

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 6801
7-26 January 1968

CalCOFI Cruise 6804
23 April - 6 May 1968

and

CalCOFI Cruise 6806
31 May - 22 June 1968

SIO Reference 71-3

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Sponsored by

Marine Research Committee

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Approved for distribution:

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

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INTRODUCTION

The data in this report were collected on Cruises 6801, 6804 and 6806 of the California Cooperative Fisheries Investigations (CalCOFI) program by the RV David Starr Jordan of the Bureau of Commercial Fisheries (now National Marine Fisheries Service) and the RV Horizon of the Scripps Institution of Oceanography. The first two digits in this cruise-numbering system represent the year of the cruise; the last two digits, the month. The cruises preceding these in the series are 6610, 6612 and Special Cruise 6611 all of which appear in SIO Ref. 69-2; and 6707 and 6712, both of which appear in SIO Ref. 69-8.

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

TABULATED DATA

Data for all cruises presented in this report were obtained by bottle casts and by the in situ Salinity/Temperature/Depth Monitoring and Recording System (STD) and appear in two forms:

1. Data from the sample bottle casts are tabulated with the observed levels of depth on the left of a page and standard levels of depth values interpolated and computed from these observations to the right.
2. For each STD lowering, temperature and salinity values are read only at standard levels of depth and appear with the same computed values as the sample bottle data on the right of the page. Corrections may have been applied to the temperature or salinity values or to both from continuing comparison of sample bottle data and STD data collected on the same station.

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	Nitrate	µg at/L
D*T	δ_T	cl/ton
SIG*T	σ_t	g/L
DD	ΔD	dyn. m

Tabulations of the nitrite values follow the computer tabulations of other data for Cruises 6804 and 6806. No nutrient samples were collected on Cruise 6801.

STANDARD PROCEDURES

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 $\pm 0.01\%$.^{1/} 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.

Continuing comparison of the data from each STD lowering with the sample bottle observations for the corresponding location resulted in the following corrections being applied to the STD standard depth values tabulated for each cruise:

The temperature from the bottle cast and STD recording agreed very well on Cruise 6801. However, some adjusting of the salinity occurred during the early lowerings of the STD finally resulting in a correction varying from -0.01% at the surface to -0.05% at 500 meters.

Cruise 6804 required no correction to the temperature but a correction varying from $\pm 0.00\%$ at the surface to $+0.03\%$ at 500 meters was applied to all stations.

Cruise 6806 was the first cruise on which a digital data logger was used for data tabulation from the STD. A temperature correction varying from $\pm 0.00^{\circ}\text{C}$ at the surface to -0.05°C at 600 meters and a salinity correction of $+0.01\%$ to -0.04% over the same depth range were applied to these tabulations.

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 relations to each other and comparison with concurrent STD observations and with previous or adjacent observations. The Nansen-bottle cast data are

^{1/} In situ Salinity/Temperature/Depth Monitoring and Recording System, Model 9006, Tech. Rep. No. 102, HYTECH Marine Products, The Bissett-Berman Corporation.

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

tabulated at observed depths; the values at standard depths are computer interpolations according to a modified Rattray technique,^{3/} except that some property values at standard depths have been determined from consideration of the STD recording for the station. 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). To indicate degree of accuracy, temperatures are recorded in tenths of a degree when obtained by bucket thermometer while temperatures from reversing thermometers or the STD 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."^{4/} 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.

The nutrient data for Cruises 6804 and 6806 are the first in these reports determined using the Technicon AutoAnalyzer.

On stations consisting of bottle casts only, extrapolated values and values interpolated between remote observations are not indicated but can be determined from the tabulation of observed depths. A hyphen is used to indicate a missing observed or interpolated value. The time on these stations is the time of messenger release for the bottle cast. The time listed for all STD stations is the startdown time for the lowering. When more than one bottle cast was made on station, messenger times and wire angles are given in the order of increasing depth and a significant change in position during a multiple cast is listed similarly. Multiple casts are indicated by a letter following all observed depths of each cast except the cast originating at the surface. Footnotes corresponding to each letter will 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.

^{3/}Rattray, Maurice (1962). Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

^{4/}Quotation from Department of Oceanography, University of Washington, Tech. Rep. No. 66, UW Ref. 60-18, October 1960.

FOOTNOTES

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

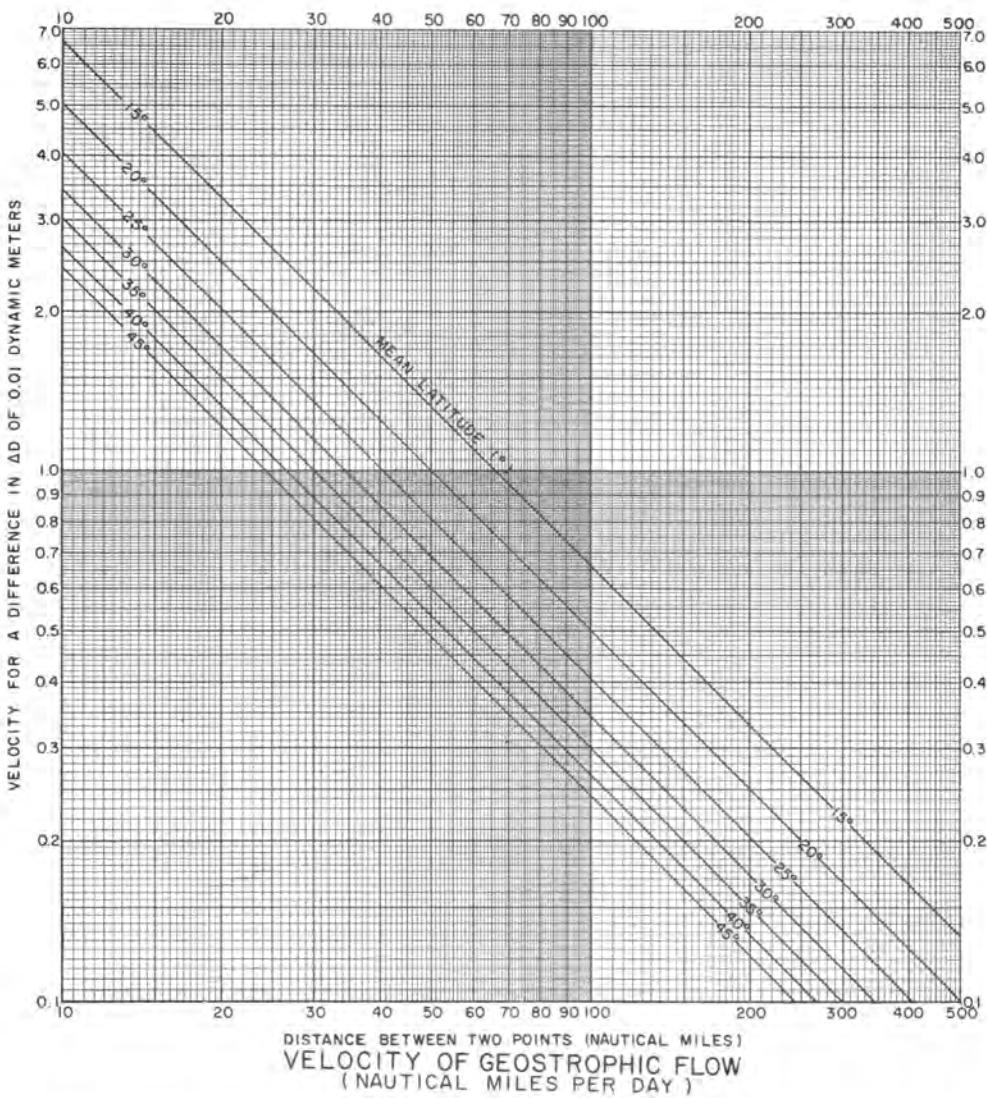
Values which are not used in interpolation because they seem to be in error without apparent reason are indicated by the following notation.

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.



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

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

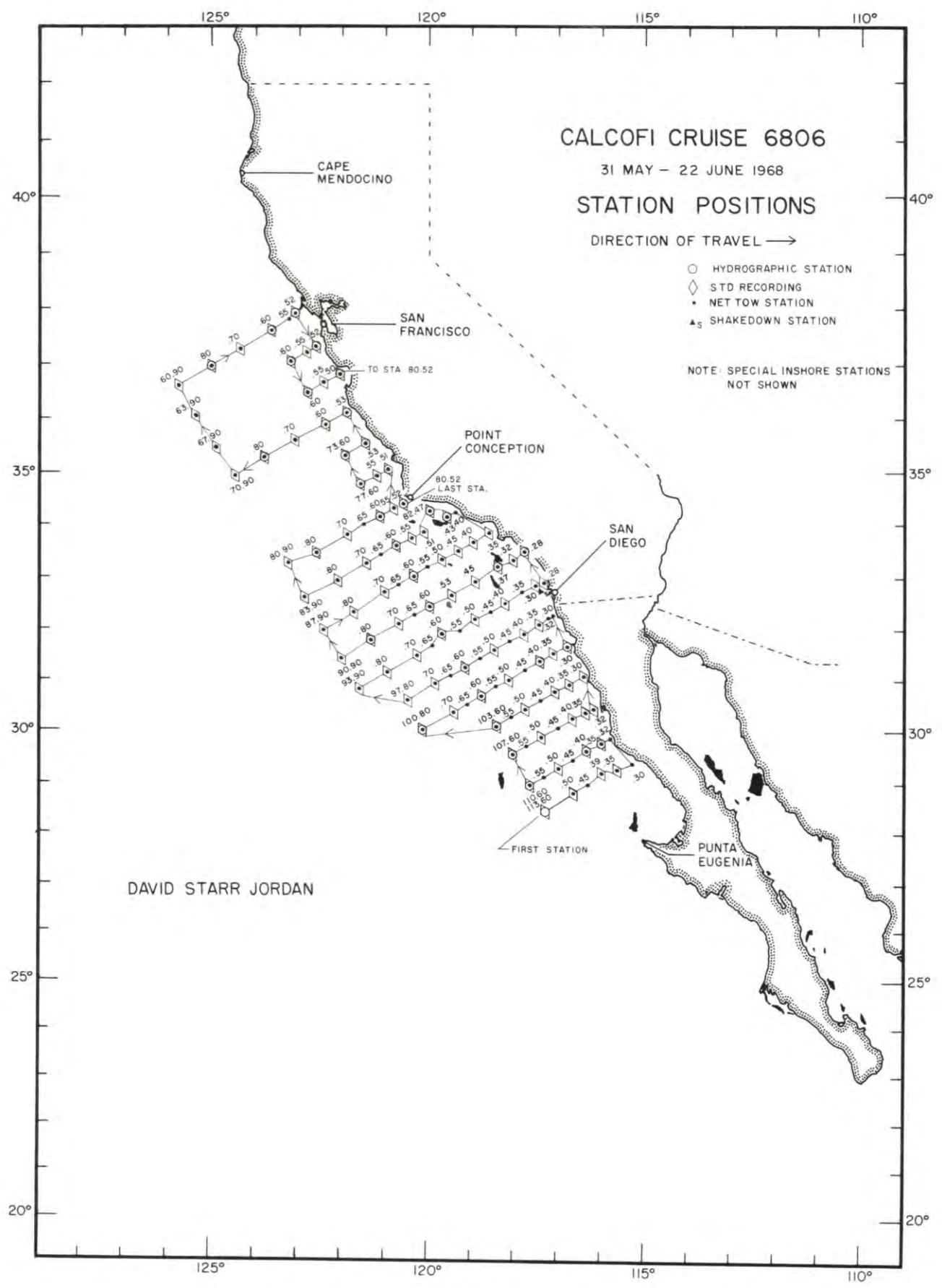
1 cm/sec = 0.019 kts = 0.466 NAUTICAL MILES / DAY

1 kts = 24 NAUTICAL MILES / DAY = 51.48 cm/sec

1 NAUTICAL MILE / DAY = 0.042 kts = 2.14 cm/sec

FIGURES
Cruise 6806

1. CalCOFI Cruise 6806, 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



DAVID STARR JORDAN

FIGURE I

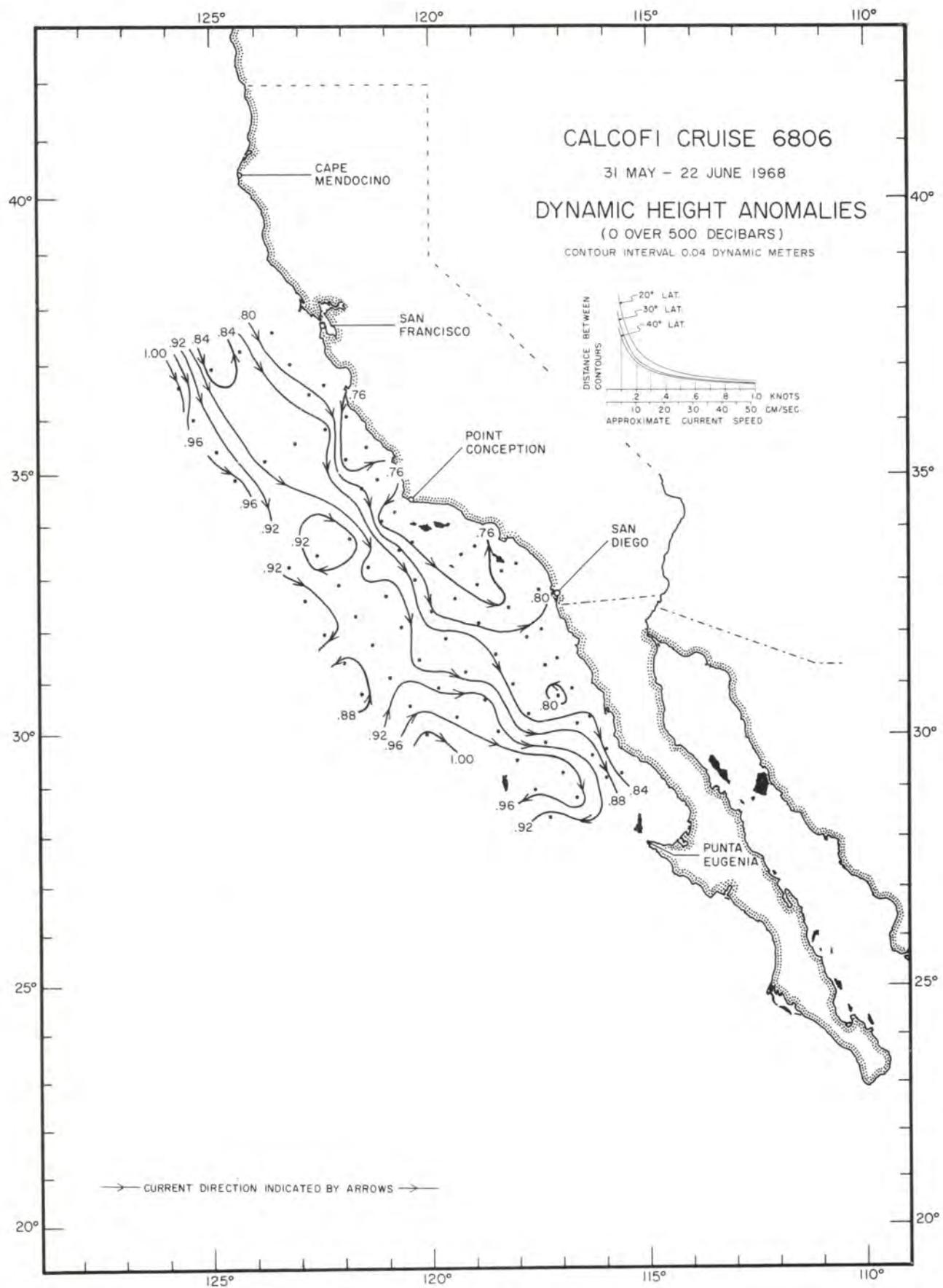


FIGURE 2

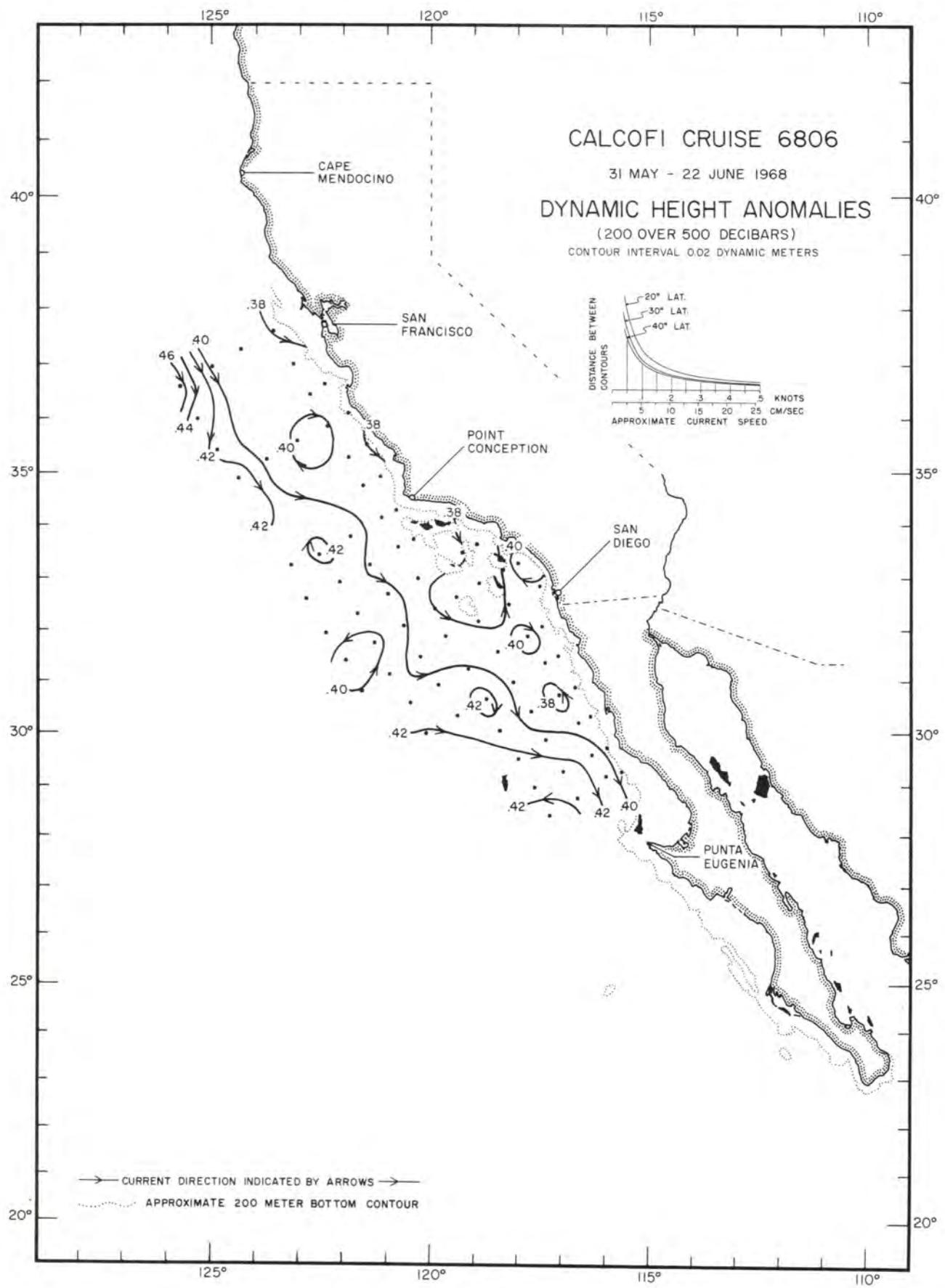


FIGURE 3

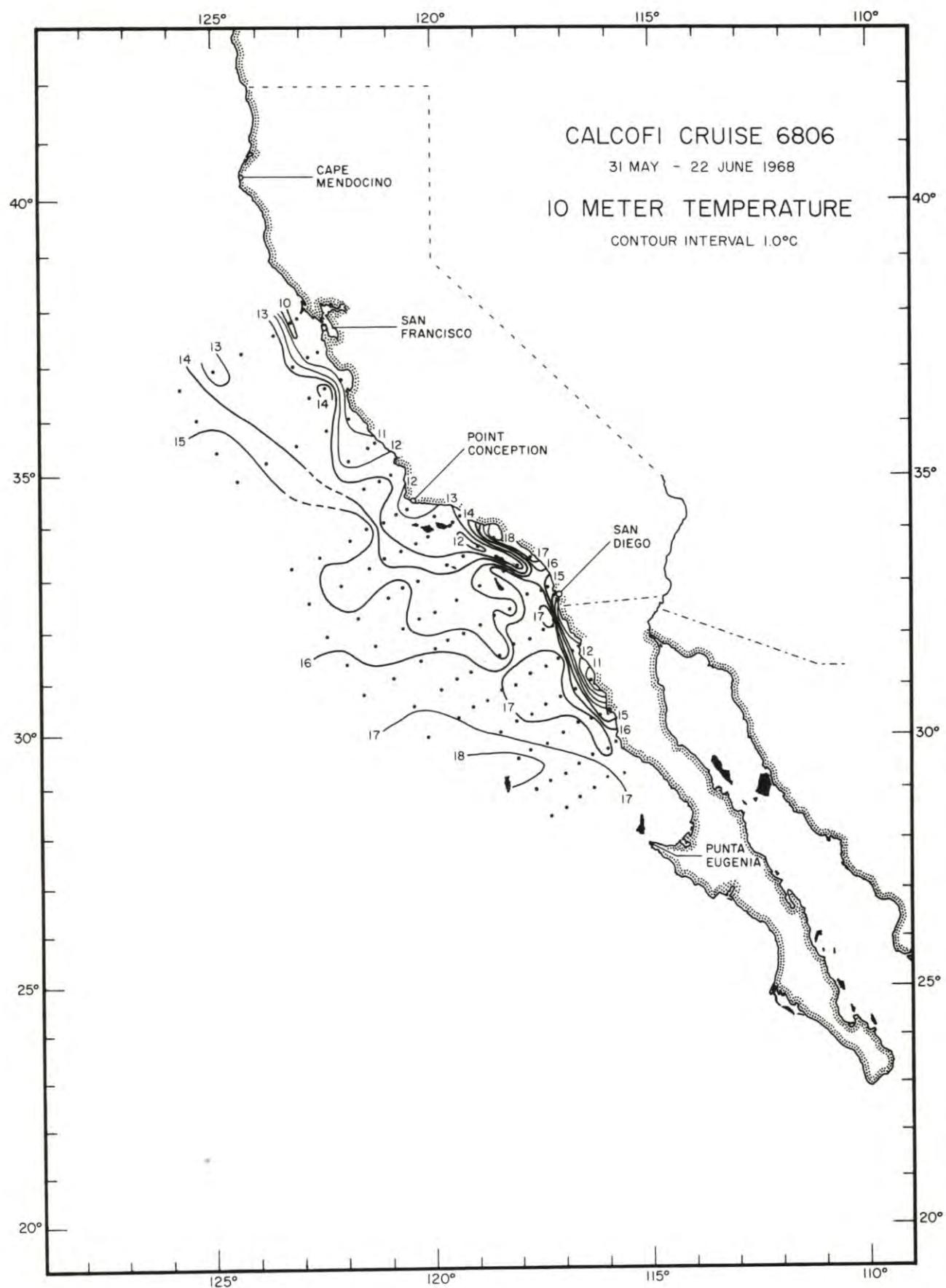


FIGURE 4

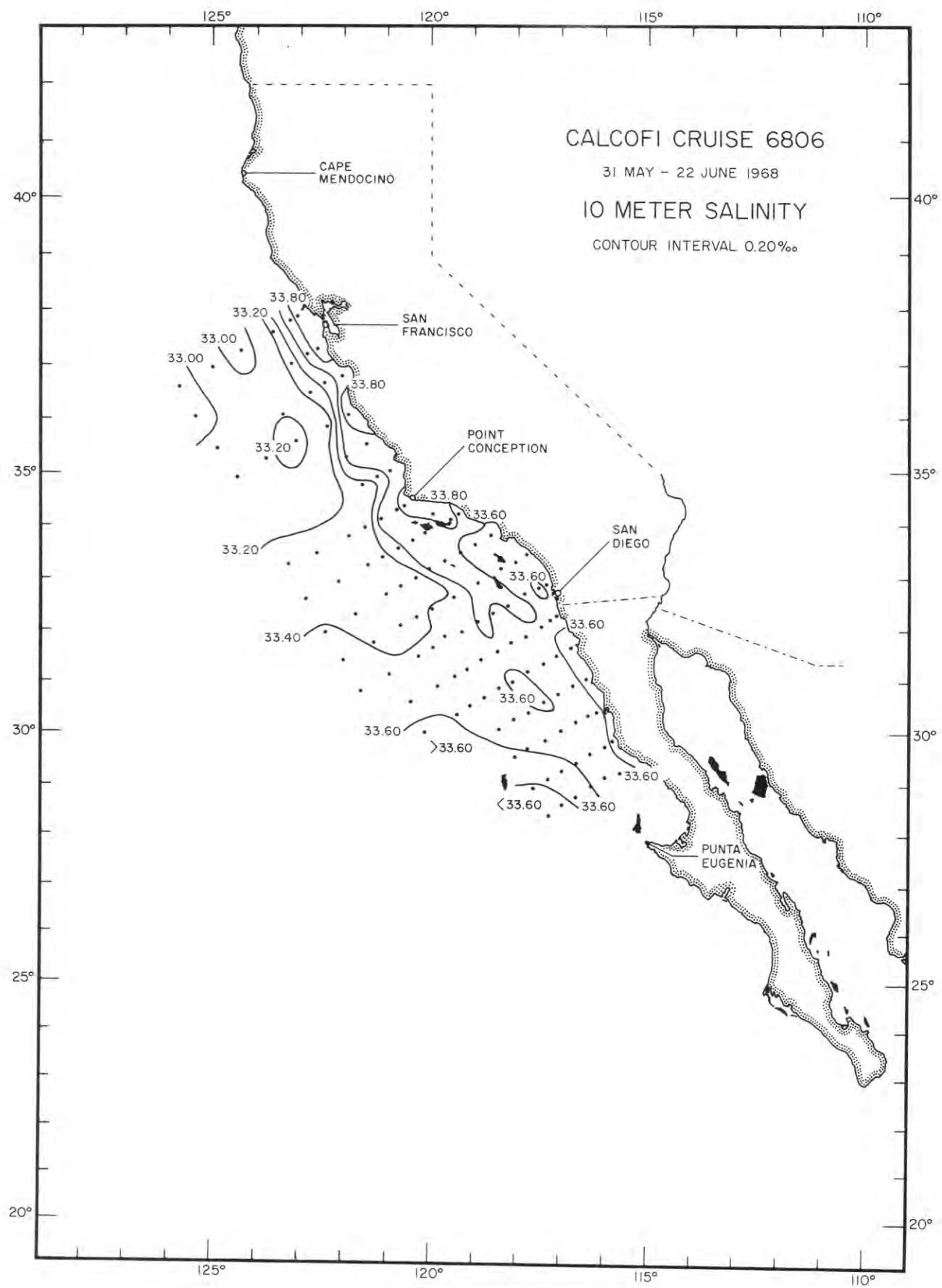


FIGURE 5

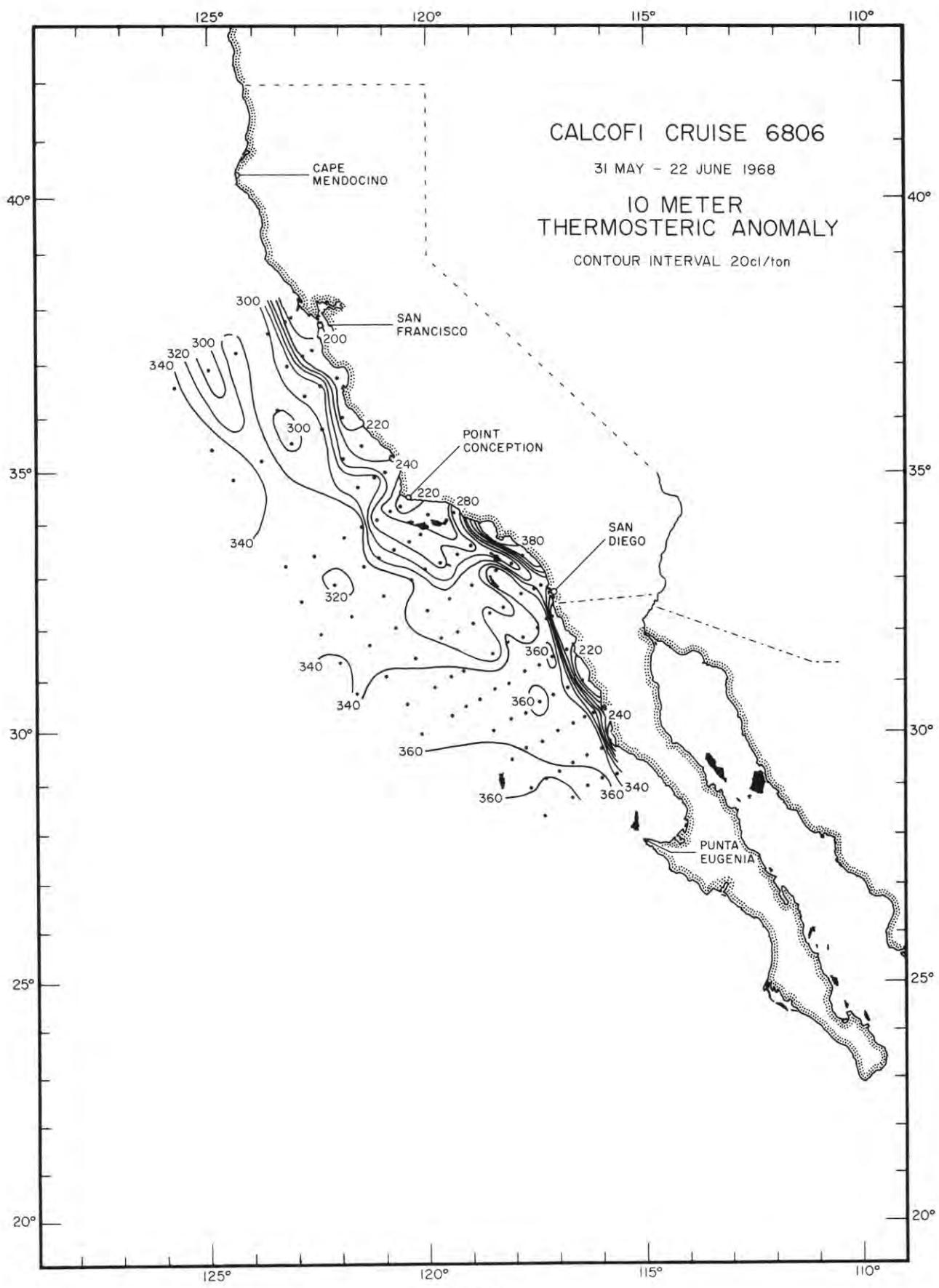


FIGURE 6

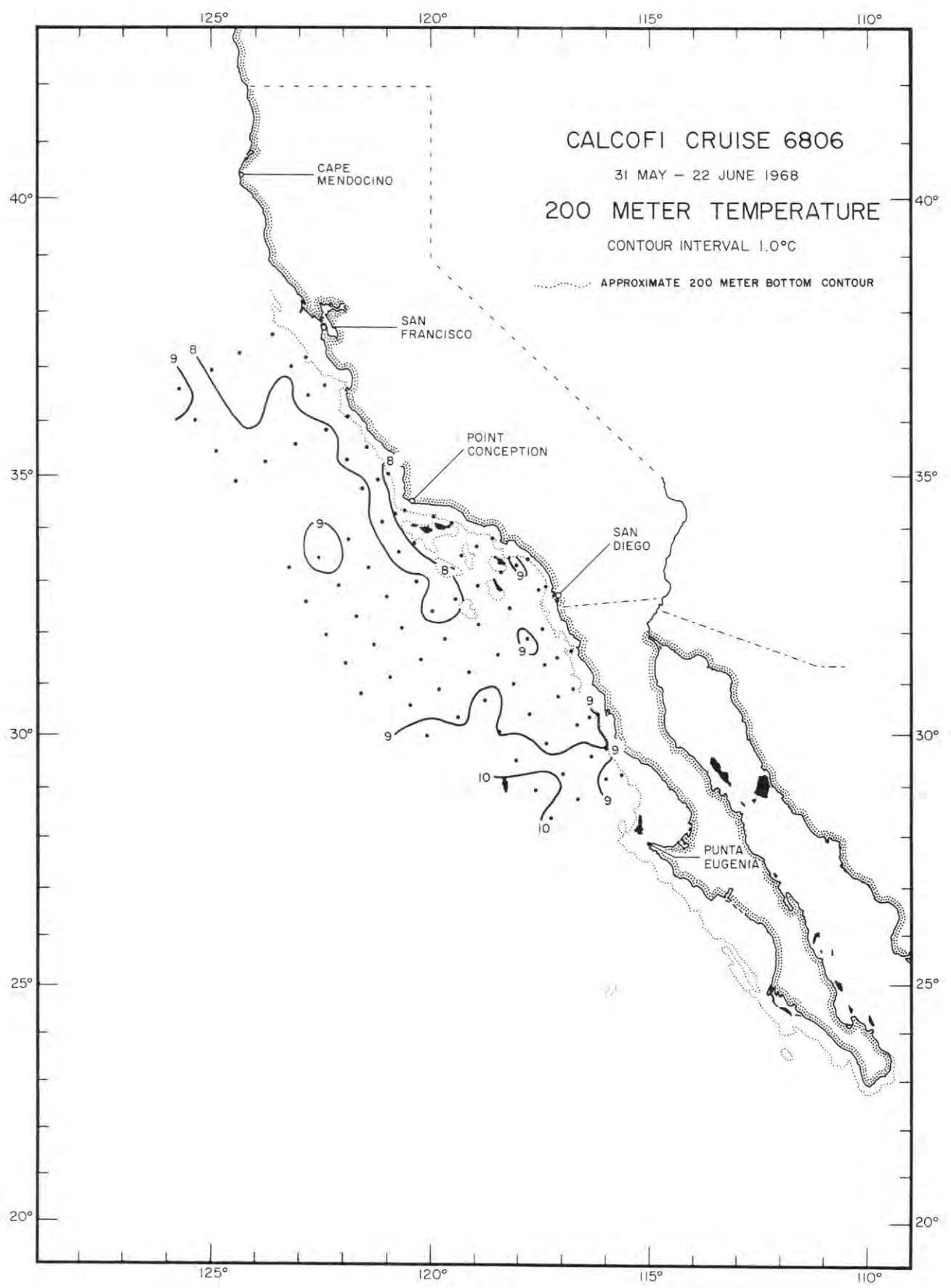


FIGURE 7

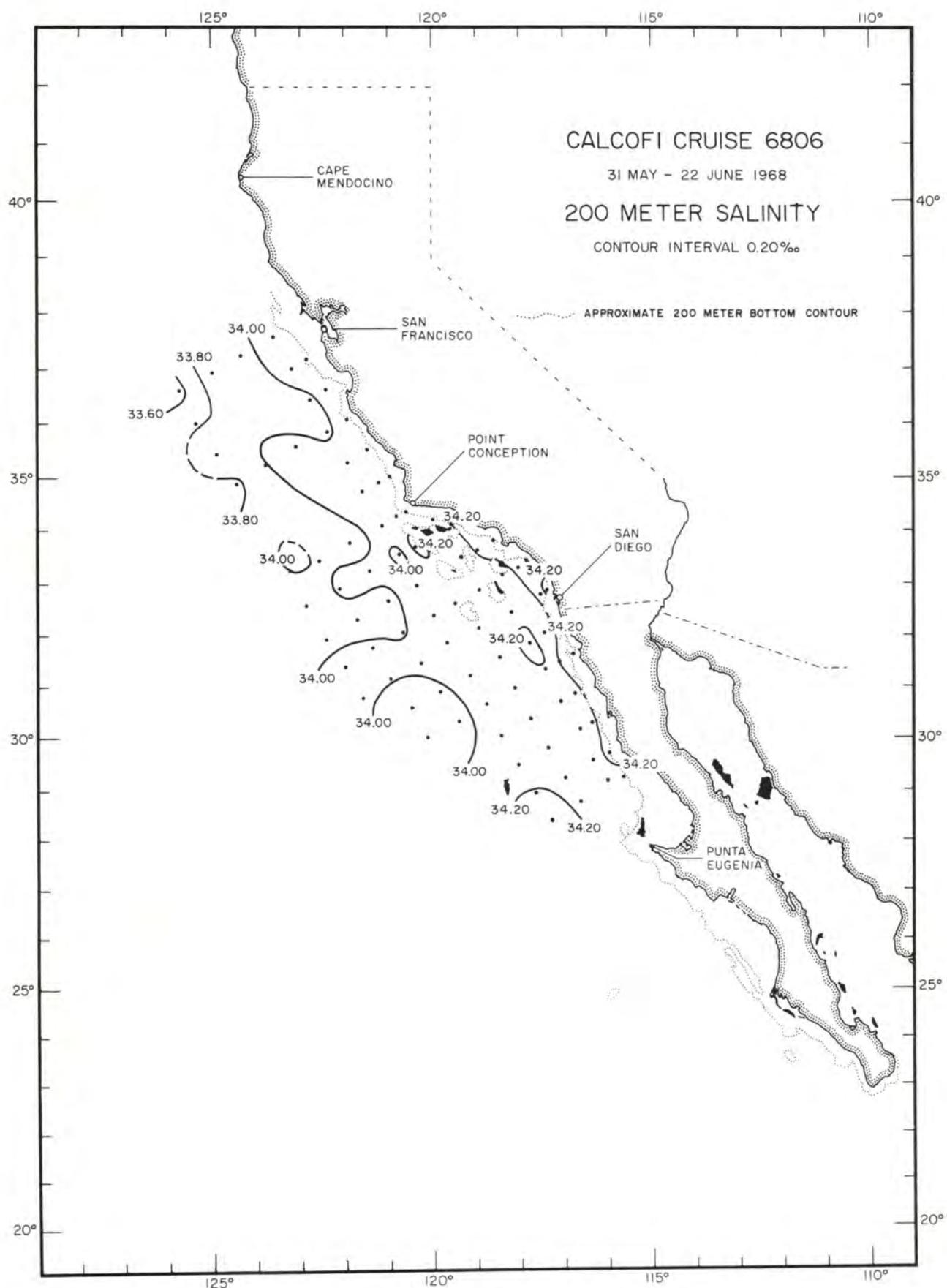


FIGURE 8

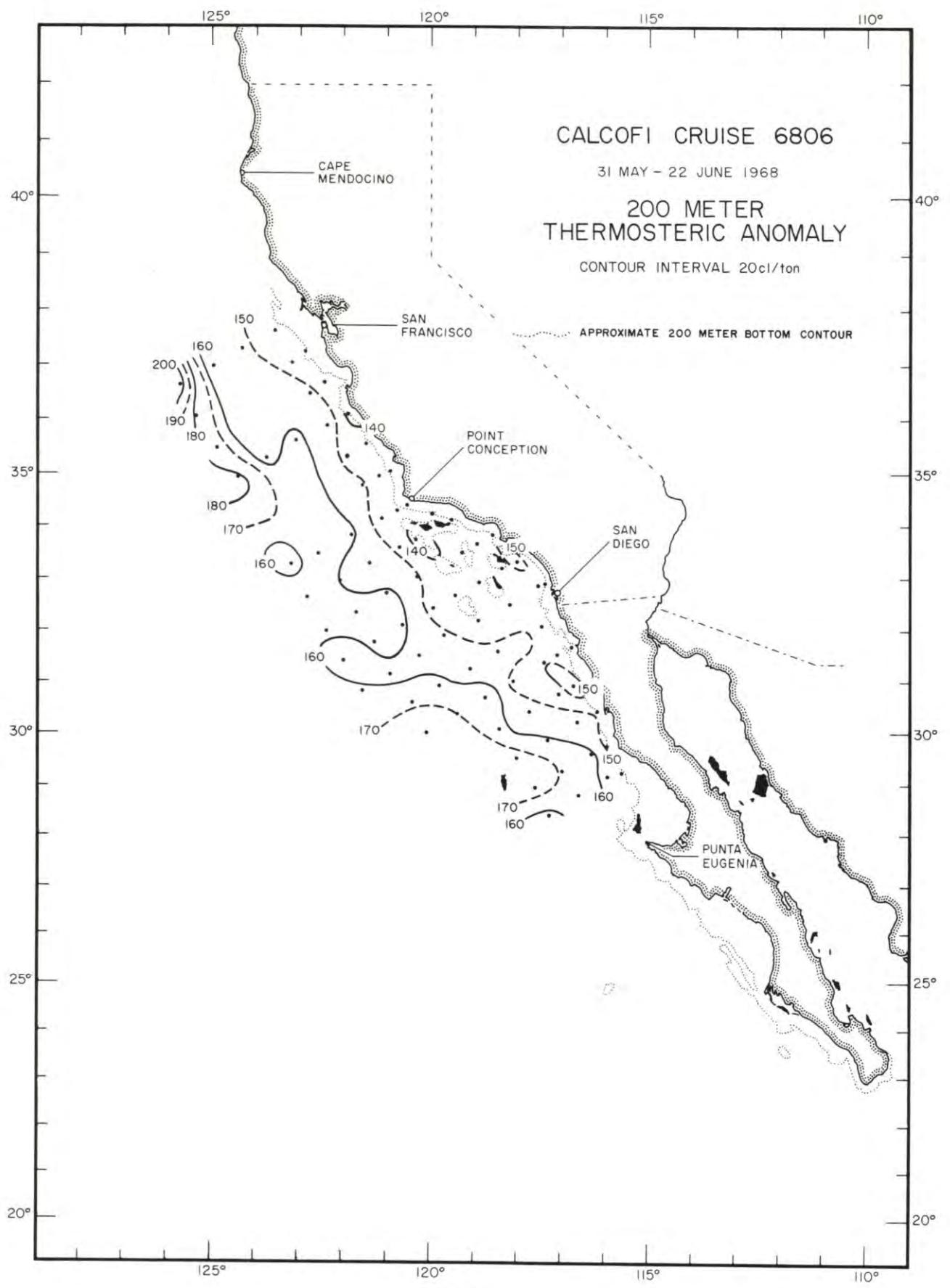


FIGURE 9

PERSONNEL
Cruise 6806

SHIP'S CAPTAIN

Forster, Charles W., RV David Starr Jordan

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV David Starr Jordan

Counts, Robert C., Fishery Biologist, Bureau of Commercial Fisheries*
(in charge)

Irani, Rustan, Marine Technician

Mauck, William W., Marine Technician

Metoyer, Jack D., Biology Technician (Fisheries), Bureau of Commercial
Fisheries*

Michel, Fred, Marine Technician

Palmer, Don H., Marine Technician

Shuey, Raymond E., Physical Science Technician, Bureau of Commercial
Fisheries*

**Smith, Paul E., Dr., Fishery Biologist (Research), Bureau of Commercial
Fisheries*

Wells, James A., Marine Technician

*Now National Marine Fisheries Service.

**San Francisco to San Diego.

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
CALCOFT CRUISE 6806														
60.52														

DAVID STARR JORDAN, JUNE 19 1968, 2333 GMT, 37 52.5N 123 04W, SOUNDING 48 FM, WIND 300 5 KNOTS, WEATHER OVERCAST, SEA MODERATE.

0	11.49	33.95	-	25.89	212.1	0
10	10.24	33.92	-	26.09	193.2	.020
20	9.61	33.97	-	26.23	179.4	.039
30	9.40	33.97	-	26.27	176.1	.057
50	8.87	34.00	-	26.38	165.8	.091
75	8.26	34.02	-	26.49	155.4	.132

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
CALCOFT CRUISE 6806														
60.52														

DAVID STARR JORDAN, JUNE 19 1968, 2351 GMT, 37 52.5N 123 04W, SOUNDING 48 FM, WIND 300 5 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 02.

0	11.71	33.969	9.95	1.31	18	6.5	214.6	0	11.71	33.969	9.95	25.86	214.6	0
10	10.38	34.009	8.07	1.61	22	14.7	188.9	10	10.38	34.009	8.07	26.13	188.9	.020
19	9.63	34.010	6.26	1.88	35	23.6	176.7	20	9.61	34.010	6.23	26.26	176.5	.038
29	9.45	34.008	5.84	2.13	36	25.5	174.1	30	9.43	34.008	5.79	26.29	173.8	.056
50	8.97	34.007	4.28	2.31	37	29.6	166.8	50	8.97	34.007	4.28	26.37	166.8	.090

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
CALCOFT CRUISE 6806														
60.60														

DAVID STARR JORDAN, JUNE 19 1968, 1804 GMT, 37 36.5N 123 38.5W, SOUNDING 1800 FM, WIND 340 12 KNOTS, WEATHER OVERCAST, SEA MODERATE.

0	13.58	33.20	-	24.90	305.8	0
10	13.55	33.21	-	24.92	304.5	.031
20	11.97	33.27	-	25.27	270.7	.059
30	10.44	33.40	-	25.65	234.9	.085
50	9.86	33.75	-	26.02	199.6	.128
75	9.51	33.82	-	26.13	188.9	.177
100	9.20	33.90	-	26.25	178.2	.223
125	8.92	33.95	-	26.33	170.3	.268
150	8.33	33.98	-	26.44	159.3	.309
200	7.61	34.05	-	26.61	144.0	.387
250	6.87	34.02	-	26.69	136.4	.459
300	6.45	34.08	-	26.79	126.6	.526
400	6.01	34.17	-	26.92	114.5	.652
500	5.13	34.18	-	27.03	103.6	.766
600	4.93	34.28	-	27.13	93.9	.871

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
CALCOFT CRUISE 6806														
60.60														

DAVID STARR JORDAN, JUNE 19 1968, 1938 GMT, 37 36.5N 123 38.5W, SOUNDING 1800 FM, WIND 340 12 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 05.

1	13.60	33.215	6.33	0.78	8	5.1	305.1	0	13.60	33.215	6.33	24.91	305.1	0
12	13.57	33.217	6.29	0.76	8	4.9	304.4	10	13.58	33.222	6.30	24.92	304.1	.030
30	10.50	33.077	6.05	0.90	8	7.2	259.8	20	12.22	33.105	6.23	25.10	287.3	.060
40	10.32	33.423	5.70	1.26	15	13.4	231.2	30	10.50	33.077	6.05	25.39	259.8	.087
54	9.84	33.768	5.28	1.75	27	22.1	198.0	50	9.98	33.693	5.39	25.96	205.8	.134
69	9.51	33.806	5.01	1.83	29	23.1	190.0	75	9.42	33.824	4.97	26.15	187.3	.184
94	9.21	33.879	4.90	1.97	33	26.0	179.9	100	9.16	33.895	4.82	26.25	178.0	.230
112	9.05	33.923	4.60	2.25	37	27.5	174.2	125	8.91	33.949	4.36	26.33	170.2	.274
132	8.81	33.961	4.14	2.15	39	29.2	167.8	150	8.45	33.990	2.94	26.43	160.4	.316
151	8.43	33.991	2.88	2.39	42	31.2	160.0	200	7.44	33.996	2.81	26.59	145.7	.394
180	7.70	33.991	3.01	2.12	42	29.6	149.7	250	6.82	34.013	2.32	26.69	136.3	.466
213	7.31	34.001	2.63	2.30	47	32.5	143.6	300	6.35	34.037	1.87	26.77	128.5	.534
243	6.90	34.011	2.38	2.42	52	33.8	137.5	400	5.88	34.146	.95	26.92	114.5	.660
291	6.42	34.030	1.97	2.59	59	37.9	130.0	500	5.17	34.206	.56	27.05	102.1	.774
344	6.05	34.079	1.37	2.79	67	40.2	121.8	600	5.02	34.319	.32	27.16	92.0	.877
426	5.77	34.174	.81	2.98	75	41.9	111.3							
509	5.13	34.213	.53	3.14	84	44.6	101.1							
590	5.03	34.304	.34	3.24	92	46.50	93.2							

OBSERVED LEVELS OF DEPTH						STANDARD LEVELS OF DEPTH								
	T	S	OXY	PHO	SIL	NIT	DAT		T	S	OXY	SIGT	DAT	DD
60.70								CALCOFI CRUISE 6806						60.70

DAVID STARR JORDAN, JUNE 19 1968, 1432 GMT, 37° 17'N 124° 21'E, SOUNDING 2150 FM, WIND 330 12 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	13.52	32.89	-	24.68	327.4	0
10	13.52	32.89	-	24.68	327.4	.033
20	11.76	32.78	-	24.93	303.1	.064
30	11.55	32.86	-	25.03	293.5	.094
50	10.81	32.96	-	25.24	273.5	.151
75	9.79	33.24	-	25.63	236.3	.215
100	9.36	33.56	-	25.95	205.9	.271
125	8.58	33.69	-	26.18	184.5	.320
150	8.54	33.91	-	26.36	167.6	.365
200	7.80	33.96	-	26.51	153.3	.446
250	7.20	34.00	-	26.63	142.2	.522
300	7.02	34.07	-	26.71	134.6	.593
400	5.79	34.08	-	26.87	118.6	.725
500	5.21	34.15	-	27.00	106.7	.843
600	4.55	34.18	-	27.10	97.4	.951

	T	S	OXY	PHO	SIL	NIT	DAT		T	S	OXY	SIGT	DAT	DD
60.80								CALCOFI CRUISE 6806						60.80

DAVID STARR JORDAN, JUNE 19 1968, 0956 GMT, 36° 57.5'N 125° 00'E, SOUNDING 2350 FM, WIND 330 18 KNOTS, WEATHER MISSING, SEA MISSING.

0	12.75	33.12	-	25.01	295.9	0
10	12.79	33.14	-	25.02	295.2	.030
20	12.82	33.21	-	25.06	290.6	.059
30	12.47	33.22	-	25.14	283.4	.088
50	10.45	32.97	-	25.31	266.8	.143
75	9.33	33.32	-	25.77	223.2	.204
100	9.09	33.62	-	26.04	197.3	.257
125	8.83	33.76	-	26.20	183.0	.305
150	8.36	33.88	-	26.36	167.2	.350
200	7.66	33.96	-	26.53	151.4	.431
250	7.01	33.97	-	26.63	142.0	.506
300	6.40	33.99	-	26.73	132.7	.577
400	5.86	34.09	-	26.87	118.7	.707
500	5.22	34.18	-	27.02	104.6	.824
600	4.80	34.23	-	27.11	96.3	.931

	T	S	OXY	PHO	SIL	NIT	DAT		T	S	OXY	SIGT	DAT	DD
60.80								CALCOFI CRUISE 6806						60.80

DAVID STARR JORDAN, JUNE 19 1968, 1036 GMT, 36° 57.5'N 125° 00'E, SOUNDING 2350 FM, WIND 330 18 KNOTS, WEATHER MISSING, SEA MISSING, WIRE ANGLE 05.

1	12.76	-	6.39	0.90	11	6.6	-
12	12.79	-	6.44	0.92	11	7.1	-
31	12.50	-	6.40	0.98	11	8.0	-
40	12.09	-	6.30	0.83	9	6.1	-
54	10.44	-	6.03	0.84	8	6.5	-
69	10.29	-	5.63	1.08	11	10.2	-
93	8.87	-	4.52	1.54	22	19.4	-
113	9.07	-	4.52	1.80	27	24.0	-
132	8.62	-	3.52	1.90	31	25.4	-
152	8.29	-	3.19	1.99	35	26.9	-
181	8.11	-	3.06	2.12	38	28.6	-
215	7.66	-	2.94	2.13	43	30.5	-
245	7.25	-	2.76	2.25	46	31.4	-
294	6.54	-	2.59	2.33	54	34.2	-
348	6.14	-	1.69	2.64	64	38.1	-
430	5.64	-	.91	3.03	75	42.3	-
513	5.14	-	.54	3.02	85	43.2	-
594	4.83	-	.37	3.22	94	46.5	-

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIGHT	D*T	DD
60.90				CALCOFI CRUISE 6806										60.90

DAVID STARR JORDAN, JUNE 19 1968, 0443 GMT, 36°37'N 125°47'W, SOUNDING 2400 FM, WIND 340 20 KNOTS, WEATHER CLOUDY, SEA ROUGH.

0	14.92	32.91	-	24.40	353.8	0
10	14.92	32.91	-	24.40	353.8	.035
20	14.92	32.92	-	24.41	353.0	.071
30	14.86	32.91	-	24.41	352.5	.106
50	12.35	32.97	-	24.97	299.6	.172
75	11.40	32.99	-	25.16	281.3	.245
100	10.69	33.05	-	25.33	264.9	.313
125	10.35	33.12	-	25.45	254.1	.379
150	10.02	33.25	-	25.60	239.2	.441
200	9.42	33.58	-	25.96	205.3	.554
250	8.83	33.81	-	26.23	179.3	.652
300	8.03	33.97	-	26.48	155.8	.738
400	6.77	34.07	-	26.74	131.4	.887
500	5.94	34.13	-	26.89	116.7	1.018
600	4.99	34.16	-	27.03	103.6	1.134

63.52 CALCOFI CRUISE 6806 63.52

DAVID STARR JORDAN, JUNE 20 1968, 1935 GMT, 37°19'N 122°36'W, SOUNDING 44 FM, WIND 300 7 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	12.68	33.75	-	25.51	248.3	0
10	10.86	33.85	-	25.93	208.6	.023
20	10.02	33.90	-	26.11	191.1	.043
30	9.18	33.97	-	26.30	172.7	.061
50	8.44	34.01	-	26.45	158.7	.094

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIGHT	D*T	DD
63.52				CALCOFI CRUISE 6806										63.52

DAVID STARR JORDAN, JUNE 20 1968, 1955 GMT, 37°19'N 122°36'W, SOUNDING 44 FM, WIND 300 7 KNOTS, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 07°.

0	12.50	33.75	K	-	-	-	245.0	0	12.50	33.750	-0	25.54	245.0	0
4	12.50	-	A	0.46	0	0.1	-	10	11.43	33.816	5.76	25.80	221.0	.023
12	10.98	33.829	6.77	1.31	15	11.4	212.2	20	9.92	33.892	5.53	26.12	190.0	.044
23	9.62	-	4.15	2.07	28	22.8	-	30	9.12	33.952	2.58	26.30	173.1	.062
32	9.00	33.961	2.24	2.42	39	28.6	170.6	50	8.43	34.007	1.36	26.45	158.9	.095
51	8.43	34.007	1.32	2.65	51	32.2	158.8							

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIGHT	D*T	DD
63.55				CALCOFI CRUISE 6806										63.55

DAVID STARR JORDAN, JUNE 20 1968, 2125 GMT, 37°12'N 122°49.5'W, SOUNDING 140 FM, WIND 350 6 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	10.91	33.59	-	25.71	228.7	0
10	10.26	33.74	-	25.95	206.8	.022
20	9.92	33.87	-	26.10	191.7	.042
30	9.20	33.86	-	26.21	181.2	.060
50	8.70	33.94	-	26.36	167.7	.095
75	8.47	34.05	-	26.48	156.2	.136
100	8.22	34.07	-	26.53	151.1	.175
125	8.06	34.06	-	26.55	149.5	.213
150	8.05	34.08	-	26.57	147.9	.251
200	7.92	34.11	-	26.61	143.9	.325
250	7.51	34.13	-	26.68	136.7	.397

A) AN OXYGEN VALUE OF 10.75 AT 4 METERS WAS CAREFULLY VERIFIED, NOTE A SIMILAR HIGH VALUE ON STATION 60.52.

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
63.60															63.60

DAVID STARR JORDAN, JUNE 21 1968, 0007 GMT, 37 02.5N 123 11.5 W, SOUNDING 1500 FM, WIND 330 18 KNOTS, WEATHER CLEAR,
SEA MODERATE.

0	13.04	33.25	-	25.05	291.8	0
10	12.92	33.24	-	25.07	290.3	.029
20	11.67	33.24	-	25.31	267.6	.057
30	10.12	33.30	-	25.63	237.1	.082
50	9.56	33.65	-	25.99	202.3	.126
75	9.55	33.84	-	26.14	188.1	.176
100	9.42	33.89	-	26.20	182.3	.222
125	8.67	33.93	-	26.35	168.0	.267
150	8.50	33.96	-	26.40	163.3	.309
200	7.94	34.09	-	26.59	145.6	.387
250	7.57	34.12	-	26.67	138.3	.460
300	7.29	34.16	-	26.74	131.5	.530
400	6.56	34.17	-	26.85	121.3	.661
500	5.73	34.21	-	26.98	108.2	.782
600	5.16	34.29	-	27.12	95.7	.891

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	
63.60															63.60

DAVID STARR JORDAN, JUNE 21 1968, 0048 GMT, 37 02.5N 123 11.5W, SOUNDING 1500 FM, WIND 330 18 KNOTS, WEATHER CLEAR,
SEA MODERATE, WIRE ANGLE 10°.

1	13.03	33.219	6.31	0.82	8	5.8	293.9	0	13.03	33.219	6.31	25.03	293.9	0
11	12.82	33.235	6.35	0.85	9	6.7	288.8	10	12.86	33.232	6.35	25.07	289.7	.029
30	11.50	33.324	6.17	1.04	11	9.1	256.4	20	12.52	33.275	6.29	25.17	280.4	.058
39	9.46	33.354	4.99	1.34	16	15.5	222.7	30	11.50	33.324	6.17	25.40	258.4	.085
53	9.41	33.595	4.64	1.62	21	19.9	204.0	50	9.42	33.537	4.69	25.93	208.5	.132
67	9.48	33.762	4.69	1.84	27	24.7	192.8	75	9.56	33.815	4.88	26.12	190.0	.182
91	9.52	33.873	4.88	2.00	32	25.5	185.2	100	9.19	33.892	4.11	26.24	178.7	.228
111	8.76	33.910	3.14	2.10	34	27.7	170.8	125	8.55	33.946	2.91	26.38	165.1	.272
129	8.52	33.956	2.85	2.09	36	29.0	163.9	150	8.26	33.992	2.65	26.47	157.4	.313
149	8.27	33.989	2.68	2.20	39	30.0	157.8	200	7.78	34.102	1.71	26.62	142.5	.389
178	7.92	34.084	1.84	2.49	46	33.4	145.8	250	7.55	34.136	1.51	26.68	136.8	.461
213	7.72	34.111	1.64	2.56	50	33.9	141.0	300	7.30	34.168	1.23	26.74	131.0	.530
244	7.58	34.132	1.54	2.65	52	34.8	137.5	400	6.58	34.207	.90	26.87	118.8	.660
292	7.34	34.164	1.27	2.74	56	35.4	131.9	500	5.76	34.238	.64	27.00	106.5	.779
347	7.00	34.185	1.06	2.82	61	37.8	125.8	600	5.32	34.300	.42	27.11	96.7	.887
428	6.35	34.218	.82	2.97	69	40.2	115.1							
510	5.70	34.242	.62	3.12	76	42.5	105.4							
591	5.34	34.293	.44	3.16	86	46.0	97.5							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
63.90															63.90

DAVID STARR JORDAN, JUNE 19 1968, 0000 GMT, 36 02N 125 22W, SOUNDING 2500 FM, WIND 340 18 KNOTS, WEATHER OVERCAST,
SEA ROUGH.

0	14.48	32.86	-	24.46	348.5	0
10	14.46	32.86	-	24.46	348.1	.035
20	13.66	32.91	-	24.66	328.6	.069
30	13.11	32.88	-	24.75	320.3	.101
50	12.88	33.08	-	24.95	301.3	.164
75	11.45	32.83	-	25.03	294.0	.238
100	10.62	33.11	-	25.39	259.3	.308
125	9.71	33.20	-	25.62	238.0	.371
150	9.34	33.47	-	25.89	212.2	.428
200	8.75	33.79	-	26.23	179.6	.527
250	8.13	33.95	-	26.45	158.7	.614
300	7.57	34.02	-	26.59	145.7	.692
400	6.07	34.04	-	26.81	124.9	.833
500	5.01	34.05	-	26.94	112.0	.956
600	5.04	34.21	-	27.07	100.4	1.069

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
67.50								CALCOFI CRUISE 6806							67.50
DAVID STARR JORDAN, JUNE 21 1968, 1120 GMT, 36 49N 122 04.5W, SOUNDING 65 FM, WIND 320 10 KNOTS, WEATHER MISSING, SEA MODERATE.								0	12.00	33.87	-	25.73	227.0	0	
								10	10.43	33.77	-	25.94	207.4	.022	
								20	9.74	33.71	-	26.01	200.7	.042	
								30	9.47	33.78	-	26.11	191.3	.062	
								50	9.32	33.95	-	26.27	176.3	.099	
								75	9.02	33.97	-	26.33	170.3	.142	
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	
67.50								CALCOFI CRUISE 6806							67.50
DAVID STARR JORDAN, JUNE 21 1968, 1151 GMT, 36 49N 122 04.5W, SOUNDING 65 FM, WIND 320 10 KNOTS, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 11°.								0	11.72	33.859	7.04	25.78	222.9	0	
2	11.72	33.859	7.04	0.69	4	5.5	222.9	10	10.73	33.784	5.27	25.90	211.4	.022	
11	10.63	33.778	5.10	1.39	9	13.7	210.1	20	9.89	33.759	4.14	26.02	199.5	.042	
27	9.51	33.761	3.76	1.75	23	23.3	193.3	30	9.37	33.774	3.58	26.12	190.1	.062	
36	9.18	33.817	3.32	1.86	29	25.6	184.1	50	9.22	33.950	3.26	26.28	174.8	.098	
46	9.25	33.943	3.31	2.05	34	26.9	175.8	75	8.86	33.977	2.82	26.36	167.4	.142	
59	9.09	33.937	3.10	2.09	34	27.3	173.8	100	8.51	33.997	2.28	26.43	160.7	.183	
75	8.86	33.977	2.82	2.13	36	28.7	167.4								
98	8.54	33.996	2.33	2.24	40	31.6	161.2								
O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H								
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
67.55								CALCOFI CRUISE 6806							67.55
DAVID STARR JORDAN, JUNE 21 1968, 0835 GMT, 36 39N 122 26W, SOUNDING 1200 FM, WIND 330 16 KNOTS, WEATHER CLEAR, SEA MODERATE.								0	14.16	33.44	-	24.97	299.6	0	
								10	14.13	33.44	-	24.98	299.0	.030	
								20	13.76	33.49	-	25.09	288.0	.059	
								30	12.11	33.40	-	25.35	263.6	.087	
								50	11.17	33.60	-	25.68	232.4	.137	
								75	9.70	33.64	-	25.96	205.2	.192	
								100	8.86	33.80	-	26.22	180.5	.240	
								125	8.60	33.94	-	26.37	166.2	.284	
								150	8.39	34.00	-	26.45	158.7	.326	
								200	7.71	34.05	-	26.59	145.4	.403	
								250	7.64	34.16	-	26.69	136.2	.475	
								300	7.07	34.18	-	26.78	127.1	.543	
								400	6.03	34.17	-	26.91	114.7	.669	
								500	5.44	34.22	-	27.03	104.1	.784	
								600	5.10	34.30	-	27.13	94.3	.890	
CALCOFI CRUISE 6806							67.60								
DAVID STARR JORDAN, JUNE 21 1968, 0503 GMT, 36 28N 122 47W, SOUNDING 1600 FM, WIND 330 14 KNOTS, WEATHER CLEAR, SEA MODERATE.								0	13.52	33.17	-	24.89	306.8	0	
								10	13.37	33.26	-	24.99	297.4	.030	
								20	13.18	33.25	-	25.02	294.5	.060	
								30	12.22	33.16	-	25.14	283.3	.089	
								50	10.10	33.10	-	25.47	251.6	.142	
								75	9.43	33.40	-	25.82	218.8	.202	
								100	8.97	33.69	-	26.12	190.3	.253	
								125	8.76	33.78	-	26.22	180.5	.300	
								150	8.66	33.92	-	26.35	168.6	.344	
								200	7.70	33.97	-	26.53	151.2	.426	
								250	7.15	34.03	-	26.66	139.3	.500	
								300	6.58	34.06	-	26.76	129.7	.569	
								400	5.80	34.13	-	26.91	115.0	.696	
								500	5.48	34.22	-	27.02	104.5	.812	
								600	5.01	34.29	-	27.13	94.0	.917	

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	PHO	SIL	DAT	DD

67.60 CALCOFT CRUISE 6806 67.60

DAVID STARR JORDAN, JUNE 21 1968, 0548 GMT, 36 28N 122 47W, SOUNDING 1600 FM, WIND 300 14 KNOTS, WEATHER CLEAR,
SEA MODERATE, WIRE ANGLE 12.

1	13.53	33.139	6.30	0.59	6	2.8	301.3	0	13.53	33.139	6.30	24.87	309.3	0
11	13.52	33.135	6.33	0.60	6	3.5	309.4	10	13.52	33.135	6.33	24.87	309.4	.031
30	12.60	33.128	6.40	0.60	4	3.2	292.6	20	13.17	33.131	6.38	24.93	303.0	.062
39	12.10	33.130	6.35	0.48	5	2.3	283.3	30	12.60	33.128	6.40	25.04	292.6	.091
53	10.34	33.015	5.88	0.79	7	6.6	261.7	50	10.71	33.032	6.00	25.32	266.5	.148
67	9.99	33.223	5.54	0.99	10	10.4	240.7	75	9.76	33.320	5.18	25.70	229.8	.210
92	9.31	33.501	4.42	1.40	19	10.6	209.5	100	9.18	33.586	4.21	26.00	201.1	.264
110	9.03	33.681	3.99	1.63	25	22.6	191.9	125	8.78	33.784	3.63	26.22	180.4	.312
129	8.71	33.806	3.55	1.76	29	25.0	177.8	150	8.44	33.893	3.36	26.36	167.5	.356
148	8.47	33.887	3.35	1.89	33	26.9	168.3	200	7.79	33.963	3.36	26.51	153.0	.438
176	8.09	33.942	3.53	1.76	35	25.6	158.7	250	7.27	34.024	2.44	26.63	141.4	.514
210	7.68	33.971	3.21	2.04	41	29.5	150.9	300	6.72	34.053	1.95	26.73	132.1	.584
238	7.44	34.022	2.56	2.21	46	32.5	143.8	400	5.96	34.130	1.04	26.89	116.9	.713
285	6.80	34.030	2.19	2.38	54	35.3	134.8	500	5.50	34.218	.58	27.02	104.9	.830
338	6.58	34.116	1.34	2.68	62	38.6	125.6	600	5.17	34.310	.36	27.13	94.2	.936
422	5.74	34.139	.95	2.89	74	42.9	113.6							
505	5.48	34.223	.56	2.92	79	43.8	104.3							
587	5.21	34.299	.37	3.11	89	47.40	95.6							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	PHO	SIL	DAT	DC

67.90 CALCOFT CRUISE 6806 67.90

DAVID STARR JORDAN, JUNE 18 1968, 1900 GMT, 35 28N 124 55W, SOUNDING 2400 FM, WIND 340 13 KNOTS, WEATHER OVERCAST,
SEA RUGGED.

0	15.83	33.10	-	24.35	358.9	0
10	15.82	33.10	-	24.35	358.7	.036
20	15.76	33.10	-	24.36	357.4	.072
30	15.67	33.10	-	24.38	355.5	.107
50	13.83	33.08	-	24.76	319.5	.175
75	12.44	33.05	-	25.01	295.4	.252
100	10.95	33.10	-	25.33	265.5	.323
125	9.73	33.37	-	25.75	225.7	.385
150	9.05	33.63	-	26.06	196.0	.438
200	8.61	33.89	-	26.33	170.1	.531
250	7.83	33.98	-	26.52	152.3	.614
300	7.13	34.00	-	26.63	141.3	.690
400	6.21	34.09	-	26.83	122.9	.827
500	5.59	34.16	-	26.96	110.3	.949
600	5.04	34.22	-	27.07	99.6	1.060

70.53 CALCOFT CRUISE 6806 70.53

DAVID STARR JORDAN, JUNE 17 1968, 1835 GMT, 36 06.5N 121 54W, SOUNDING 580 FM, WIND MISSING, WEATHER FOG, SEA SLIGHT.

0	11.44	33.82	-	25.80	220.8	0
10	10.69	33.87	-	25.97	204.3	.021
20	10.25	33.93	-	26.09	192.6	.041
30	9.92	33.92	-	26.14	188.0	.060
50	9.76	33.92	-	26.17	185.4	.098
75	9.13	33.94	-	26.29	174.2	.143
100	8.63	33.98	-	26.40	163.7	.186
125	8.32	34.02	-	26.48	156.2	.226
150	7.95	34.04	-	26.55	149.5	.265
200	7.55	34.12	-	26.67	138.0	.338
250	7.45	34.18	-	26.73	132.2	.408
300	7.21	34.22	-	26.80	126.0	.474
400	6.56	34.21	-	26.88	118.3	.602
500	5.96	34.26	-	26.99	107.2	.721
600	5.41	34.28	-	27.08	99.2	.831

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH									
INPUT				COMPUTED			INPUT				COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
70.53							CALCOFI CRUISE 6806							70.53		

DAVID STARR JORDAN, JUNE 17 1968, 1920 GMT, 36 06.5N 121 54W, SOUNDING 580 FM, WIND CALM, WEATHER FOG,
SEA SLIGHT, WIRE ANGLE 06.

0	11.49	33.820	5.97	1.69	25	19.0	221.7	0	11.49	33.820	5.97	25.79	221.7	0
11	10.97	33.838	5.80	1.66	25	19.5	211.4	10	11.02	33.837	5.82	25.89	212.3	.022
28	10.17	33.855	5.34	1.65	27	20.4	196.8	20	10.51	33.847	5.53	25.98	203.0	.043
39	9.93	33.917	5.36	1.61	30	20.1	188.4	30	10.11	33.867	5.34	26.07	195.0	.062
49	9.88	33.918	5.21	1.80	31	22.4	187.5	50	9.87	33.918	5.20	26.15	187.4	.101
63	9.75	33.913	5.03	1.95	30	23.5	185.8	75	9.65	33.912	4.78	26.18	184.2	.148
78	9.60	33.913	4.67	1.96	31	23.4	183.4	100	8.84	33.942	3.04	26.34	169.7	.192
95	8.97	33.931	3.24	2.03	32	25.9	172.4	125	8.35	34.006	2.64	26.46	157.7	.234
121	8.43	33.996	2.68	2.13	36	28.0	159.6	150	7.93	34.047	2.48	26.56	148.7	.273
141	8.05	34.040	2.54	2.23	40	29.0	150.9	200	7.46	34.077	2.05	26.65	140.0	.346
169	7.74	34.053	2.35	2.36	44	31.3	145.6	250	7.41	34.169	1.32	26.73	132.4	.416
198	7.47	34.074	2.08	2.47	48	32.5	140.3	300	7.31	34.210	1.02	26.78	128.0	.483
228	7.42	34.132	1.60	2.62	52	33.8	135.3	400	6.66	34.221	.81	26.87	118.8	.612
267	7.40	34.191	1.16	2.77	55	35.0	130.7	500	6.09	34.251	.67	26.97	109.5	.732
326	7.19	34.215	.97	2.38	58	32.1	126.1							
399	6.67	34.221	.81	3.02	64	38.2	118.9							
471	6.27	34.239	.75	3.04	70	38.2	112.5							
549	5.78	34.278	.46	3.18	76	40.7	103.7							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH									
INPUT				COMPUTED			INPUT				COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
70.60							CALCOFI CRUISE 6806							70.60		

DAVID STARR JORDAN, JUNE 17 1968, 2243 GMT, 35 52N 122 24W, SOUNDING 1740 FM, WIND 230 4 KNOTS, WEATHER OVERCAST,
SEA SLIGHT.

0	14.82	33.10	-	24.57	337.8	0
10	13.37	33.09	-	24.86	309.8	.032
20	12.01	33.09	-	25.13	284.7	.062
30	12.00	33.19	-	25.21	277.1	.090
50	11.59	33.39	-	25.44	255.1	.144
75	10.81	33.61	-	25.75	225.5	.204
100	9.35	33.51	-	25.92	209.4	.259
125	9.29	33.77	-	26.13	189.2	.309
150	8.86	33.86	-	26.27	176.0	.358
200	8.14	33.98	-	26.47	156.6	.440
250	7.65	34.06	-	26.61	143.8	.517
300	7.18	34.11	-	26.71	133.8	.589
400	6.16	34.12	-	26.86	120.0	.721
500	5.77	34.21	-	26.98	108.7	.841
600	5.18	34.27	-	27.10	97.4	.951

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		
70.60							CALCOFI CRUISE 6806							70.60		

DAVID STARR JORDAN, JUNE 17 1968, 2317 GMT, 35 52N, 122 24W, SOUNDING 1740 FM, WIND 230 4 KNOTS, WEATHER OVERCAST,
SEA SLIGHT, WIRE ANGLE 05.

0	14.97	33.117	6.15	0.39	1	0.3	339.6	0	14.97	33.117	6.15	24.55	339.6	0
11	13.38	33.183	6.44	0.53	3	1.8	303.2	10	13.51	33.180	6.42	24.90	305.8	.032
30	11.73	33.117	6.39	0.60	3	2.7	277.7	20	12.41	33.144	6.46	25.09	288.0	.062
40	11.49	33.226	6.15	0.76	5	5.8	265.5	30	11.73	33.117	6.39	25.20	277.7	.090
49	11.58	33.339	6.05	0.91	7	8.1	258.7	50	11.52	33.338	6.04	25.41	257.8	.144
64	10.64	33.339	5.80	1.02	9	9.8	242.7	75	10.76	33.560	5.57	25.72	228.4	.205
78	10.80	33.618	5.49	1.32	13	15.3	224.8	100	9.48	33.508	4.50	25.89	211.6	.261
97	9.55	33.485	4.63	1.43	17	17.4	214.4	125	9.24	33.759	3.66	26.13	189.2	.311
121	9.30	33.738	3.74	1.80	25	23.7	191.8	150	8.78	33.866	3.38	26.29	174.5	.357
141	8.95	33.822	3.43	1.92	29	26.2	180.2	200	8.10	34.003	2.98	26.50	154.3	.441
170	8.44	33.951	3.30	2.01	33	27.8	163.1	250	7.66	34.062	2.15	26.61	143.9	.518
200	8.10	34.003	2.98	2.12	37	30.2	154.3	300	7.28	34.108	1.67	26.70	135.2	.590
228	7.81	34.043A	2.43	2.31	43	32.9	147.3	400	6.27	34.137	1.09	26.86	120.1	.722
267	7.56	34.074A	1.99	2.49	48	35.7	141.6	500	5.74	34.208	.65	26.98	108.5	.842
325	7.04	34.130	1.46	2.71	55	38.8	130.4							
398	6.28	34.136	1.10	2.92	64	41.9	120.3							
471	5.88	34.182	.78	3.02	71	-	112.0							
548	5.53	34.259	.45	3.16	80	-	102.2							

A) THE SALINITY SAMPLES AT 228 AND 267 METERS APPEAR TO HAVE BEEN
REVERSED. COMPARISON WITH THE STD INDICATES THEY ARE IN THE CORRECT
ORDER.

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DO
70.70							CALCOFI CRUISE 6806							70.70
DAVID STARR JORDAN, JUNE 18 1968, 0418 GMT, 35 33N 123 05W, SOUNDING 2100 FM, WIND 320 10 KNOTS, WEATHER MISSING, SEA MISSING.														
0	14.00	33.27	-	24.87	308.9	0	10	13.45	33.30	-	25.01	296.0	.030	
20	13.10	33.40	-	25.15	281.9	.059	30	12.95	33.42	-	25.20	277.6	.087	
50	12.62	33.46	-	25.30	268.5	.142	75	12.10	33.47	-	25.40	258.3	.208	
100	10.97	33.52	-	25.65	234.9	.270	125	10.03	33.66	-	25.92	209.0	.326	
150	9.42	33.80	-	26.13	189.0	.377	200	8.71	34.03	-	26.43	161.2	.466	
250	7.99	34.06	-	26.56	148.6	.546	300	7.42	34.10	-	26.67	137.7	.619	
400	6.46	34.14	-	26.84	122.3	.755	500	5.52	34.15	-	26.96	110.2	.877	
600	5.09	34.23	-	27.08	99.4	.988								
70.80							CALCOFI CRUISE 6806							70.80
DAVID STARR JORDAN, JUNE 18 1968, 0834 GMT, 35 14N 123 45.5W, SOUNDING 2250 FM, WIND 340 10 KNOTS, WEATHER MISSING, SEA MISSING.														
0	15.16	33.12	-	24.51	343.3	0	10	14.94	33.16	-	24.59	335.9	.034	
20	14.26	33.18	-	24.75	320.6	.067	30	13.04	33.13	-	24.96	300.6	.098	
50	13.34	33.42	-	25.12	285.0	.157	75	10.95	33.43	-	25.58	241.2	.223	
100	10.04	33.70	-	25.95	206.2	.279	125	9.54	33.82	-	26.13	189.4	.329	
150	8.89	33.90	-	26.30	173.5	.375	200	8.21	34.00	-	26.48	156.1	.459	
250	7.48	34.03	-	26.61	143.7	.536	300	6.93	34.08	-	26.73	132.7	.607	
400	5.86	34.12	-	26.90	116.4	.737	500	5.38	34.21	-	27.03	104.1	.853	
600	4.84	34.25	-	27.12	95.2	.958								
70.80							CALCOFI CRUISE 6806							70.80
DAVID STARR JORDAN, JUNE 18 1968, 0930 GMT, 35 14N 123 45.5W, SOUNDING 2250 FM, WIND 300 10 KNOTS, WEATHER MISSING, SEA MISSING, WIRE ANGLE 00.														
INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DO
70.80							CALCOFI CRUISE 6806							70.80
1	14.62	33.168	6.11	0.40	2	1.1	328.7	0	14.62	33.168	6.11	24.66	328.7	0
11	14.55	33.218	6.15	0.45	2	1.4	323.7	10	14.57	33.213	6.15	24.71	324.4	.033
30	13.81	33.296	6.27	0.55	2	1.5	303.2	20	14.23	33.245	6.23	24.80	315.2	.065
40	13.54	33.407	6.18	0.66	3	3.6	289.8	30	13.81	33.296	6.27	24.93	303.2	.096
50	13.23	33.412	6.18	0.73	4	4.2	283.5	50	13.23	33.412	6.18	25.14	283.5	.155
64	11.44	33.351	6.06	0.91	5	7.1	255.4	75	10.71	33.511	5.36	25.69	231.1	.219
79	10.54	33.582	5.07	1.42	15	15.5	223.1	100	9.89	33.712	4.18	25.99	202.9	.274
98	9.94	33.700	4.24	1.07	22	20.1	204.6	125	9.33	33.863	3.50	26.18	184.4	.323
122	9.40	33.830	3.58	1.78	28	23.6	186.5	150	8.78	33.936	2.97	26.34	169.2	.368
141	8.97	33.903	3.10	2.07	31	25.7	174.5	200	8.12	34.008	2.71	26.50	154.2	.450
171	8.40	33.993	2.80	2.07	36	27.0	159.4	250	7.44	34.046	2.26	26.63	142.0	.526
201	8.11	34.009	2.71	2.18	39	28.5	154.0	300	6.99	34.091	1.69	26.73	132.7	.597
229	7.72	34.035	2.43	2.31	43	30.1	146.7	400	5.92	34.125	1.03	26.89	116.8	.727
268	7.22	34.055	2.10	2.49	49	32.9	138.4	500	5.33	34.206	.51	27.03	103.8	.842
327	6.82	34.120	1.36	2.74	57	36.2	128.3							
399	5.93	34.124	1.04	2.91	68	38.5	117.0							
472	5.46	34.180	.62	3.06	77	41.0	107.3							
549	5.16	34.258	.37	3.18	86	44.3	98.1							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIG*T	DAT	DD
70.90								CALCOFT CRUISE 6806						
DAVID STARR JORDAN, JUNE 18 1968, 1402 GMT, 34°53'N 124°28'W, SOUNDING 2350 FM, WIND 010 12 KNOTS, WEATHER OVERCAST, SEA ROUGH.								70.90						
0	15.44	33.11	-	24.44	349.9	0		0	12.99	33.71	-	25.42	257.1	0
10	15.43	33.11	-	24.44	349.7	.035		10	11.83	33.71	-	25.64	235.8	.025
20	15.29	33.11	-	24.47	346.8	.070		20	11.15	33.80	-	25.83	217.3	.047
30	15.21	33.11	-	24.49	345.1	.105		30	10.45	33.86	-	26.01	201.0	.068
50	13.50	33.09	-	24.84	312.3	.170		50	9.63	33.80	-	26.10	192.3	.108
75	12.67	33.06	-	24.98	298.9	.247		75	9.28	33.90	-	26.23	179.4	.155
100	11.34	33.08	-	25.24	273.7	.319		100	8.87	33.95	-	26.34	169.5	.199
125	10.43	33.25	-	25.53	245.8	.385		125	8.47	34.02	-	26.45	158.4	.240
150	9.81	33.45	-	25.80	221.0	.444		150	7.99	33.98	-	26.50	154.3	.632
200	8.87	33.79	-	26.21	181.4	.546		200	7.58	34.06	-	26.62	142.9	.356
250	8.13	34.01	-	26.50	154.0	.627		250	7.13	34.10	-	26.71	133.8	.427
300	7.30	34.02	-	26.63	142.1	.708		300	6.85	34.17	-	26.81	125.0	.493
400	6.14	34.07	-	26.82	123.5	.846		400	6.37	34.22	-	26.91	115.2	.618
500	5.62	34.17	-	26.97	109.9	.969		500	5.88	34.25	-	27.00	107.0	.736
600	5.08	34.24	-	27.09	98.6	1.079		600	5.32	34.31	-	27.11	96.0	.844
73.53								73.53						
DAVID STARR JORDAN, JUNE 17 1968, 1026 GMT, 35°31'N 121°28.5'W, SOUNDING 410 FM, WIND 320 2 KNOTS, WEATHER FOG, SEA MISSING.														
0	12.99	33.71	-	25.42	257.1	0		0	12.01	33.72	8.07	25.62	238.1	.025
10	11.83	33.71	-	25.64	235.8	.025		10	11.15	33.80	-	25.83	217.3	.047
20	11.15	33.80	-	25.83	217.3	.047		30	10.45	33.86	-	26.01	201.0	.068
30	10.45	33.86	-	26.01	201.0	.068		50	9.63	33.80	-	26.10	192.3	.108
50	9.63	33.80	-	26.10	192.3	.108		75	9.28	33.90	-	26.23	179.4	.155
75	9.28	33.90	-	26.23	179.4	.155		100	8.87	33.95	-	26.34	169.5	.199
100	8.87	33.95	-	26.34	169.5	.199		125	8.47	34.02	-	26.45	158.4	.240
125	8.47	34.02	-	26.45	158.4	.240		150	7.99	33.98	-	26.50	154.5	.280
150	7.99	33.98	-	26.50	154.5	.280		200	7.58	34.06	-	26.62	142.9	.356
200	7.58	34.06	-	26.62	142.9	.356		250	7.13	34.10	-	26.71	133.8	.427
250	7.13	34.10	-	26.71	133.8	.427		300	6.85	34.17	-	26.81	125.0	.493
300	6.85	34.17	-	26.81	125.0	.493		400	6.37	34.22	-	26.91	115.2	.618
400	6.37	34.22	-	26.91	115.2	.618		500	5.88	34.25	-	27.00	107.0	.736
500	5.88	34.25	-	27.00	107.0	.736		600	5.32	34.31	-	27.11	96.0	.844
73.53								73.53						
DAVID STARR JORDAN, JUNE 17 1968, 1105 GMT, 35°31'N 121°28.5'W, SOUNDING 410 FM, WIND 320 2 KNOTS, WEATHER FOG, SEA MISSING, WIRE ANGLE 00.														
0	13.07	33.723	7.97	0.28	0	2.3	257.6	0	13.07	33.723	7.97	25.41	257.6	0
10	12.01	33.722	8.07	0.35	0	2.9	238.1	10	12.01	33.722	8.07	25.62	238.1	.025
20	10.03	33.907	5.14	1.51	22	17.3	190.7	20	10.80	33.819	6.61	25.91	210.0	.047
30	9.90	33.907	4.76	1.57	25	18.7	188.6	30	10.01	33.909	5.09	26.12	190.2	.067
50	9.27	33.875	3.45	1.86	29	24.3	181.1	50	9.40	33.881	3.72	26.20	182.8	.105
68	9.25	33.914	3.34	2.01	30	24.7	177.9	75	9.07	33.923	3.28	26.29	174.5	.150
92	8.58	33.939	3.04	2.03	33	27.2	166.0	100	8.50	33.972	2.81	26.41	162.4	.192
111	8.43	34.015	2.54	2.14	37	28.7	158.2	125	8.22	34.016	2.56	26.49	155.1	.232
131	8.12	34.016	2.62	2.11	39	28.8	153.7	150	7.86	34.006	2.77	26.54	150.8	.271
150	7.86	34.006	2.77	2.22	40	29.4	150.8	200	7.54	34.071	2.11	26.63	141.5	.346
179	7.63	34.041	2.42	2.31	45	31.3	145.0	250	7.08	34.114	1.55	26.73	132.2	.416
213	7.48	34.088	1.93	2.49	49	33.2	139.4	300	6.79	34.182	1.09	26.82	123.3	.482
243	7.14	34.106	1.63	2.63	53	34.9	133.5	400	6.36	34.241	.73	26.93	113.4	.605
292	6.83	34.172	1.13	2.83	60	37.2	124.6	500	5.81	34.289	.46	27.04	103.2	.720
346	6.59	34.229	.91	2.98	65	38.4	117.2	600	5.31	34.346	.36	27.14	93.1	.825
429	6.22	34.249	.64	3.06	70	39.4	111.1							
511	5.75	34.295	.44	3.14	77	41.3	102.1							
593	5.34	34.342	.36	3.24	84	41.8	93.8							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
73.60 CALCOFI CRUISE 6806														73.60
DAVID STARR JORDAN, JUNE 17 1968, 0611 GMT, 35 18N 121 57.5W, SOUNDING 1300 FM, WIND CALM, WEATHER MISSING, SEA MISSING.														
0	13.28	33.63	-	25.30	268.5	0								
10	11.89	33.65	-	25.58	241.3	.025								
20	10.86	33.73	-	25.83	217.5	.048								
30	10.54	33.76	-	25.91	209.9	.070								
50	9.66	33.88	-	26.16	186.8	.110								
75	8.98	33.90	-	26.28	174.9	.155								
100	8.75	33.97	-	26.37	166.2	.198								
125	8.55	34.00	-	26.43	161.1	.240								
150	8.31	34.05	-	26.50	153.9	.280								
200	7.86	34.11	-	26.62	143.0	.355								
250	7.44	34.14	-	26.70	135.0	.427								
300	7.01	34.15	-	26.77	128.5	.495								
400	6.34	34.22	-	26.91	114.8	.622								
500	5.72	34.26	-	27.02	104.3	.737								
600	5.18	34.29	-	27.11	95.9	.844								

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
73.60 CALCOFI CRUISE 6806														73.60
DAVID STARR JORDAN, JUNE 17 1968, 0651 GMT, 35 18N 121 57.5W, SOUNDING 1300 FM, WIND CALM, WEATHER MISSING, SEA SLIGHT, WIRE ANGLE 17.														
1	13.21	33.627	7.38	0.34	0	5.4	267.3	0	13.21	33.627	7.38	25.31	267.3	0
10	11.78	33.645	6.52	0.82	1	10.1	239.7	10	11.78	33.645	6.52	25.60	239.7	.025
29	10.72	33.747	5.43	1.51	19	18.5	213.9	20	11.08	33.702	5.92	25.77	223.2	.049
38	10.11	33.747	4.73	1.54	21	19.3	203.8	30	10.64	33.746	5.35	25.88	212.7	.070
48	9.86	33.813	4.41	1.79	25	22.2	195.0	50	9.74	33.818	4.24	26.09	192.6	.111
61	9.09	33.834	3.30	1.94	29	25.5	181.4	75	8.98	33.877	3.02	26.26	176.6	.158
75	8.98	33.877	3.02	1.98	30	26.3	176.6	100	8.79	33.939	2.89	26.34	169.1	.201
92	8.85	33.917	3.00	1.99	32	26.1	171.7	125	8.57	33.982	2.80	26.41	162.7	.243
115	8.67	33.975	2.72	2.05	34	27.1	164.7	150	8.40	34.030	2.53	26.47	156.6	.284
135	8.48	33.990	2.85	2.15	36	28.4	160.8	200	7.95	34.102	1.90	26.60	144.8	.361
161	8.34	34.061	2.25	2.29	40	30.1	153.5	250	7.34	34.133	1.51	26.71	134.1	.432
189	8.09	34.087	2.04	2.28	43	30.9	148.0	300	6.99	34.180	1.21	26.80	126.1	.499
217	7.72	34.124	1.70	2.49	48	33.1	140.0	400	6.35	34.223	*.73	26.92	114.6	.625
254	7.30	34.135	1.49	2.57	52	34.8	133.5	500	5.76	34.264	*.49	27.02	104.5	.740
310	6.94	34.190	1.15	2.71	59	35.6	124.6							
379	6.47	34.217	.80	2.76	66	38.8	116.6							
449	6.06	34.241	.60	2.94	71	39.2	109.8							
526	5.61	34.277	.44	-	79	44.1	101.8							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
77.51 CALCOFI CRUISE 6806														77.51
DAVID STARR JORDAN, JUNE 16 1968, 1950 GMT, 35 02N 120 57W, SOUNDING 150 FM, WIND 230 8 KNOTS, WEATHER OVERCAST, SEA MODERATE.														
0	12.47	33.78	-	25.57	242.2	0								
10	12.32	33.76	-	25.59	240.9	.024								
20	11.65	33.77	-	25.72	228.2	.048								
30	11.14	33.78	-	25.82	218.6	.070								
50	9.96	33.83	-	26.07	195.3	.112								
75	9.10	33.98	-	26.32	170.8	.158								
100	8.80	34.06	-	26.43	160.3	.199								
125	8.69	34.07	-	26.46	157.9	.240								
150	8.52	34.09	-	26.50	153.9	.279								
200	8.20	34.14	-	26.59	145.6	.356								
250	7.80	34.13	-	26.64	140.7	.429								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGT	DAT	DD

77.51 CALCOFI CRUISE 6806 77.51

DAVID STARR JORDAN, JUNE 16 1968, 2014 GMT, 35°02'N 120°57'W, SOUNDING 150 FM, WIND 230 8 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 12°.

1	12.31	33.782	7.03	0.30	1	6.6	239.1	0	12.31	33.782	7.03	25.60	239.1	0
10	12.01	33.78	7.02	0.70	1	6.7	233.9	10	12.01	33.780	7.02	25.66	233.9	.024
30	10.96	33.799	5.77	1.18	8	11.9	214.1	20	11.52	33.789	6.54	25.76	224.6	.047
44	10.17	33.798	4.53	1.52	18	17.1	201.0	30	10.96	33.799	5.77	25.87	214.1	.069
53	9.81	33.822	4.01	1.73	24	20.5	193.5	50	9.92	33.813	4.17	26.06	196.0	.110
67	9.22	33.854	3.20	1.89	29	24.5	181.9	75	9.20	33.892	2.99	26.24	178.7	.157
81	9.16	33.925	2.87	2.03	32	26.5	175.7	100	8.82	34.031	2.24	26.41	162.8	.200
100	8.82	34.031	2.24	2.23	38	28.6	162.8	125	8.69	34.063	2.02	26.45	158.5	.241
124	8.70	34.061	2.03	2.31	41	29.7	158.7	150	8.50	34.093	1.86	26.51	153.5	.280
142	8.54	34.087	1.89	2.42	43	30.9	154.5	200	8.19	34.139	1.61	26.59	145.6	.357
175	8.40	34.109	1.79	2.44	44	31.1	150.8							
203	8.17	34.141	1.60	2.45	47	32.1	145.1							
239	7.94	34.150	1.54	2.53	50	32.6	141.2							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGT	DAT	DD

77.55 CALCOFI CRUISE 6806 77.55

DAVID STARR JORDAN, JUNE 16 1968, 2223 GMT, 34°54'N 121°12'W, SOUNDING 305 FM, WIND 300 5 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	14.03	33.41	-	24.97	299.2	0
10	13.88	33.41	-	25.00	296.2	.030
20	13.47	33.44	-	25.11	286.1	.059
30	13.15	33.45	-	25.18	279.2	.087
50	11.37	33.56	-	25.61	238.8	.139
75	10.63	33.70	-	25.85	215.9	.196
100	9.16	33.77	-	26.15	187.2	.247
125	8.84	33.96	-	26.35	168.3	.292
150	8.71	34.06	-	26.45	159.0	.334
200	7.87	34.09	-	26.60	144.6	.411
250	7.36	34.10	-	26.68	136.9	.483
300	7.10	34.21	-	26.80	125.2	.551
400	6.39	34.23	-	26.92	114.7	.676
500	5.91	34.27	-	27.01	105.8	.793

77.60 CALCOFI CRUISE 6806 77.60

DAVID STARR JORDAN, JUNE 17 1968, 0100 GMT, 34°44.5'N 121°34'W, SOUNDING 520 FM, WIND VARIABLE, WEATHER CLOUDY, SEA MODERATE.

0	14.16	33.44	-	24.97	299.6	0
10	13.44	33.39	-	25.08	289.2	.029
20	13.10	33.42	-	25.17	280.5	.058
30	13.00	33.44	-	25.21	277.1	.086
50	11.77	33.60	-	25.57	242.8	.138
75	11.27	33.62	-	25.67	232.6	.198
100	9.68	33.69	-	26.00	201.2	.253
125	9.12	33.85	-	26.22	180.7	.301
150	8.83	34.00	-	26.38	165.2	.345
200	8.24	34.06	-	26.52	152.1	.426
250	7.63	34.13	-	26.67	138.3	.500
300	7.12	34.17	-	26.77	128.5	.569
400	6.19	34.22	-	26.93	112.9	.655
500	5.70	34.28	-	27.04	102.6	.808
600	5.32	34.32	-	27.12	95.2	.914

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
77.60															

CALCOFI CRUISE 6806
DAVID STARR JORDAN, JUNE 17 1968, 0138 GMT, 34 44.5N 121 34W, SOUNDING 520 FM, WIND VARIABLE 1 KNOT, WEATHER CLOUDY, SEA SLIGHT, WIRE ANGLE 00.

1	14.04	33.448	6.27	0.66	1	4.5	296.6	0	14.04	33.448	6.27	25.00	296.6	0
11	13.41	33.455	6.20	0.65	1	4.4	283.8	10	13.46	33.454	6.21	25.12	284.8	.029
30	13.03	33.461	6.18	0.73	2	5.3	276.1	20	13.23	33.458	6.19	25.17	280.0	.057
40	12.42	33.530	5.94	0.94	3	7.9	259.7	30	13.03	33.461	6.18	25.22	276.1	.085
50	11.79	33.604	5.68	1.14	5	11.4	242.9	50	11.79	33.604	5.68	25.57	242.9	.137
64	11.50	33.623	5.52	1.23	8	12.5	236.4	75	11.02	33.591	5.17	25.69	230.6	.197
79	10.81	33.582	5.00	1.29	11	13.6	227.6	100	9.55	33.706	3.73	26.04	197.9	.251
98	9.62	33.690	3.82	1.72	23	21.5	200.3	125	9.01	33.907	2.90	26.28	174.8	.298
124	9.02	33.900	2.92	2.00	31	26.4	175.5	150	8.77	34.013	2.58	26.40	163.4	.341
141	8.83	33.995	2.60	2.17	35	27.8	165.6	200	8.26	34.050	2.40	26.51	153.2	.422
170	8.65	34.024	2.52	2.20	37	28.7	160.7	250	7.72	34.120	1.72	26.65	140.3	.497
201	8.25	34.051	2.39	2.29	40	29.9	152.9	300	7.18	34.135	1.46	26.73	131.9	.567
229	7.89	34.090	2.00	2.45	45	31.7	144.9	400	6.19	34.213	.71	26.93	113.4	.695
268	7.58	34.140	1.52	2.64	51	34.4	136.9	500	5.78	34.290	.34	27.04	102.7	.809
326	6.84	34.128	1.38	2.73	58	36.4	128.0							
399	6.19	34.212	.72	3.00	69	40.0	113.5							
472	5.90	34.274	.41	3.14	75	40.7	105.4							
551	5.53	34.310	.30	3.26	82	43.8	98.4							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
80.52															

CALCOFI CRUISE 6806
DAVID STARR JORDAN, JUNE 22 1968, 0355 GMT, 34 24.5N 120 36.5W, SOUNDING 153 FM, WIND 310 20 KNOTS, WEATHER CLOUDY, SEA ROUGH.

0	11.03	33.88	-	25.90	210.8	0
10	11.04	33.88	-	25.90	211.0	.021
20	11.01	33.86	-	25.91	210.4	.042
30	10.54	33.89	-	26.01	200.3	.063
50	9.87	33.91	-	26.14	187.9	.102
75	9.27	34.03	-	26.34	169.6	.147
100	9.13	34.07	-	26.39	164.5	.189
125	8.97	34.10	-	26.44	159.9	.230
150	8.82	34.10	-	26.46	157.6	.270
200	8.38	34.17	-	26.59	146.0	.348
250	8.06	34.18	-	26.64	140.6	.422

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	
80.52															

CALCOFI CRUISE 6806
DAVID STARR JORDAN, JUNE 22 1968, 0430 GMT, 34 24.5N 120 36.5W, SOUNDING 153 FM, WIND 310 20 KNOTS, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 12.

3	11.00	33.845	4.86	1.66	20	19.1	211.4	0	11.00	33.845	4.86	25.90	211.4	0
13	11.02	33.844	4.85	1.64	20	19.0	211.8	10	11.02	33.844	4.85	25.89	211.7	.021
32	10.99	33.843	4.82	1.66	21	18.6	211.4	20	11.01	33.841	4.84	25.89	211.9	.042
47	10.58	33.871	4.11	1.80	26	20.2	202.4	30	11.01	33.842	4.82	25.89	211.7	.064
55	10.18	33.893	3.38	1.93	27	22.3	194.2	50	10.44	33.878	3.83	26.02	199.5	.105
70	9.27	33.956	2.74	2.08	31	27.1	175.1	75	9.27	33.962	2.67	26.28	174.6	.152
85	9.26	33.971	2.59	2.08	31	27.1	173.9	100	9.16	34.022	2.30	26.35	168.6	.195
106	9.11	34.043	2.18	2.27	35	29.6	166.2	125	9.00	34.070	1.99	26.41	162.6	.237
129	8.98	34.073	1.97	2.29	37	30.0	162.0	150	8.82	34.081	1.90	26.45	159.1	.278
149	8.83	34.081	1.90	2.39	40	30.7	159.2	200	8.56	34.131	1.81	26.53	151.6	.357
181	8.66	34.102	1.82	2.41	41	31.7	155.1	250	8.04	34.142	1.33	26.62	143.1	.433
210	8.49	34.140	1.77	2.44	43	31.5	149.8							
245	8.11	34.142	1.41	2.64	49	34.8	144.2							

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT			COMPUTED				INPUT			COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
80.55								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 16 1968, 1244 GMT, 34 19N 120 48W, SOUNDING 415 FM, WIND 140 6 KNOTS, WEATHER FOG,
SEA VERY ROUGH.

0	13.13	33.83	-	25.48	250.9	0
10	12.23	33.79	-	25.63	237.1	.024
20	11.41	33.85	-	25.83	218.1	.047
30	11.08	33.89	-	25.92	209.4	.069
50	10.48	33.94	-	26.06	195.6	.109
75	9.52	34.00	-	26.27	175.7	.156
100	9.13	34.03	-	26.36	167.5	.199
125	8.64	34.04	-	26.44	159.4	.241
150	8.56	34.09	-	26.50	154.5	.281
200	8.09	34.10	-	26.57	147.0	.358
250	7.66	34.15	-	26.68	137.3	.431
300	7.31	34.20	-	26.77	128.8	.499
400	6.59	34.21	-	26.87	118.7	.628
500	6.04	34.26	-	26.98	108.1	.748
600	5.36	34.31	-	27.11	96.4	.857

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT			COMPUTED				INPUT			COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
80.60								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 16 1968, 0936 GMT, 34 09N 121 09.5W, SOUNDING 1100 FM, WIND 260 4 KNOTS, WEATHER MISSING,
SEA MISSING.

0	12.59	33.71	-	25.49	249.6	0
10	12.38	33.71	-	25.54	245.7	.025
20	12.18	33.71	-	25.57	242.1	.049
30	11.60	33.82	-	25.77	223.6	.073
50	10.81	33.87	-	25.95	206.3	.116
75	9.94	33.88	-	26.11	191.3	.166
100	9.33	33.94	-	26.26	177.2	.212
125	8.78	33.99	-	26.38	165.2	.256
150	8.11	33.98	-	26.48	156.2	.296
200	7.70	34.05	-	26.59	145.3	.373
250	7.28	34.08	-	26.68	137.3	.446
300	6.91	34.12	-	26.76	129.5	.514
400	6.30	34.22	-	26.92	114.3	.641
500	5.70	34.27	-	27.04	103.3	.756
600	5.21	34.33	-	27.14	93.2	.861

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT			COMPUTED				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
80.60								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 16 1968, 1014 GMT, 34 09N 121 09.5W, SOUNDING 1100 FM, WIND 260 4 KNOTS, WEATHER MISSING,
SEA SLIGHT, WIRE ANGLE 07.

0	12.58	33.703	6.32	0.81	4	7.0	249.9	0	12.58	33.703	6.32	25.49	249.9	0
8	12.28	33.707	6.43	0.77	4	6.7	244.1	10	12.21	33.717	6.43	25.57	242.0	.025
27	11.48	33.817	5.93	1.09	9	9.6	221.7	20	11.80	33.772	6.24	25.69	230.6	.048
37	10.94	33.846	5.24	1.23	15	11.8	210.3	30	11.30	33.827	5.72	25.83	217.9	.071
46	10.85	33.874	4.94	1.34	19	15.1	206.7	50	10.78	33.884	4.79	25.97	204.7	.113
61	10.44	33.897	4.31	1.76	23	19.1	198.1	75	9.65	33.867	3.61	26.15	187.6	.163
76	9.59	33.865	3.56	1.87	27	23.1	186.8	100	9.15	33.946	2.93	26.29	174.0	.208
95	9.24	33.938	3.00	1.95	31	25.7	176.0	125	8.69	33.976	2.89	26.39	165.0	.251
119	8.80	33.966	2.86	1.94	33	26.2	167.3	150	8.23	33.993	3.05	26.47	156.9	.292
139	8.45	33.995	2.99	2.11	36	28.0	160.0	200	7.70	34.043	2.64	26.59	145.8	.369
169	7.90	33.990	3.06	2.03	39	27.3	152.5	250	7.26	34.084	1.90	26.68	136.8	.442
198	7.72	34.040	2.68	2.17	44	30.6	146.3	300	6.85	34.136	1.42	26.78	127.5	.510
227	7.47	34.073	2.13	2.44	48	33.3	140.4	400	6.25	34.242	.68	26.94	112.0	.634
266	7.12	34.092	1.78	2.56	53	35.4	134.3	500	5.65	34.299	.41	27.06	100.6	.747
323	6.68	34.169	1.19	2.81	62	38.4	122.9							
397	6.27	34.240	.69	2.96	70	39.8	112.4							
470	5.81	34.287	.46	3.10	78	42.2	103.4							
546	5.43	34.309	.39	3.16	83	43.2	97.3							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
80.70								CALCOFI CRUISE 6806							80.70

DAVID STARR JORDAN, JUNE 16 1968, 0428 GMT, 33°48'N 121°52'W, SOUNDING 2000 FM, WIND 340 10 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	15.12	33.24	-	24.61	333.7	0
10	15.12	33.24	-	24.61	333.7	.033
20	15.06	33.24	-	24.62	332.5	.067
30	15.01	33.25	-	24.64	330.7	.100
50	15.00	33.25	-	24.64	330.5	.166
75	13.30	33.28	-	25.02	294.5	.245
100	11.42	33.26	-	25.37	261.8	.315
125	9.76	33.54	-	25.87	213.6	.375
150	9.32	33.72	-	26.09	193.4	.426
200	8.88	33.95	-	26.34	169.7	.519
250	8.13	34.04	-	26.52	152.0	.601
300	7.56	34.12	-	26.67	138.1	.676
400	6.54	34.17	-	26.85	121.0	.811
500	5.67	34.19	-	26.98	109.0	.932
600	5.27	34.26	-	27.08	99.2	1.043

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
80.80								CALCOFI CRUISE 6806							80.80

DAVID STARR JORDAN, JUNE 15 1968, 2153 GMT, 33°29'N 122°33'W, SOUNDING 2450 FM, WIND 340 14 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	15.21	33.23	-	24.58	336.3	0
10	15.10	33.24	-	24.62	333.3	.033
20	15.05	33.23	-	24.62	333.0	.067
30	15.02	33.24	-	24.63	331.7	.100
50	15.00	33.24	-	24.64	331.2	.166
75	12.98	33.39	-	25.17	280.4	.244
100	10.55	33.32	-	25.57	242.6	.309
125	9.79	33.64	-	25.95	206.7	.366
150	9.56	33.77	-	26.09	193.4	.417
200	9.07	33.99	-	26.34	169.6	.509
250	8.49	34.06	-	26.48	155.7	.593
300	7.71	34.07	-	26.61	143.9	.670
400	6.78	34.16	-	26.81	124.8	.810
500	5.74	34.17	-	26.95	111.3	.934
600	5.36	34.27	-	27.08	99.4	1.046

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
80.80								CALCOFI CRUISE 6806							80.80

DAVID STARR JORDAN, JUNE 15 1968, 2244 GMT, 33°29'N 122°33'W, SOUNDING 2450 FM, WIND 340 14 KNOTS, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 07.

0	15.17	33.237	5.93	0.37	3	0.1	335.0	0	15.17	33.237	5.93	24.60	335.0	0
11	15.13	33.234	5.98	0.34	3	0.1	334.4	10	15.13	33.234	5.98	24.60	334.5	.033
30	15.01	33.233	5.97	0.36	3	0.1	332.0	20	15.07	33.233	5.97	24.62	333.3	.067
50	14.95	33.24	K	-	-	-	330.2	30	15.01	33.233	5.97	24.63	332.0	.100
56	13.36	33.386	6.19	0.46	2	0.9	287.9	50	14.95	33.240	6.15	24.65	330.2	.167
66	13.00	33.338	6.11	0.59	2	2.3	284.6	75	12.89	33.362	6.09	25.17	280.7	.243
80	12.86	33.372	6.08	0.63	2	2.9	279.5	100	10.55	33.276	5.32	25.54	245.7	.310
93	10.75	33.272	5.42	0.89	8	8.0	249.5	125	9.90	33.552	4.03	25.86	215.0	.368
107	10.37	33.303	5.21	1.00	10	9.4	240.9	150	9.53	33.792	3.07	26.11	191.3	.419
130	9.79	33.631	3.67	1.60	22	19.2	207.3	200	9.08	33.977	2.45	26.33	170.7	.512
149	9.54	33.785	3.09	1.90	27	23.0	192.0	250	8.43	34.052	2.25	26.49	155.4	.595
177	9.25	33.924	2.66	2.08	32	25.6	177.2	300	7.69	34.075	2.15	26.61	143.3	.672
205	9.04	33.985	2.41	2.16	35	27.1	169.5	400	6.76	34.165	1.10	26.82	124.2	.811
234	8.71	34.051	2.14	2.30	39	28.1	159.6	500	5.76	34.192	.70	26.97	109.9	.934
280	7.90	34.045	2.43	2.30	44	29.0	141.4							
332	7.43	34.131	1.57	2.60	53	32.6	135.5							
413	6.63	34.170	1.06	2.84	64	35.9	122.2							
495	5.80	34.188	.72	3.00	75	39.4	110.7							
576	5.41	34.286	.39	3.16	84	40.8	98.8							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
80.90								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 15 1968, 1641 GMT, 33 14N 123 13W, SOUNDING 2375 FM, WIND 330 18 KNOTS, WEATHER OVERCAST, SEA VERY ROUGH.

0	15.15	33.25	-	24.61	333.6	0
10	15.14	33.25	-	24.61	333.4	.033
20	15.13	33.25	-	24.62	333.2	.067
30	15.14	33.25	-	24.61	333.4	.100
50	13.93	33.23	-	24.86	310.4	.165
75	13.02	33.28	-	25.08	289.2	.240
100	11.32	33.34	-	25.45	254.1	.309
125	9.90	33.53	-	25.84	216.5	.368
150	9.17	33.79	-	26.16	185.9	.419
200	8.40	34.00	-	26.45	158.9	.507
250	7.58	34.01	-	26.58	146.6	.585
300	7.08	34.06	-	26.69	136.2	.658
400	6.00	34.11	-	26.87	118.9	.790
500	5.50	34.21	-	27.01	105.5	.908
600	4.95	34.27	-	27.12	94.9	1.015

82.47 CALCOFI CRUISE 6806 82.47

DAVID STARR JORDAN, JUNE 14 1968, 0759 GMT, 34 15N 119 59W, SOUNDING 310 FM, WIND 340 4 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	13.36	33.88	-	25.47	251.6	0
10	12.28	33.84	-	25.66	234.3	.024
20	11.37	33.89	-	25.86	214.4	.047
30	10.17	33.96	-	26.13	189.1	.067
50	9.45	33.98	-	26.27	176.1	.104
75	9.14	34.04	-	26.37	166.9	.147
100	8.89	34.12	-	26.47	157.2	.188
125	8.65	34.15	-	26.53	151.4	.227
150	8.50	34.17	-	26.57	147.7	.265
200	8.02	34.17	-	26.64	140.8	.339
250	7.84	34.17	-	26.67	138.3	.410
300	7.68	34.19	-	26.71	134.6	.481
400	6.93	34.22	-	26.84	122.3	.615

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
82.47								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 14 1968, 0835 GMT, 34 15N 119 59W, SOUNDING 310 FM, WIND 340 4 KNOTS, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 10.

0	13.4	K	33.88	K	-	-	252.4	0	13.40	33.880	-0	25.47	252.4	0
10	12.58	33.891	5.98	0.84	13	7.7	236.1	10	12.58	33.891	5.98	25.64	236.1	.024
29	10.35	33.940	3.88	1.75	24	19.1	193.5	20	11.38	33.915	4.60	25.88	212.8	.047
43	9.49	33.967	2.73	1.65	32	18.9	177.7	30	10.26	33.943	3.77	26.10	191.8	.067
52	9.43	33.964	2.63	1.52	33	20.0	177.0	50	9.44	33.965	2.65	26.26	177.2	.104
66	9.28	33.989	2.50	2.13	34	25.0	172.8	75	9.13	34.023	2.27	26.35	168.0	.148
81	9.03	34.049	2.11	2.09	36	25.9	164.6	100	8.82	34.110	1.92	26.47	157.0	.189
95	8.88	34.100	1.98	2.10	38	26.0	158.5	125	8.60	34.134	1.68	26.52	151.9	.228
119	8.64	34.130	1.71	2.06	41	27.5	152.7	150	8.46	34.152	1.55	26.56	148.5	.266
139	8.53	34.142	1.62	2.47	43	29.8	150.2	200	8.01	34.159	1.17	26.63	141.5	.340
166	8.34	34.163	1.43	2.33	47	27.8	145.9	250	7.86	34.166	1.04	26.66	138.9	.412
195	8.04	34.159	1.19	2.35	51	30.5	141.9	300	7.73	34.180	1.00	26.69	136.0	.483
224	7.92	34.163	1.12	2.76	53	32.4	139.9	400	6.90	34.221	.44	26.84	121.8	.618
263	7.84	34.168	1.01	2.75	55	33.0	138.4	500	6.51	34.245	.29	26.91	115.0	.743
321	7.62	34.188	.99	2.71	56	32.7	133.9							
373	7.11	34.209	.56	2.74	67	31.8	125.5							
433	6.70	34.232	.34	3.14	77	33.4	118.4							
490	6.52	34.244	.30	3.10	80	31.4	115.2							

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
CALCOFI CRUISE 6806												83.43		

DAVID STARR JORDAN, JUNE 14 1968, 0447 GMT, 34 08N 119 34W, SOUNDING 130 FM, WIND 340 1 KNOT, WEATHER MISSING,
SEA MISSING.

0	13.59	33.90	-	25.44	254.6	0
10	12.16	33.91	-	25.73	227.0	.024
20	12.02	33.90	-	25.75	225.2	.047
30	11.71	33.92	-	25.83	218.2	.069
50	11.07	33.93	-	25.95	206.3	.112
75	9.74	33.94	-	26.19	183.6	.161
100	9.21	34.06	-	26.37	166.5	.205
125	8.92	34.12	-	26.46	157.6	.246
150	8.78	34.16	-	26.52	152.6	.285
200	8.44	34.20	-	26.60	144.6	.361

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 6806												83.43		

DAVID STARR JORDAN, JUNE 14 1968, 0522 GMT, 34 08N 119 34W, SOUNDING 130 FM, WIND 340 1 KNOT, WEATHER MISSING,
SEA SLIGHT, WIRE ANGLE 03.

2	13.60	33.884	6.34	0.96	11	8.5	256.0	0	13.60	33.884	6.34	25.43	256.0	0
12	12.09	33.914	6.13	0.95	13	7.2	225.4	10	12.32	33.910	6.15	25.70	229.9	.024
31	11.77	33.901	6.34	0.94	11	9.1	220.7	20	11.98	33.912	6.30	25.77	223.6	.047
46	11.12	33.911	4.94	1.41	17	14.7	208.6	30	11.79	33.902	6.35	25.80	220.9	.069
56	10.99	33.917	4.70	1.50	18	15.6	205.9	50	11.08	33.913	4.84	25.94	207.7	.112
70	10.16	33.936	3.63	1.92	26	20.1	190.7	75	9.88	33.954	3.28	26.18	184.9	.162
85	9.45	33.989	2.74	2.09	32	23.9	175.5	100	9.34	33.998	2.70	26.30	173.2	.207
105	9.30	34.005	2.66	2.13	32	24.8	172.0	125	8.96	34.099	2.16	26.44	159.8	.249
128	8.91	34.114	2.08	2.33	38	27.1	157.9	150	8.79	34.146	1.93	26.50	153.7	.289
148	8.80	34.142	1.95	2.44	40	28.1	154.2	200	8.44	34.195	1.40	26.60	145.0	.365
177	8.61	34.184	1.67	2.50	43	29.4	148.3							
202	8.43	34.195	1.37	2.62	46	29.9	144.8							

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
CALCOFI CRUISE 6806												83.51		

DAVID STARR JORDAN, JUNE 14 1968, 1250 GMT, 33 52N 120 08.5W, SOUNDING 60 FM, WIND 300 4 KNOTS, WEATHER CLEAR,
SEA ROUGH.

0	13.53	33.61	-	25.23	274.7	0
10	12.72	33.62	-	25.40	258.6	.027
20	12.50	33.60	-	25.43	256.0	.052
30	11.01	33.58	-	25.69	231.1	.077
50	10.62	33.76	-	25.90	211.3	.121
75	9.18	34.03	-	26.35	168.3	.169
100	9.01	34.07	-	26.41	162.7	.211

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
CALCOFI CRUISE 6806												83.55		

DAVID STARR JORDAN, JUNE 14 1968, 1455 GMT, 33 45N 120 22.5W, SOUNDING 675 FM, WIND 320 14 KNOTS, WEATHER CLEAR,
SEA ROUGH.

0	12.66	33.70	-	25.47	251.6	0
10	12.65	33.70	-	25.48	251.4	.025
20	12.51	33.66	-	25.47	251.8	.050
30	11.62	33.69	-	25.66	233.5	.075
50	10.15	33.75	-	25.97	204.3	.119
75	8.95	33.87	-	26.26	176.6	.167
100	8.84	34.07	-	26.44	160.2	.209
125	8.64	34.10	-	26.49	155.0	.249
150	8.48	34.17	-	26.57	147.4	.287
200	8.04	34.23	-	26.68	136.6	.360
250	7.83	34.23	-	26.72	133.7	.429
300	7.63	34.24	-	26.75	130.2	.498
400	7.08	34.24	-	26.83	122.7	.630
500	6.25	34.28	-	26.97	109.2	.752
600	5.58	34.31	-	27.08	98.9	.863

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
83.60 CALCOFI CRUISE 6806														

DAVID STARR JORDAN, JUNE 14 1968, 1747 GMT, 33 34N 120 45W, SOUNDING 800 FM, WIND 330 20 KNOTS, WEATHER CLEAR,
SEA HIGH.

0	13.35	33.50	-	25.18	279.3	0
10	13.34	33.51	-	25.19	278.4	.028
20	12.72	33.52	-	25.32	266.0	.055
30	12.46	33.49	-	25.35	263.4	.082
50	11.42	33.54	-	25.58	241.1	.132
75	10.94	33.64	-	25.75	225.5	.191
100	9.64	33.63	-	25.96	205.0	.245
125	9.11	33.80	-	26.18	184.3	.294
150	8.62	33.94	-	26.37	166.5	.339
200	7.65	33.99	-	26.55	149.0	.419
250	7.18	34.01	-	26.64	141.2	.494
300	7.04	34.13	-	26.75	130.4	.564
400	6.27	34.22	-	26.92	113.9	.691
500	5.81	34.27	-	27.02	104.6	.806
600	5.17	34.30	-	27.12	95.0	.913

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
83.60 CALCOFI CRUISE 6806														

DAVID STARR JORDAN, JUNE 14 1968, 1841 GMT, 33 34N 120 45W, SOUNDING 800 FM, WIND 330 20 KNOTS, WEATHER CLEAR,
SEA VERY HIGH, WIRE ANGLE 18.

2	13.35	33.499	6.15	0.76	4	5.3	279.4	0	13.35	33.499	6.15	25.18	279.4	0
11	13.34	33.497	6.12	0.77	5	5.3	279.4	10	13.34	33.498	6.12	25.18	279.4	.028
29	12.75	33.474	6.00	0.81	4	6.1	269.9	20	13.09	33.483	6.08	25.22	275.7	.056
39	12.43	33.489	5.81	0.84	5	6.3	262.9	30	12.72	33.475	5.98	25.29	269.4	.083
51	11.63	33.513	5.47	1.05	8	9.0	246.8	50	11.70	33.510	5.50	25.51	248.2	.135
66	11.11	33.598	5.27	1.26	10	11.4	231.5	75	10.85	33.620	5.09	25.75	225.4	.195
88	10.41	-	4.70	1.28	13	12.2	-	100	9.78	33.636	4.12	25.95	206.7	.249
106	9.48	33.653	3.84	1.62	23	19.5	200.8	125	9.12	33.781	3.50	26.17	185.8	.299
124	9.14	33.773	3.52	1.77	27	22.2	186.7	150	8.67	33.936	3.10	26.36	167.6	.343
143	8.79	33.909	3.16	1.96	33	24.4	171.4	200	8.00	33.995	3.01	26.51	153.5	.425
170	8.35	33.976	3.04	2.05	36	26.3	159.9	250	7.28	34.016	2.58	26.63	142.1	.501
204	7.95	33.997	3.00	2.06	39	26.4	152.7	300	6.94	34.104	1.66	26.74	131.1	.571
231	7.47	33.995	2.86	2.21	44	28.9	146.2	400	6.31	34.226	.73	26.92	113.9	.699
278	7.09	34.063	2.06	2.47	52	31.9	136.1	500	5.92	34.278	.40	27.01	105.4	.815
329	6.75	34.155	1.20	2.55	60	33.9	124.8							
411	6.25	34.233	.70	3.00	70	37.9	112.7							
490	5.98	34.273	.42	3.16	75	38.8	106.4							
572	5.34	34.311	.31	3.20	84	40.6	96.1							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
83.70 CALCOFI CRUISE 6806														

DAVID STARR JORDAN, JUNE 15 1968, 0012 GMT, 33 14.5N 121 26W, SOUNDING 2100 FM, WIND 310 22 KNOTS, WEATHER CLOUDY,
SEA HIGH.

0	14.87	33.25	-	24.67	327.8	0
10	14.87	33.26	-	24.68	327.1	.033
20	14.86	33.26	-	24.68	326.9	.066
30	14.85	33.26	-	24.68	326.7	.098
50	14.07	33.12	-	24.74	321.3	.163
75	10.96	33.19	-	25.40	259.1	.236
100	9.93	33.55	-	25.85	215.5	.296
125	9.37	33.71	-	26.07	194.9	.348
150	9.03	33.86	-	26.24	178.6	.395
200	8.40	34.03	-	26.47	156.6	.481
250	7.75	34.08	-	26.61	143.7	.558
300	7.23	34.14	-	26.73	132.2	.629
400	6.42	34.19	-	26.88	118.0	.759
500	5.80	34.25	-	27.01	106.0	.877
600	5.40	34.30	-	27.10	97.6	.986

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	DST	Z	T	S	OXY	SIGHT	DST	DD
83.80						CALCOFI CRUISE 6806						83.80		
DAVID STARR JORDAN, JUNE 15 1968, 0522 GMT, 32 55N 122 07W, SOUNDING 2300 FM, WIND 330 16 KNOTS, WEATHER MISSING, SEA MISSING.														
0	14.41	33.26	-	24.78	317.8	0								
10	14.41	33.26	-	24.78	317.8	.032								
20	14.41	33.26	-	24.78	317.8	.064								
30	14.39	33.26	-	24.78	317.4	.095								
50	13.74	33.30	-	24.95	301.6	.158								
75	12.07	33.44	-	25.39	260.0	.228								
100	10.13	33.41	-	25.71	229.1	.290								
125	9.39	33.71	-	26.07	195.2	.343								
150	9.01	33.83	-	26.22	180.5	.391								
200	8.52	34.01	-	26.44	159.9	.478								
250	7.81	34.06	-	26.58	146.0	.556								
300	7.28	34.09	-	26.68	136.6	.629								
400	6.46	34.18	-	26.87	119.3	.762								
500	5.63	34.22	-	27.00	106.3	.881								
600	5.29	34.30	-	27.11	96.4	.989								
83.90						CALCOFI CRUISE 6806						83.90		
DAVID STARR JORDAN, JUNE 15 1968, 1014 GMT, 32 35N 122 50.5W, SOUNDING 2350 FM, WIND 330 17 KNOTS, WEATHER MISSING, SEA MISSING.														
0	15.55	33.28	-	24.55	339.8	0								
10	15.53	33.28	-	24.55	339.4	.034								
20	15.37	33.27	-	24.58	336.7	.068								
30	15.19	33.26	-	24.61	333.7	.101								
50	14.88	33.26	-	24.68	327.3	.168								
75	13.57	33.19	-	24.90	306.3	.247								
100	11.43	33.24	-	25.35	263.4	.319								
125	9.93	33.53	-	25.84	217.0	.380								
150	9.31	33.68	-	26.06	196.2	.432								
200	8.59	33.92	-	26.36	167.6	.525								
250	7.80	34.00	-	26.54	150.4	.606								
300	7.04	34.02	-	26.66	138.6	.680								
400	6.06	34.09	-	26.85	121.1	.815								
500	5.60	34.23	-	27.02	105.2	.934								
600	5.13	34.28	-	27.11	96.1	1.041								
87.35						CALCOFI CRUISE 6806						87.35		
DAVID STARR JORDAN, JUNE 13 1968, 2120 GMT, 33 50N 118 37.5W, SOUNDING 245 FM, WIND 240 4 KNOTS, WEATHER PARTLY CLOUDY, SEA MODERATE.														
0	18.83	33.62	-	24.03	389.0	0								
10	18.55	33.56	-	24.06	386.7	.039								
20	13.11	33.48	-	25.21	276.2	.072								
30	11.25	33.55	-	25.62	237.4	.098								
50	10.20	33.67	-	25.90	211.0	.143								
75	9.78	33.87	-	26.13	189.5	.193								
100	9.50	33.98	-	26.26	176.9	.239								
125	9.22	34.04	-	26.35	168.1	.283								
150	9.08	34.10	-	26.42	161.6	.325								
200	8.93	34.21	-	26.53	151.1	.405								
250	8.60	34.24	-	26.61	144.0	.481								
300	8.20	34.27	-	26.69	135.9	.553								
400	7.50	34.29	-	26.81	124.6	.689								
87.40						CALCOFI CRUISE 6806						87.40		
DAVID STARR JORDAN, JUNE 13 1968, 1834 GMT, 33 40N 118 58W, SOUNDING 435 FM, WIND 210 2 KNOTS, WEATHER CLOUDY, SEA MODERATE.														
0	15.04	33.70	-	24.98	298.4	0								
10	11.05	33.41	-	25.55	244.3	.027								
20	10.63	33.67	-	25.83	218.1	.050								
30	10.19	33.79	-	26.00	202.0	.071								
50	9.90	33.86	-	26.10	192.1	.111								
75	9.42	33.98	-	26.27	175.7	.157								
100	8.98	34.08	-	26.42	161.5	.200								
125	8.73	34.12	-	26.49	154.8	.240								
150	8.57	34.15	-	26.54	150.2	.279								
200	8.19	34.21	-	26.65	140.2	.353								
250	7.89	34.25	-	26.72	133.0	.423								
300	7.51	34.26	-	26.79	127.0	.490								
400	6.47	34.29	-	26.95	111.2	.615								
500	5.99	34.33	-	27.05	102.3	.728								
600	5.40	34.37	-	27.15	92.4	.832								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS IF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DST	Z	T	S	OXY	SIGT	DST	DD	
87.45								CALCOFI CRUISE 6806							87.45

DAVID STARR JORDAN, JUNE 13 1968, 1548 GMT, 33 30N 119 19W, SOUNDING 925 FM, WIND 130 2 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	14.98	33.62	-	24.93	303.0	0
10	13.31	33.60	-	25.27	271.2	.029
20	10.93	33.76	-	25.84	216.5	.053
30	10.03	33.68	-	25.94	207.5	.074
50	9.48	33.90	-	26.20	182.5	.114
75	9.21	33.99	-	26.31	171.7	.158
100	8.80	34.06	-	26.43	160.3	.200
125	8.63	34.10	-	26.49	154.8	.240
150	8.47	34.13	-	26.54	150.2	.279
200	8.15	34.17	-	26.62	142.6	.354
250	7.74	34.20	-	26.71	134.6	.425
300	7.40	34.22	-	26.77	128.5	.493
400	6.67	34.27	-	26.91	115.2	.620
500	5.89	34.32	-	27.05	101.8	.735
600	5.40	34.35	-	27.13	93.9	.839

87.50 CALCOFI CRUISE 6806 87.50

DAVID STARR JORDAN, JUNE 13 1968, 1309 GMT, 33 20N 119 39.5W, SOUNDING 40 FM, WIND 310 10 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	13.09	33.70	-	25.39	259.7	0
10	13.10	33.70	-	25.39	259.9	.026
20	13.08	33.71	-	25.40	258.8	.052
30	12.13	33.76	-	25.62	237.5	.077
50	9.91	33.85	-	26.09	193.0	.120

87.60 CALCOFI CRUISE 6806 87.60

DAVID STARR JORDAN, JUNE 13 1968, 0632 GMT, 33 00N 120 20W, SOUNDING 340 FM, WIND 320 18 KNOTS, WEATHER CLEAR, SEA VERY ROUGH.

0	14.87	33.36	-	24.76	319.8	0
10	14.88	33.36	-	24.75	320.0	.032
20	14.89	33.36	-	24.75	320.2	.064
30	14.87	33.36	-	24.76	319.8	.096
50	13.07	33.35	-	25.12	285.0	.157
75	11.06	33.35	-	25.50	249.3	.224
100	9.27	33.73	-	26.10	191.9	.280
125	8.90	33.86	-	26.26	176.6	.326
150	8.57	33.94	-	26.38	165.8	.370
200	8.25	34.08	-	26.54	150.8	.450
250	7.78	34.18	-	26.68	136.7	.524
300	7.37	34.23	-	26.78	127.4	.592
400	6.46	34.27	-	26.94	112.5	.718
500	5.97	34.31	-	27.03	103.5	.832

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	DST	Z	T	S	OXY	SIGT	DST	DD	
87.60								CALCOFI CRUISE 6806							87.60

DAVID STARR JORDAN, JUNE 13 1968, 0730 GMT, 33 00N 120 20W, SOUNDING 340 FM, WIND 320 18 KNOTS, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 10.

1	14.91	33.352	5.99	0.38	1	0.0	321.2	0	14.91	33.352	5.99	24.74	321.2	0
11	14.93	33.354	6.00	0.29	1	0.0	321.5	10	14.93	33.354	6.00	24.74	321.4	.032
20	14.93	33.354	-	-	-	-	321.5	20	14.93	33.354	6.01	24.74	321.5	.064
30	14.93	33.354	6.01	0.34	1	0.1	321.5	30	14.93	33.354	6.01	24.74	321.5	.097
39	14.02	33.331	6.07	0.46	2	1.1	304.8	50	13.34	33.331	6.10	25.05	291.6	.158
49	13.45	33.337	6.12	0.53	2	1.6	293.2	75	10.90	33.357	5.01	25.54	245.7	.226
62	11.97	33.279	5.73	0.76	7	5.3	270.0	100	9.76	33.532	4.29	25.87	214.1	.284
76	10.83	33.366	4.95	1.07	11	10.4	243.9	125	9.14	33.753	3.75	26.14	188.3	.334
95	9.92	33.489	4.43	1.36	17	15.4	219.9	150	8.69	33.931	3.20	26.35	168.2	.380
119	9.28	33.702	3.83	1.61	25	20.6	194.1	200	8.09	34.143	1.75	26.61	143.9	.459
138	8.88	33.854	3.55	1.81	30	22.7	176.8	250	7.73	34.181	1.38	26.69	135.9	.531
167	8.46	34.021	2.63	2.14	40	27.1	158.2	300	7.35	34.200	1.16	26.76	129.4	.600
195	8.15	34.132	1.83	2.41	47	30.4	145.5	400	6.44	34.271	.56	26.94	112.2	.726
224	7.86	34.172	1.49	2.59	52	32.0	138.4	500	5.94	34.319	.39	27.04	102.6	.839
261	7.68	34.185	1.35	2.64	55	33.0	134.9							
321	7.15	34.210	1.04	2.78	62	34.7	125.9							
394	6.48	34.268	.58	2.98	73	37.2	112.9							
487	6.09	34.305	.43	3.08	79	38.5	105.4							
544	5.77	34.334	.38	3.05	84	40.0	99.4							

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	DOT	Z	T	S	OXY	SIGHT	DOT	DD
CALCOFI CRUISE 6806												87.70		

DAVID STARR JORDAN, JUNE 13 1968, 0000 GMT, 32 42N 121 01W, SOUNDING 2100 FM, WIND 340 17 KNOTS, WEATHER PARTLY CLOUDY, SEA VERY ROUGH.

0	15.06	33.30	-	24.67	328.1	0
10	15.05	33.30	-	24.67	327.9	.033
20	14.93	33.31	-	24.71	324.7	.065
30	14.81	33.31	-	24.73	322.2	.098
50	14.42	33.30	-	24.81	315.0	.162
75	12.48	33.21	-	25.13	284.3	.237
100	11.03	33.29	-	25.46	252.9	.305
125	9.81	33.54	-	25.87	214.4	.364
150	9.34	33.72	-	26.08	193.7	.415
200	8.43	33.96	-	26.41	162.3	.506
250	7.62	34.02	-	26.58	146.4	.585
300	7.12	34.05	-	26.68	137.4	.658
400	6.16	34.12	-	26.86	120.0	.792
500	5.67	34.25	-	27.02	104.5	.910
600	5.17	34.30	-	27.12	95.0	1.016

87.80 CALCOFI CRUISE 6806 87.80

DAVID STARR JORDAN, JUNE 12 1968, 1819 GMT, 32 19N 121 44W, SOUNDING 2150 FM, WIND 340 10 KNOTS, WEATHER PARTLY CLOUDY, SEA ROUGH.

0	15.12	33.29	-	24.65	330.1	0
10	15.10	33.29	-	24.65	329.7	.033
20	14.69	33.29	-	24.74	321.2	.066
30	14.42	33.31	-	24.81	314.3	.097
50	13.83	33.31	-	24.94	302.6	.159
75	13.63	33.34	-	25.00	296.5	.235
100	11.40	33.28	-	25.39	259.9	.305
125	9.91	33.52	-	25.83	217.4	.365
150	9.21	33.77	-	26.14	188.0	.416
200	8.58	33.97	-	26.40	163.7	.506
250	7.67	34.00	-	26.56	148.6	.586
300	7.02	34.05	-	26.69	136.1	.659
400	6.14	34.14	-	26.88	118.3	.791
500	5.51	34.20	-	27.00	106.4	.909
600	5.26	34.30	-	27.11	96.1	1.017

87.90 CALCOFI CRUISE 6806 87.90

DAVID STARR JORDAN, JUNE 12 1968, 1215 GMT, 31 59N 122 27W, SOUNDING 2200 FM, WIND 320 17 KNOTS, WEATHER PARTLY CLOUDY, SEA ROUGH.

0	15.71	33.42	-	24.62	333.0	0
10	15.72	33.43	-	24.62	332.4	.033
20	15.72	33.43	-	24.62	332.4	.067
30	15.72	33.43	-	24.62	332.4	.100
50	15.09	33.41	-	24.75	320.7	.165
75	13.79	33.38	-	25.00	296.7	.243
100	11.93	33.42	-	25.40	258.9	.313
125	10.38	33.53	-	25.76	224.3	.374
150	9.75	33.72	-	26.02	200.1	.428
200	8.60	33.96	-	26.39	164.8	.521
250	7.86	34.03	-	26.55	149.0	.601
300	7.30	34.05	-	26.65	139.8	.675
400	6.25	34.14	-	26.86	119.7	.810
500	5.80	34.27	-	27.02	104.5	.928
600	5.40	34.35	-	27.13	93.9	1.034

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
CALCOFI CRUISE 6806														
90.28														90.28

DAVID STARR JORDAN, JUNE 10 1968, 2225 GMT, 33 28.5N 117 46.5W, SOUNDING 165 FM, WIND 290 14 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	18.91	33.63	-	24.02	390.2	0
10	17.83	33.58	-	24.25	368.4	.038
20	10.86	33.60	-	25.73	227.1	.068
30	10.23	33.68	-	25.90	210.7	.090
50	9.93	33.85	-	26.09	193.3	.130
75	9.63	33.96	-	26.22	180.4	.177
100	9.25	34.04	-	26.35	168.6	.221
125	9.07	34.09	-	26.42	162.1	.263
150	8.92	34.18	-	26.51	153.2	.303
200	8.70	34.26	-	26.61	144.0	.379
250	8.45	34.29	-	26.67	138.1	.452

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 6806														
90.28														90.28

DAVID STARR JORDAN, JUNE 10 1968, 2255 GMT, 33 28.5N 117 46.5W, SOUNDING 165 FM, WIND 190 14 KNOTS, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 18°.

1	19.12	33.632	6.26	0.22	4	0.0	395.1	0	19.12	33.632	6.26	23.97	395.1	0
11	17.54	33.579	5.78	0.32	5	0.1	361.8	10	17.97	33.581	5.85	24.21	371.5	.038
20	11.00K	-	-	-	-	-	-	20	11.00	33.605	4.71	25.71	229.1	.068
31	10.34	33.683	3.45	1.52	22	17.7	212.3	30	10.39	33.674	3.56	25.87	213.8	.091
45	9.97	33.793	3.12	1.76	26	21.6	198.2	50	9.94	33.816	3.06	26.06	196.0	.132
56	9.91	33.839	3.00	1.78	27	22.2	193.8	75	9.62	33.927	2.92	26.20	182.7	.179
70	9.69	33.903	2.90	1.84	29	23.3	185.6	100	9.23	33.975	2.84	26.30	173.1	.224
85	9.48	33.967	2.97	1.89	31	24.4	177.6	125	9.01	34.046	2.57	26.39	164.5	.267
105	9.15	33.980	2.78	1.96	32	24.6	171.5	150	8.78	34.136	2.12	26.50	154.4	.308
129	8.99	34.062	2.52	2.06	36	26.5	163.0	200	8.71	34.237	1.49	26.59	145.9	.384
148	8.79	34.129	2.16	2.23	40	28.0	155.0	250	8.40	34.278	1.10	26.67	138.3	.457
182	8.75	34.217	1.63	2.46	44	29.9	147.9							
211	8.67	34.248	1.40	2.46	46	30.4	144.4							
249	8.41	34.277	1.11	2.65	49	32.0	138.4							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
CALCOFI CRUISE 6806														
90.32														90.32

DAVID STARR JORDAN, JUNE 11 1968, 0103 GMT, 33 20N 118 02W, SOUNDING 410 FM, WIND 310 14 KNOTS, WEATHER CLEAR, SEA MODERATE.

0	17.84	33.58	-	24.24	368.6	0
10	12.89	33.41	-	25.20	277.2	.032
20	11.53	33.53	-	25.56	243.8	.058
30	10.63	33.64	-	25.80	220.3	.082
50	9.90	33.81	-	26.06	195.8	.123
75	9.72	33.94	-	26.19	183.3	.171
100	9.51	34.02	-	26.29	174.1	.216
125	9.25	34.10	-	26.39	164.1	.259
150	9.14	34.16	-	26.46	158.0	.300
200	9.03	34.21	-	26.52	152.6	.379
250	8.86	34.25	-	26.57	147.1	.456
300	8.57	34.28	-	26.64	140.6	.531
400	7.37	34.29	-	26.83	122.9	.669
500	6.47	34.32	-	26.98	108.9	.791
600	5.64	34.33	-	27.09	98.1	.902

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
90.37								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 11 1968, 0333 GMT, 33 11N 118 22.5W, SOUNDING 650 FM, WIND 290 10 KNOTS, WEATHER CLEAR, SEA ROUGH.													90.37	
0	17.60	33.61	-	24.33	360.9	0								
10	16.81	33.56	-	24.47	346.7	.035								
20	12.35	33.54	-	25.41	257.7	.066								
30	11.58	33.52	-	25.54	245.4	.091								
50	10.25	33.61	-	25.85	216.3	.137								
75	9.61	33.80	-	26.10	192.0	.189								
100	9.17	33.92	-	26.27	176.3	.235								
125	8.81	33.96	-	26.35	167.9	.279								
150	8.68	34.07	-	26.46	157.8	.320								
200	8.21	34.16	-	26.60	144.2	.397								
250	7.62	34.17	-	26.70	135.2	.469								
300	7.19	34.18	-	26.77	128.7	.537								
400	6.69	34.28	-	26.92	114.7	.664								
500	6.06	34.33	-	27.04	102.9	.779								
600	5.50	34.34	-	27.11	95.8	.885								

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
90.37								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 11 1968, 0424 GMT, 33 11N 118 22.5W, SOUNDING 650 FM, WIND 290 10 KNOTS, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 00.													90.37	
2	17.49	33.604	5.90	0.24	4	0.0	358.8	0	17.49	33.604	5.90	24.35	358.8	0
12	17.05	33.594	6.05	0.19	4	0.2	349.6	10	17.28	33.598	6.07	24.39	354.5	.036
30	11.79	33.528	4.77	0.72	13	7.0	248.5	20	14.73	33.561	5.55	24.94	302.3	.069
40	11.21	33.547	4.47	1.19	15	12.1	237.0	30	11.79	33.528	4.77	25.51	248.5	.096
54	10.27	33.606	3.87	1.48	20	17.2	216.9	50	10.52	33.586	4.03	25.78	222.5	.143
69	9.84	33.705	3.63	1.64	23	19.2	202.6	75	9.71	33.738	3.54	26.04	198.1	.196
94	9.35	33.831	3.27	1.66	27	19.3	185.6	100	9.23	33.863	3.22	26.21	181.4	.244
113	8.99	-	-	-	-	-	-	125	8.81	33.986	2.99	26.37	166.0	.288
132	8.73	34.017	2.91	1.99	35	24.5	162.5	150	8.56	34.079	2.53	26.49	155.4	.329
152	8.55	34.085	2.49	2.14	39	26.7	154.7	200	8.25	34.158	1.91	26.60	144.9	.406
182	8.39	34.144	2.09	2.35	44	28.0	148.0	250	7.66	34.154	1.65	26.68	137.0	.478
214	8.11	34.161	1.81	2.44	48	29.4	142.7	300	7.23	34.144	1.39	26.73	131.9	.547
244	7.73	34.158	1.68	2.53	51	31.4	137.6	400	6.76	34.275	1.68	26.90	115.9	.677
293	7.28	34.138	1.44	2.65	57	32.9	133.0	500	6.09	34.333	1.40	27.04	103.2	.793
348	6.98	34.209	1.02	2.72	62	33.8	123.7	600	5.54	34.357	1.43	27.12	95.0	.899
431	6.61	34.307	.52	2.94	70	36.2	111.7							
513	6.00	34.337	.39	3.06	79	38.5	101.9							
596	5.56	34.356	.42	3.06	85	37.9	95.3							

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
90.45								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 11 1968, 0805 GMT, 32 54.5N 118 55W, SOUNDING 1000 FM, WIND 290 10 KNOTS, WEATHER CLEAR, SEA ROUGH.													90.45	
0	15.69	33.64	-	24.79	316.5	0								
10	15.68	33.64	-	24.79	316.2	.032								
20	11.91	33.38	-	25.37	261.5	.061								
30	10.41	33.77	-	25.94	207.0	.084								
50	9.37	33.87	-	26.20	183.0	.123								
75	8.97	33.94	-	26.31	171.8	.168								
100	8.77	34.01	-	26.40	163.6	.210								
125	8.72	34.07	-	26.46	158.4	.251								
150	8.59	34.15	-	26.54	150.5	.290								
200	8.15	34.18	-	26.63	141.9	.365								
250	7.67	34.22	-	26.73	132.2	.435								
300	7.21	34.24	-	26.81	124.5	.502								
400	6.42	34.28	-	26.95	111.3	.625								
500	5.86	34.32	-	27.05	101.5	.737								
600	5.37	34.36	-	27.15	92.8	.841								

OBSERVED LEVELS OF DEPTH								CALCOFI CRUISE 6806							
Z	T	S	DXY	PHO	SIL	NTT	DET	Z	T	S	DXY	SIGHT	DET	DD	
90.53															
DAVID STARR JORDAN, JUNE 11 1968, 1200 GMT, 32 38N 119 28W, SOUNDING 625 FM, WIND 320 16 KNOTS, WEATHER DRIZZLE, SEA ROUGH.															
0	14.37	33.40	-	24.89	306.7	0		0	14.38	33.41	-	24.90	306.2	.031	
10	14.38	33.41	-	24.90	306.2	.031		20	13.68	33.43	-	25.06	290.9	.061	
20	13.68	33.43	-	25.06	290.9	.061		30	12.02	33.49	-	25.43	255.4	.068	
30	12.02	33.49	-	25.43	255.4	.068		50	11.25	33.54	-	25.61	238.2	.137	
50	11.25	33.54	-	25.61	238.2	.137		75	10.44	33.64	-	25.84	217.1	.195	
75	10.44	33.64	-	25.84	217.1	.195		100	9.44	33.84	-	26.16	186.4	.246	
100	9.44	33.84	-	26.16	186.4	.246		125	8.91	33.96	-	26.34	169.4	.291	
125	8.91	33.96	-	26.34	169.4	.291		150	8.49	34.01	-	26.44	159.4	.332	
150	8.49	34.01	-	26.44	159.4	.332		200	7.94	34.08	-	26.58	146.4	.410	
200	7.94	34.08	-	26.58	146.4	.410		250	7.23	34.16	-	26.75	130.7	.481	
250	7.23	34.16	-	26.75	130.7	.481		300	6.91	34.18	-	26.81	125.0	.547	
300	6.91	34.18	-	26.81	125.0	.547		400	6.63	34.28	-	26.92	113.9	.672	
400	6.63	34.28	-	26.92	113.9	.672		500	5.93	34.32	-	27.05	102.3	.786	
90.60															
CALCOFI CRUISE 6806															
90.60															
DAVID STARR JORDAN, JUNE 11 1968, 1626 GMT, 32 25.5N 119 58W, SOUNDING 600 FM, WIND 320 16 KNOTS, WEATHER OVERCAST, SEA ROUGH.															
0	14.54	33.41	-	24.87	307.4	0		10	14.52	33.41	-	24.87	309.0	.031	
10	14.52	33.41	-	24.87	309.0	.031		20	13.79	33.41	-	25.02	294.5	.061	
20	13.79	33.41	-	25.02	294.5	.061		30	13.14	33.48	-	25.21	276.8	.090	
30	13.14	33.48	-	25.21	276.8	.090		50	12.05	33.54	-	25.47	252.2	.143	
50	12.05	33.54	-	25.47	252.2	.143		75	10.10	33.55	-	25.82	218.3	.202	
75	10.10	33.55	-	25.82	218.3	.202		100	9.49	33.77	-	26.10	192.3	.254	
100	9.49	33.77	-	26.10	192.3	.254		125	9.03	33.95	-	26.31	171.9	.300	
125	9.03	33.95	-	26.31	171.9	.300		150	8.51	33.99	-	26.43	161.2	.342	
150	8.51	33.99	-	26.43	161.2	.342		200	7.83	34.07	-	26.59	145.6	.420	
200	7.83	34.07	-	26.59	145.6	.420		250	7.23	34.09	-	26.69	135.9	.493	
250	7.23	34.09	-	26.69	135.9	.493		300	6.81	34.14	-	26.79	126.7	.560	
300	6.81	34.14	-	26.79	126.7	.560		400	6.26	34.22	-	26.92	113.8	.685	
400	6.26	34.22	-	26.92	113.8	.685		500	5.84	34.29	-	27.03	103.5	.800	
500	5.84	34.29	-	27.03	103.5	.800		600	5.39	34.34	-	27.13	94.5	.906	
INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	DXY	PHO	SIL	NTT	DET	Z	T	S	DXY	SIGHT	DET	DD	
90.60															
CALCOFI CRUISE 6806															
90.60															
DAVID STARR JORDAN, JUNE 11 1968, 1721 GMT, 32 25.5N 119 58W, SOUNDING 600 FM, WIND 320 16 KNOTS, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 19.															
2	14.52	33.407	6.06	0.42	2	0.7	309.2	0	14.52	33.407	6.06	24.87	309.2	0	
11	14.51	33.404	6.07	0.40	2	0.7	309.2	10	14.51	33.404	6.07	24.87	309.2	.031	
29	13.95	33.401	6.09	0.48	3	1.6	298.3	20	14.36	33.402	6.09	24.90	306.3	.062	
39	13.05	33.360	6.00	0.51	4	2.2	283.9	30	13.87	33.395	6.08	25.00	297.1	.092	
53	12.01	33.487	5.78	0.75	6	5.9	255.4	50	12.23	33.455	5.85	25.37	261.7	.148	
68	10.75	33.511	5.03	1.12	12	11.1	231.8	75	10.34	33.543	4.70	25.78	222.7	.209	
92	9.68	33.651	3.97	1.45	22	17.6	204.1	100	9.50	33.724	3.63	26.06	195.8	.262	
109	9.34	-	-	-	-	-	-	125	9.03	33.920	2.98	26.29	174.2	.309	
127	8.99	33.933	2.95	1.78	33	24.4	172.6	150	8.53	33.974	3.05	26.41	162.7	.351	
145	8.61	33.963	3.09	1.99	35	25.6	164.7	200	7.84	34.049	2.36	26.57	147.3	.430	
173	8.19	34.020	2.73	2.01	40	26.3	154.4	250	7.23	34.089	1.86	26.69	136.0	.503	
205	7.78	34.053	2.29	2.19	46	29.4	140.1	300	6.94	34.134	1.42	26.77	128.9	.571	
231	7.39	34.075	2.03	2.48	51	31.3	139.2	400	6.32	34.208	.79	26.91	115.5	.698	
278	7.08	34.111	1.62	2.64	57	33.3	132.4	510	5.84	34.295	.42	27.04	103.1	.814	
326	6.78	34.116	1.20	2.73	62	34.6	124.8								
404	6.30	34.210	.77	2.73	70	36.0	115.0								
485	5.91	34.283	.46	3.08	79	39.4	104.0								
567	5.50	34.342	.35	3.12	85	40.0	95.6								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
90.70								CALCOFI CRUISE 6806							90.70

DAVID STARR JORDAN, JUNE 11 1968, 2216 GMT, 32 05N 120 40W, SOUNDING 2050 FM, WIND 320 16 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	15.04	33.33	-	24.70	325.5	0
10	15.02	33.33	-	24.70	325.1	.033
20	14.93	33.34	-	24.73	322.5	.065
30	14.75	33.34	-	24.77	318.8	.097
50	14.17	33.41	-	24.94	302.0	.159
75	12.20	33.29	-	25.24	273.4	.232
100	10.29	33.43	-	25.70	230.2	.295
125	9.75	33.56	-	25.89	211.9	.351
150	9.45	33.74	-	26.08	193.9	.402
200	8.55	33.99	-	26.42	161.8	.493
250	7.97	34.06	-	26.56	148.3	.572
300	7.36	34.12	-	26.70	135.4	.646
400	6.52	34.20	-	26.88	118.5	.778
500	5.96	34.28	-	27.01	105.7	.896
600	5.50	34.33	-	27.11	96.5	1.004

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
90.80								CALCOFI CRUISE 6806							90.80

DAVID STARR JORDAN, JUNE 12 1968, 0235 GMT, 31 46.5N 121 19W, SOUNDING 2020 FM, WIND 330 18 KNOTS, WEATHER CLOUDY, SEA ROUGH.

0	15.02	33.35	-	24.72	323.6	0
10	15.02	33.35	-	24.72	323.6	.032
20	14.96	33.35	-	24.73	322.4	.065
30	14.49	33.35	-	24.83	312.8	.097
50	14.25	33.37	-	24.90	306.5	.159
75	13.94	33.39	-	24.98	298.9	.235
100	11.79	33.29	-	25.32	266.0	.306
125	10.28	33.60	-	25.83	217.5	.367
150	9.27	33.80	-	26.16	186.7	.418
200	8.60	34.02	-	26.43	160.3	.507
250	7.84	34.10	-	26.61	143.5	.584
300	7.31	34.14	-	26.72	133.3	.656
400	6.65	34.21	-	26.87	119.4	.787
500	5.88	34.26	-	27.00	106.2	.906
600	5.37	34.32	-	27.11	95.8	1.014

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	
90.80								CALCOFI CRUISE 6806							90.80

DAVID STARR JORDAN, JUNE 12 1968, 0310 GMT, 31 46.5N 121 19W, SOUNDING 2020 FM, WIND 330 18 KNOTS, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 08.

0	14.97	33.345	6.00	0.38	2	0.0	322.9	0	14.97	33.345	6.00	24.72	322.9	0
11	14.99	33.342	6.03	0.29	2	0.0	323.6	10	15.00	33.342	6.03	24.72	323.7	.032
29	14.47	33.340	6.11	0.31	2	0.2	313.1	20	14.77	33.339	6.08	24.76	319.2	.065
39	14.23	33.350	6.05	0.45	2	0.3	307.6	30	14.44	33.341	6.10	24.83	312.5	.096
52	14.15	33.360	6.02	0.48	2	0.9	305.2	50	14.17	33.359	6.02	24.91	305.7	.158
66	13.93	33.372	6.04	0.51	2	1.5	300.0	75	13.34	33.344	5.96	25.06	290.6	.233
90	12.07	33.312	5.76	0.58	5	3.3	269.4	100	11.28	33.343	5.35	25.46	253.3	.302
109	10.65	33.408	4.89	1.06	12	10.9	237.8	125	9.89	33.638	3.94	25.93	208.4	.360
127	9.82	33.667	3.83	1.60	22	20.1	205.1	150	9.22	33.801	3.46	26.16	185.9	.410
146	9.29	33.779	3.51	1.80	27	22.5	188.6	200	8.62	33.983	2.98	26.40	163.3	.499
174	8.93	33.910	3.19	1.92	31	25.0	173.4	250	7.89	34.087	2.20	26.59	145.1	.578
208	8.52	34.001	2.90	2.08	37	27.0	160.5	300	7.33	34.121	1.74	26.70	134.9	.650
236	8.09	34.070	2.37	2.31	43	29.3	149.2	400	6.59	34.201	1.90	26.87	119.3	.783
283	7.48	34.109	1.89	2.50	51	32.7	137.9	500	5.83	34.260	.49	27.01	105.6	.901
334	7.07	34.144	1.45	2.67	57	35.1	129.8							
415	6.48	34.214	.79	2.95	67	37.8	117.0							
496	5.86	34.258	.50	3.09	78	40.9	106.1							
579	5.40	34.307	.36	3.05	85	40.5	97.1							

OBSERVED LEVELS OF DEPTH						STANDARD LEVELS OF DEPTH								
L	T	S	OXY	PHO	SIL	NIT	DEPT	P	T	S	OXY	SIGHT	DEPT	DE
90.90								CALCOFI CRUISE 6806						90.90
DAVID STARR JORDAN, JUNE 12 1968, 0723 GMT, 31 25N 122 00W, SOUNDING 2100 FM, WIND 320 10 KNOTS, WEATHER MISSING, SEA MISSING.														
0	16.49	33.50	-	24.50	344.0	0								
10	16.49	33.50	-	24.50	344.0	.034								
20	16.50	33.50	-	24.50	344.2	.069								
30	16.49	33.50	-	24.50	344.0	.103								
40	13.75	33.48	-	25.09	288.6	.167								
50	11.33	33.41	-	25.50	249.1	.234								
100	10.06	33.59	-	25.86	214.7	.293								
125	9.61	33.72	-	26.04	197.9	.345								
150	9.25	33.88	-	26.22	180.5	.393								
200	8.40	34.06	-	26.50	154.4	.478								
250	7.88	34.12	-	26.62	142.5	.554								
300	7.29	34.18	-	26.75	130.0	.625								
400	6.34	34.19	-	26.89	117.0	.754								
500	5.76	34.26	-	27.02	104.8	.870								
600	5.23	34.31	-	27.12	95.0	.977								
93.28								CALCOFI CRUISE 6806						93.28
DAVID STARR JORDAN, JUNE 10 1968, 1246 GMT, 32 54.5N 117 22W, SOUNDING 325 FM, WIND 020 4 KNOTS, WEATHER CLEAR, SEA SLIGHT.														
0	17.94	33.61	-	24.24	368.7	0								
10	14.49	33.46	-	24.92	304.7	.034								
20	11.76	33.54	-	25.52	247.1	.061								
30	10.80	33.69	-	25.81	219.4	.085								
50	10.09	33.77	-	26.00	201.8	.127								
75	9.48	33.86	-	26.17	185.5	.176								
100	9.14	33.94	-	26.29	174.3	.221								
125	8.93	34.03	-	26.39	164.5	.264								
150	9.03	34.17	-	26.48	155.6	.305								
200	8.63	34.18	-	26.56	148.9	.382								
250	8.38	34.26	-	26.66	139.3	.457								
300	8.01	34.28	-	26.73	132.5	.527								
400	7.13	34.29	-	26.86	119.7	.659								
93.30								CALCOFI CRUISE 6806						93.30
DAVID STARR JORDAN, JUNE 10 1968, 1112 GMT, 32 50.5N 117 31W, SOUNDING 450 FM, WIND CALM, WEATHER MISSING, SEA SMOOTH.														
0	18.17	33.63	-	24.20	372.6	0								
10	16.26	33.63	-	24.66	329.5	.035								
20	12.58	33.52	-	25.35	263.4	.065								
30	11.37	33.49	-	25.55	243.9	.090								
50	10.20	33.62	-	25.86	214.7	.136								
75	9.59	33.80	-	26.10	191.7	.187								
100	9.17	33.97	-	26.31	172.6	.233								
125	9.08	34.08	-	26.41	163.0	.276								
150	9.19	34.18	-	26.47	157.3	.317								
200	8.71	34.22	-	26.57	147.1	.394								
250	8.51	34.28	-	26.65	139.7	.468								
300	8.16	34.29	-	26.71	133.9	.539								
400	7.27	34.30	-	26.85	120.8	.672								
500	6.38	34.32	-	26.99	107.8	.793								
600	5.56	34.34	-	27.10	96.9	.903								
93.40								CALCOFI CRUISE 6806						93.40
DAVID STARR JORDAN, JUNE 10 1968, 0602 GMT, 32 30N 118 12W, SOUNDING 950 FM, WIND 320 10 KNOTS, WEATHER CLEAR, SEA MODERATE.														
0	16.56	33.60	-	24.56	338.2	0								
10	14.74	33.64	-	25.00	296.6	.032								
20	13.24	33.63	-	25.30	267.7	.060								
30	12.21	33.60	-	25.48	250.7	.086								
50	10.46	33.68	-	25.86	214.5	.133								
75	9.43	33.84	-	26.16	186.2	.183								
100	9.16	33.91	-	26.26	174.9	.229								
125	8.65	34.03	-	26.43	160.3	.272								
150	8.45	34.07	-	26.50	154.4	.312								
200	8.05	34.11	-	26.59	145.7	.388								
250	7.55	34.15	-	26.69	135.8	.460								
300	7.13	34.18	-	26.78	127.9	.528								
400	6.55	34.28	-	26.93	112.9	.654								
500	5.93	34.30	-	27.03	103.8	.769								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH									
INPUT				COMPUTED			INPUT				COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
93.50							CALCOFI CRUISE 6806							93.50		

DAVID STARR JORDAN, JUNE 10 1968, 0105 GMT, 32 11N 118 53W, SOUNDING 600 FM; WIND 300 14 KNOTS; WEATHER OVERCAST, SEA ROUGH.

0	14.93	33.63	-	24.95	301.3	0
10	14.91	33.63	-	24.96	300.8	.030
20	14.72	33.62	-	24.99	297.7	.060
30	14.29	33.57	-	25.04	292.6	.090
50	11.93	33.48	-	25.44	254.5	.145
75	10.27	33.61	-	25.84	216.6	.204
100	9.42	33.75	-	26.09	192.7	.255
125	8.87	33.89	-	26.29	174.0	.302
150	8.58	34.02	-	26.44	160.0	.344
200	8.25	34.15	-	26.59	145.6	.422
250	7.79	34.19	-	26.69	136.1	.494
300	7.36	34.24	-	26.79	126.5	.562
400	6.46	34.28	-	26.95	111.8	.687
500	5.86	34.32	-	27.05	101.5	.799

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD		
93.60							CALCOFI CRUISE 6806							93.60		

DAVID STARR JORDAN, JUNE 8 1968, 1804 GMT, 31 55N 119 40W, SOUNDING 1510 FM, WIND 340 6 KNOTS; WEATHER OVERCAST, SEA VERY ROUGH.

0	15.20	33.47	-	24.77	318.6	0
10	15.20	33.47	-	24.77	318.6	.032
20	15.19	33.47	-	24.77	318.4	.064
30	14.83	33.40	-	24.80	316.0	.096
50	12.98	33.38	-	25.16	281.1	.155
75	10.83	33.44	-	25.61	238.4	.221
100	10.22	33.65	-	25.88	212.8	.278
125	9.61	33.78	-	26.09	193.4	.329
150	9.13	33.95	-	26.30	173.4	.376
200	8.23	34.05	-	26.51	152.7	.459
250	7.73	34.08	-	26.61	143.4	.535
300	7.31	34.14	-	26.72	133.3	.606
400	6.51	34.26	-	26.92	113.9	.735
500	5.95	34.30	-	27.03	104.1	.850
600	5.48	34.35	-	27.13	94.8	.956

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		
93.60							CALCOFI CRUISE 6806							93.60		

DAVID STARR JORDAN, JUNE 8 1968, 1840 GMT, 31 55N 119 40W, SOUNDING 1510 FM, WIND 340 6 KNOTS; WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 20.

2	15.23	33.463	5.99	0.36	2	0.2	319.7	0	15.23	33.463	5.99	24.76	319.7	0
11	15.23	33.463	6.00	0.33	2	0.1	319.7	10	15.23	33.463	6.00	24.76	319.7	.032
30	15.17	33.458	6.02	0.32	2	0.0	318.8	20	15.21	33.461	6.01	24.76	319.4	.064
38	13.61	33.400	6.06	0.47	3	1.0	291.7	30	15.17	33.458	6.02	24.77	318.8	.096
47	13.03	33.413	5.84	1.10	5	2.9	279.6	50	12.73	33.403	5.72	25.23	274.8	.156
60	11.70	33.373	5.29	0.81	8	6.8	258.3	75	10.72	33.440	4.74	25.63	236.5	.220
74	10.76	33.431	4.78	1.09	12	11.5	237.9	100	10.02	33.651	3.92	25.92	209.5	.276
91	10.25	33.600	4.14	1.44	18	16.3	217.0	125	9.52	33.829	3.48	26.14	188.4	.326
114	9.72	33.727	3.67	-	-	-	199.1	150	9.08	33.964	3.23	26.32	171.6	.372
133	9.38	33.899	3.36	1.80	28	22.2	181.1	200	8.24	34.058	2.65	26.52	152.2	.455
161	8.89	33.984	3.16	1.98	32	24.6	167.3	250	7.78	34.098	2.11	26.62	142.7	.530
188	8.44	34.043	2.82	2.06	37	26.9	156.3	300	7.26	34.131	1.64	26.72	133.3	.601
214	8.03	34.071	2.46	2.29	42	28.6	148.3	400	6.47	34.250	.66	26.92	114.2	.730
253	7.76	34.100	2.08	2.44	47	30.9	142.4	500	5.97	34.304	.40	27.03	104.0	.846
309	7.16	34.138	1.55	2.61	55	33.8	131.4							
378	6.59	34.243	.72	2.97	65	36.9	116.2							
449	6.22	34.272	.53	3.09	71	38.5	109.4							
526	5.84	34.323	.34	3.18	78	41.1	101.0							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DT	Z	T	S	OXY	SIGHT	DT	DEPTH
93.70														93.70
DAVID STARR JORDAN, JUNE 9 1968, 1155 GMT, 31 29N 120 15W, SOUNDING 2200 FM, WIND 320 20 KNOTS, WEATHER MISSING, SEA MISSING.														
0	16.03	33.49	-	24.60	334.7	0								
10	16.02	33.49	-	24.60	334.5	.033								
20	15.01	33.49	-	24.61	334.3	.067								
30	15.69	33.46	-	24.65	329.6	.100								
50	13.35	33.37	-	25.08	288.9	.162								
75	11.26	33.40	-	25.50	248.7	.230								
100	10.20	33.56	-	25.82	219.1	.289								
125	9.58	33.70	-	26.03	198.9	.342								
150	9.09	33.88	-	26.25	174.0	.389								
200	8.50	34.04	-	26.47	157.4	.475								
250	7.92	34.11	-	26.61	143.9	.552								
300	7.35	34.16	-	26.73	132.3	.623								
400	6.50	34.23	-	26.90	116.0	.753								
500	5.89	34.29	-	27.03	104.1	.869								
600	5.38	34.34	-	27.13	94.4	.975								
93.80														93.80
DAVID STARR JORDAN, JUNE 9 1968, 0713 GMT, 31 09N 120 56W, SOUNDING 2000 FM, WIND 340 18 KNOTS, WEATHER MISSING, SEA MISSING.														
0	16.91	33.56	-	24.45	348.9	0								
10	16.91	33.56	-	24.45	348.9	.035								
20	16.92	33.56	-	24.45	349.1	.070								
30	16.92	33.56	-	24.45	349.1	.105								
50	16.82	33.59	-	24.50	346.7	.174								
75	12.50	33.41	-	25.28	270.0	.252								
100	10.93	33.43	-	25.59	240.8	.316								
125	9.72	33.67	-	25.98	203.3	.372								
150	9.25	33.84	-	26.19	183.4	.421								
200	8.43	34.00	-	26.45	159.3	.508								
250	7.79	34.06	-	26.59	145.8	.587								
300	7.19	34.08	-	26.69	136.1	.659								
400	6.30	34.16	-	26.87	118.8	.792								
500	5.81	34.24	-	27.00	106.9	.911								
600	5.26	34.30	-	27.11	96.1	1,019								
93.90														93.90
DAVID STARR JORDAN, JUNE 9 1968, 0300 GMT, 30 49.5N 121 35.5W, SOUNDING 2200 FM, WIND 340 14 KNOTS, WEATHER CLOUDY, SEA VERY ROUGH.														
0	16.31	33.51	-	24.55	339.3	0								
10	16.31	33.52	-	24.56	338.6	.034								
20	16.25	33.52	-	24.57	337.3	.068								
30	14.98	33.42	-	24.78	317.7	.101								
50	13.45	33.41	-	25.09	287.9	.161								
75	11.31	33.41	-	25.50	248.8	.229								
100	10.29	33.56	-	25.80	220.6	.288								
125	9.64	33.73	-	26.04	197.6	.341								
150	9.19	33.85	-	26.21	181.8	.389								
200	8.59	34.02	-	26.44	160.2	.476								
250	7.98	34.08	-	26.58	146.9	.555								
300	7.31	34.11	-	26.70	135.5	.628								
400	6.49	34.21	-	26.89	117.4	.759								
500	5.79	34.27	-	27.02	104.4	.876								
600	5.22	34.34	-	27.15	92.6	.981								
94.30														94.30
DAVID STARR JORDAN, MAY 31 1968, 2340 GMT, 32 42.5N 117 27W, SOUNDING MISSING, WIND MISSING, WEATHER MISSING, SEA MISSING. A)														
0A	-	-	-	-	-	-	-	0	18.86	33.58	-	23.94	392.6	0
10	16.53	33.55	-	24.53	341.2	.037								
20	11.57	33.41	-	25.46	253.3	.066								
30	10.49	33.72	-	25.89	212.1	.090								
50	9.66	33.79	-	26.09	193.5	.131								
75	9.28	33.90	-	26.23	179.4	.177								
100	9.10	34.05	-	26.38	165.6	.221								
125	9.02	34.12	-	26.45	159.2	.252								
150	8.86	34.14	-	26.49	155.3	.302								
200	8.68	34.24	-	26.59	145.2	.379								
250	8.43	34.27	-	26.66	139.3	.452								

A1 SHAKEDOWN STATION.

OBSERVED LEVELS OF DEPTH						STANDARD LEVELS OF DEPTH								
	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGHT	DFT	DD

97.35

CALCOFI CRUISE 6806

97.35

DAVID STARR JORDAN, JUNE 7 1968, 1623 GMT, 32°05.5N 117°27.5W, SOUNDING 705 FM, WIND 270 13 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	16.36	33.58	-	24.59	335.3	0
10	16.36	33.59	-	24.60	334.6	.034
20	15.65	33.52	-	24.71	324.4	.066
30	13.40	33.47	-	25.15	282.5	.097
50	11.49	33.47	-	25.52	247.5	.150
75	10.28	33.62	-	25.85	216.0	.208
100	9.53	33.80	-	26.11	190.7	.260
125	9.07	33.93	-	26.29	174.0	.306
150	8.74	34.00	-	26.40	163.9	.349
200	8.09	34.12	-	26.59	145.5	.428
250	7.75	34.15	-	26.66	138.5	.500
300	7.34	34.19	-	26.75	129.9	.570
400	6.55	34.25	-	26.91	115.2	.698
500	6.06	34.29	-	27.01	106.1	.815
600	5.57	34.33	-	27.10	97.3	.923

97.40

CALCOFI CRUISE 6806

97.40

DAVID STARR JORDAN, JUNE 7 1968, 1950 GMT, 31°55N 117°47.5W, SOUNDING 850 FM, WIND 300 12 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	16.13	33.54	-	24.62	333.2	0
10	16.13	33.54	-	24.62	333.2	.033
20	15.72	33.48	-	24.66	328.8	.066
30	12.58	33.41	-	25.26	271.5	.097
50	10.77	33.54	-	25.70	230.0	.147
75	9.81	33.86	-	26.11	190.7	.200
100	9.83	34.15	-	26.34	169.5	.245
125	9.78	34.19	-	26.38	165.8	.288
150	9.61	34.22	-	26.43	160.9	.329
200	9.26	34.26	-	26.52	152.4	.409
250	9.13	34.31	-	26.58	146.7	.486
300	8.66	34.33	-	26.67	138.2	.560
400	7.32	34.27	-	26.82	123.7	.697
500	6.37	34.32	-	26.99	107.7	.820
600	5.56	34.34	-	27.11	96.5	.929

97.50

CALCOFI CRUISE 6806

97.50

DAVID STARR JORDAN, JUNE 8 1968, 0210 GMT, 31°35.5N 118°29W, SOUNDING 1150 FM, WIND 290 17 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	14.96	33.58	-	24.91	305.5	0
10	14.96	33.58	-	24.91	305.5	.031
20	14.96	33.58	-	24.91	305.5	.061
30	14.92	33.58	-	24.92	304.7	.092
50	12.53	33.38	-	25.25	272.8	.150
75	10.74	33.48	-	25.66	233.9	.213
100	10.07	33.66	-	25.92	209.6	.269
125	9.32	33.86	-	26.20	183.0	.319
150	8.89	33.95	-	26.33	169.8	.364
200	8.26	34.07	-	26.53	151.7	.446
250	7.65	34.14	-	26.67	137.9	.520
300	7.49	34.20	-	26.74	131.2	.589
400	6.74	34.25	-	26.88	117.6	.719
500	6.06	34.29	-	27.01	106.1	.837

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGHT	DFT	DD
97.60								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 8 1968, 0721 GMT, 31 15N 119 09W, SOUNDING 1825 FM, WIND 360 12 KNOTS, WEATHER MISSING, SEA ROUGH.								0	16.66	33.57	-	24.52	342.6	0
								10	16.65	33.57	-	24.52	342.4	.034
								20	16.66	33.57	-	24.52	342.6	.069
								30	16.66	33.57	-	24.52	342.6	.103
								50	12.33	33.41	-	25.31	266.9	.164
								75	10.80	33.46	-	25.63	236.4	.227
								100	10.13	33.63	-	25.88	212.8	.284
								125	9.39	33.83	-	26.16	186.3	.334
								150	9.13	33.90	-	26.26	177.1	.380
								200	8.34	34.05	-	26.50	154.3	.465
								250	8.03	34.09	-	26.58	146.9	.542
								300	7.44	34.14	-	26.70	135.0	.615
								400	6.67	34.22	-	26.87	118.9	.747
								500	5.92	34.27	-	27.01	105.9	.866
								600	5.45	34.33	-	27.11	96.0	.974

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGHT	DFT	DD
97.60								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 8 1968, 0801 GMT, 31 15N 119 09W, SOUNDING 1780 FM, WIND 360 12 KNOTS, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 10.								97.60						
1	16.63	33.563	5.78	0.26	2	0.2	342.5	0	16.63	33.563	5.78	24.52	342.5	0
11	16.62	33.567	5.76	0.24	2	0.0	342.0	10	16.62	33.567	5.76	24.52	342.0	.034
30	16.64	33.560	5.83	0.30	2	0.1	342.9	20	16.64	33.564	5.80	24.52	342.5	.069
39	16.60	33.559	5.76	0.25	2	0.1	342.1	30	16.64	33.560	5.83	24.51	342.9	.103
49	14.27	33.489	6.02	0.30	5	0.2	299.2	50	14.02	33.481	5.97	25.03	293.9	.167
62	11.57	33.416	5.08	0.89	10	7.4	252.9	75	10.87	33.485	4.47	25.64	235.8	.233
77	10.78	33.502	4.40	1.08	15	10.4	233.0	100	10.00	33.678	3.73	25.94	207.1	.289
95	10.13	33.625	3.84	0.98	20	15.1	213.2	125	9.48	33.909	3.36	26.21	181.8	.338
119	9.59	33.871A	3.43	1.33	26	19.1	186.4	150	9.10	33.967	3.12	26.31	171.7	.383
138	9.26	33.965A	3.22	1.91	29	23.7	174.3	200	8.42	34.047	2.59	26.48	155.6	.467
167	8.88	33.969	2.98	1.88	33	23.8	168.3	250	7.99	34.118	1.98	26.60	144.3	.544
195	8.49	34.039	2.65	1.85	39	26.4	157.3	300	7.52	34.154	1.50	26.70	135.0	.616
223	8.12	34.078	2.32	2.31	43	29.1	149.1	400	6.70	34.231	.82	26.88	118.5	.748
262	7.95	34.133	1.84	2.46	48	31.1	142.6	500	5.88	34.295	.41	27.03	103.6	.865
321	7.26	34.162	1.35	2.69	56	33.3	130.9							
394	6.76	34.226	.86	2.55	63	33.5	119.6							
466	6.13	34.278	.50	3.14	75	39.9	107.9							
544	5.60	34.310	.36	3.03	83	40.2	99.2							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGHT	DFT	DD
97.70								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 8 1968, 1250 GMT, 30 56N 119 48.5W, SOUNDING 1870 FM, WIND 300 16 KNOTS, WEATHER OVERCAST, SEA ROUGH.								97.70						
0	16.33	33.46	-					0	16.33	33.46	-	24.51	343.4	0
10	16.33	33.46	-					10	16.33	33.46	-	24.51	343.4	.034
20	16.34	33.46	-					20	16.34	33.46	-	24.51	343.6	.069
30	16.34	33.46	-					30	16.34	33.46	-	24.51	343.6	.103
50	14.72	33.37	-					50	14.72	33.37	-	24.80	316.0	.169
75	12.49	33.32	-					75	12.49	33.32	-	25.21	276.4	.244
100	10.91	33.36	-					100	10.91	33.36	-	25.54	245.7	.310
125	10.04	33.53	-					125	10.04	33.53	-	25.82	218.8	.368
150	9.21	33.75	-					150	9.21	33.75	-	26.13	189.5	.420
200	8.49	33.98	-					200	8.49	33.98	-	26.42	161.7	.509
250	7.91	34.04	-					250	7.91	34.04	-	26.55	148.9	.589
300	7.46	34.08	-					300	7.46	34.08	-	26.65	139.7	.663
400	6.38	34.15	-					400	6.38	34.15	-	26.85	120.5	.799
500	5.91	34.27	-					500	5.91	34.27	-	27.01	105.8	.818

A) THE SALINITY SAMPLES AT 119 AND 138 METERS APPEAR TO HAVE BEEN REVERSED. THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHU	STL	NIT	DAT	Z	T	S	OXY	SIG*T	DAT	DC
97.80								CALCOFI CRUISE 6806						97.80

DAVID STARR JORDAN, JUNE 8 1968, 1836 GMT, 30 35.5N 120 29W, SOUNDING 2090 FM, WIND 300 14 KNOTS, WEATHER CLOUDY, SEA ROUGH.

0	16.96	33.49	-	24.39	355.1	0
10	16.94	33.49	-	24.39	354.7	.036
20	16.93	33.49	-	24.39	354.5	.071
30	16.93	33.49	-	24.39	354.5	.107
50	15.13	33.42	-	24.75	320.8	.174
75	13.72	33.32	-	24.97	299.7	.252
100	12.13	33.28	-	25.25	272.8	.324
125	10.34	33.42	-	25.68	231.8	.388
150	9.47	33.63	-	25.99	202.4	.443
200	8.72	33.94	-	26.35	168.0	.537
250	7.97	34.03	-	26.54	150.5	.619
300	7.27	34.06	-	26.66	138.7	.693
400	6.37	34.15	-	26.86	120.4	.828
500	5.78	34.26	-	27.02	105.0	.947
600	5.31	34.33	-	27.13	94.4	1.053

100.30 CALCOFI CRUISE 6806 100.30

DAVID STARR JORDAN, JUNE 7 1968, 0632 GMT, 31 40.5N 116 46.5W, SOUNDING 215 FM, WIND 310 8 KNOTS, WEATHER MISSING, SEA MISSING.

0	16.79	33.67	-	24.56	338.2	0
10	12.84	33.64	-	25.39	259.4	.030
20	10.68	33.66	-	25.81	219.6	.054
30	10.44	33.71	-	25.89	212.0	.076
50	9.89	33.84	-	26.09	193.4	.116
75	9.48	33.98	-	26.26	176.6	.163
100	9.40	34.02	-	26.31	172.4	.207
125	9.34	34.08	-	26.36	167.0	.250
150	9.13	34.19	-	26.48	155.6	.291
200	8.90	34.30	-	26.61	144.0	.367
250	8.57	34.31	-	26.67	138.3	.440
300	8.32	34.34	-	26.73	132.5	.510

INPUT						OUTPUT AT STANDARD LEVELS OF DEPTH									
Z	T	S	OXY	PHO	SIL	NIT	DOT	Z	T	S	OXY	SIG*T	DOT	DD	
100-30															100-30
CALCOEL CRUISE 6806															

DAVID STARR JORDAN, JUNE 7 1968, 0727 GMT, 31 40.5N 116 46.5W, SOUNDING 215 FM, WIND 310 8 KNOTS, WEATHER MISSING, SEA MISSING, WIRE ANGLE 10.

3	10.71	33.671	6.32	0.27	7	0.2	336.4	0	16.71	33.671	6.32	24.58	336.4	0
11	16.08	33.639	6.24	0.30	8	0.1	324.9	10	16.21	33.641	6.28	24.68	327.4	.033
32	10.40	33.700	3.61	1.38	21	14.8	212.0	20	13.61	33.652	5.13	25.25	273.1	.063
45	10.12	33.737	3.56	1.66	23	19.2	204.7	30	10.93	33.690	3.87	25.79	221.6	.088
59	9.76	33.868	3.25	1.79	27	21.6	189.3	50	9.99	33.780	3.46	26.02	199.4	.130
75	9.49	33.975	2.97	1.91	30	22.1	177.1	75	9.49	33.975	2.97	26.26	177.1	.178
89	9.43	33.990	2.92	1.52	31	21.5	175.1	100	9.37	33.997	2.89	26.29	173.6	.222
107	9.33	34.007	2.87	1.95	32	24.3	172.3	125	9.31	34.090	2.38	26.38	165.8	.265
131	9.29	34.124	2.18	2.24	37	27.0	163.0	150	9.05	34.205	1.80	26.51	153.3	.306
151	9.04	34.209	1.78	2.43	41	28.6	152.9	200	8.78	34.291	1.21	26.62	142.9	.381
193	8.83	34.285	1.27	2.65	46	30.7	144.1	250	8.42	34.308	.98	26.69	136.3	.453
226	8.59	34.304	1.06	2.54	49	30.8	139.1	300	8.28	34.333	.85	26.73	132.4	.523
258	8.38	34.310	.96	2.78	51	33.1	135.6							
295	8.29	34.329	.86	2.82	53	32.8	132.8							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
100.35								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 7 1968, 0340 GMT, 31 30.5N 117 07W, SOUNDING 645 FM, WIND 310 12 KNOTS, WEATHER MISSING, SEA ROUGH.

0	17.58	33.57	-	24.30	363.3	0
10	17.58	33.58	-	24.31	362.6	.036
20	17.02	33.56	-	24.43	351.4	.072
30	12.72	33.32	-	25.17	280.7	.104
50	10.29	33.63	-	25.85	215.4	.154
75	9.78	33.87	-	26.13	189.5	.204
100	9.35	33.99	-	26.29	173.8	.250
125	9.16	34.07	-	26.39	165.0	.293
150	8.76	34.12	-	26.49	155.3	.334
200	8.29	34.20	-	26.62	142.4	.410
250	8.63	34.34	-	26.68	137.0	.482
300	8.33	34.33	-	26.72	133.3	.552
400	7.04	34.29	-	26.88	118.5	.684
500	6.47	34.32	-	26.98	108.9	.804
600	5.65	34.34	-	27.10	97.5	.915

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
100.40								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 7 1968, 0006 GMT, 31 22.5N 117 26.5W, SOUNDING 940 FM, WIND 320 12 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	17.25	33.58	-	24.39	355.1	0
10	17.22	33.57	-	24.39	355.1	.036
20	14.77	33.35	-	24.17	318.5	.069
30	14.03	33.42	-	24.98	298.5	.100
50	11.75	33.40	-	25.41	257.2	.156
75	10.29	33.73	-	25.93	208.0	.214
100	9.69	33.87	-	26.14	188.0	.264
125	9.30	33.98	-	26.29	173.8	.310
150	9.08	34.05	-	26.38	165.3	.353
200	8.70	34.18	-	26.54	149.9	.434
250	8.25	34.22	-	26.64	140.4	.508
300	7.50	34.21	-	26.75	130.6	.578
400	6.63	34.26	-	26.91	115.4	.707
500	6.19	34.34	-	27.03	104.0	.823
600	5.48	34.32	-	27.10	97.0	.930

OBSERVED LEVELS OF DEPTH							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
100.40								CALCOFI CRUISE 6806						

DAVID STARR JORDAN, JUNE 7 1968, 0042 GMT, 31 22.5N 117 26.5W, SOUNDING 940 FM, WIND 320 12 KNOTS, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 05.

2	17.20	33.573	5.79	0.34	4	0.1	354.5	0	17.20	33.573	5.79	24.39	354.5	0
14	17.11	33.568	5.78	0.31	4	0.0	352.8	10	17.14	33.570	5.78	24.40	353.4	.035
31	14.4%	33.456	5.60	0.49	5	1.6	304.0	20	16.30	33.530	5.75	24.57	337.6	.070
45	12.74	33.430	5.17	0.79	8	5.6	273.0	30	14.63	33.463	5.62	24.89	307.3	.102
54	11.90	33.451	4.77	0.97	11	9.4	256.1	50	12.25	33.437	4.96	25135	263.4	.160
69	10.86	33.574	4.02	1.42	17	15.9	229.0	75	10.51	33.657	3.74	25184	217.1	.220
83	10.14	33.760	3.45	1.71	23	21.0	203.4	100	9.81	33.803	3.35	26.07	194.9	.272
103	9.78	33.812	3.38	1.79	26	22.6	193.8	125	9.36	33.940	3.13	26.25	177.8	.319
127	9.33	33.952	3.11	1.94	30	25.7	176.4	150	9.08	34.037	2.81	26.37	166.3	.363
147	9.11	34.027	2.85	2.06	33	27.2	167.4	200	8.71	34.172	1.94	26.54	150.7	.444
175	8.90	34.111	2.40	2.24	38	29.4	158.0	250	8.15	34.196	1.57	26.64	140.8	.519
205	8.67	34.181	1.86	2.45	43	31.0	149.4	300	7.33	34.188	1.33	26.75	129.9	.589
234	8.37	34.198	1.63	2.54	46	32.4	143.7	400	6.46	34.235	.74	26.91	115.1	.716
273	7.80	34.188	1.49	2.65	52	33.1	136.4	500	6.13	34.330	.40	27.03	104.0	.832
330	6.86	34.191	1.13	2.84	62	37.4	123.5							
402	6.45	34.237	.73	3.00	68	40.6	114.9							
476	6.28	34.329	.41	3.14	74	42.5	105.9							
553	5.64	34.333	.38	3.20	82	43.3	97.9							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIG*T	DAT	DD	
100.50								CALCOFI CRUISE 6806							100.50

DAVID STARR JORDAN, JUNE 6 1968, 1744 GMT, 31°00'.5N 118°08W, SOUNDING 900 FM, WIND 310 4 KNOTS, WEATHER CLOUDY,
SEA ROUGH.

0	17.41	33.63	-	24.39	355.1	0
10	17.39	33.63	-	24.39	354.6	.036
20	15.25	33.46	-	24.75	320.3	.069
30	12.86	33.46	-	25.25	273.0	.099
50	10.80	33.56	-	25.71	229.0	.149
75	10.01	33.80	-	26.03	198.3	.203
100	9.66	33.95	-	26.21	181.6	.251
125	9.51	34.05	-	26.31	171.9	.296
150	9.19	34.08	-	26.39	164.7	.339
200	8.62	34.18	-	26.56	148.7	.419
250	7.85	34.17	-	26.67	136.4	.492
300	7.64	34.25	-	26.76	129.5	.562
400	6.95	34.30	-	26.90	116.6	.690
500	6.17	34.31	-	27.01	106.0	.808
600	5.40	34.34	-	27.13	94.6	.915

100.60 CALCOFI CRUISE 6806 100.60

DAVID STARR JORDAN, JUNE 6 1968, 1058 GMT, 30°41'N 118°47'W, SOUNDING 1480 FM, WIND 360 6 KNOTS, WEATHER MISSING,
SEA MODERATE.

0	16.98	33.47	-	24.37	357.0	0
10	16.98	33.48	-	24.37	356.3	.036
20	16.99	33.48	-	24.37	356.5	.071
30	16.29	33.46	-	24.52	342.5	.106
50	14.40	33.37	-	24.87	309.5	.172
75	12.57	33.34	-	25.21	276.4	.245
100	10.82	33.50	-	25.66	233.8	.310
125	10.27	33.75	-	25.95	206.2	.365
150	10.18	33.88	-	26.07	194.8	.416
200	9.43	34.09	-	26.36	167.7	.509
250	8.91	34.15	-	26.49	155.3	.591
300	8.52	34.22	-	26.60	144.3	.669
400	7.39	34.23	-	26.78	127.6	.811
500	6.50	34.27	-	26.93	113.0	.938

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH								
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIG*T	DAT	DD	
100.60								CALCOFI CRUISE 6806							100.60

DAVID STARR JORDAN, JUNE 6 1968, 1131 GMT, 30°41'N 118°47'W, SOUNDING 1480 FM, WIND 360 6 KNOTS, WEATHER MISSING,
SEA MODERATE, WIRE ANGLE 01°.

1	16.94	33.479	5.84	0.25	2	0.1	355.5	0	16.94	33.479	5.84	24.38	355.5	0
11	16.95	33.476	5.86	0.25	2	0.1	355.9	10	16.96	33.477	5.86	24.38	356.1	.036
30	16.18	33.449	6.00	0.27	2	0.0	340.9	20	16.71	33.467	5.91	24.43	351.2	.071
40	15.40	33.419	6.11	0.32	2	0.0	326.5	30	16.18	33.449	6.00	24.54	340.9	.106
50	14.23	33.359	6.21	0.28	2	0.2	306.9	50	14.23	33.359	6.21	24.89	306.9	.171
64	13.01	33.372	6.06	0.36	4	0.5	282.3	75	12.20	33.337	5.83	25.28	269.9	.243
79	11.93	33.331	5.70	0.37	6	2.7	265.5	100	10.70	33.540	4.38	25.71	228.9	.306
98	10.75	33.516	4.51	1.08	15	13.1	231.4	125	10.47	33.793	3.10	25.95	206.3	.361
123	10.48	33.780	3.16	1.69	26	20.3	207.5	150	10.26	33.902	2.77	26.07	194.9	.412
142	10.34	33.875	2.77	1.62	28	22.5	198.1	200	9.44	34.081	2.41	26.35	168.5	.505
171	10.00	33.966	2.83	2.02	30	24.7	185.9	250	8.93	34.152	2.08	26.49	155.4	.588
200	9.44	34.081	2.41	1.78	34	25.2	168.5	300	8.45	34.197	1.70	26.60	145.0	.665
230	9.12	34.129	2.15	2.22	38	28.9	160.0	400	7.39	34.245	.97	26.79	126.5	.807
269	8.75	34.170	2.02	2.32	42	29.7	151.4	500	6.40	34.288	.48	26.96	110.5	.932
328	8.17	34.217	1.38	2.49	49	33.1	139.4							
401	7.38	34.245	.97	2.73	59	37.2	126.4							
473	6.63	34.275	.57	2.97	69	39.8	114.3							
551	6.05	34.314	.40	3.12	77	43.3	104.2							

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGT	DFT	DD	
100.70								CALCOFI CRUISE 6808							

DAVID STARR JORDAN, JUNE 6 1968, 0543 GMT, 30 22N 119 24.5W, SOUNDING 2100 FM, WIND 340 12 KNOTS, WEATHER CLOUDY, SEA ROUGH.

0	16.82	33.56	-	24.47	346.9	0
10	16.82	33.57	-	24.48	346.2	.035
20	16.62	33.48	-	24.46	348.3	.069
30	16.54	33.46	-	24.46	348.0	.104
50	15.18	33.31	-	24.65	329.8	.172
75	12.89	33.24	-	25.07	289.7	.250
100	11.54	33.36	-	25.42	256.5	.319
125	10.59	33.46	-	25.67	232.9	.381
150	9.68	33.60	-	25.93	207.9	.437
200	8.65	33.94	-	26.33	170.0	.533
250	8.17	34.07	-	26.54	150.4	.615
300	7.74	34.14	-	26.66	139.1	.689
400	6.60	34.20	-	26.86	119.5	.824
500	6.15	34.28	-	26.99	108.0	.944
600	5.60	34.32	-	27.09	98.4	1.055

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGT	DFT	DD	
100.80								CALCOFI CRUISE 6808							

DAVID STARR JORDAN, JUNE 6 1968, 0017 GMT, 30 00.5N 120 07.5W, SOUNDING 2010 FM, WIND 340 10 KNOTS, WEATHER OVERCAST, SEA MODERATE.

0	17.69	33.68	-	24.36	357.8	0
10	17.70	33.68	-	24.36	358.1	.036
20	17.62	33.67	-	24.37	357.0	.072
30	17.25	33.61	-	24.41	352.9	.107
50	17.19	33.58	-	24.40	353.7	.178
75	16.23	33.52	-	24.58	336.8	.265
100	13.72	33.44	-	25.06	290.9	.344
125	12.02	33.38	-	25.35	263.5	.414
150	10.40	33.54	-	25.77	223.9	.476
200	9.27	33.93	-	26.26	177.1	.578
250	8.47	34.03	-	26.46	157.7	.663
300	7.75	34.08	-	26.61	143.7	.741
400	6.55	34.14	-	26.82	123.4	.880
500	6.00	34.27	-	27.00	106.9	1.001
600	5.45	34.32	-	27.11	96.7	1.110

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	DFT	Z	T	S	OXY	SIGT	DFT	DD	
100.80								CALCOFI CRUISE 6808							

DAVID STARR JORDAN, JUNE 6 1968, 0059 GMT, 30 00.5N 120 07.5W, SOUNDING 2010 FM, WIND 340 10 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 08.

0	17.66	33.665	5.48	0.31	2	0.2	358.2	0	17.66	33.665	5.48	24.35	358.2	0
11	17.66	33.666	5.66	0.30	2	0.0	357.7	10	17.65	33.667	5.65	24.36	357.8	.036
30	17.24	33.598	5.67	0.30	2	0.2	353.5	20	17.47	33.637	5.66	24.38	355.9	.072
59	16.99	33.566	5.74	0.31	2	0.1	350.3	30	17.24	33.598	5.67	24.40	353.5	.107
67	16.75	33.594	5.80	0.31	2	0.0	342.9	50	17.10	33.560	5.70	24.41	353.1	.178
83	15.34	33.463	5.98	0.33	2	0.0	322.0	75	16.14	33.539	5.90	24.61	333.6	.264
97	13.85	33.419	5.93	0.37	3	0.1	295.0	100	13.67	33.431	5.95	25.06	290.5	.343
111	13.11	33.481	5.96	0.34	3	0.1	276.2	125	12.15	33.440	5.53	25.37	261.3	.413
135	11.45	33.415	5.10	0.93	10	8.3	250.8	150	10.63	33.510	4.56	25.70	229.8	.475
155	10.40	33.553	4.4	1.33	17	15.2	222.9	200	9.38	33.873	3.78	26.20	182.9	.580
184	9.70	33.762	3.94	1.62	24	20.0	196.2	250	8.42	34.020	3.53	26.46	157.7	.667
213	9.13	33.947	3.69	1.76	30	22.9	173.7	300	7.75	34.063	2.71	26.60	144.9	.745
242	8.54	34.009	3.62	1.87	35	24.5	160.2	400	6.58	34.136	1.32	26.82	124.0	.885
291	7.88	34.057	2.87	2.21	45	29.7	147.2	500	6.02	34.256	.61	26.98	108.2	1.007
344	7.13	34.092	1.94	2.55	56	34.8	134.4	600	5.44	34.330	.36	27.11	95.9	1.116
427	6.38	34.162	1.10	2.91	69	39.9	119.6							
509	5.97	34.265	.57	3.13	78	41.9	106.9							
592	5.49	34.326	.38	3.22	86	43.5	96.7							

OBSERVED LEVELS OF DEPTH						STANDARD LEVELS OF DEPTH								
INPUT			COMPUTED			INPUT			COMPUTED					
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
CALCOFI CRUISE 6806												103.30		
DAVID STARR JORDAN, JUNE 4 1968, 1905 GMT, 31 06N 116 24.5W, SOUNDING 35 FM, WIND CALM, WEATHER OVERCAST, SEA MODERATE.														
0	15.86	33.70	-	24.80	315.7	0								
10	10.76	33.73	-	25.85	215.8	.027								
20	10.33	33.74	-	25.93	207.9	.048								
30	10.21	33.76	-	25.97	204.5	.068								
50	10.00	33.87	-	26.09	193.0	.108								
CALCOFI CRUISE 6806												103.35		
DAVID STARR JORDAN, JUNE 4 1968, 2130 GMT, 30 56N 116 44.5W, SOUNDING 920 FM, WIND 240 2 KNOTS, WEATHER OVERCAST, SEA MODERATE.														
0	18.42	33.60	-	24.12	380.7	0								
10	15.90	33.44	-	24.59	335.6	.036								
20	15.28	33.48	-	24.76	319.5	.069								
30	15.12	33.48	-	24.80	316.2	.100								
50	12.37	33.44	-	25.33	265.4	.159								
75	10.38	33.58	-	25.80	220.6	.220								
100	9.81	33.82	-	26.08	193.6	.272								
125	9.32	33.96	-	26.27	175.6	.319								
150	9.13	34.03	-	26.36	167.5	.362								
200	8.77	34.16	-	26.52	152.4	.444								
250	8.03	34.16	-	26.63	141.7	.520								
300	7.79	34.29	-	26.77	128.6	.590								
400	7.03	34.32	-	26.90	116.1	.718								
500	6.25	34.35	-	27.03	104.0	.834								
CALCOFI CRUISE 6806												103.40		
DAVID STARR JORDAN, JUNE 5 1968, 0050 GMT, 30 45.5N 117 05.5W, SOUNDING 940 FM, WIND 310 14 KNOTS, WEATHER OVERCAST, SEA MODERATE.														
0	18.00	33.61	-	24.23	370.1	0								
10	17.03	33.46	-	24.35	358.9	.036								
20	15.41	33.44	-	24.70	325.1	.071								
30	13.54	33.50	-	25.14	283.0	.101								
50	10.53	33.66	-	25.84	217.1	.151								
75	10.05	33.82	-	26.04	197.5	.204								
100	9.63	33.93	-	26.20	182.7	.252								
125	9.24	34.00	-	26.32	171.4	.296								
150	8.95	34.09	-	26.43	160.3	.338								
200	8.47	34.19	-	26.59	145.8	.417								
250	7.68	34.20	-	26.71	133.8	.488								
300	6.82	34.16	-	26.80	125.3	.555								
400	6.70	34.30	-	26.93	113.3	.680								
500	6.06	34.32	-	27.03	103.9	.795								
600	5.35	34.36	-	27.15	92.6	.900								
CALCOFI CRUISE 6806												103.50		
DAVID STARR JORDAN, JUNE 5 1968, 0615 GMT, 30 26.5N 117 44.5W, SOUNDING 1300 FM, WIND 320 14 KNOTS, WEATHER CLEAR, SEA ROUGH.														
0	17.13	33.54	-	24.38	355.3	0								
10	17.14	33.54	-	24.38	355.5	.036								
20	16.91	33.55	-	24.44	349.6	.071								
30	15.72	33.52	-	24.69	325.9	.105								
50	11.41	33.48	-	25.54	245.4	.162								
75	10.31	33.73	-	25.93	208.4	.219								
100	9.72	33.91	-	26.17	185.6	.269								
125	9.49	33.98	-	26.26	176.8	.315								
150	9.14	34.05	-	26.37	166.2	.358								
200	8.68	34.13	-	26.51	153.3	.440								
250	8.26	34.19	-	26.62	142.7	.516								
300	7.76	34.25	-	26.74	131.2	.587								
400	6.80	34.30	-	26.92	114.6	.715								
500	5.80	34.30	-	27.05	102.3	.830								
600	5.40	34.35	-	27.13	93.9	.935								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
103.60								CALCOFI CRUISE 6806							103.60

DAVID STARR JORDAN, JUNE 5 1968, 1128 GMT, 30 07N 118 25W, SOUNDING 1830 FM, WIND 300 6 KNOTS, WEATHER MISSING,
SEA MISSING.

0	16.99	33.52	-	24.40	353.6	0
10	16.97	33.52	-	24.41	353.2	.035
20	16.95	33.51	-	24.40	353.4	.071
30	16.47	33.50	-	24.51	343.5	.106
50	15.40	33.43	-	24.70	325.7	.173
75	13.12	33.24	-	25.03	294.1	.251
100	11.85	33.15	-	25.36	262.7	.321
125	10.43	33.01	-	25.81	219.2	.382
150	9.59	33.00	-	26.10	191.7	.434
200	8.99	34.08	-	26.42	161.7	.524
250	8.29	34.12	-	26.56	148.4	.603
300	8.18	34.24	-	26.67	137.9	.677
400	6.97	34.24	-	26.85	121.3	.813
500	6.23	34.29	-	26.98	108.2	.934

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	
103.60								CALCOFI CRUISE 6806							103.60

DAVID STARR JORDAN, JUNE 5 1968, 1158 GMT, 30 07N 118 25W, SOUNDING 1830 FM, WIND 300 6 KNOTS, WEATHER MISSING,
SEA MISSING, WIRE ANGLE 12.

0	16.92	33.516	5.75	0.26	2	0.1	352.3	0	16.92	33.516	5.75	24.42	352.3	0
11	16.92	33.514	5.76	0.27	2	0.2	352.5	10	16.92	33.514	5.76	24.41	352.5	.025
30	16.76	33.506	5.82	0.31	2	0.0	349.5	20	16.86	33.511	5.78	24.43	351.4	.071
39	16.44	33.491	5.86	0.22	2	0.5	343.5	30	16.76	33.506	5.82	24.45	349.5	.106
49	15.43	33.404	5.99	0.24	3	0.1	328.2	50	15.35	33.400	6.00	24.68	326.8	.173
62	14.48	33.369	6.13	0.33	3	0.0	311.2	75	13.64	33.336	6.10	25.00	297.1	.252
76	13.58	33.334	6.09	0.34	4	0.1	296.0	100	11.77	33.385	5.24	25.40	258.6	.322
94	12.18	33.342	5.58	0.43	6	2.2	269.2	125	10.49	33.601	4.00	25.80	220.8	.382
118	10.75	33.549	4.22	0.92	18	11.8	229.0	150	9.80	33.801	3.43	26.07	194.9	.435
137	10.13	33.689	3.72	1.61	24	18.5	208.5	200	9.09	34.057	2.71	26.39	165.0	.527
165	9.50	33.919	3.16	1.70	31	21.1	181.4	250	8.40	34.093	2.36	26.52	151.9	.608
194	9.15	34.041	2.79	2.19	36	24.6	167.0	300	8.12	34.199	1.53	26.65	140.1	.683
221	8.88	34.092	2.48	2.21	40	26.9	159.1	400	7.09	34.269	.72	26.85	120.7	.820
260	8.24	34.094	2.31	2.34	50	29.2	149.6	500	6.19	34.290	.44	26.99	107.7	.940
316	8.05	34.245	1.20	2.63	54	30.0	135.6							
387	7.25	34.272	.76	2.70	64	31.0	122.6							
460	6.48	34.272	.55	3.06	74	38.4	112.6							
536	6.00	34.316	.35	2.80U	81	36.5	103.5							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH								
INPUT				COMPUTED			INPUT				COMPUTED				
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD	
107.32								CALCOFI CRUISE 6806							107.32

DAVID STARR JORDAN, JUNE 4 1968, 1305 GMT, 30 26N 116 11W, SOUNDING 170 FM, WIND CALM, WEATHER OVERCAST, SEA MODERATE.

0	16.85	33.62	-	24.51	343.2	0
10	14.78	33.58	-	24.95	301.8	.032
20	12.10	33.55	-	25.47	252.4	.060
30	11.38	33.70	-	25.72	228.6	.084
50	10.35	33.76	-	25.95	206.8	.128
75	9.78	33.89	-	26.14	188.0	.178
100	9.45	34.04	-	26.31	171.7	.223
125	9.23	34.10	-	26.40	163.8	.265
150	9.18	34.17	-	26.46	157.9	.306
200	9.03	34.32	-	26.60	144.5	.384
250	8.90	34.34	-	26.64	141.0	.457

O B S E R V E D L E V E L S O F D E P T H						S T A N D A R D L E V E L S O F D E P T H								
Z	T	S	DXY	PHQ	SIL	NIT	DAT	Z	T	S	DXY	SIGAT	DAT	DD
107.35						CALCOFI CRUISE 6806						107.35		
DAVID STARR JORDAN, JUNE 4 1968, 1111 GMT, 30 21.5N 116 22W, SOUNDING 950 FM, WIND CALM, WEATHER MISSING, SEA MISSING.														
0	17.91	33.58	-	24.23	370.2	0								
10	17.34	33.58	-	24.37	357.1	.036								
20	16.52	33.53	-	24.52	342.4	.071								
30	15.16	33.50	-	24.80	315.5	.104								
50	12.21	33.30	-	25.25	272.8	.163								
75	10.49	33.55	-	25.76	224.6	.226								
100	10.10	33.81	-	26.03	199.0	.279								
125	9.33	33.94	-	26.26	177.2	.327								
150	8.98	34.04	-	26.39	164.5	.370								
200	8.64	34.14	-	26.52	152.0	.451								
250	8.10	34.19	-	26.64	140.4	.526								
300	7.68	34.23	-	26.74	131.6	.597								
400	6.97	34.31	-	26.90	116.1	.726								
500	6.32	34.35	-	27.02	104.8	.843								
107.40						CALCOFI CRUISE 6806						107.40		
DAVID STARR JORDAN, JUNE 4 1968, 0843 GMT, 30 13.5N 116 39.5W, SOUNDING 1010 FM, WIND 320 6 KNOTS, WEATHER MISSING, SEA MISSING.														
0	17.23	33.55	-	24.37	356.8	0								
10	16.96	33.50	-	24.39	354.4	.036								
20	16.14	33.52	-	24.60	334.9	.070								
30	15.82	33.51	-	24.66	328.7	.103								
50	13.60	33.45	-	25.09	287.8	.165								
75	11.56	33.45	-	25.49	250.2	.233								
100	10.03	33.66	-	25.92	209.0	.291								
125	9.92	33.88	-	26.11	191.0	.341								
150	9.48	34.00	-	26.28	175.1	.388								
200	8.81	34.13	-	26.49	155.3	.472								
250	8.03	34.17	-	26.64	140.9	.548								
300	7.69	34.25	-	26.75	130.2	.618								
400	6.76	34.26	-	26.89	117.1	.747								
500	6.18	34.30	-	27.00	106.8	.866								
600	5.54	34.36	-	27.13	94.7	.974								
107.50						CALCOFI CRUISE 6806						107.50		
DAVID STARR JORDAN, JUNE 4 1968, 0340 GMT, 29 52N 117 21W, SOUNDING 1380 FM, WIND 300 6 KNOTS, WEATHER MISSING, SEA MISSING.														
0	16.72	33.50	-	24.45	349.0	0								
10	16.28	33.49	-	24.54	340.1	.034								
20	15.96	33.48	-	24.61	333.9	.068								
30	15.62	33.46	-	24.67	328.1	.101								
50	15.01	33.46	-	24.80	315.4	.166								
75	13.56	33.37	-	25.04	292.9	.242								
100	11.46	33.41	-	25.48	251.4	.311								
125	10.16	33.62	-	25.87	214.1	.370								
150	9.74	33.89	-	26.15	187.3	.421								
200	8.61	34.02	-	26.43	160.5	.509								
250	8.51	34.17	-	26.57	147.9	.588								
300	7.46	34.12	-	26.68	136.8	.662								
400	6.81	34.24	-	26.87	119.2	.795								
500	6.23	34.29	-	26.98	108.2	.915								
600	5.58	34.34	-	27.11	96.7	1.025								

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
107.60							CALCOFI CRUISE 6806							107.60

DAVID STARR JORDAN, JUNE 3 1968, 2108 GMT, 29 31N 118 01W, SOUNDING 1935 FM, WIND 300 4 KNOTS, WEATHER OVERCAST, SEA ROUGH.

0	18.38	33.67	-	24.18	374.6	0
10	18.21	33.67	-	24.22	370.7	.037
20	17.83	33.64	-	24.29	364.0	.074
30	17.59	33.62	-	24.34	359.9	.110
50	17.36	33.64	-	24.41	353.2	.182
75	15.91	33.50	-	24.44	331.4	.268
100	13.35	33.52	-	25.20	277.9	.345
125	11.55	33.64	-	25.64	236.0	.410
150	10.70	33.79	-	25.91	210.4	.466
200	9.79	34.07	-	26.28	174.8	.564
250	9.03	34.18	-	26.49	154.9	.649
300	8.76	34.30	-	26.63	141.9	.726
400	7.51	34.30	-	26.82	124.0	.865
500	6.48	34.31	-	26.97	109.8	.989

INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DB
107.60							CALCOFI CRUISE 6806							107.60

DAVID STARR JORDAN, JUNE 3 1968, 2140 GMT, 29 31N 118 01W, SOUNDING 1935 FM, WIND 300 4 KNOTS, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 07.

1	18.34	33.673	5.60	0.30	1	0.1	373.5	0	18.34	33.673	5.60	24.19	373.5	0
11	18.21	33.665	5.63	0.31	1	0.2	371.0	10	18.23	33.666	5.63	24.22	371.4	.037
30	17.63	33.640	5.73	0.30	2	0.2	359.4	20	17.95	33.653	5.69	24.27	365.7	.074
40	17.42	33.630	5.71	.31	2	0.2	355.3	30	17.63	33.640	5.73	24.34	359.4	.110
49	17.35	33.629	5.72	0.33	2	0.0	353.8	50	17.32	33.625	5.73	24.40	353.5	.182
64	16.48	33.546	5.83	0.34	2	0.5	340.4	75	15.02	33.485	5.79	24.42	313.7	.268
78	14.61	33.472	5.76	0.45	3	4.2	306.3	100	13.25	33.508	5.05	25.21	276.8	.340
98	13.42	33.496	5.17	0.76	6	0.2	281.0	125	11.33	33.694	3.75	25.72	228.2	.404
122	11.49	33.674	3.82	1.45	14	15.5	232.4	150	10.42	33.843	3.44	26.00	201.8	.459
142	10.65	33.800	3.51	1.71	18	19.0	208.8	200	9.66	34.087	2.62	26.32	171.5	.554
170	10.02	33.943	3.23	1.74	21	21.8	187.9	250	8.98	34.197	1.95	26.51	152.9	.637
200	9.66	34.087	2.62	2.38	26	25.7	171.5	300	8.52	34.266	1.27	26.64	140.9	.713
230	9.16	34.156	2.26	2.26	30	27.4	158.6	400	7.43	34.283	.74	26.82	124.2	.852
268	8.86	34.229	1.67	2.57	34	29.8	148.7	500	6.41	34.314	.42	26.98	108.7	.975
327	8.21	34.283	1.02	2.79	48	35.3	135.1							
399	7.44	34.283	.74	2.72	42	32.9	124.4							
471	6.67	34.306	.49	3.08	61	41.7	112.5							
549	6.05	34.326	.34	3.09	55	38.8	103.3							

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
110.35							CALCOFI CRUISE 6806							110.35

DAVID STARR JORDAN, JUNE 2 1968, 2341 GMT, 29 46N 115 59.5W, SOUNDING 610 FM, WIND 320 6 KNOTS, WEATHER OVERCAST, SEA SLIGHT.

0	17.60	33.56	-	24.29	364.5	0
10	17.07	33.56	-	24.41	352.5	.036
20	16.31	33.55	-	24.58	336.4	.070
30	14.75	33.49	-	24.88	307.8	.103
50	11.64	33.45	-	25.47	251.6	.159
75	10.36	33.45	-	25.86	215.1	.217
100	9.97	33.84	-	26.08	194.2	.269
125	9.46	34.00	-	26.28	174.8	.316
150	9.32	34.09	-	26.37	166.0	.359
200	9.01	34.25	-	26.55	149.4	.440
250	8.83	34.35	-	26.66	139.2	.514
300	8.22	34.36	-	26.76	129.5	.584
400	7.63	34.37	-	26.85	120.5	.718
500	6.52	34.33	-	26.98	108.6	.836
600	5.79	34.36	-	27.10	97.7	.947

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
110.35															

DAVID STARR JORDAN, JUNE 3 1968, 0025 GMT, 29 46N 115 59.5W, SOUNDED 610 FM, WIND 310 6 KNOTS, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 00.

0	17.54	33.557	6.15	0.35	5	0.1	363.4	0	17.54	33.557	6.15	24.30	363.4	0
10	17.12	33.554	5.95	0.33	4	0.1	354.0	10	17.12	33.554	5.95	24.40	354.0	.036
20	15.15	33.479	5.91	0.40	3	0.2	316.9	20	16.36	33.528	5.93	24.55	339.1	.071
30	12.68	33.375	5.57	0.68	6	3.4	275.9	30	14.92	33.466	5.90	24.83	313.0	.103
40	11.65	33.433	4.76	1.05	11	9.2	253.0	50	11.56	33.440	4.71	25.48	250.9	.160
50	10.65	33.538	4.29	1.39	16	14.8	228.2	75	10.34	33.654	3.80	25.86	214.6	.218
70	10.31	33.693	3.65	1.69	20	18.3	211.1	100	10.11	33.858	3.24	26.06	195.6	.270
90	10.19	33.835	3.29	1.87	22	19.8	198.6	125	9.41	34.007	2.93	26.30	173.5	.317
120	9.44	34.00 A	2.94	2.00	30	24.2	174.5	150	9.21	34.083	2.71	26.39	164.8	.360
140	9.27	34.054	2.86	2.10	32	25.0	167.9	200	8.99	34.247	1.56	26.55	149.3	.440
170	9.11	34.153	2.25	2.32	37	27.3	158.1	250	8.81	34.338	.97	26.65	139.8	.514
200	8.99	34.25	1.54	2.55	42	29.4	149.1	300	8.46	34.379	.63	26.74	131.6	.585
220	8.85	34.292	1.23	2.63	45	30.4	143.8	400	7.74	34.378	.42	26.85	121.3	.717
260	8.40	34.375	.76	2.84	48	31.5	136.9	500	6.46	34.351	.40	27.00	106.5	.838
320	8.11	34.366	.59	2.95	54	33.4	127.5							
400	7.73	34.378	.42	3.04	58	34.9	121.3							
470	6.73	34.351	.41	3.15	68	38.5	109.9							
550	6.08	34.366	.35	3.22	75	40.9	100.7							

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED				INPUT				COMPUTED			
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
110.40															

DAVID STARR JORDAN, JUNE 3 1968, 0248 GMT, 29 36.5N 116 19.5W, SOUNDED 1330 FM, WIND 310 6 KNOTS, WEATHER OVERCAST, SEA SLIGHT.

0	17.47	33.56	-	-	24.32	361.5	0	10	16.96	33.53	-	24.42	352.2	.036
20	16.57	33.49	-	-	24.48	346.5	.071	30	16.21	33.46	-	24.54	340.8	.105
50	14.42	33.38	-	-	24.87	309.2	.170	75	12.25	33.40	-	25.32	266.2	.243
100	10.80	33.48	-	-	25.65	234.9	.306	125	10.06	33.74	-	25.98	203.6	.361
150	9.50	33.89	-	-	26.19	183.6	.410	200	9.17	34.10	-	26.41	162.9	.499
250	8.52	34.18	-	-	26.57	147.3	.578	300	8.08	34.23	-	26.68	137.2	.652
400	7.17	34.28	-	-	26.85	121.0	.787	500	6.44	34.32	-	26.98	108.6	.908

INPUT								OUTPUT AT STANDARD LEVELS OF DEPTH							
Z	T	S	OXY	PHD	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD	
110.40															

DAVID STARR JORDAN, JUNE 3 1968, 0320 GMT, 29 36.5N 116 19.5W, SOUNDED 1330 FM, WIND 310 6 KNOTS, WEATHER OVERCAST, SEA SLIGHT, WIRE ANGLE 05.

0	17.40	33.573	6.16	0.26	3	0.2	359.0	0	17.40	33.573	6.16	24.35	359.0	0
10	16.96	33.552	6.01	0.25	3	0.1	350.6	10	17.01	33.554	6.02	24.42	351.5	.036
30	16.00	33.507	6.08	0.18	2	0.1	332.8	20	16.59	33.542	6.01	24.51	343.1	.070
40	15.01	33.415	6.12	0.24	2	0.1	318.6	30	16.09	33.507	6.08	24.62	332.8	.104
45	14.40	33.391	6.13	0.16	2	0.1	308.0	50	14.29	33.389	6.12	24.90	305.9	.168
60	12.80	33.382	5.80	0.62	5	2.9	277.6	75	12.17	33.407	5.49	25.34	264.1	.240
70	12.03	33.417	5.39	0.74	8	5.6	260.9	100	10.84	33.511	4.53	25.67	233.3	.303
90	10.88	33.505	4.56	0.82	12	8.3	234.4	125	10.07	33.703	3.84	25.95	206.4	.358
120	10.10	33.682	3.92	1.25	17	14.9	208.5	150	9.67	33.907	3.28	26.17	185.0	.408
140	9.84	33.870	3.29	1.65	22	18.2	190.4	200	9.17	34.096	2.65	26.40	163.2	.497
170	9.30	33.966	3.25	1.52	25	18.8	176.9	250	8.63	34.163	2.03	26.54	150.2	.577
200	9.17	34.096	2.65	1.54	28	22.9	163.2	300	8.10	34.225	1.36	26.67	137.9	.652
230	8.99	34.136	2.36	2.06	32	24.2	156.2	400	7.11	34.292	.80	26.87	119.3	.786
260	8.37	34.187	1.73	2.30	37	28.0	144.5	500	6.42	34.336	.42	27.00	107.1	.906
320	7.90	34.253	1.11	2.63	43	32.6	132.9							
390	7.12	34.291	.81	2.75	51	35.1	119.5							
470	6.62	34.328	.43	2.98	56	37.7	110.2							
550	6.08	34.342	.40	3.15	62	41.4	102.0							

AN AN ERROR OF +0.02 IN THE CONDUCTIVITY RATIO HAS BEEN ASSUMED FOR THIS VALUE. THE LISTED OBSERVED AND INTERPOLATED VALUES INCORPORATE THE CORRECTION.

OBSERVED LEVELS OF DEPTH							STANDARD LEVELS OF DEPTH							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
110.50								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 3 1968, 0825 GMT, 29 17N 116 59.5W, SOUNDING 2000 FM, WIND 330 3 KNOTS, WEATHER MISSING, SEA MISSING.														
0	17.88	33.64	-	24.28	365.1	0		0	17.84	33.65	-	24.30	363.5	.036
10	17.84	33.65	-	24.30	363.5	.036		20	17.63	33.64	-	24.34	359.4	.073
20	17.63	33.64	-	24.34	357.8	.109		30	17.56	33.64	-	24.36	357.2	.180
30	17.56	33.64	-	24.42	352.2	.180		50	17.09	33.57	-	24.42	352.2	.180
50	17.09	33.57	-	24.42	352.2	.180		75	15.99	33.46	-	24.59	336.0	.266
75	15.99	33.46	-	24.59	336.0	.266		100	12.89	33.26	-	25.09	288.3	.345
100	12.89	33.26	-	25.09	288.3	.345		125	11.23	33.67	-	25.72	228.2	.410
125	11.23	33.67	-	25.72	228.2	.410		150	10.51	33.85	-	25.99	202.8	.465
150	10.51	33.85	-	25.99	202.8	.465		200	9.93	34.17	-	26.34	169.7	.560
200	9.93	34.17	-	26.34	169.7	.560		250	9.71	34.32	-	26.49	155.0	.643
250	9.71	34.32	-	26.49	155.0	.643		300	9.81	34.46	-	26.58	146.3	.721
300	9.81	34.46	-	26.58	146.3	.721		400	8.45	34.40	-	26.76	129.9	.866
400	8.45	34.40	-	26.76	129.9	.866		500	7.05	34.33	-	26.91	115.6	.957
500	7.05	34.33	-	26.91	115.6	.957		600	6.07	34.32	-	27.03	104.0	1.114
110.60								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 3 1968, 1325 GMT, 28 56.5N 117 38.5W, SOUNDING 1925 FM, WIND 330 6 KNOTS, WEATHER OVERCAST, SEA MODERATE.														
0	17.57	33.58	-	24.31	362.4	0		10	17.57	33.58	-	24.31	362.4	.036
20	17.35	33.59	-	24.37	356.6	.072		30	17.10	33.56	-	24.41	353.2	.108
30	17.10	33.56	-	24.41	353.2	.108		50	16.32	33.52	-	24.56	338.8	.177
50	16.32	33.52	-	24.56	338.8	.177		75	14.59	33.39	-	24.84	311.9	.259
75	14.59	33.39	-	24.84	311.9	.259		100	12.55	33.45	-	25.30	268.0	.332
100	12.55	33.45	-	25.30	268.0	.332		125	11.45	33.65	-	25.66	233.5	.355
125	11.45	33.65	-	25.66	233.5	.355		150	10.67	33.83	-	25.94	206.9	.451
150	10.67	33.83	-	25.94	206.9	.451		200	10.24	34.21	-	26.31	171.7	.548
200	10.24	34.21	-	26.31	171.7	.548		250	9.45	34.28	-	26.50	153.9	.631
250	9.45	34.28	-	26.50	153.9	.631		300	9.27	34.38	-	26.61	143.7	.709
300	9.27	34.38	-	26.61	143.7	.709		400	8.41	34.44	-	26.79	126.3	.850
400	8.41	34.44	-	26.79	126.3	.850		500	7.17	34.38	-	26.93	113.5	.978
500	7.17	34.38	-	26.93	113.5	.978		600	5.99	34.33	-	27.05	102.3	1.094
110.60								OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	DAT	Z	T	S	OXY	SIGHT	DAT	DD
110.60								CALCOFI CRUISE 6806						
DAVID STARR JORDAN, JUNE 3 1968, 1523 GMT, 28 56.5N 117 38.5W, SOUNDING 1925 FM, WIND 330 6 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 07.														
1	17.55	33.588	5.70	0.28	2	0.2	361.3	0	17.55	33.588	5.70	24.32	361.3	0
11	17.53	33.586	5.74	0.34	2	0.2	361.0	10	17.54	33.587	5.74	24.32	361.2	.036
30	17.04	33.561	5.82	0.31	2	0.2	351.7	20	17.35	33.575	5.80	24.36	357.7	.072
40	16.69	33.554	5.74	0.33	2	0.1	344.4	30	17.04	33.561	5.82	24.42	351.7	.108
49	16.44	33.525	5.78	0.50	2	0.2	341.1	50	16.41	33.523	5.78	24.54	340.5	.177
64	15.87	33.489	5.83	0.76	2	0.2	331.3	75	14.53	33.416	5.87	24.87	308.8	.259
78	14.12	33.396	5.87	0.48	3	0.5	302.0	100	12.18	33.393	5.29	25.33	265.5	.331
98	12.27	33.376	5.40	0.72	6	4.8	268.3	125	11.46	33.652	3.97	25.66	233.5	.354
122	11.57	33.630	4.06	1.28	13	14.1	237.1	150	10.58	33.824	3.39	25.95	205.9	.450
141	10.88	33.759	3.61	1.55	16	18.0	215.7	200	10.31	34.218	1.87	26.31	172.3	.546
170	10.14	33.976	2.84	1.98	23	23.2	187.4	250	9.45	34.315	1.41	26.50	154.4	.630
199	10.32	34.214	1.88	2.12	27	25.9	172.7	300	9.17	34.369	.92	26.62	143.0	.707
229	9.87	34.274	1.69	2.44	30	27.6	161.0	400	8.39	34.440	.36	26.80	126.0	.848
267	9.49	34.343	1.18	2.56	34	30.3	149.9	500	7.28	34.395	.34	26.92	113.9	.976
326	8.94	34.381	.78	2.75	39	31.7	138.6							
398	8.41	34.441	.36	2.94	44	31.7	126.3							
470	7.62	34.406	.35	3.03	50	36.1	117.7							
548	6.74	34.380	.33	3.11	57	39.4	107.9							

OBSERVED LEVELS OF DEPTH						STANDARD LEVELS OF DEPTH									
	INPUT		COMPUTED		INPUT		COMPUTED		INPUT		COMPUTED				
Z	T	S	OXY	PHO	STL	NIT	DEPT	T	T	S	OXY	SIGHT	DEPT	PH	
113.35															113.35
CALCOFI CRUISE 6806															

DAVID STARR JORDAN, JUNE 2 1968, 1353 GMT, 29 11.5N 115 38.5W, SOUNDING 740 FM, WIND 320 4 KNOTS, WEATHER OVERCAST, SEA MODERATE.

0	16.35	33.52	-	24.55	339.4	0
10	16.21	33.50	-	24.57	337.9	.034
20	14.53	33.49	-	24.93	303.3	.066
30	13.12	33.50	-	25.23	275.0	.095
50	11.57	33.42	-	25.46	252.6	.148
75	10.46	33.66	-	25.83	217.5	.207
100	9.98	33.80	-	26.07	194.9	.259
125	9.58	33.97	-	26.24	178.9	.306
150	9.45	34.02	-	26.30	173.2	.351
200	8.78	34.15	-	26.51	153.3	.434
250	8.56	34.26	-	26.63	141.9	.510
300	8.10	34.30	-	26.73	132.3	.581
400	7.16	34.32	-	26.88	117.8	.712
500	6.78	34.38	-	26.98	108.4	.832

113.39 CALCOFI CRUISE 6806 113.39

DAVID STARR JORDAN, JUNE 2 1968, 1100 GMT, 29 09.5N 115 59W, SOUNDING 1000 FM, WIND 300 6 KNOTS, WEATHER MISSING, SEA MISSING.

0	17.73	33.59	-	24.28	365.3	0
10	17.51	33.52	-	24.28	365.4	.037
20	16.66	33.55	-	24.50	344.1	.072
30	16.35	33.47	-	24.51	343.1	.107
50	13.96	33.42	-	25.00	297.1	.171
75	11.91	33.40	-	25.38	260.1	.241
100	10.50	33.68	-	25.86	215.2	.301
125	9.68	33.81	-	26.10	192.3	.352
150	9.29	33.95	-	26.27	175.9	.399
200	8.84	34.11	-	26.47	157.2	.484
250	8.31	34.17	-	26.60	144.9	.561
300	7.85	34.21	-	26.70	135.4	.634
400	7.07	34.28	-	26.86	119.6	.767
500	6.40	34.32	-	26.99	108.1	.887
600	5.67	34.35	-	27.10	97.0	.957

113.50 CALCOFI CRUISE 6806 113.50

DAVID STARR JORDAN, JUNE 2 1968, 0526 GMT, 28 46N 116 37.5W, SOUNDING 1940 FM, WIND 360 6 KNOTS, WEATHER MISSING, SEA MISSING.

0	17.58	33.60	-	24.32	361.1	0
10	17.58	33.62	-	24.34	359.7	.036
20	17.54	33.63	-	24.36	358.0	.072
30	16.80	33.54	-	24.46	347.9	.107
50	16.09	33.39	-	24.51	343.3	.177
75	14.40	33.34	-	24.84	311.7	.259
100	12.44	33.35	-	25.25	273.3	.333
125	11.28	33.75	-	25.77	223.2	.395
150	10.72	33.88	-	25.97	204.1	.450
200	9.75	34.15	-	26.35	168.3	.545
250	9.23	34.24	-	26.51	153.5	.627
300	8.96	34.29	-	26.59	143.6	.705
400	7.82	34.31	-	26.78	127.6	.847
500	6.63	34.28	-	26.92	113.9	.975

O B S E R V E D L E V E L S O F D E P T H							S T A N D A R D L E V E L S O F D E P T H							
INPUT				COMPUTED			INPUT				COMPUTED			
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
113.60				CALCOFI CRUISE 6806										113.60
DAVID STARR JORDAN, JUNE 1 1968, 2343 GMT, 28 22N 117 16W, SOUNDING 1875 FM, WIND 230 2 KNOTS, WEATHER OVERCAST, SEA MODERATE.														
0	17.25	33.57	-	24.38	355.8	0								
10	17.06	33.56	-	24.42	352.3	.035								
20	17.05	33.56	-	24.42	352.0	.071								
30	16.93	33.54	-	24.43	350.8	.106								
50	15.07	33.48	-	24.81	315.1	.173								
75	13.03	33.41	-	25.18	279.9	.248								
100	11.30	33.50	-	25.57	242.0	.313								
125	10.50	33.84	-	25.98	203.3	.370								
150	10.35	34.18	-	26.27	175.7	.418								
200	9.81	34.30	-	26.46	158.1	.503								
250	9.35	34.36	-	26.58	146.4	.581								
300	8.94	34.41	-	26.69	136.4	.655								
400	7.92	34.42	-	26.85	120.8	.790								
500	6.72	34.39	-	27.00	106.9	.911								

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
113.60				CALCOFI CRUISE 6806										113.60
DAVID STARR JORDAN, JUNE 2 1968, 0025 GMT, 28 22N 117 16W, SOUNDING 1875 FM, WIND 230 2 KNOTS, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 10.														
3	17.16	33.558	5.71	0.37	1	0.1	354.7	0	17.16	33.558	5.71	24.39	354.7	0
12	17.08	-	5.78	-	-	-	-	10	17.09	33.557	5.77	24.41	353.2	.035
33	17.05	33.554	5.76	0.35	2	0.4	352.5	20	17.07	33.556	5.76	24.41	352.7	.071
42	16.62	33.541	5.89	0.38	2	0.2	343.8	30	17.05	33.557	5.76	24.42	352.3	.106
51	15.46	33.493	5.99	0.39	3	0.2	322.3	50	15.60	33.499	5.98	24.70	324.9	.174
65	14.25	33.472	5.74	0.54	4	0.8	299.0	75	13.34	33.459	5.41	25.15	282.1	.250
79	12.98	33.457	-	0.74	6	3.9	275.5	100	11.44	33.519	4.47	25.57	242.9	.316
97	11.60	33.507	4.57	1.16	8	10.8	246.7	125	10.56	33.714	3.59	25.87	213.7	.374
121	10.65	33.664	3.75	1.56	13	17.1	218.8	150	10.36	34.021	2.55	26.15	187.7	.425
141	10.36	33.922	2.95	1.91	19	21.4	195.0	200	9.89	34.226	1.90	26.39	164.8	.515
169	10.37	34.173	1.91	2.34	26	25.3	176.6	250	9.48	34.328	1.23	26.53	150.9	.596
196	9.93	34.216	1.94	2.29	33	26.4	166.3	300	9.05	34.374	.84	26.64	140.8	.672
226	9.67	34.292	1.53	2.52	34	28.1	156.5	400	7.66	34.328	.66	26.82	124.1	.811
263	9.38	34.341	1.09	2.63	38	29.5	148.3	500	6.89	34.376	.38	26.96	110.2	.935
323	8.81	34.383	.75	2.76	42	31.4	136.5							
395	7.72	34.328	.67	2.94	47	34.1	124.8							
468	7.07	34.351	.47	3.05	55	36.6	114.3							
545	6.76	34.426	.24	3.15	62	38.4	104.7							

A) THE DATA FOR THIS STD WERE NOT ENTERED ON THE MAGNETIC TAPE. THE VALUES HAVE BEEN DIGITIZED FROM THE RECORDING WITHOUT CORRECTION.

NITRITE DATA FOR CALCOFI CRUISE 6806

SIO

CalCOFI
6806

Z	NO ₂ -N
m	μg at/L

Station 60.52.

0	0.05
10	0.09
19	0.09
29	0.09
50	0.12
94	0.09
112	0.08
132	0.07
151	0.12
180	0.02
213	0.02
243	0.01
291	0.01
344	0.00
426	0.02
509	0.01
590	0.00

Z	NO ₂ -N
m	μg at/L

Station 60.60.

1	0.05
12	0.03
30	0.06
40	0.10
54	0.10
69	0.11
93	0.01
113	0.03
132	0.02
152	0.03
181	0.03
215	0.02
245	0.01
294	0.04
348	0.03
430	0.03
513	0.02
594	0.02

Z	NO ₂ -N
m	μg at/L

Station 60.80.

1	0.06
12	0.05
31	0.05
40	0.05
54	0.05
69	0.07
93	0.01
113	0.03
132	0.02
152	0.03
181	0.03
215	0.02
245	0.01
294	0.04
348	0.03
430	0.03
513	0.02
594	0.02

Z	NO ₂ -N
m	μg at/L

Station 63.52.

0	-
4	0.01
12	0.07
23	0.09
32	0.09
51	0.08

Station 63.60.

Station 67.50.

Station 67.60.

Station 70.53.

1	0.04
11	0.04
30	0.07
39	0.03
53	0.01
67	0.11
91	0.12
111	0.03
129	0.03
149	0.00
178	0.07
213	0.03
244	0.02
292	0.01
347	0.01
428	0.01
510	0.02
591	0.00

2	0.05
11	0.07
27	0.06
36	0.05
46	0.09
59	0.07
75	0.06
98	0.07

1	0.04
11	0.02
30	0.02
39	0.03
53	0.01
67	0.02
92	0.00
110	0.03
129	0.01
148	0.01
176	0.03
210	0.01
238	0.02
285	0.04
338	0.02
422	0.02
505	0.01
587	0.01

0	0.07
11	0.07
28	0.07
39	0.05
49	0.04
63	0.03
78	0.04
95	0.05
121	0.03
141	0.03
169	0.03
198	0.01
228	0.03
267	0.05
326	0.03
399	0.03
471	0.04
549	0.01

Z	NO ₂ -N
m	μg at/L

Station 70.60.

0	0.01
11	0.03
30	0.05
40	0.05
49	0.05
64	0.03
78	0.16
97	0.02
121	0.01
141	0.01
170	0.01
200	0.02
228	0.01
267	0.02
325	0.01
398	0.02
471	0.02
548	0.01

Z	NO ₂ -N
m	μg at/L

Station 70.80.

1	0.02
11	0.02
30	0.03
40	0.05
50	0.06
64	0.09
79	0.10
98	0.08
122	0.05
141	0.01
171	0.03
201	0.01
229	0.01
268	0.02
327	0.02
399	0.02
472	0.02
549	0.01

Z	NO ₂ -N
m	μg at/L

Station 73.53.

1	0.05
10	0.06
29	0.07
39	0.07
53	0.03
68	0.05
92	0.01
111	0.04
131	0.03
150	0.01
179	0.01
213	0.02
243	0.02
292	0.01
346	0.01
429	0.01
511	0.01
593	0.04

Z	NO ₂ -N
m	μg at/L

Station 73.60.

1	0.07
10	0.07
29	0.05
38	0.03
48	0.07
61	0.02
75	0.01
92	0.02
115	0.02
135	0.01
161	0.01
189	0.01
217	0.01
254	0.05
310	0.01
379	0.02
449	0.02
526	0.02

Station 77.51.

Station 77.60.

Station 80.52.

Station 80.60.

1	0.15
10	0.15
30	0.15
44	0.15
53	0.17
67	0.15
81	0.22
100	0.23
124	0.18
142	0.20
175	0.15
203	0.11
239	0.14
268	0.03
326	0.02
399	0.03
472	0.03
551	0.01

3	0.06
13	0.07
32	0.07
47	0.07
55	0.07
70	0.09
85	0.05
106	0.05
129	0.05
149	0.05
181	0.05
210	0.03
245	0.01

0	0.15
8	0.15
27	0.13
37	0.16
46	0.18
61	0.19
76	0.17
95	0.22
119	0.07
139	0.05
169	0.03
198	0.01
227	0.01
266	0.01
323	0.02
397	0.01
470	0.00
546	0.01

SIO
CalCOFI
6806

Z	NO ₂ -N
m	µg at/L

Station 80.80.

1	0.01
11	0.01
30	0.02
56	0.06
66	0.19
80	0.21
93	0.05
107	0.03
130	0.04
149	0.00
177	0.02
205	0.02
234	0.00
280	0.01
332	0.01
413	0.00
495	0.00
576	0.02
0	0.00
10	0.12
29	0.19
43	0.26
52	0.26
66	0.27
81	0.21
95	0.26
119	0.12
139	0.05
166	0.06
195	0.01
224	0.00
263	0.00
321	0.03
373	0.03
433	0.01
490	0.01

Z	NO ₂ -N
m	µg at/L

Station 82.47.

Z	NO ₂ -N
m	µg at/L

Station 83.43.

Z	NO ₂ -N
m	µg at/L

Station 83.60

Station 87.60.

Station 90.28.

Station 90.37

Station 90.60.

1	0.02
11	0.02
30	0.03
39	0.09
49	0.10
62	0.28
76	0.05
95	0.03
119	0.01
138	0.03
167	0.02
195	0.03
224	0.01
261	0.01
321	0.01
394	0.04
467	0.08
544	0.03
1	0.02
11	0.05
31	0.15
45	0.13
56	0.09
70	0.04
85	0.11
105	0.09
129	0.11
148	0.06
182	0.05
211	0.04
249	0.04
2	0.00
12	0.01
30	0.39
40	0.17
54	0.07
69	0.03
94	0.03
113	-
132	0.05
152	0.01
182	0.01
214	0.01
244	0.01
293	0.05
348	0.04
431	0.11
513	0.08
596	0.05

Z	NO ₂ -N
m	µg at/L

Station 90.80.

0	0.02
11	0.01
29	0.01
39	0.02
52	0.05
66	0.05
90	0.09
109	0.07
127	0.05
146	0.08
174	0.03
208	0.03
236	0.02
283	0.00
334	0.01
415	0.04
496	0.09
579	0.04
2	0.01
11	0.01
30	0.00
38	0.09
47	0.15
60	0.28
74	0.08
91	0.05
114	-
133	0.03
161	0.02
188	0.03
214	0.03
253	0.03
309	0.03
378	0.03
449	0.00
526	0.03

Z	NO ₂ -N
m	µg at/L

Station 93.60.

1	0.01
11	0.01
30	0.02
39	0.00
49	0.05
62	0.15
77	0.14
95	0.05
119	0.05
138	0.01
167	0.03
195	0.01
223	0.00
262	0.02
321	0.02
394	0.02
466	0.03
544	0.05

Z	NO ₂ -N
m	µg at/L

Station 97.60.

3	0.05
11	0.03
32	0.05
45	0.03
59	0.05
75	0.03
89	0.03
107	0.04
131	0.01
151	0.05
193	0.03
226	0.03
258	0.01
295	0.03

Station 100.40.

Station 100.60.

Station 100.80.

Station 103.60.

2	0.01
14	0.03
31	0.18
45	0.08
54	0.04
69	0.01
83	0.03
103	0.02
127	0.01
147	0.01
175	0.02
205	0.02
234	0.02
273	0.03
330	0.02
402	0.00
476	0.01
553	0.00
1	0.02
11	0.04
30	0.01
40	0.03
50	0.02
64	0.03
79	0.08
98	0.04
123	0.03
142	0.03
171	0.03
200	0.03
230	0.00
269	0.04
328	0.05
401	0.05
473	0.02
551	0.04

0	0.02
11	0.01
30	0.01
59	0.01
67	0.00
83	0.01
97	0.01
111	0.01
135	0.04
155	0.02
184	0.02
213	0.00
242	0.01
291	0.05
344	0.01
427	0.01
509	0.00
592	0.01

SIO

CalCOFI
6806

Z	NO ₂ -N
m	µg at/L

Station 107.60.

1	0.01
11	0.01
30	0.01
40	0.02
49	0.02
64	0.02
78	0.05
98	0.16
122	0.03
142	0.02
170	0.02
200	0.02
230	0.03
268	0.03
327	0.03
399	0.02
471	0.01
549	0.02

Z	NO ₂ -N
m	µg at/L

Station 110.35.

0	0.09
10	0.04
29	0.02
40	0.03
49	0.32
63	0.03
79	0.02
97	0.08
123	0.12
141	0.02
171	0.02
201	0.03
229	0.01
269	0.02
328	0.01
401	0.03
473	0.04
553	0.01

Z	NO ₂ -N
m	µg at/L

Station 110.40.

1	0.04
11	0.03
30	0.00
40	0.02
49	0.04
64	0.18
78	0.41
99	0.10
123	0.05
142	0.05
170	0.03
200	0.03
230	0.03
269	0.05
327	0.01
399	0.00
472	0.01
550	0.03

Z	NO ₂ -N
m	µg at/L

Station 110.60.

1	0.01
11	0.03
30	0.00
40	0.01
49	0.00
64	0.03
78	0.05
98	0.24
122	0.07
141	0.05
170	0.04
199	0.01
229	0.03
267	0.01
326	0.01
398	0.02
470	0.03
548	0.01

Station 113.60.

3	0.03
12	-
33	0.02
42	0.03
51	0.05
65	0.14
79	0.28
97	0.05
121	0.03
141	0.03
169	0.02
196	0.01
226	0.02
263	0.02
323	0.01
395	0.03
468	0.03
545	0.03

Station	Date	Time	DATA AT NET TOW STATIONS						10 METERS								
			Latitude	Longitude	Sounding	Wind	Weather	Sea	T	S	O ₂	PO ₄ -P	SiO ₃ -Si	NO ₃ -N	NO ₂ -N	δT	
		GMT	North	West	fm	Dir	Force		°C	%	ml/L	μg at/L	μg at/L	μg at/L	μg at/L	cl/ton	
60.55-J	VI-19	2215	37°47.5'	123°14.5'	57	350°	12	overcast	moderate	9.98	33.734	5.46	1.68	27	21.2	0.11	203
60.70-J	19	1455	37°17.0'	124°21.0'	2150	330°	12	overcast	rough	13.50	32.907	6.34	0.53	5	1.6	0.03	326
60.90-J	19	0505	36°37.0'	125°47.0'	2400	340°	20	cloudy	rough	14.93	32.922	6.03	0.35	1	1.3	0.01	353
63.55-J	20	2146	37°12.5'	122°49.5'	140	350°	6	clear	moderate	10.56	33.624	6.15	1.28	17	14.8	0.07	220
63.90-J	19	0025	36°02.0'	125°22.0'	2500	340°	18	overcast	rough	14.52	32.877	6.13	0.44	2	1.1	0.02	348
67.55-J	21	0850	36°39.0'	122°26.0'	1200	330°	16	clear	moderate	14.10	33.436	6.32	0.52	2	2.3	0.04	299
67.90-J	18	1925	35°28.0'	124°55.0'	2400	340°	13	overcast	rough	15.81	33.121	5.88	0.43	2	1.5	0.01	357
70.51-J	17	1700	36°11.5'	121°44.0'	125	calm		fog	moderate	10.98	33.860	6.09	1.55	22	17.2	0.08	210
70.70-J	18	0448	35°33.0'	123°05.0'	2100	320°	10	missing	missing	13.48	33.303	6.26	0.69	3	2.4	0.03	296
70.90-J	18	1420	34°53.0'	124°28.0'	2350	010°	12	overcast	rough	15.40	33.120	5.94	0.35	2	1.3	0.01	348
73.50-J	18	1300	35°37.0'	121°17.0'	53	320°	4	cloudy	moderate	11.06	33.836	6.59	0.91	4	9.2	0.07	213
77.48-J	16	1825	35°08.5'	120°43.5'	15	220°	6	fog	slight	10.58	33.918	6.11	1.26	11	13.4	0.09	199
77.55-J	16	2245	34°54.0'	121°12.0'	305	300°	5	overcast	rough	13.68	33.449	6.42	0.55	1	2.7	0.11	290
80.51-J	22	0315	34°26.0'	120°32.5'	54	310°	28	clear	rough	11.01	33.858	4.80	1.64	20	18.9	0.04	211
80.55-J	16	1305	34°19.0'	120°48.0'	415	140°	6	fog	very rough	12.21	33.860	6.17	0.78	13	9.0	0.15	232
80.65-J	16	0705	33°59.0'	121°30.0'	1850	260°	2	missing	missing	15.28	33.275	6.07	0.37	3	0.1	0.00	334
80.70-J	16	0420	33°48.0'	121°52.0'	2000	340°	10	overcast	rough	-	33.256	6.10	0.40	2	0.1	0.02	-
80.90-J	15	1710	33°14.0'	123°13.0'	2375	330°	18	overcast	very rough	15.11	33.269	5.97	0.38	2	0.2	0.02	331
83.40-J	14	0330	34°14.0'	119°22.0'	12	320°	1	clear	slight	13.38	33.657	6.07	0.57	7	2.9	0.07	268

Station	Date	Time	DATA AT NET TOW STATIONS			10 METERS												
			Latitude	Longitude	Sounding	Wind	Weather	Sea	T	S	O ₂	PO ₄ -P	SiO ₃ -Si	NO ₃ -N	NO ₂ -N	δT		
		GMT	North	West	fm	Dir	Force	°C	%	ml/L	μg at/L	μg at/L	μg at/L	μg at/L	cl/ton			
83.51-J	VI-14	1245	33°52.0'	120°08.5'	60	300°	4	clear	rough	12.51	33.624	5.27	0.91	11	8.0	0.09	254	
83.55-J		14	33°45.0'	120°22.5'	675	320°	14	clear	rough	12.66	33.714	5.68	0.74	11	4.1	0.11	251	
83.65-J		14	2115	33°24.0'	121°06.0'	1950	320°	18	clear	very rough	13.81	33.473	6.16	0.65	2	3.4	0.05	290
83.70-J		15	0025	33°14.5'	121°26.0'	2100	310°	22	cloudy	high	14.86	33.263	6.01	0.40	2	0.1	0.00	327
83.80-J		15	0553	32°55.0'	122°07.0'	2300	330°	16	missing	missing	14.33	33.279	6.11	0.40	2	0.3	0.03	315
83.90-J		15	1035	32°35.0'	122°50.5'	2350	330°	17	missing	missing	15.55	33.292	5.92	0.36	3	0.2	0.03	339
87.33-J		13	2245	33°54.0'	118°29.5'	25	270°	1	partly cloudy	slight	17.24	33.598	6.43	0.28	6	0.1	0.02	354
87.35-J		13	2140	33°50.0'	118°37.5'	245	240°	4	partly cloudy	moderate	18.04	33.594	6.06	0.28	5	0.2	0.03	372
87.40-J		13	1900	33°40.0'	118°58.0'	435	210°	2	cloudy	moderate	10.88	33.687	3.97	1.27	21	15.8	0.11	221
87.45-J		13	1623	33°30.0'	119°19.0'	925	130°	2	clear	moderate	13.39	33.658	5.54	0.79	13	5.9	0.13	268
87.50-J		13	1315	33°20.0'	119°39.5'	40	310°	10	clear	moderate	13.05	33.694	5.50	1.02	15	9.1	0.12	259
87.55-J		13	1030	33°09.5'	120°00.0'	650	320°	18	clear	very rough	13.38	33.656	5.95	0.53	10	1.1	0.06	268
87.65-J		13	0337	32°51.0'	120°41.0'	2150	320°	18	partly cloudy	very rough	15.29	33.356	5.92	0.38	2	0.1	0.00	329
87.70-J		13	0018	32°42.0'	121°01.0'	2100	340°	17	partly cloudy	very rough	15.08	33.299	6.00	0.34	2	0.2	0.01	329
87.80-J		12	1850	32°19.0'	121°44.0'	2150	340°	10	partly cloudy	rough	15.46	33.317	5.90	0.40	2	0.0	0.00	335
87.90-J		12	1235	31°59.0'	122°27.0'	2200	320°	17	partly cloudy	rough	15.68	33.421	5.86	0.32	2	0.2	0.02	332
90.32-J		11	0120	33°20.0'	118°02.0'	410	310°	14	clear	moderate	13.56	33.472	5.95	0.55	7	1.3	0.05	285
90.45-J		11	0825	32°54.5'	118°55.0'	1000	290°	10	clear	rough	15.77	33.636	6.10	0.22	4	0.9	0.02	318
90.53-J		11	1210	32°38.0'	119°28.0'	625	320°	16	drizzle	rough	14.35	33.403	6.12	0.33	2	0.5	0.02	306

Station	Date	Time	DATA AT NET TOW STATIONS								10 METERS							
			Latitude North	Longitude West	Sounding fm	Wind Dir	Weather	Sea	T °C	S ‰	O ₂ ml/L	PO ₄ -P µg at/L	SiO ₃ -Si µg at/L	NO ₃ -N µg at/L	NO ₂ -N µg at/L	δT cl/ton		
90.65-J	VI-11	1955	32°14.5'	120°18.0'	2100	320°	16	overcast	rough	14.58	33.351	5.99	0.39	3	0.7	0.03	314	
90.70-J		11	2240	32°05.0'	120°40.0'	2050	320°	16	overcast	rough	15.00	33.324	5.96	0.37	2	0.0	0.01	325
90.90-J		12	0755	31°25.0'	122°00.0'	2100	320°	10	missing	missing	16.66	33.496	5.76	0.25	2	0.0	0.00	348
93.27-J		10	1350	32°56.0'	117°19.0'	50	calm	clear	slight	14.62	33.533	5.79	0.43	7	0.2	0.02	302	
93.28-J		10	1305	32°54.5'	117°22.0'	325	020°	4	clear	slight	14.90a)	33.527	6.00	0.42	7	0.1	0.03	308
93.30-J		10	1125	32°50.5'	117°31.0'	450	calm	missing	missing	16.10	33.531	6.06	0.21	3	0.1	0.03	333	
93.35-J		10	0850	32°42.0'	117°50.5'	350	320°	4	clear	moderate	16.62	33.570	5.91	0.32	3	0.0	0.03	342
93.40-J		10	0625	32°30.0'	118°12.0'	950	320°	10	clear	moderate	15.05	33.592	6.08	0.31	4	1.3	0.06	306
93.45-J		10	0345	32°20.0'	118°33.0'	650	300°	8	cloudy	rough	15.94	33.584	5.95	0.29	3	0.1	0.06	326
93.50-J		10	0120	32°11.0'	118°53.0'	600	300°	14	overcast	rough	14.96	33.631	6.09	0.38	4	1.3	0.04	302
93.55-J		9	2202	31°59.0'	119°16.0'	850	300°	12	cloudy	rough	15.56	33.479	5.93	0.39	2	0.2	-	326
93.65-J		9	1515	31°40.0'	119°53.0'	2050	310°	16	overcast	very rough	15.99	33.497	5.83	0.36	2	0.1	0.01	333
93.70-J		9	1215	31°29.0'	120°15.0'	2200	320°	20	missing	missing	15.94	33.491	5.84	0.34	2	0.2	0.02	333
93.80-J		9	0745	31°09.0'	120°56.0'	2000	340°	18	missing	missing	16.89	33.558	5.70	0.33	2	0.2	0.03	349
93.90-J		9	0315	30°49.5'	121°35.5'	2200	340°	14	cloudy	very rough	16.32	33.505	5.81	0.46	2	0.4	0.01	340
97.29-J		7	1255	32°17.5'	117°04.5'	28	270°	12	overcast	rough	12.20	33.671	4.52	0.98	14	5.6	0.22	245
97.30-J		7	1325	32°16.0'	117°07.0'	32	270°	12	overcast	rough	11.88	33.568	4.58	0.97	14	6.0	0.32	247

a) Mean value of 14.85 and 14.96°C.

Station	Date	Time	DATA AT NET TOW STATIONS						10 METERS								
			Latitude	Longitude	Sounding	Wind	Weather	Sea	T	S	O ₂	PO ₄ -P	SiO ₃ -Si	NO ₃ -N	NO ₂ -N	δ _T	
		GMT	North	West	fm	Dir	Force	°C	%	ml/L	μg at/L	μg at/L	μg at/L	μg at/L	cl/ton		
97.32-J	VI-7	1440	32°12.0'	117°15.0'	750	270°	12	partly cloudy	rough	17.30	33.572	5.81	0.29	4	0.2	0.05	357
97.35-J	7	1645	32°05.5'	117°27.5'	705	270°	13	overcast	rough	16.33	33.590	5.91	0.31	4	0.2	0.00	334
97.40-J	7	2010	31°55.0'	117°47.5'	850	300°	12	overcast	rough	16.13	33.538	5.86	0.34	3	0.2	0.03	333
97.45-J	7	2310	31°46.0'	118°08.0'	940	300°	14	overcast	very rough	16.50	33.545	5.88	0.21	2	0.2	0.02	341
97.50-J	8	0225	31°35.5'	118°29.0'	1150	290°	17	overcast	very rough	14.94	33.578	6.13	0.47	4	1.6	0.08	305
97.55-J	8	0455	31°25.5'	118°49.0'	420	320°	12	overcast	rough	-	33.503	5.80	0.28	2	0.1	0.02	-
97.65-J	8	1040	31°05.0'	119°28.5'	1940	300°	20	missing	very rough	16.54	33.550	5.75	0.32	2	0.1	0.01	341
97.70-J	8	1315	30°56.0'	119°48.5'	1870	300°	16	overcast	rough	16.33	33.460	5.77	0.34	3	0.0	0.01	343
97.80-J	8	1900	30°35.5'	120°29.0'	2090	300°	14	cloudy	very rough	16.95	33.481	5.73	0.33	2	0.1	0.01	356
100.29-J	7	0825	31°42.0'	116°43.5'	55	310°	3	missing	missing	14.14	33.575	5.82	0.67	10	0.5	0.09	289
100.35-J	7	0405	31°30.5'	117°07.0'	645	310°	12	missing	rough	17.16	33.571	5.96	0.22	4	0.2	0.01	354
100.45-J	6	2103	31°12.0'	117°46.5'	900	320°	12	overcast	rough	17.19	33.592	5.91	0.29	5	0.2	0.04	353
100.50-J	6	1808	31°00.5'	118°08.0'	900	310°	4	cloudy	rough	17.30	33.618	5.67	0.33	6	0.1	0.04	354
100.55-J	6	1455	30°51.0'	118°26.5'	1445	300°	10	overcast	rough	16.82	33.558	5.77	0.29	2	0.0	0.05	347
100.65-J	6	0830	30°31.5'	119°05.5'	1800	340°	12	partly cloudy	rough	16.97	33.528	5.76	0.35	2	0.0	0.00	353
100.70-J	6	0610	30°22.0'	119°24.5'	2100	340°	12	cloudy	rough	16.77	33.479	5.75	0.34	2	0.0	0.03	352
103.29-J	4	1825	31°07.5'	116°21.0'	16	calm		overcast	slight	12.98	33.654	6.52	0.60	9	0.9	0.08	261
103.30-J	4	1915	31°06.0'	116°24.5'	35	calm		overcast	moderate	10.93	33.682	4.28	1.22	13	12.5	0.11	222
103.35-J	4	2139	30°56.0'	116°44.5'	920	240°	2	overcast	moderate	17.98	33.588	6.15	0.29	5	0.0	0.03	371

Station	Date	Time	DATA AT NET TOW STATIONS									10 METERS					
			Latitude North	Longitude West	Sounding fm	Wind Dir	Wind Force	Weather	Sea	T °C	S %	O ₂ ml/L	PO ₄ -P µg at/L	SiO ₃ -Si µg at/L	NO ₃ -N µg at/L	NO ₂ -N µg at/L	δT cl/ton
103.40-J	VI-5	0110	30°45.5'	117°05.5'	940	310°	14	overcast	moderate	17.82	33.608	6.27	0.32	6	2.3	0.05	366
103.45-J	5	0355	30°36.0'	117°24.0'	1185	320°	12	missing	missing	17.91	33.623	5.92	0.20	6	1.5	0.05	367
103.50-J	5	0640	30°26.5'	117°44.5'	1300	320°	14	clear	rough	17.15	33.542	5.87	0.30	3	2.3	0.03	356
103.55-J	5	0910	30°16.5'	118°05.0'	1360	290°	10	clear	rough	16.80	33.559	6.00	0.30	3	3.1	0.04	346
107.31-J	4	1410	30°28.0'	116°07.0'	25	calm		overcast	rough	12.38	33.678	6.09	0.56	5	0.0	0.09	248
107.32-J	4	1320	30°26.0'	116°11.0'	170	calm		overcast	moderate	15.67	33.562	5.93	0.40	7	0.0	0.05	322
107.35-J	4	1130	30°21.5'	116°22.0'	950	calm		missing	missing	16.99	33.568	5.78	0.21	4	0.2	0.02	350
107.40-J	4	0910	30°13.5'	116°39.5'	1010	320°	6	missing	missing	16.96	33.541	5.81	0.35	3	0.0	0.03	351
107.45-J	4	0630	30°03.0'	117°00.0'	1520	320°	6	missing	missing	16.64	33.503	5.85	0.31	2	0.1	0.10	347
107.50-J	4	0400	29°52.0'	117°21.0'	1380	300°	6	missing	missing	16.26	33.496	5.84	0.23	2	0.0	0.01	339
107.55-J	4	0045	29°41.5'	117°41.5'	1740	320°	10	overcast	rough	17.12	33.522	5.72	0.30	2	0.0	0.02	356
110.32-J	2	2230	29°51.0'	115°48.5'	14	280°	3	overcast	slight	12.15	33.688	5.66	0.94	8	5.6	0.43	243
110.45-J	3	0550	29°27.0'	116°39.5'	580	320°	6	missing	missing	17.18	33.559	5.74	0.21	1	0.0	0.02	355
110.50-J	3	0845	29°17.0'	116°59.5'	2000	330°	3	missing	missing	17.79	33.652	5.64	0.19	1	0.0	0.01	362
110.55-J	3	1100	29°07.0'	117°19.5'	1810	320°	6	missing	missing	17.68	33.644	5.68	0.21	2	0.0	0.02	360
113.29-J	2	1750	29°24.0'	115°13.0'	27	calm		overcast	slight	12.17	33.768	4.31	1.32	17	11.9	0.04	238
113.30-J	2	1640	29°22.0'	115°18.5'	35	090°	2	overcast	slight	13.08	33.684	6.40	0.69	8	2.9	0.16	261
113.35-J	2	1410	29°11.5'	115°38.5'	740	320°	4	overcast	moderate	16.08	33.531	5.91	0.38	5	0.1	0.03	333
113.39-J	2	1120	29°09.5'	115°59.0'	1000	300°	6	missing	missing	17.59	33.590	5.93	0.30	4	0.0	0.03	362

Station	Date	Time	DATA AT NET TOW STATIONS			10 METERS											
			Latitude	Longitude	Sounding	Wind	Weather	Sea	T	S	O ₂	PO ₄ -P	SiO ₃ -Si	NO ₃ -N	NO ₂ -N	δT	
			North	West	fm	Dir	Force	°C	%	ml/L	μg at/L	μg at/L	μg at/L	μg at/L	cl/ton		
113.45-J	VI-2	0815	28°57.5'	116°18.5'	1640	320°	6	missing	missing	17.36	33.596	5.67	0.30	2	0.2	0.03 356	
113.50-J		2	0600	28°46.0'	116°37.5'	1940	360°	6	missing	missing	17.58	33.623	5.68	0.30	2	0.2	0.01 360

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