

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 7203
1-28 March 1972

and

CalCOFI Cruise 7205
11 April - 14 June 1972

SIO Reference 82-14
15 June 1982

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Sponsored by
Marine Research Committee

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15 June 1982

Approved for distribution:


W. A. Nierenberg, Director

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INTRODUCTION

The data in this report were collected during Cruises 7203* and 7205 of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV David Starr Jordan of the National Marine Fisheries Service and the RV Alexander Agassiz of the Scripps Institution of Oceanography. The extended 7205 cruise pattern was designed to collect data across the California Current from 45°N to 20°N, much the same pattern as was used on the NORPAC cruise in the late summer of 1955. This extended pattern for the late spring was again conducted in the early fall of 1972. Besides allowing the first larger overview of the California Current since January 1965, the cruise was used to collect data near three deep-moored buoys which have been recording meteorological data and temperature data (surface to 300 meters) for several months. The report preceding this one in the series was SIO Ref. 80-21 which included data for 7201 and 7202.

These data were collected and processed mainly by personnel of the Data Collection and Processing Group (DCPG**, MLR), Scripps Institution of Oceanography. The cruises were also used as a technical training program for personnel of the Sea Grant and the GEOSECS departments.

STANDARD PROCEDURES

Hydrographic Cast Data

The hydrographic casts consisted of 12 to 18 Nansen bottles with the maximum sampling depth at most stations being 1200 meters, bottom depth permitting. Casts deeper than 3000 meters were lowered at 80.70*** and 80.80 on the Jordan in March and again at 80.70, 80.80 and at 39.141**** on the Agassiz in April and June. Temperature, salinity, oxygen and nutrients were determined for all depths on most stations.

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 oxygen were determined for most of the 10 meter samples from the Jordan and the Agassiz.

-
- * The first two digits represent the year and the second digits the month of the cruise.
 - ** Now the Physical and Chemical Oceanographic Data Facility (PACODF).
 - *** The CalCOFI station designations have been in use for over thirty years. The digits preceding the decimal specify a line normal to the general trend of the coast line (CalCOFI line). The digits following the decimal specify a station position relative to the coast on the CalCOFI line. One CalCOFI digit equals 4 nautical miles.
 - **** This is not a CalCOFI station designation. In this oceanic station designator, the first two digits are north latitude; the latter three digits are west longitude.

In general, paired, protected reversing thermometers were used to determine temperatures; the readings were recorded to hundredths of a Celsius degree. Temperatures on the deep casts made during the cruises in this report are recorded only in hundredths of a Celsius degree because specially scaled low-range thermometers were not available. Surface temperatures from "bucket" thermometers and temperatures determined using unprotected (pressure) thermometers were recorded to tenths of a degree. Sample bottles used below 100 meters were equipped with unprotected thermometers for determination of the depth of sampling.

The Bissett Berman (now Grundy Environmental Systems, Inc.) inductive salinometer used for salinity determination on the Jordan during 7203 and 7205 operated very well. Difficulty in operation of a Bissett Berman inductive salinometer and, for a few stations, a University of Washington conductive salinometer on the Agassiz during the March cruise, resulted in several delays in sample determination; extreme cases of delay are footnoted. However, during the Agassiz cruise in May, both the University of Washington conductive and an AutoLab inductive salinometer operated well.

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 standard Beckman Model DU spectrophotometer. Reactive phosphate was analyzed using the method of Murphy and Riley (1962), with the specific procedure outlined by Anderson (1971); reactive silicate by the method of Strickland and Parsons (1968); nitrate by the method of Wood *et al.* (1967); and nitrite by the method of Bendschneider and Robinson (1952). The specific procedures used for silicate, nitrate and nitrite are outlined in Marine Technician handbooks in preparation.

Due to operational difficulty with some of the equipment during the early weeks of cruise 7205 Jordan, some of the nitrate data have been adjusted by their relation to phosphate. These adjustments have been based on the following: one, the data from standard solutions run through each column on a daily basis have been used to compute the nitrate values for a given column; two, a plot of phosphate vs. nitrate is essentially linear and constant and the cruise phosphate data are believed to be of good quality; and three, corrected nitrate data when plotted against phosphate give curves that show excellent agreement with the curves from previous and subsequent expedition data collected in the same area.

Phytoplankton pigment and production data resulting from these cruises have been reported earlier by Owen (1974).

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

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

A Bissett Berman Model 9006 STD was used for both cruises of the Jordan. A slight temperature correction was used only on 7205 but both cruises required a salinity correction of approximately -0.10‰ at the surface to -0.15‰ at 1000 meters. The Agassiz also was equipped with a Model 9006 STD for 7203. A small correction only to salinity was required but the instrument became inoperative March 3rd and hydrographic casts were made on all scheduled stations the remainder of the cruise. A Bissett Berman Model 9040 STD was used on the Agassiz for 7205. It was inoperative for a short time so that most stations on 35°N were hydrographic casts only. It was repaired during occupation of 39°N and was used the remainder of the cruise. The digital data logger used with the STD malfunctioned and all tabulated data were digitized from the analog recordings. Again no correction to the temperature was required. A salinity correction for each station was determined by comparison with the hydrographic cast lowered at the same position or by comparison with the data from the two Nansen bottles lowered on the wire with the STD. Most stations required a large correction of approximately -0.20‰ at the surface to -0.30‰ at 1000 meters.

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 time for the first and last casts are given. Multiple casts, excluding the surface cast, are indicated by a footnote letter following the observed depth.

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 were obtained by bottle casts and by the STD, and appear in two forms:

- 1) Data from the sample bottles appear with the observed levels of depth on the left of a page. Temperature, salinity and oxygen are interpolated from the observations at standard levels of depth on the right of the page. Computed values of thermobaric anomaly (DT) are included with the observed levels and computed values of sigma-t (SIGT), thermobaric anomaly (DT) and geopotential anomaly (DD) are included with the interpolated levels.

2) Data at standard levels of depth from the STD lowerings appear on the right of a page with computed values of sigma-t, thermosteric anomaly and geopotential anomaly included.

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 80.70 appears in the tabulated data as 80070. 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	$\delta_T =$ Thermosteric anomaly	cl/ton
SIGT	$(\rho_{s,t,0} - 1)10^3$ 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

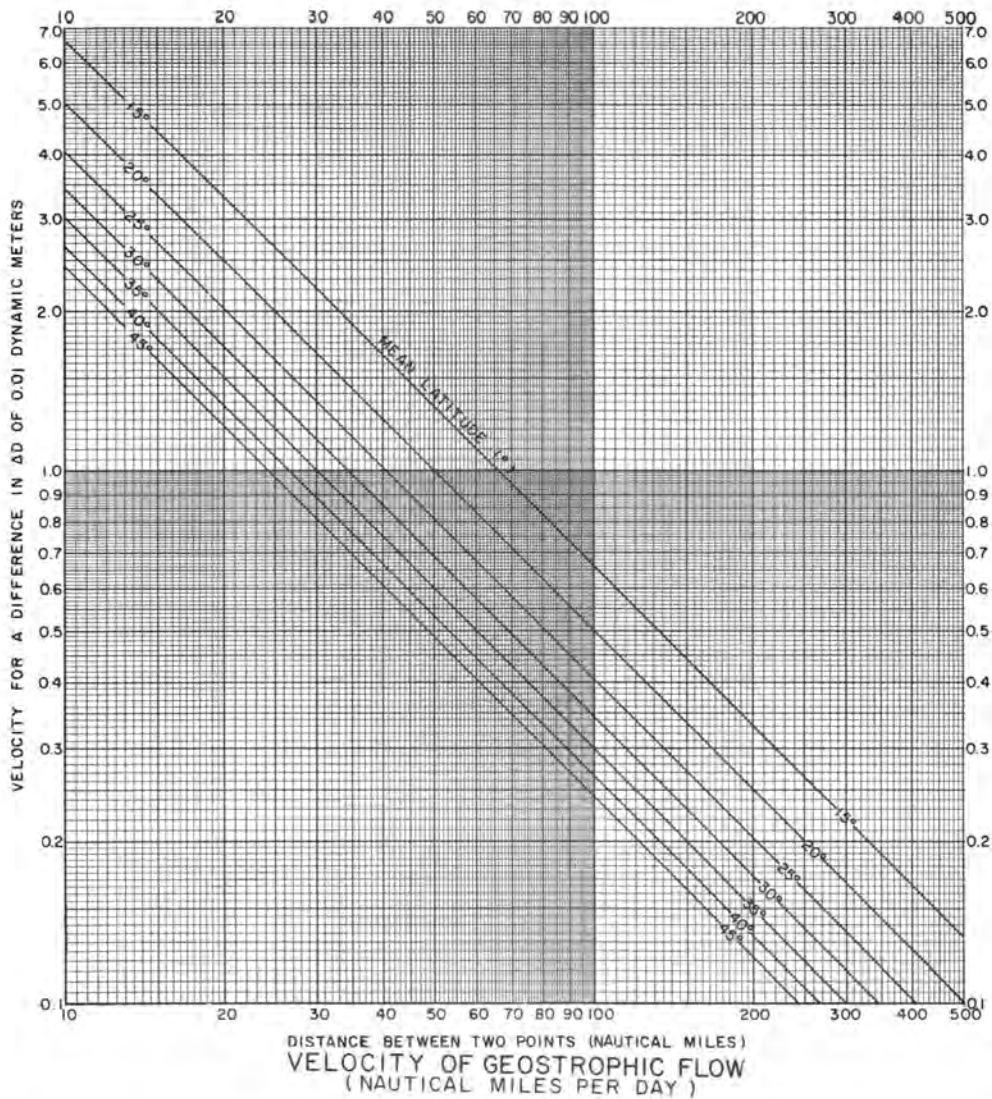
In addition to footnotes, special notations are used without footnotes because the meaning is always the same.

- P: After depth value indicates the Nansen bottles posttripped.
- U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason.
- V: Because of time differences, overlapping casts show some differences. Values not used in interpolation.

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cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> 0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17	
	<i>NM/DAY</i>	0.47	0.93	1.40	1.86	2.33	2.80	3.26	3.73	4.20
10	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.35	0.37
	4.66	5.13	5.59	6.06	6.53	6.99	7.46	7.93	8.39	8.86
20	0.39	0.41	0.43	0.45	0.47	0.49	0.51	0.52	0.54	0.56
	9.32	9.79	10.26	10.72	11.19	11.66	12.12	12.59	13.05	13.52
30	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76
	13.99	14.45	14.92	15.38	15.85	16.32	16.78	17.25	17.72	18.18
40	0.78	0.80	0.82	0.84	0.85	0.87	0.89	0.91	0.93	0.95
	18.65	19.11	19.58	20.05	20.51	20.98	21.45	21.91	22.38	22.84
50	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15
	23.31	23.78	24.24	24.71	25.17	25.64	26.11	26.57	27.04	27.51
60	1.17	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34
	27.98	28.44	28.90	29.37	29.84	30.30	30.77	31.24	31.70	32.17
70	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.53
	32.63	33.10	33.57	34.03	34.50	34.96	35.43	35.90	36.36	36.83
80	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.69	1.71	1.73
	37.30	37.76	38.23	38.69	39.15	39.63	40.09	40.56	41.03	41.49
90	1.75	1.77	1.79	1.81	1.83	1.85	1.86	1.88	1.90	1.92
	41.96	42.42	42.89	43.36	43.82	44.29	44.76	45.22	45.69	46.15
100	1.94	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12
	46.62	47.09	47.55	48.02	48.48	48.95	49.42	49.88	50.35	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 7203

1. CalCOFI Cruise 7203, 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

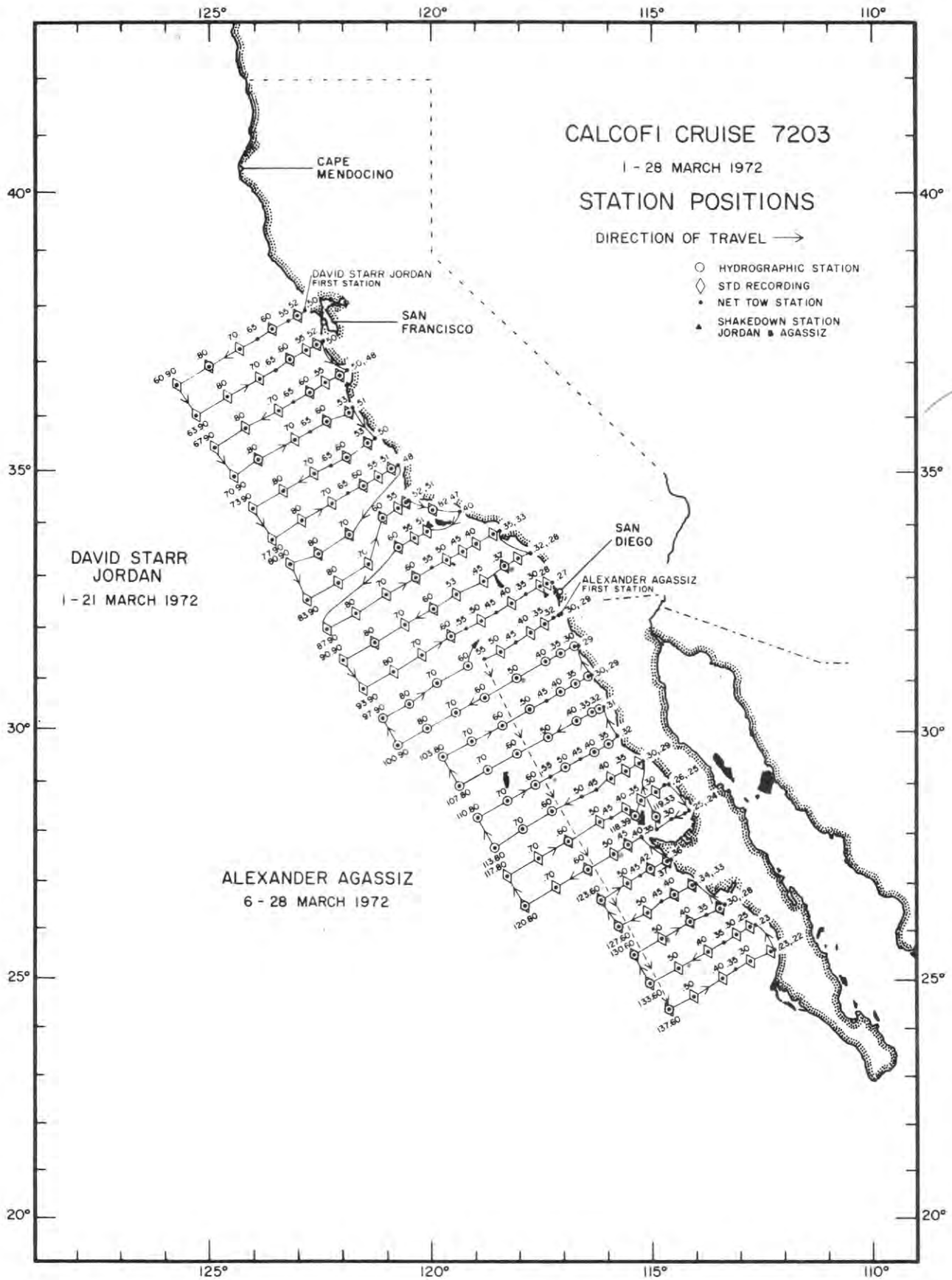


FIGURE 1

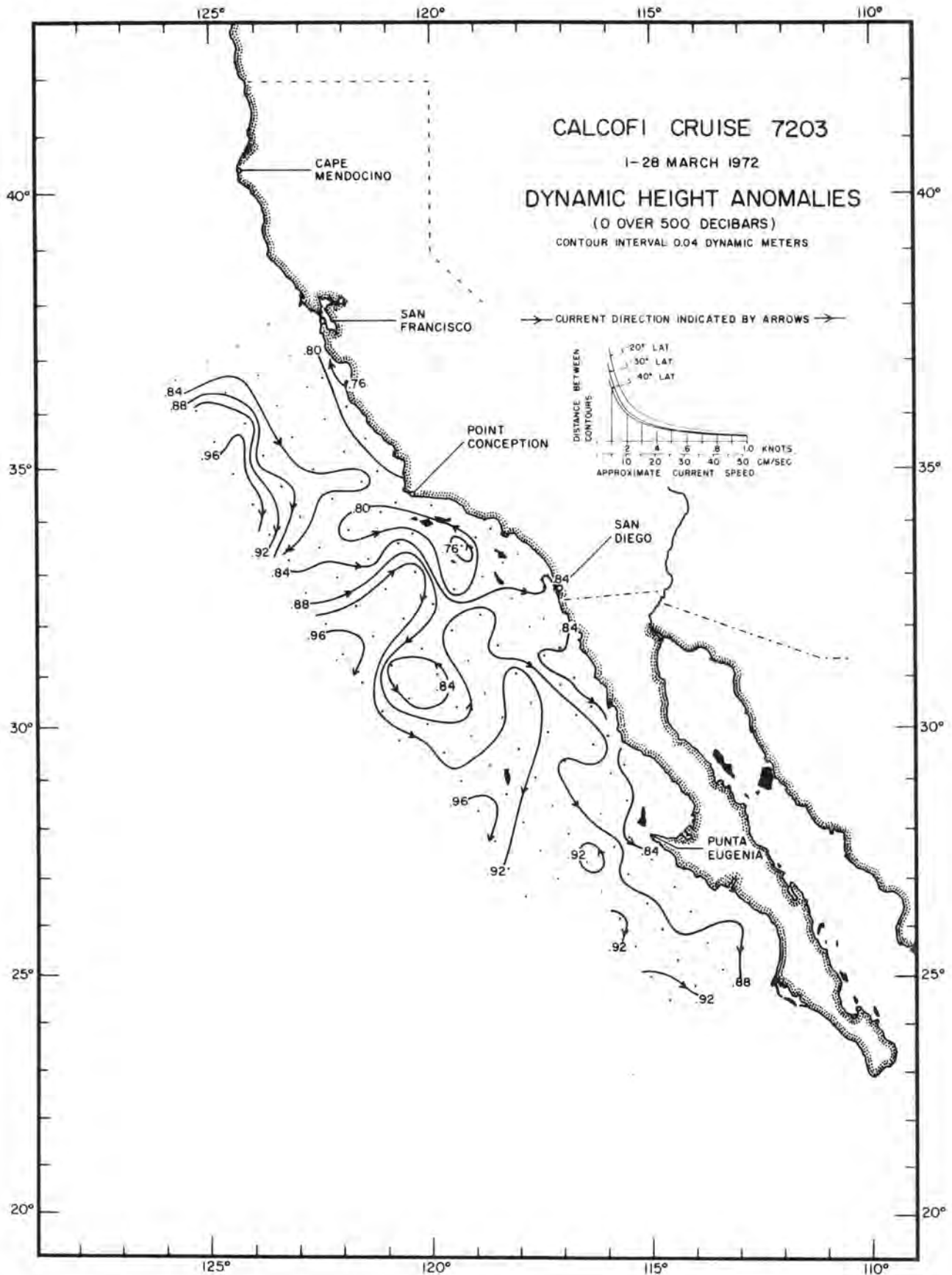


FIGURE 2

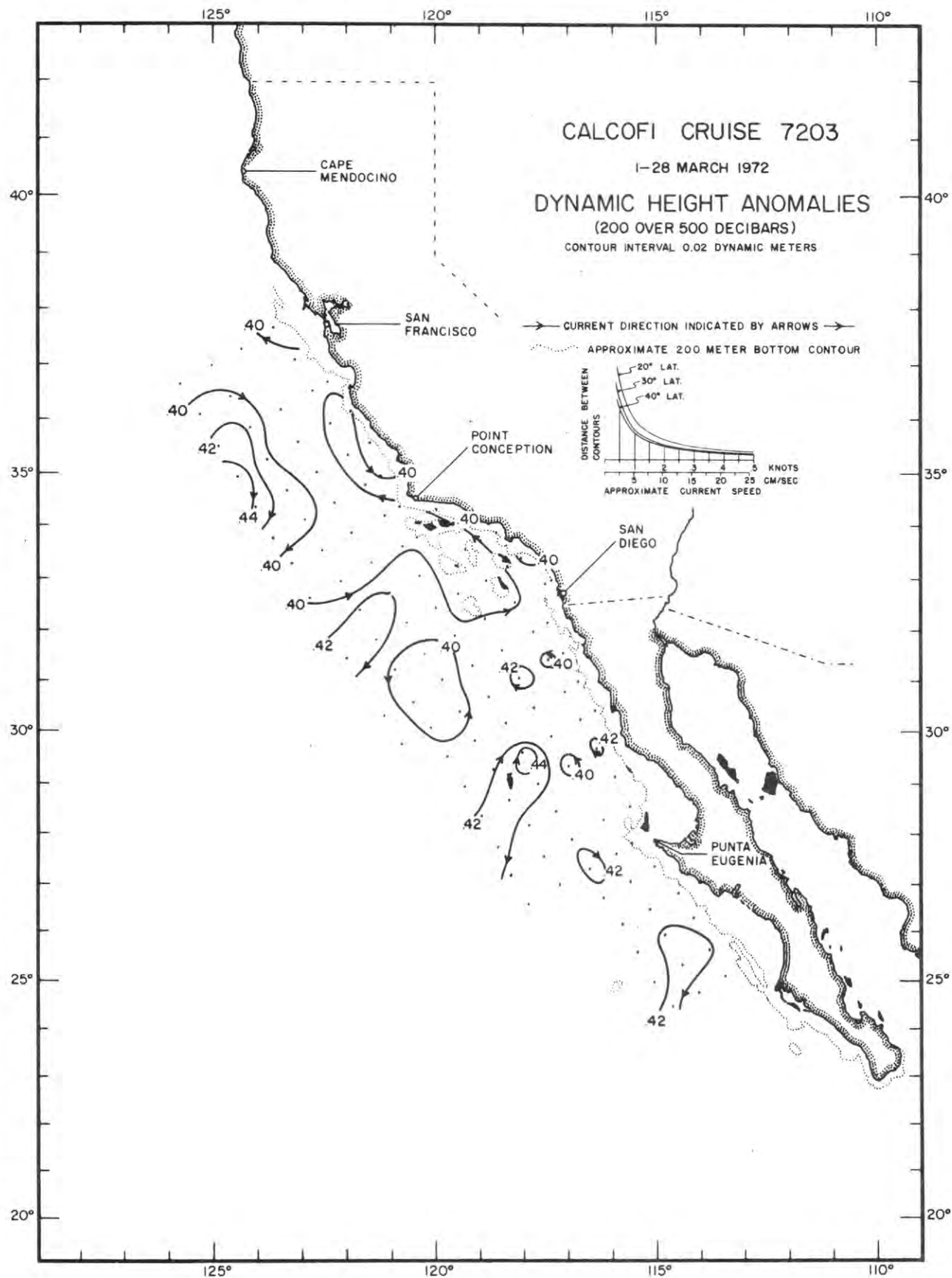


FIGURE 3

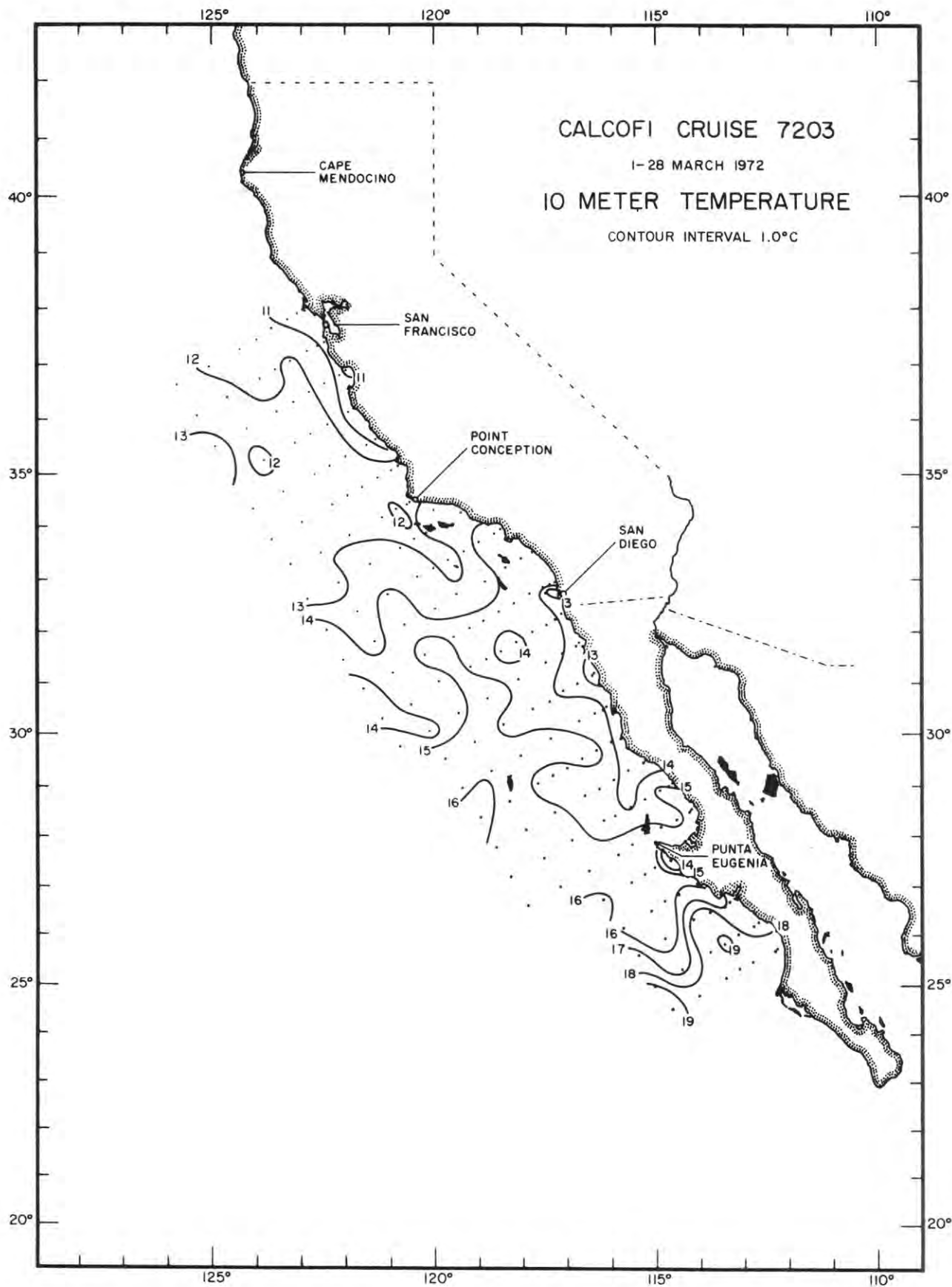


FIGURE 4

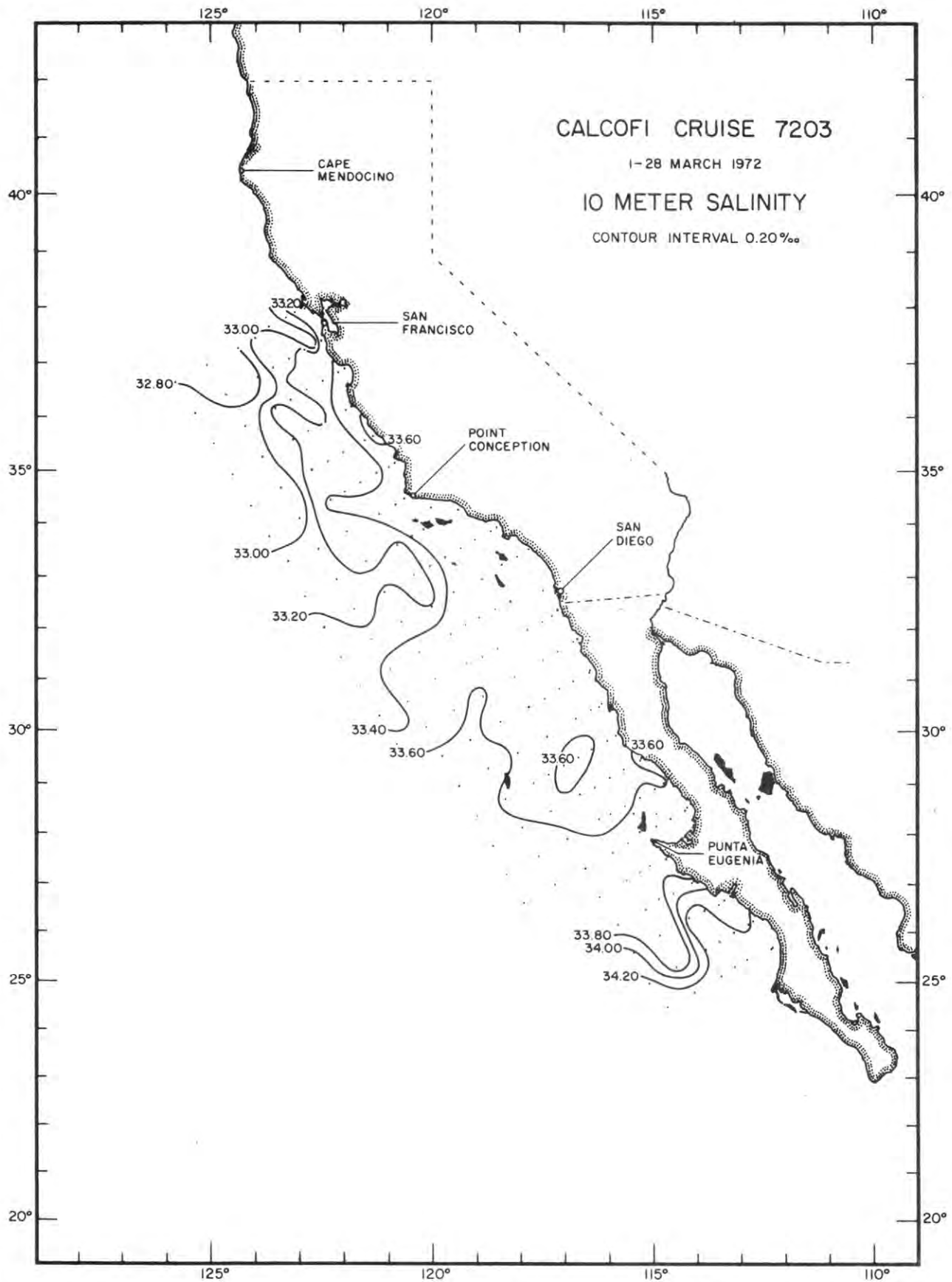


FIGURE 5

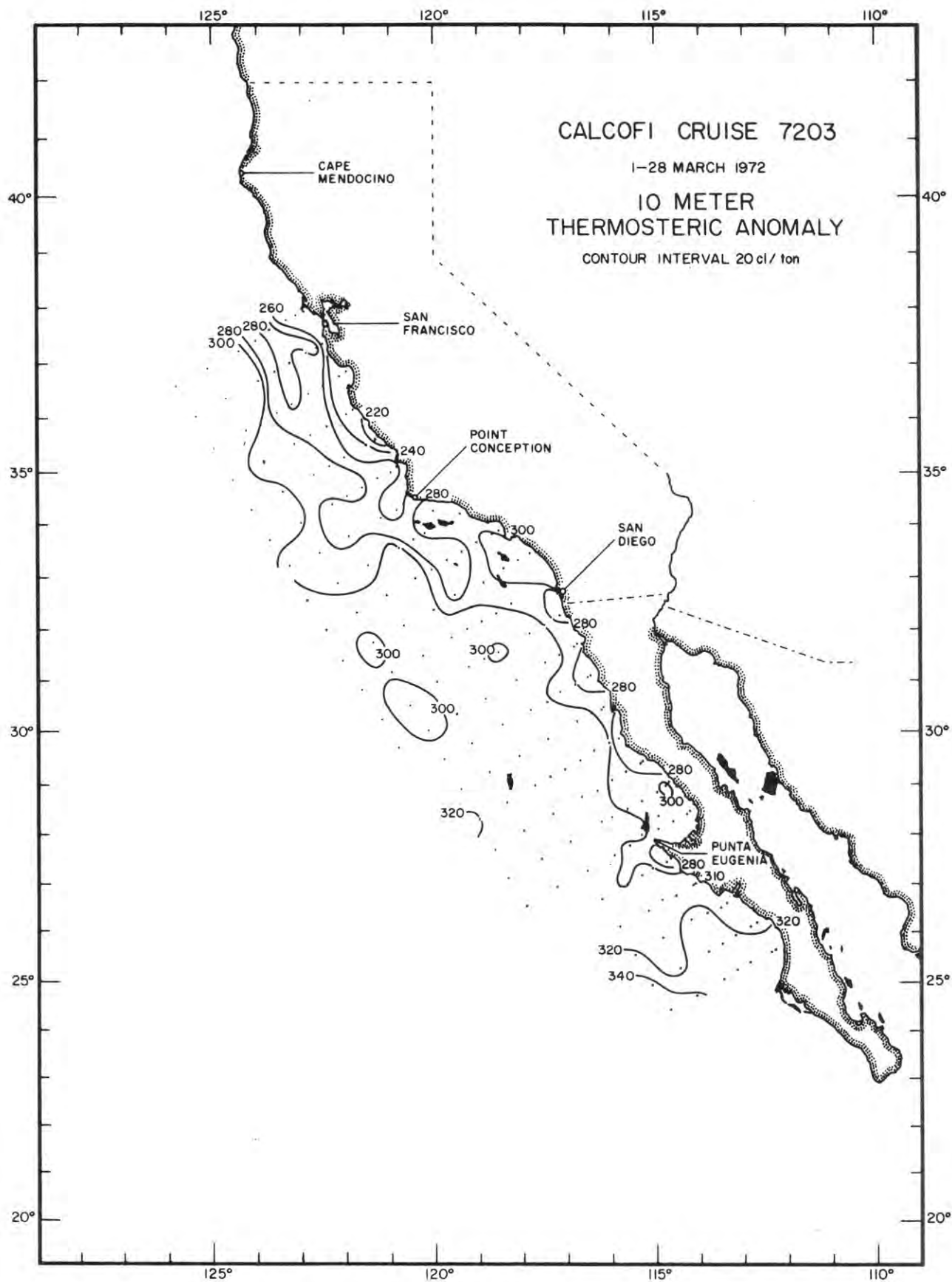


FIGURE 6

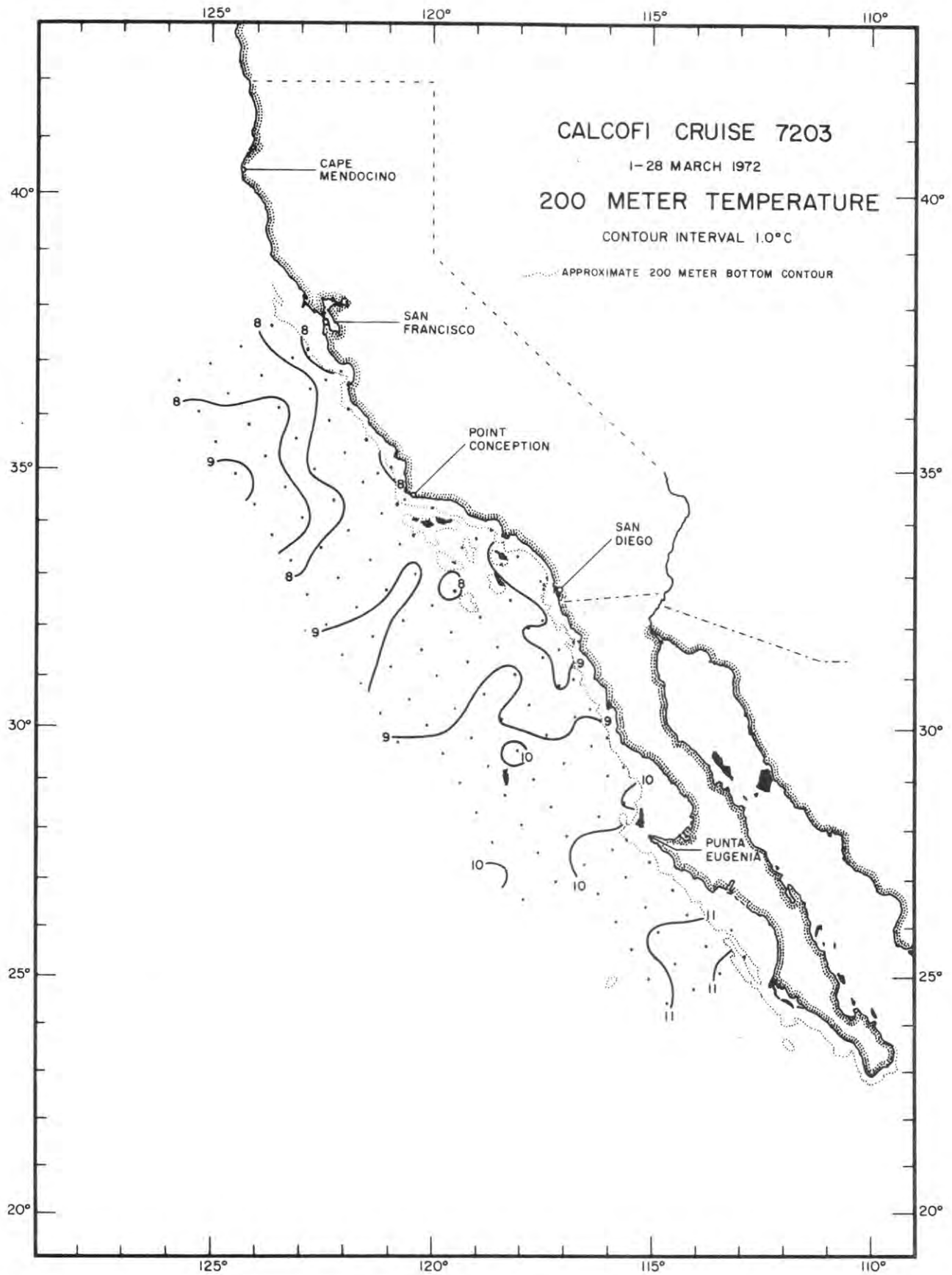


FIGURE 7

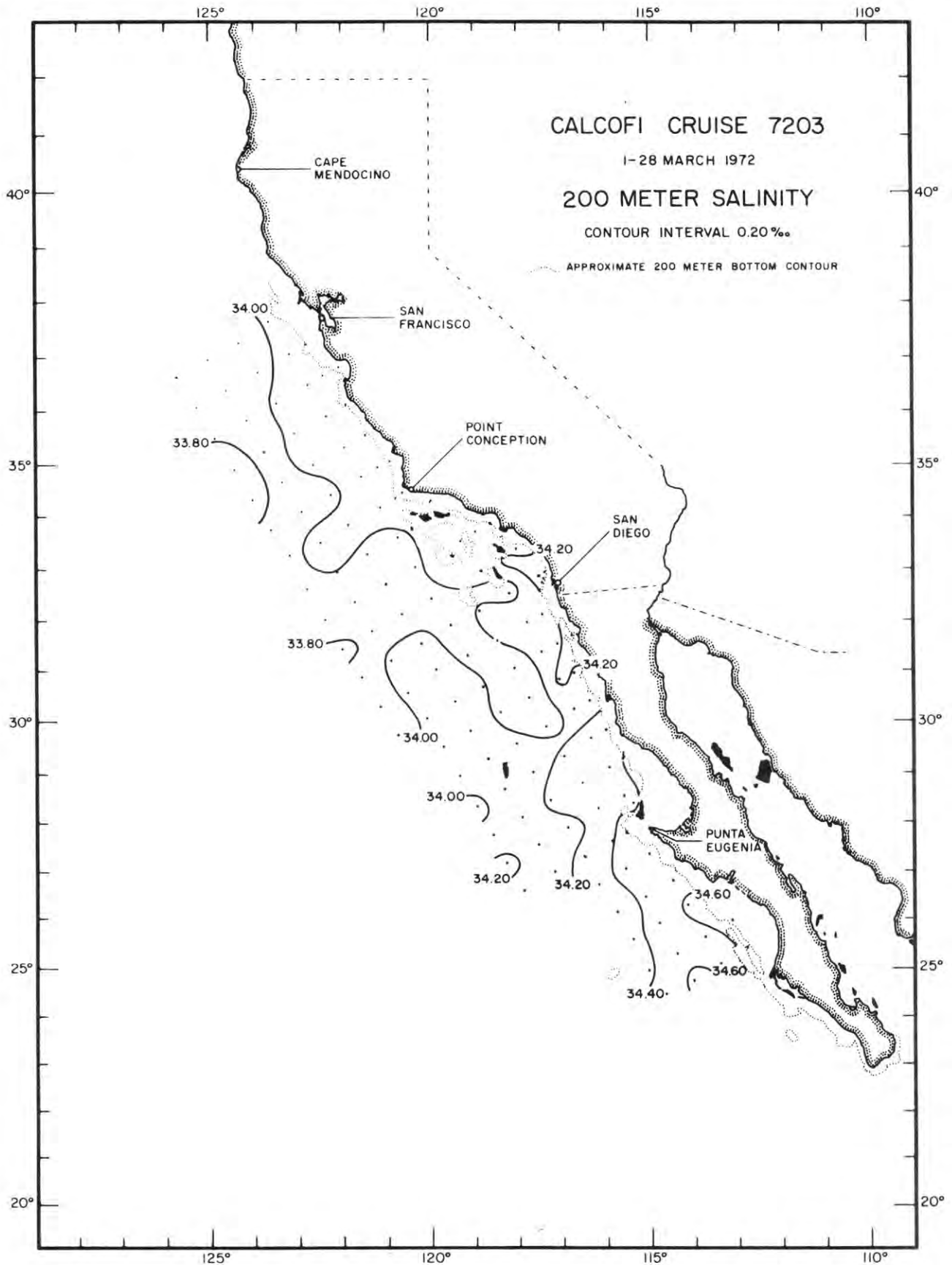


FIGURE 8

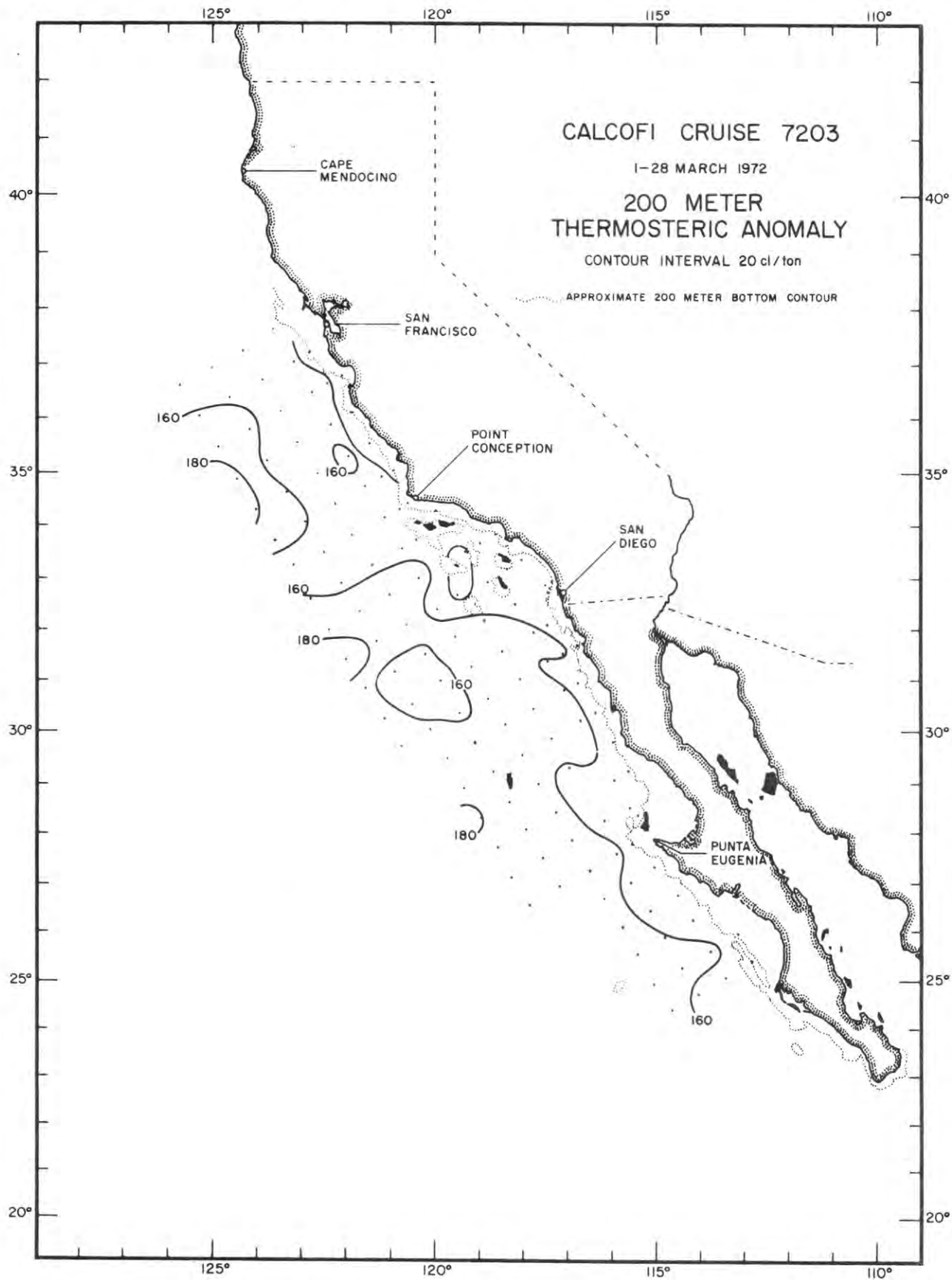


FIGURE 9

PERSONNEL
Cruise 7203

SHIP'S CAPTAINS

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

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz:

Costello, James P. (in charge)	Staff Research Associate SIO
Guttman, Michael A.	Sea Grant Student SDSU
Knutson, Kenneth E.	Electronics Technician SIO
Metoyer, Jack D.	Biology Laboratory Technician NMFS
Mulitauaopele, Tapuni S.	Fishery Biologist NMFS
Peckham, Richard L.	Sea Grant Student SIO
Price, William H.	Staff Research Associate GEOSECS
Rowe, Raymond A.	Marine Technician SIO
Sinclair, Michael M.	Marine Technician SIO
Thomas, James E.	Marine Technician SIO
Wilson, Robert C.	Sea Grant Student SDSU

RV David Starr Jordan:

Counts, Robert C. (in charge)	Fishery Biologist NMFS
Bliss, Kenneth A.	Oceanographer NMFS
Borden, Randy L.	Sea Grant Student SDSU
Burgener, Bruce C.	Staff Research Associate SIO
Horowitz, Ross M.	Staff Research Associate GEOSECS
McDonald, Judy	Sea Grant Student SDSU
Patla, Susan M.	Marine Technician SIO
Shuey, Raymond E.	Electronics Technician NMFS
Stepanenko, Michael	Scientist USSR
Tarasenko, Nicolay	Scientist USSR
Thrailkill, James R.	Fishery Biologist NMFS
Yates, Robert E.	Marine Technician SIO

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 60052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 53.5N	123 03.5W	3/ 4/72	0430	6MT		84M	310	10KT	4							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD	
										0	10.78	33.23		25.459	253.1	0.000
										10	10.77	33.24		25.469	252.2	0.025
										20	10.06	33.46		25.762	224.3	0.049
										30	9.83	33.54		25.863	214.7	0.071
										50	9.54	33.68		26.020	199.8	0.113

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 60052

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 53.5N	123 03.5W	3/ 4/72	0450	6MT		84M	310	10KT	4							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD	
	0	10.78	33.220	5.96	1.35	20.	0.33	11.8	253.8	0	10.78	33.220	5.96	25.452	253.8	0.000
	10	10.30	33.325	5.10	1.28	22.	0.35	13.9	238.1	10	10.30	33.325	5.10	25.616	238.1	0.025
	30	9.75	33.535	4.24	1.77	32.	0.42	17.7	213.8	20	9.98	33.437	4.59	25.757	224.8	0.048
	50	9.45	33.672	3.52	1.93	38.	0.31	22.1	199.0	30	9.75	33.535	4.24	25.872	213.8	0.070
										50	9.45	33.672	3.52	26.029	199.0	0.111

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 60060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 37.5N	123 39.5W	3/ 4/72	0852	6MT		3164M	300	10KT	4							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD	
										0	11.45	32.96		25.130	284.4	0.000
										10	11.44	32.96		25.132	284.2	0.028
										20	11.32	33.04		25.216	276.3	0.057
										30	10.85	33.15		25.385	260.2	0.083
										50	10.55	33.33		25.577	241.9	0.134
										75	10.46	33.55		25.764	224.1	0.192
										100	9.60	33.66		25.995	202.2	0.246
										125	9.36	33.84		26.174	185.1	0.295
										150	9.06	33.92		26.285	174.6	0.341
										200	8.40	34.01		26.458	158.1	0.425
										250	7.82	34.06		26.584	146.2	0.503
										300	7.31	34.07		26.665	138.5	0.577
										400	6.37	34.15		26.856	120.4	0.711
										500	5.59	34.17		26.970	109.6	0.832
										600	5.39	34.27		27.073	99.8	0.944
										700	4.83	34.34		27.194	88.3	1.045
										800	4.49	34.38		27.263	81.7	1.138
										1000	3.95	34.44		27.368	71.8	1.308

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 60060

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 37.5N	123 39.5W	3/ 4/72	0948	6MT		3164M	300	10KT	4							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD	
	0	11.40	33.010	6.62	0.36	2.	0.05	0.8	279.9	0	11.40	33.010	6.62	25.178	279.9	0.000
	10	11.40	33.010	6.56	0.36	2.	0.04	0.9	279.9	10	11.40	33.010	6.56	25.178	279.9	0.028
	29	10.82	33.142	6.33	0.53	2.	0.11	3.2	260.3	20	11.12	33.068	6.46	25.271	271.0	0.056
	59	10.57	33.451	5.69	0.94	11.	0.10	10.4	233.3	30	10.80	33.155	6.31	25.395	259.2	0.082
	78	10.43	33.582	5.46	1.14	15.	0.03	13.0	221.3	50	10.60	33.361	5.88	25.591	240.6	0.132
	93	10.02	33.686	4.35	1.45	20.	0.04	18.1	206.9	75	10.47	33.565	5.50	25.773	223.3	0.191
	108	9.59	33.717	4.02	1.60	23.	0.02	19.7	197.8	100	9.81	33.704	4.15	25.993	202.4	0.244
	137	9.22	33.891	3.08	1.82	30.	0.06	23.8	179.2	125	9.33	33.820	3.42	26.162	186.3	0.293
	161	9.00	33.933	3.17	1.91	32.	0.01	26.7	172.7	150	9.10	33.921	3.13	26.278	175.3	0.339
	190	8.63	33.994	2.85	2.01	37.	0.00	26.4	162.7	200	8.54	34.020	2.76	26.443	159.6	0.425
	224	8.36		2.57	2.15	40.	0.00	27.7		250	8.11	34.099	2.35	26.570	147.5	0.503
	291	7.71	34.096	2.01	2.35	50.	0.08	31.4	142.0	300	7.55	34.108	1.94	26.660	139.0	0.577
	396	6.48	34.141	1.31	2.72	68.	0.01	36.5	122.4	400	6.44	34.141	1.28	26.839	122.0	0.713
	500	5.52	34.134	0.70	2.98	84.	0.01	39.6	111.4	500	5.52	34.134	0.70	26.950	111.4	0.836
	633	5.25	34.286	0.42	3.12	98.	0.00	44.0	97.0	600	5.28	34.245	0.44	27.066	100.5	0.948
	785	4.51	34.366	0.71	3.25	116.	0.00	45.6	83.0	700	4.93	34.329	0.52	27.173	90.3	1.051
	949	4.03	34.421		3.24	127.	0.05	42.9	74.0	800	4.46	34.373	0.72	27.261	82.0	1.145
	1156	3.50	34.453	0.86	3.17		0.01	43.5	66.5	1000	3.89	34.433	0.80	27.369	71.8	1.315

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						60070			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 14.5N	124 21.5W	3/ 4/72	1455	GMT	4111M	340	13KT	4	340 12 5						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.92	32.80		24.920	304.4	0.000
									10	11.92	32.80		24.920	304.4	0.030
									20	11.89	32.60		24.925	303.9	0.061
									30	11.48	32.79		24.993	297.5	0.091
									50	10.37	32.89		25.266	271.5	0.148
									75	9.51	33.31		25.737	226.7	0.211
									100	9.07	33.59		26.026	199.2	0.264
									125	8.76	33.80		26.239	179.0	0.312
									150	8.55	33.86		26.318	171.5	0.357
									200	7.79	33.97		26.518	152.5	0.439
									250	7.29	34.00		26.613	143.4	0.515
									300	6.49	33.99		26.714	133.8	0.586
									400	5.68	34.06		26.873	118.8	0.717
									500	5.26	34.16		27.002	106.5	0.835
									600	4.83	34.24		27.115	95.8	0.942
									700	4.44	34.28		27.190	88.7	1.041
									800	4.17	34.36		27.282	80.0	1.133
									1000	3.74	34.45		27.398	69.0	1.298

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						60080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 56.0N	125 04.0W	3/ 4/72	1945	GMT	4493M	350	8KT	4	350 15 6						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.01	32.79		24.895	306.8	0.000
									10	11.89	32.80		24.925	303.9	0.031
									20	11.30	32.81		25.041	292.9	0.060
									30	10.72	32.85		25.175	280.2	0.089
									50	10.15	33.00		25.389	259.8	0.143
									75	9.60	33.34		25.745	225.9	0.204
									100	9.44	33.48		25.880	213.0	0.260
									125	8.94	33.68		26.116	190.6	0.311
									150	8.49	33.82		26.296	173.6	0.357
									200	7.82	33.96		26.506	153.6	0.440
									250	7.05	33.98		26.631	141.7	0.516
									300	6.37	33.99		26.730	132.3	0.586
									400	5.32	34.05		26.908	115.5	0.714
									500	5.15	34.20		27.046	102.3	0.828
									600	4.83	34.27		27.139	93.6	0.933
									700	4.43	34.34		27.238	84.1	1.028
									800	4.13	34.36		27.286	79.6	1.117
									1000	3.60	34.45		27.412	67.7	1.280
									1200	3.17	34.50		27.493	60.0	1.424

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						60080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 56.0N	125 04.0W	3/ 4/72	2139	GMT	4493M	350	8KT	4	350 15 6						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.06	32.824	6.39	24.912	305.2	0.000
									10	11.92	32.827	6.47	24.941	302.5	0.030
									20	11.41	32.831	6.57	25.037	293.2	0.060
									30	10.80	32.844	6.61	25.154	282.1	0.089
									50	10.00	32.980	6.25	25.397	259.0	0.143
									75	9.67	33.290	5.59	25.693	230.8	0.205
									100	9.22	33.430	4.78	25.877	213.4	0.261
									125	8.70	33.816	3.70	26.260	177.0	0.311
									150	8.33	33.880	3.46	26.366	166.9	0.355
									200	7.66	33.965	3.22	26.532	151.2	0.436
									250	7.01	33.987	2.72	26.641	140.8	0.511
									300	6.38	34.004	2.16	26.738	131.6	0.581
									400	5.28	34.055	1.19	26.916	114.7	0.708
									500	5.20	34.200	0.65	27.039	103.0	0.822
									600	4.88	34.289	0.53	27.147	92.8	0.926
									700	4.43	34.337	0.50	27.235	84.5	1.022
									800	4.03	34.369	0.54	27.303	78.0	1.110
									1000	3.55	34.454	0.70	27.419	67.0	1.270

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						60090			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 37.0N	125 47.0W	3/ 5/72	0125	GMT	4684M	360	10KT	4	320 12 9						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.45	32.82		24.835	312.5	0.000
									10	12.35	32.80		24.839	312.2	0.031
									20	11.62	32.81		24.983	298.4	0.062
									30	10.85	32.82		25.129	284.6	0.091
									50	9.95	33.11		25.508	248.4	0.144
									75	9.47	33.32		25.751	225.4	0.204
									100	9.10	33.56		25.998	201.9	0.258
									125	8.59	33.81		26.273	175.8	0.306
									150	8.08	33.91		26.428	161.0	0.348
									200	7.42	33.94		26.548	149.6	0.427
									250	6.84	33.95		26.636	141.3	0.502
									300	6.32	34.01		26.752	130.2	0.572
									400	5.64	34.08		26.893	116.9	0.700
									500	4.80	34.12		27.023	104.5	0.815
									600	4.68	34.24		27.132	94.2	0.921
									700	4.46	34.32		27.219	85.9	1.017
									800	4.12	34.37		27.295	78.7	1.107
									1000	3.68	34.45		27.404	68.4	1.270

RV DAVID STARR JORDAN							CALCOFI CRUISE 7203							63052	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 19.0N	122 36.0W	3/ 6/72	0415	6MT	86M	330	19KT								
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	11.33	33.001	7.17	0.39	3.	0.10	3.4	279.3	0	11.33	33.001	7.17	25.184	279.3	0.000
10	11.26	33.054	7.09	0.41	3.	0.10	2.7	275.7	10	11.26	33.034	7.09	25.222	275.7	0.028
19	10.83	33.305	6.53	0.49	4.	0.13	4.7	248.4	20	10.81	33.321	6.47	25.523	247.1	0.054
29	10.74	33.397	5.95	0.73	8.	0.21	8.4	240.1	30	10.72	33.407	5.90	25.605	239.2	0.078
49	10.27	33.554	4.93	1.20	15.	0.16	14.5	220.7	50	10.23	33.564	4.87	25.813	219.4	0.124
74	9.34	33.754	3.72	1.70		0.13	20.7	191.2	75	9.32	33.760	3.70	26.118	190.4	0.176

RV DAVID STARR JORDAN							CALCOFI CRUISE 7203							63052	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 19.0N	122 36.0W	3/ 6/72	0453	6MT	86M	330	19KT								
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	11.36	32.95								11.36	32.95		25.139	283.6	0.000
10	11.34	32.97								11.34	32.97		25.158	281.8	0.028
20	10.84	33.29								10.84	33.29		25.495	249.7	0.055
30	10.73	33.33								10.73	33.33		25.546	244.9	0.080
50	10.38	33.54								10.38	33.54		25.770	223.6	0.127
75	9.38	33.75								9.38	33.75		26.101	192.1	0.179

RV DAVID STARR JORDAN							CALCOFI CRUISE 7203							63055	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 13.0N	122 50.0W	3/ 6/72	0145	6MT	259M	330	18KT	4	330 7 7						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	11.83	33.21								11.83	33.21		25.254	272.6	0.000
10	11.83	33.21								11.83	33.21		25.254	272.6	0.027
20	11.64	33.24								11.64	33.24		25.314	266.9	0.054
30	11.59	33.27								11.59	33.27		25.345	264.0	0.081
50	11.30	33.47								11.30	33.47		25.553	244.2	0.132
75	10.65	33.51								10.65	33.51		25.700	230.2	0.192
100	9.66	33.72								9.66	33.72		26.031	196.7	0.246
125	8.88	33.89								8.88	33.89		26.290	174.1	0.293
150	8.13	34.01								8.13	34.01		26.499	154.3	0.334
200	7.48	34.03								7.48	34.03		26.610	143.7	0.410
250	7.27	34.05								7.27	34.05		26.655	139.4	0.483

RV DAVID STARR JORDAN							CALCOFI CRUISE 7203							63060	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 03.0N	123 12.0W	3/ 5/72	2202	6MT	2410M	340	14KT	1	330 4 7						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	12.09	33.03								12.09	33.03		25.066	290.5	0.000
10	12.04	33.04								12.04	33.04		25.083	288.9	0.029
20	11.91	33.05								11.91	33.05		25.115	285.9	0.058
30	11.77	33.27								11.77	33.27		25.311	267.1	0.085
50	11.14	33.45								11.14	33.45		25.566	242.9	0.137
75	10.45	33.49								10.45	33.49		25.719	226.4	0.196
100	9.54	33.67								9.54	33.67		26.012	200.5	0.250
125	9.13	33.87								9.13	33.87		26.235	179.4	0.298
150	8.83	33.96								8.83	33.96		26.353	168.2	0.342
200	8.27	34.05								8.27	34.05		26.509	153.3	0.424
250	7.62	34.07								7.62	34.07		26.621	142.7	0.500
300	7.15	34.09								7.15	34.09		26.704	134.9	0.572
400	6.46	34.21								6.46	34.21		26.891	117.0	0.703
500	5.86	34.25								5.86	34.25		27.000	106.7	0.821
600	5.29	34.31								5.29	34.31		27.117	95.6	0.929
700	4.89	34.36								4.89	34.36		27.203	87.5	1.028
800	4.58	34.40								4.58	34.40		27.269	81.2	1.120
1000	4.02	34.46								4.02	34.46		27.377	71.0	1.289

RV DAVID STARR JORDAN							CALCOFI CRUISE 7203							63060	
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
37 03.0N	123 12.0W	3/ 5/72	2305	6MT	2410M	340	14KT	1	330 4 7						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	12.07	33.062	6.59	0.35	4.	0.03	0.9	287.8	0	12.07	33.062	6.59	25.094	287.8	0.000
10	12.04	33.062	6.50	0.35	4.	0.03	0.6	287.3	10	12.04	33.062	6.50	25.100	287.3	0.029
30	11.72	33.364	6.64	0.41	3.	0.10	1.6	259.3	20	11.91	33.100	6.57	25.154	282.2	0.057
60	10.94	33.493	5.93	0.84	10.	0.42	7.9	236.3	30	11.72	33.364	6.64	25.393	259.3	0.084
80	10.26	33.556	4.87	1.16	15.	0.09	13.3	220.4	50	11.23	33.474	6.29	25.568	242.7	0.135
95	9.67	33.651	4.20	1.44	20.	0.04	16.8	203.9	75	10.44	33.537	5.15	25.755	224.9	0.194
110	9.49	33.758	3.80	1.64	24.	0.05	21.7	193.2	100	9.59	33.689	4.05	26.017	200.1	0.247
140	8.88	33.925	2.93	1.86	31.	0.02	23.8	171.5	125	9.19	33.855	3.34	26.212	181.5	0.295
164	8.56	33.961	2.61	1.96	34.	0.01	22.6	164.1	150	8.73	33.945	2.78	26.355	167.9	0.340
194	8.30	34.046	2.20	2.11	38.	0.00	25.7	154.8	200	8.24	34.044	2.22	26.509	153.3	0.422
228	7.92	34.062	2.43	2.25	44.	0.00	29.1	147.4	250	7.65	34.072	2.38	26.618	142.9	0.498
298	7.09	34.092	2.04	2.47	54.	0.00	31.6	133.9	300	7.07	34.095	2.02	26.717	133.6	0.569
404	6.45	34.198	1.02	2.88	69.	0.00	38.2	117.8	400	6.47	34.195	1.06	26.878	118.3	0.700
511	5.75	34.249	0.84	3.09	85.	0.00	37.6	105.5	500	5.82	34.246	0.84	27.001	106.6	0.819
644	5.12	34.323	0.36	3.16	97.	0.00	37.4	92.8	600	5.31	34.299	0.50	27.105	96.7	0.927
800	4.51	34.406	0.51	3.23	110.	0.01	40.6	80.0	700	4.89	34.356	0.41	27.200	87.8	1.027
965	4.00	34.453	0.74	3.19	125.	0.00	43.2	71.3	800	4.51	34.406	0.51	27.282	80.0	1.118
1173	3.43	34.418	0.85	3.14	151.	0.00	41.8		1000	3.90	34.455	0.92	27.385	70.2	1.286

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						63070			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 42.5N	123 55.0W	3/ 5/72	1612	GMT	4111M	350	15KT	1	350	7	5				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	11.78	32.73		24.892	307.1	0.000
									10	11.78	32.73		24.892	307.1	0.031
									20	11.56	32.72		24.924	304.0	0.061
									30	10.74	32.70		25.055	291.6	0.091
									50	10.56	32.91		25.249	273.1	0.148
									75	9.55	33.09		25.559	243.6	0.213
									100	9.29	33.43		25.866	214.4	0.270
									125	8.65	33.72		26.193	183.3	0.321
									150	8.49	33.87		26.335	169.8	0.365
									200	7.68	33.98		26.542	150.2	0.447
									250	7.12	34.04		26.668	138.2	0.521
									300	6.88	34.14		26.780	127.6	0.589
									400	6.13	34.18		26.911	115.2	0.716
									500	5.49	34.23		27.030	103.9	0.831
									600	5.15	34.31		27.133	94.1	0.936
									700	4.78	34.36		27.215	86.3	1.034
									800	4.47	34.40		27.281	80.0	1.125
									1000	3.77	34.48		27.418	67.0	1.288

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						63080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 23.0N	124 38.5W	3/ 5/72	1117	GMT	4111M	360	18KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.34	32.74		24.794	316.4	0.000
									10	12.34	32.75		24.802	315.7	0.032
									20	12.24	32.73		24.806	315.3	0.063
									30	11.24	32.67		24.943	302.2	0.094
									50	10.31	32.77		25.183	279.4	0.152
									75	9.75	32.98		25.440	254.9	0.220
									100	9.08	33.07		25.618	238.0	0.282
									125	9.29	33.54		25.951	206.3	0.338
									150	8.62	33.73		26.205	182.1	0.387
									200	7.91	33.94		26.477	156.4	0.473
									250	7.24	33.95		26.581	146.5	0.550
									300	6.61	33.98		26.691	136.1	0.623
									400	5.77	34.06		26.861	119.9	0.756
									500	5.04	34.13		27.004	106.4	0.874
									600	4.75	34.23		27.116	95.7	0.981
									700	4.34	34.30		27.216	86.2	1.079
									800	3.97	34.36		27.303	78.0	1.168
									1000	3.56	34.45		27.416	67.3	1.328

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						63090			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 03.0N	125 20.0W	3/ 5/72	0613	GMT	4140M	350	12KT	4							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.82	32.89		24.818	314.2	0.000
									10	12.82	32.90		24.825	313.4	0.031
									20	12.81	32.90		24.827	313.2	0.063
									30	12.75	32.92		24.858	310.3	0.094
									50	12.81	33.06		24.951	301.5	0.155
									75	12.16	32.96		24.998	297.0	0.231
									100	11.56	33.01		25.149	282.6	0.303
									125	9.22	33.06		25.588	240.8	0.369
									150	8.94	33.41		25.906	210.6	0.427
									200	8.27	33.91		26.400	163.7	0.522
									250	7.34	33.94		26.559	148.6	0.602
									300	6.65	33.95		26.662	138.8	0.675
									400	5.70	34.03		26.846	121.3	0.810
									500	4.90	34.09		26.988	107.8	0.930
									600	4.65	34.22		27.119	95.4	1.037
									700	4.53	34.32		27.212	86.7	1.135
									800	4.28	34.37		27.278	80.3	1.226
									1000	3.72	34.45		27.400	68.8	1.391

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						67050			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
36 48.0N	122 05.0W	3/ 6/72	1120	GMT	371M	300	5KT	4							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	10.86	33.49		25.647	235.2	0.000
									10	10.80	33.52		25.681	232.0	0.023
									20	10.61	33.51		25.707	229.6	0.046
									30	10.59	33.51		25.710	229.2	0.069
									50	9.94	33.66		25.938	207.6	0.113
									75	9.02	33.86		26.244	178.4	0.162
									100	8.55	33.98		26.412	162.6	0.205
									125	8.44	34.03		26.468	157.2	0.245
									150	8.22	34.06		26.525	151.8	0.285
									200	7.99	34.08		26.575	147.1	0.361
									250	7.68	34.11		26.644	140.5	0.435

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						67050
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
36 48.0N		122 05.0W		3/ 6/72		1202 GMT			371M	300	5KT	4				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	10.73	33.511	5.37	1.20	16.	0.29	12.0	231.5	0	10.73	33.511	5.37	25.686	231.5	0.000	
10	10.67	33.512	5.38	1.23	16.	0.30	11.0	230.4	10	10.67	33.512	5.38	25.698	230.4	0.023	
30	10.58	33.512	5.29	1.32	16.	0.30	10.8	228.9	20	10.63	33.514	5.34	25.705	229.7	0.046	
50	9.97	33.644	4.48	1.48	21.	0.12	16.3	209.2	30	10.58	33.512	5.29	25.713	228.9	0.069	
81	8.76	33.909	2.93	1.97	30.	0.02	24.8	170.9	50	9.97	33.644	4.48	25.920	209.2	0.113	
110	8.55	33.987	2.76	2.30	40.	0.04	27.9	162.0	75	8.97	33.863	3.19	26.254	177.5	0.162	
149	8.27	34.054	2.49	2.08	35.	0.02	27.6	154.5	100	8.62	33.983	2.82	26.402	163.5	0.205	
199	7.95	34.071	2.28	2.36	44.	0.01	28.0	147.2	125	8.44	34.011	2.65	26.452	158.7	0.246	
248	7.79	34.090	1.91	2.51	46.	0.00	29.0	143.5	150	8.26	34.036	2.49	26.499	154.3	0.285	
297	7.33	34.124	2.05	2.62	54.	0.00	33.1	134.7	200	7.95	34.073	2.27	26.574	147.1	0.362	
									250	7.77	34.091	1.92	26.615	143.3	0.437	
									300	7.31	34.130	2.04	26.712	134.0	0.508	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						67055
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
36 39.0N		122 26.0W		3/ 6/72		1437 GMT			2130M	310	17KT	2	310 7 6			
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	11.74	33.25							0	11.74	33.25		25.301	268.1	0.000	
10	11.74	33.27							10	11.74	33.27		25.317	266.6	0.027	
20	11.74	33.27							20	11.74	33.27		25.317	266.6	0.053	
30	11.53	33.33							30	11.53	33.33		25.402	258.5	0.080	
50	10.95	33.37							50	10.95	33.37		25.538	245.6	0.130	
75	10.43	33.49							75	10.43	33.49		25.722	228.1	0.190	
104	9.54	33.74							104	9.54	33.74		26.067	195.3	0.243	
125	9.01	33.84							125	9.01	33.84		26.230	179.8	0.291	
150	8.70	33.96							150	8.70	33.96		26.373	166.2	0.335	
200	8.14	34.04							200	8.14	34.04		26.521	152.2	0.416	
250	7.62	34.05							250	7.62	34.05		26.605	144.2	0.492	
300	6.94	34.05							300	6.94	34.05		26.701	135.1	0.564	
400	5.99	34.11							400	5.99	34.11		26.873	118.7	0.695	
500	5.72	34.23							500	5.72	34.23		27.002	106.6	0.814	
600	5.36	34.29							600	5.36	34.29		27.093	97.9	0.923	
700	5.06	34.33							700	5.06	34.33		27.160	91.6	1.025	
800	4.73	34.38							800	4.73	34.38		27.237	84.3	1.121	
1000	4.05	34.44							1000	4.05	34.44		27.358	72.8	1.296	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						67060
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
36 29.0N		122 47.0W		3/ 6/72		1751 GMT			3069M	340	17KT	0	340 7 7			
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	12.07	33.27							0	12.07	33.27		25.255	272.5	0.000	
10	12.04	33.27							10	12.04	33.27		25.261	272.0	0.027	
20	12.04	33.28							20	12.04	33.28		25.269	271.2	0.054	
30	12.02	33.28							30	12.02	33.28		25.272	270.9	0.082	
50	10.90	33.36							50	10.90	33.36		25.359	245.5	0.133	
75	10.00	33.44							75	10.00	33.44		25.757	224.8	0.193	
100	9.40	33.58							100	9.40	33.58		25.965	205.0	0.247	
125	8.92	33.76							125	8.92	33.76		26.182	184.4	0.296	
150	8.71	33.93							150	8.71	33.93		26.348	168.6	0.341	
200	7.85	34.03							200	7.85	34.03		26.556	148.8	0.422	
250	7.19	34.01							250	7.19	34.01		26.635	141.3	0.496	
300	7.14	34.12							300	7.14	34.12		26.729	132.5	0.566	
400	6.38	34.17							400	6.38	34.17		26.870	119.0	0.697	
500	5.82	34.24							500	5.82	34.24		26.997	107.0	0.816	
600	5.46	34.33							600	5.46	34.33		27.112	96.1	0.925	
700	4.95	34.36							700	4.95	34.36		27.196	88.1	1.024	
800	4.71	34.40							800	4.71	34.40		27.255	82.6	1.118	
1000	3.99	34.45							1000	3.99	34.45		27.372	71.4	1.289	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						67060
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
36 29.0N		122 47.0W		3/ 6/72		1858 GMT			3069M	340	17KT	0	340 7 7			
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
1	12.09	33.276	6.46	0.49	4.	0.10	3.0	272.4	0	12.09	33.276	6.46	25.256	272.4	0.000	
11	12.08	33.273	6.27	0.47	4.	0.07	2.6	272.5	10	12.08	33.275	6.28	25.256	272.4	0.027	
30	11.94	33.277	6.47	0.51	6.	0.10	3.4	269.7	20	12.01	33.277	6.35	25.270	271.1	0.054	
60	10.56	33.461	5.69	1.01	6.	0.05	10.5	232.4	30	11.94	33.277	6.47	25.285	269.7	0.082	
79	9.66	33.461	4.92	1.30	15.	0.02	14.5	217.9	50	11.10	33.401	6.05	25.533	246.0	0.133	
94	9.43	33.544	4.60	1.45	19.	0.03	17.8	208.1	75	9.82	33.461	5.07	25.802	220.5	0.192	
109	9.31	33.635	4.10	1.60	20.	0.02	19.6	199.5	100	9.38	33.581	4.40	25.967	204.8	0.246	
138	8.83	33.856	3.42	1.87	28.	0.01	23.6	175.9	125	9.05	33.760	3.70	26.160	186.5	0.295	
162	8.60	33.975	2.89	2.07	35.	0.00	27.0	163.7	150	8.71	33.926	3.14	26.343	169.1	0.340	
193	8.16	34.012	2.45	2.17	39.	0.01	28.5	154.5	200	8.02	34.012	2.48	26.515	152.7	0.422	
226	7.51	33.999	2.63	2.24	44.	0.02	30.3	146.5	250	7.19	34.015	2.42	26.638	141.0	0.497	
294	6.79	34.061	1.82	2.58	58.	0.01	35.5	132.3	300	6.75	34.069	1.76	26.740	131.4	0.568	
400	6.33	34.169	0.94	2.93	69.	0.00	39.2	118.5	400	6.33	34.169	0.94	26.876	118.5	0.697	
507	5.77	34.246	0.70	3.13	82.	0.01	38.1	106.0	500	5.81	34.242	0.71	27.000	106.7	0.816	
641	5.27		0.40	3.23	95.	0.00	38.1		600	5.41	34.307	0.48	27.100	97.3	0.925	
793	4.68	34.388	0.37	3.33	105.	0.00	43.0	83.1	700	5.04	34.358	0.39	27.184	89.3	1.026	
954	4.07	34.432	0.47	3.33	121.	0.00	44.8	73.6	800	4.65	34.391	0.37	27.254	82.7	1.120	
1152	3.49	34.494	0.88	3.29	135.	0.02	43.2	63.4	1000	3.92	34.447	0.54	27.376	71.1	1.291	

RV DAVID STARR JORDAN				CALCOFI CRUISE 7203				67070							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
36 08.0N	123 29.5W	3/ 6/72	2358 GMT	3674M	350	19KT	0	340	6	6					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
									0	12.18	33.22		25.196	278.2	0.000
									10	12.18	33.23		25.203	277.4	0.028
									20	12.13	33.23		25.213	276.5	0.056
									30	11.81	33.31		25.335	264.9	0.083
									50	10.56	33.33		25.575	242.0	0.134
									75	9.76	33.66		25.968	204.7	0.190
									100	9.31	33.74		26.104	191.8	0.240
									125	9.03	33.85		26.235	179.3	0.287
									150	8.43	33.88		26.352	168.2	0.331
									200	8.03	34.05		26.545	149.9	0.412
									250	7.50	34.09		26.654	139.5	0.486
									300	7.02	34.12		26.745	130.9	0.556
									400	6.14	34.15		26.886	117.6	0.685
									500	5.62	34.25		27.030	103.9	0.802
									600	5.14	34.30		27.127	94.7	0.907
									700	4.76	34.36		27.218	86.1	1.005
									800	4.48	34.42		27.296	78.6	1.095
									1000	3.84	34.49		27.419	67.0	1.258

RV DAVID STARR JORDAN				CALCOFI CRUISE 7203				67080							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
35 48.0N	124 12.0W	3/ 7/72	0550 GMT	4111M	340	17KT									
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
									0	12.87	32.92		24.831	312.9	0.000
									10	12.87	32.92		24.831	312.9	0.031
									20	12.87	32.93		24.839	312.2	0.063
									30	12.87	32.93		24.839	312.2	0.094
									50	12.79	32.94		24.862	309.9	0.156
									75	11.72	32.83		24.980	298.7	0.233
									100	11.15	32.94		25.169	280.7	0.306
									125	10.02	33.04		25.442	254.7	0.373
									150	9.15	33.26		25.756	224.9	0.434
									200	8.74	33.82		26.257	177.2	0.536
									250	7.83	33.93		26.481	156.0	0.621
									300	7.25	34.03		26.642	140.7	0.698
									400	6.08	34.07		26.830	122.8	0.834
									500	5.48	34.16		26.976	109.0	0.956
									600	4.87	34.22		27.094	97.8	1.065
									700	4.53	34.32		27.212	86.7	1.164
									800	4.29	34.39		27.293	78.9	1.255
									1000	3.71	34.45		27.401	68.7	1.418

RV DAVID STARR JORDAN				CALCOFI CRUISE 7203				67090							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
35 28.0N	124 55.0W	3/ 7/72	0944 GMT	4309M	010	15KT									
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
									0	13.15	32.92		24.776	318.1	0.000
									10	13.14	32.93		24.785	317.2	0.032
									20	13.15	32.93		24.783	317.4	0.064
									30	13.10	32.93		24.793	316.5	0.095
									50	12.31	32.99		24.993	297.5	0.157
									75	11.68	33.04		25.150	282.5	0.230
									100	10.94	33.10		25.330	265.4	0.299
									125	10.12	33.19		25.542	245.2	0.363
									150	9.45	33.37		25.793	221.3	0.422
									200	8.67	33.82		26.268	176.2	0.523
									250	8.25	33.99		26.465	157.5	0.609
									300	7.48	34.03		26.610	143.7	0.686
									400	6.59	34.11		26.795	126.1	0.826
									500	5.79	34.16		26.938	112.6	0.952
									600	5.24	34.25		27.075	99.6	1.065
									700	4.69	34.31		27.186	89.1	1.166
									800	4.42	34.39		27.279	80.3	1.258
									1000	3.77	34.45		27.395	69.3	1.424

RV DAVID STARR JORDAN				CALCOFI CRUISE 7203				70053							
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
36 06.5N	121 54.5W	3/ 8/72	1146 GMT	925M	130	15KT									
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
									0	10.94	33.50		25.641	235.8	0.000
									10	10.94	33.50		25.641	235.8	0.024
									20	10.90	33.50		25.648	235.2	0.047
									30	10.39	33.60		25.815	219.3	0.070
									50	9.99	33.70		25.961	205.4	0.113
									75	9.72	33.78		26.068	195.2	0.163
									100	9.32	33.87		26.204	182.3	0.211
									125	8.78	33.98		26.376	166.0	0.255
									150	8.68	34.05		26.446	159.3	0.296
									200	8.29	34.12		26.561	148.4	0.374
									250	7.92	34.13		26.624	142.4	0.449
									300	7.45	34.14		26.700	135.1	0.521
									400	6.65	34.18		26.842	121.7	0.654
									500	5.89	34.25		26.996	107.1	0.775
									600	5.42	34.30		27.093	97.9	0.884
									700	5.05	34.34		27.169	90.7	0.986

RV DAVID STARR JORDAN									CALCOFI CRUISE 7203							70053
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
36 06.5N	121 54.5W	3/ 8/72			1300	GMT		925M	130	15KT		O2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
2	10.97	33.513	6.00	0.88	10.	0.00	9.3	235.4	0	10.97	33.513	6.00	25.645	235.4	0.000	
12	10.90	33.526	5.65	0.94	12.	0.25	9.1	233.2	10	10.91	33.526	5.73	25.665	233.5	0.023	
32	10.18	33.660	4.51	1.39	20.	0.07	18.0	211.4	20	10.90	33.530	5.20	25.671	232.9	0.047	
62	9.75	33.768	3.77	1.64	24.	0.04	20.5	196.5	30	10.32	33.636	4.63	25.854	215.6	0.069	
82	9.48	33.827	3.38	1.77	26.	0.03	22.9	187.9	50	9.92	33.773	3.99	26.028	199.0	0.111	
97	9.41	33.857	2.94	1.81	28.	0.04	22.6	184.6	75	9.56	33.810	3.52	26.116	190.6	0.161	
111	9.15	33.950	2.93	1.96	31.	0.03	23.9	175.2	100	9.36	33.873	2.94	26.199	182.8	0.208	
141	8.70	34.026	2.53	2.12	36.	0.00	23.6	161.3	125	8.91	33.985	2.76	26.358	167.7	0.252	
166	8.55	34.062	2.44	2.27	39.	0.01	28.8	156.5	150	8.64	34.043	2.49	26.447	159.2	0.294	
195	8.35	34.098	2.26	2.37	42.	0.03	28.7	150.9	200	8.31	34.101	2.24	26.542	150.2	0.373	
230	8.08	34.108	2.15	2.45	45.	0.00	30.3	146.3	250	7.89	34.117	2.03	26.618	142.9	0.448	
299	7.40	34.159	1.66	2.64	39.0	0.00	32.0	134.5	300	7.39	34.141	1.65	26.708	134.4	0.519	
406	6.62	34.187	0.96	2.93	69.	0.00	37.1	120.8	400	6.66	34.185	0.99	26.845	121.5	0.653	
512	5.79	34.249	0.58	3.18	83.	0.00	36.0	106.0	500	5.88	34.243	0.61	26.991	107.5	0.773	
646	5.28	34.316	0.49	3.22	95.	0.05	42.9	95.1	600	5.42	34.295	0.52	27.089	98.3	0.883	
798	4.69	34.389	0.36	3.31	110.	0.00	42.2	83.2	700	5.09	34.338	0.44	27.162	91.6	0.986	
									800	4.68	34.391	0.55	27.251	82.9	1.081	

RV DAVID STARR JORDAN									CALCOFI CRUISE 7203							70060
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
35 53.0N	122 22.0W	3/ 8/72			0723	GMT		3164M	190	13KT		O2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.16	33.20		25.184	279.3	0.000	
									10	12.16	33.20		25.184	279.3	0.028	
									20	12.16	33.23		25.207	277.1	0.056	
									30	12.01	33.34		25.321	266.3	0.083	
									50	11.41	33.42		25.494	249.8	0.135	
									70	10.51	33.58		25.778	222.7	0.194	
									100	9.90	33.74		26.007	201.0	0.248	
									125	9.46	33.90		26.205	182.2	0.296	
									150	9.06	34.00		26.347	168.7	0.341	
									200	8.76	34.06		26.442	159.7	0.424	
									250	8.36	34.10		26.535	150.9	0.504	
									300	7.88	34.17		26.662	138.8	0.579	
									400	6.63	34.15		26.822	123.6	0.716	
									500	6.07	34.23		26.958	110.7	0.839	
									600	5.51	34.31		27.091	98.1	0.950	
									700	5.06	34.35		27.175	90.1	1.052	
									800	4.66	34.39		27.253	82.8	1.147	
									1000	4.09	34.45		27.362	72.4	1.320	

RV DAVID STARR JORDAN									CALCOFI CRUISE 7203							70060
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
35 53.0N	122 22.0W	3/ 8/72			0838	GMT		3164M	190	13KT		O2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	12.13	33.214	6.38	0.41	5.	0.09	1.5	277.7	0	12.13	33.214	6.38	25.201	277.7	0.000	
10	12.13	33.212	6.32	0.41	5.	0.08	1.3	277.9	10	12.13	33.212	6.32	25.199	277.9	0.028	
30	11.95	33.341	6.30	0.47	5.	0.16	2.4	265.1	20	12.13	33.224	6.31	25.208	277.0	0.056	
60	11.10	33.480	5.79	0.82	9.	0.10	7.9	240.0	30	11.95	33.341	6.30	25.333	265.1	0.083	
80	10.37	33.602	4.61	1.26	16.	0.04	14.5	218.8	50	11.43	33.450	5.96	25.513	248.0	0.134	
95	9.87	33.770	3.63	1.60	22.	0.02	18.8	198.3	75	10.56	33.567	4.94	25.759	224.6	0.194	
110	9.55	33.866	3.24	1.77	26.	0.02	21.5	186.1	100	9.75	33.809	3.46	26.085	193.6	0.246	
140	9.16	33.961	3.05	1.93	31.	0.00	21.1	173.1	125	9.33	33.924	3.11	26.244	178.5	0.293	
164	8.91	34.019	2.75	2.07	34.	0.03	26.5	165.0	150	9.04	33.989	2.93	26.341	169.3	0.338	
194	8.81	34.044	2.42	2.09	36.	0.02	25.7	161.6	200	8.77	34.052	2.39	26.432	160.6	0.422	
229	8.56	34.090	2.29	2.29	39.	0.02	27.6	154.5	250	8.36	34.116	2.14	26.547	149.7	0.501	
297	7.85	34.157	1.78	2.51	50.	0.00	30.3	139.4	300	7.82	34.158	1.77	26.660	138.9	0.576	
405	6.76	34.138	1.30	2.74	62.	0.00	35.8	126.2	400	6.81	34.140	1.32	26.790	126.7	0.714	
512	6.04	34.223	0.61	3.02	78.	0.01	34.2	110.9	500	6.11	34.212	0.68	26.938	112.6	0.840	
647	5.30	34.321	0.38	3.18	94.	0.00	43.0	94.9	600	5.54	34.290	0.41	27.071	100.0	0.953	
803	4.64	34.391	0.35	3.23	110.	0.00	42.1	82.5	700	5.06	34.349	0.37	27.174	90.2	1.056	
969	4.07	34.455	0.54	3.26	122.	0.00	43.4	71.8	800	4.65	34.391	0.35	27.254	82.7	1.151	
1176	3.45	34.457	0.99	3.18	131.	0.00	40.8	65.8	1000	3.97	34.462	0.59	27.383	70.4	1.321	

RV DAVID STARR JORDAN									CALCOFI CRUISE 7203							70070
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
35 53.0N	123 06.0W	3/ 8/72			0145	GMT		3844M	210	8KT	2	O2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.18	33.01		25.033	293.6	0.000	
									10	12.30	33.10		25.080	289.2	0.029	
									20	12.27	33.12		25.101	287.2	0.058	
									30	12.25	33.13		25.113	286.1	0.087	
									50	10.51	33.16		25.452	253.8	0.141	
									75	9.76	33.35		25.727	227.7	0.201	
									100	9.28	33.67		26.054	196.5	0.255	
									125	9.18	33.87		26.227	180.1	0.302	
									150	8.77	33.93		26.338	169.5	0.347	
									200	7.87	34.01		26.538	150.6	0.428	
									250	7.07	34.01		26.652	139.8	0.503	
									300	6.81	34.08		26.742	131.2	0.573	
									400	6.52	34.20		26.876	118.5	0.702	
									500	5.79	34.24		27.001	106.6	0.821	
									600	5.01	34.26		27.110	96.3	0.929	
									700	4.70	34.33		27.201	87.7	1.028	
									800	4.41	34.39		27.280	80.2	1.120	
									1000	3.80	34.45		27.392	69.6	1.286	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203				70080		
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 13.0N		123 48.0W		3/ 7/72		1947		GMT	4213M	160	1KT	0	310 4 5			
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.30	32.94		24.956	300.9	0.000	
									10	11.92	32.96		25.044	292.7	0.030	
									20	11.93	33.01		25.080	289.2	0.059	
									30	12.06	33.11		25.133	284.1	0.088	
									50	11.37	33.08		25.238	274.2	0.144	
									75	11.19	33.44		25.549	244.5	0.209	
									100	11.20	33.51		25.602	239.5	0.270	
									125	10.05	33.61		25.884	212.7	0.327	
									150	8.83	33.68		26.134	189.0	0.378	
									200	8.05	33.93		26.448	159.1	0.466	
									250	7.41	33.98		26.581	146.5	0.545	
									300	6.65	34.02		26.717	133.6	0.617	
									400	5.91	34.08		26.860	120.0	0.748	
									500	5.46	34.18		26.994	107.3	0.867	
									600	5.14	34.28		27.111	96.2	0.976	
									700	4.73	34.35		27.213	86.5	1.074	
									800	4.43	34.40		27.286	79.6	1.165	
									1000	3.86	34.46		27.394	69.4	1.331	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203				70080		
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 13.0N		123 48.0W		3/ 7/72		2112		GMT	4213M	160	1KT	0	310 4 5			
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	12.50	32.944	6.37	0.55	3.	0.03	0.4	304.3	0	12.50	32.944	6.37	24.921	304.3	0.000	
10	11.89	32.978	6.43	0.42	4.	0.03	0.4	290.8	10	11.89	32.978	6.43	25.063	290.8	0.030	
30	12.09	33.128	6.32	0.44	4.	0.06	1.1	283.3	20	11.89	33.030	6.40	25.103	287.0	0.059	
60	10.37	33.039	6.07	0.70	6.	0.05	5.1	260.4	30	12.09	33.128	6.32	25.142	283.3	0.087	
80	11.19	33.443	6.02	0.77	8.	0.74	6.6	244.3	50	10.94	33.051	6.15	25.291	269.1	0.143	
95	11.19	33.499	6.06	0.80	9.	0.72	7.2	240.2	75	10.96	33.343	6.03	25.515	247.8	0.208	
111	10.56	33.570	4.96	1.18	14.	0.03	12.8	224.3	100	11.04	33.523	5.75	25.639	236.0	0.269	
139	8.82	33.673	4.24	1.52	22.	0.01	17.0	189.3	120	9.66	33.616	4.47	25.949	206.5	0.324	
165	8.36	33.844	4.06	1.61	27.	0.00	20.9	169.9	150	8.55	33.750	4.14	26.231	179.7	0.373	
193	8.07	33.918	3.82	1.75	32.	0.00	22.3	160.3	200	8.00	33.934	3.65	26.458	158.2	0.459	
229	7.70	33.981	2.92	2.12	40.	0.00	27.6	150.4	250	7.42	33.994	2.69	26.588	145.8	0.537	
297	6.81	34.004	2.41	2.38	52.	0.00	30.6	136.8	300	6.78	34.008	2.37	26.689	136.3	0.610	
403	5.93	34.108	1.05	2.87	71.	0.00	37.4	118.2	400	5.95	34.106	1.09	26.874	118.7	0.742	
509	5.38	34.198	0.54	3.14	85.	0.00	37.0	105.0	500	5.42	34.192	0.56	27.007	106.0	0.860	
644	4.89		0.48	3.26	100.	0.00	42.7		600	5.04	34.278	0.50	27.120	95.3	0.967	
798	4.34	34.397	0.58	3.28	113.	0.00	43.1	78.9	700	4.68	34.348	0.50	27.216	86.2	1.065	
963	3.91	34.456	0.80	3.28	122.	0.00	44.2	70.2	800	4.33	34.398	0.58	27.294	78.8	1.155	
1170	3.39	34.422	0.98	3.14	129.	0.00	41.2		1000	3.82	34.460	1.00	27.398	69.0	1.319	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203				70090		
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
34 53.0N		124 29.0W		3/ 7/72		1440		GMT	4117M	010	6KT	4	010 5 4			
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	13.01	32.89		24.780	317.7	0.000	
									10	13.01	32.90		24.788	317.0	0.032	
									20	13.00	32.90		24.790	316.8	0.063	
									30	12.15	32.89		24.946	301.9	0.094	
									50	12.03	32.90		24.977	299.0	0.155	
									75	11.35	32.88		25.086	288.6	0.229	
									100	10.91	33.04		25.289	269.3	0.299	
									120	10.68	33.14		25.407	258.1	0.365	
									150	10.20	33.26		25.583	241.3	0.428	
									200	9.28	33.71		26.086	193.5	0.539	
									250	8.61	33.97		26.395	164.2	0.630	
									300	8.06	34.04		26.533	151.0	0.712	
									400	6.98	34.08		26.719	133.4	0.859	
									500	6.19	34.16		26.887	117.4	0.991	
									600	5.62	34.24		27.022	104.7	1.109	
									700	5.14	34.29		27.119	95.5	1.217	
									800	4.65	34.36		27.230	84.9	1.315	
									1000	3.98	34.44		27.365	72.1	1.490	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203				73053		
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 31.5N		121 28.5W		3/ 8/72		2044		GMT	741M	150	5KT	2	220 1 4			
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
									0	11.45	33.44		25.502	249.0	0.000	
									10	11.23	33.47		25.565	243.0	0.025	
									20	11.13	33.49		25.599	239.8	0.049	
									30	10.99	33.50		25.632	236.7	0.073	
									50	10.85	33.53		25.680	232.1	0.120	
									75	9.99	33.64		25.914	209.8	0.175	
									100	9.37	33.88		26.204	182.3	0.225	
									120	8.98	33.97		26.337	169.7	0.269	
									150	8.69	34.01		26.413	162.4	0.311	
									200	8.17	34.08		26.548	149.6	0.391	
									250	7.76	34.10		26.624	142.4	0.466	
									300	7.43	34.14		26.703	134.9	0.537	
									400	6.57	34.20		26.869	119.2	0.670	
									500	6.00	34.23		26.967	109.9	0.791	
									600	5.41	34.31		27.103	97.0	0.901	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						73053
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
35 31.5N	121 28.5W	3/ 8/72			2136	GMT	741M	150	5KT	2	220 1 4					
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	11.65	33.431	6.21	0.59	7.	0.18	4.3	253.2	0	11.65	33.431	6.21	25.458	253.2	0.000	
10	11.22	33.495	6.17	0.74	8.	0.21	4.8	241.0	10	11.22	33.495	6.17	25.586	241.0	0.025	
30	11.16	33.519	6.12	0.75	8.	0.21	7.0	238.2	20	11.19	33.509	6.15	25.601	239.6	0.049	
40	11.12	33.532	6.16	0.80	8.	0.22	6.6	236.5	30	11.16	33.519	6.12	25.616	238.2	0.073	
50	11.06	33.523	5.97	0.84	9.	0.22	8.1	236.2	50	11.06	33.523	5.97	25.637	236.2	0.120	
65	10.80	33.549	5.49	1.01	12.	0.14	9.8	229.9	75	10.39	33.602	4.74	25.815	219.2	0.178	
79	10.21	33.626	4.42	1.31	17.	0.03	13.9	214.4	100	9.64	33.771	3.58	26.074	194.6	0.230	
100	9.64	33.771	3.58	1.61	22.	0.02	14.7	194.6	125	9.16	33.933	2.85	26.278	175.2	0.277	
124	9.17	33.928	2.86	1.87	30.	0.00	23.7	175.7	150	8.85	33.992	2.67	26.373	166.2	0.320	
143	8.93	33.973	2.71	1.95	32.	0.02	21.8	168.7	200	8.18	34.081	2.18	26.546	149.8	0.400	
172	8.60	34.043	2.51	2.15	38.	0.00	26.8	158.6	250	7.71	34.114	1.75	26.642	140.7	0.475	
201	8.17	34.081	2.17	2.29	44.	0.00	25.9	149.5	300	7.24	34.158	1.56	26.743	131.1	0.545	
230	7.93	34.105	1.89	2.38	47.	0.00	27.4	144.4	400	6.59	34.193	1.05	26.861	119.9	0.676	
269	7.50	34.121	1.65	2.53	52.	0.01	24.1U	137.2	500	5.87	34.238	0.54	26.989	107.8	0.796	
328	7.05	34.188	1.48	2.72	60.	0.00	33.4	126.2								
401	6.58	34.192	1.04	2.84	67.	0.01	31.8	119.9								
474	6.03	34.224	0.55	3.01	77.	0.01	38.6U	110.7								
555	5.57	34.266	0.51	3.09	85.	0.01	35.5	102.1								

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						73060
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
35 17.5N	121 57.5W	3/ 9/72			0059	GMT	2222M	150	10KT	2	140 2 3					
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	12.44	33.34							0	12.44	33.34		25.239	274.1	0.000	
10	12.40	33.34							10	12.40	33.34		25.247	273.3	0.027	
20	12.18	33.36							20	12.18	33.36		25.304	267.9	0.054	
30	11.95	33.37							30	11.95	33.37		25.359	262.6	0.081	
50	11.61	33.40							50	11.61	33.40		25.442	254.8	0.133	
75	10.72	33.55							75	10.72	33.55		25.718	228.4	0.194	
100	10.05	33.69							100	10.05	33.69		25.943	207.1	0.249	
125	9.44	33.84							125	9.44	33.84		26.161	186.4	0.298	
150	9.15	33.94							150	9.15	33.94		26.286	174.5	0.344	
200	8.65	34.02							200	8.65	34.02		26.427	161.1	0.430	
250	7.89	34.11							250	7.89	34.11		26.613	143.4	0.508	
300	7.41	34.15							300	7.41	34.15		26.714	133.9	0.579	
400	6.56	34.20							400	6.56	34.20		26.870	119.0	0.711	
500	5.80	34.25							500	5.80	34.25		27.008	106.0	0.830	
600	5.42	34.31							600	5.42	34.31		27.101	97.1	0.938	
700	5.01	34.36							700	5.01	34.36		27.189	88.8	1.039	
800	4.67	34.38							800	4.67	34.38		27.244	83.6	1.133	
1000	4.14	34.45							1000	4.14	34.45		27.358	72.8	1.307	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						73060
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
35 17.5N	121 57.5W	3/ 9/72			0230	GMT	2222M	150	10KT	2	140 2 3					
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
2	12.42	33.365	6.22	0.47	6.	0.14	3.2	271.8	0	12.42	33.365	6.22	25.262	271.8	0.000	
12	12.39	33.366	6.29	0.45	6.	0.17	2.4	271.2	10	12.40	33.368	6.28	25.267	271.3	0.027	
31	11.96	33.387	6.18	0.51	7.	0.17	4.8	261.9	20	12.23	33.374	6.26	25.303	267.9	0.054	
61	11.47	33.452	6.11	0.69	8.	0.41	5.9	248.5	30	11.99	33.387	6.19	25.360	262.5	0.081	
81	10.97	33.553	5.25	0.99	12.	0.10	11.8	232.4	50	11.65	33.422	6.14	25.449	254.0	0.133	
110	10.29	33.692	4.12	1.39	19.	0.08	15.6	210.8	75	11.13	33.522	5.54	25.623	237.5	0.194	
140	9.39	33.858	3.34	1.78	26.	0.06	20.8	184.2	100	10.53	33.645	4.48	25.824	218.4	0.252	
164	9.06	34.131 U	2.96	1.94	30.	0.00	18.5		125	9.82	33.777	3.68	26.048	197.1	0.304	
194	8.83	34.001	2.79	2.01	33.	0.00	24.7	165.1	150	9.22	33.892	3.16	26.236	179.2	0.352	
228	8.38	34.060	2.18	2.25	40.	0.03	25.0	154.1	200	8.76	34.015	2.69	26.406	163.1	0.439	
297	7.59	34.123	1.71	2.53	50.	0.00	31.3	138.3	250	8.11	34.086	1.97	26.561	148.4	0.519	
404	6.65	34.189	1.10	2.86	67.	0.00	32.7	121.0	300	7.56	34.126	1.69	26.673	137.7	0.593	
512	5.92	34.244	0.47	3.09	81.	0.00	36.2	107.9	400	6.68	34.188	1.12	26.844	121.5	0.728	
648	5.30	34.329	0.52	3.20	93.	0.01	32.1U	94.5	500	5.99	34.239	0.53	26.974	109.2	0.850	
804	4.60	34.398	0.40	3.28	109.	0.05	41.4	81.5	600	5.50	34.300	0.50	27.084	98.6	0.961	
969	4.12	34.453	0.49	3.29	121.	0.02	38.2U	72.5	700	5.05	34.355	0.48	27.180	89.7	1.063	
1173	3.50	34.509	0.59	3.24	131.	0.00	43.1	62.3	800	4.62	34.397	0.40	27.263	81.8	1.156	
									1000	4.03	34.463	0.51	27.378	70.9	1.326	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						73070
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
34 58.0N	122 40.0W	3/ 9/72			0811	GMT	4111M	150	5KT							
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	12.80	33.30							0	12.80	33.30		25.138	283.6	0.000	
10	12.80	33.30							10	12.80	33.30		25.138	283.6	0.028	
20	12.74	33.32							20	12.74	33.32		25.165	281.1	0.057	
30	12.62	33.33							30	12.62	33.33		25.196	278.1	0.085	
50	12.28	33.42							50	12.28	33.42		25.331	265.2	0.139	
75	11.59	33.50							75	11.59	33.50		25.523	247.0	0.204	
100	10.55	33.65							100	10.55	33.65		25.826	218.2	0.262	
125	9.56	33.85							125	9.56	33.85		26.149	187.5	0.314	
150	8.81	33.92							150	8.81	33.92		26.324	170.8	0.359	
200	8.23	34.06							200	8.23	34.06		26.523	152.0	0.441	
250	7.31	34.01							250	7.31	34.01		26.618	142.9	0.517	
300	6.76	34.04							300	6.76	34.04		26.718	133.5	0.588	
400	6.38	34.20							400	6.38	34.20		26.894	116.8	0.718	
500	5.69	34.26							500	5.69	34.26		27.029	104.0	0.835	
600	4.97	34.30							600	4.97	34.30		27.146	92.9	0.939	
700	4.65	34.36							700	4.65	34.36		27.230	84.9	1.035	
800	4.33	34.39							800	4.33	34.39		27.289	79.3	1.125	
1000	3.81	34.47							1000	3.81	34.47		27.407	68.2	1.289	

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						77055			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 54.5N	121 13.0W	3/10/72	1735	GMT	1064M	300	2KT	1	290 8 10						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	S16T	DT	DD
									0	12.75	33.31		25.156	282.0	0.000
									10	12.59	33.31		25.187	279.0	0.028
									20	12.32	33.32		25.246	273.3	0.056
									30	12.11	33.35		25.310	267.3	0.083
									50	11.70	33.42		25.441	254.9	0.135
									75	10.50	33.59		25.788	221.8	0.195
									100	9.82	33.68		25.974	204.2	0.249
									125	9.55	33.87		26.170	185.5	0.298
									150	8.92	33.94		26.323	171.0	0.343
									200	8.27	34.01		26.478	156.3	0.427
									250	7.41	34.02		26.612	143.5	0.504
									300	6.95	34.08		26.723	133.0	0.575
									400	6.42	34.20		26.889	117.3	0.705
									500	5.87	34.26		27.007	106.1	0.823

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						77060			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 43.5N	121 34.5W	3/10/72	1403	GMT	870M	130	1KT	2	130 1 7						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	S16T	DT	DD
									0	12.92	33.30		25.114	285.9	0.000
									10	12.80	33.32		25.153	282.2	0.028
									20	12.08	33.35		25.315	266.8	0.056
									30	11.77	33.43		25.435	255.4	0.082
									50	11.48	33.48		25.528	246.6	0.132
									75	10.79	33.54		25.698	230.3	0.192
									100	9.90	33.65		25.937	207.7	0.248
									125	9.19	33.81		26.178	184.7	0.297
									150	9.10	33.98		26.325	170.8	0.342
									200	8.84	34.09		26.452	158.7	0.426
									250	8.52	34.13		26.554	151.0	0.506
									300	7.55	34.05		26.616	143.2	0.582
									400	6.03	34.01		26.789	126.7	0.722
									500	6.25	34.29		26.982	108.4	0.845
									600	5.52	34.22		27.042	102.7	0.958
									700	4.86	34.32		27.175	90.2	1.062

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						77060			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 43.5N	121 34.5W	3/10/72	1507	GMT	870M	130	1KT	2	130 1 7						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	S16T	DT	DD
									0	13.06	33.321	4.64	25.103	287.0	0.000
11	12.93	33.321	4.78	0.38	3.	0.04	0.4	284.5	10	12.95	33.326	4.77	25.126	284.8	0.029
31	11.97	33.400	5.10	0.61	6.	0.15	4.4	258.9	20	12.53	33.364	4.97	25.237	274.2	0.057
41	11.62	33.476	4.96	0.71	8.	0.23	5.5	249.3	30	12.02	33.425	5.09	25.382	260.4	0.083
50	11.45	33.489	4.92	0.81	9.	0.26	7.5	245.4	50	11.45	33.489	4.92	25.540	245.4	0.134
65	11.06	33.445 U	4.67	0.92	10.	0.17	8.5		75	10.83	33.539	4.05	25.689	231.3	0.194
80	10.72	33.557	3.74	1.13	13.	0.21	12.6	227.9	100	10.21	33.646	3.48	25.879	213.1	0.250
99	10.26	33.640	3.49	1.37	17.	0.10	15.8	214.2	125	9.22	33.793	3.19	26.158	186.6	0.301
124	9.23	33.781	3.22	1.65	23.	0.02	22.0	187.5	150	9.07	33.971	2.58	26.323	171.0	0.346
143	9.10	33.957	2.72	1.86	28.	0.02	21.6	174.0	200	8.87	34.070	2.04	26.432	160.6	0.431
172	8.98	34.090	2.27	2.10	33.	0.22	26.7	165.2	250	8.35	34.140	1.65	26.567	147.8	0.510
201	8.86	34.070	2.03	2.20	36.	0.00	25.6	160.5	300	7.23	34.070	1.78	26.676	137.4	0.583
229	8.57	34.117	1.90	2.36	40.	0.00	29.3	152.7	400	6.17	34.058	1.37	26.809	124.9	0.719
267	8.11	34.142	1.48	2.47	46.	0.00	30.4	144.2	500	6.05	34.231	0.70	26.961	110.5	0.843
324	6.59	34.015	2.04	2.44	55.	0.00	34.0	135.2							
393	6.17	34.044	1.43	2.67	62.	0.01	33.0	125.9							
465	6.14	34.179	0.90	2.96	71.	0.00	39.2U	115.4							
542	5.87	34.278	0.50	3.14	81.	0.01	37.8	104.7							

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						77070			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 24.0N	122 15.0W	3/10/72	0841	GMT	4111M	170	4KT								
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	S16T	DT	DD
									0	12.88	33.46		25.246	273.4	0.000
									10	12.87	33.46		25.248	273.2	0.027
									20	12.64	33.46		25.293	268.9	0.054
									30	12.46	33.46		25.328	265.6	0.081
									50	11.51	33.51		25.545	244.9	0.133
									75	10.26	33.60		25.837	217.2	0.191
									100	9.72	33.75		26.045	197.4	0.243
									125	9.14	33.77		26.155	186.9	0.291
									150	8.96	33.94		26.316	171.6	0.337
									200	7.92	33.99		26.515	152.8	0.420
									250	7.26	34.02		26.633	141.5	0.495
									300	6.72	34.05		26.731	132.3	0.565
									400	5.65	34.07		26.884	117.7	0.695
									500	5.53	34.22		27.017	105.1	0.812
									600	5.07	34.27		27.111	96.2	0.919
									700	4.67	34.34		27.212	86.6	1.018
									800	4.43	34.39		27.278	80.4	1.109
									1000	3.89	34.47		27.398	69.0	1.275

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						77080
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 04.0N	122 57.0W	3/10/72	0341	6MT		4309M	170	8KT		O2	SIGT	DT	DD			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.52	32.72		24.744	321.1	0.000	
									10	12.36	32.86		24.883	307.9	0.031	
									20	12.18	33.04		25.057	291.4	0.061	
									30	12.23	33.11		25.101	287.2	0.090	
									50	12.55	33.24		25.179	279.8	0.147	
									75	11.46	33.15		25.275	270.6	0.216	
									100	9.75	33.11		25.341	245.3	0.281	
									125	9.65	33.52		25.877	213.3	0.339	
									150	9.00	33.75		26.162	186.3	0.390	
									200	8.17	33.91		26.415	162.3	0.479	
									250	7.55	34.01		26.584	146.2	0.558	
									300	6.91	34.04		26.697	135.4	0.630	
									400	6.35	34.15		26.859	120.1	0.763	
									500	5.74	34.19		26.968	109.8	0.884	
									600	5.17	34.27		27.099	97.3	0.994	
									700	4.69	34.33		27.202	87.6	1.094	
									800	4.42	34.39		27.279	80.3	1.185	
									1000	3.88	34.47		27.399	68.9	1.351	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						77090
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
33 43.0N	123 39.0W	3/ 9/72	2246	6MT		4309M	150	12KT	2	O2	SIGT	DT	DD			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.78	32.84		24.787	317.1	0.000	
									10	12.76	32.84		24.791	316.7	0.032	
									20	12.66	32.82		24.795	316.4	0.063	
									30	12.35	32.79		24.831	312.9	0.095	
									50	12.23	32.91		24.947	301.9	0.157	
									75	11.61	32.93		25.078	289.4	0.231	
									100	10.56	33.04		25.350	263.5	0.300	
									125	10.23	33.31		25.617	238.1	0.364	
									150	9.61	33.63		25.970	204.6	0.420	
									200	8.52	33.90		26.354	168.0	0.515	
									250	7.61	33.96		26.536	150.7	0.596	
									300	7.11	34.00		26.638	141.0	0.671	
									400	6.08	34.08		26.838	122.1	0.808	
									500	5.78	34.21		26.979	108.8	0.929	
									600	4.99	34.25		27.105	96.8	1.038	
									700	4.69	34.32		27.194	88.3	1.138	
									800	4.52	34.41		27.264	79.8	1.230	
									1000	3.80	34.47		27.408	68.1	1.394	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						80052
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 24.5N	120 36.5W	3/15/72	1530	6MT		300M	150	2KT	2	O2	SIGT	DT	DD			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.38	33.61		25.459	253.1	0.000	
									10	12.28	33.59		25.463	252.7	0.025	
									20	11.93	33.61		25.545	245.0	0.050	
									30	11.04	33.65		25.739	226.5	0.074	
									50	10.87	33.64		25.762	224.3	0.119	
									75	10.40	33.73		25.914	209.8	0.174	
									100	9.76	33.81		26.085	193.6	0.225	
									125	9.58	33.94		26.216	181.1	0.272	
									150	9.30	34.05		26.348	168.6	0.316	
									200	8.86	34.13		26.481	156.0	0.399	
									250	8.41	34.15		26.566	147.9	0.477	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						80052
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 24.5N	120 36.5W	3/15/72	1607	6MT		300M	150	2KT	2	O2	SIGT	DT	DD			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	12.42	33.591	6.26	25.437	255.2	0.000	
									10	12.28	33.601	6.19	25.471	251.9	0.025	
									20	12.07	33.606	6.12	25.515	247.8	0.050	
									30	11.16	33.649	5.05	25.715	228.7	0.074	
									50	10.93	33.659	4.81	25.764	224.1	0.120	
									75	10.21	33.754	3.81	25.965	205.0	0.174	
									100	9.81	33.798	3.69	26.066	195.4	0.224	
									125	9.51	33.906	2.95	26.200	182.7	0.272	
									150	9.13	34.027	2.61	26.356	167.9	0.317	
									200	8.88	34.123	2.04	26.472	156.9	0.399	
									250	8.52	34.128	1.83	26.532	151.1	0.478	

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						80055			
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
34 19.0N	120 48.0W	3/15/72		1325 GMT			778M	150	2KT						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.12	33.58		25.486	250.6	0.000
									10	11.97	33.59		25.522	247.1	0.025
									20	11.97	33.59		25.522	247.1	0.050
									30	11.96	33.59		25.524	247.0	0.074
									50	11.83	33.62		25.571	242.4	0.124
									75	10.88	33.67		25.783	222.3	0.182
									100	10.49	33.74		25.906	210.6	0.237
									125	9.68	33.90		26.168	185.7	0.287
									150	9.06	34.06		26.394	164.2	0.331
									200	8.78	34.12		26.485	155.6	0.413
									250	7.87	34.13		26.632	141.7	0.489
									300	7.46	34.20		26.746	130.8	0.559
									400	7.07	34.25		26.840	121.9	0.691
									500	5.94	34.25		26.990	107.7	0.812
									600	5.50	34.34		27.115	95.8	0.921
									700	5.10	34.39		27.202	87.5	1.021

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						80060			
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
34 09.0N	121 09.0W	3/15/72		0933 GMT			2222M	050	6KT						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.29	33.46		25.360	262.5	0.000
									10	12.29	33.46		25.360	262.5	0.026
									20	12.25	33.43		25.360	262.5	0.053
									30	12.07	33.56		25.480	251.1	0.078
									50	10.99	33.62		25.725	227.8	0.126
									75	10.16	33.78		25.994	202.2	0.180
									100	9.77	33.92		26.169	185.6	0.229
									125	9.51	33.98		26.259	177.1	0.275
									150	9.03	34.00		26.352	168.2	0.319
									200	8.63	34.13		26.517	152.6	0.401
									250	8.06	34.15		26.619	142.9	0.477
									300	6.89	34.07		26.724	133.0	0.548
									400	5.70	34.12		26.917	114.6	0.676
									500	5.38	34.26		27.067	100.4	0.769
									600	5.22	34.36		27.165	91.1	0.892
									700	4.92	34.41		27.239	84.1	0.987
									800	4.67	34.42		27.275	80.6	1.077
									1000	4.11	34.47		27.376	71.1	1.247

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						80060			
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
34 09.0N	121 09.0W	3/15/72		1035 GMT			2222M	050	6KT						
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.30	33.440	6.21	25.343	264.1	0.000
									10	12.31	33.437	6.19	25.339	264.5	0.026
									20	12.23	33.450	6.21	25.364	262.1	0.053
									30	12.04	33.581	6.22	25.501	249.1	0.078
									50	11.25	33.609	5.24	25.669	233.1	0.127
									75	10.27	33.717	3.87	25.924	208.9	0.182
									100	9.83	33.882	3.06	26.128	189.5	0.233
									125	9.60	33.939	2.80	26.212	181.5	0.280
									150	9.17	33.979	2.75	26.312	172.0	0.324
									200	8.63	34.082	2.24	26.478	156.3	0.408
									250	8.03	34.140	2.17	26.616	143.2	0.485
									300	6.96	34.051	2.24	26.698	135.4	0.557
									400	5.64	34.079	1.32	26.891	117.0	0.688
									500	5.41	34.234	0.60	27.041	102.8	0.803
									600	5.19	34.340	0.45	27.152	92.3	0.907
									700	4.90	34.398	0.41	27.231	84.8	1.003
									800	4.58	34.426	0.47	27.289	79.3	1.093
									1000	4.03	34.460	0.61	27.376	71.1	1.261

A) THE SALINITY BOTTLE NUMBERS FROM 407 TO 804 METERS WERE LISTED OUT OF ORDER ON THE ORIGINAL DATA SHEET. THE VALUES ARE ASSUMED TO NOW BE IN THE CORRECT ORDER, BUT MUST BE CONSIDERED DOUBTFUL.

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							80070	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
33 49.0N		121 53.0W		3/13/72		0419 GMT		3926M		330		16KT						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
									0	12.67	33.30		25.163	281.2	0.000			
									10	12.60	33.32		25.192	278.5	0.028			
									20	11.85	33.26		25.289	269.3	0.055			
									30	11.42	33.30		25.399	258.8	0.082			
									50	11.59	33.54		25.554	244.1	0.132			
									75	10.17	33.66		25.899	211.3	0.190			
									100	9.29	33.80		26.154	187.0	0.240			
									125	9.09	33.95		26.303	172.8	0.285			
									150	9.01	34.05		26.394	164.2	0.328			
									200	8.14	34.04		26.521	152.2	0.409			
									250	7.75	34.14		26.657	139.3	0.484			
									300	7.16	34.15		26.749	130.5	0.553			
									400	6.25	34.22		26.927	113.7	0.680			
									500	5.87	34.28		27.022	104.6	0.796			
									600	5.15	34.31		27.133	94.1	0.902			
									700	4.82	34.39		27.235	84.5	0.998			
									800	4.58	34.42		27.285	79.7	1.088			
									1000	3.96	34.48		27.399	68.9	1.254			
									1200	3.49	34.52		27.478	61.4	1.403			
									1500	2.89	34.56		27.566	53.0	1.603			

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							80070	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
33 49.0N		121 53.0W		3/13/72		0624 GMT		3926M		330		16KT						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
552	5.35	34.268						99.5	600	5.16	34.306		27.129	94.5	0.000			
736	4.67	34.391						82.8	700	4.79	34.372		27.223	85.6	0.097			
922	4.14	34.455						72.6	800	4.48	34.418		27.294	78.8	0.187			
1106	3.60	34.502						63.8	1000	3.91	34.477		27.402	68.6	0.352			
1290	3.17	34.535						57.4	1200	3.37	34.521		27.490	60.3	0.498			
1475	2.82	34.562						52.3	1500	2.78	34.567		27.581	51.7	0.694			
1661	2.52	34.586						48.0	1750	2.38	34.595		27.637	46.2	0.840			
1846	2.25	34.604						44.5	2000	2.09	34.622		27.683	41.9	0.973			
2033	2.06	34.625						41.5	2250	1.89	34.641		27.714	39.1	1.098			
2172	1.94	34.634						39.9	2500	1.76	34.652		27.733	37.3	1.217			
2312	1.86	34.644						38.5	2750	1.67	34.663		27.749	35.8	1.333			
2452	1.79	34.648						37.7	3000	1.59	34.669		27.759	34.8	1.446			
2592	1.72	34.658						36.5										
2734	1.67	34.662						35.8										
2875	1.65	34.667						35.3										
3017	1.58	34.668						34.7										
3160	1.58	34.670						34.6										

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							80080	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
33 28.5N		122 32.0W		3/13/72		1248 GMT		4213M		330		18KT						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD			
									0	12.94	33.19		25.026	294.4	0.000			
									10	12.94	33.19		25.026	294.4	0.029			
									20	12.94	33.20		25.033	293.6	0.059			
									30	12.89	33.21		25.051	291.9	0.088			
									50	11.26	33.32		25.444	254.6	0.143			
									75	10.42	33.57		25.786	222.0	0.203			
									100	9.62	33.75		26.061	195.8	0.256			
									125	8.91	33.92		26.309	172.3	0.302			
									150	8.62	33.98		26.401	163.6	0.345			
									200	8.04	34.02		26.520	152.2	0.425			
									250	7.41	34.08		26.659	139.1	0.500			
									300	7.12	34.15		26.755	130.0	0.569			
									400	6.21	34.21		26.924	113.9	0.696			
									500	5.48	34.27		27.063	100.8	0.810			
									600	5.12	34.34		27.161	91.5	0.912			
									700	4.70	34.39		27.248	83.2	1.007			
									800	4.38	34.44		27.323	76.1	1.094			
									1000	3.79	34.48		27.416	67.2	1.254			
									1200	3.36	34.53		27.499	59.5	1.398			
									1500	2.82	34.56		27.573	52.5	1.594			

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							82047
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
34 17.0N	119 59.0W	3/16/72			0510	GMT		556M	280	3KT	4	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
0	14.08	33.478	4.88	0.25	1.	0.00	0.0	295.2	0	14.08	33.478	4.88	25.016	295.2	0.000		
10	13.95	33.472	4.86	0.24	1.	0.00	0.0	293.1	10	13.95	33.472	4.86	25.039	293.1	0.029		
31	11.17	33.510	5.09	0.89	10.	0.18	8.4	239.0	20	12.70	33.470	4.99	25.287	269.5	0.058		
51	10.53	33.649	4.61	1.30	17.	0.03	15.4	218.0	30	11.32	33.506	5.08	25.576	242.0	0.083		
81	10.16	33.773	3.05	1.51	21.	0.21	17.2	202.7	50	10.54	33.644	4.65	25.822	218.6	0.129		
111	9.54	33.940	2.29	1.90	27.	0.02	22.4	180.5	75	10.22	33.752	3.37	25.962	205.3	0.183		
155	9.10	34.032	2.04	2.10	33.	0.00	25.7	166.9	100	9.77	33.882	2.49	26.139	188.5	0.232		
204	8.88	34.140	1.53	2.32	38.	0.00	24.5	155.6	125	9.36	33.980	2.17	26.283	174.8	0.278		
252	8.39	34.173	1.17	2.54	46.	0.00	30.8	145.9	150	9.13	34.027	2.05	26.356	167.8	0.322		
305	7.78	34.173	1.02	2.66	53.	0.00	30.5	137.2	200	8.90	34.134	1.57	26.477	156.4	0.405		
403	6.76	34.215	0.81	2.99	71.	0.00	33.8	120.4	250	8.41	34.174	1.18	26.583	146.2	0.482		
509	6.39	34.249	0.29	3.44	97.	0.00	27.5	113.2	300	7.84	34.175	1.03	26.671	138.0	0.556		
									400	6.79	34.214	0.82	26.851	120.9	0.691		
									500	6.42	34.253	0.35	26.929	113.4	0.814		

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							83051
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 52.0N	120 08.5W	3/16/72			1328	GMT		136M		0KT	4	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	13.52	33.49		25.141	283.4	0.000		
									10	13.44	33.48		25.149	282.5	0.028		
									20	12.06	33.56		25.481	251.0	0.055		
									30	10.98	33.59		25.703	229.9	0.079		
									50	9.75	33.88		26.141	188.3	0.121		
									75	9.37	34.00		26.297	173.4	0.167		
									100	9.23	34.06		26.367	166.8	0.210		

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							83055
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 44.0N	120 24.5W	3/16/72			1530	GMT		962M	330	2KT	4	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	12.37	33.44		25.330	265.4	0.000		
									10	12.08	33.41		25.362	262.4	0.026		
									20	12.11	33.49		25.418	257.0	0.052		
									30	12.07	33.52		25.449	254.1	0.078		
									50	11.66	33.49		25.502	249.0	0.129		
									75	10.82	33.56		25.708	229.4	0.189		
									100	9.65	33.77		26.075	194.5	0.242		
									125	9.11	33.85		26.222	180.6	0.290		
									150	8.72	33.92		26.338	169.5	0.334		
									200	8.77	34.10		26.471	156.9	0.417		
									250	7.97	34.14		26.625	142.3	0.494		
									300	7.36	34.13		26.705	134.7	0.565		
									400	6.59	34.23		26.890	117.2	0.697		
									500	6.19	34.32		27.013	108.5	0.814		
									600	5.60	34.36		27.119	95.4	0.922		
									700	5.27	34.38		27.175	90.2	1.023		
									800	4.74	34.42		27.267	81.4	1.117		

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203							83060
LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 34.0N	120 45.0W	3/16/72			1837	GMT		1479M	240	2KT	4	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	13.36	33.13		24.896	306.7	0.000		
									10	13.36	33.14		24.903	306.0	0.031		
									20	13.26	33.12		24.908	305.5	0.061		
									30	13.44	33.19		24.926	305.8	0.092		
									50	12.92	33.22		25.053	291.8	0.152		
									75	11.11	33.34		25.486	250.5	0.220		
									100	10.12	33.53		25.806	220.1	0.279		
									125	9.34	33.74		26.099	192.2	0.331		
									150	8.92	33.92		26.307	172.5	0.377		
									200	8.08	33.99		26.491	155.0	0.461		
									250	7.42	34.02		26.611	143.7	0.537		
									300	6.76	34.02		26.702	135.0	0.609		
									400	5.94	34.09		26.864	119.7	0.741		
									500	5.49	34.20		27.006	106.2	0.860		
									600	5.01	34.29		27.134	94.0	0.966		
									700	4.61	34.36		27.234	84.5	1.062		
									800	4.32	34.42		27.314	77.0	1.151		
									1000	3.91	34.49		27.412	67.7	1.312		

RV DAVID STARR JORDAN								CALCOFI CRUISE 7203								83060
LATITUDE	LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
33 34.0N	120 45.0W		3/16/72		1943 GMT			1479M	240	2KT	4	260	2	9		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S16T	DT	DD	
1	13.37	33.143	6.19	0.33	2.	0.00	0.0	309.8	0	13.37	33.143	6.19	24.863	309.8	0.000	
11	13.35	33.147	6.22	0.30	2.	0.00	0.0	305.3	10	13.36	33.148	6.22	24.907	305.6	0.031	
31	13.43	33.203	6.20	0.29	2.	0.00	0.0	302.7	20	13.39	33.174	6.21	24.923	304.1	0.061	
56	11.41	33.245	5.98	0.60	5.	0.05	4.3	262.7	30	13.43	33.202	6.20	24.937	302.8	0.092	
71	11.14	33.331	0.81	7.	0.02	6.2	251.7	50	11.91	33.228	6.05	25.251	272.9	0.149		
86	10.86	33.374	5.47	0.88	8.	0.01	8.4	243.8	75	11.07	33.346	5.69	25.496	249.6	0.215	
101	10.44	33.441	5.08	1.02	10.	0.01	10.0	231.9	100	10.47	33.438	5.11	25.673	232.8	0.276	
131	9.36	33.725	3.96	1.55	20.	0.01	16.6	193.6	125	9.57	33.664	4.16	26.002	201.5	0.331	
156	8.86	33.909	3.81	1.67	24.	0.00	21.5	172.4	150	8.95	33.874	3.82	26.265	176.5	0.379	
181	8.56	33.975	3.53	1.75	28.	0.00	21.8	163.1	200	8.27	33.985	3.42	26.458	158.2	0.464	
216	8.01	33.981	3.34	1.88	32.	0.00	24.0	154.7	250	7.52	33.994	3.04	26.575	147.1	0.542	
280	7.13	34.007	2.71	2.26	43.	0.00	30.1	140.8	300	6.88	34.017	2.45	26.683	136.8	0.615	
377	6.10	34.060	1.53	2.67	58.	0.00	31.0	123.8	400	5.96	34.078	1.36	26.850	121.0	0.749	
476	5.63	34.139	0.94	2.99	69.	0.00	39.6	112.3	500	5.51	34.166	0.81	26.976	109.0	0.870	
606	5.01	34.279	0.41	3.22	84.	0.00	40.6	94.9	600	5.04	34.273	0.43	27.117	95.7	0.978	
756	4.44	34.387	0.40	3.30	98.	0.00	41.7	80.7	700	4.63	34.353	0.40	27.226	85.3	1.076	
901	4.19	34.456	0.47	3.29	103.	0.00	42.7	73.0	800	4.55	34.413	0.42	27.304	77.9	1.165	
1107	3.65		0.64	3.26	114.	0.00	37.5		1000	3.96	34.475	0.71	27.395	69.3	1.329	

RV DAVID STARR JORDAN								CALCOFI CRUISE 7203								83070
LATITUDE	LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
33 14.5N	121 26.0W		3/14/72		1115 GMT			3926M	330	28KT						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S16T	DT	DD	
0	13.45	33.27							0	13.45	33.27		24.986	298.2	0.000	
10	13.44	33.28							10	13.44	33.28		24.995	297.2	0.030	
20	13.44	33.28							20	13.44	33.28		24.995	297.2	0.060	
30	13.44	33.28							30	13.44	33.28		24.995	297.2	0.089	
50	11.67	33.36							50	11.67	33.36		25.400	258.8	0.145	
75	10.49	33.50							75	10.49	33.50		25.720	228.3	0.206	
100	9.80	33.65							100	9.80	33.65		25.954	206.1	0.261	
125	9.36	33.78							125	9.36	33.78		26.127	189.6	0.311	
150	8.94	33.85							150	8.94	33.85		26.249	178.0	0.358	
200	8.20	33.96							200	8.20	33.96		26.449	159.0	0.444	
250	7.37	34.03							250	7.37	34.03		26.625	142.3	0.521	
300	7.19	34.15							300	7.19	34.15		26.745	130.9	0.591	
400	6.32	34.21							400	6.32	34.21		26.910	115.3	0.719	
500	5.64	34.25							500	5.64	34.25		27.027	104.1	0.835	
600	5.15	34.30							600	5.15	34.30		27.126	94.8	0.941	
700	4.78	34.38							700	4.78	34.38		27.231	84.8	1.038	
800	4.47	34.42							800	4.47	34.42		27.297	78.5	1.128	
1000	3.85	34.48							1000	3.85	34.48		27.410	67.6	1.291	

RV DAVID STARR JORDAN								CALCOFI CRUISE 7203								83080
LATITUDE	LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
32 54.0N	122 08.0W		3/14/72		0608 GMT			4117M	330	18KT						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S16T	DT	DD	
0	12.82	33.14							0	12.82	33.14		25.011	295.8	0.000	
10	12.82	33.15							10	12.82	33.15		25.018	295.0	0.030	
20	12.81	33.16							20	12.81	33.16		25.028	294.1	0.059	
30	12.67	33.20							30	12.67	33.20		25.086	288.6	0.088	
50	12.39	33.26							50	12.39	33.26		25.187	279.0	0.145	
75	11.34	33.32							75	11.34	33.32		25.431	255.8	0.212	
100	10.58	33.43							100	10.58	33.43		25.650	235.0	0.274	
125	9.70	33.70							125	9.70	33.70		26.009	200.8	0.329	
150	9.36	33.82							150	9.36	33.82		26.159	186.6	0.378	
200	8.56	34.00							200	8.56	34.00		26.457	158.3	0.466	
250	7.63	34.04							250	7.63	34.04		26.596	145.0	0.544	
300	7.16	34.10							300	7.16	34.10		26.710	134.2	0.616	
400	6.30	34.17							400	6.30	34.17		26.881	118.0	0.747	
500	5.79	34.26							500	5.79	34.26		27.017	105.1	0.865	
600	5.22	34.33							600	5.22	34.33		27.141	93.4	0.971	
700	4.70	34.39							700	4.70	34.39		27.248	83.2	1.066	
800	4.36	34.43							800	4.36	34.43		27.317	76.7	1.154	
1000	3.80	34.49							1000	3.80	34.49		27.423	66.6	1.314	

RV DAVID STARR JORDAN								CALCOFI CRUISE 7203								83090
LATITUDE	LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
32 34.5N	122 50.0W		3/14/72		0053 GMT			4213M	340	20KT	2	350	7	4		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S16T	DT	DD	
0	12.85	32.99							0	12.85	32.99		24.889	307.4	0.000	
10	12.85	33.00							10	12.85	33.00		24.897	306.6	0.031	
20	12.86	33.11							20	12.86	33.11		24.980	298.7	0.061	
30	12.85	33.24							30	12.85	33.24		25.086	288.6	0.090	
50	11.68	33.30							50	11.68	33.30		25.351	263.4	0.146	
75	11.32	33.39							75	11.32	33.39		25.487	250.4	0.210	
100	11.15	33.43							100	11.15	33.43		25.549	244.6	0.273	
125	10.02	33.63							125	10.02	33.63		25.901	211.1	0.330	
150	9.36	33.84							150	9.36	33.84		26.174	185.1	0.381	
200	8.39	33.98							200	8.39	33.98		26.436	160.2	0.468	
250	7.62	34.04							250	7.62	34.04		26.598	144.9	0.547	
300	7.21	34.10							300	7.21	34.10		26.703	134.9	0.619	
400	6.34	34.17							400	6.34	34.17		26.876	118.5	0.751	
500	5.80	34.27							500	5.80	34.27		27.023	104.5	0.868	
600	5.10	34.32							600	5.10	34.32		27.147	92.8	0.974	
700	4.61	34.37							700	4.61	34.37		27.242	83.7	1.069	
800	4.31	34.42							800	4.31	34.42		27.315	76.9	1.157	
1000	3.83	34.49							1000	3.83	34.49		27.420	66.9	1.317	

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						87035			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 49.5N	118 37.5W	3/18/72	1133	GMT		648M	130	4KT		O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.48	33.48		24.934	303.1	0.000
									10	14.48	33.48		24.934	303.1	0.030
									20	13.55	33.45		25.104	286.9	0.060
									30	12.90	33.46		25.242	273.8	0.088
									50	11.40	33.47		25.534	245.9	0.140
									75	10.24	33.67		25.895	211.7	0.198
									100	9.98	33.77		26.017	200.1	0.250
									125	9.74	33.89		26.151	187.3	0.299
									150	9.35	34.01		26.308	172.4	0.344
									200	8.80	34.14		26.498	154.4	0.428
									250	8.30	34.20		26.622	142.6	0.504
									300	7.97	34.22		26.687	136.4	0.576
									400	7.01	34.26		26.856	120.3	0.710
									500	6.56	34.30		26.949	111.6	0.833
									600	5.91	34.36		27.080	99.1	0.946

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						87040			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 39.5N	118 59.0W	3/18/72	0830	GMT		815M	260	5KT		O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.76	33.49		24.882	308.0	0.000
									10	14.11	33.50		25.027	294.2	0.030
									20	13.13	33.48		25.212	276.6	0.059
									30	12.42	33.42		25.305	267.8	0.086
									50	11.16	33.53		25.624	237.4	0.137
									75	10.45	33.68		25.867	214.4	0.193
									100	10.14	33.86		26.060	196.0	0.245
									125	9.77	33.97		26.208	181.9	0.293
									150	9.41	34.06		26.338	169.6	0.338
									200	8.93	34.18		26.509	153.4	0.420
									250	8.32	34.22		26.635	141.4	0.496
									300	7.73	34.21		26.715	133.8	0.567
									400	6.98	34.26		26.861	119.9	0.699
									500	6.45	34.32		26.979	108.7	0.820
									600	5.86	34.36		27.087	98.5	0.932
									700	5.34	34.39		27.174	90.2	1.034

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						87045			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 30.0N	119 19.0W	3/18/72	0543	GMT		1692M	340	5KT		O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	13.18	33.53		25.240	273.9	0.000
									10	13.06	33.53		25.264	271.6	0.027
									20	12.43	33.52		25.380	260.6	0.054
									30	10.39	33.68		25.877	213.4	0.078
									50	9.63	33.85		26.138	188.6	0.118
									75	9.36	33.95		26.260	177.0	0.164
									100	9.13	34.04		26.367	166.8	0.207
									125	8.98	34.08		26.422	161.5	0.249
									150	8.73	34.10		26.478	156.3	0.289
									200	8.27	34.16		26.595	145.1	0.366
									250	7.93	34.20		26.678	137.3	0.439
									300	7.58	34.23		26.752	130.2	0.508
									400	7.00	34.28		26.874	118.7	0.638
									500	6.40	34.34		27.002	106.6	0.757
									600	5.87	34.36		27.086	98.6	0.868
									700	5.39	34.39		27.168	90.8	0.970
									800	4.98	34.42		27.240	84.0	1.066
									1000	4.35	34.47		27.350	73.5	1.243

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						87050			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
33 20.0N	119 39.5W	3/18/72	0318	GMT		75M	320	5KT		O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	12.51	33.44		25.303	268.0	0.000
									10	12.51	33.46		25.318	266.5	0.027
									20	12.48	33.47		25.352	265.2	0.053
									30	12.32	33.55		25.424	256.4	0.080
									50	10.47	33.62		25.816	219.1	0.127

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						87090			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
31 59.0N	122 24.0W	3/17/72	0735	GMT	4117M	360	7KT	4							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD
									0	14.51	33.37		24.843	311.7	0.000
									10	14.51	33.37		24.843	311.7	0.031
									20	14.50	33.37		24.845	311.5	0.062
									30	14.49	33.37		24.847	311.3	0.094
									50	14.42	33.36		24.854	310.6	0.156
									75	13.77	33.24		24.897	306.6	0.234
									100	11.85	33.16		25.211	276.7	0.307
									125	11.30	33.26		25.390	259.7	0.375
									150	10.28	33.44		25.709	229.3	0.437
									200	8.99	33.85		26.241	178.7	0.540
									250	8.04	33.98		26.489	155.2	0.626
									300	7.26	34.01		26.625	142.3	0.702
									400	5.90	34.07		26.853	120.7	0.839
									500	5.24	34.16		27.004	106.3	0.958
									600	4.76	34.23		27.115	95.8	1.065
									700	4.56	34.32		27.208	87.0	1.163
									800	4.09	34.39		27.314	76.9	1.252
									1000	3.76	34.49		27.427	66.2	1.411

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						90032			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
33 20.5N	118 03.0W	3/18/72	1957	GMT	796M	100	3KT	2							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD
									0	14.40	33.47		24.943	302.2	0.000
									10	14.39	33.48		24.953	301.3	0.030
									20	14.37	33.48		24.957	300.8	0.060
									30	13.15	33.44		25.177	279.9	0.089
									50	11.73	33.49		25.489	250.2	0.143
									75	10.42	33.70		25.887	212.4	0.201
									100	10.15	33.82		26.027	199.1	0.253
									125	9.52	33.89		26.187	183.9	0.301
									150	8.95	33.94		26.318	171.5	0.346
									200	9.05	34.12		26.443	159.6	0.431
									250	8.32	34.16		26.588	145.8	0.509
									300	7.54	34.23		26.758	129.7	0.580
									400	6.69	34.24		26.884	117.7	0.709
									500	6.31	34.32		26.998	106.9	0.828
									600	5.96	34.35		27.066	100.4	0.939
									700	5.40	34.40		27.175	90.1	1.043

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						90037			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
33 11.0N	118 22.5W	3/18/72	2318	GMT	1202M	280	7KT	2							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD
									0	14.76	33.47		24.866	309.5	0.000
									10	14.47	33.46		24.921	304.3	0.031
									20	13.65	33.47		25.099	287.3	0.060
									30	12.74	33.47		25.281	270.0	0.088
									50	11.60	33.54		25.552	244.3	0.140
									75	10.47	33.73		25.902	211.0	0.197
									100	10.09	33.95		26.138	188.5	0.248
									125	9.97	34.03		26.221	180.7	0.294
									150	9.66	34.12		26.343	169.1	0.339
									200	9.15	34.20		26.489	153.2	0.421
									250	8.61	34.23		26.598	144.9	0.499
									300	8.08	34.23		26.679	137.2	0.572
									400	7.07	34.26		26.848	121.1	0.707
									500	6.38	34.31		26.981	108.6	0.828
									600	5.86	34.36		27.087	98.5	0.939
									700	5.30	34.40		27.187	89.0	1.041
									800	4.79	34.42		27.262	81.9	1.135
									1000	4.25	34.48		27.369	71.8	1.307

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						90037			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
33 11.0N	118 22.5W	3/18/72	2348	GMT	1202M	280	7KT	2							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD
									0	14.39	33.463	6.16	24.940	302.5	0.000
									10	14.31	33.461	6.28	24.954	301.2	0.030
									20	12.54	33.453	6.18	25.107	286.6	0.060
									30	11.67	33.494	5.15	25.307	267.6	0.087
									50	10.67	33.658	4.00	25.460	253.0	0.140
									75	10.13	33.765	3.63	25.878	213.3	0.198
									100	10.07	33.894	3.02	26.098	192.3	0.249
									125	9.93	34.016	2.57	26.205	182.2	0.297
									150	9.66	34.094	2.25	26.306	172.6	0.342
									179	9.28	34.144	2.07	26.462	157.7	0.426
									214	9.09	34.176	1.89	26.567	147.8	0.505
									277	8.27	34.208	1.45	26.666	138.4	0.579
									375	7.54	34.232	1.07	26.806	125.1	0.716
									474	6.50	34.279	0.56	26.973	109.3	0.840
									605	5.82	34.345	0.39	27.076	99.5	0.952
									755	5.03	34.402	0.31	27.172	90.4	1.055
									900	4.43	34.451	0.40	27.258	82.3	1.150
									1007	4.21	34.467	0.49	27.361	72.5	1.323

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						90045
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 55.0N	118 50.0W	3/19/72	0835	6MT	1664M	180	7KT									
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
									0	13.73	33.45		25.067	290.4	0.000	
									10	13.72	33.45		25.069	290.2	0.029	
									20	13.71	33.45		25.071	290.0	0.058	
									30	13.57	33.43		25.085	288.7	0.087	
									50	11.13	33.45		25.568	242.8	0.140	
									75	10.34	33.56		25.808	219.9	0.199	
									100	9.78	33.80		26.074	194.6	0.251	
									125	9.33	33.93		26.249	178.0	0.298	
									150	9.01	33.98		26.340	169.4	0.342	
									200	8.58	34.12		26.517	152.6	0.424	
									250	8.06	34.17		26.635	141.4	0.500	
									300	7.67	34.22		26.732	132.2	0.570	
									400	7.00	34.27		26.866	119.5	0.702	
									500	6.40	34.30		26.970	109.6	0.823	
									600	5.85	34.36		27.088	98.4	0.934	
									700	5.42	34.39		27.165	91.1	1.037	
									800	4.86	34.43		27.262	81.9	1.133	
									1000	4.12	34.48		27.383	70.5	1.303	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						90053
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 40.0N	119 28.5W	3/19/72	1249	6MT	1332M	020	7KT									
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
									0	13.13	33.45		25.189	278.8	0.000	
									10	13.10	33.45		25.195	278.3	0.028	
									20	13.12	33.45		25.191	278.6	0.056	
									30	12.54	33.49		25.335	264.8	0.083	
									50	11.02	33.57		25.681	232.0	0.133	
									75	10.09	33.73		25.967	204.8	0.188	
									100	9.36	33.95		26.260	177.0	0.236	
									125	8.94	33.98		26.351	168.3	0.280	
									150	8.78	34.01		26.399	163.7	0.322	
									200	7.90	34.08		26.588	145.8	0.401	
									250	7.65	34.12		26.656	139.4	0.474	
									300	6.97	34.12		26.752	130.3	0.543	
									400	6.81	34.26		26.884	117.7	0.673	
									500	6.21	34.33		27.019	105.0	0.791	
									600	5.63	34.37		27.123	95.0	0.898	
									700	5.23	34.40		27.195	88.2	0.997	
									800	4.88	34.43		27.259	82.1	1.091	
									1000	4.19	34.48		27.375	71.2	1.263	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						90060
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 23.0N	119 58.0W	3/19/72	1635	6MT	1485M	340	20KT	1					340 18 11			
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
									0	13.76	33.20		24.868	309.3	0.000	
									10	13.75	33.20		24.871	309.1	0.031	
									20	13.69	33.19		24.875	308.7	0.062	
									30	13.58	33.18		24.890	307.3	0.093	
									50	12.75	33.11		25.005	296.3	0.153	
									75	11.37	33.22		25.346	263.8	0.224	
									100	10.50	33.43		25.664	233.7	0.286	
									125	9.66	33.68		26.000	201.6	0.341	
									150	9.23	33.80		26.164	186.1	0.390	
									200	8.36	33.99		26.449	159.0	0.478	
									250	8.10	34.08		26.558	148.6	0.557	
									300	7.75	34.18		26.688	136.3	0.631	
									400	6.97	34.26		26.862	119.8	0.764	
									500	6.08	34.32		27.027	104.1	0.883	
									600	5.57	34.35		27.115	95.8	0.990	
									700	5.14	34.39		27.198	88.0	1.090	
									800	4.74	34.44		27.283	79.9	1.182	
									1000	4.20	34.47		27.366	72.0	1.352	

RV DAVID STARR JORDAN										CALCOFI CRUISE 7203						90060
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 23.0N	119 58.0W	3/19/72	1755	6MT	1485M	340	20KT	1					340 18 11			
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
1	13.78	33.209	6.06	0.34	1.	0.00	0.1	309.0	0	13.78	33.209	6.06	24.871	309.0	0.000	
11	13.75	33.207	6.04	0.29	2.	0.01	0.0	308.6	10	13.75	33.209	6.04	24.876	308.6	0.031	
29	13.73		6.06	0.28	2.	0.01	0.0		20	13.74	33.210	6.05	24.878	308.4	0.062	
56	13.11	33.182	6.12	0.31	2.	0.03	0.0	298.1	30	13.70	33.200	6.06	24.881	308.1	0.093	
74	11.77	33.161	5.99	0.50	4.	0.10	2.6	275.2	50	13.50	33.179	6.11	24.944	302.1	0.154	
87	11.31	33.249	5.84	0.65	5.	0.03	4.6	260.7	75	11.73	33.168	5.99	25.238	274.2	0.226	
101	10.60	33.399	5.25	0.99	10.	0.02	10.1	237.6	100	10.65	33.389	5.30	25.604	239.3	0.291	
127	9.75	33.656	4.32	1.37	17.	0.00	17.0	204.8	125	9.80	33.641	4.38	25.945	206.9	0.347	
149	9.21	33.783	3.88	1.54	22.	0.01	20.0	187.0	150	9.19	33.789	3.87	26.160	186.5	0.397	
176	8.81	33.879	3.74	1.71	26.	0.01	20.9	173.9	200	8.40	33.956	3.24	26.415	162.2	0.486	
205	8.32	33.970	3.12	1.93	33.	0.00	24.9	160.0	250	7.90	34.103	2.11	26.605	144.2	0.564	
266	7.80	34.140	1.79	2.50	46.	0.01	30.4	140.0	300	7.55	34.180	1.43	26.717	133.6	0.636	
360	7.12	34.210	1.08	2.82	58.	0.00	34.8	125.5	400	6.81	34.244	0.85	26.871	119.0	0.768	
454	6.40	34.284	0.60	3.04	70.	0.00	39.4	110.8	500	6.11	34.308	0.47	27.014	105.4	0.886	
573	5.69	34.354	0.37	3.21	84.	0.00	40.0	98.4	600	5.53	34.343	0.37	27.114	95.9	0.994	
712	4.95	34.379	0.37	3.24	96.	0.00	40.8	86.7	700	5.01	34.376	0.37	27.202	87.6	1.093	
865	4.50	34.451	0.47	3.29	105.	0.01	41.6	76.5	800	4.67	34.422	0.42	27.277	80.5	1.186	
1067	3.92	34.486	0.70	3.25	119.	0.00	41.5	68.0	1000	4.11	34.483	0.61	27.385	70.2	1.354	

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

90070

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
32 04.5N			120 38.5W			3/19/72		2218 GMT			3738M	350	15KT	0	330 12 7		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	14.26	33.28		24.826	313.3	0.000		
									10	14.26	33.28		24.826	313.3	0.031		
									20	14.15	33.26		24.834	312.6	0.063		
									30	14.08	33.25		24.841	311.9	0.094		
									50	13.57	33.20		24.907	305.6	0.156		
									75	12.17	33.11		25.113	286.1	0.230		
									100	11.40	33.27		25.379	260.7	0.299		
									125	10.58	33.43		25.650	235.0	0.362		
									150	9.87	33.66		25.950	206.4	0.418		
									200	8.80	33.95		26.349	168.5	0.513		
									250	8.14	34.01		26.498	154.4	0.596		
									300	7.80	34.12		26.634	141.4	0.672		
									400	6.98	34.26		26.861	119.9	0.808		
									500	6.33	34.31		26.987	107.9	0.929		
									600	5.84	34.35		27.081	99.0	1.040		
									700	5.24	34.40		27.194	88.3	1.141		
									800	4.81	34.43		27.267	81.4	1.235		
									1000	4.06	34.48		27.389	69.9	1.404		

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

90080

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 44.5N			121 19.5W			3/20/72		0256 GMT			3738M	350	18KT				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	13.72	33.33		24.977	299.0	0.000		
									10	13.72	33.33		24.977	299.0	0.030		
									20	13.72	33.33		24.977	299.0	0.060		
									30	13.72	33.33		24.977	299.0	0.090		
									50	13.71	33.34		24.987	298.0	0.150		
									75	13.13	33.31		25.081	289.1	0.224		
									100	12.60	33.32		25.192	278.5	0.295		
									125	11.39	33.33		25.428	256.1	0.362		
									150	10.56	33.48		25.692	231.0	0.424		
									200	9.16	33.87		26.230	179.8	0.529		
									250	8.63	34.09		26.485	155.6	0.614		
									300	8.10	34.12		26.590	145.6	0.692		
									400	7.13	34.25		26.832	122.7	0.832		
									500	6.32	34.31		26.988	107.8	0.954		
									600	5.65	34.35		27.105	96.8	1.064		
									700	5.09	34.40		27.212	86.7	1.163		
									800	4.68	34.44		27.290	79.2	1.254		
									1000	4.13	34.49		27.389	69.8	1.421		

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

90090

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER TIME			BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
31 44.5N			121 19.5W			3/20/72		0407 0430 GMT			3738M	350	18KT				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	13.70	33.336	6.10	24.986	298.2	0.000		
									10	13.71	33.337	6.11	24.983	298.4	0.030		
									20	13.72	33.340	5.77	24.984	298.3	0.060		
									30	13.72	33.340	5.33	24.985	298.2	0.090		
									50	13.47	33.349	5.25	25.041	292.8	0.149		
									75	13.10	33.350	5.68	25.116	285.7	0.222		
									100	12.40	33.315	5.58	25.225	275.4	0.292		
									125	11.46	33.342	5.11	25.424	256.5	0.359		
									150	10.41	33.469	4.43	25.709	229.3	0.421		
									200	9.04	33.890	3.22	26.264	176.6	0.524		
									250	8.40	34.047	2.30	26.485	155.6	0.609		
									300	8.03	34.139	1.81	26.615	143.3	0.686		
									400	7.20	34.222	0.96	26.800	125.7	0.827		
									500	6.31	34.291	0.36	26.974	109.2	0.951		
									600	5.57	34.337	0.28	27.103	96.9	1.061		
									700	5.05	34.382	0.29	27.201	87.7	1.161		
									800	4.70	34.431	0.38	27.280	80.2	1.253		
									1000	4.08	34.485	0.69	27.390	69.8	1.421		

A) THE NANSEN BOTTLE AT THIS DEPTH FAILED TO TRIP AND WAS RELOWERED AND TRIPPED ALONE. IT APPEARS TO HAVE LEAKED AS THERE WAS INSUFFICIENT WATER FOR ALL SAMPLES.

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 93090

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
31 24.0N	122 01.0W	3/20/72	0847 GMT	3926M	350	13KT									
Z	T	S	02	PO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	14.41	33.39		24.880	308.2	0.000
									10	14.41	33.39		24.880	308.2	0.031
									20	14.44	33.40		24.881	308.1	0.062
									30	14.44	33.40		24.881	308.1	0.093
									50	14.47	33.41		24.882	308.0	0.154
									75	14.56	33.52		24.948	301.8	0.231
									100	13.90	33.50		25.071	290.0	0.306
									125	12.59	33.38		25.241	273.9	0.377
									150	10.96	33.39		25.552	244.3	0.442
									200	9.55	33.75		26.073	194.7	0.554
									250	8.50	33.98		26.419	161.8	0.645
									300	7.71	34.00		26.553	149.1	0.725
									400	6.22	34.07		26.812	124.5	0.867
									500	5.67	34.20		26.984	108.2	0.989
									600	5.17	34.30		27.123	95.0	1.098
									700	4.84	34.38		27.225	85.4	1.195
									800	4.49	34.42		27.295	78.7	1.285
									1000	3.94	34.50		27.417	67.2	1.448

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 93028

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 55.0N	117 22.0W	3/21/72	2216 GMT	556M	310	7KT	0								
Z	T	S	02	PO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	15.15	33.48		24.790	316.8	0.000
									10	14.17	33.50		25.015	295.4	0.031
									20	12.70	33.46		25.281	270.0	0.059
									30	12.05	33.48		25.421	256.7	0.085
									50	11.41	33.56		25.602	239.5	0.135
									75	10.70	33.64		25.792	221.5	0.193
									100	9.92	33.81		26.058	196.1	0.246
									125	9.48	33.96		26.248	178.1	0.293
									150	9.66	34.14		26.359	167.6	0.337
									200	9.07	34.18		26.486	155.5	0.419
									250	8.47	34.25		26.635	141.3	0.496
									300	7.98	34.25		26.709	134.3	0.567
									400	7.24	34.25		26.816	124.1	0.702
									500	6.53	34.31		26.987	107.9	0.825

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 93030

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 50.5N	117 31.0W	3/21/72	2114 GMT	851M	300	8KT	0								
Z	T	S	02	PO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	14.89	33.48		24.846	311.4	0.000
									10	14.85	33.49		24.862	309.9	0.031
									20	14.43	33.44		24.914	305.0	0.062
									30	13.55	33.36		25.035	293.5	0.092
									50	12.31	33.34		25.264	271.7	0.149
									75	11.12	33.51		25.616	238.2	0.213
									100	10.34	33.73		25.924	208.9	0.269
									125	9.97	33.97		26.174	185.1	0.319
									150	9.63	34.06		26.301	173.0	0.364
									200	9.21	34.20		26.479	156.1	0.448
									250	8.81	34.26		26.590	145.6	0.526
									300	8.37	34.30		26.690	136.2	0.599
									400	7.25	34.27		26.831	122.8	0.734
									500	6.31	34.31		26.990	107.7	0.856
									600	5.86	34.36		27.087	98.5	0.967
									700	5.41	34.40		27.174	90.3	1.069

RV DAVID STARR JORDAN CALCOFI CRUISE 7203 93040

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
32 30.0N	118 12.0W	3/21/72	1608 GMT	1757M	050	3KT	1								
Z	T	S	02	PO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
									0	14.16	33.47		24.994	297.4	0.000
									10	14.12	33.47		25.002	296.6	0.030
									20	14.07	33.47		25.012	295.6	0.059
									30	13.79	33.45		25.055	291.5	0.089
									50	12.66	33.46		25.289	269.3	0.145
									75	11.40	33.50		25.558	243.7	0.210
									100	10.30	33.60		25.830	217.8	0.268
									125	9.59	33.75		26.066	195.4	0.320
									150	9.19	33.86		26.217	181.0	0.368
									200	8.21	33.99		26.471	156.9	0.454
									250	7.75	34.04		26.579	146.7	0.532
									300	7.24	34.11		26.707	134.6	0.604
									400	6.46	34.20		26.883	117.8	0.735
									500	6.12	34.31		27.014	103.4	0.853
									600	5.65	34.37		27.121	95.3	0.961
									700	5.25	34.40		27.193	88.5	1.061
									800	4.84	34.43		27.264	81.7	1.154
									1000	4.12	34.48		27.383	70.5	1.324

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

93050

LATITUDE 32 10.0N	LONGITUDE 118 52.5W	MO/DAY/YR 3/21/72	MESSENGER TIME 1041 GMT			BOTTOM 1479M	WIND 110	SPEED 2KT	WEATHER	DOMINANT WAVES					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.80	33.51		24.889	307.4	0.000
									10	14.75	33.51		24.899	306.4	0.031
									20	14.73	33.51		24.904	305.9	0.061
									30	14.70	33.51		24.910	305.3	0.092
									50	13.62	33.42		25.067	290.4	0.152
									75	12.34	33.35		25.266	271.5	0.222
									100	10.89	33.51		25.657	234.2	0.286
									125	9.92	33.67		25.949	206.5	0.342
									150	9.43	33.87		26.186	184.0	0.391
									200	8.65	34.01		26.420	161.8	0.479
									250	8.30	34.14		26.575	147.0	0.559
									300	7.83	34.18		26.677	137.4	0.632
									400	7.13	34.28		26.855	120.4	0.767
									500	6.35	34.31		26.985	108.2	0.888
									600	5.73	34.36		27.103	97.0	0.998
									700	5.25	34.40		27.193	88.5	1.098
									800	4.78	34.43		27.271	81.1	1.192
									1000	4.15	34.48		27.379	70.8	1.361

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

93060

LATITUDE 31 51.0N	LONGITUDE 119 33.0W	MO/DAY/YR 3/21/72	MESSENGER TIME 0436 GMT			BOTTOM 2043M	WIND 120	SPEED 3KT	WEATHER	DOMINANT WAVES					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.97	33.54		24.875	308.7	0.000
									10	14.98	33.54		24.873	308.9	0.031
									20	14.95	33.54		24.879	308.3	0.062
									30	14.92	33.53		24.878	308.4	0.093
									50	14.07	33.44		24.989	297.8	0.154
									75	12.74	33.35		25.188	278.9	0.226
									100	11.38	33.43		25.507	248.5	0.292
									125	10.19	33.56		25.818	219.0	0.351
									150	9.62	33.81		26.108	191.4	0.403
									200	8.74	33.98		26.382	165.4	0.494
									250	7.99	34.05		26.551	149.3	0.575
									300	7.19	34.07		26.682	136.9	0.649
									400	6.20	34.16		26.886	117.6	0.781
									500	5.61	34.25		27.031	103.8	0.898
									600	5.15	34.31		27.133	94.1	1.003
									700	4.83	34.35		27.202	87.6	1.101
									800	4.51	34.41		27.285	79.7	1.193
									1000	3.97	34.48		27.398	69.0	1.358

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

93040

LATITUDE 31 51.0N	LONGITUDE 119 33.0W	MO/DAY/YR 3/21/72	MESSENGER TIME 0548 GMT			BOTTOM 2043M	WIND 120	SPEED 3KT	WEATHER	DOMINANT WAVES					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	14.95	33.537	5.58	0.27	2.	0.01	0.0	308.5	0	14.95	33.537	5.58	24.877	308.5	0.000
11	14.96	33.534	5.89	0.26	3.	0.00	0.0	308.9	10	14.96	33.536	5.87	24.873	308.9	0.031
31	14.92	33.530	5.93	0.27	2.	0.00	0.0	308.4	20	14.94	33.534	5.91	24.875	308.7	0.062
61	13.50	33.417	6.04	0.30	2.	0.00	0.0	288.3	30	14.92	33.532	5.93	24.878	308.4	0.093
81	12.42	33.382	5.66	0.55	5.	0.08	3.6	270.6	50	14.13	33.462	6.00	24.993	297.5	0.154
95	11.64	33.419	5.28	0.79	7.	0.03	7.2	253.9	75	12.75	33.387	5.80	25.213	276.5	0.226
110	10.63	33.558	4.73	1.08	12.	0.00	12.3	227.8	100	11.29	33.455	5.10	25.541	245.3	0.291
140	9.82	33.770	4.02	1.45	20.	0.01	19.0	197.5	125	10.11	33.663	4.32	25.910	210.2	0.349
165	9.31	33.891	3.70	1.61	24.	0.01	21.5	180.6	150	9.60	33.827	3.87	26.123	190.0	0.400
195	8.84	33.976	3.45	1.82	30.	0.00	22.5	167.1	200	8.76	33.991	3.35	26.386	165.0	0.490
228	8.31	34.050	2.77	2.06	37.	0.00	25.2	153.9	250	7.94	34.063	2.53	26.568	147.7	0.570
297	7.21	34.062	2.19	2.39	50.	0.00	30.9	137.7	300	7.17	34.065	2.15	26.680	137.1	0.644
405	6.22	34.149	0.95	2.86	70.	0.00	37.6	118.6	400	6.25	34.145	1.00	26.867	119.4	0.777
510	5.76	34.255	0.55	3.11	81.	0.00	41.8	105.2	500	5.79	34.247	0.57	27.005	106.3	0.896
646	5.10	34.329	0.37	3.22	95.	0.00	44.3	92.1	600	5.32	34.308	0.43	27.112	96.1	1.004
800	4.58	34.415	0.60	3.29	107.	0.00	42.4	80.0	700	4.91	34.362	0.43	27.202	87.5	1.103
967	3.99	34.466	0.64	3.24	120.	0.00	42.1	70.2	800	4.58	34.415	0.60	27.281	80.0	1.195
1173	3.54	34.520	0.91	3.23	130.	0.00	43.1	61.9	1000	3.90	34.476	0.67	27.402	68.6	1.360

RV DAVID STARR JORDAN

CALCOFI CRUISE 7203

93070

LATITUDE 31 30.0N	LONGITUDE 120 14.0W	MO/DAY/YR 3/20/72	MESSENGER TIME 2346 GMT			BOTTOM 3926M	WIND 150	SPEED 1KT	WEATHER 2	DOMINANT WAVES 340 6 7					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
									0	15.26	33.57		24.835	312.5	0.000
									10	15.13	33.59		24.879	308.3	0.031
									20	15.08	33.58		24.882	308.0	0.062
									30	14.99	33.57		24.894	306.9	0.093
									50	13.02	33.43		25.195	278.2	0.151
									75	11.07	33.47		25.594	240.3	0.217
									100	10.32	33.56		25.796	221.1	0.275
									125	9.73	33.77		26.059	196.1	0.327
									150	9.14	33.92		26.272	175.8	0.375
									200	8.53	34.05		26.470	157.1	0.459
									250	7.94	34.11		26.606	144.1	0.537
									300	7.34	34.17		26.740	131.4	0.608
									400	6.10	34.18		26.915	114.8	0.736
									500	5.91	34.33		27.057	101.3	0.850
									600	5.31	34.36		27.154	92.1	0.954
									700	4.96	34.41		27.234	84.5	1.050
									800	4.59	34.44		27.300	78.3	1.139
									1000	3.98	34.50		27.413	67.6	1.302

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						93080			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
31 10.0N	120 54.5W	3/20/72	1851	GMT	3738M	050	6KT	2	290	8	10				
Z	T	S	Q2	PO4	SI03	NO2	NO3	DT	Z	T	S	Q2	StGT	DT	DD
									0	14.23	33.43		24.948	301.7	0.000
									10	14.21	33.43		24.952	301.3	0.030
									20	14.20	33.44		24.962	300.4	0.060
									30	14.20	33.44		24.962	300.4	0.090
									50	12.70	33.47		25.289	269.3	0.148
									75	10.93	33.52		25.658	234.2	0.211
									100	10.08	33.64		25.899	211.3	0.267
									125	9.56	33.76		26.079	194.2	0.318
									150	9.14	33.87		26.233	179.5	0.366
									200	8.43	34.02		26.461	157.8	0.452
									250	7.58	34.07		26.627	142.1	0.528
									300	6.97	34.11		26.744	131.0	0.599
									400	5.93	34.17		26.928	113.5	0.726
									500	5.31	34.25		27.067	100.4	0.839
									600	4.95	34.33		27.172	90.4	0.940
									700	4.64	34.40		27.263	81.8	1.033
									800	4.45	34.45		27.323	76.1	1.120
									1000	3.89	34.51		27.430	65.9	1.279

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						93090			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
30 50.0N	121 34.5W	3/20/72	1347	GMT	4213M	350	15KT	2	340	10	7				
Z	T	S	Q2	PO4	SI03	NO2	NO3	DT	Z	T	S	Q2	StGT	DT	DD
									0	13.77	33.32		24.959	300.7	0.000
									10	13.77	33.32		24.959	300.7	0.030
									20	13.77	33.32		24.959	300.7	0.060
									30	13.77	33.32		24.959	300.7	0.090
									50	13.77	33.33		24.967	300.0	0.151
									75	12.70	33.35		25.196	278.1	0.223
									100	12.30	33.42		25.327	265.6	0.292
									125	12.18	33.47		25.389	259.8	0.358
									150	10.54	33.44		25.664	233.6	0.421
									200	9.08	33.94		26.297	173.4	0.524
									250	8.08	34.01		26.506	153.6	0.608
									300	7.48	34.15		26.704	134.8	0.682
									400	6.79	34.27		26.894	116.7	0.813
									500	5.96	34.32		27.043	102.7	0.929
									600	5.41	34.38		27.158	91.8	1.034
									700	4.97	34.43		27.249	83.1	1.129
									800	4.58	34.45		27.309	77.4	1.217
									1000	4.08	34.49		27.395	69.3	1.381

RV DAVID STARR JORDAN						CALCOFI CRUISE 7203						94029			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
32 47.5N	117 26.0W	3/ 1/72	0335	GMT	M		KT								
Z	T	S	Q2	PO4	SI03	NO2	NO3	DT	Z	T	S	Q2	StGT	DT	DD
									0A	14.34	33.48		24.964	300.2	0.000
									10	12.97	33.44		25.213	276.5	0.029
									20	11.77	33.45		25.451	253.9	0.055
									30	11.28	33.51		25.587	240.9	0.080
									50	10.65	33.63		25.793	221.4	0.127
									75	9.68	33.64		25.966	204.9	0.180
									100	10.01	34.00		26.191	183.5	0.229
									125	9.65	34.09		26.321	171.1	0.274
									150	9.48	34.17		26.412	162.5	0.317
									200	9.23	34.24		26.507	153.5	0.397
									250	8.81	34.24		26.574	147.1	0.475
									300	8.47	34.26		26.643	140.6	0.549

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						94030			
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
32 42.5N	117 27.0W	3/ 7/72	0026	GMT	537M	030	6KT	2	270	1	1				
Z	T	S	Q2	PO4	SI03	NO2	NO3	DT	Z	T	S	Q2	StGT	DT	DD
									0A	14.70	33.45		24.864	309.7	0.000
									10	13.88	33.46		25.044	292.6	0.030
									20	13.29	33.42		25.133	284.1	0.059
									30	12.49	33.35		25.237	274.2	0.087
									50	11.39	33.48		25.544	245.0	0.139
									75	10.68	33.64		25.795	221.1	0.198
									100	9.65	33.84		26.127	189.6	0.249
									125	10.04	34.08		26.248	178.1	0.296
									150	9.45	34.05		26.323	171.0	0.340
									200	9.37	34.24		26.484	155.6	0.424
									250	8.68	34.25		26.603	144.4	0.501
									300	8.40	34.26		26.654	139.6	0.574
									400	7.21	34.23		26.803	125.2	0.713
									500	6.43	34.31		26.974	109.2	0.837

A) A SHAKEDOWN STATION.

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										94050
LATITUDE	LONGITUDE	MO/DAT/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
32 42.5N	117 27.0W	3/ 7/72			0223	GMT		537M	030	6KT	2	270 1 1				
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1A	14.72	33.482	6.36	0.28	3.	0.00	0.0	307.8	0	14.72	33.482	6.36	24.884	307.8	0.000	
10	14.02	33.477	6.25	0.29	2.	0.00	0.0	294.1	10	14.02	33.477	6.25	25.028	294.1	0.030	
30	12.44	33.452	5.39	0.79	5.	0.06	0.0	265.8	20	13.17	33.460	5.86	25.186	279.1	0.059	
46	11.85	33.505	4.85	0.98	8.	0.27	7.5	251.3	30	12.44	33.452	5.39	25.325	265.8	0.086	
66	10.86	33.602	3.67	1.38	14.	0.02	14.2	227.0	50	11.63	33.526	4.57	25.534	246.0	0.137	
82	10.66	33.651	3.93	1.44	15.	0.01	16.0	220.0	75	10.73	33.629	3.79	25.777	222.9	0.196	
102	10.11	33.812	3.31	1.73	20.	0.01	18.7	199.0	100	10.16	33.794	3.39	26.004	201.3	0.250	
127	10.02	34.044	2.64	2.04	27.	0.00	23.1	180.4	125	10.03	34.029	2.68	26.209	181.7	0.298	
148	9.41	34.112	2.38	2.26	31.	0.00	24.8	165.7	150	9.41	34.123	2.35	26.385	165.0	0.342	
178	9.45	34.201	1.98	2.35	35.	0.00	26.2	159.8	200	9.41	34.243	1.74	26.480	156.0	0.424	
209	9.39	34.257	1.65	2.50	38.	0.01	27.2	154.7	250	8.98	34.251	1.38	26.556	148.9	0.503	
239	9.12	34.252	1.43	2.50	40.	0.01	27.9	150.9	300	8.33	34.246	1.24	26.653	139.6	0.578	
278	8.60	34.247	1.30	2.62	44.	0.02	27.7	143.5								
339	7.89	34.244	1.14	2.78	51.	0.00	30.4	133.5								

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										97035
LATITUDE	LONGITUDE	MO/DAT/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
32 05.0N	117 26.0W	3/ 7/72			0948	GMT		1128M		1KT	0	00				
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	14.57	33.42											24.869	309.3	0.000	
10	14.57	33.45											24.892	307.1	0.031	
20	14.31	33.44											24.939	302.6	0.061	
30	13.72	33.43											25.054	291.6	0.091	
50	12.78	33.42											25.235	274.4	0.148	
75	11.65	33.52											25.527	246.6	0.213	
100	10.78	33.78											25.886	212.5	0.271	
125	10.48	33.96											26.079	194.2	0.323	
150	10.24	34.09											26.222	180.6	0.370	
200	8.75	34.10											26.474	156.6	0.456	
250	7.86	34.08											26.594	145.2	0.534	
300	7.75	34.20											26.704	134.8	0.606	
400	7.08	34.26											26.847	121.3	0.740	
500	6.31	34.32											26.998	106.9	0.861	
600	5.81	34.36											27.093	97.9	0.970	
700	5.40	34.39											27.167	90.9	1.073	
800	4.97	34.42											27.241	83.9	1.169	
1000	4.25	34.47											27.361	72.5	1.344	

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										97040
LATITUDE	LONGITUDE	MO/DAT/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
31 55.5N	117 47.0W	3/ 7/72			1245	GMT		1572M		0KT	0	00				
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	14.65	33.45											24.875	308.7	0.000	
10	14.64	33.45											24.877	308.5	0.031	
20	14.18	33.44											24.966	300.0	0.061	
30	13.80	33.43											25.037	293.2	0.091	
50	12.65	33.42											25.260	272.0	0.148	
75	11.20	33.53											25.617	238.0	0.212	
100	10.34	33.61											25.831	217.7	0.269	
125	10.45	33.90											26.037	198.1	0.322	
150	9.21	33.94											26.276	175.4	0.369	
200	9.11	34.12											26.433	160.5	0.455	
250	8.23	34.15											26.594	145.3	0.534	
300	7.89	34.23											26.707	134.5	0.606	
400	7.18	34.30											26.864	119.6	0.739	
500	6.41	34.32											26.985	108.2	0.859	
600	5.79	34.35											27.088	98.4	0.970	
700	5.31	34.38											27.170	90.6	1.073	
800	4.94	34.42											27.245	83.5	1.168	
1000	4.20	34.47											27.366	72.0	1.342	

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										97050
LATITUDE	LONGITUDE	MO/DAT/YR			MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
31 33.5N	118 28.5W	3/ 7/72			1900	GMT		2490M	260	4KT	2	320 3 8				
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	14.14	33.42											24.959	300.6	0.000	
10	13.88	33.40											24.998	297.0	0.030	
20	13.43	33.40											25.090	288.2	0.059	
30	12.80	33.38											25.200	277.8	0.088	
50	12.12	33.37											25.323	266.0	0.142	
75	11.14	33.46											25.574	242.2	0.206	
100	10.40	33.64											25.844	216.5	0.264	
125	9.92	33.75											26.011	200.6	0.317	
150	9.17	33.86											26.220	180.7	0.365	
200	8.60	34.00											26.420	161.8	0.452	
250	8.00	34.09											26.581	146.5	0.531	
300	7.32	34.10											26.688	136.4	0.604	
400	6.70	34.24											26.883	117.8	0.737	
500	5.99	34.29											27.015	105.3	0.854	
600	5.54	34.36											27.126	94.7	0.961	
700	5.11	34.39											27.201	87.6	1.060	
800	4.69	34.43											27.281	80.1	1.153	
1000	4.05	34.48											27.390	69.8	1.320	

A) A SHAKEDOWN STATION.

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							97040
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
31 15.5N		119 09.5W		3/28/72		0035 GMT			3657M	320	18KT	1	330 4 6				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD		
1	14.92	33.535	6.01	0.29	1.	0.01	0.0	308.0	0	14.92	33.535	6.01	24.882	308.0	0.000		
11	14.91	33.530	5.97	0.29	2.	0.00	0.0	308.2	10	14.91	33.532	5.97	24.880	308.2	0.031		
31	14.92	33.530	6.03	0.29	2.	0.00	0.0	308.4	20	14.91	33.532	5.99	24.879	308.3	0.062		
56	14.78	33.530	5.94	0.31	2.	0.01	0.0	305.5	30	14.92	33.532	6.03	24.878	308.4	0.093		
71	13.18	33.429	5.73	0.48	3.	0.08	1.4	281.3	50	14.81	33.532	5.96	24.901	306.2	0.154		
86	12.28	33.393	5.60	0.61	5.	0.03	4.4	267.2	75	12.90	33.416	5.70	25.207	277.1	0.228		
101	11.54	33.420	5.27	0.81	6.	0.00	7.6	252.1	100	11.59	33.418	5.30	25.459	253.1	0.294		
131	10.19	33.638	4.35	1.31	15.	0.01	15.7	213.2	125	10.42	33.587	4.53	25.798	220.9	0.354		
156	9.65	33.818	3.90	1.56	21.	0.05	19.1	191.3	150	9.75	33.781	3.98	26.063	195.7	0.407		
182	9.21	33.916	3.69	1.64	25.	0.01	20.5	177.2	200	8.88	33.966	3.53	26.348	168.6	0.500		
217	8.58	34.000	3.35	1.88	31.	0.00	22.0	161.5	250	8.08	34.049	2.78	26.537	150.7	0.582		
282	7.67	34.082	2.18	2.38	47.	0.00	29.0	142.5	300	7.50	34.106	1.94	26.665	138.5	0.656		
383	6.87	34.19	1.13	2.87	62.	0.00	32.3	123.7	400	6.71	34.198	1.02	26.848	121.2	0.791		
484	6.00	34.231	0.66	3.06	76.	0.00	35.9	109.8	500	5.93	34.247	0.61	26.989	107.8	0.912		
620	5.51	34.358	0.37	3.24	91.	0.02	35.9	94.5	600	5.56	34.340	0.39	27.107	96.5	1.021		
774	4.80	34.414	0.42	3.30	96.	0.00	37.8	82.5	700	5.14	34.393	0.40	27.199	87.8	1.121		
920	4.26	34.476	0.65		97.	0.00	37.6	72.2	800	4.69	34.427	0.46	27.277	80.4	1.214		
1129	3.69	34.501	0.84		107.	0.00	38.2	64.7	1000	4.01	34.495	0.74	27.405	68.3	1.380		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							97070
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
30 58.5N		119 53.0W		3/27/72		1830 GMT			3661M	330	17KT	1	330 4 6				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD		
1	14.25	33.434						301.8	0	14.25	33.434		24.947	301.8	0.000		
10	14.23	33.421						302.4	10	14.23	33.421		24.941	302.4	0.030		
30	14.23	33.422						302.3	20	14.23	33.423		24.942	302.3	0.060		
54	13.16	33.405						282.7	30	14.23	33.422		24.942	302.3	0.091		
69	11.29	33.458						244.9	50	13.46	33.407		25.087	288.5	0.150		
84	10.56	33.557						225.3	75	10.93	33.498		25.640	235.9	0.216		
99	9.90	33.661						206.9	100	9.87	33.671		25.958	205.7	0.272		
128	9.24	33.890						179.6	125	9.28	33.870		26.209	181.8	0.321		
153	8.84	33.971						167.5	150	8.88	33.966		26.348	168.6	0.365		
178	8.51	34.009						159.8	200	8.12	34.014		26.503	153.9	0.447		
213	7.90	34.015						150.6	250	7.61	34.082		26.631	141.7	0.523		
278	7.46	34.137						135.5	300	7.19	34.153		26.746	130.8	0.593		
378	6.23	34.182						116.3	400	6.06	34.199		26.933	113.1	0.720		
478	5.64	34.258						103.5	500	5.54	34.275		27.058	101.2	0.833		
613	5.13	34.348						91.0	600	5.17	34.341		27.155	92.0	0.936		
767	4.63	34.421						80.1	700	4.85	34.394		27.234	84.5	1.032		
914	4.09	34.458						71.8	800	4.50	34.431		27.302	78.1	1.121		
1125	3.61	34.500						64.0	1000	3.85	34.478		27.408	68.1	1.284		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							97080
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
30 31.0N		120 31.0W		3/27/72		1245 GMT			4011M	340	20KT						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD		
1	14.05	33.446						297.0	0	14.05	33.446		24.998	297.0	0.000		
11	14.05	33.446						297.0	10	14.05	33.448		24.998	297.0	0.030		
32	14.06	33.444						297.3	20	14.05	33.447		24.997	297.1	0.059		
57	11.26	33.472						243.4	30	14.06	33.446		24.995	297.3	0.089		
72	10.79	33.503						233.1	50	12.07	33.454		25.396	259.1	0.145		
87	10.04	33.616						212.4	75	10.64	33.522		25.710	229.2	0.206		
102	9.63	33.762						195.1	100	9.67	33.744		26.047	197.2	0.260		
132	9.09	33.924						174.8	125	9.20	33.901		26.247	178.2	0.308		
157	8.71	33.970						165.7	150	8.81	33.963		26.357	167.7	0.352		
183	8.38	34.002						158.4	200	8.07	34.013		26.509	153.3	0.433		
218	7.74	34.020						148.0	250	7.31	34.047		26.646	140.3	0.509		
283	6.95	34.074						133.4	300	6.75	34.086		26.754	130.1	0.578		
383	5.96	34.142						116.0	400	5.86	34.159		26.928	113.6	0.705		
483	5.52	34.243						103.3	500	5.49	34.262		27.055	101.5	0.818		
619	5.23	34.370						90.5	600	5.27	34.356		27.155	92.1	0.922		
772	4.34	34.414						77.6	700	4.77	34.399		27.247	83.3	1.017		
919	3.90	34.469						69.1	800	4.24	34.425		27.326	75.8	1.104		
1131	3.45	34.519						61.1	1000	3.70	34.493		27.435	65.5	1.261		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							97090
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
30 14.5N		121 09.0W		3/27/72		0528 GMT			3888M	340	18KT	1					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD		
0	13.98	33.320						304.8	0	13.98	33.320		24.916	304.8	0.000		
10	13.99	33.318						305.2	10	13.99	33.318		24.912	305.2	0.031		
30	13.99	33.339						303.6	20	13.99	33.331		24.920	304.4	0.061		
55	13.85	33.445						293.1	30	13.99	33.339		24.928	303.6	0.091		
70	13.31	33.393						286.4	50	13.88	33.420		25.012	295.6	0.152		
85	12.54	33.311						278.0	75	13.06	33.360		25.131	284.3	0.225		
100	11.87	33.402						259.2	100	11.87	33.402		25.395	259.2	0.293		
130	10.82	33.521						232.3	125	10.99	33.503		25.633	236.6	0.356		
156	9.73	33.697						201.5	150	9.97	33.655		25.927	208.6	0.412		
181	9.04	33.861						178.7	200	8.79	33.943		26.345	168.9	0.508		
216	8.63	33.987						163.2	250	8.03	34.019		26.520	152.2	0.590		
281	7.50	34.027						144.2	300	7.38	34.068		26.653	139.7	0.666		
381	7.11	34.239						123.2	400	6.96	34.258		26.861	119.9	0.801		
481	6.26	34.303						107.6	500	6.14	34.315		27.015	105.3	0.920		
615	5.52	34.373						93.5	600	5.59	34.367		27.125	94.8	1.027		
767	4.75	34.425						81.1	700	5.07	34.405		27.217	86.1	1.125		
914	4.27	34.467						73.0	800	4.63	34.436		27.292	79.0	1.216		
1124	3.69	34.505						64.4	1000	4.02	34.486		27.398	69.0	1.382		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							100030
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES			
31 40.5N		116 46.5W		3/25/72		1222		GMT	408M	220	2KT	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	14.39	33.494	6.37	0.24	3.	0.00	0.0	300.2	0	14.39	33.494	6.37	24.964	300.2	0.000		
10	13.93	33.489	6.30	0.29	4.	0.01	0.0	291.4	10	13.93	33.489	6.30	25.056	291.4	0.030		
30	12.08	33.481	5.25	0.79	8.	0.08	4.4	257.1	20	13.01	33.485	5.82	25.239	274.0	0.058		
40	11.59	33.534	4.89	1.00	10.	0.15	8.8	244.5	30	12.08	33.481	5.25	25.417	257.1	0.085		
50	10.86	33.619	4.25	1.33	14.	0.02	14.2	225.7	50	10.86	33.619	4.25	25.747	225.7	0.133		
65	10.61	33.672	3.97	1.43	16.	0.02	15.6	217.6	75	10.19	33.725	4.00	25.945	206.9	0.187		
80	9.98	33.754	4.03	1.49	18.	0.01	17.8	201.2	100	9.73	33.902	3.65	26.162	186.3	0.237		
100	9.73	33.902		1.77	24.	0.00	21.6	186.3	125	9.79	34.018	2.78	26.242	178.7	0.283		
125	9.79	34.018	2.78	2.01	28.	0.00	23.1	178.7	150	9.56	34.185	1.92	26.410	162.8	0.327		
145	9.61	34.165	2.02	2.29	34.	0.00	25.8	164.9	200	9.13	34.260	1.61	26.539	150.4	0.407		
175	9.31	34.231	1.69	2.48	39.	0.00	27.8	155.4	250	8.71	34.294	1.30	26.632	141.6	0.482		
205	9.09	34.263	1.60	2.56	39.	0.00	28.9	149.6	300	8.31	34.300	1.13	26.698	135.3	0.554		
235	8.82	34.287	1.38	2.65	44.	0.02	29.1	143.8									
275	8.52	34.297	1.20	2.77	48.	0.00	30.0	138.6									
334	8.00	34.298	1.07	2.84	54.	0.00	30.7	131.0									

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							100035
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES			
31 31.0N		117 07.0W		3/25/72		1526		GMT	1165M	210	3KT	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	14.79	33.477						309.6	0	14.79	33.48		24.865	309.6	0.000		
10	14.44	33.468						303.1	10	14.44	33.47		24.933	303.1	0.031		
30	14.29	33.459						300.8	20	14.37	33.47		24.946	302.0	0.061		
40	13.27	33.392						285.7	30	14.29	33.46		24.958	300.8	0.091		
50	12.44	33.367						272.1	50	12.44	33.37		25.260	272.1	0.149		
65	11.99	33.400						261.5	75	11.45	33.46		25.518	247.5	0.214		
80	11.16	33.498						239.7	100	10.30	33.65		25.871	214.0	0.272		
100	10.30	33.652						214.0	125	10.18	33.88		26.070	195.0	0.324		
126	10.18	33.89	A					194.4	150	9.66	33.99		26.241	178.7	0.371		
146	9.74	33.98	A					180.7	200	9.19	34.11		26.409	162.8	0.458		
176	9.28	34.04	A					169.1	250	8.45	34.17		26.576	147.0	0.538		
206	9.16	34.12	A					161.3	300	8.27	34.27		26.684	136.7	0.611		
237	8.59	34.15	A					150.5	400	7.33	34.30		26.839	122.0	0.747		
278	8.27	34.22	A					140.7	500	6.38	34.33		26.994	107.3	0.868		
338	8.26	34.35	A					130.9									
412	7.12	34.28	A					120.3									
488	6.46	34.32	A					108.8									
567	6.01	34.36	A					100.3									

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							100040
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER		DOMINANT WAVES			
31 22.0N		117 26.5W		3/25/72		1845		GMT	1892M	160	4KT	O2	SIGT	DT	DD		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	15.29		B	6.07	0.10	3.	0.02	0.0	0	15.29	33.54	6.07	24.805	315.3	0.000		
11	14.79	33.54		6.15	0.10	3.	0.01	0.0	305.0	10	14.86	33.55	6.14	24.906	305.7	0.031	
31	14.49	33.53		5.92	0.14	3.	0.01	0.0	299.6	20	14.71	33.54	6.05	24.928	303.6	0.062	
55	11.69	33.51		5.00	0.86	8.	0.08	4.8	248.1	30	14.52	33.53	5.93	24.965	300.1	0.092	
70	11.18	33.60		4.60	1.14	11.	0.04	10.6	232.5	50	12.28	33.50	5.21	25.392	259.5	0.148	
84	10.69	33.65		4.20	1.38	15.	0.02	14.7	222.0	75	11.00	33.61	4.45	25.717	228.6	0.209	
99	10.33	33.71		4.02	1.48	17.	0.02	16.6	210.2	100	10.30	33.72	4.01	25.919	209.5	0.265	
128	9.60	33.87		3.57	1.71	23.	0.01	20.7	186.6	125	9.67	33.85	3.62	26.133	189.0	0.315	
152	9.09	33.99		3.24	1.96	28.	0.02	21.9	169.9	150	9.12	33.98	3.27	26.322	171.1	0.361	
177	8.98			2.68	2.17	33.	0.01	25.4		200	8.31	34.03	2.88	26.488	155.4	0.444	
211	7.95	34.02		3.04	2.12	38.	0.00	26.2	151.0	250	7.32	34.04	2.66	26.638	141.1	0.520	
275	7.20	34.07		2.22	2.49	50.	0.00	31.3	137.0	300	7.18	34.13	1.87	26.727	132.6	0.590	
372	7.11	34.26		1.00	2.95	61.	0.00	34.4	121.7	400	6.95	34.29	0.80	26.886	117.5	0.721	
469	6.47	34.33		0.52	3.15	72.	0.02	34.7	108.2	500	6.30	34.35	0.51	27.021	104.7	0.839	
599	5.81			0.47	3.31	84.	0.01	37.2		600	5.80	34.40	0.47	27.125	94.9	0.946	
747	5.06	34.43		0.43	3.42	95.	0.00	39.0	84.1	700	5.29	34.43	0.44	27.208	87.0	1.045	
888	4.50	34.46		0.64	3.40		0.00	37.7	75.8	800	4.83	34.44	0.50	27.275	80.7	1.137	
1092	3.87	34.47		0.83	3.27		0.02	36.9	68.8	1000	4.13	34.47	0.76	27.374	71.2	1.307	

- A) THESE SALINITY SAMPLES WERE DETERMINED ASHORE BY INDUCTIVE SALINOMETER 26 JUNE, THREE MONTHS AFTER COMPLETION OF THE CRUISE.
 B) ALL SALINITY VALUES FOR THIS CAST WERE DETERMINED ASHORE BY INDUCTIVE SALINOMETER 26 JUNE, THREE MONTHS AFTER COMPLETION OF THE CRUISE.

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						100050
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
31 01.0N	118 06.0W	3/26/72	0033 6MT		1772M	290	9KT	2	290	4	9					
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	15.34	33.494						319.7	0	15.34	33.494		24.759	319.7	0.000	
10	14.87	33.490						310.3	10	14.87	33.490		24.858	310.3	0.032	
30	14.73	33.484						307.8	20	14.80	33.489		24.871	309.1	0.063	
55	14.23	33.455						299.9	30	14.73	33.484		24.884	307.8	0.093	
70	13.43	33.413						287.3	50	14.39	33.466		24.942	302.3	0.155	
85	12.84	33.376						278.8	75	13.21	33.400		25.133	284.1	0.228	
100	12.52	33.379						272.7	100	12.52	33.379		25.254	272.7	0.299	
130	10.97	33.474						238.3	125	11.25	33.449		25.543	245.1	0.364	
155	10.03	33.676						207.8	150	10.19	33.635		25.875	213.6	0.422	
180	9.47	33.834						187.3	200	9.06	33.931		26.292	173.9	0.521	
215	8.80	33.988						165.7	250	8.52	34.091		26.502	154.0	0.605	
280	8.35	34.140						147.7	300	8.04	34.141		26.614	143.3	0.681	
380	6.83	34.121						128.4	400	6.71	34.147		26.807	125.0	0.821	
479	6.43	34.261						112.8	500	6.30	34.202		26.968	109.7	0.945	
613	5.59	34.360						95.3	600	5.67	34.354		27.105	96.8	1.055	
766	4.91	34.417						83.4	700	5.17	34.398		27.199	87.8	1.156	
911	4.43	34.454						75.6	800	4.79	34.427		27.267	81.4	1.249	
1123	3.80	34.499						65.9	1000	4.16	34.475		27.374	71.2	1.419	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						100060
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
30 37.5N	118 47.5W	3/26/72	0611 6MT		3046M	340	18KT		340							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	15.56	33.659	6.06	0.44	1.	0.03	0.0	312.3	0	15.56	33.659	6.06	24.837	312.3	0.000	
11	15.56	33.654	5.93	0.32U	1.	0.00	0.0	312.7	10	15.56	33.656	5.94	24.833	312.7	0.031	
31	15.56	33.672	5.94	0.45	1.	0.00	0.0	311.4	20	15.56	33.664	5.93	24.839	312.1	0.063	
56	13.56	33.481	5.90	0.44	2.	0.04	0.0	284.8	30	15.56	33.673	5.94	24.846	311.4	0.094	
71	12.23	33.474	0.81	6.	0.04	8.5U	260.4	50	14.13	33.527	5.91	25.037	293.2	0.154		
86	11.65	33.558	4.74	1.03	8.	0.02	7.4	245.3	75	12.03	33.489	5.22	25.430	255.8	0.224	
101	11.16	33.610	4.25	1.22	11.	0.01	12.3	231.5	100	11.19	33.607	4.28	25.677	232.3	0.285	
131	10.42	33.767	3.76	1.52	17.	0.00	17.6	207.4	125	10.55	33.735	3.84	25.890	212.1	0.341	
156	9.91	33.935	3.21	1.78	23.	0.00	20.8	186.7	150	10.01	33.898	3.34	26.109	191.3	0.392	
182	9.69	34.037	2.84	1.99	27.	0.00	22.7	175.7	200	9.31	34.064	2.83	26.356	167.9	0.484	
218	8.88	34.071	2.82	2.05	32.	0.00	24.5	160.7	250	8.28	34.067	2.70	26.520	152.3	0.566	
283	7.77	34.057	2.48	2.30	44.	0.00	27.4	145.7	300	7.56	34.071	2.28	26.629	141.9	0.642	
384	6.81	34.164	1.25	2.89	59.	0.00	33.0	124.9	400	6.70	34.184	1.11	26.839	122.0	0.779	
484	6.17	34.271	0.56	3.17	71.	0.00	39.5	108.9	500	6.06	34.281	0.54	26.998	106.9	0.900	
619	5.35	34.329	0.36	3.35	89.	0.00	41.6	94.9	600	5.46	34.324	0.39	27.108	96.5	1.009	
773	4.76	34.408	0.42	3.38	99.	0.00	39.7	82.5	700	5.01	34.372	0.39	27.198	88.0	1.109	
919	4.26	34.464	0.57	3.36	113.	0.00	39.9	73.1	800	4.66	34.420	0.44	27.276	80.6	1.201	
1128	3.66	34.513	0.79	3.36	131.	0.00	40.8	63.5	1000	4.01	34.488	0.66	27.400	68.8	1.368	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						100070
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
30 21.0N	119 27.0W	3/26/72	1126 6MT		3854M	330	20KT		330							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	14.21	33.44						300.6	0	14.21	33.44		24.960	300.6	0.000	
11	14.22	33.44						300.8	10	14.22	33.44		24.958	300.8	0.030	
31	14.21	33.43						301.3	20	14.22	33.44		24.955	301.0	0.060	
56	12.38	33.41						267.8	30	14.21	33.43		24.953	301.3	0.090	
71	11.90	33.44						256.9	50	12.85	33.41		25.211	276.7	0.148	
86	11.12	33.47						241.1	75	11.71	33.44		25.455	253.5	0.215	
100	10.25	33.60						217.0	100	10.25	33.60		25.839	217.0	0.274	
131	9.44	33.80						189.3	125	9.52	33.77		26.093	192.8	0.326	
156	9.13	33.92						175.7	150	9.20	33.90		26.245	178.4	0.373	
180	8.73	33.97						165.9	200	8.66	34.05		26.450	158.9	0.459	
215	8.63	34.11						154.1	250	8.18	34.16		26.606	144.1	0.537	
279	7.69	34.16						136.9	300	7.29	34.15		26.728	132.6	0.608	
380	6.01	34.11						119.0	400	5.99	34.15		26.901	116.1	0.738	
481	5.89	34.27						105.6	500	5.82	34.29		27.037	103.2	0.853	
616	5.30	34.38						90.5	600	5.38	34.37		27.154	92.1	0.958	
768	4.67	34.43						79.9	700	4.94	34.41		27.239	84.1	1.053	
915	4.20	34.47						72.0	800	4.56	34.44		27.303	78.0	1.142	
1120	3.63	34.52						62.7	1000	3.95	34.49		27.409	67.9	1.306	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						100080
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
30 01.0N	120 06.0W	3/26/72	1720 6MT		3680M	340	16KT		340							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	13.92	33.409	6.16	0.41	2.	0.00	0.0	297.1	0	13.92	33.409	6.16	24.997	297.1	0.000	
10	13.90	33.407	5.42U	0.35	2.	0.00	0.0	296.9	10	13.90	33.407	6.04	24.999	296.9	0.030	
30	13.89	33.406	5.93	0.38	5.	0.00	0.0	296.7	20	13.90	33.408	5.96	25.000	296.8	0.059	
55	13.63	33.382	6.06	0.36	4.	0.00	0.0	293.4	30	13.89	33.406	5.93	25.000	296.7	0.089	
70	12.14	33.352	5.65	0.58	6.	0.15	2.6	267.7	50	13.68	33.389	6.03	25.028	294.1	0.148	
85	11.47	33.439	5.21	0.86	7.	0.25	6.8	249.4	75	11.86	33.383	5.52	25.380	260.6	0.218	
100	10.93	33.421	4.51	0.98	8.	0.01	8.5	241.5	100	10.93	33.421	4.51	25.581	241.5	0.281	
130	10.05	33.660	4.23	1.44	16.	0.00	16.8	209.3	125	10.18	33.612	4.26	25.859	215.1	0.339	
156	9.49	33.806	3.26	1.77	22.	0.00	19.8	189.7	150	9.61	33.776	3.47	26.083	193.8	0.391	
181	9.04	33.962	3.26	1.93	29.	0.00	22.9	171.2	200	8.71	34.003	3.24	26.404	163.3	0.482	
216	8.44	34.011	3.23	2.04	33.	0.00	24.4	158.6	250	7.93	34.049	2.81	26.558	148.7	0.562	
281	7.50	34.073	2.31	2.45	46.	0.00	29.6	140.8	300	7.20	34.082	2.08	26.689	136.2	0.635	
382	6.12	34.123	1.29	2.93	68.	0.00	33.5	119.3	400	6.00	34.144	1.16	26.899	116.3	0.767	
482	5.62	34.237	0.73	3.17	80.	0.00	35.7	104.9	500	5.54	34.253	0.72	27.041	102.8	0.882	
616	5.08	34.333	0.62	3.34	94.	0.00	37.0	91.6	600	5.14	34.325	0.63	27.146	92.9	0.986	
770	4.58	34.415	0.61	3.36	122.U	0.00	38.2	80.0	700	4.80	34.382	0.61	27.230	84.9	1.082	
917	4.11	34.471	0.79	3.41	129.U	0.00	38.6	71.0	800	4.48	34.429	0.64	27.302	78.1	1.172	
1129	3.50	34.523	1.04	3.33	144.	0.00		61.3	1000	3.86	34.496	0.89	27.421	66.8	1.333	

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										100090
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
29 41.0N		120 46.0W		3/26/72		2329 GMT			3964M	340	14KT	0	340	5	6	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	14.78	33.487						308.6	0	14.78	33.487		24.875	308.6	0.000	
10	14.79	33.480						309.4	10	14.79	33.480		24.868	309.4	0.031	
30	14.65	33.468						307.4	20	14.74	33.482		24.878	308.4	0.062	
55	14.25	33.451						300.6	30	14.65	33.468		24.888	307.4	0.093	
70	13.87	33.441						293.8	50	14.35	33.456		24.941	302.3	0.154	
85	13.32	33.445						282.8	75	13.73	33.450		25.066	290.5	0.228	
100	12.22	33.345						269.7	100	12.22	33.345		25.285	269.7	0.299	
130	11.08	33.422						244.0	125	11.22	33.395		25.507	248.5	0.364	
155	10.18	33.595						216.2	150	10.35	33.556		25.787	221.9	0.424	
181	9.57	33.830						189.1	200	9.16	33.943		26.285	174.5	0.525	
215	8.88	34.007						165.4	250	8.44	34.108		26.527	151.6	0.608	
280	8.18	34.156						144.1	300	8.01	34.186		26.654	139.5	0.684	
381	7.37	34.261						125.1	400	7.20	34.275		26.840	121.9	0.820	
481	6.50	34.313						109.8	500	6.34	34.319		26.992	107.4	0.941	
618	5.44	34.347						94.6	600	5.56	34.344		27.110	96.3	1.051	
772	4.71	34.422						80.9	700	5.01	34.387		27.210	86.8	1.150	
922	4.20	34.475						71.6	800	4.60	34.434		27.293	78.9	1.241	
1132	3.62	34.517						62.8	1000	3.97	34.496		27.411	67.8	1.405	

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										103030
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
31 06.0N		116 24.5W		3/25/72		0503 GMT			75M	340	2KT	0	340	3	5	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
0	13.59	33.483	6.16	0.49	4.	0.06	0.0	285.2	0	13.59	33.483	6.16	25.121	285.2	0.000	
10	12.63	33.502	6.01	0.63	6.	0.12	2.4	265.6	10	12.63	33.502	6.01	25.327	265.6	0.028	
21	12.36	33.520	5.61	0.74	7.	0.16	3.5	259.3	20	12.39	33.520	5.66	25.387	260.0	0.054	
31	11.28	33.551	4.78	1.09	10.	0.30	10.1	237.9	30	11.39	33.548	4.87	25.595	240.2	0.079	
42	10.87	33.640	3.95	1.43	16.	0.28	14.8	224.3								

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										103035
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
30 56.0N		116 45.5W		3/25/72		0124 GMT			1896M	290	5KT	0	280	3	5	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	14.54	33.520	0.38	5.	0.00	0.0	0.0	301.3	0	14.54	33.520		24.952	301.3	0.000	
11	13.43	33.515	0.41	5.	0.00	0.0	0.0	279.8	10	13.54	33.517		25.157	281.9	0.029	
31	11.53	33.551	0.98	11.	0.29	8.4	242.2	20	12.49	33.524		25.371	261.5	0.056		
56	10.58	33.673	1.37	16.	0.04	15.8	217.0	30	11.61	33.550		25.557	243.8	0.082		
71	10.39	33.747	1.55	18.	0.01	17.8	208.4	50	10.70	33.643		25.793	221.3	0.128		
86	10.19	33.852	1.71	21.	0.01	19.6	197.4	75	10.34	33.776		25.959	205.6	0.182		
101	9.94	33.941	1.85	24.	0.01	19.9	186.8	100	9.96	33.937		26.150	187.4	0.232		
131	9.58	34.033	1.91	26.	0.00	22.4	175.7	125	9.63	34.005		26.257	177.2	0.278		
156	9.51	34.086	2.11	29.	0.00	24.3	169.2	150	9.54	34.073		26.325	170.7	0.322		
181	8.96	34.078	2.06U	32.	0.00	25.4	161.4	200	8.76	34.130		26.496	154.5	0.405		
216	8.66	34.184	2.40	38.	0.00	29.0	149.0	250	8.49	34.261		26.640	140.9	0.481		
281	8.36	34.307	2.75	47.	0.00	29.9	135.5	300	8.25	34.319		26.722	133.1	0.552		
382	7.66	34.327	2.94	58.	0.00	31.9	124.1	400	7.48	34.332		26.846	121.3	0.685		
483	6.65	34.353	3.16	69.	0.00	35.6	108.8	500	6.52	34.357		26.999	106.8	0.806		
619	5.76	34.381	3.28	85.	0.01	39.9	95.7	600	5.86	34.378		27.100	97.2	0.916		
773	5.02	34.432	3.35	99.	0.00	41.0	83.5	700	5.35	34.408		27.187	89.0	1.017		
921	4.40	34.469	3.36	112.	0.00	43.2	74.1	800	4.90	34.440		27.265	81.6	1.111		
1129	3.78	34.512	3.33	122.	0.00	42.2	64.7	1000	4.13	34.488		27.387	70.0	1.281		

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203										103040
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
30 47.5N		117 05.0W		3/24/72		2137 GMT			1725M	280	4KT	1	280	3	5	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
0	14.49	33.510						301.1	0	14.49	33.510		24.955	301.1	0.000	
10	13.61	33.505						284.0	10	13.61	33.505		25.134	284.0	0.029	
31	13.30	33.505						278.0	20	13.41	33.506		25.175	280.1	0.058	
56	11.37	33.547						239.7	30	13.30	33.507		25.196	278.1	0.085	
71	10.96	33.597						229.0	50	11.84	33.531		25.499	249.3	0.138	
87	10.61	33.674						217.4	75	10.87	33.613		25.740	226.4	0.198	
102	10.32	33.816						202.2	100	10.36	33.798		25.973	204.2	0.253	
132	9.66	33.968						180.3	125	9.78	33.940		26.181	184.4	0.302	
158	9.70	34.117						169.9	150	9.69	34.082		26.308	172.3	0.347	
183	9.78	34.188						165.9	200	9.61	34.218		26.427	161.1	0.432	
218	9.34	34.236						155.5	250	8.90	34.246		26.563	148.2	0.512	
285	8.44	34.243						141.4	300	8.25	34.251		26.668	138.2	0.586	
387	7.39	34.291						123.1	400	7.31	34.294		26.840	121.9	0.722	
444P	7.09	34.297						118.6	500	6.71	34.313		26.938	112.6	0.846	
655P	5.64	34.375						94.8	600	6.02	34.350		27.058	101.2	0.960	
846P	4.69	34.446						78.9	700	5.39	34.393		27.170	90.6	1.065	
1111P	3.74	34.511						64.4	800	4.89	34.431		27.258	82.3	1.160	
									1000	4.09	34.490		27.394	69.4	1.330	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						103050	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
30 26.0N		117 45.5W		3/24/72		1513 GMT			2800M	330	12KT	1	330 6 11				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
2	14.71	33.502						306.1	0	14.71	33.502		24.902	306.1	0.000		
12	14.71	33.501						306.2	10	14.71	33.503		24.901	306.2	0.031		
31	14.72	33.499						306.5	20	14.71	33.502		24.899	306.3	0.061		
56	14.26	33.466						299.7	30	14.72	33.501		24.897	306.5	0.092		
71	13.64	33.415						291.2	50	14.43	33.480		24.944	302.1	0.153		
86	13.23	33.389						285.2	75	13.53	33.408		25.073	289.8	0.227		
101	12.57	33.389						272.8	100	12.62	33.390		25.241	273.8	0.298		
131	10.96	33.489						237.0	125	11.27	33.458		25.546	244.8	0.364		
156	10.10	33.709						206.5	150	10.27	33.653		25.875	213.5	0.422		
180	9.62	33.905						184.3	200	8.93	33.968		26.343	169.1	0.519		
215	8.39	33.985						159.8	250	7.73	34.015		26.561	148.4	0.601		
280	7.42	34.028						143.1	300	7.27	34.066		26.668	138.3	0.675		
380	6.91	34.225						121.6	400	6.82	34.253		26.876	118.5	0.808		
479	6.46	34.326						108.4	500	6.34	34.337		27.006	106.1	0.927		
612	5.69	34.369						95.8	600	5.76	34.368		27.105	96.0	1.036		
765	5.01	34.428						83.7	700	5.28	34.404		27.192	88.5	1.137		
912	4.41	34.467						74.4	800	4.86	34.439		27.268	81.3	1.230		
1121	3.73	34.515						64.0	1000	4.10	34.489		27.392	69.6	1.399		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						103040	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
30 08.0N		118 24.5W		3/24/72		0950 GMT			2790M	330	19KT						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
2	14.56	33.448	6.05	0.30	1.	0.00	0.0	307.0	0	14.56	33.448	6.05	24.892	307.0	0.000		
11	14.55	33.443	6.08	0.29	2.	0.00	0.0	307.2	10	14.55	33.445	6.08	24.891	307.2	0.031		
31	14.52	33.444	5.83	0.30	1.	0.00	0.0	307.2	20	14.54	33.441	5.98	24.890	307.2	0.061		
56	13.40	33.340	5.93	0.32	1.	0.00	0.0	292.1	30	14.52	33.436	5.84	24.890	307.2	0.092		
71	12.63	33.315	5.96	0.43	2.	0.10	0.9	279.4	50	13.73	33.365	5.89	25.000	296.8	0.153		
86	12.11	33.302	5.86	0.52	4.	0.05	2.9	270.9	75	12.47	33.310	5.94	25.207	277.1	0.225		
101	11.68	33.360	5.70	0.65	4.	0.01	5.0	258.9	100	11.71	33.357	5.71	25.388	259.9	0.293		
130	10.41	33.577	5.18	1.23	14.	0.00	17.0	221.3	125	10.62	33.536	5.31	25.724	228.0	0.354		
155	10.00	33.769	4.10	1.41	17.	0.00	17.1	200.5	150	10.06	33.733	4.32	25.973	204.3	0.409		
180	9.39	33.944	3.52	1.72	24.	0.00	21.4	177.9	200	8.97	33.997	3.34	26.358	167.7	0.504		
215	8.70	34.011	3.25	1.86	31.	0.00	24.8	162.5	250	8.24	34.076	2.75	26.533	151.0	0.585		
279	7.94	34.120	2.30	2.36	44.	0.00	28.8	143.4	300	7.70	34.143	2.03	26.666	138.4	0.660		
379	6.91	34.202	1.21	2.86	61.	0.00	34.6	123.4	400	6.75	34.218	1.07	26.858	120.2	0.795		
479	6.25	34.268	0.71	3.10	73.	0.00	35.2	110.1	500	6.13	34.281	0.68	26.990	107.7	0.915		
613	5.51	34.340	0.53	3.21		0.00	37.1	95.9	600	5.58	34.334	0.55	27.101	97.2	1.025		
767	4.74	34.420	0.59	3.31		0.00	39.8	81.4	700	5.05	34.388	0.56	27.206	87.2	1.125		
914	4.23	34.459	0.70	3.28		0.00	39.8U	73.3	800	4.62	34.431	0.61	27.289	79.3	1.216		
1127	3.65	34.518	0.96	3.26		0.00	39.8U	63.0	1000	3.99	34.484	0.79	27.398	69.0	1.382		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						103070	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
29 46.0N		119 05.5W		3/24/72		0404 GMT			3565M	350	21KT						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.42	33.651						309.9	0	15.42	33.651		24.861	309.9	0.000		
10	15.46	33.650						310.9	10	15.46	33.650		24.852	310.9	0.031		
31	15.47	33.649						311.1	20	15.46	33.651		24.851	311.0	0.062		
56	13.42	33.362						290.8	30	15.47	33.651		24.849	311.1	0.093		
71	13.08	33.373						283.5	50	13.93	33.425		25.005	296.3	0.154		
86	12.11	33.420						262.2	75	12.83	33.386		25.198	278.0	0.226		
101	11.69	33.454						252.2	100	11.71	33.453		25.462	252.8	0.293		
131	10.56	33.769						209.6	125	10.78	33.697		25.821	218.6	0.353		
156	10.06	33.964						187.0	150	10.16	33.927		26.107	191.4	0.405		
182	9.60	34.047						173.5	200	9.36	34.103		26.378	165.8	0.496		
217	9.17	34.147						159.4	250	8.77	34.195		26.545	149.8	0.577		
283	8.39	34.221						142.3	300	8.23	34.239		26.662	138.8	0.652		
383	7.51	34.295						124.4	400	7.34	34.299		26.841	121.8	0.788		
483	6.52	34.310						110.3	500	6.37	34.318		26.987	108.0	0.910		
617	5.52	34.375						93.4	600	5.63	34.367		27.120	95.3	1.019		
769	4.77	34.434						80.6	700	5.07	34.411		27.222	85.7	1.117		
917	4.28	34.467						73.1	800	4.65	34.443		27.295	78.8	1.207		
1126	3.72	34.511						64.2	1000	4.04	34.486		27.395	69.3	1.373		

RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7203										105080		
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
29 27.0N	119 44.0W	3/23/72	2241	GMT	3794M	350	20KT	1	340 5 6						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	15.54	33.67	A					311.1	0	15.54	33.67		24.849	311.1	0.000
11	15.55	33.67						311.3	10	15.55	33.67		24.847	311.3	0.031
32	15.54	33.67						311.1	20	15.55	33.67		24.848	311.2	0.062
57	15.50	33.67						310.2	30	15.54	33.67		24.849	311.1	0.093
72	14.65	33.61						297.0	50	15.51	33.67		24.856	310.5	0.156
87	12.98	33.55						270.1	75	14.35	33.59		25.050	292.0	0.232
102	11.76	33.53						247.8	100	11.90	33.53		25.485	250.6	0.300
132	10.49	33.75						211.3	125	10.69	33.67		25.818	219.0	0.359
157	9.85	33.91						187.6	150	9.99	33.86		26.087	193.4	0.412
182	9.54	34.01						175.3	200	9.34	34.10		26.381	165.5	0.503
217	9.15	34.18						156.7	250	8.76	34.25		26.587	145.9	0.583
283	8.37	34.27						138.4	300	8.15	34.28		26.706	134.6	0.656
383	7.18	34.30						119.6	400	7.06	34.31		26.888	117.3	0.787
484	6.56	34.35						107.8	500	6.46	34.36		27.008	105.9	0.906
619	5.70	34.41						92.9	600	5.82	34.40		27.125	94.8	1.014
772	4.82	34.44						80.7	700	5.20	34.43		27.220	85.9	1.112
919	4.33	34.48						72.6	800	4.71	34.45		27.292	79.0	1.203
1131	3.65	34.52						62.9	1000	4.07	34.50		27.402	68.6	1.368

RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7203										107032		
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
30 26.0N	116 11.0W	3/22/72	0903	GMT	362M	330	14KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	14.07	33.484						294.6	0	14.07	33.484		25.023	294.6	0.000
10	14.08	33.480						295.1	10	14.08	33.480		25.018	295.1	0.029
31	13.28	33.404						285.1	20	13.86	33.460		25.048	292.2	0.059
41	12.36	33.392						268.8	30	13.35	33.411		25.113	286.0	0.088
57	11.29	33.500						241.8	50	11.70	33.441		25.455	253.5	0.142
71	10.75	33.655						221.2	75	10.68	33.675		25.821	218.7	0.201
86	10.53	33.713						213.2	100	10.09	33.822		26.038	198.0	0.254
106	9.91	33.876						191.1	125	9.92	34.064		26.255	177.4	0.301
131	9.92	34.106						174.2	150	9.79	34.186		26.371	166.4	0.345
157	9.72	34.193						164.6							

RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7203										107035		
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
30 22.0N	116 22.5W	3/22/72	1102	GMT	1756M	320	16KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
0	14.45	33.478						302.6	0	14.45	33.478		24.939	302.6	0.000
10	14.45	33.476						302.8	10	14.45	33.476		24.937	302.8	0.030
30	13.86	33.445						293.3	20	14.24	33.466		24.973	299.3	0.060
56	12.34	33.383						269.1	30	13.86	33.445		25.037	293.3	0.090
71	11.20	33.481						241.7	50	12.75	33.387		25.212	276.6	0.147
86	10.93	33.621						226.7	75	11.13	33.531		25.630	236.9	0.212
101	11.01	33.783						216.1	100	11.00	33.774		25.841	216.8	0.269
131	10.34	33.922						194.7	125	10.53	33.909		26.028	198.9	0.322
157	9.43	33.972						176.4	150	9.68	33.961		26.215	181.2	0.370
182	8.82	34.048						161.5	200	8.64	34.082		26.476	156.4	0.456
217	8.57	34.107						153.4	250	8.42	34.188		26.593	145.3	0.533
283	8.29	34.264						137.7	300	8.18	34.285		26.706	134.6	0.606
384	7.55	34.331						122.3	400	7.42	34.335		26.857	120.2	0.739
485	6.71	34.341						110.4	500	6.60	34.345		26.979	108.7	0.861
620	5.78	34.375						96.4	600	5.90	34.370		27.088	98.3	0.972
774	5.00	34.420						84.2	700	5.35	34.398		27.179	89.8	1.074
921	4.38	34.475						73.5	800	4.88	34.431		27.260	82.1	1.169
1131	3.81	34.513						64.9	1000	4.12	34.496		27.395	69.3	1.338

RV ALEXANDER AGASSIZ			CALCOFI CRUISE 7203										107040		
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
30 11.5N	116 43.0W	3/22/72	1411	GMT	2734M	330	14KT	2	330 1 6						
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	14.79	33.498						308.0	0	14.79	33.498		24.882	308.0	0.000
11	14.78	33.497						307.9	10	14.78	33.499		24.883	307.9	0.031
31	14.75	33.493						307.6	20	14.77	33.497		24.884	307.8	0.062
55	13.60	33.424						289.8	30	14.75	33.495		24.886	307.6	0.092
70	12.88	33.397						278.0	50	13.89	33.441		25.026	294.3	0.153
85	11.75	33.459						254.3	75	12.49	33.403		25.275	270.6	0.224
99	11.21	33.566						235.6	100	11.17	33.577		25.657	234.3	0.287
129	10.27	33.807						202.0	125	10.38	33.782		25.957	205.8	0.343
154	9.63	33.892						185.5	150	9.72	33.883		26.148	187.6	0.393
179	9.32	33.993						173.2	200	9.00	34.042		26.388	164.8	0.483
214	8.79	34.062						160.0	250	8.35	34.111		26.544	150.0	0.564
280	8.04	34.143						143.1	300	7.85	34.173		26.668	138.3	0.638
379	7.20	34.271						122.0	400	7.06	34.286		26.869	119.1	0.772
479	6.59	34.322						110.3	500	6.43	34.332		26.988	107.8	0.893
616	5.71	34.377						95.5	600	5.81	34.372		27.102	97.0	1.002
769	5.01	34.421						84.2	700	5.30	34.404		27.189	88.8	1.103
915	4.48	34.457						75.9	800	4.89	34.430		27.257	82.3	1.198
1121	3.79	34.509						65.1	1000	4.19	34.479		27.374	71.3	1.369

A) ALL SALINITY VALUES FOR THIS CAST WERE DETERMINED ASHORE BY INDUCTIVE SALINOMETER 23 JUNE, THREE MONTHS AFTER COMPLETION OF THE CRUISE.

RV ALEXANDER AGASSIZ							CALCOFI CRUISE 7203							107050	
LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 50.5N		117 21.5W		3/22/72		2004 GMT			2578M	340	12KT	2	320 2 8		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
0	15.18	33.517						314.7	0	15.18	33.517		24.812	314.7	0.000
10	15.18	33.516						314.8	10	15.18	33.516		24.811	314.8	0.031
30	14.96	33.524						309.6	20	15.07	33.516		24.835	312.5	0.063
55	15.66	33.433						290.3	30	14.96	33.524		24.865	309.6	0.094
70	12.73	33.404						274.7	50	13.99	33.457		25.017	295.2	0.155
85	11.86	33.416						258.0	75	12.42	33.404		25.290	269.2	0.226
100	11.21	33.484						241.6	100	11.21	33.484		25.580	241.6	0.290
130	10.11	33.696						207.6	125	10.27	33.662		25.883	212.8	0.347
155	9.57	33.811						190.5	150	9.66	33.793		26.088	193.3	0.399
180	9.23	33.898						178.8	200	8.84	33.959		26.350	168.4	0.491
216	8.51	33.997						160.7	250	8.01	34.031		26.532	151.2	0.573
281	7.65	34.042						145.2	300	7.42	34.064		26.644	140.5	0.648
382	6.71	34.178						122.6	400	6.68	34.213		26.864	119.6	0.784
482	6.61	34.349						108.5	500	6.51	34.360		27.002	106.5	0.903
618	5.72	34.382						95.2	600	5.86	34.385		27.106	96.7	1.012
772	4.99	34.418						84.2	700	5.31	34.401		27.187	89.0	1.113
919	4.40	34.461						74.7	800	4.87	34.427		27.258	82.3	1.207
1128	3.76	34.511						64.6	1000	4.12	34.483		27.384	70.3	1.378

RV ALEXANDER AGASSIZ							CALCOFI CRUISE 7203							107060	
LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 31.0N		118 02.0W		3/23/72		0125 GMT			3632M	340	18KT	2	320 4 4		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
0	15.48	33.594	5.78	0.28	2.	0.00	0.0	315.4	0	15.48	33.594	5.78	24.805	315.4	0.000
10	15.48	33.592	5.94	0.28	2.	0.00	0.0	315.5	10	15.48	33.592	5.94	24.803	315.5	0.032
30	15.47	33.590	5.77	0.28	2.	0.00	0.0	315.5	20	15.48	33.593	5.88	24.803	315.5	0.063
55	14.60	33.521	5.89	0.30	2.	0.03	0.0	302.5	30	15.47	33.590	5.77	24.804	315.5	0.095
70	14.06	33.477	5.90	0.37	1.	0.01	0.0	294.9	50	14.81	33.539	5.86	24.907	305.6	0.157
85	13.05	33.420	5.75	0.52	1.	0.04	2.3	279.5	75	13.78	33.452	5.85	25.057	291.3	0.232
100	11.54	33.529	4.76	0.99	3.	0.02	9.6	244.0	100	11.54	33.529	4.76	25.554	244.0	0.300
130	10.66	33.919	2.46	2.06	25.	0.00	21.0	200.2	125	10.81	33.889	2.79	25.965	205.0	0.356
155	10.54	34.007	2.14	2.18	28.	0.01	23.1	191.7	150	10.56	34.006	2.20	26.099	192.2	0.407
180	10.40	34.052	2.06	2.27	30.	0.00	23.6	186.0	200	10.18	34.103	2.04	26.242	178.6	0.501
214	10.00	34.141	2.02	2.31	32.	0.00	24.3	172.9	250	9.66	34.238	1.74	26.435	160.3	0.588
279	9.43	34.305	1.47	2.51	39.	0.00	27.2	151.8	300	9.38	34.342	1.32	26.562	148.3	0.668
378	8.95	34.392	0.91	2.82	46.	0.00	29.4	137.9	400	8.47	34.366	0.87	26.725	132.8	0.816
476	6.76	34.286	0.81	3.01	65.	0.00	35.4	115.2	500	6.53	34.294	0.75	26.948	111.7	0.945
609	5.97	34.357	0.52	3.21	79.	0.02	37.6	100.0	600	5.99	34.351	0.54	27.063	100.7	1.059
762	4.88	34.398	0.51	3.28	101.	0.00	39.1	84.5	700	5.30	34.383	0.51	27.173	90.3	1.163
911	4.42	34.451	0.73	3.33	108.	0.00	40.8	75.7	800	4.73	34.413	0.56	27.262	81.9	1.257
1123	3.82	34.500	0.74	3.28	121.	0.00	39.7	66.0	1000	4.16	34.476	0.73	27.375	71.2	1.428

RV ALEXANDER AGASSIZ							CALCOFI CRUISE 7203							107070	
LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 11.5N		118 41.5W		3/23/72		0632 GMT			3737M	340	18KT				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
0	15.98	33.711						317.5	0	15.98	33.711		24.782	317.5	0.000
10	15.98	33.714						317.3	10	15.98	33.714		24.785	317.3	0.032
30	15.93	33.703						317.0	20	15.96	33.710		24.786	317.1	0.064
54	15.20	33.637						306.4	30	15.93	33.703		24.787	317.0	0.095
69	14.27	33.522						295.8	50	15.38	33.657		24.874	308.8	0.158
84	13.21	33.456						279.9	75	13.85	33.488		25.071	290.0	0.233
98	12.32	33.489						260.9	100	12.21	33.500		25.405	258.2	0.302
129	10.87	33.668						222.2	125	11.02	33.642		25.755	226.9	0.364
153	10.09	33.818						198.3	150	10.17	33.801		26.007	201.0	0.418
178	9.50	33.938						180.0	200	9.27	34.045		26.348	168.6	0.512
212	9.20	34.097						163.6	250	9.04	34.236		26.534	151.0	0.594
276	8.88	34.284						144.9	300	8.55	34.280		26.646	140.3	0.670
374	7.74	34.278						128.8	400	7.50	34.292		26.811	124.6	0.808
472	6.91	34.334						113.5	500	6.67	34.344		26.968	109.8	0.932
605	5.86	34.370						97.8	600	5.90	34.370		27.089	98.3	1.044
757	5.08	34.418						85.2	700	5.34	34.402		27.183	89.4	1.146
904	4.36	34.442						75.7	800	4.86	34.426		27.258	82.2	1.240
1115	3.74	34.503						65.0	1000	4.02	34.467		27.383	70.5	1.411

RV ALEXANDER AGASSIZ							CALCOFI CRUISE 7203							107080	
LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 52.0N		119 20.5W		3/23/72		1524 GMT			3622M	340	24KT	1	340 6 4		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
0	15.80	33.700						314.4	0	15.80	33.700		24.814	314.4	0.000
10	15.80	33.704						314.1	10	15.80	33.704		24.818	314.1	0.031
30	15.81	33.705						314.3	20	15.81	33.706		24.817	314.2	0.063
56	15.79	33.702						314.1	30	15.81	33.705		24.816	314.3	0.094
71	15.53	33.680						310.1	50	15.79	33.704		24.818	314.1	0.157
86	14.69	33.604						298.2	75	15.41	33.669		24.876	308.6	0.236
101	12.23	33.457						261.6	100	12.40	33.465		25.341	264.3	0.308
132	10.43	33.700						212.6	125	10.58	33.624		25.798	220.8	0.369
157	9.99	33.863						193.3	150	10.07	33.824		26.042	197.6	0.422
182	9.52	33.981						177.2	200	9.28	34.042		26.344	169.0	0.516
218	9.08	34.088						162.4	250	8.74	34.155		26.518	152.4	0.598
283	8.41	34.203						143.9	300	8.23	34.223		26.650	139.9	0.674
383	7.42	34.287						123.8	400	7.27	34.296		26.847	121.2	0.810
484	6.60	34.326						110.1	500	6.48	34.334		26.986	108.0	0.932
618	5.66	34.383						94.4	600	5.77	34.376		27.110	96.3	1.041
771	4.93	34.424						83.1	700	5.24	34.408		27.200	87.8	1.141
918	4.34	34.463						74.0	800	4.80	34.433		27.270	81.2	1.234
1126	3.74	34.506						64.8	1000	4.07	34.483		27.389	69.8	1.403

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						110035			
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 46.5N		116 00.0W		3/22/72		0100 GMT			1114M	310	16KT	1	320	3	8
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	14.43	33.461	6.09	0.18	0.	0.00	0.0	303.4	0	14.43	33.461	6.09	24.930	303.4	0.000
11	14.43	33.455	6.07	0.23	0.	0.01	0.0	303.9	10	14.43	33.457	6.07	24.926	303.8	0.030
31	13.73	33.408	5.96	0.24	0.	0.01	0.0	293.5	20	14.17	33.437	5.99	24.965	300.1	0.061
41	13.40	33.390	6.10	0.29	1.	0.05	0.0	288.4	30	13.78	33.413	5.96	25.028	294.2	0.090
51	12.86	33.369	5.88	0.40	2.	0.06	1.9	278.2	50	12.92	33.390	5.91	25.183	279.4	0.148
66	12.13	33.411	5.50	0.61	4.	0.11	5.3	263.2	75	11.63	33.411	5.19	25.445	254.4	0.215
81	11.32	33.427	4.95	0.87	7.	0.04	9.2	247.7	100	10.74	33.724	3.91	25.849	216.0	0.274
101	10.72	33.741	3.85	1.45	17.	0.03	19.8	214.3	125	10.38	33.945	2.99	26.084	193.7	0.326
126	10.37	33.949	2.97	1.83	23.	0.02	21.7	193.2	150	10.12	34.094	2.56	26.244	178.5	0.373
145	10.16	34.066	2.66	1.99	27.	0.03	22.6	181.1	200	9.92	34.312	1.53	26.447	159.2	0.460
175	10.00	34.210	2.02	2.30	32.	0.00	23.0	167.8	250	9.62	34.398	1.06	26.567	147.8	0.539
205	9.91	34.327	1.45	2.51	37.	0.01	28.0	157.7	300	9.06	34.408	0.82	26.665	138.5	0.613
234	9.76	34.378	1.22	2.63	39.	0.02	27.8	151.6	400	7.97	34.371	0.54	26.805	125.2	0.751
274	9.36	34.414	0.86	2.72	43.	0.00	29.5	142.6	500	6.92	34.346		26.936	112.8	0.878
333	8.68	34.388	0.77	2.85	49.	0.02	29.7	134.2							
407	7.90	34.369	0.52	2.99	58.	0.01	32.9	124.3							
479	7.10	34.346	0.48	3.10	66.	0.02	34.8	115.1							
559	6.55	34.357	0.70U	3.16	72.	0.02	35.1	107.2							

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						110040			
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 36.5N		116 20.5W		3/21/72		2054 GMT			2397M	340	13KT	1	310	1	6
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	15.48	33.644	5.97		1.	0.01	0.0	311.7	0	15.48	33.644	5.97	24.843	311.7	0.000
11	15.23	33.638	5.98		0.	0.00	0.0	306.9	10	15.25	33.640	5.98	24.890	307.3	0.031
31	15.12	33.630	5.97		1.	0.00	0.0	305.2	20	15.18	33.637	5.98	24.903	306.0	0.062
56	14.33	33.598	5.84		1.	0.09	0.0	291.4	30	15.12	33.632	5.97	24.911	305.3	0.092
71	13.33	33.498	5.55		3.	0.21	1.8	279.1	50	14.60	33.616	5.87	25.011	295.7	0.153
86	12.28	33.524	4.76		7.	0.05	8.9	257.6	75	13.04	33.496	5.37	25.240	273.9	0.224
101	11.45	33.642	3.92		13.	0.03	13.9	234.1	100	11.50	33.635	3.97	25.643	235.6	0.288
131	10.95	33.859	2.99		0.	0.02	19.7	209.5	125	10.98	33.820	3.13	25.881	213.0	0.345
156	10.66	34.015	2.41		25.	0.01	22.5	193.1	150	10.73	33.982	2.53	26.052	196.7	0.397
181	10.32	34.116	2.12		29.	0.01	22.7	180.0	200	9.98	34.230	1.99	26.375	166.0	0.490
217	9.69		1.88		33.	0.01	26.8		250	9.41	34.327	1.50	26.544	150.0	0.572
283	9.25	34.337	1.12		40.	0.01	29.1	146.6	300	9.10	34.346	1.02	26.611	143.6	0.649
381	8.21	34.347	0.76		51.	0.00	30.6	130.4	400	7.95	34.348	0.69	26.790	126.6	0.791
483	6.85	34.353	0.44		67.	0.00	35.1	111.3	500	6.70	34.356	0.43	26.974	109.2	0.916
617	5.89	34.377	0.33		82.	0.03	37.4	97.6	600	5.98	34.374	0.34	27.082	98.9	1.028
770	5.04	34.426	0.37		94.	0.00	39.7	84.2	700	5.40	34.403	0.35	27.177	90.0	1.130
917	4.40	34.469	0.54		95.U	0.00	39.7	74.1	800	4.90	34.436	0.40	27.262	81.9	1.225
1123	3.74	34.517	0.86		126.	0.00	41.0	64.0	1000	4.10	34.491	0.66	27.393	69.5	1.395

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						110050			
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
29 16.0N		116 59.0W		3/21/72		1421 GMT			3122M	330	12KT	2	330	3	8
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	15.05	33.642						302.9	0	15.05	33.642		24.936	302.9	0.000
11	14.87	33.607						301.7	10	14.88	33.611		24.947	301.8	0.030
31	14.78	33.602						300.2	20	14.82	33.602		24.952	301.3	0.060
57	14.26	33.588						290.7	30	14.78	33.603		24.962	300.3	0.091
72	13.83	33.556						284.6	50	14.44	33.596		25.031	293.8	0.150
87	12.43	33.493						262.6	75	13.57	33.537		25.164	281.1	0.222
102	11.38	33.645						232.7	100	11.50	33.621		25.632	236.7	0.288
132	10.44	33.90						197.9	125	10.54	33.846		25.979	203.6	0.343
157	10.58	34.113						184.5	150	10.53	34.059		26.147	187.7	0.393
182	10.13	34.236						168.0	200	9.91	34.304		26.443	159.5	0.482
218	9.73	34.355						152.8	250	9.37	34.409		26.616	143.1	0.560
283	9.01	34.436						135.6	300	8.84	34.446		26.729	132.4	0.631
383	8.06	34.46						119.8	400	7.88	34.462		26.890	117.2	0.762
483	7.04	34.467						105.3	500	6.90	34.470		27.036	103.3	0.880
620	6.05	34.496						90.6	600	6.18	34.492		27.150	92.5	0.986
771	5.06	34.538 A						76.0	700	5.49	34.518		27.257	82.4	1.082
919	4.48	34.571						67.3	800	4.93	34.545		27.345	74.0	1.169
1119	3.84	34.612						57.8	1000	4.20	34.590		27.460	63.1	1.325

A) AN ERROR OF 0.01 IN CONDUCTIVITY RATIO, -0.39 PPT, HAS BEEN ASSUMED FOR THIS VALUE.

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							110060
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
28 56.0N	117 39.5W	3/21/72	0837	GMT		3555M	240	4KT		O2	SIGT	DT	DD				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.29	33.525	5.64	0.26	0.	0.00	0.0	316.4	0	15.29	33.525	5.64	24.793	316.4	0.000		
10	14.98	33.521	6.21U	0.20	0.	0.00	0.0	310.3	10	14.98	33.521	5.71	24.858	310.3	0.031		
30	14.81	33.519	5.84	0.20	0.	0.00	0.0	306.9	20	14.88	33.521	5.77	24.879	308.3	0.062		
55	14.10	33.523	5.67	0.27	0.	0.01	0.0	292.3	30	14.81	33.519	5.84	24.893	306.9	0.093		
70	12.90	33.499	4.91	0.61	4.	0.03	4.7	270.9	50	14.33	33.527	5.70	25.000	296.7	0.154		
85	12.20	33.608	4.33	1.00	9.	0.00	10.9	250.0	75	12.62	33.532	4.71	25.350	263.5	0.224		
100	11.75	33.682	3.74	1.27	13.	0.00	14.1	236.4	100	11.75	33.682	3.74	25.634	236.4	0.287		
130	10.47	33.839	3.50	1.46	19.	0.00	19.2	202.9	125	10.67	33.812	3.51	25.931	208.3	0.343		
156	10.19	33.996	2.89	1.78	24.	0.00	22.5	186.7	150	10.22	33.965	3.02	26.126	189.7	0.394		
181	9.84	34.061	2.78	1.90	27.	0.00	24.3	176.3	200	9.70	34.128	2.38	26.342	169.1	0.485		
216	9.61		2.00	2.16	34.	0.00	27.1		250	9.32	34.267	1.57	26.512	153.0	0.568		
281	9.03	34.314	1.32	2.46	41.	0.00	29.4	144.9	300	8.84	34.329	1.18	26.639	140.9	0.644		
380	8.00	34.343	0.79	2.74	53.	0.00	30.7	127.7	400	7.80	34.345	0.73	26.810	124.7	0.763		
480	7.04	34.346	0.59	2.95	63.	0.00	34.6	114.3	500	6.88	34.349	0.56	26.943	112.1	0.909		
614	6.11	34.368	0.44	3.04	77.	0.00	37.5	100.9	600	6.19	34.366	0.45	27.048	102.1	1.024		
768	5.27	34.411	0.45	3.14	90.	0.00	38.9	87.8	700	5.62	34.391	0.45	27.140	93.4	1.130		
915	4.51	34.460	0.68	3.15	103.	0.00	38.0	75.9	800	5.10	34.422	0.49	27.228	85.1	1.229		
1126	3.74	34.511	0.89	3.15	118.	0.00	40.6	64.4	1000	4.15	34.485	0.78	27.382	70.5	1.403		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							110070
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
28 36.0N	118 18.5W	3/21/72	0249	GMT		3545M	200	10KT	2	O2	SIGT	DT	DD				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	15.52	33.559						318.8	0	15.52	33.559		24.769	318.8	0.000		
11	15.25	33.553						313.5	10	15.27	33.554		24.819	314.0	0.032		
31	15.22	33.605						309.1	20	15.23	33.581		24.848	311.2	0.063		
56	14.38	33.502						299.4	30	15.22	33.605		24.869	309.3	0.094		
71	13.58	33.426						289.2	50	14.65	33.538		24.941	302.4	0.155		
86	13.10	33.451						278.2	75	13.45	33.430		25.109	286.4	0.229		
101	12.42	33.466						264.4	100	12.47	33.466		25.329	265.5	0.299		
132	10.55	33.705						214.2	125	10.92	33.634		25.746	225.8	0.361		
157	10.29	33.974						190.0	150	10.36	33.919		26.066	195.4	0.414		
182	10.19	34.103						178.8	200	9.96	34.166		26.328	170.5	0.508		
217	9.70	34.205						163.4	250	9.30	34.230		26.488	153.3	0.592		
282	8.94	34.250						149.8	300	8.74	34.248		26.591	145.5	0.669		
383	7.86	34.323						127.0	400	7.69	34.330		26.814	124.4	0.810		
484	6.91	34.336						113.4	500	6.78	34.342		26.952	111.3	0.935		
620	5.90	34.387						97.0	600	6.03	34.379		27.080	99.2	1.048		
772	5.02	34.431						83.6	700	5.41	34.412		27.183	89.4	1.151		
923	4.39	34.471						73.9	800	4.89	34.440		27.265	81.6	1.245		
1132	3.70	34.512						64.0	1000	4.11	34.489		27.390	69.7	1.415		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							1100A0
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
28 15.5N	118 56.5W	3/20/72	2139	GMT		3779M	200	2KT	2	O2	SIGT	DT	DD				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.30	33.732	5.94	0.20	0.	0.00	0.0	322.9	0	16.30	33.732	5.94	24.726	322.9	0.000		
10	16.16	33.724	5.90	0.17	1.	0.00	0.0	320.4	10	16.16	33.724	5.90	24.751	320.4	0.032		
30	16.14	33.723	5.77	0.17	1.	0.00	0.0	320.1	20	16.13	33.725	5.83	24.753	320.2	0.064		
54	16.13	33.722	5.76	0.18	1.	0.02	0.0	319.9	30	16.14	33.723	5.77	24.755	320.1	0.096		
69	15.97	33.712	5.65	0.18	0.	0.00	0.0	317.2	50	16.13	33.724	5.76	24.756	319.9	0.161		
83	15.29	33.628		0.20	0.	0.00	0.0	308.9	75	15.70	33.680	5.69	24.821	313.8	0.240		
98	14.79	33.575	5.79	0.21	0.	0.00	0.0	302.4	100	14.69	33.570	5.75	24.958	300.8	0.318		
128	13.00	33.525	5.07	0.43	2.	0.05	3.2	270.9	125	13.20	33.526	5.15	25.232	274.7	0.390		
152	11.65	33.589	4.94	0.79	7.	0.00	8.6	241.5	150	11.76	33.582	4.96	25.553	244.1	0.456		
177	10.37	33.772	3.87	1.40	16.	0.00		206.2	200	9.64	33.920	3.46	26.190	183.6	0.565		
212	9.36	33.982	3.35	1.69	25.	0.00		174.6	250	8.67	34.088	2.92	26.477	156.3	0.652		
277	8.32	34.122	2.62	2.21	38.	0.00		148.7	300	8.06	34.165	2.19	26.630	141.8	0.729		
377	7.37	34.267	0.89	2.78	55.	0.00	32.1	124.6	400	7.17	34.285	0.80	26.852	120.7	0.866		
477	6.57	34.320	0.51	3.02	68.	0.00	36.1	110.2	500	6.40	34.329	0.46	26.992	107.4	0.987		
613	5.66	34.364	0.36	3.24	83.	0.00	38.2	95.8	600	5.74	34.361	0.36	27.102	97.0	1.097		
768	4.95	34.424	0.39	3.26	92.	0.00	40.4	83.3	700	5.23	34.399	0.38	27.193	88.4	1.197		
916	4.39	34.468	0.51	3.34	104.	0.00	41.2	74.1	800	4.82	34.435	0.41	27.270	81.1	1.290		
1132	3.76	34.520	0.84	3.29	116.	0.00	41.6	63.9	1000	4.12	34.491	0.62	27.391	69.7	1.459		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							113030
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
29 22.0N	115 18.0W	3/19/72	1242	GMT		60M	320	6KT		O2	SIGT	DT	DD				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0									0	13.38	33.69		25.323	266.0	0.000		
10									10	13.39	33.70		25.329	265.4	0.027		
20									20	13.33	33.71		25.349	263.5	0.053		
30									30	12.95	33.68		25.402	258.5	0.079		
50									50	11.61	33.82		25.767	223.8	0.128		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						113035
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
29 12.0N	115 38.0W	3/19/72		1459 GMT			613M	330	SKT	2	300 3 5					
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	13.60	33.49		25.125	284.9	0.000	
									10	13.61	33.50		25.130	284.4	0.028	
									20	13.45	33.48		25.147	282.7	0.057	
									30	13.06	33.53		25.264	271.6	0.085	
									50	11.58	33.65		25.641	235.8	0.136	
									75	10.72	33.92		26.006	201.1	0.191	
									100	10.32	34.06		26.184	184.1	0.239	
									125	9.99	34.15		26.311	172.1	0.284	
									150	9.85	34.21		26.381	165.4	0.327	
									200	9.87	34.40		26.526	151.7	0.408	
									250	9.46	34.44		26.626	142.2	0.484	
									300	8.79	34.41		26.710	134.2	0.556	
									400	7.97	34.42		26.844	121.5	0.690	
									500	7.15	34.41		26.955	111.0	0.814	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						113040
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
29 02.0N	115 57.0W	3/19/72		1745 GMT			1875M	330	2KT	2	310 1 6					
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
									0	14.21	33.44		24.960	300.6	0.000	
									10	14.17	33.45		24.976	299.0	0.030	
									20	14.14	33.46		24.990	297.7	0.060	
									30	13.85	33.40		25.004	296.4	0.090	
									50	12.43	33.35		25.249	273.1	0.147	
									75	11.66	33.42		25.448	254.2	0.213	
									100	10.94	33.59		25.710	229.2	0.274	
									125	10.50	33.96		26.075	194.5	0.328	
									150	10.11	34.10		26.252	177.7	0.375	
									200	9.91	34.33		26.465	157.5	0.460	
									250	9.68	34.44		26.589	145.7	0.539	
									300	8.87	34.42		26.706	134.6	0.611	
									400	7.90	34.42		26.854	120.5	0.745	
									500	6.77	34.38		26.984	108.3	0.867	
									600	5.92	34.40		27.111	96.2	0.977	
									700	5.42	34.41		27.180	89.6	1.078	
									800	5.04	34.44		27.249	83.1	1.173	
									1000	4.29	34.49		27.372	71.4	1.347	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						113060
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
28 21.5N	117 17.0W	3/20/72		0450 GMT			3603M	270	6KT							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	15.49	33.650	5.30	0.29	2.	0.00	0.0	311.5	0	15.49	33.650	5.30	24.845	311.5	0.000	
11	15.09	33.571	6.16	0.27	2.	0.00	0.0	308.9	10	15.12	33.577	6.11	24.869	309.2	0.031	
31	14.96	33.653	5.78	0.27	2.	0.00	0.0	300.2	20	15.03	33.600	5.99	24.907	305.6	0.062	
56	13.62	33.534	5.53	0.44	4.	0.17	0.3	282.1	30	14.97	33.649	5.80	24.958	300.7	0.092	
71	12.98	33.550	5.02	0.69	6.	0.09	3.6	268.6	50	13.99	33.566	5.61	25.102	287.0	0.151	
86	12.20	33.567	4.46	1.14	10.	0.03	9.9	253.0	75	12.77	33.551	4.88	25.337	264.7	0.221	
101	11.68	33.680	3.69	1.56	14.	0.03	13.7	235.3	100	11.71	33.673	3.74	25.633	236.6	0.284	
131	10.47	33.879	3.21	1.73	19.	0.02	19.3	200.0	125	10.68	33.843	3.26	25.951	206.3	0.340	
157	10.21	34.026	2.59	1.97	26.	0.02	19.6	184.8	150	10.25	33.990	2.75	26.142	188.2	0.390	
182	9.86	34.145	2.29	2.16	30.	0.01	23.3	170.4	200	9.79	34.222	1.96	26.399	163.7	0.480	
217	9.76	34.280	1.65	2.40	35.	0.02	24.4	158.8	250	9.42	34.342	1.26	26.555	148.9	0.560	
282	9.00	34.366	0.99	2.74	43.	0.00	26.5	140.6	300	8.78	34.371	0.86	26.681	137.0	0.634	
382	7.82	34.360	0.50	2.96	57.	0.00	33.2	123.9	400	7.63	34.362	0.48	26.847	121.2	0.770	
481	6.88	34.372	0.40	3.16	67.	0.01	35.2	110.3	500	6.72	34.377	0.40	26.988	107.9	0.891	
615	5.85	34.406	0.46	3.27	83.	0.00	38.0	94.9	600	5.95	34.402	0.45	27.108	96.5	1.001	
768	5.04	34.451	0.43	3.33	95.	0.00	40.1	82.3	700	5.37	34.432	0.44	27.204	87.4	1.101	
917	4.38	34.482	0.62	3.31	105.	0.00	39.9	72.9	800	4.89	34.459	0.46	27.281	80.1	1.194	
1131	3.73	34.518	0.83	3.34	120.	0.00	40.1	63.8	1000	4.09	34.498	0.71	27.400	68.8	1.361	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						113070
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
28 01.5N	117 56.0W	3/20/72		1012 GMT			3737M	210	7KT							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
0	15.46	33.608						313.9	0	15.46	33.608		24.820	313.9	0.000	
10	15.46	33.607						314.0	10	15.46	33.607		24.819	314.0	0.031	
30	14.68	33.574						300.2	20	15.14	33.595		24.879	308.3	0.063	
55	13.60	33.523						282.5	30	14.68	33.574		24.964	300.2	0.093	
70	12.70	33.516						265.9	50	13.84	33.534		25.107	286.5	0.152	
85	12.11	33.546						252.9	75	12.49	33.525		25.370	261.5	0.221	
100	11.39	33.588						237.0	100	11.39	33.588		25.628	237.0	0.284	
131	10.83	33.730 A						217.0	125	10.89	33.695		25.799	220.8	0.342	
156	10.41	34.008						189.4	150	10.53	33.948		26.061	195.9	0.394	
181	9.62	34.027						175.3	200	9.23	34.092		26.391	164.5	0.486	
216	8.98	34.151						156.3	250	8.55	34.210		26.590	145.6	0.566	
282	8.24	34.236						139.0	300	8.07	34.257		26.701	135.1	0.639	
382	7.35	34.326						119.9	400	7.18	34.335		26.890	117.1	0.771	
483	6.48	34.357						106.3	500	6.57	34.362		27.023	104.6	0.888	
618	5.71	34.390						94.5	600	5.80	34.387		27.115	95.8	0.996	
771	4.95	34.427						83.1	700	5.29	34.410		27.196	88.1	1.096	
918	4.35	34.469						73.6	800	4.82	34.436		27.270	81.1	1.189	
1127	3.73	34.514						64.1	1000	4.07	34.489		27.394	69.3	1.357	

A) AN ERROR OF -0.006 IN CONDUCTIVITY RATIO, 0.25 PPT, HAS BEEN ASSUMED FOR THIS VALUE.

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							1130A0
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
27 39.0N		118 35.0W		3/20/72		1522 GMT			3911M	210	9KT	2	330	4	8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD		
1	15.83	33.672						317.1	0	15.83	33.672		24.786	317.1	0.000		
11	15.84	33.670						317.5	10	15.84	33.672		24.783	317.5	0.032		
31	15.81	33.673						316.6	20	15.83	33.673		24.787	317.1	0.064		
56	15.67	33.673						313.6	30	15.81	33.675		24.791	316.7	0.095		
71	15.51	33.674						310.2	50	15.72	33.675		24.813	314.6	0.159		
86	14.70	33.582						300.1	75	15.37	33.656		24.875	308.7	0.237		
101	12.93	33.496						271.7	100	13.06	33.501		25.241	273.8	0.310		
131	10.80	33.637						223.4	125	11.09	33.595		25.686	231.5	0.374		
157	10.21	33.779						203.1	150	10.29	33.739		25.939	207.5	0.430		
183	10.06	33.990						185.1	200	9.90	34.079		26.270	176.0	0.527		
218	9.70	34.144						167.9	250	9.32	34.221		26.477	156.3	0.613		
282	8.94	34.262						147.4	300	8.78	34.281		26.611	143.7	0.690		
384	8.05	34.322						129.9	400	7.87	34.327		26.785	127.1	0.832		
483	6.94	34.344						113.2	500	6.79	34.351		26.957	110.8	0.958		
619	5.92	34.397						96.4	600	6.04	34.390		27.087	98.4	1.071		
772	4.93	34.438						82.1	700	5.36	34.420		27.195	88.3	1.172		
918	4.35	34.485						72.4	800	4.80	34.448		27.282	79.9	1.265		
1125	3.73	34.521						63.6	1000	4.08	34.504		27.406	68.2	1.431		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							117030
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 47.5N		114 56.0W		3/18/72		0451 GMT			103M	300	10KT		300	2	8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD		
									0	15.02	33.72		25.002	296.5	0.000		
									10	15.02	33.72		25.002	296.5	0.030		
									20	13.99	33.63		25.152	282.3	0.059		
									30	13.00	33.64		25.361	262.4	0.086		
									50	11.74	33.79		25.720	228.3	0.135		
									75	11.28	33.91		25.897	211.4	0.191		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							117035
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 38.0N		115 16.0W		3/18/72		0210 GMT			196M	300	11KT	2	300	2	8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD		
									0	14.75	33.63		24.991	297.6	0.000		
									10	14.58	33.68		25.066	290.4	0.029		
									20	14.30	33.69		25.134	284.1	0.058		
									30	13.19	33.75		25.408	257.9	0.085		
									50	12.05	33.82		25.685	231.6	0.135		
									75	10.89	33.96		26.007	201.0	0.189		
									100	10.37	34.17		26.261	176.8	0.237		
									125	10.24	34.28		26.369	166.5	0.280		
									150	10.03	34.37		26.475	156.5	0.321		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							117040
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 28.0N		115 35.5W		3/17/72		1817 GMT			994M	330	8KT	2	330	2	7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S16T	DT	DD		
									0	13.90	33.46		25.040	293.0	0.000		
									10	13.88	33.46		25.044	292.6	0.029		
									20	13.46	33.45		25.122	285.1	0.058		
									30	13.19	33.48		25.200	277.8	0.086		
									50	13.08	33.49		25.229	274.9	0.142		
									75	11.69	33.49		25.497	249.5	0.208		
									100	10.64	33.90		26.004	201.2	0.265		
									125	10.56	34.17		26.228	180.0	0.313		
									150	10.41	34.24		26.309	172.3	0.358		
									200	10.05	34.39		26.488	155.3	0.442		
									250	9.74	34.46		26.595	145.2	0.519		
									300	9.38	34.49		26.678	137.3	0.592		
									400	8.02	34.40		26.821	123.7	0.729		
									500	7.17	34.40		26.944	112.0	0.855		
									600	6.01	34.42		27.115	95.8	0.967		
									700	5.46	34.43		27.191	88.6	1.067		
									800	5.03	34.46		27.266	81.5	1.161		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203				117080	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
27 05.0N	118 17.0W	3/16/72		1620 GMT			4422M	310	5KT	2	320	2	7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	15.69	33.63		24.785	317.2	0.000
									10	15.69	33.64		24.793	316.5	0.032
									20	15.69	33.64		24.793	316.5	0.063
									30	15.67	33.63		24.790	316.8	0.095
									50	14.28	33.49		24.984	298.3	0.157
									75	13.55	33.43		25.089	288.3	0.231
									100	12.14	33.38		25.327	265.7	0.300
									125	10.92	33.69		25.792	221.5	0.362
									150	10.23	33.96		26.122	190.0	0.414
									200	10.00	34.27		26.403	163.4	0.504
									250	9.66	34.39		26.553	149.1	0.585
									300	8.91	34.40		26.684	136.7	0.659
									400	7.81	34.40		26.852	120.7	0.794
									500	6.90	34.40		26.982	108.5	0.916
									600	6.08	34.44		27.122	95.2	1.026
									700	5.43	34.44		27.203	87.5	1.125
									800	4.92	34.46		27.279	80.3	1.218
									1000	4.25	34.50		27.385	70.3	1.387

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203				118039	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 18.5N	115 24.0W	3/17/72		2315 GMT			260M	330	8KT	2	320	2	9		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	14.84	33.53	6.70	0.26	2.	0.00	0.1	306.7	0	14.84	33.53	6.70	24.895	306.7	0.000
10	15.13	33.67	6.89	0.26	4.	0.01	0.4	302.5	10	15.13	33.67	6.89	24.940	302.5	0.030
41	13.35	33.64	4.82	0.64	8.	0.03	0.0	269.1	20	14.87	33.66	6.47	24.989	297.8	0.061
66	11.53	33.85	2.77	1.80	22.	0.01	17.9	221.7	30	14.23	33.64	5.81	25.109	286.4	0.090
85	10.76	33.98	2.63	1.97	24.	0.01	20.7	197.4	50	12.64	33.69	3.98	25.472	251.8	0.144
100	10.65	34.03	2.26	2.09	27.	0.01	21.5	191.8	75	11.09	33.91	2.70	25.930	208.3	0.202
114	10.48	34.11	2.08	2.16	29.	0.00	24.2	183.1	100	10.65	34.03	2.26	26.104	191.8	0.252
129	10.32	34.20	1.84	2.29	31.	0.00	25.8	173.8	125	10.36	34.18	1.90	26.269	176.0	0.299
150	10.23	34.26	1.56	2.40	35.	0.00	26.7	167.9	150	10.23	34.26	1.56	26.356	167.9	0.343
175	9.99	34.34	1.24	2.54	38.	0.00	27.4	158.0	200	9.71	34.38	1.14	26.537	150.6	0.424
200	9.71	34.38	1.14	2.67	42.	0.01	28.1	150.6							

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203				118039	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 18.5N	115 24.0W	3/17/72		2342 GMT			260M	330	8KT	2	320	2	9		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.80	33.56		24.927	303.7	0.000
									10	15.13	33.70		24.963	300.3	0.030
									20	14.57	33.69		25.076	289.5	0.060
									30	14.21	33.64		25.114	285.9	0.089
									50	12.11	33.72		25.596	240.1	0.141
									75	10.99	33.93		25.965	204.9	0.197
									100	10.66	34.06		26.125	189.8	0.247
									125	10.35	34.21		26.296	173.5	0.293
									150	10.22	34.29		26.381	165.5	0.336
									200	9.81	34.38		26.521	152.2	0.418

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203				119033	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 18.5N	114 52.5W	3/19/72		0406 GMT			108M	320	22KT	2	320	2	9		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
									0	14.94	33.69		24.997	297.1	0.000
									10	14.94	33.69		24.997	297.1	0.030
									20	14.94	33.70		25.004	296.3	0.059
									30	14.94	33.70		25.004	296.3	0.089
									50	14.67	33.71		25.070	290.1	0.148
									75	12.37	33.70		25.531	246.3	0.215
									100	11.23	33.94		25.930	208.3	0.273

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203				119033	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
28 18.5N	114 52.5W	3/19/72		0438 GMT			108M	320	22KT	2	320	2	9		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	14.89		6.25	0.26	4.	0.00	0.0		0	14.89		6.25			
11	14.89		6.08	0.27	4.	0.00	0.0		10	14.89		6.09			
21	14.89		6.13	0.32	5.	0.00	0.0		20	14.89		6.13			
30	14.89		6.18	0.27	4.	0.00	0.0		30	14.89		6.18			
52	14.64		5.63	0.42	5.	0.04	0.0		50	14.66		5.72			
77	12.63		3.67	1.26	16.	0.01	11.1		75	12.86		3.88			

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203					120045	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 43.0N	115 33.0W	3/15/72		1336 GMT		2658M	330	7KT		320	2	7				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0									0	15.07	33.70		24.976	299.0	0.000	
10									10	15.07	33.70		24.976	299.0	0.030	
20									20	14.99	33.71		25.001	296.7	0.060	
30									30	14.37	33.66		25.096	287.7	0.089	
50									50	11.91	33.64		25.572	242.4	0.142	
75									75	10.71	33.85		25.938	207.6	0.199	
100									100	11.36	34.28		26.170	185.5	0.248	
125									125	11.29	34.38		26.260	176.9	0.294	
150									150	11.00	34.42		26.344	169.0	0.338	
200									200	10.87	34.56		26.476	156.4	0.422	
250									250	10.13	34.54		26.591	145.5	0.500	
300									300	9.33	34.50		26.694	135.7	0.573	
400									400	8.16	34.47		26.855	120.5	0.708	
500									500	6.99	34.43		26.993	107.4	0.829	
600									600	6.35	34.44		27.087	98.5	0.940	
700									700	5.61	34.45		27.189	88.8	1.043	
800									800	5.12	34.46		27.255	82.5	1.137	
1000									1000	4.30	34.48		27.363	72.3	1.311	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203					120045	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 43.0N	115 33.0W	3/15/72		1444 GMT		2658M	330	7KT		320	2	7				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	15.07	33.720	6.56	0.30	4.	0.00	0.0	297.6	0	15.07	33.720	6.56	24.991	297.6	0.000	
10	15.06	33.719	6.56	0.27	4.	0.00	0.1	297.4	10	15.06	33.719	6.56	24.993	297.4	0.030	
30	13.80	33.676	5.01	0.49	6.	0.05	0.1	275.2	20	14.56	33.702	5.87	25.086	288.6	0.059	
55	11.62	33.645	4.14	1.17	12.	0.01	12.9	237.6	30	13.80	33.676	5.01	25.227	275.2	0.087	
70	10.67	33.794	3.60	1.50	17.	0.00	17.2	209.6	50	12.05	33.627	4.27	25.533	246.0	0.140	
85	11.19	34.074	2.38	1.89	17.	0.00	21.1	197.7	75	10.78	33.889	3.20	25.970	204.5	0.196	
100	11.38	34.219	1.67	2.21	23.	0.00	23.0	190.4	100	11.38	34.219	1.67	26.119	190.4	0.246	
131	11.39	34.405	1.67	2.44	27.	0.00	25.9	176.8	125	11.39	34.373	1.67	26.236	179.2	0.293	
156	11.16	34.470	0.92	2.56	33.	0.00	27.5	168.0	150	11.22	34.458	1.12	26.334	169.9	0.338	
181	11.08	34.540	0.48	2.72	34.	0.00		161.5	200	10.87	34.558	0.42	26.474	156.6	0.421	
216	10.65	34.558	0.37	2.71	39.	0.00	28.9	152.8	250	10.21	34.542	0.37	26.579	146.7	0.500	
282	9.77	34.514	0.37	2.81	42.	0.00		141.6	300	9.51	34.505	0.35	26.668	138.2	0.574	
382	8.35	34.467	0.23	2.98	54.	0.00		123.5	400	8.12	34.458	0.23	26.851	120.8	0.710	
483	7.18	34.426	0.23	3.10	66.	0.00	36.0	110.2	500	7.04	34.426	0.23	26.983	108.4	0.832	
619	6.20	34.435	0.20	3.24	78.	0.00		97.0	600	6.31	34.432	0.20	27.085	98.6	0.944	
773	5.25	34.458	0.25	3.34	87.	0.00	39.6	83.9	700	5.66	34.447	0.22	27.180	89.6	1.046	
920	4.68	34.475	0.37	3.38	104.	0.00	41.3	76.6	800	5.12	34.462	0.27	27.257	82.4	1.141	
1131	3.88	34.517	0.61	3.29	105.U	0.00	39.8	65.3	1000	4.38	34.489	0.45	27.361	72.4	1.315	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203					120050	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 31.5N	115 52.5W	3/15/72		1754 GMT		3983M	280	9KT	2	300	3	9				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	16.02	33.73							0	16.02	33.73		24.788	317.0	0.000	
10	15.99	33.74							10	15.99	33.74		24.802	315.6	0.032	
20	15.98	33.74							20	15.98	33.74		24.805	315.4	0.063	
30	15.98	33.74							30	15.98	33.74		24.805	315.4	0.095	
50	14.97	33.58							50	14.97	33.58		24.906	305.7	0.157	
75	13.71	33.48							75	13.71	33.48		25.094	287.8	0.232	
100	11.92	33.56							100	11.92	33.56		25.508	248.4	0.299	
125	10.83	33.77							125	10.83	33.77		25.870	214.0	0.358	
150	10.49	33.98							150	10.49	33.98		26.093	192.8	0.409	
200	10.30	34.33							200	10.30	34.33		26.398	163.8	0.500	
250	9.89	34.45							250	9.89	34.45		26.562	148.3	0.581	
300	9.10	34.42							300	9.10	34.42		26.669	138.1	0.655	
400	7.91	34.42							400	7.91	34.42		26.853	120.7	0.791	
500	7.11	34.41							500	7.11	34.41		26.960	110.5	0.914	
600	6.20	34.39							600	6.20	34.39		27.067	100.4	1.028	
700	5.53	34.41							700	5.53	34.41		27.167	90.9	1.132	
800	4.97	34.45							800	4.97	34.45		27.265	81.6	1.227	
1000	4.26	34.48							1000	4.26	34.48		27.368	71.9	1.399	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203					120060	
LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 13.0N	116 30.0W	3/15/72		2243 GMT		3709M	310	10KT	2	320	2	7				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD	
0	16.02	33.73							0	16.02	33.73		24.788	317.0	0.000	
10	15.88	33.73							10	15.88	33.73		24.819	313.9	0.032	
20	15.88	33.74							20	15.88	33.74		24.827	313.2	0.063	
30	15.90	33.75							30	15.90	33.75		24.830	312.9	0.094	
50	15.83	33.75							50	15.83	33.75		24.846	311.4	0.157	
75	15.07	33.72							75	15.07	33.72		24.991	297.6	0.234	
100	13.26	33.71							100	13.26	33.71		25.363	262.2	0.304	
125	11.55	33.86							125	11.55	33.86		25.809	219.8	0.365	
150	11.42	34.07							150	11.42	34.07		25.996	202.0	0.419	
200	10.85	34.33							200	10.85	34.33		26.301	173.0	0.514	
250	10.02	34.34							250	10.02	34.34		26.454	158.5	0.600	
300	9.04	34.31							300	9.04	34.31		26.593	145.4	0.678	
400	7.77	34.34							400	7.77	34.34		26.811	124.6	0.820	
500	6.84	34.37							500	6.84	34.37		26.966	109.9	0.944	
600	6.08	34.39							600	6.08	34.39		27.083	98.9	1.057	
700	5.48	34.42							700	5.48	34.42		27.181	89.6	1.159	
800	4.95	34.43							800	4.95	34.43		27.251	82.9	1.254	
1000	4.12	34.49							1000	4.12	34.49		27.390	69.7	1.425	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						120060
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 13.0N	116 30.0W	3/15/72	2345	GMT		3709M	310	10KT	2	320	2	7				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	16.02	33.733	6.01	0.24	2.	0.00	0.1	316.7	0	16.02	33.733	6.01	24.790	316.7	0.000	
10	15.89	33.724	5.34U	0.25	2.	0.00	0.1	314.6	10	15.89	33.724	5.87	24.813	314.6	0.032	
31	15.86	33.726	5.75	0.25	2.	0.00	0.0	313.8	20	15.88	33.727	5.79	24.817	314.2	0.063	
57	15.80	33.729	5.90	0.26	0.	0.00	0.6	312.3	30	15.86	33.728	5.75	24.821	313.8	0.095	
72	15.42	33.706	5.26	0.31	2.	0.15	0.6	305.9	50	15.82	33.730	5.86	24.832	312.7	0.157	
87	14.78	33.671	4.36	0.52	3.	0.02	1.9	295.2	75	15.34	33.699	5.10	24.915	304.8	0.235	
103	13.05	33.700	3.13	1.15	10.	0.00	11.1	258.9	100	13.39	33.689	3.34	25.319	266.4	0.307	
133	11.34	33.917	3.05	1.80	21.	0.00	18.9	211.9	125	11.61	33.853	3.07	25.791	221.5	0.369	
159	11.31	34.092	1.52	2.08	26.	0.00	22.1	198.5	150	11.32	34.050	2.02	25.998	201.9	0.422	
184	11.03	34.235	1.78	2.37	31.	0.00	25.5	183.1	200	10.82	34.289	1.67	26.275	175.5	0.519	
220	10.53	34.329	1.45	2.48	36.	0.00	25.9	167.7	250	10.08	34.351	1.41	26.452	158.7	0.605	
286	9.52	34.345	1.36	2.57	40.	0.00	27.6	150.2	300	9.28	34.341	1.29	26.577	146.8	0.684	
387	7.88	34.314	0.79	2.82	56.	0.00	32.2	128.1	400	7.72	34.318	0.74	26.800	125.7	0.827	
488	6.85	34.351	0.48	3.06	69.	0.00	35.9	111.5	500	6.75	34.355	0.48	26.966	110.0	0.952	
624	5.89	34.384	0.46	3.24	85.	0.00	38.3	97.1	600	6.03	34.380	0.46	27.080	99.2	1.064	
776	5.05	34.423	0.51	3.27	96.	0.00	38.1	84.5	700	5.45	34.404	0.48	27.172	90.4	1.167	
926	4.36	34.459	0.57	3.35	116.	0.00	38.1	74.5	800	4.93	34.430	0.51	27.253	82.7	1.262	
1137	3.75	34.504	0.94	3.31	125.	0.00	38.1	65.1	1000	4.10	34.477	0.66	27.382	70.5	1.434	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						120070
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
26 52.5N	117 11.0W	3/16/72	0443	GMT		3945M	290	8KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	15.80	33.63							0	15.80	33.63		24.761	319.5	0.000	
10	15.80	33.63							10	15.80	33.63		24.761	319.5	0.032	
20	15.71	33.64							20	15.71	33.64		24.789	316.9	0.064	
30	15.69	33.64							30	15.69	33.64		24.793	316.5	0.096	
50	14.32	33.47							50	14.32	33.47		24.960	300.6	0.157	
75	13.03	33.38							75	13.03	33.38		25.154	282.1	0.231	
100	11.97	33.50							100	11.97	33.50		25.452	253.8	0.298	
125	10.59	33.70							125	10.59	33.70		25.858	215.2	0.357	
150	10.26	33.92							150	10.26	33.92		26.082	193.8	0.409	
200	9.33	34.11							200	9.33	34.11		26.390	164.7	0.501	
250	9.07	34.26							250	9.07	34.26		26.549	149.5	0.581	
300	8.46	34.32							300	8.46	34.32		26.691	136.0	0.655	
400	7.15	34.31							400	7.15	34.31		26.876	118.5	0.789	
500	6.47	34.36							500	6.47	34.36		27.008	106.0	0.908	
600	5.75	34.39							600	5.75	34.39		27.124	95.0	1.015	
700	5.27	34.42							700	5.27	34.42		27.206	87.2	1.115	
800	4.88	34.45							800	4.88	34.45		27.275	80.6	1.207	
1000	4.15	34.51							1000	4.15	34.51		27.403	68.5	1.374	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						120080
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
26 30.0N	117 52.5W	3/16/72	0940	GMT		3879M	310	7KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	15.90	33.69							0	15.90	33.69		24.784	317.3	0.000	
10	15.86	33.69							10	15.86	33.69		24.793	316.4	0.032	
20	15.77	33.67							20	15.77	33.67		24.798	316.0	0.063	
30	15.75	33.68							30	15.75	33.68		24.810	314.8	0.095	
50	15.03	33.59							50	15.03	33.59		24.900	306.3	0.157	
75	13.75	33.45							75	13.75	33.45		25.063	290.8	0.232	
100	12.18	33.44							100	12.18	33.44		25.366	262.0	0.302	
125	11.11	33.62							125	11.11	33.62		25.703	229.9	0.364	
150	10.34	33.83							150	10.34	33.83		26.002	201.5	0.419	
200	9.48	34.12							200	9.48	34.12		26.373	166.2	0.513	
250	8.83	34.23							250	8.83	34.23		26.563	148.1	0.593	
300	8.45	34.31							300	8.45	34.31		26.685	136.6	0.667	
400	7.38	34.33							400	7.38	34.33		26.859	120.0	0.801	
500	6.48	34.37							500	6.48	34.37		27.015	105.3	0.921	
600	5.87	34.40							600	5.87	34.40		27.117	95.6	1.029	
700	5.31	34.43							700	5.31	34.43		27.209	86.9	1.128	
800	4.83	34.46							800	4.83	34.46		27.289	79.3	1.220	
1000	4.19	34.51							1000	4.19	34.51		27.399	68.9	1.387	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						120080
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
26 30.0N	117 52.5W	3/16/72	1059	GMT		3879M	310	7KT								
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
0	15.75	33.681	5.86	0.31	2.	0.00	0.1	314.7	0	15.75	33.681	5.86	24.811	314.7	0.000	
10	15.74	33.669	5.67	0.24	2.	0.00	0.0	315.4	10	15.74	33.669	5.67	24.804	315.4	0.032	
30	15.71	33.668	5.90	0.24	2.	0.00	0.0	314.8	20	15.73	33.670	5.74	24.807	315.1	0.063	
55	14.97	33.580	5.97	0.32	2.	0.00	0.1	305.7	30	15.71	33.668	5.90	24.810	314.8	0.095	
70	14.39	33.509	5.87	0.29	2.	0.00	0.0	299.1	50	15.16	33.604	5.96	24.881	308.0	0.157	
85	13.68	33.449	5.88	0.31	2.	0.07	0.1	289.5	75	14.18	33.488	5.87	25.003	296.5	0.233	
100	12.71	33.446	5.32	0.62	6.	0.00	4.9	272.0	100	12.71	33.436	5.32	25.261	272.0	0.305	
131	11.21	33.613	4.47	1.10	12.	0.00	12.5	232.1	125	11.45	33.566	4.64	25.598	239.9	0.369	
156	10.42	33.841	3.40	1.57	19.	0.00	18.3	202.0	150	10.59	33.789	3.64	25.926	208.7	0.426	
181	9.72	33.984	3.11	1.80	26.	0.00	22.5	180.1	200	9.44	34.062	2.73	26.333	170.0	0.523	
216	9.29	34.111	2.40	2.09	33.	0.00	25.8	164.0	250	8.95	34.195	1.91	26.516	152.7	0.606	
282	8.66	34.246	1.57	2.50	43.	0.00	28.9	144.4	300	8.47	34.264	1.40	26.646	140.3	0.681	
383	7.61	34.308	0.82	3.00	58.	0.00	31.2	124.8	400	7.46	34.321	0.71	26.841	121.8	0.819	
483	6.76	34.372	0.31	3.12	72.	0.00	34.2	108.7	500	6.62	34.378	0.31	27.001	106.6	0.940	
619	5.74	34.40	0.33	3.23	87.	0.00	36.7	94.1	600	5.87	34.399	0.33	27.115	95.8	1.049	
773	4.95	34.441	0.33	3.29	103.	0.00	39.0	82.1	700	5.29	34.422	0.33	27.205	87.3	1.148	
920	4.37	34.484	0.46	3.30	114.	0.00	41.4	72.7	800	4.83	34.450	0.35	27.280	80.2	1.240	
1129	3.80	34.527	0.65	3.30	125.	0.00	40.2	63.8	1000	4.12	34.504	0.53	27.402	68.7	1.407	

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7203 123037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 24.5N	114 40.0W	3/14/72	2136	GMT	73M	290	11KT	1	290	2	9				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
									0	14.16	33.66		25.140	283.5	0.000
									10	13.64	33.71		25.286	269.5	0.028
									20	13.01	33.76		25.452	253.8	0.054
									30	12.60	33.81		25.571	242.4	0.079
									50	11.88	34.09		25.926	208.7	0.124

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7203 123037

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 24.5N	114 40.0W	3/14/72	2150	GMT	73M	290	11KT	1	290	2	9				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
	0		14.37		5.87	0.38	7.	0.03	1.2	0	14.37		5.87		
	10		13.75		5.16	0.48	8.	0.06	2.5	10	13.75		5.16		
	21		13.08		4.68	0.69	11.	0.10	7.6	20	13.13		4.72		
	31		12.74		4.09	0.81	13.	0.09	10.2	30	12.77		4.15		
	51		11.92		2.70	1.25	22.	0.01	20.1	50	11.97		2.78		

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7203 123042

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
27 16.0N	115 02.0W	3/14/72	1707	GMT	2540M		0KT	2	320	2	9				
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD
	0		15.16		33.67				24.933	303.1	0.000				
	10		15.14		33.68				24.945	302.0	0.030				
	20		15.14		33.68				24.945	302.0	0.061				
	30		15.12		33.68				24.950	301.5	0.091				
	50		13.68		33.53				25.139	283.5	0.149				
	75		11.29		33.63				25.678	232.2	0.214				
	100		10.76		33.94				26.014	200.3	0.269				
	125		11.48		34.38				26.225	180.2	0.317				
	150		11.23		34.49				26.357	167.8	0.361				
	200		10.60		34.55				26.516	152.6	0.443				
	250		10.17		34.55				26.592	145.4	0.520				
	300		9.44		34.53				26.699	135.2	0.594				
	400		8.29		34.47				26.835	122.4	0.729				
	500		7.22		34.45				26.976	109.0	0.852				
	600		6.45		34.44				27.074	99.7	0.965				
	700		5.86		34.45				27.158	91.8	1.070				
	800		5.34		34.47				27.237	84.2	1.167				
	1000		4.40		34.49				27.360	72.6	1.344				

RV ALEXANDER AGASSIZ CALCOFI CRUISE 7203 123042

LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES									
27 16.0N	115 02.0W	3/14/72	1759	GMT	2540M		0KT	2	320	2	9							
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD			
	0		15.17		33.689	6.25	0.31	4.	0.00	0.0	301.9	0	15.17	33.689	6.25	24.946	301.9	0.000
	10		15.15		33.683	6.25	0.31	4.	0.00	0.0	301.5	10	15.13	33.683	6.25	24.950	301.5	0.030
	30		15.04		33.688	6.23	0.36	4.	0.00	0.1	299.3	20	15.09	33.687	6.24	24.962	300.4	0.060
	55		12.65		33.553	4.68	0.79	7.	0.08	3.4	262.2	30	15.04	33.688	6.23	24.973	299.3	0.090
	70		11.47		33.654	4.06	1.22	13.	0.02	13.7	233.6	50	13.21	33.569	5.03	25.263	271.7	0.148
	85		10.90		33.875	2.82	1.64	19.	0.00	19.0	207.5	75	11.22	33.730	3.61	25.768	223.7	0.210
	100		10.82		33.96	2.95	1.79	21.	0.00	19.4	199.8	100	10.82	33.960	2.95	26.019	199.8	0.263
	130		11.31		34.378	1.21	2.40	30.	0.00	25.4	177.4	125	11.23	34.310	1.54	26.216	181.1	0.312
	155		11.05		34.459	0.87	2.54	33.	0.00	26.0	166.9	150	11.13	34.455	0.89	26.347	168.6	0.356
	181		10.73		34.498	0.64	2.63	35.	0.00	25.6	158.6	200	10.61	34.535	0.48	26.502	153.9	0.439
	216		10.55		34.561	0.36	2.77	38.	0.00		150.6	250	10.16	34.567	0.33	26.605	144.1	0.516
	281		9.75		34.547	0.30	2.87	43.	0.00	27.4	138.9	300	9.49	34.537	0.28	26.695	135.6	0.589
	382		8.43		34.49	0.23	3.00	54.	0.00	28.8	122.9	400	8.23	34.484	0.22	26.854	120.6	0.723
	482		7.43		34.460	0.20	3.14	65.	0.00	35.8	111.0	500	7.27	34.456	0.20	26.974	109.1	0.846
	618		6.30		34.444	0.19	3.22	80.	0.00	40.1	97.6	600	6.43	34.445	0.19	27.079	99.2	0.959
	772		5.34		34.476	0.26	3.33	98.	0.00	43.2	83.8	700	5.75	34.459	0.22	27.178	89.9	1.062
	918		4.67		34.505	0.36	3.36	110.	0.00	38.4	74.2	800	5.20	34.483	0.28	27.263	81.8	1.157
	1129		3.83		34.541	0.62	3.36	122.	0.00	40.1	63.0	1000	4.33	34.521	0.44	27.392	69.5	1.328

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						123050	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM	WIND		SPEED	WEATHER		DOMINANT WAVES	
26	57.5N	115	33.5W	3/14/72		1136	GMT			3293M	320	9KT	02	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	15.06	33.71		24.986	298.1	0.000		
									10	15.07	33.72		24.991	297.6	0.030		
									20	15.00	33.71		24.999	296.9	0.060		
									30	14.45	33.65		25.075	289.6	0.089		
									50	13.77	33.68		25.236	274.3	0.146		
									75	11.58	33.66		25.649	235.1	0.210		
									100	11.58	33.99		25.904	210.7	0.266		
									125	10.92	34.11		26.118	190.5	0.317		
									150	10.59	34.24		26.277	175.3	0.363		
									200	10.69	34.51		26.469	157.0	0.448		
									250	10.04	34.48		26.559	148.5	0.527		
									300	9.49	34.48		26.652	139.7	0.602		
									400	8.24	34.46		26.835	122.4	0.740		
									500	7.21	34.44		26.970	109.6	0.863		
									600	6.22	34.41		27.080	99.1	0.976		
									700	5.50	34.43		27.186	89.0	1.078		
									800	4.97	34.45		27.265	81.6	1.173		
									1000	4.20	34.49		27.382	70.5	1.343		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						123060	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM	WIND		SPEED	WEATHER		DOMINANT WAVES	
26	37.5N	116	10.5W	3/14/72		0547	GMT			3800M	330	9KT	2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	16.06	33.75		24.794	316.4	0.000		
									10	16.06	33.76		24.802	315.6	0.032		
									20	16.06	33.76		24.802	315.6	0.063		
									30	16.04	33.75		24.799	315.9	0.095		
									50	15.90	33.76		24.838	312.2	0.158		
									75	14.01	33.61		25.133	284.1	0.233		
									100	12.15	33.65		25.534	246.0	0.300		
									125	11.06	33.87		25.906	210.6	0.357		
									150	11.22	34.20		26.133	189.0	0.408		
									200	10.36	34.33		26.388	164.8	0.499		
									250	9.54	34.37		26.558	148.7	0.579		
									300	8.81	34.38		26.684	136.7	0.653		
									400	7.74	34.38		26.847	121.3	0.789		
									500	6.83	34.37		26.968	109.8	0.911		
									600	6.06	34.39		27.085	98.6	1.023		
									700	5.56	34.44		27.187	89.0	1.126		
									800	5.04	34.46		27.265	81.6	1.220		
									1000	4.26	34.49		27.376	71.1	1.391		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						123060	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM	WIND		SPEED	WEATHER		DOMINANT WAVES	
26	37.5N	116	10.5W	3/14/72		0633	GMT			3800M	330	9KT	2	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
	0	15.99	33.758	5.87	0.26	2.	0.00	0.0	314.3	0	15.99	33.758	5.87	24.816	314.3	0.000	
	10	16.01	33.755	5.91	0.28	2.	0.00	0.1	314.9	10	16.01	33.755	5.91	24.809	314.9	0.031	
	31	15.95	33.750	5.89	0.25	2.	0.00	0.1	314.0	20	16.00	33.758	5.90	24.814	314.5	0.063	
	56	15.77	33.750	5.87	0.27	2.	0.00	0.3	310.1	30	15.96	33.752	5.89	24.818	314.0	0.094	
	71	14.69	33.661	5.44	0.43	4.	0.10	0.8	294.1	50	15.81	33.751	5.87	24.850	311.0	0.157	
	86	13.14	33.586	4.56	0.86	8.	0.01	7.4	269.0	75	14.25	33.634	5.18	25.099	287.3	0.232	
	101	12.51	33.629	4.59	1.03	10.	0.00	10.0	254.1	100	12.54	33.625	4.59	25.439	255.0	0.301	
	131	11.14	33.863	3.38	1.61	19.	0.00	18.3	212.5	125	11.36	33.803	3.70	25.799	220.8	0.361	
	157	11.22	34.194	2.09	2.18	27.	0.00	22.6	189.4	150	11.20	34.120	2.41	26.074	194.6	0.414	
	183	10.89	34.313	1.62	2.34	31.	0.00	25.9	175.0	200	10.59	34.343	1.52	26.357	167.7	0.506	
	218	10.24	34.353	1.47	2.49	36.	0.00	26.3	161.2	250	9.70	34.375	1.24	26.535	150.9	0.588	
	284	9.18	34.386	0.98	2.71	44.	0.00	28.5	141.9	300	8.98	34.390	0.91	26.665	138.5	0.663	
	384	8.03	34.392	0.65	2.98	56.	0.00	28.9	124.4	400	7.83	34.390	0.61	26.840	121.9	0.800	
	484	6.87	34.38	0.47	3.09	69.	0.00	34.6	109.6	500	6.73	34.383	0.46	26.991	107.6	0.922	
	619	5.90	34.412	0.41	3.32	83.	0.00	36.6	95.1	600	6.01	34.407	0.42	27.104	96.8	1.032	
	772	5.20	34.460	0.45	3.32	96.	0.00	39.2	83.4	700	5.50	34.439	0.42	27.193	88.4	1.133	
	919	4.55	34.486	0.51	3.39	109.	0.00	41.0	74.4	800	5.07	34.466	0.46	27.266	81.5	1.227	
	1128	3.83	34.52	0.82	3.29	119.	0.00	40.6	64.6	1000	4.24	34.501	0.60	27.385	70.2	1.397	

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						127034	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM	WIND		SPEED	WEATHER		DOMINANT WAVES	
26	55.5N	114	06.0W	3/13/72		0830	GMT			78M	020	15KT	1	SIGT	DT	DD	
Z	T	S	O2	P04	S103	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
									0	16.71	33.96		24.805	315.3	0.000		
									10	16.72	33.97		24.811	314.8	0.032		
									20	16.70	33.97		24.815	314.3	0.063		
									30	15.47	33.77		24.942	302.3	0.094		
									50	13.13	33.86		25.505	248.7	0.149		

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

127034

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 55.5N		114 06.0W		3/13/72		0849		GMT	78M	020	15KT	1			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	16.65	33.970	5.83	0.35	0.	0.00	0.0	313.2	0	16.65	33.970	5.83	24.827	313.2	0.000
10	16.68	33.968	5.77	0.39	1.	0.00	0.2	314.0	10	16.68	33.968	5.77	24.818	314.0	0.031
20	16.65	33.967	5.70	0.34	1.	0.00	0.0	313.4	20	16.65	33.967	5.70	24.825	313.4	0.063
30	16.10	33.896	5.65	0.91	1.	0.00	0.0	306.6	30	16.10	33.896	5.65	24.897	306.6	0.094
51	13.36	33.809	5.99	1.20	12.	0.14	10.8	256.9	50	13.34	33.811	4.12	25.385	260.3	0.151

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

127040

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 42.5N		114 29.5W		3/13/72		1141		6MT	3018M	330	12KT	1			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	16.46	33.89							0	16.46	33.89		24.810	314.9	0.000
10	16.47	33.90							10	16.47	33.90		24.815	314.4	0.031
20	16.46	33.90							20	16.46	33.90		24.817	314.1	0.063
30	16.06	33.85							30	16.06	33.85		24.871	309.1	0.094
50	13.26	33.54							50	13.26	33.54		25.232	274.7	0.153
75	11.35	33.71							75	11.35	33.71		25.730	227.4	0.216
100	10.99	33.91							100	10.99	33.91		25.950	206.4	0.271
125	11.06	34.25							125	11.06	34.25		26.201	182.5	0.320
150	10.67	34.31							150	10.67	34.31		26.318	171.5	0.365
200	10.66	34.52							200	10.66	34.52		26.483	155.8	0.449
250	9.88	34.51							250	9.88	34.51		26.610	143.7	0.526
300	9.38	34.49							300	9.38	34.49		26.678	137.3	0.599
400	8.15	34.45							400	8.15	34.45		26.840	121.8	0.735
500	7.19	34.44							500	7.19	34.44		26.973	109.3	0.858
600	6.27	34.42							600	6.27	34.42		27.082	99.0	0.971
700	5.65	34.44							700	5.65	34.44		27.176	90.0	1.074
800	5.17	34.46							800	5.17	34.46		27.250	83.1	1.170
1000	4.29	34.49							1000	4.29	34.49		27.372	71.4	1.343

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

127040

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 42.5N		114 29.5W		3/13/72		1240		6MT	3018M	330	12KT	1			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	16.42	33.893	5.99	0.35	1.	0.00	0.0	313.8	0	16.42	33.893	5.99	24.821	313.8	0.000
12	16.43	33.891	6.00	0.39	1.	0.00	0.0	314.1	10	16.43	33.893	6.00	24.818	314.1	0.031
33	16.25	33.865	5.87	0.29	1.	0.00	0.0	312.1	20	16.36	33.882	5.95	24.825	313.4	0.063
59	12.91	33.526	4.80	0.66	5.	0.14	1.9	269.1	30	16.28	33.870	5.89	24.836	312.4	0.094
74	11.73	33.592	4.14	1.14	11.	0.00	11.4	242.7	50	14.17	33.620	5.23	25.106	286.7	0.154
89	11.27	33.877	3.13	1.68	18.	0.00	18.3	213.7	75	11.69	33.612	4.07	25.591	240.6	0.221
104	10.94	33.989	2.65	1.84	21.	0.04	20.4	199.7	100	11.01	33.968	2.75	25.991	202.5	0.277
134	11.09	34.255	1.75	2.25	28.	0.00	23.6	182.7	125	11.05	34.188	2.00	26.155	186.9	0.326
159	10.89	34.381	1.24	2.45	32.	0.00	24.8	169.9	150	10.98	34.346	1.40	26.289	174.2	0.372
183	10.67	34.432	1.00	2.56	33.	0.00	26.9	162.5	200	10.48	34.459	0.79	26.466	157.3	0.457
219	10.25	34.478	0.59	2.75	38.	0.00	26.5	152.1	250	9.85	34.479	0.55	26.591	145.5	0.535
284	9.44	34.465	0.51	2.83	43.	0.00	28.3	140.1	300	9.31	34.467	0.49	26.671	138.0	0.608
346P	8.98	34.471	0.43	2.86	48.	0.00	27.1	132.5	400	8.40	34.459	0.37	26.808	124.9	0.747
501P	7.26	34.454	0.28	3.16	64.	0.01	34.8	110.7	500	7.27	34.435	0.28	26.957	110.8	0.872
674P	5.81		0.28	3.30	83.	0.00	36.3		600	6.36	34.423	0.28	27.072	99.9	0.986
838P	4.99	34.464	0.39	3.44	99.	0.00	39.5	80.8	700	5.66	34.432	0.29	27.169	90.7	1.090
1067P	4.09	34.505	0.69	3.56	116.	0.00	39.8	68.3	800	5.15	34.456	0.36	27.248	83.2	1.186
									1000	4.32	34.497	0.58	27.374	71.3	1.360

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

127050

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
26 22.5N		115 07.5W		3/13/72		1833		6MT	3367M	310	7KT	2	510 * 8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.80	33.72							0	15.80	33.72		24.830	313.0	0.000
10	15.77	33.73							10	15.77	33.73		24.844	311.6	0.031
20	15.76	33.73							20	15.76	33.73		24.846	311.4	0.062
30	15.77	33.73							30	15.77	33.73		24.844	311.6	0.094
50	15.46	33.74							50	15.46	33.74		24.921	304.3	0.155
75	12.85	33.61							75	12.85	33.61		25.368	261.8	0.227
100	11.76	33.84							100	11.76	33.84		25.755	225.0	0.288
125	11.78	34.14							125	11.78	34.14		25.983	203.2	0.342
150	11.44	34.34							150	11.44	34.34		26.202	182.5	0.391
200	10.38	34.41							200	10.38	34.41		26.446	159.3	0.479
250	9.86	34.46							250	9.86	34.46		26.574	147.1	0.558
300	9.27	34.49							300	9.27	34.49		26.696	135.6	0.631
400	8.23	34.47							400	8.23	34.47		26.844	121.5	0.766
500	7.03	34.44							500	7.03	34.44		26.995	107.2	0.888
600	6.18	34.44							600	6.18	34.44		27.109	96.4	0.998
700	5.58	34.44							700	5.58	34.44		27.185	89.2	1.099
800	5.14	34.46							800	5.14	34.46		27.253	82.7	1.194
1000	4.36	34.49							1000	4.36	34.49		27.365	72.1	1.368

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						127060	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
26 04.0N		115 46.0W		3/13/72		2350		GMT	3813M	300	10KT	2	310	3	8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0									0	15.99	33.72		24.787	317.0	0.000		
10									10	15.94	33.73		24.806	315.2	0.032		
20									20	15.79	33.73		24.840	312.0	0.063		
30									30	15.77	33.73		24.844	311.6	0.094		
50									50	15.24	33.68		24.923	304.0	0.156		
75									75	14.38	33.62		25.063	290.8	0.231		
100									100	12.57	33.52		25.553	263.2	0.301		
125									125	11.52	33.84		25.799	220.7	0.362		
150									150	11.82	34.31		26.107	191.4	0.414		
200									200	10.51	34.35		26.377	165.8	0.506		
250									250	9.90	34.44		26.552	149.2	0.587		
300									300	9.47	34.48		26.655	139.4	0.662		
400									400	8.32	34.47		26.830	122.8	0.800		
500									500	7.23	34.45		26.975	109.1	0.923		
600									600	6.44	34.45		27.083	98.8	1.035		
700									700	5.68	34.45		27.180	89.6	1.138		
800									800	5.16	34.46		27.251	82.9	1.234		
1000									1000	4.23	34.50		27.387	70.1	1.406		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						127060	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
26 04.0N		115 46.0W		3/14/72		0039		GMT	3813M	300	10KT	2	310	3	8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.91	33.73	6.02	0.26	2.	0.00	0.0	314.6	0	15.91	33.73	6.02	24.813	314.6	0.000		
10	15.88	33.73	5.94	0.27	1.	0.00	0.0	313.9	10	15.88	33.73	5.94	24.819	313.9	0.031		
30	15.70	33.72	5.84	0.28	3.	0.00	0.1	310.8	20	15.81	33.73	5.89	24.832	312.8	0.063		
55	15.22	33.70	5.71	0.29	2.	0.00	0.0	302.2	30	15.70	33.72	5.84	24.852	310.8	0.094		
70	14.67	33.64	5.73	0.31	2.	0.06	0.0	295.2	50	15.35	33.71	5.73	24.921	304.3	0.156		
85	14.16	33.63	5.48	0.44	5.	0.09	0.0	285.6	75	14.55	33.64	5.65	25.042	292.8	0.231		
100	12.71	33.53	4.44	0.85	7.	0.01	7.4	265.1	100	12.71	33.53	4.44	25.333	265.1	0.301		
130	11.54	33.88	3.06	1.60	18.	0.00	17.9	218.1	125	11.60	33.79	3.28	25.748	225.6	0.363		
155	11.83	34.30	1.45	2.31	28.	0.00	24.8	192.3	150	11.77	34.23	1.73	26.052	196.7	0.417		
180	11.00	34.33	1.24	2.33	31.	0.00	25.0	175.6	200	10.48	34.34	1.24	26.375	166.0	0.509		
215	10.17	34.35	1.24	2.53	34.	0.00	25.9	160.2	250	9.74	34.39	0.96	26.543	150.0	0.591		
281	9.49	34.43	0.65	2.73	43.	0.00	27.2	143.4	300	9.30	34.44	0.55	26.651	139.8	0.666		
381	8.46	34.44	0.29	2.96	53.	0.00	29.9	127.1	400	8.24	34.44	0.28	26.816	124.2	0.805		
482	7.33	34.42	0.23	3.12	65.	0.00	34.8	112.7	500	7.16	34.42	0.22	26.960	110.5	0.930		
618	6.21	34.42	0.19	3.25	78.	0.00	35.5	98.2	600	6.34	34.42	0.19	27.072	99.9	1.043		
772	5.28	34.44	0.28	3.29	93.	0.00	37.2	85.8	700	5.68	34.43	0.24	27.164	91.2	1.147		
921	4.51	34.46	0.61	3.34	105.	0.00	37.2	75.9	800	5.12	34.44	0.34	27.242	83.8	1.244		
1134	3.85	34.50	0.65	3.28	123.	0.00	39.1	66.3	1000	4.20	34.47	0.62	27.369	71.8	1.418		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						130030	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
26 28.0N		113 28.0W		3/13/72		0029		GMT	84M	290	14KT	1	320	3	5		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0									0	17.30	34.03		24.720	323.4	0.000		
10									10	17.00	34.02		24.783	317.4	0.032		
20									20	15.90	33.97		24.999	296.8	0.063		
30									30	14.86	33.92		25.191	278.6	0.092		
50									50	13.45	34.11		25.633	236.5	0.143		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203						130030	
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
26 28.0N		113 28.0W		3/13/72		0057		GMT	84M	290	14KT	1	320	3	5		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	17.20	34.026	5.82	0.29	4.	0.00	0.9	321.5	0	17.20	34.026	5.82	24.740	321.5	0.000		
10	16.89	33.999	5.32	0.33	5.	0.00	0.2	316.5	10	16.89	33.999	5.32	24.793	316.5	0.032		
20	15.97	33.941	4.72	0.44	7.	0.05	0.3	300.5	20	15.97	33.941	4.72	24.961	300.5	0.063		
30	15.01	33.923	4.50	0.85	9.	0.39	6.4	281.5	30	15.01	33.923	4.50	25.160	281.5	0.092		
51	13.60	34.056	1.77	1.73	21.	0.01	18.0	243.4	50	13.66	34.048	1.92	25.542	245.2	0.145		
75	12.03	34.279	0.77	2.74	34.	0.29	22.7	197.5	75	12.03	34.279	0.77	26.044	197.5	0.201		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							130060
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
25 30.0N		115 25.0W		3/12/72		0256 GMT			3832M	340	13KT	1	340 3 3				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	17.29	33.978	A 5.56	0.30	2.	0.00	0.0	327.0	0	17.29	33.978	5.56	24.682	327.0	0.000		
10	17.26	33.973	5.86	0.29	2.	0.00	0.2	326.7	10	17.26	33.973	5.86	24.685	326.7	0.033		
29	17.17	33.964		0.29	2.	0.00	0.0	325.3	20	17.21	33.970	5.83	24.693	326.0	0.065		
56	15.80	33.753	5.72	0.32	3.	0.00	0.0	310.6	30	17.15	33.960	5.80	24.701	325.2	0.098		
71	14.20	33.633	4.19U	0.62	5.	0.06	3.6	286.2	50	16.25	33.812	5.74	24.797	316.1	0.162		
86	12.21	33.597	4.39	1.05	10.	0.01	10.6	250.9	75	13.61	33.611	4.91	25.215	276.3	0.237		
101	11.84	33.695	3.88	1.27		0.00	14.1	237.1	100	11.86	33.694	3.91	25.621	237.7	0.302		
132	11.24	33.993	2.58	1.85	23.	0.00	21.4	204.6	125	11.37	33.929	2.85	25.894	211.7	0.358		
157	10.64	34.116	2.22	2.09	28.	0.00	23.2	185.3	150	10.80	34.088	2.30	26.122	190.1	0.410		
182	10.40	34.240	1.67	2.26	32.	0.00	25.6	172.1	200	10.16	34.287	1.47	26.388	164.8	0.500		
218	9.91	34.316	1.34	2.48	37.	0.00	26.6	158.5	250	9.58	34.372	0.96	26.551	149.3	0.581		
284	9.26	34.409	0.58	2.77	44.	0.00	28.1	141.4	300	9.06	34.409	0.48	26.666	138.4	0.656		
385	8.04	34.377	0.24	2.96	54.	0.00	31.6	125.7	400	7.92	34.381	0.24	26.821	123.7	0.793		
486	7.31	34.405	0.26	3.14	65.	0.00	33.9	113.5	500	7.20	34.407	0.26	26.944	112.0	0.918		
622	6.30	34.411	0.31	3.34	77.	0.00	39.2	100.0	600	6.46	34.412	0.30	27.049	102.0	1.034		
776	5.29	34.428	0.41	3.24	94.	0.00	36.3	86.8	700	5.76	34.420	0.35	27.145	92.9	1.140		
924	4.56	34.443	0.60	3.33	108.	0.00	39.5	77.7	800	5.16	34.431	0.44	27.227	85.2	1.238		
1133	3.83	34.488	0.60	3.29	122.	0.00	39.9	67.0	1000	4.25	34.457	0.60	27.350	73.6	1.416		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							133025
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
26 04.5N		112 48.0W		3/10/72		2357 GMT			84M	280	15KT	0	310 2 4				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	17.46	34.04								17.46	34.04		24.689	326.4	0.000		
10	17.26	34.08								17.26	34.08		24.767	318.9	0.032		
20	16.96	34.04								16.96	34.04		24.808	315.0	0.064		
30	15.47	34.00								15.47	34.00		25.118	285.5	0.094		
50	13.98	34.17								13.98	34.17		25.570	242.5	0.147		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							133030
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
25 55.0N		113 07.5W		3/11/72		0225 GMT			223M	300	15KT	0	310 3 6				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	18.52	34.26								18.52	34.26		24.597	335.1	0.000		
10	18.53	34.28								18.53	34.28		24.610	333.9	0.033		
20	18.48	34.30								18.48	34.30		24.638	331.2	0.067		
30	17.29	34.09								17.29	34.09		24.768	318.8	0.099		
50	15.49	33.92								15.49	33.92		25.052	291.8	0.161		
75	13.29	34.10								13.29	34.10		25.658	234.2	0.227		
100	12.54	34.25								12.54	34.25		25.923	209.0	0.283		
125	12.03	34.35								12.03	34.35		26.099	192.3	0.334		
150	11.76	34.53								11.76	34.53		26.289	174.2	0.380		
200	11.14	34.62								11.14	34.62		26.474	156.6	0.465		

RV ALEXANDER AGASSIZ										CALCOFI CRUISE 7203							133040
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
25 34.0N		113 46.0W		3/11/72		0813 GMT			1763M	310	13KT	0	310 3 6				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	18.24	34.25								18.24	34.25		24.659	329.2	0.000		
10	18.25	34.26								18.25	34.26		24.664	328.7	0.033		
20	18.25	34.26								18.25	34.26		24.664	328.7	0.066		
30	18.23	34.25								18.23	34.25		24.662	328.9	0.099		
50	16.03	33.95								16.03	33.95		24.954	301.1	0.162		
75	13.09	33.65								13.09	33.65		25.351	265.4	0.233		
100	11.73	33.95								11.73	33.95		25.845	216.3	0.294		
125	11.46	34.11								11.46	34.11		26.019	199.8	0.346		
150	11.14	34.31								11.14	34.31		26.233	179.5	0.394		
200	11.10	34.55								11.10	34.55		26.427	161.1	0.482		
250	10.29	34.52								10.29	34.52		26.547	149.6	0.562		
300	9.81	34.54								9.81	34.54		26.645	140.4	0.637		
400	8.86	34.54								8.86	34.54		26.801	125.6	0.777		
500	7.57	34.49								7.57	34.49		26.958	110.7	0.903		
600	6.66	34.46								6.66	34.46		27.061	100.9	1.018		
700	5.79	34.44								5.79	34.44		27.159	91.7	1.123		
800	5.19	34.45								5.19	34.45		27.239	84.0	1.220		
1000	4.36	34.50								4.36	34.50		27.373	71.4	1.395		

A) THE SALINITY VALUES FOR THIS HANSEN BOTTLE CAST APPEAR TO BE APPROXIMATELY 0.05 PPT LOW. STANDARD HANDLING PROCEDURES WERE USED ON THE SAMPLES AND NO ERROR IN PROCESSING DETERMINED.

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

133050

LATITUDE 25 12.5N			LONGITUDE 114 25.0W			MO/DAY/YR 3/11/72			MESSENGER TIME 1334 GMT			BOTTOM 3786M			WIND 320			SPEED 10KT			WEATHER 0			DOMINANT WAVES		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD											
0	16.14	33.74							0	16.14	33.74		24.768	318.8	0.000											
10	16.14	33.74							10	16.14	33.74		24.768	318.8	0.032											
20	16.13	33.75							20	16.13	33.75		24.778	317.9	0.064											
30	16.07	33.75							30	16.07	33.75		24.792	316.6	0.096											
50	15.56	33.69							50	15.56	33.69		24.860	310.0	0.158											
75	13.13	33.58							75	13.13	33.58		25.289	269.3	0.231											
100	11.68	33.74							100	11.68	33.74		25.692	230.9	0.294											
125	11.99	34.27							125	11.99	34.27		26.044	197.4	0.349											
150	11.76	34.40							150	11.76	34.40		26.188	183.7	0.397											
200	11.20	34.57							200	11.20	34.57		26.424	161.3	0.485											
250	10.42	34.55							250	10.42	34.55		26.548	149.6	0.566											
300	9.99	34.55							300	9.99	34.55		26.622	142.5	0.642											
400	8.31	34.45							400	8.31	34.45		26.816	124.1	0.782											
500	7.31	34.45							500	7.31	34.45		26.964	110.2	0.907											
600	6.29	34.43							600	6.29	34.43		27.087	98.5	1.019											
700	5.64	34.45							700	5.64	34.45		27.185	89.2	1.122											
800	4.99	34.46							800	4.99	34.46		27.271	81.1	1.216											
1000	4.25	34.50							1000	4.25	34.50		27.385	70.3	1.386											

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

133060

LATITUDE 24 52.0N			LONGITUDE 115 02.5W			MO/DAY/YR 3/11/72			MESSENGER TIME 1820 GMT			BOTTOM 3854M			WIND 330			SPEED 14KT			WEATHER 1			DOMINANT WAVES 350 4 7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD											
0	19.47	34.36							0	19.47	34.36		24.432	350.8	0.000											
10	19.46	34.37							10	19.46	34.37		24.442	349.8	0.035											
20	19.33	34.35							20	19.33	34.35		24.461	348.1	0.070											
30	18.93	34.26							30	18.93	34.26		24.494	344.9	0.105											
50	17.62	34.04							50	17.62	34.04		24.650	330.0	0.172											
75	13.88	33.67							75	13.88	33.67		25.206	277.2	0.249											
100	11.98	33.75							100	11.98	33.75		25.644	235.5	0.313											
125	11.15	34.03							125	11.15	34.03		26.014	200.3	0.369											
150	11.04	34.25							150	11.04	34.25		26.205	182.2	0.417											
200	10.40	34.39							200	10.40	34.39		26.427	161.1	0.505											
250	10.13	34.51							250	10.13	34.51		26.567	147.7	0.585											
300	9.67	34.52							300	9.67	34.52		26.653	139.6	0.659											
400	8.45	34.48							400	8.45	34.48		26.818	124.0	0.798											
500	7.26	34.44							500	7.26	34.44		26.963	110.2	0.923											
600	6.38	34.45							600	6.38	34.45		27.091	98.1	1.035											
700	5.73	34.46							700	5.73	34.46		27.182	89.5	1.138											
800	5.18	34.47							800	5.18	34.47		27.256	82.4	1.233											
1000	4.31	34.50							1000	4.31	34.50		27.378	70.9	1.405											

RV ALEXANDER AGASSIZ

CALCOFI CRUISE 7203

133060

LATITUDE 24 52.0N			LONGITUDE 115 02.5W			MO/DAY/YR 3/11/72			MESSENGER TIME 1949 GMT			BOTTOM 3854M			WIND 330			SPEED 14KT			WEATHER 1			DOMINANT WAVES 350 4 7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD											
0	19.48	34.373	5.09	0.38	2.	0.00	0.0	350.1	0	19.48	34.373	5.09	24.440	350.1	0.000											
10	19.49	34.368	5.57	0.32	2.	0.00	0.0	350.7	10	19.49	34.368	5.57	24.433	350.7	0.035											
30	19.22	34.309	5.60	0.33	2.	0.00	0.0	348.4	20	19.42	34.360	5.59	24.445	349.5	0.070											
55	18.04	34.117	5.40	0.40	2.	0.00	0.0	334.2	30	19.22	34.309	5.60	24.458	348.4	0.105											
70	15.92	33.908	5.23	0.54	3.	0.11	1.3	301.8	50	18.43	34.170	5.45	24.559	339.5	0.174											
85	14.80	33.792	4.36	0.91	7.	0.14	5.7	286.7	75	15.58	33.873	5.00	24.995	297.2	0.254											
100	12.44	33.629	3.03	0.99	9.	0.04	8.8	252.8	100	12.44	33.629	3.03	25.462	252.8	0.323											
130	11.24	33.983	2.86	1.76	20.	0.00	19.7	205.3	125	11.44	33.949	2.89	25.898	211.4	0.382											
156	10.87	34.176	2.05	2.12	27.	0.00	23.1	184.7	150	10.91	34.140	2.26	26.141	188.3	0.433											
181	10.79	34.321	1.41	2.38	30.	0.00	25.0	172.7	200	10.51	34.377	1.34	26.396	164.0	0.523											
216	10.26	34.407	1.29	2.54	36.	0.00	25.8	157.5	250	10.12	34.497	0.93	26.558	148.7	0.603											
281	10.06	34.557	0.58	2.86	43.	0.00	25.7	143.1	300	9.85	34.557	0.55	26.651	139.8	0.678											
382	8.70	34.888	0.43	3.00	52.	0.00	25.1	127.1	400	8.46	34.478	0.40	26.814	124.3	0.817											
483	7.44	34.444	0.28	3.15	65.	0.00	38.0	112.4	500	7.25	34.442	0.26	26.965	110.0	0.942											
618	6.15	34.447	0.19	3.33	80.	0.00	40.2	95.5	600	6.30	34.445	0.19	27.097	97.5	1.054											
772	5.23	34.472	0.33	3.43	94.	0.00	39.7	82.8	700	5.61	34.460	0.26	27.196	88.1	1.156											
919	4.53	34.494	0.35	3.47	108.	0.00	41.8	73.6	800	5.08	34.477	0.33	27.273	80.9	1.249											
1128	3.85	34.530	0.63	3.42	125.	0.00	41.8	64.1	1000	4.22	34.509	0.42	27.394	69.4	1.418											

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						137060								
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
24 21.5N		114 37.5W		3/ 9/72		1854 GMT				3779M		330		11KT		1		330 3 6		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD					
0	19.42	34.37							0	19.42	34.37		24.453	348.8	0.000					
10	19.41	34.37							10	19.41	34.37		24.455	348.6	0.035					
20	19.41	34.37							20	19.41	34.37		24.455	348.6	0.070					
30	19.41	34.37							30	19.41	34.37		24.455	348.6	0.105					
50	18.85	34.27							50	18.85	34.27		24.522	342.2	0.174					
75	18.26	34.25							75	18.26	34.25		24.654	329.6	0.259					
100	13.49	33.70							100	13.49	33.70		25.309	267.4	0.334					
125	12.06	34.01							125	12.06	34.01		25.830	217.8	0.395					
150	11.86	34.34							150	11.86	34.34		26.123	189.9	0.447					
200	10.86	34.43							200	10.86	34.43		26.377	165.8	0.538					
250	10.31	34.52							250	10.31	34.52		26.544	150.0	0.619					
300	9.80	34.53							300	9.80	34.53		26.639	140.9	0.695					
400	8.74	34.53							400	8.74	34.53		26.812	124.5	0.835					
500	7.37	34.48							500	7.37	34.48		26.979	108.7	0.959					
600	6.63	34.48							600	6.63	34.48		27.081	99.0	1.072					
700	5.83	34.47							700	5.83	34.47		27.177	89.9	1.175					
800	5.24	34.48							800	5.24	34.48		27.257	82.3	1.271					
1000	4.37	34.51							1000	4.37	34.51		27.380	70.7	1.443					

RV ALEXANDER AGASSIZ						CALCOFI CRUISE 7203						137060								
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
24 21.5N		114 37.5W		3/ 9/72		2029 GMT				3779M		330		11KT		1		330 3 6		
Z	T	S	O2	PO4	SI03	NO2	NO3	DT	Z	T	S	O2	SI6T	DT	DD					
0	19.43	34.367		0.25	2.	0.00	0.0	349.3	0	19.43	34.367		24.448	349.3	0.000					
10	19.43	34.361		0.31	2.	0.00	0.0	349.7	10	19.43	34.361		24.445	349.7	0.035					
30	19.36	34.361		0.38	3.	0.00	0.1	348.0	20	19.40	34.362		24.452	348.9	0.070					
55	18.67	34.255		0.35	2.	0.00	0.0	339.0	30	19.36	34.361		24.461	348.0	0.105					
70	18.24	34.244		0.39	1.	0.00	0.0	329.6	50	18.84	34.277		24.530	341.5	0.174					
85	16.86	34.035		0.43	2.	0.04	0.4	313.2	75	17.94	34.191		24.687	326.5	0.258					
100	13.57	33.813		1.15	10.	0.04	10.7	260.6	100	13.57	33.813		25.380	260.6	0.332					
130	11.80	34.023		1.79	19.	0.00	18.6	212.2	125	11.85	33.970		25.838	217.0	0.393					
155	11.77	34.310		2.29	27.	0.00	22.3	190.5	150	11.78	34.258		26.075	194.6	0.445					
180	11.17	34.411		2.48	32.	0.00	25.9	172.5	200	10.88	34.465		26.401	163.6	0.536					
215	10.71	34.492		2.58	36.	0.00	25.9	158.7	250	10.32	34.525		26.546	149.7	0.617					
281	9.99	34.530		2.80	43.	0.00	27.9	144.0	300	9.80	34.531		26.640	140.9	0.693					
381	8.92	34.510		3.11	51.	0.00	27.7	128.7	400	8.65	34.504		26.805	125.2	0.833					
482	7.52	34.482		3.15	55.	0.01	33.3	110.6	500	7.34	34.479		26.982	108.4	0.957					
618	6.39	34.463		3.24	77.	0.00	40.2	97.3	600	6.51	34.466		27.086	98.6	1.069					
772	5.35	34.464		3.33	92.	0.00	38.1	84.8	700	5.80	34.460		27.173	90.3	1.173					
920	4.67	34.499		3.42	105.	0.00	39.1	74.7	800	5.20	34.470		27.253	82.7	1.269					
1132	3.98	34.536		3.40	120.	0.00	39.8	64.9	1000	4.37	34.516		27.384	70.3	1.441					

				Z	T	S	O2	DT
60.050	03/04/72	0310GMT	37 57.5N	122 53.0W	10	10.54	33.304	6.01 243.6
		BOTTOM	47M	WIND 300				10KT WEATHER 4
								DOMINANT WAVES
60.055	03/04/72	0633GMT	37 46.0N	123 15.5W	10	10.81	33.176	6.64 257.6
		BOTTOM	93M	WIND 330				10KT WEATHER 4
								DOMINANT WAVES
60.065	03/04/72	1255GMT	37 25.5N	123 58.5W	10	11.46	33.073	6.57 276.3
		BOTTOM	3872M	WIND 310				11KT WEATHER 4
								DOMINANT WAVES
60.070	03/04/72	1535GMT	37 14.5N	124 21.5W	10	11.94	32.843	5.99 301.6
		BOTTOM	4111M	WIND 340				13KT WEATHER 4
								DOMINANT WAVES 340 12 05
60.090	03/05/72	0203GMT	36 37.0N	125 47.0W	10	12.36	32.864	6.42 307.6
		BOTTOM	4684M	WIND 360				10KT WEATHER 4
								DOMINANT WAVES 340 12 09
63.050	03/06/72	0540GMT	37 23.0N	122 28.0W	10	10.78	33.331	5.18 245.6
		BOTTOM	30M	WIND 330				12KT WEATHER
								DOMINANT WAVES
63.055	03/06/72	0215GMT	37 13.0N	122 50.0W	10	11.82	33.242	6.50 270.1
		BOTTOM	259M	WIND 330				18KT WEATHER 4
								DOMINANT WAVES 330 07 07
63.065	03/05/72	1935GMT	36 53.0N	123 33.0W	10	11.62	33.188	6.86 270.6
		BOTTOM	3541M	WIND 340				13KT WEATHER 1
								DOMINANT WAVES 340 08 06
63.070	03/05/72	1703GMT	36 42.5N	123 55.0W	10	11.80	32.768	6.46 304.7
		BOTTOM	4111M	WIND 350				15KT WEATHER 1
								DOMINANT WAVES 350 07 05
63.080	03/05/72	1202GMT	36 23.0N	124 38.5W	10	12.30	32.774	6.34 313.2
		BOTTOM	4111M	WIND 360				18KT WEATHER
								DOMINANT WAVES
63.090	03/05/72	0700GMT	36 03.0N	125 20.0W	10	12.80	32.934	6.43 310.6
		BOTTOM	4140M	WIND 350				12KT WEATHER 4
								DOMINANT WAVES
67.048	03/06/72	0955GMT	36 53.0N	121 56.0W	10	11.02	33.482	6.25 238.5
		BOTTOM	41M	WIND 310				02KT WEATHER
								DOMINANT WAVES
67.055	03/06/72	1525GMT	36 39.0N	122 26.0W	10	11.68	33.283	6.94 264.6
		BOTTOM	2130M	WIND 310				17KT WEATHER 2
								DOMINANT WAVES 310 07 06
67.065	03/06/72	2141GMT	36 18.0N	123 09.0W	10	12.20	33.093	6.50 287.9
		BOTTOM	3259M	WIND 340				16KT WEATHER 0
								DOMINANT WAVES 320 06 06
67.070	03/07/72	0046GMT	36 08.0N	123 29.5W	10	12.14	33.222	6.42 277.3
		BOTTOM	3674M	WIND 350				19KT WEATHER 0
								DOMINANT WAVES 340 06 06
67.080	03/07/72	0530GMT	35 48.0N	124 12.0W	10	12.87	32.940	6.14 311.4
		BOTTOM	4111M	WIND 340				17KT WEATHER
								DOMINANT WAVES
67.090	03/07/72	1020GMT	35 28.0N	124 55.0W	10	13.11	32.953	6.16 315.0
		BOTTOM	4309M	WIND 010				15KT WEATHER
								DOMINANT WAVES
70.051	03/08/72	1450GMT	36 10.5N	121 45.5W	10	10.76	33.585	5.43 226.5
		BOTTOM	408M	WIND 130				13KT WEATHER 2
								DOMINANT WAVES 130 03 06
70.065	03/08/72	0503GMT	35 43.0N	122 45.0W	10	12.28	33.329	6.29 271.9
		BOTTOM	1664M	WIND 100				07KT WEATHER
								DOMINANT WAVES
70.070	03/08/72	0225GMT	35 33.0N	123 06.0W	10	12.28	33.093	6.31 289.3
		BOTTOM	3844M	WIND 210				08KT WEATHER 2
								DOMINANT WAVES 210 04 06
70.090	03/07/72	1535GMT	34 53.0N	124 29.0W	10	13.02	32.932	6.15 314.8
		BOTTOM	4117M	WIND 010				06KT WEATHER 4
								DOMINANT WAVES 010 05 04
73.050	03/08/72	1925GMT	35 37.0N	121 17.0W	10	10.51	33.707	4.98 213.3
		BOTTOM	97M	WIND 140				03KT WEATHER
								DOMINANT WAVES 140 02 05
73.065	03/09/72	0530GMT	35 08.0N	122 19.0W	10	12.85	33.324	6.29 282.8
		BOTTOM	3919M	WIND 140				07KT WEATHER
								DOMINANT WAVES

					Z	T	S	02	DT
73.070	03/09/72	0848GMT	34 56.0N	122 40.0W	10	12.78	33.311	6.37	282.5
		POTOM	4111M	WIND 150 05KT					
		DOMINANT WAVES							
73.080	03/09/72	1349GMT	34 38.0N	123 22.0W	10	12.20	32.846	6.36	306.1
		POTOM	4309M	WIND 140 10KT					
		DOMINANT WAVES							
73.090	03/09/72	1830GMT	34 18.0N	124 04.0W	10	12.90	32.931	6.42	312.6
		POTOM	3169M	WIND 200 15KT					
		DOMINANT WAVES	200 05 05						
77.048	03/10/72	2159GMT	35 06.0N	120 47.5W	10	12.30	33.465	6.43	262.3
		POTOM	71M	WIND 300 15KT					
		DOMINANT WAVES	290 08 09						
77.055	03/10/72	1804GMT	34 54.5N	121 13.0W	10		33.326	6.30	
		POTOM	1064M	WIND 300 08KT					
		DOMINANT WAVES	290 08 10						
77.065	03/10/72	1144GMT	34 34.0N	121 55.0W	10	12.96	33.319	6.33	285.2
		POTOM	3825M	WIND 180 03KT					
		DOMINANT WAVES							
77.070	03/10/72	0925GMT	34 24.0N	122 15.0W	10	12.84	33.462	6.53	272.5
		POTOM	4111M	WIND 170 04KT					
		DOMINANT WAVES							
77.080	03/10/72	0420GMT	34 04.0N	122 57.0W	10	12.42	32.816	6.31	312.3
		POTOM	4309M	WIND 170 08KT					
		DOMINANT WAVES							
77.090	03/09/72	2328GMT	33 43.0N	123 39.0W	10	12.71	32.860	6.26	314.3
		POTOM	4309M	WIND 150 12KT					
		DOMINANT WAVES	200 06 05						
80.051	03/15/72	1730GMT	34 26.0N	120 32.0W	10	12.76	33.593	6.01	261.4
		POTOM	112M	WIND 120 09KT					
		DOMINANT WAVES	330 06 09						
80.055	03/15/72	1402GMT	34 19.0N	120 48.0W	10	11.97	33.590	5.40	247.1
		POTOM	778M	WIND 150 02KT					
		DOMINANT WAVES							
80.070	03/13/72	0512GMT	33 49.0N	121 53.0W	10	12.63	33.333	6.35	278.1
		POTOM	3926M	WIND 330 16KT					
		DOMINANT WAVES							
80.090	03/13/72	2028GMT	33 14.0N	123 13.0W	10	12.91	33.176	6.42	294.8
		POTOM	4499M	WIND 350 17KT					
		DOMINANT WAVES	350 08 08						
83.040	03/16/72	0843GMT	34 14.0N	119 22.0W	10	13.68	33.478	6.57	287.3
		POTOM	22M	WIND 120 02KT					
		DOMINANT WAVES							
83.051	03/16/72	1338GMT	33 52.0N	120 05.5W	10	13.48	33.494	6.24	282.3
		POTOM	136M	WIND 00KT					
		DOMINANT WAVES							
83.055	03/16/72	1619GMT	33 44.0N	120 24.5W	10	12.04	33.449	6.03	258.8
		POTOM	962M	WIND 330 02KT					
		DOMINANT WAVES	280 03 08						
83.070	03/14/72	1158GMT	33 14.5N	121 26.0W	10	13.41	33.284	6.29	296.4
		POTOM	3926M	WIND 330 28KT					
		DOMINANT WAVES							
83.080	03/14/72	0642GMT	32 54.0N	122 08.0W	10	12.80	33.177	6.21	292.7
		POTOM	4117M	WIND 330 18KT					
		DOMINANT WAVES							
83.090	03/14/72	0138GMT	32 34.5N	122 50.0W	10	12.86	33.015	6.42	305.7
		POTOM	4213M	WIND 340 20KT					
		DOMINANT WAVES	350 07 04						
87.033	03/18/72	1316GMT	33 54.0N	118 29.5W	10	14.08	33.458	6.17	296.7
		POTOM	47M	WIND 130 01KT					
		DOMINANT WAVES							
87.035	03/18/72	1200GMT	33 49.5N	118 37.5W	10	14.42	33.470	6.22	302.6
		POTOM	648M	WIND 130 04KT					
		DOMINANT WAVES							
87.040	03/18/72	0900GMT	33 39.5N	118 59.0W	10	14.70	33.490	6.49	306.8
		POTOM	815M	WIND 260 05KT					
		DOMINANT WAVES							
87.045	03/18/72	0623GMT	33 30.0N	119 19.0W	10	12.88	33.541	6.29	267.4
		POTOM	1692M	WIND 340 03KT					
		DOMINANT WAVES							

						Z	T	S	O2	DT
87.050	03/18/72	0336GMT	33 20.0N	119 39.5W		10	12.50	33.452	6.11	266.9
		BOTTOM	75M	WIND 320 05KT	WEATHER					
				DOMINANT WAVES						
87.055	03/18/72	0044GMT	33 10.0N	120 00.0W		10	13.26	33.235	6.17	297.1
		BOTTOM	1202M	WIND 300 11KT	WEATHER 2					
				DOMINANT WAVES 280 03 04						
87.070	03/17/72	1730GMT	32 39.5N	121 02.0W		10	14.15	33.281	6.00	311.0
		BOTTOM	4117M	WIND 290 10KT	WEATHER 2					
				DOMINANT WAVES 360 03 08						
87.080	03/17/72	1245GMT	32 19.5N	121 43.0W		10	13.48	33.015	6.11	317.5
		BOTTOM	4309M	WIND 340 04KT	WEATHER 4					
				DOMINANT WAVES						
87.090	03/17/72	0814GMT	31 59.0N	122 24.0W		10	14.52	33.385	5.99	310.8
		BOTTOM	4117M	WIND 360 07KT	WEATHER 4					
				DOMINANT WAVES						
90.028	03/18/72	1737GMT	33 28.5N	117 46.5W		10	14.38	33.466	6.43	302.1
		BOTTOM	464M	WIND 100 06KT	WEATHER 2					
				DOMINANT WAVES 49						
90.032	03/18/72	2000GMT	33 20.5N	118 03.0W		10	14.44	33.468	6.31	303.1
		BOTTOM	796M	WIND 100 03KT	WEATHER 2					
				DOMINANT WAVES 49						
90.045	03/19/72	0913GMT	32 55.0N	118 50.0W		10	13.74	33.450	6.13	290.6
		BOTTOM	1664M	WIND 180 07KT	WEATHER					
				DOMINANT WAVES						
90.053	03/19/72	1326GMT	32 40.0N	119 28.5W		10	13.08	33.442	6.25	278.5
		BOTTOM	1332M	WIND 020 07KT	WEATHER					
				DOMINANT WAVES						
90.070	03/19/72	2254GMT	32 04.5N	120 38.5W		10	14.23	33.272	5.96	313.3
		BOTTOM	3738M	WIND 350 15KT	WEATHER 0					
				DOMINANT WAVES 330 12 07						
90.090	03/20/72	0937GMT	31 24.0N	122 01.0W		10	14.38	33.382	6.00	308.2
		BOTTOM	3926M	WIND 350 13KT	WEATHER					
				DOMINANT WAVES						
93.027	03/22/72	0035GMT	32 55.5N	117 19.0W		10	14.74	33.476	6.72	308.6
		BOTTOM	147M	WIND 300 09KT	WEATHER 0					
				DOMINANT WAVES 230 03 06						
93.028	03/21/72	2340GMT	32 55.0N	117 22.0W		10	14.60	33.481	6.48	305.4
		BOTTOM	556M	WIND 310 07KT	WEATHER 0					
				DOMINANT WAVES 310 03 06						
93.030	03/21/72	2143GMT	32 50.5N	117 31.0W		10	14.78	33.469	6.08	310.0
		BOTTOM	851M	WIND 300 08KT	WEATHER 0					
				DOMINANT WAVES 320 02 05						
93.035	03/21/72	1909GMT	32 41.0N	117 51.0W		10	14.66			
		BOTTOM	648M	WIND 340 03KT	WEATHER 1					
				DOMINANT WAVES 260 02 05						
93.040	03/21/72	1647GMT	32 30.0N	118 12.0W		10	14.17	33.469	6.15	297.7
		BOTTOM	1757M	WIND 050 03KT	WEATHER 1					
				DOMINANT WAVES 310 02 10						
93.045	03/21/72	1348GMT	32 20.0N	118 32.0W		10	14.48	33.485	6.04	302.7
		BOTTOM	602M	WIND 060 01KT	WEATHER 2					
				DOMINANT WAVES 310 04 06						
93.050	03/21/72	1118GMT	32 10.0N	118 52.5W		10	14.73	33.500	5.92	306.7
		BOTTOM	1479M	WIND 110 02KT	WEATHER					
				DOMINANT WAVES						
93.055	03/21/72	0835GMT	32 01.0N	119 12.0W		10	14.41	33.458	5.98	303.3
		BOTTOM	1577M	WIND 090 02KT	WEATHER					
				DOMINANT WAVES						
93.070	03/21/72	0021GMT	31 30.0N	120 14.0W		10	15.14	33.578	6.02	309.4
		BOTTOM	3926M	WIND 150 01KT	WEATHER 2					
				DOMINANT WAVES 340 06 07						
93.080	03/20/72	1945GMT	31 10.0N	120 54.5W		10	14.17	33.429	6.05	300.6
		BOTTOM	3738M	WIND 050 06KT	WEATHER 2					
				DOMINANT WAVES 290 08 10						
93.090	03/20/72	1425GMT	30 50.0N	121 34.5W		10	13.77	33.322	6.12	300.5
		BOTTOM	4215M	WIND 350 15KT	WEATHER 2					
				DOMINANT WAVES 340 10 07						

						Z	T	S	02	DT
97.029	03/07/72	0545GMT	32 17.0N	117 05.0W		10	12.47	33.540		259.9
		BOTTOM	56M	WIND 020	06KT WEATHER 0					
			DOMINANT WAVES							
97.030	03/07/72	0630GMT	32 16.5N	117 06.5W		10	12.96	33.524		270.2
		BOTTOM	56M	WIND 330	06KT WEATHER 0					
			DOMINANT WAVES							
97.032	03/07/72	0750GMT	32 12.0N	117 15.0W		10	14.11	33.488		295.1
		BOTTOM	1372M	WIND 040	01KT WEATHER 0					
			DOMINANT WAVES 00							
97.035	03/07/72	0949GMT	32 05.0N	117 28.0W		10	14.55	33.459		305.6
		BOTTOM	1128M	WIND	00KT WEATHER 0					
			DOMINANT WAVES 00							
97.040	03/07/72	1248GMT	31 55.5N	117 47.0W		10	14.62	33.462		307.2
		BOTTOM	1572M	WIND	00KT WEATHER 0					
			DOMINANT WAVES 00							
97.045	03/07/72	1615GMT	31 44.5N	118 08.0W		10	13.96	32.6980		
		BOTTOM	1645M	WIND 240	07KT WEATHER 2					
			DOMINANT WAVES 320 02 08							
97.050	03/07/72	1945GMT	31 33.5N	118 28.5W		10	14.03	33.440		297.0
		BOTTOM	2490M	WIND 260	04KT WEATHER 2					
			DOMINANT WAVES 320 03 08							
97.055	03/07/72	2248GMT	31 25.0N	118 49.0W		10	14.60	33.493		304.5
		BOTTOM	947M	WIND 220	04KT WEATHER 2					
			DOMINANT WAVES 180 03 09							
100.029	03/25/72	1026GMT	31 42.0N	116 44.0W		10	13.76	33.500		287.3
		BOTTOM	223M	WIND 030	03KT WEATHER					
			DOMINANT WAVES							
103.029	03/25/72	0550GMT	31 07.0N	116 22.0W		10	13.29	33.544		275.0
		BOTTOM	37M	WIND 320	03KT WEATHER					
			DOMINANT WAVES							
103.045	03/24/72	1901GMT	30 35.0N	117 24.0W		10	14.38	33.476		301.3
		BOTTOM	2150M	WIND 330	05KT WEATHER 1					
			DOMINANT WAVES 310 06 05							
107.031	03/22/72	0810GMT	30 29.0N	116 08.0W		10	13.82	33.497		288.7
		BOTTOM	47M	WIND 320	15KT WEATHER					
			DOMINANT WAVES							
110.032	03/22/72	0321GMT	29 52.0N	115 48.0W		10	12.82	33.564		264.6
		BOTTOM	26M	WIND 340	18KT WEATHER					
			DOMINANT WAVES							
110.045	03/21/72	1727GMT	29 26.0N	116 39.5W		10	15.26	33.626		308.4
		BOTTOM	1410M	WIND 350	12KT WEATHER 1					
			DOMINANT WAVES 330 01 04							
110.055	03/21/72	1143GMT	29 06.0N	117 19.5W		10	14.98	33.552		308.0
		BOTTOM	3498M	WIND	00KT WEATHER					
			DOMINANT WAVES							
113.029	03/19/72	1156GMT	29 23.5N	115 14.5W		10	13.10	33.735		257.3
		BOTTOM	35M	WIND 320	08KT WEATHER					
			DOMINANT WAVES							
113.030	03/19/72	1243GMT	29 22.0N	115 18.0W		10	13.36	33.723		263.2
		BOTTOM	60M	WIND 320	06KT WEATHER					
			DOMINANT WAVES							
113.035	03/19/72	1525GMT	29 12.0N	115 38.0W		10	13.60	33.520		282.7
		BOTTOM	613M	WIND 330	05KT WEATHER 2					
			DOMINANT WAVES 300 03 05							
113.040	03/19/72	1820GMT	29 02.0N	115 57.0W		10	14.20	33.475		297.8
		BOTTOM	1875M	WIND 330	02KT WEATHER 2					
			DOMINANT WAVES 310 01 06							
113.045	03/19/72	2120GMT	28 49.5N	116 17.0W		10	14.61	33.522		302.6
		BOTTOM	2574M	WIND 260	06KT WEATHER 2					
			DOMINANT WAVES 300 03 06							
113.050	03/19/72	2352GMT	28 41.5N	116 37.0W		10	14.72	33.549		302.9
		BOTTOM	3480M	WIND 290	06KT WEATHER 2					
			DOMINANT WAVES 300 04 06							
117.025	03/18/72	0809GMT	28 57.5N	114 38.0W		10	14.44	33.686		287.2
		BOTTOM	65M	WIND 280	08KT WEATHER					
			DOMINANT WAVES							
117.026	03/18/72	0709GMT	28 56.0N	114 42.5W		10	14.70	33.495		306.4
		BOTTOM	75M	WIND 270	08KT WEATHER					
			DOMINANT WAVES							

					Z	T	S	O2	OT
117.030	03/18/72	0444GMT	28 47.5N	114 56.0W	10	14.99	33.713		296.4
		BOTTOM	103M	WIND 300					
				10KT WEATHER					
				DOMINANT WAVES					
117.035	03/18/72	0210GMT	28 38.0N	115 16.0W	10	14.55	33.661		291.2
		BOTTOM	196M	WIND 300					
				11KT WEATHER 2					
				DOMINANT WAVES 300 02 08					
117.040	03/17/72	1847GMT	28 28.0N	115 35.5W	10	13.88	33.455		292.9
		BOTTOM	994M	WIND 330					
				08KT WEATHER 2					
				DOMINANT WAVES 330 02 07					
117.045	03/17/72	1538GMT	28 18.0N	115 56.0W	10	14.38	33.468		301.9
		BOTTOM	4517M	WIND 320					
				10KT WEATHER 2					
				DOMINANT WAVES 330 02 05					
117.050	03/17/72	1227GMT	28 11.5N	116 11.0W	10	14.78	33.533		305.3
		BOTTOM	4536M	WIND 300					
				08KT WEATHER					
				DOMINANT WAVES					
117.070	03/16/72	2300GMT	27 27.0N	117 32.5W	10	15.82	33.662		317.6
		BOTTOM	3775M	WIND 300					
				09KT WEATHER 1					
				DOMINANT WAVES 320 03 10					
117.080	03/16/72	1649GMT	27 05.0N	118 17.0W	10	15.68	33.631		316.9
		BOTTOM	4422M	WIND 310					
				05KT WEATHER 2					
				DOMINANT WAVES 320 02 07					
120.024	03/18/72	1230GMT	28 24.5N	114 11.5W	10	15.15	33.751		297.0
		BOTTOM	32M	WIND 340					
				08KT WEATHER					
				DOMINANT WAVES					
120.025	03/18/72	1321GMT	28 22.5N	114 15.0W	10	15.24	33.755		298.6
		BOTTOM	56M	WIND 300					
				13KT WEATHER					
				DOMINANT WAVES					
120.030	03/18/72	1528GMT	28 13.0N	114 34.0W	10	14.38	33.631		290.0
		BOTTOM	97M	WIND 330					
				10KT WEATHER 2					
				DOMINANT WAVES 320 01 05					
120.035	03/18/72	1755GMT	28 03.0N	114 53.5W	10	15.15	33.725		298.9
		BOTTOM	82M	WIND 340					
				11KT WEATHER 2					
				DOMINANT WAVES 340 01 03					
120.040	03/15/72	1109GMT	27 56.5N	115 16.0W	10	15.32	33.71		303.5
		BOTTOM	39M	WIND 350					
				08KT WEATHER					
				DOMINANT WAVES					
120.050	03/15/72	1910GMT	27 31.5N	115 52.5W	10	15.96	33.761		313.4
		BOTTOM	3983M	WIND 280					
				09KT WEATHER 2					
				DOMINANT WAVES 300 03 09					
120.070	03/16/72	0447GMT	26 52.5N	117 11.0W	10	15.79	33.650		317.9
		BOTTOM	3945M	WIND 290					
				08KT WEATHER					
				DOMINANT WAVES					
123.036	03/14/72	2237GMT	27 26.5N	114 36.5W	10	13.98	33.66		279.9
		BOTTOM	56M	WIND 290					
				12KT WEATHER 1					
				DOMINANT WAVES 290 01 06					
123.045	03/14/72	1502GMT	27 08.0N	115 16.0W	10	15.40	33.72		304.5
		BOTTOM	3832M	WIND 300					
				08KT WEATHER 2					
				DOMINANT WAVES 300 02 04					
123.050	03/14/72	1227GMT	26 57.5N	115 33.5W	10	15.04	33.73		296.2
		BOTTOM	3293M	WIND 320					
				09KT WEATHER					
				DOMINANT WAVES					
127.033	03/13/72	0739GMT	26 57.0N	114 02.5W	10	15.94	33.800		310.1
		BOTTOM	65M	WIND 020					
				18KT WEATHER 1					
				DOMINANT WAVES					
127.045	03/13/72	1605GMT	26 36.0N	114 48.5W	10	15.38	33.69		306.2
		BOTTOM	3169M	WIND 330					
				15KT WEATHER 2					
				DOMINANT WAVES 310 04 08					
127.050	03/13/72	1838GMT	26 22.5N	115 07.5W	10	15.74	33.73		310.9
		BOTTOM	3367M	WIND 310					
				07KT WEATHER 2					
				DOMINANT WAVES 310 04 08					
130.028	03/13/72	0220GMT	26 33.0N	113 21.0W	10	17.44	34.130		319.3
		BOTTOM	60M	WIND 280					
				15KT WEATHER 1					
				DOMINANT WAVES 280 03 05					
130.035	03/12/72	2200GMT	26 20.5N	113 48.0W	10	18.23	34.298		325.5
		BOTTOM	371M	WIND 290					
				13KT WEATHER 1					
				DOMINANT WAVES 320 05 10					
130.050	03/12/72	1150GMT	25 50.5N	114 48.0W	10	15.30	33.670		306.0
		BOTTOM	3661M	WIND 330					
				14KT WEATHER					
				DOMINANT WAVES					

					Z	T	S	OZ	DT
133.023	03/10/72	2229GMT	26 08.5N	112 40.5W	10	17.82	34.314		314.7
	BOTTOM	75M	WIND 290	13KT					
			DOMINANT WAVES	290 02 03					
133.025	03/10/72	2358GMT	26 04.5N	112 48.0W	10	17.36	34.056		322.9
	BOTTOM	84M	WIND 280	15KT					
			DOMINANT WAVES	310 02 04					
133.030	03/11/72	0248GMT	25 55.0N	113 07.5W	10	18.48	34.253		334.6
	BOTTOM	223M	WIND 300	15KT					
			DOMINANT WAVES	310 03 06					
133.035	03/11/72	0530GMT	25 44.0N	113 27.0W	10	19.02	34.379		338.4
	BOTTOM	1086M	WIND 300	12KT					
			DOMINANT WAVES						
133.040	03/11/72	0814GMT	25 54.0N	113 46.0W	10	18.22	34.258		328.1
	BOTTOM	1763M	WIND 310	13KT					
			DOMINANT WAVES						
133.050	03/11/72	1337GMT	25 12.5N	114 25.0W	10	16.11	33.748		317.6
	BOTTOM	3786M	WIND 320	10KT					
			DOMINANT WAVES						
137.022	03/10/72	1755GMT	25 36.0N	112 15.0W	10	18.54	34.35		329.0
	BOTTOM	56M	WIND 230	07KT					
			DOMINANT WAVES	250 03 06					
137.023	03/10/72	1655GMT	25 35.0N	112 19.5W	10	18.64	34.31		334.3
	BOTTOM	75M	WIND 230	06KT					
			DOMINANT WAVES	290 03 06					
137.030	03/10/72	1310GMT	25 22.0N	112 48.5W	10	18.52	34.33		330.0
	BOTTOM	260M	WIND 350	11KT					
			DOMINANT WAVES						
137.035	03/10/72	1035GMT	25 12.0N	113 07.0W	10	18.64	34.34		332.1
	BOTTOM	1040M	WIND 340	11KT					
			DOMINANT WAVES						
137.040	03/10/72	0730GMT	25 01.0N	113 25.0W	10	18.64	34.31		334.3
	BOTTOM	3103M	WIND 320	16KT					
			DOMINANT WAVES						
137.050	03/10/72	0200GMT	24 39.5N	114 01.5W	10	18.78	34.25		342.0
	BOTTOM	3451M	WIND 320	12KT					
			DOMINANT WAVES	350 03 07					