	24.448	349.2	0.034
20	16.43	33.59	24.586	336.0	0.069
30	13.53	33.49	25.138	283.5	0.100
40	12.15	33.43	25.363	262.1	0.127
50	11.71	33.49	25.492	249.8	0.153
75	10.82	33.57	25.716	228.6	0.213
100	10.17	33.70	25.930	208.2	0.268
125	9.79	33.75	26.033	198.5	0.320
150	9.56	33.86	26.156	186.7	0.368
175	9.29	33.92	26.247	178.1	0.415
200	8.85	34.01	26.388	164.7	0.459
225	8.67	34.03	26.432	160.6	0.500
250	8.42	34.08	26.509	153.2	0.541
275	8.32	34.09	26.533	151.0	0.580
300	8.08	34.14	26.608	143.8	0.618

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88034

RV DAV ID STARR JORDAN

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 34.5N	118 22.0W	10/24/75	1006 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
888M	080	11KT	0		
Z	T	S	SIGMA T	DT	DD
0	17.50	33.67	24.396	354.2	0.000
10	17.47	33.67	24.403	353.5	0.035
20	17.47	33.67	24.403	353.5	0.070
30	14.95	33.45	24.809	314.8	0.104
40	12.10	33.40	25.155	281.9	0.134
50	12.26	33.43	25.342	264.1	0.161
75	11.10	33.55	25.650	234.8	0.224
100	10.12	33.68	25.923	208.9	0.280
125	9.80	33.82	26.085	193.4	0.331
150	9.41	33.89	26.204	182.1	0.378
175	9.05	33.95	26.309	172.2	0.423
200	8.75	34.01	26.404	163.2	0.466
225	8.57	34.09	26.494	154.6	0.507
250	8.38	34.11	26.539	150.4	0.546
275	8.26	34.13	26.573	147.1	0.585
300	8.08	34.16	26.623	142.3	0.622
350	7.54	34.20	26.734	131.9	0.693
400	7.05	34.21	26.811	124.5	0.760
450	6.64	34.23	26.883	117.7	0.824
500	6.26	34.26	26.956	110.8	0.885
550	5.84	34.29	27.033	103.5	0.942
600	5.56	34.31	27.084	98.7	0.996
650	5.35	34.34	27.133	94.0	1.048
700	5.21	34.35	27.157	91.7	1.098
750	5.15	34.36	27.172	90.3	1.148

CALCOFI CRUISE 7510

90027⁶

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
33 29.5N	117 45.5W	10/24/75	0626 GMT

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
43M	100	10KT	0		
Z	T	S	SIGMA T	DT	DD
0	16.92	33.61	24.488	345.4	0.000
10	16.93	33.61	24.485	345.7	0.034
20	13.89	33.41	25.003	296.4	0.066
30	13.08	33.45	25.198	277.8	0.095

90028		RV DAV ID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 28.5N	117 46.5W	10/24/75	0526 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	
223M	150	7KT	0		
Z	T	S	SIGMA T	DT	DD
0	17.21	33.62	24.427	351.2	0.000
10	17.19	33.62	24.432	350.8	0.035
20	13.81	33.45	25.050	291.9	0.067
30	13.01	33.44	25.204	277.2	0.095
40	12.33	33.45	25.344	263.9	0.122
50	11.85	33.47	25.451	253.8	0.148
75	11.55	33.52	25.545	244.8	0.211
100	10.39	33.67	25.868	214.1	0.269
125	9.84	33.81	26.071	194.8	0.321
150	9.55	33.87	26.166	185.8	0.369
175	9.28	33.94	26.265	176.4	0.415

CALCOFI CRUISE 7510		90029			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 27.0N	117 49.5W	10/24/75	0356 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
630M	330	12KT	0		
Z	T	S	SIGMA T	DT	DD
0	18.19	33.70	24.251	367.9	0.000
10	18.19	33.70	24.251	367.9	0.036
20	15.18	33.53	24.821	313.7	0.070
30	13.25	33.40	25.125	284.7	0.100
40	12.97	33.44	25.212	276.5	0.129
50	12.50	33.46	25.319	266.3	0.156
75	11.45	33.49	25.540	245.3	0.220
100	10.59	33.59	25.772	223.3	0.279
125	9.98	33.69	25.954	205.9	0.333
150	9.49	33.85	26.160	186.3	0.383
175	9.00	33.95	26.317	171.4	0.429
200	8.81	34.03	26.410	162.6	0.471
225	8.43	34.06	26.492	154.8	0.512
250	8.42	34.11	26.533	150.9	0.551
275	8.22	34.14	26.587	145.8	0.590
300	7.84	34.13	26.635	141.2	0.627
350	7.63	34.18	26.705	134.6	0.698
400	7.15	34.21	26.797	125.9	0.767
450	6.67	34.23	26.879	118.1	0.831
500	6.26	34.25	26.948	111.5	0.892

90030		RV DAV ID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 25.0N	117 53.5W	10/24/75	0209 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	
639M	300	18KT	0		
Z	T	S	SIGMA T	DT	DD
0	18.23	33.70	24.241	368.9	0.000
10	18.23	33.70	24.241	368.9	0.036
20	16.68	33.67	24.590	335.7	0.072
30	14.30	33.47	24.964	300.1	0.104
40	13.16	33.41	25.151	282.3	0.133
50	12.65	33.42	25.259	272.0	0.161
75	11.48	33.51	25.550	244.3	0.226
100	10.70	33.58	25.744	225.9	0.285
125	10.08	33.70	25.945	206.8	0.339
150	9.04	33.97	26.326	170.5	0.387
175	8.73	34.04	26.430	160.7	0.430
200	8.52	34.07	26.486	155.4	0.470
225	8.30	34.09	26.535	150.7	0.509
250	8.13	34.11	26.577	146.8	0.547
275	8.01	34.14	26.618	142.8	0.585
300	7.85	34.16	26.658	139.1	0.621
350	7.43	34.20	26.750	130.4	0.691
400	7.07	34.21	26.808	124.8	0.758
450	6.59	34.23	26.889	117.1	0.822
500	6.17	34.26	26.968	109.6	0.882

CALCOFI CRUISE 7510		90031			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 23.0N	117 57.5W	10/24/75	0026 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
427M	300	22KT	0		
Z	T	S	SIGMA T	DT	DD
0	18.34	33.71	24.222	370.8	0.000
10	18.32	33.71	24.227	370.3	0.037
20	17.38	33.62	24.386	355.1	0.073
30	14.38	33.43	24.916	304.6	0.106
40	12.97	33.45	25.220	275.8	0.135
50	12.55	33.43	25.286	269.4	0.162
75	11.57	33.48	25.510	248.1	0.228
100	10.61	33.62	25.792	221.4	0.287
125	9.45	33.84	26.159	186.5	0.338
150	8.89	33.95	26.335	169.8	0.383
175	8.67	34.01	26.416	162.0	0.426
200	8.40	34.05	26.489	155.1	0.466
225	8.27	34.08	26.532	151.0	0.505
250	8.20	34.13	26.582	146.3	0.544
275	8.09	34.14	26.606	144.0	0.581
300	7.99	34.16	26.637	141.1	0.618

90032		RV DAV ID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 21.0N	118 01.5W	10/23/75	2240 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	
741M	300	21KT	0		
Z	T	S	SIGMA T	DT	DD
0	18.35	33.71	24.220	371.0	0.000
10	18.34	33.71	24.222	370.8	0.037
20	18.13	33.68	24.251	368.0	0.074
30	14.61	33.50	24.921	304.2	0.107
40	13.36	33.40	25.103	286.8	0.137
50	12.35	33.39	25.294	268.7	0.165
75	11.19	33.51	25.603	239.3	0.229
100	10.17	33.66	25.899	211.2	0.285
125	9.72	33.79	26.075	194.4	0.337
150	9.30	33.92	26.246	178.2	0.384
175	9.04	33.98	26.334	169.8	0.428
200	8.78	34.01	26.399	163.7	0.471
225	8.47	34.05	26.478	156.1	0.512
250	8.40	34.08	26.512	152.9	0.552
275	8.22	34.10	26.555	148.8	0.590
300	7.96	34.14	26.626	142.1	0.628
350	7.47	34.19	26.736	131.7	0.699
400	7.05	34.21	26.811	124.5	0.766
450	6.54	34.23	26.896	116.5	0.830
500	6.21	34.26	26.963	110.1	0.890
550	5.90	34.28	27.018	104.9	0.947
600	5.63	34.30	27.067	100.2	1.002
650	5.33	34.32	27.119	95.3	1.055

CALCOFI CRUISE 7510		90037			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 11.0N	118 22.5W	10/23/75	1932 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1165M	310	17KT	0		
Z	T	S	SIGMA T	DT	DD
0	18.12	33.69	24.261	367.0	0.000
10	18.10	33.69	24.266	366.6	0.036
20	14.98	33.53	24.864	309.6	0.070
30	13.42	33.43	25.114	285.8	0.100
40	12.13	33.43	25.367	261.8	0.127
50	11.59	33.46	25.491	249.9	0.153
75	10.73	33.58	25.739	226.3	0.213
100	9.77	33.74	26.028	198.9	0.267
125	9.20	33.86	26.215	181.1	0.315
150	8.85	33.98	26.364	166.9	0.359
175	8.65	34.05	26.450	158.8	0.400
200	8.41	34.07	26.503	153.8	0.440
225	8.28	34.11	26.554	148.9	0.479
250	8.11	34.13	26.595	145.0	0.517
275	7.97	34.15	26.632	141.5	0.554
300	7.77	34.16	26.669	138.0	0.590
350	7.40	34.19	26.746	130.7	0.660
400	7.10	34.20	26.796	126.0	0.727
450	6.67	34.23	26.879	118.1	0.791
500	6.38	34.25	26.933	113.0	0.852
550	6.04	34.26	26.985	108.1	0.911
600	5.72	34.29	27.048	102.0	0.968
700	5.02	34.35	27.179	89.6	1.071
800	4.60	34.38	27.251	82.8	1.166
900	4.32	34.41	27.305	77.7	1.254
1000	4.17	34.43	27.337	74.7	1.340

90045 RV DAV ID STARR JORDAN CALCOFI CRUISE 7510 90053
LATITUDE LONGITUDE MU/DAY/YR START TIME LATITUDE LONGITUDE MU/DAY/YR START TIME
32 54.5N 118 55.5W 11/03/75 0503 GMT 32 39.0N 119 28.5W 11/03/75 0038 GMT
BOTTOM WIND SPEED WEATHR DOMINANT WAVES BOTTOM WIND SPEED WEATHER DOMINANT WAVES
1756M 330 9KT 2 1295M 320 11KT 2
Z T S SIGMA T DT DD Z T S SIGMA T DT DD
0 15.34 33.63 24.863 309.7 0.000 0 15.70 33.53 24.706 324.7 0.000
10 15.32 33.62 24.859 310.1 0.031 10 15.68 33.53 24.710 324.2 0.032
20 15.20 33.62 24.886 307.5 0.061 20 15.57 33.53 24.735 321.9 0.064
30 14.50 33.57 24.998 296.8 0.092 30 15.48 33.52 24.747 320.7 0.097
40 12.00 33.50 25.466 254.2 0.119 40 13.70 33.46 25.081 289.0 0.127
50 11.12 33.60 25.685 231.5 0.144 50 12.87 33.43 25.224 275.3 0.155
75 10.23 33.70 25.919 209.2 0.199 75 11.35 33.54 25.597 239.8 0.220
100 9.67 33.84 26.123 189.9 0.250 100 10.23 33.65 25.880 212.9 0.277
125 9.29 33.96 26.279 175.1 0.296 125 9.28 33.79 26.147 187.5 0.328
150 9.07 34.02 26.361 167.3 0.339 150 8.68 33.91 26.336 169.6 0.373
175 8.77 34.08 26.455 158.3 0.381 175 8.35 33.95 26.418 161.8 0.415
200 8.53 34.11 26.516 152.5 0.420 200 7.96 34.00 26.516 152.5 0.456
225 8.15 34.11 26.574 147.1 0.459 225 7.75 34.02 26.563 148.1 0.494
250 7.75 34.11 26.633 141.4 0.496 250 7.63 34.10 26.643 140.5 0.531
275 7.47 34.14 26.697 135.4 0.532 275 7.50 34.11 26.669 138.0 0.567
300 7.33 34.18 26.748 130.5 0.566 300 7.41 34.15 26.713 133.8 0.602
350 6.94 34.23 26.842 121.6 0.632 350 6.84 34.20 26.832 122.6 0.669
400 6.62 34.26 26.909 115.2 0.694 400 6.48 34.22 26.896 116.5 0.731
450 6.45 34.28 26.947 111.6 0.753 450 6.09 34.26 26.978 108.7 0.791
500 6.14 34.29 26.995 107.0 0.811 500 5.88 34.27 27.013 105.4 0.847
550 5.83 34.31 27.051 101.8 0.867 550 5.71 34.29 27.050 101.9 0.903
600 5.67 34.32 27.078 99.2 0.921 600 5.41 34.31 27.102 97.0 0.956
700 5.13 34.36 27.175 90.0 1.024 700 5.00 34.36 27.190 88.6 1.056
800 4.75 34.39 27.242 83.7 1.119 800 4.62 34.40 27.264 81.6 1.149
900 4.26 34.44 27.335 74.8 1.207 900 4.28 34.43 27.325 75.8 1.237
1000 4.03 34.47 27.383 70.3 1.288 1000 4.05 34.46 27.373 71.2 1.319

90060 RV DAV ID STARR JORDAN CALCOFI CRUISE 7510 90070
LATITUDE LONGITUDE MU/DAY/YR START TIME LATITUDE LONGITUDE MU/DAY/YR START TIME
32 24.5N 119 57.0W 11/02/75 2020 GMT 32 04.5N 120 38.0W 11/02/75 1534 GMT
BOTTOM WIND SPEED WEATHR DOMINANT WAVES BOTTOM WIND SPEED WEATHER DOMINANT WAVES
947M 320 9KT 2 3926M 340 13KT 2
Z T S SIGMA T DT DD Z T S SIGMA T DT DD
0 16.45 33.63 24.612 333.6 0.000 0 14.01 33.46 25.017 295.1 0.000
10 16.43 33.63 24.617 333.1 0.033 10 14.01 33.46 25.017 295.1 0.029
20 16.39 33.62 24.618 333.0 0.066 20 14.01 33.46 25.017 295.1 0.059
30 16.31 33.60 24.622 332.7 0.100 30 14.01 33.46 25.017 295.1 0.088
40 16.24 33.60 24.638 331.2 0.133 40 13.90 33.46 25.039 292.9 0.118
50 13.55 33.46 25.111 286.1 0.164 50 13.42 33.44 25.122 285.1 0.147
75 10.95 33.56 25.685 231.5 0.229 75 10.50 33.41 25.647 235.1 0.212
100 10.42 33.67 25.863 214.5 0.285 100 9.72 33.70 26.005 201.1 0.267
125 9.55 33.78 26.096 192.5 0.337 125 9.13 33.87 26.234 179.3 0.315
150 8.91 33.91 26.300 173.0 0.383 150 8.89 33.97 26.350 168.3 0.359
175 8.61 33.96 26.386 164.9 0.426 175 8.54 34.03 26.452 158.6 0.401
200 7.94 34.02 26.535 150.8 0.466 200 8.26 34.09 26.542 150.1 0.440
225 7.90 34.09 26.595 145.0 0.504 225 8.05 34.11 26.589 145.6 0.478
250 7.37 34.06 26.648 140.0 0.541 250 7.69 34.16 26.681 136.9 0.515
275 7.20 34.16 26.751 130.2 0.576 275 7.20 34.13 26.727 132.5 0.549
300 7.12 34.18 26.778 127.7 0.609 300 6.75 34.13 26.789 126.6 0.583
350 6.72 34.21 26.856 120.3 0.673 350 6.87 34.22 26.844 121.4 0.647
400 6.53 34.24 26.905 115.6 0.735 400 6.55 34.24 26.902 115.9 0.709
450 6.17 34.26 26.968 109.6 0.795 450 6.10 34.26 26.977 108.8 0.769
500 5.84 34.27 27.018 104.9 0.851 500 5.77 34.29 27.042 102.6 0.825
550 5.67 34.31 27.070 100.0 0.906 550 5.43 34.30 27.092 97.9 0.878
600 5.54 34.33 27.102 97.0 0.959 600 5.13 34.30 27.127 94.6 0.930
700 4.99 34.37 27.199 87.8 1.059 700 5.01 34.38 27.204 87.2 1.028
800 4.50 34.41 27.286 79.5 1.151 800 4.57 34.40 27.270 81.0 1.120
900 4.24 34.44 27.337 74.6 1.206 900 4.24 34.44 27.337 74.6 1.206
1000 3.96 34.47 27.391 69.6 1.287 1000 3.96 34.47 27.391 69.6 1.287

RV DAVID STARR JORDAN CALCOFI CRUISE 7510 90080
LATITUDE LONGITUDE MU/DAY/YR MESSENGER TIME BOTTOM WIND SPEED WEATHER DOMINANT WAVES
31 45.0N 121 19.5W 11/ 2/75 1033 GMT 3738M 340 17KT
Z T S O2 PO4 S103 NO2 NO3 DT Z T S O2 SIGT DT DD
1 15.18 33.348 5.96 327.0 0 15.18 33.348 6.96 24.681 327.0 0.000
11 15.18 33.339 6.06 327.7 10 15.18 33.341 6.05 24.675 327.6 0.032
30 15.17 33.347 5.98 326.9 20 15.17 33.344 6.02 24.678 327.3 0.065
53 14.56 33.350 5.67 314.1 30 15.17 33.347 5.98 24.683 326.9 0.098
67 13.54 33.342 6.12 294.6 50 14.69 33.352 5.68 24.788 316.9 0.162
82 12.45 33.303 5.96 276.9 75 12.94 33.321 6.03 25.124 284.9 0.238
97 11.59 33.320 5.65 260.3 100 11.46 33.338 5.57 25.418 256.9 0.306
124 10.63 33.517 4.94 229.3 125 10.59 33.527 4.91 25.721 228.0 0.368
147 9.79 33.697 4.39 202.4 150 9.71 33.713 4.36 26.016 200.1 0.422
171 9.27 33.794 4.19 187.1 200 8.74 33.913 3.64 26.328 170.4 0.516
205 8.66 33.930 3.53 167.8 250 8.03 34.019 2.59 26.519 152.3 0.599
266 7.88 34.040 2.29 148.5 300 7.68 34.110 1.83 26.643 140.5 0.674
360 6.96 34.128 1.27 129.5 400 6.59 34.148 0.99 26.825 123.3 0.812
454 6.17 34.178 0.72 115.8 500 5.81 34.200 0.55 26.966 109.9 0.934
552 5.47 34.228 0.43 103.8 600 5.28 34.267 0.35 27.083 98.7 1.045
674 5.08 34.329 0.30 91.8 700 5.01 34.348 0.30 27.179 89.7 1.147
819 4.68 34.415 0.33 81.1 800 4.73 34.407 0.32 27.257 82.3 1.241
968 4.07 34.438 0.53 73.1 1000 3.98 34.450 27.373 71.3 1.412

90080		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
31 45.0N	121 19.5W	11/02/75	0931 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3738M	340	17KT			
Z	T	S	SIGMA T	DT	DD
0	15.20	33.36	24.686	326.6	0.000
10	15.20	33.36	24.686	326.6	0.032
20	15.20	33.36	24.686	326.6	0.065
30	15.18	33.36	24.690	326.2	0.098
40	15.15	33.37	24.704	324.8	0.130
50	15.00	33.36	24.730	322.4	0.163
75	13.54	33.36	25.026	294.2	0.240
100	11.53	33.33	25.402	258.5	0.310
125	10.62	33.51	25.704	229.7	0.372
150	9.81	33.71	25.998	201.7	0.426
175	9.16	33.86	26.221	180.5	0.475
200	8.67	33.94	26.361	167.2	0.519
225	8.28	33.97	26.444	159.3	0.561
250	7.97	34.02	26.530	151.2	0.601
275	8.00	34.14	26.620	142.7	0.639
300	7.83	34.15	26.653	139.6	0.675
350	7.22	34.16	26.748	130.5	0.745
400	6.69	34.17	26.829	122.9	0.812
450	6.21	34.19	26.908	115.4	0.874
500	5.85	34.22	26.977	108.8	0.933
550	5.48	34.23	27.030	103.7	0.990
600	5.31	34.28	27.090	98.1	1.044
700	4.94	34.35	27.189	88.7	1.145
800	4.69	34.41	27.264	81.5	1.238
900	4.21	34.44	27.341	74.3	1.324
1000	3.91	34.47	27.396	69.1	1.405

CALCOFI CRUISE 7510					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
31 24.0N	122 01.0W	11/02/75	0416 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3737M	340	15KT	1		
Z	T	S	SIGMA T	DT	DD
0	17.00	33.46	24.354	358.2	0.000
10	17.00	33.46	24.354	358.2	0.035
20	17.00	33.46	24.354	358.2	0.071
30	16.91	33.46	24.376	356.2	0.107
40	16.23	33.41	24.494	344.8	0.142
50	15.72	33.36	24.571	337.5	0.176
75	14.22	33.40	24.926	303.7	0.257
100	13.07	33.47	25.215	276.2	0.330
125	11.74	33.50	25.494	249.6	0.396
150	10.51	33.54	25.747	225.6	0.457
175	9.62	33.77	26.076	194.3	0.510
200	9.01	33.87	26.253	177.5	0.557
225	8.55	33.94	26.380	165.5	0.601
250	8.05	33.96	26.471	156.8	0.643
275	7.65	33.97	26.538	150.5	0.682
300	7.24	33.99	26.612	143.5	0.720
350	6.73	34.03	26.713	133.8	0.792
400	6.13	34.07	26.823	123.4	0.859
450	5.93	34.15	26.912	115.0	0.921
500	5.67	34.19	26.976	108.9	0.980
550	5.41	34.22	27.031	103.7	1.037
600	5.16	34.27	27.100	97.2	1.090
700	4.81	34.34	27.196	88.1	1.190
800	4.52	34.38	27.260	82.0	1.283
900	4.22	34.41	27.316	76.7	1.371
1000	3.89	34.45	27.382	70.4	1.453

5 5 91026		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 14.5N	117 27.5W	10/22/75	0150 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
21M	270	8KT	2		
Z	T	S	SIGMA T	DT	DD
0	17.65	33.65	24.345	359.1	0.000
10	14.52	33.56	24.986	298.0	0.032
20	13.15	33.52	25.238	274.0	0.061

CALCOFI CRUISE 7510					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 14.0N	117 29.0W	10/22/75	0311 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
62M	280	8KT	2		
Z	T	S	SIGMA T	DT	DD
0	18.22	33.70	24.244	368.7	0.000
10	17.75	33.65	24.321	361.4	0.036
20	15.02	33.41	24.764	319.2	0.070
30	12.45	33.35	25.244	273.5	0.100
40	11.89	33.43	25.412	257.4	0.126
50	11.60	33.47	25.497	249.4	0.152

5 91028		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 11.5N	117 34.0W	10/22/75	0428 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
741M	180	6KT	2		
Z	T	S	SIGMA T	DT	DD
0	18.58	33.71	24.162	376.4	0.000
10	18.58	33.71	24.162	376.4	0.037
20	17.56	33.70	24.405	353.4	0.074
30	14.32	33.42	24.921	304.2	0.107
40	13.11	33.43	25.177	279.9	0.136
50	12.47	33.45	25.317	266.4	0.163
75	11.10	33.52	25.627	237.0	0.227
100	10.35	33.65	25.860	214.9	0.284
125	9.78	33.75	26.034	198.3	0.336
150	9.41	33.89	26.204	182.1	0.384
175	9.06	33.93	26.292	173.8	0.429
200	8.85	34.01	26.388	164.7	0.473
225	8.57	34.06	26.470	156.9	0.514
250	8.39	34.10	26.530	151.3	0.553
275	8.17	34.13	26.586	145.9	0.592
300	8.00	34.15	26.628	142.0	0.629
350	7.61	34.19	26.716	133.5	0.701
400	7.17	34.20	26.786	126.9	0.769
450	6.83	34.22	26.849	120.9	0.834
500	6.42	34.25	26.927	113.5	0.896

CALCOFI CRUISE 7510					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
33 09.5N	117 38.0W	10/22/75	0609 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
741M	250	6KT	2		
Z	T	S	SIGMA T	DT	DD
0	18.53	33.71	24.175	375.2	0.000
10	18.53	33.71	24.175	375.2	0.037
20	16.53	33.58	24.555	339.0	0.073
30	14.50	33.46	24.914	304.9	0.105
40	13.27	33.43	25.145	282.9	0.135
50	12.30	33.45	25.350	263.3	0.162
75	11.35	33.54	25.597	239.8	0.225
100	10.34	33.64	25.854	215.4	0.283
125	9.68	33.80	26.090	193.0	0.334
150	9.29	33.94	26.263	176.6	0.381
175	9.02	33.97	26.330	170.3	0.425
200	8.76	34.05	26.433	160.4	0.468
225	8.61	34.11	26.503	153.7	0.508
250	8.35	34.15	26.575	147.0	0.547
275	8.20	34.17	26.613	143.3	0.584
300	8.03	34.17	26.639	140.9	0.621
350	7.51	34.20	26.738	131.4	0.692
400	7.06	34.21	26.810	124.7	0.759
450	6.62	34.23	26.885	117.5	0.822
500	6.34	34.26	26.946	111.7	0.883

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91030

RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

93026

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
33 07.5N	117 42.0W	10/22/75	0748 GMT	32 57.0N	117 17.5W	10/21/75	1829 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
824M	190	4KT	2		41M	340	7KT	2			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.46	33.70	24.185	374.3	0.000	0	17.57	33.63	24.349	358.7	0.000
10	18.37	33.70	24.207	372.2	0.037	10	17.20	33.59	24.407	353.2	0.035
20	16.88	33.63	24.512	343.1	0.073	20	13.52	33.38	25.055	291.4	0.067
30	14.53	33.47	24.915	304.7	0.105	30	12.26	33.43	25.342	264.1	0.095
40	12.92	33.41	25.199	277.7	0.134						
50	12.35	33.45	25.341	264.3	0.162						
75	11.35	33.55	25.605	239.1	0.225						
100	10.58	33.62	25.797	220.9	0.283						
125	9.87	33.76	26.027	199.0	0.336						
150	9.22	33.89	26.235	179.2	0.384						
175	8.97	33.96	26.330	170.2	0.428						
200	8.79	34.05	26.429	160.9	0.471						
225	8.60	34.10	26.497	154.3	0.511						
250	8.49	34.14	26.546	149.7	0.550						
275	8.30	34.15	26.582	146.2	0.588						
300	8.06	34.17	26.634	141.3	0.626						
350	7.67	34.22	26.731	132.1	0.697						
400	7.04	34.20	26.805	125.2	0.764						
450	6.61	34.23	26.886	117.4	0.828						
500	6.25	34.25	26.950	111.4	0.888						
550	6.02	34.27	26.995	107.1	0.947						
600	5.79	34.29	27.040	102.8	1.003						
700	5.16	34.34	27.155	91.9	1.108						

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RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

93028

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 57.0N	117 18.5W	10/21/75	1734 GMT	32 54.5N	117 22.0W	10/21/75	1556 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
84M	360	6KT	2		611M	020	7KT	2			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.80	33.64	24.301	363.3	0.000	0	18.22	33.67	24.221	370.8	0.000
10	16.26	33.51	24.564	338.2	0.035	10	18.16	33.66	24.228	370.2	0.037
20	14.15	33.42	24.957	300.8	0.067	20	14.80	33.44	24.834	312.4	0.071
30	12.75	33.41	25.232	274.6	0.095	30	13.47	33.39	25.073	289.7	0.101
40	12.03	33.46	25.409	257.7	0.122	40	12.53	33.40	25.267	271.2	0.129
50	11.57	33.49	25.518	247.4	0.147	50	12.02	33.43	25.388	259.8	0.156
75	11.15	33.55	25.641	235.7	0.208	75	10.90	33.53	25.670	232.9	0.218
						100	10.26	33.64	25.868	214.2	0.274
						125	9.76	33.76	26.045	197.2	0.326
						150	9.47	33.90	26.202	182.3	0.374
						175	8.95	33.95	26.325	170.7	0.419
						200	8.70	34.00	26.404	163.2	0.462
						225	8.46	34.03	26.464	157.5	0.503
						250	8.27	34.07	26.524	151.8	0.543
						275	8.06	34.10	26.579	146.5	0.581
						300	7.81	34.12	26.632	141.5	0.618
						350	7.53	34.18	26.720	133.2	0.690
						400	7.06	34.20	26.802	125.4	0.757
						450	6.59	34.23	26.889	117.1	0.821

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RV DAVID STARR JORDAN

CALCOFI CRUISE 7510

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
32 52.5N	117 26.5W	10/21/75	1409 GMT	32 50.5N	117 31.0W	10/21/75	1141 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
925M	040	5KT	2		870M	350	6KT	2			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.65	33.72	24.153	377.4	0.000	0	18.26	33.68	24.219	371.0	0.000
10	18.24	33.69	24.231	369.9	0.037	10	18.25	33.68	24.221	370.8	0.037
20	15.60	33.54	24.736	321.8	0.072	20	16.52	33.57	24.550	339.5	0.072
30	13.64	33.39	25.039	293.0	0.102	30	13.42	33.46	25.138	283.6	0.103
40	12.44	33.40	25.285	269.6	0.131	40	12.84	33.42	25.222	275.5	0.131
50	12.04	33.46	25.407	257.9	0.157	50	12.19	33.43	25.356	262.8	0.158
75	11.15	33.54	25.633	236.4	0.219	75	11.52	33.52	25.551	244.3	0.222
100	10.46	33.65	25.841	216.7	0.276	100	10.55	33.63	25.810	219.7	0.281
125	9.71	33.74	26.038	197.9	0.329	125	9.93	33.75	26.009	200.7	0.334
150	9.39	33.87	26.192	183.3	0.377	150	9.42	33.85	26.171	185.3	0.383
175	9.10	33.94	26.294	173.7	0.422	175	9.01	33.95	26.315	171.6	0.428
200	8.76	34.02	26.410	162.6	0.465	200	8.96	34.05	26.402	163.4	0.471
225	8.65	34.08	26.474	156.6	0.506	225	8.69	34.09	26.475	156.4	0.512
250	8.44	34.12	26.537	150.5	0.546	250	8.52	34.12	26.525	151.7	0.552
275	8.26	34.13	26.573	147.1	0.584	275	8.27	34.14	26.579	146.6	0.590
300	7.82	34.12	26.631	141.7	0.622	300	7.93	34.15	26.638	141.0	0.627
350	7.45	34.19	26.739	131.4	0.693	350	7.39	34.14	26.708	134.3	0.699
400	6.97	34.20	26.814	124.2	0.759	400	7.00	34.21	26.818	123.9	0.766
450	6.59	34.23	26.889	117.1	0.823	450	6.68	34.22	26.869	119.0	0.830
500	6.29	34.26	26.952	111.1	0.883	500	6.36	34.24	26.927	113.5	0.892
						550	6.00	34.26	26.990	107.6	0.951
						600	5.67	34.28	27.047	102.2	1.007
						700	4.96	34.35	27.186	88.9	1.110
						750	4.76	34.37	27.225	85.3	1.158

93040 RV DAV ID STARR JORDAN						CALCOFI CRUISE 7510						93050					
LATITUDE	LONGITUDE		MO/DAY/YR	START TIME		LATITUDE	LONGITUDE		MO/DAY/YR	START TIME		LATITUDE	LONGITUDE		MO/DAY/YR	START TIME	
32 30.0N	118 11.5W		10/22/75	1428 GMT		32 10.0N	118 52.5W		10/22/75	2053 GMT							
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1756M	330	RKT	2			1368M	310	24KT	2								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.04	33.74	24.319	361.5	0.000	0	17.64	33.65	24.347	358.8	0.000	0	17.64	33.65	24.347	358.8	0.000
10	18.04	33.74	24.319	361.5	0.036	10	17.63	33.65	24.350	358.6	0.035	10	17.63	33.65	24.350	358.6	0.035
20	17.41	33.74	24.471	347.0	0.071	20	17.63	33.65	24.350	358.6	0.071	20	17.63	33.65	24.350	358.6	0.071
30	16.23	33.73	24.739	321.5	0.105	30	16.28	33.59	24.621	332.8	0.106	30	16.28	33.59	24.621	332.8	0.106
40	14.71	33.58	24.961	300.4	0.136	40	14.19	33.41	24.940	302.3	0.138	40	14.19	33.41	24.940	302.3	0.138
50	12.43	33.52	25.182	279.4	0.165	50	12.31	33.37	25.286	269.4	0.167	50	12.31	33.37	25.286	269.4	0.167
75	10.85	33.54	25.687	231.3	0.229	75	11.47	33.39	25.459	253.0	0.232	75	11.47	33.39	25.459	253.0	0.232
100	10.00	33.72	25.974	204.0	0.284	100	10.14	33.52	25.795	221.1	0.292	100	10.14	33.52	25.795	221.1	0.292
125	9.45	33.82	26.143	188.0	0.334	125	9.37	33.74	26.094	192.6	0.344	125	9.37	33.74	26.094	192.6	0.344
150	8.98	33.89	26.274	175.6	0.380	150	9.26	33.93	26.260	176.9	0.391	150	9.26	33.93	26.260	176.9	0.391
175	8.71	33.93	26.347	168.6	0.424	175	8.77	33.94	26.346	168.7	0.435	175	8.77	33.94	26.346	168.7	0.435
200	8.27	33.98	26.454	158.4	0.465	200	8.54	33.96	26.397	163.8	0.477	200	8.54	33.96	26.397	163.8	0.477
225	8.12	34.04	26.523	151.8	0.505	225	8.60	34.07	26.474	156.6	0.519	225	8.60	34.07	26.474	156.6	0.519
250	8.00	34.11	26.596	144.9	0.543	250	8.56	34.12	26.528	151.4	0.558	250	8.56	34.12	26.528	151.4	0.558
275	8.01	34.14	26.618	142.8	0.580	275	8.28	34.15	26.585	145.9	0.596	275	8.28	34.15	26.585	145.9	0.596
300	7.87	34.18	26.670	137.9	0.617	300	7.92	34.15	26.639	140.8	0.634	300	7.92	34.15	26.639	140.8	0.634
350	7.32	34.18	26.750	130.4	0.686	350	7.32	34.14	26.718	133.3	0.705	350	7.32	34.14	26.718	133.3	0.705
400	6.86	34.19	26.821	123.6	0.753	400	7.16	34.22	26.804	125.3	0.772	400	7.16	34.22	26.804	125.3	0.772
450	6.70	34.22	26.867	119.3	0.817	450	6.51	34.19	26.868	119.1	0.837	450	6.51	34.19	26.868	119.1	0.837
500	6.22	34.23	26.938	112.5	0.878	500	6.08	34.23	26.956	110.8	0.898	500	6.08	34.23	26.956	110.8	0.898
550	5.91	34.25	26.993	107.3	0.936	550	5.86	34.26	27.007	105.9	0.955	550	5.86	34.26	27.007	105.9	0.955
600	5.47	34.29	27.079	99.1	0.992	600	5.66	34.30	27.064	100.6	1.011	600	5.66	34.30	27.064	100.6	1.011
700	4.93	34.35	27.190	88.6	1.093	700	5.01	34.35	27.181	89.5	1.113	700	5.01	34.35	27.181	89.5	1.113
800	4.62	34.38	27.249	83.1	1.187	800	4.65	34.38	27.245	83.4	1.208	800	4.65	34.38	27.245	83.4	1.208
900	4.28	34.41	27.309	77.3	1.276	900	4.31	34.41	27.306	77.6	1.297	900	4.31	34.41	27.306	77.6	1.297
1000	3.94	34.45	27.377	70.9	1.359	1000	4.05	34.44	27.357	72.7	1.381	1000	4.05	34.44	27.357	72.7	1.381

RV DAVID STARR JORDAN										CALCOFI CRUISE 7510						93060									
LATITUDE	LONGITUDE		MO/DAY/YR	MESSENGER TIME						BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		LATITUDE	LONGITUDE		MO/DAY/YR	START TIME					
31 50.0N	119 34.0W		11/1/75	0818 GMT						2602M	320	19KT	0			31 50.0N	119 34.0W		11/01/75	0709 GMT					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	16.68	33.594	5.73					341.3	0	16.68	33.594	5.73	24.531	341.3	0.000	0	16.67	33.70	24.615	333.3	0.000				
9	16.69	33.592	5.80					341.6	10	16.68	33.593	5.79	24.528	341.6	0.034	10	16.67	33.70	24.615	333.3	0.033				
28	16.67	33.588	5.75					341.5	20	16.67	33.591	5.77	24.529	341.5	0.068	20	16.67	33.70	24.615	333.3	0.066				
52	13.00	33.329	5.61					285.2	30	16.37	33.558	5.73	24.574	337.2	0.102	30	16.65	33.70	24.620	332.9	0.100				
66	12.53	33.397	5.83					271.5	50	13.31	33.342	5.62	25.067	290.3	0.165	40	13.10	33.47	25.209	276.7	0.130				
80	11.85	33.528	5.20					249.5	75	12.13	33.484	5.47	25.407	257.9	0.234	50	12.45	33.45	25.321	266.1	0.157				
94	10.77	33.581	4.50					225.9	100	10.41	33.631	4.20	25.832	217.5	0.294	75	11.03	33.56	25.671	232.9	0.220				
122	9.75	33.804	3.39					193.8	125	9.65	33.815	3.37	26.105	191.6	0.345	100	9.87	33.77	26.035	198.3	0.275				
146	9.14	33.864	3.25					179.9	150	9.09	33.877	3.24	26.245	178.3	0.392	125	9.37	33.89	26.211	181.5	0.323				
170	8.87	33.934						170.7	200	8.14	33.975	3.11	26.468	157.1	0.478	150	8.97	34.00	26.361	167.3	0.367				
203	8.07	33.977	3.10					155.8	250	7.37	34.031	2.27	26.625	142.2	0.555	175	8.72	34.04	26.432	160.6	0.409				
265	7.22	34.046	1.98					139.0	300	6.87	34.079	0.55	26.732	132.0	0.625	200	8.52	34.06	26.478	156.1	0.449				
358	6.47	34.139	1.04					122.4	400	6.34	34.211	0.72	26.907	115.5	0.754	225	8.14	34.10	26.568	147.7	0.488				
453	6.21	34.294	0.43					107.6	500	5.95	34.328	0.30	27.049	101.9	0.869	250	7.90	34.12	26.619	142.8	0.525				
553	5.64	34.349	0.26					96.7	600	5.43	34.366	0.26	27.143	93.1	0.973	275	7.72	34.13	26.653	139.5	0.562				
675	5.16	34.386	0.27					88.5	700	5.07	34.391	0.28	27.206	87.1	1.071	300	7.48	34.15	26.703	134.8	0.597				
822	4.66	34.419	0.38					80.5	800	4.73	34.414	0.35	27.262	81.7	1.164	350	6.77	34.16	26.810	124.6	0.665				
969	4.09	34.470	0.59					70.9	1000	4.02	34.480		27.392	69.4	1.333	400	6.10	34.15	26.890	117.0	0.728				

93060 RV DAV ID STARR JORDAN										CALCOFI CRUISE 7510						93070					
LATITUDE	LONGITUDE		MO/DAY/YR	START TIME						LATITUDE	LONGITUDE		MO/DAY/YR	START TIME							
31 50.0N	119 34.0W		11/01/75	0709 GMT						31 30.0N	120 14.0W		11/01/75	1235 GMT							
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
2602M	320	19KT	0			3926M	320	16KT	1												
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD				
0	16.69	33.58	24.519	342.5	0.000	0	16.67	33.70	24.615	333.3	0.000	0	16.67	33.70	24.615	333.3	0.000				
10	16.69	33.58	24.519	342.5	0.034	10	16.67	33.70	24.615	333.3	0.033	10	16.67	33.70	24.615	333.3	0.033				
20	16.69	33.58	24.519	342.5	0.068	20	16.67	33.70	24.615	333.3	0.066	20	16.67	33.70	24.615	333.3	0.066				
30	16.67	33.58	24.523	342.1	0.102	30	16.65	33.70	24.620	332.9	0.100	30	16.65	33.70	24.620	332.9	0.100				
40	15.65	33.43	24.640	330.9	0.136	40	13.10	33.47	25.209	276.7	0.130	40	13.10	33.47	25.209	276.7	0.130				
50	12.79	33.33	25.162	281.2	0.167	50	12.45	33.45	25.321	266.1	0.157	50	12.45	33.45	25.321	266.1	0.157				
75	11.88	33.46	25.437	255.1	0.234	75	11.03	33.56	25.671	232.9	0.220	75	11.03	33.56	25.671	232.9	0.220				
100	10.18	33.69	25.920	209.2	0.293	100	9.87	33.77	26.035	198.3	0.275	100	9.87	33.77	26.035	198.3	0.275				
125	9.38	33.81	26.147	187.6	0.343	125	9.37	33.89	26.211	181.5	0.323	125	9.37	33.89	26.211	181.5	0.323				
150	9.05	33.88	26.255	177.4	0.389	150	8.97	34.00	26.361	167.3	0.367	150	8.97	34.00	26.361	167.3	0.367				
175	8.58	33.95	26.383	165.2	0.433	175	8.72	34.04	26.432	160.6	0.409	175	8.72	34.04	26.432	160.6	0.409				

93080		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510					93090
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
31 10.0N	120 54.0W	11/01/75	1741 GMT		30 50.5N	121 34.5W	11/01/75	2237 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3737M	310	13KT	1		4116M	330	15KT	1	330 6 10		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.69	33.63	24.557	338.9	0.000	0	15.80	33.42	24.599	334.8	0.000
10	16.68	33.63	24.559	338.6	0.033	10	15.75	33.42	24.610	333.8	0.033
20	16.68	33.63	24.559	338.6	0.067	20	15.50	33.43	24.674	327.7	0.066
30	16.68	33.63	24.559	338.6	0.101	30	15.43	33.43	24.689	326.3	0.099
40	13.45	33.54	25.193	278.3	0.132	40	15.42	33.43	24.691	326.0	0.132
50	17.46	33.50	25.358	262.6	0.159	50	14.05	33.25	24.847	311.3	0.164
75	11.21	33.47	25.568	242.6	0.223	75	12.02	33.29	25.280	270.1	0.237
100	10.15	33.60	25.855	215.3	0.281	100	11.27	33.43	25.526	246.6	0.302
125	9.45	33.75	26.089	193.1	0.332	125	10.46	33.59	25.794	221.1	0.361
150	9.03	33.92	26.289	174.1	0.379	150	9.67	33.75	26.052	196.5	0.414
175	8.53	34.00	26.430	160.7	0.421	175	9.08	33.90	26.265	176.3	0.461
200	8.34	34.06	26.506	153.5	0.462	200	8.81	33.98	26.371	166.3	0.505
225	8.13	34.12	26.585	146.0	0.500	225	8.43	34.05	26.484	155.6	0.546
250	7.99	34.18	26.652	139.6	0.537	250	8.16	34.08	26.549	149.4	0.585
275	7.78	34.18	26.683	136.6	0.572	275	7.84	34.08	26.596	144.9	0.623
300	7.53	34.19	26.728	132.5	0.607	300	7.55	34.11	26.662	138.7	0.660
350	6.89	34.19	26.817	123.9	0.674	350	7.13	34.19	26.784	127.1	0.729
400	6.44	34.21	26.893	116.7	0.737	400	6.31	34.13	26.847	121.1	0.794
450	6.17	34.23	26.944	111.9	0.797	450	5.88	34.17	26.934	112.9	0.855
500	6.02	34.27	26.995	107.1	0.855	500	5.64	34.21	26.995	107.1	0.913
550	5.71	34.28	27.042	102.7	0.911	550	5.43	34.25	27.052	101.7	0.969
600	5.55	34.30	27.077	99.3	0.965	600	5.30	34.28	27.091	98.0	1.022
700	5.06	34.35	27.175	90.0	1.067	700	4.83	34.34	27.193	88.3	1.122
800	4.67	34.38	27.243	83.6	1.162	800	4.47	34.39	27.273	80.7	1.215
900	4.37	34.41	27.300	78.2	1.252	900	4.14	34.43	27.340	74.4	1.301
1000	4.03	34.45	27.367	71.8	1.336	1000	3.89	34.46	27.390	69.7	1.381

RV DAVID STARR JORDAN		CALCOFI CRUISE 7510					94032								
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
32 40.0N	117 35.0W	10/21/75	0951 GMT		1110M	330	6KT	1							
Z	T	S	O2	PO4	SiO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	18.45	33.711	4.920					373.3	0	18.45	33.711		24.195	373.3	0.000
11	18.43	33.712	5.66					372.7	10	18.43	33.713		24.201	372.8	0.037
29	13.89	33.421	6.40					295.6	20	16.32	33.542	6.15	24.572	337.4	0.072
53	12.45	33.508	5.77					261.8	30	13.82	33.440	6.37	25.038	293.0	0.104
67	11.77	33.537	5.08					247.4	50	12.55	33.503	5.84	25.343	264.0	0.160
82	11.34	33.577	4.81					237.0	75	11.53	33.557	4.92	25.575	242.0	0.224
96	10.70	33.657	4.25					220.2	100	10.53	33.678	4.13	25.848	216.0	0.281
124	9.77	33.796	3.60					194.7	125	9.74	33.803	3.57	26.080	193.9	0.333
148	9.38	33.935	3.03					178.3	150	9.36	33.944	2.99	26.253	177.5	0.380
172	9.24	34.019	2.67					170.0	200	8.87	34.083	2.37	26.440	159.8	0.466
205	8.81	34.091	2.33					158.1	250	8.52	34.155	1.89	26.551	149.2	0.546
266	8.45	34.170	1.75					146.9	300	8.13	34.196	1.50	26.643	140.5	0.620
362	7.49	34.226	1.14					129.2	400	7.13	34.241	0.90	26.824	123.3	0.758
456	6.63	34.261	0.61					115.3	500	6.27	34.283	0.46	26.973	109.2	0.881
555	5.86	34.312	0.35					102.0	600	5.54	34.337	0.31	27.106	96.6	0.991
678	5.07	34.377	0.25					88.1	700	4.95	34.387	0.27	27.216	86.1	1.090
823	4.41	34.436	0.45					76.6	800	4.49	34.428	0.40	27.300	78.2	1.180
970	3.95	34.478	0.58					68.9	1000	3.84	34.490		27.419	66.9	1.342

94032		RV DAVID STARR JORDAN				CALCOFI CRUISE 7510					95028
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
32 40.0N	117 35.0W	10/21/75	0852 GMT		32 37.0N	117 10.5W	10/20/75	2219 GMT			
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
1110M	330	6KT	1		191M	230	7KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.48	33.68	24.165	376.2	0.000	0	16.89	33.56	24.457	348.4	0.000
10	18.44	33.68	24.175	375.3	0.037	5	16.57	33.56	24.531	341.3	0.017
20	15.35	33.54	24.791	316.5	0.072	10	15.82	33.49	24.648	330.1	0.034
30	13.66	33.45	25.081	288.9	0.102	14	13.14	33.51	25.232	274.6	0.046
40	13.22	33.43	25.155	282.0	0.131						
50	12.55	33.43	25.286	269.4	0.158						
75	11.54	33.49	25.524	246.8	0.223						
100	10.54	33.61	25.796	221.0	0.282						
125	9.84	33.73	26.009	200.7	0.336						
150	9.34	33.88	26.208	181.8	0.384						
175	9.14	33.99	26.326	170.6	0.429						
200	8.83	34.03	26.407	162.9	0.472						
225	8.60	34.07	26.474	156.6	0.512						
250	8.42	34.10	26.525	151.7	0.552						
275	8.21	34.12	26.572	147.2	0.591						
300	7.99	34.13	26.613	143.3	0.628						
350	7.54	34.18	26.718	133.3	0.700						
400	7.02	34.20	26.807	124.9	0.768						
450	6.60	34.22	26.880	118.0	0.832						
500	6.28	34.24	26.938	112.5	0.893						
550	5.89	34.26	27.004	106.3	0.951						
600	5.63	34.28	27.051	101.7	1.007						
700	4.95	34.34	27.180	89.6	1.110						
800	4.51	34.38	27.261	81.9	1.204						
900	4.18	34.42	27.328	75.5	1.291						
1000	3.85	34.44	27.378	70.8	1.372						

95029		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 35.0N	117 14.5W	10/21/75	0120 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
45M	270	5KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.15	33.68	24.246	368.5	0.000
10	14.43	33.46	24.928	303.5	0.033
20	13.10	33.43	25.178	279.7	0.062
30	17.53	33.45	25.306	261.6	0.090
40	17.17	33.47	25.390	259.5	0.116

CALCOFI CRUISE 7510		95030			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 33.0N	117 18.5W	10/21/75	0255 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
140M	340	4KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.45	33.69	24.180	374.8	0.000
10	17.60	33.62	24.334	360.1	0.036
20	13.70	33.31	24.965	300.0	0.069
30	13.12	33.39	25.144	283.0	0.099
40	12.03	33.47	25.417	257.0	0.126
50	11.83	33.48	25.462	252.7	0.151
75	10.66	33.59	25.759	224.4	0.211
100	10.44	33.65	25.844	216.4	0.267
125	9.99	33.75	25.999	201.7	0.320

95031		RV DAVID STARR JORDAN			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 31.0N	117 22.5W	10/21/75	0429 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
925M	020	5KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.55	33.70	24.162	376.4	0.000
10	18.46	33.68	24.170	375.8	0.037
20	15.27	33.42	24.717	323.6	0.072
30	13.85	33.38	24.988	297.8	0.103
40	12.62	33.41	25.257	272.2	0.132
50	11.84	33.44	25.429	255.8	0.158
75	11.05	33.53	25.644	235.4	0.220
100	10.24	33.68	25.902	210.9	0.276
125	10.01	33.77	26.011	200.5	0.328
150	9.48	33.89	26.193	183.2	0.377
175	9.17	33.98	26.313	171.8	0.422
200	9.04	34.03	26.373	166.1	0.465
225	8.72	34.05	26.439	159.8	0.507
250	8.71	34.11	26.488	155.2	0.548
275	8.45	34.09	26.512	152.9	0.587
300	8.26	34.13	26.573	147.1	0.626
350	7.68	34.18	26.698	135.3	0.700
400	7.29	34.18	26.754	129.9	0.769
450	6.80	34.21	26.845	121.3	0.835
500	6.20	34.25	26.956	110.8	0.897

CALCOFI CRUISE 7510		95032			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 29.0N	117 27.0W	10/21/75	0612 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
925M	060	6KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.51	33.75	24.210	371.9	0.000
10	17.59	33.66	24.367	357.0	0.036
20	14.37	33.40	24.895	306.7	0.069
30	13.18	33.42	25.155	281.9	0.099
40	12.24	33.43	25.346	263.7	0.126
50	11.78	33.45	25.448	254.0	0.152
75	10.70	33.57	25.737	226.6	0.212
100	10.19	33.69	25.918	209.3	0.267
125	9.99	33.75	25.999	201.7	0.319
150	9.66	33.87	26.148	187.5	0.369
175	9.10	33.95	26.301	172.9	0.415
200	8.97	34.01	26.369	166.5	0.458
225	8.76	34.06	26.441	159.7	0.500
250	8.57	34.10	26.502	153.9	0.540
275	8.32	34.11	26.548	149.5	0.579
300	8.06	34.13	26.603	144.3	0.617
350	7.49	34.18	26.726	132.7	0.689
400	6.91	34.20	26.822	123.5	0.756
450	6.39	34.24	26.924	113.9	0.819
500	6.12	34.27	26.982	108.3	0.877

97032		RV ALEXANDER AGASSIZ			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 12.0N	117 15.0W	10/27/75	0820 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1387M	010	4KT	0	270 2 5	
Z	T	S	SIGMA T	DT	DD
0	17.34	33.72	24.472	346.9	0.000
10	16.53	33.67	24.624	332.4	0.033
20	13.43	33.53	25.189	278.6	0.064
30	12.51	33.54	25.379	260.6	0.091
40	11.60	33.55	25.559	243.5	0.116
50	11.20	33.57	25.648	235.0	0.140
75	10.63	33.65	25.811	219.5	0.198
100	9.81	33.78	26.052	196.5	0.250
125	9.61	33.96	26.226	180.1	0.298
150	9.26	34.05	26.354	168.0	0.342
175	8.88	34.11	26.461	157.7	0.383
200	8.53	34.15	26.547	149.6	0.423
225	8.41	34.18	26.589	145.6	0.461
250	8.14	34.20	26.646	140.2	0.497
275	7.88	34.21	26.692	135.8	0.533
300	7.84	34.25	26.729	132.3	0.568
350	7.30	34.26	26.815	124.1	0.635
400	6.80	34.28	26.900	116.1	0.698
450	6.43	34.31	26.973	109.1	0.757
500	6.03	34.33	27.041	102.7	0.813
550	5.58	34.36	27.121	95.2	0.866
600	5.42	34.38	27.156	91.8	0.917
700	4.82	34.42	27.258	82.2	1.011
800	4.51	34.45	27.316	76.6	1.098
900	4.10	34.48	27.384	70.2	1.180
1000	3.84	34.51	27.435	65.4	1.257

CALCOFI CRUISE 7510		97035			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 06.0N	117 27.5W	10/27/75	0529 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1295M	330	11KT	0	330 2 4	
Z	T	S	SIGMA T	DT	DD
0	17.35	33.75	24.493	344.9	0.000
10	17.35	33.75	24.493	344.9	0.034
20	17.35	33.75	24.493	344.9	0.069
30	16.43	33.67	24.648	330.2	0.102
40	13.43	33.56	25.213	276.4	0.133
50	11.97	33.53	25.475	251.5	0.159
75	10.46	33.60	25.802	220.4	0.219
100	10.00	33.77	26.013	200.3	0.272
125	9.40	33.91	26.222	180.5	0.320
150	9.01	33.96	26.323	170.8	0.365
175	8.49	34.07	26.491	154.9	0.406
200	8.27	34.14	26.579	146.6	0.445
225	8.06	34.19	26.650	139.8	0.481
250	7.88	34.21	26.692	135.8	0.517
275	7.63	34.23	26.744	130.9	0.551
300	7.59	34.26	26.774	128.1	0.585
350	7.17	34.28	26.849	120.9	0.650
400	6.80	34.30	26.916	114.6	0.711
450	6.44	34.31	26.972	109.3	0.771
500	5.96	34.32	27.042	102.6	0.827
550	5.70	34.35	27.098	97.3	0.880
600	5.42	34.38	27.156	91.8	0.931
700	4.95	34.42	27.243	83.6	1.027
800	4.60	34.44	27.298	78.3	1.116
900	4.21	34.47	27.364	72.1	1.199
1000	3.93	34.49	27.410	67.8	1.278

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
31 56.5N	117 48.5W	10/27/75	0145 GMT	1332M	310	16KT	2	300 3 5							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	18.15	33.780	5.69					361.2	0	18.15	33.780	5.69	24.322	361.2	0.000
10	18.15	33.779	5.73					361.3	10	18.15	33.779	5.73	24.321	361.3	0.036
25	17.01	33.739	5.92					338.1	20	17.61	33.763	5.85	24.441	349.9	0.071
40	13.29	33.640	6.00					267.9	30	15.83	33.691	5.94	24.800	315.7	0.105
60	10.72	33.690	3.89					218.1	50	11.72	33.656	4.98	25.619	237.8	0.160
80	10.04	33.768	3.64					201.1	75	10.10	33.749	3.70	25.980	203.5	0.216
100	9.78	33.864	3.16					189.9	100	9.78	33.864	3.16	26.123	189.9	0.265
125	9.22	33.994	2.73					171.5	125	9.22	33.994	2.73	26.316	171.5	0.311
149	8.95	34.059	2.51					162.6	150	8.93	34.061	2.50	26.414	162.3	0.353
174	8.56	34.078	2.46					155.4	200	8.21	34.097	2.26	26.554	148.9	0.433
208	8.12	34.103	2.19					147.1	250	7.76	34.150	1.68	26.661	138.7	0.507
272	7.61	34.174	1.42					134.8	300	7.32	34.196	1.17	26.761	129.2	0.576
363	6.73	34.238	0.77					118.3	400	6.55	34.265	0.60	26.921	114.1	0.703
461	6.33	34.302	0.41					108.5	500	6.11	34.317	0.33	27.020	104.7	0.819
587	5.59	34.346	0.25					96.3	600	5.51	34.351	0.25	27.122	95.0	0.926
714	4.88	34.401	0.28					84.2	700	4.95	34.395	0.27	27.223	85.5	1.024
857	4.34	34.461	0.45					74.1	800	4.53	34.439	0.37	27.304	77.7	1.113
1011	3.86	34.500	0.59					66.3	1000	3.89	34.497	0.58	27.420	66.8	1.275

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RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 56.5N	117 48.5W	10/27/75	0054 GMT	31 36.0N	118 30.5W	10/26/75	1830 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
1332M	310	16KT	2	300 3 5	2322M	320	17KT	1	330 6 8		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.13	33.78	24.327	360.7	0.000	0	16.41	33.65	24.637	331.2	0.000
10	18.13	33.78	24.327	360.7	0.036	10	16.41	33.65	24.637	331.2	0.033
20	18.13	33.78	24.327	360.7	0.072	20	16.38	33.65	24.644	330.6	0.066
30	14.93	33.74	25.037	293.2	0.104	30	14.43	33.50	24.959	300.5	0.097
40	11.88	33.65	25.584	241.1	0.131	40	12.48	33.45	25.316	266.7	0.126
50	10.79	33.69	25.814	219.2	0.154	50	11.71	33.50	25.500	249.1	0.152
75	10.04	33.77	26.006	201.0	0.207	75	11.10	33.57	25.666	233.3	0.212
100	9.61	33.90	26.179	184.5	0.256	100	10.14	33.75	25.974	204.1	0.268
125	9.07	34.05	26.384	165.1	0.300	125	9.45	33.92	26.221	180.5	0.316
150	8.66	34.07	26.465	157.4	0.341	150	9.17	34.01	26.337	169.5	0.361
175	8.14	34.09	26.560	148.4	0.380	175	8.86	34.10	26.456	158.2	0.402
200	7.99	34.12	26.605	144.0	0.418	200	8.92	34.18	26.510	153.2	0.442
225	7.78	34.15	26.660	138.9	0.454	225	8.67	34.19	26.557	148.7	0.481
250	7.53	34.18	26.720	133.2	0.489	250	8.27	34.20	26.626	142.1	0.518
275	7.37	34.20	26.758	129.5	0.523	275	7.97	34.22	26.687	136.3	0.554
300	7.49	34.25	26.780	127.4	0.556	300	7.85	34.25	26.728	132.4	0.589
350	6.90	34.24	26.855	120.3	0.621	350	7.40	34.24	26.785	127.0	0.657
400	6.54	34.29	26.943	112.0	0.681	400	6.91	34.26	26.870	119.0	0.721
450	6.30	34.30	26.983	108.3	0.740	450	6.60	34.28	26.927	113.5	0.783
500	5.89	34.31	27.043	102.6	0.796	500	6.24	34.30	26.990	107.5	0.841
550	5.69	34.34	27.092	97.9	0.849	550	5.88	34.31	27.044	102.4	0.897
600	5.51	34.37	27.137	93.6	0.901	600	5.61	34.34	27.101	97.0	0.951
700	4.87	34.42	27.252	82.7	0.996	700	5.02	34.40	27.219	85.9	1.050
800	4.50	34.45	27.317	76.5	1.084	800	4.70	34.42	27.271	80.9	1.142
900	4.13	34.48	27.381	70.5	1.166	900	4.36	34.46	27.340	74.3	1.228
1000	3.83	34.50	27.428	66.1	1.243	1000	4.08	34.49	27.394	69.3	1.309

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RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

97070

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 16.0N	119 10.0W	10/26/75	1133 GMT	30 55.0N	119 51.0W	10/26/75	0552 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3738M	320	15KT	1	320 6 7	3738M	330	14KT	0	320 6 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.93	33.62	24.493	344.9	0.000	0	17.47	33.82	24.518	342.5	0.000
10	16.93	33.62	24.493	344.9	0.034	10	17.47	33.82	24.518	342.5	0.034
20	16.87	33.62	24.507	343.6	0.068	20	17.47	33.82	24.518	342.5	0.068
30	16.18	33.55	24.613	333.5	0.102	30	13.83	33.77	25.292	268.8	0.099
40	12.93	33.37	24.964	300.1	0.134	40	12.43	33.68	25.503	248.8	0.125
50	17.28	33.35	25.277	270.4	0.163	50	10.96	33.69	25.784	222.1	0.148
75	11.48	33.62	25.635	236.2	0.227	75	9.60	33.87	26.158	186.6	0.200
100	9.98	33.77	26.016	200.0	0.282	100	9.27	33.99	26.305	172.6	0.245
125	9.56	33.86	26.156	186.7	0.330	125	8.73	34.07	26.453	158.5	0.287
150	9.21	33.95	26.284	174.6	0.376	150	8.45	34.09	26.512	152.9	0.327
175	8.65	34.03	26.435	160.3	0.419	175	8.10	34.11	26.581	146.4	0.365
200	8.36	34.09	26.526	151.6	0.459	200	7.93	34.14	26.630	141.7	0.402
225	7.95	34.10	26.596	145.0	0.497	225	7.65	34.17	26.695	135.6	0.437
250	7.35	34.06	26.651	139.7	0.533	250	7.46	34.19	26.738	131.5	0.472
275	7.08	34.09	26.713	133.9	0.569	275	7.17	34.20	26.786	126.9	0.505
300	6.81	34.12	26.773	128.1	0.602	300	7.01	34.23	26.832	122.5	0.537
350	6.63	34.18	26.845	121.4	0.667	350	6.56	34.24	26.901	116.0	0.599
400	6.20	34.23	26.940	112.3	0.728	400	6.23	34.29	26.984	108.2	0.658
450	5.89	34.26	27.004	106.3	0.786	450	5.90	34.32	27.050	101.9	0.713
500	5.65	34.28	27.049	102.0	0.841	500	5.52	34.34	27.112	96.0	0.766
550	5.47	34.35	27.126	94.6	0.893	550	5.35	34.37	27.157	91.8	0.816
600	5.17	34.36	27.170	90.5	0.943	600	5.06	34.39	27.207	87.0	0.864
700	4.74	34.41	27.259	82.1	1.037	700	4.71	34.43	27.278	80.2	0.955
800	4.40	34.44	27.320	76.2	1.124	800	4.33	34.46	27.344	74.0	1.040
900	4.12	34.47	27.374	71.2	1.206	900	3.95	34.49	27.407	68.0	1.119
1000	3.86	34.51	27.432	65.6	1.283	1000	3.68	34.51	27.451	63.9	1.193

97080						RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7510						97090					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
30 34.0N		120 33.0W		10/26/75		0014 GMT		30 14.5N		121 10.0W		10/25/75		1831 GMT		30 14.5N		121 10.0W		10/25/75		1831 GMT	
BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
4117M		340 15KT		0		340 4 5		3926M		010 15KT		1		340 6 7		3926M		010 15KT		1		340 6 7	
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU
0	17.61	33.81	24.477	346.5	0.000	0	16.54	33.58	24.553	339.2	0.000	0	16.54	33.58	24.553	339.2	0.000	0	16.54	33.58	24.553	339.2	0.000
10	17.61	33.81	24.477	346.5	0.034	10	16.51	33.58	24.560	338.5	0.033	10	16.51	33.58	24.560	338.5	0.033	10	16.51	33.58	24.560	338.5	0.033
20	17.56	33.81	24.488	345.3	0.069	20	16.50	33.58	24.562	338.3	0.067	20	16.50	33.58	24.562	338.3	0.067	20	16.50	33.58	24.562	338.3	0.067
30	17.46	33.80	24.505	343.8	0.103	30	16.49	33.58	24.565	338.1	0.101	30	16.49	33.58	24.565	338.1	0.101	30	16.49	33.58	24.565	338.1	0.101
40	14.68	33.57	24.960	300.5	0.136	40	16.49	33.58	24.565	338.1	0.135	40	16.49	33.58	24.565	338.1	0.135	40	16.49	33.58	24.565	338.1	0.135
50	13.83	33.52	25.100	287.1	0.165	50	15.47	33.51	24.742	321.2	0.168	50	15.47	33.51	24.742	321.2	0.168	50	15.47	33.51	24.742	321.2	0.168
75	11.23	33.57	25.642	235.6	0.231	75	14.58	33.65	25.043	292.6	0.245	75	14.58	33.65	25.043	292.6	0.245	75	14.58	33.65	25.043	292.6	0.245
100	10.20	33.73	25.948	206.5	0.287	100	12.56	33.58	25.400	258.6	0.315	100	12.56	33.58	25.400	258.6	0.315	100	12.56	33.58	25.400	258.6	0.315
125	9.55	33.91	26.197	182.8	0.336	125	11.11	33.61	25.695	230.6	0.377	125	11.11	33.61	25.695	230.6	0.377	125	11.11	33.61	25.695	230.6	0.377
150	9.33	34.04	26.334	169.8	0.381	150	9.90	33.72	25.991	202.4	0.432	150	9.90	33.72	25.991	202.4	0.432	150	9.90	33.72	25.991	202.4	0.432
175	8.93	34.07	26.422	161.5	0.423	175	9.34	33.85	26.185	184.0	0.481	175	9.34	33.85	26.185	184.0	0.481	175	9.34	33.85	26.185	184.0	0.481
200	8.45	34.12	26.536	150.7	0.463	200	8.81	33.96	26.355	167.8	0.526	200	8.81	33.96	26.355	167.8	0.526	200	8.81	33.96	26.355	167.8	0.526
225	8.37	34.19	26.603	144.3	0.501	225	8.45	34.00	26.442	159.6	0.567	225	8.45	34.00	26.442	159.6	0.567	225	8.45	34.00	26.442	159.6	0.567
250	7.90	34.18	26.666	138.3	0.537	250	8.04	34.03	26.527	151.4	0.607	250	8.04	34.03	26.527	151.4	0.607	250	8.04	34.03	26.527	151.4	0.607
275	7.68	34.16	26.682	136.7	0.572	275	7.73	34.03	26.573	147.1	0.646	275	7.73	34.03	26.573	147.1	0.646	275	7.73	34.03	26.573	147.1	0.646
300	6.96	34.11	26.745	130.8	0.607	300	7.41	34.04	26.627	142.0	0.683	300	7.41	34.04	26.627	142.0	0.683	300	7.41	34.04	26.627	142.0	0.683
350	6.42	34.14	26.841	121.7	0.673	350	6.55	34.06	26.761	129.3	0.753	350	6.55	34.06	26.761	129.3	0.753	350	6.55	34.06	26.761	129.3	0.753
400	6.12	34.19	26.919	114.3	0.734	400	6.08	34.12	26.869	119.0	0.818	400	6.08	34.12	26.869	119.0	0.818	400	6.08	34.12	26.869	119.0	0.818
450	5.69	34.24	27.013	105.4	0.792	450	5.76	34.18	26.957	110.7	0.878	450	5.76	34.18	26.957	110.7	0.878	450	5.76	34.18	26.957	110.7	0.878
500	5.46	34.29	27.080	99.0	0.846	500	5.51	34.25	27.042	102.6	0.935	500	5.51	34.25	27.042	102.6	0.935	500	5.51	34.25	27.042	102.6	0.935
550	5.24	34.32	27.130	94.3	0.898	550	5.32	34.29	27.097	97.4	0.988	550	5.32	34.29	27.097	97.4	0.988	550	5.32	34.29	27.097	97.4	0.988
600	5.08	34.36	27.180	89.5	0.947	600	5.19	34.34	27.152	92.2	1.039	600	5.19	34.34	27.152	92.2	1.039	600	5.19	34.34	27.152	92.2	1.039
700	4.71	34.42	27.270	81.0	1.039	700	4.77	34.41	27.256	82.4	1.133	700	4.77	34.41	27.256	82.4	1.133	700	4.77	34.41	27.256	82.4	1.133
800	4.38	34.46	27.338	74.6	1.125	800	4.44	34.44	27.316	76.7	1.221	800	4.44	34.44	27.316	76.7	1.221	800	4.44	34.44	27.316	76.7	1.221
900	4.04	34.48	27.390	69.6	1.205	900	4.11	34.47	27.375	71.1	1.303	900	4.11	34.47	27.375	71.1	1.303	900	4.11	34.47	27.375	71.1	1.303
1000	3.79	34.51	27.440	64.9	1.281	1000	3.82	34.50	27.429	66.0	1.380	1000	3.82	34.50	27.429	66.0	1.380	1000	3.82	34.50	27.429	66.0	1.380

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7510						97090													
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
30 14.5N		121 10.0W		10/25/75		1913 GMT		3926M		010 15KT		1		340 6 7		30 14.5N		121 10.0W		10/25/75		1831 GMT							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DU		
1	16.60	33.563	5.71					341.8	0	16.60	33.563	5.71	24.526	341.8	0.000	0	16.60	33.563	5.71	24.526	341.8	0.000	0	16.60	33.563	5.71	24.526	341.8	0.000
11	16.56	33.560	5.72					341.1	10	16.56	33.561	5.71	24.533	341.1	0.034	10	16.56	33.561	5.71	24.533	341.1	0.034	10	16.56	33.561	5.71	24.533	341.1	0.034
26	16.54	33.561	5.71					340.6	20	16.54	33.561	5.71	24.537	340.6	0.068	20	16.54	33.561	5.71	24.537	340.6	0.068	20	16.54	33.561	5.71	24.537	340.6	0.068
41	16.52	33.563	5.72					340.0	30	16.52	33.563	5.72	24.540	340.0	0.102	30	16.52	33.563	5.72	24.540	340.0	0.102	30	16.52	33.563	5.72	24.540	340.0	0.102
61	15.43	33.469	6.09					323.4	50	16.07	33.511	5.89	24.605	334.2	0.170	50	16.07	33.511	5.89	24.605	334.2	0.170	50	16.07	33.511	5.89	24.605	334.2	0.170
81	14.78	33.636	5.91					297.7	75	14.98	33.586	5.99	24.906	305.6	0.250	75	14.98	33.586	5.99	24.906	305.6	0.250	75	14.98	33.586	5.99	24.906	305.6	0.250
101	13.51	33.565	5.73					277.6	100	13.58	33.572	5.73	25.190	278.6	0.324	100	13.58	33.572	5.73	25.190	278.6	0.324	100	13.58	33.572	5.73	25.190	278.6	0.324
125	12.04	33.532	5.44					252.6	125	12.04	33.532	5.44	25.463	252.6	0.391	125	12.04	33.532	5.44	25.463	252.6	0.391	125	12.04	33.532	5.44	25.463	252.6	0.391
150	10.44	33.633	4.67					217.6	150	10.44	33.633	4.67	25.831	217.6	0.450	150	10.44	33.633	4.67	25.831	217.6	0.450	150	10.44	33.633	4.67	25.831	217.6	0.450
175	9.70	33.751	4.07					197.0	200	9.16	33.869	3.70	26.228	179.9	0.552	200	9.16	33.869	3.70	26.228	179.9	0.552	200	9.16	33.869	3.70	26.228	179.9	0.552
209	9.00	33.906	3.61					174.7	250	8.31	33.990	3.17	26.454	158.4	0.638	250	8.31	33.990	3.17	26.454	158.4	0.638	250	8.31	33.990	3.17	26.454	158.4	0.638
277	7.91	34.011	2.89					151.0	300	7.50	34.025	2.56	26.602	144.4	0.716	300	7.50	34.025	2.56	26.602	144.4	0.716	300	7.50	34.025	2.56	26.602	144.4	0.716
364	6.50	34.057	1.68					128.9	400	6.18	34.095	1.28	26.836	122.2	0.855	400	6.18	34.095	1.28	26.836	122.2	0.855	400	6.18	34.095	1.28	26.836	122.2	0.855
461	5.84	34.166	0.76					112.7	500	5.64	34.212	0.53	26.996	107.0	0.975	500	5.64	34.212	0.53	26.996	107.0	0.975	500	5.64	34.212	0.53	26.996	107.0	0.975
587	5.28	34.303	0.24					96.0	600	5.22	34.313	0.23	27.126	94.7	1.083	600	5.22	34.313	0.23	27.126	94.7	1.083	600	5.22	34.313	0.23	27.126	94.7	1.083
715	4.82	34.382	0.21					85.0	700	4.86	34.375	0.21	27.216	86.1	1.180	700	4.86	34.375	0.21	27.216	86.1	1.180	700	4.86	34.375	0.21	27.216	86.1	1.180
858	4.36	34.444	0.37					75.6	800	4.54	34.422	0.29	27.290	79.1	1.271	800	4.54	34.422	0.29	27.290	79.1	1.271	800	4.54	34.422	0.29	27.290	79.1	1.271</

RV ALEXANDER AGASSIZ

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
31 20.5N	117 27.0W	10/24/75	0725 GMT	2222M	340	15KT	1	280 6 8	
Z	T	S	02	04	S103	NO2	NO3	DT	DD
1	18.00	33.704	5.54					363.2	0
11	17.99	33.702	5.55					363.1	10
26	17.03	33.619	5.91					347.3	20
41	13.76	33.416	6.34					293.4	30
61	11.86	33.454	5.40					255.1	50
81	10.96	33.522	4.95					234.5	75
101	10.54	33.678	4.03					215.9	100
126	10.00	33.781	3.49					199.5	125
150	9.46	33.895	3.18					182.5	150
175	9.16	34.008	2.72					169.5	200
209	8.63	34.076	2.55					156.6	250
272	8.05	34.170	1.69					141.2	300
364	7.30	34.249	0.92					125.0	400
460	6.40	34.306	0.45					109.1	500
586	5.68	34.356	0.31					96.6	600
712	5.04	34.364	0.41					88.8	700
856	4.52	34.442	0.38					77.4	800
1009	3.99	34.490	0.58					68.4	1000

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RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
31 20.5N	117 27.0W	10/24/75	0636 GMT	30 59.0N	118 05.0W	10/24/75	1235 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
2222M	340	15KT	1	280 6 8	1707M	340	12KT	0	300 7 7		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.01	33.70	24.295	363.7	0.000	0	17.33	33.58	24.368	356.9	0.000
10	18.01	33.70	24.295	363.7	0.036	10	17.33	33.58	24.368	356.9	0.035
20	18.01	33.70	24.295	363.7	0.072	20	17.33	33.58	24.368	356.9	0.071
30	16.23	33.60	24.640	330.9	0.107	30	17.31	33.57	24.365	357.1	0.107
40	13.33	33.41	25.117	285.5	0.138	40	15.25	33.48	24.767	318.8	0.141
50	12.43	33.42	25.302	267.9	0.166	50	14.16	33.42	24.955	301.0	0.172
75	10.88	33.52	25.666	233.3	0.229	75	12.58	33.44	25.288	269.2	0.243
100	10.21	33.65	25.884	212.6	0.285	100	11.60	33.56	25.567	242.7	0.308
125	9.75	33.84	26.109	191.2	0.336	125	10.16	33.63	25.877	213.3	0.366
150	9.20	34.00	26.324	170.7	0.382	150	9.67	33.79	26.084	193.6	0.417
175	8.95	34.05	26.403	163.3	0.425	175	9.26	33.93	26.260	176.9	0.464
200	8.55	34.09	26.497	154.3	0.465	200	9.07	34.03	26.368	166.5	0.508
225	8.31	34.12	26.558	148.6	0.504	225	8.65	34.09	26.482	155.8	0.549
250	8.00	34.15	26.628	142.0	0.541	250	8.25	34.12	26.567	147.8	0.588
275	7.85	34.21	26.697	135.4	0.577	275	7.96	34.16	26.641	140.7	0.626
300	7.70	34.23	26.734	131.8	0.612	300	7.79	34.20	26.698	135.3	0.661
350	7.30	34.25	26.807	124.9	0.679	350	7.29	34.22	26.785	127.0	0.730
400	6.87	34.28	26.891	117.0	0.742	400	6.98	34.28	26.876	118.4	0.794
450	6.51	34.30	26.955	110.9	0.802	450	6.61	34.30	26.942	112.1	0.855
500	6.10	34.32	27.024	104.3	0.859	500	6.21	34.32	27.010	105.7	0.913
550	5.90	34.34	27.065	100.4	0.914	550	5.99	34.34	27.054	101.5	0.968
600	5.64	34.36	27.113	95.9	0.967	600	5.62	34.36	27.116	95.6	1.021
700	5.09	34.39	27.203	87.4	1.066	700	5.04	34.40	27.217	86.1	1.120
800	4.70	34.43	27.279	80.1	1.158	800	4.52	34.44	27.307	77.5	1.210
900	4.32	34.45	27.337	74.7	1.245	900	4.22	34.47	27.363	72.2	1.293
1000	3.97	34.49	27.405	68.2	1.325	1000	3.97	34.49	27.405	68.2	1.372

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RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
30 39.0N	118 47.5W	10/24/75	1838 GMT	30 20.5N	119 27.5W	10/25/75	0005 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3358M	360	9KT	0	340 9 9	3832M	360	12KT	0	320 8 8		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.66	33.50	24.228	370.2	0.000	0	16.89	33.65	24.525	341.8	0.000
10	17.58	33.50	24.247	368.4	0.036	10	16.87	33.65	24.530	341.4	0.034
20	17.57	33.50	24.249	368.2	0.073	20	16.72	33.65	24.565	338.1	0.068
30	17.56	33.50	24.252	367.9	0.110	30	16.68	33.65	24.574	337.2	0.102
40	17.08	33.49	24.358	357.8	0.147	40	15.10	33.57	24.869	309.1	0.134
50	15.53	33.44	24.675	327.6	0.181	50	12.49	33.34	25.229	274.9	0.163
75	13.40	33.34	25.049	292.0	0.259	75	11.17	33.41	25.529	246.3	0.229
100	10.88	33.45	25.612	238.5	0.326	100	10.58	33.67	25.836	217.2	0.287
125	10.71	33.63	25.782	222.3	0.384	125	9.60	33.83	26.126	189.5	0.339
150	9.68	33.75	26.051	196.7	0.437	150	8.99	33.89	26.272	175.7	0.385
175	9.12	33.85	26.220	180.7	0.485	175	8.59	33.95	26.382	165.3	0.428
200	8.54	33.97	26.405	163.1	0.529	200	8.20	34.01	26.488	155.2	0.469
225	8.20	33.99	26.472	156.7	0.570	225	7.75	34.05	26.586	145.9	0.508
250	7.71	34.01	26.560	148.3	0.609	250	7.56	34.06	26.621	142.5	0.545
275	7.26	34.05	26.656	139.2	0.646	275	7.20	34.07	26.680	137.0	0.581
300	7.19	34.08	26.690	136.1	0.682	300	6.92	34.08	26.727	132.5	0.616
350	6.62	34.12	26.799	125.7	0.749	350	6.38	34.13	26.838	121.9	0.682
400	6.20	34.16	26.885	117.5	0.813	400	6.23	34.22	26.929	113.4	0.743
450	5.84	34.21	26.970	109.4	0.872	450	5.85	34.24	26.993	107.3	0.801
500	5.58	34.25	27.034	103.4	0.929	500	5.59	34.28	27.056	101.3	0.856
550	5.34	34.31	27.104	96.7	0.982	550	5.27	34.30	27.111	96.1	0.909
600	5.18	34.35	27.161	91.4	1.032	600	4.93	34.34	27.182	89.4	0.954
700	4.80	34.39	27.236	84.2	1.127	700	4.62	34.38	27.249	83.1	1.052
800	4.47	34.43	27.305	77.7	1.216	800	4.43	34.44	27.317	76.6	1.139
900	4.12	34.46	27.366	71.9	1.299	900	4.12	34.46	27.366	71.9	1.227
1000	3.83	34.49	27.420	66.8	1.377	1000	3.86	34.48	27.409	67.9	1.300

100080		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				100090	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
30 01.5N	120 06.0W	10/25/75	0550 GMT		29 42.0N	120 43.5W	10/25/75	1253 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3642M	040	15KT	0	320 6 7		3832M	360	16KT	0	340 4 8	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.73	33.59	24.517	342.7	0.000	0	18.22	33.75	24.282	365.0	0.000
10	16.73	33.59	24.517	342.7	0.034	10	18.22	33.75	24.282	365.0	0.036
20	16.73	33.59	24.517	342.7	0.068	20	18.22	33.75	24.282	365.0	0.073
30	16.73	33.59	24.517	342.7	0.102	30	18.23	33.75	24.280	365.2	0.109
40	16.68	33.58	24.521	342.3	0.137	40	18.23	33.75	24.280	365.2	0.146
50	14.07	33.30	24.881	308.0	0.169	50	18.23	33.75	24.280	365.2	0.182
75	12.15	33.23	25.209	276.8	0.243	75	16.90	34.02	24.806	315.1	0.268
100	11.13	33.43	25.552	244.2	0.309	100	16.26	34.19	25.085	288.5	0.344
125	10.15	33.65	25.894	211.6	0.366	125	14.76	34.07	25.327	265.5	0.414
150	9.24	33.80	26.162	186.2	0.417	150	12.56	33.88	25.632	236.5	0.478
175	8.67	33.91	26.338	169.5	0.462	175	10.58	33.77	25.913	209.8	0.535
200	8.15	33.99	26.480	156.0	0.503	200	10.01	33.95	26.151	187.2	0.585
225	7.80	34.04	26.571	147.4	0.542	225	9.65	34.09	26.321	171.1	0.631
250	7.41	34.07	26.651	139.8	0.579	250	8.97	34.13	26.463	157.6	0.673
275	7.15	34.08	26.695	135.6	0.615	275	8.55	34.16	26.552	149.1	0.713
300	6.75	34.10	26.766	128.9	0.649	300	8.26	34.19	26.620	142.7	0.751
350	6.33	34.12	26.837	122.1	0.714	350	7.14	34.14	26.743	130.9	0.822
400	5.94	34.18	26.934	112.9	0.775	400	6.60	34.16	26.833	122.5	0.888
450	5.62	34.21	26.998	106.8	0.833	450	6.32	34.24	26.933	113.0	0.950
500	5.49	34.27	27.061	100.8	0.888	500	5.95	34.26	26.996	107.0	1.008
550	5.32	34.31	27.113	95.9	0.940	550	5.67	34.29	27.055	101.4	1.064
600	4.92	34.34	27.183	89.3	0.990	600	5.36	34.32	27.116	95.6	1.117
700	4.63	34.39	27.255	82.4	1.082	700	4.98	34.38	27.208	86.9	1.215
800	4.26	34.44	27.335	74.8	1.169	800	4.61	34.43	27.289	79.2	1.307
900	3.99	34.46	27.379	70.6	1.249	900	4.33	34.46	27.344	74.0	1.392
1000	3.84	34.50	27.427	66.2	1.326	1000	4.04	34.49	27.398	68.9	1.472

103030		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				103035	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
31 06.0N	116 24.0W	10/23/75	0007 GMT		30 56.5N	116 45.0W	10/22/75	1927 GMT			
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
63M	310	6KT	2	300 5 6		1849M	310	15KT	2	300 4 5	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.91	33.72	24.335	360.0	0.000	0	18.44	33.67	24.167	376.0	0.000
10	17.70	33.69	24.363	357.3	0.035	10	18.44	33.67	24.167	376.0	0.037
20	14.83	33.53	24.897	306.5	0.069	20	18.42	33.66	24.164	376.3	0.075
30	13.84	33.45	25.044	292.5	0.099	30	18.34	33.65	24.176	375.1	0.112
40	12.39	33.50	25.372	261.3	0.126	40	16.17	33.48	24.562	338.4	0.148
50	11.84	33.54	25.507	248.4	0.152	50	14.18	33.36	24.904	305.8	0.181
						75	12.14	33.47	25.396	259.0	0.252
						100	10.66	33.56	25.736	226.6	0.313
						125	10.10	33.69	25.934	207.9	0.368
						150	9.31	33.83	26.174	185.0	0.418
						175	8.76	33.98	26.378	165.6	0.462
						200	8.80	34.07	26.443	159.5	0.504
						225	8.57	34.13	26.525	151.6	0.544
						250	8.36	34.17	26.589	145.6	0.582
						275	7.78	34.16	26.668	138.1	0.618
						300	7.88	34.23	26.708	134.3	0.654
						350	7.39	34.29	26.826	123.1	0.721
						400	6.96	34.29	26.886	117.4	0.784
						450	6.39	34.31	26.979	108.6	0.844
						500	6.00	34.32	27.037	103.1	0.900
						550	5.67	34.35	27.102	97.0	0.953
						600	5.43	34.37	27.147	92.7	1.004
						700	4.89	34.41	27.242	83.7	1.100
						800	4.45	34.45	27.323	76.0	1.188
						900	4.15	34.47	27.371	71.5	1.270
						1000	3.83	34.50	27.428	66.1	1.347

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
30 46.5N		117 04.0W		10/22/75		1156 GMT			1651M		340		14KT		2		330	
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD			
0	18.46	33.725	5.51					372.5	0	18.46	33.725	5.51	24.204	372.5	0.000			
10	18.46	33.722	5.54					372.7	10	18.46	33.722	5.54	24.201	372.7	0.037			
24	18.46	33.720	5.53					372.9	20	18.46	33.722	5.53	24.200	372.8	0.074			
39	16.81	33.525	5.88					349.2	30	17.94	33.654	5.65	24.275	365.7	0.111			
59	13.44	33.297	6.28					295.9	50	14.90	33.367	6.16	24.754	320.1	0.180			
79	12.24	33.417	5.73					264.7	75	12.38	33.385	5.87	25.282	269.8	0.254			
98	11.29	33.512	5.17					240.9	100	11.19	33.522	5.11	25.611	238.6	0.318			
123	10.22	33.635	4.45					213.9	125	10.14	33.650	4.38	25.894	211.6	0.375			
147	9.45	33.800	3.75					189.4	150	9.37	33.816	3.69	26.151	187.2	0.426			
171	9.00	33.909	3.35					174.5	200	8.75	34.055	2.66	26.438	159.9	0.514			
205	8.72	34.077	2.55					157.8	250	8.18	34.172	1.98	26.616	143.0	0.592			
267	7.98	34.188	1.84					138.8	300	7.68	34.228	1.46	26.735	131.8	0.663			
358	7.21	34.271	0.88					122.1	400	6.81	34.283	0.76	26.901	116.0	0.792			
454	6.34	34.294						109.2	500	6.06	34.318	0.47	27.027	104.1	0.909			
578	5.69	34.362	0.26					96.3	600	5.58	34.373	0.27	27.131	94.2	1.015			
703	5.09	34.367	0.41						700	5.10	34.416	0.40	27.222	85.6	1.113			
845	4.43	34.452	0.39						800	4.62	34.442	0.39	27.297	78.4	1.203			
1000	3.99	34.488	0.58					68.5	1000	3.99	34.488	0.58	27.402	68.5	1.368			

103040

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

103050

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			LATITUDE		LONGITUDE		MO/DAY/YR		START TIME				
30 46.5N		117 04.0W		10/22/75		1109 GMT			30 26.5N		117 43.0W		10/22/75		0517 GMT				
BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
1651M		340		14KT		2		330		2791M		300		11KT		2		340 9 10	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD								
0	18.47	33.72	24.197	373.1	0.000	0	17.91	33.56	24.213	371.6	0.000								
10	18.47	33.72	24.197	373.1	0.037	10	17.91	33.56	24.213	371.6	0.037								
20	18.47	33.72	24.197	373.1	0.074	20	17.77	33.56	24.247	368.4	0.074								
30	18.47	33.72	24.197	373.1	0.112	30	17.71	33.55	24.254	367.7	0.111								
40	14.83	33.38	24.781	317.5	0.146	40	17.03	33.54	24.408	353.0	0.147								
50	13.93	33.29	24.902	306.0	0.178	50	15.86	33.47	24.624	332.5	0.181								
75	12.22	33.40	25.327	265.6	0.249	75	13.21	33.42	25.149	282.5	0.258								
100	10.93	33.51	25.650	234.9	0.312	100	12.08	33.51	25.438	255.0	0.326								
125	9.80	33.70	25.992	202.3	0.368	125	10.49	33.63	25.820	218.7	0.386								
150	9.20	33.86	26.215	181.1	0.416	150	9.58	33.76	26.075	194.4	0.438								
175	8.87	33.97	26.353	168.0	0.461	175	8.96	33.93	26.308	172.3	0.485								
200	8.70	34.09	26.474	156.5	0.502	200	8.76	34.03	26.418	161.9	0.528								
225	8.46	34.15	26.558	148.6	0.541	225	8.39	34.08	26.514	152.7	0.568								
250	8.00	34.17	26.643	140.5	0.578	250	8.07	34.11	26.586	145.9	0.606								
275	7.95	34.27	26.729	132.3	0.614	275	7.95	34.16	26.643	140.5	0.643								
300	7.75	34.27	26.758	129.5	0.648	300	7.55	34.16	26.701	135.0	0.679								
350	7.20	34.28	26.845	121.3	0.713	350	7.24	34.22	26.792	126.3	0.747								
400	6.65	34.31	26.944	111.9	0.774	400	6.87	34.25	26.867	119.2	0.811								
450	6.31	34.31	26.989	107.6	0.832	450	6.46	34.29	26.954	111.0	0.872								
500	5.96	34.34	27.058	101.1	0.888	500	6.16	34.31	27.009	105.8	0.930								
550	5.74	34.37	27.109	96.3	0.941	550	5.63	34.31	27.075	99.5	0.984								
600	5.55	34.39	27.148	92.6	0.991	600	5.30	34.35	27.147	92.7	1.036								
700	5.11	34.41	27.216	86.1	1.089	700	4.91	34.41	27.240	83.9	1.132								
800	4.56	34.44	27.303	77.9	1.179	800	4.54	34.44	27.305	77.7	1.221								
900	4.19	34.48	27.375	71.1	1.262	900	4.21	34.46	27.356	72.8	1.304								
1000	3.96	34.49	27.407	68.1	1.340	1000	3.93	34.49	27.410	67.8	1.383								

103060

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

103070

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			LATITUDE		LONGITUDE		MO/DAY/YR		START TIME				
30 06.5N		118 24.5W		10/21/75		2204 GMT			29 48.0N		119 04.0W		10/21/75		1650 GMT				
BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
3452M		350		10KT		2		340 9 10		3738M		320		9KT		2		330 7 7	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD								
0	18.36	33.54	24.088	383.6	0.000	0	18.10	33.59	24.190	373.9	0.000								
10	18.33	33.54	24.095	382.9	0.038	10	18.08	33.59	24.195	373.4	0.037								
20	18.25	33.54	24.115	381.0	0.076	20	18.08	33.59	24.195	373.4	0.074								
30	18.23	33.54	24.120	380.5	0.114	30	18.08	33.59	24.195	373.4	0.112								
40	18.18	33.54	24.132	379.4	0.152	40	18.07	33.59	24.197	373.2	0.149								
50	17.18	33.54	24.373	356.4	0.189	50	17.43	33.59	24.352	358.4	0.186								
75	15.25	33.58	24.844	311.5	0.273	75	14.48	33.53	24.972	299.3	0.269								
100	12.87	33.55	25.115	285.7	0.349	100	11.48	33.47	25.519	247.3	0.337								
125	12.21	33.53	25.429	255.8	0.417	125	10.72	33.67	25.811	219.5	0.396								
150	11.46	33.57	25.600	239.5	0.480	150	9.85	33.75	26.022	199.4	0.450								
175	9.85	33.67	25.960	205.3	0.536	175	9.07	33.88	26.251	177.7	0.497								
200	9.24	33.86	26.208	181.7	0.585	200	8.64	33.97	26.389	164.6	0.541								
225	8.68	33.97	26.383	165.2	0.630	225	8.22	34.02	26.493	154.7	0.582								
250	8.27	34.02	26.485	155.5	0.671	250	7.93	34.04	26.552	149.2	0.621								
275	7.66	34.05	26.599	144.7	0.710	275	7.56	34.06	26.621	142.5	0.659								
300	7.27	34.06	26.663	138.6	0.746	300	7.19	34.07	26.682	136.8	0.695								
350	6.73	34.11	26.776	127.8	0.815	350	6.67	34.12	26.792	126.3	0.763								
400	6.43	34.18	26.871	118.8	0.880	400	6.28	34.17	26.883	117.7	0.827								
450	6.07	34.24	26.965	109.9	0.940	450	5.86	34.26	27.007	105.9	0.885								
500	5.83	34.26	27.011	105.6	0.997	500	5.75	34.27	27.029	103.9	0.941								
550	5.57	34.33	27.098	97.3	1.051	550	5.52	34.31	27.089	98.2	0.995								
600	5.39	34.36	27.144	93.0	1.102	600	5.23	34.34	27.147	92.7	1.046								
700	5.02	34.40	27.219	85.9	1.199	700	4.84	34.40	27.240	83.9	1.142								
800	4.47	34.44	27.313	77.0	1.289	800	4.44	34.45	27.324	75.9	1.229								
900	4.16	34.46	27.362	72.3	1.372	900	4.16	34.47	27.370	71.6	1.312								
1000	3.88	34.49	27.415	67.3	1.450	1000	3.89	34.49	27.414	67.4	1.390								

103080			RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			103090		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
29 26.5N	119 44.0W	10/11/75	1115 GMT	29 07.0N	120 23.0W	10/21/75	0512 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3765M	330	7KT	1	330 3 8	4117M	020	12KT	2	330 5 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.27	33.59	24.148	377.8	0.000	0	19.05	33.74	24.067	385.5	0.000
10	18.27	33.59	24.148	377.8	0.037	10	19.06	33.74	24.065	385.7	0.038
20	18.27	33.59	24.148	377.8	0.075	20	19.06	33.74	24.065	385.7	0.077
30	18.27	33.59	24.148	377.8	0.113	30	19.07	33.74	24.062	386.0	0.115
40	18.27	33.59	24.148	377.8	0.151	40	19.07	33.74	24.062	386.0	0.154
50	17.43	33.60	24.359	357.7	0.188	50	17.23	33.72	24.499	344.4	0.191
75	15.20	33.64	24.901	306.1	0.271	75	14.95	33.53	24.871	308.9	0.273
100	14.01	33.63	25.148	282.6	0.345	100	12.93	33.53	25.289	269.1	0.346
125	12.53	33.59	25.414	257.3	0.414	125	11.79	33.63	25.586	240.9	0.410
150	11.07	33.61	25.702	229.9	0.475	150	10.73	33.69	25.825	218.2	0.468
175	10.16	33.73	25.954	205.9	0.531	175	10.15	33.93	26.112	190.9	0.520
200	9.19	33.89	26.240	178.8	0.580	200	9.78	34.06	26.276	175.3	0.567
225	8.68	33.96	26.375	165.9	0.624	225	9.35	34.18	26.440	159.7	0.610
250	8.10	34.03	26.519	152.3	0.665	250	9.27	34.24	26.500	154.0	0.651
275	7.77	34.05	26.583	146.2	0.703	275	9.43	34.33	26.544	149.9	0.690
300	7.45	34.06	26.637	141.1	0.740	300	9.28	34.37	26.600	144.6	0.728
350	6.85	34.10	26.752	130.1	0.811	350	8.82	34.40	26.697	135.3	0.801
400	6.28	34.12	26.844	121.5	0.876	400	8.13	34.37	26.780	127.4	0.870
450	6.14	34.20	26.925	113.8	0.938	450	7.77	34.42	26.873	118.6	0.936
500	5.66	34.23	27.008	105.8	0.996	500	7.07	34.42	26.973	109.1	0.997
550	5.66	34.29	27.056	101.3	1.051	550	6.92	34.43	27.002	106.4	1.055
600	5.45	34.33	27.113	95.9	1.104	600	6.28	34.42	27.080	99.0	1.110
700	4.93	34.40	27.229	84.9	1.202	700	5.63	34.42	27.162	91.3	1.214
800	4.54	34.44	27.305	77.7	1.291	800	4.98	34.43	27.248	83.2	1.310
900	4.29	34.46	27.348	73.6	1.375	900	4.59	34.45	27.307	77.5	1.400
1000	3.96	34.49	27.407	68.1	1.455	1000	4.21	34.47	27.364	72.1	1.484

RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			103090									
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
29 07.0N	120 23.0W	10/21/75	0605 GMT	4117M	020	12KT	2	330 5 6							
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	19.04	33.745	5.45					384.9	0	19.04	33.745	5.45	24.073	384.9	0.000
10	19.04	33.743	5.47					385.0	10	19.04	33.743	5.47	24.072	385.0	0.038
25	19.06	33.743	5.45					385.5	20	19.05	33.744	5.45	24.069	385.4	0.077
40	19.06	33.742	5.45					385.6	30	19.06	33.744	5.45	24.067	385.6	0.115
60	16.52	33.661	6.06					332.9	50	17.79	33.705	5.75	24.353	358.3	0.190
80	14.50	33.532	5.94					299.6	75	14.92	33.561	5.97	24.900	306.2	0.273
100	13.55	33.543	5.62					280.0	100	13.55	33.543	5.62	25.175	280.0	0.347
124	12.00	33.607	4.81					246.4	125	11.94	33.612	4.78	25.542	245.1	0.414
149	10.86	33.736	4.10					217.0	150	10.82	33.745	4.05	25.849	215.8	0.472
173	10.22	33.928	3.08					192.2	200	9.77	34.053	3.64	26.270	175.8	0.572
208	9.69	34.080	2.58					172.4	250	9.52	34.240	1.80	26.458	158.1	0.658
271	9.50	34.302	1.44					153.0	300	9.27	34.345	1.13	26.582	146.2	0.736
363	8.64	34.381	0.73					134.0	400	8.26	34.394	0.54	26.779	127.6	0.880
459	7.65	34.401	0.33					118.4	500	7.19	34.396	0.27	26.938	112.6	1.008
585	6.32	34.384	0.16					102.2	600	6.20	34.384	0.17	27.061	100.8	1.123
712	5.48	34.391	0.35					91.7	700	5.54	34.389	0.32	27.148	92.5	1.228
855	4.74	34.434	0.33					80.3	800	4.99	34.415	0.34	27.234	84.4	1.325
1008	4.20	34.476	0.52					71.5	1000	4.22	34.474	0.50	27.366	71.9	1.500

107032			RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			107035		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME
32 25.5N	116 11.0W	10/19/75	0707 GMT	30 21.0N	116 22.5W	10/19/75	1036 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
437M	110	4KT	2		1856M	140	6KT	2			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.05	33.51	24.612	333.6	0.000	0	18.60	33.72	24.165	376.2	0.000
10	15.18	33.49	24.790	316.6	0.032	10	18.61	33.72	24.163	376.4	0.037
20	14.58	33.48	24.912	309.0	0.063	20	18.61	33.72	24.163	376.4	0.075
30	13.18	33.49	25.209	276.8	0.092	30	18.53	33.71	24.175	375.2	0.113
40	12.43	33.54	25.395	259.1	0.119	40	18.83	33.51	24.432	350.7	0.149
50	12.33	33.56	25.429	255.8	0.145	50	14.53	33.42	24.876	308.4	0.182
75	11.20	33.66	25.718	228.4	0.206	75	12.67	33.44	25.271	270.9	0.255
100	10.72	33.76	25.881	212.9	0.262	100	11.13	33.54	25.637	236.1	0.319
125	10.12	33.86	26.063	195.6	0.313	125	10.15	33.68	25.917	209.4	0.375
150	9.63	33.99	26.246	178.2	0.361	150	9.83	33.98	26.205	182.1	0.425
175	9.50	34.13	26.377	165.8	0.405	175	9.10	33.97	26.317	171.4	0.470
200	9.20	34.18	26.465	157.4	0.446	200	8.67	34.05	26.447	159.1	0.512
225	8.53	34.14	26.539	150.3	0.485	225	8.29	34.08	26.529	151.3	0.552
250	8.80	34.30	26.622	142.4	0.523	250	8.00	34.10	26.588	145.7	0.590
275	8.56	34.27	26.636	141.1	0.560	275	7.69	34.13	26.657	139.1	0.627
300	8.51	34.31	26.675	137.4	0.596	300	7.29	34.12	26.707	134.4	0.662
350	7.58	34.26	26.775	127.9	0.665	350	6.79	34.18	26.823	123.4	0.729
400	6.92	34.27	26.876	118.4	0.730	400	6.57	34.26	26.916	114.6	0.791
						450	6.33	34.31	26.987	107.9	0.850
						500	6.11	34.34	27.039	103.0	0.906
						550	5.85	34.37	27.095	97.6	0.960
						600	5.60	34.39	27.142	93.1	1.011
						700	5.06	34.42	27.230	84.8	1.108
						800	4.54	34.45	27.313	76.9	1.197
						900	4.13	34.48	27.381	70.5	1.279
						1000	3.79	34.52	27.448	64.2	1.355

107040				RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				107050					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
30 11.0N		116 42.0W		10/19/75		1424 GMT		29 50.5N		117 23.0W		10/20/75		0021 GMT			
BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES			
2697M		300 4KT		2		300 5 5		2416M		290 7KT		1		280 6 12			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.64	33.64	24.094	383.0	0.000	0	18.32	33.55	24.105	381.9	0.000	0	18.32	33.55	24.105	381.9	0.000
10	18.64	33.64	24.094	383.0	0.038	10	18.29	33.55	24.113	381.2	0.038	10	18.29	33.55	24.113	381.2	0.038
20	18.64	33.64	24.094	383.0	0.076	20	18.14	33.55	24.149	377.7	0.076	20	18.14	33.55	24.149	377.7	0.076
30	18.59	33.63	24.099	382.5	0.115	30	17.68	33.56	24.269	366.3	0.113	30	17.68	33.56	24.269	366.3	0.113
40	17.73	33.61	24.295	363.8	0.152	40	16.20	33.58	24.631	331.8	0.148	40	16.20	33.58	24.631	331.8	0.148
50	14.70	33.37	24.802	315.5	0.186	50	15.33	33.58	24.826	313.2	0.180	50	15.33	33.58	24.826	313.2	0.180
75	13.31	33.43	25.137	283.7	0.261	75	13.44	33.51	25.172	280.3	0.255	75	13.44	33.51	25.172	280.3	0.255
100	11.93	33.54	25.490	250.1	0.329	100	12.71	33.56	25.356	262.8	0.323	100	12.71	33.56	25.356	262.8	0.323
125	10.74	33.69	25.823	218.4	0.388	125	11.47	33.59	25.614	238.2	0.387	125	11.47	33.59	25.614	238.2	0.387
150	9.75	33.77	26.055	196.3	0.440	150	9.98	33.76	26.008	200.7	0.442	150	9.98	33.76	26.008	200.7	0.442
175	9.10	33.89	26.254	177.4	0.488	175	9.42	33.88	26.195	183.0	0.491	175	9.42	33.88	26.195	183.0	0.491
200	8.62	34.02	26.432	160.6	0.531	200	8.91	33.98	26.355	167.8	0.536	200	8.91	33.98	26.355	167.8	0.536
225	8.33	34.07	26.515	152.6	0.571	225	8.37	34.00	26.454	158.4	0.578	225	8.37	34.00	26.454	158.4	0.578
250	7.95	34.09	26.588	145.7	0.610	250	7.99	34.03	26.535	150.7	0.617	250	7.99	34.03	26.535	150.7	0.617
275	7.65	34.10	26.640	140.8	0.646	275	7.76	34.06	26.592	145.3	0.655	275	7.76	34.06	26.592	145.3	0.655
300	7.21	34.09	26.695	135.6	0.682	300	7.44	34.07	26.646	140.2	0.692	300	7.44	34.07	26.646	140.2	0.692
350	6.84	34.17	26.808	124.8	0.750	350	6.91	34.13	26.768	128.7	0.762	350	6.91	34.13	26.768	128.7	0.762
400	6.58	34.25	26.906	115.5	0.813	400	6.42	34.18	26.872	118.7	0.827	400	6.42	34.18	26.872	118.7	0.827
450	6.15	34.27	26.978	108.7	0.872	450	6.01	34.21	26.949	111.5	0.887	450	6.01	34.21	26.949	111.5	0.887
500	5.83	34.30	27.043	102.6	0.928	500	5.82	34.27	27.020	104.7	0.944	500	5.82	34.27	27.020	104.7	0.944
550	5.57	34.33	27.098	97.3	0.981	550	5.61	34.32	27.086	98.5	0.999	550	5.61	34.32	27.086	98.5	0.999
600	5.26	34.37	27.167	90.8	1.032	600	5.43	34.35	27.131	94.2	1.050	600	5.43	34.35	27.131	94.2	1.050
700	4.74	34.40	27.251	82.8	1.126	700	4.98	34.40	27.224	85.4	1.148	700	4.98	34.40	27.224	85.4	1.148
800	4.39	34.44	27.321	76.2	1.213	800	4.61	34.45	27.305	77.7	1.237	800	4.61	34.45	27.305	77.7	1.237
900	4.11	34.47	27.375	71.1	1.295	900	4.22	34.47	27.363	72.2	1.321	900	4.22	34.47	27.363	72.2	1.321
1000	3.85	34.50	27.426	66.3	1.372	1000	3.89	34.50	27.422	66.6	1.399	1000	3.89	34.50	27.422	66.6	1.399

RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				107050							
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
29 50.5N		117 23.0W		10/20/75		0108 GMT		2416M		290 7KT		1		280 6 12	
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	18.30	33.540	5.52					382.2	0	18.30	33.540	5.52	24.102	382.2	0.000
10	18.29	33.538	5.54					382.1	10	18.29	33.538	5.54	24.103	382.1	0.038
25	18.11	33.538	5.56					377.9	20	18.16	33.539	5.55	24.133	379.3	0.076
40	16.44	33.567	6.03					337.9	30	17.59	33.545	5.71	24.276	365.6	0.113
60	15.28	33.585	5.92					311.8	50	15.82	33.595	5.97	24.727	322.6	0.182
79	13.59	33.395	6.06					291.6	75	13.92	33.429	6.04	25.010	295.7	0.260
99	13.06	33.557	5.63					269.6	100	13.01	33.559	5.61	25.295	268.6	0.331
124	11.62	33.561	5.22					243.0	125	11.55	33.567	5.17	25.580	241.5	0.396
148	10.24	33.721	4.16					207.8	150	10.16	33.734	4.13	25.957	205.7	0.452
172	9.54	33.850	4.02					187.1	200	9.12	33.971	3.31	26.313	171.9	0.548
206	9.06	33.989	3.16					169.4	250	8.24	34.025	3.08	26.492	154.8	0.632
269	7.90	34.021	3.05					150.2	300	7.50	34.056	2.56	26.626	142.1	0.709
360	6.89	34.124	1.50					128.9	400	6.48	34.150	1.11	26.839	121.8	0.846
455	6.03	34.185	0.77					113.6	500	5.81	34.238	0.54	26.995	107.1	0.967
580	5.55	34.325	0.33					97.4	600	5.46	34.333	0.34	27.114	95.8	1.075
706	4.99	34.361	0.49					88.5	700	5.01	34.360	0.47	27.188	88.8	1.175
849	4.47	34.457	0.41					75.7	800	4.64	34.424	0.43	27.281	79.9	1.267
1002	3.90	34.488	0.60					67.6	1000	3.90	34.488	0.59	27.410	67.7	1.432

107060				RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				107070					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
29 31.0N		118 02.0W		10/20/75		0635 GMT		29 11.0N		118 41.0W		10/20/75		1239 GMT			
BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES			
373HM		330 11KT		1				2981M		280 11KT		2		320 8 9			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.28	33.55	24.115	381.0	0.000	0	18.53	33.59	24.083	384.0	0.000	0	18.53	33.59	24.083	384.0	0.000
10	18.28	33.55	24.115	381.0	0.038	10	18.53	33.59	24.083	384.0	0.038	10	18.53	33.59	24.083	384.0	0.038
20	18.23	33.58	24.150	377.6	0.076	20	18.54	33.60	24.089	383.5	0.076	20	18.54	33.60	24.089	383.5	0.076
30	18.21	33.59	24.163	376.4	0.113	30	18.55	33.60	24.086	383.7	0.115	30	18.55	33.60	24.086	383.7	0.115
40	17.48	33.60	24.347	358.8	0.150	40	17.63	33.63	24.334	360.1	0.152	40	17.63	33.63	24.334	360.1	0.152
50	15.91	33.61	24.720	323.3	0.185	50	16.13	33.63	24.686	326.6	0.187	50	16.13	33.63	24.686	326.6	0.187
75	14.49	33.61	25.031	293.7	0.262	75	15.17	33.63	24.900	306.2	0.266	75	15.17	33.63	24.900	306.2	0.266
100	12.98	33.56	25.303	267.8	0.333	100	13.73	33.58	25.167	280.8	0.340	100	13.73	33.58	25.167	280.8	0.340
125	11.75	33.57	25.547	244.6	0.398	125	12.74	33.72	25.473	251.6	0.407	125	12.74	33.72	25.473	251.6	0.407
150	10.48	33.63	25.822	218.5	0.456	150	10.77	33.75	25.864	214.4	0.466	150	10.77	33.75	25.864	214.4	0.466
175	9.60	33.90	26.181	184.4	0.507	175	9.82	33.80	26.067	195.2	0.519	175	9.82	33.80	26.067	195.2	0.519
200	9.17	33.98	26.313	171.8	0.553	200	9.37	33.88	26.203	182.3	0.567	200	9.37	33.88	26.203	182.3	0.567
225	8.41	34.02	26.464	157.5	0.595	225	8.78	33.97	26.367	166.6	0.611	225	8.78	33.97	26.367	166.6	0.611
250	8.03	34.06	26.552	149.1	0.634	250	8.38	34.06	26.500	154.1	0.652	250	8.38	34.06	26.500	154.1	0.652
275	7.73	34.09	26.620	142.6	0.672	275	7.94	34.10	26.597	144.8	0.691	275	7.94	34.10	26.597	144.8	0.691
300	7.84	34.19	26.682	136.7	0.708	300	7.62	34.10	26.644	140.4	0.728	300	7.62	34.10	26.644	140.4	0.728
350	7.45	34.23	26.770	128.4	0.777	350	7.10	34.15	26.757	129.7	0.798	350	7.10	34.15	26.757	129.7	0.798
400	6.75	34.21	26.852	120.7	0.842	400	6.76	34.23	26.867	119.3	0.863	400	6.76	34.23	26.867	119.3	0.863
450	6.30	34.26	26.951	111.3	0.903	450	6.41	34.26	26.937	112.6	0.924	450	6.41	34.26	26.937	112.6	0.924
5																	

107080		RV ALF XANDER AGASSIZ				CALCOFI CRUISE 7510				107090	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 52.5N	119 19.0W	10/20/75	1802 GMT			28 32.0N	119 58.5W	10/20/75	2330 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
373HM	310	11KT	2	310 7 7		4117M	340	13KT	2	320 6 7	
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DD
0	18.51	33.60	24.096	382.8	0.000	0	18.60	33.62	24.089	383.5	0.000
10	18.51	33.60	24.096	382.8	0.038	10	18.60	33.62	24.089	383.5	0.038
20	18.51	33.60	24.096	382.8	0.076	20	18.60	33.62	24.089	383.5	0.076
30	18.51	33.60	24.096	382.8	0.114	30	18.56	33.62	24.099	382.5	0.115
40	17.63	33.66	24.357	357.9	0.152	40	18.57	33.64	24.112	381.3	0.153
50	16.36	33.72	24.702	325.0	0.186	50	18.45	33.76	24.233	369.7	0.191
75	15.64	33.85	24.965	300.0	0.265	75	15.29	33.57	24.828	313.1	0.276
100	15.58	34.06	25.139	283.4	0.338	100	13.90	33.56	25.116	285.6	0.352
125	13.95	33.99	25.437	255.0	0.406	125	12.95	33.65	25.378	260.7	0.421
150	12.28	33.80	25.625	237.2	0.469	150	11.61	33.68	25.658	234.1	0.484
175	10.97	33.78	25.852	215.6	0.526	175	10.55	33.77	25.918	209.3	0.540
200	9.95	33.85	26.083	193.6	0.578	200	9.95	33.90	26.123	189.9	0.591
225	9.08	33.97	26.320	171.2	0.625	225	9.53	33.97	26.247	178.1	0.638
250	8.62	34.03	26.439	159.8	0.668	250	8.70	34.05	26.443	159.5	0.681
275	8.33	34.06	26.507	153.4	0.708	275	8.70	34.14	26.513	152.8	0.722
300	7.76	34.08	26.608	143.8	0.746	300	7.85	34.07	26.587	145.8	0.760
350	7.17	34.13	26.732	132.1	0.818	350	7.15	34.09	26.703	134.8	0.833
400	6.86	34.20	26.829	122.8	0.884	400	6.83	34.19	26.826	123.2	0.900
450	6.38	34.22	26.909	115.2	0.947	450	6.45	34.21	26.892	116.9	0.963
500	6.06	34.26	26.982	108.3	1.006	500	5.96	34.24	26.979	108.6	1.023
550	5.73	34.30	27.055	101.4	1.062	550	5.71	34.28	27.042	102.7	1.079
600	5.51	34.34	27.113	95.8	1.115	600	5.57	34.33	27.098	97.3	1.133
700	5.02	34.39	27.211	86.6	1.214	700	5.13	34.39	27.198	87.8	1.233
800	4.65	34.44	27.293	78.9	1.305	800	4.80	34.45	27.284	79.7	1.326
900	4.31	34.47	27.354	73.1	1.390	900	4.31	34.47	27.354	73.1	1.411
1000	4.03	34.50	27.407	68.0	1.469	1000	4.02	34.50	27.408	67.9	1.490

110035		RV ALF XANDER AGASSIZ				CALCOFI CRUISE 7510				110040	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 46.0N	116 00.0W	10/18/75	2004 GMT			29 36.5N	116 19.5W	10/18/75	1554 GMT		
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1485M	330	8KT	1	340 5 6		2509M	340	12KT	2	320 4 10	
Z	T	S	SIGMA T	DT	DU	Z	T	S	SIGMA T	DT	DD
0	16.11	33.48	24.575	337.1	0.000	0	17.58	33.64	24.354	358.2	0.000
10	16.01	33.48	24.598	334.9	0.033	10	17.58	33.64	24.354	358.2	0.035
20	15.85	33.47	24.626	332.2	0.067	20	15.50	33.53	24.751	320.4	0.069
30	12.43	33.46	25.135	283.8	0.097	30	13.88	33.37	24.974	299.1	0.100
40	12.33	33.47	25.360	262.4	0.125	40	13.05	33.36	25.134	283.9	0.130
50	11.90	33.49	25.457	253.2	0.151	50	12.70	33.48	25.296	268.5	0.157
75	11.15	33.64	25.711	229.0	0.211	75	12.01	33.56	25.490	250.0	0.223
100	10.68	33.68	25.826	218.1	0.268	100	11.13	33.66	25.730	227.2	0.283
125	9.36	33.80	26.142	188.0	0.319	125	10.56	33.75	25.901	210.9	0.338
150	8.96	33.90	26.284	174.5	0.365	150	9.81	33.80	26.068	195.1	0.390
175	8.58	33.98	26.407	162.9	0.408	175	9.30	33.86	26.199	182.7	0.438
200	8.35	34.05	26.496	154.4	0.449	200	8.76	33.98	26.378	165.6	0.482
225	8.03	34.09	26.576	146.9	0.487	225	8.11	34.08	26.556	148.7	0.522
250	7.82	34.12	26.631	141.7	0.524	250	7.79	34.12	26.635	141.2	0.560
275	7.53	34.12	26.673	137.7	0.560	275	7.66	34.14	26.670	138.0	0.596
300	7.18	34.12	26.722	133.0	0.595	300	7.47	34.14	26.697	135.4	0.631
350	6.67	34.15	26.816	124.1	0.662	350	6.63	34.13	26.805	125.1	0.699
400	6.36	34.24	26.927	113.5	0.724	400	6.27	34.20	26.908	115.4	0.761
450	6.27	34.28	26.971	109.4	0.783	450	6.12	34.27	26.982	108.3	0.820
500	6.30	34.34	27.014	105.3	0.840	500	6.13	34.36	27.052	101.7	0.876
550	5.92	34.35	27.071	99.9	0.895	550	5.61	34.34	27.101	97.0	0.929
600	5.55	34.36	27.125	94.8	0.947	600	5.50	34.37	27.138	93.5	0.980
700	5.09	34.39	27.203	87.4	1.046	700	5.10	34.40	27.210	86.7	1.078
800	4.63	34.45	27.303	77.9	1.137	800	4.65	34.45	27.301	78.1	1.169
900	4.18	34.48	27.375	71.0	1.220	900	4.29	34.47	27.356	72.9	1.253
1000	3.93	34.50	27.417	67.0	1.298	1000	3.98	34.50	27.412	67.5	1.332

110045 RV ALEXANDER AGASSIZ

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 26.5N	116 39.5W	10/18/75	1240 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
1949M	350	14KT	1	320 4 8	
Z	T	S	SIGMA T	DT	DD
0	18.61	33.64	24.102	382.2	0.000
10	18.61	33.64	24.102	382.2	0.038
20	18.61	33.64	24.102	382.2	0.076
30	18.56	33.64	24.114	381.0	0.114
40	15.43	33.66	24.712	324.1	0.150
50	13.93	33.24	24.864	309.6	0.181
75	12.77	33.28	25.128	284.5	0.256
100	12.23	33.50	25.402	258.4	0.325
125	10.90	33.75	25.841	216.6	0.385
150	10.29	33.82	26.002	201.3	0.438
175	9.41	33.88	26.197	182.9	0.486
200	9.05	34.02	26.364	167.0	0.531
225	8.84	34.20	26.538	150.5	0.572
250	8.41	34.21	26.613	143.4	0.610
275	7.97	34.21	26.679	137.1	0.646
300	7.81	34.23	26.718	133.3	0.681
350	7.52	34.25	26.776	127.8	0.749
400	7.12	34.28	26.856	120.3	0.814
450	6.88	34.31	26.940	112.3	0.875
500	6.21	34.32	27.010	105.7	0.933

CALCOFI CRUISE 7510 110050

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
29 16.5N	116 59.5W	10/18/75	0849 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3738M	350	16KT	1	330 5 8	
Z	T	S	SIGMA T	DT	DD
0	18.49	33.63	24.124	380.1	0.000
10	18.49	33.63	24.124	380.1	0.038
20	18.47	33.63	24.129	379.6	0.076
30	18.23	33.61	24.173	375.4	0.113
40	17.16	33.53	24.370	356.7	0.150
50	15.83	33.52	24.669	328.1	0.185
75	13.28	33.56	25.243	273.5	0.260
100	11.32	33.66	25.696	230.5	0.324
125	10.40	33.74	25.921	209.0	0.379
150	9.72	33.85	26.122	189.9	0.430
175	9.10	33.94	26.294	173.7	0.476
200	8.88	34.06	26.422	161.4	0.519
225	8.50	34.10	26.513	152.8	0.559
250	8.27	34.14	26.579	146.6	0.598
275	8.48	34.28	26.656	139.2	0.635
300	8.31	34.30	26.698	135.2	0.670
350	7.78	34.31	26.785	127.0	0.739
400	7.44	34.35	26.866	119.3	0.803
450	7.18	34.40	26.942	112.1	0.865
500	6.81	34.41	27.001	106.5	0.923
550	6.42	34.42	27.061	100.8	0.979
600	6.05	34.42	27.109	96.2	1.032
700	5.23	34.43	27.218	85.9	1.131
800	4.84	34.46	27.287	79.4	1.223
900	4.42	34.47	27.342	74.2	1.308
1000	4.02	34.50	27.408	67.9	1.389

110060 RV ALEXANDER AGASSIZ

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 57.0N	117 38.0W	10/18/75	0211 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3546M	360	13KT	1	330 5 9	
Z	T	S	SIGMA T	DT	DD
0	18.36	33.63	24.156	377.0	0.000
10	18.35	33.63	24.159	376.8	0.037
20	17.78	33.59	24.267	366.4	0.074
30	16.96	33.55	24.432	350.7	0.110
40	15.73	33.56	24.722	323.1	0.144
50	14.63	33.57	24.971	299.5	0.175
75	12.40	33.65	25.486	250.5	0.245
100	11.38	33.68	25.700	230.0	0.305
125	10.41	33.77	25.943	207.0	0.360
150	9.66	33.89	26.163	186.0	0.410
175	9.23	34.01	26.327	170.5	0.456
200	8.82	34.06	26.432	160.6	0.498
225	8.45	34.11	26.528	151.4	0.538
250	8.27	34.17	26.603	144.3	0.576
275	7.78	34.17	26.675	137.4	0.612
300	7.19	34.14	26.737	131.6	0.647
350	7.38	34.29	26.827	123.0	0.713
400	6.60	34.28	26.927	113.5	0.775
450	6.26	34.30	26.988	107.8	0.834
500	5.97	34.31	27.033	103.5	0.890
550	5.50	34.34	27.115	95.7	0.943
600	5.34	34.37	27.158	91.7	0.993
700	4.94	34.42	27.244	83.5	1.089
800	4.68	34.46	27.305	77.7	1.177
900	4.26	34.47	27.359	72.6	1.261
1000	3.99	34.50	27.411	67.6	1.340

CALCOFI CRUISE 7510 110070

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 36.5N	118 18.0W	10/17/75	1958 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3738M	340	10KT	0	320 5 7	
Z	T	S	SIGMA T	DT	DD
0	19.16	33.71	24.016	390.3	0.000
10	19.08	33.71	24.037	388.4	0.038
20	19.01	33.71	24.055	386.7	0.077
30	18.95	33.71	24.070	385.3	0.116
40	18.33	33.69	24.209	372.0	0.154
50	17.58	33.65	24.361	357.4	0.191
75	14.40	33.64	25.073	289.7	0.272
100	12.78	33.62	25.389	259.7	0.341
125	11.61	33.65	25.635	236.3	0.404
150	10.73	33.74	25.864	214.5	0.461
175	9.88	33.90	26.134	188.8	0.512
200	9.64	34.04	26.284	174.6	0.559
225	9.40	34.14	26.401	163.5	0.602
250	9.19	34.22	26.497	154.3	0.643
275	8.91	34.23	26.550	149.3	0.682
300	8.43	34.20	26.602	144.4	0.720
350	8.55	34.34	26.693	135.8	0.793
400	7.31	34.25	26.806	125.0	0.862
450	6.85	34.26	26.878	118.2	0.926
500	6.77	34.36	26.967	109.7	0.986
550	6.06	34.35	27.053	101.6	1.043
600	5.78	34.38	27.112	96.0	1.096
700	5.17	34.41	27.210	86.8	1.196
800	4.71	34.45	27.294	78.8	1.287
900	4.38	34.47	27.346	73.8	1.372
1000	4.01	34.50	27.409	67.8	1.452

RV ALEXANDER AGASSIZ

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME					
28 36.5N	118 18.0W	10/17/75	2042 GMT					
Z	T	S	O2	PO4	SIO3	NO2	NO3	DT
0	19.16	33.695	5.46					391.4
10	19.11	33.697	5.48					390.1
25	19.05	33.703	5.50					388.2
40	18.67	33.689	5.62					380.1
60	16.46	33.653	6.05					332.1
80	14.33	33.654	5.69					287.2
100	13.33	33.642	5.42					268.5
125	11.76	33.650	4.92					238.9
149	10.84	33.717	4.17					218.1
174	9.99	33.897	3.26					190.8
209	9.56	34.060	2.63					171.9
272	8.95	34.189	2.03					152.9
363	8.26	34.320	0.88					133.0
459	7.03	34.313	0.57					116.6
585	5.90	34.379	0.24					97.5
711	5.08	34.406	0.32					86.1
854	4.49	34.456	0.40					76.0
1007	3.96	34.493	0.56					67.9

CALCOFI CRUISE 7510 110070

BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3738M	340	10KT	0	320 5 7		
Z	T	S	O2	SIGT	DT	DD
0	19.16	33.695	5.46	24.005	391.4	0.000
10	19.11	33.697	5.48	24.019	390.1	0.039
20	19.07	33.703	5.49	24.032	388.9	0.078
30	19.00	33.701	5.52	24.050	387.1	0.116
50	17.68	33.667	5.86	24.350	358.5	0.191
75	14.81	33.654	5.81	24.996	297.0	0.274
100	13.33	33.642	5.42	25.296	268.5	0.345
125	11.76	33.650	4.92	25.607	238.9	0.409
150	10.80	33.724	4.13	25.838	216.9	0.467
200	9.62	34.027	2.74	26.275	175.4	0.567
250	9.14	34.158	2.20	26.456	158.2	0.652
300	8.75	34.241	1.64	26.584	146.1	0.731
400	7.79	34.322	0.70	26.792	126.3	0.874
500	6.61	34.332	0.43	26.966	109.8	0.999
600	5.78	34.383	0.24	27.113	95.9	1.109
700	5.13	34.404	0.31	27.208	86.9	1.209
800	4.68	34.437	0.36	27.286	79.5	1.300
1000	3.98	34.491	0.55	27.405	68.2	1.465

110080		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				113030			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
28 15.0N	118 59.5W	10/17/75	1400 GMT		29 22.0N	115 18.0W	10/16/75	0254 GMT					
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
3889M	340	13KT	1	330 4 8	62M	310	12KT	0					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	18.68	33.62	24.069	385.3	0.000	0	15.18	33.51	24.806	315.2	0.000		
10	18.68	33.62	24.069	385.3	0.038	10	15.13	33.51	24.816	314.1	0.031		
20	18.70	33.63	24.072	385.1	0.077	20	13.27	33.48	25.183	279.2	0.061		
30	18.79	33.68	24.087	383.6	0.115	30	12.46	33.55	25.397	258.9	0.088		
40	18.82	33.69	24.087	383.6	0.154	40	12.09	33.60	25.506	248.5	0.113		
50	18.68	33.69	24.122	380.3	0.192	50	12.08	33.60	25.508	248.3	0.138		
75	15.83	33.67	24.784	317.2	0.280								
100	14.48	33.70	25.102	286.9	0.356								
125	12.59	33.64	25.441	254.7	0.424								
150	11.41	33.69	25.702	229.8	0.486								
175	10.28	33.76	25.957	205.6	0.541								
200	9.73	34.03	26.261	176.8	0.590								
225	9.62	34.07	26.310	172.1	0.634								
250	9.50	34.13	26.377	165.8	0.678								
275	8.84	34.13	26.483	155.6	0.719								
300	8.41	34.15	26.566	147.8	0.759								
350	8.08	34.23	26.678	137.1	0.833								
400	7.49	34.31	26.827	123.0	0.901								
450	7.21	34.33	26.883	117.7	0.965								
500	6.72	34.34	26.958	110.6	1.025								
550	6.33	34.35	27.018	104.9	1.083								
600	5.94	34.39	27.093	97.8	1.138								
700	5.23	34.41	27.202	87.4	1.238								
800	4.82	34.44	27.274	80.7	1.331								
900	4.46	34.47	27.337	74.6	1.418								
1000	4.16	34.49	27.386	70.1	1.499								

113035		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				113040			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME					
29 11.5N	115 38.0W	10/16/75	0605 GMT		29 02.0N	115 57.5W	10/16/75	0946 GMT					
BOTTOM	WIND	SPEED	WEATHR	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
1252M	340	16KT	0	320 2 6	1949M	020	14KT	0					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD		
0	16.14	33.56	24.630	331.9	0.000	0	16.11	33.55	24.629	332.0	0.000		
10	16.08	33.56	24.643	330.6	0.033	10	15.38	33.55	24.792	316.4	0.032		
20	15.28	33.55	24.814	314.3	0.065	20	15.15	33.54	24.835	312.3	0.063		
30	14.18	33.51	25.019	294.8	0.095	30	13.46	33.53	25.183	279.2	0.093		
40	12.63	33.53	25.348	263.5	0.123	40	13.08	33.55	25.275	270.5	0.121		
50	11.88	33.57	25.523	247.0	0.149	50	12.68	33.57	25.369	261.5	0.147		
75	10.97	33.72	25.805	220.0	0.208	75	11.13	33.67	25.738	226.5	0.209		
100	10.51	33.80	25.949	206.4	0.262	100	10.51	33.73	25.894	211.6	0.264		
125	10.32	33.91	26.067	195.2	0.312	125	10.03	33.82	26.047	197.1	0.316		
150	9.60	33.99	26.251	177.7	0.360	150	9.57	33.92	26.201	182.4	0.364		
175	9.63	34.10	26.332	170.0	0.404	175	9.02	34.05	26.392	164.3	0.408		
200	8.53	34.04	26.461	157.8	0.446	200	8.60	34.12	26.513	152.8	0.449		
225	7.88	34.09	26.598	144.7	0.485	225	7.98	34.10	26.591	145.4	0.487		
250	7.79	34.12	26.635	141.2	0.522	250	7.69	34.11	26.642	140.6	0.524		
275	7.50	34.13	26.685	136.5	0.557	275	7.54	34.16	26.703	134.8	0.559		
300	7.44	34.18	26.733	132.0	0.592	300	7.39	34.21	26.763	129.1	0.593		
350	7.47	34.28	26.807	124.9	0.659	350	7.10	34.28	26.859	120.0	0.658		
400	6.94	34.29	26.889	117.1	0.722	400	6.83	34.30	26.912	115.0	0.720		
450	6.50	34.34	26.988	107.8	0.782	450	6.42	34.35	27.006	106.0	0.778		
500	6.10	34.36	27.056	101.3	0.838	500	5.95	34.34	27.059	101.0	0.833		
550	5.86	34.37	27.094	97.7	0.891	550	5.79	34.38	27.111	96.1	0.886		
600	5.61	34.39	27.141	93.3	0.942	600	5.42	34.40	27.172	90.3	0.936		
700	5.09	34.41	27.219	85.9	1.040	700	5.07	34.42	27.229	84.9	1.031		
800	4.62	34.45	27.304	77.8	1.130	800	4.60	34.46	27.314	76.8	1.121		
900	4.21	34.47	27.364	72.1	1.213	900	4.40	34.47	27.344	74.0	1.205		
1000	3.89	34.50	27.422	66.6	1.291	1000	4.02	34.50	27.408	67.9	1.285		

RV ALEXANDER AGASSIZ		CALCOFI CRUISE 7510				113050						
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
28 41.5N	116 37.5W	10/16/75	1652 GMT		3358M	350	11KT	0	330 4 5			
Z	T	S	02	04	103	02	SIGT	DT	DD			
0	18.97	33.650	5.48		390.1	0	18.97	33.650	5.48	24.019	390.1	0.000
9	18.95	33.646	5.48		389.9	10	18.94	33.647	5.48	24.021	389.9	0.039
24	18.91	33.641	5.55		389.3	20	18.92	33.643	5.53	24.025	389.5	0.078
39	16.55	33.558	6.06		341.0	30	18.04	33.608	5.75	24.215	371.4	0.116
59	14.77	33.463	6.11		310.1	50	15.42	33.495	6.08	24.741	321.3	0.185
79	13.90	33.485	5.94		291.1	75	14.05	33.477	5.99	25.019	294.8	0.263
99	12.69	33.517	5.48		265.6	100	12.62	33.521	5.44	25.341	264.3	0.333
124	11.47	33.669	4.37		232.4	125	11.44	33.684	4.29	25.690	231.0	0.396
149	11.15	34.020	2.64		201.0	150	11.14	34.031	2.59	26.015	200.1	0.450
173	10.92	34.195	1.87		184.2	200	10.29	34.221	1.93	26.313	171.8	0.545
208	10.09	34.214	1.96		168.9	250	9.38	34.283	1.54	26.515	152.6	0.629
271	9.11	34.318	1.27		145.8	300	8.78	34.333	1.08	26.651	139.8	0.705
363	8.13	34.329	0.84		130.5	400	7.63	34.316	0.71	26.812	124.5	0.843
460	6.86	34.302	0.55		115.2	500	6.49	34.317	0.43	26.970	109.5	0.967
585	5.91	34.362	0.25		98.9	600	5.81	34.366	0.25	27.096	97.5	1.078
712	5.22	34.394	0.28		88.5	700	5.27	34.391	0.27	27.182	89.4	1.179
855	4.62	34.458	0.43		77.2	800	4.83	34.434	0.36	27.267	81.3	1.273
1008	4.11	34.487	0.53		69.8	1000	4.13	34.487	0.52	27.386	70.1	1.443

113050			RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			113060		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 41.5N	116 37.5W	10/16/75	1604 GMT	28 21.5N	117 16.5W	10/16/75	2149 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
335M	350	11KT	0	330 4 5	373M	340	9KT	0	330 4 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.94	33.65	24.026	389.4	0.000	0	20.06	33.79	23.845	406.7	0.000
10	18.93	33.65	24.029	389.2	0.038	10	19.63	33.78	23.949	396.8	0.040
20	18.90	33.65	24.037	388.4	0.077	20	19.51	33.77	23.973	394.5	0.079
30	18.73	33.63	24.064	385.8	0.116	30	19.44	33.76	23.983	393.5	0.119
40	16.23	33.61	24.648	330.2	0.152	40	18.58	33.75	24.193	373.5	0.157
50	15.43	33.50	24.743	321.1	0.185	50	16.83	33.67	24.555	339.1	0.193
75	14.26	33.49	24.987	297.9	0.263	75	13.58	33.62	25.228	274.9	0.270
100	12.63	33.53	25.348	263.5	0.333	100	11.75	33.63	25.593	240.2	0.335
125	11.68	33.79	25.730	227.2	0.395	125	10.33	33.84	26.011	200.5	0.391
150	11.03	34.15	26.128	189.3	0.448	150	9.80	33.98	26.210	181.6	0.439
175	10.91	34.27	26.243	178.4	0.495	175	9.45	34.06	26.330	170.2	0.484
200	10.60	34.30	26.322	171.0	0.540	200	9.00	34.11	26.442	159.5	0.526
225	9.64	34.24	26.439	159.8	0.582	225	8.68	34.12	26.500	154.0	0.567
250	9.36	34.33	26.556	148.7	0.622	250	8.10	34.15	26.613	143.4	0.605
275	9.05	34.32	26.598	144.7	0.660	275	7.93	34.22	26.693	135.8	0.641
300	8.48	34.30	26.672	137.7	0.697	300	7.86	34.26	26.734	131.8	0.676
350	8.28	34.35	26.742	131.1	0.767	350	7.64	34.33	26.821	123.6	0.742
400	7.76	34.36	26.827	123.0	0.834	400	7.31	34.36	26.893	116.8	0.805
450	6.94	34.31	26.905	115.6	0.897	450	6.86	34.37	26.963	110.1	0.865
500	6.42	34.33	26.990	107.5	0.956	500	6.44	34.37	27.019	104.8	0.923
550	6.12	34.35	27.045	102.3	1.012	550	5.97	34.37	27.080	99.0	0.977
600	5.80	34.38	27.109	96.2	1.066	600	5.65	34.39	27.136	93.7	1.029
700	5.31	34.40	27.185	89.1	1.167	700	5.17	34.42	27.217	86.0	1.127
800	4.96	34.46	27.273	80.7	1.260	800	4.69	34.45	27.296	78.5	1.218
900	4.47	34.47	27.336	74.7	1.347	900	4.29	34.47	27.356	72.9	1.302
1000	4.11	34.50	27.399	68.8	1.428	1000	4.03	34.50	27.407	68.0	1.382

113070			RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			113080		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 02.0N	117 55.0W	10/17/75	0313 GMT	27 42.0N	118 33.0W	10/17/75	0834 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3546M	350	13KT	1	320 3 8	3926M	360	12KT	0			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	19.46	33.69	23.925	399.1	0.000	0	19.51	33.79	23.988	393.1	0.000
10	19.46	33.69	23.925	399.1	0.039	10	19.51	33.79	23.988	393.1	0.039
20	19.36	33.69	23.950	396.7	0.079	20	19.51	33.79	23.988	393.1	0.078
30	19.34	33.69	23.955	396.2	0.119	30	19.48	33.79	23.996	392.3	0.118
40	17.83	33.64	24.293	363.9	0.157	40	17.93	33.74	24.345	359.0	0.155
50	15.68	33.57	24.741	321.3	0.192	50	15.18	33.56	24.844	311.5	0.189
75	12.93	33.61	25.351	263.2	0.265	75	11.96	33.73	25.631	236.6	0.258
100	11.23	33.67	25.720	228.2	0.327	100	10.24	33.87	26.050	196.8	0.312
125	10.06	33.93	26.127	189.4	0.380	125	10.08	34.07	26.233	179.4	0.360
150	9.59	34.06	26.307	172.4	0.426	150	9.58	34.15	26.379	165.5	0.404
175	9.43	34.15	26.404	163.2	0.469	175	8.85	34.11	26.466	157.3	0.445
200	8.61	34.10	26.496	154.5	0.509	200	9.02	34.24	26.540	150.2	0.484
225	8.40	34.16	26.575	146.9	0.548	225	8.56	34.22	26.597	144.8	0.522
250	8.36	34.25	26.651	139.7	0.585	250	8.33	34.26	26.664	138.5	0.559
275	8.48	34.39	26.742	131.0	0.620	275	7.98	34.26	26.717	133.5	0.594
300	8.44	34.42	26.772	128.2	0.654	300	7.71	34.27	26.764	129.0	0.628
350	7.48	34.35	26.860	119.9	0.718	350	7.34	34.31	26.849	120.9	0.693
400	7.13	34.35	26.910	115.2	0.780	400	7.07	34.35	26.918	114.4	0.755
450	6.59	34.35	26.984	108.2	0.839	450	6.53	34.36	27.000	106.7	0.814
500	6.43	34.38	27.029	103.9	0.896	500	6.21	34.37	27.049	101.9	0.869
550	6.08	34.40	27.090	98.1	0.950	550	5.98	34.40	27.103	96.9	0.922
600	5.90	34.43	27.136	93.7	1.002	600	5.57	34.41	27.161	91.3	0.973
700	5.34	34.45	27.221	85.7	1.100	700	5.02	34.43	27.243	83.6	1.068
800	4.78	34.47	27.302	78.0	1.190	800	4.60	34.46	27.314	76.8	1.157
900	4.43	34.49	27.357	72.8	1.274	900	4.23	34.48	27.370	71.5	1.240
1000	3.97	34.51	27.421	66.7	1.353	1000	3.91	34.51	27.427	66.1	1.317

117025			RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510			117030		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 58.0N	114 37.0W	10/15/75	1335 GMT	28 48.0N	114 56.5W	10/15/75	1725 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
56M	310	3KT	0	270 1 6	99M	320	10KT	0	320 3 10		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.32	33.52	24.782	317.4	0.000	0	16.19	33.58	24.634	331.5	0.000
10	15.19	33.51	24.803	315.4	0.031	10	15.89	33.56	24.686	326.5	0.032
20	14.52	33.51	24.948	301.6	0.062	20	13.96	33.50	25.058	291.2	0.063
30	13.90	33.51	25.078	289.2	0.092	30	13.22	33.48	25.193	278.3	0.092
40	13.44	33.51	25.172	280.3	0.120	40	12.51	33.50	25.348	263.5	0.119
50	13.19	33.53	25.238	274.0	0.148	50	11.80	33.60	25.561	243.3	0.145
						75	11.05	33.79	25.845	216.2	0.202

117035				RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510				117040						
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 38.0N	115 16.0W	10/15/75	2012 GMT	28 27.5N	115 35.0W	10/14/75	0351 GMT										
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
220M	320	12KT	0	320	3	10	845M	350	21KT	1	350	10	7				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.28	33.59	24.387	355.0	0.000	0	18.38	33.62	24.144	378.2	0.000	0	18.38	33.62	24.144	378.2	0.000
10	16.97	33.59	24.461	348.0	0.035	10	18.38	33.62	24.144	378.2	0.037	10	18.38	33.62	24.144	378.2	0.037
20	16.89	33.59	24.479	346.2	0.069	20	18.38	33.63	24.151	377.5	0.075	20	18.38	33.63	24.151	377.5	0.075
30	16.48	33.56	24.552	339.3	0.104	30	18.38	33.63	24.151	377.5	0.113	30	18.38	33.63	24.151	377.5	0.113
40	12.61	33.52	25.145	282.8	0.135	40	16.18	33.54	24.605	334.2	0.149	40	16.18	33.54	24.605	334.2	0.149
50	12.07	33.60	25.316	266.6	0.163	50	14.33	33.55	25.019	294.9	0.180	50	14.33	33.55	25.019	294.9	0.180
75	12.30	33.85	25.659	233.9	0.226	75	12.66	33.63	25.419	256.7	0.250	75	12.66	33.63	25.419	256.7	0.250
100	10.54	33.70	25.866	214.3	0.282	100	11.67	33.71	25.670	232.9	0.311	100	11.67	33.71	25.670	232.9	0.311
125	9.44	33.80	26.129	189.3	0.333	125	11.95	33.90	25.765	223.9	0.369	125	11.95	33.90	25.765	223.9	0.369
150	9.30	34.00	26.308	172.3	0.379	150	10.81	33.89	25.966	204.8	0.424	150	10.81	33.89	25.966	204.8	0.424
175	9.50	34.11	26.361	167.2	0.422	175	9.38	33.90	26.217	180.9	0.473	175	9.38	33.90	26.217	180.9	0.473
200	9.38	34.23	26.474	156.5	0.464	200	8.83	33.99	26.375	165.9	0.517	200	8.83	33.99	26.375	165.9	0.517
						225	8.66	34.17	26.542	150.0	0.557	225	8.66	34.17	26.542	150.0	0.557
						250	8.70	34.23	26.583	146.1	0.596	250	8.70	34.23	26.583	146.1	0.596
						275	8.56	34.26	26.628	141.8	0.633	275	8.56	34.26	26.628	141.8	0.633
						300	8.35	34.29	26.684	136.6	0.669	300	8.35	34.29	26.684	136.6	0.669
						350	8.02	34.36	26.789	126.6	0.738	350	8.02	34.36	26.789	126.6	0.738
						400	7.41	34.33	26.855	120.4	0.803	400	7.41	34.33	26.855	120.4	0.803
						450	6.80	34.35	26.955	110.9	0.864	450	6.80	34.35	26.955	110.9	0.864
						500	6.48	34.36	27.006	106.0	0.921	500	6.48	34.36	27.006	106.0	0.921
						550	6.21	34.38	27.057	101.2	0.977	550	6.21	34.38	27.057	101.2	0.977
						600	5.78	34.39	27.120	95.2	1.030	600	5.78	34.39	27.120	95.2	1.030
						700	5.15	34.42	27.220	85.8	1.129	700	5.15	34.42	27.220	85.8	1.129

RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				117050							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
28 08.0N	116 15.0W	10/13/75	2145 GMT	4309M	360	22KT	0	340	10	6					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	19.12	33.634	5.52					394.9	0	19.12	33.634	5.52	23.969	394.9	0.000
11	19.12	33.630	5.59					395.2	10	19.12	33.631	5.58	23.966	395.2	0.039
26	19.00	33.621	5.56					393.0	20	19.04	33.626	5.57	23.980	393.9	0.079
41	16.83	33.498	6.16					351.6	30	18.50	33.585	5.71	24.086	383.8	0.117
60	14.68	33.492	6.09					306.2	50	15.71	33.495	6.12	24.677	327.4	0.189
80	13.51	33.525	5.67					280.5	75	13.74	33.516	5.79	25.114	285.8	0.266
100	12.44	33.575	5.11					256.7	100	12.44	33.575	5.11	25.470	256.7	0.334
124	11.11	33.637	4.35					228.6	125	11.07	33.644	4.30	25.727	227.6	0.396
149	10.47	33.796	3.46					206.1	150	10.43	33.800	3.45	25.961	205.3	0.450
173	9.84	33.881	3.40					189.6	200	10.02	34.089	2.62	26.257	177.1	0.548
207	10.11	34.143	2.39					174.5	250	9.42	34.214	2.07	26.454	158.4	0.634
270	8.93	34.199	1.93					151.9	300	8.25	34.177	1.78	26.610	143.6	0.712
362	7.11	34.147	1.46					130.0	400	7.03	34.222	1.08	26.822	123.5	0.851
458	6.92	34.314	0.54					115.1	500	6.62	34.338	0.45	26.970	109.5	0.975
584	5.95	34.356	0.30					99.8	600	5.85	34.362	0.30	27.088	98.3	1.086
710	5.27	34.399	0.33					88.7	700	5.31	34.396	0.32	27.181	89.5	1.188
852	4.61	34.458	0.39					77.1	800	4.83	34.437	0.36	27.269	81.0	1.282
1005	4.08	34.493	0.53					69.0	1000	4.09	34.492	0.52	27.394	69.2	1.451

117050				RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7510				117060						
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 08.0N	116 15.0W	10/13/75	2026 GMT	27 50.0N	116 54.0W	10/13/75	1342 GMT										
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
4309M	360	22KT	0	340	10	6	3546M	360	20KT	1	360	10	8				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	19.11	33.63	23.968	395.0	0.000	0	19.82	33.78	23.900	401.5	0.000	0	19.82	33.78	23.900	401.5	0.000
10	19.11	33.63	23.968	395.0	0.039	10	19.82	33.78	23.900	401.5	0.040	10	19.82	33.78	23.900	401.5	0.040
20	19.11	33.63	23.968	395.0	0.079	20	19.81	33.78	23.903	401.2	0.080	20	19.81	33.78	23.903	401.2	0.080
30	19.08	33.63	23.976	394.2	0.118	30	19.43	33.74	23.970	394.7	0.120	30	19.43	33.74	23.970	394.7	0.120
40	18.01	33.53	24.166	376.1	0.157	40	17.08	33.69	24.511	343.2	0.157	40	17.08	33.69	24.511	343.2	0.157
50	15.98	33.51	24.628	332.1	0.192	50	15.38	33.61	24.838	312.1	0.190	50	15.38	33.61	24.838	312.1	0.190
75	13.84	33.50	25.083	288.8	0.270	75	13.28	33.55	25.235	274.3	0.263	75	13.28	33.55	25.235	274.3	0.263
100	12.63	33.56	25.371	261.3	0.340	100	11.73	33.64	25.605	239.1	0.328	100	11.73	33.64	25.605	239.1	0.328
125	11.06	33.67	25.750	225.3	0.401	125	10.53	33.78	25.930	208.2	0.385	125	10.53	33.78	25.930	208.2	0.385
150	10.46	33.84	25.988	202.6	0.455	150	9.89	33.95	26.171	185.3	0.435	150	9.89	33.95	26.171	185.3	0.435
175	10.15	34.10	26.244	178.3	0.504	175	9.31	34.03	26.330	170.2	0.480	175	9.31	34.03	26.330	170.2	0.480
200	9.96	34.17	26.331	170.1	0.548	200	8.86	34.07	26.433	160.4	0.522	200	8.86	34.07	26.433	160.4	0.522
225	9.70	34.25	26.437	160.0	0.591	225	8.56	34.11	26.511	153.0	0.562	225	8.56	34.11	26.511	153.0	0.562
250	9.06	34.22	26.518	152.3	0.631	250	8.32	34.15	26.579	146.5	0.601	250	8.32	34.15	26.579	146.5	0.601
275	8.61	34.21	26.582	146.3	0.670	275	8.02	34.20	26.664	138.5	0.638	275	8.02	34.20	26.664	138.5	0.638
300	7.65	34.11	26.648	140.1	0.707	300	7.77	34.23	26.724	132.8	0.673	300	7.77	34.23	26.724	132.8	0.673
350	7.19	34.14	26.737	131.6	0.777	350	7.40	34.28	26.817	124.0	0.740	350	7.40	34.28	26.817	124.0	0.740
4																	

117070		RV ALXANDER AGASSIZ			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 21.5N	117 32.5W	10/13/75	0812 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
3738M	360	19KT			
Z	T	S	SIGMA T	DT	DD
0	19.41	33.66	23.915	400.1	0.000
10	19.41	33.66	23.915	400.1	0.040
20	19.41	33.66	23.915	400.1	0.080
30	19.41	33.66	23.915	400.1	0.120
40	17.48	33.59	24.340	359.5	0.158
50	15.53	33.57	24.174	318.1	0.192
75	12.78	33.63	25.396	259.0	0.264
100	11.43	33.70	25.707	229.4	0.326
125	10.68	33.86	25.966	204.8	0.381
150	9.90	34.05	26.248	178.0	0.429
175	9.73	34.16	26.362	167.1	0.473
200	9.33	34.24	26.490	155.0	0.515
225	8.58	34.22	26.594	145.1	0.553
250	8.84	34.32	26.632	141.6	0.590
275	8.84	34.38	26.678	137.1	0.626
300	8.52	34.38	26.728	132.3	0.661
350	8.28	34.43	26.805	125.1	0.729
400	7.78	34.43	26.879	118.0	0.793
450	7.26	34.44	26.962	110.2	0.853
500	6.85	34.43	27.011	105.5	0.911
550	6.37	34.42	27.068	100.2	0.966
600	5.76	34.39	27.122	95.0	1.019
700	5.23	34.42	27.210	86.7	1.118
800	4.95	34.48	27.290	79.1	1.210
900	4.48	34.50	27.359	72.6	1.295
1000	4.11	34.52	27.415	67.3	1.374

CALCOFI CRUISE 7510		117080			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 05.0N	118 09.0W	10/13/75	0230 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4117M	020	17KT	2	310 5 8	
Z	T	S	SIGMA T	DT	DD
0	19.51	33.68	23.904	401.1	0.000
10	19.51	33.68	23.904	401.1	0.040
20	19.51	33.68	23.904	401.1	0.080
30	18.98	33.66	24.024	389.6	0.119
40	16.40	33.53	24.547	339.8	0.156
50	15.73	33.47	24.653	329.7	0.190
75	14.16	33.55	25.054	291.5	0.268
100	12.50	33.65	25.466	252.3	0.336
125	10.81	33.78	25.880	212.9	0.395
150	9.95	33.90	26.123	189.9	0.446
175	9.50	34.07	26.330	170.2	0.492
200	9.28	34.15	26.428	160.9	0.534
225	8.93	34.25	26.563	148.1	0.574
250	8.90	34.31	26.614	143.2	0.617
275	8.55	34.31	26.669	138.0	0.648
300	8.46	34.33	26.699	135.2	0.683
350	8.16	34.41	26.807	124.9	0.751
400	7.69	34.41	26.877	118.3	0.816
450	6.95	34.37	26.951	111.3	0.876
500	6.31	34.34	27.013	105.4	0.934
550	5.94	34.36	27.076	99.4	0.989
600	5.61	34.38	27.133	94.0	1.041
700	5.00	34.42	27.237	84.1	1.138
800	4.62	34.45	27.304	77.8	1.227
900	4.35	34.47	27.350	73.5	1.311
1000	3.99	34.49	27.403	68.4	1.391

118039		RV ALXANDER AGASSIZ			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 18.5N	115 24.0W	10/14/75	10640 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
242M	340	13KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.58	33.64	24.109	381.5	0.000
10	18.58	33.64	24.109	381.5	0.038
20	18.57	33.64	24.112	381.3	0.076
30	16.06	33.56	24.648	330.2	0.112
40	14.47	33.54	24.982	298.4	0.143
50	13.93	33.58	25.125	284.7	0.172
75	12.49	33.59	25.422	256.5	0.240
100	10.99	33.69	25.779	222.6	0.301
125	10.17	33.86	26.054	196.4	0.354
150	10.22	34.12	26.248	178.0	0.401
175	9.97	34.23	26.376	165.8	0.445
200	9.51	34.29	26.500	154.1	0.486

CALCOFI CRUISE 7510		119033			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 19.0N	114 53.0W	10/14/75	1043 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
108M	360	23KT	1		
Z	T	S	SIGMA T	DT	DD
0	18.68	33.65	24.092	383.2	0.000
10	18.68	33.65	24.092	383.2	0.038
20	18.68	33.65	24.092	383.2	0.076
30	18.66	33.65	24.097	382.7	0.115
40	18.52	33.62	24.109	381.5	0.153
50	15.42	33.58	24.807	315.1	0.188
75	12.88	33.57	25.330	265.3	0.261

120030		RV ALXANDER AGASSIZ			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 13.0N	114 34.0W	10/15/75	0328 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
88M	340	15KT	1	340 2 5	
Z	T	S	SIGMA T	DT	DD
0	17.60	33.59	24.311	362.3	0.000
10	17.60	33.59	24.311	362.3	0.036
20	17.54	33.59	24.325	360.9	0.072
30	16.96	33.55	24.432	350.7	0.108
40	16.18	33.53	24.598	335.0	0.142
50	14.26	33.52	25.010	295.7	0.174
75	11.80	33.67	25.615	238.2	0.241

CALCOFI CRUISE 7510		120035			
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 03.0N	114 54.5W	10/14/75	1328 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
80M	340	17KT	0	340 4 5	
Z	T	S	SIGMA T	DT	DD
0	18.97	33.66	24.026	389.4	0.000
10	18.97	33.66	24.026	389.4	0.038
20	18.97	33.66	24.026	389.4	0.077
30	18.97	33.66	24.026	389.4	0.116
40	18.97	33.66	24.026	389.4	0.156
50	18.85	33.63	24.034	388.7	0.195

120045				RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				120050					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 43.0N	115 33.0W	10/11/75	211 GMT	27 33.0N	115 52.5W	10/12/75	0302 GMT										
BOTTOM	WIND	SPFFD	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
2227M	350	15KT	1	340 4 6	4117M	350	15KT	2	350 3 11								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.37	33.73	24.230	370.0	0.000	0	19.17	33.77	24.060	386.2	0.000	0	19.17	33.77	24.060	386.2	0.000
10	18.13	33.72	24.281	365.1	0.036	10	19.17	33.77	24.060	386.2	0.038	10	19.17	33.77	24.060	386.2	0.038
20	16.58	33.69	24.628	332.1	0.071	20	19.03	33.73	24.065	385.7	0.077	20	19.03	33.73	24.065	385.7	0.077
30	14.93	33.65	24.967	299.7	0.103	30	16.33	33.65	24.655	329.5	0.113	30	16.33	33.65	24.655	329.5	0.113
40	13.98	33.66	25.177	279.8	0.132	40	14.79	33.61	24.967	299.8	0.144	40	14.79	33.61	24.967	299.8	0.144
50	13.59	33.71	25.296	268.5	0.159	50	14.21	33.61	25.090	288.1	0.174	50	14.21	33.61	25.090	288.1	0.174
75	12.56	33.81	25.578	241.6	0.224	75	12.05	33.77	25.645	235.3	0.240	75	12.05	33.77	25.645	235.3	0.240
100	12.00	33.88	25.740	226.3	0.283	100	11.77	33.95	25.837	217.0	0.297	100	11.77	33.95	25.837	217.0	0.297
125	11.06	33.93	25.952	206.1	0.337	125	11.37	34.11	26.036	198.2	0.349	125	11.37	34.11	26.036	198.2	0.349
150	10.58	34.14	26.201	182.5	0.387	150	11.08	34.25	26.197	182.8	0.398	150	11.08	34.25	26.197	182.8	0.398
175	10.28	34.20	26.300	173.1	0.432	175	10.87	34.37	26.328	170.4	0.443	175	10.87	34.37	26.328	170.4	0.443
200	9.86	34.32	26.465	157.4	0.474	200	10.44	34.44	26.459	158.0	0.485	200	10.44	34.44	26.459	158.0	0.485
225	9.16	34.30	26.565	147.9	0.514	225	10.31	34.44	26.481	155.8	0.525	225	10.31	34.44	26.481	155.8	0.525
250	8.76	34.28	26.613	143.3	0.551	250	9.64	34.42	26.580	146.5	0.564	250	9.64	34.42	26.580	146.5	0.564
275	8.33	34.27	26.672	137.8	0.588	275	9.27	34.38	26.610	143.7	0.602	275	9.27	34.38	26.610	143.7	0.602
300	8.16	34.30	26.721	133.1	0.623	300	8.70	34.36	26.685	136.5	0.638	300	8.70	34.36	26.685	136.5	0.638
350	7.56	34.32	26.825	123.2	0.690	350	8.21	34.35	26.753	130.1	0.708	350	8.21	34.35	26.753	130.1	0.708
400	7.02	34.33	26.909	115.2	0.752	400	7.53	34.35	26.853	120.5	0.774	400	7.53	34.35	26.853	120.5	0.774
450	6.59	34.34	26.976	108.9	0.811	450	6.98	34.36	26.939	112.4	0.836	450	6.98	34.36	26.939	112.4	0.836
500	6.03	34.35	27.057	101.2	0.867	500	6.36	34.32	26.990	107.5	0.894	500	6.36	34.32	26.990	107.5	0.894
550	5.77	34.37	27.105	96.6	0.920	550	6.01	34.36	27.067	100.2	0.950	550	6.01	34.36	27.067	100.2	0.950
600	5.59	34.39	27.143	93.0	0.971	600	5.82	34.39	27.115	95.7	1.002	600	5.82	34.39	27.115	95.7	1.002
700	5.10	34.42	27.226	85.2	1.068	700	5.33	34.45	27.222	85.6	1.101	700	5.33	34.45	27.222	85.6	1.101
800	4.57	34.47	27.325	75.8	1.157	800	4.89	34.48	27.297	78.4	1.192	800	4.89	34.48	27.297	78.4	1.192
900	4.21	34.49	27.380	70.6	1.239	900	4.46	34.49	27.353	73.1	1.277	900	4.46	34.49	27.353	73.1	1.277
1000	3.85	34.51	27.434	65.5	1.316	1000	4.13	34.52	27.412	67.5	1.356	1000	4.13	34.52	27.412	67.5	1.356

120060				RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				120070					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
27 13.5N	116 31.0W	10/12/75	0841 GMT	26 56.0N	117 10.0W	10/12/75	1423 GMT										
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
4117M	350	12KT			3926M	010	14KT	1	010 6 12								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	20.09	33.76	23.814	409.6	0.000	0	20.06	33.74	23.807	410.3	0.000	0	20.06	33.74	23.807	410.3	0.000
10	20.09	33.76	23.814	409.6	0.040	10	20.06	33.74	23.807	410.3	0.041	10	20.06	33.74	23.807	410.3	0.041
20	20.09	33.76	23.814	409.6	0.082	20	20.06	33.74	23.807	410.3	0.082	20	20.06	33.74	23.807	410.3	0.082
30	20.09	33.76	23.814	409.6	0.123	30	19.68	33.73	23.898	401.6	0.122	30	19.68	33.73	23.898	401.6	0.122
40	18.58	33.77	24.208	372.1	0.162	40	16.98	33.58	24.451	349.0	0.160	40	16.98	33.58	24.451	349.0	0.160
50	17.45	33.73	24.454	348.7	0.198	50	15.85	33.56	24.695	325.7	0.194	50	15.85	33.56	24.695	325.7	0.194
75	15.26	33.69	24.926	303.7	0.280	75	14.03	33.55	25.082	288.9	0.271	75	14.03	33.55	25.082	288.9	0.271
100	12.93	33.66	25.390	259.6	0.351	100	12.70	33.60	25.389	259.7	0.340	100	12.70	33.60	25.389	259.7	0.340
125	11.90	33.76	25.666	233.3	0.413	125	11.23	33.72	25.459	224.5	0.401	125	11.23	33.72	25.459	224.5	0.401
150	10.73	33.85	25.949	206.4	0.469	150	10.33	33.86	26.027	199.0	0.455	150	10.33	33.86	26.027	199.0	0.455
175	10.11	33.99	26.166	185.8	0.519	175	9.67	33.93	26.193	183.2	0.504	175	9.67	33.93	26.193	183.2	0.504
200	9.67	34.07	26.302	172.9	0.565	200	9.39	34.09	26.364	167.0	0.549	200	9.39	34.09	26.364	167.0	0.549
225	9.23	34.16	26.444	159.3	0.607	225	8.91	34.12	26.464	157.5	0.590	225	8.91	34.12	26.464	157.5	0.590
250	8.72	34.18	26.541	150.2	0.647	250	8.63	34.15	26.531	151.1	0.630	250	8.63	34.15	26.531	151.1	0.630
275	8.26	34.20	26.628	141.9	0.685	275	8.56	34.25	26.621	142.6	0.668	275	8.56	34.25	26.621	142.6	0.668
300	8.05	34.23	26.683	136.7	0.721	300	7.86	34.18	26.672	137.8	0.704	300	7.86	34.18	26.672	137.8	0.704
350	7.42	34.28	26.814	124.2	0.789	350	7.24	34.19	26.769	128.6	0.773	350	7.24	34.19	26.769	128.6	0.773
400	6.95	34.31	26.903	115.8	0.852	400	6.90	34.24	26.855	120.3	0.838	400	6.90	34.24	26.855	120.3	0.838
450	6.85	34.37	26.964	110.0	0.912	450	6.54	34.29	26.943	112.0	0.900	450	6.54	34.29	26.943	112.0	0.900
500	6.42	34.37	27.022	104.5	0.969	500	6.17	34.31	27.007	105.9	0.958	500	6.17	34.31	27.007	105.9	0.958
550	6.09	34.39	27.081	99.0	1.023	550	5.88	34.34	27.068	100.2	1.013	550	5.88	34.34	27.068	100.2	1.013
600	5.78	34.41	27.136	93.8	1.075	600	5.71	34.40	27.136	93.7	1.065	600	5.71	34.40	27.136	93.7	1.065
700	5.21	34.43	27.220	85.7	1.173	700	5.22	34.42	27.211	86.6	1.163	700	5.22	34.42	27.211	86.6	1.163
800	4.74	34.46	27.298	78.3	1.264	800	4.76	34.45	27.288	79.3	1.254	800	4.76	34.45	27.288	79.3	1.254
900	4.44	34.48	27.348	73.7	1.349	900	4.36	34.47	27.348	73.6	1.340	900	4.36	34.47	27.348	73.6	1.340
1000	4.05	34.51	27.413	67.5	1.428	1000	4.03	34.50	27.407	68.0	1.420	1000	4.03	34.50	27.407	68.0	1.420

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7510						120070					
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME					BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES									
26 56.0N	117 10.0W	10/12/75	1508					3926M	010	14KT	1										
Z	T	S	O2	PO4	SI03	NO2	NO3														

120080		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				123037		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
26 32.5N	117 49.0W	10/12/75	2047 GMT		27 24.5N	114 40.0W	10/10/75	1745 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3926M	360	16KT	1	350 5 6		69M	250	5KT	0	320 3 5		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	
0	20.14	34.00	23.984	393.5	0.000	0	17.78	33.67	24.328	360.6	0.000	
10	20.13	34.00	23.986	393.2	0.039	10	17.36	33.64	24.407	353.2	0.035	
20	20.09	34.00	23.997	392.2	0.078	20	16.19	33.61	24.657	329.3	0.069	
30	20.04	34.00	24.010	391.0	0.117	30	14.79	33.62	24.975	299.1	0.101	
40	18.43	33.98	24.406	353.3	0.155	40	14.32	33.65	25.098	287.3	0.130	
50	17.70	33.93	24.546	339.8	0.190	50	14.09	33.74	25.215	276.2	0.159	
75	16.59	33.89	24.779	317.7	0.272							
100	15.58	33.92	25.032	293.6	0.349							
125	13.80	33.73	25.268	271.1	0.421							
150	12.10	33.76	25.628	236.9	0.485							
175	10.80	33.86	25.944	206.8	0.542							
200	10.19	33.98	26.144	187.9	0.592							
225	9.72	34.14	26.348	168.5	0.638							
250	9.61	34.24	26.444	159.3	0.680							
275	9.42	34.32	26.538	150.4	0.720							
300	8.99	34.35	26.631	141.6	0.758							
350	8.60	34.38	26.716	133.5	0.830							
400	7.89	34.37	26.816	124.0	0.897							
450	6.67	34.29	26.926	113.7	0.960							
500	6.26	34.31	26.996	107.0	1.019							
550	5.94	34.35	27.068	100.2	1.074							
600	5.76	34.37	27.107	96.5	1.127							
700	5.22	34.43	27.219	85.8	1.226							
800	4.83	34.46	27.288	79.3	1.317							
900	4.40	34.47	27.344	74.0	1.403							
1000	4.04	34.50	27.406	68.1	1.483							

123050		RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				123060		
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
26 58.0N	115 31.0W	10/10/75	0711 GMT		26 34.5N	116 10.0W	10/10/75	0033 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3311M	350	19KT	1	350 6 10		3738M	350	13KT	1	340 6 9		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	
0	19.65	33.78	23.944	397.3	0.000	0	20.28	33.74	23.749	415.8	0.000	
10	19.66	33.79	23.949	396.8	0.039	10	20.27	33.74	23.752	415.6	0.041	
20	19.48	33.78	23.988	393.1	0.079	20	20.13	33.74	23.789	412.1	0.083	
30	17.43	33.64	24.390	354.8	0.116	30	20.10	33.73	23.789	412.1	0.124	
40	14.58	33.57	24.981	298.4	0.149	40	17.78	33.78	24.412	352.6	0.162	
50	13.66	33.57	25.173	280.2	0.178	50	17.23	33.79	24.552	339.3	0.197	
75	12.60	33.81	25.570	242.4	0.244	75	15.51	33.77	24.932	303.1	0.278	
100	11.54	33.90	25.841	216.6	0.302	100	13.05	33.71	25.405	258.1	0.348	
125	11.28	34.08	26.029	198.8	0.354	125	11.26	33.78	25.800	220.6	0.409	
150	11.20	34.18	26.121	190.1	0.404	150	10.18	33.94	26.114	190.7	0.461	
175	11.03	34.29	26.237	179.0	0.451	175	10.31	34.19	26.287	174.3	0.508	
200	10.85	34.49	26.425	161.2	0.494	200	10.21	34.30	26.389	164.5	0.551	
225	10.56	34.50	26.484	155.5	0.535	225	9.85	34.35	26.490	155.0	0.592	
250	10.18	34.50	26.550	149.2	0.575	250	9.90	34.42	26.536	150.6	0.632	
275	9.88	34.50	26.602	144.4	0.613	275	9.67	34.44	26.590	145.5	0.670	
300	9.19	34.43	26.661	138.7	0.650	300	9.46	34.45	26.633	141.4	0.707	
350	8.36	34.39	26.761	129.3	0.720	350	8.73	34.43	26.735	131.8	0.779	
400	7.46	34.35	26.863	119.6	0.785	400	8.19	34.42	26.810	124.6	0.846	
450	7.30	34.43	26.949	111.5	0.846	450	7.72	34.41	26.872	118.7	0.911	
500	6.53	34.36	27.000	106.7	0.905	500	7.02	34.39	26.957	110.7	0.972	
550	6.41	34.43	27.071	99.9	0.960	550	6.63	34.39	27.010	105.7	1.030	
600	6.06	34.43	27.116	95.6	1.013	600	6.26	34.41	27.074	99.5	1.086	
700	5.45	34.45	27.208	86.9	1.113	700	5.56	34.43	27.179	89.7	1.189	
800	4.96	34.47	27.281	79.9	1.205	800	5.07	34.47	27.269	81.2	1.283	
900	4.49	34.49	27.350	73.4	1.291	900	4.58	34.48	27.332	75.1	1.371	
1000	4.16	34.51	27.402	68.6	1.371	1000	4.17	34.51	27.400	68.7	1.452	

RV ALEXANDER AGASSIZ				CALCOFI CRUISE 7510				123060							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSANGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
26 34.5N	116 10.0W	10/10/75	0118 GMT	3738M	350	13KT	1	340 6 9	Z	T	S	O2	SIGT	DT	DD
0	20.24	33.749	5.39						0	20.24	33.749	5.39	23.767	414.2	0.000
10	20.24	33.744	5.37						10	20.24	33.744	5.37	23.763	414.5	0.041
25	20.11	33.739	5.38						20	20.15	33.741	5.37	23.783	412.6	0.082
39	17.97	33.932	5.88						30	19.40	33.808	5.55	24.027	389.3	0.123
59	16.29	33.888	5.86						50	16.91	33.910	5.86	24.720	323.3	0.194
79	15.20	33.853	5.64						75	15.45	33.866	5.71	25.019	294.8	0.272
99	12.91	33.700	4.80						100	12.81	33.700	4.76	25.443	254.5	0.341
123	11.11	33.769	4.05						125	11.00	33.779	3.98	25.844	216.3	0.401
148	10.24	33.922	3.12						150	10.24	33.946	3.02	26.107	191.4	0.452
173	10.35	34.166	1.98						200	10.18	34.282	1.52	26.380	165.5	0.543
206	10.13	34.296	1.48						250	9.86	34.404	0.97	26.529	151.3	0.625
270	9.73	34.431	0.80						300	9.42	34.441	0.65	26.632	141.5	0.701
362	8.70	34.423	0.52						400	8.29	34.421	0.42	26.795	126.0	0.842
460	7.66	34.417	0.31						500	7.18	34.410	0.28	26.949	111.4	0.968
587	6.24	34.401	0.23						600	6.13	34.401	0.23	27.083	98.7	1.081
715	5.44	34.416	0.35						700	5.51	34.413	0.33	27.171	90.4	1.184
857	4.79	34.476	0.37						800	5.03	34.451	0.36	27.258	82.2	1.280
1013	4.13	34.509	0.54						1000	4.18	34.507	0.51	27.397	69.0	1.449

127034		RV ALF XANDER AGASSIZ				CALCOFI CRUISE 7510				127040	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
26 55.5N	114 06.0W	10/19/75	0302 GMT			26 44.0N	114 29.5W	10/09/75	0729 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
75M	010	15KT	0	49		3169M	350	13KT	1	49	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.78	33.75	24.143	378.3	0.000	0	20.31	33.82	23.802	410.8	0.000
10	18.29	33.73	24.250	368.1	0.037	10	20.32	33.82	23.799	411.1	0.041
20	17.78	33.73	24.374	356.2	0.073	20	20.32	33.82	23.799	411.1	0.082
30	16.04	33.77	24.813	314.4	0.107	30	17.38	33.73	24.471	347.1	0.120
40	15.32	33.80	24.997	296.9	0.137	40	15.33	33.66	24.888	307.3	0.153
50	15.02	33.77	25.040	292.8	0.167	50	14.69	33.63	25.004	296.3	0.183
						75	12.53	33.64	25.453	253.6	0.252
						100	10.83	33.71	25.822	218.4	0.312
						125	10.23	33.89	26.067	195.2	0.364
						150	9.63	34.00	26.254	177.4	0.411
						175	9.66	34.18	26.389	164.6	0.455
						200	9.58	34.29	26.488	155.1	0.496
						225	9.39	34.35	26.566	147.8	0.535
						250	8.97	34.37	26.650	139.8	0.572
						275	8.72	34.42	26.729	132.3	0.607
						300	8.58	34.43	26.758	129.5	0.641
						350	7.69	34.38	26.853	120.5	0.707
						400	7.10	34.38	26.938	112.5	0.768
						450	6.82	34.41	27.000	106.6	0.826
						500	6.45	34.42	27.057	101.2	0.882
						550	6.17	34.44	27.110	96.2	0.935
						600	5.86	34.46	27.165	91.0	0.985
						700	5.40	34.47	27.230	84.9	1.082
						800	4.84	34.49	27.311	77.1	1.171
						900	4.43	34.49	27.357	72.8	1.255
						1000	4.07	34.51	27.411	67.7	1.335

127050		RV ALF XANDER AGASSIZ				CALCOFI CRUISE 7510				127060	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
26 24.0N	115 10.0W	10/09/75	1343 GMT			26 03.5N	115 47.0W	10/09/75	1913 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
4309M	010	12KT	1	330 6 10		3738M	330	12KT	1	330 6 12	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	20.40	33.83	23.786	412.4	0.000	0	20.34	33.81	23.786	412.3	0.000
10	20.40	33.83	23.786	412.4	0.041	10	20.24	33.81	23.813	409.8	0.041
20	20.41	33.83	23.783	412.6	0.082	20	20.21	33.81	23.821	409.0	0.082
30	20.40	33.83	23.786	412.4	0.123	30	19.43	33.78	24.001	391.8	0.122
40	17.43	33.66	24.405	353.3	0.162	40	15.78	33.65	24.780	317.6	0.157
50	14.07	33.68	25.173	280.2	0.194	50	13.56	33.66	25.263	271.6	0.187
75	12.25	33.74	25.584	241.1	0.259	75	11.47	33.74	25.730	227.2	0.250
100	11.72	33.87	25.785	222.0	0.318	100	10.70	33.92	26.009	200.7	0.304
125	10.06	33.95	26.143	188.0	0.369	125	9.92	34.00	26.205	182.0	0.352
150	9.51	34.10	26.352	168.1	0.415	150	9.42	34.09	26.359	167.5	0.397
175	9.02	34.17	26.486	155.4	0.456	175	9.89	34.28	26.429	160.8	0.438
200	8.91	34.22	26.542	150.0	0.495	200	9.43	34.31	26.529	151.3	0.478
225	9.16	34.36	26.612	143.5	0.533	225	9.22	34.32	26.571	147.4	0.517
250	8.88	34.38	26.672	137.7	0.569	250	8.94	34.33	26.624	142.3	0.554
275	8.33	34.34	26.727	132.6	0.604	275	8.80	34.36	26.669	138.0	0.590
300	8.22	34.34	26.743	131.0	0.638	300	8.53	34.39	26.735	131.8	0.626
350	7.81	34.41	26.859	120.0	0.704	350	8.11	34.41	26.814	124.2	0.693
400	7.44	34.41	26.913	114.8	0.766	400	7.46	34.39	26.895	116.6	0.756
450	6.72	34.36	26.974	109.1	0.825	450	6.91	34.38	26.964	110.0	0.816
500	6.19	34.37	27.052	101.7	0.881	500	6.27	34.35	27.026	104.2	0.873
550	5.80	34.39	27.117	95.5	0.934	550	6.12	34.40	27.085	98.6	0.927
600	5.63	34.44	27.178	89.8	0.984	600	5.77	34.42	27.145	92.9	0.979
700	5.17	34.46	27.249	83.0	1.079	700	5.21	34.44	27.228	84.9	1.076
800	4.75	34.48	27.313	76.9	1.167	800	4.77	34.46	27.295	78.6	1.166
900	4.34	34.50	27.374	71.1	1.250	900	4.45	34.47	27.339	74.5	1.252
1000	4.07	34.52	27.419	66.9	1.328	1000	4.08	34.50	27.402	68.5	1.333

130028		RV ALF XANDER AGASSIZ				CALCOFI CRUISE 7510				130030	
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
26 33.5N	113 22.0W	10/18/75	1726 GMT			26 30.0N	113 29.5W	10/08/75	1536 GMT		
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
58M	320	5KT	0	49		75M	340	3KT	1	49	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	20.93	34.21	23.933	398.3	0.000	0	20.71	34.13	23.931	398.5	0.000
10	20.85	34.21	23.954	396.3	0.039	10	20.66	34.13	23.944	397.2	0.039
20	20.66	34.20	23.997	392.1	0.079	20	17.48	33.76	24.469	347.2	0.077
30	18.07	34.02	24.525	341.9	0.116	30	15.79	33.74	24.847	311.2	0.110
40	15.63	33.79	24.921	304.2	0.148	40	15.13	33.76	25.008	295.9	0.140
50	14.71	33.77	25.107	286.5	0.178	50	14.33	33.74	25.165	280.9	0.169

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

130040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES								
26 09.0N	114 07.0W	10/ 8/75	0918 GMT	2602M	340	13KT	0	310 5 6								
Z	T	S	O2	PO4	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	20.76	33.849	5.31						420.1	0	20.76	33.849	5.31	23.704	420.1	0.000
10	20.76	33.847	5.30						420.3	10	20.76	33.847	5.30	23.703	420.3	0.042
25	20.75	33.846	5.29						420.1	20	20.75	33.847	5.29	23.704	420.2	0.084
40	16.64	33.653	6.09						336.1	30	19.44	33.763	5.55	23.983	393.6	0.124
60	15.69	33.686	6.01						313.1	50	16.16	33.669	6.05	24.707	324.6	0.196
80	14.36	33.620	5.90						290.3	75	14.71	33.641	5.92	25.006	296.0	0.274
100	12.99	33.580	5.32						266.6	100	12.99	33.580	5.32	25.316	266.6	0.345
124	11.15	33.742	4.17						221.5	125	11.09	33.750	4.13	25.806	220.0	0.407
150	10.16	33.908	3.56						192.7	150	10.16	33.908	3.56	26.093	192.7	0.459
174	9.98	34.005	3.15						182.6	200	9.55	34.087	2.79	26.335	169.7	0.552
209	9.39	34.113	2.67						165.3	250	8.96	34.245	1.73	26.553	149.1	0.634
272	8.79	34.305	1.24						141.9	300	8.49	34.346	0.89	26.706	134.5	0.707
364	7.84	34.387	0.47						122.1	400	7.53	34.391	0.40	26.885	117.5	0.839
461	7.05	34.390	0.30						111.1	500	6.73	34.408	0.23	27.010	105.6	0.958
587	6.08	34.452	0.17						94.2	600	5.99	34.454	0.18	27.143	93.1	1.065
714	5.35	34.459	0.34						85.1	700	5.41	34.459	0.31	27.218	85.9	1.163
858	4.75	34.494	0.32						75.9	800	4.97	34.479	0.32	27.286	79.4	1.255
1012	4.07	34.516	0.55						67.2	1000	4.12	34.514	0.52	27.409	67.8	1.420

130040

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

130050

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
26 09.0N	114 07.0W	10/08/75	0821 GMT	25 49.0N	114 45.0W	10/08/75	0259 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
2602M	340	13KT	0	310 5 6	3736M	360	13KT	1	3736M		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	20.77	33.85	23.702	420.3	0.000	0	21.05	33.86	23.635	426.8	0.000
10	20.77	33.85	23.702	420.3	0.042	10	21.05	33.86	23.635	426.8	0.042
20	20.77	33.85	23.702	420.3	0.084	20	21.05	33.86	23.635	426.8	0.084
30	19.43	33.80	24.016	390.4	0.124	30	21.03	33.86	23.640	426.3	0.124
40	16.63	33.74	24.655	329.5	0.160	40	19.43	33.85	24.054	386.8	0.160
50	16.03	33.69	24.754	320.0	0.193	50	18.08	33.84	24.385	355.2	0.206
75	14.35	33.62	25.068	290.1	0.270	75	16.13	33.77	24.793	316.4	0.290
100	12.18	33.61	25.497	249.4	0.338	100	13.71	33.65	25.225	275.3	0.365
125	10.58	33.80	25.936	207.6	0.395	125	12.08	33.70	25.585	241.0	0.430
150	9.90	33.94	26.162	186.1	0.445	150	11.01	33.93	25.961	205.2	0.487
175	9.82	34.05	26.261	176.7	0.492	175	10.38	34.10	26.205	182.1	0.536
200	9.36	34.14	26.408	162.8	0.535	200	10.01	34.25	26.385	165.0	0.580
225	9.04	34.20	26.506	153.5	0.576	225	9.85	34.34	26.482	155.7	0.621
250	8.93	34.29	26.594	145.1	0.614	250	9.52	34.37	26.561	148.3	0.661
275	8.56	34.31	26.668	138.1	0.651	275	9.19	34.40	26.638	140.9	0.698
300	8.15	34.32	26.738	131.4	0.686	300	8.91	34.40	26.683	136.7	0.734
350	7.96	34.40	26.829	122.8	0.752	350	8.43	34.40	26.758	129.5	0.804
400	7.47	34.40	26.901	116.0	0.815	400	7.47	34.36	26.870	119.0	0.869
450	7.06	34.41	26.967	109.8	0.875	450	7.25	34.41	26.940	112.3	0.931
500	6.65	34.42	27.031	103.7	0.932	500	6.65	34.39	27.007	105.9	0.989
550	6.37	34.46	27.099	97.2	0.986	550	6.35	34.42	27.071	99.9	1.044
600	6.02	34.47	27.153	92.1	1.037	600	6.01	34.42	27.114	95.7	1.097
700	5.38	34.47	27.232	84.6	1.134	700	5.45	34.44	27.200	87.7	1.197
800	4.98	34.49	27.295	78.7	1.225	800	4.98	34.48	27.287	79.4	1.290
900	4.57	34.50	27.349	73.5	1.310	900	4.53	34.49	27.346	73.8	1.375
1000	4.08	34.52	27.418	67.0	1.390	1000	4.18	34.51	27.399	68.7	1.456

130060

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7510

133025

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
25 28.0N	115 26.5W	10/07/75	2100 GMT	26 04.5N	112 48.0W	10/06/75	1504 GMT				
BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3832M	340	13KT	2	320 5 12	82M		0KT	1	270 3 6		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	21.21	33.91	23.629	427.3	0.000	0	24.72	34.68	23.205	467.7	0.000
10	21.17	33.91	23.640	426.3	0.042	10	24.71	34.69	23.216	466.7	0.046
20	21.15	33.91	23.645	425.7	0.085	20	20.82	34.37	24.083	383.9	0.089
30	20.28	33.92	23.886	402.8	0.126	30	19.09	34.21	24.415	352.3	0.126
40	19.13	33.92	24.184	374.4	0.165	40	18.05	34.12	24.606	334.1	0.160
50	17.98	33.91	24.463	347.8	0.202	50	16.44	34.04	24.928	303.4	0.197
75	16.13	33.83	24.839	312.0	0.285	75	15.23	34.23	25.347	263.6	0.264
100	14.28	33.70	25.145	282.9	0.360						
125	11.93	33.73	25.637	236.1	0.425						
150	10.95	33.85	25.910	210.1	0.482						
175	10.98	34.18	26.161	186.3	0.532						
200	9.96	34.18	26.339	169.3	0.578						
225	9.82	34.27	26.433	160.5	0.620						
250	9.81	34.38	26.520	152.1	0.660						
275	9.49	34.39	26.581	146.4	0.699						
300	9.22	34.39	26.625	142.1	0.737						
350	8.93	34.49	26.750	130.3	0.808						
400	8.48	34.50	26.829	122.9	0.875						
450	7.94	34.49	26.903	115.8	0.938						
500	7.18	34.42	26.958	110.6	0.999						
550	6.70	34.43	27.032	103.6	1.056						
600	6.32	34.44	27.090	98.0	1.111						
700	5.58	34.44	27.184	89.2	1.213						
800	4.98	34.47	27.279	80.2	1.307						
900	4.51	34.49	27.348	73.6	1.393						
1000	4.16	34.51	27.402	68.6	1.474						

127023 RV ALEXANDER AGASSIZ
LATITUDE LONGITUDE MO/DAY/YR START TIME
25 34.5N 112 19.0W 10/16/75 0520 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
75M 310 7KT 0 310 2 8
Z T S SIGMA T DT DD
0 25.18 34.80 23.156 472.4 0.000
10 25.18 34.80 23.156 472.4 0.047
20 20.43 34.33 24.157 376.9 0.089
30 19.40 34.24 24.358 357.7 0.126
40 18.57 34.19 24.531 341.3 0.161
50 16.97 34.12 24.866 309.4 0.194

CALCOFI CRUISE 7510 137040
LATITUDE LONGITUDE MO/DAY/YR START TIME
25 00.5N 113 21.0W 10/05/75 1850 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
3075M 340 5KT 1 350 3 7
Z T S SIGMA T DT DD
0 24.80 34.68 23.181 470.0 0.000
10 24.28 34.52 23.216 466.7 0.046
20 23.68 34.44 23.333 455.5 0.093
30 18.03 33.96 24.489 345.3 0.133
40 15.68 33.95 25.032 293.5 0.165
50 14.68 33.96 25.260 271.9 0.193
75 13.33 34.11 25.657 234.1 0.257
100 13.43 34.54 25.968 204.5 0.317
125 12.96 34.67 26.164 185.9 0.362
150 12.17 34.71 26.350 168.3 0.407
175 11.91 34.72 26.407 162.8 0.449
200 11.49 34.72 26.486 155.3 0.490
225 11.23 34.73 26.542 150.0 0.530
250 11.03 34.72 26.571 147.3 0.568
275 10.85 34.71 26.596 144.9 0.606
300 10.61 34.69 26.623 142.3 0.644
350 10.14 34.66 26.682 136.8 0.717
400 9.20 34.57 26.749 128.5 0.788
450 8.22 34.51 26.876 118.3 0.853
500 7.36 34.49 26.987 107.8 0.914
550 6.80 34.49 27.065 100.4 0.970
600 6.45 34.50 27.120 95.2 1.023
700 5.63 34.48 27.209 86.8 1.123
800 5.06 34.50 27.293 78.8 1.215
900 4.59 34.50 27.347 73.7 1.301
1000 4.19 34.53 27.414 67.4 1.381

137030 RV ALEXANDER AGASSIZ
LATITUDE LONGITUDE MO/DAY/YR START TIME
25 23.0N 112 44.5W 10/16/75 0111 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
359M 320 11KT 1 350 3 7
Z T S SIGMA T DT DD
0 22.49 33.98 23.327 456.1 0.000
10 22.03 34.04 23.502 439.4 0.044
20 19.51 34.16 24.269 366.2 0.085
30 17.77 34.19 24.728 322.5 0.119
40 16.03 34.09 25.061 290.8 0.150
50 14.89 34.09 25.314 266.7 0.178
75 13.72 34.16 25.616 238.0 0.241
100 13.23 34.35 25.862 214.6 0.299
125 12.25 34.44 26.126 189.6 0.350
150 12.20 34.53 26.205 182.1 0.397
175 12.11 34.62 26.292 173.8 0.443
200 11.89 34.65 26.357 167.6 0.487

CALCOFI CRUISE 7510 137060
LATITUDE LONGITUDE MO/DAY/YR START TIME
24 19.0N 114 45.0W 10/05/75 0615 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
3738M 360 12KT 2 360 2 6
Z T S SIGMA T DT DD
0 21.67 33.86 23.465 442.9 0.000
10 21.67 33.86 23.465 442.9 0.044
20 21.22 33.84 23.573 432.6 0.088
30 20.05 33.77 23.832 407.9 0.130
40 17.40 33.78 24.504 343.9 0.167
50 16.58 33.76 24.682 327.0 0.201
75 14.63 33.67 25.047 292.1 0.279
100 13.31 33.99 25.568 242.6 0.346
125 11.22 33.87 25.877 213.3 0.404
150 10.57 34.04 26.125 189.7 0.455
175 10.58 34.33 26.348 168.4 0.501
200 10.45 34.46 26.472 156.7 0.543
225 10.23 34.51 26.549 149.3 0.582
250 10.08 34.57 26.622 142.4 0.620
275 9.82 34.56 26.659 139.0 0.656
300 9.51 34.55 26.702 134.8 0.692
350 9.02 34.54 26.775 128.0 0.761
400 8.59 34.56 26.858 120.0 0.827
450 7.91 34.54 26.946 111.7 0.889
500 7.29 34.49 26.997 106.9 0.947
550 6.89 34.49 27.053 101.6 1.004
600 6.42 34.49 27.116 95.6 1.057
700 5.71 34.49 27.207 86.9 1.157
800 5.20 34.51 27.285 79.6 1.250
900 4.79 34.52 27.340 74.3 1.336
1000 4.38 34.53 27.394 69.3 1.418

127050 RV ALEXANDER AGASSIZ
LATITUDE LONGITUDE MO/DAY/YR START TIME
24 38.0N 114 10.0W 10/15/75 1232 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
4069M 020 9KT 0 020 3 7
Z T S SIGMA T DT DD
0 22.96 34.09 23.277 460.9 0.000
10 22.96 34.09 23.277 460.9 0.046
20 22.96 34.09 23.277 460.9 0.092
30 18.83 33.95 24.282 364.9 0.133
40 13.53 33.85 25.416 257.1 0.164
50 12.68 33.85 25.586 240.9 0.189
75 11.56 33.92 25.853 215.5 0.247
100 10.95 34.14 26.135 188.7 0.298
125 10.88 34.31 26.279 175.0 0.344
150 10.76 34.47 26.425 161.1 0.387
175 10.44 34.48 26.490 155.0 0.427
200 9.73 34.46 26.596 144.9 0.466
225 9.46 34.45 26.633 141.4 0.503
250 9.25 34.46 26.675 137.4 0.539
275 9.06 34.48 26.721 133.0 0.574
300 9.05 34.50 26.739 131.4 0.608
350 8.21 34.46 26.839 121.9 0.675
400 7.90 34.50 26.917 114.5 0.737
450 7.07 34.45 26.997 106.9 0.796
500 6.60 34.44 27.053 101.6 0.852
550 6.13 34.45 27.123 95.0 0.905
600 5.96 34.47 27.160 91.4 0.955
700 5.59 34.52 27.246 83.3 1.051
800 5.02 34.51 27.306 77.6 1.141
900 4.63 34.52 27.358 72.6 1.225
1000 4.23 34.54 27.418 67.0 1.305

CALCOFI CRUISE 7510 137060
LATITUDE LONGITUDE MO/DAY/YR START TIME
24 19.0N 114 45.0W 10/05/75 0615 GMT
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
3738M 360 12KT 2 360 2 6
Z T S SIGMA T DT DD
0 21.67 33.86 23.465 442.9 0.000
10 21.67 33.86 23.465 442.9 0.044
20 21.22 33.84 23.573 432.6 0.088
30 20.05 33.77 23.832 407.9 0.130
40 17.40 33.78 24.504 343.9 0.167
50 16.58 33.76 24.682 327.0 0.201
75 14.63 33.67 25.047 292.1 0.279
100 13.31 33.99 25.568 242.6 0.346
125 11.22 33.87 25.877 213.3 0.404
150 10.57 34.04 26.125 189.7 0.455
175 10.58 34.33 26.348 168.4 0.501
200 10.45 34.46 26.472 156.7 0.543
225 10.23 34.51 26.549 149.3 0.582
250 10.08 34.57 26.622 142.4 0.620
275 9.82 34.56 26.659 139.0 0.656
300 9.51 34.55 26.702 134.8 0.692
350 9.02 34.54 26.775 128.0 0.761
400 8.59 34.56 26.858 120.0 0.827
450 7.91 34.54 26.946 111.7 0.889
500 7.29 34.49 26.997 106.9 0.947
550 6.89 34.49 27.053 101.6 1.004
600 6.42 34.49 27.116 95.6 1.057
700 5.71 34.49 27.207 86.9 1.157
800 5.20 34.51 27.285 79.6 1.250
900 4.79 34.52 27.340 74.3 1.336
1000 4.38 34.53 27.394 69.3 1.418

RV ALEXANDER AGASSIZ
LATITUDE LONGITUDE MO/DAY/YR MESSENGER TIME
24 19.0N 114 45.0W 10/ 5/75 0704 GMT
Z T S O2 PD4 S103 NO2 NO3 DT
0 21.63 33.858 5.23 442.0
10 21.64 33.857 5.26 442.3
25 20.38 33.767 5.49 416.4
40 17.22 33.810 6.00 337.6
60 15.43 33.691 5.90 307.2
80 14.08 33.694 5.21 279.3
100 13.23 33.811 4.05 254.2
124 11.60 33.914 3.51 216.6
149 10.89 34.034 2.78 195.5
173 10.63 34.270 1.70 173.7
208 10.43 34.447 0.89 157.3
271 9.95 34.552 0.32 141.7
363 8.70 34.514 0.20 125.1
460 7.55 34.497 0.15 109.9
587 6.41 34.478 0.13 96.3
714 5.56 34.472 0.27 86.6
857 4.92 34.508 0.25 76.6
1010 4.29 34.526 0.44 68.7

CALCOFI CRUISE 7510 137060
BOTTOM WIND SPEED WEATHER DOMINANT WAVES
3738M 360 12KT 2 360 2 6
Z T S O2 SIGT DT DD
0 21.63 33.858 5.23 23.475 442.0 0.000
10 21.64 33.857 5.26 23.471 442.3 0.044
20 20.99 33.800 5.38 23.605 429.6 0.087
30 19.33 33.774 5.67 24.019 390.1 0.128
40 16.12 33.740 5.95 24.772 318.3 0.200
75 14.39 33.682 5.43 25.107 286.5 0.276
100 13.23 33.811 4.05 25.466 254.2 0.344
125 11.55 33.918 3.48 25.852 215.6 0.403
150 10.87 34.044 2.73 26.074 194.5 0.455
200 10.46 34.419 1.01 26.437 160.0 0.546
250 10.13 34.538 0.42 26.588 145.7 0.625
300 9.58 34.550 0.28 26.691 135.9 0.698
400 8.23 34.506 0.17 26.870 118.9 0.832
500 7.15 34.490 0.14 27.017 105.0 0.952
600 6.31 34.476 0.14 27.120 95.2 1.060
700 5.64 34.472 0.25 27.202 87.5 1.160
800 5.15 34.492 0.25 27.276 80.4 1.254
1000 4.32 34.525 0.42 27.395 69.1 1.422

					Z	T	10 METER DATA S	DT
60.050	11/14/75	1127GMT	37 57.5N	122 53.0W	10	11.16	33.541	236.5
		BOTTOM	48M	WIND 020				
				DOMINANT WAVES				
60.052	11/14/75	1005GMT	37 52.5N	123 04.0W	10	11.37	33.537	240.4
		BOTTOM	88M	WIND 260				
				DOMINANT WAVES				
60.055	11/14/75	0820GMT	37 47.5N	123 15.0W	10	11.40	33.526	241.8
		BOTTOM	93M	WIND 260				
				DOMINANT WAVES				
60.060	11/14/75	0530GMT	37 37.0N	123 37.0W	10	11.63	33.411	254.2
		BOTTOM	3353M	WIND 210				
				DOMINANT WAVES				
60.065	11/14/75	0250GMT	37 27.0N	124 00.0W	10	12.63	32.782	318.5
		BOTTOM	3730M	WIND 220				
				DOMINANT WAVES				
60.070	11/13/75	2348GMT	37 17.0N	124 21.0W	10	12.12	33.044	290.0
		BOTTOM	4110M	WIND 290				
				DOMINANT WAVES 310 5 11				
63.050	11/13/75	0657GMT	37 23.0N	122 28.0W	10	11.06	33.532	235.5
		BOTTOM	26M	WIND 090				
				DOMINANT WAVES				
63.052	11/13/75	0810GMT	37 19.0N	122 36.0W	10	11.52	33.233	265.5
		BOTTOM	86M	WIND 090				
				DOMINANT WAVES				
63.055	11/13/75	0955GMT	37 12.5N	122 49.5W	10	11.37	33.580	237.2
		BOTTOM	294M	WIND 230				
				DOMINANT WAVES				
63.060	11/13/75	1220GMT	37 03.0N	123 10.0W	10	11.80	33.538	247.9
		BOTTOM	2410M	WIND 310				
				DOMINANT WAVES				
63.065	11/13/75	1538GMT	36 53.0N	123 33.0W	10	13.20	33.403	283.5
		BOTTOM	3540M	WIND 340				
				DOMINANT WAVES 1				
66.049	11/13/75	0247GMT	36 53.0N	122 01.5W	10	11.96	33.538	250.7
		BOTTOM	56M	WIND 320				
				DOMINANT WAVES				
67.050	11/13/75	0155GMT	36 48.0N	122 05.0W	10	13.19	33.578	270.5
		BOTTOM	104M	WIND 320				
				DOMINANT WAVES				
67.055	11/12/75	2250GMT	36 39.0N	122 26.0W	10	13.82	33.577	282.8
		BOTTOM	2316M	WIND 050				
				DOMINANT WAVES				
67.065	11/12/75	1626GMT	36 18.0N	123 09.0W	10	13.37	33.586	273.4
		BOTTOM	3353M	WIND 350				
				DOMINANT WAVES 340 4 6				
67.070	11/12/75	1335GMT	36 08.0N	123 29.0W	10	13.91	33.593	283.4
		BOTTOM	3540M	WIND 360				
				DOMINANT WAVES				
70.051	11/11/75	2028GMT	36 11.5N	121 44.0W	10	10.52	33.677	215.7
		BOTTOM	223M	WIND 100				
				DOMINANT WAVES				
70.053	11/11/75	2237GMT	36 06.5N	121 54.0W	10	10.94	33.628	226.3
		BOTTOM	1092M	WIND 330				
				DOMINANT WAVES 270 6 7				
70.060	11/12/75	0200GMT	35 53.0N	122 22.5W	10	11.66	33.572	242.9
		BOTTOM	3258M	WIND 340				
				DOMINANT WAVES				
70.065	11/12/75	0515GMT	35 43.0N	122 45.0W	10	14.06	33.526	291.2
		BOTTOM	1479M	WIND 340				
				DOMINANT WAVES				
70.070	11/12/75	0800GMT	35 33.0N	123 06.0W	10	13.78	33.518	286.3
		BOTTOM	3730M	WIND 350				
				DOMINANT WAVES				
70.090	11/08/75	0543GMT	34 53.0N	124 30.0W	10	15.00	33.479	313.7
		BOTTOM	4308M	WIND 330				
				DOMINANT WAVES				
73.050	11/07/75	0224GMT	35 37.0N	121 17.0W	10	12.12	33.484	257.6
		BOTTOM	104M	WIND 310				
				DOMINANT WAVES				
73.053	11/07/75	0421GMT	35 31.5N	121 28.5W	10	12.32	33.492	260.6
		BOTTOM	774M	WIND 330				
				DOMINANT WAVES				
73.065	11/07/75	1135GMT	35 08.0N	122 18.0W	10	13.68	33.469	287.9
		BOTTOM	3918M	WIND 320				
				DOMINANT WAVES				
73.070	11/07/75	1412GMT	34 58.0N	122 41.0W	10	13.90	33.441	294.3
		BOTTOM	4110M	WIND 330				
				DOMINANT WAVES 330 12 10				

						Z	T	10 METER S	DATA 02	DT
73.080	11/07/75	1914GMT	34 39.0N	123 22.0W	BOTTOM 4116M WIND 330 1KT WEATHER 2 DOMINANT WAVES 330 9 11	10	14.90	33.244		328.9
73.090	11/08/75	0010GMT	34 18.5N	124 03.0W	BOTTOM 3169M WIND 340 14KT WEATHER 4 DOMINANT WAVES	10	14.33	32.938		339.7
77.048	11/06/75	2146GMT	35 08.0N	120 43.5W	BOTTOM 30M WIND 340 1KT WEATHER 0 DOMINANT WAVES	10	12.16	33.492		257.7
77.051	11/06/75	1950GMT	35 02.0N	120 56.5W	BOTTOM 316M WIND 320 20KT WEATHER 0 DOMINANT WAVES	10	12.16	33.494		257.6
77.055	11/06/75	1715GMT	34 54.0N	121 13.0W	BOTTOM 574M WIND 330 22KT WEATHER 0 DOMINANT WAVES	10	13.57	33.453		287.0
77.060	11/06/75	1400GMT	34 43.5N	121 34.0W	BOTTOM 925M WIND 340 21KT WEATHER DOMINANT WAVES	10	13.78	33.473		289.6
77.065	11/06/75	1048GMT	34 34.0N	121 55.0W	BOTTOM 3824M WIND 340 20KT WEATHER DOMINANT WAVES	10	14.86	33.485		310.4
77.070	11/06/75	0802GMT	34 24.0N	122 16.0W	BOTTOM 4110M WIND 310 14KT WEATHER DOMINANT WAVES	10	14.62	33.440		308.8
77.090	11/05/75	2110GMT	33 44.0N	123 38.0W	BOTTOM 3737M WIND 260 10KT WEATHER 2 DOMINANT WAVES	10	15.61	32.815		375.0
80.050 ¹	11/04/75	1540GMT	34 28.0N	120 29.0W	BOTTOM 19M WIND 080 7KT WEATHER 4 DOMINANT WAVES	10	12.68	33.567		261.7
80.051	11/04/75	1635GMT	34 26.0N	120 32.5W	BOTTOM 97M WIND 310 10KT WEATHER 4 DOMINANT WAVES	10	12.88	33.553		266.5
80.052	11/04/75	1730GMT	34 25.0N	120 36.0W	BOTTOM 260M WIND 310 20KT WEATHER 4 DOMINANT WAVES	10	12.93	33.541		268.3
80.053	11/04/75	1846GMT	34 22.5N	120 40.0W	BOTTOM 501M WIND 320 20KT WEATHER 4 DOMINANT WAVES 270 6 10	10	13.02	33.525		271.2
80.054	11/04/75	1958GMT	34 21.0N	120 44.5W	BOTTOM 648M WIND 340 18KT WEATHER 2 DOMINANT WAVES	10	12.94	33.471		273.6
80.055	11/04/75	2124GMT	34 19.0N	120 48.0W	BOTTOM 778M WIND 340 20KT WEATHER 2 DOMINANT WAVES	10	13.80	33.417		294.1
80.070	11/05/75	0600GMT	33 48.5N	121 51.0W	BOTTOM 3737M WIND 350 13KT WEATHER DOMINANT WAVES	10	14.38	33.436		304.2
80.080	11/05/75	1054GMT	33 28.0N	122 31.5W	BOTTOM 3926M WIND 320 11KT WEATHER DOMINANT WAVES	10	14.94	33.293		326.1
80.090	11/05/75	1602GMT	33 09.0N	123 13.0W	BOTTOM 4212M WIND 340 5KT WEATHER 2 DOMINANT WAVES	10	15.02	33.010		348.5
81.043 ⁵	10/26/75	0823GMT	34 24.0N	119 48.0W	BOTTOM 34M WIND 280 2KT WEATHER 0 DOMINANT WAVES	10	15.00	33.611		304.0
81.044 ⁵	10/26/75	0933GMT	34 23.0N	119 50.0W	BOTTOM 60M WIND 080 4KT WEATHER 0 DOMINANT WAVES	10	14.76	33.601		299.8
81.044 ⁵	10/26/75	1043GMT	34 22.0N	119 52.0W	BOTTOM 78M WIND 280 4KT WEATHER 0 DOMINANT WAVES	10	15.48	33.629		312.8
81.045 ⁵	10/26/75	1200GMT	34 21.0N	119 54.0W	BOTTOM 271M WIND 210 2KT WEATHER 0 DOMINANT WAVES	10	15.64	33.630		316.1
81.046 ⁵	10/26/75	1350GMT	34 19.0N	119 58.0W	BOTTOM 537M WIND 270 4KT WEATHER 0 DOMINANT WAVES	10	15.80	33.636		319.0
81.047 ⁵	10/26/75	1550GMT	34 17.0N	120 02.5W	BOTTOM 584M WIND 290 20KT WEATHER 0 DOMINANT WAVES	10	14.92	33.599		303.3
83.039 ⁴	10/25/75	1935GMT	34 14.5N	119 19.5W	BOTTOM 19M WIND 280 11KT WEATHER 0 DOMINANT WAVES	10	15.35	33.641		309.1
83.040 ⁶	10/25/75	2105GMT	34 12.5N	119 24.5W	BOTTOM 48M WIND 280 17KT WEATHER 0 DOMINANT WAVES	10	14.92	33.590		303.9

				10 METER DATA		DT		
Z	T	S	N2					
83.041	10/25/75	2205GMT	34 11.5N	119 26.0W	10	15.45	33.605	313.9
	BOTTOM 69M WIND 270 10KT WEATHER 0							
	DOMINANT WAVES							
83.042	10/25/75	2330GMT	34 09.5N	119 30.0W	10	15.04	33.571	307.8
	BOTTOM 211M WIND 270 13KT WEATHER 0							
	DOMINANT WAVES							
83.043	10/26/75	0105GMT	34 08.0N	119 34.0W	10	15.55	33.617	315.1
	BOTTOM 242M WIND 260 14KT WEATHER 0							
	DOMINANT WAVES							
83.044	10/26/75	0305GMT	34 05.5N	119 38.0W	10	15.08	33.558	309.6
	BOTTOM 177M WIND 270 23KT WEATHER 0							
	DOMINANT WAVES							
83.044 ⁷	10/26/75	0420GMT	34 04.0N	119 41.0W	10	14.99	33.560	307.6
	BOTTOM 90M WIND 260 22KT WEATHER 0							
	DOMINANT WAVES							
83.045	10/26/75	0530GMT	34 03.5N	119 42.5W	10	14.80	33.543	304.9
	BOTTOM 84M WIND 270 21KT WEATHER 0							
	DOMINANT WAVES							
83.048	10/26/75	1912GMT	33 58.0N	119 55.0W	10	15.14	33.612	306.9
	BOTTOM 190M WIND 330 14KT WEATHER 0							
	DOMINANT WAVES							
83.049	10/26/75	2010GMT	33 55.5N	119 59.0W	10	13.67	33.573	280.1
	BOTTOM 26M WIND 330 31KT WEATHER 0							
	DOMINANT WAVES							
83.050	10/26/75	2055GMT	33 54.0N	120 03.5W	10	14.64	33.564	300.1
	BOTTOM 26M WIND 320 19KT WEATHER 0							
	DOMINANT WAVES							
83.051	10/26/75	2155GMT	33 52.0N	120 08.5W	10	14.75	33.582	301.0
	BOTTOM 187M WIND 310 14KT WEATHER 0							
	DOMINANT WAVES							
83.055	10/26/75	2355GMT	33 44.0N	120 24.5W	10	14.45	33.543	297.8
	BOTTOM 888M WIND 310 13KT WEATHER 2							
	DOMINANT WAVES							
83.070	10/27/75	1015GMT	33 14.5N	121 25.0W	10	14.28	33.357	308.0
	BOTTOM 3545M WIND 330 14KT WEATHER 0							
	DOMINANT WAVES							
83.080	10/27/75	1750GMT	32 54.0N	122 08.0W	10	16.05	33.328	346.9
	BOTTOM 3737M WIND 340 14KT WEATHER 1							
	DOMINANT WAVES							
83.090	10/27/75	2040GMT	32 34.0N	122 47.0W	10	16.87	33.396	359.9
	BOTTOM 3737M WIND 360 14KT WEATHER 1							
	DOMINANT WAVES							
85.037 ²	10/25/75	1050GMT	34 02.5N	118 59.0W	10	15.14	33.595	308.1
	BOTTOM 39M WIND 030 14KT WEATHER 0							
	DOMINANT WAVES							
85.037 ⁵	10/25/75	1158GMT	34 02.0N	118 59.5W	10	15.44	33.606	313.6
	BOTTOM 67M WIND 030 4KT WEATHER 0							
	DOMINANT WAVES							
85.038	10/25/75	1310GMT	34 01.0N	119 02.5W	10	15.80	33.620	320.2
	BOTTOM 229M WIND 030 10KT WEATHER 0							
	DOMINANT WAVES							
85.039	10/25/75	1455GMT	33 59.0N	119 06.5W	10	17.22	33.726	343.7
	BOTTOM 713M WIND 360 14KT WEATHER 0							
	DOMINANT WAVES							
85.040	10/25/75	1640GMT	33 57.0N	119 10.5W	10	17.13	33.718	342.3
	BOTTOM 741M WIND 340 14KT WEATHER 0							
	DOMINANT WAVES							
87.032 ⁵	10/24/75	2335GMT	33 53.5N	118 26.5W	10	14.14	33.493	295.2
	BOTTOM 21M WIND 270 4KT WEATHER 0							
	DOMINANT WAVES							
87.032 ⁷	10/25/75	0035GMT	33 54.5N	118 28.0W	10	14.56	33.502	303.0
	BOTTOM 28M WIND 280 12KT WEATHER 0							
	DOMINANT WAVES							
87.033	10/25/75	0145GMT	33 54.0N	118 29.0W	10	14.48	33.500	301.5
	BOTTOM 50M WIND 270 14KT WEATHER 0							
	DOMINANT WAVES							
87.034	10/25/75	0305GMT	33 52.0N	118 33.0W	10	15.36	33.549	316.1
	BOTTOM 71M WIND 270 12KT WEATHER 0							
	DOMINANT WAVES							
87.035	10/25/75	0600GMT	33 50.0N	118 37.5W	10	16.60	33.632	336.7
	BOTTOM 482M WIND 330 11KT WEATHER 0							
	DOMINANT WAVES							
87.036	10/25/75	0735GMT	33 49.0N	118 40.0W	10	17.12	33.687	344.3
	BOTTOM 433M WIND 360 14KT WEATHER 0							
	DOMINANT WAVES							
87.040	10/29/75	0832GMT	33 40.0N	118 58.0W	10	17.08	33.663	345.2
	BOTTOM 888M WIND 310 11KT WEATHER 0							
	DOMINANT WAVES							

					Z	T	10 METER DATA	DT
							S	N2
87.045	10/29/75	0445GMT	33 29.0N	119 19.0W	10	16.26	33.659	327.3
	BOTTOM	1664M	WIND 290	7KT WEATHER 0				
				DOMINANT WAVES				
87.050	10/29/75	0048GMT	33 20.0N	119 39.5W	10	15.04	33.599	305.7
	BOTTOM	84M	WIND 290	4KT WEATHER 0				
				DOMINANT WAVES				
87.055	10/28/75	2215GMT	33 10.0N	120 00.0W	10	14.90	33.585	303.9
	BOTTOM	1165M	WIND 350	4KT WEATHER 1				
				DOMINANT WAVES				
87.060	10/28/75	1905GMT	33 00.0N	120 21.5W	10	14.22	33.623	287.3
	BOTTOM	780M	WIND 330	10KT WEATHER 1				
				DOMINANT WAVES				
87.070	10/28/75	1325GMT	32 39.0N	121 02.5W	10	13.99	33.481	293.1
	BOTTOM	3926M	WIND 330	22KT WEATHER				
				DOMINANT WAVES				
87.090	10/28/75	0155GMT	32 00.0N	122 24.0W	10	16.92	33.339	365.2
	BOTTOM	3926M	WIND 360	17KT WEATHER 1				
				DOMINANT WAVES				
5 4 88.030	10/24/75	1633GMT	33 41.5N	118 07.0W	10	16.00	33.549	329.7
	BOTTOM	17M	WIND 040	14KT WEATHER 1				
				DOMINANT WAVES				
5 88.031	10/24/75	1535GMT	33 40.5N	118 09.5W	10	16.10	33.587	329.1
	BOTTOM	24M	WIND 040	10KT WEATHER 1				
				DOMINANT WAVES				
5 88.032	10/24/75	1423GMT	33 38.5N	118 13.5W	10	16.04	33.589	327.6
	BOTTOM	37M	WIND 020	12KT WEATHER 1				
				DOMINANT WAVES				
5 88.033	10/24/75	1250GMT	33 36.5N	118 17.5W	10	17.26	33.663	349.2
	BOTTOM	290M	WIND 040	10KT WEATHER 0				
				DOMINANT WAVES				
5 88.034	10/24/75	1045GMT	33 34.5N	118 22.0W	10	17.43	33.669	352.6
	BOTTOM	888M	WIND 080	10KT WEATHER 0				
				DOMINANT WAVES				
6 90.027	10/24/75	0639GMT	33 29.5N	117 45.5W	10	16.86	33.602	344.7
	BOTTOM	43M	WIND 100	10KT WEATHER 0				
				DOMINANT WAVES				
90.028	10/24/75	0545GMT	33 28.5N	117 46.5W	10	17.11	33.604	350.1
	BOTTOM	223M	WIND 150	7KT WEATHER 0				
				DOMINANT WAVES				
90.029	10/24/75	0424GMT	33 27.0N	117 49.5W	10	18.12	33.694	366.7
	BOTTOM	630M	WIND 350	12KT WEATHER 0				
				DOMINANT WAVES				
90.030	10/24/75	0239GMT	33 25.0N	117 53.5W	10	18.24	33.698	369.3
	BOTTOM	639M	WIND 300	10KT WEATHER 0				
				DOMINANT WAVES				
90.031	10/24/75	0055GMT	33 23.0N	117 57.5W	10	18.32	33.703	370.8
	BOTTOM	427M	WIND 300	22KT WEATHER 0				
				DOMINANT WAVES				
90.032	10/23/75	2310GMT	33 21.0N	118 01.5W	10	18.32	33.709	370.4
	BOTTOM	741M	WIND 300	21KT WEATHER 0				
				DOMINANT WAVES				
90.037	10/23/75	1959GMT	33 11.0N	118 22.5W	10	18.11	33.688	366.9
	BOTTOM	1165M	WIND 310	17KT WEATHER 0				
				DOMINANT WAVES				
90.045	11/03/75	0528GMT	32 54.5N	118 55.5W	10	15.32	33.611	310.7
	BOTTOM	1756M	WIND 330	9KT WEATHER				
				DOMINANT WAVES				
90.053	11/03/75	0106GMT	32 39.0N	119 28.5W	10	15.67	33.509	325.6
	BOTTOM	1295M	WIND 320	11KT WEATHER 2				
				DOMINANT WAVES				
90.060	11/02/75	2105GMT	32 24.5N	119 57.0W	10	16.40	33.614	333.6
	BOTTOM	947M	WIND 320	9KT WEATHER 2				
				DOMINANT WAVES				
90.070	11/02/75	1550GMT	32 04.5N	120 38.0W	10	13.99	33.447	295.6
	BOTTOM	3926M	WIND 340	10KT WEATHER 2				
				DOMINANT WAVES				
90.090	11/02/75	0430GMT	31 24.0N	122 01.0W	10	16.98	33.453	358.2
	BOTTOM	3737M	WIND 340	15KT WEATHER 1				
				DOMINANT WAVES				
5 91.026	10/22/75	0210GMT	33 14.5N	117 27.5W	10	16.72	33.568	344.0
	BOTTOM	21M	WIND 270	4KT WEATHER 2				
				DOMINANT WAVES				
5 91.026	10/22/75	0325GMT	33 14.0N	117 29.0W	10	17.90	33.644	365.3
	BOTTOM	62M	WIND 280	4KT WEATHER 2				
				DOMINANT WAVES				
5 91.028	10/22/75	0455GMT	33 11.5N	117 34.0W	10	18.58	33.687	378.1
	BOTTOM	741M	WIND 180	4KT WEATHER 2				
				DOMINANT WAVES				

				10 METER DATA						
		Z	T	S	N2	DT				
5	91.029	10/22/75	0643GMT	33 09.5N	117 38.0W	10	18.52	33.681	377.1	
			BOTTOM	741M	WIND 250	4KT	WEATHER 2			
			DOMINANT WAVES							
5	91.030	10/22/75	0819GMT	33 07.5N	117 42.0W	10	18.35	33.670	373.9	
			BOTTOM	824M	WIND 190	4KT	WEATHER 2			
			DOMINANT WAVES							
7	93.026	10/21/75	1859GMT	32 57.0N	117 17.5W	10	17.23	33.599	353.2	
			BOTTOM	41M	WIND 340	7KT	WEATHER 2			
			DOMINANT WAVES							
9	93.026	10/21/75	1749GMT	32 57.0N	117 18.5W	10	17.74	33.631	362.5	
			BOTTOM	84M	WIND 360	4KT	WEATHER 2			
			DOMINANT WAVES							
	93.028	10/21/75	1621GMT	32 54.5N	117 22.0W	10	18.22	33.657	371.8	
			BOTTOM	611M	WIND 020	7KT	WEATHER 2			
			DOMINANT WAVES							
	93.029	10/21/75	1442GMT	32 52.5N	117 26.5W	10	18.30	33.669	372.8	
			BOTTOM	925M	WIND 040	5KT	WEATHER 2			
			DOMINANT WAVES							
	93.030	10/21/75	1225GMT	32 50.5N	117 31.0W	10	18.06	33.647	368.8	
			BOTTOM	870M	WIND 350	4KT	WEATHER 2			
			DOMINANT WAVES							
	93.035	10/22/75	1155GMT	32 40.5N	117 52.0W	10	18.42	33.671	375.5	
			BOTTOM	648M	WIND 270	4KT	WEATHER 2			
			DOMINANT WAVES							
	93.040	10/22/75	1525GMT	32 30.0N	118 11.5W	10	18.56	33.703	376.5	
			BOTTOM	1756M	WIND 330	4KT	WEATHER 2			
			DOMINANT WAVES							
	93.045	10/22/75	1810GMT	32 20.0N	118 32.0W	10	17.02	33.631	346.1	
			BOTTOM	925M	WIND 290	11KT	WEATHER 2			
			DOMINANT WAVES							
	93.050	10/22/75	2118GMT	32 10.0N	118 52.5W	10	17.61	33.628	359.7	
			BOTTOM	1368M	WIND 310	24KT	WEATHER 2			
			DOMINANT WAVES							
	93.055	10/23/75	0128GMT	32 00.0N	119 13.5W	10	17.54	33.646	356.8	
			BOTTOM	1485M	WIND 320	36KT	WEATHER 2			
			DOMINANT WAVES							
	93.070	11/01/75	1250GMT	31 30.0N	120 14.0W	10	16.64	33.688	333.5	
			BOTTOM	3926M	WIND 320	14KT	WEATHER 1			
			DOMINANT WAVES							
	93.080	11/01/75	1810GMT	31 10.0N	120 54.0W	10	16.68	33.430	353.2	
			BOTTOM	3737M	WIND 310	13KT	WEATHER 1			
			DOMINANT WAVES							
	93.090	11/01/75	2310GMT	30 50.5N	121 34.5W	10	15.76	33.399	335.5	
			BOTTOM	4116M	WIND 330	14KT	WEATHER 1			
			DOMINANT WAVES 330 6 10							
	95.028	10/20/75	2240GMT	32 37.0N	117 10.5W	10	16.32	33.561	335.8	
			BOTTOM	19M	WIND 230	7KT	WEATHER 0			
			DOMINANT WAVES							
	95.029	10/21/75	0130GMT	32 35.0N	117 14.5W	10	16.04	33.536	331.5	
			BOTTOM	45M	WIND 270	4KT	WEATHER 1			
			DOMINANT WAVES							
	95.030	10/21/75	0316GMT	32 33.0N	117 18.5W	10	17.16	33.612	350.7	
			BOTTOM	140M	WIND 340	4KT	WEATHER 1			
			DOMINANT WAVES							
	95.031	10/21/75	0458GMT	32 31.0N	117 22.5W	10	17.92	33.658	364.7	
			BOTTOM	925M	WIND 020	4KT	WEATHER 1			
			DOMINANT WAVES							
	95.032	10/21/75	0634GMT	32 29.0N	117 27.0W	10	18.02	33.663	366.7	
			BOTTOM	925M	WIND 060	4KT	WEATHER 1			
			DOMINANT WAVES							
RV ALEXANDER AGASSIZ										
8	97.028	10/27/75	1214GMT	32 18.0N	117 04.0W	10	14.00	33.486	293.0	
			BOTTOM	37M	WIND 180	7KT	WEATHER 2			
			DOMINANT WAVES 300 2 5							
	97.029	10/27/75	1140GMT	32 17.5N	117 05.0W	10	13.44	33.478	282.6	
			BOTTOM	48M	WIND 190	2KT	WEATHER 2			
			DOMINANT WAVES 300 2 5							
	97.030	10/27/75	1107GMT	32 16.0N	117 07.0W	10	15.95	33.584	326.1	
			BOTTOM	56M	WIND 120	7KT	WEATHER			
			DOMINANT WAVES 270 2 5							
	97.031	10/27/75	0954GMT	32 12.0N	117 13.0W	10	17.34	33.705	348.0	
			BOTTOM	1479M	WIND 090	4KT	WEATHER			
			DOMINANT WAVES 270 2 5							
	97.032	10/27/75	0854GMT	32 12.0N	117 15.0W	10	17.42	33.720	348.7	
			BOTTOM	1387M	WIND 010	4KT	WEATHER			
			DOMINANT WAVES 270 2 5							
	97.035	10/27/75	0600GMT	32 06.0N	117 27.5W	10	17.36	33.745	345.5	
			BOTTOM	1295M	WIND 330	11KT	WEATHER 0			
			DOMINANT WAVES 330 2 4							

					Z	T	10 METER S	DATA 02	DT
97.045	10/26/75	2220GMT	31 46.5N	118 09.0W	10	17.76	33.769		352.9
	BOTTOM	1943M	WIND 310 21KT	WEATHER 1					
	DOMINANT	WAVES 310 6 8							
97.050	10/26/75	1903GMT	31 36.0N	118 30.5W	10	16.46	33.649		332.4
	BOTTOM	2322M	WIND 320 17KT	WEATHER 1					
	DOMINANT	WAVES 330 6 8							
97.055	10/26/75	1555GMT	31 26.0N	118 50.0W	10	17.34	33.635		353.1
	BOTTOM	892M	WIND 330 21KT	WEATHER 1					
	DOMINANT	WAVES 330 6 6							
97.060	10/26/75	1206GMT	31 16.0N	119 10.0W	10	16.95	33.621		345.3
	BOTTOM	3738M	WIND 320 15KT	WEATHER 1					
	DOMINANT	WAVES 320 6 7							
97.070	10/26/75	0623GMT	30 55.0N	119 51.0W	10	17.47	33.821		342.5
	BOTTOM	3738M	WIND 330 14KT	WEATHER 0					
	DOMINANT	WAVES 320 6 6							
97.080	10/26/75	0047GMT	30 34.0N	120 33.0W	10	17.60	33.794		347.4
	BOTTOM	4117M	WIND 340 15KT	WEATHER 0					
	DOMINANT	WAVES 340 4 5							
100.029	10/23/75	2211GMT	31 42.0N	116 43.5W	10	14.58	33.514		302.5
	BOTTOM	112M	WIND 320 14KT	WEATHER 1					
	DOMINANT	WAVES 280 8 8							
100.030	10/23/75	2310GMT	31 40.5N	116 46.5W	10	15.64	33.564		320.9
	BOTTOM	408M	WIND 320 10KT	WEATHER 1					
	DOMINANT	WAVES 280 8 9							
100.031	10/24/75	0036GMT	31 38.5N	116 50.5W	10	18.82	33.731		380.6
	BOTTOM	112M	WIND 020 17KT	WEATHER 1					
	DOMINANT	WAVES 290 6 10							
100.032	10/24/75	0126GMT	31 36.5N	116 55.0W	10	18.45	33.802		366.6
	BOTTOM	1202M	WIND 330 15KT	WEATHER 0					
	DOMINANT	WAVES 300 6 7							
100.035	10/24/75	0339GMT	31 30.5N	117 07.0W	10	17.34	33.676		350.1
	BOTTOM	1165M	WIND 330 14KT	WEATHER 0					
	DOMINANT	WAVES 300 6 7							
100.050	10/24/75	1308GMT	30 59.0N	118 05.0W	10	17.34	33.581		357.0
	BOTTOM	1707M	WIND 340 12KT	WEATHER 0					
	DOMINANT	WAVES 300 7 7							
100.060	10/24/75	1911GMT	30 39.0N	118 47.5W	10	17.58	33.514		367.4
	BOTTOM	3358M	WIND 360 9KT	WEATHER 0					
	DOMINANT	WAVES 340 9 9							
100.070	10/25/75	0037GMT	30 20.5N	119 27.5W	10	16.84	33.675		338.9
	BOTTOM	3832M	WIND 360 12KT	WEATHER 0					
	DOMINANT	WAVES 320 8 8							
100.080	10/25/75	0625GMT	30 01.5N	120 06.0W	10	16.73	33.590		342.7
	BOTTOM	3642M	WIND 040 15KT	WEATHER 0					
	DOMINANT	WAVES 320 6 7							
100.090	10/25/75	1325GMT	29 42.0N	120 43.5W	10	18.22	33.742		365.6
	BOTTOM	3832M	WIND 360 16KT	WEATHER 0					
	DOMINANT	WAVES 340 4 8							
103.028 ⁸	10/23/75	0130GMT	31 07.5N	116 20.0W	10	15.63	33.544		322.2
	BOTTOM	19M	WIND 310 7KT	WEATHER 2					
	DOMINANT	WAVES 290 5 8							
103.029	10/23/75	0101GMT	31 07.0N	116 21.5W	10	16.14	33.557		332.1
	BOTTOM	32M	WIND 290 8KT	WEATHER 2					
	DOMINANT	WAVES 270 4 6							
103.030	10/23/75	0014GMT	31 06.0N	116 24.0W	10	17.46	33.691		351.7
	BOTTOM	63M	WIND 310 8KT	WEATHER 2					
	DOMINANT	WAVES 300 5 6							
103.031	10/22/75	2314GMT	31 03.5N	116 29.5W	10	18.26	33.738		366.8
	BOTTOM	104M	WIND 330 9KT	WEATHER 2					
	DOMINANT	WAVES 300 4 5							
103.032	10/22/75	2219GMT	31 02.0N	116 32.5W	10	18.43	33.714		372.6
	BOTTOM	427M	WIND 330 11KT	WEATHER 2					
	DOMINANT	WAVES 300 4 5							
103.035	10/22/75	2002GMT	30 56.5N	116 45.0W	10	18.46	33.4330		
	BOTTOM	1849M	WIND 310 14KT	WEATHER 2					
	DOMINANT	WAVES 300 4 5							
103.045	10/22/75	0851GMT	30 36.0N	117 24.0W	10	18.34	33.726		369.6
	BOTTOM	2098M	WIND 330 15KT	WEATHER 2					
	DOMINANT	WAVES 320							
103.050	10/22/75	0550GMT	30 26.5N	117 43.0W	10	17.90	33.556		371.7
	BOTTOM	2791M	WIND 300 11KT	WEATHER 2					
	DOMINANT	WAVES 340 9 10							
103.060	10/21/75	2235GMT	30 06.5N	118 24.5W	10	18.34	33.544		382.8
	BOTTOM	3452M	WIND 350 10KT	WEATHER 2					
	DOMINANT	WAVES 340 9 10							
103.070	10/21/75	1725GMT	29 48.0N	119 04.0W	10	18.07	33.591		373.1
	BOTTOM	3738M	WIND 320 8KT	WEATHER 2					
	DOMINANT	WAVES 330 7 7							

	Z	T	10 METER DATA		DT
			S	P2	
103.080	10/21/75	1152GMT	29 26.5M	119 44.0W	
		BOTTOM	3795M	WIND 330 7KT	WEATHER 1
		DOMINANT WAVES	330 3 8		
107.030 ³	10/19/75	0518GMT	30 29.0M	116 04.0W	
		BOTTOM	21M	WIND 220 3KT	WEATHER 2
		DOMINANT WAVES			
107.030 ⁶	10/19/75	0547GMT	30 28.5M	116 05.5W	
		BOTTOM	30M	WIND 160 2KT	WEATHER 2
		DOMINANT WAVES			
107.031	10/19/75	0617GMT	30 27.5M	116 07.0W	
		BOTTOM	47M	WIND 030 7KT	WEATHER 2
		DOMINANT WAVES			
107.032	10/19/75	0724GMT	32 25.5M	116 11.0W	
		BOTTOM	437M	WIND 110 4KT	WEATHER 2
		DOMINANT WAVES			
107.033	10/19/75	0839GMT	30 24.0M	116 15.0W	
		BOTTOM	1252M	WIND 080 7KT	WEATHER 2
		DOMINANT WAVES			
107.034	10/19/75	0938GMT	30 21.5M	116 19.0W	
		BOTTOM	1782M	WIND 090 4KT	WEATHER 2
		DOMINANT WAVES			
107.035	10/19/75	1112GMT	30 21.0M	116 22.5W	
		BOTTOM	1856M	WIND 140 4KT	WEATHER 2
		DOMINANT WAVES			
107.040	10/19/75	1456GMT	30 11.0M	116 42.0W	
		BOTTOM	2697M	WIND 300 4KT	WEATHER 2
		DOMINANT WAVES	300 5 5		
107.060	10/20/75	0715GMT	29 31.0M	118 02.0W	
		BOTTOM	3738M	WIND 330 11KT	WEATHER 1
		DOMINANT WAVES			
107.070	10/20/75	1308GMT	29 11.0M	118 41.0W	
		BOTTOM	2981M	WIND 280 11KT	WEATHER 2
		DOMINANT WAVES	320 8 9		
107.080	10/20/75	1837GMT	28 52.5M	119 19.0W	
		BOTTOM	3738M	WIND 310 11KT	WEATHER 2
		DOMINANT WAVES	310 7 7		
107.090	10/20/75	2358GMT	28 32.0M	119 58.5W	
		BOTTOM	4117M	WIND 340 13KT	WEATHER 2
		DOMINANT WAVES	320 6 7		
110.031 ⁷	10/19/75	0022GMT	29 52.5M	115 47.5W	
		BOTTOM	21M	WIND 330 13KT	WEATHER 0
		DOMINANT WAVES	320 2 5		
110.032 ⁴	10/18/75	2349GMT	29 51.5M	115 49.0W	
		BOTTOM	32M	WIND 330 11KT	WEATHER 0
		DOMINANT WAVES	340 4 8		
110.033	10/18/75	2307GMT	29 50.0M	115 52.0W	
		BOTTOM	84M	WIND 340 11KT	WEATHER 1
		DOMINANT WAVES	340 5 7		
110.034	10/18/75	2205GMT	29 49.0M	115 55.5W	
		BOTTOM	554M	WIND 330 12KT	WEATHER 1
		DOMINANT WAVES	340 5 6		
110.035	10/18/75	2040GMT	29 46.0M	116 00.0W	
		BOTTOM	1485M	WIND 330 4KT	WEATHER 1
		DOMINANT WAVES	340 5 6		
110.040	10/18/75	1623GMT	29 36.5M	116 19.5W	
		BOTTOM	2509M	WIND 340 12KT	WEATHER 2
		DOMINANT WAVES	320 4 10		
110.045	10/18/75	1240GMT	29 26.5M	116 39.5W	
		BOTTOM	1949M	WIND 350 14KT	WEATHER 1
		DOMINANT WAVES	320 4 8		
110.050	10/18/75	0925GMT	29 16.5M	116 59.5W	
		BOTTOM	3738M	WIND 350 14KT	WEATHER 1
		DOMINANT WAVES	330 5 8		
110.055	10/18/75	0603GMT	29 06.0M	117 20.0W	
		BOTTOM	3546M	WIND 030 11KT	WEATHER 1
		DOMINANT WAVES	330 5 8		
110.060	10/18/75	0244GMT	28 57.0M	117 38.0W	
		BOTTOM	3546M	WIND 360 13KT	WEATHER 1
		DOMINANT WAVES	330 5 9		
110.080	10/17/75	1431GMT	28 15.0M	118 59.5W	
		BOTTOM	3889M	WIND 340 13KT	WEATHER 1
		DOMINANT WAVES	330 4 8		
113.028 ⁸	10/16/75	0140GMT	29 25.0M	115 12.5W	
		BOTTOM	26M	WIND 220 1KT	WEATHER 0
		DOMINANT WAVES	320 3 7		
113.029	10/16/75	0210GMT	29 24.5M	115 13.5W	
		BOTTOM	30M	WIND 300 7KT	WEATHER 0
		DOMINANT WAVES	320 3 7		

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113.030	10/16/75	0303GMT	29 22.0N	115 18.0W	10	15.20	33.510		315.6
		BOTTOM	62M	WIND 310 12KT					
		DOMINANT WAVES		WEATHER 0					
113.031	10/16/75	0350GMT	29 20.0N	115 22.0W	10	15.36	33.522		318.0
		BOTTOM	84M	WIND 320 12KT					
		DOMINANT WAVES	320 2 8	WEATHER 0					
113.032	10/16/75	0433GMT	29 19.0N	115 25.5W	10	14.87	33.517		308.2
		BOTTOM	106M	WIND 320 12KT					
		DOMINANT WAVES	320 3 8	WEATHER 0					
113.035	10/16/75	0636GMT	29 11.5N	115 38.0W	10	15.69	33.557		322.5
		BOTTOM	1252M	WIND 340 14KT					
		DOMINANT WAVES	320 2 6	WEATHER 0					
113.040	10/16/75	1023GMT	29 02.0N	115 57.5W	10	15.54	33.547		320.0
		BOTTOM	1949M	WIND 020 14KT					
		DOMINANT WAVES		WEATHER 0					
113.045	10/16/75	1322GMT	28 51.0N	116 18.0W	10	19.14	33.719		389.2
		BOTTOM	2227M	WIND 040 8KT					
		DOMINANT WAVES	310 2 7	WEATHER 0					
113.060	10/16/75	2225GMT	28 21.5N	117 16.5W	10	19.70	33.786		398.0
		BOTTOM	3738M	WIND 340 9KT					
		DOMINANT WAVES	330 4 6	WEATHER 0					
113.070	10/17/75	0345GMT	28 02.0N	117 55.0W	10	19.46	33.688		399.3
		BOTTOM	3546M	WIND 350 14KT					
		DOMINANT WAVES	320 3 8	WEATHER 1					
113.080	10/17/75	0908GMT	27 42.0N	118 33.0W	10	19.52	33.782		393.9
		BOTTOM	3926M	WIND 360 12KT					
		DOMINANT WAVES		WEATHER 0					
117.025	10/15/75	1345GMT	28 58.0N	114 37.0W	10	15.08	33.503		313.6
		BOTTOM	56M	WIND 310 14KT					
		DOMINANT WAVES	270 1 6	WEATHER 0					
117.026	10/15/75	1440GMT	28 55.5N	114 41.5W	10	16.49	33.557		339.8
		BOTTOM	78M	WIND 300 14KT					
		DOMINANT WAVES	270 2 6	WEATHER 0					
117.027	10/15/75	1530GMT	28 54.0N	114 45.0W	10	17.04	33.589		349.7
		BOTTOM	80M	WIND 320 12KT					
		DOMINANT WAVES	300 3 7	WEATHER 0					
117.028	10/15/75	1617GMT	28 52.0N	114 49.0W	10	16.06	33.455		337.8
		BOTTOM	90M	WIND 020 14KT					
		DOMINANT WAVES	280 3 6	WEATHER 0					
117.030	10/15/75	1735GMT	28 48.0N	114 56.5W	10	15.90	33.567		326.2
		BOTTOM	99M	WIND 320 14KT					
		DOMINANT WAVES	320 3 10	WEATHER 0					
117.035	10/15/75	2027GMT	28 38.0N	115 16.0W	10	17.00	33.586		349.0
		BOTTOM	220M	WIND 320 12KT					
		DOMINANT WAVES	320 3 10	WEATHER 0					
117.040	10/14/75	0417GMT	28 27.5N	115 35.0W	10	18.33	33.621		377.0
		BOTTOM	845M	WIND 350 24KT					
		DOMINANT WAVES	350 10 7	WEATHER 1					
117.060	10/13/75	1414GMT	27 50.0N	116 54.0W	10	19.84	33.790		401.2
		BOTTOM	3546M	WIND 360 24KT					
		DOMINANT WAVES	360 10 8	WEATHER 1					
117.070	10/13/75	0842GMT	27 27.5N	117 32.5W	10	19.42	33.663		400.1
		BOTTOM	3738M	WIND 360 14KT					
		DOMINANT WAVES		WEATHER 1					
117.080	10/13/75	0307GMT	27 05.0N	118 09.0W	10	19.51	33.685		400.7
		BOTTOM	4117M	WIND 020 17KT					
		DOMINANT WAVES	310 5 8	WEATHER 2					
118.039	10/14/75	0654GMT	28 18.5N	115 24.0W	10	18.56	33.624		382.2
		BOTTOM	242M	WIND 340 14KT					
		DOMINANT WAVES		WEATHER 1					
119.033	10/14/75	1055GMT	28 19.0N	114 53.0W	10	18.68	33.634		384.3
		BOTTOM	108M	WIND 360 24KT					
		DOMINANT WAVES		WEATHER 1					
120.022 ⁶	10/15/75	0908GMT	28 28.0N	114 04.5W	10	19.04	33.700		388.2
		BOTTOM	19M	WIND 360 10KT					
		DOMINANT WAVES	270 2 6	WEATHER 0					
120.022 ⁷	10/15/75	0850GMT	28 27.5N	114 05.5W	10	19.00	33.695		387.6
		BOTTOM	19M	WIND 350 14KT					
		DOMINANT WAVES	270 2 6	WEATHER 0					
120.023	10/15/75	0823GMT	28 27.0N	114 07.0W	10	18.68	33.675		381.4
		BOTTOM	22M	WIND 340 11KT					
		DOMINANT WAVES	270 2 6	WEATHER 0					
120.024	10/15/75	0735GMT	28 25.0N	114 10.5W	10	18.15	33.613		373.3
		BOTTOM	32M	WIND 340 13KT					
		DOMINANT WAVES		WEATHER 0					
120.025	10/15/75	0640GMT	28 23.0N	114 15.0W	10	18.27	33.631		374.8
		BOTTOM	60M	WIND 340 13KT					
		DOMINANT WAVES		WEATHER 0					

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Z	T	S	02				
120.026	10/15/75 0545GMT	28 21.0M	114 18.5W	10	18.23	33.620	374.7
	BOTTOM 76M WIND 340 12KT WEATHER 0						
	DOMINANT WAVES						
120.030	10/15/75 0336GMT	28 13.0M	114 34.0W	10	17.62	33.584	363.2
	BOTTOM 88M WIND 340 15KT WEATHER 1						
	DOMINANT WAVES 340 2 5						
120.035	10/14/75 1337GMT	28 03.0M	114 54.5W	10	18.94	33.652	389.3
	BOTTOM 80M WIND 340 17KT WEATHER 0						
	DOMINANT WAVES 340 4 5						
120.040	10/11/75 1905GMT	27 56.5M	115 14.0W	10	18.84	33.632	388.3
	BOTTOM 45M WIND 350 4KT WEATHER 0						
	DOMINANT WAVES 290 5 5						
120.045	10/11/75 2151GMT	27 43.0M	115 33.0W	10	18.18	33.769	362.7
	BOTTOM 2227M WIND 350 15KT WEATHER 1						
	DOMINANT WAVES 340 4 6						
120.050	10/12/75 0328GMT	27 33.0M	115 52.5W	10	19.18	33.769	386.5
	BOTTOM 4117M WIND 350 15KT WEATHER 2						
	DOMINANT WAVES 350 3 11						
120.060	10/12/75 0915GMT	27 13.5M	116 31.0W	10	20.12	33.756	410.7
	BOTTOM 4117M WIND 350 12KT WEATHER						
	DOMINANT WAVES						
120.080	10/12/75 2123GMT	26 32.5M	117 49.0W	10	20.14	34.006	393.0
	BOTTOM 3926M WIND 360 15KT WEATHER 1						
	DOMINANT WAVES 350 5 6						
123.035 ⁷	10/10/75 1919GMT	27 26.5M	114 35.0W	10	17.14	33.689	344.6
	BOTTOM 28M WIND 280 12KT WEATHER 0						
	DOMINANT WAVES 320 3 5						
123.036	10/10/75 1847GMT	27 26.0M	114 35.5W	10	17.18	33.684	345.9
	BOTTOM 47M WIND 280 11KT WEATHER 0						
	DOMINANT WAVES 320 3 5						
123.037	10/10/75 1753GMT	27 24.5M	114 40.0W	10	17.02	33.657	344.3
	BOTTOM 69M WIND 250 14KT WEATHER 0						
	DOMINANT WAVES 320 3 5						
123.038	10/10/75 1653GMT	27 22.0M	114 45.0W	10	17.04	33.640	345.9
	BOTTOM 84M WIND 340 14KT WEATHER 0						
	DOMINANT WAVES 320 3 5						
123.039	10/10/75 1607GMT	27 21.0M	114 47.5W	10	16.96	33.663	342.5
	BOTTOM 112M WIND 340 14KT WEATHER 0						
	DOMINANT WAVES 320 3 5						
123.042	10/10/75 1309GMT	27 06.0M	115 04.0W	10	20.10	33.841	404.0
	BOTTOM 3926M WIND 350 15KT WEATHER 1						
	DOMINANT WAVES 320 7 6						
123.045	10/10/75 1056GMT	27 08.0M	115 11.5W	10	19.01	33.752	383.7
	BOTTOM 3738M WIND 340 15KT WEATHER 1						
	DOMINANT WAVES 340 6 8						
123.050	10/10/75 0748GMT	26 58.0M	115 31.0W	10	19.34	33.738	392.7
	BOTTOM 3311M WIND 350 14KT WEATHER 1						
	DOMINANT WAVES 350 6 10						
127.032 ⁶	10/09/75 0147GMT	26 58.0M	114 01.0W	10	19.28	33.828	384.7
	BOTTOM 34M WIND 290 17KT WEATHER 0						
	DOMINANT WAVES 270 5 5						
127.033	10/09/75 0217GMT	26 57.5M	114 02.0W	10	19.43	33.835	387.9
	BOTTOM 67M WIND 290 15KT WEATHER 0						
	DOMINANT WAVES 270 5 5						
127.034	10/09/75 0310GMT	26 55.5M	114 06.0W	10	18.42	33.724	371.6
	BOTTOM 75M WIND 010 15KT WEATHER 0						
	DOMINANT WAVES 49						
127.035	10/09/75 0425GMT	26 53.0M	114 10.5W	10	20.68	33.843	418.5
	BOTTOM 93M WIND 010 11KT WEATHER 0						
	DOMINANT WAVES 49						
127.036	10/09/75 0515GMT	26 51.0M	114 14.5W	10	20.68	33.839	418.8
	BOTTOM 1058M WIND 050 11KT WEATHER 0						
	DOMINANT WAVES 49						
127.040	10/09/75 0800GMT	26 44.0M	114 29.5W	10	20.30	33.820	410.6
	BOTTOM 3169M WIND 350 15KT WEATHER 1						
	DOMINANT WAVES 49						
127.045	10/09/75 1105GMT	26 34.0M	114 49.0W	10	20.38	33.819	412.6
	BOTTOM 3358M WIND 330 12KT WEATHER 0						
	DOMINANT WAVES 49						
127.050	10/09/75 1415GMT	26 24.0M	115 10.0W	10	20.40	33.822	412.9
	BOTTOM 4309M WIND 010 12KT WEATHER 1						
	DOMINANT WAVES 330 6 10						
127.060	10/09/75 1942GMT	26 03.5M	115 47.0W	10	20.26	33.819	409.6
	BOTTOM 3738M WIND 330 12KT WEATHER 1						
	DOMINANT WAVES 330 6 12						
130.025 ⁶	10/08/75 1950GMT	26 38.0M	113 11.5W	10	21.04	34.278	396.2
	BOTTOM 17M WIND 270 11KT WEATHER 0						
	DOMINANT WAVES 49						

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130.026	10/08/75	1921GMT	26 37.0N	113 13.0W	10	20.84	34.300	389.5
		BOTTOM	28M	WIND 270	10KT	WEATHER		
		DOMINANT WAVES	49					
130.027	10/08/75	1832GMT	26 35.5N	113 17.5W	10	20.90	34.289	391.8
		BOTTOM	45M	WIND 270	4KT	WEATHER		
		DOMINANT WAVES	49					
130.028	10/08/75	1738GMT	26 33.5N	113 22.0W	10	20.92	34.232	396.5
		BOTTOM	58M	WIND 320	4KT	WEATHER		
		DOMINANT WAVES	49					
130.029	10/08/75	1645GMT	26 32.0N	113 25.5W	10	21.04	34.154	405.2
		BOTTOM	69M	WIND 340	6KT	WEATHER		
		DOMINANT WAVES	49					
130.030	10/08/75	1545GMT	26 30.0N	113 29.5W	10	20.76	34.125	400.1
		BOTTOM	75M	WIND 340	3KT	WEATHER		
		DOMINANT WAVES	49					
130.035	10/08/75	1245GMT	26 19.0N	113 49.0W	10	20.90	33.855	423.3
		BOTTOM	929M	WIND 360	10KT	WEATHER		
		DOMINANT WAVES	310	3	4			
130.050	10/08/75	0330GMT	25 49.0N	114 45.0W	10	21.06	33.860	427.0
		BOTTOM	3738M	WIND 360	13KT	WEATHER		
		DOMINANT WAVES						
130.060	10/07/75	2128GMT	25 28.0N	115 26.5W	10	21.18	33.911	426.4
		BOTTOM	3832M	WIND 340	13KT	WEATHER		
		DOMINANT WAVES	320	5	12			
133.020 ⁶	10/06/75	1123GMT	26 13.5N	112 31.0W	10	23.19	34.398	445.0
		BOTTOM	39M	WIND		WEATHER		
		DOMINANT WAVES						
133.021	10/06/75	1159GMT	26 12.5N	112 32.5W	10	23.72	34.436	456.9
		BOTTOM	48M	WIND		WEATHER		
		DOMINANT WAVES						
133.022	10/06/75	1247GMT	26 10.5N	112 36.5W	10	23.80	34.355	465.0
		BOTTOM	65M	WIND		WEATHER		
		DOMINANT WAVES	040	2	6			
133.023	10/06/75	1337GMT	26 08.5N	112 40.5W	10	24.84	34.379	492.9
		BOTTOM	75M	WIND		WEATHER		
		DOMINANT WAVES	040	2	6			
133.024	10/06/75	1416GMT	26 06.5N	112 44.5W	10	24.80	34.745	465.3
		BOTTOM	90M	WIND		WEATHER		
		DOMINANT WAVES	040	2	6			
133.025	10/06/75	1515GMT	26 04.5N	112 48.0W	10	24.71	34.672	468.0
		BOTTOM	82M	WIND		WEATHER		
		DOMINANT WAVES	270	3	6			
133.030	10/06/75	1755GMT	25 54.5N	113 07.5W	10	23.26	34.248	457.7
		BOTTOM	203M	WIND		WEATHER		
		DOMINANT WAVES	280	3	6			
133.035	10/06/75	2035GMT	25 44.5N	113 26.5W	10	22.58	33.974	458.9
		BOTTOM	632M	WIND 310	6KT	WEATHER		
		DOMINANT WAVES	310	4	12			
133.050	10/07/75	0905GMT	25 14.5N	114 24.0W	10	21.24	33.817	434.8
		BOTTOM	3738M	WIND 300	1KT	WEATHER		
		DOMINANT WAVES						
133.060	10/07/75	1525GMT	24 54.5N	115 02.0W	10	21.44	33.835	438.7
		BOTTOM	3738M	WIND 010	17KT	WEATHER		
		DOMINANT WAVES	330	5	14			
137.020 ⁷	10/06/75	0726GMT	25 40.0N	112 09.5W	10	23.17	34.458	440.1
		BOTTOM	17M	WIND 320	7KT	WEATHER		
		DOMINANT WAVES	320	2	8			
137.022	10/06/75	0620GMT	25 36.5N	112 15.0W	10	24.96	34.741	470.3
		BOTTOM	50M	WIND 320	6KT	WEATHER		
		DOMINANT WAVES	310	2	6			
137.023	10/06/75	0528GMT	25 34.5N	112 19.0W	10	25.18	34.795	472.7
		BOTTOM	75M	WIND 310	7KT	WEATHER		
		DOMINANT WAVES	310	2	8			
137.024	10/06/75	0437GMT	25 32.5N	112 23.0W	10	25.25	34.769	476.7
		BOTTOM	84M	WIND 310	6KT	WEATHER		
		DOMINANT WAVES	310	2	12			
137.030	10/06/75	0125GMT	25 23.0N	112 44.5W	10	22.11	33.960	447.4
		BOTTOM	399M	WIND 320	11KT	WEATHER		
		DOMINANT WAVES	350	3	7			
137.035	10/05/75	2230GMT	25 10.0N	113 04.5W	10	23.28	34.284	455.7
		BOTTOM	910M	WIND 320	6KT	WEATHER		
		DOMINANT WAVES	350	3	7			
137.040	10/05/75	1924GMT	25 00.5N	113 21.0W	10	24.70	34.663	468.4
		BOTTOM	3075M	WIND 340	4KT	WEATHER		
		DOMINANT WAVES	350	3	7			
137.050	10/05/75	1302GMT	24 38.0N	114 10.0W	10	22.95	34.086	460.9
		BOTTOM	4069M	WIND 020	4KT	WEATHER		
		DOMINANT WAVES	020	3	7			