

Wilkes

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 6610
8-27 October 1966

Special Cruise 6611
10-13 November 1966

and

CalCOFI Cruise 6612
2-19 December 1966

SIO Reference 69-2

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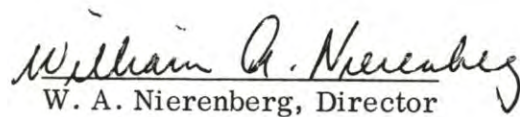
and

CalCOFI Cruise 6612
2-19 December 1966

Sponsored by
Marine Research Committee

SIO Reference 69-2

Approved for distribution:


W. A. Nierenberg, Director

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INTRODUCTION

The data in this report were collected on Cruises 6610 and 6612 of the California Cooperative Fisheries Investigations (CalCOFI) program by the RV David Starr Jordan of the Bureau of Commercial Fisheries and the RV Alexander Agassiz of the Scripps Institution of Oceanography. Data from Special Cruise 6611 by the RV Alexander Agassiz are also included in this report. The first two figures in this cruise-numbering system represent the year of the cruise; the last two figures, the month. The cruises preceding these in the series are 6601, 6602, 6604, 6605 and 6606 all of which appear in SIO Ref. 68-3; and 6607, 6608, 6609 and Special Cruise 6608 all of which appear in SIO Ref. 68-21.

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

TABULATED DATA

On ~~Cruises 6610 and 6612~~ the Nansen-bottle-cast data are tabulated at observed depths; the values at standard depths are computer interpolations according to a modified Rattray technique^{1/}, except that some property values at standard depths have been determined from consideration of other information such as bathythermograph traces and adjacent stations. These property values were entered in the "observed" columns to prevent instabilities or to indicate features not covered by the hydrographic cast. The values are indicated by notations (see FOOTNOTES).

Special Cruise 6611 was for a study of oxygen minimums in Santa Barbara Basin. Standard depth values of temperature and salinity were read from STD recordings.

^{1/}Rattray, Maurice (1962). Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

The data tabulated are of the same type as have previously appeared in these reports; the column headings from the computer are explained as follows:

Z	Depth in meters	
T	Temperature	°C
S	Salinity	‰
OXY	Oxygen	ml/L
PHO	Phosphate	µg at/L
SIL	Silicate	µg at/L
NIT	Nitrite	µg at/L
D*T	δT	cl/ton
SIG*T	σ_t	g/L
DD	ΔD	dyn. m

STANDARD PROCEDURES

Hydrographic Casts

The observed data have been plotted and then evaluated using the method described by Klein.^{2/} This involves consideration of their variation as functions of density or depth and their relation to each other, and comparison with concurrent bathythermograph observations and with previous or adjacent observations. The 125-meter level was introduced into the integration to obtain greater accuracy in the determination of ΔD .

To indicate degree of accuracy, temperatures are recorded in tenths of a degree when obtained by bucket thermometer, thermograph, or bathythermograph, while temperatures from reversing thermometers are recorded in hundredths of a degree. The salinity values obtained by salinometer are recorded to three decimal places, provided they meet accepted standards. The values recorded "have a reproducibility of $\pm 0.004\%$ salinity at the 95 per cent probability level, and a probable accuracy of $\pm 0.01\%$ salinity or better at the same level of probability."^{3/} The values are recorded to two decimal places when only one determination per sample was obtained, or where there is doubt concerning the accuracy of a particular sample, or of all samples on a station. The accuracy of all samples obtained by salinometer and recorded to two decimal places is believed to be equal to or better than those obtained by manual titration.

A hyphen is used to indicate a missing observed value. The time is the time of messenger release. When more than one bottle cast was made on station, messenger times and wire angles are given in order in increasing depth, and a significant change in position during a multiple cast is listed similarly. Multiple casts are indicated by a letter

^{2/}Klein, Hans T. A new technique for processing physical oceanographic data. MS.

^{3/}Quotation from Department of Oceanography, University of Washington, Tech. Rep. No. 66, UW Ref. 60-18, October 1960.

following all observed depths of each cast except the cast originating at the surface.
Footnotes corresponding to each letter explain the type of cast.

On stations where more than one cast was lowered, slight discrepancies in the property values may be noted. These may be caused by changes in geographical position, real changes with time, slight errors in measurement or a combination of these factors. Values at standard depths in the area of these discrepancies may be determined from reconciliation of the plotted observed values and entered in the "observed" columns with notations.

In situ Salinity/Temperature/Depth Recorder

The manufacturer of the STD claims for the temperature an accuracy of $\pm 0.05^{\circ}\text{C}$ on all ranges with repeatability of $\pm 0.01^{\circ}\text{C}$ and for the salinity an accuracy of $\pm 0.03\%$ on all ranges with repeatability of $\pm 0.01\%$. ^{4/} Except for the depth range corresponding to the steepest part of the thermocline, where the salinity trace appears to fluctuate more widely than the bottle samples can confirm, the results of this cruise support the manufacturer's claims.

For Special Cruise 6611 the temperature was accepted without correction, but -0.09% was applied to all salinity values.

FOOTNOTES

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

Values which are not used in interpolation because they seem to be in error without apparent reason are indicated by the following notation.

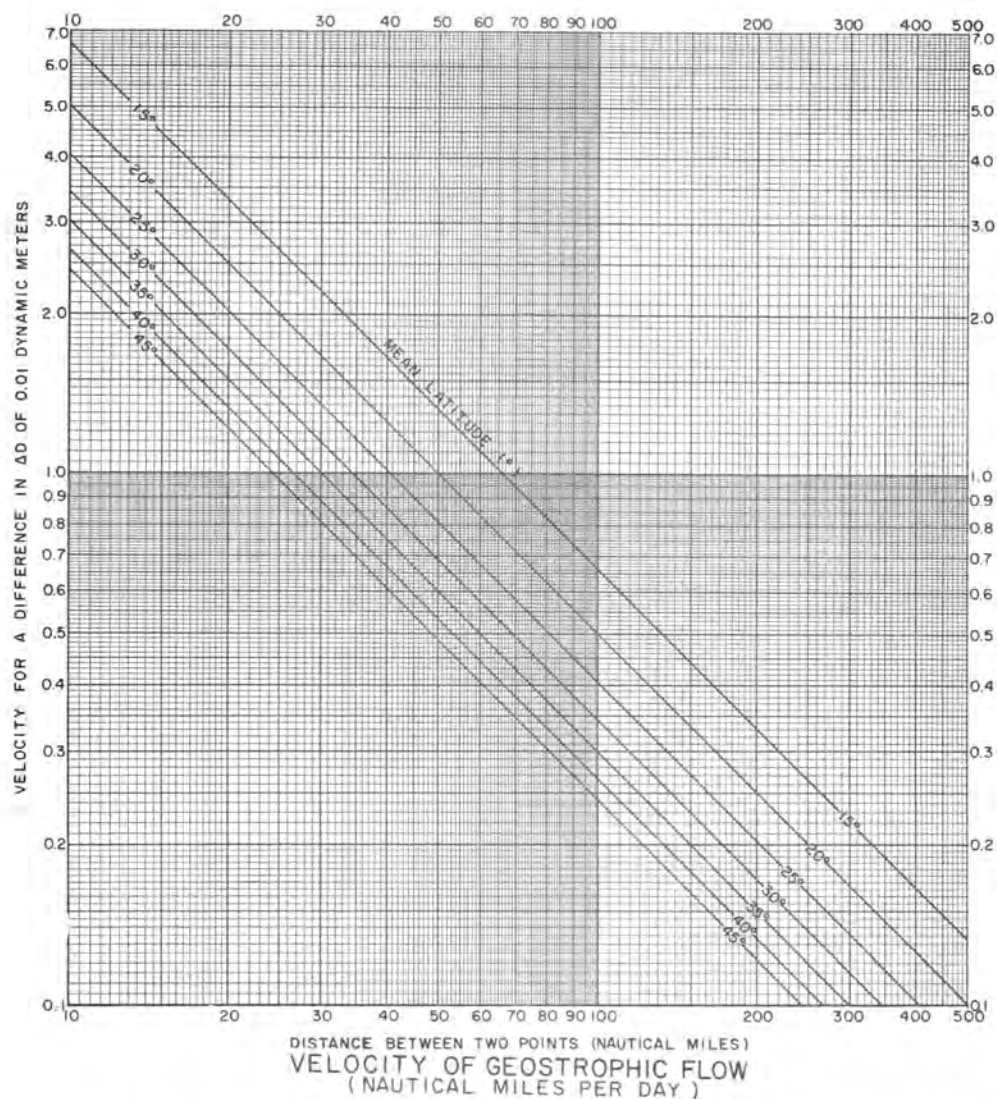
u: uncertain value

Values at standard levels of depth entered in the observed columns to limit machine interpolations may have either of the following notations.

k: a value determined from another measurement such as a bathythermogram or STD recording.

g: a value determined from considerations such as stability or previous or surrounding stations.

^{4/} In situ Salinity/Temperature/Depth Monitoring and Recording System, Model 9006,
Tech. Rep. No. 102, HYTECH Marine Products, The Bissett-Berman Corporation.



cm/sec	0	1	2	3	4	5	6	7	8	9
0	<i>KNOTS</i> NM/DAY 0.02 0.47	0.04 0.93	0.06 1.40	0.08 1.86	0.10 2.33	0.12 2.80	0.14 3.26	0.16 3.73	0.17 4.20	
10	0.19 4.66	0.21 5.13	0.23 5.59	0.25 6.06	0.27 6.53	0.29 6.99	0.31 7.46	0.33 7.93	0.35 8.39	0.37 8.86
20	0.39 9.32	0.41 9.79	0.43 10.26	0.45 10.72	0.47 11.19	0.49 11.66	0.51 12.12	0.52 12.59	0.54 13.05	0.56 13.52
30	0.58 13.99	0.60 14.45	0.62 14.92	0.64 15.38	0.66 15.85	0.68 16.32	0.70 16.78	0.72 17.25	0.74 17.72	0.76 18.18
40	0.78 18.65	0.80 19.11	0.82 19.58	0.84 20.05	0.85 20.51	0.87 20.98	0.89 21.45	0.91 21.91	0.93 22.38	0.95 22.84
50	0.97 23.31	0.99 23.78	1.01 24.24	1.03 24.71	1.05 25.17	1.07 25.64	1.09 26.11	1.11 26.57	1.13 27.04	1.15 27.51
60	1.17 27.98	1.18 28.44	1.20 28.90	1.22 29.37	1.24 29.84	1.26 30.30	1.28 30.77	1.30 31.24	1.32 31.70	1.34 32.17
70	1.36 32.63	1.38 33.10	1.40 33.57	1.42 34.03	1.44 34.50	1.46 34.96	1.48 35.43	1.50 35.90	1.52 36.36	1.53 36.83
80	1.55 37.30	1.57 37.76	1.59 38.23	1.61 38.69	1.63 39.16	1.65 39.63	1.67 40.09	1.69 40.56	1.71 41.03	1.73 41.49
90	1.75 41.96	1.77 42.42	1.79 42.89	1.81 43.36	1.83 43.82	1.85 44.29	1.86 44.76	1.88 45.22	1.90 45.69	1.92 46.15
100	1.94 46.62	1.96 47.09	1.98 47.55	2.00 48.02	2.02 48.48	2.04 48.95	2.06 49.42	2.08 49.88	2.10 50.35	2.12 50.82

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

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

FIGURES
Cruise 6612

1. CalCOFI Cruise 6612, 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

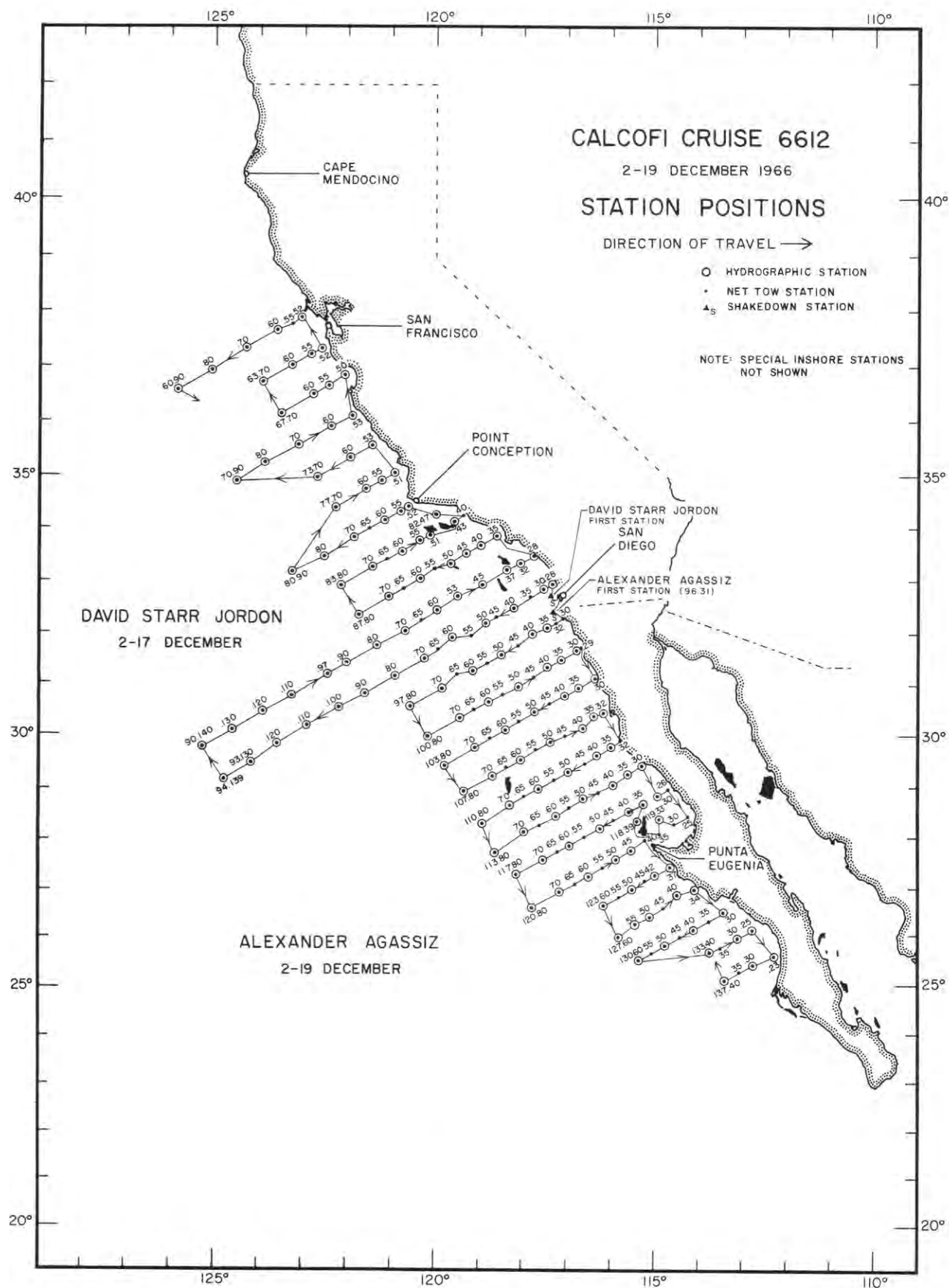


FIGURE 1

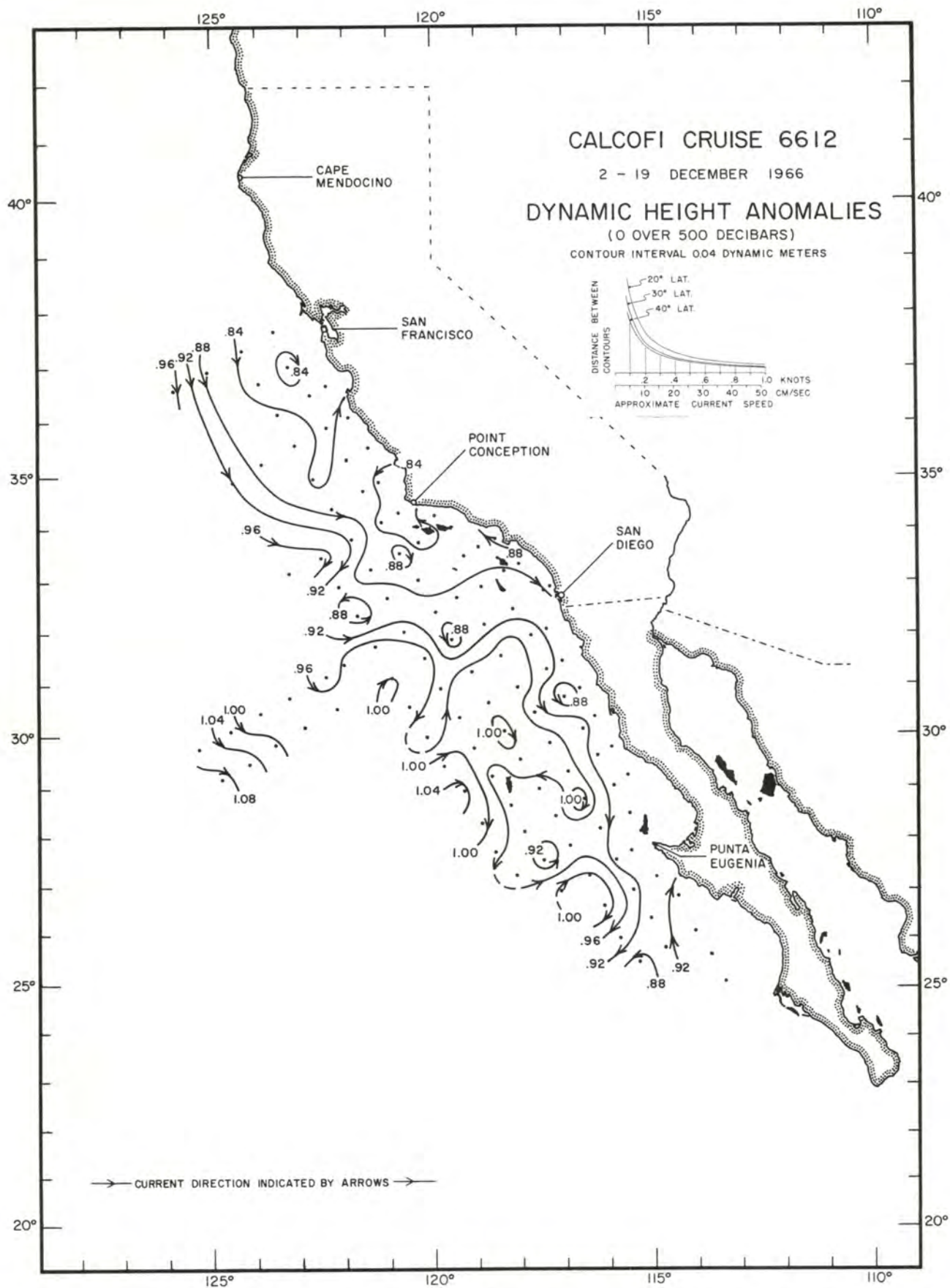


FIGURE 2

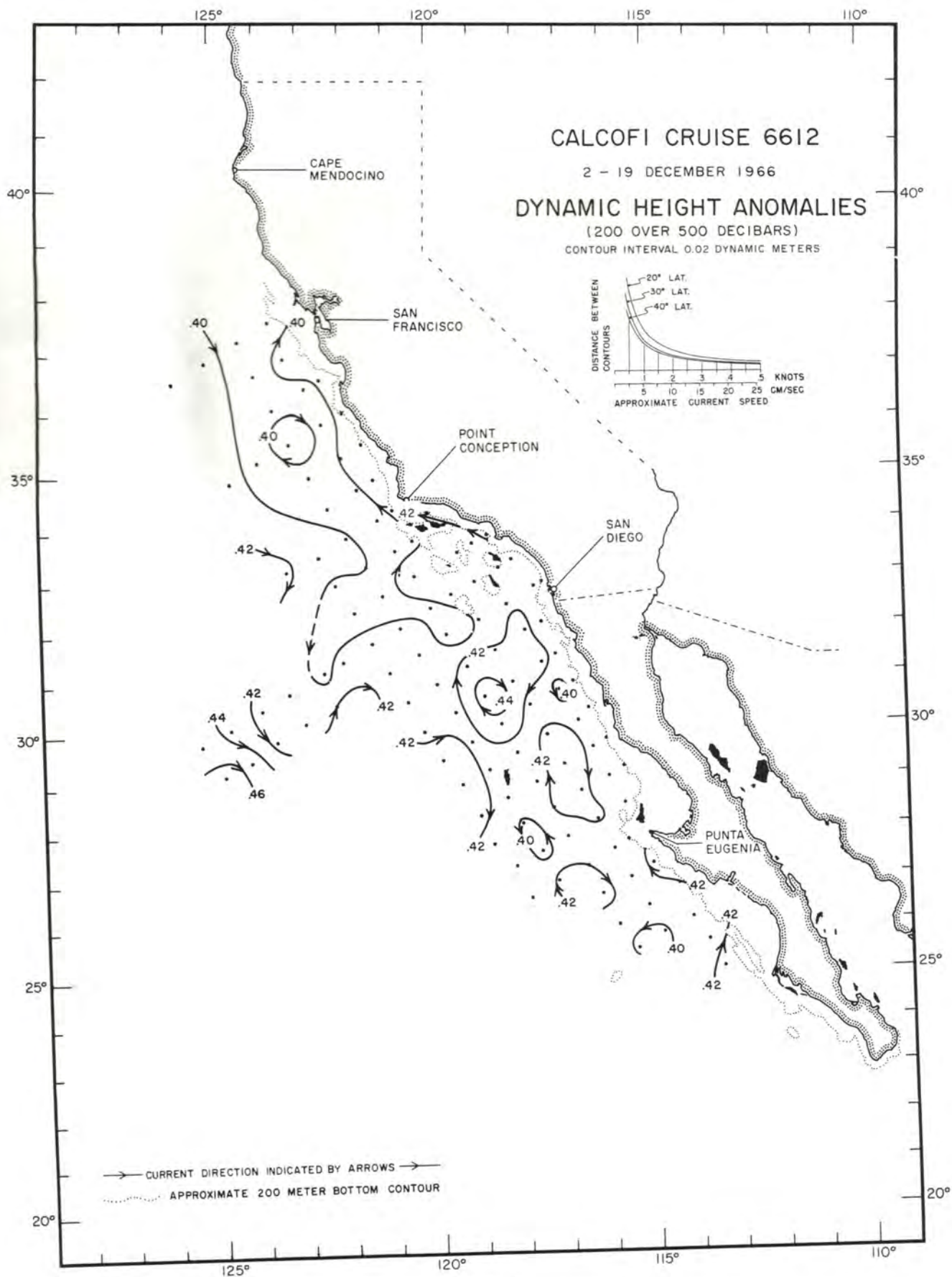
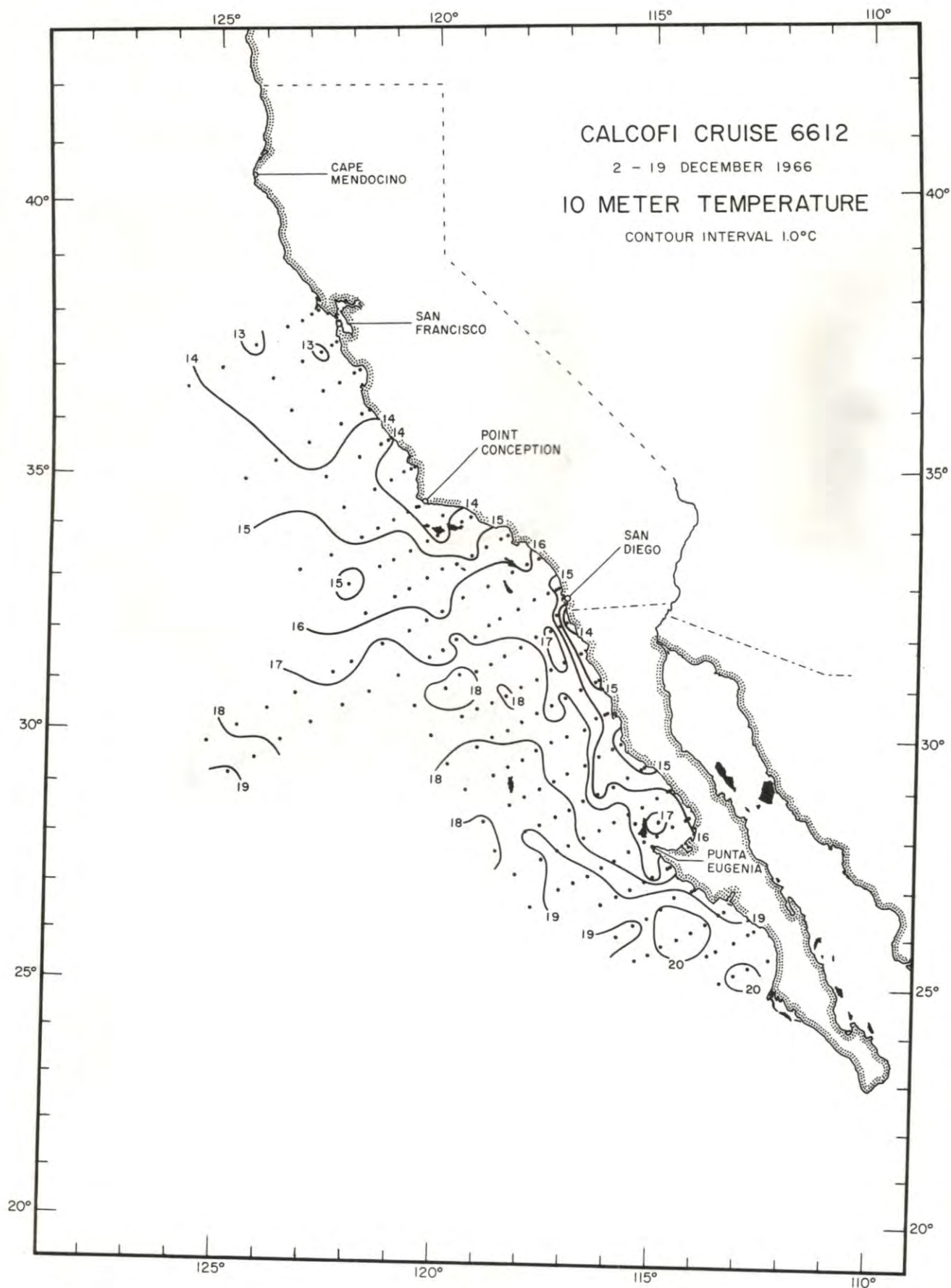


FIGURE 3



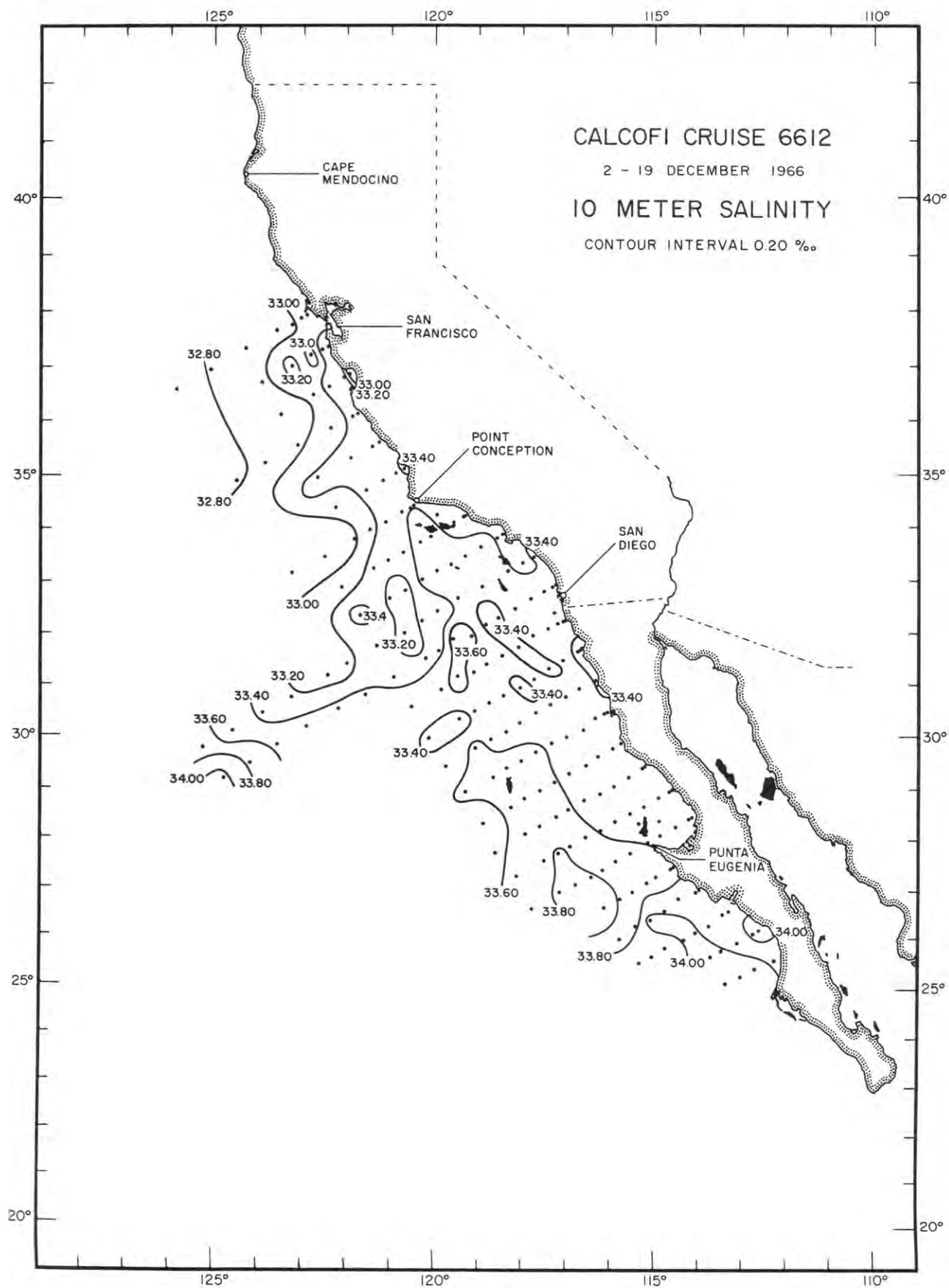


FIGURE 5

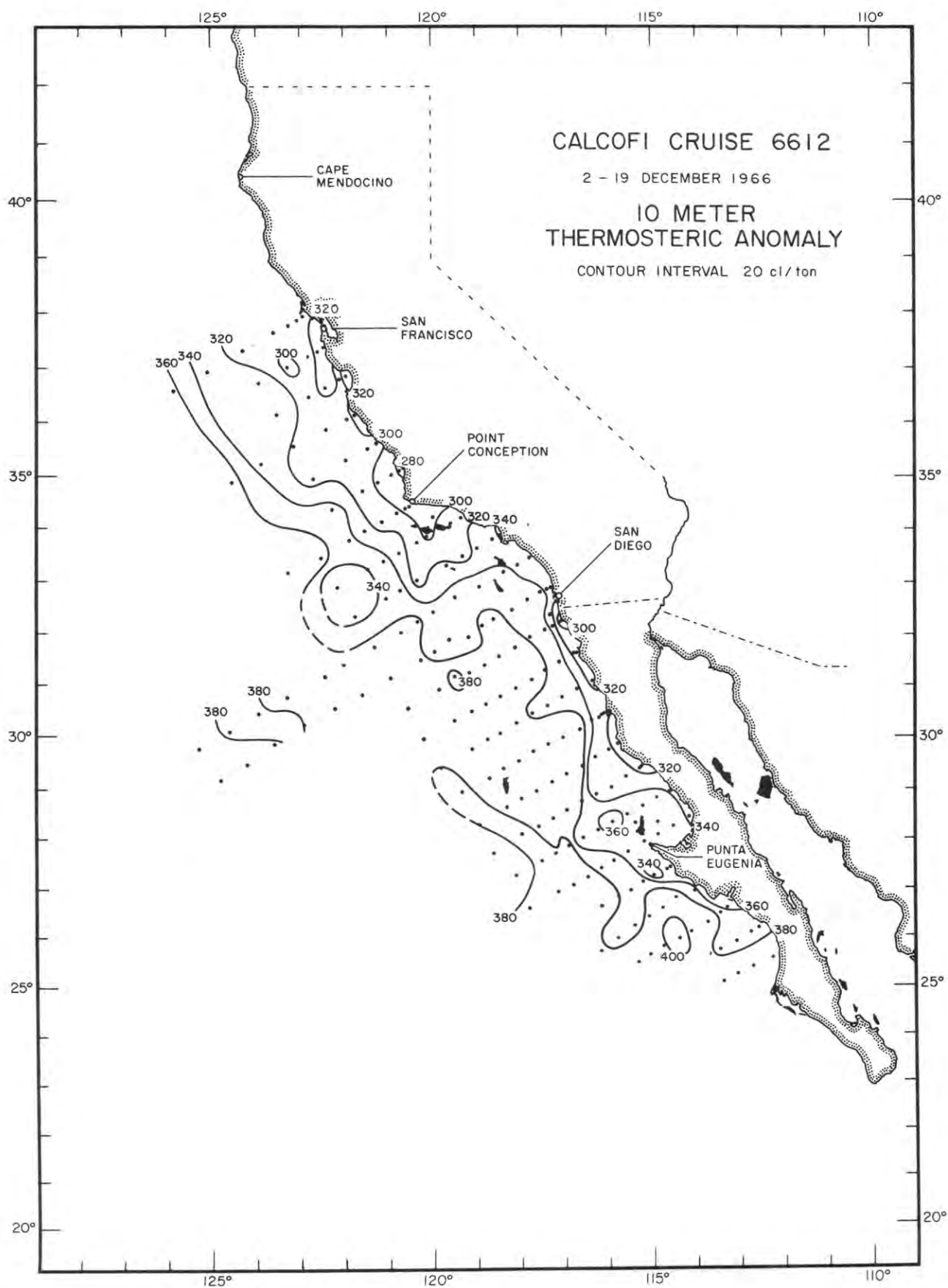
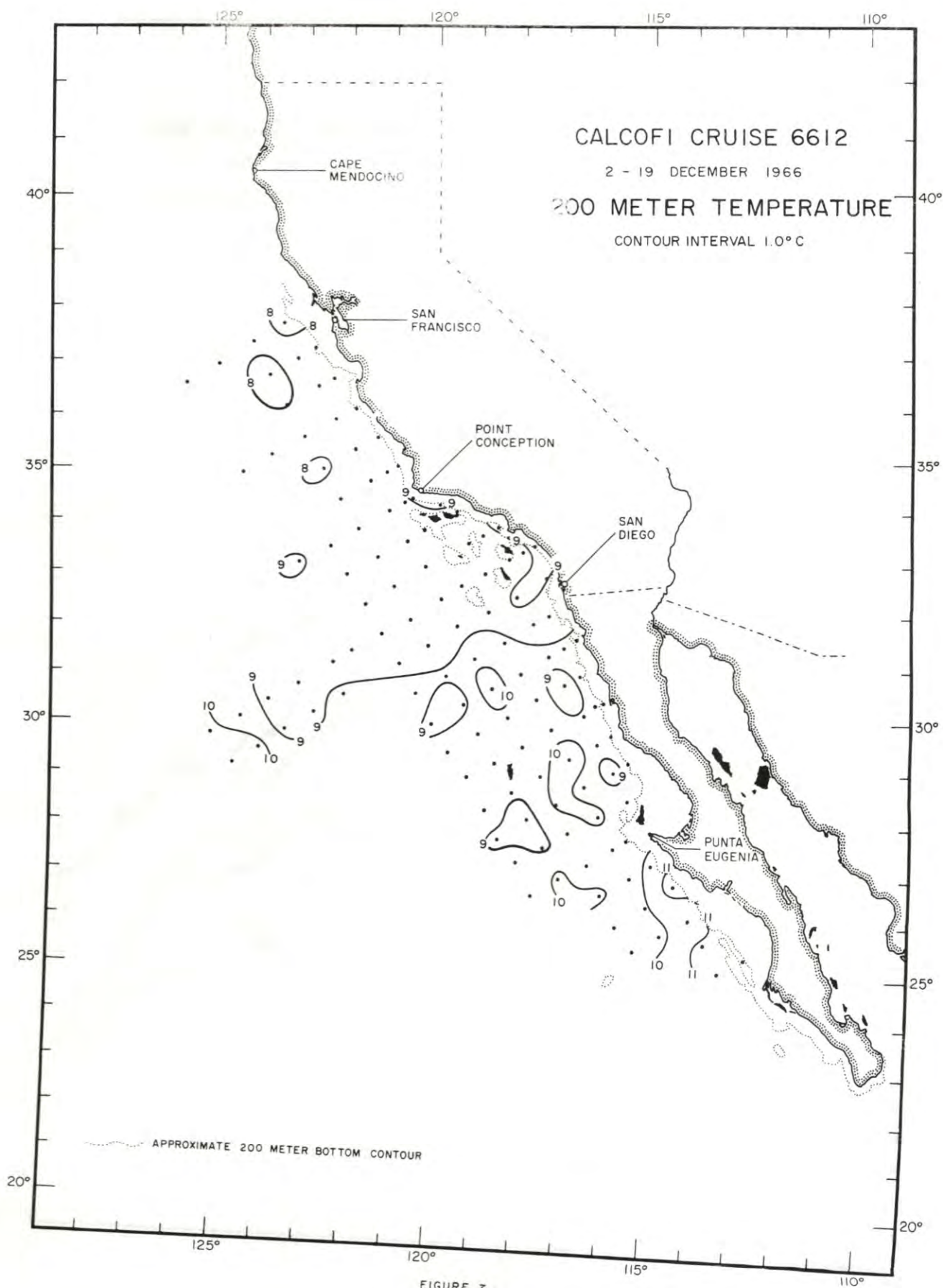


FIGURE 6



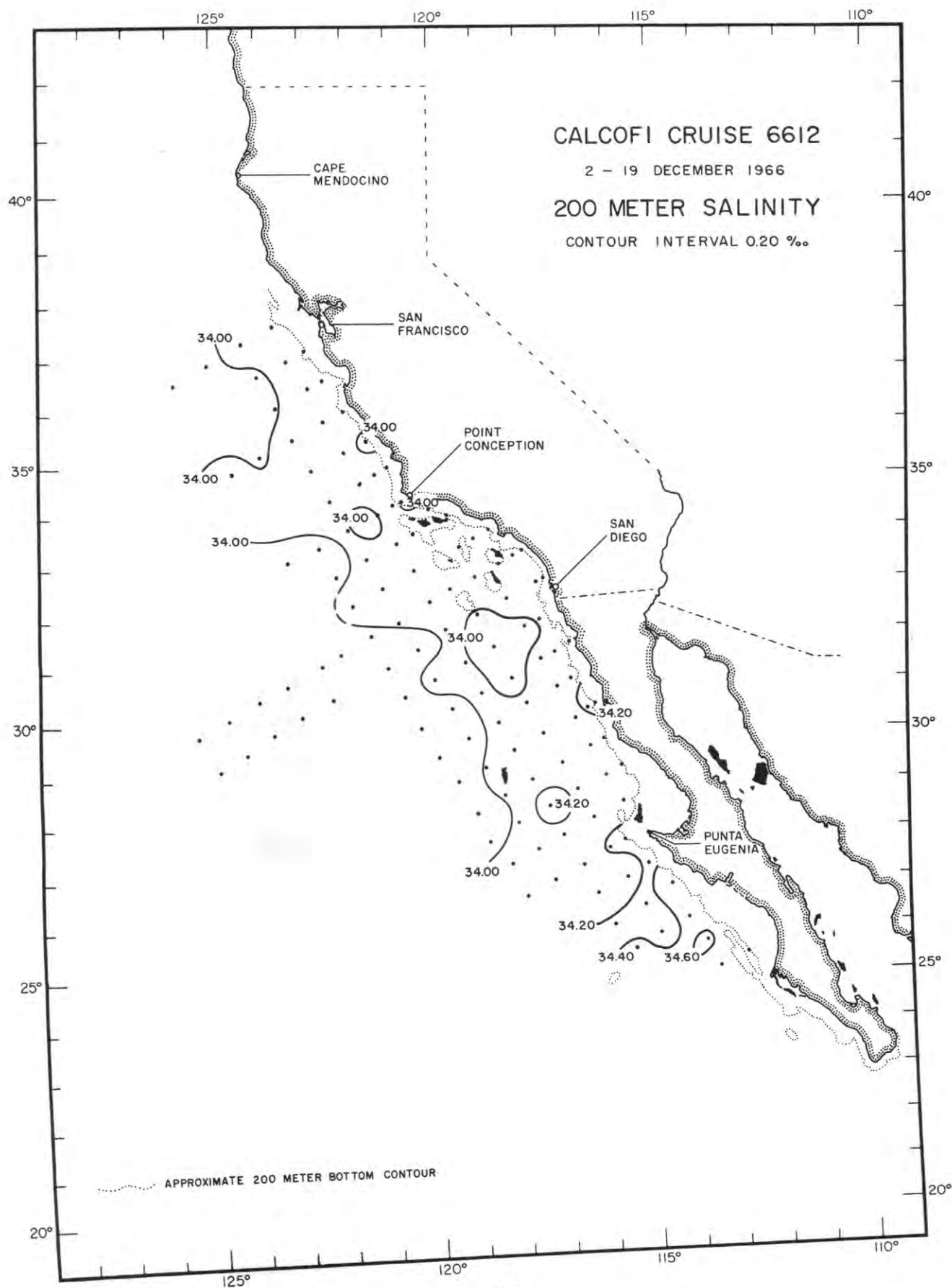


FIGURE 8

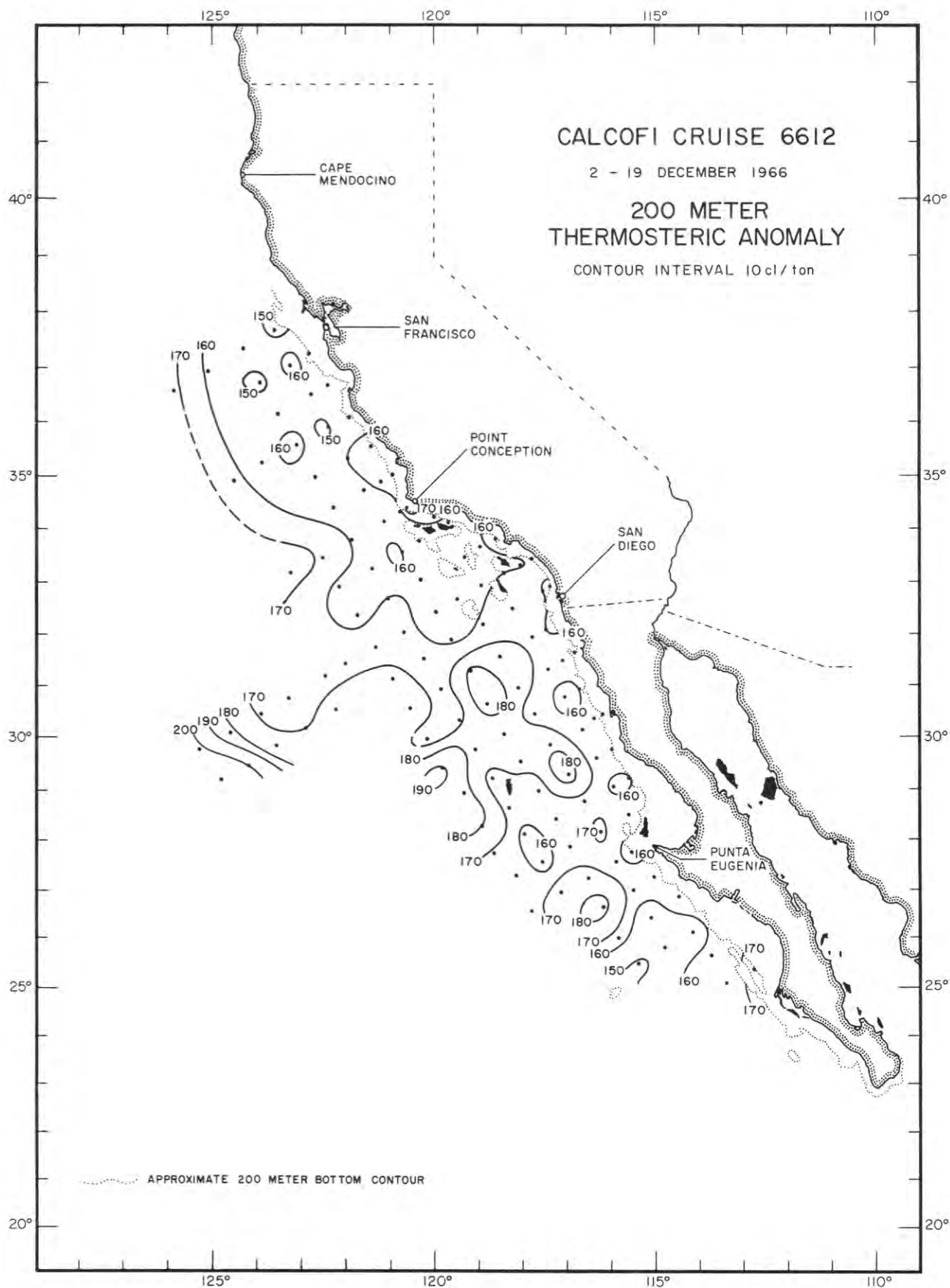


FIGURE 9

PERSONNEL
Cruise 6612

SHIPS' CAPTAINS

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

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz

Mead, Richard V., Principal Marine Technician (in charge)
Bryan, Walter R., Senior Marine Technician
Graham, Jerry B., Electronics Technician
May, Michel L., Marine Technician
Michel, Fred A., Jr., Marine Technician
Palmer, Don H., Marine Technician
Pine, James S., Senior Marine Technician
Reeder, David G., Biological Technician, Bureau of Commercial Fisheries
Shields, Kenneth W., Marine Technician
Webre, Rodney R., Marine Technician

RV David Starr Jordan

Hester, Arthur W., Senior Marine Technician (in charge)
Andersen, Ronald K., Marine Technician
Anderson, George C., Marine Technician
Conway, Carol B., Senior Engineering Aid
Hemingway, George T., Marine Technician
Irani, Rustam H., Marine Technician
*Kalin, George, Physical Science Technician (Physics), Bureau of Commercial Fisheries
Kellogg, Durrant, Marine Technician
Mauck, William W., Marine Technician
Metoyer, Jack, Biological Technician (Fisheries), Bureau of Commercial Fisheries
*Schumacher, Norman, Oceanographer, Bureau of Commercial Fisheries

*Lines 90 and 93 only.

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	UXY	PHQ	SIL	NIT	D&T	Z	T	S	UXY	SIG&T	D&T	DD	
CALCOFI CRUISE 6612								CALCOFI CRUISE 6612							
DAVID STARR JORDAN, DECEMBER 16 1966, 1915 GMT, 37 54N 123 01.5W, SOUNDING 42 FM, WIND 070 FORCE 2, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.															
0	13.05	33.122	6.08	-	-	-	301.4	0	13.05	33.122	6.08	24.95	301.4	0	
10	13.01	33.120	6.13	-	-	-	300.8	10	13.01	33.120	6.13	24.96	300.8	.030	
20	13.00	33.127	6.12	-	-	-	300.1	20	13.00	33.127	6.12	24.96	300.1	.060	
30	13.04	33.198	5.91	-	-	-	295.6	30	13.04	33.198	5.91	25.01	295.6	.090	
50	12.16	33.420	4.99	-	-	-	263.1	50	12.16	33.420	4.99	25.35	263.1	.146	
CALCOFI CRUISE 6612								CALCOFI CRUISE 6612							
DAVID STARR JORDAN, DECEMBER 16 1966, 2331 GMT, 37 40N 123 37W, SOUNDING 1700 FM, WIND 020 FORCE 3, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 03.															
0	13.26	32.993	6.26	-	-	-	314.9	0	13.26	32.993	6.26	24.81	314.9	0	
10	13.21	32.991	6.26	-	-	-	314.1	10	13.21	32.991	6.26	24.82	314.1	.031	
20	12.84K	33.03 G	-	-	-	-	304.2	20	12.84	33.030	6.25	24.92	304.2	.062	
30	12.74	33.040	6.24	-	-	-	301.6	30	12.74	33.040	6.24	24.95	301.6	.093	
40	12.70	33.088	6.04	-	-	-	297.4	50	10.70	33.170	5.56	25.43	256.2	.149	
50	10.70K	33.17 G	-	-	-	-	256.2	75	9.75	33.490	4.09	25.84	217.1	.208	
55	10.14	33.214	5.26	-	-	-	243.8	100	9.12	33.716	3.40	26.12	190.6	.260	
69	9.83	33.464	4.36	-	-	-	220.3	125	8.88	33.856	2.94	26.26	176.6	.306	
75	9.75K	33.49 G	-	-	-	-	217.1	150	8.56	33.967	2.74	26.40	163.7	.349	
95	9.22	33.687	3.48	-	-	-	194.3	200	7.78	34.019	2.48	26.56	148.6	.429	
115	8.90	33.789	3.19	-	-	-	181.9	250	7.33	34.060	2.01	26.65	139.4	.503	
134	8.86	33.912	2.75	-	-	-	172.2	300	6.69	34.061	1.72	26.74	131.1	.572	
154	8.47	33.975	2.74	-	-	-	161.7	400	5.87	34.113	1.08	26.89	117.1	.701	
184	7.96	34.004	2.67	-	-	-	152.3	500	5.25	34.176	.58	27.02	105.2	.818	
217	7.62	34.035	2.25	-	-	-	145.3	600	5.03	34.284	.35	27.13	94.7	.924	
246	7.38	34.060	2.03	-	-	-	140.2								
297	6.72	34.059	1.74	-	-	-	131.6								
349	6.32	34.096	1.36	-	-	-	123.8								
433	5.60	34.124	.90	-	-	-	113.1								
518	5.18	34.193	.52	-	-	-	103.2								
603	5.03	34.288	.35	-	-	-	94.4								
CALCOFI CRUISE 6612								CALCOFI CRUISE 6612							
DAVID STARR JORDAN, DECEMBER 17 1966, 0415 GMT, 37 19N 124 17.5W, SOUNDING 2200 FM, WIND 310 FORCE 1, WEATHER MISSING, SEA MISSING, WIRE ANGLE 06.															
0	12.91	32.962	6.39	-	-	-	310.5	0	12.91	32.962	6.39	24.85	310.5	0	
10	12.89	32.963	6.37	-	-	-	310.1	10	12.89	32.963	6.37	24.86	310.1	.031	
30	12.86	32.969	6.34	-	-	-	309.1	20	12.87	32.966	6.35	24.86	309.6	.062	
40	12.72	33.022	6.10	-	-	-	302.6	30	12.86	32.969	6.34	24.87	309.1	.093	
50	12.01K	33.26 G	-	-	-	-	272.2	50	12.01	33.260	5.44	25.26	272.2	.151	
55	11.80	33.316	5.04	-	-	-	264.3	75	10.39	33.550	3.94	25.77	223.0	.214	
69	10.67	33.538	3.99	-	-	-	228.5	100	9.63	33.660	3.59	25.99	202.6	.267	
75	10.39K	33.55 G	-	-	-	-	223.0	125	9.10	33.880	2.99	26.25	178.2	.315	
93	9.37	33.597	3.75	-	-	-	203.3	150	8.98	33.946	2.72	26.32	171.5	.360	
100	9.63K	33.66 G	-	-	-	-	202.6	200	8.37	34.031	2.47	26.48	156.0	.443	
113	9.34	33.754	3.27	-	-	-	191.2	250	7.53	34.066	1.98	26.63	141.7	.520	
125	9.10K	33.88 G	-	-	-	-	178.2	300	6.79	34.069	1.67	26.73	131.8	.590	
133	9.18	33.905	2.84	-	-	-	177.5	400	6.15	34.163	.87	26.89	116.7	.719	
153	8.92	33.952	2.71	-	-	-	170.1	500	5.52	34.215	.54	27.01	105.4	.836	
183	8.63	34.019	2.52	-	-	-	160.8	600	4.90	34.243	.40	27.11	96.3	.943	
217	8.07	34.038	2.43	-	-	-	151.3								
247	7.58	34.066	2.00	-	-	-	142.4								
297	6.82	34.066	1.70	-	-	-	132.3								
351	6.48	34.126	1.17	-	-	-	123.5								
434	5.92	34.183	.73	-	-	-	112.4								
519	5.40	34.222	.50	-	-	-	103.5								
603	4.88	34.244	.40	-	-	-	96.1								
CALCOFI CRUISE 6612								CALCOFI CRUISE 6612							
DAVID STARR JORDAN, DECEMBER 17 1966, 0906 GMT, 38 56.5N 125 04W, SOUNDING 2300 FM, WIND CALM, WEATHER MISSING, SEA MISSING, WIRE ANGLE 04.															
0	13.36	32.805	6.21	-	-	-	330.6	0	13.36	32.805	6.21	24.64	330.6	0	
10	13.34	32.801	6.19	-	-	-	330.5	10	13.34	32.801	6.19	24.64	330.5	.033	
30	13.26	32.828	6.17	-	-	-	327.0	20	13.30	32.811	6.18	24.66	329.1	.066	
40	12.82	32.896	6.10	-	-	-	313.7	30	13.26	32.828	6.17	24.68	327.0	.099	
50	11.46	32.976	5.93	-	-	-	283.4	50	11.46	32.976	5.93	25.14	283.4	.160	
64	10.46	33.022	5.72	-	-	-	263.2	75	10.10	33.280	5.03	25.61	238.2	.226	
75	10.10K	33.28 G	-	-	-	-	238.2	100	9.64	33.555	4.02	25.91	210.6	.282	
79	10.32	33.330	4.75	-	-	-	238.1	125	9.23	33.702	3.54	26.09	193.3	.333	
99	9.66	33.548	4.04	-	-	-	211.4	150	8.92	33.889	2.97	26.28	174.8	.380	
124	9.24	33.694	3.57	-	-	-	194.1	200	8.22	33.975	2.94	26.46	158.2	.465	
144	9.00	33.855	3.04	-	-	-	178.5	250	7.66	34.036	2.37	26.59	145.8	.543	
174	8.60	33.974	2.89	-	-	-	163.7	300	7.18	34.072	2.00	26.68	136.6	.615	
203	8.18	33.976	2.94	-	-	-	157.5	400	5.80	34.060	1.57	26.86	120.2	.749	
232	7.82	34.008	2.67	-	-	-	150.0	500	5.53	34.170	.70	26.98	108.8	.869	
272	7.48	34.066	2.02	-	-	-	141.1								
331	6.80	34.076	1.95	-	-	-	131.3								
400	5.80K	34.06 G	-	-	-	-	120.2								
405	5.77	34.059	1.53	-	-	-	120.0								
479	5.60	34.144	.81	-	-	-	111.2								
558	5.28	34.218	.61	-	-	-	102.4								

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	STL	NIT	D+T	Z	T	S	OXY	SIG+T	D+T	DD		
60.90							CALCOFI CRUISE 6612								60.90	
DAVID STARR JORDAN, DECEMBER 17 1966, 1343 GMT, 36 35N 125 51w, SOUNDING 2500 FM, WIND 040 FORCE 1, WEATHER PARTLY CLOUDY, SEA MISSING, WIRE ANGLE 01.																
0	14.52	32.709	6.01	-	-	-	360.4	0	14.52	32.709	6.01	24.33	360.4	0		
10	14.54	32.707	5.99	-	-	-	360.9	10	14.54	32.707	5.99	24.33	360.9	.036		
30	14.47	32.718	6.02	-	-	-	358.7	20	14.52	32.713	6.01	24.34	360.0	.072		
40	14.43	32.716	5.99	-	-	-	358.0	30	14.47	32.718	6.02	24.35	358.7	.108		
50	14.36	32.733	5.96	-	-	-	355.4	50	14.36	32.733	5.96	24.38	355.4	.180		
64	12.78	32.915	6.11	-	-	-	311.6	75	11.65	32.943	6.15	25.08	289.1	.261		
79	11.28	32.948	6.15	-	-	-	282.4	100	10.02	32.889	6.02	25.32	265.8	.331		
99	10.06	32.885	6.04	-	-	-	266.8	125	9.30	33.115	5.41	25.62	238.0	.394		
124	9.31	33.101	5.44	-	-	-	239.1	150	9.03	33.442	4.67	25.92	209.6	.451		
144	9.14	33.376	4.88	-	-	-	216.2	200	8.42	33.834	3.45	26.32	171.4	.547		
174	8.58	33.657	3.91	-	-	-	187.0	250	7.68	33.964	3.47	26.53	151.4	.630		
203	8.40	33.850	3.43	-	-	-	170.0	300	7.09	33.999	2.72	26.64	140.9	.705		
233	7.86	33.933	3.69	-	-	-	156.2	400	5.98	34.052	1.54	26.83	123.0	.842		
273	7.47	33.992	3.04	-	-	-	146.4	500	4.93	34.079	1.20	26.98	108.9	.963		
333	6.62	34.009	2.38	-	-	-	134.0									
409	5.90	34.057	1.45	-	-	-	121.6									
481	5.06	34.063	1.30	-	-	-	111.6									
560	4.76	34.172	.69	-	-	-	100.2									

63.52							CALCOFI CRUISE 6612							63.52						
DAVID STARR JORDAN, DECEMBER 16 1966, 1229 GMT, 37 19N 122 36W, SOUNDING 45 FM, WIND 080 FORCE 2, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 04.																				
1	13.42	33.313	5.91	-	-	-	294.4	0	13.42	33.313	5.91	25.02	294.4	0						
10	13.41	33.316	5.90	-	-	-	294.0	10	13.41	33.316	5.90	25.03	294.0	.029						
19	13.42	33.315	5.91	-	-	-	294.3	20	13.41	33.318	5.88	25.03	293.9	.059						
30	13.27	33.369	5.46	-	-	-	287.4	30	13.27	33.369	5.46	25.10	287.4	.088						
50	11.80	33.521	4.28	-	-	-	249.2	50	11.80	33.521	4.28	25.50	249.2	.142						
74	11.04	33.586	3.66	-	-	-	231.2	75	11.03	33.588	3.65	25.69	230.9	.202						

63.55							CALCOFI CRUISE 6612							63.55		
DAVID STARR JORDAN, DECEMBER 16 1966, 1042 GMT, 37 13N 122 50W, SOUNDING 160 FM, WIND 010 FORCE 4, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 07.																
0	12.95	32.997	6.10	-	-	-	308.7	0	12.95	32.997	6.10	24.87	308.7	0		
10	12.91	32.996	6.13	-	-	-	308.0	10	12.91	32.996	6.13	24.88	308.0	.031		
30	12.92	32.995	6.12	-	-	-	308.3	20	12.91	32.995	6.11	24.88	308.1	.062		
45	12.91	32.996	6.33	-	-	-	308.0	30	12.92	32.995	6.12	24.88	308.3	.093		
50	12.88K	33.00 G	-	-	-	-	307.2	50	12.88	33.000	6.24	24.89	307.2	.154		
55	12.74	33.004	6.09	-	-	-	304.3	75	10.15	33.220	5.21	25.56	243.4	.223		
69	10.56	33.151	5.50	-	-	-	255.3	100	9.73	33.583	3.85	25.91	209.8	.281		
84	9.86	33.335	4.74	-	-	-	230.3	125	9.41	33.821	3.02	26.15	187.3	.331		
103	9.70	33.628	3.70	-	-	-	206.1	150	9.35	33.877	2.86	26.20	182.3	.378		
128	9.38	33.836	2.97	-	-	-	185.7	200	8.60	34.047	2.33	26.46	158.2	.464		
147	9.39	33.866	2.90	-	-	-	183.7	250	8.10	34.095	1.67	26.57	147.6	.543		
181	8.84	34.002	2.43	-	-	-	165.2									
210	8.48	34.065	2.25	-	-	-	155.2									
249	8.11	34.094	1.69	-	-	-	147.7									

63.60							CALCOFI CRUISE 6612							63.60						
DAVID STARR JORDAN, DECEMBER 15 1966, 1144 GMT, 37 01.5N 123 16W, SCUNDING 1450 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA MISSING, WIRE ANGLE 17.																				
0	13.47	33.263	6.12	-	-	-	299.1	0	13.47	33.263	6.12	24.97	299.1	0						
10	13.46	33.261	6.14	-	-	-	299.0	10	13.46	33.261	6.14	24.98	299.0	.030						
20	13.47K	33.26 G	-	-	-	-	299.3	20	13.47	33.260	6.12	24.97	299.3	.060						
29	13.48	33.269	6.09	-	-	-	298.8	30	13.47	33.280	6.04	24.99	297.8	.090						
38	13.18	33.385	5.51	-	-	-	284.5	50	11.77	33.494	4.54	25.48	250.6	.145						
53	11.39	33.517	4.31	-	-	-	242.3	75	10.50	33.672	3.53	25.85	215.7	.203						
67	10.70	33.623	3.77	-	-	-	222.7	100	10.17	33.785	3.05	26.00	202.0	.256						
90	10.29	33.746	3.20	-	-	-	206.8	125	9.88	33.869	2.86	26.11	191.2	.306						
109	10.07	33.815	2.95	-	-	-	198.2	150	9.45	33.934	2.57	26.23	179.5	.353						
128	9.84	33.878	2.84	-	-	-	189.8	200	8.91	34.041	2.30	26.40	163.3	.440						
145	9.51	33.922	2.61	-	-	-	181.4	250	8.26	34.121	1.85	26.57	147.9	.520						
174	9.22	33.990	2.44	-	-	-	171.8	300	7.82	34.153	1.61	26.66	139.2	.594						
205	8.85	34.051	2.26	-	-	-	161.7	400	6.72	34.182	1.05	26.83	122.4	.730						
232	8.53	34.106	1.95	-	-	-	152.9	500	5.78	34.212	.68	26.98	108.6	.852						
278	7.90	34.134	1.74	-	-	-	141.8													
331	7.71	34.177	1.42	-	-	-	135.9													
408	6.59	34.183	1.01	-	-	-	120.7													
488	5.85	34.207	.71A	-	-	-	109.8													
570	5.56	34.248	.53A	-	-	-	103.4													

A) OXYGEN SAMPLES AT 488 AND 570 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CC		
63.70							CALCOFI CRUISE 6612								63.70	
DAVID STARR JORDAN, DECEMBER 15 1966, 0649 GMT, 36 42.5N 123 55W, SOUNDING 2100 FM, WIND 350 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 13.																
0	13.56	32.829	6.18	-	-	-	332.7	0	13.56	32.829	6.18	24.62	332.7	0		
10	13.56	32.829	6.17	-	-	-	332.7	10	13.56	32.829	6.17	24.62	332.7	.033		
29	12.40	33.013	6.07	-	-	-	297.4	20	13.24	32.921	6.13	24.76	319.2	.066		
39	10.53	33.046	5.68	-	-	-	262.5	30	12.21	33.016	6.04	25.03	293.6	.097		
53	9.96	33.168	5.22	-	-	-	244.3	50	10.08	33.137	5.31	25.51	248.4	.151		
67	9.35	33.313	4.80	-	-	-	224.0	75	9.25	33.461	4.29	25.89	211.6	.209		
92	9.16	33.739	3.37	-	-	-	189.5	100	8.98	33.755	3.37	26.17	185.6	.259		
111	8.72	33.781	3.46	-	-	-	179.8	125	8.50	33.835	3.29	26.31	172.6	.304		
129	8.46	33.854	3.20	-	-	-	170.6	150	8.49	33.974	2.56	26.42	162.1	.347		
149	8.50	33.974	2.55	-	-	-	162.3	200	7.64	33.985	2.92	26.55	149.3	.426		
177	8.04	33.975	2.95	-	-	-	155.6	250	6.90	34.010	2.38	26.67	137.5	.459		
211	7.46	33.992	2.83	-	-	-	146.3	300	6.47	34.036	1.86	26.75	130.2	.568		
239	7.04	34.007	2.47	-	-	-	139.6	400	5.80	34.137	.95	26.92	114.5	.695		
289	6.52	34.018	2.03	-	-	-	132.1	500	5.16	34.206	.54	27.05	101.9	.809		
341	6.32	34.110	1.22	-	-	-	122.8	600	4.81	34.274	.32	27.14	93.0	.912		
426	5.56	34.150	.84	-	-	-	110.7									
510	5.11	34.213	.51	-	-	-	100.9									
594	4.82	34.270	.33	-	-	-	93.5									

67.50

CALCOFI CRUISE 6612

67.50

DAVID STARR JORDAN, DECEMBER 14 1966, 1413 GMT, 36 49N 122 05W, SOUNDING 55 FM, WIND 020 FORCE 2, WEATHER CLEAR,
SEA MISSING, WIRE ANGLE 03.

0	13.84	33.336	5.76	-	-	-	300.9	0	13.84	33.336	5.76	24.96	300.9	0
10	13.83	33.334	5.75	-	-	-	300.8	10	13.83	33.334	5.75	24.96	300.8	.030
25	13.85	33.333	5.79	-	-	-	301.3	20	13.84	33.333	5.79	24.95	301.2	.060
35	13.84	33.334	5.66	-	-	-	301.0	30	13.85	33.333	5.72	24.95	301.2	.090
45	13.84	33.337	5.78	-	-	-	300.8	50	13.77	33.346	5.75	24.98	298.7	.151
61	13.52	33.374	5.42	-	-	-	291.9	75	11.86	33.501	4.43	25.47	251.7	.220
74	11.96	33.491	4.50	-	-	-	254.2	100	10.10	33.772	2.92	26.00	201.8	.277
99	10.14	33.760	2.97	-	-	-	203.4							

67.55							CALCOFI CRUISE 6612							67.55	
DAVID STARR JORDAN, DECEMBER 14 1966, 1708 GMT, 36 39N 122 26W, SOUNDING 1200 FM, WIND 330 FORCE 2, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 02.															
0	13.42	33.241	6.08	-	-	-	299.7	0	13.42	33.241	6.08	24.97	299.7	0	
10	13.27	33.238	6.06	-	-	-	297.1	10	13.27	33.238	6.06	25.00	297.1	.030	
30	13.28	33.236	6.05	-	-	-	297.4	20	13.26	33.233	6.05	24.99	297.3	.060	
40	13.20	33.259	5.88	-	-	-	294.2	30	13.28	33.236	6.05	24.99	297.4	.089	
50	11.71K	33.44 G	-	-	-	-	253.6	50	11.71	33.440	4.92	25.45	253.6	.145	
55	11.20	33.470	4.40	-	-	-	242.5	75	10.07	33.580	3.70	25.85	215.6	.204	
69	10.23	33.570	3.86	-	-	-	218.9	100	9.43	33.750	3.28	26.09	192.9	.255	
75	10.07K	33.58 G	-	-	-	-	215.6	125	8.91	33.860	3.08	26.26	176.7	.302	
94	9.62	33.703	3.36	-	-	-	199.3	150	8.78	34.001	2.49	26.39	164.3	.345	
100	9.43K	33.75 G	-	-	-	-	192.9	200	8.36	34.071	2.03	26.51	153.0	.426	
114	9.16	33.817	3.13	-	-	-	183.8	250	7.78	34.088	1.92	26.61	143.6	.502	
134	8.75	33.899	3.00	-	-	-	171.5	300	7.27	34.128	1.45	26.72	133.6	.574	
154	8.80	34.025	2.36	-	-	-	162.9	400	6.77	34.219	.79	26.86	120.3	.706	
184	8.52	34.062	2.10	-	-	-	156.0	500	6.03	34.237	.51	26.97	109.7	.827	
218	8.17	34.077	1.99	-	-	-	149.8	600	5.21	34.291	.34	27.11	96.1	.937	
247	7.82	34.086	1.94	-	-	-	144.2								
297	7.28	34.124	1.48	-	-	-	134.0								
350	7.15	34.190	1.06	-	-	-	127.4								
434	6.46	34.228	.66	-	-	-	115.7								
520	5.88	34.244	.47	-	-	-	107.4								
604	5.17	34.294	.33	-	-	-	95.5								

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D* _T	Z	T	S	OXY	SIG* _T	D* _T	CC		
67.60							CALCOFI CRUISE 6612								67.60	
DAVID STARR JORDAN, DECEMBER 14 1966, 2010 GMT, 36 31N 122 46.5W, SOUNDING 1650 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 1C.																
0	13.58	33.058	6.21	-	-	-	316.2	0	13.58	33.058	6.21	24.79	316.2	C		
10	13.56	33.079	6.21	-	-	-	314.3	10	13.56	33.079	6.21	24.81	314.3	.032		
20	13.31K	33.09 G	-	-	-	-	308.7	20	13.31	33.090	6.13	24.87	308.7	.063		
30	12.38	33.125	5.88	-	-	-	288.8	30	12.38	33.125	5.88	25.08	288.8	.093		
39	11.84	33.259A	5.45	-	-	-	269.2	50	11.40	33.380	4.99	25.46	252.6	.147		
50	11.40K	33.38 G	-	-	-	-	252.6	75	10.22	33.540	4.09	25.80	220.5	.207		
54	10.94	33.359A	4.82	-	-	-	246.2	100	9.52	33.710	3.65	26.05	197.2	.259		
68	10.42	33.531	4.10	-	-	-	224.9	125	9.28	33.922	2.81	26.25	177.9	.307		
75	10.22K	33.540G	-	-	-	-	220.9	150	8.88	33.971	2.81	26.35	168.0	.351		
92	9.54	33.604	4.08	-	-	-	205.4	200	8.38	34.066	2.32	26.50	153.7	.423		
100	9.52K	33.71 G	-	-	-	-	197.2	250	7.89	34.100	1.89	26.61	144.1	.509		
112	9.42	33.851	2.98	-	-	-	185.2	300	7.52	34.142	1.45	26.69	136.0	.581		
132	9.19	33.939	2.75	-	-	-	175.2	400	6.37	34.174	.96	26.87	118.6	.714		
152	8.84	33.973	2.82	-	-	-	167.4	500	5.55	34.224	.62	27.02	105.1	.831		
181	8.54	34.029	2.60	-	-	-	158.8	600	5.06	34.284	.65	27.12	95.0	.938		
216	8.24	34.089	2.10	-	-	-	150.0									
245	7.92	34.096	1.94	-	-	-	144.9									
294	7.59	34.139	1.48	-	-	-	137.1									
349	6.92	34.156	1.22	-	-	-	126.9									
433	6.06	34.188	.81	-	-	-	113.8									
516	5.45	34.233	.60	-	-	-	103.2									
600	5.06	34.284	.65	-	-	-	95.0									

67.70							CALCOFI CRUISE 6612							67.70						
DAVID STARR JORDAN, DECEMBER 15 1966, 0145 GMT, 36 08N 123 29.5W, SOUNDING 2000+ FM, WIND 340 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 11.																				
0	13.50	32.829	6.14	-	-	-	331.5	0	13.50	32.829	6.14	24.63	331.5	C						
10	13.50	32.823	6.18	-	-	-	331.9	10	13.50	32.823	6.18	24.63	331.9	.033						
20	13.49K	32.82 G	6.18G	-	-	-	332.0	20	13.49	32.820	6.18	24.63	332.0	.066						
30	13.08	32.940	6.18	-	-	-	315.4	30	13.08	32.940	6.18	24.80	315.4	.059						
40	12.80	33.076	6.06	-	-	-	300.1	50	11.85	33.207	5.64	25.25	273.3	.158						
54	11.40	33.256	5.41	-	-	-	261.7	75	9.73	33.453	4.28	25.81	219.5	.220						
69	10.02	33.415	4.44	-	-	-	227.0	100	9.21	33.636	3.74	26.04	198.0	.272						
93	9.30	33.563	3.99	-	-	-	204.7	125	8.94	33.809	3.11	26.22	180.9	.320						
112	9.10	33.752	3.32	-	-	-	187.7	150	8.51	33.862	3.15	26.32	170.7	.365						
133	8.82	33.828	3.06	-	-	-	177.8	200	8.00	33.990	2.95	26.50	153.8	.448						
153	8.46	33.868	3.17	-	-	-	169.6	250	7.23	33.993	2.76	26.62	143.1	.524						
182	8.33	33.992	2.73	-	-	-	158.5	300	6.76	34.018	2.12	26.70	135.1	.595						
216	7.66	33.973	3.17	-	-	-	150.4	400	5.81	34.075	1.28	26.87	119.3	.727						
246	7.27	33.991	2.82	-	-	-	143.8	500	5.14	34.171	.65	27.02	104.4	.844						
293	6.82	34.015	2.19	-	-	-	136.1	600	4.76	34.256	.36	27.13	93.9	.945						
350	6.30	34.045	1.70	-	-	-	127.4													
431	5.54	34.098	1.05	-	-	-	114.4													
517	5.06	34.187	.58	-	-	-	102.3													
600	4.76	34.256	.36	-	-	-	93.9													

70.53

CALCOFI CRUISE 6612

70.53

DAVID STARR JORDAN, DECEMBER 14 1966, 0620 GMT, 36 06.5N 121 54W, SOUNDING 600 FM, WIND 310 FORCE 3, WEATHER MISSING, SEA MISSING, WIRE ANGLE 20.

1	13.97	33.280	5.90	-	-	-	307.5	0	13.97	33.280	5.90	24.89	307.5	0
10	13.97	33.276	5.91	-	-	-	307.8	10	13.97	33.276	5.91	24.88	307.8	.031
29	13.84	33.295	5.75	-	-	-	303.9	20	13.92	33.282	5.85	24.90	306.4	.062
30	13.83K	33.30 G	-	-	-	-	303.3	30	13.83	33.300	5.70	24.93	303.3	.092
38	13.06	33.366	5.25	-	-	-	283.7	50	11.98	33.400	4.79	25.37	261.3	.149
50	11.98K	33.40 G	-	-	-	-	261.3	75	10.87	33.540	4.04	25.68	231.7	.211
52	11.66	33.414	4.73	-	-	-	254.6	100	10.06	33.710	3.54	25.96	205.7	.266
64	11.08	33.487	4.36	-	-	-	239.2	125	9.81	33.770	3.18	26.04	197.3	.317
75	10.87K	33.54 G	-	-	-	-	231.7	150	9.44	33.853	3.08	26.17	185.3	.365
87	10.20	33.652	3.75	-	-	-	212.3	200	8.59	34.056	2.30	26.46	157.5	.453
104	10.02	33.720	3.48	-	-	-	204.4	250	7.95	34.084	2.00	26.58	146.2	.531
122	9.87	33.757	3.17	-	-	-	199.3	300	7.47	34.131	1.61	26.69	136.1	.603
125	9.81K	33.77 G	-	-	-	-	197.3	400	6.84	34.212	.84	26.84	121.6	.738
140	9.58	33.818	3.23	-	-	-	190.2	500	5.94	34.231	.55	26.97	109.1	.859
167	9.18	33.918	2.74	-	-	-	176.6							
197	8.63	34.051	2.33	-	-	-	158.4							
224	8.33	34.075	2.09	-	-	-	152.3							
269	7.69	34.092	1.93	-	-	-	142.0							
319	7.38	34.157	1.40	-	-	-	132.9							
398	6.86	34.212	.85	-	-	-	122.0							
479	6.08	34.221	.60	-	-	-	111.5							
562	5.66	34.276	.44	-	-	-	102.4							

A) THE TEMPERATURE INVERSION INDICATED BY THE BATHYTHERMOGRAPH OBSERVATION ACCOUNTS FOR THE SALINITY VALUE AT 50 METERS.

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D* ² T	Z	T	S	OXY	SIG* ² T	D* ² T	CC			
70.60								CALCCFI CRUISE 6612								70.60	
DAVID STARR JORDAN, DECEMBER 14 1966, 0229 GMT, 35 53N 122 22.5W, SOUNDING 1700 FM, WIND DIRECTION MISSING FORCE 1, WEATHER FCG, SEA MISSING, WIRE ANGLE 08.																	
1	13.76	33.144	6.10	-	-	-	313.4	0	13.76	33.144	6.10	24.82	313.4	0			
11	13.57	33.124	6.09	-	-	-	311.2	10	13.58	33.124	6.09	24.85	311.4	.031			
30	13.64	33.194	6.05	-	-	-	307.4	20	13.62	33.140	6.07	24.85	310.9	.062			
41	13.32	33.293	5.64	-	-	-	294.0	30	13.64	33.194	6.05	24.89	307.4	.093			
50	11.42	33.370	4.83	-	-	-	253.6	50	11.42	33.370	4.83	25.45	253.6	.150			
63	10.13	33.352	4.66	-	-	-	233.4	75	9.98	33.446	4.33	25.76	224.0	.210			
78	9.94	33.481	4.22	-	-	-	220.8	100	9.65	33.766	3.16	26.07	195.0	.263			
98	9.67	33.749	3.20	-	-	-	196.7	125	9.25	33.889	2.99	26.23	179.8	.310			
124	9.28	33.887	2.99	-	-	-	180.4	150	8.70	33.937	2.76	26.35	168.0	.354			
142	8.80	33.903	2.89	-	-	-	172.0	200	8.24	34.087	2.02	26.54	150.1	.435			
173	8.54	34.045	2.33	-	-	-	157.6	250	7.75	34.111	1.69	26.63	141.5	.510			
202	8.22	34.088	2.00	-	-	-	149.7	300	7.10	34.109	1.51	26.73	132.7	.561			
232	8.05	34.122	1.69	-	-	-	144.8	400	6.43	34.207	.76	26.89	115.8	.711			
271	7.38	34.094	1.72	-	-	-	137.6	500	5.86	34.266	.42	27.01	105.5	.828			
330	6.90	34.140	1.23	-	-	-	127.9										
405	6.40	34.212	.73	-	-	-	116.1										
477	5.98	34.254	.47	-	-	-	107.9										
557	5.58	34.292	.35	-	-	-	100.3										

70.70							CALCCFI CRUISE 6612							70.70
DAVID STARR JORDAN, DECEMBER 13 1966, 2138 GMT, 35 33N 123 06W, SOUNDING 2000+ FM, WIND 250 FORCE 2, WEATHER FCG, SEA VERY ROUGH, WIRE ANGLE 15.														
0	13.62	32.981	6.07	-	-	-	322.7	0	13.62	32.981	6.07	24.73	322.7	0
10	13.46	32.981	6.12	-	-	-	319.6	10	13.46	32.981	6.12	24.76	319.6	.032
20	13.63K	33.12 G	-	-	-	-	312.6	20	13.63	33.120	6.05	24.83	312.6	.064
29	13.74	33.228	5.88	-	-	-	306.9	30	13.69	33.231	5.86	24.91	305.6	.095
38	13.08	33.237	5.63	-	-	-	293.5	50	11.89	33.333	5.05	25.34	264.6	.152
49	11.98	33.330	5.07	-	-	-	266.5	75	10.72	33.538	3.99	25.71	229.3	.214
62	11.02	33.355	4.74	-	-	-	247.9	100	10.21	33.734	3.28	25.95	206.4	.269
76	10.70	33.554	3.93	-	-	-	227.8	125	9.85	33.856	2.78	26.10	191.6	.319
95	10.30	33.703	3.39	-	-	-	210.2	150	9.52	33.950	2.43	26.23	179.4	.366
118	9.93	33.827	2.94	-	-	-	195.0	200	8.89	34.047	2.28	26.41	162.6	.454
137	9.72	33.901	2.53	-	-	-	186.2	250	8.47	34.108	1.92	26.52	151.9	.534
166	9.26	34.001	2.39	-	-	-	171.6	300	7.76	34.109	1.84	26.63	141.6	.610
192	8.96	34.041	2.30	-	-	-	164.1	400	6.70	34.163	1.07	26.82	123.6	.748
220	8.74	34.062	2.20	-	-	-	159.3	500	6.01	34.224	.57	26.96	110.5	.871
256	8.41	34.116	1.87	-	-	-	150.4							
310	7.60	34.104	1.82	-	-	-	139.9							
381	6.84	34.142	1.24	-	-	-	126.9							
451	6.34	34.204	.73	-	-	-	116.0							
527	5.84	34.227	.55	-	-	-	108.2							

70.80							CALCCFI CRUISE 6612							70.80
DAVID STARR JORDAN, DECEMBER 13 1966, 1633 GMT, 35 14N 123 52W, SOUNDING 2300 FM, WIND 280 FORCE 1, WEATHER CLCLDY, SEA VERY ROUGH, WIRE ANGLE 05.														
0	14.22	32.852	6.08	-	-	-	343.9	0	14.22	32.852	6.08	24.50	343.9	0
10	14.28	32.932	6.06	-	-	-	339.2	10	14.28	32.932	6.06	24.55	339.2	.034
30	13.84	33.282	5.67	-	-	-	304.8	20	14.08	33.115	5.84	24.74	321.7	.067
40	13.81	33.316	5.80	-	-	-	301.8	30	13.84	33.282	5.67	24.91	304.8	.099
50	13.16	33.339	5.51	-	-	-	287.5	50	13.16	33.339	5.51	25.10	287.5	.158
64	10.95	33.081	5.18	-	-	-	266.9	75	9.89	33.136	5.08	25.54	245.5	.225
79	9.65	33.194	5.02	-	-	-	237.5	100	9.65	33.609	3.83	25.95	206.7	.282
99	9.66	33.595	3.88	-	-	-	207.9	125	9.32	33.830	2.94	26.17	185.3	.332
123	9.34	33.822	2.94	-	-	-	186.1	150	9.05	33.902	2.92	26.27	175.7	.377
144	9.15	33.882	2.92	-	-	-	178.8	200	8.26	33.996	2.91	26.47	157.2	.462
173	8.62	33.970	2.93	-	-	-	164.3	250	7.51	34.048	2.08	26.62	142.8	.539
201	8.25	33.957	2.90	-	-	-	156.9	300	7.04	34.109	1.54	26.73	132.0	.610
231	7.72	34.025	2.34	-	-	-	147.4	400	6.34	34.187	1.24	26.89	117.2	.740
271	7.32	34.074	1.84	-	-	-	138.3	500	5.86	34.289	.30	27.03	103.8	.856
329	6.79	34.141	1.31	-	-	-	126.4							
404	6.32	34.190	1.22	-	-	-	116.8							
477	5.98	34.275	.31	-	-	-	106.3							
556	5.56	34.299	.29	-	-	-	99.5							

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	C*T	CC			
70.90								CALCCFI CRUISE 6612								70.90	
DAVID STARR JORDAN, DECEMBER 13 1966, 1150 GMT, 34 53N 124 30W, SCUNDING 2420 FM, WIND 270 FORCE 3, WEATHER MISSING, SEA MISSING, WIRE ANGLE 06.																	
1	14.98	32.719	5.88	-	-	-	369.0	0	14.98	32.719	5.88	24.24	369.0	0			
10	14.95	32.718	5.91	-	-	-	368.4	10	14.95	32.718	5.91	24.25	368.4	.037			
20	14.66K	32.75 G	-	-	-	-	360.2	20	14.66	32.750	5.93	24.33	360.2	.073			
30	14.48	32.770	6.00	-	-	-	355.1	30	14.48	32.770	6.00	24.39	355.1	.109			
40	13.62	32.861	6.17	-	-	-	331.5	50	12.95	32.919	6.24	24.81	314.5	.176			
56	12.56	32.940	6.25	-	-	-	305.7	75	10.99	32.955	6.15	25.21	276.8	.251			
70	11.36	32.949	6.21	-	-	-	283.7	100	9.84	33.048	5.49	25.48	251.4	.317			
95	9.92	32.985	5.68	-	-	-	257.2	125	9.33	33.439	4.46	25.87	214.4	.376			
115	9.68	33.282	4.87	-	-	-	231.4	150	8.82	33.738	3.72	26.18	184.5	.426			
133	9.05	33.557	4.16	-	-	-	201.4	200	8.66	34.024	2.57	26.43	160.9	.514			
154	8.80	33.773	3.63	-	-	-	181.6	250	8.08	34.076	2.13	26.56	148.6	.594			
184	8.84	33.999	2.62	-	-	-	165.4	300	7.41	34.102	1.71	26.68	137.4	.667			
217	8.42	34.047	2.49	-	-	-	155.7	400	6.48	34.180	.87	26.86	119.6	.801			
247	8.12	34.075	2.16	-	-	-	149.3	500	5.69	34.241	.40	27.01	105.4	.920			
296	7.45	34.098	1.75	-	-	-	138.3	600	5.33	34.313	.24	27.11	95.9	1.027			
350	6.96	34.159	1.20	-	-	-	127.2										
436	6.16	34.190	.70	-	-	-	114.8										
520	5.58	34.256	.34	-	-	-	103.0										
603	5.33	34.315	.24	-	-	-	95.7										

73.53	CALCOFI CRUISE 6612												73.53	
DAVID STARR JORDAN, DECEMBER 12 1966, 1713 GMT, 35 31.5N 121 28.5W, SOUNDING 400 FM, WIND 310 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 05.														
0	14.14	33.369	5.87	-	-	-	304.4	0	14.14	33.369	5.87	24.92	304.4	0
10	14.14	33.367	5.87	-	-	-	304.5	10	14.14	33.367	5.87	24.92	304.5	.030
30	14.14	33.368	5.87	-	-	-	304.5	20	14.16	33.367	5.90	24.91	304.9	.061
40	14.04	33.370	5.72	-	-	-	302.3	30	14.14	33.368	5.87	24.92	304.5	.052
50	10.98	33.174	5.28	-	-	-	260.6	50	10.98	33.174	5.28	25.38	260.6	.148
64	10.16	33.356	4.57	-	-	-	233.6	75	10.12	33.496	4.13	25.78	222.6	.209
79	10.16	33.541	4.00	-	-	-	219.9	100	9.96	33.677	3.61	25.95	206.6	.263
99	9.97	33.671	3.63	-	-	-	207.2	125	9.62	33.813	3.19	26.11	191.2	.313
124	9.64	33.808	3.21	-	-	-	191.8	150	9.22	33.920	2.84	26.26	177.1	.360
144	9.31	33.897	2.90	-	-	-	180.1	200	8.43	33.982	3.24	26.43	160.7	.446
173	8.89	33.980	2.81	-	-	-	167.6	250	7.80	34.036	2.63	26.57	147.6	.525
202	8.40	33.982	3.27	-	-	-	160.2	300	7.30	34.084	1.83	26.68	137.2	.559
232	7.98	34.008	3.03	-	-	-	152.3	400	6.79	34.207	.80	26.84	121.4	.733
272	7.60	34.070	2.12	-	-	-	142.4	500	5.95	34.243	.43	26.98	108.3	.854
331	7.00	34.098	1.62	-	-	-	132.3							
406	6.76	34.216	.74	-	-	-	120.4							
480	6.08	34.233	.47	-	-	-	110.6							
559	5.68	34.286	.39	-	-	-	101.9							

73.60							CALCOFI CRUISE 6612							73.60						
DAVID STARR JORDAN, DECEMBER 12 1966, 2047 GMT, 35 18.5N 121 56W, SOUNDING 1300 FM, WIND 310 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 09.																				
1	14.40	33.309	5.84	-	-	-	314.0	0	14.40	33.309	5.84	24.82	314.0	0						
11	14.39	33.306	5.99	-	-	-	314.0	10	14.39	33.306	5.98	24.82	314.0	.031						
31	14.30	33.320	5.97	-	-	-	311.2	20	14.36	33.316	6.01	24.83	312.6	.063						
40	14.08	33.296	5.84	-	-	-	308.5	30	14.31	33.320	5.98	24.85	311.4	.054						
55	12.66	33.236	5.57	-	-	-	285.7	50	13.23	33.246	5.70	25.01	295.7	.155						
69	10.96	33.358	4.69	-	-	-	246.7	75	10.63	33.390	4.50	25.61	238.8	.222						
75	10.63K	33.39 G	-	-	-	-	238.8	100	9.83	33.522	3.98	25.85	216.0	.279						
95	9.92	33.489	4.11	-	-	-	219.9	125	9.40	33.730	3.50	26.08	194.0	.331						
113	9.64	33.620	3.67	-	-	-	205.8	150	9.21	33.906	2.98	26.25	177.9	.378						
133	9.27	33.801	3.39	-	-	-	186.6	200	8.66	34.031	2.34	26.43	160.5	.465						
154	9.19	33.925	2.88	-	-	-	176.2	250	7.97	34.068	2.33	26.57	147.7	.544						
183	8.81	33.994	3.54U	-	-	-	165.3	300	7.44	34.162	1.26	26.72	133.3	.616						
215	8.52	34.054	2.32	-	-	-	156.6	400	6.58	34.213	.79	26.88	118.3	.747						
244	8.04	34.057	2.44	-	-	-	149.5	500	5.83	34.277	.55	27.03	104.3	.865						
292	7.54	34.155	1.35	-	-	-	135.2	600	5.09	34.273	.34	27.11	96.2	.971						
345	6.92	34.186	.96	-	-	-	124.7													
427	6.44	34.226	.74	-	-	-	115.6													
511	5.74	34.281	.52	-	-	-	103.0													
595	5.12	34.275	.35	-	-	-	96.4													

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	CXY	P+D	SIL	NIT	D+T	Z	T	S	CXY	SIG+T	D+T	CC	
CALCCFI CRUISE 6612								73.70							
DAVID STARR JORDAN, DECEMBER 13 1966, 0200 GMT, 34 58N 122 40W, SOUNDING 2000+ FM, WIND 320 FORCE 3, WEATHER FCG, SEA VERY ROUGH, WIRE ANGLE 32.															
1	14.32	33.319	-	-	-	-	311.6	0	14.32	33.319		24.84	311.6	C	
8	14.32	33.301	5.82	-	-	-	313.0	10	14.32	33.299	5.84	24.83	313.0	.031	
26	14.28	33.303	5.91	-	-	-	312.0	20	14.30	33.298	5.91	24.83	312.7	.063	
34	14.14	33.307	5.87	-	-	-	308.9	30	14.24	33.306	5.90	24.85	310.9	.094	
46	13.32	33.265	5.71	-	-	-	296.0	50	12.73	33.248	5.57	25.11	286.2	.154	
57	11.67	33.240	5.25	-	-	-	267.6	75	10.38	33.467	4.24	25.71	229.0	.218	
77	10.32	33.500	4.14	-	-	-	225.5	100	9.72	33.664	3.61	25.98	203.8	.273	
92	9.99	33.627	3.72	-	-	-	210.8	125	8.98	33.809	3.26	26.21	181.6	.322	
109	9.40	33.701	3.51	-	-	-	196.0	150	8.55	33.936	3.25	26.38	165.6	.366	
124	9.00	33.803	3.26	-	-	-	182.4	200	7.96	34.025	2.64	26.54	150.7	.446	
148	8.57	33.929	3.28	-	-	-	166.6	250	7.61	34.113	1.71	26.66	139.3	.521	
178	8.25	34.001	2.74	-	-	-	156.6	300	7.11	34.135	1.39	26.74	130.9	.551	
200	7.96	34.025	2.64	-	-	-	150.7	400	6.34	34.189	.76	26.89	117.1	.720	
240	7.72	34.106	1.80	-	-	-	141.4	500	5.65	34.252	.33	27.03	104.1	.826	
281	7.24	34.124	1.53	-	-	-	133.5								
348	6.82	34.164	1.06	-	-	-	125.0								
417	6.20	34.198	.67	-	-	-	114.7								
492	5.69	34.246	.36	-	-	-	105.0								

77.51							CALCCFI CRUISE 6612							77.51
DAVID STARR JORDAN, DECEMBER 12 1966, 0944 GMT, 35 02N 120 56.5W, SOUNDING 145 FM, WIND 340 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 01.														
0	13.70	33.334	5.77	-	-	-	298.3	0	13.70	33.334	5.77	24.98	298.3	C
10	13.60	33.337	5.75	-	-	-	296.1	10	13.60	33.337	5.75	25.01	296.1	.030
30	13.46	33.383	5.78	-	-	-	290.0	20	13.53	33.359	5.82	25.04	293.1	.059
45	12.39	33.390	5.13	-	-	-	269.5	30	13.46	33.383	5.78	25.07	290.0	.088
55	11.38	33.448	4.50	-	-	-	247.2	50	11.86	33.414	4.81	25.40	258.2	.143
69	10.93	33.584	4.07	-	-	-	229.5	75	10.73	33.626	3.90	25.77	223.0	.204
85	10.43	33.682	3.65	-	-	-	213.9	100	10.14	33.741	3.46	25.97	204.8	.258
105	10.06	33.758	3.42	-	-	-	202.2	125	9.69	33.845	3.17	26.12	189.8	.308
130	9.60	33.867	3.10	-	-	-	186.8	150	9.32	33.939	2.83	26.26	177.2	.354
150	9.32	33.939	2.83	-	-	-	177.2	200	8.79	34.035	2.52	26.42	162.0	.441
185	8.98	34.003	2.64	-	-	-	167.2	250	8.33	34.109	1.95	26.55	149.7	.521
214	8.63	34.061	1.440	-	-	-	157.7							
254	8.30	34.113	1.89	-	-	-	149.0							

77.55							CALCCFI CRUISE 6612							77.55
DAVID STARR JORDAN, DECEMBER 12 1966, 0712 GMT, 34 54.5N 121 13W, SOUNDING 320 FM, WIND 300 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 12.														
0	13.87	33.396	5.90	-	-	-	297.1	0	13.87	33.396	5.90	25.00	297.1	C
10	13.88	33.399	5.88	-	-	-	297.0	10	13.88	33.399	5.88	25.00	297.0	.030
29	13.75	33.426	5.65	-	-	-	292.5	20	13.83	33.406	5.78	25.01	295.6	.059
30	13.74K	33.43 G	-	-	-	-	292.0	30	13.74	33.430	5.55	25.05	292.0	.089
39	12.09	33.471	4.61	-	-	-	258.0	50	11.22	33.546	4.10	25.62	237.2	.142
49	11.28	33.540	4.12	-	-	-	238.7	75	10.36	33.700	3.57	25.90	211.4	.158
62	10.70	33.615	3.94	-	-	-	223.3	100	9.74	33.813	3.15	26.09	193.1	.245
77	10.32	33.713	3.51	-	-	-	209.8	125	9.46	33.894	2.95	26.20	182.7	.257
97	9.79	33.801	-	-	-	-	194.7	150	9.18	33.956	2.80	26.29	173.8	.342
121	9.50	33.883	2.98	-	-	-	184.1	200	8.72	34.029	2.57	26.42	161.5	.428
140	9.32	33.933	2.84	-	-	-	177.6	250	7.98	34.086	2.06	26.58	146.5	.507
170	8.92	33.994	2.74	-	-	-	167.0	300	7.54	34.122	1.67	26.67	137.8	.580
199	8.74	34.027	2.58	-	-	-	161.9	400	6.77	34.206	.84	26.85	121.2	.715
230	8.20	34.072	2.21	-	-	-	150.6	500	5.84	34.263	.39	27.01	105.4	.834
269	7.82	34.095	1.93	-	-	-	143.6							
327	7.32	34.147	1.43	-	-	-	132.9							
401	6.76	34.207	.83	-	-	-	121.0							
474	6.04	34.251	.46	-	-	-	108.8							
552	5.51	34.283	.35	-	-	-	100.2							

77.60							CALCCFI CRUISE 6612							77.60
DAVID STARR JORDAN, DECEMBER 12 1966, 0413 GMT, 34 44N 121 34W, SOUNDING 500 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 09.														
0	14.06	33.343	5.95	-	-	-	304.7	0	14.06	33.343	5.95	24.92	304.7	C
10	14.07	33.339	5.93	-	-	-	305.2	10	14.07	33.339	5.93	24.91	305.2	.031
30	14.05	33.340	5.91	-	-	-	304.7	20	14.06	33.339	5.92	24.91	305.1	.061
50	14.02K	33.34 G	-	-	-	-	304.1	30	14.05	33.340	5.91	24.92	304.7	.092
54	12.88	33.277	5.56	-	-	-	286.8	50	14.02	33.340	5.72	24.92	304.1	.153
63	11.26	33.354	4.78	-	-	-	252.1	75	11.07	33.425	4.54	25.56	243.6	.222
73	11.16	33.408	4.60	-	-	-	246.4	100	10.18	33.670	3.64	25.90	210.7	.279
88	10.42	33.551	4.07	-	-	-	223.4	125	9.62	33.815	3.23	26.11	191.1	.330
102	10.15	33.688	3.57	-	-	-	208.9	150	9.25	33.934	2.86	26.26	176.4	.376
127	9.58	33.823	3.21	-	-	-	189.8	200	8.56	34.037	2.49	26.45	158.5	.462
146	9.31	33.920	2.92	-	-	-	178.4	250	7.96	34.090	1.95	26.59	145.9	.540
170	8.95	33.987	2.64	-	-	-	168.0	300	7.25	34.115	1.53	26.71	134.4	.612
198	8.58	34.033	2.52	-	-	-	159.1	400	6.38	34.181	.73	26.88	118.2	.743
227	8.31	34.088	2.09	-	-	-	151.0	500	5.79	34.254	.37	27.01	105.7	.861
267	7.68	34.093	1.87	-	-	-	141.8							
324	6.99	34.134	1.26	-	-	-	129.5							
397	6.40	34.179	.75	-	-	-	118.6							
470	5.95	34.233	.45	-	-	-	109.1							
549	5.57	34.285	.29	-	-	-	100.7							

INPUT							CLTPUT AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	P-H	SIL	NIT	C*T	Z	T	S	OXY	SIG+T	C*T	CC	
77.70							CALCOFI CRUISE 6612							77.70	
DAVID STARR JORDAN, DECEMBER 11 1966, 2323 GMT, 34 24N 122 16W, SOUNDING 2000+ FM, WIND 350 FORCE 3, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 05.															
0	14.84	33.007	5.94	-	-	-	345.0	0	14.84	33.007	5.94	24.49	345.0	C	
10	14.72	33.007	6.00	-	-	-	342.6	10	14.72	33.007	6.00	24.52	342.6	.034	
20	14.72K	33.02 G	-	-	-	-	341.6	20	14.72	33.020	6.01	24.53	341.6	.069	
30	14.72	33.035	5.99	-	-	-	340.5	30	14.72	33.035	5.99	24.54	340.5	.103	
40	13.79	33.069	5.96	-	-	-	319.5	50	12.18	33.103	5.94	25.10	286.8	.166	
50	12.18	33.103	5.94	-	-	-	286.8	75	10.61	33.141	5.36	25.42	256.9	.234	
64	10.72	33.037	5.68	-	-	-	266.3	100	9.62	33.365	4.64	25.76	224.3	.255	
79	10.55	33.192	5.23	-	-	-	252.1	125	9.56	33.745	3.52	26.07	195.3	.348	
100	9.62	33.365	4.64	-	-	-	224.3	150	9.00	33.902	3.28	26.28	175.0	.355	
125	9.56	33.745	3.52	-	-	-	195.3	200	8.25	34.008	3.02	26.48	156.1	.479	
144	9.12	33.875	3.30	-	-	-	178.8	250	7.58	34.036	2.52	26.60	144.7	.556	
174	8.60	33.973	3.25	-	-	-	163.8	300	6.96	34.057	1.90	26.70	134.8	.628	
203	8.21	34.010	2.99	-	-	-	155.4	400	6.17	34.149	.88	26.88	117.9	.759	
233	7.79	34.029	2.73	-	-	-	148.1	500	5.58	34.231	.41	27.02	104.9	.877	
273	7.31	34.044	2.21	-	-	-	140.4								
331	6.60	34.078	1.58	-	-	-	128.6								
406	6.14	34.156	.83	-	-	-	117.1								
480	5.70	34.216	.48	-	-	-	107.4								
559	5.22	34.271	.29	-	-	-	97.8								

80.52							CALCOFI CRUISE 6612						80.52	
DAVID STARR JORDAN, DECEMBER 10 1966, 1844 GMT, 34 24.5N 120 36.5W, SOUNDING 170 FM, WIND 320 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.														
0	13.30	33.420	5.37	-	-	-	284.3	0	13.30	33.420	5.37	25.13	284.3	C
10	13.28	33.416	5.33	-	-	-	284.2	10	13.28	33.416	5.33	25.13	284.2	.028
20	12.84	33.458	4.92	-	-	-	272.8	20	13.20	33.428	5.19	25.16	281.7	.057
45	11.41	33.540	4.18	-	-	-	240.9	30	12.84	33.458	4.92	25.25	272.8	.085
50	11.31K	33.55 G	-	-	-	-	238.5	50	11.31	33.550	4.08	25.61	238.5	.136
60	11.12	33.587	3.98	-	-	-	232.5	75	10.80	33.651	3.79	25.78	222.3	.154
73	10.85	33.641	3.82	-	-	-	223.9	100	10.28	33.752	3.46	25.95	206.3	.248
87	10.50	33.710	3.62	-	-	-	213.0	125	9.98	33.808	3.26	26.05	197.2	.259
107	10.19	33.769	3.38	-	-	-	203.5	150	9.67	33.875	3.03	26.15	187.3	.348
131	9.91	33.821	3.22	-	-	-	195.2	200	9.20	33.991	2.52	26.32	171.4	.439
149	9.68	33.873	3.04	-	-	-	187.7	250	8.77	34.074	2.04	26.45	158.8	.524
190	9.30	33.963	2.67	-	-	-	175.1							
222	8.99	34.039	2.25	-	-	-	164.7							
255	8.73	34.077	2.02	-	-	-	158.0							

80.55							CALCOFI CRUISE 6612						80.55	
DAVID STARR JORDAN, DECEMBER 10 1966, 2124 GMT, 34 19N 120 48W, SOUNDING 425 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.														
0	14.06	33.381	5.71	-	-	-	301.9	0	14.06	33.381	5.71	24.94	301.9	C
10	14.00	33.380	5.89	-	-	-	300.8	10	14.00	33.380	5.89	24.96	300.8	.030
30	13.88	33.381	5.62	-	-	-	298.4	20	13.94	33.380	5.84	24.97	299.6	.060
40	13.22	33.441	5.27	-	-	-	281.2	30	13.88	33.381	5.62	24.98	298.4	.090
50	11.32K	33.53 G	-	-	-	-	240.1	50	11.32	33.530	4.40	25.59	240.1	.144
55	10.96	33.566	3.95	-	-	-	231.3	75	10.39	33.678	3.36	25.87	213.5	.201
69	10.61	33.641	3.47	-	-	-	219.9	100	9.66	33.814	3.09	26.10	191.7	.252
94	9.76	33.789	3.15	-	-	-	195.1	125	9.27	33.907	2.93	26.24	178.8	.259
113	9.48	33.861	2.99	-	-	-	185.4	150	8.98	33.969	2.81	26.33	169.8	.343
133	9.14	33.934	2.89	-	-	-	174.8	200	8.39	34.062	2.40	26.50	154.1	.426
153	8.96	33.974	2.79	-	-	-	169.1	250	8.05	34.119	1.90	26.60	145.0	.503
183	8.56	34.037	2.53	-	-	-	158.5	300	7.74	34.180	1.39	26.69	136.1	.575
216	8.26	34.081	2.27	-	-	-	150.8	400	6.75	34.218	.93	26.86	120.1	.709
246	8.07	34.113	1.95	-	-	-	145.7	500	6.15	34.289	.48	26.99	107.3	.829
296	7.78	34.178	1.41	-	-	-	136.8	600	5.32	34.290	.43	27.10	97.5	.938
349	7.20	34.194	1.18	-	-	-	127.8							
432	6.52	34.237	.77	-	-	-	115.8							
516	6.04	34.295	.44	-	-	-	105.5							
599	5.33	34.290	.43	-	-	-	97.6							

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	CHY	PHO	SIL	NIT	D*T	Z	T	S	CHY	SIG*T	C*T	DC		
80.60							CALCCFI CRUISE 6612								80.60	
DAVID STARR JORDAN, DECEMBER 11 1966, 0016 GMT, 34 09N 121 09W, SOUNDING 1200 FM, WIND 320 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 08.																
2	14.54	33.379	5.92	-	-	-	311.7	0	14.54	33.379	5.92	24.84	311.7	C		
11	14.44	33.360	5.89	-	-	-	311.0	10	14.45	33.362	5.89	24.85	311.1	.031		
30	14.31K	33.33 G	-	-	-	-	310.6	20	14.36	33.350	5.87	24.86	310.1	.062		
31	14.31	33.326	5.85	-	-	-	310.9	30	14.31	33.330	5.86	24.85	310.6	.093		
41	12.30	33.150	5.66	-	-	-	285.5	50	11.08	33.067	5.57	25.28	270.3	.152		
56	10.56	33.069	5.52	-	-	-	261.3	75	9.84	33.530	4.65	25.85	215.6	.213		
69	10.14	33.289	4.81	-	-	-	238.2	100	9.58	33.642	3.94	25.98	203.2	.265		
75	9.84K	33.53 G	-	-	-	-	215.6	125	9.04	33.810	3.22	26.20	182.5	.314		
93	9.76	33.592	4.26	-	-	-	209.7	150	8.78	33.898	3.08	26.31	172.0	.359		
114	9.20	33.749	3.37	-	-	-	189.4	200	8.12	34.000	2.76	26.49	154.5	.442		
132	8.97	33.842	3.18	-	-	-	179.0	250	7.62	34.072	2.07	26.62	142.6	.519		
151	8.77	33.901	3.07	-	-	-	171.7	300	7.49	34.163	1.33	26.71	134.0	.590		
180	8.34	33.989	2.82	-	-	-	158.8	400	6.69	34.263	.52	26.90	116.0	.720		
214	7.98	34.011	2.68	-	-	-	152.1	500	6.04	34.306	.30	27.02	104.7	.837		
243	7.65	34.058	2.19	-	-	-	144.0	600	5.42	34.341	.21	27.13	94.8	.944		
292	7.54	34.151	1.44	-	-	-	135.5									
344	7.16	34.218	.85	-	-	-	125.4									
428	6.46	34.278	.43	-	-	-	111.9									
512	5.97	34.310	.28	-	-	-	103.5									
594	5.46	34.339	.21	-	-	-	95.4									

80.70							CALCCFI CRUISE 6612							80.70						
DAVID STARR JORDAN, DECEMBER 11 1966, 0529 GMT, 33 48.5N 121 51W, SOUNDING 2054 FM, WIND 330 FORCE 4, WEATHER FCG, SEA MISSING, WIRE ANGLE 06.																				
0	14.66	33.002	5.98	-	-	-	341.7	0	14.66	33.002	5.98	24.53	341.7	0						
10	14.66	32.999	5.99	-	-	-	341.9	10	14.66	32.999	5.99	24.52	341.9	.034						
30	14.65	33.000	5.99	-	-	-	341.7	20	14.66	32.999	5.99	24.53	341.9	.068						
50	14.48K	33.00 G	-	-	-	-	338.2	30	14.65	33.000	5.99	24.53	341.7	.103						
60	13.00	32.959	6.07	-	-	-	312.5	50	14.48	33.000	6.08	24.56	338.2	.171						
69	12.44	33.112	5.95	-	-	-	290.8	75	12.33	33.120	5.88	25.09	288.2	.250						
75	12.33K	33.12 G	-	-	-	-	288.2	100	9.79	33.104	5.37	25.53	246.4	.317						
84	10.27	32.983	5.75	-	-	-	263.0	125	9.95	33.420	4.22	25.75	225.5	.376						
98	9.82	33.082	5.43	-	-	-	248.4	150	9.07	33.777	3.55	26.17	185.4	.428						
113	9.77	33.265	4.91	-	-	-	234.1	200	8.41	34.001	3.10	26.45	159.0	.516						
125	9.95K	33.42 G	-	-	-	-	225.5	250	7.74	34.036	2.53	26.58	146.8	.594						
138	9.46	33.664	3.58	-	-	-	199.7	300	7.12	34.077	1.81	26.70	135.4	.667						
158	8.86	33.821	3.52	-	-	-	178.9	400	6.34	34.171	.83	26.88	118.5	.759						
187	8.52	33.969	3.34	-	-	-	162.9	500	5.68	34.229	.45	27.01	106.2	.917						
216	8.27	34.022	2.79	-	-	-	155.4	600	5.22	34.304	.25	27.12	95.3	1.025						
246	7.80	34.034	2.58	-	-	-	147.8													
296	7.15	34.073	1.86	-	-	-	136.1													
350	6.75	34.128	1.21	-	-	-	126.8													
434	6.08	34.196	.66	-	-	-	113.4													
518	5.58	34.240	.40	-	-	-	104.2													
602	5.21	34.306	.25	-	-	-	95.0													

80.80

CALCCFI CRUISE 6612

80.80

DAVID STARR JORDAN, DECEMBER 11 1966, 1006 GMT, 33 28N 122 31W, SOUNDING 2400 FM, WIND 350 FCRCE 3, WEATHER FOG,
SEA MISSING, WIRE ANGLE 15.

0	15.38	32.813	5.82	-	-	-	370.4	0	15.38	32.813	5.82	24.23	370.4	C
10	15.39	32.812	5.87	-	-	-	370.7	10	15.39	32.812	5.87	24.22	370.7	.037
29	15.24	32.822	5.88	-	-	-	366.8	20	15.35	32.815	5.87	24.23	369.5	.074
58	14.32	32.878	5.96	-	-	-	344.0	30	15.23	32.823	5.88	24.27	366.5	.111
67	13.73	32.917	5.98	-	-	-	329.5	50	14.69	32.855	5.94	24.41	353.1	.183
75	12.30K	32.94 G	-	-	-	-	300.9	75	12.30	32.940	6.03	24.96	300.9	.265
82	11.74	32.917	6.07	-	-	-	292.6	100	10.47	32.920	5.95	25.27	270.9	.337
95	10.84	32.902	6.02	-	-	-	278.3	125	9.75	33.117	5.40	25.55	244.7	.402
100	10.47K	32.92 G	-	-	-	-	270.9	150	9.24	33.479	4.45	25.91	210.0	.460
109	10.16	32.959	5.79	-	-	-	263.0	200	8.71	33.931	3.24	26.35	168.5	.556
133	9.58	33.225	5.15	-	-	-	234.1	250	7.87	34.029	2.56	26.55	149.2	.637
151	9.22	33.494	4.40	-	-	-	208.6	300	7.07	34.017	2.52	26.66	139.3	.712
178	8.97	33.861	3.16	-	-	-	177.6	400	6.09	34.092	1.38	26.85	121.3	.847
206	8.62	33.947	3.30	-	-	-	166.0	500	5.67	34.202	.62	26.99	108.1	.967
234	8.08	34.008	2.76	-	-	-	153.7							
281	7.47	34.040	2.38	-	-	-	142.9							
331	6.46	33.981	2.70	-	-	-	134.1							
411	6.04	34.117	1.12	-	-	-	118.8							
491	5.72	34.195	.66	-	-	-	109.2							
573	5.21	34.251	.32	-	-	-	99.2							

INPUT								CALCUL AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CC		
80.90								CALCOFI CRUISE 6612								80.90
DAVID STARR JORDAN, DECEMBER 11 1966, 1441 GMT, 33 09N 123 13W, SOUNDING 2250 FM, WIND 040 FORCE 2, WEATHER FCG, SEA MODERATE, WIRE ANGLE 03.																
1	15.64	32.878	5.83	-	-	-	371.1	0	15.64	32.878	5.83	24.22	371.1	C		
11	15.64	32.873	5.84	-	-	-	371.5	10	15.64	32.873	5.84	24.21	371.5	.037		
20	15.64K	32.88 G	-	-	-	-	370.9	20	15.64	32.880	5.78	24.22	370.9	.074		
31	15.65	32.885	5.71	-	-	-	370.8	30	15.66	32.885	5.72	24.22	370.9	.111		
50	14.82K	33.23 G	-	-	-	-	328.3	50	14.82	33.230	5.76	24.67	328.3	.162		
62	14.78	33.257	5.82	-	-	-	325.5	75	13.30	33.120	5.83	24.90	306.3	.261		
70	13.71	33.147	5.83	-	-	-	312.2	100	11.08	32.996	5.72	25.22	275.4	.335		
75	13.30K	33.12 G	-	-	-	-	306.3	125	10.50	33.307	5.01	25.57	242.7	.400		
85	11.92	33.028	5.80	-	-	-	287.6	150	9.76	33.612	4.02	25.93	208.3	.457		
101	11.06	32.998	5.71	-	-	-	274.9	200	9.02	33.920	3.03	26.29	174.1	.554		
116	10.86	33.185	5.30	-	-	-	257.7	250	8.34	34.034	2.55	26.49	155.5	.639		
139	9.92	33.489	4.50	-	-	-	219.9	300	7.86	34.118	1.74	26.62	142.4	.716		
159	9.68	33.698	3.67	-	-	-	200.6	400	6.26	34.099	1.37	26.83	122.5	.853		
188	9.14	33.868	3.26	-	-	-	179.7	500	5.56	34.174	.66	26.98	108.9	.975		
218	8.86	33.978	2.72	-	-	-	167.3	600	5.04	34.273	.33	27.12	95.7	1.084		
248	8.36	34.029	2.59	-	-	-	156.1									
296	7.94	34.121	1.73	-	-	-	143.3									
350	6.80	34.055	1.96	-	-	-	132.9									
434	6.04	34.148	.88	-	-	-	116.5									
516	5.46	34.185A	.61	-	-	-	106.9									
601	5.04	34.274A	.33	-	-	-	95.6									

82.47	CALCOFI CRUISE 6612												82.47	
DAVID STARR JORDAN, DECEMBER 10 1966, 1402 GMT, 34 15N 119 59W, SOUNDING 310 FM, WIND MISSING, WEATHER MISSING, SEA SLIGHT, WIRE ANGLE 00.														
1	13.84	33.399	5.76	-	-	-	296.3	0	13.84	33.399	5.76	25.00	296.3	0
12	13.78	33.392	5.70	-	-	-	295.6	10	13.79	33.393	5.71	25.01	295.8	.030
30	13.66	33.394	5.59	-	-	-	293.1	20	13.73	33.392	5.65	25.02	294.6	.059
46	11.94	33.512	4.39	-	-	-	252.3	30	13.66	33.394	5.59	25.04	293.1	.089
56	11.32	33.566	4.07	-	-	-	237.5	50	11.66	33.533	4.24	25.53	245.9	.143
70	10.64	33.678	3.59	-	-	-	217.6	75	10.50	33.703	3.52	25.88	213.4	.200
85	10.28	33.745	3.43	-	-	-	206.8	100	9.96	33.821	3.17	26.06	196.0	.252
100	9.96	33.821	3.17	-	-	-	196.0	125	9.52	33.919	2.94	26.21	181.7	.300
125	9.52	33.919	2.94	-	-	-	181.7	150	9.28	33.982	2.72	26.30	173.4	.345
144	9.32	33.971	2.74	-	-	-	174.8	200	9.08	34.028	2.50	26.37	166.8	.432
175	9.18	34.012	2.67	-	-	-	169.6	250	8.53	34.134	1.57	26.53	150.8	.513
203	9.06	34.031	2.47	-	-	-	166.4	300	8.12	34.192	.96	26.64	140.6	.589
233	8.68	34.099	1.90	-	-	-	155.6	400	7.19	34.228	.49	26.81	125.2	.727
272	8.36	34.170	1.20	-	-	-	145.7	500	6.56	34.246	.20	26.91	115.6	.854
330	7.86	34.203	.82	-	-	-	136.1							
385	7.32	34.221	.56	-	-	-	127.4							
444	6.87	34.242	.32	-	-	-	119.9							
504	6.54	34.246	.19	-	-	-	115.3							

83.43			CALCOFI CRUISE 6612												83.43		
DAVID STARR JORDAN, DECEMBER 10 1966, 0912 GMT, 34 08N 119 34W, SOUNDING 135 FM, WIND 280 FORCE 3, WEATHER MISSING, SEA MISSING, WIRE ANGLE 02.																	
0	14.34	33.277	5.66	-	-	-	315.1	0	14.34	33.277	5.66	24.81	315.1	0			
10	14.23	33.276	5.55	-	-	-	313.0	10	14.23	33.276	5.55	24.83	313.0	.031			
30	14.10	33.312	5.53	-	-	-	307.8	20	14.16	33.295	5.54	24.86	310.2	.063			
45	13.60	33.297	5.51	-	-	-	299.1	30	14.10	33.312	5.53	24.88	307.8	.094			
50	12.61K	33.30 G	-	-	-	-	280.1	50	12.61	33.300	5.37	25.17	280.1	.153			
56	12.18	33.325	5.15	-	-	-	270.4	75	11.09	33.479	4.50	25.60	240.0	.218			
69	11.40	33.433	4.69	-	-	-	248.7	100	9.90	33.758	3.56	26.02	199.6	.273			
85	10.62	33.566	4.17	-	-	-	225.6	125	9.03	34.015	2.80	26.36	167.2	.320			
104	9.72	33.811	3.40	-	-	-	192.9	150	8.84	34.067	2.33	26.43	160.4	.361			
129	8.95	34.041	2.71	-	-	-	164.0	200	8.56	34.118	2.01	26.52	152.4	.441			
150	8.84	34.067	2.33	-	-	-	160.4										
179	8.68	34.087	2.34	-	-	-	156.5										
203	8.54	34.123	1.94	-	-	-	151.8										

83.51	CALCOFI CRUISE 6612													83.51
DAVID STARR JORDAN, DECEMBER 10 1966, 0510 GMT, 33 52N 120 07.5W, SOUNDING 60 FM, WIND 070 FCRCE 1, WEATHER MISSING, SEA MISSING, WIRE ANGLE 01.														
C	13.98	33.441	5.63	-	-	-	295.9	0	13.98	33.441	5.63	25.01	295.9	0
10	13.90	33.439	5.60	-	-	-	294.5	10	13.90	33.439	5.60	25.02	294.5	.030
20	13.78K	33.44 G	-	-	-	-	292.1	20	13.78	33.440	5.52	25.05	292.1	.059
25	13.54	33.443	5.47	-	-	-	287.2	30	13.37	33.445	5.41	25.14	283.8	.088
35	13.26	33.448	5.34	-	-	-	281.4	50	12.35	33.530	4.86	25.40	258.4	.142
45	13.20	33.465	5.23	-	-	-	279.0	75	10.68	33.626	3.90	25.78	222.1	.203
50	12.35K	33.53 G	-	-	-	-	258.4	100	10.56	33.680	3.72	25.85	216.1	.258
60	11.20	33.606	4.09	-	-	-	232.4							
74	10.70	33.624	3.91	-	-	-	222.6							
99	10.56	33.677	3.72	-	-	-	216.4							

A) SALINITY BOTTLES AT 516 AND 601 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

INPUT							CLTPUT AT STANDARE LEVELS OF DEPTH									
Z	T	S	QXY	PHO	SIL	NIT	D*T	Z	T	S	QXY	SIG*T	D*T	CC		
83.55							CALCOFI CRUISE 6612								83.55	
DAVID STARR JORDAN, DECEMBER 10 1966, 0301 GMT, 33 45N 120 21W, SOUNDING 500 FM, WIND 330 FORCE 3, WEATHER MISSING, SEA RCLGH, WIRE ANGLE 13.																
0	14.50	33.481	5.73	-	-	-	303.4	0	14.50	33.481	5.73	24.93	303.4	0		
12	14.46	33.476	5.72	-	-	-	302.9	10	14.47	33.476	5.72	24.93	303.1	.030		
27	14.40	33.478	5.66	-	-	-	301.6	20	14.43	33.477	5.69	24.94	302.3	.061		
39	14.34	33.477	5.63	-	-	-	300.5	30	14.39	33.474	5.65	24.95	301.6	.091		
53	11.42	33.592	4.12	-	-	-	237.3	50	12.08	33.567	4.46	25.48	250.7	.146		
67	10.85	33.595	3.92	-	-	-	227.3	75	10.53	33.638	3.72	25.82	216.7	.205		
91	9.98	33.744	3.35	-	-	-	202.0	100	9.79	33.782	3.26	26.06	196.2	.258		
111	9.62	33.822	3.17	-	-	-	190.5	125	9.39	33.877	3.01	26.20	182.8	.306		
130	9.32	33.894	2.96	-	-	-	180.5	150	9.18	33.926	2.94	26.27	176.0	.351		
150	9.18	33.926	2.94	-	-	-	176.0	200	8.44	34.083	2.10	26.51	153.3	.425		
178	8.65	34.035	2.38	-	-	-	159.9	250	8.04	34.150	1.63	26.62	142.6	.511		
211	8.36	34.099	1.99	-	-	-	150.9	300	7.69	34.194	1.28	26.71	134.4	.583		
239	8.13	34.138	1.73	-	-	-	144.7	400	6.75	34.235	.74	26.87	118.9	.715		
288	7.76	34.185	1.34	-	-	-	136.0	500	5.97	34.281	.42	27.01	105.7	.833		
336	7.46	34.215	1.12	-	-	-	129.7	600	5.67	34.327	.40	27.08	98.8	.942		
422	6.50	34.241	.62	-	-	-	115.2									
502	5.96	34.282	.42	-	-	-	105.5									
586	5.69	34.321	.40	-	-	-	99.4									

83.60				CALCOFI CRUISE 6612										83.60			
DAVID STARR JORDAN, DECEMBER 9 1966, 2340 GMT, 33 33N 120 45W, SOUNDING 950 FM, WIND 330 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 18.																	
1	15.38	33.359	5.87	-	-	-	330.4	0	15.38	33.359	5.87	24.65	330.4	0			
10	15.34	33.356	5.87	-	-	-	329.8	10	15.34	33.356	5.87	24.65	329.8	.033			
20	15.23K	33.35 G	-	-	-	-	328.0	20	15.23	33.350	5.87	24.67	328.0	.066			
28	15.18	33.348	5.86	-	-	-	327.1	30	15.18	33.350	5.86	24.68	326.9	.099			
30	15.18K	33.35 G	-	-	-	-	326.9	50	15.17	33.370	5.80	24.70	325.3	.164			
50	15.17K	33.37 G	-	-	-	-	325.3	75	11.58	33.270	5.17	25.35	263.8	.238			
58	14.07	33.257	5.77	-	-	-	311.2	100	10.51	33.511	4.24	25.72	227.8	.300			
66	12.20	33.170	5.53	-	-	-	282.2	125	9.57	33.748	3.62	26.07	195.2	.354			
75	11.58K	33.27 G	-	-	-	-	263.8	150	9.18	33.874	3.45	26.23	179.8	.401			
83	11.14	33.355	4.83	-	-	-	249.9	200	8.57	34.026	2.62	26.44	159.5	.488			
98	10.61	33.488	4.32	-	-	-	231.2	250	8.02	34.124	1.94	26.60	144.2	.565			
111	9.96	33.636	3.85	-	-	-	209.6	300	7.58	34.170	1.60	26.71	134.6	.637			
135	9.40	33.806	3.55	-	-	-	188.3	400	6.70	34.258	.77	26.90	116.4	.768			
153	9.14	33.885	3.43	-	-	-	178.4	500	5.95	34.276	.26	27.01	105.8	.886			
180	8.74	33.978	2.98	-	-	-	165.5										
208	8.51	34.043	2.48	-	-	-	157.3										
235	8.17	34.106	2.02	-	-	-	147.7										
282	7.73	34.149	1.82	-	-	-	138.3										
333	7.30	34.208	1.17	-	-	-	128.1										
412	6.59	34.264	.73	-	-	-	114.6										
493	5.99	34.273	.27	-	-	-	106.6										
575	5.66	34.340	.55	-	-	-	97.6										

83.70				CALCOFI CRUISE 6612										83.70			
DAVID STARR JORDAN, DECEMBER 9 1966, 1835 GMT, 33 14.5N 121 26W, SOUNDING 2000 FM, WIND 340 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 06.																	
0	15.56	33.284	5.71	-	-	-	339.7	0	15.56	33.284	5.71	24.55	339.7	0			
10	15.54	33.290	5.81	-	-	-	338.9	10	15.54	33.290	5.81	24.56	338.9	.034			
20	15.56K	33.29 G	-	-	-	-	339.3	20	15.56	33.290	5.82	24.55	339.3	.068			
30	15.56	33.290	5.77	-	-	-	339.3	30	15.56	33.290	5.77	24.55	339.3	.102			
50	13.40K	33.28 G	-	-	-	-	296.5	50	13.40	33.280	5.60	25.00	296.5	.166			
60	11.78	33.305	5.48	-	-	-	264.7	75	11.02	33.416	4.77	25.56	243.3	.234			
69	11.33	33.374	4.98	-	-	-	251.8	100	9.96	33.717	3.95	25.98	203.7	.250			
84	10.57	33.496	4.52	-	-	-	229.9	125	9.57	33.794	3.27	26.10	191.8	.340			
98	10.00	33.705	4.04	-	-	-	205.2	150	9.05	33.899	3.04	26.27	176.0	.387			
113	9.80	33.754	3.39	-	-	-	198.4	200	8.42	34.021	2.75	26.46	157.7	.472			
138	9.30	33.843	3.15	-	-	-	184.0	250	7.88	34.072	2.16	26.58	146.1	.549			
158	8.90	33.935	2.97	-	-	-	171.1	300	7.36	34.127	1.60	26.70	134.9	.622			
187	8.56	34.005	2.84	-	-	-	160.8	400	6.89	34.261	.66	26.87	118.7	.754			
216	8.26	34.035	2.61	-	-	-	154.3	500	5.78	34.263	.42	27.02	104.8	.872			
246	7.93	34.068	2.20	-	-	-	147.1	600	5.26	34.325	.35	27.13	94.2	.978			
296	7.38	34.120	1.66	-	-	-	135.7										
350	7.22	34.217	.96	-	-	-	126.3										
434	6.59	34.273	.56	-	-	-	114.0										
518	5.62	34.267	.39	-	-	-	102.6										
602	5.26	34.327	.35	-	-	-	94.0										

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	C*T	EE			
83.80								CALCOFI CRUISE 6612								83.80	
DAVID STARR JORDAN, DECEMBER 9 1966, 1342 GMT, 32 54N 122 08W, SOUNDING 230C FM, WIND 330 FORCE 3, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 12.																	
1	14.80	33.096	5.88	-	-	-	337.7	0	14.80	33.096	5.88	24.57	337.7	0			
11	14.76	33.087	5.88	-	-	-	337.5	10	14.76	33.087	5.88	24.57	337.5	.034			
20	14.77K	33.09 G	-	-	-	-	337.5	20	14.77	33.090	5.89	24.57	337.5	.068			
30	14.78	33.086	5.89	-	-	-	338.0	30	14.78	33.086	5.89	24.57	338.0	.101			
50	13.00K	33.14 G	-	-	-	-	299.1	50	13.00	33.140	5.87	24.97	299.1	.165			
55	12.59	33.100	5.85	-	-	-	294.5	75	11.10	33.040	5.57	25.25	272.5	.237			
63	11.88	33.048	5.78	-	-	-	285.5	100	10.85	33.540	4.17	25.69	231.4	.361			
73	11.10	33.043	5.61	-	-	-	272.3	125	9.78	33.703	3.35	26.00	201.8	.355			
75	11.10K	33.04 G	-	-	-	-	272.5	150	9.25	33.877	2.95	26.22	180.6	.404			
87	9.88	33.158	5.16	-	-	-	243.8	200	8.30	33.987	3.05	26.45	158.4	.450			
100	10.85K	33.54 G	-	-	-	-	231.4	250	7.60	34.044	2.34	26.60	144.3	.568			
102	10.74	33.559	4.01	-	-	-	228.1	300	7.10	34.095	1.64	26.71	133.8	.629			
125	9.78	33.703	3.35	-	-	-	201.8	400	6.44	34.198	.76	26.88	117.7	.770			
144	9.39	33.854	2.89	-	-	-	184.5	500	5.74	34.252	.43	27.02	105.1	.888			
168	8.83	33.919	3.22	-	-	-	171.2										
194	8.40	33.978	3.09	-	-	-	160.5										
223	7.95	34.016	2.82	-	-	-	151.3										
260	7.48	34.053	2.15	-	-	-	142.0										
318	6.96	34.115	1.46	-	-	-	130.5										
389	6.53	34.191	.82	-	-	-	119.3										
462	5.98	34.233	.52	-	-	-	109.4										
541	5.51	34.271	.38	-	-	-	101.1										

87.35							CALCOFI CRUISE 6612							87.35						
DAVID STARR JORDAN, DECEMBER 8 1966, 0418 GMT, 33 50N 118 37.5W, SOUNDING 350 FM, WIND 280 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 07.																				
0	15.48	33.385	5.61	-	-	-	330.6	0	15.48	33.385	5.61	24.64	330.6	0						
10	15.48	33.381	5.62	-	-	-	330.9	10	15.48	33.381	5.62	24.64	330.9	.033						
20	15.44K	33.38 G	-	-	-	-	330.2	20	15.44	33.380	5.49	24.65	330.2	.066						
30	14.08	33.363	5.24	-	-	-	303.6	30	14.08	33.363	5.24	24.93	303.6	.098						
40	13.00	33.352	4.88	-	-	-	283.6	50	12.41	33.401	4.83	25.29	269.0	.155						
55	12.20	33.435	4.79	-	-	-	262.7	75	11.29	33.544	4.27	25.61	238.6	.219						
69	11.52	33.504	4.45	-	-	-	245.5	100	10.70	33.691	3.70	25.83	217.7	.277						
93	10.80	33.661	3.80	-	-	-	221.6	125	10.41	33.790	3.40	25.96	205.5	.330						
113	10.56	33.739	3.55	-	-	-	211.8	150	10.05	33.883	3.11	26.09	192.8	.381						
133	10.30	33.823	3.30	-	-	-	201.3	200	9.27	34.038	2.74	26.34	169.0	.473						
153	10.00	33.893	3.08	-	-	-	191.3	250	8.82	34.103	2.34	26.46	157.4	.557						
182	9.51	34.006	2.81	-	-	-	175.1	300	8.34	34.171	1.70	26.59	145.3	.635						
217	9.08	34.057	2.68	-	-	-	164.7	400	7.42	34.242	.95	26.78	127.1	.777						
246	8.86	34.097	2.39	-	-	-	158.5	500	6.47	34.306	.54	26.97	110.0	.902						
295	8.38	34.165	1.75	-	-	-	146.3	600	5.64	34.371	.29	27.12	95.1	1.012						
348	7.96	34.215	1.31	-	-	-	136.6													
431	7.08	34.255	.77	-	-	-	121.6													
515	6.34	34.316	.50	-	-	-	107.6													
598	5.66	34.370	.29	-	-	-	95.4													

87.40	CALCOFI CRUISE 6612												87.40	
DAVID STARR JORDAN, DECEMBER 8 1966, 07 53 GMT, 33 40N 118 58W, SOUNDING 480 FM, WIND 300 FORCE 5, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 08.														
0	15.72	33.490	5.78	-	-	-	328.1	0	15.72	33.490	5.78	24.67	328.1	0
10	15.64	33.484	5.74	-	-	-	326.8	10	15.64	33.484	5.74	24.68	326.8	.033
20	15.58K	33.48 G	-	-	-	-	325.8	20	15.58	33.480	5.67	24.69	325.8	.065
30	14.88	33.447	5.58	-	-	-	313.6	30	14.88	33.447	5.58	24.82	313.6	.097
40	13.40	33.441	5.13	-	-	-	284.6	50	12.25	33.432	4.82	25.35	263.7	.155
55	11.80	33.434	4.71	-	-	-	255.6	75	11.04	33.490	4.37	25.61	238.3	.219
68	11.09	33.483	4.51	-	-	-	239.6	100	9.95	33.645	3.75	25.92	208.8	.275
75	11.04K	33.49 G	-	-	-	-	238.3	125	9.55	33.832	3.32	26.14	188.6	.325
94	10.07	33.596	3.92	-	-	-	214.4	150	9.30	33.928	3.17	26.25	177.7	.372
113	9.79	33.753	3.44	-	-	-	198.3	200	8.69	34.078	2.57	26.47	157.3	.457
132	9.42	33.869	3.29	-	-	-	183.9	250	8.26	34.179	1.56	26.61	143.5	.524
153	9.28	33.935	3.15	-	-	-	176.8	300	7.81	34.212	1.18	26.70	134.8	.606
182	8.72	34.016	3.06	-	-	-	162.4	400	6.93	34.258	.71	26.87	119.4	.739
215	8.63	34.125	2.11	-	-	-	153.0	500	6.34	34.316	.37	26.99	107.7	.859
244	8.31	34.172	1.63	-	-	-	144.8	600	5.74	34.365	.28	27.11	96.6	.968
293	7.89	34.212	1.20	-	-	-	135.8							
346	7.32	34.212	1.05	-	-	-	128.0							
429	6.76	34.287	.52	-	-	-	115.1							
514	6.26	34.322	.35	-	-	-	106.2							
596	5.76	34.363	.28	-	-	-	97.1							

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	CXY	P+Q	SIL	NIT	D+T	Z	T	S	CXY	SIG+T	D+T	CC		
87.45							CALCOFI CRUISE 6612								87.45	
DAVID STARR JORDAN, DECEMBER 8 1966, 1136 GMT, 33 30N 119 19W, SOUNDING 910 FM, WIND 300 FORCE 5, WEATHER MISSING, SEA MISSING, WIRE ANGLE 05.																
1	14.95	33.494	5.60	-	-	-	311.6	0	14.95	33.494	5.60	24.84	311.6	0		
11	14.97	33.488	5.69	-	-	-	312.5	10	14.97	33.488	5.68	24.83	312.5	.031		
20	-	-	5.73G	-	-	-	-	20	14.92	33.504	5.73	24.86	310.2	.062		
30	-	-	5.78G	-	-	-	-	30	14.87	33.504	5.78	24.87	309.3	.093		
31	14.81	33.503	5.79	-	-	-	308.1	50	12.39	33.430	4.81	25.32	266.5	.151		
41	13.10	33.441	5.02	-	-	-	278.9	75	11.05	33.531	4.23	25.64	235.4	.214		
51	12.34	33.429	4.79	-	-	-	265.7	100	10.08	33.714	3.85	25.96	205.8	.270		
65	11.72	33.447	4.65	-	-	-	253.2	125	9.66	33.829	3.32	26.12	190.6	.320		
80	10.72	33.580	4.02	-	-	-	226.2	150	9.22	33.936	3.12	26.27	175.8	.367		
100	10.08	33.714	3.85	-	-	-	205.8	200	8.71	34.076	2.42	26.46	157.8	.452		
125	9.66	33.829	3.32	-	-	-	190.6	250	8.22	34.161	1.77	26.60	144.3	.529		
144	9.29	33.911	3.21	-	-	-	178.8	300	7.78	34.204	1.41	26.70	134.9	.601		
173	9.00	34.018	2.74	-	-	-	166.4	400	7.01	34.260	.93	26.86	120.3	.734		
203	8.68	34.081	2.38	-	-	-	157.0	500	6.39	34.304	.45	26.97	109.1	.856		
232	8.38	34.135	1.92	-	-	-	148.6	600	5.74	34.348	.34	27.09	98.0	.967		
273	8.02	34.186	1.64	-	-	-	139.6									
333	7.50	34.220	1.15	-	-	-	129.9									
408	6.96	34.265	.91	-	-	-	119.3									
483	6.50	34.297	.50	-	-	-	111.0									
561	6.00	34.331	.39	-	-	-	102.3									

87.50				CALCOFI CRUISE 6612										87.50			
DAVID STARR JORDAN, DECEMBER 8 1966, 1459 GMT, 33 20N 119 39.5W, SCLNDING 40 FM, WIND 300 FORCE 7, WEATHER CLEAR, SEA VERY RUGH, WIRE ANGLE 15.																	
1	15.46	33.504	5.72	-	-	-	321.5	0	15.46	33.504	5.72	24.74	321.5				
11	15.47	33.504	5.68	-	-	-	321.7	10	15.47	33.504	5.68	24.74	321.7	.032			
20	15.48	33.504	5.67	-	-	-	321.9	20	15.48	33.504	5.67	24.73	321.5	.064			
30	15.42	33.504	5.81	-	-	-	320.7	30	15.42	33.504	5.81	24.75	320.7	.097			
39	14.96	33.496	5.50	-	-	-	311.7	50	13.44	33.486	5.02	25.15	282.1	.157			
49	13.62	33.487	5.07	-	-	-	285.5										

87.60				CALCOFI CRUISE 6612										87.60			
DAVID STARR JORDAN, DECEMBER 8 1966, 2117 GMT, 33 04N 120 19W, SOUNDING 350 FM, WIND 310 FORCE 6, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 04.																	
0	15.10	33.467	5.74	-	-	-	316.7	0	15.10	33.467	5.74	24.79	316.7	0			
10	15.10	33.465	5.75	-	-	-	316.8	10	15.10	33.465	5.75	24.79	316.8	.032			
20	15.10K	33.46 G	5.75G	-	-	-	317.2	20	15.10	33.460	5.75	24.78	317.2	.063			
30	15.10	33.465	5.75	-	-	-	316.8	30	15.10	33.465	5.75	24.79	316.8	.095			
40	13.70	33.324	5.59	-	-	-	299.0	50	12.74	33.296	5.49	25.15	282.8	.155			
55	12.38	33.304	5.45	-	-	-	275.6	75	11.30	33.531	4.24	25.60	239.7	.221			
69	11.63	33.525	4.28	-	-	-	245.9	100	10.24	33.581	3.91	25.82	218.2	.279			
95	10.38	33.520	4.12	-	-	-	225.0	125	9.75	33.812	3.17	26.09	193.3	.331			
114	9.94	33.759	3.33	-	-	-	200.2	150	9.29	33.896	2.93	26.23	179.9	.378			
135	9.59	33.838	3.11	-	-	-	188.8	200	8.57	34.042	2.47	26.46	158.3	.464			
155	9.19	33.915	2.87	-	-	-	176.9	250	8.14	34.119	1.89	26.58	146.3	.542			
185	8.66	34.025	2.54	-	-	-	160.8	300	7.77	34.163	1.41	26.67	137.8	.616			
218	8.50	34.055	2.37	-	-	-	156.2	400	6.85	34.261	.67	26.88	118.3	.749			
247	8.16	34.115	1.92	-	-	-	146.9	500	6.15	34.310	.52	27.01	105.7	.868			
297	7.80	34.160	1.44	-	-	-	138.5	600	5.79	34.336	.32	27.08	99.4	.977			
349	7.30	34.215	.99	-	-	-	127.5										
431	6.61	34.283	.55	-	-	-	113.5										
515	6.07	34.315	.50	-	-	-	104.4										
598	5.79	34.336	.33	-	-	-	99.5										

87.70				CALCOFI CRUISE 6612										87.70			
DAVID STARR JORDAN, DECEMBER 9 1966, 0346 GMT, 32 39.5N 121 02W, SCUNDING 2100 FM, WIND 320 FORCE 6, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 07.																	
1	15.34	33.191	5.76	-	-	-	341.9	0	15.34	33.191	5.76	24.53	341.9	0			
11	15.36	33.190	5.86	-	-	-	342.4	10	15.36	33.190	5.85	24.52	342.4	.034			
20	15.40K	33.20 G	-	-	-	-	342.5	20	15.40	33.200	5.87	24.52	342.5	.069			
31	15.45	33.268	5.84	-	-	-	338.6	30	15.46	33.261	5.84	24.55	339.2	.103			
50	14.40K	33.28 G	-	-	-	-	316.1	50	14.40	33.280	6.04	24.80	316.1	.168			
61	12.70	33.123	5.93	-	-	-	294.8	75	11.77	33.207	5.36	25.26	271.8	.242			
70	12.03	33.180	5.45	-	-	-	278.4	100	10.36	33.380	4.72	25.65	235.0	.306			
85	11.29	33.263	5.25	-	-	-	259.3	125	9.77	33.630	4.17	25.94	207.1	.362			
99	10.40	33.370	4.73	-	-	-	236.4	150	9.37	33.824	3.28	26.16	186.4	.412			
114	9.90	33.527	4.67	-	-	-	216.8	200	8.59	34.025	2.64	26.44	159.7	.500			
139	9.64	33.745	3.47	-	-	-	196.5	250	7.76	34.068	2.22	26.60	144.8	.578			
158	9.16	33.874	3.21	-	-	-	179.5	300	7.18	34.103	1.66	26.71	134.3	.650			
187	8.76	33.986	2.87	-	-	-	165.2	400	6.31	34.189	1.08	26.89	116.8	.781			
217	8.34	34.060	2.38	-	-	-	153.5	500	5.78	34.266	.47	27.02	104.6	.857			
246	7.82	34.066	2.27	-	-	-	145.7	600	5.24	34.322	.39	27.13	94.1	1.003			
297	7.22	34.102	1.67	-	-	-	134.9										
348	6.67	34.127	1.57	-	-	-	125.9										
433	6.14	34.230	.74	-	-	-	111.6										
519	5.68	34.276	.42	-	-	-	102.7										
603	5.22	34.324	.39	-	-	-	93.8										

INPUT

CLUTPL AT STANDARD LEVELS OF DEPTH

Z	T	S	CXY	P-C	SIL	NIT	C+T	Z	T	S	CXY	SIG+T	C+T	CC		
87.80								CALCCFI CRUISE 6612								87.80
DAVID STARR JORDAN, DECEMBER 9 1966, 0837 GMT, 32 19.5N 121 43W, SOUNDING 2100 FM, WIND 320 FORCE 5, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 03.																
0	15.90	33.438	5.74	-	-	-	335.7	0	15.90	33.438	5.74	24.59	335.7	C		
10	15.86	33.438	5.76	-	-	-	334.8	10	15.86	33.438	5.76	24.60	334.8	.034		
20	15.87K	33.44 G	-	-	-	-	334.9	20	15.87	33.440	5.76	24.60	334.9	.067		
30	15.88	33.439	5.74	-	-	-	335.2	30	15.88	33.439	5.74	24.60	335.2	.101		
50	15.49K	33.45 G	-	-	-	-	326.1	50	15.49	33.450	5.14	24.69	326.1	.167		
61	12.40	33.423	4.70	-	-	-	267.2	75	11.05	33.500	4.15	25.62	237.7	.238		
69	11.28	33.408	4.42	-	-	-	248.4	100	9.98	33.766	3.25	26.01	200.3	.293		
75	11.05K	33.50 G	-	-	-	-	237.7	125	9.25	33.912	2.91	26.25	178.1	.341		
84	10.72	33.635	3.75	-	-	-	222.2	150	8.93	33.988	2.74	26.36	167.5	.365		
100	9.98	33.766	3.25	-	-	-	200.3	200	8.27	34.045	2.48	26.50	153.7	.467		
114	9.50	33.862	3.00	-	-	-	185.7	250	7.70	34.100	1.94	26.63	141.5	.542		
139	9.04	33.957	2.83	-	-	-	171.5	300	7.37	34.160	1.40	26.73	132.6	.613		
159	8.84	34.007	2.67	-	-	-	164.8	400	6.31	34.186	.86	26.89	116.9	.743		
188	8.42	34.024	2.67	-	-	-	157.4	500	5.56	34.256	.46	27.04	102.8	.859		
217	8.08	34.075	2.17	-	-	-	148.7	600	5.13	34.316	.49	27.14	93.4	.963		
247	7.72	34.096	1.97	-	-	-	142.1									
297	7.40	34.158	1.43	-	-	-	133.1									
352	6.80	34.179	1.03	-	-	-	123.7									
436	5.98	34.189	.77	-	-	-	112.7									
520	5.45	34.272	.42	-	-	-	100.3									
604	5.12	34.317	.50	-	-	-	93.2									

90.28							CALCCFI CRUISE 6612							90.28						
DAVID STARR JORDAN, DECEMBER 7 1966, 0911 GMT, 33 28.5N 117 46.5W, SOUNDING 200 FM, WIND 270 FORCE 5, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 06.																				
1	16.62	33.415	5.76	-	-	-	353.0	0	16.62	33.415	5.76	24.41	353.0	C						
11	16.61	33.411	5.75	-	-	-	353.1	10	16.61	33.412	5.75	24.41	353.2	.035						
31	16.36	33.392	5.89	-	-	-	349.0	20	16.52	33.399	5.87	24.42	352.0	.071						
46	13.44	33.421	5.30	-	-	-	286.9	30	16.43	33.392	5.89	24.44	350.4	.106						
61	12.16	33.450	4.62	-	-	-	260.9	50	12.98	33.428	5.10	25.20	277.6	.169						
74	11.74	33.491	4.43	-	-	-	250.3	75	11.71	33.495	4.41	25.50	249.5	.225						
89	11.34	33.555	4.14	-	-	-	238.6	100	11.14	33.596	4.00	25.68	232.1	.256						
108	10.99	33.630	3.90	-	-	-	227.1	125	10.53	33.736	3.53	25.90	211.4	.352						
133	10.30	33.791	3.34	-	-	-	203.7	150	9.94	33.893	3.04	26.12	190.3	.403						
153	9.88	33.909	3.00	-	-	-	188.2	200	9.26	34.037	2.65	26.34	165.0	.454						
196	9.30	34.029	2.68	-	-	-	170.2	250	8.82	34.117	2.23	26.48	156.4	.578						
231	9.00	34.087	2.41	-	-	-	161.3	300	8.30	34.186	1.57	26.61	143.5	.655						
265	8.67	34.139	2.06	-	-	-	152.5													
304	8.25	34.191	1.50	-	-	-	142.5													

90.32							CALCCFI CRUISE 6612							90.32						
DAVID STARR JORDAN, DECEMBER 7 1966, 0632 GMT, 33 20.5N 118 01.5W, SCUNDING 410 FM, WIND 280 FORCE 5, WEATHER MISSING, SEA RUGH, WIRE ANGLE 03.																				
0	15.21	33.279	5.82	-	-	-	332.7	0	15.21	33.279	5.82	24.62	332.7	0						
10	15.22	33.277	5.83	-	-	-	333.1	10	15.22	33.277	5.83	24.62	333.1	.033						
20	14.30K	33.28 G	-	-	-	-	314.1	20	14.30	33.280	5.57	24.82	314.1	.066						
30	12.18	33.319	5.11	-	-	-	270.9	30	12.18	33.319	5.11	25.27	270.9	.095						
40	12.00	33.462	4.50	-	-	-	257.1	50	11.70	33.517	4.22	25.51	247.7	.147						
55	11.52	33.531	4.15	-	-	-	243.5	75	10.86	33.646	3.78	25.77	223.7	.206						
69	11.02	33.614	3.92	-	-	-	228.8	100	10.27	33.763	3.37	25.96	205.3	.260						
93	10.44	33.733	3.41	-	-	-	210.3	125	9.81	33.898	3.05	26.14	187.8	.310						
113	9.99	33.823	3.29	-	-	-	196.3	150	9.50	33.992	2.80	26.27	176.1	.356						
132	9.72	33.939	2.91	-	-	-	183.4	200	8.80	34.077	2.42	26.45	159.2	.442						
152	9.48	33.996	2.79	-	-	-	175.4	250	8.39	34.156	1.80	26.57	147.1	.520						
181	9.04	34.048	2.64	-	-	-	164.8	300	8.01	34.215	1.24	26.68	137.2	.594						
214	8.66	34.097	2.23	-	-	-	155.5	400	7.14	34.261	.66	26.84	122.0	.729						
243	8.44	34.145	1.89	-	-	-	148.7	500	6.39	34.304	.73	26.97	109.1	.851						
292	8.06	34.209	1.30	-	-	-	138.5	600	5.90	34.341	.24	27.07	100.4	.964						
345	7.68	34.238	.98	-	-	-	131.0													
427	6.88	34.271	.56	-	-	-	117.8													
512	6.32	34.309	.72	-	-	-	107.9													
596	5.92	34.340	.28	-	-	-	100.7													

INPUT								CALCULATED AT STANDARD LEVELS OF DEPTH								
Z	T	S	QXY	PFC	SIL	NIT	DWT	Z	T	S	QXY	SIL+T	DWT	CC		
90.37								CALCEFI CRUISE #612								90.37
DAVID STARR JORDAN, DECEMBER 7 1966, 0334 GMT, 33 11N 118 22.5W, SOUNDING 690 FM, WIND 220 FORCE 5, WEATHER DRIZZLE, SEA MISSING, WIRE ANGLE 25.																
0	16.53	33.488	5.74	-	-	-	345.7	0	16.53	33.488	5.74	24.48	345.7	C		
10	16.53K	33.49 G	-	-	-	-	345.6	10	16.53	33.490	5.77	24.49	345.6	.035		
20	16.54K	33.49 G	-	-	-	-	345.8	20	16.54	33.490	5.77	24.48	345.8	.069		
21	16.54	33.488	5.77	-	-	-	346.1	30	16.32	33.474	5.76	24.52	342.2	.104		
32	16.18	33.468	5.75	-	-	-	339.5	50	13.40	33.277	5.61	25.00	296.7	.168		
44	14.12	33.340	5.65	-	-	-	306.1	75	11.78	33.436	4.68	25.44	255.0	.237		
57	12.76	33.235	5.57	-	-	-	287.7	100	10.22	33.531	4.21	25.79	221.6	.257		
79	11.60	33.493	4.48	-	-	-	247.7	125	9.80	33.768	3.51	26.04	197.3	.350		
96	10.35	33.497	4.35	-	-	-	226.2	150	9.45	33.922	3.31	26.22	180.4	.358		
114	9.96	33.676	3.67	-	-	-	206.7	200	8.72	34.041	2.98	26.43	160.5	.485		
140	9.61	33.871	3.40	-	-	-	186.7	250	8.27	34.133	2.06	26.57	147.1	.564		
166	9.20	33.986	3.12	-	-	-	171.8	300	7.93	34.190	1.55	26.67	138.0	.628		
173	9.12	34.012	2.99	-	-	-	168.7	400	6.94	34.239	.91	26.85	121.0	.773		
200	8.72	34.041	2.98	-	-	-	160.5	500	6.26	34.299	.49	26.99	107.9	.854		
226	8.41	34.087	2.47	-	-	-	152.6									
270	8.18	34.166	1.79	-	-	-	143.4									
327	7.67	34.202	1.41	-	-	-	133.5									
415	6.80	34.247	.82	-	-	-	118.6									
494	6.30	34.295	.51	-	-	-	108.7									
563	5.90	34.342	.41	-	-	-	100.3									

90.45				CALCEFI CRUISE #612										90.45	
DAVID STARR JORDAN, DECEMBER 6 1966, 2305 GMT, 32 54.5N 118 55.5W, SOUNDING 920 FM, WIND 220 FORCE 6, WEATHER RAIN, SEA VERY ROUGH, WIRE ANGLE 40.															
0	16.36	33.462	5.81	-	-	-	343.9	0	16.36	33.462	5.81	24.50	343.9	C	
8	16.34	33.461	5.79	-	-	-	343.5	10	16.34	33.461	5.78	24.51	343.5	.034	
20	16.34K	33.46 G	-	-	-	-	343.6	20	16.34	33.460	5.76	24.51	343.6	.069	
27	16.34	33.463	5.78	-	-	-	343.4	30	16.33	33.460	5.84	24.51	343.4	.103	
30	16.33K	33.46 G	-	-	-	-	343.4	50	12.84	33.303	5.46	25.13	284.1	.166	
35	15.68	33.402	5.89	-	-	-	333.6	75	11.79	33.449	4.79	25.44	254.4	.234	
45	13.09	33.287	5.60	-	-	-	290.0	100	10.91	33.603	4.09	25.73	227.7	.255	
56	12.56	33.349	5.29	-	-	-	275.6	125	10.07	33.846	3.29	26.06	195.8	.348	
78	11.69	33.464	4.72	-	-	-	251.4	150	9.48	33.947	3.16	26.24	179.1	.356	
94	11.19	33.535	4.34	-	-	-	237.5	200	8.72	34.077	2.64	26.46	157.8	.482	
108	10.54	33.702	3.75	-	-	-	214.2	250	8.38	34.160	1.88	26.58	146.8	.560	
131	9.94	33.882	3.19	-	-	-	191.1	300	7.83	34.200	1.44	26.69	135.5	.633	
152	9.44	33.952	3.15	-	-	-	178.1	400	6.97	34.262	.82	26.86	119.7	.766	
185	8.97	34.086	2.47	-	-	-	160.9	500	6.24	34.301	.45	26.99	107.4	.866	
209	8.58	34.068	2.75	-	-	-	156.5								
254	8.36	34.171	1.76	-	-	-	145.6								
305	7.77	34.203	1.41	-	-	-	134.8								
383	7.11	34.253	.89	-	-	-	122.2								
457	6.54	34.288	.60	-	-	-	112.2								
520	6.10	34.306	.39	-	-	-	105.4								

90.53				CALCEFI CRUISE #612										90.53	
DAVID STARR JORDAN, DECEMBER 6 1966, 1857 GMT, 32 41N 119 29W, SOUNDING 750 FM, WIND 220 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 05.															
0	16.62	33.477	5.74	-	-	-	348.5	0	16.62	33.477	5.74	24.46	348.5	0	
10	16.60	33.467	5.77	-	-	-	348.8	10	16.60	33.467	5.77	24.45	348.8	.035	
35	16.58	33.465	5.84	-	-	-	348.5	20	16.59	33.466	5.83	24.45	348.6	.070	
50	15.30K	33.40 G	-	-	-	-	325.8	30	16.58	33.465	5.85	24.46	348.5	.105	
64	11.78	33.309	5.19	-	-	-	264.5	50	15.30	33.400	5.60	24.69	325.8	.172	
73	11.16	33.388	4.84	-	-	-	247.8	75	11.09	33.404	4.77	25.54	245.5	.244	
93	10.71	33.521	4.23	-	-	-	230.4	100	10.48	33.551	4.11	25.76	224.3	.303	
108	10.19	33.593	3.98	-	-	-	216.5	125	9.61	33.764	3.59	26.07	194.6	.356	
123	9.66	33.745	3.64	-	-	-	196.8	150	9.07	33.943	2.98	26.30	173.1	.403	
152	9.04	33.953	2.94	-	-	-	171.8	200	8.38	34.058	2.47	26.50	154.3	.466	
172	8.70	34.008	3.450	-	-	-	162.7	250	8.00	34.103	2.01	26.59	145.6	.563	
200	8.38	34.058	2.47	-	-	-	154.3	300	7.64	34.186	1.25	26.71	134.3	.636	
236	8.02	34.084	2.19	-	-	-	147.2	400	6.82	34.257	.65	26.88	118.1	.767	
264	7.99	34.124	1.81	-	-	-	143.8	500	6.26	34.304	.43	26.99	107.5	.867	
314	7.47	34.208	1.05	-	-	-	130.3	600	5.71	34.337	.36	27.09	98.4	.957	
377	6.95	34.245	.74	-	-	-	120.7								
475	6.44	34.292	.45	-	-	-	110.6								
563	5.88	34.328	.39	-	-	-	101.1								
636	5.57	34.343	.33	-	-	-	96.4								

INPUT								CUTPLT AT STANDARD LEVELS CF DEPTH									
Z	T	S	CXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	C*T	CC			
90.60								CALCCFI CRUISE 6612								90.60	
DAVID STARR JORDAN, DECEMBER 6 1966, 1458 GMT, 32 25.5N 119 57.5W, SOUNDING 500 FM, WIND 220 FORCE 4, WEATHER CVERCAST, SEA MISSING, WIRE ANGLE 28.																	
1	15.86	33.323	5.85	-	-	-	343.2	0	15.86	33.323	5.85	24.51	343.2	0			
9	15.86	33.327	5.83	-	-	-	342.9	10	15.86	33.327	5.83	24.51	342.9	.034			
20	15.86K	33.33 G	-	-	-	-	342.7	20	15.86	33.330	5.86	24.52	342.7	.069			
30	15.86K	33.33 G	-	-	-	-	342.7	30	15.86	33.330	5.88	24.52	342.7	.103			
32	15.68	33.369	5.89	-	-	-	336.0	50	15.00	33.340	5.84	24.71	323.9	.170			
50	15.00K	33.34 G	-	-	-	-	323.9	75	11.60	33.244	5.36	25.32	266.1	.244			
57	13.76	33.305	5.78	-	-	-	301.6	100	10.33	33.586	4.05	25.81	219.4	.305			
65	12.56	33.231	5.67	-	-	-	284.3	125	9.88	33.743	3.50	26.01	200.4	.358			
83	11.09	33.323	4.97	-	-	-	251.4	150	9.23	33.893	3.30	26.24	179.2	.406			
96	10.42	33.550	4.07	-	-	-	223.5	200	8.49	34.063	2.39	26.48	155.5	.452			
108	10.22	33.637	4.02	-	-	-	213.8	250	7.76	34.106	1.94	26.63	141.9	.508			
134	9.67	33.796	3.23	-	-	-	193.2	300	7.25	34.168	1.30	26.75	130.4	.638			
152	9.18	33.905	3.31	-	-	-	177.5	400	6.90	34.248	.84	26.86	119.8	.769			
177	8.72	34.020	2.70	-	-	-	162.1	500	6.36	34.277	.65	26.96	110.8	.891			
207	8.43	34.069	2.33	-	-	-	154.2	600	5.78	34.352	.42	27.09	98.1	1.002			
240	7.94	34.095	2.10	-	-	-	145.2										
282	7.27	34.146	1.43	-	-	-	132.3										
341	7.21	34.212	1.14	-	-	-	126.6										
431	6.70	34.259	.72	-	-	-	116.4										
512	6.30	34.283	.63	-	-	-	109.6										
584	5.88	34.336	.47	-	-	-	100.5										

90.70	CALCCFI CRUISE 6612												90.70	
DAVID STARR JORDAN, DECEMBER 6 1966, 0944 GMT, 32 01N 120 39W, SOUNDING 2150 FM, WIND 220 FORCE 5, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 27.														
0	16.38	33.140	5.74	-	-	-	367.8	0	16.38	33.140	5.74	24.25	367.8	0
9	16.37	33.138	5.74	-	-	-	367.8	10	16.37	33.138	5.74	24.25	367.8	.037
10	16.37K	-	-	-	-	-	-	20	16.38	33.138	5.75	24.25	368.0	.074
20	16.38K	-	-	-	-	-	-	30	16.39	33.140	5.78	24.25	368.1	.111
30	16.39K	-	-	-	-	-	-	50	16.05	33.180	5.99	24.36	357.8	.183
32	16.39	33.140	5.79	-	-	-	368.1	75	12.85	33.161	5.91	25.02	294.8	.265
50	16.05K	33.18 G	-	-	-	-	357.8	100	11.12	33.345	4.98	25.49	250.3	.334
59	14.26	33.176	6.07	-	-	-	320.9	125	10.34	33.541	4.32	25.78	222.8	.394
67	13.54	33.155	6.06	-	-	-	308.3	150	9.62	33.779	3.45	26.08	193.7	.446
85	12.05	33.208	5.58	-	-	-	276.7	200	8.70	34.017	2.62	26.42	162.0	.537
97	11.22	33.323	5.08	-	-	-	253.7	250	7.95	34.099	1.97	26.59	145.1	.616
111	10.86	33.422	4.67	-	-	-	240.2	300	7.47	34.148	1.45	26.70	134.8	.688
139	9.84	33.671	3.92	-	-	-	205.1	400	6.81	34.262	.70	26.89	117.6	.820
156	9.52	33.834	3.21	-	-	-	188.0	500	6.18	34.307	.45	27.00	106.3	.938
183	8.94	33.973	2.84	-	-	-	168.9	600	5.72	34.347	.33	27.09	97.8	1.047
215	8.50	34.042	2.43	-	-	-	157.2							
242	8.05	34.091	2.06	-	-	-	147.1							
287	7.58	34.129	1.60	-	-	-	137.7							
346	7.12	34.216	.96	-	-	-	125.1							
437	6.61	34.282	.61	-	-	-	113.5							
519	6.07	34.315	.42	-	-	-	104.4							
589	5.76	34.343	.34	-	-	-	98.6							

90.80							CALCCFI CRUISE 6612							90.80						
DAVID STARR JORDAN, DECEMBER 6 1966, 0512 GMT, 31 44.5N 121 19.5W, SOUNDING 2100 FM, WIND 330 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 40.																				
0	17.35	33.300	5.66	-	-	-	377.8	0	17.35	33.300	5.66	24.15	377.8	0						
7	17.31	33.303	5.64	-	-	-	376.6	10	17.31	33.304	5.64	24.16	376.5	.038						
26	17.32	33.308	5.68	-	-	-	376.5	20	17.31	33.307	5.66	24.16	376.3	.075						
48	17.26	33.298	5.65	-	-	-	375.9	30	17.31	33.307	5.61	24.16	376.4	.113						
50	17.21K	33.29 G	-	-	-	-	375.3	50	17.21	33.290	5.77	24.17	375.3	.189						
56	15.04	33.207	6.11	-	-	-	334.5	75	13.49	33.270	5.91	24.98	299.0	.273						
71	13.62	33.277	5.93	-	-	-	300.9	100	12.14	33.285	5.45	25.25	272.6	.345						
82	13.30	33.255	5.85	-	-	-	296.4	125	11.04	33.407	4.84	25.55	244.4	.410						
92	12.63	33.271	5.65	-	-	-	282.6	150	10.18	33.687	4.37	25.92	209.4	.468						
114	11.42	33.333	5.08	-	-	-	256.4	200	8.75	33.957	3.62	26.36	167.2	.564						
127	10.98	33.424	4.80	-	-	-	242.1	250	7.96	34.047	2.62	26.55	149.1	.645						
149	10.22	33.679	4.39	-	-	-	210.7	300	7.32	34.076	2.04	26.67	138.2	.719						
172	9.44	33.835	3.89	-	-	-	186.7	400	6.55	34.183	.92	26.86	120.1	.853						
194	8.88	33.939	3.73	-	-	-	170.5	500	5.53	34.214	.59	27.01	105.5	.972						
225	8.29	34.011	3.07	-	-	-	156.5													
267	7.76	34.063	2.36	-	-	-	145.1													
334	6.92	34.088	1.77	-	-	-	132.0													
404	6.52	34.187	.89	-	-	-	119.5													
472	5.87	34.207	.67	-	-	-	110.1													

INPUT

CLTPT AT STANDARD LEVELS OF DEPTH

Z	T	S	CXY	PFG	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC			
90.90								CALCOFI CRUISE 6612								90.90	
DAVID STARR JORDAN, DECEMBER 5 1966, 2345 GMT, 31 23N 122 01W, SOUNDING 2270 FM, WIND 230 FORCE 5, WEATHER OVERCAST, SEA HIGH, WIRE ANGLE 33.																	
0	16.80	33.124	5.73	-	-	-	378.2	0	16.80	33.124	5.73	24.14	378.2	C			
8	16.80	33.129	5.78	-	-	-	377.9	10	16.80	33.130	5.78	24.15	377.8	.038			
10	16.80K	33.13 G	-	-	-	-	377.8	20	16.81	33.130	5.77	24.15	378.0	.076			
20	16.81K	33.13 G	-	-	-	-	378.0	30	16.82	33.133	5.78	24.15	378.0	.114			
30	16.82	33.133	5.78	-	-	-	378.0	50	16.85	33.140	6.15	24.14	378.2	.189			
50	16.85K	33.14 G	-	-	-	-	378.2	75	13.19	33.175	5.95	24.96	300.1	.275			
54	15.43	33.231	6.19	-	-	-	340.9	100	11.67	33.214	5.47	25.29	269.5	.346			
62	14.29	33.202	6.07	-	-	-	319.6	125	10.71	33.477	4.50	25.66	233.7	.410			
80	12.86	33.171	5.89	-	-	-	294.2	150	9.81	33.691	3.90	25.98	203.2	.465			
92	11.82	33.177	5.61	-	-	-	274.9	200	8.78	33.973	3.94	26.37	166.4	.559			
105	11.56	33.249	5.36	-	-	-	265.0	250	7.92	34.025	2.94	26.54	150.2	.640			
129	10.52	33.525	4.32	-	-	-	227.0	300	7.17	34.059	2.40	26.68	137.4	.714			
145	9.98	33.643	3.93	-	-	-	209.5	400	6.24	34.143	1.17	26.87	119.4	.848			
168	9.29	33.854	3.93	-	-	-	183.0	500	5.70	34.238	.56	27.01	105.7	.966			
195	8.86	33.962	4.02	-	-	-	168.5										
219	8.46	34.002	3.53	-	-	-	159.6										
257	7.80	34.028	2.82	-	-	-	148.3										
311	7.03	34.067	2.31	-	-	-	135.0										
393	6.28	34.136	1.23	-	-	-	120.3										
471	5.86	34.210	.68	-	-	-	109.7										
540	5.47	34.277	.46	-	-	-	100.2										

90.97

CALCOFI CRUISE 6612

90.97

DAVID STARR JORDAN, DECEMBER 5 1966, 2018 GMT, 31 10N 122 26W, SOUNDING 2250 FM, WIND 220 FORCE 5, WEATHER CLCLCY, SEA VERY ROUGH, WIRE ANGLE 25.

1	16.65	33.073	5.78	-	-	-	378.7	0	16.65	33.073	5.78	24.14	378.7	C
10	16.62	33.073	5.88	-	-	-	378.0	10	16.62	33.073	5.88	24.15	378.0	.038
20	16.62K	33.07 G	-	-	-	-	378.2	20	16.62	33.070	5.83	24.14	378.2	.076
30	16.62K	33.08 G	-	-	-	-	377.5	30	16.62	33.080	5.78	24.15	377.5	.114
34	16.62	33.076	5.76	-	-	-	377.8	50	16.73	33.100	6.05	24.14	378.4	.189
50	16.73K	33.10 G	-	-	-	-	378.4	75	13.08	33.192	6.07	25.00	296.8	.274
60	14.66	33.209	6.21	-	-	-	326.6	100	11.21	33.337	5.06	25.46	252.4	.343
69	13.72	33.219	6.18	-	-	-	307.1	125	10.17	33.602	4.24	25.85	215.5	.402
86	12.04	33.174	5.71	-	-	-	279.0	150	9.42	33.824	3.79	26.15	187.1	.453
99	11.26	33.326	5.10	-	-	-	254.1	200	8.61	33.984	3.79	26.41	163.1	.543
113	10.63	33.480	4.57	-	-	-	232.1	250	7.61	34.033	2.73	26.59	145.3	.622
139	9.71	33.731	3.96	-	-	-	198.6	300	7.00	34.082	1.86	26.72	133.4	.653
156	9.28	33.868	3.73	-	-	-	181.8	400	6.17	34.176	.91	26.90	115.9	.823
183	8.87	33.956	3.98	-	-	-	169.1	500	5.62	34.262	.49	27.04	103.0	.938
213	8.38	33.998	3.54	-	-	-	158.7	600	5.32	34.347	.30	27.14	93.2	1.043
240	7.78	34.024	2.94	-	-	-	148.3							
282	7.18	34.064	2.12	-	-	-	137.2							
339	6.67	34.121	1.40	-	-	-	126.3							
429	5.96	34.201	.75	-	-	-	111.6							
510	5.58	34.271	.46	-	-	-	101.9							
582	5.36	34.332	.32	-	-	-	94.8							

90.110

CALCOFI CRUISE 6612

90.110

DAVID STARR JORDAN, DECEMBER 5 1966, 1425 GMT, 30 45.5N 123 15W, SOUNDING 2080 FM, WIND 230 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 27.

0	17.26	33.257	5.64	-	-	-	378.8	0	17.26	33.257	5.64	24.14	378.8	C
9	17.24	33.258	5.61	-	-	-	378.3	10	17.25	33.260	5.61	24.14	378.4	.038
31	17.37	33.299	5.66	-	-	-	378.3	20	17.32	33.280	5.63	24.14	378.6	.076
40	17.26	33.292	5.67	-	-	-	376.3	30	17.37	33.297	5.66	24.14	378.3	.114
55	16.30	33.242	5.89	-	-	-	358.7	50	16.83	33.268	5.80	24.25	368.4	.189
66	13.83	33.134	6.08	-	-	-	315.5	75	13.43	33.155	6.03	24.90	306.3	.273
88	12.90	33.242	5.78	-	-	-	289.8	100	12.31	33.276	5.52	25.21	276.4	.347
105	12.06	33.291	5.40	-	-	-	270.8	125	11.11	33.409	4.91	25.54	245.4	.413
128	10.98	33.432	4.83	-	-	-	241.5	150	10.18	33.630	4.30	25.87	213.6	.471
150	10.18K	33.63 G	-	-	-	-	213.6	200	8.78	33.957	3.40	26.36	167.6	.568
158	9.84	33.715	4.12	-	-	-	201.9	250	7.97	34.026	2.96	26.54	150.8	.649
184	9.09	33.897	3.65	-	-	-	176.8	300	7.39	34.094	1.79	26.67	137.8	.724
220	8.46	33.997	3.17	-	-	-	160.0	400	6.40	34.162	1.00	26.86	119.9	.858
247	8.01	34.022	3.03	-	-	-	151.7	500	5.66	34.223	.52	27.00	106.4	.977
294	7.46	34.089	1.87	-	-	-	139.1	600	5.20	34.321	.35	27.14	93.9	1.083
352	6.85	34.129	1.36	-	-	-	128.0							
445	6.03	34.192	.73	-	-	-	113.1							
527	5.51	34.244	.45	-	-	-	103.1							
601	5.20	34.322	.35	-	-	-	93.7							

INPUT								CALCUL AT STANDARD LEVELS OF DEPTH									
Z	T	S	CXY	PHG	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	CC			
90.120								CALCOFI CRUISE 6612								90.120	
DAVID STARR JORDAN, DECEMBER 5 1966, 0807 GMT, 30 26N 123 55W, SOUNDING 2300 FM, WIND 220 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 32.																	
1	17.76	33.393	5.63	-	-	-	380.3	0	17.76	33.393	5.63	24.12	380.3	C			
9	17.76	33.390	5.61	-	-	-	380.6	10	17.76	33.390	5.61	24.12	380.6	.038			
31	17.78	33.393	5.63	-	-	-	380.8	20	17.77	33.390	5.61	24.12	380.8	.076			
56	17.77	33.404	5.64	-	-	-	379.8	30	17.78	33.393	5.63	24.12	380.8	.114			
65	16.70	33.346	5.88	-	-	-	359.8	50	17.77	33.413	5.64	24.13	379.3	.151			
75	14.55K	33.26 G	-	-	-	-	320.6	75	14.55	33.260	6.10	24.75	320.6	.279			
82	13.42	33.233	6.13	-	-	-	300.3	100	11.88	33.252	5.52	25.28	270.5	.353			
94	12.32	33.235	5.74	-	-	-	279.6	125	10.51	33.477	4.53	25.70	230.4	.416			
105	11.56	33.275	5.33	-	-	-	263.1	150	9.78	33.682	3.94	25.98	203.4	.471			
130	10.32	33.534	4.35	-	-	-	223.0	200	8.86	33.958	3.13	26.35	168.8	.566			
146	9.88	33.648	4.00	-	-	-	207.5	250	8.13	34.060	2.52	26.54	150.5	.648			
169	9.36	33.829	3.70	-	-	-	185.9	300	7.49	34.090	2.13	26.65	139.4	.722			
196	8.92	33.943	3.19	-	-	-	170.8	400	6.41	34.130	1.29	26.83	122.4	.859			
219	8.60	34.019	2.86	-	-	-	160.4	500	5.68	34.221	.70	27.00	106.8	.979			
261	7.97	34.066	2.42	-	-	-	147.8										
318	7.29	34.097	2.01	-	-	-	136.2										
399	6.42	34.129	1.30	-	-	-	122.6										
474	5.84	34.192	.86	-	-	-	110.8										
546	5.46	34.282	.40	-	-	-	99.7										

90.130							CALCOFI CRUISE 6612							90.130		
DAVID STARR JORDAN, DECEMBER 5 1966, 0315 GMT, 30 05N 124 36.5W, SOUNDING 2500 FM, WIND 220 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 20.																
1	17.74	33.357	5.67	-	-	-	382.5	0	17.74	33.357	5.67	24.10	382.5	C		
10	17.72	33.358	5.67	-	-	-	382.0	10	17.72	33.358	5.67	24.10	382.0	.038		
20	17.80K	33.40 G	-	-	-	-	380.8	20	17.80	33.400	5.65	24.12	380.8	.076		
33	18.08	33.555	5.63	-	-	-	376.0	30	18.02	33.522	5.64	24.16	377.0	.114		
43	18.07	33.557	5.62	-	-	-	375.6	50	18.01	33.580	5.63	24.20	372.5	.150		
50	18.01K	33.58 G	-	-	-	-	372.5	75	14.86	33.353	6.20	24.75	320.2	.277		
56	17.88	33.597	5.64	-	-	-	368.3	100	13.01	33.327	5.97	25.12	285.7	.353		
71	15.34	33.377	6.18	-	-	-	328.3	125	12.08	33.410	5.55	25.36	262.4	.422		
93	13.37	33.325	6.05	-	-	-	292.6	150	11.04	33.662	5.00	25.75	225.6	.484		
113	12.52	33.342	5.78	-	-	-	275.4	200	9.39	33.904	4.48	26.22	180.9	.587		
132	11.83	33.465	5.41	-	-	-	253.8	250	8.51	34.001	4.10	26.43	160.4	.675		
160	10.61	33.765	4.80	-	-	-	210.7	300	7.51	34.025	2.75	26.60	144.5	.753		
187	9.70	33.856	4.55	-	-	-	189.2	400	6.27	34.070	1.79	26.81	125.1	.853		
225	8.93	33.977	4.33	-	-	-	168.4	500	5.66	34.178	.82	26.97	109.8	1.017		
253	8.46	34.002	4.06	-	-	-	159.6	600	5.06	34.265	.41	27.11	96.5	1.126		
299	7.53	34.025	2.76	-	-	-	144.8									
360	6.63	34.041	2.24	-	-	-	131.8									
453	5.93	34.122	1.20	-	-	-	117.1									
537	5.44	34.215	.60	-	-	-	104.5									
610	5.00	34.271	.40	-	-	-	95.3									

90.140							CALCOFI CRUISE 6612							90.140													
DAVID STARR JORDAN, DECEMBER 4 1966, 2238 GMT, 29 45N 125 17W, SOUNDING 2440 FM, WIND 220 FORCE 5, WEATHER CLCUDY, SEA RCLGH, WIRE ANGLE 22.																											
0	18.47	33.731	5.51	-	-	-	372.3	0	18.47	33.731	5.51	24.21	372.3	0													
10	18.43	33.724	5.53	-	-	-	371.9	10	18.43	33.724	5.53	24.21	371.9	.037													
30	18.60K	33.84 G	-	-	-	-	367.5	20	18.50	33.771	5.53	24.23	370.1	.074													
33	18.62	33.858	5.51	-	-	-	366.7	30	18.60	33.840	5.51	24.26	367.5	.111													
50	18.80K	33.95 G	-	-	-	-	364.3	50	18.80	33.950	5.49	24.29	364.3	.185													
58	18.88	33.968	5.51	-	-	-	364.9	75	17.00	33.820	5.71	24.63	332.0	.272													
68	18.28	33.868	5.59	-	-	-	357.9	100	15.86	33.939	5.73	24.98	298.2	.352													
75	17.00K	33.82 G	-	-	-	-	332.0	125	15.06	33.994	5.49	25.20	277.4	.425													
87	16.06	33.825	5.86	-	-	-	310.9	150	13.87	33.933	5.26	25.41	257.8	.452													
101	15.84	33.948	5.72	-	-	-	297.2	200	10.24	33.811	4.54	26.00	201.1	.609													
115	15.31	33.961	5.60	-	-	-	285.0	250	9.04	33.987	4.34	26.34	169.3	.704													
141	14.50	34.004	5.32	-	-	-	265.1	300	8.04	34.010	3.48	26.51	153.0	.787													
161	12.99	33.835	5.17	-	-	-	247.9	400	6.62	34.057	2.02	26.75	130.4	.934													
187	10.90	33.761	4.74	-	-	-	215.9	500	5.70	34.142	.96	26.93	112.9	1.062													
218	9.62	33.908	4.34	-	-	-	184.1	600	5.09	34.240	.51	27.08	98.6	1.174													
246	9.12	33.982	4.39	-	-	-	170.9																				
293	8.18	34.008	3.59	-	-	-	155.1																				
354	7.11	34.030	2.65	-	-	-	138.8																				
446	6.24	34.092	1.48	-	-	-	123.1																				
530	5.46	34.171	.75	-	-	-	108.0																				
602	5.08	34.242	.51	-	-	-	98.4																				

INPUT								ELIPLT AT STANDARD LEVELS OF DEPTH									
Z	T	S	CKY	PFC	SIL	HLT	D*F	Z	T	S	CKY	SIGAT	F*F	EC			
93.28								CALCCFI CRUISE 6612								93.28	
DAVID STARR JORDAN, DECEMBER 2 1966, 0421 GMT, 32 54.5N 117 22W, SOUNDING 315 FM, WIND 360 FORCE 1, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 12.																	
0	15.82	33.454	5.93	-	-	-	332.8	0	15.82	33.454	5.93	24.62	332.8	C			
9	15.80	33.446	5.99	-	-	-	333.0	10	15.79	33.440	5.99	24.62	333.2	.033			
10	15.79K	33.44 G	-	-	-	-	333.2	20	15.15	33.410	5.85	24.73	321.9	.066			
20	15.15K	33.41 G	-	-	-	-	321.9	30	12.78	33.368	5.49	25.19	278.3	.056			
28	13.06	33.363	5.60	-	-	-	283.9	50	11.5E	33.478	4.54	25.51	248.4	.145			
43	11.88	33.443	4.77	-	-	-	256.4	75	10.95	33.610	4.02	25.72	227.8	.209			
53	11.48	33.492	4.47	-	-	-	245.7	100	10.43	33.763	3.46	25.93	207.8	.264			
66	11.15	33.549	4.28	-	-	-	235.8	125	9.75	33.934	2.94	26.18	184.3	.313			
81	10.82	33.653	3.84	-	-	-	222.5	150	9.4E	34.001	2.79	26.28	175.0	.359			
96	10.55	33.732	3.56	-	-	-	212.2	200	8.96	34.105	2.31	26.45	159.3	.444			
120	9.84	33.912	3.00	-	-	-	187.3	250	8.51	34.158	1.88	26.56	148.8	.523			
140	9.56	33.980	2.83	-	-	-	177.9	300	8.18	34.196	1.45	26.64	141.1	.598			
169	9.34	34.035	2.69	-	-	-	170.4	400	7.14	34.258	.77	26.84	122.2	.736			
197	8.99	34.100	2.35	-	-	-	160.2	500	6.36	34.304	.42	26.98	108.7	.858			
226	8.70	34.140	2.04	-	-	-	152.9										
265	8.41	34.166	1.79	-	-	-	146.7										
322	8.01	34.215	1.24	-	-	-	137.3										
375	7.44	34.245	.92	-	-	-	127.2										
432	6.82	34.274	.61	-	-	-	116.8										
491	6.40	34.300	.43	-	-	-	105.6										

93.30				CALCCFI CRUISE 6612										93.30			
DAVID STARR JORDAN, DECEMBER 2 1966, 0624 GMT, 32 50.5N 117 31W, SOUNDING 480 FM, WIND 360 FORCE 2, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 02.																	
0	16.93	33.522	5.76	-	-	-	352.1	0	16.93	33.522	5.76	24.42	352.1	C			
9	16.95	33.519	5.85	-	-	-	352.8	10	16.95	33.520	5.85	24.41	352.7	.035			
10	16.95K	33.52 G	-	-	-	-	352.7	20	16.80	33.510	5.86	24.44	350.1	.070			
20	16.80K	33.51 G	-	-	-	-	350.1	30	14.15	33.349	5.81	24.90	306.0	.103			
29	14.34	33.356	5.84	-	-	-	309.3	50	12.14	33.357	5.25	25.31	267.4	.161			
39	12.90	33.330	5.51	-	-	-	283.3	75	11.22	33.548	4.24	25.63	237.1	.224			
49	12.18	33.353	5.28	-	-	-	268.4	100	10.47	33.782	3.40	25.94	207.3	.280			
63	11.79	33.440	4.75	-	-	-	255.0	125	9.87	33.931	3.06	26.16	186.4	.330			
78	11.08	33.577	4.12	-	-	-	232.5	150	9.65	34.010	2.80	26.26	177.1	.376			
98	10.54	33.765	3.44	-	-	-	209.6	200	9.08	34.124	2.16	26.44	159.8	.462			
118	9.96	33.904	3.11	-	-	-	189.8	250	8.62	34.166	1.90	26.55	149.7	.542			
143	9.74	33.983	2.92	-	-	-	180.5	300	8.16	34.203	1.41	26.64	140.3	.617			
173	9.36	34.088	2.39	-	-	-	166.7	400	7.19	34.252	.79	26.83	123.3	.754			
202	9.06	34.125	2.15	-	-	-	159.4	500	6.48	34.289	.47	26.95	111.4	.878			
232	8.78	34.154	2.08	-	-	-	153.0										
272	8.42	34.179	1.65	-	-	-	145.9										
330	7.88	34.228	1.19	-	-	-	134.5										
406	7.13	34.253	.76	-	-	-	122.4										
479	6.64	34.278	.53	-	-	-	114.2										
558	6.02	34.327	.33	-	-	-	102.9										

93.40				CALCCFI CRUISE 6612										93.40			
DAVID STARR JORDAN, DECEMBER 2 1966, 1143 GMT, 32 30N 118 11.5W, SOUNDING 1000 FM, WIND CALM, WEATHER FCG, SEA MISSING, WIRE ANGLE 06.																	
0	17.00	33.535	5.72	-	-	-	352.7	0	17.00	33.535	5.72	24.41	352.7	0			
10	16.98	33.534	5.73	-	-	-	352.4	10	16.98	33.534	5.73	24.42	352.4	.035			
20	17.00K	33.54 G	-	-	-	-	352.4	20	17.00	33.540	5.76	24.42	352.4	.071			
30	17.00	33.536	5.77	-	-	-	352.7	30	17.00	33.536	5.77	24.41	352.7	.106			
40	15.14	33.368	5.73	-	-	-	323.3	50	13.13	33.347	5.46	25.11	286.5	.170			
51	12.96	33.345	5.43	-	-	-	283.3	75	11.60	33.475	4.59	25.50	249.0	.237			
65	12.18	33.424	4.91	-	-	-	263.1	100	10.87	33.628	3.98	25.75	225.3	.297			
78	11.44	33.491	4.50	-	-	-	245.1	125	10.20	33.789	3.37	25.99	202.1	.351			
98	10.94	33.614	4.04	-	-	-	227.4	150	9.86	33.921	2.99	26.15	187.0	.400			
118	10.32	33.751	3.51	-	-	-	207.0	200	9.19	34.108	2.34	26.41	162.6	.490			
143	9.96	33.880	3.08	-	-	-	191.6	250	8.68	34.169	1.87	26.54	150.4	.570			
173	9.54	34.039	2.72	-	-	-	173.2	300	8.07	34.167	1.66	26.63	141.8	.645			
204	9.14	34.114	2.29	-	-	-	161.4	400	7.25	34.236	.91	26.80	125.3	.755			
234	8.82	34.154	2.01	-	-	-	153.6	500	6.46	34.302	.38	26.96	110.2	.909			
273	8.46	34.180	1.70	-	-	-	146.4										
333	7.62	34.153	1.61	-	-	-	136.5										
408	7.22	34.248	.82	-	-	-	124.0										
482	6.59	34.293	.45	-	-	-	112.5										
559	6.09	34.324	.21	-	-	-	103.9										

INPLT								OUTPLT AT STANDARD LEVELS CF DEPTH									
Z	T	S	OXY	P-H	SIL	NIT	C*T	Z	T	S	OXY	SIG*T	C*T	CC			
93.50								CALCCFI CRUISE 6612								93.50	
DAVID STARR JORDAN, DECEMBER 2 1966, 1637 GMT, 32 10N 118 51.5W, SOUNDING 850 FM, WIND 300 FCRCE 1, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 09.																	
0	16.86	33.337	5.72	-	-	-	364.0	0	16.86	33.337	5.72	24.29	364.0	0			
10	16.80	33.337	5.80	-	-	-	362.7	10	16.80	33.337	5.80	24.31	362.7	.036			
20	16.69K	33.34 G	-	-	-	-	360.1	20	16.69	33.340	5.79	24.33	360.1	.073			
29	16.56	33.336	5.77	-	-	-	357.5	30	16.55	33.356	5.77	24.38	355.7	.108			
39	16.42	33.487	5.81	-	-	-	343.4	50	14.55	33.254	6.05	24.74	321.0	.176			
49	14.68	33.266	6.06	-	-	-	322.8	75	11.84	33.291	5.23	25.31	266.8	.250			
63	13.08	33.200	5.73	-	-	-	296.2	100	10.62	33.456	4.58	25.66	233.8	.313			
77	11.66	33.312	5.15	-	-	-	262.1	125	10.00	33.621	3.96	25.90	211.4	.369			
97	10.72	33.436	4.64	-	-	-	236.9	150	9.48	33.774	3.10	26.10	191.8	.421			
122	10.07	33.601	4.07	-	-	-	214.0	200	8.62	33.996	2.43	26.41	162.3	.511			
142	9.64	-	3.31	-	-	-	-	250	7.76	34.076	2.09	26.61	144.1	.589			
171	9.09	-	2.71	-	-	-	-	300	7.24	34.102	1.82	26.70	135.1	.661			
199	8.64	-	2.44	-	-	-	-	400	6.67	34.217	.78	26.87	119.1	.794			
228	8.03	34.071	2.23	-	-	-	148.3	500	5.98	34.286	.41	27.01	105.4	.912			
267	7.60	34.082	1.99	-	-	-	141.5										
325	7.00	34.124	1.66	-	-	-	130.3										
398	6.68	34.215	.79	-	-	-	119.4										
472	6.16	34.271	.47	-	-	-	108.8										
549	5.68	34.306	.37	-	-	-	100.4										

93.60	CALCCFI CRUISE 6612												93.60	
DAVID STARR JORDAN, DECEMBER 2 1966, 2256 GMT, 31 55N 119 37W, SOUNDING 1260 FM, WIND 240 FORCE 3, WEATHER DRIZZLE, SEA ROUGH, WIRE ANGLE 21.														
0	17.23	33.731	5.66	-	-	-	343.6	0	17.23	33.731	5.66	24.51	343.6	0
9	17.15	33.722	5.68	-	-	-	342.5	10	17.14	33.721	5.68	24.52	342.3	.034
28	17.06	33.704	5.69	-	-	-	341.8	20	17.08	33.714	5.69	24.53	341.5	.069
30	17.06K	33.70 G	-	-	-	-	342.1	30	17.06	33.700	5.70	24.52	342.1	.103
38	17.08	33.712	5.69	-	-	-	341.6	50	15.55	33.593	5.53	24.79	317.0	.169
51	15.35	33.581	5.49	-	-	-	313.6	75	10.85	33.540	3.96	25.69	231.4	.238
64	11.80	33.509	4.38	-	-	-	250.1	100	10.16	33.714	3.39	25.94	207.1	.293
75	10.85K	33.54 G	-	-	-	-	231.4	125	9.60	33.853	2.99	26.14	187.9	.343
89	10.50	33.632	3.69	-	-	-	218.7	150	9.14	33.960	2.62	26.30	172.8	.389
107	9.95	33.764	3.23	-	-	-	200.0	200	8.28	34.044	2.55	26.50	153.9	.472
125	9.60	33.853	2.99	-	-	-	187.9	250	7.76	34.106	1.87	26.63	142.0	.548
144	9.22	33.940	2.69	-	-	-	175.5	300	7.32	34.154	1.33	26.73	132.3	.619
171	8.85	34.010	2.47	-	-	-	164.8	400	6.42	34.209	.69	26.90	116.6	.748
201	8.26	34.045	2.55	-	-	-	153.5	500	5.79	34.318	.32	27.06	100.7	.863
227	7.96	34.082	2.12	-	-	-	146.5							
272	7.59	34.125	1.66	-	-	-	138.2							
322	7.10	34.175	1.09	-	-	-	127.9							
401	6.41	34.209	.69	-	-	-	116.5							
480	5.90	34.303	.33	-	-	-	103.2							
562	5.48	34.345	.29	-	-	-	95.2							

93.70	CALCCFI CRUISE 6612												93.70	
DAVID STARR JORDAN, DECEMBER 3 1966, 0429 GMT, 31 30N 120 12W, SOUNDING 2200 FM, WIND 230 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 18.														
0	16.98	33.325	5.70	-	-	-	367.6	0	16.98	33.325	5.70	24.26	367.6	0
9	16.91	33.322	5.64	-	-	-	366.3	10	16.91	33.322	5.64	24.27	366.3	.037
28	16.93	33.323	5.69	-	-	-	366.6	20	16.92	33.322	5.66	24.27	366.4	.073
57	16.70	33.322	5.69	-	-	-	361.6	30	16.92	33.322	5.69	24.27	366.5	.110
66	16.19	33.331	5.77	-	-	-	349.8	50	16.78	33.320	5.68	24.30	363.4	.183
81	14.29	33.230	5.90	-	-	-	317.6	75	15.09	33.276	5.86	24.64	330.5	.271
96	13.03	33.184	5.88	-	-	-	296.5	100	12.77	33.188	5.82	25.06	291.4	.349
110	12.18	33.225	5.58	-	-	-	277.8	125	11.14	33.347	4.95	25.48	250.5	.417
133	10.64	33.428	4.61	-	-	-	236.1	150	10.04	33.592	4.23	25.87	214.2	.476
153	9.96	33.621	4.17	-	-	-	210.8	200	8.76	33.964	2.94	26.37	166.8	.573
180	9.14	33.865	3.28	-	-	-	179.9	250	8.12	34.073	2.18	26.55	149.4	.654
208	8.64	33.989	2.84	-	-	-	163.2	300	7.63	34.137	1.51	26.67	137.8	.728
236	8.27	34.049	2.41	-	-	-	153.4	400	6.88	34.222	.80	26.84	121.5	.863
282	7.81	34.117	1.69	-	-	-	141.8	500	6.22	34.286	.40	26.98	108.4	.985
333	7.32	34.169	1.25	-	-	-	131.2							
414	6.80	34.231	.72	-	-	-	119.8							
496	6.24	34.283	.41	-	-	-	108.8							
578	5.80	34.336	.26	-	-	-	99.6							

INPUT							CALCUL AT STANDARD LEVELS OF DEPTH									
Z	T	S	EXY	PFC	SIL	NIT	DPT	Z	T	S	EXY	SIG* T	D* T	CD		
93.80							CALCCFI CRUISE 6612								93.80	
DAVID STARR JORDAN, DECEMBER 3 1966, 0944 GMT, 31 08N 12C 54W, SOUNDING 220C FM, WIND 210 FORCE 5, WEATHER CLOUDY, SEA MISSING, WIRE ANGLE 12.																
1	17.25	33.335	5.63	-	-	-	372.9	0	17.25	33.335	5.63	24.20	272.5	0		
11	17.24	33.333	5.74	-	-	-	372.9	10	17.25	33.333	5.73	24.20	273.1	.027		
20	17.08K	33.34 G	-	-	-	-	368.7	20	17.08	33.340	5.75	24.24	268.7	.074		
30	17.03K	33.34 G	-	-	-	-	367.6	30	17.03	33.340	5.75	24.26	267.6	.111		
50	17.01	33.338	5.73	-	-	-	367.3	50	17.01	33.338	5.73	24.26	267.3	.165		
83	14.58	33.250	6.07	-	-	-	321.9	75	15.33	33.271	6.02	24.59	335.8	.273		
103	12.46	33.250	5.81	-	-	-	288.4	100	13.09	33.244	5.87	25.04	293.2	.353		
117	12.22	33.332	5.53	-	-	-	270.6	125	11.67	33.364	5.27	25.40	258.5	.422		
137	10.86	33.425	4.86	-	-	-	240.0	150	10.30	33.550	4.52	25.79	221.5	.483		
156	10.10	33.614	4.35	-	-	-	213.5	200	8.88	33.916	3.61	26.31	172.2	.563		
176	9.48	33.786	3.56	-	-	-	191.0	250	8.19	34.042	2.67	26.51	152.8	.666		
204	8.80	33.931	3.64	-	-	-	169.9	300	7.43	34.054	2.41	26.64	141.2	.742		
233	8.42	34.014	3.00	-	-	-	166.1	400	6.31	34.113	1.61	26.83	122.4	.879		
258	8.08	34.050	2.55	-	-	-	150.6	500	5.75	34.215	.78	26.99	108.0	1.000		
293	7.55	34.056	2.45	-	-	-	142.8	600	5.33	34.284	.44	27.09	98.1	1.110		
337	6.83	34.051	2.16	-	-	-	133.6									
392	6.37	34.104	1.69	-	-	-	123.8									
474	5.86	34.196	.94	-	-	-	110.8									
564	5.48	34.260	.51	-	-	-	101.5									
639	5.18	34.309	.44	-	-	-	94.5									

93.90							CALCCFI CRUISE 6612							93.90						
DAVID STARR JORDAN, DECEMBER 3 1966, 1534 GMT, 30 48N 121 34W, SOUNDING 220C FM, WIND 230 FORCE 4, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 23.																				
0	17.62	33.442	-	-	-	-	373.6	0	17.62	33.442	24.15	373.6	0							
10	17.62	33.452	-	-	-	-	372.8	10	17.62	33.452	24.20	372.8	.037							
29	17.65	33.441	-	-	-	-	374.3	20	17.64	33.448	24.19	373.5	.075							
56	17.64	33.443	-	-	-	-	374.0	30	17.65	33.447	24.19	373.9	.112							
65	15.96	33.297	-	-	-	-	347.3	50	17.64	33.470	24.21	372.1	.167							
78	13.96	33.169	-	-	-	-	315.5	75	14.38	33.193	24.73	322.1	.274							
98	11.74	33.092	-	-	-	-	279.7	100	11.58	33.086	25.20	277.3	.250							

93.100				CALCCFI CRUISE 6612										93.100			
DAVID STARR JORDAN, DECEMBER 3 1966, 2026 GMT, 30 33N 122 11W, SOUNDING 230C FM, WIND 210 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 28.																	
0	17.71	33.417	5.63	-	-	-	377.5	0	17.71	33.417	5.63	24.15	277.5	0			
8	17.71	33.416	5.60	-	-	-	377.5	10	17.71	33.416	5.60	24.15	277.5	.038			
31	17.68	33.416	5.70A	-	-	-	376.8	20	17.70	33.415	5.63	24.15	277.3	.076			
50	17.54K	33.42 G	-	-	-	-	373.3	30	17.68	33.416	5.69	24.16	276.5	.113			
56	17.44	33.420	5.96A	-	-	-	371.1	50	17.54	33.420	5.89	24.20	273.3	.189			
65	15.98	33.344	6.07	-	-	-	344.3	75	14.68	33.292	6.08	24.75	220.8	.276			
83	13.90	33.273	6.06	-	-	-	306.7	100	13.42	33.360	5.88	25.06	251.0	.353			
95	13.22	33.282	5.96	-	-	-	292.9	125	11.52	33.446	5.01	25.49	249.7	.421			
100	13.42K	33.36 G	-	-	-	-	291.0	150	9.97	33.673	3.94	25.94	207.1	.479			
109	13.06	33.434	5.67	-	-	-	278.7	200	9.15	33.908	4.07	26.26	176.5	.577			
132	10.80	33.451	4.67	-	-	-	237.1	250	8.19	34.009	3.47	26.49	155.2	.662			
148	10.04	33.653	3.95	-	-	-	209.7	300	7.40	34.029	2.78	26.62	142.7	.729			
170	9.48	33.822	4.12	-	-	-	188.3	400	6.31	34.101	1.43	26.83	123.2	.877			
198	9.19	33.901	4.07	-	-	-	178.0	500	5.58	34.209	.64	27.00	106.5	.957			
222	8.72	33.975	3.95	-	-	-	165.4										
266	7.91	34.016	3.16	-	-	-	150.7										
323	7.10	34.037	2.56	-	-	-	138.1										
413	6.20	34.115	1.25	-	-	-	120.9										
491	5.64	34.200	.68	-	-	-	107.9										
568	5.22	34.275	.46	-	-	-	97.5										

AI OXYGEN SAMPLES FOR 31 AND 56 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

INPUT								CLUTPL AT STANDARD LEVELS OF DEPTH									
Z	T	S	CXY	PHC	SIL	NIT	C*T	Z	T	S	CXY	SIG*T	C*T	CC			
93.110								CALCCFI CRUISE 6612								93.110	
DAVID STARR JORDAN, DECEMBER 4 1966, 0202 GMT, 30 09.5N 122 55W, SOUNDING 1950 FM, WIND 240 FORCE 4, WEATHER RAIN, SEA VERY ROUGH, WIRE ANGLE 17.																	
1	17.62	33.354	5.66	-	-	-	380.0	0	17.62	33.354	5.66	24.13	380.0	0			
10	17.60	33.353	5.62	-	-	-	379.6	10	17.60	33.353	5.62	24.13	379.6	.038			
20	17.60K	33.35 G	-	-	-	-	379.8	20	17.60	33.350	5.63	24.13	379.8	.076			
30	17.60K	33.35 G	-	-	-	-	379.8	30	17.60	33.350	5.64	24.13	379.8	.114			
34	17.60	33.353	5.67	-	-	-	379.6	50	17.60	33.350	6.13	24.13	379.8	.190			
50	17.60K	33.35 G	-	-	-	-	379.8	75	13.09	33.192	5.95	25.00	297.1	.275			
62	14.68	33.223	6.31	-	-	-	325.9	100	11.86	33.317	5.38	25.33	265.2	.346			
72	13.34	33.183	6.03	-	-	-	302.4	125	10.42	33.499	4.49	25.73	227.2	.408			
91	12.24	33.284	5.55	-	-	-	274.5	150	9.84	33.757	4.41	26.03	198.8	.462			
106	11.58	33.342	5.23	-	-	-	258.5	200	8.88	33.950	3.24	26.34	169.7	.556			
120	10.62	33.445	4.59	-	-	-	234.5	250	8.01	34.019	3.27	26.52	151.5	.628			
149	9.86	33.750	4.40	-	-	-	199.6	300	7.31	34.090	2.09	26.68	137.0	.713			
167	9.54	33.857	4.45	-	-	-	186.6	400	6.69	34.205	.98	26.86	120.4	.847			
196	8.96	33.940	3.27	-	-	-	171.6	500	5.69	34.233	.78	27.01	106.0	.966			
229	8.36	34.007	3.32	-	-	-	157.8	600	5.13	34.304	.46	27.13	94.3	1.073			
260	7.85	34.023	3.18	-	-	-	149.3										
305	7.26	34.100	1.93	-	-	-	135.6										
369	7.02	34.204	1.14	-	-	-	124.6										
466	5.93	34.206	.84	-	-	-	110.8										
554	5.36	34.273	.63A	-	-	-	99.2										
628	5.02	34.322	.33A	-	-	-	91.7										

93.120				CALCOFI CRUISE 6612										93.120			
DAVID STARR JORDAN, DECEMBER 4 1966, 0706 GMT, 29 49.5N 123 33.5W, SOUNDING 2200 FM, WIND 230 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 25.																	
0	17.88	33.483	5.62	-	-	-	376.6	0	17.88	33.483	5.62	24.16	376.6	0			
8	17.89	33.480	5.60	-	-	-	377.0	10	17.89	33.480	5.60	24.16	377.1	.038			
20	17.90K	33.48 G	-	-	-	-	377.3	20	17.90	33.480	5.59	24.15	377.3	.075			
31	17.90	33.481	5.60	-	-	-	377.2	30	17.90	33.481	5.60	24.15	377.2	.113			
50	17.90K	33.48 G	-	-	-	-	377.3	50	17.90	33.480	5.65	24.15	377.3	.189			
57	17.39	33.367	5.67	-	-	-	373.8	75	14.20	33.277	6.14	24.84	312.4	.276			
66	15.52	33.369	6.15	-	-	-	332.7	100	12.84	33.190	6.03	25.04	292.5	.352			
75	-	-	6.14G	-	-	-	-	125	12.54	33.480	5.38	25.33	265.5	.422			
85	13.29	33.171	6.12	-	-	-	302.4	150	10.83	33.585	4.85	25.72	227.8	.485			
99	12.84	33.183	6.06	-	-	-	293.0	200	8.94	33.923	4.01	26.31	172.5	.586			
100	12.84K	33.19 G	-	-	-	-	292.5	250	8.21	34.009	3.72	26.49	155.4	.670			
111	13.27	33.460	5.69	-	-	-	280.8	300	7.31	34.033	2.72	26.64	141.2	.747			
137	11.52	33.511	5.15	-	-	-	245.0	400	6.28	34.103	1.38	26.83	122.8	.864			
154	10.64	33.613	4.75	-	-	-	222.4	500	5.59	34.201	.58	26.99	107.2	1.005			
178	9.50	33.807	4.21	-	-	-	189.7										
206	8.84	33.945	4.00	-	-	-	169.4										
231	8.56	34.001	4.09	-	-	-	161.1										
272	7.76	34.018	3.16	-	-	-	148.5										
327	6.94	34.049	2.36	-	-	-	135.2										
415	6.18	34.116	1.21	-	-	-	120.6										
495	5.62	34.196	.61	-	-	-	107.9										
564	5.35	34.272	.39	-	-	-	99.2										

93.130				CALCOFI CRUISE 6612										93.130			
DAVID STARR JORDAN, DECEMBER 4 1966, 1215 GMT, 29 28.5N 124 11.5W, SOUNDING 2450 FM, WIND 250 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 28.																	
1	18.48	33.761	5.54	-	-	-	370.4	0	18.48	33.761	5.54	24.23	370.4	0			
9	18.49	33.774	5.49	-	-	-	365.7	10	18.52	33.787	5.49	24.24	369.4	.037			
20	18.80K	33.92 G	-	-	-	-	366.5	20	18.80	33.920	5.47	24.27	366.5	.074			
31	18.86	33.943	5.49	-	-	-	366.2	30	18.86	33.941	5.49	24.27	366.3	.111			
40	18.88	33.957	5.51	-	-	-	365.7	50	18.85	33.961	5.59	24.29	364.6	.184			
53	18.83	33.958	5.64	-	-	-	364.4	75	16.62	33.890	6.01	24.77	318.4	.270			
67	16.90	33.886	6.04	-	-	-	324.9	100	16.00	34.000	5.65	25.00	296.7	.347			
75	16.62K	33.89 G	-	-	-	-	318.4	125	15.71	34.203	5.52	25.22	275.7	.420			
89	16.20	33.912	5.79	-	-	-	307.6	150	13.90	34.034	5.24	25.48	250.8	.487			
106	15.92	34.059	5.59	-	-	-	290.8	200	10.14	33.810	4.62	26.02	199.7	.601			
124	15.75	34.203	5.53	-	-	-	276.6	250	9.07	33.969	4.24	26.32	171.1	.696			
148	14.12	34.063	5.25	-	-	-	253.1	300	8.13	34.011	3.68	26.50	154.2	.780			
173	11.40	33.741	5.06	-	-	-	225.9	400	6.63	34.041	2.31	26.74	131.7	.928			
207	9.99	33.860	4.51	-	-	-	193.6	500	5.67	34.119	1.14	26.92	114.2	1.057			
231	9.47	33.929	4.39	-	-	-	180.2										
272	8.63	34.001	4.02	-	-	-	162.2										
330	7.64	34.020	3.28	-	-	-	146.7										
416	6.43	34.048	2.09	-	-	-	128.8										
498	5.68	34.117	1.16	-	-	-	114.6										
568	5.26	34.196	.75	-	-	-	103.8										

A) OXYGEN SAMPLES AT 554 AND 628 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

INPLT							CLTPT AT STANDARC LEVELS OF DEPTH								
Z	T	S	CXY	PFD	SIL	NIT	C#T	Z	T	S	CXY	SIG#T	C#T	CC	
94.139							CALCOFI CRUISE 6612							94.139	
DAVID STARR JORDAN, DECEMBER 4 1966, 1712 GMT, 29 09N 124 47W, SOUNDING 230C FM, WIND 220 FORCE 4, WEATHER CVERCAST, SEA ROLGH, WIRE ANGLE 28.															
C	19.02	34.017	5.44	-	-	-	364.7	0	19.02	34.017	5.44	24.29	364.7	C	
8	19.02	34.020	5.47	-	-	-	364.5	10	19.02	34.020	5.47	24.29	364.5	.C36	
30	19.02	34.018	5.49	-	-	-	364.6	20	19.02	34.020	5.48	24.29	364.5	.C73	
50	19.02K	33.02 G	-	-	-	-	437.1	30	19.02	34.018	5.49	24.29	364.6	.110	
56	19.02	34.021	5.50	-	-	-	364.4	50	19.02	33.020	5.50	23.53	437.1	.150	
65	18.64	34.014	5.63	-	-	-	355.8	75	16.92	33.930	5.77	24.73	322.2	.285	
75	16.92K	33.93 G	-	-	-	-	322.2	100	16.08	34.033	5.83	25.01	296.1	.363	
85	16.42	33.928	5.86	-	-	-	311.2	125	15.45	34.108	5.49	25.20	277.2	.436	
98	16.14	34.027	5.85	-	-	-	297.9	150	14.52	34.148	5.25	25.44	254.9	.503	
110	15.76	34.053	5.71	-	-	-	287.8	200	10.79	33.876	4.41	25.96	205.6	.621	
135	15.20	34.139	5.36	-	-	-	269.6	250	9.66	34.041	4.47	26.28	174.9	.718	
152	14.40	34.145	5.23	-	-	-	252.7	300	8.63	34.066	3.21	26.47	157.4	.804	
177	12.00	33.880	4.72	-	-	-	226.3	400	6.85	34.046	2.49	26.71	134.2	.955	
210	10.49	33.918	4.38	-	-	-	197.4	500	5.71	34.110	1.21	26.91	115.5	1.066	
235	10.04	34.040	4.84	-	-	-	181.0								
277	8.98	34.047	3.52	-	-	-	164.0								
333	8.20	34.089	2.98	-	-	-	149.4								
420	6.46	34.033	2.32	-	-	-	130.2								
499	5.72	34.109	1.22	-	-	-	115.6								
567	5.34	34.183	.93	-	-	-	105.7								

96.31														CALCOFI CRUISE 6612														96.31															
ALEXANDER AGASSIZ, DECEMBER 2 1966, 2315 GMT, 32 24N 117 20W, SOUNDING 390 FM, WIND 250 FORCE 2, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 08.4)																																											
0	16.13	33.458	5.89	-	-	-	339.2	0	16.13	33.458	5.89	24.55	339.2	0																													
10	15.82	33.447	5.95	-	-	-	333.3	10	15.82	33.447	5.95	24.61	333.3	.034																													
20	15.43	33.433	5.91	-	-	-	326.1	20	15.43	33.433	5.91	24.69	326.1	.067																													
30	14.55	33.401	5.77	-	-	-	310.3	30	14.55	33.401	5.77	24.86	310.3	.099																													
40	13.32	33.377	5.44	-	-	-	287.8	50	12.44	33.399	5.07	25.28	269.7	.157																													
50	12.44	33.399	5.07	-	-	-	269.7	75	11.51	33.557	4.21	25.58	241.5	.221																													
60	11.98	33.451	4.69	-	-	-	257.5	100	10.82	33.649	3.98	25.78	222.8	.280																													
70	11.70	33.550	4.32	-	-	-	245.3	125	10.06	33.740	3.66	25.98	203.5	.333																													
80	11.32	33.566	4.13	-	-	-	237.5	150	9.99	33.968	2.86	26.17	185.5	.383																													
89	11.00	33.601	4.01	-	-	-	229.4																																				
99	10.83	33.645	4.01	-	-	-	223.3																																				
109	10.69	33.684	3.72	-	-	-	218.0																																				
119	10.32	33.713	3.64	-	-	-	209.8																																				
129	9.92	33.766	3.65	-	-	-	199.4																																				
139	9.96	33.883	-	-	-	-	191.4																																				
149	9.99	33.966	2.86	-	-	-	185.7																																				
159	9.90	33.994	2.82	-	-	-	182.2																																				
168	-	34.030	2.65	-	-	-	-																																				

CALCOFI CRUISE 6612														97.35
ALEXANDER AGASSIZ, DECEMBER 3 1966, 0449 GMT, 32 05.5N 117 28W, SOUNDING 658 FM, WIND 220 FORCE 2, WEATHER MISSING, SEA MISSING, WIRE ANGLE 07.														
0	17.08	33.537	5.57	-	-	-	354.4	0	17.08	33.537	5.57	24.39	354.4	0
10	17.04	33.537	5.66	-	-	-	353.5	10	17.04	33.537	5.66	24.40	353.5	.035
30	16.78	33.503	5.63	-	-	-	350.2	20	16.93	33.523	5.63	24.42	352.0	.071
40	14.93	33.320	5.82	-	-	-	323.9	30	16.78	33.503	5.63	24.44	350.2	.106
50	13.23	33.184	5.53	-	-	-	300.3	50	13.23	33.184	5.53	24.96	300.3	.171
65	12.28	33.163	5.45	-	-	-	284.2	75	11.76	33.254	5.23	25.30	268.1	.243
80	11.50	33.314	5.09	-	-	-	259.2	100	10.33	33.509	4.53	25.75	225.1	.305
99	10.37	33.499	-	-	-	-	226.4	125	9.84	33.764	3.68	26.04	198.2	.358
124	9.84	33.753	3.72	-	-	-	199.1	150	9.79	33.991	2.78	26.22	180.8	.406
144	9.86	33.955	2.91	-	-	-	184.4	200	8.60	34.024	2.78	26.44	160.0	.493
173	9.36	34.056	2.57	-	-	-	169.1	250	8.11	34.073	2.35	26.55	149.3	.572
203	8.52	34.019	2.80	-	-	-	159.2	300	7.50	34.081	2.13	26.65	140.2	.647
233	8.30	34.071	2.45	-	-	-	152.2	400	6.97	34.238	.79	26.84	121.4	.783
273	7.82	34.076	2.26	-	-	-	145.0	500	6.29	34.288	.42	26.97	109.1	.905
333	7.17	34.101	1.89	-	-	-	134.3							
407	6.94	34.253	.72	-	-	-	119.9							
482	6.39	34.287	.47	-	-	-	110.4							
562	6.04	34.272	1.05U	-	-	-	107.2							

A) SHAKEDOWN STATION.

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CC		
97.40								CALCOFI CRUISE 6612								97.40
ALEXANDER AGASSIZ, DECEMBER 3 1966, 0847 GMT, 31 56N 117 46W, SOUNDING 714 FM, WIND 240 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 08.																
0	16.96	33.499	5.72	-	-	-	354.5	0	16.96	33.499	5.72	24.39	354.5	0		
10	16.93	33.499	5.70	-	-	-	353.8	10	16.93	33.499	5.70	24.40	353.8	.035		
20	16.94K	33.50 G	-	-	-	-	353.9	20	16.94	33.500	5.70	24.40	353.9	.071		
30	16.94	33.501	5.71	-	-	-	353.9	30	16.94	33.501	5.71	24.40	353.9	.106		
40	15.38	33.515U	6.23	-	-	-	319.0	50	14.42	33.289	5.92	24.80	315.8	.174		
50	14.42	33.289	5.92	-	-	-	315.8	75	12.23	33.204	5.56	25.17	280.3	.248		
64	12.89	33.241	5.79	-	-	-	289.7	100	10.84	33.340	4.53	25.53	245.9	.315		
79	12.05	33.199	5.44	-	-	-	277.4	125	9.90	33.469	3.86	25.80	221.0	.374		
99	10.89	33.336	4.56	-	-	-	247.1	150	9.51	33.670	3.47	26.02	200.0	.427		
123	9.94	33.451	3.90	-	-	-	223.0	200	8.60	33.910	3.17	26.35	168.5	.521		
143	9.62	33.634	3.56	-	-	-	204.4	250	8.04	34.013	2.67	26.51	152.8	.603		
172	9.14	33.757	3.27	-	-	-	187.9	300	7.44	34.048	2.08	26.63	141.9	.679		
201	8.58	33.915	3.17	-	-	-	167.8	400	6.67	34.108	.90	26.78	127.4	.819		
231	8.26	33.992	2.89	-	-	-	157.5	500	6.00	34.238	.59	26.97	109.3	.943		
271	7.80	34.026	2.42	-	-	-	148.4									
329	7.12	34.067	1.74	-	-	-	136.2									
403	6.66	34.110	.87	-	-	-	127.0									
478	6.12	34.212	.65	-	-	-	112.7									
558	5.79	34.298	.46	-	-	-	102.3									

97.50							CALCOFI CRUISE 6612							97.50						
ALEXANDER AGASSIZ, DECEMBER 3 1966, 1520 GMT, 31 33N 118 30.5W, SOUNDING 1300 FM, WIND 230 FORCE 4, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 18.																				
0	17.70	33.507	5.64	-	-	-	370.7	0	17.70	33.507	5.64	24.22	370.7	0						
9	17.69	33.504	5.58	-	-	-	370.7	10	17.69	33.504	5.58	24.22	370.7	.037						
20	17.70K	-	-	-	-	-	-	20	17.70	33.503	5.56	24.22	370.9	.074						
31	17.70	33.503	5.57	-	-	-	371.0	30	17.71	33.503	5.57	24.22	371.2	.111						
58	15.21	33.331	-	-	-	-	328.9	50	15.99	33.382	5.73	24.53	341.8	.183						
68	14.96	33.317	5.98	-	-	-	324.8	75	14.34	33.363	6.10	24.87	308.9	.265						
77	14.16	33.379	6.12	-	-	-	304.0	100	13.35	33.483	5.42	25.17	280.6	.339						
95	13.73	33.473	5.57	-	-	-	288.7	125	11.95	33.557	4.73	25.50	249.3	.406						
109	12.62	33.497	5.15	-	-	-	265.8	150	10.94	33.684	4.20	25.78	222.2	.466						
132	11.74	33.590	4.57	-	-	-	243.0	200	9.16	33.945	3.57	26.29	174.3	.567						
150	10.94	33.684	4.20	-	-	-	222.2	250	8.38	34.036	2.95	26.48	155.9	.651						
177	9.92	33.913	3.38	-	-	-	188.5	300	7.80	34.095	2.13	26.61	143.2	.728						
204	9.05	33.951	3.62	-	-	-	172.1	400	6.83	34.213	.87	26.84	121.5	.866						
231	8.59	34.011	3.21	-	-	-	160.8	500	6.21	34.269	.52	26.97	109.5	.988						
278	8.10	34.064	2.54	-	-	-	149.8													
328	7.42	34.135	1.62	-	-	-	135.1													
407	6.79	34.219	.83	-	-	-	120.5													
488	6.28	34.263	.55	-	-	-	110.8													
569	5.82	34.304	.41	-	-	-	102.2													

97.60				CALCOFI CRUISE 6612								97.60			
ALEXANDER AGASSIZ, DECEMBER 3 1966, 2127 GMT, 31 14N 119 08.5W, SOUNDING 1960 FM, WIND 220 FORCE 4, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 30.															
1	17.86	33.481	5.53	-	-	-	376.3	0	17.86	33.481	5.53	24.16	376.3	0	
9	17.82	33.482	5.54	-	-	-	375.3	10	17.82	33.482	5.54	24.18	375.2	.038	
27	17.82	33.482	5.55	-	-	-	375.3	20	17.82	33.483	5.55	24.18	375.1	.075	
52	17.72	33.463	5.57	-	-	-	374.3	30	17.81	33.480	5.55	24.18	375.2	.113	
61	16.10	33.348	5.93	-	-	-	346.6	50	17.73	33.473	5.57	24.19	373.8	.188	
74	14.92	33.335	6.01	-	-	-	322.6	75	14.84	33.335	6.02	24.75	320.9	.275	
86	14.04	33.362	6.02	-	-	-	302.9	100	13.26	33.454	5.49	25.16	281.0	.351	
98	13.38	33.447	5.53	-	-	-	283.8	125	11.69	33.592	4.30	25.57	242.0	.417	
116	12.25	33.485	5.02	-	-	-	259.9	150	10.64	33.831	3.26	25.95	206.4	.474	
132	11.30	33.686	3.74	-	-	-	228.3	200	9.88	34.010	2.78	26.22	180.7	.572	
154	10.54	33.854	3.18	-	-	-	203.0	250	8.72	34.097	2.56	26.48	156.4	.659	
178	10.09	33.950	2.95	-	-	-	188.5	300	7.84	34.090	2.31	26.60	144.3	.737	
201	9.87	34.012	2.77	-	-	-	180.4	400	6.98	34.225	.95	26.83	122.6	.876	
241	8.93	34.099	2.58	-	-	-	159.4	500	6.16	34.265	.61	26.97	109.3	.998	
286	8.00	34.077	2.49	-	-	-	147.4								
356	7.40	34.168	1.43	-	-	-	132.4								
430	6.72	34.250	.73	-	-	-	117.3								
506	6.12	34.266	.60	-	-	-	108.6								

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	UXY	PHU	SIL	NIT	D+T	Z	T	S	UXY	SIG* T	D+T	DE		
97.70							CALCOFI CRUISE 6612								97.70	
ALEXANDER AGASSIZ, DECEMBER 4 1966, 0429 GMT, 30 55N 119 50.5W, SOUNDING 1920 FM, WIND 230 FORCE 4, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 12.																
0	18.19	33.585	5.48	-	-	-	176.4	0	18.19	33.585	5.48	24.16	376.4	0		
10	18.18	33.583	5.48	-	-	-	375.3	10	18.18	33.583	5.48	24.16	376.3	.038		
35	17.59	33.487	5.59	-	-	-	369.6	20	17.94	33.544	5.53	24.19	373.6	.075		
44	17.58	33.485	5.57	-	-	-	369.5	30	17.71	33.506	5.57	24.22	370.9	.112		
59	15.65	33.354	5.98	-	-	-	356.5	50	16.91	33.430	5.74	24.35	358.4	.186		
74	14.43	33.427	5.74	-	-	-	305.9	75	14.32	33.431	5.69	24.93	303.4	.269		
98	11.98	33.532	4.53	-	-	-	251.6	100	11.85	33.542	4.45	25.51	248.5	.338		
118	10.90	33.646	3.89	-	-	-	224.4	125	10.57	33.702	3.80	25.86	214.7	.397		
137	10.10	33.799	3.70	-	-	-	199.8	150	9.81	33.886	3.47	26.14	182.7	.448		
167	9.56	33.969	3.19	-	-	-	178.7	200	9.08	34.025	3.08	26.36	167.1	.539		
197	9.10	34.014	3.14	-	-	-	168.2	250	8.42	34.122	2.26	26.54	150.1	.620		
237	8.73	34.132	2.28	-	-	-	153.9	300	7.74	34.129	1.91	26.65	139.9	.695		
266	8.04	34.103	2.23	-	-	-	146.1	400	6.96	34.243	.83	26.85	121.0	.831		
316	7.67	34.151	1.71	-	-	-	137.3	500	6.29	34.295	.51	26.98	108.6	.952		
379	7.04	34.216	.98	-	-	-	124.0	600	5.31	34.291	.44	27.10	97.3	1.062		
480	6.63	34.314	.52	-	-	-	111.4									
570	5.48	34.276	.47	-	-	-	100.3									
644	5.25	34.338	.39	-	-	-	93.1									

97.80							CALCOFI CRUISE 6612							97.80		
ALEXANDER AGASSIZ, DECEMBER 4 1966, 1015 GMT, 30 34N 120 32.5W, SOUNDING 2024 FM, WIND 250 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 14.																
0	17.88	33.540	5.56	-	-	-	372.4	0	17.88	33.540	5.56	24.20	372.4	0		
10	17.88	33.538	5.51	-	-	-	372.6	10	17.88	33.538	5.51	24.20	372.6	.037		
20	17.88K	-	-	-	-	-	-	20	17.88	33.538	5.51	24.20	372.6	.075		
30	17.88K	-	-	-	-	-	-	30	17.88	33.537	5.52	24.20	372.6	.112		
35	17.88	33.537	5.53	-	-	-	372.6	50	16.30	33.437	5.72	24.50	344.4	.184		
64	14.72	33.349	5.97	-	-	-	317.5	75	14.65	33.343	6.16	24.79	316.4	.267		
74	14.69	33.342	6.17	-	-	-	317.4	100	12.88	33.417	5.26	25.21	276.5	.342		
94	13.34	33.382	5.56	-	-	-	287.8	125	11.24	33.659	3.96	25.71	229.3	.405		
109	12.20	33.488	4.77	-	-	-	258.8	150	10.83	33.831	3.20	25.92	209.6	.461		
124	11.27	33.650	4.00	-	-	-	230.4	200	9.37	33.979	3.20	26.28	175.0	.559		
154	10.76	33.850	3.14	-	-	-	206.9	250	8.46	34.079	2.54	26.50	153.9	.643		
173	10.23	33.932	3.10	-	-	-	192.1	300	7.77	34.127	1.92	26.64	140.4	.719		
203	9.28	33.982	3.20	-	-	-	173.4	400	6.72	34.213	.99	26.86	120.1	.855		
237	8.69	34.062	2.68	-	-	-	158.5	500	6.16	34.304	.51	27.00	106.3	.974		
267	8.17	34.095	2.37	-	-	-	146.5	600	5.67	34.362	.41	27.11	96.1	1.083		
316	7.60	34.142	1.71	-	-	-	137.0									
380	6.89	34.196	1.15	-	-	-	123.5									
479	6.20	34.279	.54	-	-	-	108.7									
569	5.88	34.358	.43	-	-	-	98.9									
642	5.30	34.368	.39	-	-	-	91.4									

100.30							CALCOFI CRUISE 6612							100.30		
ALEXANDER AGASSIZ, DECEMBER 5 1966, 2110 GMT, 31 40.5N 116 46.5W, SOUNDING 220 FM, WIND 170 FORCE 3, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 29.																
1	14.69	33.364	6.08	-	-	-	315.8	0	14.69	33.364	6.08	24.80	315.8	0		
9	-	33.364	6.11	-	-	-	-	10	14.50	33.350	6.08	24.83	313.0	.031		
10	14.50K	33.35 G	-	-	-	-	313.0	20	13.65	33.430	5.74	25.07	290.3	.062		
20	13.65K	33.43 G	-	-	-	-	290.3	30	13.60	33.444	5.35	25.09	288.2	.091		
27	13.65	33.439	5.43	-	-	-	289.6	50	13.07	33.492	4.74	25.23	274.6	.147		
40	13.33	33.466	5.10	-	-	-	281.5	75	12.21	33.607	3.70	25.49	250.3	.213		
53	12.98	33.503	4.61	-	-	-	272.1	100	11.80	33.680	3.45	25.62	237.5	.275		
66	12.38	33.581	3.82	-	-	-	255.2	125	11.17	33.786	3.12	25.82	218.6	.332		
80	12.16	33.617	3.64	-	-	-	248.6	150	10.47	33.902	2.89	26.03	198.4	.385		
96	11.90	33.662	3.51	-	-	-	240.6	200	9.29	34.107	2.22	26.39	164.2	.478		
118	11.32	33.767	3.17	-	-	-	222.6	250	8.79	34.158	1.87	26.51	152.8	.559		
143	10.75	33.846	3.04	-	-	-	207.1	300	8.25	34.191	1.54	26.62	142.6	.635		
175	9.56	34.088	2.33	-	-	-	169.9									
205	9.24	34.111	2.20	-	-	-	163.2									
240	8.88	34.148	1.95	-	-	-	155.0									
280	8.48	34.181	1.66	-	-	-	146.6									
317	8.04	34.195	1.45	-	-	-	139.2									

INPUT

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	PHO	SIL	NIT	U*T	Z	T	S	OXY	SIG*T	U*T	DD	
100.35							CALCOFI CRUISE 6612							100.35	
ALEXANDER AGASSIZ, DECEMBER 5 1966, 1755 GMT, 31 28N 117 08W, SOUNDING 524 FM, WIND 200 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 13.															
0	17.12	33.518	5.66	-	-	-	356.7	0	17.12	33.518	5.66	24.37	356.7	0	
10	17.10	33.516	5.65	-	-	-	356.4	10	17.10	33.516	5.65	24.37	356.4	.036	
29	15.92	33.513	5.87	-	-	-	330.6	20	16.87	33.514	5.77	24.43	351.3	.071	
38	13.71	33.238	5.83	-	-	-	305.5	30	15.67	33.482	5.87	24.67	327.7	.105	
53	12.36	33.198	5.62	-	-	-	263.0	50	12.49	33.199	5.68	25.12	285.4	.167	
68	11.50	33.332	5.11	-	-	-	257.8	75	11.48	33.406	4.81	25.47	252.0	.234	
92	11.42	33.565	4.18	-	-	-	239.3	100	11.25	33.606	4.03	25.67	233.3	.295	
111	10.94	33.657	3.87	-	-	-	224.2	125	10.45	33.760	3.57	25.93	208.4	.351	
131	10.24	33.806	3.45	-	-	-	201.6	150	9.82	33.926	3.18	26.16	186.0	.401	
150	9.82	33.926	3.18	-	-	-	186.0	200	9.20	34.100	2.52	26.40	163.4	.490	
180	9.50	34.048	2.76	-	-	-	171.9	250	8.93	34.239	1.73	26.55	148.9	.570	
213	9.04	34.132	2.35	-	-	-	158.6	300	8.06	34.208	1.49	26.66	138.6	.645	
242	9.04	34.237	1.80	-	-	-	150.8	400	6.99	34.236	.90	26.84	121.9	.781	
291	8.18	34.206	1.55	-	-	-	140.4	500	6.28	34.291	.54	26.98	108.8	.903	
345	7.56	34.226	1.19	-	-	-	130.2	600	5.77	34.347	.41	27.09	98.4	1.013	
427	6.75	34.243	.78	-	-	-	118.2								
511	6.22	34.298	.51	-	-	-	107.5								
594	5.80	34.344	.42	-	-	-	99.0								

100.40 CALCOFI CRUISE 6612 100.40
ALEXANDER AGASSIZ, DECEMBER 5 1966, 1423 GMT, 31 19N 117 27.5W, SOUNDING 1079 FM, WIND 210 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 19.

0	16.98	33.369	5.64	-	-	-	364.4	0	16.98	33.369	5.64	24.29	364.4	0
10	16.98	33.368	5.70	-	-	-	364.5	10	16.98	33.368	5.70	24.29	364.5	.036
29	16.68	33.442	5.72	-	-	-	352.4	20	16.85	33.437	5.71	24.37	356.6	.073
38	15.24	33.275	5.99	-	-	-	333.7	30	16.53	33.424	5.75	24.44	350.5	.108
53	13.44	33.196	5.90	-	-	-	303.4	50	13.74	33.207	5.96	24.88	308.4	.174
68	12.46	33.215	5.51	-	-	-	283.6	75	11.92	33.245	5.39	25.26	271.6	.247
92	10.95	33.390	4.91	-	-	-	244.1	100	10.97	33.522	4.37	25.65	234.7	.311
111	11.10	33.697	3.65	-	-	-	224.0	125	10.88	33.792	3.29	25.88	213.3	.367
130	10.75	33.809	3.24	-	-	-	209.8	150	10.02	33.859	3.21	26.08	194.1	.419
149	10.04	33.853	3.23	-	-	-	194.9	200	9.30	34.083	2.61	26.37	166.2	.511
177	9.69	34.029	2.70	-	-	-	176.3	250	8.89	34.128	2.20	26.47	156.5	.594
210	9.15	34.092	2.56	-	-	-	163.2	300	8.27	34.157	1.84	26.59	145.2	.672
239	8.97	34.120	2.27	-	-	-	158.4	400	7.00	34.219	.96	26.83	123.2	.812
287	8.49	34.150	1.97	-	-	-	149.0	500	6.24	34.292	.50	26.98	108.2	.934
339	7.58	34.180	1.43	-	-	-	133.9	600	5.70	34.353	.36	27.10	97.0	1.044
421	6.86	34.234	.83	-	-	-	120.3							
503	6.22	34.294	.49	-	-	-	107.8							
585	5.76	34.345	.38	-	-	-	98.4							

100.50 CALCOFI CRUISE 6612 100.50
ALEXANDER AGASSIZ, DECEMBER 5 1966, 0839 GMT, 30 56.5N 118 06W, SOUNDING 900 FM, WIND 220 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 13.

0	17.36	33.378	5.58	-	-	-	372.3	0	17.36	33.378	5.58	24.21	372.3	0
10	17.33	33.376	5.60	-	-	-	371.8	10	17.33	33.376	5.60	24.21	371.8	.037
30	17.32	33.376	5.61	-	-	-	371.5	20	17.32	33.384	5.61	24.22	371.1	.074
38	16.90	33.340	5.73	-	-	-	364.7	30	17.32	33.376	5.61	24.21	371.5	.112
53	15.57	33.351	5.98	-	-	-	335.0	50	15.84	33.344	5.94	24.53	341.3	.183
67	14.90	33.377	5.97	-	-	-	319.2	75	13.10	33.290	5.83	25.07	290.0	.262
75	13.10K	33.29 G	-	-	-	-	290.0	100	11.81	33.347	5.02	25.36	262.2	.332
91	12.16	33.283	5.37	-	-	-	273.2	125	11.33	33.607	3.91	25.65	234.6	.395
111	11.52	33.458	4.54	-	-	-	248.9	150	10.76	33.807	3.24	25.91	210.1	.451
130	11.27	33.658	3.71	-	-	-	229.8	200	9.02	33.920	3.57	26.29	174.0	.549
150	10.76	33.807	3.24	-	-	-	210.1	250	8.35	34.024	2.91	26.48	156.4	.634
180	9.50	33.846	3.83	-	-	-	186.8	300	7.74	34.064	2.42	26.60	144.8	.711
214	8.80	33.973	3.28	-	-	-	166.8	400	6.65	34.149	1.21	26.82	124.0	.851
243	8.44	34.018	2.97	-	-	-	158.1	500	6.33	34.292	.50	26.97	109.2	.974
292	7.84	34.054	2.54	-	-	-	146.9	600	5.72	34.354	.29	27.10	97.2	1.084
346	7.21	34.119	1.69	-	-	-	133.5							
430	6.42	34.168	1.02	-	-	-	119.7							
513	6.28	34.308	.44	-	-	-	107.5							
595	5.76	34.352	.30	-	-	-	97.9							

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PH	SIL	NTT	D*1	Z	T	S	OXY	SIG*1	D*1	DD		
100.60							CALCOFI CRUISE 6612								100.60	
ALEXANDER AGASSIZ, DECEMBER 5 1966, 0333 GMT, 30 38N 118 47W, SOUNDING 1660 FM, WIND 230 FORCE 4, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 17.																
0	17.94	33.553	5.51	-	-	-	372.9	0	17.94	33.553	5.51	24.20	372.9	0		
9	17.92	33.552	5.52	-	-	-	372.5	10	17.92	33.552	5.52	24.20	372.5	.037		
28	17.90	33.547	5.52	-	-	-	372.4	20	17.91	33.549	5.51	24.21	372.4	.075		
30	17.89K	-	-	-	-	-	-	30	17.89	33.530	5.57	24.19	373.4	.112		
58	14.66	33.318	6.02	-	-	-	318.6	50	15.89	33.375	5.94	24.54	340.1	.184		
67	13.57	33.319	5.83	-	-	-	296.9	75	12.78	33.355	5.45	25.18	279.2	.261		
81	12.32	33.402	5.09	-	-	-	267.3	100	11.70	33.613	3.89	25.59	240.7	.327		
95	11.62	33.571	4.14	-	-	-	245.9	125	11.31	33.802	2.82	25.81	219.8	.385		
110	11.52	33.684	3.47	-	-	-	232.2	150	11.09	33.929	2.13	25.95	206.8	.439		
133	11.22	33.858	2.53	-	-	-	214.2	200	10.43	34.048	2.09	26.16	186.8	.539		
152	11.08	33.935	2.10	-	-	-	206.1	250	10.01	34.177	1.94	26.33	170.4	.631		
180	10.82	33.996	1.93	-	-	-	197.2	300	9.56	34.304	1.36	26.50	153.9	.715		
208	10.28	34.069	2.16	-	-	-	182.8	400	7.92	34.267	1.05	26.73	132.2	.865		
236	10.12	34.137	2.06	-	-	-	175.2	500	6.99	34.303	.57	26.89	117.0	.996		
283	9.71	34.267	1.57	-	-	-	159.0	600	5.99	34.332	.50	27.05	102.1	1.114		
334	9.20	34.349	1.00	-	-	-	144.9									
415	7.63	34.242	1.09	-	-	-	130.0									
497	7.02	34.301	.58	-	-	-	117.4									
580	6.21	34.330	.51	-	-	-	105.0									

100.70							CALCOFI CRUISE 6612							100.70		
ALEXANDER AGASSIZ, DECEMBER 4 1966, 2105 GMT, 30 20N 119 27.5W, SOUNDING 2058 FM, WIND 220 FORCE 3, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 21.																
0	17.42	33.332	5.60	-	-	-	377.0	0	17.42	33.332	5.60	24.16	377.0	0		
10	17.36	33.326	5.58	-	-	-	376.1	10	17.36	33.326	5.58	24.17	376.1	.038		
28	17.34	33.330	5.65	-	-	-	375.3	20	17.35	33.328	5.61	24.17	375.7	.075		
30	17.33K	-	-	-	-	-	-	30	17.33	33.329	5.66	24.18	375.2	.113		
56	16.44	33.305	5.87	-	-	-	357.1	50	16.82	33.312	5.81	24.28	365.0	.187		
65	15.54	33.297	6.00	-	-	-	338.3	75	14.77	33.393	6.00	24.80	315.4	.273		
79	14.48	33.429	5.98	-	-	-	306.8	100	12.71	33.402	5.29	25.23	274.4	.347		
93	13.21	33.353	5.69	-	-	-	287.5	125	11.19	33.596	4.18	25.67	233.0	.411		
106	12.32	33.462	4.91	-	-	-	262.9	150	10.17	33.825	3.47	26.03	199.1	.466		
128	11.04	33.619	4.09	-	-	-	228.7	200	8.86	33.975	3.39	26.36	167.5	.559		
145	10.36	33.794	3.50	-	-	-	204.4	250	8.23	34.045	2.80	26.51	153.0	.641		
171	9.49	33.906	3.54	-	-	-	182.2	300	7.38	34.063	2.28	26.65	139.9	.717		
197	8.89	33.969	3.42	-	-	-	168.4	400	6.41	34.163	1.03	26.86	120.0	.852		
223	8.68	34.017	3.11	-	-	-	161.7	500	5.85	34.254	.55	27.00	106.3	.971		
267	7.90	34.055	2.61	-	-	-	147.7									
317	7.14	34.068	2.10	-	-	-	136.4									
394	6.46	34.159	1.07	-	-	-	120.8									
473	5.96	34.224	.65	-	-	-	109.9									
553	5.72	34.326	.40	-	-	-	99.4									

100.80							CALCOFI CRUISE 6612							100.80		
ALEXANDER AGASSIZ, DECEMBER 4 1966, 1525 GMT, 29 58.5N 120 11W, SOUNDING 2000 FM, WIND 220 FORCE 3, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 11.																
0	17.36	33.392	5.58	-	-	-	371.3	0	17.36	33.392	5.58	24.22	371.3	0		
10	17.34	33.392	5.58	-	-	-	370.8	10	17.34	33.392	5.58	24.22	370.8	.037		
30	17.12	33.369	5.64	-	-	-	367.5	20	17.25	33.384	5.59	24.24	369.3	.074		
60	14.32	33.290	6.06	-	-	-	313.8	30	17.12	33.369	5.64	24.26	367.5	.111		
70	13.05	33.219	5.76	-	-	-	294.3	50	15.50	33.330	6.01	24.60	335.1	.182		
84	12.15	33.275	5.42	-	-	-	273.6	75	12.67	33.228	5.64	25.11	286.5	.260		
99	11.22	33.342	5.02	-	-	-	252.3	100	11.16	33.349	4.98	25.48	250.6	.327		
114	10.34	33.460	-	-	-	-	228.8	125	9.94	33.565	4.07	25.86	214.7	.386		
138	9.64	33.682	3.65	-	-	-	201.2	150	9.43	33.759	3.48	26.10	192.3	.438		
157	9.34	33.796	3.42	-	-	-	188.1	200	8.79	33.952	3.16	26.35	168.1	.529		
186	8.98	33.907	3.20	-	-	-	174.4	250	7.90	34.047	2.52	26.56	148.2	.610		
215	8.55	33.992	3.13	-	-	-	161.7	300	7.42	34.101	1.81	26.67	137.6	.684		
245	7.96	34.041	2.60	-	-	-	149.5	400	6.45	34.170	.98	26.86	119.8	.818		
294	7.48	34.095	1.89	-	-	-	138.9	500	5.75	34.261	.52	27.02	104.6	.936		
348	6.95	34.145	1.29	-	-	-	128.1	600	5.31	34.334	.34	27.13	94.1	1.042		
431	6.18	34.186	.85	-	-	-	115.4									
515	5.67	34.275	.47	-	-	-	102.6									
598	5.32	34.333	.34	-	-	-	94.3									

103.30							CALCOFI CRUISE 6612							103.30		
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0316 GMT, 31 06N 116 24.5W, SOUNDING 25 FM, WIND 180 FORCE 3, WEATHER DRIZZLY, SEA MODERATE, WIRE ANGLE 07.																
0	14.86	33.376	5.93	-	-	-	318.4	0	14.86	33.376	5.93	24.77	318.4	0		
10	14.70	33.383	5.95	-	-	-	314.6	10	14.70	33.383	5.95	24.81	314.6	.032		
20	14.60	33.394	5.90	-	-	-	311.8	20	14.60	33.394	5.90	24.84	311.8	.063		
30	13.84	33.456	5.57	-	-	-	292.1	30	13.84	33.456	5.57	25.05	292.1	.093		
40	13.60	33.475	4.99	-	-	-	286.0									

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
CALCOFI CRUISE 6612								103.35							
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0630 GMT, 30 55.5N 116 45W, SOUNDING 986 FM, WIND 200 FORCE 3, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 25.															
0	16.44	33.459	5.85	-	-	-	345.9	0	16.44	33.459	5.85	24.48	345.9	0	
9	16.45	33.459	5.76	-	-	-	346.1	10	16.45	33.456	5.77	24.48	346.3	.035	
10	16.45K	-	-	-	-	-	-	20	15.10	33.430	5.88	24.76	319.4	.068	
20	15.10K	33.43 G	-	-	-	-	319.4	30	14.96	33.430	5.87	24.79	316.5	.100	
27	15.00	33.428	5.93	-	-	-	317.5	50	13.17	33.394	5.60	25.14	283.7	.160	
30	14.96K	33.43 G	-	-	-	-	316.5	75	11.58	33.466	4.57	25.50	249.4	.227	
36	14.50	33.399	5.74	-	-	-	309.4	100	10.43	33.642	4.20	25.84	216.8	.286	
50	13.17	33.394	5.60	-	-	-	283.7	125	10.13	33.858	3.35	26.06	195.9	.338	
63	12.45	33.377	5.10	-	-	-	271.5	150	9.52	33.976	3.08	26.25	177.5	.385	
84	10.98	33.553	4.25	-	-	-	232.6	200	9.38	34.185	2.14	26.44	159.8	.471	
102	10.39	33.654	4.17	-	-	-	215.3	250	9.68	34.406	.86	26.56	148.2	.551	
119	10.26	33.815	3.46	-	-	-	201.3	300	9.21	34.414	.92	26.65	140.2	.626	
136	9.84	33.922	3.23	-	-	-	186.6	400	7.47	34.294	.65	26.82	124.0	.764	
160	9.34	34.006	2.97	-	-	-	172.5	500	6.39	34.295	.54	26.97	109.8	.888	
190	9.18	34.102	2.59	-	-	-	162.9								
216	9.72	34.319	1.38	-	-	-	155.3								
259	9.59	34.421	.77	-	-	-	145.7								
306	9.13	34.408	.96	-	-	-	139.5								
382	7.73	34.301	.66	-	-	-	127.0								
461	6.74	34.286	.59	-	-	-	114.9								
545	6.10	34.319	.46	-	-	-	104.4								

103.40							CALCOFI CRUISE 6612							103.40
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0958 GMT, 30 46N 117 04.5W, SOUNDING 960 FM, WIND 240 FORCE 4, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 18.														
1	17.12	33.570	5.65	-	-	-	352.9	0	17.12	33.570	5.65	24.41	352.9	0
11	17.12	33.566	5.64	-	-	-	353.2	10	17.13	33.567	5.64	24.41	353.2	.035
34	16.67	33.526	5.70	-	-	-	346.0	20	16.99	33.554	5.66	24.43	351.1	.071
43	14.44	33.435	5.69	-	-	-	305.5	30	16.78	33.544	5.69	24.47	347.1	.106
57	11.97	33.461	4.77	-	-	-	256.6	50	13.01	33.432	5.27	25.20	277.9	.168
71	11.34	33.537	4.33	-	-	-	239.9	75	11.20	33.561	4.23	25.64	235.8	.233
95	10.58	33.692	3.79	-	-	-	215.6	100	10.41	33.733	3.66	25.91	209.7	.289
114	9.96	33.839	3.34	-	-	-	194.6	125	9.70	33.885	3.20	26.15	187.0	.339
132	9.55	33.907	3.14	-	-	-	183.1	150	9.19	33.982	2.97	26.31	172.0	.385
161	9.02	34.020	2.87	-	-	-	166.6	200	8.67	34.065	2.56	26.46	158.0	.469
189	8.82	34.051	2.62	-	-	-	161.3	250	7.82	34.080	2.34	26.60	144.6	.547
226	8.24	34.087	2.46	-	-	-	150.1	300	7.63	34.179	1.47	26.70	134.7	.619
255	7.74	34.080	2.30	-	-	-	143.6	400	6.66	34.233	.81	26.88	117.8	.750
302	7.62	34.184	1.43	-	-	-	134.2	500	6.16	34.308	.44	27.01	105.9	.868
364	6.88	34.202	1.02	-	-	-	123.0	600	5.63	34.358	.36	27.11	96.0	.977
460	6.40	34.289	.53	-	-	-	110.4							
548	5.89	34.332	.37	-	-	-	100.9							
620	5.54	34.368	.35	-	-	-	94.1							

103.50							CALCOFI CRUISE 6612							103.50
ALEXANDER AGASSIZ, DECEMBER 6 1966, 1551 GMT, 30 27.5N 117 44W, SOUNDING 1506 FM, WIND 220 FORCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 25.														
0	17.11	33.489	5.72	-	-	-	358.6	0	17.11	33.489	5.72	24.35	358.6	0
9	17.09	33.489	5.72	-	-	-	358.1	10	17.09	33.491	5.72	24.36	357.9	.036
28	17.02	33.528	5.71	-	-	-	353.7	20	17.05	33.514	5.71	24.38	355.5	.072
36	16.88	33.519	5.73	-	-	-	351.2	30	16.99	33.526	5.71	24.41	353.1	.107
51	13.98	33.249	5.93	-	-	-	310.0	50	14.20	33.268	5.92	24.83	313.0	.174
63	12.94	33.219	5.76	-	-	-	292.2	75	12.18	33.226	5.55	25.20	277.6	.248
85	11.66	33.245	5.30	-	-	-	267.1	100	10.93	33.439	4.66	25.59	240.1	.313
102	10.85	33.470	4.57	-	-	-	236.5	125	10.48	33.762	3.63	25.92	208.9	.370
120	10.56	33.703	3.88	-	-	-	214.5	150	9.96	33.923	3.04	26.14	188.5	.420
136	10.30	33.868	3.14	-	-	-	198.0	200	9.25	34.056	2.60	26.36	167.4	.511
162	9.68	33.943	2.96	-	-	-	182.5	250	8.83	34.141	2.25	26.49	154.8	.594
193	9.32	34.040	2.67	-	-	-	169.7	300	8.00	34.155	1.77	26.63	141.7	.670
219	9.08	34.094	2.42	-	-	-	162.0	400	6.86	34.232	.85	26.85	120.5	.807
263	8.70	34.153	2.18	-	-	-	151.9	500	6.01	34.280	.46	27.00	106.3	.927
312	7.76	34.155	1.63	-	-	-	138.3	600	5.28	34.307	.37	27.11	95.8	1.035
389	6.96	34.225	.92	-	-	-	122.3							
468	6.27	34.267	.54	-	-	-	110.4							
549	5.64	34.296	.43	-	-	-	100.7							

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
							CALCOFI CRUISE 6612								103.60	
ALEXANDER AGASSIZ, DECEMBER 6 1966, 2159 GMT, 30 05N 118 23.5W, SOUNDING 1836 FM, WIND 220 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 32.																
2	17.97	33.507	5.59	-	-	-	376.9	0	17.97	33.507	5.59	24.16	376.9	0		
10	17.94	33.505	5.53	-	-	-	376.4	10	17.94	33.505	5.53	24.16	376.4	.038		
27	17.76	33.471	5.50	-	-	-	374.7	20	17.85	33.486	5.51	24.17	375.6	.075		
53	17.30	33.460	5.63	-	-	-	365.0	30	17.72	33.469	5.51	24.19	373.9	.113		
62	15.94	33.336	5.91	-	-	-	344.0	50	17.49	33.461	5.58	24.24	369.2	.187		
75	14.62	33.364	5.89	-	-	-	314.4	75	14.62	33.364	5.89	24.81	314.4	.273		
87	13.68	33.347	6.16	-	-	-	246.9	100	12.68	33.405	5.30	25.24	273.8	.347		
99	12.77	33.400	5.36	-	-	-	275.7	125	11.22	33.556	4.27	25.63	236.4	.412		
119	11.37	-	4.45	-	-	-	-	150	10.77	33.767	3.38	25.68	213.3	.469		
134	11.09	33.624	4.02	-	-	-	229.2	200	9.76	34.041	2.75	26.26	176.5	.568		
156	10.63	33.818	3.17	-	-	-	207.1	250	9.43	34.225	1.82	26.46	157.6	.654		
177	9.96	33.938	3.05	-	-	-	187.3	300	8.84	34.244	1.55	26.57	147.3	.733		
200	9.76	34.041	2.75	-	-	-	176.5	400	7.09	34.192	1.14	26.79	126.5	.876		
236	9.54	34.202	1.95	-	-	-	161.1	500	6.56	34.307	.49	26.95	111.0	1.001		
279	9.13	34.239	1.67	-	-	-	152.0									
348	8.08	34.246	1.31	-	-	-	136.0									
421	6.83	34.192	1.04	-	-	-	123.1									
500	6.56	34.307	.49	-	-	-	111.0									

103.70														CALCOFI CRUISE 6612														103.70															
ALEXANDER AGASSIZ, DECEMBER 7 1966, 0458 GMT, 29 44.5N 119 05.5W, SOUNDING 1900 FM, WIND 240 FORCE 4, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 22.																																											
2	18.42	33.631	5.44	-	-	-	378.4	0	18.42	33.631	5.44	24.14	378.4	0																													
11	18.40	33.633	5.46	-	-	-	377.8	10	18.40	33.633	5.46	24.15	377.8	.038																													
20	18.40K	33.63 G	-	-	-	-	378.0	20	18.40	33.630	5.48	24.15	378.0	.076																													
30	18.40K	33.63 G	-	-	-	-	378.0	30	18.40	33.630	5.49	24.15	378.0	.114																													
34	17.98	33.567	5.52	-	-	-	372.8	50	16.84	33.499	5.58	24.42	351.8	.187																													
43	17.48	33.506	5.70	-	-	-	365.7	75	14.72	33.455	5.58	24.86	309.7	.270																													
57	16.14	33.491	5.44	-	-	-	337.0	100	13.35	33.526	4.81	25.20	277.5	.344																													
71	14.98	33.456	5.63	-	-	-	315.0	125	12.19	33.667	4.16	25.54	245.5	.410																													
94	13.66	33.496	5.06	-	-	-	285.6	150	10.86	33.756	3.74	25.85	215.5	.468																													
113	12.73	33.602	4.31	-	-	-	260.1	200	9.42	33.967	3.10	26.26	176.7	.568																													
131	11.92	33.697	4.12	-	-	-	238.4	250	8.58	34.099	2.35	26.50	154.1	.653																													
158	10.44	33.778	3.58	-	-	-	206.9	300	7.72	34.135	1.82	26.66	139.2	.729																													
184	9.72	33.887	3.33	-	-	-	187.3	400	6.75	34.199	.99	26.84	121.5	.864																													
220	9.11	34.052	2.79	-	-	-	165.6	500	6.05	34.295	.44	27.01	105.6	.984																													
247	8.64	34.096	2.39	-	-	-	155.3	600	5.62	34.348	.33	27.11	96.6	1.092																													
292	7.82	34.132	1.89	-	-	-	140.8																																				
352	7.19	34.149	1.43	-	-	-	131.0																																				
444	6.40	34.252	.64	-	-	-	113.1																																				
529	5.90	34.314	.38	-	-	-	102.4																																				
600	5.62	34.348	.33	-	-	-	96.6																																				

103.80														CALCOFI CRUISE 6612														103.80			
ALEXANDER AGASSIZ, DECEMBER 7 1966, 1200 GMT, 29 23N 119 44.5W, SOUNDING 1900 FM, WIND 330 FORCE 5, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 23.																															
0	18.03	33.482	5.52	-	-	-	380.1	0	18.03	33.482	5.52	24.12	380.1	0																	
9	18.03	33.481	5.51	-	-	-	380.2	10	18.03	33.481	5.51	24.12	380.2	.038																	
				-	-	-		20	18.04	33.483	5.51	24.12	380.3	.076																	
20	18.04K	-	-	-	-	-	-	30	18.04	33.487	5.52	24.13	380.0	.114																	
30	18.04K	-	-	-	-	-	-	50	17.79	33.596	5.76	24.27	366.1	.189																	
33	18.05	33.488	5.52	-	-	-	380.2	75	15.96	33.671	5.89	24.75	320.0	.275																	
61	17.16	33.657	5.91	-	-	-	347.4	100	14.62	33.682	5.69	25.06	291.2	.352																	
70	16.27	33.654	5.94	-	-	-	327.9	125	13.23	33.667	5.27	25.34	264.7	.423																	
89	15.29	33.711	5.72	-	-	-	302.8	150	11.90	33.693	4.91	25.61	238.4	.486																	
102	14.50	33.675	5.68	-	-	-	289.2	200	9.86	33.882	4.33	26.12	189.9	.595																	
116	13.69	33.668	5.40	-	-	-	273.6	250	8.74	34.033	4.13	26.42	161.4	.685																	
144	12.26	33.670	5.02	-	-	-	246.5	300	7.77	34.021	2.92	26.56	148.3	.765																	
162	11.22	33.745	4.70	-	-	-	222.5	400	6.50	34.106	1.48	26.80	125.3	.907																	
189	10.18	33.828	4.31	-	-	-	199.0	500	5.95	34.226	.65	26.97	109.6	1.031																	
221	9.36	33.978	4.41	-	-	-	174.9	600	5.39	34.311	.42	27.11	96.6	1.141																	
249	8.76	34.033	4.15	-	-	-	161.7																								
294	7.88	34.020	3.03	-	-	-	150.0																								
355	6.89	34.052	2.09	-	-	-	134.3																								
449	6.24	34.173	.96	-	-	-	117.1																								
534	5.76	34.258	.51	-	-	-	104.9																								
605	5.36	34.315	.41	-	-	-	96.1																								

INPUT

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC	
107.32							CALCOFI CRUISE 6612							107.32	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 0003 GMT, 30 26N 116 10.5W, SOUNDING 220 FM, WIND 320 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 27.															
0	15.68	33.443	5.89	-	-	-	330.6	0	15.68	33.443	5.89	24.64	330.6	0	
9	15.70	33.440	5.88	-	-	-	331.3	10	15.70	33.439	5.87	24.64	331.3	.033	
10	15.70K	-	-	-	-	-	-	20	15.53	33.430	5.76	24.67	328.4	.066	
20	15.53K	33.43 G	-	-	-	-	328.4	30	13.30	33.430	5.40	25.14	283.5	.097	
26	14.04	33.361	5.59	-	-	-	303.0	50	11.89	33.585	3.84	25.53	246.2	.150	
30	13.30K	33.43 G	-	-	-	-	283.5	75	11.18	33.718	3.64	25.77	223.8	.209	
39	12.61	33.462	4.81	-	-	-	268.2	100	10.42	33.907	3.14	26.05	197.2	.262	
48	11.90	33.570	3.97	-	-	-	247.4	125	10.18	33.990	2.76	26.15	187.0	.311	
61	11.86	33.643	3.47	-	-	-	241.3	150	10.06	34.109	2.38	26.27	176.3	.357	
73	11.27	33.701	3.64	-	-	-	226.6	200	9.86	34.258	1.57	26.42	161.9	.443	
85	10.78	33.806	3.57	-	-	-	210.5	250	9.32	34.296	1.31	26.54	150.7	.524	
106	10.34	33.936	2.95	-	-	-	193.6								
122	10.20	33.977	2.79	-	-	-	188.3								
146	10.08	34.091	2.47	-	-	-	177.9								
168	9.99	34.182	1.99	-	-	-	169.7								
193	9.96	34.252	1.61	-	-	-	164.1								
234	9.45	34.285	1.39	-	-	-	153.5								
272	9.20	34.309	1.22	-	-	-	147.9								

107.35

CALCOFI CRUISE 6612

107.35

ALEXANDER AGASSIZ, DECEMBER 8 1966, 2107 GMT, 30 21.5N 116 22.5W, SOUNDING 920 FM, WIND 330 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 25.

1	16.26	33.484	5.80	-	-	-	340.1	0	16.26	33.484	5.80	24.54	340.1	0	
10	16.24	33.482	5.84	-	-	-	339.8	10	16.24	33.482	5.84	24.55	339.8	.034	
33	16.10	33.473	5.84	-	-	-	337.4	20	16.19	33.478	5.86	24.56	338.9	.068	
60	12.65	33.289	5.54	-	-	-	281.7	30	16.12	33.478	5.85	24.57	337.5	.102	
70	12.56	33.348	5.22	-	-	-	275.7	50	13.86	33.339	5.72	24.95	301.1	.166	
75	12.52K	33.37 G	-	-	-	-	273.3	75	12.52	33.370	5.04	25.25	273.3	.238	
87	11.32	33.487	4.58	-	-	-	243.3	100	10.80	33.634	4.12	25.77	223.6	.301	
100	10.80	33.634	4.12	-	-	-	223.6	125	10.51	33.869	3.08	26.00	201.4	.355	
113	10.56	33.740	3.60	-	-	-	211.7	150	10.49	34.072	2.30	26.16	186.0	.404	
138	10.48	34.000	2.59	-	-	-	191.2	200	9.88	34.217	1.86	26.38	165.5	.493	
154	10.49	34.092	2.23	-	-	-	184.6	250	8.63	34.206	1.73	26.58	146.9	.574	
179	10.21	34.205	1.89	-	-	-	171.6	300	8.11	34.255	1.22	26.69	135.8	.647	
208	9.71	34.217	1.89	-	-	-	162.7	400	7.07	34.254	.90	26.84	121.6	.781	
232	8.90	34.183	1.96	-	-	-	152.7	500	6.13	34.304	.46	27.01	106.0	.902	
273	8.44	34.249	1.37	-	-	-	141.0								
329	7.77	34.248	1.15	-	-	-	131.5								
417	6.92	34.258	.84	-	-	-	119.3								
502	6.12	34.305	.45	-	-	-	105.7								
575	5.92	34.345	.39	-	-	-	100.3								

107.40

CALCOFI CRUISE 6612

107.40

ALEXANDER AGASSIZ, DECEMBER 8 1966, 1733 GMT, 30 07N 116 39W, SOUNDING 1120 FM, WIND 320 FORCE 6, WEATHER PARTLY CLOUDY, SEA HIGH, WIRE ANGLE 37.

2	17.23	33.465	5.58	-	-	-	363.0	0	17.23	33.465	5.58	24.30	363.0	0	
10	17.24	33.463	5.57	-	-	-	363.4	10	17.24	33.463	5.57	24.30	363.4	.036	
30	17.23	33.460	5.62	-	-	-	363.4	20	17.24	33.461	5.59	24.30	363.5	.073	
54	15.29	33.338	5.99	-	-	-	330.1	30	17.23	33.460	5.62	24.30	363.4	.109	
62	14.30	33.271	5.92	-	-	-	314.8	50	15.74	33.367	5.95	24.57	337.5	.179	
77	13.32	33.323	5.19	-	-	-	291.8	75	13.43	33.306	5.29	25.02	295.0	.259	
89	12.34	33.438	5.08	-	-	-	265.0	100	11.99	33.500	4.89	25.45	254.0	.328	
101	11.96	33.505	4.87	-	-	-	253.2	125	10.48	33.667	4.28	25.85	215.8	.387	
124	10.52	33.663	4.30	-	-	-	216.8	150	9.55	33.800	3.74	26.11	191.1	.439	
138	10.01	33.719	4.01	-	-	-	204.3	200	9.06	34.091	2.66	26.42	161.9	.529	
159	9.27	33.868	3.54	-	-	-	181.7	250	9.16	34.272	1.41	26.54	150.1	.609	
183	9.06	34.029	3.00	-	-	-	166.5	300	8.57	34.276	1.12	26.64	140.9	.684	
205	9.07	34.106	2.55	-	-	-	161.0	400	7.11	34.255	.81	26.84	122.0	.822	
241	9.20	34.257	1.53	-	-	-	151.7	500	6.39	34.316	.39	26.98	108.3	.943	
291	8.76	34.286	1.15	-	-	-	142.9								
370	7.16	34.205	1.06	-	-	-	126.4								
445	6.89	34.304	.54	-	-	-	115.5								
509	6.29	34.318	.38	-	-	-	106.8								

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
107.50								CALCOFI CRUISE 6612								107.50	
ALEXANDER AGASSIZ, DECEMBER 8 1966, 1107 GMT, 29 51N 117 22W, SOUNDING 1290 FM, WIND 310 FORCE 5, WEATHER MISSING, SEA HIGH, WIRE ANGLE 35.																	
1	17.63	33.511	5.48	-	-	-	368.8	0	17.63	33.511	5.48	24.24	368.8	0			
9	17.64	33.507	5.42	-	-	-	369.3	10	17.64	33.508	5.41	24.24	369.2	.037			
20	17.64K	-	-	-	-	-	-	20	17.64	33.512	5.38	24.24	368.9	.074			
27	17.65	33.510	5.38	-	-	-	369.3	30	17.62	33.498	5.42	24.24	369.5	.111			
30	17.62K	-	-	-	-	-	-	50	15.86	33.410	5.75	24.58	336.9	.182			
48	16.15	33.415	5.72	-	-	-	342.8	75	13.35	33.320	5.56	25.04	292.5	.261			
55	15.14	33.396	5.82	-	-	-	322.7	100	12.16	33.384	5.10	25.33	265.7	.331			
69	13.86	33.317	5.69	-	-	-	302.7	125	11.19	33.565	4.25	25.65	235.2	.394			
80	12.99	33.331	5.46	-	-	-	284.9	150	10.49	33.817	3.26	25.96	204.9	.450			
90	12.62	33.344	5.35	-	-	-	277.1	200	9.58	34.005	2.80	26.27	176.4	.547			
111	11.66	33.452	4.74	-	-	-	251.8	250	9.06	34.175	2.02	26.48	155.7	.632			
124	11.22	33.553	4.31	-	-	-	236.7	300	8.32	34.199	1.51	26.62	142.9	.710			
144	10.64	33.784	3.29	-	-	-	209.8	400	7.04	34.228	.92	26.83	123.2	.848			
166	10.13	33.869	3.17	-	-	-	195.1	500	6.38	34.312	.44	26.98	108.5	.971			
187	9.70	33.933	2.98	-	-	-	183.5										
219	9.46	34.109	2.50	-	-	-	166.7										
265	8.84	34.187	1.81	-	-	-	151.5										
342	7.72	34.213	1.26	-	-	-	133.4										
420	6.86	34.239	.81	-	-	-	119.9										
490	6.42	34.300	.48	-	-	-	109.8										

107.60							CALCOFI CRUISE 6612							107.60						
ALEXANDER AGASSIZ, DECEMBER 8 1966, 0432 GMT, 29 31N 118 02W, SOUNDING 1930 FM, WIND 330 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 23.																				
1	18.31	33.654	5.43	-	-	-	374.2	0	18.31	33.654	5.43	24.19	374.2	0						
10	18.32	33.653	5.49	-	-	-	374.5	10	18.32	33.653	5.49	24.18	374.5	.037						
20	18.33K	-	-	-	-	-	-	20	18.33	33.652	5.52	24.18	374.7	.075						
30	18.34K	-	-	-	-	-	-	30	18.34	33.652	5.52	24.18	375.0	.113						
34	18.35	33.652	5.53	-	-	-	375.2	50	18.20	33.640	5.57	24.20	372.6	.188						
50	18.20K	33.64 G	-	-	-	-	372.6	75	15.34	33.435	5.70	24.71	324.1	.275						
61	17.81	33.590	5.60	-	-	-	367.2	100	13.46	33.533	4.90	25.18	279.1	.351						
70	15.97	33.452	5.73	-	-	-	336.2	125	11.26	33.635	4.08	25.69	231.3	.416						
90	14.14	33.469	5.34	-	-	-	297.1	150	10.85	33.941	2.82	26.00	201.7	.470						
103	13.24	33.550	4.77	-	-	-	273.6	200	9.59	34.044	2.81	26.29	173.6	.566						
117	11.61	33.538	4.59	-	-	-	244.6	250	8.93	34.181	1.93	26.51	153.4	.650						
145	10.98	33.914	2.83	-	-	-	205.9	300	8.08	34.194	1.63	26.65	139.9	.726						
164	10.47	33.983	2.81	-	-	-	192.3	400	7.20	34.280	.76	26.84	121.4	.862						
191	9.76	34.024	2.87	-	-	-	177.7	500	6.41	34.335	.46	27.00	107.0	.983						
225	9.22	34.109	2.48	-	-	-	163.0	600	5.83	34.377	.37	27.10	96.8	1.092						
253	8.90	34.188	1.87	-	-	-	152.3													
300	8.08	34.194	1.63	-	-	-	139.9													
361	7.54	34.253	.96	-	-	-	128.0													
457	6.74	34.311	.61	-	-	-	113.0													
541	6.14	34.355	.38	-	-	-	102.2													
616	5.76	34.382	.39	-	-	-	95.7													

107.70				CALCOFI CRUISE 6612												107.70			
ALEXANDER AGASSIZ, DECEMBER 7 1966, 2222 GMT, 29 11.5N 118 41W, SOUNDING 1960 FM, WIND 340 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 20.																			
1	18.34	33.649	5.48	-	-	-	375.2	0	18.34	33.649	5.48	24.18	375.2	0					
10	18.34	33.647	5.49	-	-	-	375.4	10	18.34	33.647	5.49	24.17	375.4	.038					
20	18.35K	-	-	-	-	-	-	20	18.35	33.646	5.47	24.17	375.7	.075					
30	18.35K	-	-	-	-	-	-	30	18.35	33.645	5.47	24.17	375.7	.113					
33	18.36	33.645	5.47	-	-	-	376.0	50	17.00	33.490	5.73	24.38	356.0	.186					
50	17.00K	33.49 G	-	-	-	-	356.0	75	13.51	33.397	5.45	25.07	289.9	.267					
61	15.08	33.359	5.85	-	-	-	324.2	100	11.93	33.652	4.21	25.58	242.0	.334					
70	13.92	33.349	5.76	-	-	-	301.5	125	11.19	33.818	3.59	25.84	216.6	.392					
89	12.66	33.574	4.49	-	-	-	260.9	150	10.25	33.923	3.28	26.09	193.2	.444					
104	11.72	33.676	4.14	-	-	-	236.3	200	9.34	34.062	2.71	26.35	168.3	.537					
118	11.46	33.779	3.73	-	-	-	224.2	250	8.45	34.125	2.38	26.54	150.3	.618					
146	10.35	33.908	3.31	-	-	-	195.9	300	7.74	34.131	1.85	26.65	139.8	.693					
165	9.97	33.973	3.15	-	-	-	184.9	400	6.49	34.152	1.12	26.84	121.7	.829					
193	9.52	34.056	2.72	-	-	-	171.6	500	6.14	34.295	.50	27.00	106.7	.950					
226	8.70	34.077	2.68	-	-	-	157.6	600	5.62	34.361	.30	27.12	95.6	1.058					
254	8.42	34.133	2.32	-	-	-	149.3												
300	7.74	34.131	1.85	-	-	-	139.8												
361	6.80	34.115	1.50	-	-	-	128.4												
456	6.24	34.231	.61	-	-	-	112.7												
542	5.97	34.336	.41	-	-	-	101.6												
614	5.52	34.362	.28	-	-	-	94.4												

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
107.80								CALCOFI CRUISE 6612								107.80	
ALEXANDER AGASSIZ, DECEMBER 7 1966, 1657 GMT, 28 53N 119 20.5W, SOUNDING 2325 FM, WIND 350 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 21.																	
2	18.48	33.609	5.50	-	-	-	381.4	0	18.48	33.609	5.50	24.11	381.4	0			
11	18.48	33.606	5.52	-	-	-	381.7	10	18.48	33.606	5.52	24.11	381.6	.038			
35	18.52	33.616	5.49	-	-	-	381.9	20	18.49	33.610	5.51	24.11	381.6	.076			
50	18.57K	33.61 G	-	-	-	-	383.5	30	18.51	33.614	5.50	24.11	381.7	.115			
63	18.60	33.697	5.52	-	-	-	377.9	50	18.57	33.610	5.50	24.09	383.5	.191			
73	16.56	33.484	6.04	-	-	-	346.7	75	16.40	33.492	6.06	24.52	342.7	.283			
91	15.92	33.668	5.96	-	-	-	319.3	100	15.42	33.665	5.91	24.87	308.8	.365			
105	15.10	33.651	5.87	-	-	-	303.2	125	13.74	33.634	5.44	25.21	277.0	.439			
119	14.17	33.632	5.65	-	-	-	285.7	150	12.03	33.683	4.59	25.58	241.4	.504			
146	12.28	33.662	4.67	-	-	-	247.4	200	9.82	33.923	3.76	26.16	186.2	.613			
164	11.24	33.768	4.36	-	-	-	221.2	250	8.81	34.043	3.14	26.42	161.8	.702			
190	10.12	33.891	3.83	-	-	-	193.4	300	8.36	34.216	1.55	26.63	142.2	.781			
222	9.32	33.979	3.63	-	-	-	174.2	400	7.43	34.303	.73	26.83	122.8	.919			
248	8.84	34.036	3.21	-	-	-	162.7	500	6.19	34.277	.52	26.98	108.7	1.042			
293	8.40	34.198	1.69	-	-	-	144.2	600	5.30	34.312		27.12	95.6	1.151			
352	8.02	34.300	.91	-	-	-	131.1										
445	6.82	34.282	.61	-	-	-	116.2										
531	5.88	34.282	.50	-	-	-	104.6										
605	5.26	34.315	.14U	-	-	-	94.9										
110.35								CALCOFI CRUISE 6612								110.35	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 0659 GMT, 29 46N 116 00W, SOUNDING 635 FM, WIND 320 FORCE 4, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 12.																	
1	15.18	33.439	5.81	-	-	-	320.4	0	15.18	33.439	5.81	24.75	320.4	0			
11	15.19	33.433	5.78	-	-	-	321.1	10	15.20	33.433	5.79	24.74	321.2	.032			
30	14.76	33.439	5.60	-	-	-	311.8	20	15.03	33.434	5.71	24.78	317.7	.064			
39	13.46	33.493	4.46	-	-	-	282.0	30	14.76	33.439	5.60	24.84	311.8	.096			
54	12.88	33.521	4.20	-	-	-	268.9	50	13.02	33.510	4.31	25.26	272.4	.154			
69	12.35	33.643	3.05	-	-	-	250.1	75	12.26	33.661	2.97	25.52	247.0	.220			
93	11.90	33.694	-	-	-	-	238.2	100	11.52	33.718	3.03	25.70	229.8	.280			
113	10.84	33.780	3.29	-	-	-	213.5	125	10.59	33.874	3.04	25.99	202.3	.334			
132	10.52	33.926	2.88	-	-	-	197.3	150	10.39	33.976	2.72	26.11	191.4	.384			
151	10.38	33.978	2.71	-	-	-	191.2	200	9.87	34.175	2.00	26.35	168.2	.476			
179	10.16	34.130	2.08	-	-	-	176.3	250	8.89	34.267	1.44	26.58	146.4	.557			
212	9.64	34.189	1.93	-	-	-	163.6	300	8.77	34.359	.77	26.67	137.6	.630			
241	8.90	34.242	1.60	-	-	-	148.3	400	7.35	34.313	.63	26.85	120.9	.766			
289	8.87	34.357	.82	-	-	-	139.3	500	6.23	34.330	.37	27.02	105.2	.885			
342	8.22	34.337	.72	-	-	-	131.2	600	5.77	34.367	.37	27.10	96.9	.994			
425	6.99	34.307	.59	-	-	-	116.6										
509	6.16	34.333	.36	-	-	-	104.1										
593	5.78	34.364	.36	-	-	-	97.2										
110.40								CALCOFI CRUISE 6612								110.40	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 1019 GMT, 29 36N 116 19.5W, SOUNDING 1145 FM, WIND 350 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 14.																	
0	15.89	33.454	5.81	-	-	-	334.3	0	15.89	33.454	5.81	24.60	334.3	0			
10	15.92	33.453	5.88	-	-	-	335.0	10	15.92	33.453	5.88	24.60	335.0	.033			
29	15.83	33.444	5.84	-	-	-	333.8	20	15.89	33.449	5.87	24.60	334.6	.067			
39	14.55	33.340	5.72	-	-	-	314.7	30	15.70	33.432	5.83	24.63	331.9	.100			
53	14.22	33.454	5.29	-	-	-	299.7	50	14.31	33.421	5.39	24.92	304.0	.164			
68	13.20	33.465	5.02	-	-	-	279.0	75	12.83	33.485	4.89	25.27	270.6	.236			
92	12.04	33.560	4.53	-	-	-	250.6	100	11.65	33.603	4.31	25.59	240.4	.301			
112	11.11	33.676	3.97	-	-	-	225.7	125	10.70	33.772	3.67	25.89	211.7	.358			
131	10.54	33.814	3.56	-	-	-	205.9	150	10.12	33.902	3.44	26.10	192.5	.409			
150	10.12	33.902	3.44	-	-	-	192.5	200	9.12	34.072	2.75	26.39	164.2	.500			
178	9.54	34.013	2.97	-	-	-	175.1	250	8.45	34.161	1.96	26.57	147.6	.580			
211	8.93	34.095	2.64	-	-	-	159.7	300	7.98	34.218	1.36	26.68	136.7	.654			
240	8.54	34.142	2.13	-	-	-	150.4	400	6.98	34.239	.89	26.84	121.5	.788			
287	8.13	34.217	1.44	-	-	-	138.9	500	6.26	34.325	.45	27.01	105.9	.909			
340	7.53	34.210	1.20	-	-	-	131.0	600	5.68	34.376	.31	27.12	95.3	1.016			
423	6.80	34.257	.77	-	-	-	117.8										
506	6.22	34.329	.43	-	-	-	105.2										
589	5.74	34.372	.32	-	-	-	96.2										

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
110.50								CALCOFI CRUISE 6612								110.50	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 1543 GMT, 29 16N 116 59W, SOUNDING 1710 FM, WIND 010 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 08.																	
0	17.26	33.467	5.61	-	-	-	363.5	0	17.26	33.467	5.61	24.30	363.5	0			
10	17.26	33.467	5.65	-	-	-	363.5	10	17.26	33.467	5.65	24.30	363.5	.036			
20	17.27K	-	-	-	-	-	-	20	17.27	33.466	5.65	24.29	363.8	.073			
30	17.28	33.465	5.65	-	-	-	364.1	30	17.28	33.465	5.65	24.29	364.1	.109			
60	16.31	33.422	5.82	-	-	-	345.7	50	16.87	33.436	5.73	24.37	357.0	.182			
70	15.38	33.418	5.98	-	-	-	326.1	75	14.92	33.384	5.97	24.77	319.0	.267			
85	13.99	33.321	5.87	-	-	-	304.9	100	12.60	33.366	5.41	25.23	275.0	.341			
101	12.52	33.375	5.36	-	-	-	272.9	125	11.96	33.758	3.44	25.65	234.5	.406			
116	12.10	33.608	3.98	-	-	-	248.1	150	11.68	33.969	2.36	25.87	214.0	.463			
141	11.78	33.961	2.74	-	-	-	216.4	200	10.88	34.145	1.78	26.15	187.2	.565			
161	11.54	33.985	2.00	-	-	-	210.4	250	10.09	34.341	1.41	26.44	159.7	.654			
191	11.04	34.110	1.79	-	-	-	192.5	300	9.32	34.401	.76	26.62	142.9	.733			
221	10.52	34.225	1.77	-	-	-	175.2	400	7.39	34.262	.93	26.80	125.2	.873			
251	10.08	34.344	1.39	-	-	-	159.2	500	6.28	34.264	.60	26.96	110.8	.997			
301	9.30	34.401	.75	-	-	-	142.6	600	5.64	34.336	.43	27.09	97.8	1.109			
356	8.13	34.287	1.00	-	-	-	133.7										
441	6.84	34.249	.77	-	-	-	118.9										
526	6.08	34.277	.54	-	-	-	107.3										
610	5.60	34.346	.42	-	-	-	96.5										

110.60				CALCOFI CRUISE 6612												110.60			
ALEXANDER AGASSIZ, DECEMBER 9 1966, 2121 GMT, 28 56.5N 117 38.5W, SOUNDING 1900 FM, WIND 350 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 04.																			
0	18.26	33.646	5.53	-	-	-	373.6	0	18.26	33.646	5.53	24.19	373.6	0					
10	18.06	33.641	5.50	-	-	-	369.3	10	18.06	33.641	5.50	24.24	369.3	.037					
30	18.02	33.634	5.47	-	-	-	368.8	20	18.04	33.637	5.47	24.24	369.0	.074					
39	18.02	33.634	5.50	-	-	-	368.8	30	18.02	33.634	5.47	24.24	368.8	.111					
54	16.32	33.486	5.55	-	-	-	341.3	50	16.89	33.528	5.54	24.43	350.8	.183					
69	14.36	33.469	5.52	-	-	-	301.4	75	13.71	33.511	5.13	25.12	285.5	.263					
94	12.08	33.673	3.80	-	-	-	243.0	100	11.64	33.697	3.70	25.67	233.3	.329					
114	11.00	33.743	3.56	-	-	-	218.9	125	11.10	33.920	3.13	25.94	207.6	.384					
125	11.10K	33.92 G	-	-	-	-	207.6	150	10.68	34.062	2.41	26.12	190.0	.435					
134	10.85	33.974	2.76	-	-	-	199.3	200	9.31	34.117	2.46	26.40	163.8	.525					
154	10.65	34.081	2.36	-	-	-	188.0	250	8.66	34.221	1.64	26.58	146.3	.605					
183	9.80	34.142	2.31	-	-	-	169.6	300	8.51	34.323	.90	26.69	136.4	.678					
221	8.84	34.100	2.48	-	-	-	157.9	400	7.40	34.307	.66	26.84	122.0	.813					
247	8.67	34.210	1.71	-	-	-	147.2	500	6.49	34.327	.42	26.98	108.7	.935					
297	8.54	34.323	.91	-	-	-	136.9	600	5.71	34.347	.33	27.09	97.7	1.046					
352	7.82	34.291	.86	-	-	-	129.0												
445	7.05	34.331	.47	-	-	-	115.6												
521	6.30	34.328	.40	-	-	-	106.2												
605	5.68	34.349	.33	-	-	-	97.2												

110.70				CALCOFI CRUISE 6612												110.70			
ALEXANDER AGASSIZ, DECEMBER 10 1966, 0246 GMT, 28 36N 118 18W, SOUNDING 1910 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 18.																			
0	18.33	33.687	5.63	-	-	-	372.2	0	18.33	33.687	5.63	24.21	372.2	0					
10	18.34	33.685	5.46	-	-	-	372.6	10	18.34	33.685	5.46	24.20	372.6	.037					
20	18.34K	33.68 G	-	-	-	-	373.0	20	18.34	33.680	5.45	24.20	373.0	.075					
30	18.34	33.686	5.45	-	-	-	372.5	30	18.34	33.686	5.45	24.20	372.5	.112					
58	15.77	33.480	5.56	-	-	-	329.8	50	16.80	33.543	5.58	24.46	347.8	.184					
67	14.50	33.465	5.35	-	-	-	304.6	75	14.09	33.478	5.24	25.01	295.4	.265					
81	13.92	33.497	5.14	-	-	-	290.6	100	12.70	33.579	4.51	25.37	261.3	.335					
95	12.94	33.553	4.65	-	-	-	267.7	125	11.31	33.692	4.02	25.72	228.1	.397					
108	12.35	33.621	4.32	-	-	-	251.7	150	10.29	33.838	3.43	26.02	200.0	.451					
131	10.96	33.718	3.92	-	-	-	220.1	200	9.26	34.079	2.65	26.38	165.8	.545					
148	10.34	33.824	3.48	-	-	-	201.9	250	8.46	34.125	2.28	26.54	150.5	.626					
175	9.74	33.991	2.94	-	-	-	179.9	300	7.84	34.169	1.60	26.67	138.3	.700					
201	9.24	34.081	2.64	-	-	-	165.4	400	6.91	34.267	.71	26.87	118.5	.834					
228	8.77	34.107	2.54	-	-	-	156.4	500	6.08	34.291	.48	27.00	106.3	.953					
273	8.18	34.143	1.94	-	-	-	145.1												
324	7.56	34.194	1.32	-	-	-	132.6												
402	6.90	34.269	.70	-	-	-	118.2												
481	6.20	34.283	.51	-	-	-	108.4												
562	5.81	34.327	.43	-	-	-	100.4												

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
110.80								110.80							
CALCOFI CRUISE 6612															
ALEXANDER AGASSIZ, DECEMBER 10 1966, 0737 GMT, 28 15N 118 55.5W, SOUNDING 2080 FM, WIND 010 FORCE 3, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 07.															
1	17.96	33.469	5.59	-	-	-	379.4	0	17.96	33.469	5.59	24.13	379.4	0	
11	17.97	33.469	5.55	-	-	-	379.7	10	17.97	33.469	5.55	24.13	379.6	.038	
31	18.04	33.468	5.59	-	-	-	381.4	20	18.04	33.466	5.56	24.11	381.5	.076	
60	17.02	33.553	6.06	-	-	-	351.9	30	18.04	33.467	5.58	24.11	381.5	.114	
70	16.22	33.564	6.00	-	-	-	333.4	50	17.56	33.522	5.92	24.27	366.2	.189	
84	15.48	33.634	5.98	-	-	-	312.4	75	15.93	33.590	5.99	24.70	325.3	.276	
99	14.66	33.616	5.83	-	-	-	296.7	100	14.58	33.611	5.82	25.01	295.5	.354	
115	13.32	33.549	5.54	-	-	-	275.2	125	12.46	33.559	5.29	25.40	258.4	.424	
139	11.46	33.626	4.87	-	-	-	235.5	150	11.04	33.723	4.44	25.79	221.1	.485	
158	10.81	33.794	4.16	-	-	-	211.9	200	9.44	33.931	3.73	26.23	179.7	.587	
188	9.70	33.886	3.88	-	-	-	187.0	250	9.19	34.189	1.97	26.47	156.6	.673	
218	9.22	34.010	3.34	-	-	-	170.4	300	8.81	34.295	1.15	26.62	143.0	.751	
247	9.20	34.178	2.05	-	-	-	157.6	400	7.49	34.316	.62	26.83	122.6	.890	
296	8.85	34.291	1.19	-	-	-	143.9	500	6.37	34.316	.43	26.99	108.0	1.012	
350	8.20	34.320	.85	-	-	-	132.2	600	5.72	34.361	.39	27.11	96.7	1.122	
435	7.01	34.308	.51	-	-	-	116.8								
519	6.22	34.322	.41	-	-	-	105.7								
604	5.70	34.364	.39	-	-	-	96.3								
113.30								113.30							
CALCOFI CRUISE 6612															
ALEXANDER AGASSIZ, DECEMBER 11 1966, 1700 GMT, 29 22N 115 18W, SOUNDING 30 FM, WIND 020 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.															
0	14.84	33.451	5.64	-	-	-	312.5	0	14.84	33.451	5.64	24.83	312.5	0	
10	14.80	33.452	5.59	-	-	-	311.6	10	14.80	33.452	5.59	24.84	311.6	.031	
20	14.76	33.447	5.55	-	-	-	311.2	20	14.76	33.447	5.55	24.85	311.2	.062	
30	14.66	33.442	5.51	-	-	-	309.5	30	14.66	33.442	5.51	24.87	309.5	.094	
50	13.12	33.512	4.32	-	-	-	274.1	50	13.12	33.512	4.32	25.24	274.1	.152	
113.35								113.35							
CALCOFI CRUISE 6612															
ALEXANDER AGASSIZ, DECEMBER 11 1966, 1408 GMT, 29 11.5N 115 37.5W, SOUNDING 685 FM, WIND 100 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 11.															
0	15.82	33.467	5.80	-	-	-	331.9	0	15.82	33.467	5.80	24.63	331.9	0	
10	15.80	33.467	5.82	-	-	-	331.4	10	15.80	33.467	5.82	24.63	331.4	.033	
20	15.80K	-	-	-	-	-	-	20	15.80	33.469	5.84	24.64	331.3	.066	
30	15.80	33.467	5.82	-	-	-	331.4	30	15.80	33.467	5.82	24.63	331.4	.100	
60	13.30	33.411	5.26	-	-	-	284.9	50	14.31	33.417	5.52	24.92	304.2	.163	
70	12.59	33.456	4.94	-	-	-	268.3	75	12.19	33.492	4.76	25.40	258.3	.234	
84	11.56	33.584	4.34	-	-	-	240.3	100	11.13	33.820	3.20	25.85	215.4	.294	
99	11.17	33.827	3.24	-	-	-	215.6	125	10.62	33.918	3.07	26.02	199.6	.346	
100	11.13K	33.82 G	-	-	-	-	215.4	150	9.77	33.965	3.33	26.20	182.3	.395	
114	11.00	33.898	2.92	-	-	-	207.5	200	9.23	34.148	2.35	26.43	160.3	.482	
138	10.10	33.930	3.33	-	-	-	190.1	250	8.32	34.150	2.00	26.58	146.5	.561	
157	9.62	33.990	3.27	-	-	-	178.1	300	7.97	34.223	1.41	26.69	136.1	.634	
187	9.36	34.117	2.53	-	-	-	164.6	400	7.33	34.322	.64	26.86	119.9	.768	
216	9.02	34.167	2.21	-	-	-	155.7	500	6.39	34.339	.47	27.00	106.5	.888	
245	8.38	34.147	2.05	-	-	-	147.7	600	5.68	34.383	.38	27.13	94.7	.996	
294	7.99	34.210	1.50	-	-	-	137.4								
348	7.82	34.321	.76	-	-	-	126.8								
431	6.98	34.322	.58	-	-	-	115.3								
514	6.28	34.344	1.11U	-	-	-	104.8								
597	5.70	34.381	.38	-	-	-	95.0								
113.40								113.40							
CALCOFI CRUISE 6612															
ALEXANDER AGASSIZ, DECEMBER 11 1966, 1119 GMT, 29 00.5N 115 56W, SOUNDING 945 FM, WIND 360 FORCE 3, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 06.															
0	16.10	33.475	4.75	-	-	-	337.3	0	16.10	33.475	4.75	24.57	337.3	0	
10	16.08	33.474	4.78	-	-	-	336.9	10	16.08	33.474	4.78	24.58	336.9	.034	
30	15.52	33.435	4.87	-	-	-	327.8	20	15.96	33.460	4.82	24.59	335.4	.067	
39	14.66	33.407	5.64	-	-	-	312.1	30	15.52	33.435	4.87	24.67	327.8	.101	
54	13.67	33.437	5.21	-	-	-	290.2	50	13.90	33.428	5.41	25.01	295.3	.163	
69	12.78	33.384	5.13	-	-	-	277.1	75	12.44	33.417	4.92	25.30	268.3	.234	
95	11.45	33.611	4.02	-	-	-	236.4	100	11.24	33.658	3.86	25.71	229.3	.297	
115	10.77	33.803	3.36	-	-	-	210.6	125	10.66	33.912	2.89	26.01	200.7	.351	
135	10.59	34.003	2.49	-	-	-	192.8	150	10.40	34.053	2.40	26.17	185.9	.400	
155	10.30	34.058	2.39	-	-	-	183.9	200	8.87	34.094	2.57	26.45	158.8	.488	
184	9.18	34.062	2.71	-	-	-	165.9	250	8.61	34.221	1.70	26.59	145.6	.566	
218	8.70	34.142	2.27	-	-	-	152.7	300	7.77	34.223	1.27	26.72	133.4	.638	
248	8.64	34.219	1.72	-	-	-	146.1	400	6.96	34.266	.70	26.87	119.2	.770	
297	7.81	34.223	1.29	-	-	-	133.9	500	6.07	34.309	.51	27.02	104.8	.889	
352	7.28	34.232	.99	-	-	-	126.0	600	5.59	34.353	.38	27.11	95.8	.996	
436	6.72	34.294	.53	-	-	-	114.0								
521	5.91	34.316	.49	-	-	-	102.4								
605	5.58	34.356	.37	-	-	-	95.5								

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD			
113.50								CALCOFI CRUISE 6612								113.50	
ALEXANDER AGASSIZ, DECEMBER 11 1966, 0527 GMT, 28 41.5N 116 37W, SOUNDING 1860 FM, WIND 340 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 27.																	
0	17.22	33.459	5.63	-	-	-	363.2	0	17.22	33.459	5.63	24.30	363.2	0			
9	17.22	33.459	5.64	-	-	-	363.2	10	17.22	33.459	5.64	24.30	363.2	.036			
44	17.18	33.458	5.65	-	-	-	362.4	20	17.21	33.459	5.65	24.30	363.0	.073			
76	16.40	33.446	5.75	-	-	-	345.9	30	17.20	33.459	5.65	24.31	362.8	.109			
94	14.13	33.392	5.79	-	-	-	302.5	50	17.07	33.456	5.67	24.33	360.1	.182			
107	13.02	33.375	5.56	-	-	-	282.3	75	16.46	33.447	5.75	24.47	347.2	.270			
123	11.70	33.379	5.10	-	-	-	257.9	100	13.59	33.382	5.71	25.04	292.6	.351			
140	11.58	33.847	3.14	-	-	-	221.3	125	11.65	33.433	4.85	25.46	253.0	.420			
156	10.66	33.872	3.24	-	-	-	203.6	150	11.02	33.856	3.13	25.90	210.9	.479			
181	10.32	34.151	2.14	-	-	-	177.4	200	9.71	34.152	2.20	26.36	167.4	.575			
208	9.46	34.153	2.30	-	-	-	163.5	250	9.23	34.231	1.69	26.50	154.2	.658			
227	9.25	34.162	2.21	-	-	-	159.6	300	9.03	34.352	.90	26.63	142.0	.735			
258	9.22	34.260	1.48	-	-	-	151.8	400	7.88	34.352	.55	26.80	125.3	.875			
296	9.10	34.357	.91	-	-	-	142.8	500	7.05	34.384	.29	26.95	111.7	1.000			
344	8.14	34.275	.97	-	-	-	134.7										
420	7.78	34.392	.38	-	-	-	120.9										
503	7.02	34.383	.29	-	-	-	111.3										
573	6.20	34.359	.29	-	-	-	102.7										

113.60				CALCOFI CRUISE 6612												113.60			
ALEXANDER AGASSIZ, DECEMBER 10 1966, 2345 GMT, 28 22N 117 15.5W, SOUNDING 2318 FM, WIND 040 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 08.																			
0	17.80	33.631	5.61	-	-	-	363.9	0	17.80	33.631	5.61	24.29	363.9	0					
10	17.81	33.627	5.57	-	-	-	364.5	10	17.81	33.627	5.57	24.29	364.5	.036					
30	17.64	33.618	5.59	-	-	-	361.2	20	17.74	33.624	5.58	24.30	363.1	.073					
40	17.56	33.604	5.57	-	-	-	360.4	30	17.64	33.618	5.59	24.32	361.2	.109					
55	16.16	33.535	5.21	-	-	-	334.2	50	16.76	33.559	5.35	24.48	345.8	.180					
71	13.63	33.514	4.84	-	-	-	283.7	75	13.33	33.528	4.78	25.21	277.0	.258					
96	12.52	33.656	4.37	-	-	-	252.3	100	12.34	33.684	4.21	25.52	246.8	.324					
115	11.70	33.791	3.56	-	-	-	227.5	125	11.39	33.856	3.22	25.83	217.3	.383					
135	11.11	33.918	2.96	-	-	-	207.9	150	10.62	34.006	2.76	26.09	193.1	.435					
155	10.48	34.034	2.71	-	-	-	188.7	200	10.15	34.272	1.67	26.38	165.6	.527					
184	10.14	34.181	2.09	-	-	-	172.2	250	9.68	34.345	1.00	26.52	152.6	.609					
219	10.14	34.352	1.24	-	-	-	159.6	300	9.11	34.382	.96	26.64	141.1	.685					
248	9.70	34.344	1.01	-	-	-	153.1	400	7.83	34.370	.42	26.83	123.2	.823					
297	9.15	34.382	.98	-	-	-	141.7	500	6.67	34.345	.38	26.97	109.7	.947					
352	8.41	34.370	.58	-	-	-	131.5	600	5.88	34.376	.30	27.10	97.6	1.058					
436	7.42	34.370	.38	-	-	-	117.6												
521	6.47	34.344	.37	-	-	-	107.1												
604	5.86	34.379	.29	-	-	-	97.1												

113.70							CALCOFI CRUISE 6612							113.70						
ALEXANDER AGASSIZ, DECEMBER 10 1966, 1754 GMT, 28 03.5N 117 56W, SOUNDING 1632 FM, WIND 090 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 22.																				
0	19.00	33.739	5.41	-	-	-	384.4	0	19.00	33.739	5.41	24.08	384.4	0						
9	19.00	33.736	5.39	-	-	-	384.6	10	19.00	33.735	5.39	24.08	384.7	.038						
10	19.00K	-	-	-	-	-	-	20	19.01	33.730	5.39	24.07	385.3	.077						
20	19.01K	-	-	-	-	-	-	30	19.02	33.740	5.45	24.07	384.8	.116						
28	19.02	33.735	5.40	-	-	-	385.2	50	18.60	33.670	5.81	24.13	379.9	.192						
30	19.02K	33.74 G	-	-	-	-	384.8	75	13.71	33.437	5.50	25.06	291.0	.277						
50	18.60K	33.67 G	-	-	-	-	379.9	100	11.61	33.560	4.54	25.56	242.9	.344						
57	15.46	33.352	5.88	-	-	-	332.6	125	10.41	33.779	3.77	25.95	206.3	.401						
66	14.50	33.406	5.70	-	-	-	308.9	150	9.85	33.905	3.28	26.14	188.0	.451						
80	13.30	33.450	5.36	-	-	-	282.1	200	8.65	34.047	2.45	26.45	159.0	.539						
93	12.12	33.491	4.81	-	-	-	257.1	250	8.34	34.206	1.64	26.62	142.7	.617						
107	11.18	33.639	4.30	-	-	-	229.7	300	7.93	34.256	.99	26.72	133.1	.688						
129	10.29	33.803	3.67	-	-	-	202.6	400	7.03	34.288	.63	26.88	118.4	.819						
147	9.92	33.883	3.37	-	-	-	190.7	500	6.28	34.336	.40	27.01	105.3	.938						
173	9.28	34.044	2.63	-	-	-	168.8													
198	8.66	34.040	2.46	-	-	-	159.7													
224	8.57	34.149	2.21	-	-	-	150.3													
269	8.14	34.228	1.22	-	-	-	138.2													
316	7.82	34.265	.95	-	-	-	130.9													
393	7.08	34.285	.65	-	-	-	119.4													
472	6.48	34.322	.45	-	-	-	108.9													
553	5.90	34.362	.35	-	-	-	98.8													

							OUTPUT AT STANDARD LEVELS OF DEPTH								
INPUT							Z	T	S	OXY	SIG*T	D*T	DD		
Z	T	S	OXY	PHU	SIL	NIT	D*T								113.80
CALCOFI CRUISE 6612															
113.80															
ALEXANDER AGASSIZ, DECEMBER 10 1966, 1219 GMT, 27 40N 118 37.5W, SOUNDING 2080 FM, WIND 010 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 23.															
							376.3	0	17.92	33.499	5.60	24.16	376.3	0	
							376.2	10	17.90	33.495	5.56	24.17	376.2	.038	
								20	17.92	33.494	5.53	24.16	376.7	.075	
1	17.92	33.499	5.60	-	-	-		30	17.94	33.495	5.56	24.16	377.1	.113	
9	17.90	33.495	5.57	-	-	-		50	17.93	33.490	5.91	24.15	377.2	.189	
20	17.92K	-	-	-	-	-	377.1	75	14.17	33.355	5.99	24.90	306.0	.275	
28	17.94	33.495	5.53	-	-	-		100	12.39	33.414	5.45	25.30	267.8	.347	
30	17.94K	-	-	-	-	-	377.2	125	11.10	33.638	4.05	25.72	228.4	.410	
50	17.93K	33.49 G	-	-	-	-	353.4	150	10.22	33.784	3.87	25.99	202.8	.464	
55	16.80	33.465	6.00	-	-	-	324.3	200	8.85	33.959	3.77	26.35	168.5	.559	
64	15.21	33.394	6.05	-	-	-	303.5	250	8.06	34.034	2.85	26.53	151.5	.641	
77	14.04	33.354	5.96	-	-	-	282.2	300	7.51	34.107	1.89	26.67	138.4	.716	
90	13.14	33.406	5.69	-	-	-	263.7	400	6.98	34.269	.68	26.87	119.2	.850	
103	12.18	33.416	5.35	-	-	-	230.5	500	6.30	34.341	.34	27.01	105.3	.969	
123	11.16	33.623	4.11	-	-	-	214.6								
140	10.70	33.733	3.83	-	-	-	187.6								
164	9.54	33.844	3.98	-	-	-	172.2								
190	8.98	33.936	3.93	-	-	-	163.9								
215	8.68	33.987	3.47	-	-	-	149.2								
257	7.94	34.042	2.73	-	-	-	137.6								
304	7.48	34.113	1.81	-	-	-	122.8								
377	7.09	34.241	.82	-	-	-	111.5								
453	6.66	34.318	.44	-	-	-	101.7								
530	6.04	34.346	.32	-	-	-									

CALCOFI CRUISE 6612																
117.30																
ALEXANDER AGASSIZ, DECEMBER 12 1966, 0043 GMT, 28 48N 114 56.5W, SOUNDING 55 FM, WIND 340 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 10.																
							347.1			0	16.80	33.551	5.81	24.47	347.1	0
							346.2			10	16.74	33.545	5.81	24.48	346.2	.035
10	16.74	33.545	5.81	-	-	-	342.5			20	16.56	33.542	5.74	24.52	342.5	.069
20	16.56	33.542	5.74	-	-	-	337.8			30	16.30	33.527	5.60	24.57	337.8	.103
30	16.30	33.527	5.60	-	-	-	255.5			50	11.97	33.512	4.51	25.46	252.8	.163
49	12.10	33.508	4.56	-	-	-	222.8			75	11.33	33.792	3.14	25.79	221.1	.222
74	11.36	33.774	3.19	-	-	-										

CALCOFI CRUISE 6612																
117.35																
ALEXANDER AGASSIZ, DECEMBER 13 1966, 1039 GMT, 28 38N 115 16W, SOUNDING 104 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 20.																
							340.6			0	16.31	33.492	5.42	24.54	340.6	0
							341.9			10	16.34	33.482	5.36	24.53	341.9	.034
0	16.31	33.492	5.42	-	-	-	339.3			20	16.30	33.475	5.26	24.53	341.6	.068
9	16.34	33.483	5.37	-	-	-	333.1			30	16.12	33.459	5.31	24.56	338.8	.102
28	16.16	33.465	5.26	-	-	-	300.7			50	14.44	33.436	5.40	24.91	305.3	.167
38	15.78	33.439	5.50	-	-	-	293.7			75	12.70	33.415	4.75	25.24	273.4	.240
52	14.20	33.436	5.36	-	-	-	257.7			100	11.42	33.751	3.27	25.75	225.5	.303
68	13.52	33.349	5.00	-	-	-	226.0			125	11.10	33.852	3.22	25.88	212.6	.358
80	12.12	33.483	4.52	-	-	-	214.0			150	11.09	34.081	2.12	26.06	195.5	.410
99	11.44	33.750	3.25	-	-	-	199.6									
122	11.10	33.833	3.28	-	-	-										
145	11.09	34.025	2.42	-	-	-										

CALCOFI CRUISE 6612																
117.40																
ALEXANDER AGASSIZ, DECEMBER 13 1966, 1306 GMT, 28 28N 115 35.5W, SOUNDING 490 FM, WIND 340 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 10.																
							354.0			0	16.99	33.514	5.63	24.40	354.0	0
							354.1			10	17.02	33.522	5.66	24.40	354.1	.035
0	16.99	33.514	5.63	-	-	-	338.7			20	16.84	33.506	5.72	24.43	351.4	.071
10	17.02	33.522	5.66	-	-	-	314.1			30	16.02	33.470	5.77	24.59	335.9	.105
29	16.18	33.480	5.77	-	-	-	291.8			50	13.64	33.351	5.75	25.01	295.9	.169
38	14.70	33.390	5.79	-	-	-	267.0			75	12.62	33.596	4.36	25.40	258.5	.238
54	13.44	33.354	5.66	-	-	-	235.4			100	11.52	33.772	3.57	25.75	225.7	.299
69	12.88	33.547	4.62	-	-	-	210.1			125	10.61	33.874	3.27	25.99	202.6	.354
93	11.82	33.713	3.80	-	-	-	198.2			150	9.91	33.979	3.09	26.19	183.5	.402
113	11.00	33.862	3.26	-	-	-	182.0			200	9.10	34.286	1.36	26.56	165.6	.492
132	10.40	33.887	3.30	-	-	-	174.9			250	8.53	34.317	.90	26.68	148.0	.572
152	9.87	33.990	3.06	-	-	-	158.0			300	8.53	34.325	.46	26.84	137.3	.646
181	9.66	34.041	2.89	-	-	-	149.3			400	7.48	34.344	.49	26.96	110.1	.782
215	9.18	34.168	2.12	-	-	-	138.4			500	6.71	34.375	.22	27.10	97.5	.905
245	9.14	34.278	1.44	-	-	-	129.2			600	5.87					1.016
294	8.60	34.315	.92	-	-	-	117.8									
348	8.00	34.322	.81	-	-	-	108.2									
432	7.20	34.328	.27	-	-	-	97.5									
516	6.58	34.348	.49	-	-	-										
600	5.87	34.375	.22	-	-	-										

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	O*T	Z	T	S	OXY	SIG*T	O*T	DD			
117.50								CALCOFI CRUISE 6612								117.50	
ALEXANDER AGASSIZ, DECEMBER 13 1966, 2334 GMT, 28 08N 116 15W, SOUNDING 2160 FM, WIND 330 FORCE 2, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 07.																	
0	17.78	33.621	5.57	-	-	-	364.2	0	17.78	33.621	5.57	24.29	364.2	0			
10	17.42	33.593	5.55	-	-	-	358.0	10	17.42	33.593	5.55	24.36	358.0	.036			
30	16.91	33.541	5.66	-	-	-	350.3	20	17.14	33.568	5.59	24.40	353.5	.072			
40	16.71	33.509	5.73	-	-	-	348.2	30	16.91	33.541	5.66	24.44	350.3	.107			
55	14.46	33.447	5.52	-	-	-	305.1	50	15.29	33.461	5.64	24.74	321.0	.174			
71	13.14	33.534	4.81	-	-	-	272.8	75	12.80	33.770	4.44	25.50	249.1	.246			
75	12.80K	33.77 G	-	-	-	-	249.1	100	12.39	33.872	3.05	25.66	234.0	.307			
95	12.66	33.895	2.96	-	-	-	237.3	125	11.27	33.876	3.14	25.87	213.7	.364			
115	11.54	33.811	3.44	-	-	-	223.2	150	11.55	34.181	1.82	26.06	196.2	.416			
135	11.20	33.984	2.64	-	-	-	204.6	200	10.13	34.195	1.93	26.32	171.0	.509			
154	11.64	34.227	1.63	-	-	-	194.3	250	9.42	34.320	1.18	26.54	150.4	.592			
184	10.69	34.224	1.77	-	-	-	178.2	300	8.98	34.353	.72	26.63	141.3	.668			
218	9.62	34.184	1.97	-	-	-	163.7	400	7.87	34.361	.50	26.81	124.5	.807			
247	9.44	34.314	1.23	-	-	-	151.2	500	6.64	34.369	.33	26.99	107.5	.930			
296	9.02	34.351	.74	-	-	-	142.0	600	5.77	34.371	.27	27.11	96.6	1.040			
350	8.50	34.370	.54	-	-	-	132.9										
434	7.42	34.353	.47	-	-	-	118.9										
518	6.46	34.371	.31	-	-	-	105.0										
602	5.76	34.371	.27	-	-	-	96.5										

117.60				CALCOFI CRUISE 6612												117.60			
ALEXANDER AGASSIZ, DECEMBER 14 1966, 0559 GMT, 27 49.5N 116 57W, SOUNDING 1910 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 21.																			
1	18.91	33.739	5.39	-	-	-	382.3	0	18.91	33.739	5.39	24.10	382.3	0					
10	18.90	33.737	5.41	-	-	-	382.2	10	18.90	33.737	5.41	24.10	382.2	.038					
29	18.92	33.737	5.40	-	-	-	382.6	20	18.91	33.737	5.41	24.10	382.5	.077					
38	18.90	33.736	5.39	-	-	-	382.2	30	18.92	33.737	5.39	24.10	382.6	.115					
50	15.80K	33.42 G	-	-	-	-	334.9	50	15.80	33.420	5.91	24.60	334.9	.187					
52	15.68	33.415	5.99	-	-	-	332.7	75	13.59	33.420	5.58	25.07	289.9	.265					
66	14.24	33.411	5.75	-	-	-	303.3	100	12.30	33.614	4.27	25.48	251.3	.334					
89	12.82	33.484	5.09	-	-	-	270.5	125	11.12	33.829	3.26	25.86	214.7	.392					
106	12.03	33.690	3.83	-	-	-	240.8	150	10.25	33.949	2.89	26.11	191.2	.444					
124	11.16	33.823	3.28	-	-	-	215.7	200	9.49	34.152	2.25	26.40	164.0	.535					
141	10.57	33.908	2.99	-	-	-	199.5	250	8.87	34.210	1.66	26.54	150.3	.615					
166	9.78	34.017	2.73	-	-	-	178.6	300	8.19	34.234	1.29	26.67	138.4	.690					
196	9.52	34.140	2.32	-	-	-	165.4	400	7.65	34.379	.39	26.86	120.1	.825					
222	9.30	34.199	1.91	-	-	-	157.6	500	6.61	34.377	.25	27.00	106.4	.945					
266	8.61	34.216	1.56	-	-	-	145.9												
314	8.05	34.246	1.17	-	-	-	135.6												
390	7.77	34.381	.41	-	-	-	121.6												
469	6.91	34.375	.28	-	-	-	110.5												
551	6.16	34.386	.24	-	-	-	100.2												

117.70							CALCOFI CRUISE 6612							117.70						
ALEXANDER AGASSIZ, DECEMBER 14 1966, 1003 GMT, 27 32.5N 117 31W, SOUNDING 1960 FM, WIND 340 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 07.																				
0	18.96	33.739	5.57	-	-	-	383.5	0	18.96	33.739	5.57	24.09	383.5	0						
10	18.94	33.740	5.41	-	-	-	382.9	10	18.94	33.740	5.41	24.09	382.9	.038						
20	18.98K	-	-	-	-	-	-	20	18.98	33.739	5.40	24.08	383.9	.077						
30	19.00	33.737	5.42	-	-	-	384.6	30	19.00	33.737	5.42	24.08	384.6	.115						
60	13.96	33.486	5.11	-	-	-	292.2	50	15.86	33.545	5.25	24.68	327.2	.187						
70	13.08	33.568	4.55	-	-	-	269.2	75	12.66	33.602	4.32	25.40	258.8	.260						
86	11.91	33.679	3.92	-	-	-	239.5	100	11.48	33.809	3.58	25.78	222.3	.321						
100	11.48	33.809	3.58	-	-	-	222.3	125	10.64	33.903	3.08	26.01	201.0	.375						
115	10.95	33.863	3.32	-	-	-	209.2	150	9.96	34.011	2.83	26.21	181.9	.423						
140	10.22	33.966	2.80	-	-	-	189.4	200	8.88	34.120	2.40	26.47	157.0	.510						
160	9.72	34.051	2.87	-	-	-	175.1	250	8.43	34.211	1.65	26.61	143.7	.587						
190	9.10	34.110	2.45	-	-	-	161.1	300	8.12	34.289	1.43	26.72	133.3	.659						
219	8.54	34.140	2.34	-	-	-	150.5	400	7.42	34.368	.42	26.88	117.8	.790						
249	8.44	34.209	1.66	-	-	-	143.9	500	6.45	34.367	.30	27.02	105.2	.908						
299	8.12	34.287	1.45	-	-	-	133.5	600	5.81	34.395	.24	27.12	95.2	1.016						
354	7.90	34.373	.51	-	-	-	124.0													
439	6.96	34.347	.36	-	-	-	113.2													
523	6.28	34.374	.28	-	-	-	102.5													
607	5.77	34.397	.24	-	-	-	94.7													

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
117.80							CALCOFI CRUISE 6612								117.80	
ALEXANDER AGASSIZ, DECEMBER 14 1966, 1455 GMT, 27 14N 118 08.5W, SOUNDING 2100 FM, WIND 060 FORCE 4, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 10.																
0	18.38	33.648	5.45	-	-	-	376.2	0	18.38	33.648	5.45	24.16	376.2	0		
10	18.38	33.647	5.48	-	-	-	376.3	10	18.38	33.647	5.48	24.16	376.3	.038		
20	18.39K	33.65 G	-	-	-	-	376.3	20	18.39	33.650	5.45	24.16	376.3	.075		
30	18.40	33.648	5.45	-	-	-	376.7	30	18.40	33.648	5.45	24.16	376.7	.113		
50	18.40K	33.65 G	-	-	-	-	376.6	50	18.40	33.650	5.85	24.16	376.6	.189		
60	15.30	33.348	5.97	-	-	-	329.6	75	13.76	33.376	5.61	25.00	296.4	.273		
70	14.12	33.350	5.76	-	-	-	305.4	100	11.96	33.486	4.81	25.44	254.6	.343		
85	13.16	33.438	5.28	-	-	-	280.3	125	11.07	33.737	3.81	25.80	220.5	.403		
100	11.96	33.486	4.81	-	-	-	254.6	150	9.85	33.830	3.65	26.08	193.5	.455		
114	11.56	33.656	4.14	-	-	-	235.0	200	9.30	34.106	2.48	26.39	164.5	.546		
139	10.37	33.800	3.61	-	-	-	204.2	250	8.82	34.228	1.47	26.56	148.1	.627		
158	9.54	33.853	3.66	-	-	-	186.9	300	7.72	34.188	1.40	26.70	135.2	.700		
187	9.45	34.059	2.77	-	-	-	170.3	400	6.85	34.274	.60	26.89	117.2	.832		
216	9.10	34.146	2.15	-	-	-	158.4	500	6.22	34.332	.41	27.02	104.9	.949		
246	8.90	34.229	1.50	-	-	-	149.3	600	5.68	34.378	.30	27.12	95.1	1.056		
295	7.79	34.186	1.44	-	-	-	136.4									
350	7.20	34.231	.91	-	-	-	125.0									
433	6.66	34.300	.47	-	-	-	112.8									
517	6.12	34.340	.39	-	-	-	103.1									
601	5.68	34.378	.30	-	-	-	95.0									

118.39							CALCOFI CRUISE 6612							118.39													
ALEXANDER AGASSIZ, DECEMBER 13 1966, 0742 GMT, 28 17.5N 115 24W, SOUNDING 134 FM, WIND 010 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 13.																											
0	16.53	33.525	5.70	-	-	-	343.0	0	16.53	33.525	5.70	24.51	343.0	0													
10	16.50	33.519	5.68	-	-	-	342.8	10	16.50	33.519	5.68	24.52	342.8	.034													
30	16.26	33.501	5.62	-	-	-	338.9	20	16.40	33.511	5.65	24.53	341.2	.069													
44	14.77	33.414	5.41	-	-	-	313.8	30	16.26	33.501	5.62	24.56	338.9	.103													
54	13.63	33.371	5.32	-	-	-	294.2	50	14.07	33.380	5.38	24.94	302.2	.167													
68	12.62	33.515	4.53	-	-	-	264.5	75	12.22	33.566	4.25	25.45	253.4	.237													
83	11.84	33.622	3.98	-	-	-	242.5	100	11.26	33.779	3.44	25.80	220.6	.297													
102	11.20	33.797	3.39	-	-	-	218.3	125	10.49	33.899	3.15	26.03	198.8	.350													
125	10.49	33.899	3.15	-	-	-	198.8	150	9.95	33.971	3.00	26.18	184.7	.398													
144	10.12	33.950	3.02	-	-	-	189.0																				
173	9.61	34.066	2.67	-	-	-	172.3																				
198	9.80	34.198	1.81	-	-	-	165.5																				

119.33							CALCOFI CRUISE 6612							119.33			
ALEXANDER AGASSIZ, DECEMBER 12 1966, 1347 GMT, 28 19N 114 53W, SOUNDING 57 FM, WIND 340 FORCE 2, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 03.																	
0	17.47	33.994	5.60	-	-	-	329.9	0	17.47	33.994	5.60	24.65	329.9	0			
10	17.46	33.591	5.56	-	-	-	359.1	10	17.46	33.591	5.56	24.34	359.1	.034			
25	17.41	33.587	5.55	-	-	-	358.2	20	17.43	33.588	5.54	24.35	358.5	.070			
35	16.24	33.495	5.72	-	-	-	338.9	30	16.82	33.540	5.64	24.46	348.3	.106			
45	16.11	33.493	5.69	-	-	-	336.2	50	15.74	33.461	5.63	24.64	330.6	.174			
60	14.72	33.408	5.53	-	-	-	313.2	75	13.10	33.485	5.57	25.22	275.7	.250			
75	13.10	33.485	5.57	-	-	-	275.7	100	11.50	33.739	3.29	25.72	227.8	.314			
100	11.50	33.739	3.29	-	-	-	227.8										

120.45				CALCOFI CRUISE 6612												120.45			
ALEXANDER AGASSIZ, DECEMBER 15 1966, 1426 GMT, 27 43N 115 33W, SOUNDING 1305 FM, WIND 350 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 07.																			
0	17.92	33.725	5.46	-	-	-	359.9	0	17.92	33.725	5.46	24.34	359.9	0					
10	17.87	33.729	5.49	-	-	-	358.4	10	17.87	33.729	5.49	24.35	358.4	.036					
20	17.68K	33.73 G	5.49G	-	-	-	354.0	20	17.68	33.730	5.49	24.40	354.0	.072					
30	17.41	33.769	5.50	-	-	-	345.0	30	17.41	33.769	5.50	24.49	345.0	.107					
40	15.35	33.526	5.20	-	-	-	317.6	50	13.96	33.502	4.89	25.06	291.0	.170					
56	13.40	33.534	4.69	-	-	-	277.8	75	12.53	33.707	3.95	25.51	248.6	.238					
71	12.76	33.675	4.11	-	-	-	255.3	100	11.41	33.910	2.99	25.87	213.6	.297					
95	11.50	33.862	3.20	-	-	-	218.8	125	10.85	34.033	2.50	26.07	194.9	.348					
115	11.18	34.027	2.50	-	-	-	201.0	150	9.99	34.067	2.56	26.25	178.2	.396					
135	10.48	34.042	2.58	-	-	-	188.1	200	9.69	34.279	1.43	26.46	157.8	.481					
155	9.85	34.079	2.54	-	-	-	175.1	250	9.40	34.354	.90	26.57	147.6	.560					
185	9.66	34.214	1.76	-	-	-	162.1	300	9.43	34.456	.43	26.64	140.5	.635					
219	9.71	34.340	1.10	-	-	-	153.6	400	7.81	34.357	.51	26.82	123.9	.774					
249	9.40	34.352	.91	-	-	-	147.8	500	6.87	34.379	.25	26.97	109.6	.897					
299	9.44	34.457	.43	-	-	-	140.6	600	6.06	34.395	.19	27.09	98.3	1.009					
355	8.42	34.357	.62	-	-	-	132.6												
439	7.38	34.378	.35	-	-	-	116.5												
523	6.68	34.381	.22	-	-	-	107.0												
607	6.01	34.397	.19	-	-	-	97.5												

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D* ² T	Z	T	S	OXY	SIG* ² T	D* ² T	DD		
							CALCOFI CRUISE 6612								120.50	
120.50																
ALEXANDER AGASSIZ, DECEMBER 15 1966, 1120 GMT, 27 32N 115 52.5W, SOUNDING 2050 FM, WIND 100 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 10.																
0	17.84	33.684	5.51	-	-	-	361.0	0	17.84	33.684	5.51	24.32	361.0	0		
10	17.84	33.679	5.51	-	-	-	361.4	10	17.84	33.679	5.51	24.32	361.4	.036		
20	17.84K	-	-	-	-	-	-	20	17.84	33.677	5.55	24.32	361.5	.072		
30	17.84	33.676	5.52	-	-	-	361.6	30	17.84	33.676	5.52	24.32	361.6	.109		
40	16.10	33.527	5.32	-	-	-	333.5	50	14.48	33.509	5.00	24.96	300.9	.175		
54	13.92	33.510	4.84	-	-	-	289.7	75	12.28	33.650	4.01	25.51	248.3	.244		
69	12.66	33.605	4.19	-	-	-	258.6	100	11.19	33.835	3.56	25.85	215.4	.303		
94	11.40	33.795	3.63	-	-	-	222.0	125	10.64	33.984	3.02	26.07	195.0	.354		
114	10.82	33.922	3.36	-	-	-	202.6	150	10.61	34.136	2.13	26.19	183.3	.403		
134	10.56	34.035	2.69	-	-	-	189.9	200	9.66	34.208	1.91	26.41	162.5	.491		
154	10.62	34.158	2.01	-	-	-	181.9	250	9.18	34.277	1.33	26.54	150.0	.571		
183	10.01	34.199	1.96	-	-	-	168.8	300	8.82	34.350	.84	26.66	139.1	.646		
218	9.36	34.214	1.80	-	-	-	157.4	400	7.74	34.359	.51	26.83	122.9	.783		
247	9.20	34.271	1.37	-	-	-	150.7	500	6.68	34.362	.28	26.98	108.5	.906		
298	8.84	34.349	.85	-	-	-	139.5	600	5.98	34.394	.21	27.10	97.4	1.017		
351	8.31	34.358	.62	-	-	-	131.0									
435	7.34	34.360	.46	-	-	-	117.3									
519	6.52	34.363	.25	-	-	-	106.4									
603	5.97	34.396	.21	-	-	-	97.1									
							CALCOFI CRUISE 6612								120.60	
120.60																
ALEXANDER AGASSIZ, DECEMBER 15 1966, 0609 GMT, 27 12N 116 29.5W, SOUNDING 1980 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 08.																
0	19.34	33.837	5.32	-	-	-	385.6	0	19.34	33.837	5.32	24.07	385.6	0		
10	19.34	33.909U	5.38	-	-	-	380.3	10	19.34	33.835	5.38	24.07	385.7	.039		
20	19.34K	-	-	-	-	-	-	20	19.34	33.833	5.39	24.06	385.8	.077		
30	19.35	33.832	5.39	-	-	-	386.2	30	19.35	33.832	5.39	24.06	386.2	.116		
50	19.35K	33.83 G	-	-	-	-	386.3	50	19.35	33.830	5.64	24.06	386.3	.193		
60	18.24	33.725	5.82	-	-	-	367.4	75	15.80	33.510	5.94	24.67	328.3	.283		
70	16.29	33.538	6.00	-	-	-	336.8	100	14.64	33.687	5.30	25.06	291.1	.361		
75	15.80K	-	-	-	-	-	-	125	12.55	33.671	4.50	25.47	251.7	.430		
84	14.93	33.494	5.73	-	-	-	311.2	150	11.32	33.792	3.78	25.80	220.7	.490		
100	14.64	33.687	5.30	-	-	-	291.1	200	9.66	34.049	2.86	26.29	174.3	.590		
115	13.14	33.661	4.83	-	-	-	263.5	250	9.28	34.270	1.49	26.52	152.0	.674		
140	11.88	33.725	4.04	-	-	-	235.6	300	8.64	34.298	1.08	26.65	140.3	.750		
159	10.84	33.857	3.57	-	-	-	207.8	400	7.48	34.318	.60	26.84	122.3	.887		
188	9.87	33.992	3.17	-	-	-	181.9	500	6.61	34.341	.35	26.97	109.2	1.010		
218	9.47	34.134	2.34	-	-	-	165.0	600	5.88	34.380		27.10	97.2	1.121		
247	9.31	34.264	1.54	-	-	-	152.9									
296	8.68	34.297	1.10	-	-	-	140.9									
350	8.14	34.303	.92	-	-	-	132.6									
434	7.05	34.329	.45	-	-	-	115.7									
519	6.48	34.346	.33	-	-	-	107.1									
602	5.86	34.381	.04U	-	-	-	96.9									
							CALCOFI CRUISE 6612								120.70	
120.70																
ALEXANDER AGASSIZ, DECEMBER 15 1966, 0040 GMT, 26 52.5N 117 09W, SOUNDING 2080 FM, WIND 350 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 16.																
0	19.94	33.903	5.28	-	-	-	395.6	0	19.94	33.903	5.28	23.96	395.6	0		
9	19.86	33.899	5.41	-	-	-	393.9	10	19.85	33.899	5.41	23.98	393.7	.039		
29	19.82	33.897	5.36	-	-	-	393.0	20	19.83	33.898	5.39	23.99	393.2	.079		
30	19.82K	-	-	-	-	-	-	30	19.82	33.889	5.38	23.98	393.6	.118		
58	16.50	33.586	5.93	-	-	-	337.9	50	17.75	33.687	5.80	24.35	358.7	.194		
69	15.34	33.484	5.82	-	-	-	320.5	75	15.20	33.530	5.70	24.82	314.2	.278		
75	15.20K	33.53 G	-	-	-	-	314.2	100	14.42	33.797	5.13	25.19	278.7	.353		
83	15.62	33.775	5.51	-	-	-	305.1	125	12.72	33.813	4.81	25.55	244.4	.419		
97	14.64	33.791	5.20	-	-	-	283.5	150	11.56	33.854	3.93	25.80	220.4	.478		
112	13.58	33.820	4.90	-	-	-	260.3	200	10.05	34.134	2.35	26.29	174.2	.579		
135	12.15	33.811	4.78	-	-	-	234.1	250	9.64	34.306	1.29	26.49	154.9	.663		
154	11.43	33.872	3.68	-	-	-	216.8	300	9.20	34.411	.60	26.64	140.4	.740		
183	10.50	34.075	2.73	-	-	-	186.0	400	7.96	34.400	.36	26.83	122.8	.878		
211	9.83	34.164	2.14	-	-	-	168.5	500	7.10	34.428	.16	26.98	108.9	1.001		
241	9.68	34.276	1.47	-	-	-	157.8	600	6.06	34.382	.21	27.08	99.3	1.113		
289	9.35	34.401	.69	-	-	-	143.4									
342	8.58	34.417	.43	-	-	-	130.5									
424	7.74	34.393	.33	-	-	-	120.3									
508	7.02	34.428	.15	-	-	-	107.9									
591	6.16	34.390	.19	-	-	-	99.9									

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	O*T	Z	T	S	OXY	SIG*T	O*T	CD			
120.80								CALCOFI CRUISE 6612								120.80	
ALEXANDER AGASSIZ, DECEMBER 14 1966, 2002 GMT, 26 34N 117 47.5W, SOUNDING 2090 FM, WIND 350 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 10.																	
0	18.81	33.66 G	4.85U	-	-	-	385.6	0	18.81	33.660		24.07	385.6	0			
10	18.63	33.656	5.37	-	-	-	381.6	10	18.63	33.656	5.37	24.11	381.6	.038			
20	18.63K	-	-	-	-	-	-	20	18.63	33.655	5.21	24.11	381.7	.077			
30	18.63	33.656	5.18	-	-	-	381.6	30	18.63	33.656	5.18	24.11	381.6	.115			
50	18.62K	33.66 G	-	-	-	-	381.1	50	18.62	33.660	5.56	24.11	381.1	.191			
59	16.74	33.420	5.81	-	-	-	355.3	75	15.05	33.446	5.92	24.78	317.3	.279			
69	15.52	33.405	6.00	-	-	-	330.0	100	13.23	33.481	5.30	25.19	278.5	.354			
83	14.54	33.504	5.72	-	-	-	302.5	125	11.69	33.698	4.04	25.66	234.2	.419			
99	13.30	33.477	5.34	-	-	-	280.1	150	10.62	33.874	3.42	25.99	202.8	.474			
113	12.44	33.571	4.69	-	-	-	257.1	200	9.52	34.092	2.68	26.34	169.0	.569			
138	11.00	33.826	3.48	-	-	-	212.8	250	9.07	34.227	1.63	26.52	152.0	.652			
157	10.44	33.892	3.38	-	-	-	198.5	300	8.68	34.338	.86	26.67	137.9	.727			
187	9.62	34.016	3.12	-	-	-	176.1	400	7.72	34.387	.37	26.86	120.4	.862			
216	9.46	34.174	2.11	-	-	-	161.9	500	6.85	34.400	.23	26.99	107.9	.983			
246	9.10	34.217	1.70	-	-	-	153.2	600	6.13	34.421	.22	27.10	97.1	1.094			
296	8.72	34.333	.90	-	-	-	138.9										
350	8.20	34.373	.53	-	-	-	128.3										
435	7.39	34.391	.31	-	-	-	115.6										
520	6.70	34.403	.22	-	-	-	105.7										
604	6.10	34.422	.22	-	-	-	96.7										

123.37															CALCOFI CRUISE 6612															123.37																																												
ALEXANDER AGASSIZ, DECEMBER 15 1966, 2054 GMT, 27 24.5N 114 40W, SOUNDING 38 FM, WIND 240 FORCE 1, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 00.																																																																										
0					18.11					33.832					5.54					-					-					-					356.5					0					18.11					33.832					5.54					24.37					356.5					0				
10					17.96					33.828					5.55					-					-					-					353.3					10					17.96					33.828					5.55					24.41					353.3					.036				
20					17.96					33.829					5.58					-					-					-					353.2					20					17.96					33.829					5.58					24.41					353.2					.071				
30					17.48					33.767					5.51					-					-					-					346.7					30					17.48					33.767					5.51					24.47					346.7					.106				
50					14.96					33.833					3.73					-					-					-					287.0					50					14.96					33.833					3.73					25.10					287.0					.170				

123.42

CALCOFI CRUISE 6612

123.42

ALEXANDER AGASSIZ, DECEMBER 15 1966, 2323 GMT, 27 14N 114 59.5W, SOUNDING 975 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 03.

0	17.50	33.774	5.14	-	-	-	346.6	0	17.50	33.774	5.14	24.48	346.6	0
10	16.92	33.737	5.65	-	-	-	336.2	10	16.92	33.737	5.65	24.58	336.2	.034
30	16.66	33.702	5.61	-	-	-	333.0	20	16.81	33.715	5.72	24.59	335.3	.068
50	16.00K	33.68 G	-	-	-	-	320.2	30	16.66	33.702	5.61	24.62	333.0	.101
60	14.16	33.627	4.93	-	-	-	285.9	50	16.00	33.680	5.37	24.75	320.2	.167
70	12.44	33.553	4.01	-	-	-	258.4	75	12.04	33.596	3.91	25.51	247.9	.238
85	11.70	33.731	3.78	-	-	-	231.9	100	11.56	33.855	3.85	25.80	220.3	.297
100	11.56	33.855	3.85	-	-	-	220.3	125	10.74	33.993	2.61	26.06	195.9	.350
115	11.02	33.946	2.89	-	-	-	204.3	150	10.28	34.103	2.34	26.22	180.3	.398
160	10.20	34.143	2.18	-	-	-	176.0	200	10.27	34.337	1.32	26.41	162.9	.485
190	10.30	34.291	1.53	-	-	-	166.7	250	10.38	34.508	.49	26.52	152.0	.567
221	10.23	34.422	.91	-	-	-	155.9	300	9.02	34.353	.87	26.63	141.9	.643
251	10.38	34.509	.48	-	-	-	151.9	400	8.05	34.388	.43	26.81	125.0	.783
301	8.99	34.349	.88	-	-	-	141.7	500	7.03	34.382	.32	26.95	111.5	.908
356	8.43	34.377	.56	-	-	-	131.3	600	6.30	34.422	.17	27.08	99.2	1.022
441	7.70	34.392	.37	-	-	-	119.8							
526	6.79	34.385	.29	-	-	-	108.2							
610	6.26	34.430	.15	-	-	-	98.1							

123.50							CALCOFI CRUISE 6612							123.50						
ALEXANDER AGASSIZ, DECEMBER 16 1966, 0358 GMT, 26 57N 115 30.5W, SOUNDING 1740 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 15.																				
0	18.45	33.717	5.47	-	-	-	372.9	0	18.45	33.717	5.47	24.20	372.9	0						
10	18.44	33.713	5.47	-	-	-	372.9	10	18.44	33.713	5.47	24.20	372.9	.037						
29	17.99	33.670	5.49	-	-	-	365.5	20	18.33	33.698	5.49	24.21	371.5	.075						
58	14.40	33.463	5.26	-	-	-	302.7	30	17.88	33.660	5.48	24.30	363.6	.111						
68	13.68	33.504	5.32	-	-	-	285.4	50	15.45	33.504	5.31	24.74	321.4	.180						
82	12.40	33.491	5.01	-	-	-	262.2	75	13.00	33.492	5.23	25.25	273.3	.255						
97	12.08	33.666	4.12	-	-	-	243.5	100	11.95	33.686	4.03	25.60	239.8	.320						
111	11.44	33.744	3.79	-	-	-	226.4	125	10.85	33.818	3.43	25.90	210.9	.377						
136	10.48	33.881	3.18	-	-	-	200.0	150	10.20	33.988	2.97	26.15	187.4	.427						
155	10.11	34.021	2.93	-	-	-	183.6	200	9.01	34.041	3.08	26.39	164.8	.517						
184	9.36	34.021	3.29	-	-	-	171.7	250	8.96	34.243	1.47	26.55	149.2	.598						
213	8.83	34.074	2.74	-	-	-	159.7	300	8.64	34.354	.77	26.69	136.1	.671						
241	8.98	34.210	1.69	-	-	-	151.9	400	7.63	34.365	.30	26.85	120.9	.806						
289	8.73	34.342	.86	-	-	-	138.3	500	6.84	34.387	.18	26.98	108.6	.928						
342	8.26	34.372	.57	-	-	-	129.2	600	5.88	34.393	.17	27.11	96.3	1.038						
425	7.37	34.359	.22	-	-	-	117.7													
508	6.77	34.389	.18	-	-	-	107.6													
591	5.98	34.393	.17	-	-	-	97.5													

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NI	D* ²	Z	T	S	OXY	SIG* ²	D* ²	DD		
123.60							CALCOFI CRUISE 6612								123.60	
ALEXANDER AGASSIZ, DECEMBER 16 1966, 0909 GMT, 26 36.5N 116 10W, SOUNDING 2047 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 20.																
0	19.60	33.952	5.35	-	-	-	383.6	0	19.60	33.952	5.35	24.09	383.6	0		
10	19.59	33.952	5.33	-	-	-	383.3	10	19.59	33.952	5.33	24.09	383.3	.038		
29	19.63	33.954	5.32	-	-	-	384.2	20	19.61	33.953	5.32	24.09	383.7	.077		
52	19.63	33.951	5.36	-	-	-	384.2	30	19.63	33.954	5.32	24.08	384.2	.115		
61	19.58	33.954	-	-	-	-	382.9	50	19.63	33.953	5.34	24.08	384.4	.192		
70	17.56	33.775	5.92	-	-	-	347.9	75	17.36	33.780	5.88	24.51	343.0	.284		
75	17.36K	33.78 G	-	-	-	-	343.0	100	15.88	33.701	5.61	24.80	316.0	.367		
85	16.94	33.805	5.72	-	-	-	331.7	125	13.19	33.471	5.27	25.19	278.4	.442		
99	15.99	33.718	5.61	-	-	-	317.2	150	11.76	33.738	3.77	25.67	232.5	.507		
121	13.50	33.438	5.53	-	-	-	286.8	200	10.10	34.041	2.81	26.21	181.9	.612		
140	12.26	33.663	4.19	-	-	-	247.0	250	9.03	34.163	2.08	26.48	156.1	.699		
162	11.25	33.809	3.45	-	-	-	218.3	300	8.21	34.189	1.55	26.63	142.1	.776		
189	10.28	33.972	3.16	-	-	-	190.0	400	7.76	34.347	.48	26.82	124.0	.915		
215	9.89	34.120	2.33	-	-	-	172.7	500	6.79	34.381	.23	26.98	108.5	1.038		
251	9.00	34.164	2.07	-	-	-	155.6									
302	8.19	34.190	1.53	-	-	-	141.7									
374	8.18	34.363	.54	-	-	-	128.7									
443	7.22	34.343	.38	-	-	-	116.9									
519	6.72	34.404	.17	-	-	-	105.8									

127.34				CALCOFI CRUISE 6612												127.34			
ALEXANDER AGASSIZ, DECEMBER 17 1966, 0935 GMT, 26 55.5N 114 06.5W, SOUNDING 45 FM, WIND 040 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 04.																			
0	18.84	33.998	5.37	-	-	-	361.8	0	18.84	33.998	5.37	24.32	361.8	0					
10	18.84	33.990	5.40	-	-	-	362.3	10	18.84	33.990	5.40	24.31	362.3	.036					
20	18.83	33.984	5.40	-	-	-	362.5	20	18.83	33.984	5.40	24.31	362.5	.073					
30	17.73	33.861	5.31	-	-	-	345.6	30	17.73	33.861	5.31	24.49	345.6	.108					
50	15.58	33.731	4.72	-	-	-	307.5	50	15.58	33.731	4.72	24.89	307.5	.174					
75	13.87	33.762	3.80	-	-	-	270.2	75	13.87	33.762	3.80	25.28	270.2	.246					

127.40	CALCOFI CRUISE 6612												127.40	
ALEXANDER AGASSIZ, DECEMBER 17 1966, 0615 GMT, 26 49N 114 30W, SOUNDING 1760 FM, WIND 320 FORCE 2, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 00.														
0	19.96	33.997	5.24	-	-	-	389.2	0	19.96	33.997	5.24	24.03	389.2	0
10	19.92	33.992	5.30	-	-	-	388.6	10	19.92	33.992	5.30	24.03	388.6	.039
20	19.92K	-	-	-	-	-	-	20	19.92	33.990	5.30	24.03	388.8	.078
30	19.92	33.988	5.31	-	-	-	388.9	30	19.92	33.988	5.31	24.03	388.9	.117
40	19.18	33.886	5.35	-	-	-	378.1	50	14.93	33.680	4.85	24.99	297.6	.186
50	14.93K	33.68 G	-	-	-	-	297.6	75	13.56	33.846	3.20	25.41	258.1	.256
55	14.48	33.679	4.48	-	-	-	288.5	100	12.74	33.981	2.57	25.68	232.4	.317
70	13.72	33.821	3.37	-	-	-	263.0	125	11.80	34.164	1.82	26.00	201.8	.372
95	12.98	33.939	2.76	-	-	-	240.1	150	11.66	34.365	1.10	26.18	184.6	.422
115	12.06	34.110	2.02	-	-	-	210.5	200	11.37	34.573	.50	26.39	164.1	.511
135	11.66	34.221	1.62	-	-	-	195.1	250	10.46	34.531	.46	26.53	151.6	.592
156	11.69	34.423	.90	-	-	-	180.8	300	9.18	34.410	.66	26.65	140.1	.668
186	11.55	34.560	.52	-	-	-	168.2	400	8.01	34.392	.45	26.82	124.1	.807
221	11.02	34.560	.47	-	-	-	159.0	500	6.97	34.380	.30	26.96	110.8	.931
251	10.44	34.530	.46	-	-	-	151.4	600	6.13	34.404	.27	27.09	98.4	1.044
301	9.16	34.408	.66	-	-	-	139.9							
356	8.46	34.384	.59	-	-	-	131.2							
441	7.62	34.403	.33	-	-	-	117.9							
526	6.72	34.379	.29	-	-	-	107.7							
610	6.06	34.411	.27	-	-	-	97.1							

127.50				CALCOFI CRUISE 6612										127.50			
ALEXANDER AGASSIZ, DECEMBER 17 1966, 0025 GMT, 26 22N 115 08W, SOUNDING 1720 FM, WIND 320 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 17.																	
0	20.09	34.022	5.28	-	-	-	390.7	0	20.09	34.022	5.28	24.01	390.7	0			
10	19.72	34.013	5.30	-	-	-	382.1	10	19.72	34.013	5.30	24.10	382.1	.039			
29	18.80	33.960	5.40	-	-	-	363.6	20	19.34	34.000	5.39	24.19	373.8	.077			
40	17.62	33.841	5.18	-	-	-	344.5	30	18.73	33.950	5.39	24.31	362.5	.113			
54	14.44	33.742	4.16	-	-	-	283.1	50	15.33	33.759	4.47	24.96	300.1	.180			
68	13.51	33.806	3.57	-	-	-	260.0	75	13.00	33.819	3.41	25.50	249.3	.249			
92	11.93	33.870	3.09	-	-	-	225.8	100	11.60	33.931	2.85	25.85	215.4	.308			
110	11.30	34.022	2.51	-	-	-	203.5	125	11.07	34.160	1.93	26.13	189.4	.359			
128	11.06	34.187	1.81	-	-	-	187.2	150	11.04	34.328	1.27	26.26	176.4	.405			
146	11.22	34.333	1.24	-	-	-	179.2	200	9.98	34.366	1.08	26.48	156.0	.490			
173	9.90	34.263	1.57	-	-	-	162.3	250	9.67	34.403	.80	26.56	148.2	.569			
204	10.04	34.385	.99	-	-	-	155.5	300	8.90	34.357	.83	26.65	139.8	.644			
232	9.86	34.403	.81	-	-	-	151.3	400	7.70	34.372	.45	26.85	121.3	.780			
277	9.30	34.389	.79	-	-	-	143.5	500	6.67	34.370	.34	26.99	107.8	.902			
329	8.40	34.320	.86	-	-	-	135.1										
408	7.64	34.381	.40	-	-	-	119.8										
488	6.79	34.370	.35	-	-	-	109.3										
571	6.05	34.382	.30	-	-	-	99.1										

OBSERVED LEVELS OF DEPTH

STANDARD LEVELS OF DEPTH

INPUT								COMPUTED							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
127.55								CALCOFI CRUISE 6612						127.55	
ALEXANDER AGASSIZ, DECEMBER 16 1966, 1712 GMT, 26 14N 115 27W, SOUNDING 1926 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 23.															
859A	4.65	34.476	.39	-	-	-	76.2								
907	4.44	-	-	-	-	-	-								
965	4.21	34.495	.49	-	-	-	70.2								
984	4.12	-	-	-	-	-	-								
999	4.08	-	-	-	-	-	-								
1004	4.07	34.503	.57	-	-	-	68.2								
1008	4.07	-	-	-	-	-	-								
1023	4.00	-	-	-	-	-	-								
1052	3.91	-	-	-	-	-	-								
1148	3.71	34.534	.71	-	-	-	62.4								
1293	3.32	34.547	.96	-	-	-	57.8								
1590	2.74	34.594	1.37	-	-	-	49.2								

127.55 CALCOFI CRUISE 6612 127.55
ALEXANDER AGASSIZ, DECEMBER 16 1966, 1850 GMT, 26 14N 115 27W, SOUNDING 1948 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 20.

1509A	2.90	34.585	1.11	-	-	-	51.2
1656	2.63	-	-	-	-	-	-
1803	2.43	34.614	1.61	-	-	-	45.2
1899	2.31	-	-	-	-	-	-
1993	2.19	-	-	-	-	-	-
1998	2.18	34.635	1.95	-	-	-	41.6
2004	2.17	-	-	-	-	-	-
2018	2.15	-	-	-	-	-	-
2048	2.12	-	-	-	-	-	-
2194	1.99	34.650	2.18	-	-	-	39.0
2391	1.90	34.652	2.34	-	-	-	38.2
2591	1.80	34.658	2.51	-	-	-	37.0

127.55 CALCOFI CRUISE 6612 127.55
ALEXANDER AGASSIZ, DECEMBER 16 1966, 2054 GMT, 26 14N 115 27W, SOUNDING 2046 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 20.

2625A	1.79	34.659	2.51	-	-	-	36.9
2820	1.72	-	-	-	-	-	-
3017	1.67	34.666	2.76	-	-	-	35.5
3114	1.66	-	-	-	-	-	-
3208	1.66	-	-	-	-	-	-
3212	1.65	34.667	2.85	-	-	-	35.3
3217	1.66	-	-	-	-	-	-
3309	1.65	-	-	-	-	-	-
3384	1.65	-	-	-	-	-	-
3458	1.65	34.670	2.87	-	-	-	35.1
3532	1.65	34.674	2.90	-	-	-	34.8
3606	1.63	34.672	2.96	-	-	-	34.8

A) A SPECIAL CAST FOR THE VERIFICATION OF THE PRESSURE FACTORS FOR THE UNPROTECTED REVERSING THERMOMETERS.

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	OD			
127.60								CALCOFI CRUISE 6612								127.60	
ALEXANDER AGASSIZ, DECEMBER 16 1966, 1348 GMT, 25 59N 115 49W, SOUNDING 2030 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 24.																	
0	18.78	33.755	5.39	-	-	-	378.0	0	18.78	33.755	5.39	24.15	378.0	0			
9	18.78	33.751	5.41	-	-	-	378.3	10	18.78	33.751	5.41	24.14	378.3	.038			
27	18.76	33.745	5.42	-	-	-	378.2	20	18.77	33.747	5.42	24.14	378.3	.076			
30	18.73K	-	-	-	-	-	-	30	18.73	33.719	5.55	24.13	379.4	.114			
50	16.43	33.511	5.95	-	-	-	341.9	50	16.43	33.511	5.95	24.53	341.9	.186			
59	14.76	33.448	5.41	-	-	-	311.1	75	13.71	33.627	4.52	25.21	277.0	.264			
69	13.94	33.483	5.35	-	-	-	292.1	100	12.40	33.900	2.69	25.68	232.1	.328			
83	13.48	33.829	3.34	-	-	-	257.7	125	11.85	34.081	2.24	25.92	208.9	.384			
96	12.77	33.898	2.99	-	-	-	239.1	150	10.73	34.075	2.38	26.12	189.9	.434			
100	12.40K	33.90 G	-	-	-	-	232.1	200	9.67	34.223	1.74	26.42	161.6	.524			
118	12.60	34.160	1.80	-	-	-	216.7	250	9.26	34.303	1.19	26.55	149.3	.604			
135	10.74	33.951	2.89	-	-	-	199.2	300	8.65	34.330	.88	26.67	138.0	.679			
156	10.73	34.150	2.05	-	-	-	184.3	400	7.46	34.341	.45	26.86	120.3	.814			
182	9.96	34.199	1.89	-	-	-	168.0	500	6.62	34.393	.26	27.01	105.4	.934			
208	9.58	34.233	1.66	-	-	-	159.4										
243	9.34	34.296	1.25	-	-	-	151.0										
294	8.72	34.329	.91	-	-	-	139.1										
360	7.96	34.337	.59	-	-	-	127.5										
428	7.16	34.349	.38	-	-	-	115.7										
503	6.60	34.395	.26	-	-	-	105.0										
130.30								CALCOFI CRUISE 6612								130.30	
ALEXANDER AGASSIZ, DECEMBER 17 1966, 1626 GMT, 26 29N 113 29W, SOUNDING 42 FM, WIND 020 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 04.																	
0	19.40	33.995	5.28	-	-	-	375.6	0	19.40	33.995	5.28	24.17	375.6	0			
10	19.40	33.996	5.31	-	-	-	375.5	10	19.40	33.996	5.31	24.17	375.5	.038			
20	19.42	33.996	5.32	-	-	-	376.0	20	19.42	33.996	5.32	24.17	376.0	.075			
30	19.42	33.994	5.57	-	-	-	376.1	30	19.42	33.994	5.57	24.17	376.1	.113			
50	15.31	33.587	5.35	-	-	-	312.3	50	15.31	33.587	5.35	24.84	312.3	.182			
130.40								CALCOFI CRUISE 6612								130.40	
ALEXANDER AGASSIZ, DECEMBER 17 1966, 2119 GMT, 26 07.5N 114 06.5W, SOUNDING 1528 FM, WIND 090 FORCE 2, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.																	
0	20.46	34.019	5.22	-	-	-	400.2	0	20.46	34.019	5.22	23.91	400.2	0			
10	20.30	34.018	5.31	-	-	-	396.2	10	20.30	34.018	5.31	23.95	396.2	.040			
20	20.30K	34.04 G	-	-	-	-	394.6	20	20.30	34.040	5.29	23.97	394.6	.079			
30	20.31	34.063	5.26	-	-	-	393.2	30	20.31	34.063	5.26	23.99	393.2	.119			
55	14.88	33.461	5.61	-	-	-	312.6	50	16.09	33.580	5.60	24.66	329.3	.191			
65	14.04	33.491	5.22	-	-	-	293.5	75	13.88	33.702	4.29	25.23	274.8	.267			
75	13.88	33.702	4.29	-	-	-	274.8	100	12.20	33.920	3.05	25.73	226.9	.331			
90	12.54	33.822	3.34	-	-	-	240.4	125	10.88	33.933	3.10	25.99	202.8	.385			
105	12.07	33.960	2.98	-	-	-	221.7	150	10.29	34.130	2.23	26.24	178.5	.433			
130	10.60	33.926	3.11	-	-	-	198.7	200	10.41	34.450	.73	26.47	156.7	.519			
150	10.29	34.130	2.23	-	-	-	178.5	250	10.10	34.492	.50	26.56	148.6	.598			
176	10.16	34.251	1.60	-	-	-	167.4	300	9.33	34.451	.50	26.65	139.4	.673			
205	10.46	34.487	.57	-	-	-	154.9	400	8.07	34.438	.28	26.84	121.6	.810			
235	10.36	34.516	.45	-	-	-	151.1	500	7.27	34.454	.17	26.97	109.2	.933			
275	9.60	34.443	.59	-	-	-	144.2										
335	9.02	34.479	.32	-	-	-	132.5										
409	7.94	34.431	.27	-	-	-	120.3										
484	7.39	34.452	.18	-	-	-	111.1										
564	6.74	34.457	.18	-	-	-	102.1										
130.50								CALCOFI CRUISE 6612								130.50	
ALEXANDER AGASSIZ, DECEMBER 18 1966, 0228 GMT, 25 47.5N 114 45.5W, SOUNDING 1886 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 05.																	
0	20.20	33.914	5.28	-	-	-	401.3	0	20.20	33.914	5.28	23.90	401.3	0			
10	20.07	33.907	5.31	-	-	-	398.5	10	20.07	33.907	5.31	23.93	398.5	.040			
30	19.94	33.899	5.34	-	-	-	395.8	20	20.00	33.903	5.33	23.95	397.0	.080			
40	18.87	33.761	5.44	-	-	-	379.7	30	19.94	33.899	5.34	23.96	395.8	.120			
51	15.66	33.548	5.46	-	-	-	322.5	50	15.96	33.566	5.46	24.67	327.7	.192			
66	14.00	33.488	5.27	-	-	-	292.9	75	13.56	33.656	4.30	25.26	272.1	.268			
81	13.34	33.787	3.59	-	-	-	258.1	100	11.99	33.929	2.80	25.78	222.5	.330			
101	11.92	33.933	2.78	-	-	-	221.0	125	11.55	34.153	1.79	26.04	198.2	.383			
126	11.52	34.158	1.77	-	-	-	197.3	150	10.13	34.050	2.69	26.21	181.8	.431			
146	10.15	34.035	2.75	-	-	-	183.2	200	9.85	34.341	1.15	26.48	155.7	.518			
176	10.00	34.231	1.72	-	-	-	166.3	250	9.71	34.516	.39	26.64	140.6	.594			
205	9.83	34.362	1.05	-	-	-	153.8	300	8.91	34.457	.36	26.73	132.5	.665			
235	9.94	34.518	.41	-	-	-	144.1	400	7.99	34.465	.25	26.88	118.4	.797			
274	9.24	34.474	.36	-	-	-	136.3	500	6.99	34.436	.26	27.00	106.9	.917			
334	8.57	34.447	.37	-	-	-	128.2										
408	7.92	34.465	.23	-	-	-	117.4										
483	7.14	34.446	.26	-	-	-	108.2										
561	6.55	-	.23	-	-	-	-										

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	CD			
130.60								CALCOFI CRUISE 6612								130.60	
ALEXANDER AGASSIZ, DECEMBER 18 1966, 0715 GMT, 25 29N 115 21.5W, SOUNDING 2050 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.																	
0	19.73	33.938	5.33	-	-	-	387.8	0	19.73	33.938	5.33	24.04	387.8	0			
10	19.71	33.936	5.37	-	-	-	387.5	10	19.71	33.936	5.37	24.05	387.5	.039			
20	19.72K	-	-	-	-	-	-	20	19.72	33.954	5.36	24.06	386.4	.078			
30	19.76	33.950	5.34	-	-	-	387.7	30	19.76	33.950	5.34	24.04	387.7	.116			
55	13.80	33.692	4.38	-	-	-	274.0	50	15.12	33.717	4.76	24.98	298.8	.185			
65	12.93	33.858	2.98	-	-	-	245.1	75	12.20	33.962	1.47	25.77	223.9	.251			
75	12.20	33.962	1.47	-	-	-	223.9	100	11.57	34.148	1.85	26.03	198.8	.304			
91	11.72	34.052	2.09	-	-	-	208.6	125	10.85	34.230	1.60	26.22	180.4	.352			
105	11.48	34.198	1.66	-	-	-	193.6	150	9.79	34.200	1.87	26.38	165.1	.396			
125	10.85K	34.23 G	-	-	-	-	180.4	200	9.94	34.452	.89	26.55	149.0	.477			
130	10.59	34.254	1.61	-	-	-	174.3	250	9.75	34.511	.35	26.63	141.5	.552			
151	9.76	34.196	1.89	-	-	-	165.0	300	9.11	34.484	.32	26.72	133.6	.623			
176	9.83	34.340	2.27	-	-	-	155.5	400	7.74	34.408	.38	26.87	119.2	.756			
206	9.96	34.473	.51	-	-	-	147.7	500	6.97	34.445	.21	27.01	106.0	.876			
236	9.86	34.506	.39	-	-	-	143.7										
276	9.46	34.506	.30	-	-	-	137.3										
336	8.55	34.443	.37	-	-	-	128.2										
411	7.62	34.406	.38	-	-	-	117.7										
486	7.08	34.445	.23	-	-	-	107.5										
566	6.40	34.446	.14	-	-	-	98.6										

133.25							CALCOFI CRUISE 6612							133.25		
ALEXANDER AGASSIZ, DECEMBER 18 1966, 2345 GMT, 26 05N 112 48.5W, SOUNDING 47 FM, WIND 360 FORCE 1, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.																
0	19.72	34.013	5.36	-	-	-	382.1	0	19.72	34.013	5.36	24.10	382.1	0		
10	19.44	34.013	5.45	-	-	-	375.2	10	19.44	34.013	5.45	24.18	375.2	.038		
20	19.46	34.014	5.36	-	-	-	375.6	20	19.46	34.014	5.36	24.17	375.6	.075		
30	19.42	34.014	5.39	-	-	-	374.7	30	19.42	34.014	5.39	24.18	374.7	.113		
50	15.26	33.777	4.26	-	-	-	297.4	50	15.26	33.777	4.26	24.99	297.4	.181		
75	13.90	33.978	2.56	-	-	-	255.0	75	13.90	33.978	2.56	25.44	255.0	.250		

133.30							CALCOFI CRUISE 6612							133.30		
ALEXANDER AGASSIZ, DECEMBER 18 1966, 2110 GMT, 25 55N 113 07W, SOUNDING 106 FM, WIND 160 FORCE 2, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.																
0	19.95	33.971	5.37	-	-	-	390.9	0	19.95	33.971	5.37	24.01	390.9	0		
10	19.16	33.959	5.42	-	-	-	372.3	10	19.16	33.959	5.42	24.21	372.3	.038		
30	18.65	33.913	5.44	-	-	-	363.4	20	18.83	33.939	5.57	24.28	365.7	.075		
40	16.18	33.778	4.60	-	-	-	316.9	30	18.65	33.913	5.44	24.30	363.4	.112		
55	13.96	33.673	4.54	-	-	-	278.5	50	14.50	33.692	4.57	25.09	288.0	.177		
70	13.48	33.731	4.27	-	-	-	264.9	75	13.28	33.871	3.46	25.48	250.8	.245		
80	13.10	34.018	2.61	-	-	-	236.5	100	12.92	34.114	2.28	25.74	226.1	.305		
105	12.87	34.137	2.19	-	-	-	223.4	125	12.39	34.250	1.55	25.95	206.1	.360		
130	12.32	34.282	1.39	-	-	-	202.5	150	12.28	34.425	.74	26.11	191.2	.410		
155	12.32	34.464	.57	-	-	-	189.2									

133.40								CALCOFI CRUISE 6612								133.40			
ALEXANDER AGASSIZ, DECEMBER 18 1966, 1624 GMT, 25 37.5N 113 44.5W, SOUNDING 1262 FM, WIND 340 FORCE 3, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 08.																			
0	19.86	33.982	5.25	-	-	-	387.8	0	19.86	33.982	5.25	24.04	387.8	0					
10	19.80	34.015	5.26	-	-	-	384.0	10	19.80	34.015	5.26	24.08	384.0	.039					
30	19.62	33.988	5.32	-	-	-	381.5	20	19.72	34.010	5.28	24.10	382.3	.077					
40	18.34	33.799	5.41	-	-	-	364.3	30	19.62	33.988	5.32	24.11	381.5	.115					
49	16.14	33.575	5.43	-	-	-	330.9	50	15.99	33.569	5.42	24.67	328.2	.186					
64	14.68	33.592	5.17	-	-	-	298.9	75	13.81	33.598	4.83	25.16	281.1	.263					
79	13.54	33.606	4.68	-	-	-	275.2	100	12.39	33.747	3.66	25.56	243.1	.329					
98	12.54	33.739	3.70	-	-	-	246.5	125	11.04	33.916	3.01	25.94	206.8	.386					
123	11.04	33.887	3.14	-	-	-	209.0	150	11.26	34.246	1.57	26.16	186.2	.436					
143	11.28	34.187	1.82	-	-	-	191.0	200	11.39	34.602	.36	26.41	162.2	.525					
173	11.14	34.389	1.05	-	-	-	173.6	250	10.72	34.617	.20	26.55	149.6	.606					
202	11.40	34.615	.32	-	-	-	161.5	300	9.86	34.542	.27	26.64	141.1	.681					
231	10.90	34.620	.24	-	-	-	152.5	400	8.28	34.459	.26	26.83	122.9	.820					
271	10.51	34.612	.19	-	-	-	146.5	500	7.33	34.460	.18	26.97	109.7	.944					
330	9.15	34.466	.36	-	-	-	135.5												
404	8.24	34.459	.25	-	-	-	122.5												
479	7.51	34.457	.19	-	-	-	112.4												
558	6.90	34.475	.16	-	-	-	102.9												

137.23							CALCOFI CRUISE 6612							137.23		
ALEXANDER AGASSIZ, DECEMBER 19 1966, 0518 GMT, 25 34.5N 112 19W, SOUNDING 43 FM, WIND 340 FORCE 1, WEATHER PARTLY CLOUDY, SEA SLIGHT, WIRE ANGLE 06.																
0	19.75	33.994	5.31	-	-	-	384.2	0	19.75	33.994	5.31	24.08	384.2	0		
10	19.73	33.990	5.35	-	-	-	384.0	10	19.73	33.990	5.35	24.08	384.0	.038		
20	19.68	33.985	5.39	-	-	-	383.2	20	19.68	33.985	5.39	24.09	383.2	.077		
30	18.41	33.865	5.45	-	-	-	361.2	30	18.41	33.865	5.45	24.32	361.2	.114		
50	16.85	33.779	4.98	-	-	-	331.6	50	16.85	33.779	4.98	24.63	331.6	.184		
75	15.44	-	-	-	-	-	-	75	15.44	-	-	-	-	-		

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	RHO	SIL	NIT	U*T	Z	T	S	OXY	SIG* $\bar{T}$	U*T	DD		
137.30							CALCOFI CRUISE 6612								137.30	
ALEXANDER AGASSIZ, DECEMBER 19 1966, 0814 GMT, 25 22N 112 47.5W, SOUNDING 130 FM, WIND 340 FORCE 1, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.																
0	20.16	34.033	5.29	-	-	-	391.6	0	20.16	34.033	5.29	24.00	391.6	0		
10	20.10	34.022	5.32	-	-	-	390.9	10	20.10	34.022	5.32	24.01	390.9	.039		
30	19.88	33.995	5.33	-	-	-	387.4	20	20.00	34.009	5.33	24.03	389.4	.078		
45	17.40	33.666	5.78	-	-	-	352.2	30	19.88	33.995	5.33	24.05	387.4	.117		
55	16.10	33.572	5.74	-	-	-	330.2	50	16.70	33.605	5.78	24.53	341.0	.190		
70	15.06	33.658	4.98	-	-	-	301.9	75	14.67	33.712	4.61	25.07	289.9	.270		
85	13.95	33.829	3.85	-	-	-	266.9	100	13.30	33.968	2.97	25.55	243.9	.337		
105	13.16	34.010	2.72	-	-	-	238.3	125	12.95	34.171	1.90	25.78	222.6	.396		
130	12.90	34.205	1.75	-	-	-	219.0	150	12.60	34.305	1.39	25.95	206.0	.450		
150	12.60	34.305	1.39	-	-	-	206.0	200	11.63	34.519	.52	26.30	172.7	.547		
180	11.84	34.450	.85	-	-	-	181.5									
205	11.62	34.533	.44	-	-	-	171.4									

137.40	CALCOFI CRUISE 6612												137.40	
ALEXANDER AGASSIZ, DECEMBER 19 1966, 1345 GMT, 25 03.5N 113 24W, SOUNDING 1350 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 02.														
0	19.86	34.009	5.33	-	-	-	385.9	0	19.86	34.009	5.33	24.06	385.9	0
10	19.85	34.015	5.47	-	-	-	385.2	10	19.85	34.015	5.47	24.07	385.2	.039
30	19.84	34.005	5.28	-	-	-	385.7	20	19.84	34.012	5.36	24.07	385.3	.077
41	17.86	33.740	5.57	-	-	-	357.4	30	19.84	34.005	5.28	24.07	385.7	.116
51	15.88	33.655	5.57	-	-	-	319.4	50	16.06	33.659	5.58	24.72	323.0	.187
66	14.78	33.608	5.29	-	-	-	299.8	75	14.07	33.673	4.67	25.17	280.7	.263
81	13.62	33.735	4.19	-	-	-	267.3	100	12.59	33.910	3.11	25.65	234.8	.328
101	12.54	33.919	3.06	-	-	-	233.3	125	11.48	34.071	2.27	25.98	203.0	.383
126	11.45	34.076	2.25	-	-	-	202.1	150	11.32	34.225	1.70	26.13	188.9	.433
146	11.34	34.197	1.79	-	-	-	191.3	200	11.01	34.466	.80	26.38	165.8	.524
176	11.20	34.388	1.20	-	-	-	174.8	250	10.53	34.542	.55	26.52	152.1	.606
206	10.96	34.479	.73	-	-	-	163.9	300	9.86	34.533	.33	26.63	141.8	.682
236	10.65	34.528	.66	-	-	-	155.0	400	8.37	34.468	.23	26.82	123.6	.822
277	10.27	34.552	.34	-	-	-	146.9	500	6.91	34.403	.28	26.98	108.4	.945
337	9.16	34.490	.31	-	-	-	133.9							
412	8.23	34.465	.22	-	-	-	121.9							
487	7.08	34.406	.28	-	-	-	110.4							
567	6.19	34.421	.24	-	-	-	97.9							

DATA AT NET TOW STATIONS										10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Force	Weather	Sea	T °C	S ‰	δ _T cl/ton
60.50-J	XII-16	1745	37°57.5'	122°53.5'	25	040°	3	partly cloudy	slight	13.09	33.106	303
60.55-J	16	2057	37°47.0'	123°15.0'	55	080°	2	cloudy	very rough	13.30	32.974	317
63.50-J	16	1345	37°23.5'	122°28.0'	15	040°	1	clear	slight	13.24	33.251	296
67.48-J	14	1250	36°53.0'	121°56.0'	20	-	2	clear	missing	13.60	32.877	330
70.51-J	14	0808	36°11.5'	121°44.0'	74	090°	1	missing	slight	13.08	33.382	283
73.50-J	12	1515	35°37.0'	121°17.0'	55	230°	1	partly cloudy	moderate	14.02	33.319	306
77.48-J	12	1120	33°08.5'	120°43.5'	13	060°	1	partly cloudy	smooth	13.04	33.439	278
80.51-J	10	1730	34°26.0'	120°32.5'	55	310°	4	partly cloudy	slight	13.88	33.391	298
80.65-J	11	0215	33°59.0'	121°30.0'	1850	330°	4	fog	moderate	14.40	33.112	328
83.40-J	10	1030	34°14.0'	119°22.0'	12	020°	1	clear	smooth	14.34	33.344	310
83.65-J	9	2105	33°24.0'	121°06.0'	1970	330°	4	partly cloudy	rough	15.60	33.215	346
87.33-J	8	0205	33°54.0'	118°29.5'	27	350°	3	missing	moderate	15.77a)	33.333	340a)
87.55-J	8	1720	33°14.0'	120°00.0'	500	310°	7	clear	high	15.33	33.495	320
87.65-J	9	0030	32°49.5'	120°41.5'	2050	330°	6	partly cloudy	very rough	15.60	33.132	352
90.65-J	6	1226	32°14.5'	120°18.0'	1900	220°	5	overcast	rough	16.38	33.229	361
93.27-J	2	0247	32°56.0'	117°19.0'	60	calm		missing	moderate	15.30	33.434	323
93.35-J	2	0838	32°41.0'	117°51.0'	360	260°	1	drizzle	moderate	16.78	33.521	349

a) Alternate values: 16.02°C; 346 cl/ton.

Station	Date	Time GCT	DATA AT NET TOW STATIONS						Sea	10 METERS		
			Latitude North	Longitude West	Sounding (fm)	Wind Dir	Force	Weather		T °C	S ‰	δ_T cl/ton
93.45-J	XII-2	1435	32°17.0'	118°38.0'	930	calm		drizzle	rough	16.87	33.359	363
93.55-J	2	1900	31°56.0'	119°10.0'	950	260°	1	overcast	rough	16.84	33.624	343
93.65-J	3	0155	31°41.0'	119°55.0'	2100	220°	3	missing	rough	16.21a)	33.348	349a)
97.29-G	XII-3	0115	32°17.5'	117°05.0'	-	-	-	missing	missing	13.36	33.437	284
97.30-G	3	0135	32°16.0'	117°07.5'	-	-	-	missing	missing	13.64	33.420	291
97.32-G	3	0245	32°12.0'	117°15.5'	730	260°	2	missing	missing	15.84	33.458	333
97.45-G	3	1155	31°45.0'	118°08.0'	580	220°	3	overcast	moderate	17.46	33.396	373
97.55-G	3	1815	31°24.0'	118°49.0'	697	220°	4	cloudy	rough	17.72	33.488	372
97.65-G	4	0130	31°10.0'	119°30.0'	2045	240°	4	overcast	very rough	18.51	33.623	381
100.29-G	5	2208	31°42.0'	116°43.5'	-	-	-	missing	missing	14.78	33.387	316
100.45-G	5	1156	31°06.0'	117°44.5'	660	220°	4	overcast	rough	17.52	33.437	372
100.55-G	5	0542	30°47.0'	118°27.0'	1360	220°	4	missing	rough	18.02a)	33.534	376b)
100.65-G	4	2335	30°29.5'	119°07.0'	1918	230°	4	overcast	very rough	17.94	33.546	373
103.29-G	6	0245	31°07.5'	116°21.5'	17	170°	4	drizzle	moderate	14.59	33.395	312
103.45-G	6	1245	30°37.0'	117°24.5'	1125	220°	3	drizzle	slight	16.73	33.508	348
103.55-G	6	1850	30°16.0'	118°05.0'	1160	240°	4	drizzle	very rough	17.63	33.453	373

a) Alternate values: 16.08°C; 346 cl/ton.

b) Alternate values: 18.22°C; 380 cl/ton.

Station	Date	Time GCT	DATA AT NET TOW STATIONS							10 METERS		
			Latitude North	Longitude West	Sounding (fm)	Wind Dir Force		Weather	Sea	T °C	S ‰	δ_T cl/ton
103.65-G	7	0130	29°56.0'	118°45.0'	1650	240°	4	partly cloudy	very rough	17.84	33.498	375
107.31-G	9	0130	30°28.0'	116°07.0'	220	320°	4	partly cloudy	very rough	15.24	33.414	324
107.45-G	8	1420	29°59.0'	117°01.0'	830	330°	6	partly cloudy	high	17.66	33.506	370
107.55-G	8	0749	29°42.0'	117°41.5'	1684	330°	6	partly cloudy	high	18.21	33.636	374
107.65-G	XII-8	0115	29°21.5'	118°21.5'	1520	340°	5	cloudy	very rough	18.27	33.639	374
110.32-G	9	0518	29°52.0'	115°48.5'	-	-	-	missing	missing	14.53	33.432	307
110.45-G	9	1348	29°26.5'	116°36.0'	425	010°	3	cloudy	rough	17.30	33.451	365
110.55-G	9	1835	29°06.0'	117°18.0'	2260	020°	3	cloudy	rough	17.96	33.631	368
110.65-G	10	0010	28°46.0'	117°58.0'	1910	360°	3	partly cloudy	rough	18.43	33.691	374
113.29-G	11	1745	29°24.0'	115°13.5'	-	-	-	missing	missing	14.64	33.447	309
113.45-G	11	0820	28°51.0'	116°16.0'	940	340°	3	clear	moderate	15.99	33.467	336
113.55-G	11	0225	28°33.0'	116°57.5'	1790	350°	5	clear	moderate	18.32	33.654	374
113.65-G	10	2045	28°12.0'	117°35.5'	1602	-	4	partly cloudy	moderate	18.30	33.636	376
117.25-G	11	2217	28°58.0'	114°36.5'	13	020°	3	clear	slight	16.00	33.470	336
117.26-G	11	2310	28°56.0'	114°41.5'	38	010°	4	partly cloudy	moderate	16.96	33.561	350
117.45-G	13	2055	28°18.0'	115°56.0'	2125	340°	3	partly cloudy	rough	17.58	33.467	371
117.55-G	14	0215	28°00.0'	116°35.5'	2725	060°	4	clear	moderate	17.54	33.792	347
117.65-G	14	0715	27°42.0'	117°12.0'	1880	010°	3	clear	very rough	19.00	33.802	380
120.24-G	12	0525	28°23.0'	114°11.5'	20	350°	6	clear	moderate	15.93	33.508	331

DATA AT NET TOW STATIONS										10 METERS		
Station	Date	Time GCT	Latitude North	Longitude West	Sounding (fm)	Wind Dir	Force	Weather	Sea	T °C	S ‰	δ_T cl/ton
120.25-G	12	0602	28°22.0'	114°15.5'	27	020°	5	clear	moderate	16.82	33.572	346
120.30-G	12	1135	28°13.0'	114°34.0'	50	080°	4	clear	moderate	16.77	33.565	346
120.35-G	12	1545	28°02.0'	114°54.0'	45	010°	3	partly cloudy	moderate	16.80	33.553	347
120.40-G	12	1753	27°56.5'	115°14.0'	22	020°	3	partly cloudy	very rough	16.82	33.559	347
120.55-G	XII-15	0855	27°21.5'	116°11.0'	2040	350°	4	clear	rough	18.54	33.707	376
120.65-G	15	0317	27°02.5'	116°49.5'	2070	020°	5	clear	very rough	19.72	33.911	389
123.36-G	15	2015	27°26.0'	114°36.0'	28	190°	2	clear	rough	17.58	33.836	344
123.45-G	16	0119	27°08.0'	115°12.0'	2235	320°	3	clear	rough	18.34	33.691	372
123.55-G	16	0630	26°47.5'	115°49.0'	2075	340°	3	clear	very rough	19.02	33.791	381
127.33-G	17	1030	26°57.5'	114°02.5'	35	350°	3	clear	moderate	18.46	33.930	357
127.45-G	17	0315	26°34.0'	114°49.0'	1810	350°	4	clear	very rough	20.07	33.994	392
127.55-G	16	1755	26°14.0'	115°27.0'	1925	350°	2	clear	very rough	18.32	33.712	370
130.28-G	17	1525	26°33.0'	113°20.0'	30	010°	4	overcast	moderate	18.42	33.942	356
130.35-G	17	1840	26°17.0'	113°48.5'	360	090°	3	overcast	very rough	20.09	33.965	395
130.45-G	17	2357	25°57.5'	114°26.0'	1650	270°	2	cloudy	moderate	20.82	34.000	411
130.55-G	18	0450	25°38.0'	115°04.0'	1960	340°	3	clear	very rough	19.78	33.940	389
133.23-G	19	0050	26°07.5'	112°41.0'	-	-	-	missing	missing	19.48	34.010	377
133.35-G	18	1825	25°43.5'	113°30.0'	850	360°	3	clear	high	19.43	34.010	376
137.35-G	19	1043	25°13.0'	113°05.5'	485	310°	2	clear	slight	20.10	34.014	391

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