

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 6904
2-26 April 1969

CalCOFI Cruise 6905
5-29 May 1969

and

CalCOFI Cruise 6906
9-28 June 1969

SIO Reference 77-22
1 November 1977

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

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Sponsored by
Marine Research Committee

SIO Reference 77-22

Approved for distribution:

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

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INTRODUCTION

The data in this report was collected during cruises 6904*, 6905 and 6906 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV David Starr Jordan, of the Bureau of Commercial Fisheries (now National Marine Fisheries Service), and the RV Alexander Agassiz, of the Scripps Institution of Oceanography. The report preceeding this one in the series was SIO Ref. 76-14, which included data for January and February 1969.

This data was collected in part and processed completely by personnel of the Data Collection and Processing Group (DCPG, MLR), Scripps Institution of Oceanography.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts consisted of 12 to 18 bottles. At most stations the maximum sampling depth was 600 meters, bottom depth permitting. Temperature, oxygen, and nutrients were determined for all depths on each station, but samples from only five selected depths were used to determine salinity for comparison with the STD.

On STD lowerings where hydrographic casts were not made, a Nansen bottle was usually placed on the wire a few meters above the STD and another bottle was lowered to a depth of approximately 10 meters. Temperature, salinity, and nutrients were determined for most of the 10 meter samples. On the RV David Starr Jordan water samples at some stations were collected with a Niskin rosette lowered on the STD cable. Thermometers were used on the deepest Niskin sampler to record the temperature.

In general, paired protected reversing thermometers were used to determine temperatures which were recorded to hundredths of a Celsius degree. Temperatures determined using unprotected (pressure) thermometers or surface "bucket" thermometers were recorded to tenths of a degree. Sample bottles used below 100 meters were equipped with unprotected thermometers.

The salinities for the three cruises included in this report were all determined using Bissett Berman (now Plessey Environmental Systems) Model 6220 inductive salinometers. Difficulty was experienced at times with each salinometer resulting in some values being omitted from the tabulations.

The salinity values were recorded and are reported to three decimal places, provided accepted standards were met. If only one determination per sample was obtained, or there was doubt concerning the accuracy of the analytical results, the salinities are reported to two decimal places. All STD salinities are tabulated to hundredths.

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

Phosphate, silicate, nitrite, and nitrate were determined using a first generation Technicon AutoAnalyzer^R and methods developed at the Bureau of Commercial Fisheries based on the methodologies of Strickland (1968).

The observed data could not be evaluated using standard DCPG techniques (Klein, 1973) due to the sparsity of salinity data. Oxygen and nutrient values were plotted against depth.

In Situ Salinity/Temperature/Depth Recorder (STD) data

The Bissett Berman Model 9006 STD was used on both ships for lowerings on all three cruises. Both ships also used the digital data logger (DDL) Model 8114 for data recording.

The STD and data logger appeared to work well on all cruises included in this report. Comparison of sample bottle observations with the STD data from corresponding depths resulted in the following corrections to the tabulated STD data:

	Temperature °C 0-500m	Salinity ‰ 0-500m
Cruise 6904		
RV Alexander Agassiz	-0.02	0.01
RV David Starr Jordan	-0.013	-0.041
Cruise 6905		
RV David Starr Jordan	-0.01	-0.02
Cruise 6906		
RV David Starr Jordan	none	-0.028

TABULATED DATA

The time reported is Greenwich Mean Time. For STD lowerings it is the "start down" time and for bottle casts it is the time of messenger release. When more than one cast was lowered on a station, the messenger times for

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

Data for all cruises presented in this report was obtained by bottle casts and by the STD, and appear in two forms:

1. Data from the sample bottle casts is tabulated with the observed levels of depth on the left of a page, and standard depth values of temperature and oxygen interpolated from these observations on the right.
2. For each STD lowering, temperature and salinity values are read only at standard levels of depth and appear with computed values of DT and DD on the right of the page. Corrections have been applied to the temperature and salinity values as discussed previously in this report. Nutrient data from samples collected with a Niskin rosette is tabulated at observed levels of depth to the left of the STD data.

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 90.65 appears in the tabulated data as 90065. The column headings are to be interpreted as follows:

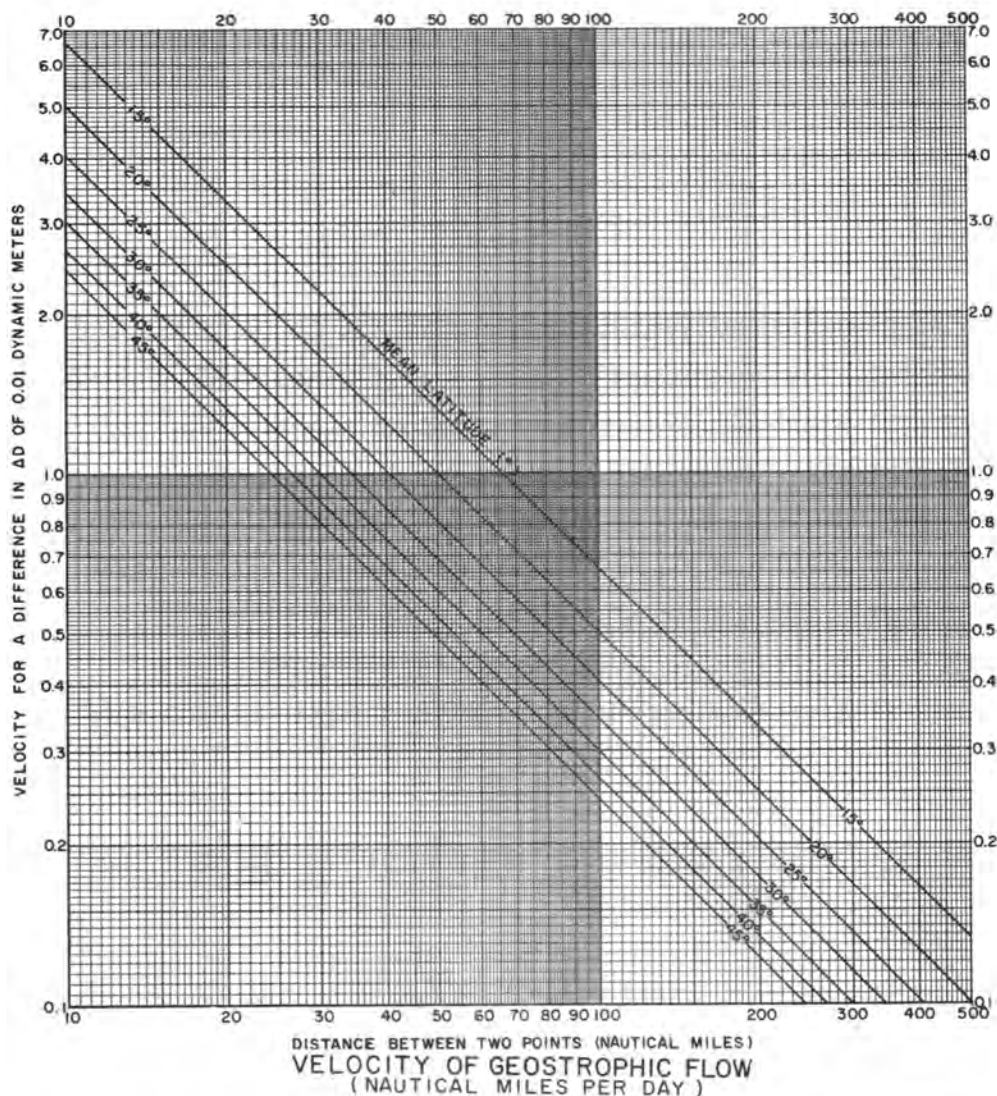
Z	Depth	Meters
T	Temperature	°C
S	Salinity	‰
O2	Dissolved oxygen	ml/L
PO4	"Reactive" inorganic phosphate-phosphorous	µg at/L
SiO3	"Reactive" inorganic silicate-silicon	µg at/L
NO2	"Reactive" nitrite-nitrogen	µg at/L
NO3	"Reactive" nitrate-nitrogen	µg at/L
DT	δT Thermosteric anomaly	cl/ton
SIGT	$\sigma_t = (\rho_{s,t,0} - 1)10^3$ where $\rho_{s,t,0}$ is the density the parcel would have if moved isothermally to the sea surface.	g/L
DD	Geopotential anomaly, referred to the sea surface.	dyn. meters

FOOTNOTES

Data which appears to be in error without obvious reason is reported, but flagged uncertain with a U. Such data was not used in the determination of values at standard depths. Footnotes are used to indicate data which has required special processing.

REFERENCES

- Anderson, G.C., compiler, 1971. "Oxygen Analysis", Marine Technician's Handbook, SIO Ref. No. 71-10, Sea Grant Pub. No. 11.
- Autolab Ind. Pty. Ltd., Sydney, 1960. Inductively Coupled Salinometer MK 111, Model 601, Operating Inst. and Ills. Parts List.
- Bissett Berman Marine Division, 1967. Operation and Maintenance Manual, Laboratory Salinometer Model 6220.
- Brown, N.L., and B.V. Hamon, 1961. An Inductive Salinometer. Deep Sea Research, 8: 65-75.
- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for Winkler dissolved oxygen method. Limnol. and Oceanogr., 10: 141-143.
- In situ Salinity/Temperature/Depth Monitoring and Recording System, Model 9006, Tech. Rep. No. 102, Hytech Marine Products, The Bissett Berman Corporation (now Plessey Environmental Systems).
- Klein, Hans T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.
- Matthews, D.J., 1939. Tables of the velocity of sound in pure water and seawater for use in echo-sounding and sound-ranging. Second Edition. Hydrographic Department, Admiralty, H.D. 282: 52pp.
- Strickland, J.D.H., and T.R. Parsons, 1968. A practical handbook of seawater analysis. Fish. Res. Board of Canada, Bull. No. 167: 311pp.
- University of Washington, 1960. Univ. of Wash. Dept. of Oceanography, Oct. 1960. Tech. Rep. UW Ref. No. 60-18.



cm/sec	0	1	2	3	4	5	6	7	8	9
0	0.02 KNOTS NM/DAY	0.04 0.47	0.06 0.93	0.08 1.40	0.10 1.86	0.12 2.33	0.14 2.80	0.16 3.26	0.17 3.73	0.17 4.20
10	0.19 4.66	0.21 5.13	0.23 5.59	0.25 6.06	0.27 6.53	0.29 6.99	0.31 7.46	0.33 7.93	0.35 8.39	0.37 8.86
20	0.39 9.32	0.41 9.79	0.43 10.26	0.45 10.72	0.47 11.19	0.49 11.66	0.51 12.12	0.52 12.59	0.54 13.05	0.56 13.52
30	0.58 13.99	0.60 14.45	0.62 14.92	0.64 15.38	0.66 15.85	0.68 16.32	0.70 16.78	0.72 17.25	0.74 17.72	0.76 18.18
40	0.78 18.65	0.80 19.11	0.82 19.58	0.84 20.05	0.85 20.51	0.87 20.98	0.89 21.45	0.91 21.91	0.93 22.38	0.95 22.84
50	0.97 23.31	0.99 23.78	1.01 24.24	1.03 24.71	1.05 25.17	1.07 25.64	1.09 26.11	1.11 26.57	1.13 27.04	1.15 27.51
60	1.17 27.98	1.18 28.44	1.20 28.90	1.22 29.37	1.24 29.84	1.26 30.30	1.28 30.77	1.30 31.24	1.32 31.70	1.34 32.17
70	1.35 32.63	1.38 33.10	1.40 33.57	1.42 34.03	1.44 34.50	1.46 34.96	1.48 35.43	1.50 35.90	1.52 36.36	1.53 36.83
80	1.55 37.30	1.57 37.76	1.59 38.23	1.61 38.69	1.63 39.16	1.65 39.63	1.67 40.09	1.69 40.56	1.71 41.03	1.73 41.49
90	1.75 41.96	1.77 42.42	1.79 42.89	1.81 43.36	1.83 43.82	1.85 44.29	1.86 44.76	1.88 45.22	1.90 45.69	1.92 46.15
100	1.94 46.62	1.96 47.09	1.98 47.55	2.00 48.02	2.02 48.48	2.04 48.95	2.06 49.42	2.08 49.88	2.10 50.35	2.12 50.82

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

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

FIGURES

Cruise 6906

1. CalCOFI Cruise 6906, 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

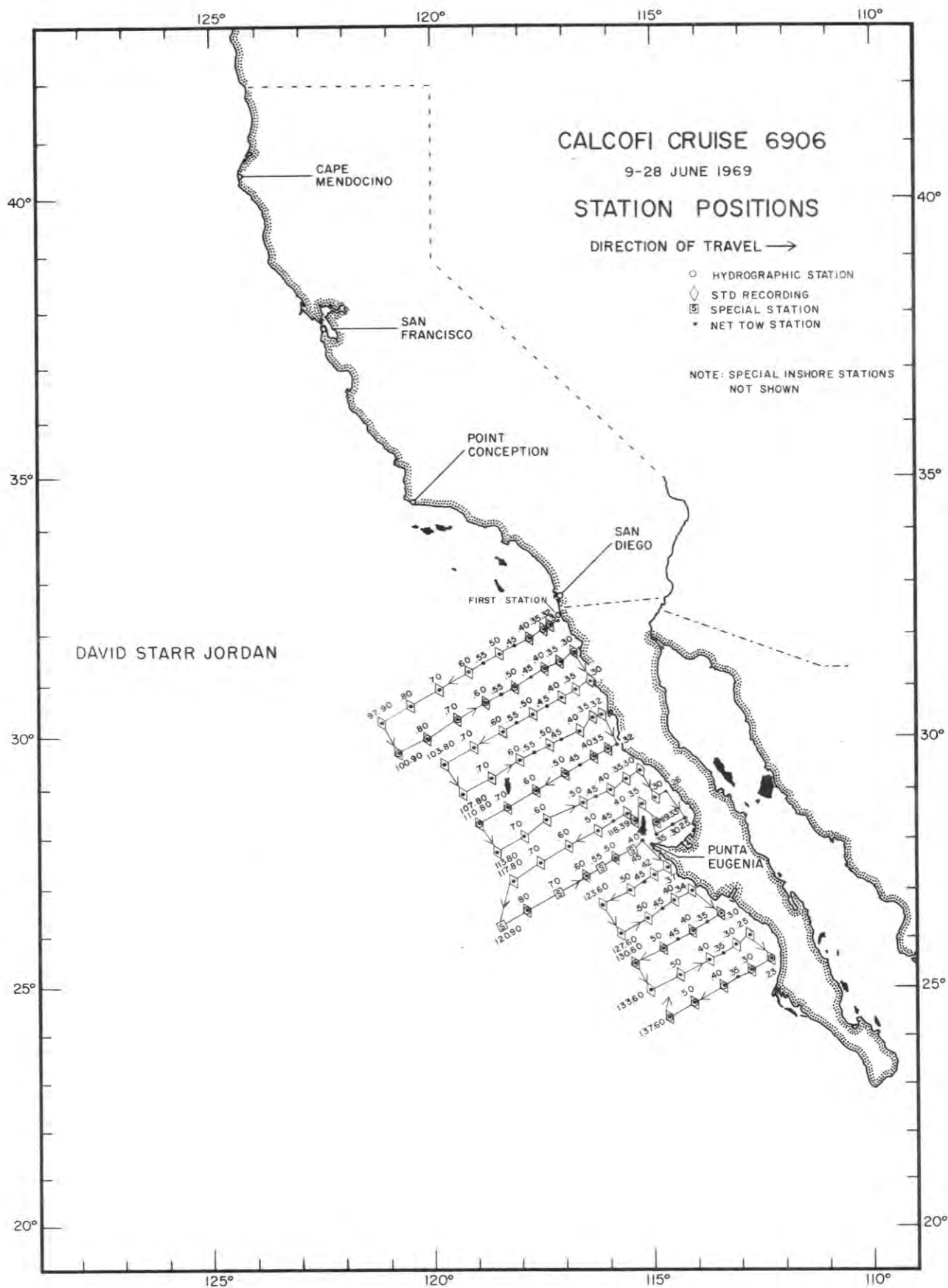


FIGURE 1

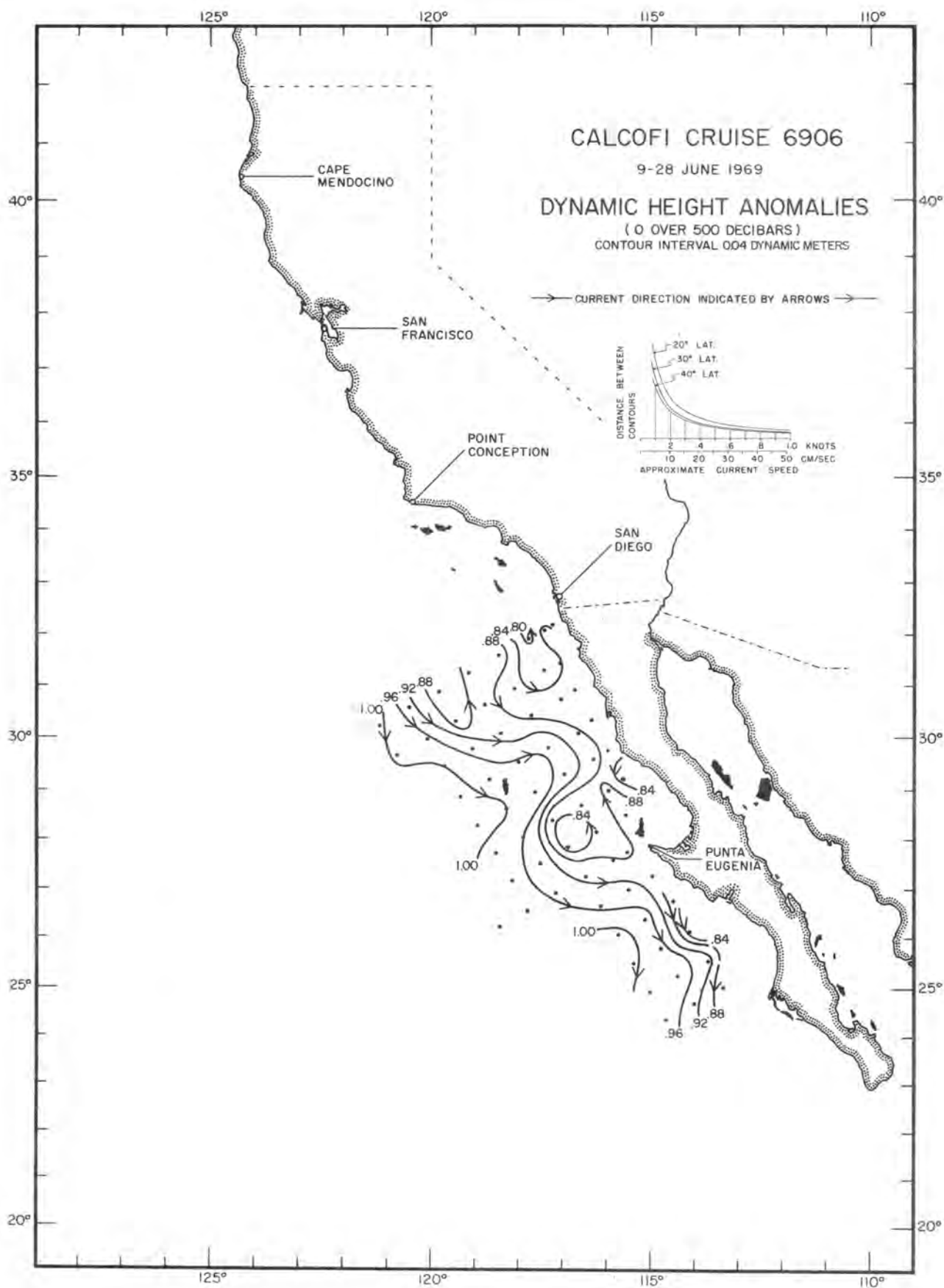


FIGURE 2

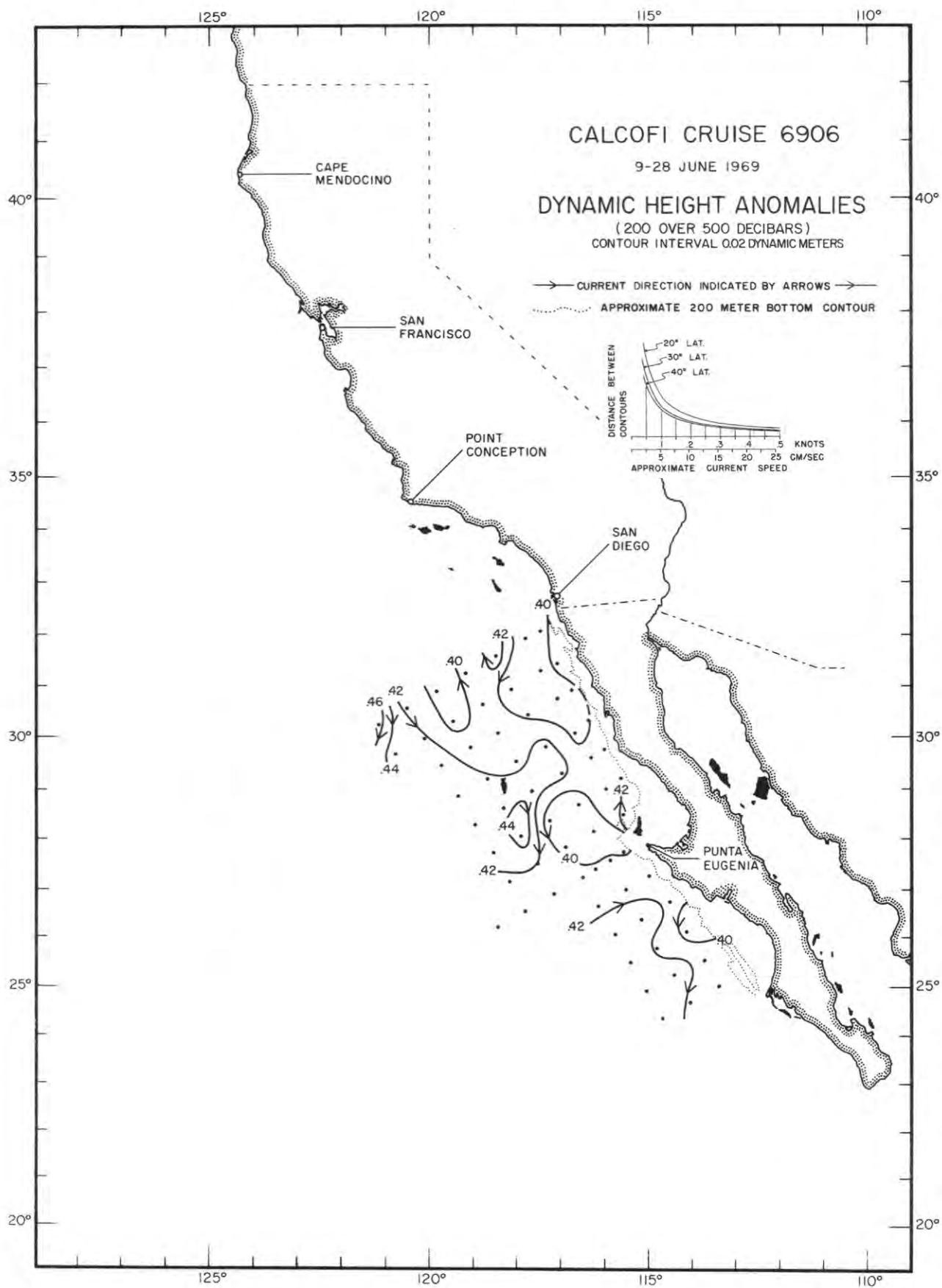


FIGURE 3

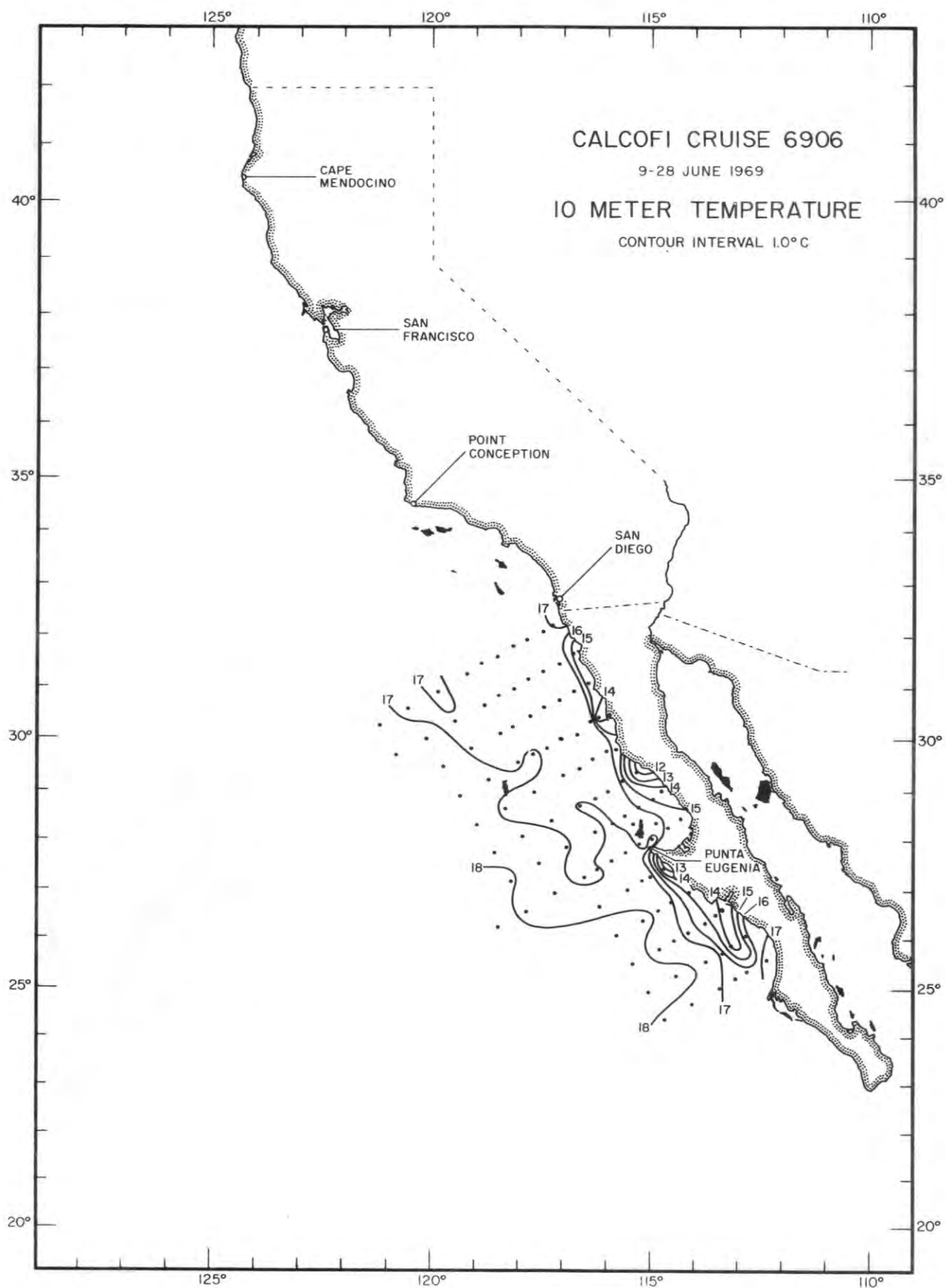


FIGURE 4

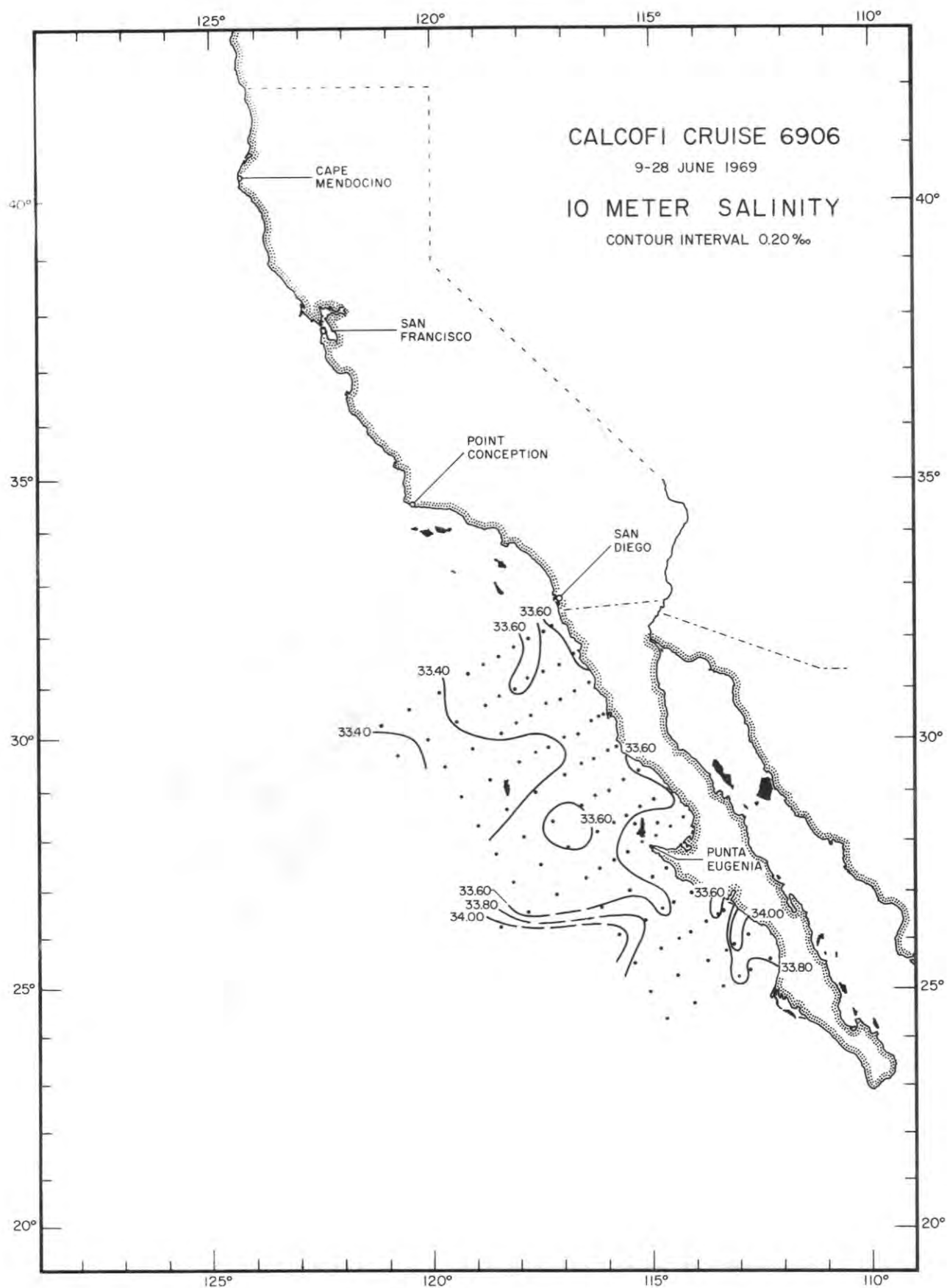


FIGURE 5

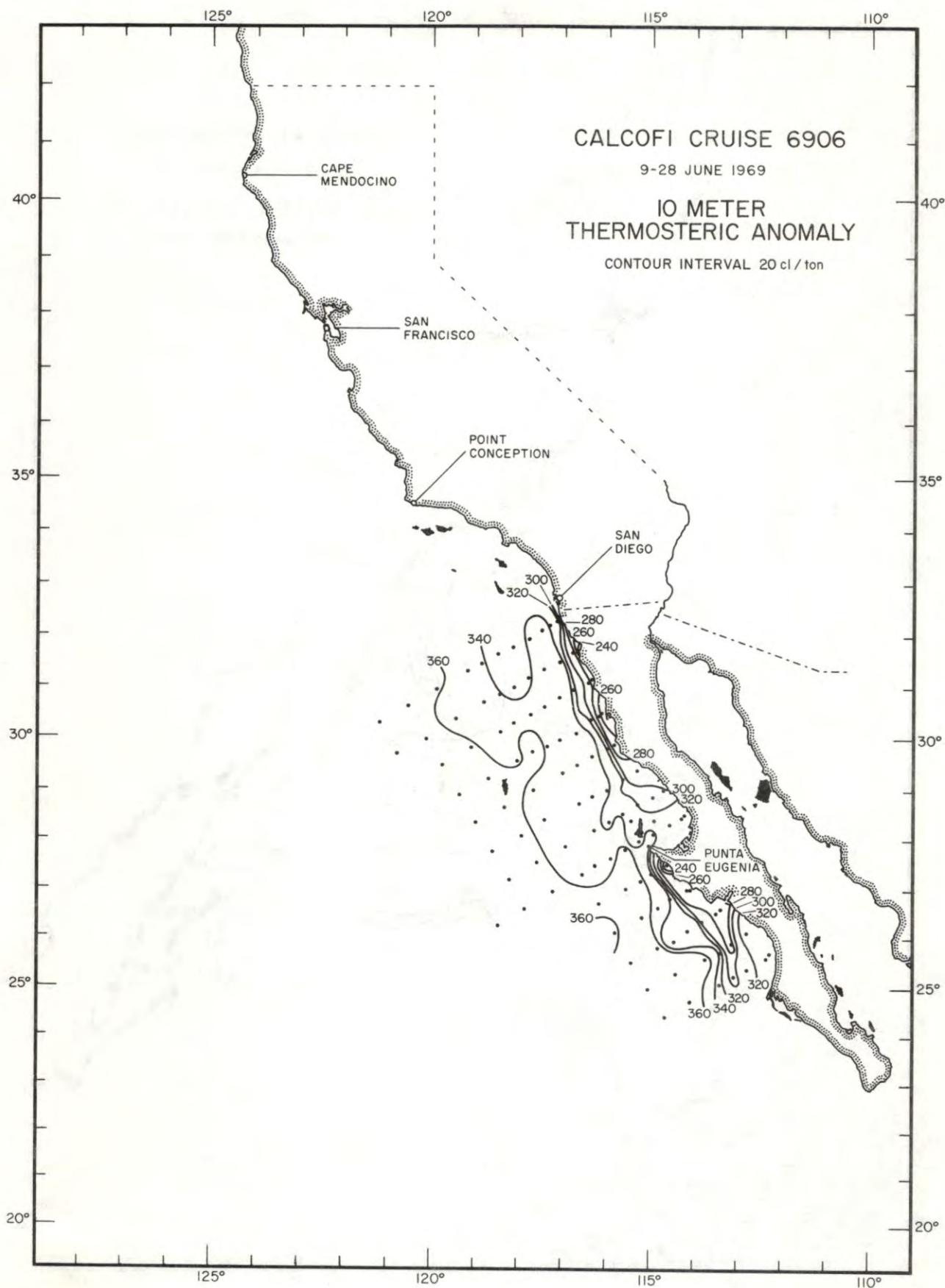


FIGURE 6

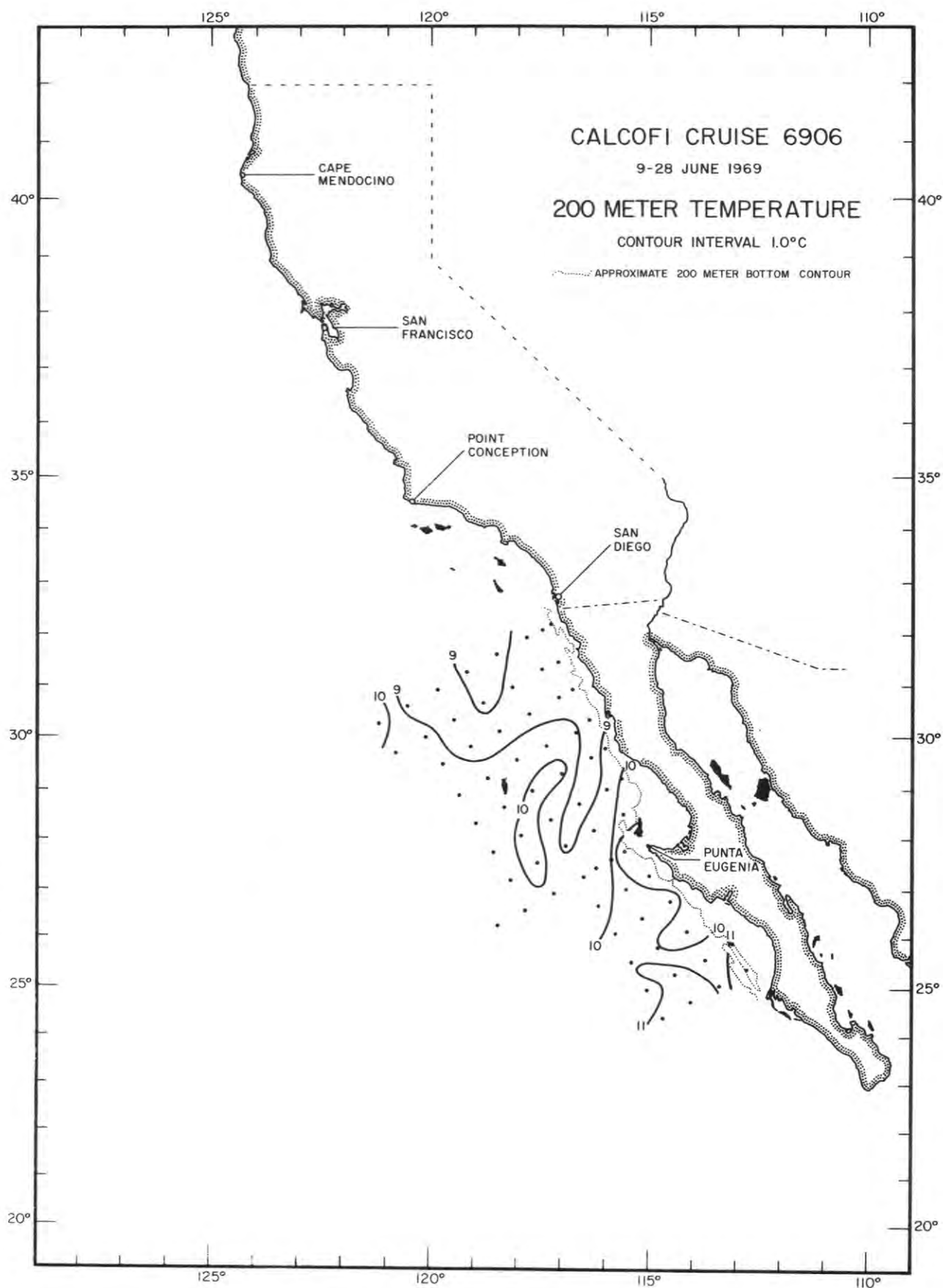


FIGURE 7

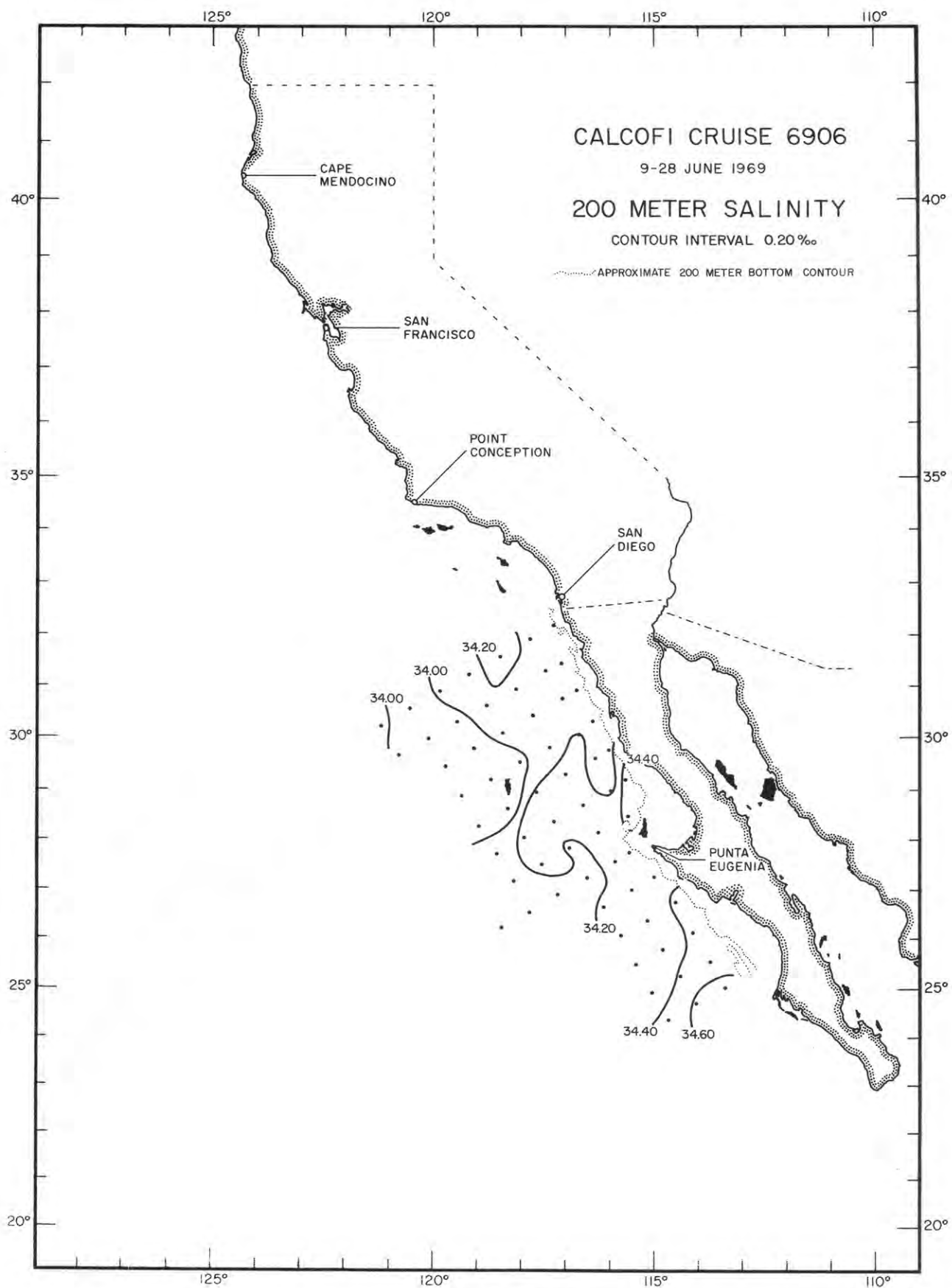


FIGURE 8

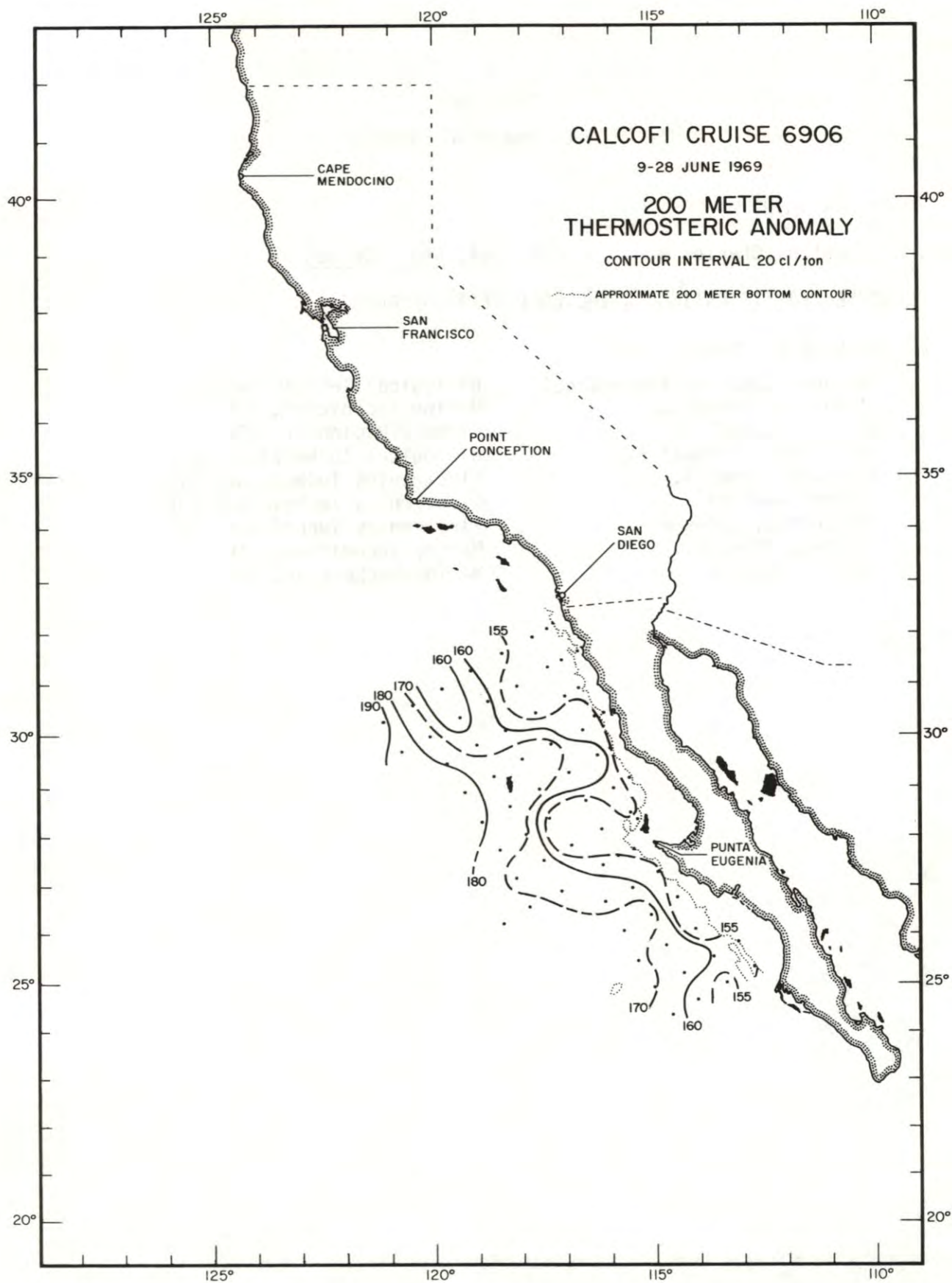


FIGURE 9

PERSONNEL

Cruise 6906 (South)

SHIP'S CAPTAIN

Forster, Charles W.

RV David Starr Jordan

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV David Starr Jordan

Metoyer, Jack D. (in charge)	Biological Technician, BCF*
Anderson, George C.	Marine Technician, SIO
Kruse, Michael G.	Fishery Biologist, BCF*
McMasters, Michael F.	Biological Technician, BCF*
Schmitt, James A.	Electronics Technician, SIO
Shuey, Raymond	Electronics Technician, BCF*
Singleton, James R.	Electronics Technician, SIO
Thomas, James E.	Marine Technician, SIO
Wells, James A.	Marine Technician, SIO

*Bureau of Commercial Fisheries

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97032

LATITUDE 32 12.0N			LONGITUDE 117 15.0W			MO/DAY/YR 06/10/69		MESSENGER TIME 0040 GMT		BOTTOM 1295M	WIND 310	SPEED 11KT	WEATHER 2	DOMINANT WAVES 310 04 05		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
0			5.74	.29	5.	.00	.1		0	17.73	33.63		24.311	362.3	0	
10			5.77	.29	4.	.00	.1		10	17.05	33.63		24.473	346.9	.035	
30			5.89	.40	7.	.05	1.8		20	14.70	33.60		24.979	298.7	.068	
50			5.10	.88	16.	.06	9.0		30	13.38	33.57		25.231	274.7	.097	
80			3.70	1.55	32.	.00	19.0		50	11.34	33.59		25.638	235.9	.148	
110			3.36	1.71	44.	.00	24.0		75	10.47	33.66		25.847	216.1	.205	
150			2.71	2.06	58.	.00	27.6		100	9.81	33.84		26.100	192.1	.256	
200			2.53	2.16	73.	.00	30.5		125	9.41	33.95		26.252	177.7	.303	
250			2.14						150	9.10	34.00		26.341	169.2	.347	
300			1.30						200	8.71	34.14		26.512	153.0	.429	
400			.99						250	7.86	34.12		26.625	142.2	.505	
500			.68						300	7.96	34.27		26.728	132.5	.576	
									400	7.15	34.29		26.861	119.9	.708	
									500	6.31	34.31		26.990	107.6	.828	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97035

LATITUDE 32 05.5N			LONGITUDE 117 27.5W			MO/DAY/YR 06/10/69		MESSENGER TIME 0245 GMT		BOTTOM 1202M	WIND 310	SPEED 12KT	WEATHER 1	DOMINANT WAVES 300 03 05		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
0			5.81	.29	3.	.00	.3		0	16.54	33.53		24.516	342.8	0	
10			6.19	.29	3.	.00	.3		10	16.54	33.53		24.516	342.8	.034	
30			4.89	.61	4.	.00	.4		20	14.98	33.44		24.796	316.1	.067	
50			3.82	.96	18.	.13	10.1		30	13.87	33.41		25.008	295.9	.098	
80			3.69	1.28	31.	.00	17.0		50	11.50	33.44		25.493	249.8	.153	
110			3.31	1.58	37.	.00	21.1		75	10.76	33.64		25.781	222.4	.212	
150			2.32	1.76	53.	.00	26.4		100	10.02	33.70		25.956	205.8	.266	
200			1.83	2.24	74.	.00	31.0		125	9.52	33.84		26.148	187.5	.316	
250			1.32						150	8.86	33.92		26.316	171.5	.361	
300			.77						200	8.53	34.13		26.532	151.1	.444	
400			.52						250	8.09	34.15		26.615	143.2	.519	
500			.60						300	7.83	34.22		26.708	134.4	.591	
									400	6.76	34.25		26.883	117.8	.723	
									500	6.14	34.33		27.028	104.1	.840	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97040

LATITUDE 31 56.0N			LONGITUDE 117 48.0W			MO/DAY/YR 06/10/69		MESSENGER TIME 0540 GMT		BOTTOM 1295M	WIND 290	SPEED 06KT	WEATHER 1	DOMINANT WAVES 310 03 05		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
0			5.97	.32	6.	.00	.3		0	16.21	33.67		24.699	325.4	0	
10			6.02	.43	6.	.00	.3		10	16.21	33.67		24.699	325.4	.033	
30			6.02	.45	12.	.11	4.0		20	16.21	33.66		24.691	326.1	.065	
50			4.69	1.47	24.	.44	13.1		30	13.62	33.54		25.159	281.5	.096	
80			3.47	2.06	42.	.00	22.3		50	11.52	33.56		25.582	241.3	.148	
110			3.17	2.27	55.	.00	26.2		75	10.08	33.74		25.977	203.8	.204	
150			2.53	2.32	71.	.00	30.0		100	9.67	33.98		26.232	179.5	.252	
200			1.81	2.56	86.	.00	32.4		125	9.39	34.06		26.341	169.2	.297	
250			1.52						150	8.71	34.07		26.457	158.2	.338	
300			1.15						200	8.34	34.14		26.569	147.6	.416	
400			.67						250	7.89	34.19		26.676	137.4	.489	
500			.58						300	7.34	34.22		26.779	127.7	.558	
									400	6.51	34.27		26.932	113.1	.684	
									500	6.05	34.33		27.039	103.0	.798	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97050

LATITUDE 31 36.5N			LONGITUDE 118 29.0W			MO/DAY/YR 06/10/69		MESSENGER TIME 1110 GMT		BOTTOM 2509M	WIND 280	SPEED 10KT	WEATHER 1	DOMINANT WAVES 300 03 05		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	16.23	33.44		24.518	342.6	0	
									10	16.23	33.44		24.518	342.6	.034	
									20	15.98	33.38		24.529	341.6	.069	
									30	15.00	33.38		24.745	320.9	.102	
									50	14.32	33.39		24.898	306.3	.165	
									75	11.50	33.66		25.663	233.6	.233	
									100	10.96	33.86		25.916	209.5	.288	
									125	10.30	34.05		26.180	184.5	.338	
									150	9.99	34.21		26.358	167.6	.383	
									200	9.95	34.34		26.466	157.4	.466	
									250	9.82	34.38		26.519	152.3	.546	
									300	9.51	34.40		26.586	145.9	.623	
									400	8.16	34.33		26.745	130.9	.768	
									500	6.64	34.30		26.938	112.5	.897	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 16.0N		119 10.0W		06/10/69		1824 GMT			3738M	280	08KT	1	290 04 07		
Z	T	S	02	P04	S103	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0A	16.28A	33.43A		24.499	344.4	0
									10	16.23	33.43		24.510	343.3	.034
									20	15.70	33.43		24.630	331.9	.068
									30	14.72	33.41		24.829	313.0	.101
									50	12.87	33.36		25.171	280.4	.160
									75	11.48	33.38		25.450	253.9	.227
									100	10.40	33.60		25.813	219.4	.287
									125	10.16	33.80		26.010	200.7	.340
									150	10.24	34.06		26.198	182.8	.389
									200	9.36	34.17		26.431	160.6	.476
									250	8.83	34.25		26.579	146.6	.555
									300	7.89	34.21		26.691	135.9	.628
									400	6.95	34.28		26.880	118.0	.761
									500	6.34	34.32		26.994	107.3	.880

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 55.0N		119 50.0W		06/11/69		0015 GMT			3546M	300	10KT	1	310 03 05		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0A	17.26A	33.39A		24.240	369.1	0
									10	17.05	33.39		24.290	364.3	.037
									20	15.55	33.37		24.617	333.1	.072
									30	14.00	33.34		24.927	303.6	.104
									50	12.13	33.39		25.337	264.6	.161
									75	11.21	33.47		25.569	242.6	.224
									100	10.03	33.60		25.876	213.4	.282
									125	9.79	33.81		26.080	194.0	.333
									150	9.15	33.92		26.270	175.9	.380
									200	8.26	34.03		26.495	154.6	.464
									250	7.61	34.10		26.646	140.2	.540
									300	7.32	34.19		26.758	129.6	.610
									400	6.67	34.27		26.911	115.2	.737
									500	5.71	34.28		27.042	102.7	.852
									600	5.39	34.37		27.152	92.2	.952

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97080

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 35.0N		120 31.0W		06/11/69		0530 GMT			3926M	310	03KT	1	310 03 05		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	16.80	33.32		24.295	363.9	0
									10	16.74	33.30		24.293	364.0	.036
									20	16.04	33.22		24.393	354.5	.072
									30	14.52	33.22		24.725	322.8	.106
									50	13.35	33.28		25.013	295.4	.168
									75	12.90	33.31		25.126	284.7	.241
									100	11.69	33.43		25.450	253.8	.309
									125	10.61	33.54		25.730	227.3	.370
									150	10.04	33.72		25.968	204.6	.425
									200	8.91	33.95		26.332	170.0	.520
									250	8.12	34.04		26.524	151.8	.602
									300	7.82	34.12		26.631	141.7	.678
									400	6.36	34.14		26.849	121.0	.815
									500	5.92	34.26		27.000	106.6	.935

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

97090

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 15.5N		121 10.5W		06/11/69		0937 GMT			4404M	310	02KT	2	00		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.45	33.36		24.172	375.6	0
									10	17.45	33.36		24.172	375.6	.038
									20	16.33	33.34		24.418	352.1	.074
									30	16.22	33.35		24.451	348.9	.109
									50	15.33	33.33		24.635	331.4	.177
									75	13.75	33.30		24.948	301.7	.257
									100	11.88	33.42		25.407	258.0	.327
									125	11.16	33.83		25.857	215.2	.387
									150	11.01	33.92		25.954	205.9	.441
									200	10.79	34.04		26.086	193.4	.542
									250	10.64	34.16		26.206	182.0	.639
									300	10.07	34.27		26.391	164.5	.728
									400	8.08	34.24		26.687	136.4	.885
									500	6.84	34.28		26.895	116.6	1.019

A) NO DATA WAS RECORDED BY THE DIGITAL DATA LOGGER. THE VALUES AT STANDARD DEPTHS HAVE BEEN DIGITIZED FROM THE ANALOG RECORDING AND THE SAME CALIBRATION CORRECTION APPLIED.

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

100030

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
31 40.5N		116 46.5W		06/13/69		0545 GMT		371M		310		10KT				300 05 04	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			6.02	.51	16.	.00	.6		0	15.46	33.60		24.814	314.4	0		
10			5.97	.56	16.	.00	1.3		10	14.24	33.60		25.077	289.4	.030		
30			3.69	1.58	36.	.02	18.7		20	11.02	33.57		25.681	231.9	.056		
50			2.76	1.92	52.	.00	24.7		30	10.46	33.72		25.896	211.5	.079		
80			2.58	2.08	58.	.00	26.2		50	9.88	33.94		26.166	185.8	.118		
110			2.38	2.16	63.	.00	26.2		75	9.66	34.03		26.273	175.7	.164		
150			2.01	2.35	74.	.00	27.5		100	9.46	34.07		26.337	169.6	.208		
200			1.72	2.46	85.	.00	30.5		125	9.47	34.15		26.398	163.8	.250		
250			1.03						150	9.35	34.20		26.456	158.2	.291		
300			.86						200	8.87	34.23		26.557	148.7	.369		
350			.92						250	8.86	34.32		26.629	141.9	.444		
									300	8.48	34.34		26.704	134.7	.516		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100035

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
31 27.0N		117 05.0W		06/13/69		0222 GMT		1129M		310		15KT		1		300 05 04	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			5.85	.21	5.	.00	.1		0	16.87	33.58		24.477	346.5	0		
10			5.85	.35	5.	.00	.0		10	16.85	33.57		24.474	346.7	.035		
30			6.20	.35	5.	.00	.0		20	15.97	33.51		24.630	331.9	.069		
50			5.52	.64	14.	.00	7.0		30	13.08	33.49		25.229	274.8	.099		
80			3.68	1.42	37.	.00	18.5		50	11.25	33.54		25.616	238.1	.151		
110			2.92	1.76	50.	.00	21.6		75	10.28	33.72		25.927	208.5	.207		
150			2.41	1.92	62.	.00	23.8		100	9.90	33.88		26.116	190.6	.257		
200			2.52	2.08	75.	.00	25.4		125	9.81	34.05		26.263	176.6	.304		
250			1.46						150	9.70	34.09		26.313	171.9	.348		
300			1.16						200	8.92	34.15		26.487	155.4	.431		
400			.67						250	8.97	34.31		26.604	144.3	.508		
500			.51						300	8.22	34.28		26.697	135.4	.581		
									400	7.64	34.34		26.830	122.8	.716		
									500	6.37	34.32		26.990	107.6	.838		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100040

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
31 19.0N		117 27.0W		06/12/69		2137 GMT		2037M		300		10KT		1		300 04 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			5.76	.21	3.	.00	.0		0	16.80	33.56		24.478	346.4	0		
10			5.76	.32	3.	.00	.0		10	16.76	33.56		24.487	345.5	.035		
30			6.03	.32	6.	.00	.0		20	16.07	33.48		24.585	336.2	.069		
50			4.77	.83	19.	.34	4.4		30	14.11	33.44		24.981	298.5	.101		
80			3.87	1.44	33.	.00	18.0		50	11.54	33.46		25.501	249.0	.155		
110			3.17	1.66	47.	.00	21.3		75	10.22	33.64		25.875	213.5	.214		
150			2.44	1.87	64.	.00	23.5		100	9.97	33.82		26.057	196.1	.265		
200			2.25	2.11	78.	.06	26.6		125	9.71	34.02		26.257	177.2	.313		
250			1.86						150	9.38	34.13		26.397	163.9	.356		
300			1.60						200	8.57	34.13		26.526	151.6	.436		
400			.65						250	7.96	34.16		26.642	140.6	.511		
500			.33						300	7.39	34.21		26.764	129.1	.581		
									400	6.96	34.36		26.942	112.2	.707		
									500	6.27	34.35		27.026	104.2	.822		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100050

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
30 58.0N		118 07.0W		06/12/69		1335 GMT		1763M		340		10KT		5		340 03 04	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			6.00	.35	4.	.00	.7		0	16.31	33.57		24.599	334.8	0		
10			6.00	.32	4.	.00	.6		10	16.09	33.62		24.688	326.4	.033		
30			6.12	.51	9.	.00	2.2		20	15.13	33.53		24.832	312.6	.065		
80			4.55	1.20	25.	.00	13.1		30	13.80	33.53		25.114	285.8	.095		
110			3.60	1.71	40.	.00	18.4		50	12.60	33.56		25.378	260.7	.150		
150			3.23	1.79	54.	.00	21.6		75	10.72	33.51		25.687	231.3	.212		
200			2.27	2.27	80.	.00	26.3		100	10.21	33.71		25.931	208.1	.267		
250			1.73						125	9.37	33.83		26.165	185.9	.317		
300			1.26						150	9.08	33.93		26.289	174.1	.363		
400			.75						200	8.53	34.14		26.540	150.3	.445		
500			.60						250	8.30	34.20		26.622	142.5	.521		
									300	7.98	34.27		26.725	132.8	.592		
									400	7.05	34.30		26.882	117.8	.723		
									500	6.20	34.31		27.004	106.3	.842		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100060

LATITUDE 30 39.0N			LONGITUDE 118 47.0W			MO/DAY/YR 06/12/69		MESSENGER TIME 0745 GMT		BOTTOM 2602M	WIND 320	SPEED 10KT	WEATHER 2	DOMINANT WAVES 340 02 04		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0			5.74	.27	3.	.00	.3		0	16.99	33.48		24.372	356.4	0	
10			5.75	.32	3.	.00	.3		10	16.98	33.49		24.382	355.5	.036	
30			5.81						20	16.74	33.50		24.446	349.4	.071	
50			5.96	.32	3.	.00	.3		30	16.03	33.46		24.579	336.8	.105	
80			4.86	.93	18.	.03	9.8		50	15.40	33.46		24.719	323.4	.172	
110			4.35	1.25	25.	.00	14.6		75	12.24	33.44		25.354	262.9	.245	
150			2.97	1.87	48.	.00	24.0		100	10.81	33.55		25.702	229.9	.307	
200			2.42	2.16	64.	.00	28.0		125	10.07	33.80		26.025	199.2	.362	
250			2.52						150	9.90	33.99		26.202	182.4	.410	
300			1.90						200	9.41	34.15		26.408	162.9	.498	
400			.87						250	8.06	34.07		26.556	148.7	.578	
500			.55						300	7.58	34.14		26.682	136.9	.652	
									400	6.98	34.28		26.876	118.4	.785	
									500	6.03	34.29		27.010	105.7	.903	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100070

LATITUDE 30 20.5N			LONGITUDE 119 27.5W			MO/DAY/YR 06/12/69		MESSENGER TIME 0235 GMT		BOTTOM 7738M	WIND 350	SPEED 05KT	WEATHER 2	DOMINANT WAVES 300 03 04		
Z	T	S	O2	PO4	SIC3	NC2	NC3	CT	Z	T	S	O2	SIGT	DT	DD	
0			5.78	.27	3.	.00	.3		0	17.35	33.44		24.257	367.5	0	
10			5.81	.27	3.	.00	.3		10	16.73	33.41		24.380	355.7	.036	
30			6.46	.32	4.	.00	.6		20	14.62	33.36		24.812	314.6	.070	
50			6.04	.53	7.	.00	3.1		30	14.07	33.38		24.943	302.1	.101	
80			5.07	.99	18.	.00	6.2		50	13.20	33.36		25.105	286.7	.160	
110			3.77	1.50	34.	.00	20.4		75	11.82	33.44		25.434	255.4	.228	
150			2.99	1.90	52.	.00	27.0		100	10.32	33.56		25.796	221.0	.288	
200			3.45	1.87	63.	.00	27.9		125	9.69	33.81		26.097	192.4	.340	
250			2.68						150	9.21	33.92		26.261	176.8	.387	
300			2.22						200	8.19	33.99		26.474	156.5	.472	
400			.86						250	7.51	34.04		26.613	143.3	.549	
500			.48						300	6.75	34.04		26.719	133.3	.620	
									400	6.34	34.20		26.899	116.2	.750	
									500	5.91	34.32		27.049	102.0	.865	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100080

LATITUDE 29 59.0N			LONGITUDE 120 06.0W			MO/DAY/YR 06/11/69		MESSENGER TIME 2055 GMT		BOTTOM 3926M	WIND 310	SPEED 06KT	WEATHER 2	DOMINANT WAVES 310 02 04		
Z	T	S	O2	PO4	SIO3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0			5.75	.45	3.	.00	.0		0	17.59	33.35		24.131	379.5	0	
10			5.72	.67	3.	.00	.0		10	17.25	33.37		24.227	370.3	.038	
30			5.93	.45	2.	.00	.0		20	16.25	33.34		24.437	350.3	.074	
50			6.16	.40	3.	.00	.0		30	15.95	33.43		24.574	337.3	.108	
80			6.02	.51	6.	.14	1.1		50	14.15	33.15		24.749	320.5	.174	
110			5.45	1.01	11.	.00	7.3		75	13.47	33.30		25.005	296.2	.252	
150			4.77	1.34	23.	.00	14.2		100	12.25	33.31		25.252	272.7	.323	
200			3.52	2.11	50.	.00	24.4		125	10.85	33.32		25.517	247.5	.389	
250			3.02						150	10.04	33.59		25.867	214.3	.447	
300			2.91						200	9.13	33.95		26.297	173.4	.546	
400			1.22						250	8.24	34.02		26.490	155.0	.630	
500			.75						300	7.38	34.02		26.616	143.1	.707	
									400	6.67	34.15		26.816	124.1	.846	
									500	5.85	34.23		26.985	108.1	.968	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

100090

LATITUDE 29 40.5N			LONGITUDE 120 47.0W		MO/DAY/YR 06/11/69		MESSENGER TIME 1408 GMT		BOTTOM 3926M	WIND 350	SPEED 03KT	WEATHER 2	DOMINANT WAVES 330 02 04		
Z	T	S	O2	PO4	SIG3	NC2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0			5.69	.35	3.	.00	.0		0	17.64	33.32		24.096	382.8	0
10			5.77	.29	2.	.00	.0		10	17.56	33.52		24.268	366.4	.037
30			5.77	.29	2.	.00	.0		20	17.07	33.64		24.476	346.6	.073
50			5.82	.27	2.	.00	.0		30	17.06	33.67		24.501	344.2	.108
80			5.32	.37	3.	.00	.0		50	16.82	33.72		24.596	335.2	.176
110			4.26	.64	9.	.03	4.0		75	15.80	33.67		24.791	316.5	.258
150			3.25	1.20	25.	.00	15.0		100	13.69	33.56		25.160	281.4	.333
200			2.28	1.84	48.	.00	24.0		125	12.00	33.57		25.500	249.1	.400
250			1.99						150	10.75	33.62		25.767	223.7	.460
300			1.44						200	9.53	33.92		26.209	181.8	.563
400			.65						250	9.29	34.17		26.443	159.5	.651
500			.59						300	8.40	34.15		26.568	147.7	.730
									400	6.79	34.14		26.792	126.4	.873
									500	6.25	34.26		26.958	110.6	.998

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103030

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 06.0N		116 24.5W		06/13/69	1306 GMT				71M	320	06KT	2	320 01 04		
Z	T	S	OZ	PO4	SIC3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	CD
									0	14.48	33.57		25.003	296.4	0
									10	14.45	33.56		25.002	296.5	.030
									20	12.92	33.58		25.331	265.2	.058
									30	11.46	33.60		25.624	237.3	.083
									50	10.32	33.65		25.866	214.4	.128

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103035

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 56.0N		116 45.0W		06/13/69	1533 GMT				1849M	310	18KT	0	290 05 04		
Z	T	S	OZ	PO4	SIC3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	CD
									0	16.57	33.54		24.516	342.7	0
									10	16.56	33.55		24.526	341.8	.034
									20	16.56	33.54		24.519	342.5	.069
									30	16.55	33.54		24.521	342.3	.103
									50	13.40	33.48		25.157	281.7	.165
									75	11.44	33.47		25.527	246.5	.232
									100	10.41	33.60		25.811	219.5	.291
									125	9.58	33.84		26.138	188.5	.342
									150	9.27	33.94		26.267	176.3	.388
									200	8.31	34.05		26.503	153.8	.473
									250	8.03	34.16		26.631	141.6	.548
									300	7.42	34.17		26.728	132.5	.619
									400	6.81	34.30		26.915	114.7	.748
									500	6.15	34.33		27.026	104.2	.864

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103040

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 46.0N		117 04.5W		06/13/69	1811 GMT				2042M	330	20KT	2	330 05 04		
Z	T	S	OZ	PO4	SIC3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	CD
									0	16.62	33.56		24.520	342.4	0
									10	16.59	33.56		24.527	341.7	.034
									20	16.58	33.56		24.529	341.5	.068
									30	16.07	33.48		24.585	336.2	.102
									50	13.00	33.44		25.207	277.0	.164
									75	11.14	33.45		25.566	242.8	.229
									100	10.33	33.68		25.887	212.3	.287
									125	9.95	33.87		26.100	192.1	.338
									150	9.27	33.97		26.290	174.0	.384
									200	8.76	34.14		26.504	153.7	.468
									250	7.94	34.17		26.653	139.6	.543
									300	7.54	34.22		26.750	130.4	.613
									400	6.54	34.27		26.928	113.5	.740
									500	6.04	34.33		27.040	102.9	.855

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103050

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 27.0N		117 44.0W		06/13/69	2330 GMT				2697M	310	18KT	2	310 05 04		
Z	T	S	OZ	PO4	SIC3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	CD
									0	16.61	33.50		24.476	346.5	0
									10	16.61	33.49		24.469	347.3	.035
									20	16.51	33.48		24.484	345.8	.069
									30	15.65	33.46		24.664	328.7	.103
									50	14.01	33.41		24.979	298.7	.166
									75	11.96	33.45		25.415	257.2	.236
									100	10.79	33.62		25.760	224.4	.297
									125	9.85	33.78		26.046	197.2	.350
									150	9.48	33.97		26.256	177.3	.397
									200	8.44	34.07		26.499	154.2	.482
									250	8.19	34.20		26.639	140.9	.558
									300	8.04	34.28		26.724	132.9	.629
									400	6.71	34.23		26.874	118.6	.760
									500	6.04	34.29		27.009	105.8	.879

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

103060

LATITUDE 30 06.5N			LONGITUDE 118 25.0W		MO/DAY/YR 06/14/69	MESSENGER TIME 0500 GMT				BOTTOM 3358M	WIND 330	SPEED 08KT	WEATHER 2	DOMINANT WAVES 340 06 04		
Z	T	S	02	PO4	SIC3	NC2	NC3	DT	Z	T	S	02	SIGT	DT	CD	
									0	16.84	33.48		24.408	353.1	0	
									10	16.84	33.48		24.408	353.1	.035	
									20	16.64	33.45		24.431	350.8	.071	
									30	16.23	33.48		24.548	339.7	.105	
									50	15.11	33.38		24.722	323.2	.172	
									75	12.03	33.40		25.363	262.1	.245	
									100	10.57	33.60		25.783	222.2	.306	
									125	9.89	33.78		26.040	197.8	.359	
									150	9.49	33.90		26.200	182.6	.408	
									200	8.85	34.07		26.435	160.3	.495	
									250	8.36	34.16		26.582	146.4	.574	
									300	7.87	34.20		26.686	136.4	.647	
									400	6.66	34.19		26.849	121.0	.781	
									500	6.27	34.30		26.987	107.9	.902	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103070

LATITUDE 29 48.0N			LONGITUDE 119 04.0W		MO/DAY/YR 06/14/69	MESSENGER TIME 0915 GMT				BOTTOM 3452M	WIND 280	SPEED 05KT	WEATHER 2	DOMINANT WAVES 340 06 04		
Z	T	S	02	PO4	SIC3	NC2	NC3	DT	Z	T	S	02	SIGT	DT	CD	
									0	16.94	33.35		24.285	364.8	0	
									10	16.94	33.34		24.277	365.5	.037	
									20	16.92	33.34		24.282	365.1	.073	
									30	15.43	33.26		24.559	338.6	.108	
									50	13.70	33.12		24.819	313.9	.174	
									75	12.72	33.25		25.115	285.7	.249	
									100	12.03	33.37		25.340	264.3	.318	
									125	11.24	33.45		25.548	244.5	.383	
									150	10.07	33.64		25.900	211.0	.440	
									200	8.63	33.97		26.392	164.4	.536	
									250	7.89	34.04		26.558	148.6	.616	
									300	7.43	34.09		26.664	138.5	.690	
									400	6.72	34.21		26.857	120.3	.825	
									500	6.06	34.29		27.006	106.1	.944	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

103080

LATITUDE 29 27.0N			LONGITUDE 119 43.0W		MO/DAY/YR 06/14/69	MESSENGER TIME 1345 GMT				BOTTOM 3642M	WIND 320	SPEED 12KT	WEATHER 2	DOMINANT WAVES 350 04 09		
Z	T	S	02	PO4	SIC3	NC2	NC3	DT	Z	T	S	02	SIGT	DT	CD	
									0A	17.34A	33.34A		24.183	374.5	0	
									10	17.34	33.34		24.183	374.5	.037	
									20	16.40	33.30		24.372	356.5	.074	
									30	16.28	33.28		24.384	355.3	.110	
									50	14.87	33.16		24.605	334.3	.179	
									75	14.27	33.15		24.724	322.9	.261	
									100	13.08	33.27		25.060	291.0	.339	
									125	11.80	33.41		25.414	257.3	.408	
									150	11.13	33.61		25.692	230.9	.470	
									200	9.32	33.90		26.227	180.0	.574	
									250	8.48	34.03		26.462	157.8	.661	
									300	8.56	34.24		26.613	143.3	.739	
									400	7.32	34.27		26.821	123.7	.878	
									500	6.29	34.31		26.992	107.4	1.000	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107032

LATITUDE 30 26.0N			LONGITUDE 116 11.0W		MO/DAY/YR 06/15/69	MESSENGER TIME 1802 GMT				BOTTOM 464M	WIND 270	SPEED 01KT	WEATHER 4	DOMINANT WAVES 270 01 05		
Z	T	S	02	PO4	SIC3	NC2	NC3	DT	Z	T	S	02	SIGT	DT	CD	
									0	13.78	33.57		25.149	282.5	0	
									10	13.55	33.57		25.196	278.0	.028	
									20	13.02	33.53		25.272	270.8	.056	
									30	11.80	33.46		25.453	253.6	.082	
									50	10.66	33.57		25.744	225.9	.130	
									75	9.72	33.81		26.092	192.9	.183	
									100	9.56	33.99		26.258	177.1	.229	
									125	9.90	34.29		26.435	160.3	.272	
									150	10.00	34.37		26.481	156.0	.312	
									200	9.52	34.43		26.608	143.9	.389	
									250	9.18	34.44		26.671	137.8	.462	
									300	8.72	34.43		26.737	131.6	.532	
									400	7.87	34.40		26.843	121.5	.665	

A) THE DATA FOR THIS LOWERING WAS NOT RECORDED BY THE DIGITAL DATA LOGGER. THE VALUES HAVE BEEN DIGITIZED FROM THE ANALOG RECORDING ADJUSTED BY COMPARISON WITH OTHER LOWERINGS.

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107035

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 21.5N		116 22.5W		06/15/69	1613 GMT				1812M	300	12KT	4	290 03 04		
Z	T	S	OZ	PD4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	16.39	33.55		24.565	338.0	0
									10	16.33	33.54		24.572	337.5	.034
									20	16.26	33.54		24.588	335.9	.068
									30	15.26	33.47		24.758	319.7	.100
									50	12.97	33.39		25.174	280.1	.161
									75	10.92	33.42		25.582	241.3	.226
									100	9.97	33.78		26.026	199.1	.282
									125	9.37	33.90		26.219	180.8	.330
									150	9.23	34.03		26.343	169.0	.374
									200	8.36	34.03		26.480	156.0	.457
									250	7.58	34.08		26.635	141.3	.533
									300	7.78	34.23		26.723	132.9	.604
									400	6.73	34.26		26.895	116.7	.734
									500	6.19	34.32		27.013	105.4	.852

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107040

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 05.5N		116 40.5W		06/15/69	1314 GMT				2933M	300	12KT	2	300 04 04		
Z	T	S	OZ	PD4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	16.66	33.54		24.495	344.7	0
									10	16.66	33.54		24.495	344.7	.034
									20	16.66	33.54		24.495	344.7	.069
									30	16.66	33.54		24.495	344.7	.104
									50	14.18	33.34		24.889	307.2	.169
									75	12.04	33.36		25.330	265.2	.241
									100	10.69	33.52		25.700	230.1	.303
									125	10.02	33.74		25.987	202.8	.358
									150	9.65	33.88		26.158	186.6	.407
									200	9.15	34.20		26.489	155.2	.495
									250	8.54	34.25		26.624	142.3	.571
									300	7.86	34.25		26.727	132.6	.642
									400	6.52	34.26		26.923	114.0	.771
									500	5.92	34.33		27.056	101.4	.885

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107050

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 49.0N		117 21.0W		06/15/69	0754 GMT				2697M	290	10KT	2	280 06 05		
Z	T	S	OZ	PD4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	16.75	33.32		24.306	362.7	0
									10	16.73	33.32		24.311	362.3	.036
									20	16.15	33.29		24.421	351.8	.072
									30	15.25	33.21		24.561	338.5	.107
									50	14.48	33.17		24.695	325.7	.173
									75	13.42	33.38		25.076	289.4	.251
									100	11.78	33.44		25.441	254.7	.319
									125	10.68	33.51		25.694	230.6	.380
									150	9.98	33.74		25.993	202.2	.435
									200	9.61	34.07		26.312	171.9	.530
									250	9.84	34.41		26.539	150.4	.613
									300	9.39	34.45		26.645	140.4	.689
									400	7.94	34.34		26.786	127.0	.829
									500	6.80	34.37		26.972	109.4	.955

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107060

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME				BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 32.0N		118 01.5W		06/15/69	0259 GMT				3738M	310	12KT	2	310 04 06		
Z	T	S	OZ	PD4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	16.79	33.38		24.343	359.3	0
									10	16.77	33.38		24.347	358.8	.036
									20	16.43	33.30		24.365	357.2	.072
									30	15.29	33.19		24.536	340.8	.107
									50	14.85	33.23		24.663	328.8	.174
									75	13.74	33.12		24.811	314.7	.255
									100	12.33	33.20		25.152	282.2	.330
									125	10.79	33.40		25.589	240.6	.396
									150	10.12	33.66		25.908	210.4	.453
									200	9.20	33.99		26.317	171.5	.550
									250	8.42	34.09		26.518	152.4	.633
									300	8.52	34.30		26.667	138.3	.708
									400	7.24	34.31		26.864	119.6	.843
									500	6.16	34.30		27.001	106.6	.963

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107070

LATITUDE 29 11.0N			LONGITUDE 118 41.0W		MO/DAY/YR 06/14/69		MESSENGER TIME 2233 GMT		BOTTOM 2981M	WIND 310	SPEED 12KT	WEATHER 2	DOMINANT WAVES 310 04 06		
Z	T	S	02	P04	S103	NC2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.24	33.28		24.161	376.6	0
									10	17.24	33.28		24.161	376.6	.038
									20	16.83	33.23		24.219	371.1	.075
									30	15.88	33.23		24.436	350.4	.111
									50	14.63	33.12		24.625	332.4	.180
									75	14.03	33.18		24.797	316.0	.261
									100	12.47	33.13		25.071	289.9	.337
									125	11.12	33.33		25.476	251.3	.406
									150	10.59	33.59		25.772	223.2	.466
									200	9.17	33.88		26.236	179.2	.568
									250	8.39	34.05		26.491	155.0	.654
									300	7.69	34.08		26.619	142.8	.731
									400	6.65	34.17		26.835	122.4	.869
									500	6.14	34.29		26.996	107.1	.990

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

107080

LATITUDE 28 51.5N			LONGITUDE 119 20.0W		MO/DAY/YR 06/14/69		MESSENGER TIME 1817 GMT		BOTTOM 3738M	WIND 320	SPEED 12KT	WEATHER 2	DOMINANT WAVES 310 05 05		
Z	T	S	02	P04	S103	NC2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.39	33.34		24.171	375.6	0
									10	17.39	33.34		24.171	375.6	.038
									20	17.26	33.53		24.347	358.9	.074
									30	16.96	33.61		24.479	346.3	.110
									50	16.82	33.68		24.565	338.1	.178
									75	16.00	33.64		24.723	323.0	.261
									100	14.98	33.59		24.911	305.1	.341
									125	12.31	33.53		25.411	257.6	.412
									150	10.83	33.71		25.823	218.4	.472
									200	9.79	33.97		26.204	182.2	.574
									250	9.01	34.16		26.480	156.0	.661
									300	8.50	34.20		26.591	145.4	.739
									400	7.59	34.30		26.806	125.1	.880
									500	6.58	34.34		26.978	108.8	1.004

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

110035

LATITUDE 29 46.0N			LONGITUDE 116 00.0W			MO/DAY/YR 06/16/69		MESSENGER TIME 0045 GMT		BOTTOM 1206M	WIND 330	SPEED 11KT	WEATHER 2	DOMINANT WAVES 270 01 05		
Z	T	S	02	P04	S103	NC2	NO3	DT	Z	T	S	02	SIGT	DT	DD	
0			5.76	.27	2.	.00	.0		0	16.54	33.53		24.516	342.8	0	
10			5.82	.32	2.	.00	.2		10	16.52	33.53		24.520	342.4	.034	
30			5.98	.32	2.	.00	.0		20	16.30	33.52		24.563	338.3	.068	
50			5.55	.69	10.	.18	5.9		30	15.54	33.49		24.711	324.1	.102	
80			4.32	1.25	23.	.01	15.7		50	12.78	33.42		25.235	274.3	.162	
110			3.58	1.74	40.	.00	25.9		75	11.20	33.52		25.609	238.7	.226	
150			3.22	2.00	54.	.00	29.7		100	9.87	33.71		25.989	202.7	.282	
250			1.58						125	9.42	33.85		26.172	185.2	.331	
300			1.07						150	9.11	33.96		26.308	172.3	.376	
400			.60						200	9.27	34.20		26.469	157.0	.460	
500			.51						250	8.76	34.32		26.645	140.4	.537	
									300	8.27	34.29		26.697	135.4	.608	
									400	7.59	34.34		26.837	122.1	.743	
									500	6.62	34.35		26.980	108.5	.865	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

110040

LATITUDE 29 36.5N			LONGITUDE 116 19.5W		MO/DAY/YR 06/16/69		MESSENGER TIME 0410 GMT		BOTTOM 2509M	WIND 330	SPEED 11KT	WEATHER 2	DOMINANT WAVES 270 01 05		
Z	T	S	02	P04	S103	NC2	NO3	DT	Z	T	S	02	SIGT	DT	DD
0			5.75	.27	2.	.00	.0		0	16.54	33.49		24.485	345.7	0
10			5.84	.27	2.	.00	.0		10	16.54	33.49		24.485	345.7	.035
30			5.78	.35	2.	.00	.0		20	16.53	33.49		24.487	345.5	.069
50			6.07	.35	3.	.00	.0		30	16.44	33.46		24.485	345.7	.104
80			5.82	.53	8.	.15	2.9		50	14.75	33.33		24.761	319.4	.171
110			4.78	.99	19.	.00	12.0		75	12.56	33.34		25.216	276.2	.245
150			3.56	1.71	45.	.00	27.1		100	11.16	33.44		25.555	243.9	.311
200			3.04	2.00	62.	.00	30.5		125	10.15	33.62		25.871	213.8	.369
250			2.22						150	9.43	33.83		26.155	186.9	.420
300			1.60						200	8.83	34.03		26.407	162.9	.509
400			.99						250	8.46	34.14		26.551	149.3	.589
500			.41						300	7.83	34.20		26.692	135.9	.662
									400	6.82	34.23		26.859	120.1	.796
									500	6.65	34.34		26.968	109.7	.917

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

110050

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
29 17.0N		116 59.5W		06/16/69		1012 GMT		3263M		300		12KT		2		290 03 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0A			5.87	.59	3.	.00	.0		0A	16.57A	33.42A		24.424	351.5	0		
10			5.76	.35	3.	.00	.0		10	16.57	33.42		24.424	351.5	.035		
30			5.78	.32	3.	.00	.0		20	16.57	33.42		24.424	351.5	.070		
55			6.10	.32	4.	.00	.0		30	14.80	33.31		24.735	321.9	.104		
80			5.59	.53	7.	.00	2.9		50	14.25	33.32		24.859	310.1	.168		
110			4.63	.69	20.	.00	13.1		75	12.98	33.46		25.226	275.2	.241		
150			3.66	1.55	38.	.00	23.4		100	11.35	33.51		25.574	242.0	.306		
200			2.11	2.32	63.	.00	32.2		125	10.75	33.77		25.884	212.6	.364		
250			1.09						150	10.01	33.87		26.090	193.1	.415		
300			.73						200	10.12	14.25		26.367	166.8	.507		
400			.58						250	9.95	14.45		26.551	149.2	.588		
500			.46						300	9.53	14.47		26.637	141.1	.664		
									400	8.35	14.43		26.794	126.2	.804		
									500	6.90	14.38		26.966	109.9	.930		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

110060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
28 56.5N		117 39.0W		06/16/69		1448 GMT		3642M		320		11KT		2		320 04 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			5.74	.35	3.	.00	1.1		0	16.93	33.44		24.356	358.0	0		
10			5.79	.29	2.	.00	1.8		10	16.93	33.44		24.356	358.0	.036		
30			5.72	.27	3.	.00	1.5		20	16.93	33.44		24.356	358.0	.072		
50			5.94	.32	3.	.00	.8		30	16.93	33.45		24.364	357.3	.108		
80			6.14	.37	3.	.00	.5		50	15.91	33.46		24.606	334.2	.177		
150			4.24	1.28	29.	.03	16.4		75	14.91	33.42		24.796	316.1	.259		
200			1.98	2.24	62.	.00	25.9		100	13.69	33.43		25.060	291.0	.335		
250			1.49						125	11.36	33.51		25.573	242.2	.402		
300			1.25						150	10.25	33.65		25.878	213.2	.460		
400			.62						200	10.44	34.25		26.311	172.0	.558		
500			.54						250	9.93	14.34		26.469	157.0	.643		
									300	9.22	14.32		26.571	147.3	.722		
									400	8.46	14.43		26.777	127.8	.866		
									500	7.35	14.41		26.926	113.6	.995		

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

110070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
28 36.5N		118 18.0W		06/16/69		2000 GMT		3738M		290		09KT		2		290 03 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			5.73	.35	3.	.00	.0		0	17.03	33.27		24.203	372.6	0		
10			5.72	.32	3.	.00	.0		10	16.95	33.27		24.221	370.8	.037		
30			5.92	.32	3.	.00	.0		20	16.51	33.22		24.285	364.7	.074		
50			6.08	.35	3.	.00	.0		30	15.89	33.23		24.434	350.6	.110		
80			6.34	.29	3.	.00	.0		50	14.63	33.17		24.664	328.7	.178		
110			5.71	.56	8.	.00	1.9		75	14.09	33.18		24.785	317.1	.259		
150			4.94	.88	19.	.00	8.7		100	12.60	33.10		25.022	294.5	.336		
200			3.18	2.14	56.	.00	22.8		125	11.62	33.38		25.424	256.3	.406		
250			2.82						150	10.81	33.62		25.757	224.7	.467		
300			2.06						200	9.39	33.94		26.247	178.1	.569		
400			.88						250	8.64	34.06		26.460	157.9	.655		
500			.38						300	8.13	34.15		26.609	143.8	.733		
									400	7.48	34.24		26.775	128.1	.875		
									500	6.89	34.39		26.975	109.0	1.000		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

110080

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
28 16.5N		118 57.5W		06/17/69		0030 GMT		4022M		310		04KT		2		300 04 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0			5.70	.40	3.	.00	.0		0	17.54	33.27		24.082	384.2	0		
10			5.71	.37	3.	.00	.0		10	17.25	33.26		24.143	378.3	.038		
30			5.80	.24	3.	.00	.0		20	17.19	33.59		24.409	352.9	.075		
50			5.78	.32	3.	.00	.0		30	17.07	33.65		24.484	345.8	.110		
80			6.07	.32	3.	.00	.0		50	16.78	33.68		24.575	337.2	.178		
110			5.31	.56	8.	.00	2.0		75	15.81	33.64		24.766	318.9	.261		
150			4.43	1.09	23.	.00	11.5		100	14.55	33.56		24.980	298.5	.339		
200			3.72	1.74	43.	.00	19.8		125	12.58	33.51		25.343	264.0	.410		
250			2.77						150	10.97	33.61		25.721	228.1	.472		
300			1.86						200	9.64	33.93		26.198	182.7	.576		
400			.87						250	8.97	34.11		26.447	159.1	.664		
500			.71						300	8.40	34.22		26.622	142.5	.742		
									400	7.55	34.29		26.804	125.3	.882		
									500	7.07	34.39		26.950	111.4	1.008		

A) THE DATA FOR THIS LOWERING WAS NOT RECORDED BY THE DIGITAL DATA LOGGER. THE VALUES HAVE BEEN DIGITIZED FROM THE ANALOG RECORDING ADJUSTED BY COMPARISON WITH OTHER LOWERINGS.

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

113030

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
29 21.0N		115 18.0W		06/18/69	0535 GMT		63M	310	12KT		290 02 09				
Z	T	S	02	PC4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	12.90A	33.68A		25.412	257.5	0
									10	11.50A	33.76A		25.741	226.2	.024
									20	11.24	33.88		25.881	212.8	.046
									30	11.13	33.91		25.925	208.7	.067
									50	11.05	33.94		25.962	205.2	.109

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

113035

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
29 11.5N		115 38.0W		06/18/69	0245 GMT		1336M	310	10KT	2	290 02 09				
Z	T	S	02	PC4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	15.64	33.51		24.705	324.8	0
									10	15.12	33.42		24.750	320.5	.032
									20	13.56	33.52		25.156	281.8	.062
									30	12.10	33.39		25.342	264.1	.090
									50	10.50	33.53		25.741	226.2	.139
									75	10.07	33.90		26.103	191.8	.192
									100	10.17	34.10		26.241	178.7	.238
									125	10.21	34.21		26.320	171.2	.283
									150	10.07	34.29		26.406	163.0	.325
									200	10.28	34.51		26.541	150.2	.405
									250	9.75	34.50		26.624	142.3	.481
									300	9.22	34.49		26.704	134.8	.553
									400	8.12	34.44		26.837	122.1	.688
									500	6.63	34.36		26.987	107.9	.810

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

113040

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 58.0N		115 58.5W		06/17/69	2347 GMT		1670M	310	08KT	2	290 02 09				
Z	T	S	02	PC4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.41	33.55		24.326	360.8	0
									10	16.81	33.50		24.430	351.0	.036
									20	16.74	33.53		24.469	347.2	.071
									30	16.10	33.39		24.509	343.4	.105
									50	14.19	33.25		24.818	314.0	.171
									75	12.13	33.33		25.290	269.1	.244
									100	10.65	33.57		25.746	225.7	.307
									125	9.98	33.83		26.064	195.5	.360
									150	9.80	34.11		26.312	172.0	.407
									200	9.18	34.16		26.453	158.6	.491
									250	8.96	34.31		26.605	144.1	.569
									300	9.02	34.44		26.697	135.4	.641
									400	7.81	34.37		26.829	122.9	.777
									500	6.65	34.34		26.968	109.7	.900

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

113050

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 40.0N		116 36.0W		06/17/69	1845 GMT		1546M	300	04KT	2	300 03 05				
Z	T	S	02	PC4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.46	33.61		24.360	357.6	0
									10	17.01	33.59		24.452	348.9	.035
									20	16.76	33.58		24.503	344.0	.070
									30	14.68	33.38		24.814	314.3	.103
									50	12.58	33.38		25.243	273.6	.162
									75	10.94	33.46		25.610	238.7	.226
									100	10.13	33.77		25.991	202.4	.282
									125	9.64	33.89		26.167	185.7	.331
									150	9.28	34.05		26.351	168.3	.376
									200	8.99	34.20		26.515	152.7	.458
									250	8.47	34.21		26.604	144.2	.534
									300	8.05	34.27		26.715	133.7	.606
									400	7.17	34.33		26.889	117.2	.738
									500	6.34	34.36		27.025	104.3	.855

A) THE VALUES ABOVE 20 METERS WERE DIGITIZED FROM THE ANALOG RECORDING.

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

113060

LATITUDE 28 21.0N			LONGITUDE 117 15.5W			MO/DAY/YR 06/17/69		MESSENGER TIME 1420 GMT		BOTTOM 3738M	WIND 330	SPEED 04KT	WEATHER 2	DOMINANT WAVES 290 01 05		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	16.96	33.63		24.494	344.8	0	
									10	16.88	33.63		24.513	343.0	.034	
									20	16.73	33.62		24.540	340.4	.069	
									30	16.42	33.57		24.574	337.2	.103	
									50	11.71	33.45		25.462	252.7	.162	
									75	10.56	33.67		25.840	216.8	.221	
									100	9.97	33.81		26.050	196.9	.273	
									125	9.51	33.90		26.196	182.9	.321	
									150	9.59	34.13		26.362	167.2	.365	
									200	9.23	34.23		26.499	154.2	.448	
									250	8.88	34.31		26.618	142.9	.524	
									300	7.92	34.27		26.734	131.9	.595	
									400	7.41	34.39		26.902	115.9	.725	
									500	6.45	34.37		27.019	104.9	.842	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

113070

LATITUDE 28 02.0N			LONGITUDE 117 55.0W			MO/DAY/YR 06/17/69		MESSENGER TIME 0950 GMT		BOTTOM 3452M	WIND 290	SPEED 06KT	WEATHER 2	DOMINANT WAVES 00		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	17.60	33.56		24.289	364.4	0	
									10	17.57	33.55		24.288	364.5	.036	
									20	17.42	33.54		24.316	361.8	.073	
									30	16.81	33.53		24.453	348.8	.108	
									50	16.14	33.52		24.600	334.8	.177	
									75	13.27	33.39		25.114	285.8	.255	
									100	11.41	33.60		25.633	236.4	.321	
									125	11.02	33.92		25.952	206.1	.377	
									150	11.09	34.19		26.149	187.4	.427	
									200	10.79	34.35		26.327	170.5	.518	
									250	10.53	34.42		26.428	161.0	.604	
									300	10.38	34.50		26.516	152.6	.685	
									400	8.80	34.41		26.709	134.3	.836	
									500	7.39	34.36		26.882	117.9	.970	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

113080

LATITUDE 27 42.0N			LONGITUDE 118 33.5W			MO/DAY/YR 06/17/69		MESSENGER TIME 0534 GMT		BOTTOM 3738M	WIND 320	SPEED 04KT	WEATHER 2	DOMINANT WAVES 300 04 05		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	17.95	33.54		24.189	374.0	0	
									10	17.56	33.55		24.291	364.2	.037	
									20	17.27	33.49		24.314	362.0	.073	
									30	15.99	33.47		24.595	335.2	.108	
									50	15.89	33.48		24.626	332.3	.175	
									75	15.29	33.59		24.843	311.6	.256	
									100	13.61	33.53		25.153	282.1	.331	
									125	11.33	33.44		25.524	246.8	.398	
									150	10.59	33.70		25.858	215.1	.456	
									200	9.58	34.06		26.310	172.2	.555	
									250	8.90	34.14		26.482	155.8	.639	
									300	8.75	34.30		26.631	141.7	.716	
									400	7.86	34.36		26.813	124.4	.855	
									500	6.81	34.36		26.962	110.2	.980	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

117030

LATITUDE 28 48.0N			LONGITUDE 114 56.5W			MO/DAY/YR 06/18/69		MESSENGER TIME 0950 GMT		BOTTOM 106M	WIND 290	SPEED 08KT	WEATHER 1	DOMINANT WAVES 290 02 09		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	15.42	33.52		24.761	319.4	0	
									10	14.57	33.38		24.838	312.1	.032	
									20	12.97	33.46		25.228	275.0	.061	
									30	12.53	33.62		25.438	255.0	.088	
									50	11.45	33.72		25.719	228.3	.136	
									75	10.80	34.08		26.116	190.6	.189	

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

117035

LATITUDE	LCNGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 38.0N	115 16.0W	06/19/69	0410 GMT	187M	310	10KT	0	300 02 05
Z	T	S	DT	Z	T	S	DT	DD
				0	15.90	33.52		24.654 329.6 0
				10	15.68	33.51		24.696 325.7 .033
				20	14.13	33.48		25.007 296.0 .064
				30	12.55	33.43		25.287 269.4 .092
				50	11.32	33.78		25.789 221.6 .142
				75	10.91	33.93		25.980 203.5 .195
				100	10.95	34.19		26.174 185.0 .244
				125	10.79	34.29		26.281 174.9 .290
				150	10.72	34.38		26.363 167.1 .333

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

117040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 28.0N	115 35.5W	06/19/69	1004 GMT	948M	310	12KT	2	300 03 04
Z	T	S	DT	Z	T	S	DT	DD
				0	16.39	33.53		24.550 339.5 0
				10	16.39	33.53		24.550 339.5 .034
				20	15.91	33.49		24.629 332.0 .068
				30	15.69	33.50		24.686 326.6 .101
				50	15.30	33.44		24.726 322.7 .166
				75	12.43	33.49		25.357 262.7 .239
				100	11.08	33.81		25.856 215.3 .300
				125	10.95	34.15		26.143 188.0 .351
				150	10.85	34.29		26.270 175.9 .397
				200	10.49	34.46		26.466 157.3 .482
				250	10.11	34.49		26.555 148.9 .561
				300	9.83	34.52		26.626 142.1 .637
				400	8.71	34.48		26.778 127.8 .779
				500	7.15	34.42		26.963 110.2 .906

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

117050

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
28 08.0N	116 15.0W	06/19/69	1547 GMT	4213M	310	10KT	2	300 05 04
Z	T	S	DT	Z	T	S	DT	DD
				0	16.60	33.59		24.548 339.7 0
				10	16.60	33.59		24.548 339.7 .034
				20	16.25	33.54		24.590 335.7 .068
				30	15.75	33.56		24.718 323.5 .101
				50	12.82	33.50		25.288 269.2 .160
				75	11.39	33.80		25.792 221.3 .222
				100	10.45	33.95		26.076 194.3 .274
				125	10.04	34.09		26.256 177.3 .322
				150	10.04	34.23		26.365 166.9 .365
				200	9.44	34.30		26.520 152.2 .447
				250	8.85	34.34		26.646 140.2 .522
				300	8.21	34.33		26.737 131.6 .593
				400	7.51	34.40		26.896 116.6 .723
				500	6.62	34.40		27.020 104.8 .840

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

117060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
27 49.0N	116 54.0W	06/19/69	1903 GMT	3642M	330	08KT	2	330 03 05
Z	T	S	DT	Z	T	S	DT	DD
				0	17.29	33.63		24.416 352.3 0
				10	17.17	33.60		24.422 351.7 .035
				20	15.81	33.56		24.705 324.8 .069
				30	13.32	33.59		25.258 272.1 .099
				50	11.24	33.58		25.649 235.0 .150
				75	10.34	33.74		25.932 208.0 .206
				100	10.15	33.94		26.120 190.2 .256
				125	9.57	34.03		26.288 174.2 .302
				150	9.26	34.11		26.401 163.5 .345
				200	8.28	34.13		26.570 147.4 .424
				250	8.69	34.36		26.687 136.4 .497
				300	8.02	34.33		26.766 128.9 .566
				400	7.06	34.34		26.912 115.0 .694
				500	6.25	34.36		27.037 103.2 .809

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

117070

LATITUDE 27 29.5N			LONGITUDE 117 32.5W		MO/DAY/YR 06/19/69		MESSENGER TIME 2325 GMT		BOTTOM 3926M	WIND 340	SPEED 10KT	WEATHER 1	DOMINANT WAVES 340 03 05		
Z	T	S	O2	PC4	SIO3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
									0	17.83	33.57		24.241	369.0	0
									10	17.77	33.58		24.263	366.9	.037
									20	17.71	33.58		24.277	365.5	.073
									30	16.56	33.54		24.519	342.5	.109
									50	16.09	33.52		24.611	333.7	.177
									75	14.68	33.46		24.876	308.5	.258
									100	12.29	33.44		25.345	263.9	.330
									125	10.90	33.75		25.842	216.6	.390
									150	10.61	33.99		26.079	194.0	.442
									200	10.24	34.26		26.354	168.0	.535
									250	9.82	34.40		26.534	150.8	.617
									300	9.10	34.38		26.637	141.1	.693
									400	7.80	34.36		26.822	123.5	.831
									500	6.54	34.33		26.975	109.0	.955

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

117080

LATITUDE 27 08.0N			LONGITUDE 118 10.5W		MO/DAY/YR 06/20/69		MESSENGER TIME 0337 GMT		BOTTOM 4022M	WIND 300	SPEED 08KT	WEATHER 1	DOMINANT WAVES 340 01 05		
Z	T	S	O2	PC4	SIO3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
									0	18.30	33.58		24.133	379.2	0
									10	18.13	33.58		24.175	375.2	.038
									20	16.96	33.55		24.433	350.7	.074
									30	16.39	33.53		24.550	339.5	.109
									50	16.70	33.72		24.624	332.5	.176
									75	15.59	33.59		24.777	317.9	.258
									100	13.25	33.51		25.211	276.6	.333
									125	12.14	33.54		25.451	253.8	.400
									150	10.52	33.74		25.901	211.0	.459
									200	9.85	34.16		26.342	169.1	.555
									250	9.46	34.31		26.524	151.8	.638
									300	8.93	34.37		26.657	139.2	.713
									400	7.87	34.38		26.828	123.0	.851
									500	6.98	34.40		26.971	109.5	.975

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

118039

LATITUDE 28 18.5N			LONGITUDE 115 23.5W		MO/DAY/YR 06/19/69		MESSENGER TIME 0653 GMT		BOTTOM 242M	WIND 330	SPEED 09KT	WEATHER 1	DOMINANT WAVES 00		
Z	T	S	O2	PC4	SIO3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
									0	16.94	33.65		24.514	342.9	0
									10	16.34	33.64		24.646	330.4	.034
									20	15.89	33.61		24.725	322.8	.066
									30	14.21	33.66		25.129	284.4	.097
									50	12.25	33.69		25.546	244.7	.150
									75	10.96	33.90		25.947	206.6	.207
									100	10.77	34.14		26.168	185.7	.256
									125	10.69	34.30		26.306	172.5	.302
									150	10.57	34.37		26.382	165.3	.345
									200	10.14	34.46		26.527	151.6	.426

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

118039

LATITUDE 28 18.5N			LONGITUDE 115 23.5W		MO/DAY/YR 06/19/69		MESSENGER TIME 0734 GMT		BOTTOM 242M	WIND 330	SPEED 09KT	WEATHER 1	DOMINANT WAVES 00		
Z	T	S	O2	PC4	SIO3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
1	16.94	33.642	6.12	.19	5.	.00	.0	343.5							
13	16.67	33.649	6.29	.19	6.	.00	.0	337.0							
25	15.27	33.656	6.45	.24	7.	.00	.0	306.3							
37	13.64		4.97	.80	18.	.28	5.3								
48	12.76		4.07	1.20	25.	.35	10.2								
61	11.40		2.55	1.87	40.	.00	19.4								
71	10.97	33.884	2.16	2.03	44.	.00	21.0	207.9							
91	10.85		1.53	2.30	56.	.00	23.0								
121	10.77		1.53	2.30	61.	.00	23.5								
150	10.58		1.08	2.54	68.	.02	25.1								
181	10.31		.79	2.67	78.	.00	25.6								
210	10.13	34.420	.69	2.75	81.	.07	25.8	154.4							
230	10.08	34.442	.65					151.9							

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

119033

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 19.0N			114 52.5W			06/19/69		0012 GMT		108M	300	17KT	0	300 02 05		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0A	17.20A	33.72A		24.506	343.7	0	
									10	16.45	33.69		24.659	329.2	.034	
									20	14.70	33.46		24.872	308.9	.066	
									30	13.83	33.56		25.131	284.2	.095	
									50	11.04	33.86		25.902	210.9	.145	
									75	10.64	34.15		26.198	182.7	.195	
									100	10.65	34.42		26.407	163.0	.238	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

119033

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 19.0N			114 52.5W			06/19/69		0039 GMT		108M	300	17KT	0	300 2 5		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
0	17.01	33.705	6.09	.27	9.	.00	.1	340.5	0	17.01	33.705	6.09	24.540	340.5	0	
12	16.43	33.700	6.05	.29	9.	.00	.0	328.0	10	16.60	33.709	6.06	24.638	331.1	.034	
27	14.17	33.562	6.33	.37	5.	.01	.6	290.7	20	15.28	33.604	6.20	24.856	310.4	.066	
37	13.14	33.718	5.00	1.01	23.	.18	8.4	259.2	30	13.89	33.602	6.08	25.151	282.3	.095	
47	11.17	33.860	1.99	2.00	43.	.00	22.6	213.1	50	11.02	33.920	2.03	25.951	206.2	.144	
60	10.54	33.977	2.15	2.06	51.	.00	22.9	193.8	75	10.59	34.133	1.14	26.193	183.2	.193	
74	10.59	34.122	1.15	2.46	66.	.00	26.2	184.0	100	10.65	34.406	.79	26.396	164.0	.237	
100	10.65	34.406	.79	2.72	76.	.30	26.1	164.0								

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120045

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 43.0N			115 33.0W			06/23/69		2230 GMT		1856M	310	18KT	2	290 04 07		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	17.76	33.65		24.319	361.6	0	
									10	17.76	33.65		24.319	361.6	.036	
									20	17.74	33.65		24.324	361.1	.072	
									30	16.78	33.59		24.506	343.7	.108	
									50	12.59	33.51		25.341	264.2	.169	
									75	11.06	33.78		25.836	217.1	.229	
									100	10.63	34.05		26.123	189.9	.281	
									125	10.16	34.12		26.259	177.0	.327	
									150	10.18	34.28		26.380	165.5	.371	
									200	9.78	34.35		26.502	153.9	.452	
									250	9.23	34.39		26.624	142.3	.529	
									300	9.22	34.44		26.665	138.5	.602	
									400	7.77	34.40		26.858	120.1	.737	
									500	6.80	34.38		26.980	108.6	.859	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120045

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 43.0N			115 33.0W			06/23/69		2325 GMT		1856M	310	18KT	2	290 04 07		
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
0		33.640	5.67	.35	4.	.00	.0									
10	17.76	33.639	5.72	.35	4.	.00	.0	362.4								
29	16.38	33.590	6.10	.35	5.	.00	.0	334.9								
39	14.15		5.89	.48	8.	.00	.0									
49			4.54	1.07	17.	.05	8.1									
63	11.14		4.65	1.12	19.	.00	9.1									
74			3.25	1.66	33.	.00	15.9									
97	10.81	34.029	2.49	2.08	45.	.00	20.3	194.5								
120			2.64	2.11	50.	.00	21.0									
140	9.98		2.38	2.27	56.	.00	22.4									
168			1.63	2.64	67.	.00	25.1									
199	9.81		1.17	2.78	74.	.00	25.9									
227			1.19													
268	8.95		.93													
325			.69													
401	7.78	34.402	.39					120.1								
474	7.31	34.431	.33					111.5								
551	6.38	34.371	.55					104.0								

A) NO DATA WAS RECORDED BY THE DIGITAL DATA LOGGER. THE VALUES AT STANDARD DEPTHS HAVE BEEN DIGITIZED FROM THE ANALOG RECORDING AND THE SAME CALIBRATION CORRECTION APPLIED.

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120050

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 33.0N			115 52.5W			06/23/69		1332 GMT			4309M	310	16KT	2	310 05 08		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	17.69	33.67		24.351	358.5	0		
									10	17.70	33.67		24.348	358.7	.036		
									20	17.68	33.65		24.338	359.7	.072		
									30	16.90	33.49		24.401	353.7	.108		
									50	14.08	33.44		24.987	297.9	.173		
									75	11.48	33.49		25.535	245.7	.241		
									100	10.86	33.75		25.849	215.9	.300		
									125	10.33	34.05		26.175	185.0	.350		
									150	10.54	34.20		26.255	177.4	.396		
									200	10.08	34.36		26.459	158.0	.482		
									250	9.02	34.34		26.619	142.8	.559		
									300	8.40	34.33		26.708	134.3	.631		
									400	7.59	34.40		26.884	117.7	.763		
									500	6.60	34.41		27.030	103.8	.881		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120050

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 33.0N			115 32.5W			06/23/69		1508 GMT			4309M	310	16KT	2	310 05 08		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0		33.653	5.64	.35	5.	.00	.0										
10	17.68	33.653	5.73	.35	5.	.00	.0	359.5									
30		33.509	6.06	.35	3.	.00	.0										
39	14.72		6.15	.35	4.	.00	.0										
49			6.09	.35	4.	.00	.0										
63	12.60		4.75	.96	16.	.00	6.5										
81			4.59	1.07	19.	.00	8.9										
98	10.76	33.719	3.76	1.71	30.	.00	15.5	216.5									
125			2.29	2.08	47.	.00	22.4										
141	10.83		1.90	2.24	54.	.00	24.4										
170			1.76	2.30	61.	.00	25.4										
200	9.96		1.36	2.56	70.	.00	27.9										
227			1.20														
268	8.90		.97														
323			.64														
399	7.63	34.377	.41					119.9									
472	7.01	34.393	.29					110.4									
549	6.11	34.363	.29					101.2									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120055

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 23.0N			116 12.0W			06/22/69		2315 GMT			3700M	330	15KT	2	330 05 08		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	17.19	33.59		24.409	352.9	0		
									10	17.15	33.58		24.411	352.7	.035		
									20	17.07	33.57		24.422	351.7	.071		
									30	16.20	33.48		24.555	339.0	.105		
									50	14.48	33.52		24.965	300.0	.169		
									75	11.82	33.48		25.465	252.5	.239		
									100	10.41	33.70		25.889	212.1	.297		
									125	10.33	33.95		26.097	192.4	.348		
									150	9.93	34.08		26.267	176.3	.395		
									200	9.56	34.25		26.461	157.8	.481		
									250	8.83	34.26		26.587	145.9	.559		
									300	8.31	34.32		26.714	133.8	.631		
									400	7.31	34.34		26.877	118.3	.763		
									500	6.40	34.37		27.025	104.3	.882		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120055

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 23.0N			116 12.0W			06/22/69		2347 GMT			3700M	330	15KT	2	330 05 08		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0		33.581	5.72														
10	17.13	33.585	5.83	.29	4.	.00	.0	351.9									
30		33.489	5.98	.29	3.	.00	.0										
39	15.15		6.18	.35	5.	.00	.0										
49	14.37		6.06	.32	6.	.29	.0										
64	12.45		5.30	.69	12.	.04	4.5										
79			4.75	1.12	20.	.00	10.8										
98	10.45	33.699	3.78	1.50	32.	.00	17.3	212.9									
120			2.93	1.92	44.	.00	22.2										
142	10.05		2.57	1.98	52.	.00	24.1										
171			2.04	2.27	63.	.00	26.2										
201	9.46		1.65	2.46	72.	.00	28.1										
232			1.28														
270	8.52		1.17														
331			.62														
404	7.11	34.344	.41					115.4									
479	6.47	34.357	.32					106.1									
557	5.98	34.375	.25					98.8									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120060

LATITUDE		LCNGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
27 13.0N		116 30.5W		06/22/69		1301 GMT		3738M		340		15KT		2		360 05 04	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	16.95	33.52		24.412	352.6	0		
									10	16.94	33.52		24.415	352.4	.035		
									20	16.94	33.52		24.415	352.4	.071		
									30	16.63	33.54		24.502	344.1	.105		
									50	15.28	33.46		24.746	320.9	.172		
									75	12.36	33.25		25.185	279.1	.248		
									100	11.01	33.48		25.613	238.4	.313		
									125	10.25	33.75		25.955	205.8	.369		
									150	9.89	33.89		26.125	189.7	.419		
									200	9.18	34.14		26.437	160.1	.508		
									250	9.19	34.36		26.607	143.9	.586		
									300	8.78	34.41		26.712	134.0	.659		
									400	7.26	34.34		26.884	117.6	.790		
									500	6.65	34.39		27.008	105.9	.909		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
27 13.0N		116 30.5W		06/22/69		1333 GMT		3738M		340		15KT		2		360 05 04	
Z	T	S	O2	PO4	SIC3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	CD		
0	16.95	33.497	5.71	.32	3.	.00	.0	354.3									
10	16.94	33.504	5.77	.32	3.	.00	.0	353.6									
30		33.524	5.79	.35	3.	.00	.0										
39	16.57		5.84	.43	4.	.00	.0										
50			6.01	.38	3.	.00	.0										
64	13.86		6.06	.40	4.	.00	.0										
77			5.32	.45	11.	.00	3.9										
98	11.16		4.82	.98	18.	.06	7.9										
120			3.41	1.71	36.	.00	16.8										
142	9.92		3.41	1.63	41.	.04	18.6										
171			2.99	1.98	51.	.00	21.6										
201	9.19		2.48	2.19	65.	.00	24.1										
230			1.94														
270	9.08		.87														
330			.74														
404	7.21	34.326	.49					118.0									
478	6.76	34.364	.32					109.3									
557	6.13	34.371	.27					100.9									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120070

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
26 53.0N		117 10.0W		06/21/69		1750 GMT		3738M		350		20KT		2		350 05 05	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	17.80	33.58		24.256	367.6	0		
									10	17.80	33.58		24.256	367.6	.037		
									20	17.80	33.58		24.256	367.6	.074		
									30	16.67	33.54		24.493	344.9	.109		
									50	16.07	33.54		24.631	331.8	.177		
									75	14.89	33.47		24.838	312.1	.258		
									100	12.37	33.45		25.337	264.6	.331		
									125	10.82	33.65		25.778	222.6	.392		
									150	10.44	33.89		26.031	198.6	.446		
									200	9.47	34.11		26.367	166.8	.539		
									250	9.48	34.37		26.568	147.7	.620		
									300	8.76	34.33		26.653	139.6	.694		
									400	7.79	34.38		26.839	121.9	.831		
									500	6.75	34.39		26.994	107.2	.953		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120070

LATITUDE			LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
26 53.0N			117 10.0W		06/22/69		0313 GMT		3738M		330		14KT		2		300 05 04	
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD			
0		33.557	5.66	.27	2.	.00	.0											
10	17.79	33.555	5.73	.27	2.	.00	.0	369.2										
30		33.529	5.90	.27	2.	.00	.0											
40	16.39		5.96	.29	2.	.00	.0											
50			5.99	.29	2.	.00	.0											
64	15.44		5.97	.29	3.	.00	.0											
78			6.02	.37	6.	.00	.0											
99	12.35	33.423	5.25	.69	11.	.01	4.6	266.2										
125			4.07	1.25	27.	.00	13.7											
143	10.84		2.93	1.68	40.	.00	20.4											
174			3.01	1.84	50.	.00	23.2											
202	9.35		2.49	2.06	61.	.00	25.8											
235			2.15															
272	9.18		.95															
332			.75															
405	7.60	34.362	.47					120.6										
479	6.87	34.381	.29					109.4										
557	6.11	34.374	.26					100.4										

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120080

LATITUDE 26 32.5N				LONGITUDE 117 49.0W				MO/DAY/YR 06/21/69		MESSENGER TIME 1250 GMT		BOTTOM 4022M	WIND 350	SPEED 17KT	WEATHER 2	DOMINANT WAVES 350 03 04	
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD		
0	17.93	33.57							0	17.93	33.57		24.216	371.3		0	
10	17.92	33.57							10	17.92	33.57		24.219	371.1		.037	
20	17.10	33.49							20	17.10	33.49		24.354	358.2		.074	
30	16.63	33.50							30	16.63	33.50		24.472	347.0		.109	
50	16.42	33.49							50	16.42	33.49		24.513	343.1		.178	
75	15.61	33.61							75	15.61	33.61		24.788	316.9		.261	
100	13.66	33.49							100	13.66	33.49		25.112	286.0		.337	
125	11.51	33.54							125	11.51	33.54		25.568	242.6		.404	
150	10.58	33.67							150	10.58	33.67		25.836	217.2		.462	
200	9.79	34.07							200	9.79	34.07		26.282	174.8		.562	
250	9.37	34.27							250	9.37	34.27		26.508	153.4		.646	
300	8.72	34.34							300	8.72	34.34		26.667	138.3		.722	
400	7.84	34.38							400	7.84	34.38		26.832	122.6		.859	
500	6.84	34.40							500	6.84	34.40		26.990	107.6		.981	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120080

LATITUDE 26 32.5N				LONGITUDE 117 49.0W				MO/DAY/YR 06/21/69		MESSENGER TIME 1324 GMT		BOTTOM 4022M	WIND 350	SPEED 17KT	WEATHER 2	DOMINANT WAVES 350 03 04	
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD		
0	17.89	33.554	5.64	.32	3.	.00	.6	371.5	0	17.89	33.554	5.64	24.214	371.5		0	
12	17.88	33.551	5.68	.29	2.	.00	.0	371.5	10	17.88	33.552	5.67	24.214	371.5		.037	
24	16.73	33.495	5.88	.37	3.	.00	.0	349.5	20	17.13	33.512	5.81	24.365	357.2		.074	
36	16.51	33.502	5.92	.32	3.	.00	.0	344.2	30	16.62	33.514	5.90	24.484	345.8		.109	
47	16.61	33.595	5.90	.35	3.	.00	.0	339.6	50	16.48	33.589	5.90	24.574	337.3		.177	
59	16.02	33.557	5.91	.32	3.	.00	.2	329.5	75	15.33	33.578	5.83	24.825	313.3		.259	
70	15.77	33.593	5.90	.35	3.	.00	.2	321.5	100	12.90	33.493	5.35	25.268	271.2		.333	
88	13.92	33.522	5.58	.48	6.	.08	.7	288.7	125	11.31	33.513	4.70	25.583	241.2		.398	
122	11.46	33.502	4.81	.93	17.	.00	8.8	244.5	150	10.48	33.660	3.83	25.846	216.2		.455	
152	10.44	33.985U	3.77	1.50	32.	.00	17.9		200	9.72	34.071	2.71	26.294	173.6		.555	
171			3.48	1.71	42.	.00	22.3		250	9.30	34.290	1.76	26.535	150.8		.638	
202	9.70	34.085	2.66	2.08	55.	.00	26.7	172.2	300	8.72	34.340	.90	26.667	138.3		.713	
231			2.24						400	7.61	34.385	.51	26.869	119.1		.848	
271	9.12		1.23						500	6.77	34.395	.27	26.995	107.1		.968	
331	8.38		.74														
406	7.55		.50														
479	6.94	34.388	.27					109.8									
557	6.31	34.406	.26					100.5									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120090

LATITUDE 26 13.0N				LONGITUDE 118 27.0W				MO/DAY/YR 06/20/69		MESSENGER TIME 2240 GMT		BOTTOM 4022M	WIND 340	SPEED 05KT	WEATHER 2	DOMINANT WAVES 340 02 05	
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD		
0									0	19.40	34.09		24.245	368.6		0	
10									10	19.32	34.10		24.273	365.9		.037	
20									20	19.30	34.14		24.308	362.5		.073	
30									30	19.07	34.17		24.390	354.8		.109	
50									50	18.65	34.21		24.526	341.8		.179	
75									75	17.96	34.09		24.606	334.2		.264	
100									100	15.37	33.77		24.964	300.1		.344	
125									125	12.27	33.61		25.480	251.0		.414	
150									150	11.25	33.74		25.771	223.3		.474	
200									200	9.83	34.09		26.291	173.9		.575	
250									250	9.07	34.23		26.525	151.7		.659	
300									300	8.82	34.35		26.659	139.0		.734	
400									400	7.84	34.38		26.832	122.6		.871	
500									500	6.88	34.40		26.984	108.2		.994	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

120090

LATITUDE 26 13.0N				LONGITUDE 118 27.0W				MO/DAY/YR 06/20/69		MESSENGER TIME 2323 GMT		BOTTOM 4022M	WIND 340	SPEED 05KT	WEATHER 2	DOMINANT WAVES 320 02 05	
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD		
0		34.080	5.54														
10	19.31	34.083	5.46					366.9									
29		34.155	5.55														
39	18.72		5.56	.27	3.	.00	.3										
49			5.60	.29	3.	.00	.3										
64	18.33		5.60	.29	3.	.00	.3										
81			5.57	.29	3.	.02	.3										
99	16.05	33.85	5.45	.37	4.	.00	.3	308.1									
126			4.84	.75	13.	.00	5.8										
144	11.46		4.27	1.12	23.	.00	11.9										
175			3.52	1.55	35.	.00	18.6										
203	9.77		2.89	1.98	54.	.00	24.0										
233			2.48														
271	9.06		1.55														
330			.83														
403	7.93		.52														
477	7.15	34.357	.33					114.9									
556	6.50	34.413	.27					102.3									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

123037

LATITUDE			LONGITUDE		MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 24.0N			114 40.0W		06/24/69	1457 GMT			69M	300	04KT	2	270 02 07		
Z	T	S	02	PO4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	12.68	33.91		25.633	236.5	0
									10	12.10	33.95		25.776	222.9	.023
									20	11.57	34.01		25.922	209.0	.045
									30	11.33	34.05		25.997	201.9	.065
									50	11.02	34.14		26.123	189.9	.105

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

123042

LATITUDE			LONGITUDE		MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
27 14.0N			114 59.0W		06/24/69	1727 GMT			1577M	100	01KT	2	290 01 04		
Z	T	S	02	PO4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.64	33.65		24.348	358.8	0
									10	17.57	33.65		24.365	357.2	.036
									20	17.12	33.65		24.472	347.0	.071
									30	15.84	33.52		24.667	328.3	.105
									50	13.84	33.43		25.029	293.9	.167
									75	12.10	33.56		25.474	251.6	.236
									100	10.87	33.84		25.917	209.5	.294
									125	10.53	34.15		26.218	180.9	.343
									150	10.62	34.30		26.319	171.3	.388
									200	9.45	34.22		26.456	158.3	.473
									250	9.42	34.36		26.570	147.5	.551
									300	9.08	34.42		26.672	137.8	.625
									400	8.22	34.47		26.846	121.3	.761
									500	6.90	34.40		26.982	108.4	.884

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

123050

LATITUDE			LONGITUDE		MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 58.0N			115 31.0W		06/24/69	2200 GMT			3642M	300	06KT	2	300 02 06		
Z	T	S	02	PO4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.80	33.60		24.271	366.1	0
									10	17.65	33.58		24.292	364.1	.037
									20	17.59	33.59		24.314	362.0	.073
									30	17.46	33.55		24.315	362.0	.109
									50	15.58	33.46		24.680	327.2	.178
									75	13.61	33.39		25.045	292.3	.256
									100	12.47	33.59		25.426	256.1	.325
									125	11.22	33.66		25.714	228.7	.387
									150	10.54	33.93		26.045	197.3	.441
									200	10.22	34.31		26.396	164.0	.533
									250	9.62	34.38		26.552	149.1	.613
									300	9.24	34.44		26.662	138.8	.688
									400	8.17	34.43		26.822	123.6	.826
									500	6.57	34.37		27.003	106.4	.948

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

123060

LATITUDE			LONGITUDE		MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 38.5N			116 09.0W		06/25/69	0225 GMT			3832M	330	06KT	2	250 03 05		
Z	T	S	02	PO4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	17.68	33.61		24.307	362.6	0
									10	17.66	33.60		24.305	362.9	.036
									20	17.54	33.60		24.334	360.1	.072
									30	17.36	33.55		24.338	359.7	.109
									50	16.26	33.52		24.572	337.4	.179
									75	14.50	33.48		24.930	303.4	.259
									100	12.49	33.42		25.291	269.0	.331
									125	11.09	33.64		25.722	228.0	.394
									150	10.31	33.84		26.015	200.2	.448
									200	9.91	34.21		26.371	166.3	.542
									250	9.50	34.37		26.564	148.0	.623
									300	9.25	34.44		26.660	138.9	.697
									400	8.09	34.42		26.826	123.2	.835
									500	6.91	34.39		26.972	109.3	.958

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

127034

LATITUDE			LONGITUDE		MO/DAY/YR	MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 55.0N			114 06.5W		06/25/69	1906 GMT			84M	210	01KT	2	300 01 04		
Z	T	S	02	PO4	SI03	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD
									0	14.72	33.82		25.144	283.0	0
									10	14.06	33.78		25.253	272.6	.028
									20	12.95	33.76		25.464	252.6	.054
									30	12.45	33.76		25.561	243.3	.079
									50	11.12	33.89		25.911	210.0	.124
									75	10.78	34.06		26.104	191.7	.175

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

127040

LATITUDE 26 44.0N			LONGITUDE 114 30.0W			MO/DAY/YR 06/25/69		MESSENGER TIME 1547 GMT			BOTTOM 3263M	WIND 10	SPEED 02KT	WEATHER 2	DOMINANT WAVES 280 10 08		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD		
									0	17.45	33.65		24.393	354.4	0		
									10	17.27	33.61		24.406	353.3	.035		
									20	14.97	33.52		24.859	310.0	.069		
									30	15.12	33.60		24.888	307.3	.100		
									50	12.63	33.55		25.364	262.0	.157		
									75	11.13	33.68		25.746	225.7	.218		
									100	10.78	33.92		25.995	202.1	.272		
									125	10.54	34.13		26.201	182.5	.321		
									150	9.98	34.19		26.344	168.9	.365		
									200	10.31	34.46		26.497	154.4	.448		
									250	10.63	34.61		26.558	148.6	.526		
									300	9.83	34.53		26.634	141.4	.602		
									400	8.37	34.47		26.823	123.5	.741		
									500	7.48	34.44		26.931	113.2	.867		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

127050

LATITUDE 26 22.0N			LONGITUDE 115 09.5W			MO/DAY/YR 06/25/69		MESSENGER TIME 1044 GMT			BOTTOM 4309M	WIND 300	SPEED 08KT	WEATHER 2	DOMINANT WAVES 310 01 04		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD		
									0	18.15	33.78		24.323	361.2	0		
									10	18.16	33.78		24.320	361.4	.036		
									20	18.17	33.81		24.341	359.5	.072		
									30	18.17	33.82		24.348	358.7	.108		
									50	18.18	34.13		24.582	336.4	.178		
									75	17.24	34.00		24.711	324.2	.261		
									100	14.51	33.73		25.120	285.3	.338		
									125	12.46	33.86		25.637	236.1	.404		
									150	11.76	34.02		25.894	211.7	.461		
									200	10.36	34.22		26.302	172.9	.559		
									250	9.68	34.30		26.480	156.0	.643		
									300	9.01	34.32		26.605	144.1	.721		
									400	7.76	34.35		26.820	123.7	.861		
									500	6.99	34.41		26.977	108.9	.985		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

127060

LATITUDE 26 04.0N			LONGITUDE 115 45.0W			MO/DAY/YR 06/25/69		MESSENGER TIME 0645 GMT			BOTTOM 4022M	WIND 290	SPEED 08KT	WEATHER 2	DOMINANT WAVES 310 01 04		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD		
									0	18.42	34.04		24.454	348.6	0		
									10	18.43	34.04		24.452	348.9	.035		
									20	18.43	34.03		24.444	349.6	.070		
									30	18.43	34.04		24.452	348.9	.105		
									50	18.42	34.04		24.454	348.6	.175		
									75	18.00	34.13		24.627	332.2	.261		
									100	16.84	33.91		24.736	321.8	.343		
									125	14.10	33.71		25.191	278.5	.419		
									150	11.98	33.85		25.721	228.1	.483		
									200	10.61	34.27		26.297	173.4	.585		
									250	9.83	34.32		26.470	156.9	.670		
									300	9.38	34.36		26.576	146.9	.749		
									400	7.92	34.33		26.781	127.5	.893		
									500	6.98	34.38		26.955	111.0	1.019		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130030

LATITUDE 26 29.0N			LONGITUDE 113 29.0W			MO/DAY/YR 06/26/69		MESSENGER TIME 0120 GMT			BOTTOM 76M	WIND 300	SPEED 05KT	WEATHER 2	DOMINANT WAVES 300 01 04		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD		
									0	16.16	33.61		24.664	328.7	0		
									10	14.50	33.59		25.014	295.3	.031		
									20	13.50	33.70		25.307	267.5	.059		
									30	12.42	33.60		25.444	254.5	.086		
									50	11.43	33.73		25.730	227.2	.134		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130030

LATITUDE 26 29.0N			LONGITUDE 113 29.0W			MO/DAY/YR 06/26/69		MESSENGER TIME 0146 GMT			BOTTOM 76M	WIND 300	SPEED 05KT	WEATHER 2	DOMINANT WAVES 300 01 04		
Z	T	S	02	P04	S103	NC2	NC3	DT	Z	T	S	02	SIGT	DT	DD		
0	15.99	33.60	6.07	.32	4.	.00	.0	325.7	0	15.99	33.60	6.07	24.695	325.7	0		
20	13.43	33.55	5.50	.53	8.	.08	3.1	277.1	10	14.61	33.59	5.91	24.991	297.6	.031		
30	12.44	33.58	4.84	.85	15.	.10	8.6	256.3	20	13.43	33.55	5.50	25.205	277.1	.060		
40	12.20	33.59	4.61	1.04	17.	.12	10.7	251.2	30	12.44	33.58	4.84	25.424	256.3	.087		
49	11.56	33.69	3.94	1.31	25.	.06	17.1	232.4	50	11.50	33.69	3.91	25.687	231.4	.136		

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130040

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
26 07.0N			114 07.0W			06/26/69		0635 GMT		2322M		270		06KT		1		00		
Z	T	S	C2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	CD					
									0	17.04	33.73		24.552	339.3	0					
									10	16.65	33.72		24.635	331.4	.034					
									20	16.40	33.72		24.693	325.9	.066					
									30	15.70	33.70		24.837	312.2	.098					
									50	12.41	33.85		25.639	235.9	.153					
									75	11.32	33.96		25.929	208.3	.209					
									100	10.64	34.01		26.090	193.1	.260					
									125	10.19	34.15		26.277	175.3	.307					
									150	9.86	34.25		26.411	162.6	.350					
									200	9.60	34.41		26.579	146.6	.429					
									250	8.58	34.31		26.665	138.4	.502					
									300	8.23	34.40		26.789	126.7	.571					
									400	7.53	34.43		26.916	114.6	.698					
									500	6.85	34.44		27.020	104.8	.815					

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130040

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
26 07.0N			114 07.0W			06/26/69		0730 GMT		2322M		270		06KT		1		00	
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD				
0		33.72	5.90	.37	2.	.00	.5												
12	16.61	33.72	5.90	.40	1.	.00	.5	330.5											
31		33.72	5.80	.56	4.	.03	.9												
41	13.34		4.23	1.20	20.	.41	8.3												
52			2.95	1.71	33.	.07	17.6												
66	11.45		2.60	1.79	35.	.00	19.4												
75			2.34	1.95	43.	.00	21.2												
98	10.80	34.02	2.47	1.90	47.	.00	21.1	195.0											
120			2.25	2.06	58.	.00	23.7												
142	10.05		1.98	2.24	64.	.00	24.9												
168			1.60	2.38	77.	.00	26.6												
201	9.58		.93	2.62	84.	.00	28.5												
223			.92																
269	8.43		.95																
330			.62																
402	7.50	34.434	.38					113.9											
476	7.06	34.431	.38					108.2											
553	6.32	34.423	.30					99.3											

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130050

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 47.0N			114 47.0W			06/26/69		1300 GMT		3690M	330	05KT	2	340 03 06		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	17.88	33.62		24.267	366.5	0	
									10	17.83	33.65		24.302	363.2	.037	
									20	17.84	33.66		24.307	362.7	.073	
									30	18.07	33.87		24.411	352.8	.109	
									50	17.89	34.05		24.592	335.5	.178	
									75	16.25	33.76		24.758	319.7	.260	
									100	14.44	33.72		25.127	284.6	.336	
									125	11.96	33.75		25.647	235.1	.402	
									150	10.96	33.89		25.940	207.3	.458	
									200	10.00	34.22		26.364	167.0	.554	
									250	9.37	34.28		26.516	152.6	.636	
									300	8.94	34.37		26.655	139.4	.711	
									400	7.64	34.36		26.846	121.3	.848	
									500	6.98	34.42		26.986	108.0	.970	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

130050

LATITUDE			LONGITUDE			MO/DAY/YR			MESSENGER TIME			BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
25 47.0N			114 47.0W			06/26/69			1342 GMT			7690M		330		05KT		2		340 03 06		
Z	T	S	O2	P04	S103	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD							
0		33.603	5.68																			
10	17.82	33.625	5.64					364.8														
30		33.850	5.62																			
40	18.07		5.62																			
50			5.62	.24	2.	.00	.2															
63	17.45		5.59	.25	2.	.00	.2															
78			5.54	.32	4.	.00	.3															
97	14.16	33.719	4.70	.64	11.	.04	4.4	279.0														
120			4.09	1.12	21.	.03	11.8															
140	10.96		3.67	1.35	30.	.01	17.0															
166			2.74	1.87	46.	.01	23.7															
198	9.96		2.27	2.08	57.	.01	26.4															
224			1.97																			
267	9.25		1.47																			
319			.86																			
396	7.63	34.354	.59					121.6														
468	7.15	34.419	.37					110.3														
546	6.40	34.423	.29					100.3														

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

130060

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 29.0N			115 24.0W			06/26/69		1727 GMT		3832M	330	02KT	2	330 03 06		
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD	
									0	18.25	33.79		24.306	362.8	0	
									10	18.23	33.79		24.311	362.3	.036	
									20	18.19	33.79		24.321	361.4	.073	
									30	18.17	33.79		24.325	360.9	.109	
									50	17.98	33.76		24.349	358.7	.181	
									75	16.09	33.67		24.726	322.8	.267	
									100	14.67	33.68		25.047	292.2	.344	
									125	12.77	33.70		25.453	253.6	.413	
									150	11.47	33.86		25.824	218.3	.473	
									200	10.99	34.29		26.245	178.3	.574	
									250	10.77	34.55		26.486	155.4	.660	
									300	9.87	34.52		26.619	142.8	.738	
									400	8.55	34.48		26.803	125.4	.879	
									500	7.44	34.46		26.953	111.1	1.005	

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

130060

LATITUDE		LNGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
25 29.0N		115 24.0W		06/26/69		1827 GMT		3832M	330	02KT	2	330 03 06			
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
0		33.772	5.58	.32	3.	.00	.4								
9	18.22	33.771	5.58	.27	3.	.00	.4	363.5							
29		33.773	5.59	.24	3.	.00	.3								
39	18.12		5.58	.27	3.	.00	.3								
49			5.66	.24	3.	.00	.3								
62	16.63		5.83	.27	4.	.00	.2								
81			5.71	.32	4.	.00	.3								
97	14.92	33.672	5.32	.45	7.	.13	1.0	297.9							
126			4.18	1.01	19.	.00	10.5								
141	11.55		3.33	1.44	31.	.00	17.0								
171			2.08	2.08	47.	.00	25.2								
200	10.92		1.61	2.24	59.	.00	27.7								
229			.77												
269	10.16		.55												
331			.40												
403	8.48	34.484	.28					124.1							
477	7.68	34.461	.24					114.4							
557	6.89	34.443	.24					105.1							

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

133025

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
26 04.5N		112 48.0W		06/27/69		1555 GMT		80M	070	10KT	1	270 01 04			
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	17.01	33.88		24.674	327.7	0
									10	16.89	33.89		24.709	324.3	.033
									20	14.25	33.76		25.198	277.8	.063
									30	12.61	33.93		25.662	233.7	.088
									50	12.78	34.38		25.976	203.9	.132
									75	12.48	34.47		26.105	191.6	.182

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

133030

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
25 52.5N		113 08.5W		06/27/69		1309 GMT		229M	330	12KT	1	320 03 05			
Z	T	S	OZ	PO4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	14.80A	34.10A		25.342	264.1	0
									10	13.58A	34.05A		25.560	243.4	.025
									20	13.54	34.09		25.599	239.7	.050
									30	13.23	34.09		25.662	233.7	.073
									50	12.90	34.22		25.829	217.9	.119
									75	11.72	34.26		26.087	193.3	.170
									100	12.30	34.53		26.186	183.9	.218
									125	12.04	34.58		26.275	175.5	.264
									150	11.75	34.59		26.337	169.5	.308
									200	11.33	34.64		26.455	158.4	.392

A) THE VALUES ABOVE 20 METERS WERE DIGITIZED FROM THE ANALOG RECORDING.

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

133040

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 32.0N			113 43.5W			06/27/69		0801 GMT		2886M	310	04KT	1	310 03 05		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	CD	
									0	17.92	33.70		24.318	361.6	0	
									10	17.92	33.70		24.318	361.6	.036	
									20	17.81	33.69		24.337	359.8	.072	
									30	17.06	33.64		24.478	346.3	.108	
									50	16.84	33.80		24.652	329.8	.176	
									75	15.11	33.67		24.944	302.0	.255	
									100	12.21	33.77		25.615	238.1	.323	
									125	11.67	33.99		25.888	212.3	.380	
									150	10.92	34.08		26.094	192.6	.431	
									200	10.66	34.47		26.444	159.5	.521	
									250	10.11	34.51		26.571	147.4	.601	
									300	9.43	34.48		26.662	138.8	.675	
									400	8.22	34.47		26.846	121.3	.812	
									500	6.96	34.43		26.997	107.0	.933	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

133050

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 14.5N			114 24.0W			06/27/69		0350 GMT		3832M	330	05KT	1	330 02 05		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	18.46	33.79		24.254	367.7	0	
									10	18.46	33.79		24.254	367.7	.037	
									20	18.23	33.78		24.303	363.0	.073	
									30	18.19	33.79		24.321	361.4	.110	
									50	18.09	33.78		24.337	359.8	.182	
									75	16.04	33.67		24.737	321.7	.268	
									100	13.78	33.55		25.134	283.9	.344	
									125	11.89	33.66		25.591	240.5	.410	
									150	11.80	34.28		26.088	193.2	.465	
									200	11.05	34.46		26.366	166.8	.557	
									250	10.98	34.62		26.503	153.8	.640	
									300	10.36	34.59		26.590	145.6	.718	
									400	8.79	34.50		26.781	127.5	.862	
									500	7.60	34.46		26.930	113.3	.990	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

133060

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
24 54.5N		115 02.0W		06/26/69		2310 GMT		4022M	290	05KT	2				
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
									0	18.47	33.74		24.213	371.6	0
									10	18.25	33.73		24.260	367.1	.037
									20	18.07	33.72		24.297	363.7	.074
									30	18.04	33.72		24.304	363.0	.110
									50	17.84	33.72		24.353	358.3	.182
									75	15.94	33.66		24.752	320.3	.268
									100	13.86	33.66		25.202	277.4	.343
									125	11.79	33.72		25.656	234.3	.408
									150	11.33	33.96		25.927	208.5	.464
									200	10.49	34.28		26.326	170.6	.561
									250	10.27	34.45		26.496	154.4	.644
									300	9.84	34.49		26.601	144.5	.722
									400	8.46	34.46		26.801	125.6	.864
									500	7.48	34.47		26.955	110.9	.990

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137023

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 34.0N			112 19.0W			06/27/69		2148 GMT		76M	270	11KT	1	280 01 04		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	19.00	34.07		24.332	360.3	0	
									10	17.28	33.93		24.648	330.2	.035	
									20	13.50	33.99		25.530	246.2	.063	
									30	13.09	34.16		25.744	225.9	.087	
									50	12.94	34.40		25.960	205.4	.130	

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137023

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 34.0N		112 19.0W		06/27/69		2216 GMT			76M	270	11KT	1	280 01 04		
Z	T	S	O2	PO4	SIG3	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD
0	19.02	34.058	6.34	.37	20.	.00	.0	361.7	0	19.02	34.058	6.34	24.317	361.7	0
20	13.56	33.968	2.27	1.79	30.	.21	17.7	249.0	10	17.03	33.903	3.87	24.686	326.5	.034
30	13.19	34.146	1.54	2.14	39.	.00	22.8	228.8	20	13.56	33.968	2.27	25.501	249.0	.063
40	12.85	34.245	1.42	2.14	42.	.00	23.8	215.1	30	13.19	34.146	1.54	25.714	228.8	.087
49	12.95	34.379	.79	2.67	56.	.00	26.0	207.1	50	12.95	34.379	.79	25.942	207.1	.131

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137030

LATITUDE 25 20.0N			LONGITUDE 112 46.0W		MC/DAY/YR 06/28/69		MESSENGER TIME 0230 GMT		BOTTOM 342M	WIND 280	SPEED 13KT	WEATHER 1	DOMINANT WAVES 280 01 04		
Z	T	S	OZ	PC4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	16.98	33.85		24.658	329.3	0
									10	16.05	33.75		24.796	316.1	.032
									20	15.17	33.77		25.008	295.9	.063
									30	13.32	33.75		25.382	260.3	.091
									50	13.02	34.16		25.758	224.5	.139
									75	12.57	34.35		25.994	202.1	.193
									100	12.30	34.47		26.140	188.3	.243
									125	12.00	34.60		26.298	173.3	.289
									150	11.81	34.63		26.357	167.7	.332
									200	11.39	34.65		26.451	158.7	.416
									250	10.97	34.62		26.505	153.7	.496
									300	10.81	34.63		26.541	150.2	.576

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137030

LATITUDE 25 20.0N			LONGITUDE 112 46.0W		MC/DAY/YR 06/28/69		MESSENGER TIME 0306 GMT		BOTTOM 342M	WIND 280	SPEED 13KT	WEATHER 1	DOMINANT WAVES 280 1 4		
Z	T	S	OZ	PC4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
0		33.808	6.54	.48	14.	.00	.0								
10	16.60	33.800	6.50	.43	13.	.00	.1	324.4							
28		33.823	4.81	.93	21.	.24	7.1								
45	13.05		2.87	1.39	28.	.24	16.7								
59	12.97		1.57	1.92	40.	.00	23.0								
74	12.66		1.05	2.19	48.	.00	25.4								
85			.71	2.32	55.	.00	26.6								
108	12.29	34.506	.51	2.46	58.	.00	27.7	185.5							
133			.29	2.62	65.	.00	27.4								
163	11.74		.23	2.67	68.	.00	27.1								
198			.22	2.78	76.	.00	26.0								
232	11.05	34.618	.14					155.2							
266	10.85	34.617	.11					151.8							
306	10.80	34.615	.10					151.1							

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137040

LATITUDE 25 00.5N			LONGITUDE 113 23.5W		MC/DAY/YR 06/28/69		MESSENGER TIME 0741 GMT		BOTTOM 3169M	WIND 320	SPEED 08KT	WEATHER 1	DOMINANT WAVES 310 03 04		
Z	T	S	OZ	PC4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
									0	18.19	33.74		24.282	365.0	0
									10	17.06	33.75		24.562	338.3	.035
									20	15.43	33.64		24.851	310.9	.068
									30	14.80	33.61		24.965	300.0	.098
									50	13.52	33.77		25.357	262.7	.155
									75	12.76	34.02		25.702	229.9	.217
									100	11.95	34.23		26.021	199.6	.271
									125	11.35	34.35		26.218	180.8	.319
									150	11.24	34.53		26.386	165.0	.363
									200	10.98	34.63		26.511	153.1	.445
									250	10.25	34.59		26.609	143.8	.522
									300	9.73	34.59		26.698	135.4	.594
									400	8.60	34.53		26.834	122.4	.730
									500	7.22	34.46		26.984	108.2	.853

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

137040

LATITUDE 25 00.5N			LONGITUDE 113 23.5W		MC/DAY/YR 06/28/69		MESSENGER TIME 0853 GMT		BOTTOM 3169M	WIND 320	SPEED 08KT	WEATHER 2	DOMINANT WAVES 310 04 05		
Z	T	S	OZ	PC4	SIO3	NC2	NC3	DT	Z	T	S	OZ	SIGT	DT	DD
0		33.712	5.72	.32	6.	.00	.0								
10	17.98	33.709	5.80	.29	6.	.00	.0	362.4							
29		33.675	5.58	.48	10.	.28	1.7								
38	14.27		5.24	.59	10.	.51	2.5								
50			4.63	.80	14.	.08	6.3								
63	13.59		3.22	1.34	25.	.19	14.1								
76			1.95	1.87	37.	.00	21.0								
97	12.08	34.179	1.94	1.98	42.	.00	23.4	205.7							
121			1.59	2.16	51.	.00	25.6								
142	11.36		1.15	2.30	58.	.00	27.5								
167			.67	2.54	64.	.00	28.6								
200	11.02		.43	2.59	68.	.00	28.5								
227			.50												
268	10.07		.34												
327			.28												
403	8.50	34.515	.27					122.1							
477	7.48	34.458	.32					111.8							
555	6.88	34.440	.44					105.2							

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

137050

LATITUDE 24 40.0N			LONGITUDE 114 02.5W			MO/DAY/YR 06/28/69		MESSENGER TIME 1331 GMT			BOTTOM 3832M	WIND 320	SPEED 12KT	WEATHER 1	DOMINANT WAVES 310 05 05		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0									0	17.92	33.62		24.257	367.4	0		
10									10	17.92	33.63		24.265	366.7	.037		
20									20	17.89	33.62		24.264	366.7	.073		
30									30	17.70	33.65		24.333	360.2	.110		
50									50	17.15	33.92		24.671	328.0	.179		
75									75	13.39	33.55		25.213	276.4	.255		
100									100	11.45	33.77		25.758	224.6	.318		
125									125	11.10	33.94		25.953	206.0	.373		
150									150	10.69	34.10		26.151	187.3	.422		
200									200	11.34	34.66		26.468	157.1	.511		
250									250	10.77	34.64		26.556	148.8	.590		
300									300	10.19	34.61		26.635	141.3	.665		
400									400	8.51	34.50		26.824	123.3	.805		
500									500	7.19	34.45		26.981	108.5	.928		

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

137050

LATITUDE 24 40.0N			LONGITUDE 114 02.5W			MO/DAY/YR 06/28/69		MESSENGER TIME 1404 GMT			BOTTOM 3832M	WIND 320	SPEED 12KT	WEATHER 2	DOMINANT WAVES 310 05 05		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0		33.615	5.61	.29	2.	.00	.2										
10	17.91	33.615	5.52	.24	2.	.00	.1	367.6									
29		33.630	5.68	.21	2.	.00	.1										
38	17.67		5.74	.24	2.	.00	.2										
48			5.65	.27	3.	.00	.2										
61	15.56		5.74	.32	3.	.00	.2										
75			5.19	.67	9.	.00	3.5										
93	11.51	33.754	3.65	1.39	28.	.00	15.8	226.8									
114			2.84	1.82	38.	.00	20.9										
134	10.89		2.25	2.11	47.	.00	24.4										
160			1.95	2.32	57.	.00	25.6										
188	11.31		.27	2.91	72.	.00	28.4										
216			.30	2.91	75.	.00	28.1										
252	10.44		.23														
308			.21														
377	8.58	34.498	.27					124.5									
449	7.71	34.468	.24					114.3									
529	6.83	34.442	.23					104.4									

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

137060

LATITUDE 24 20.0N			LONGITUDE 114 40.0W			MO/DAY/YR 06/28/69		MESSENGER TIME 1750 GMT			BOTTOM 3832M	WIND 330	SPEED 08KT	WEATHER 2	DOMINANT WAVES 320 04 04		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0									0	17.96	33.63		24.255	367.6	0		
10									10	17.89	33.63		24.272	366.0	.037		
20									20	17.42	33.61		24.370	356.7	.073		
30									30	17.05	33.60		24.450	349.0	.108		
50									50	16.57	33.64		24.593	335.4	.177		
75									75	15.86	33.68		24.786	317.1	.259		
100									100	14.37	33.60		25.049	292.0	.336		
125									125	11.73	33.69		25.644	235.4	.402		
150									150	11.23	34.05		26.015	200.1	.458		
200									200	11.08	34.49		26.384	165.1	.551		
250									250	10.72	34.61		26.542	150.1	.632		
300									300	9.97	34.57		26.641	140.7	.708		
400									400	8.61	34.49		26.801	125.5	.848		
500									500	7.39	34.44		26.944	112.0	.975		

RV DAVID STARR JORDAN

CALCCFI CRUISE 6906

137060

LATITUDE 24 20.0N			LONGITUDE 114 40.0W			MO/DAY/YR 06/28/69		MESSENGER TIME 1831 GMT			BOTTOM 3832M	WIND 330	SPEED 08KT	WEATHER 2	DOMINANT WAVES 320 06 04		
Z	T	S	O2	PO4	SI03	NC2	NC3	DT	Z	T	S	O2	SIGT	DT	DD		
0		33.617	5.62	.16	3.	.00	.0										
9	17.95	33.622	5.64	.19	3.	.00	.0	368.0									
27		33.592	5.92	.16	3.	.00	.0										
36	16.97		5.82	.16	3.	.00	.0										
45			5.90	.21	4.	.00	.0										
56	16.39		5.88	.27	4.	.00	.0										
69			5.76	.27	4.	.00	.0										
86	14.77	33.627	5.43	.40	6.	.05	.7	298.1									
108			4.61	.67	14.	.00	6.1										
124	12.26		3.97	1.15	22.	.00	11.6										
151			2.89	1.71	38.	.00	20.6										
176	11.38		1.75	2.08	50.	.00	25.3										
200			.79	2.54	63.	.00	28.4										
235	10.92		.41														
292			.26														
352	9.34	34.542	.26					132.8									
420	8.11	34.468	.27					119.9									
495	7.49	34.467	.10					111.3									

RV DAVID STARR JORDAN

CALCOFI CRUISE 6906

TEN METER DATA

			Z	T	S	02	P04	S103	N02	N03	DT
97.029	06/09/69 2230GMT 32 17.5N 117 04.5W BOTTOM 39M WIND 310 10KT WEATHER 1 DOMINANT WAVES 310 04 05		10	12.64	33.595		.29	22.	.13	4.3	259.0
97.030	06/09/69 2305GMT 32 16.0N 117 07.0W BOTTOM 60M WIND 310 10KT WEATHER 2 DOMINANT WAVES 310 04 05		10	16.28 A	33.579		.45	9.	.00	.0	333.6
97.045	06/10/69 0845GMT 31 46.0N 118 08.0W BOTTOM 1849M WIND 310 06KT WEATHER 1 DOMINANT WAVES 310 03 05		10	15.78	33.377		.67	5.	.00	.0	337.6
97.050	06/10/69 1140GMT 31 36.5N 118 29.0W BOTTOM 2509M WIND 280 10KT WEATHER 1 DOMINANT WAVES 300 03 05		10	16.23	33.428		.72	4.	.00	.0	343.6
97.055	06/10/69 1515GMT 31 26.0N 118 50.0W BOTTOM 1206M WIND 330 14KT WEATHER 2 DOMINANT WAVES 330 04 07		10	16.25	33.439		.37	3.	.00	.0	343.2
97.060	06/10/69 1908GMT 31 16.0N 119 10.0W BOTTOM 3737M WIND 280 08KT WEATHER 1 DOMINANT WAVES 290 04 07		10	16.25	33.423		.59	3.	.00	.0	344.4
97.070	06/11/69 0033GMT 30 55.0N 119 50.0W BOTTOM 3545M WIND 300 10KT WEATHER 1 DOMINANT WAVES 310 03 05		10	16.92	33.358		.51	4.	.00	.0	363.9
97.080	06/11/69 0600GMT 30 35.0N 120 31.0W BOTTOM 3926M WIND 310 03KT WEATHER 1 DOMINANT WAVES 310 03 05		10	16.76	33.312		.40	4.	.00	.0	363.7
97.090	06/11/69 1000GMT 30 15.5N 121 10.5W BOTTOM 4403M WIND 310 02KT WEATHER 2 DOMINANT WAVES 000		10	17.48	33.350		.40	3.	.00	.0	377.1
100.029	06/13/69 0740GMT 31 42.0N 116 43.5W BOTTOM 112M WIND 300 09KT WEATHER DOMINANT WAVES 300 05 04		10	10.58	33.615		1.23	31.	.19	16.8	221.3
100.045	06/12/69 1815GMT 31 09.0N 117 46.0W BOTTOM 1298M WIND 300 10KT WEATHER 2 DOMINANT WAVES 300 03 05		10	16.73	33.646		.45	5.	.00	.0	338.6
100.055	06/12/69 1055GMT 30 49.0N 118 27.0W BOTTOM 2790M WIND 340 09KT WEATHER 2 DOMINANT WAVES 340 02 04		10	16.16	33.397		.37	4.	.05	.0	344.3

A) ALTERNATE TEMPERATURE 16.44 DEGREES.

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		Z	T	S	02	P04	S103	NO2	NO3	DT
107.040	06/15/69 1345GMT 30 05.5N 116 40.5W BOTTOM 2933M WIND 300 12KT WEATHER 2 DOMINANT WAVES 300 04 04	10	16.70	33.54		.29	2.	.00	.0	345.7
107.045	06/15/69 1045GMT 29 56.5N 117 04.0W BOTTOM 2042M WIND 300 12KT WEATHER 2 DOMINANT WAVES 300 04 04	10	16.87	33.58		.24	2.	.00	.0	346.6
107.050	06/15/69 0816GMT 29 49.0N 117 21.0W BOTTOM 2696M WIND 290 10KT WEATHER 2 DOMINANT WAVES 280 06 05	10	16.73	33.31		.29	3.	.00	.0	363.1
107.055	06/15/69 0540GMT 29 41.0N 117 42.0W BOTTOM 3263M WIND 310 11KT WEATHER 2 DOMINANT WAVES 310 04 06	10	16.71	33.27		.27	3.	.00	.1	365.6
107.060	06/15/69 0310GMT 28 32.0N 118 01.5W BOTTOM 3737M WIND 310 12KT WEATHER 2 DOMINANT WAVES 310 04 06	10	16.76	33.38		.27	4.	.00	.2	358.7
107.070	06/14/69 2300GMT 29 11.0N 118 41.0W BOTTOM 2980M WIND 310 12KT WEATHER 2 DOMINANT WAVES 310 04 06	10	17.20	33.28		.27	3.	.00	.0	375.8
107.080	06/14/69 1840GMT 28 51.5N 119 20.0W BOTTOM 3737M WIND 320 12KT WEATHER 2 DOMINANT WAVES 310 05 05	10	17.36	33.34		.27	3.	.00	.0	375.1
110.032	06/15/69 2335GMT 29 51.5N 115 49.5W BOTTOM 34M WIND 240 03KT WEATHER 4 DOMINANT WAVES 270 01 05	10	12.32	33.472		.88	12.	.06	5.1	262.1
110.045	06/16/69 0720GMT 29 27.0N 116 39.5W BOTTOM 558M WIND 290 10KT WEATHER DOMINANT WAVES 290 01 05	10	16.52	33.423		.27	2.	.00	.0	350.3
113.029	06/18/69 0630GMT 29 24.0N 115 13.0W BOTTOM 26M WIND 310 10KT WEATHER DOMINANT WAVES 290 02 09	10	13.72	33.727		.64	20.	.00	3.3	269.9
113.030	06/18/69 0550GMT 29 21.0N 115 18.0W BOTTOM 63M WIND 310 12KT WEATHER DOMINANT WAVES 290 02 09	10	13.00	33.676		.72	17.	.00	4.1	259.8
113.035	06/18/69 0240GMT 29 11.5N 115 38.0W BOTTOM 1336M WIND 310 10KT WEATHER 2 DOMINANT WAVES 290 02 09	10	14.42	33.538		.29	3.	.00	.0	297.6
113.040	06/17/69 2345GMT 28 58.0N 115 58.5W BOTTOM 1669M WIND 310 08KT WEATHER 2 DOMINANT WAVES 290 02 09	10	16.78	33.513		.40	3.	.00	.0	349.4

		Z	T	S	OZ	P04	SIO3	N02	N03	DT
113.045	06/17/69 2105GMT 28 48.0N 116 19.0W BOTTOM 2696M WIND 320 02KT WEATHER 2 DOMINANT WAVES 290 02 09	10	16.70	33.558		.37	3.	.00	.0	344.4
113.050	06/17/69 1910GMT 28 40.0N 116 36.0W BOTTOM 3545M WIND 300 04KT WEATHER 2 DOMINANT WAVES 300 03 05	10	17.07	33.589						350.4
113.060	06/17/69 1440GMT 28 21.0N 117 15.5W BOTTOM 3737M WIND 330 04KT WEATHER 2 DOMINANT WAVES 290 01 05	10	16.92	33.617		.40	5.	.00	.0	345.0
113.070	06/17/69 0945GMT 28 02.0N 117 55.0W BOTTOM 3451M WIND 290 06KT WEATHER 2 DOMINANT WAVES	10	17.54	33.537		.37	2.	.00	.0	364.8
113.080	06/17/69 0555GMT 27 42.0N 118 33.5W BOTTOM 3737M WIND 320 04KT WEATHER 2 DOMINANT WAVES 300 04 05	10	17.57	33.547		.32	2.	.00	.0	364.8
117.025	06/18/69 1210GMT 28 58.0N 114 37.0W BOTTOM 47M WIND 320 06KT WEATHER 2 DOMINANT WAVES 320 01 05	10	14.66	33.690		.59	14.	.00	2.4	291.3
117.026	06/18/69 1140GMT 28 56.0N 114 41.5W BOTTOM 75M WIND 290 10KT WEATHER 1 DOMINANT WAVES 290 02 02	10	15.38	33.711		.27	10.	.00	.0	304.7
117.030	06/18/69 1008GMT 28 48.0N 114 56.5W BOTTOM 106M WIND 290 08KT WEATHER 1 DOMINANT WAVES 290 02 09	10	14.72	33.442		.21	1.	.00	.0	310.7
117.035	06/19/69 0435GMT 28 38.0N 115 16.0W BOTTOM 187M WIND 310 10KT WEATHER 0 DOMINANT WAVES 300 02 05	10	15.46	33.474		.40	1.	.00	.0	323.7
117.040	06/19/69 1023GMT 28 28.0N 115 35.5W BOTTOM 947M WIND 310 12KT WEATHER 2 DOMINANT WAVES 300 03 04	10	16.36	33.512		.35	3.	.00	.0	340.3
117.045	06/19/69 1243GMT 28 18.0N 115 56.0W BOTTOM 3545M WIND 300 10KT WEATHER 2 DOMINANT WAVES 300 05 04	10	15.84	33.530		.29	2.	.00	.0	327.7
117.050	06/19/69 1515GMT 28 08.0N 116 15.0W BOTTOM 4212M WIND 310 10KT WEATHER 2 DOMINANT WAVES 300 05 04	10	16.62	33.575		.29	4.	.00	.0	341.4
117.060	06/19/69 1900GMT 27 49.0N 116 54.0W BOTTOM 3641M WIND 330 08KT WEATHER 2 DOMINANT WAVES 330 03 05	10	17.24	33.610		.27	4.	.00	.0	352.7

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TEN METER DATA

						Z	T	S		02	P04	S103	N02	N03	DT
117.070	06/19/69	2345GMT	27	29.5N	117 32.5W	10	17.76	33.568			.24	2.	.00	.0	367.6
	BOTTOM	3926M			WIND 340 10KT WEATHER 1										
	DOMINANT WAVES	340 03 05													
117.080	06/20/69	0400GMT	27	08.0N	118 10.5W	10	18.25				.21	2.	.00	.0	
	BOTTOM	4021M			WIND 300 08KT WEATHER 1										
	DOMINANT WAVES	340 01 05													
120.024	06/18/69	1645GMT	28	25.0N	114 10.5W	10	16.70	33.716			.27	10.	.00	.0	332.9
	BOTTOM	32M			WIND 260 08KT WEATHER 2										
	DOMINANT WAVES	230 02 05													
120.025	06/18/69	1725GMT	28	22.5N	114 15.0W	10	16.92	33.729			.24	10.	.00	.0	336.8
	BOTTOM	56M			WIND 280 10KT WEATHER 2										
	DOMINANT WAVES	230 02 05													
120.030	06/18/69	1945GMT	28	14.0N	114 33.5W	10	16.37	33.708			.35	11.	.00	.0	326.2
	BOTTOM	93M			WIND 290 08KT WEATHER 1										
	DOMINANT WAVES	290 03 05													
120.035	06/18/69	2210GMT	28	03.0N	114 54.0W	10	17.18	33.720			.35	10.	.00	.0	343.3
	BOTTOM	84M			WIND 310 08KT WEATHER 1										
	DOMINANT WAVES	290 02 05													
120.040	06/24/69	0140GMT	27	56.5N	115 14.0W	10	16.76	33.718			.27	11.	.00	.0	334.0
	BOTTOM	43M			WIND 280 18KT WEATHER 2										
	DOMINANT WAVES	290 04 06													
123.036	06/24/69	1430GMT	27	26.0N	114 36.0W	10	12.12	33.953			1.20	33.	.38	13.0	223.1
	BOTTOM	47M			WIND 280 10KT WEATHER 2										
	DOMINANT WAVES	270 02 07													
123.037	06/24/69	1515GMT	27	24.0N	114 40.0W	10	12.09	33.942			1.16	33.	.20	13.2	223.4
	BOTTOM	69M			WIND 300 04KT WEATHER 2										
	DOMINANT WAVES	270 02 07													
123.042	06/24/69	1748GMT	27	14.0N	114 59.0W	10	17.48	33.635			.24	5.	.00	.4	356.3
	BOTTOM	1577M			WIND 100 01KT WEATHER 2										
	DOMINANT WAVES	290 01 04													
123.045	06/24/69	1947GMT	27	08.0N	115 11.5W	10	17.84	33.624			.21	2.	.00	.0	365.4
	BOTTOM	4212M			WIND 290 06KT WEATHER 5										
	DOMINANT WAVES	310 02 06													
123.050	06/24/69	2230GMT	26	58.0N	115 31.0W	10	17.74	33.585			.29	3.	.00	.0	365.9
	BOTTOM	3641M			WIND 300 06KT WEATHER 2										
	DOMINANT WAVES	300 02 06													
123.060	06/25/69	0239GMT	26	38.5N	116 09.0W	10	17.78	33.591			.29	3.	.00	.0	366.4
	BOTTOM	3832M			WIND 330 06KT WEATHER 2										
	DOMINANT WAVES	250 03 05													

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TEN METER DATA

						Z	T	S	O2	P04	S103	N02	N03	DT
127.033	06/25/69	2006GMT	26 57.5N	114 02.0W		10	13.64	33.858		1.12	23.	.23	10.2	258.7
		BOTTOM	63M	WIND 200 06KT	WEATHER 2									
		DOMINANT WAVES	300 01 04											
127.034	06/25/69	1917GMT	26 55.0N	114 06.5W		10	14.03	33.779		.56	9.	.11	3.9	272.1
		BOTTOM	84M	WIND 210 01KT	WEATHER 2									
		DOMINANT WAVES	300 01 04											
127.040	06/25/69	1605GMT	26 44.0N	114 30.0W		10	17.40	33.639		.29	4.	.00	.0	354.2
		BOTTOM	3263M	WIND 100 02KT	WEATHER 2									
		DOMINANT WAVES	280 01 08											
127.045	06/25/69	1335GMT	26 33.0N	114 48.5W		10	17.62	33.594		.37	3.	.07	.0	362.5
		BOTTOM	3737M	WIND 300 08KT	WEATHER 2									
		DOMINANT WAVES	310 01 04											
127.050	06/25/69	1115GMT	26 22.0N	115 09.5W		10	18.13	33.763		.27	2.	.00	.0	362.0
		BOTTOM	4308M	WIND 300 08KT	WEATHER 2									
		DOMINANT WAVES	310 01 04											
127.060	06/25/69	0704GMT	26 04.0N	115 45.0W		10	18.44	34.023		.32	3.	.00	.0	350.4
		BOTTOM	4021M	WIND 290 08KT	WEATHER 2									
		DOMINANT WAVES	310 01 04											
130.028	06/26/69	0025GMT	26 33.5N	113 21.0W		10	13.86	33.746		.80	18.	.21	6.9	271.2
		BOTTOM	56M	WIND 310 04KT	WEATHER 2									
		DOMINANT WAVES	300 01 04											
130.035	06/26/69	0415GMT	26 19.0N	113 48.0W		10	16.32	33.692		.37	1.	.00	.0	326.2
		BOTTOM	613M	WIND 260 06KT	WEATHER 1									
		DOMINANT WAVES												
130.045	06/26/69	1045GMT	25 57.5N	114 27.0W		10	15.78	33.600		.24	6.	.00	.0	321.3
		BOTTOM	3641M	WIND 300 06KT	WEATHER 2									
		DOMINANT WAVES												
133.023	06/27/69	1730GMT	26 08.5N	112 40.0W		10	16.98	34.012		.85	36.	.15	.0	317.5
		BOTTOM	71M	WIND 260 06KT	WEATHER 1									
		DOMINANT WAVES	270 01 04											
133.025	06/27/69	1610GMT	26 04.5N	112 48.0W		10	16.90	33.872		.77	22.	.00	.0	325.9
		BOTTOM	80M	WIND 070 10KT	WEATHER 1									
		DOMINANT WAVES	270 01 04											
133.030	06/27/69	1315GMT	25 52.5N	113 08.5W		10	13.66	34.054		1.90	50.	.45	14.4	244.7
		BOTTOM	229M	WIND 330 12KT	WEATHER 1									
		DOMINANT WAVES	320 03 05											
133.035	06/27/69	1030GMT	25 40.5N	113 24.5W		10	17.29	33.613		.21	3.	.00	.0	353.6
		BOTTOM	761M	WIND 300 11KT	WEATHER 1									
		DOMINANT WAVES	300 03 05											

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TEN METER DATA

			Z	T	S	02	PO4	SI03	NO2	NO3	DT
133.040	06/27/69 0830GMT 25 32.0N 113 43.5W BOTTOM 2885M WIND 310 04KT WEATHER 1 DOMINANT WAVES 310 03 05		10	17.91	33.689		.24	3.	.00	.0	362.3
133.050	06/27/69 0407GMT 25 14.5N 114 24.0W BOTTOM 3832M WIND 330 05KT WEATHER 1 DOMINANT WAVES 330 02 05		10		33.776		.24	3.	.00	.0	
133.060	06/26/69 2315GMT 24 54.5N 115 02.0W BOTTOM 4021M WIND 290 05KT WEATHER 2 DOMINANT WAVES		10	18.14	33.714		.29	3.	.00	.0	365.8
137.022	06/27/69 2120GMT 25 36.0N 112 15.0W BOTTOM 60M WIND 270 10KT WEATHER 1 DOMINANT WAVES 280 01 04		10	17.86	34.050		.61	23.	.00	.0	334.8
137.035	06/28/69 0530GMT 25 10.0N 113 04.5W BOTTOM 1206M WIND 290 08KT WEATHER 1 DOMINANT WAVES 270 01 04		10	15.20	33.820		.93	24.	.26	1.7	293.0

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