Wilkes

PHYSICAL AND CHEMICAL DATA REPORT CalCOFI Cruises 6610 and 6612

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 6610
8-27 October 1966

Special Cruise 6611
10-13 November 1966

and

CalCOFI Cruise 6612
2-19 December 1966

SIO Reference 69-2

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL AND CHEMICAL DATA

CalCOFI Cruise 6610
8-27 October 1966

Special Cruise 6611
10-13 November 1966

and

CalCOFI Cruise 6612
2-19 December 1966

Sponsored by

Marine Research Committee

SIO Reference 69-2

Approved for distribution:

William A. Nierenberg

W. A. Nierenberg, Director

CONTENTS

INTRODUCTION

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

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

TABULATED DATA

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

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

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

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

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

STANDARD PROCEDURES

Hydrographic Casts

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

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

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

---

[2] Klein, Hans T. A new technique for processing physical oceanographic data. MS.

[3] Quotation from Department of Oceanography, University of Washington, Tech. Rep. No. 66, UW Ref. 60-18, October 1960.

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

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

In situ Salinity/Temperature/Depth Recorder

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

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

FOOTNOTES

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

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

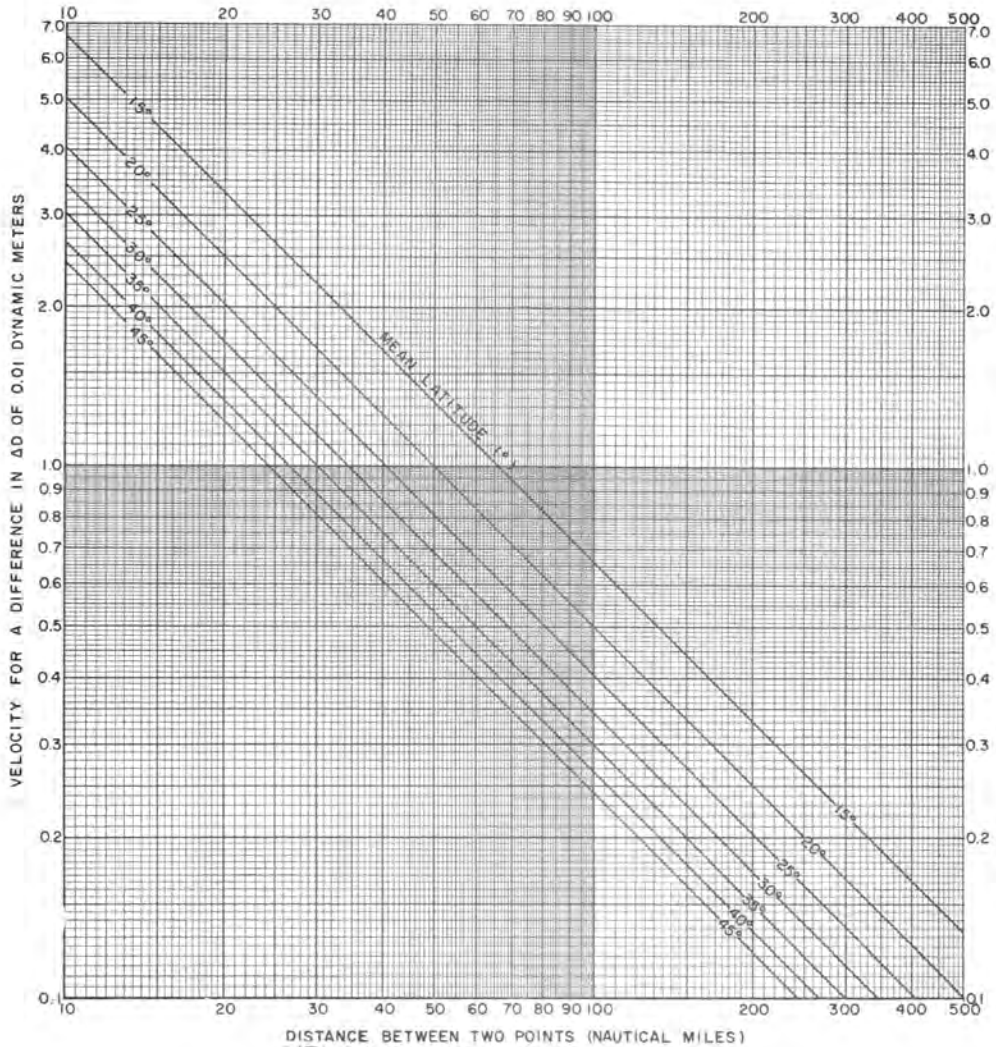
u: uncertain value

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

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

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

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



VELOCITY OF GEOSTROPHIC FLOW
(NAUTICAL MILES PER DAY)

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

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

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

FIGURES
Cruise 6612

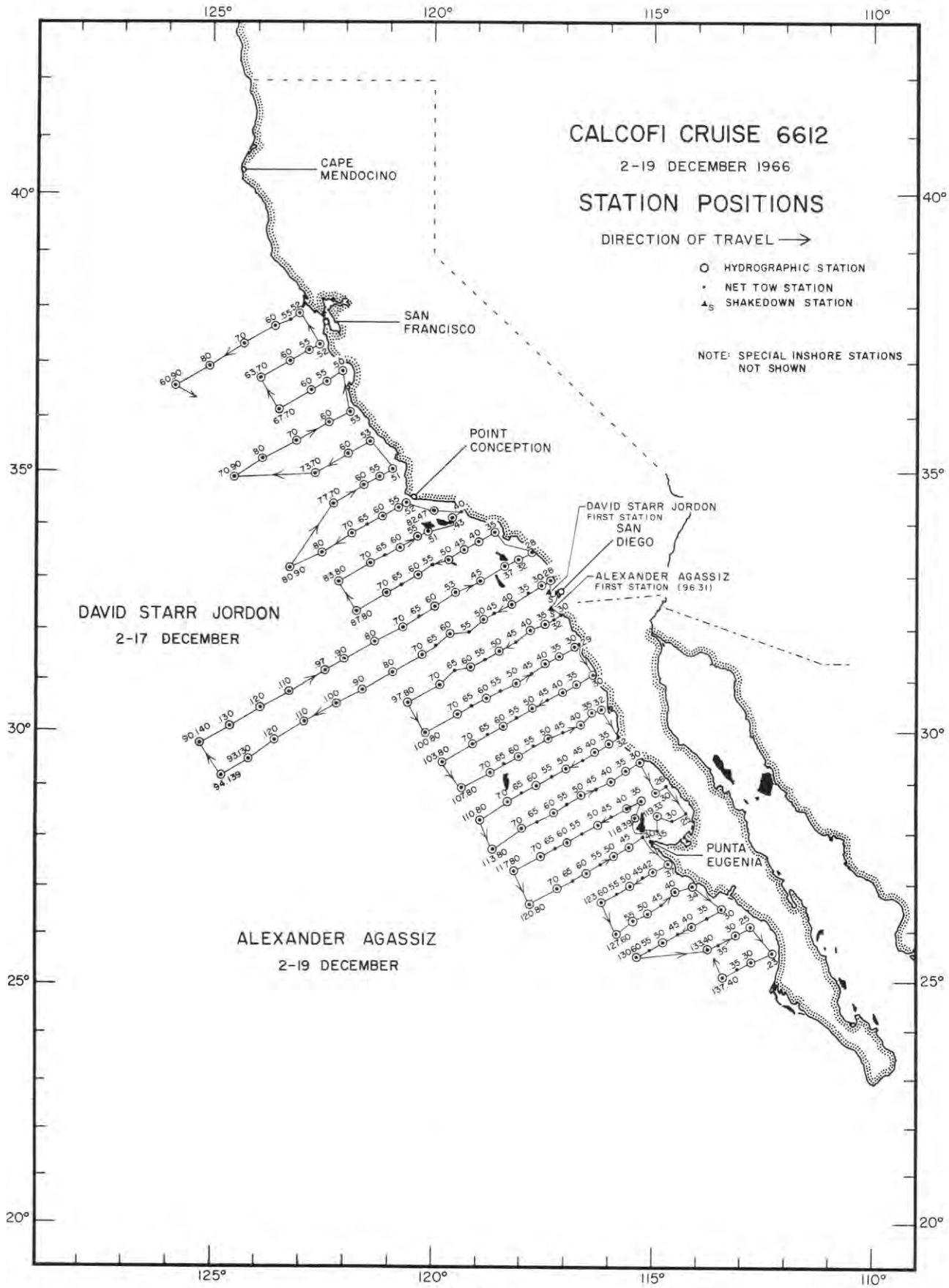

CALCOFI CRUISE 6612
2-19 DECEMBER 1966
STATION POSITIONS
DIRECTION OF TRAVEL →
O HYDROGRAPHIC STATION
• NET TOW STATION
▲S SHAKEDOWN STATION
NOTE: SPECIAL INSHORE STATIONS NOT SHOWN
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
DAVID STARR JORDON FIRST STATION
SAN DIEGO
ALEXANDER AGASSIZ FIRST STATION (96.31)
PUNTA EUGENIA
DAVID STARR JORDON
2-17 DECEMBER
ALEXANDER AGASSIZ
2-19 DECEMBER
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 1

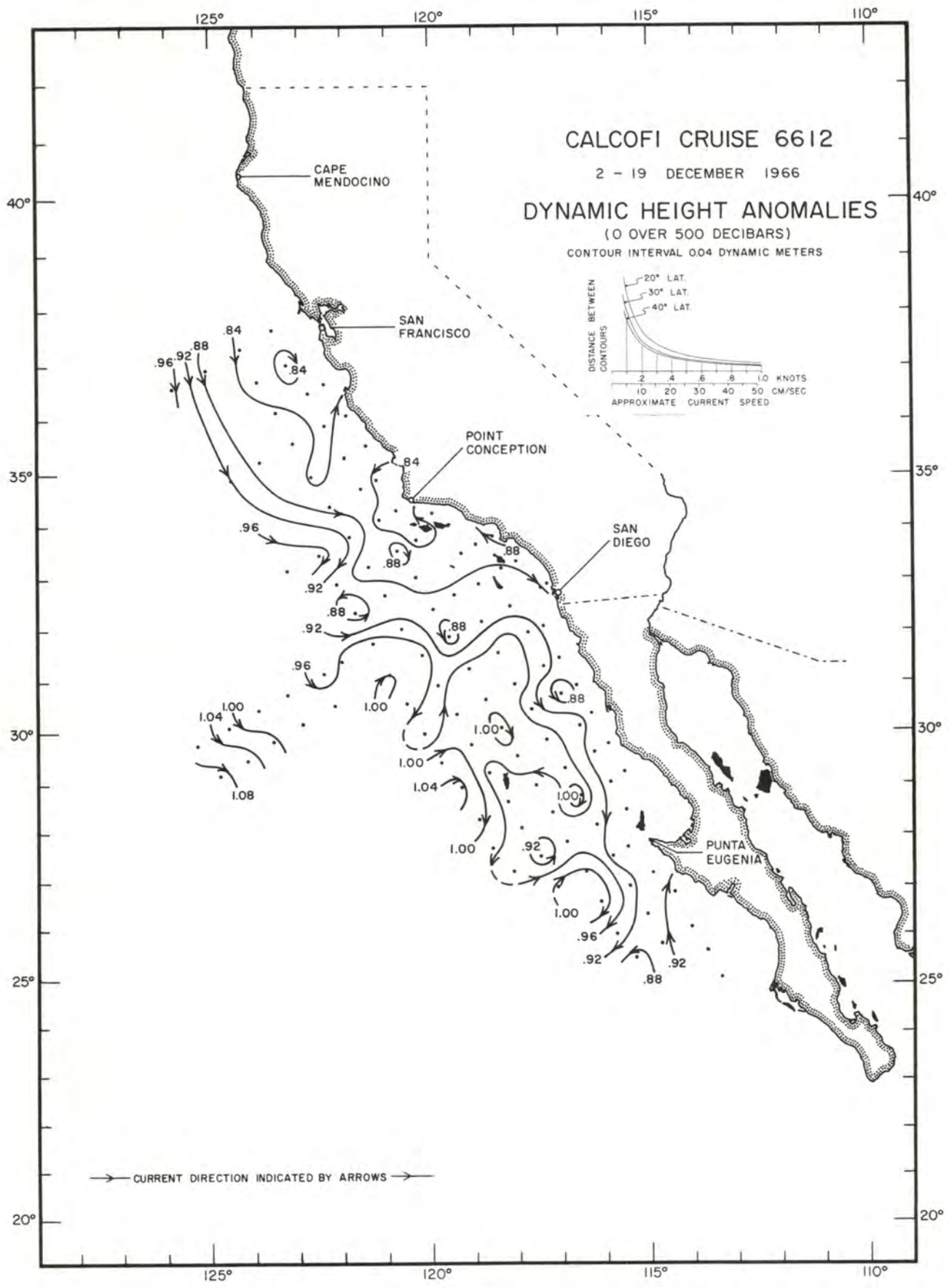

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
DYNAMIC HEIGHT ANOMALIES
(0 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.04 DYNAMIC METERS
20° LAT.
30° LAT.
40° LAT.
DISTANCE BETWEEN CONTOURS
.2 .4 .6 .8 1.0 KNOTS
10 20 30 40 50 CM/SEC
APPROXIMATE CURRENT SPEED
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
CURRENT DIRECTION INDICATED BY ARROWS

FIGURE 2

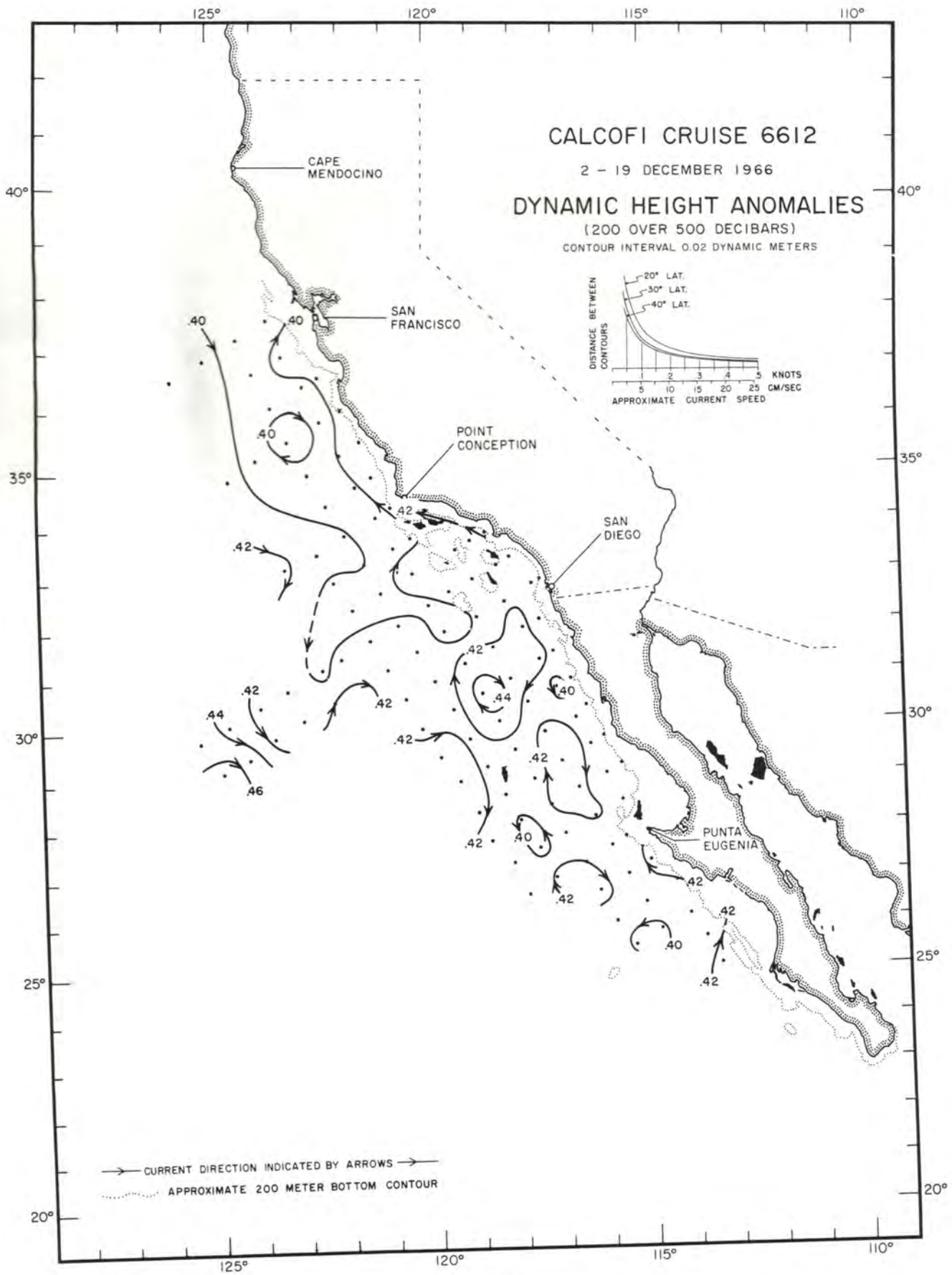

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
DYNAMIC HEIGHT ANOMALIES
(200 OVER 500 DECIBARS)
CONTOUR INTERVAL 0.02 DYNAMIC METERS
20° LAT.
30° LAT.
40° LAT.
DISTANCE BETWEEN CONTOURS
KNOTS
CM/SEC
APPROXIMATE CURRENT SPEED
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
CURRENT DIRECTION INDICATED BY ARROWS
APPROXIMATE 200 METER BOTTOM CONTOUR

FIGURE 3

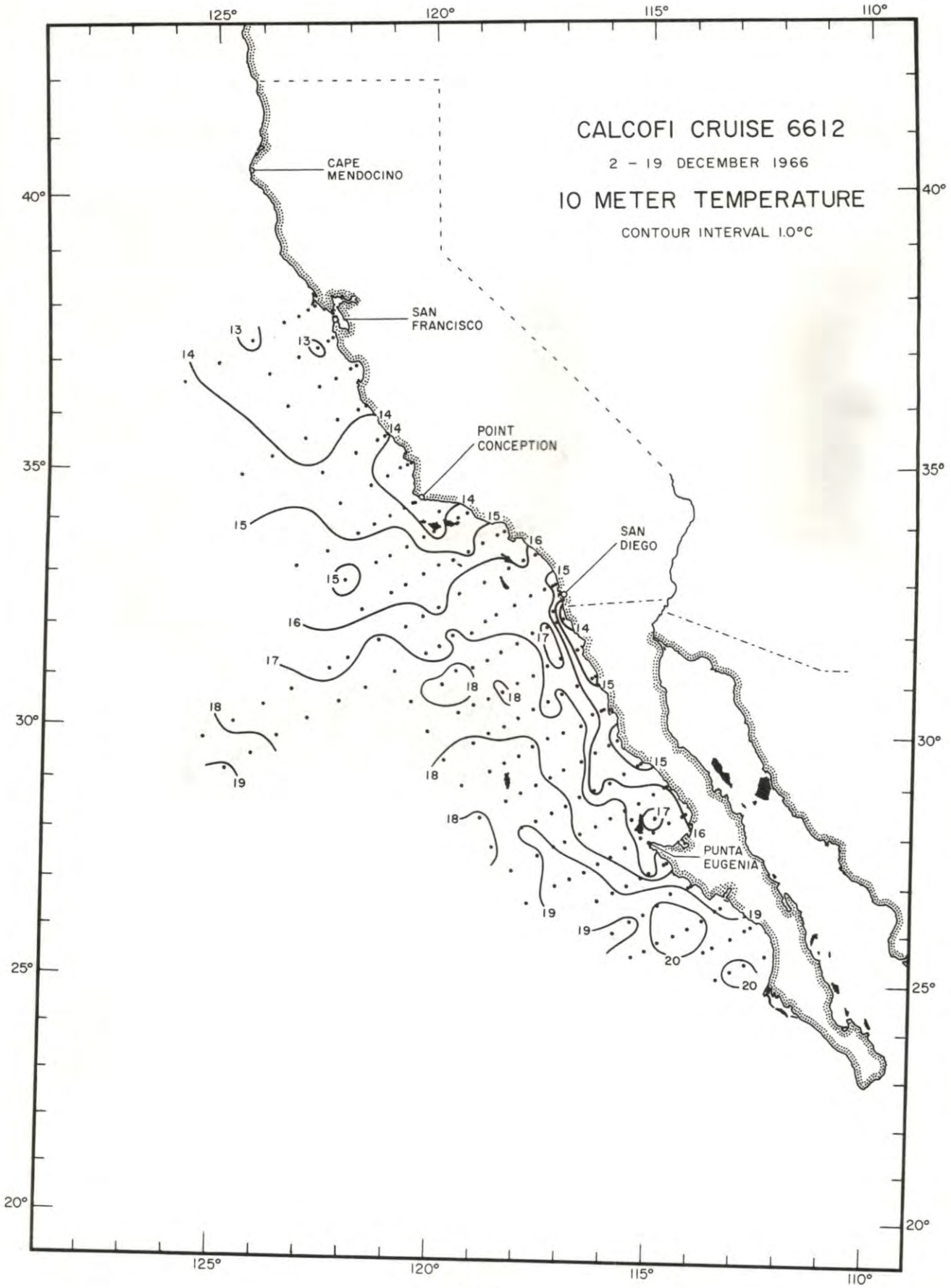

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
10 METER TEMPERATURE
CONTOUR INTERVAL 1.0°C
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 4

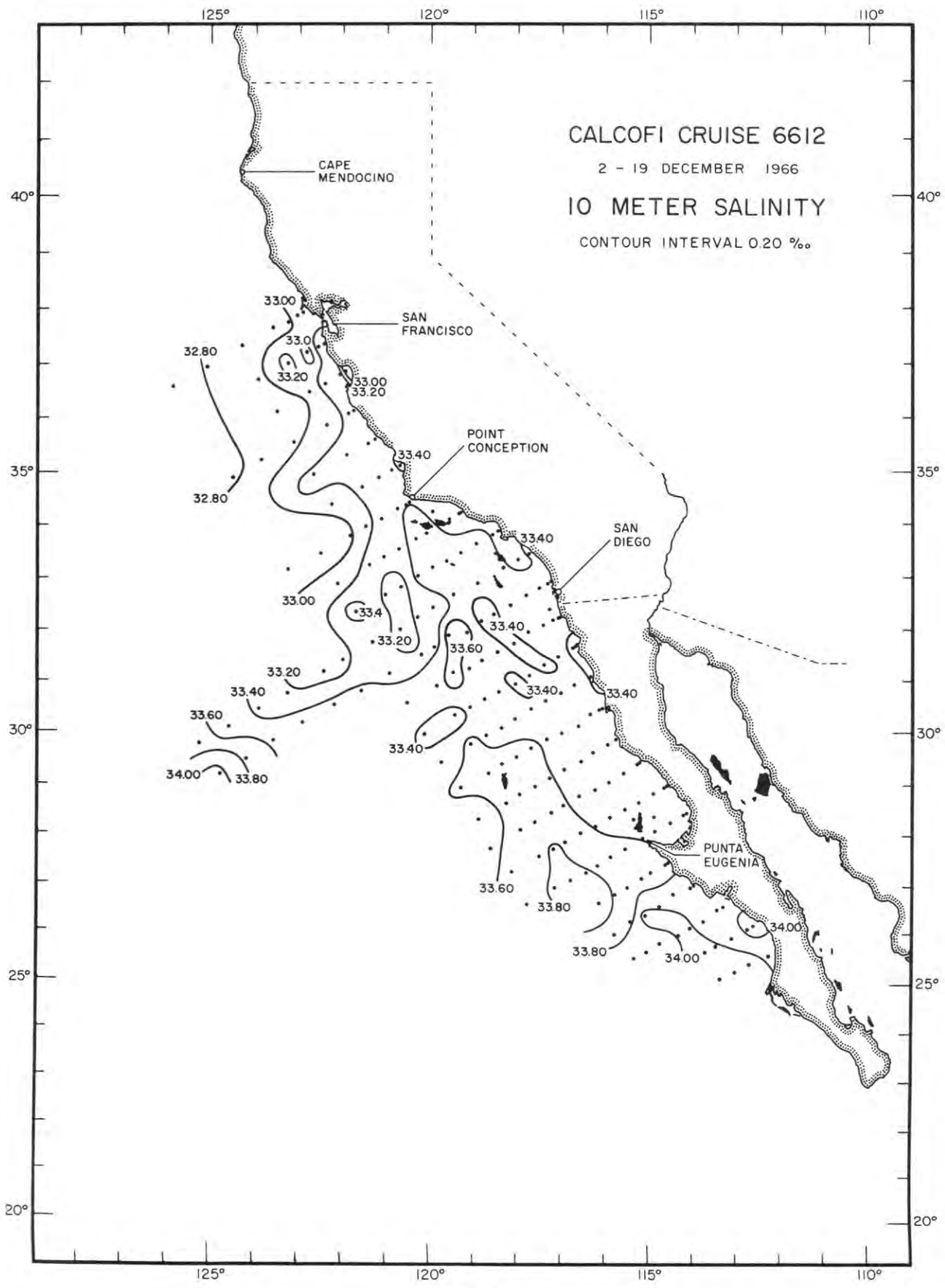

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
10 METER SALINITY
CONTOUR INTERVAL 0.20 ‰
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
33.00
33.0
32.80
33.20
33.00
33.20
33.40
32.80
33.40
33.00
33.4
33.20
33.40
33.60
33.20
33.40
33.40
33.40
33.60
33.40
34.00
33.80
33.60
33.80
33.80
34.00
34.00

FIGURE 5

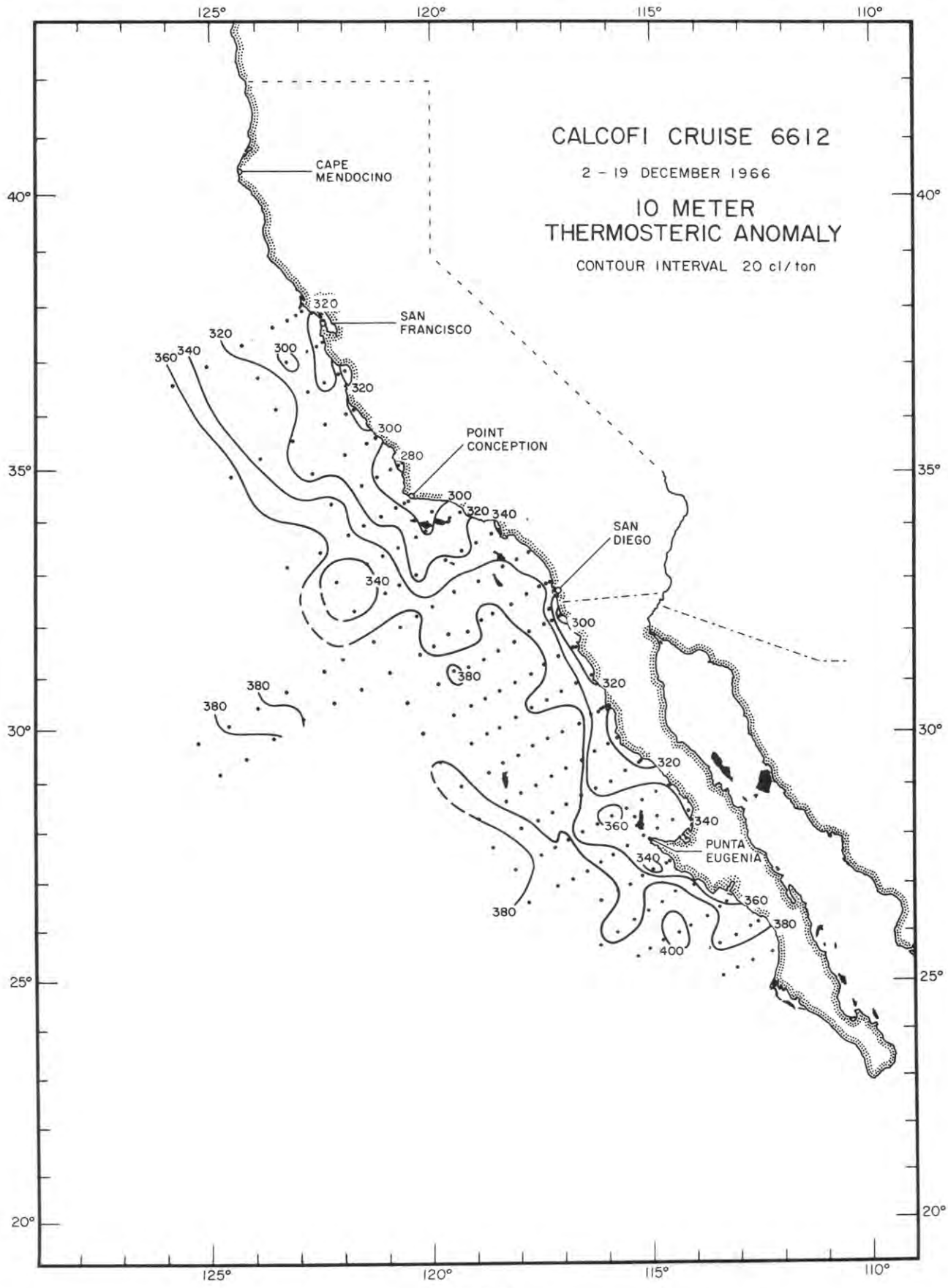

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
10 METER
THERMOSTERIC ANOMALY
CONTOUR INTERVAL 20 cl/ton
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
125°
120°
115°
110°
40°
35°
30°
25°
20°
320
300
340
360
280
380
400

FIGURE 6

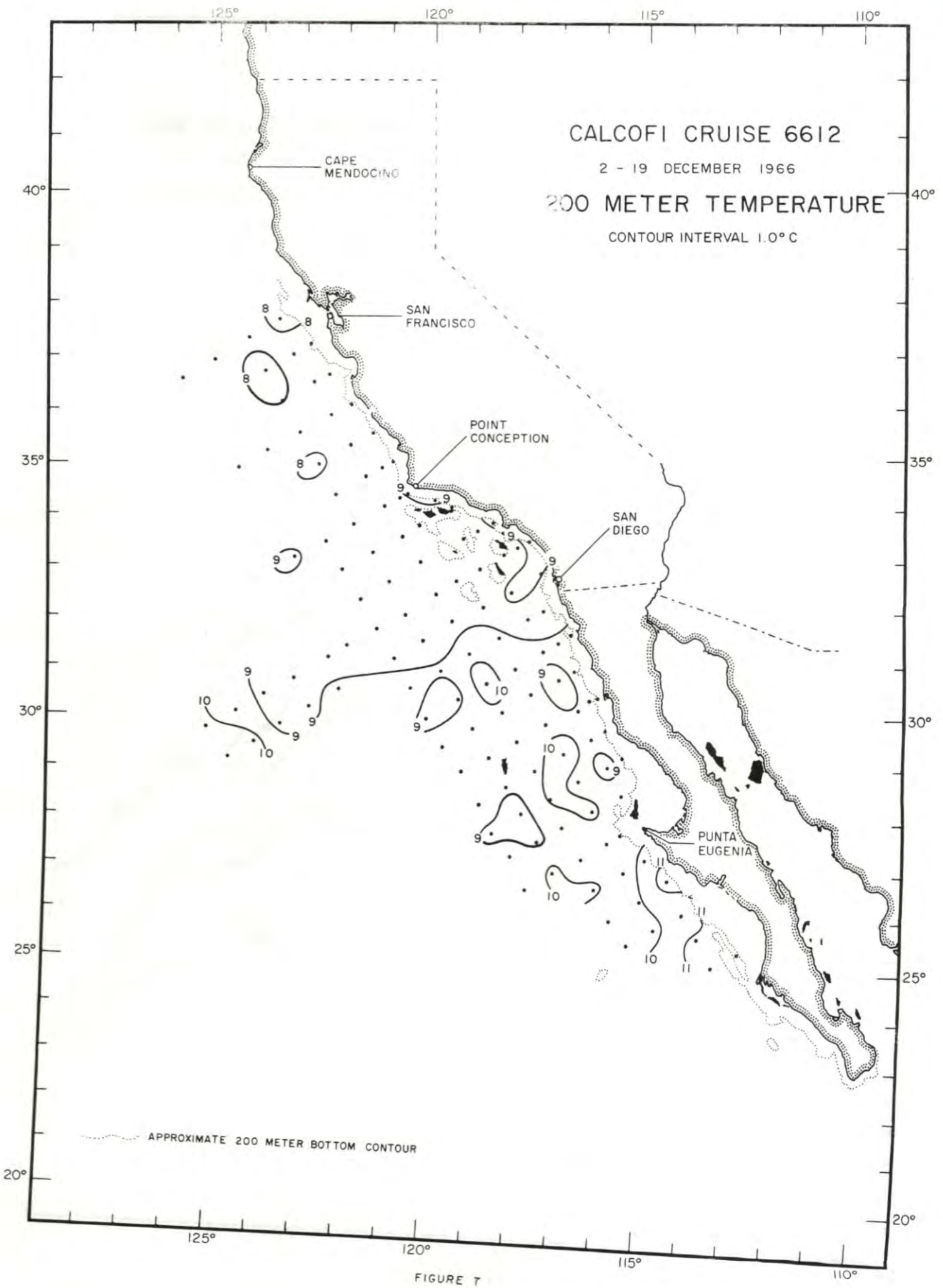

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
200 METER TEMPERATURE
CONTOUR INTERVAL 1.0° C
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
APPROXIMATE 200 METER BOTTOM CONTOUR
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 7

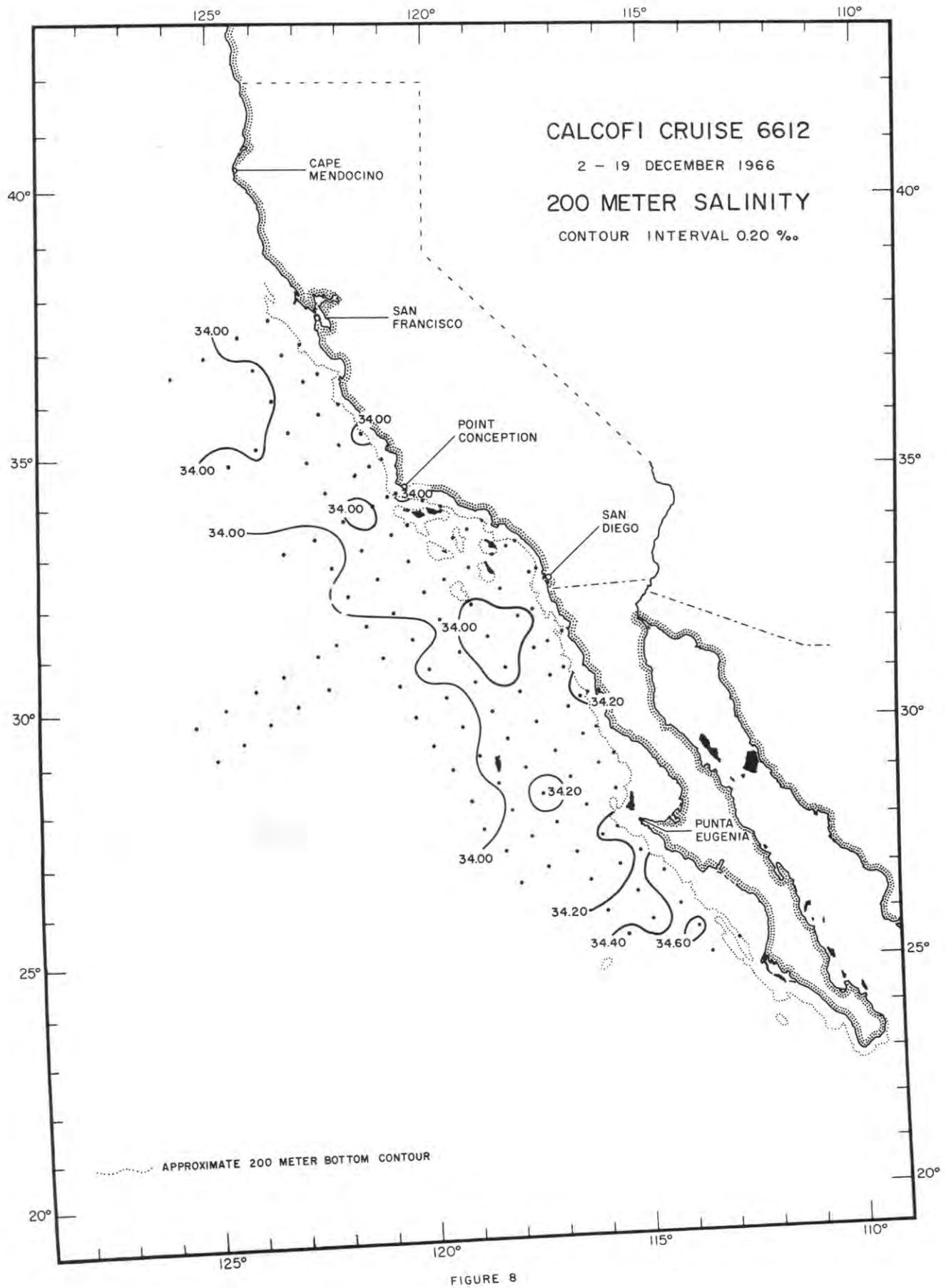

CALCOFI CRUISE 6612
2 – 19 DECEMBER 1966
200 METER SALINITY
CONTOUR INTERVAL 0.20 ‰
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
34.00
34.20
34.40
34.60
APPROXIMATE 200 METER BOTTOM CONTOUR
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 8

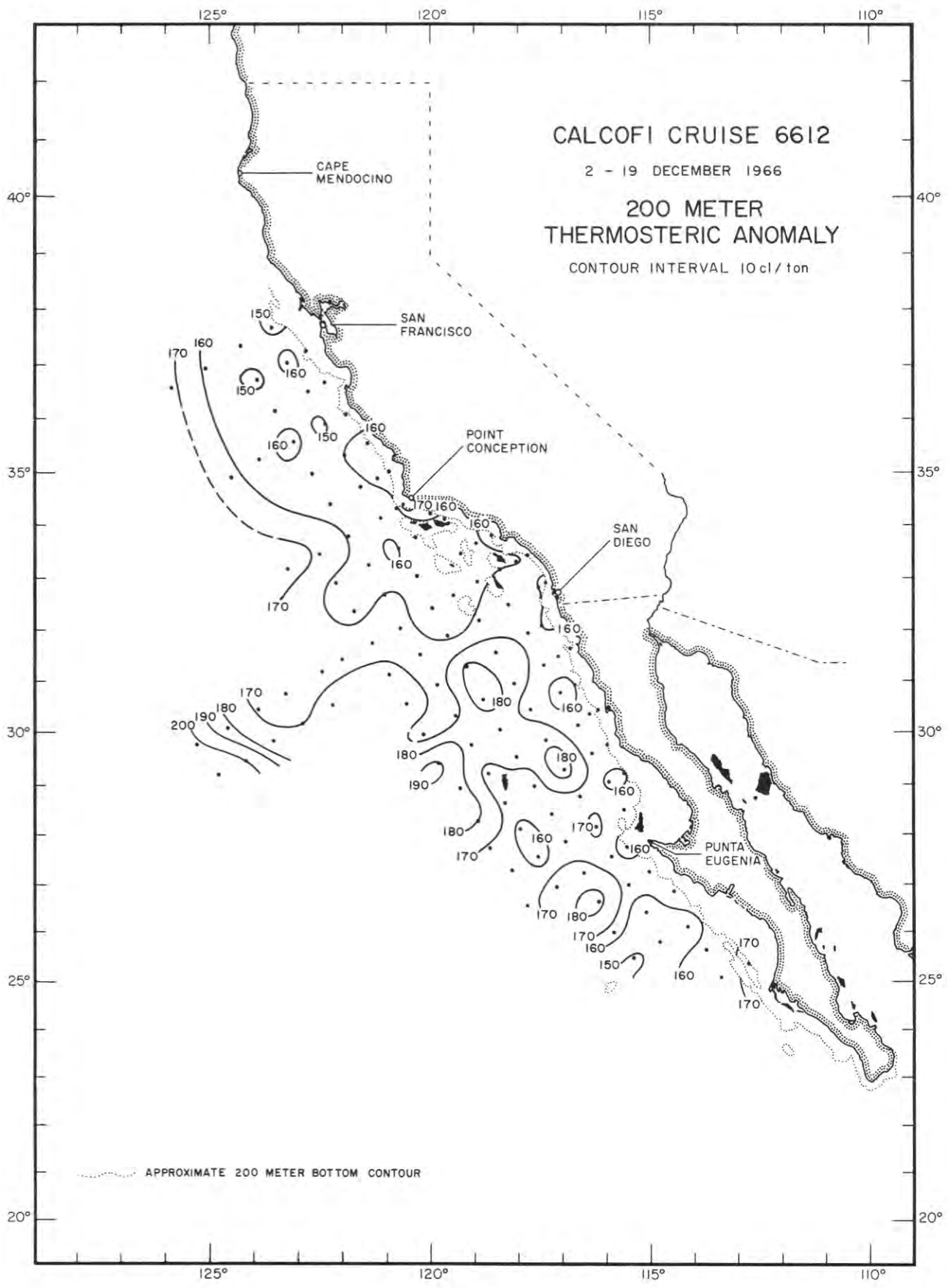

CALCOFI CRUISE 6612
2 - 19 DECEMBER 1966
200 METER
THERMOSTERIC ANOMALY
CONTOUR INTERVAL 10 cl / ton
CAPE MENDOCINO
SAN FRANCISCO
POINT CONCEPTION
SAN DIEGO
PUNTA EUGENIA
APPROXIMATE 200 METER BOTTOM CONTOUR
125°
120°
115°
110°
40°
35°
30°
25°
20°

FIGURE 9

PERSONNEL
Cruise 6612

SHIPS' CAPTAINS

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

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

RV Alexander Agassiz

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

RV David Starr Jordan

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

*Lines 90 and 93 only.

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
60.52					CALCOFI CRUISE 6612								60.52	
DAVID STARR JORDAN, DECEMBER 16 1966, 1915 GMT, 37 54N 123 01.5W, SOUNDING 42 FM, WIND 070 FORCE 2, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.														
0	13.05	33.122	6.08	-	-	-	301.4	0	13.05	33.122	6.08	24.95	301.4	0
10	13.01	33.120	6.13	-	-	-	300.8	10	13.01	33.120	6.13	24.96	300.8	.030
20	13.00	33.127	6.12	-	-	-	300.1	20	13.00	33.127	6.12	24.96	300.1	.060
30	13.04	33.198	5.91	-	-	-	295.6	30	13.04	33.198	5.91	25.01	295.6	.090
50	12.16	33.420	4.99	-	-	-	263.1	50	12.16	33.420	4.99	25.35	263.1	.146
60.60					CALCOFI CRUISE 6612								60.60	
DAVID STARR JORDAN, DECEMBER 16 1966, 2331 GMT, 37 40N 123 37W, SOUNDING 1700 FM, WIND 020 FORCE 3, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 03.														
0	13.26	32.993	6.26	-	-	-	314.9	0	13.26	32.993	6.26	24.81	314.9	0
10	13.21	32.991	6.26	-	-	-	314.1	10	13.21	32.991	6.26	24.82	314.1	.031
20	12.84K	33.03 G	-	-	-	-	304.2	20	12.84	33.030	6.25	24.92	304.2	.062
30	12.74	33.040	6.24	-	-	-	301.6	30	12.74	33.040	6.24	24.95	301.6	.093
40	12.70	33.088	6.04	-	-	-	297.4	50	10.70	33.170	5.56	25.43	256.2	.149
50	10.70K	33.17 G	-	-	-	-	256.2	75	9.75	33.490	4.09	25.84	217.1	.208
55	10.14	33.214	5.26	-	-	-	243.8	100	9.12	33.716	3.40	26.12	190.6	.260
69	9.83	33.464	4.36	-	-	-	220.3	125	8.88	33.856	2.94	26.26	176.6	.306
75	9.75K	33.49 G	-	-	-	-	217.1	150	8.56	33.967	2.74	26.40	163.7	.349
95	9.22	33.687	3.48	-	-	-	194.3	200	7.78	34.019	2.48	26.56	148.6	.429
115	8.90	33.789	3.19	-	-	-	181.9	250	7.33	34.060	2.01	26.65	139.4	.503
134	8.86	33.912	2.75	-	-	-	172.2	300	6.69	34.061	1.72	26.74	131.1	.572
154	8.47	33.975	2.74	-	-	-	161.7	400	5.87	34.113	1.06	26.89	117.1	.701
184	7.96	34.004	2.67	-	-	-	152.3	500	5.25	34.176	.58	27.02	105.2	.818
217	7.62	34.035	2.25	-	-	-	145.3	600	5.03	34.284	.35	27.13	94.7	.924
246	7.38	34.060	2.03	-	-	-	140.2							
297	6.72	34.059	1.74	-	-	-	131.6							
349	6.32	34.096	1.36	-	-	-	123.8							
433	5.60	34.124	.90	-	-	-	113.1							
518	5.18	34.193	.52	-	-	-	103.2							
603	5.03	34.288	.35	-	-	-	94.4							
60.70					CALCOFI CRUISE 6612								60.70	
DAVID STARR JORDAN, DECEMBER 17 1966, 0415 GMT, 37 19N 124 17.5W, SOUNDING 2200 FM, WIND 310 FORCE 1, WEATHER MISSING, SEA MISSING, WIRE ANGLE 06.														
0	12.91	32.962	6.39	-	-	-	310.5	0	12.91	32.962	6.39	24.85	310.5	0
10	12.89	32.963	6.37	-	-	-	310.1	10	12.89	32.963	6.37	24.86	310.1	.031
30	12.86	32.969	6.34	-	-	-	309.1	20	12.87	32.966	6.35	24.86	309.6	.062
40	12.72	33.022	6.10	-	-	-	302.6	30	12.86	32.969	6.34	24.87	309.1	.093
50	12.01K	33.26 G	-	-	-	-	272.2	50	12.01	33.260	5.44	25.26	272.2	.151
55	11.80	33.316	5.04	-	-	-	264.3	75	10.39	33.550	3.94	25.77	223.0	.214
69	10.67	33.538	3.99	-	-	-	228.5	100	9.63	33.660	3.59	25.99	202.6	.267
75	10.39K	33.55 G	-	-	-	-	223.0	125	9.10	33.880	2.99	26.25	178.2	.315
93	9.37	33.597	3.75	-	-	-	203.3	150	8.98	33.946	2.72	26.32	171.5	.360
100	9.63K	33.66 G	-	-	-	-	202.6	200	8.37	34.031	2.47	26.48	156.0	.443
113	9.34	33.754	3.27	-	-	-	191.2	250	7.53	34.066	1.98	26.63	141.7	.520
125	9.10K	33.88 G	-	-	-	-	178.2	300	6.79	34.069	1.67	26.73	131.8	.590
133	9.18	33.905	2.84	-	-	-	177.5	400	6.15	34.163	.87	26.89	116.7	.719
153	8.92	33.952	2.71	-	-	-	170.1	500	5.52	34.215	.54	27.01	105.4	.836
183	8.63	34.019	2.52	-	-	-	160.8	600	4.90	34.243	.40	27.11	96.3	.943
217	8.07	34.038	2.43	-	-	-	151.3							
247	7.58	34.066	2.00	-	-	-	142.4							
297	6.82	34.066	1.70	-	-	-	132.3							
351	6.48	34.126	1.17	-	-	-	123.5							
434	5.92	34.183	.73	-	-	-	112.4							
519	5.40	34.222	.50	-	-	-	103.5							
603	4.88	34.244	.40	-	-	-	96.1							
60.80					CALCOFI CRUISE 6612								60.80	
DAVID STARR JORDAN, DECEMBER 17 1966, 0906 GMT, 36 56.5N 125 04W, SOUNDING 2300 FM, WIND CALM, WEATHER MISSING, SEA MISSING, WIRE ANGLE 04.														
0	13.36	32.805	6.21	-	-	-	330.6	0	13.36	32.805	6.21	24.64	330.6	0
10	13.34	32.801	6.19	-	-	-	330.5	10	13.34	32.801	6.19	24.64	330.5	.033
30	13.26	32.828	6.17	-	-	-	327.0	20	13.30	32.811	6.18	24.66	329.1	.066
40	12.82	32.896	6.10	-	-	-	313.7	30	13.26	32.828	6.17	24.68	327.0	.099
50	11.46	32.976	5.93	-	-	-	283.4	50	11.46	32.976	5.93	25.14	283.4	.160
64	10.46	33.022	5.72	-	-	-	263.2	75	10.10	33.280	5.03	25.61	238.2	.226
75	10.10K	33.28 G	-	-	-	-	238.2	100	9.64	33.555	4.02	25.91	210.6	.282
79	10.32	33.330	4.75	-	-	-	238.1	125	9.23	33.702	3.54	26.09	193.3	.333
99	9.66	33.548	4.04	-	-	-	211.4	150	8.92	33.889	2.97	26.28	174.8	.380
124	9.24	33.694	3.57	-	-	-	194.1	200	8.22	33.975	2.94	26.46	158.2	.465
144	9.00	33.855	3.04	-	-	-	178.5	250	7.66	34.036	2.37	26.59	145.8	.543
174	8.60	33.974	2.89	-	-	-	163.7	300	7.18	34.072	2.00	26.68	136.6	.615
203	8.18	33.976	2.94	-	-	-	157.5	400	5.80	34.060	1.57	26.86	120.2	.749
232	7.82	34.008	2.67	-	-	-	150.0	500	5.53	34.170	.70	26.98	108.8	.869
272	7.48	34.066	2.02	-	-	-	141.1							
331	6.80	34.076	1.95	-	-	-	131.3							
400	5.80K	34.06 G	-	-	-	-	120.2							
405	5.77	34.059	1.53	-	-	-	120.0							
479	5.60	34.149	.81	-	-	-	111.2							
558	5.28	34.218	.61	-	-	-	102.4							

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	13.56	32.829	6.18	-	-	-	332.7
10	13.56	32.829	6.17	-	-	-	332.7
29	12.40	33.013	6.07	-	-	-	297.4
39	10.53	33.046	5.68	-	-	-	262.5
53	9.96	33.168	5.22	-	-	-	244.3
67	9.35	33.313	4.80	-	-	-	224.0
92	9.16	33.739	3.37	-	-	-	189.5
111	8.72	33.781	3.46	-	-	-	179.8
129	8.46	33.854	3.20	-	-	-	170.6
149	8.50	33.974	2.55	-	-	-	162.3
177	8.04	33.975	2.95	-	-	-	155.6
211	7.46	33.992	2.83	-	-	-	146.3
239	7.04	34.007	2.47	-	-	-	139.6
289	6.52	34.018	2.03	-	-	-	132.1
341	6.32	34.110	1.22	-	-	-	122.8
426	5.56	34.150	.84	-	-	-	110.7
510	5.11	34.213	.51	-	-	-	100.9
594	4.82	34.270	.33	-	-	-	93.5

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	13.56	32.829	6.18	24.62	332.7	0
10	13.56	32.829	6.17	24.62	332.7	.033
20	13.24	32.921	6.13	24.76	319.8	.066
30	12.21	33.016	6.04	25.03	293.6	.097
50	10.08	33.137	5.31	25.51	248.4	.151
75	9.25	33.461	4.29	25.89	211.6	.209
100	8.98	33.755	3.37	26.17	185.6	.259
125	8.50	33.835	3.29	26.31	172.6	.304
150	8.49	33.974	2.56	26.42	162.1	.347
200	7.64	33.985	2.92	26.55	149.3	.426
250	6.90	34.010	2.38	26.67	137.5	.499
300	6.47	34.036	1.86	26.75	130.2	.568
400	5.80	34.137	.95	26.92	114.5	.695
500	5.16	34.206	.54	27.05	101.9	.809
600	4.81	34.274	.32	27.14	93.0	.912

63.70

CALCOFI CRUISE 6612

63.70

DAVID STARR JORDAN, DECEMBER 15 1966, 0649 GMT, 36 42.5N 123 55W, SOUNDING 2100 FM, WIND 350 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 13.

67.50

CALCOFI CRUISE 6612

67.50

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

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	13.84	33.336	5.76	-	-	-	300.9
10	13.83	33.334	5.75	-	-	-	300.8
25	13.85	33.333	5.79	-	-	-	301.3
35	13.84	33.334	5.66	-	-	-	301.0
45	13.84	33.337	5.78	-	-	-	300.8
61	13.52	33.374	5.42	-	-	-	291.9
74	11.96	33.491	4.50	-	-	-	254.2
99	10.14	33.760	2.97	-	-	-	203.4

Z	T	S	OXY	SIG*T	D*T	DD
0	13.84	33.336	5.76	24.96	300.9	0
10	13.83	33.334	5.75	24.96	300.8	.030
20	13.84	33.333	5.79	24.95	301.2	.060
30	13.85	33.333	5.72	24.95	301.2	.090
50	13.77	33.346	5.75	24.98	298.7	.151
75	11.86	33.501	4.43	25.47	251.7	.220
100	10.10	33.772	2.92	26.00	201.8	.277

67.55

CALCOFI CRUISE 6612

67.55

DAVID STARR JORDAN, DECEMBER 14 1966, 1708 GMT, 36 39N 122 26W, SOUNDING 1200 FM, WIND 330 FORCE 2, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 02.

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	13.42	33.241	6.08	-	-	-	299.7
10	13.27	33.238	6.06	-	-	-	297.1
30	13.28	33.236	6.05	-	-	-	297.4
40	13.20	33.259	5.88	-	-	-	294.2
50	11.71K	33.44 G	-	-	-	-	253.6
55	11.20	33.470	4.40	-	-	-	242.5
69	10.23	33.570	3.86	-	-	-	218.9
75	10.07K	33.58 G	-	-	-	-	215.6
94	9.62	33.703	3.36	-	-	-	199.3
100	9.43K	33.75 G	-	-	-	-	192.9
114	9.16	33.817	3.13	-	-	-	183.8
134	8.75	33.899	3.00	-	-	-	171.5
154	8.80	34.025	2.36	-	-	-	162.9
184	8.52	34.062	2.10	-	-	-	156.0
218	8.17	34.077	1.99	-	-	-	149.8
247	7.82	34.086	1.94	-	-	-	144.2
297	7.28	34.124	1.48	-	-	-	134.0
350	7.15	34.190	1.06	-	-	-	127.4
434	6.46	34.228	.66	-	-	-	115.7
520	5.88	34.244	.47	-	-	-	107.4
604	5.17	34.294	.33	-	-	-	95.5

Z	T	S	OXY	SIG*T	D*T	DD
0	13.42	33.241	6.08	24.97	299.7	0
10	13.27	33.238	6.06	25.00	297.1	.030
20	13.26	33.233	6.05	24.99	297.3	.060
30	13.28	33.236	6.05	24.99	297.4	.089
50	11.71	33.440	4.92	25.45	253.6	.145
75	10.07	33.580	3.70	25.85	215.6	.204
100	9.43	33.750	3.28	26.09	192.9	.255
125	8.91	33.860	3.08	26.26	176.7	.302
150	8.78	34.001	2.49	26.39	164.3	.345
200	8.36	34.071	2.03	26.51	153.0	.426
250	7.78	34.088	1.92	26.61	143.6	.502
300	7.27	34.128	1.45	26.72	133.6	.574
400	6.77	34.219	.79	26.86	120.3	.706
500	6.03	34.237	.51	26.97	109.7	.827
600	5.21	34.291	.34	27.11	96.1	.937

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD

67.60

CALCOFI CRUISE 6612

67.60

DAVID STARR JORDAN, DECEMBER 14 1966, 2010 GMT, 36 31N 122 46.5W, SOUNDING 1650 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 10.

0	13.58	33.058	6.21	-	-	-	316.2
10	13.56	33.079	6.21	-	-	-	314.3
20	13.31K	33.09 G	-	-	-	-	308.7
30	12.38	33.125	5.88	-	-	-	288.8
39	11.84	33.259A	5.45	-	-	-	269.2
50	11.40K	33.38 G	-	-	-	-	252.6
54	10.94	33.359A	4.82	-	-	-	246.2
68	10.42	33.531	4.10	-	-	-	224.9
75	10.22K	33.540G	-	-	-	-	220.9
92	9.54	33.604	4.08	-	-	-	205.4
100	9.52K	33.71 G	-	-	-	-	197.2
112	9.42	33.851	2.98	-	-	-	185.2
132	9.19	33.939	2.75	-	-	-	175.2
152	8.84	33.973	2.82	-	-	-	167.4
181	8.54	34.029	2.60	-	-	-	158.8
216	8.24	34.089	2.10	-	-	-	150.0
245	7.92	34.096	1.94	-	-	-	144.9
294	7.59	34.139	1.48	-	-	-	137.1
349	6.92	34.156	1.22	-	-	-	126.9
433	6.06	34.188	.81	-	-	-	113.8
516	5.45	34.233	.60	-	-	-	103.2
600	5.06	34.284	.65	-	-	-	95.0

0	13.58	33.058	6.21	24.79	316.2	0
10	13.56	33.079	6.21	24.81	314.3	.032
20	13.31	33.090	6.13	24.87	308.7	.063
30	12.38	33.125	5.88	25.08	288.8	.093
50	11.40	33.380	4.99	25.46	252.6	.147
75	10.22	33.540	4.09	25.80	220.9	.207
100	9.52	33.710	3.65	26.05	197.2	.259
125	9.28	33.922	2.81	26.25	177.9	.307
150	8.88	33.971	2.81	26.35	168.0	.351
200	8.38	34.066	2.32	26.50	153.7	.423
250	7.89	34.100	1.89	26.61	144.1	.509
300	7.52	34.142	1.45	26.69	136.0	.581
400	6.37	34.174	.96	26.87	118.6	.714
500	5.55	34.224	.62	27.02	105.1	.831
600	5.06	34.284	.65	27.12	95.0	.938

67.70

CALCOFI CRUISE 6612

67.70

DAVID STARR JORDAN, DECEMBER 15 1966, 0145 GMT, 36 08N 123 29.5W, SOUNDING 2000+ FM, WIND 340 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 11.

0	13.50	32.829	6.14	-	-	-	331.5
10	13.50	32.823	6.18	-	-	-	331.9
20	13.49K	32.82 G	6.18G	-	-	-	332.0
30	13.08	32.940	6.18	-	-	-	315.4
40	12.80	33.076	6.06	-	-	-	300.1
54	11.40	33.256	5.41	-	-	-	261.7
69	10.02	33.415	4.44	-	-	-	227.0
93	9.30	33.563	3.99	-	-	-	204.7
112	9.10	33.752	3.32	-	-	-	187.7
133	8.82	33.828	3.06	-	-	-	177.8
153	8.46	33.868	3.17	-	-	-	169.6
182	8.33	33.992	2.73	-	-	-	158.5
216	7.66	33.973	3.17	-	-	-	150.4
246	7.27	33.991	2.82	-	-	-	143.8
293	6.82	34.015	2.19	-	-	-	136.1
350	6.30	34.045	1.70	-	-	-	127.4
431	5.54	34.098	1.05	-	-	-	114.4
517	5.06	34.187	.58	-	-	-	102.3
600	4.76	34.256	.36	-	-	-	93.9

0	13.50	32.829	6.14	24.63	331.5	0
10	13.50	32.823	6.18	24.63	331.9	.033
20	13.49	32.820	6.18	24.63	332.0	.066
30	13.08	32.940	6.18	24.80	315.4	.099
50	11.85	33.207	5.64	25.25	273.3	.158
75	9.73	33.453	4.28	25.81	219.5	.220
100	9.21	33.636	3.74	26.04	198.0	.272
125	8.94	33.809	3.11	26.22	180.9	.320
150	8.51	33.862	3.15	26.32	170.7	.365
200	8.00	33.990	2.95	26.50	153.8	.448
250	7.23	33.993	2.76	26.62	143.1	.524
300	6.76	34.018	2.12	26.70	135.1	.595
400	5.81	34.075	1.28	26.87	119.3	.727
500	5.14	34.171	.65	27.02	104.4	.844
600	4.76	34.256	.36	27.13	93.9	.949

70.53

CALCOFI CRUISE 6612

70.53

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

1	13.97	33.280	5.90	-	-	-	307.5
10	13.97	33.276	5.91	-	-	-	307.8
29	13.84	33.295	5.75	-	-	-	303.9
30	13.83K	33.30 G	-	-	-	-	303.3
38	13.06	33.366	5.25	-	-	-	283.7
50	11.98K	33.40 G	-	-	-	-	261.3
52	11.66	33.414	4.73	-	-	-	254.6
64	11.08	33.487	4.36	-	-	-	239.2
75	10.87K	33.54 G	-	-	-	-	231.7
87	10.20	33.652	3.75	-	-	-	212.3
104	10.02	33.720	3.48	-	-	-	204.4
122	9.87	33.757	3.17	-	-	-	199.3
125	9.81K	33.77 G	-	-	-	-	197.3
140	9.58	33.818	3.23	-	-	-	190.2
167	9.18	33.918	2.74	-	-	-	176.6
197	8.63	34.051	2.33	-	-	-	158.4
224	8.33	34.075	2.09	-	-	-	152.3
269	7.69	34.092	1.93	-	-	-	142.0
319	7.38	34.157	1.40	-	-	-	132.9
398	6.86	34.212	.85	-	-	-	122.0
479	6.08	34.221	.60	-	-	-	111.5
562	5.66	34.276	.44	-	-	-	102.4

0	13.97	33.280	5.90	24.89	307.5	0
10	13.97	33.276	5.91	24.88	307.8	.031
20	13.92	33.282	5.85	24.90	306.4	.062
30	13.83	33.300	5.70	24.93	303.3	.092
50	11.98	33.400	4.79	25.37	261.3	.149
75	10.87	33.540	4.04	25.68	231.7	.211
100	10.06	33.710	3.54	25.96	205.7	.266
125	9.81	33.770	3.18	26.04	197.3	.317
150	9.44	33.853	3.08	26.17	185.3	.365
200	8.59	34.056	2.30	26.46	157.5	.453
250	7.95	34.084	2.00	26.58	146.2	.531
300	7.47	34.131	1.61	26.69	136.1	.603
400	6.84	34.212	.84	26.84	121.6	.738
500	5.94	34.231	.55	26.97	109.1	.859

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

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC

70.60 CALCOFI CRUISE 6612 70.60

DAVID STARR JORDAN, DECEMBER 14 1966, 0229 GMT, 35 53N 122 22.5W, SOUNDING 1700 FM, WIND DIRECTION MISSING FORCE 1, WEATHER FOG, SEA MISSING, WIRE ANGLE 08.

1	13.76	33.144	6.10	-	-	-	313.4	0	13.76	33.144	6.10	24.82	313.4	0
11	13.57	33.124	6.09	-	-	-	311.2	10	13.58	33.124	6.09	24.85	311.4	.031
30	13.64	33.194	6.05	-	-	-	307.4	20	13.62	33.140	6.07	24.85	310.9	.062
41	13.32	33.293	5.64	-	-	-	294.0	30	13.64	33.194	6.05	24.89	307.4	.093
50	11.42	33.370	4.83	-	-	-	253.6	50	11.42	33.370	4.83	25.45	253.6	.150
63	10.13	33.352	4.66	-	-	-	233.4	75	9.98	33.446	4.33	25.76	224.0	.210
78	9.94	33.481	4.22	-	-	-	220.8	100	9.65	33.766	3.16	26.07	195.0	.263
98	9.67	33.749	3.20	-	-	-	196.7	125	9.25	33.889	2.99	26.23	179.8	.310
124	9.28	33.887	2.99	-	-	-	180.4	150	8.70	33.937	2.76	26.35	168.0	.354
142	8.80	33.903	2.89	-	-	-	172.0	200	8.24	34.087	2.02	26.54	150.1	.435
173	8.54	34.045	2.33	-	-	-	157.6	250	7.75	34.111	1.69	26.63	141.5	.510
202	8.22	34.088	2.00	-	-	-	149.7	300	7.10	34.109	1.51	26.73	132.7	.581
232	8.05	34.122	1.69	-	-	-	144.8	400	6.43	34.207	.76	26.89	115.8	.711
271	7.38	34.094	1.72	-	-	-	137.6	500	5.86	34.266	.42	27.01	105.5	.828
330	6.90	34.140	1.23	-	-	-	127.9							
405	6.40	34.212	.73	-	-	-	116.1							
477	5.98	34.254	.47	-	-	-	107.9							
557	5.58	34.292	.35	-	-	-	100.3							

70.70 CALCOFI CRUISE 6612 70.70

DAVID STARR JORDAN, DECEMBER 13 1966, 2138 GMT, 35 33N 123 06W, SOUNDING 2000+ FM, WIND 250 FORCE 2, WEATHER FOG, SEA VERY ROUGH, WIRE ANGLE 15.

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

70.80 CALCOFI CRUISE 6612 70.80

DAVID STARR JORDAN, DECEMBER 13 1966, 1633 GMT, 35 14N 123 52W, SOUNDING 2300 FM, WIND 280 FORCE 1, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 05.

0	14.22	32.852	6.08	-	-	-	343.9	0	14.22	32.852	6.08	24.50	343.9	0
10	14.28	32.932	6.06	-	-	-	339.2	10	14.28	32.932	6.06	24.55	339.2	.034
30	13.84	33.282	5.67	-	-	-	304.8	20	14.08	33.115	5.84	24.74	321.7	.067
40	13.81	33.316	5.80	-	-	-	301.8	30	13.84	33.282	5.67	24.91	304.8	.099
50	13.16	33.339	5.51	-	-	-	287.5	50	13.16	33.339	5.51	25.10	287.5	.158
64	10.95	33.081	5.18	-	-	-	266.9	75	9.89	33.136	5.08	25.54	245.5	.225
79	9.65	33.194	5.02	-	-	-	237.5	100	9.65	33.609	3.83	25.95	206.7	.282
99	9.66	33.595	3.88	-	-	-	207.9	125	9.32	33.830	2.94	26.17	185.3	.332
123	9.34	33.822	2.94	-	-	-	186.1	150	9.05	33.902	2.92	26.27	175.7	.377
144	9.15	33.882	2.92	-	-	-	178.8	200	8.26	33.996	2.91	26.47	157.2	.462
173	8.62	33.970	2.93	-	-	-	164.3	250	7.51	34.048	2.08	26.62	142.8	.539
201	8.25	33.997	2.90	-	-	-	156.9	300	7.04	34.109	1.54	26.73	132.0	.610
231	7.72	34.025	2.34	-	-	-	147.4	400	6.34	34.187	1.24	26.89	117.2	.740
271	7.32	34.074	1.84	-	-	-	138.3	500	5.86	34.289	.30	27.03	103.8	.856
329	6.79	34.141	1.31	-	-	-	126.4							
404	6.32	34.190	1.22	-	-	-	116.8							
477	5.98	34.275	.31	-	-	-	106.3							
556	5.56	34.299	.29	-	-	-	99.5							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	C*T	CC
70.90					CALCOFI CRUISE 6612								70.90	

DAVID STARR JORDAN, DECEMBER 13 1966, 1150 GMT, 34 53N 124 30W, SOUNDING 2420 FM, WIND 270 FORCE 3, WEATHER MISSING, SEA MISSING, WIRE ANGLE 06.

1	14.98	32.719	5.88	-	-	-	369.0	0	14.98	32.719	5.88	24.24	369.0	0
10	14.95	32.718	5.91	-	-	-	368.4	10	14.95	32.718	5.91	24.25	368.4	.037
20	14.66K	32.75 G	-	-	-	-	360.2	20	14.66	32.750	5.93	24.33	360.2	.073
30	14.48	32.770	6.00	-	-	-	355.1	30	14.48	32.770	6.00	24.39	355.1	.109
40	13.62	32.861	6.17	-	-	-	331.5	50	12.95	32.919	6.24	24.81	314.5	.176
56	12.56	32.940	6.25	-	-	-	305.7	75	10.99	32.955	6.15	25.21	276.8	.251
70	11.36	32.949	6.21	-	-	-	283.7	100	9.84	33.048	5.49	25.48	251.4	.317
95	9.92	32.985	5.68	-	-	-	257.2	125	9.33	33.439	4.46	25.87	214.4	.376
115	9.68	33.282	4.87	-	-	-	231.4	150	8.82	33.738	3.72	26.18	184.5	.426
133	9.05	33.557	4.16	-	-	-	201.4	200	8.66	34.024	2.57	26.43	160.9	.514
154	8.80	33.773	3.63	-	-	-	181.6	250	8.08	34.076	2.13	26.56	148.6	.594
184	8.84	33.999	2.62	-	-	-	165.4	300	7.41	34.102	1.71	26.68	137.4	.667
217	8.42	34.047	2.49	-	-	-	155.7	400	6.48	34.180	.87	26.86	119.6	.801
247	8.12	34.075	2.16	-	-	-	149.3	500	5.69	34.241	.40	27.01	105.4	.920
296	7.45	34.098	1.75	-	-	-	138.3	600	5.33	34.313	.24	27.11	95.9	1.027
350	6.96	34.159	1.20	-	-	-	127.2							
436	6.16	34.190	.70	-	-	-	114.8							
520	5.58	34.256	.34	-	-	-	103.0							
603	5.33	34.315	.24	-	-	-	95.7							

73.53					CALCOFI CRUISE 6612								73.53	

DAVID STARR JORDAN, DECEMBER 12 1966, 1713 GMT, 35 31.5N 121 28.5W, SOUNDING 400 FM, WIND 310 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 05.

0	14.14	33.369	5.87	-	-	-	304.4	0	14.14	33.369	5.87	24.92	304.4	0
10	14.14	33.367	5.87	-	-	-	304.5	10	14.14	33.367	5.87	24.92	304.5	.030
30	14.14	33.368	5.87	-	-	-	304.5	20	14.16	33.367	5.90	24.91	304.9	.061
40	14.04	33.370	5.72	-	-	-	302.3	30	14.14	33.368	5.87	24.92	304.5	.092
50	10.98	33.174	5.28	-	-	-	260.6	50	10.98	33.174	5.28	25.38	260.6	.148
64	10.16	33.356	4.57	-	-	-	233.6	75	10.12	33.496	4.13	25.78	222.6	.209
79	10.16	33.541	4.00	-	-	-	219.9	100	9.96	33.677	3.61	25.95	206.6	.263
99	9.97	33.671	3.63	-	-	-	207.2	125	9.62	33.813	3.19	26.11	191.2	.313
124	9.64	33.808	3.21	-	-	-	191.8	150	9.22	33.920	2.84	26.26	177.1	.360
144	9.31	33.897	2.90	-	-	-	180.1	200	8.43	33.982	3.24	26.43	160.7	.446
173	8.89	33.980	2.81	-	-	-	167.6	250	7.80	34.036	2.63	26.57	147.6	.525
202	8.40	33.982	3.27	-	-	-	160.2	300	7.30	34.084	1.83	26.68	137.2	.599
232	7.98	34.008	3.03	-	-	-	152.3	400	6.79	34.207	.80	26.84	121.4	.733
272	7.60	34.070	2.12	-	-	-	142.4	500	5.95	34.243	.43	26.98	108.3	.854
331	7.00	34.098	1.62	-	-	-	132.3							
406	6.76	34.216	.74	-	-	-	120.4							
480	6.08	34.233	.47	-	-	-	110.6							
559	5.68	34.286	.39	-	-	-	101.9							

73.60					CALCOFI CRUISE 6612								73.60	

DAVID STARR JORDAN, DECEMBER 12 1966, 2047 GMT, 35 18.5N 121 56W, SOUNDING 1300 FM, WIND 310 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 09.

1	14.40	33.309	5.84	-	-	-	314.0	0	14.40	33.309	5.84	24.82	314.0	0
11	14.39	33.306	5.99	-	-	-	314.0	10	14.39	33.306	5.98	24.82	314.0	.031
31	14.30	33.320	5.97	-	-	-	311.2	20	14.36	33.316	6.01	24.83	312.6	.063
40	14.08	33.296	5.84	-	-	-	308.5	30	14.31	33.320	5.98	24.85	311.4	.094
55	12.66	33.236	5.57	-	-	-	285.7	50	13.23	33.246	5.70	25.01	295.7	.155
69	10.96	33.358	4.69	-	-	-	246.7	75	10.63	33.390	4.50	25.61	238.8	.222
75	10.63K	33.39 G	-	-	-	-	238.8	100	9.83	33.522	3.98	25.85	216.0	.279
95	9.92	33.489	4.11	-	-	-	219.9	125	9.40	33.730	3.50	26.08	194.0	.331
113	9.64	33.620	3.67	-	-	-	205.8	150	9.21	33.906	2.98	26.25	177.9	.378
133	9.27	33.801	3.39	-	-	-	186.6	200	8.66	34.031	2.34	26.43	160.5	.465
154	9.19	33.925	2.88	-	-	-	176.2	250	7.97	34.068	2.33	26.57	147.7	.544
183	8.81	33.994	3.54U	-	-	-	165.3	300	7.44	34.162	1.26	26.72	133.3	.616
215	8.52	34.054	2.32	-	-	-	156.6	400	6.58	34.213	.79	26.88	118.3	.747
244	8.04	34.057	2.44	-	-	-	149.5	500	5.83	34.277	.55	27.03	104.3	.865
292	7.54	34.155	1.35	-	-	-	135.2	600	5.09	34.273	.34	27.11	96.2	.971
345	6.92	34.186	.96	-	-	-	124.7							
427	6.44	34.226	.74	-	-	-	115.6							
511	5.74	34.281	.52	-	-	-	103.0							
595	5.12	34.275	.35	-	-	-	96.4							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
73.70					CALCOFI CRUISE 6612								73.70	

DAVID STARR JORDAN, DECEMBER 13 1966, 0200 GMT, 34 58N 122 40W, SOUNDING 2000+ FM, WIND 320 FORCE 3, WEATHER FOG, SEA VERY ROUGH, WIRE ANGLE 32.

1	14.32	33.319	-	-	-	-	311.6	0	14.32	33.319		24.84	311.6	0
8	14.32	33.301	5.82	-	-	-	313.0	10	14.32	33.299	5.84	24.83	313.0	.031
26	14.28	33.303	5.91	-	-	-	312.0	20	14.30	33.298	5.91	24.83	312.7	.063
34	14.14	33.307	5.87	-	-	-	308.9	30	14.24	33.306	5.90	24.85	310.9	.094
46	13.32	33.265	5.71	-	-	-	296.0	50	12.73	33.248	5.57	25.11	286.2	.154
57	11.67	33.240	5.25	-	-	-	267.6	75	10.38	33.467	4.24	25.71	229.0	.218
77	10.32	33.500	4.14	-	-	-	225.5	100	9.72	33.664	3.61	25.98	203.8	.273
92	9.99	33.627	3.72	-	-	-	210.8	125	8.98	33.809	3.26	26.21	181.6	.322
109	9.40	33.701	3.51	-	-	-	196.0	150	8.55	33.936	3.25	26.38	165.8	.366
124	9.00	33.803	3.26	-	-	-	182.4	200	7.96	34.025	2.64	26.54	150.7	.446
148	8.57	33.929	3.28	-	-	-	166.6	250	7.61	34.113	1.71	26.66	139.3	.521
178	8.25	34.001	2.74	-	-	-	156.6	300	7.11	34.135	1.39	26.74	130.9	.591
200	7.96	34.025	2.64	-	-	-	150.7	400	6.34	34.189	.76	26.89	117.1	.720
240	7.72	34.106	1.80	-	-	-	141.4	500	5.65	34.252	.33	27.03	104.1	.836
281	7.24	34.124	1.53	-	-	-	133.5							
348	6.82	34.164	1.06	-	-	-	125.0							
417	6.20	34.198	.67	-	-	-	114.7							
492	5.69	34.246	.36	-	-	-	105.0							

77.51					CALCOFI CRUISE 6612								77.51	

DAVID STARR JORDAN, DECEMBER 12 1966, 0944 GMT, 35 02N 120 56.5W, SOUNDING 145 FM, WIND 340 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 01.

0	13.70	33.334	5.77	-	-	-	298.3	0	13.70	33.334	5.77	24.98	298.3	0
10	13.60	33.337	5.75	-	-	-	296.1	10	13.60	33.337	5.75	25.01	296.1	.030
30	13.46	33.383	5.78	-	-	-	290.0	20	13.53	33.359	5.82	25.04	293.1	.059
45	12.39	33.390	5.13	-	-	-	269.5	30	13.46	33.383	5.78	25.07	290.0	.088
55	11.38	33.448	4.50	-	-	-	247.2	50	11.86	33.414	4.81	25.40	258.2	.143
69	10.93	33.584	4.07	-	-	-	229.5	75	10.73	33.626	3.90	25.77	223.0	.204
85	10.43	33.682	3.65	-	-	-	213.9	100	10.14	33.741	3.46	25.97	204.8	.258
105	10.06	33.758	3.42	-	-	-	202.2	125	9.69	33.845	3.17	26.12	189.8	.308
130	9.60	33.867	3.10	-	-	-	186.8	150	9.32	33.939	2.83	26.26	177.2	.354
150	9.32	33.939	2.83	-	-	-	177.2	200	8.79	34.035	2.52	26.42	162.0	.441
185	8.98	34.003	2.64	-	-	-	167.2	250	8.33	34.109	1.95	26.55	149.7	.521
214	8.63	34.061	1.44U	-	-	-	157.7							
254	8.30	34.113	1.89	-	-	-	149.0							

77.55					CALCOFI CRUISE 6612								77.55	

DAVID STARR JORDAN, DECEMBER 12 1966, 0712 GMT, 34 54.5N 121 13W, SOUNDING 320 FM, WIND 300 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 12.

0	13.87	33.396	5.90	-	-	-	297.1	0	13.87	33.396	5.90	25.00	297.1	0
10	13.88	33.399	5.88	-	-	-	297.0	10	13.88	33.399	5.88	25.00	297.0	.030
29	13.75	33.426	5.65	-	-	-	292.5	20	13.83	33.406	5.78	25.01	295.6	.059
30	13.74K	33.43 G	-	-	-	-	292.0	30	13.74	33.430	5.55	25.05	292.0	.089
39	12.09	33.471	4.61	-	-	-	258.0	50	11.22	33.546	4.10	25.62	237.2	.142
49	11.28	33.540	4.12	-	-	-	238.7	75	10.36	33.700	3.57	25.90	211.4	.198
62	10.70	33.615	3.94	-	-	-	223.3	100	9.74	33.813	3.15	26.09	193.1	.249
77	10.32	33.713	3.51	-	-	-	209.8	125	9.46	33.894	2.95	26.20	182.7	.297
97	9.79	33.801	-	-	-	-	194.7	150	9.18	33.956	2.80	26.29	173.8	.342
121	9.50	33.883	2.98	-	-	-	184.1	200	8.72	34.029	2.57	26.42	161.5	.428
140	9.32	33.933	2.84	-	-	-	177.6	250	7.98	34.086	2.06	26.58	146.5	.507
170	8.92	33.994	2.74	-	-	-	167.0	300	7.54	34.122	1.67	26.67	137.8	.580
199	8.74	34.027	2.58	-	-	-	161.9	400	6.77	34.206	.84	26.85	121.2	.715
230	8.20	34.072	2.21	-	-	-	150.6	500	5.84	34.263	.39	27.01	105.4	.834
269	7.82	34.095	1.93	-	-	-	143.6							
327	7.32	34.147	1.43	-	-	-	132.9							
401	6.76	34.207	.83	-	-	-	121.0							
474	6.04	34.251	.46	-	-	-	108.8							
552	5.51	34.283	.35	-	-	-	100.2							

77.60					CALCOFI CRUISE 6612								77.60	

DAVID STARR JORDAN, DECEMBER 12 1966, 0413 GMT, 34 44N 121 34W, SOUNDING 500 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 09.

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

77.70 CALCOFI CRUISE 6612 77.70

DAVID STARR JORDAN, DECEMBER 11 1966, 2323 GMT, 34 24N 122 16W, SOUNDING 2000+ FM, WIND 350 FORCE 3, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 05.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	14.84	33.007	5.94	-	-	-	345.0	0	14.84	33.007	5.94	24.49	345.0	0
10	14.72	33.007	6.00	-	-	-	342.6	10	14.72	33.007	6.00	24.52	342.6	.034
20	14.72K	33.02 G	-	-	-	-	341.6	20	14.72	33.020	6.01	24.53	341.6	.069
30	14.72	33.035	5.99	-	-	-	340.5	30	14.72	33.035	5.99	24.54	340.5	.103
40	13.79	33.069	5.96	-	-	-	319.5	50	12.18	33.103	5.94	25.10	286.8	.166
50	12.18	33.103	5.94	-	-	-	286.8	75	10.61	33.141	5.36	25.42	256.9	.234
64	10.72	33.037	5.68	-	-	-	266.3	100	9.62	33.365	4.64	25.76	224.3	.295
79	10.55	33.192	5.23	-	-	-	252.1	125	9.56	33.745	3.52	26.07	195.3	.348
100	9.62	33.365	4.64	-	-	-	224.3	150	9.00	33.902	3.28	26.28	175.0	.395
125	9.56	33.745	3.52	-	-	-	195.3	200	8.25	34.008	3.02	26.48	156.1	.479
144	9.12	33.875	3.30	-	-	-	178.8	250	7.58	34.036	2.52	26.60	144.7	.556
174	8.60	33.973	3.25	-	-	-	163.8	300	6.96	34.057	1.90	26.70	134.8	.628
203	8.21	34.010	2.99	-	-	-	155.4	400	6.17	34.149	.88	26.88	117.9	.759
233	7.79	34.029	2.73	-	-	-	148.1	500	5.58	34.231	.41	27.02	104.9	.877
273	7.31	34.044	2.21	-	-	-	140.4							
331	6.60	34.078	1.58	-	-	-	128.6							
406	6.14	34.156	.83	-	-	-	117.1							
480	5.70	34.216	.48	-	-	-	107.4							
559	5.22	34.271	.29	-	-	-	97.8							

80.52 CALCOFI CRUISE 6612 80.52

DAVID STARR JORDAN, DECEMBER 10 1966, 1844 GMT, 34 24.5N 120 36.5W, SOUNDING 170 FM, WIND 320 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.

0	13.30	33.420	5.37	-	-	-	284.3	0	13.30	33.420	5.37	25.13	284.3	0
10	13.28	33.416	5.33	-	-	-	284.2	10	13.28	33.416	5.33	25.13	284.2	.028
30	12.84	33.458	4.92	-	-	-	272.8	20	13.20	33.428	5.19	25.16	281.7	.057
45	11.41	33.540	4.18	-	-	-	240.9	30	12.84	33.458	4.92	25.25	272.8	.085
50	11.31K	33.55 G	-	-	-	-	238.5	50	11.31	33.550	4.08	25.61	238.5	.136
60	11.12	33.587	3.98	-	-	-	232.5	75	10.80	33.651	3.79	25.78	222.3	.194
73	10.85	33.641	3.82	-	-	-	223.9	100	10.28	33.752	3.46	25.95	206.3	.248
87	10.50	33.710	3.62	-	-	-	213.0	125	9.98	33.808	3.26	26.05	197.2	.299
107	10.19	33.769	3.38	-	-	-	203.5	150	9.67	33.875	3.03	26.15	187.3	.348
131	9.91	33.821	3.22	-	-	-	195.2	200	9.20	33.991	2.52	26.32	171.4	.439
149	9.68	33.873	3.04	-	-	-	187.7	250	8.77	34.074	2.04	26.45	158.8	.524
190	9.30	33.963	2.67	-	-	-	175.1							
222	8.99	34.039	2.25	-	-	-	164.7							
255	8.73	34.077	2.02	-	-	-	158.0							

80.55 CALCOFI CRUISE 6612 80.55

DAVID STARR JORDAN, DECEMBER 10 1966, 2124 GMT, 34 19N 120 48W, SOUNDING 425 FM, WIND 340 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 06.

0	14.06	33.381	5.71	-	-	-	301.9	0	14.06	33.381	5.71	24.94	301.9	0
10	14.00	33.380	5.89	-	-	-	300.8	10	14.00	33.380	5.89	24.96	300.8	.030
30	13.88	33.381	5.62	-	-	-	298.4	20	13.94	33.380	5.84	24.97	299.6	.060
40	13.22	33.441	5.27	-	-	-	281.2	30	13.88	33.381	5.62	24.98	298.4	.090
50	11.32K	33.53 G	-	-	-	-	240.1	50	11.32	33.530	4.40	25.59	240.1	.144
55	10.96	33.566	3.95	-	-	-	231.3	75	10.39	33.678	3.36	25.87	213.5	.201
69	10.61	33.641	3.47	-	-	-	219.9	100	9.66	33.814	3.09	26.10	191.7	.252
94	9.76	33.789	3.15	-	-	-	195.1	125	9.27	33.907	2.93	26.24	178.8	.299
113	9.48	33.861	2.99	-	-	-	185.4	150	8.98	33.969	2.81	26.33	169.8	.343
133	9.14	33.934	2.89	-	-	-	174.8	200	8.39	34.062	2.40	26.50	154.1	.426
153	8.96	33.974	2.79	-	-	-	169.1	250	8.05	34.119	1.90	26.60	145.0	.503
183	8.56	34.037	2.53	-	-	-	158.5	300	7.74	34.180	1.39	26.69	136.1	.575
216	8.26	34.081	2.27	-	-	-	150.8	400	6.75	34.218	.93	26.86	120.1	.709
246	8.07	34.113	1.95	-	-	-	145.7	500	6.15	34.289	.48	26.99	107.3	.829
296	7.78	34.178	1.41	-	-	-	136.8	600	5.32	34.290	.43	27.10	97.5	.938
349	7.20	34.194	1.18	-	-	-	127.8							
432	6.52	34.237	.77	-	-	-	115.8							
516	6.04	34.295	.44	-	-	-	105.5							
599	5.33	34.290	.43	-	-	-	97.6							

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DC

80.60 CALCOFI CRUISE 6612 80.60

DAVID STARR JORDAN, DECEMBER 11 1966, 0016 GMT, 34 09N 121 09W, SOUNDING 1200 FM, WIND 320 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 08.

2	14.54	33.379	5.92	-	-	-	311.7	0	14.54	33.379	5.92	24.84	311.7	C
11	14.44	33.360	5.89	-	-	-	311.0	10	14.45	33.362	5.89	24.85	311.1	.031
30	14.31K	33.33 G	-	-	-	-	310.6	20	14.36	33.350	5.87	24.86	310.1	.062
31	14.31	33.326	5.85	-	-	-	310.9	30	14.31	33.330	5.86	24.85	310.6	.093
41	12.30	33.150	5.66	-	-	-	285.5	50	11.08	33.067	5.57	25.28	270.3	.152
56	10.56	33.069	5.52	-	-	-	261.3	75	9.84	33.530	4.65	25.85	215.6	.213
69	10.14	33.289	4.81	-	-	-	238.2	100	9.58	33.642	3.94	25.98	203.2	.265
75	9.84K	33.53 G	-	-	-	-	215.6	125	9.04	33.810	3.22	26.20	182.5	.314
93	9.76	33.592	4.26	-	-	-	209.7	150	8.78	33.898	3.08	26.31	172.0	.359
114	9.20	33.749	3.37	-	-	-	189.4	200	8.12	34.000	2.76	26.49	154.9	.442
132	8.97	33.842	3.18	-	-	-	179.0	250	7.62	34.072	2.07	26.62	142.6	.519
151	8.77	33.901	3.07	-	-	-	171.7	300	7.49	34.163	1.33	26.71	134.0	.590
180	8.34	33.989	2.82	-	-	-	158.8	400	6.69	34.263	.52	26.90	116.0	.720
214	7.98	34.011	2.68	-	-	-	152.1	500	6.04	34.306	.30	27.02	104.7	.837
243	7.65	34.058	2.19	-	-	-	144.0	600	5.42	34.341	.21	27.13	94.8	.944
292	7.54	34.151	1.44	-	-	-	135.5							
344	7.16	34.218	.85	-	-	-	125.4							
428	6.46	34.278	.43	-	-	-	111.9							
512	5.97	34.310	.28	-	-	-	103.5							
594	5.46	34.339	.21	-	-	-	95.4							

80.70 CALCOFI CRUISE 6612 80.70

DAVID STARR JORDAN, DECEMBER 11 1966, 0529 GMT, 33 48.5N 121 51W, SOUNDING 2054 FM, WIND 330 FORCE 4, WEATHER FOG, SEA MISSING, WIRE ANGLE 06.

0	14.66	33.002	5.98	-	-	-	341.7	0	14.66	33.002	5.98	24.53	341.7	C
10	14.66	32.999	5.99	-	-	-	341.9	10	14.66	32.999	5.99	24.52	341.9	.034
30	14.65	33.000	5.99	-	-	-	341.7	20	14.66	32.999	5.99	24.53	341.9	.068
50	14.48K	33.00 G	-	-	-	-	338.2	30	14.65	33.000	5.99	24.53	341.7	.103
60	13.00	32.959	6.07	-	-	-	312.5	50	14.48	33.000	6.08	24.56	338.2	.171
69	12.44	33.112	5.95	-	-	-	290.8	75	12.33	33.120	5.88	25.09	288.2	.250
75	12.33K	33.12 G	-	-	-	-	288.2	100	9.79	33.104	5.37	25.53	246.4	.317
84	10.27	32.983	5.75	-	-	-	263.0	125	9.95	33.420	4.22	25.75	225.5	.376
98	9.82	33.082	5.43	-	-	-	248.4	150	9.07	33.777	3.55	26.17	185.4	.428
113	9.77	33.265	4.91	-	-	-	234.1	200	8.41	34.001	3.10	26.45	159.0	.516
125	9.95K	33.42 G	-	-	-	-	225.5	250	7.74	34.036	2.53	26.58	146.8	.594
138	9.46	33.664	3.58	-	-	-	199.7	300	7.12	34.077	1.81	26.70	135.4	.667
158	8.86	33.821	3.52	-	-	-	178.9	400	6.34	34.171	.83	26.88	118.5	.799
187	8.52	33.969	3.34	-	-	-	162.9	500	5.68	34.229	.45	27.01	106.2	.917
216	8.27	34.022	2.79	-	-	-	155.4	600	5.22	34.304	.25	27.12	95.3	1.025
246	7.80	34.034	2.58	-	-	-	147.8							
296	7.15	34.073	1.86	-	-	-	136.1							
350	6.75	34.128	1.21	-	-	-	126.8							
434	6.08	34.196	.66	-	-	-	113.4							
518	5.58	34.240	.40	-	-	-	104.2							
602	5.21	34.306	.25	-	-	-	95.0							

80.80 CALCOFI CRUISE 6612 80.80

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

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

80.90 CALCOFI CRUISE 6612 80.90

DAVID STARR JORDAN, DECEMBER 11 1966, 1441 GMT, 33 05N 123 13W, SOUNDING 2250 FM, WIND 040 FORCE 2, WEATHER FOG, SEA MODERATE, WIRE ANGLE 03.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
1	15.64	32.878	5.83	-	-	-	371.1	0	15.64	32.878	5.83	24.22	371.1	0
11	15.64	32.873	5.84	-	-	-	371.5	10	15.64	32.873	5.84	24.21	371.5	.037
20	15.64K	32.88 G	-	-	-	-	370.9	20	15.64	32.880	5.78	24.22	370.9	.074
31	15.65	32.885	5.71	-	-	-	370.8	30	15.66	32.885	5.72	24.22	370.9	.111
50	14.82K	33.23 G	-	-	-	-	328.3	50	14.82	33.230	5.76	24.67	328.3	.182
62	14.78	33.257	5.82	-	-	-	325.5	75	13.30	33.120	5.83	24.90	306.3	.261
70	13.71	33.147	5.83	-	-	-	312.2	100	11.08	32.996	5.72	25.22	275.4	.335
75	13.30K	33.12 G	-	-	-	-	306.3	125	10.50	33.307	5.01	25.57	242.7	.400
85	11.92	33.028	5.80	-	-	-	287.6	150	9.76	33.612	4.02	25.93	208.3	.457
101	11.06	32.998	5.71	-	-	-	274.9	200	9.02	33.920	3.03	26.29	174.1	.554
116	10.86	33.185	5.30	-	-	-	257.7	250	8.34	34.034	2.55	26.49	155.5	.639
139	9.92	33.489	4.50	-	-	-	219.9	300	7.86	34.118	1.74	26.62	142.4	.716
159	9.68	33.698	3.67	-	-	-	200.6	400	6.26	34.099	1.37	26.83	122.9	.853
188	9.14	33.868	3.26	-	-	-	179.7	500	5.56	34.174	.66	26.98	108.9	.975
218	8.86	33.978	2.72	-	-	-	167.3	600	5.04	34.273	.33	27.12	95.7	1.084
248	8.36	34.029	2.59	-	-	-	156.1							
296	7.94	34.121	1.73	-	-	-	143.3							
350	6.80	34.055	1.96	-	-	-	132.9							
434	6.04	34.148	.88	-	-	-	116.5							
516	5.46	34.185A	.61	-	-	-	106.9							
601	5.04	34.274A	.33	-	-	-	95.6							

82.47 CALCOFI CRUISE 6612 82.47

DAVID STARR JORDAN, DECEMBER 10 1966, 1402 GMT, 34 15N 119 59W, SOUNDING 310 FM, WIND MISSING, WEATHER MISSING, SEA SLIGHT, WIRE ANGLE 00.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
1	13.84	33.399	5.76	-	-	-	296.3	0	13.84	33.399	5.76	25.00	296.3	0
12	13.78	33.392	5.70	-	-	-	295.6	10	13.79	33.393	5.71	25.01	295.8	.030
30	13.66	33.394	5.59	-	-	-	293.1	20	13.73	33.392	5.65	25.02	294.6	.059
46	11.94	33.512	4.39	-	-	-	252.3	30	13.66	33.394	5.59	25.04	293.1	.089
56	11.32	33.566	4.07	-	-	-	237.5	50	11.66	33.533	4.24	25.53	245.9	.143
70	10.64	33.678	3.59	-	-	-	217.6	75	10.50	33.703	3.52	25.88	213.4	.200
85	10.28	33.745	3.43	-	-	-	206.8	100	9.96	33.821	3.17	26.06	196.0	.252
100	9.96	33.821	3.17	-	-	-	196.0	125	9.52	33.919	2.94	26.21	181.7	.300
125	9.52	33.919	2.94	-	-	-	181.7	150	9.28	33.982	2.72	26.30	173.4	.345
144	9.32	33.971	2.74	-	-	-	174.8	200	9.08	34.028	2.50	26.37	166.8	.432
175	9.18	34.012	2.67	-	-	-	169.6	250	8.53	34.134	1.57	26.53	150.8	.513
203	9.06	34.031	2.47	-	-	-	166.4	300	8.12	34.192	.96	26.64	140.6	.589
233	8.68	34.099	1.90	-	-	-	155.6	400	7.19	34.228	.49	26.81	125.2	.727
272	8.36	34.170	1.20	-	-	-	145.7	500	6.56	34.246	.20	26.91	115.6	.854
330	7.86	34.203	.82	-	-	-	136.1							
385	7.32	34.221	.56	-	-	-	127.4							
444	6.87	34.242	.32	-	-	-	119.9							
504	6.54	34.246	.19	-	-	-	115.3							

83.43 CALCOFI CRUISE 6612 83.43

DAVID STARR JORDAN, DECEMBER 10 1966, 0912 GMT, 34 08N 119 34W, SOUNDING 135 FM, WIND 280 FORCE 3, WEATHER MISSING, SEA MISSING, WIRE ANGLE 02.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	14.34	33.277	5.66	-	-	-	315.1	0	14.34	33.277	5.66	24.81	315.1	0
10	14.23	33.276	5.55	-	-	-	313.0	10	14.23	33.276	5.55	24.83	313.0	.031
30	14.10	33.312	5.53	-	-	-	307.8	20	14.16	33.295	5.54	24.86	310.2	.063
45	13.60	33.297	5.51	-	-	-	299.1	30	14.10	33.312	5.53	24.88	307.8	.094
50	12.61K	33.30 G	-	-	-	-	280.1	50	12.61	33.300	5.37	25.17	280.1	.153
56	12.18	33.325	5.15	-	-	-	270.4	75	11.09	33.479	4.50	25.60	240.0	.218
69	11.40	33.433	4.69	-	-	-	248.7	100	9.90	33.758	3.56	26.02	199.6	.273
85	10.62	33.566	4.17	-	-	-	225.6	125	9.03	34.015	2.80	26.36	167.2	.320
104	9.72	33.811	3.40	-	-	-	192.9	150	8.84	34.067	2.33	26.43	160.4	.361
129	8.95	34.041	2.71	-	-	-	164.0	200	8.56	34.118	2.01	26.52	152.4	.441
150	8.84	34.067	2.33	-	-	-	160.4							
179	8.68	34.087	2.34	-	-	-	156.5							
203	8.54	34.123	1.94	-	-	-	151.8							

83.51 CALCOFI CRUISE 6612 83.51

DAVID STARR JORDAN, DECEMBER 10 1966, 0510 GMT, 33 52N 120 07.5W, SOUNDING 60 FM, WIND 070 FORCE 1, WEATHER MISSING, SEA MISSING, WIRE ANGLE 01.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	13.98	33.441	5.63	-	-	-	295.9	0	13.98	33.441	5.63	25.01	295.9	0
10	13.90	33.439	5.60	-	-	-	294.5	10	13.90	33.439	5.60	25.02	294.5	.030
20	13.78K	33.44 G	-	-	-	-	292.1	20	13.78	33.440	5.52	25.05	292.1	.059
25	13.54	33.443	5.47	-	-	-	287.2	30	13.37	33.445	5.41	25.14	283.8	.088
35	13.26	33.448	5.34	-	-	-	281.4	50	12.35	33.530	4.86	25.40	258.4	.142
45	13.20	33.465	5.23	-	-	-	279.0	75	10.68	33.626	3.90	25.78	222.1	.203
50	12.35K	33.53 G	-	-	-	-	258.4	100	10.56	33.680	3.72	25.85	216.1	.258
60	11.20	33.606	4.09	-	-	-	232.4							
74	10.70	33.624	3.91	-	-	-	222.6							
99	10.56	33.677	3.72	-	-	-	216.4							

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

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC
83.55					CALCOFI CRUISE 6612								83.55	
DAVID STARR JORDAN, DECEMBER 10 1966, 0301 GMT, 33 45N 120 21W, SOUNDING 500 FM, WIND 330 FORCE 3, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 13.														
0	14.50	33.481	5.73	-	-	-	303.4	0	14.50	33.481	5.73	24.93	303.4	0
12	14.46	33.476	5.72	-	-	-	302.9	10	14.47	33.476	5.72	24.93	303.1	.030
27	14.40	33.478	5.66	-	-	-	301.6	20	14.43	33.477	5.69	24.94	302.3	.061
39	14.34	33.477	5.63	-	-	-	300.5	30	14.39	33.474	5.65	24.95	301.6	.091
53	11.42	33.592	4.12	-	-	-	237.3	50	12.08	33.567	4.46	25.48	250.7	.146
67	10.85	33.595	3.92	-	-	-	227.3	75	10.53	33.638	3.72	25.82	218.7	.205
91	9.98	33.744	3.35	-	-	-	202.0	100	9.79	33.782	3.26	26.06	196.2	.258
111	9.62	33.822	3.17	-	-	-	190.5	125	9.39	33.877	3.01	26.20	182.8	.306
130	9.32	33.894	2.96	-	-	-	180.5	150	9.18	33.926	2.94	26.27	176.0	.351
150	9.18	33.926	2.94	-	-	-	176.0	200	8.44	34.083	2.10	26.51	153.3	.435
178	8.65	34.035	2.38	-	-	-	159.9	250	8.04	34.150	1.63	26.62	142.6	.511
211	8.36	34.099	1.99	-	-	-	150.9	300	7.69	34.194	1.28	26.71	134.4	.583
239	8.13	34.138	1.73	-	-	-	144.7	400	6.75	34.235	.74	26.87	118.9	.715
288	7.76	34.185	1.34	-	-	-	136.0	500	5.97	34.281	.42	27.01	105.7	.833
336	7.46	34.215	1.12	-	-	-	129.7	600	5.67	34.327	.40	27.08	98.8	.942
422	6.50	34.241	.62	-	-	-	115.2							
502	5.96	34.282	.42	-	-	-	105.5							
586	5.69	34.321	.40	-	-	-	99.4							
83.60					CALCOFI CRUISE 6612								83.60	
DAVID STARR JORDAN, DECEMBER 9 1966, 2340 GMT, 33 33N 120 45W, SOUNDING 950 FM, WIND 330 FORCE 3, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 18.														
1	15.38	33.359	5.87	-	-	-	330.4	0	15.38	33.359	5.87	24.65	330.4	0
10	15.34	33.356	5.87	-	-	-	329.8	10	15.34	33.356	5.87	24.65	329.8	.033
20	15.23K	33.35 G	-	-	-	-	328.0	20	15.23	33.350	5.87	24.67	328.0	.066
28	15.18	33.348	5.86	-	-	-	327.1	30	15.18	33.350	5.86	24.68	326.9	.099
30	15.18K	33.35 G	-	-	-	-	326.9	50	15.17	33.370	5.80	24.70	325.3	.164
50	15.17K	33.37 G	-	-	-	-	325.3	75	11.58	33.270	5.17	25.35	263.8	.238
58	14.07	33.257	5.77	-	-	-	311.2	100	10.51	33.511	4.24	25.72	227.8	.300
66	12.20	33.170	5.53	-	-	-	282.2	125	9.57	33.748	3.62	26.07	195.2	.354
75	11.58K	33.27 G	-	-	-	-	263.8	150	9.18	33.874	3.45	26.23	179.8	.401
83	11.14	33.355	4.83	-	-	-	249.9	200	8.57	34.026	2.62	26.44	159.5	.488
98	10.61	33.488	4.32	-	-	-	231.2	250	8.02	34.124	1.94	26.60	144.2	.565
111	9.96	33.636	3.85	-	-	-	209.6	300	7.58	34.170	1.60	26.71	134.6	.637
135	9.40	33.806	3.55	-	-	-	188.3	400	6.70	34.258	.77	26.90	116.4	.768
153	9.14	33.885	3.43	-	-	-	178.4	500	5.95	34.276	.26	27.01	105.8	.886
180	8.74	33.978	2.98	-	-	-	165.5							
208	8.51	34.043	2.48	-	-	-	157.3							
235	8.17	34.106	2.02	-	-	-	147.7							
282	7.73	34.149	1.82	-	-	-	138.3							
333	7.30	34.208	1.17	-	-	-	128.1							
412	6.59	34.264	.73	-	-	-	114.6							
493	5.99	34.273	.27	-	-	-	106.6							
575	5.66	34.340	.55	-	-	-	97.6							
83.70					CALCOFI CRUISE 6612								83.70	
DAVID STARR JORDAN, DECEMBER 9 1966, 1835 GMT, 33 14.5N 121 26W, SOUNDING 2000 FM, WIND 340 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 06.														
0	15.56	33.284	5.71	-	-	-	339.7	0	15.56	33.284	5.71	24.55	339.7	0
10	15.54	33.290	5.81	-	-	-	338.9	10	15.54	33.290	5.81	24.56	338.9	.034
20	15.56K	33.29 G	-	-	-	-	339.3	20	15.56	33.290	5.82	24.55	339.3	.068
30	15.56	33.290	5.77	-	-	-	339.3	30	15.56	33.290	5.77	24.55	339.3	.102
50	13.40K	33.28 G	-	-	-	-	296.5	50	13.40	33.280	5.60	25.00	296.5	.166
60	11.78	33.305	5.48	-	-	-	264.7	75	11.02	33.416	4.77	25.56	243.3	.234
69	11.33	33.374	4.98	-	-	-	251.8	100	9.96	33.717	3.95	25.98	203.7	.290
84	10.57	33.496	4.52	-	-	-	229.9	125	9.57	33.794	3.27	26.10	191.8	.340
98	10.00	33.705	4.04	-	-	-	205.2	150	9.05	33.899	3.04	26.27	176.0	.387
113	9.80	33.754	3.39	-	-	-	198.4	200	8.42	34.021	2.75	26.46	157.7	.472
138	9.30	33.843	3.15	-	-	-	184.0	250	7.88	34.072	2.16	26.58	146.1	.549
158	8.90	33.935	2.97	-	-	-	171.1	300	7.36	34.127	1.60	26.70	134.9	.622
187	8.56	34.005	2.84	-	-	-	160.8	400	6.89	34.261	.66	26.87	118.7	.754
216	8.26	34.035	2.61	-	-	-	154.3	500	5.78	34.263	.42	27.02	104.8	.872
246	7.93	34.068	2.20	-	-	-	147.1	600	5.26	34.325	.35	27.13	94.2	.978
296	7.38	34.120	1.66	-	-	-	135.7							
350	7.22	34.217	.96	-	-	-	126.3							
434	6.59	34.273	.56	-	-	-	114.0							
518	5.62	34.267	.39	-	-	-	102.6							
602	5.26	34.327	.35	-	-	-	94.0							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC
83.80					CALCOFI CRUISE 6612								83.80	
DAVID STARR JORDAN, DECEMBER 9 1966, 1342 GMT, 32 54N 122 08W, SOUNDING 2300 FM, WIND 330 FORCE 3, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 12.														
1	14.80	33.096	5.88	-	-	-	337.7	0	14.80	33.096	5.88	24.57	337.7	0
11	14.76	33.087	5.88	-	-	-	337.5	10	14.76	33.087	5.88	24.57	337.5	.034
20	14.77K	33.09 G	-	-	-	-	337.5	20	14.77	33.090	5.89	24.57	337.5	.068
30	14.78	33.086	5.89	-	-	-	338.0	30	14.78	33.086	5.89	24.57	338.0	.101
50	13.00K	33.14 G	-	-	-	-	299.1	50	13.00	33.140	5.87	24.97	299.1	.165
55	12.59	33.100	5.85	-	-	-	294.5	75	11.10	33.040	5.57	25.25	272.5	.237
63	11.88	33.048	5.78	-	-	-	285.5	100	10.85	33.540	4.17	25.69	231.4	.301
73	11.10	33.043	5.61	-	-	-	272.3	125	9.78	33.703	3.35	26.00	201.8	.355
75	11.10K	33.04 G	-	-	-	-	272.5	150	9.25	33.877	2.95	26.22	180.6	.404
87	9.88	33.158	5.16	-	-	-	243.8	200	8.30	33.987	3.05	26.45	158.4	.490
100	10.85K	33.54 G	-	-	-	-	231.4	250	7.60	34.044	2.34	26.60	144.3	.568
102	10.74	33.559	4.01	-	-	-	228.1	300	7.10	34.095	1.64	26.71	133.8	.639
125	9.78	33.703	3.35	-	-	-	201.8	400	6.44	34.198	.76	26.88	117.7	.770
144	9.39	33.854	2.89	-	-	-	184.5	500	5.74	34.252	.43	27.02	105.1	.888
168	8.83	33.919	3.22	-	-	-	171.2							
194	8.40	33.978	3.09	-	-	-	160.5							
223	7.95	34.016	2.82	-	-	-	151.3							
260	7.48	34.053	2.15	-	-	-	142.0							
318	6.96	34.115	1.46	-	-	-	130.5							
389	6.53	34.191	.82	-	-	-	119.3							
462	5.98	34.233	.52	-	-	-	109.4							
541	5.51	34.271	.38	-	-	-	101.1							
87.35					CALCOFI CRUISE 6612								87.35	
DAVID STARR JORDAN, DECEMBER 8 1966, 0418 GMT, 33 50N 118 37.5W, SOUNDING 350 FM, WIND 280 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 07.														
0	15.48	33.385	5.61	-	-	-	330.6	0	15.48	33.385	5.61	24.64	330.6	0
10	15.48	33.381	5.62	-	-	-	330.9	10	15.48	33.381	5.62	24.64	330.9	.033
20	15.44K	33.38 G	-	-	-	-	330.2	20	15.44	33.380	5.49	24.65	330.2	.066
30	14.08	33.363	5.24	-	-	-	303.6	30	14.08	33.363	5.24	24.93	303.6	.098
40	13.00	33.352	4.88	-	-	-	283.6	50	12.41	33.401	4.83	25.29	269.0	.155
55	12.20	33.435	4.79	-	-	-	262.7	75	11.29	33.544	4.27	25.61	238.6	.219
69	11.52	33.504	4.45	-	-	-	245.5	100	10.70	33.691	3.70	25.83	217.7	.277
93	10.80	33.661	3.80	-	-	-	221.6	125	10.41	33.790	3.40	25.96	205.5	.330
113	10.56	33.739	3.55	-	-	-	211.8	150	10.05	33.883	3.11	26.09	192.8	.381
133	10.30	33.823	3.30	-	-	-	201.3	200	9.27	34.038	2.74	26.34	169.0	.473
153	10.00	33.893	3.08	-	-	-	191.3	250	8.82	34.103	2.34	26.46	157.4	.557
182	9.51	34.006	2.81	-	-	-	175.1	300	8.34	34.171	1.70	26.59	145.3	.635
217	9.08	34.057	2.68	-	-	-	164.7	400	7.42	34.242	.95	26.78	127.1	.777
246	8.86	34.097	2.39	-	-	-	158.5	500	6.47	34.306	.54	26.97	110.0	.902
295	8.38	34.165	1.75	-	-	-	146.3	600	5.64	34.371	.29	27.12	95.1	1.012
348	7.96	34.215	1.31	-	-	-	136.6							
431	7.08	34.255	.77	-	-	-	121.6							
515	6.34	34.316	.50	-	-	-	107.6							
598	5.66	34.370	.29	-	-	-	95.4							
87.40					CALCOFI CRUISE 6612								87.40	
DAVID STARR JORDAN, DECEMBER 8 1966, 07 53 GMT, 33 40N 118 58W, SOUNDING 480 FM, WIND 300 FORCE 5, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 08.														
0	15.72	33.490	5.78	-	-	-	328.1	0	15.72	33.490	5.78	24.67	328.1	0
10	15.64	33.484	5.74	-	-	-	326.8	10	15.64	33.484	5.74	24.68	326.8	.033
20	15.58K	33.48 G	-	-	-	-	325.8	20	15.58	33.480	5.67	24.69	325.8	.065
30	14.88	33.447	5.58	-	-	-	313.6	30	14.88	33.447	5.58	24.82	313.6	.097
40	13.40	33.441	5.13	-	-	-	284.6	50	12.25	33.432	4.82	25.35	263.7	.155
55	11.80	33.434	4.71	-	-	-	255.6	75	11.04	33.490	4.37	25.61	238.3	.219
68	11.09	33.483	4.51	-	-	-	239.6	100	9.95	33.645	3.75	25.92	208.8	.275
75	11.04K	33.49 G	-	-	-	-	238.3	125	9.55	33.832	3.32	26.14	188.6	.325
94	10.07	33.596	3.92	-	-	-	214.4	150	9.30	33.928	3.17	26.25	177.7	.372
113	9.79	33.753	3.44	-	-	-	198.3	200	8.69	34.078	2.57	26.47	157.3	.457
132	9.42	33.869	3.29	-	-	-	183.9	250	8.26	34.179	1.56	26.61	143.5	.534
153	9.28	33.935	3.15	-	-	-	176.8	300	7.81	34.212	1.18	26.70	134.8	.606
182	8.72	34.016	3.06	-	-	-	162.4	400	6.93	34.258	.71	26.87	119.4	.739
215	8.63	34.125	2.11	-	-	-	153.0	500	6.34	34.316	.37	26.99	107.7	.859
244	8.31	34.172	1.63	-	-	-	144.8	600	5.74	34.365	.28	27.11	96.6	.968
293	7.89	34.212	1.20	-	-	-	135.8							
346	7.32	34.212	1.05	-	-	-	128.0							
429	6.76	34.287	.52	-	-	-	115.1							
514	6.26	34.322	.35	-	-	-	106.2							
596	5.76	34.363	.28	-	-	-	97.1							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH					
Z	T	S	CXY	PHO	SIL	NIT	D*T	Z	T	S	CXY	SIG*T	D*T	DD
87.45					CALCOFI CRUISE 6612								87.45	
DAVID STARR JORDAN, DECEMBER 8 1966, 1136 GMT, 33 30N 119 19W, SOUNDING 910 FM, WIND 300 FORCE 5, WEATHER MISSING, SEA MISSING, WIRE ANGLE 05.														
1	14.95	33.494	5.60	-	-	-	311.6	0	14.95	33.494	5.60	24.84	311.6	0
11	14.97	33.488	5.69	-	-	-	312.5	10	14.97	33.488	5.68	24.83	312.5	.031
20	-	-	5.73G	-	-	-	-	20	14.92	33.504	5.73	24.86	310.2	.062
30	-	-	5.78G	-	-	-	-	30	14.87	33.504	5.78	24.87	309.3	.093
31	14.81	33.503	5.79	-	-	-	308.1	50	12.39	33.430	4.81	25.32	266.5	.151
41	13.10	33.441	5.02	-	-	-	278.9	75	11.05	33.531	4.23	25.64	235.4	.214
51	12.34	33.429	4.79	-	-	-	265.7	100	10.08	33.714	3.85	25.96	205.8	.270
65	11.72	33.447	4.65	-	-	-	253.2	125	9.66	33.829	3.32	26.12	190.6	.320
80	10.72	33.580	4.02	-	-	-	226.2	150	9.22	33.936	3.12	26.27	175.8	.367
100	10.08	33.714	3.85	-	-	-	205.8	200	8.71	34.076	2.42	26.46	157.8	.452
125	9.66	33.829	3.32	-	-	-	190.6	250	8.22	34.161	1.77	26.60	144.3	.529
144	9.29	33.911	3.21	-	-	-	178.8	300	7.78	34.204	1.41	26.70	134.9	.601
173	9.00	34.018	2.74	-	-	-	166.4	400	7.01	34.260	.93	26.86	120.3	.734
203	8.68	34.081	2.38	-	-	-	157.0	500	6.39	34.304	.45	26.97	109.1	.856
232	8.38	34.135	1.92	-	-	-	148.6	600	5.74	34.348	.34	27.09	98.0	.967
273	8.02	34.186	1.64	-	-	-	139.6							
333	7.50	34.220	1.15	-	-	-	129.9							
408	6.96	34.265	.91	-	-	-	119.3							
483	6.50	34.297	.50	-	-	-	111.0							
561	6.00	34.331	.39	-	-	-	102.3							
87.50					CALCOFI CRUISE 6612								87.50	
DAVID STARR JORDAN, DECEMBER 8 1966, 1459 GMT, 33 20N 119 39.5W, SOUNDING 40 FM, WIND 300 FORCE 7, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 15.														
1	15.46	33.504	5.72	-	-	-	321.5	0	15.46	33.504	5.72	24.74	321.5	0
11	15.47	33.504	5.68	-	-	-	321.7	10	15.47	33.504	5.68	24.74	321.7	.032
20	15.48	33.504	5.67	-	-	-	321.9	20	15.48	33.504	5.67	24.73	321.9	.064
30	15.42	33.504	5.81	-	-	-	320.7	30	15.42	33.504	5.81	24.75	320.7	.097
39	14.96	33.496	5.50	-	-	-	311.7	50	13.44	33.486	5.02	25.15	282.1	.157
49	13.62	33.487	5.07	-	-	-	285.5							
87.60					CALCOFI CRUISE 6612								87.60	
DAVID STARR JORDAN, DECEMBER 8 1966, 2117 GMT, 33 04N 120 19W, SOUNDING 350 FM, WIND 310 FORCE 6, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 04.														
0	15.10	33.467	5.74	-	-	-	316.7	0	15.10	33.467	5.74	24.79	316.7	0
10	15.10	33.465	5.75	-	-	-	316.8	10	15.10	33.465	5.75	24.79	316.8	.032
20	15.10K	33.46 G	5.75G	-	-	-	317.2	20	15.10	33.460	5.75	24.78	317.2	.063
30	15.10	33.465	5.75	-	-	-	316.8	30	15.10	33.465	5.75	24.79	316.8	.095
40	13.70	33.324	5.59	-	-	-	299.0	50	12.74	33.296	5.49	25.15	282.8	.155
55	12.38	33.304	5.45	-	-	-	275.6	75	11.30	33.531	4.24	25.60	239.7	.221
69	11.63	33.525	4.28	-	-	-	245.9	100	10.24	33.581	3.91	25.82	218.2	.279
95	10.38	33.520	4.12	-	-	-	225.0	125	9.75	33.812	3.17	26.09	193.3	.331
114	9.94	33.759	3.33	-	-	-	200.2	150	9.29	33.896	2.93	26.23	179.9	.378
135	9.59	33.838	3.11	-	-	-	188.8	200	8.57	34.042	2.47	26.46	158.3	.464
155	9.19	33.915	2.87	-	-	-	176.9	250	8.14	34.119	1.89	26.58	146.3	.542
185	8.66	34.025	2.54	-	-	-	160.8	300	7.77	34.163	1.41	26.67	137.8	.616
218	8.50	34.055	2.37	-	-	-	156.2	400	6.85	34.261	.67	26.88	118.3	.749
247	8.16	34.115	1.92	-	-	-	146.9	500	6.15	34.310	.52	27.01	105.7	.868
297	7.80	34.160	1.44	-	-	-	138.5	600	5.79	34.336	.32	27.08	99.4	.977
349	7.30	34.215	.99	-	-	-	127.5							
431	6.61	34.283	.55	-	-	-	113.5							
515	6.07	34.315	.50	-	-	-	104.4							
598	5.79	34.336	.33	-	-	-	99.5							
87.70					CALCOFI CRUISE 6612								87.70	
DAVID STARR JORDAN, DECEMBER 9 1966, 0346 GMT, 32 39.5N 121 02W, SOUNDING 2100 FM, WIND 320 FORCE 6, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 07.														
1	15.34	33.191	5.76	-	-	-	341.9	0	15.34	33.191	5.76	24.53	341.9	0
11	15.36	33.190	5.86	-	-	-	342.4	10	15.36	33.190	5.85	24.52	342.4	.034
20	15.40K	33.20 G	-	-	-	-	342.5	20	15.40	33.200	5.87	24.52	342.5	.069
31	15.45	33.268	5.84	-	-	-	338.6	30	15.46	33.261	5.84	24.55	339.2	.103
50	14.40K	33.28 G	-	-	-	-	316.1	50	14.40	33.280	6.04	24.80	316.1	.168
61	12.70	33.123	5.93	-	-	-	294.8	75	11.77	33.207	5.36	25.26	271.8	.242
70	12.03	33.180	5.45	-	-	-	278.4	100	10.36	33.380	4.72	25.65	235.0	.306
85	11.29	33.263	5.25	-	-	-	259.3	125	9.77	33.630	4.17	25.94	207.1	.362
99	10.40	33.370	4.73	-	-	-	236.4	150	9.37	33.824	3.28	26.16	186.4	.412
114	9.90	33.527	4.67	-	-	-	216.8	200	8.59	34.025	2.64	26.44	159.7	.500
139	9.64	33.745	3.47	-	-	-	196.5	250	7.76	34.068	2.22	26.60	144.8	.578
158	9.16	33.874	3.21	-	-	-	179.5	300	7.18	34.103	1.66	26.71	134.3	.650
187	8.76	33.986	2.87	-	-	-	165.2	400	6.31	34.189	1.08	26.89	116.8	.781
217	8.34	34.060	2.38	-	-	-	153.5	500	5.78	34.266	.47	27.02	104.6	.897
246	7.82	34.066	2.27	-	-	-	145.7	600	5.24	34.322	.39	27.13	94.1	1.003
297	7.22	34.102	1.67	-	-	-	134.9							
348	6.67	34.127	1.57	-	-	-	125.9							
433	6.14	34.230	.74	-	-	-	111.6							
519	5.68	34.276	.42	-	-	-	102.7							
603	5.22	34.324	.39	-	-	-	93.8							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	O*T	Z	T	S	OXY	SIG*T	O*T	DD
87.80					CALCOFI CRUISE 6612								87.80	
DAVID STARR JORDAN, DECEMBER 9 1966, 0837 GMT, 32 19.5N 121 43W, SOUNDING 2100 FM, WIND 320 FORCE 5, WEATHER CLEAR, SEA MISSING, WIRE ANGLE 03.														
0	15.90	33.438	5.74	-	-	-	335.7	0	15.90	33.438	5.74	24.59	335.7	0
10	15.86	33.438	5.76	-	-	-	334.8	10	15.86	33.438	5.76	24.60	334.8	.034
20	15.87K	33.44 G	-	-	-	-	334.9	20	15.87	33.440	5.76	24.60	334.9	.067
30	15.88	33.439	5.74	-	-	-	335.2	30	15.88	33.439	5.74	24.60	335.2	.101
50	15.49K	33.45 G	-	-	-	-	326.1	50	15.49	33.450	5.14	24.69	326.1	.167
61	12.40	33.423	4.70	-	-	-	267.2	75	11.05	33.500	4.15	25.62	237.7	.238
69	11.28	33.408	4.42	-	-	-	248.4	100	9.98	33.766	3.25	26.01	200.3	.293
75	11.05K	33.50 G	-	-	-	-	237.7	125	9.25	33.912	2.91	26.25	178.1	.341
84	10.72	33.635	3.75	-	-	-	222.2	150	8.93	33.988	2.74	26.36	167.5	.385
100	9.98	33.766	3.25	-	-	-	200.3	200	8.27	34.045	2.48	26.50	153.7	.467
114	9.50	33.862	3.00	-	-	-	185.7	250	7.70	34.100	1.94	26.63	141.5	.542
139	9.04	33.957	2.83	-	-	-	171.5	300	7.37	34.160	1.40	26.73	132.6	.613
159	8.84	34.007	2.67	-	-	-	164.8	400	6.31	34.186	.86	26.89	116.9	.743
188	8.42	34.024	2.67	-	-	-	157.4	500	5.56	34.256	.46	27.04	102.8	.859
217	8.08	34.075	2.17	-	-	-	148.7	600	5.13	34.316	.49	27.14	93.4	.963
247	7.72	34.096	1.97	-	-	-	142.1							
297	7.40	34.158	1.43	-	-	-	133.1							
352	6.80	34.179	1.03	-	-	-	123.7							
436	5.98	34.189	.77	-	-	-	112.7							
520	5.45	34.272	.42	-	-	-	100.3							
604	5.12	34.317	.50	-	-	-	93.2							
90.28					CALCOFI CRUISE 6612								90.28	
DAVID STARR JORDAN, DECEMBER 7 1966, 0911 GMT, 33 28.5N 117 46.5W, SOUNDING 200 FM, WIND 270 FORCE 5, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 06.														
1	16.62	33.415	5.76	-	-	-	353.0	0	16.62	33.415	5.76	24.41	353.0	0
11	16.61	33.411	5.75	-	-	-	353.1	10	16.61	33.412	5.75	24.41	353.2	.035
31	16.36	33.392	5.89	-	-	-	349.0	20	16.52	33.399	5.87	24.42	352.0	.071
46	13.44	33.421	5.30	-	-	-	286.9	30	16.43	33.392	5.89	24.44	350.4	.106
61	12.16	33.450	4.62	-	-	-	260.9	50	12.98	33.428	5.10	25.20	277.6	.169
74	11.74	33.491	4.43	-	-	-	250.3	75	11.71	33.495	4.41	25.50	249.5	.235
89	11.34	33.555	4.14	-	-	-	238.6	100	11.14	33.596	4.00	25.68	232.1	.296
108	10.99	33.630	3.90	-	-	-	227.1	125	10.53	33.736	3.53	25.90	211.4	.352
133	10.30	33.791	3.34	-	-	-	203.7	150	9.94	33.893	3.04	26.12	190.3	.403
153	9.88	33.909	3.00	-	-	-	188.2	200	9.26	34.037	2.65	26.34	169.0	.494
196	9.30	34.029	2.68	-	-	-	170.2	250	8.82	34.117	2.23	26.48	156.4	.578
231	9.00	34.087	2.41	-	-	-	161.3	300	8.30	34.186	1.57	26.61	143.5	.655
265	8.67	34.139	2.06	-	-	-	152.5							
304	8.25	34.191	1.50	-	-	-	142.5							
90.32					CALCOFI CRUISE 6612								90.32	
DAVID STARR JORDAN, DECEMBER 7 1966, 0632 GMT, 33 20.5N 118 01.5W, SOUNDING 410 FM, WIND 280 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 03.														
0	15.21	33.279	5.82	-	-	-	332.7	0	15.21	33.279	5.82	24.62	332.7	0
10	15.22	33.277	5.83	-	-	-	333.1	10	15.22	33.277	5.83	24.62	333.1	.033
20	14.30K	33.28 G	-	-	-	-	314.1	20	14.30	33.280	5.57	24.82	314.1	.066
30	12.18	33.319	5.11	-	-	-	270.9	30	12.18	33.319	5.11	25.27	270.9	.095
40	12.00	33.462	4.50	-	-	-	257.1	50	11.70	33.517	4.22	25.51	247.7	.147
55	11.52	33.531	4.15	-	-	-	243.5	75	10.86	33.646	3.78	25.77	223.7	.206
69	11.02	33.614	3.92	-	-	-	228.8	100	10.27	33.763	3.37	25.96	205.3	.260
93	10.44	33.733	3.41	-	-	-	210.3	125	9.81	33.898	3.05	26.14	187.8	.310
113	9.99	33.823	3.29	-	-	-	196.3	150	9.50	33.992	2.80	26.27	176.1	.356
132	9.72	33.939	2.91	-	-	-	183.4	200	8.80	34.077	2.42	26.45	159.2	.442
152	9.48	33.996	2.79	-	-	-	175.4	250	8.39	34.156	1.80	26.57	147.1	.520
181	9.04	34.048	2.64	-	-	-	164.8	300	8.01	34.215	1.24	26.68	137.2	.594
214	8.66	34.097	2.23	-	-	-	155.5	400	7.14	34.261	.66	26.84	122.0	.729
243	8.44	34.145	1.89	-	-	-	148.7	500	6.39	34.304	.73	26.97	109.1	.851
292	8.06	34.209	1.30	-	-	-	138.5	600	5.90	34.341	.24	27.07	100.4	.964
345	7.68	34.238	.98	-	-	-	131.0							
427	6.88	34.271	.56	-	-	-	117.8							
512	6.32	34.309	.72	-	-	-	107.9							
596	5.92	34.340	.28	-	-	-	100.7							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH					
Z	T	S	OXY	PPC	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DC
90.37					CALCOFI CRUISE 6612								90.37	
DAVID STARR JORDAN, DECEMBER 7 1966, 0334 GMT, 33 11N 118 22.5W, SOUNDING 650 FM, WIND 220 FORCE 5, WEATHER DRIZZLE, SEA MISSING, WIRE ANGLE 25.														
0	16.53	33.488	5.74	-	-	-	345.7	0	16.53	33.488	5.74	24.48	345.7	0
10	16.53K	33.49 G	-	-	-	-	345.6	10	16.53	33.490	5.77	24.49	345.6	.035
20	16.54K	33.49 G	-	-	-	-	345.8	20	16.54	33.490	5.77	24.48	345.8	.069
21	16.54	33.486	5.77	-	-	-	346.1	30	16.32	33.474	5.76	24.52	342.2	.104
32	16.18	33.468	5.75	-	-	-	339.5	50	13.40	33.277	5.61	25.00	296.7	.168
44	14.12	33.340	5.65	-	-	-	306.1	75	11.78	33.436	4.68	25.44	255.0	.237
57	12.76	33.235	5.57	-	-	-	287.7	100	10.22	33.531	4.21	25.79	221.6	.297
79	11.60	33.493	4.48	-	-	-	247.7	125	9.80	33.768	3.51	26.04	197.3	.350
96	10.35	33.497	4.35	-	-	-	226.2	150	9.45	33.922	3.31	26.22	180.4	.398
114	9.96	33.676	3.67	-	-	-	206.7	200	8.72	34.041	2.98	26.43	160.5	.485
140	9.61	33.871	3.40	-	-	-	186.7	250	8.27	34.133	2.06	26.57	147.1	.564
166	9.20	33.986	3.12	-	-	-	171.8	300	7.93	34.190	1.55	26.67	138.0	.638
173	9.12	34.012	2.99	-	-	-	168.7	400	6.94	34.239	.91	26.85	121.0	.773
200	8.72	34.041	2.98	-	-	-	160.5	500	6.26	34.299	.49	26.99	107.9	.894
226	8.41	34.087	2.47	-	-	-	152.6							
270	8.18	34.166	1.79	-	-	-	143.4							
327	7.67	34.202	1.41	-	-	-	133.5							
415	6.80	34.247	.82	-	-	-	118.6							
494	6.30	34.295	.51	-	-	-	108.7							
563	5.90	34.342	.41	-	-	-	100.3							
90.45					CALCOFI CRUISE 6612								90.45	
DAVID STARR JORDAN, DECEMBER 6 1966, 2305 GMT, 32 54.5N 118 55.5W, SOUNDING 920 FM, WIND 220 FORCE 6, WEATHER RAIN, SEA VERY ROUGH, WIRE ANGLE 40.														
0	16.36	33.462	5.81	-	-	-	343.9	0	16.36	33.462	5.81	24.50	343.5	0
8	16.34	33.461	5.79	-	-	-	343.5	10	16.34	33.461	5.78	24.51	343.5	.034
20	16.34K	33.46 G	-	-	-	-	343.6	20	16.34	33.460	5.76	24.51	343.6	.069
27	16.34	33.463	5.78	-	-	-	343.4	30	16.33	33.460	5.84	24.51	343.4	.103
30	16.33K	33.46 G	-	-	-	-	343.4	50	12.84	33.303	5.46	25.13	284.1	.166
35	15.68	33.402	5.89	-	-	-	333.6	75	11.79	33.449	4.79	25.44	254.4	.234
45	13.09	33.287	5.60	-	-	-	290.0	100	10.91	33.603	4.09	25.73	227.7	.295
56	12.56	33.349	5.29	-	-	-	275.6	125	10.07	33.846	3.29	26.06	195.8	.348
78	11.69	33.464	4.72	-	-	-	251.4	150	9.48	33.947	3.16	26.24	179.1	.396
94	11.19	33.535	4.34	-	-	-	237.5	200	8.72	34.077	2.64	26.46	157.8	.482
108	10.54	33.702	3.75	-	-	-	214.2	250	8.38	34.160	1.88	26.58	146.8	.560
131	9.94	33.882	3.19	-	-	-	191.1	300	7.83	34.200	1.44	26.69	135.5	.633
152	9.44	33.952	3.15	-	-	-	178.1	400	6.97	34.262	.82	26.86	119.7	.766
185	8.97	34.086	2.47	-	-	-	160.9	500	6.24	34.301	.45	26.99	107.4	.886
209	8.58	34.068	2.75	-	-	-	156.5							
254	8.36	34.171	1.76	-	-	-	145.6							
305	7.77	34.203	1.41	-	-	-	134.8							
383	7.11	34.253	.89	-	-	-	122.2							
457	6.54	34.288	.60	-	-	-	112.2							
520	6.10	34.306	.39	-	-	-	105.4							
90.53					CALCOFI CRUISE 6612								90.53	
DAVID STARR JORDAN, DECEMBER 6 1966, 1857 GMT, 32 41N 119 29W, SOUNDING 750 FM, WIND 220 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 05.														
0	16.62	33.477	5.74	-	-	-	348.5	0	16.62	33.477	5.74	24.48	348.5	0
10	16.60	33.467	5.77	-	-	-	348.8	10	16.60	33.467	5.77	24.45	348.8	.035
35	16.58	33.465	5.84	-	-	-	348.5	20	16.59	33.466	5.83	24.45	348.6	.070
50	15.30K	33.40 G	-	-	-	-	325.8	30	16.58	33.465	5.85	24.46	348.5	.105
64	11.78	33.309	5.19	-	-	-	264.5	50	15.30	33.400	5.60	24.69	325.8	.172
73	11.16	33.388	4.84	-	-	-	247.8	75	11.09	33.404	4.77	25.54	245.5	.244
93	10.71	33.521	4.23	-	-	-	230.4	100	10.48	33.551	4.11	25.76	224.3	.303
108	10.19	33.593	3.98	-	-	-	216.5	125	9.61	33.764	3.59	26.07	194.6	.356
123	9.66	33.745	3.64	-	-	-	196.8	150	9.07	33.943	2.98	26.30	173.1	.403
152	9.04	33.953	2.94	-	-	-	171.8	200	8.38	34.058	2.47	26.50	154.3	.486
172	8.70	34.008	3.450	-	-	-	162.7	250	8.00	34.103	2.01	26.59	145.6	.563
200	8.38	34.058	2.47	-	-	-	154.3	300	7.64	34.186	1.25	26.71	134.3	.636
236	8.02	34.084	2.19	-	-	-	147.2	400	6.82	34.257	.65	26.88	118.1	.767
264	7.99	34.124	1.81	-	-	-	143.8	500	6.26	34.304	.43	26.99	107.5	.887
314	7.47	34.208	1.05	-	-	-	130.3	600	5.71	34.337	.36	27.09	98.4	.997
377	6.95	34.245	.74	-	-	-	120.7							
475	6.44	34.292	.45	-	-	-	110.6							
563	5.88	34.328	.39	-	-	-	101.1							
636	5.57	34.343	.33	-	-	-	96.4							

	INPUT							CUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
90.60					CALCOFI CRUISE 6612								90.60	

DAVID STARR JORDAN, DECEMBER 6 1966, 1458 GMT, 32 25.5N 119 57.5W, SOUNDING 500 FM, WIND 220 FORCE 4, WEATHER OVERCAST, SEA MISSING, WIRE ANGLE 28.

1	15.86	33.323	5.85	-	-	-	343.2	0	15.86	33.323	5.85	24.51	343.2	0
9	15.86	33.327	5.83	-	-	-	342.9	10	15.86	33.327	5.83	24.51	342.9	.034
20	15.86K	33.33 G	-	-	-	-	342.7	20	15.86	33.330	5.86	24.52	342.7	.069
30	15.86K	33.33 G	-	-	-	-	342.7	30	15.86	33.330	5.88	24.52	342.7	.103
32	15.68	33.369	5.89	-	-	-	336.0	50	15.00	33.340	5.84	24.71	323.9	.170
50	15.00K	33.34 G	-	-	-	-	323.9	75	11.60	33.244	5.36	25.32	266.1	.244
57	13.76	33.305	5.78	-	-	-	301.6	100	10.33	33.586	4.05	25.81	219.4	.305
65	12.56	33.231	5.67	-	-	-	284.3	125	9.88	33.743	3.50	26.01	200.4	.358
83	11.09	33.323	4.97	-	-	-	251.4	150	9.23	33.893	3.30	26.24	179.2	.406
96	10.42	33.550	4.07	-	-	-	223.5	200	8.49	34.063	2.39	26.48	155.5	.492
108	10.22	33.637	4.02	-	-	-	213.8	250	7.76	34.106	1.94	26.63	141.9	.568
134	9.67	33.796	3.23	-	-	-	193.2	300	7.25	34.168	1.30	26.75	130.4	.638
152	9.18	33.905	3.31	-	-	-	177.5	400	6.90	34.248	.84	26.86	119.8	.769
177	8.72	34.020	2.70	-	-	-	162.1	500	6.36	34.277	.65	26.96	110.8	.891
207	8.43	34.069	2.33	-	-	-	154.2	600	5.78	34.352	.42	27.09	98.1	1.002
240	7.94	34.095	2.10	-	-	-	145.2							
282	7.27	34.146	1.43	-	-	-	132.3							
341	7.21	34.212	1.14	-	-	-	126.6							
431	6.70	34.259	.72	-	-	-	116.4							
512	6.30	34.283	.63	-	-	-	109.6							
584	5.88	34.336	.47	-	-	-	100.5							

90.70					CALCOFI CRUISE 6612								90.70	

DAVID STARR JORDAN, DECEMBER 6 1966, 0944 GMT, 32 01N 120 39W, SOUNDING 2150 FM, WIND 220 FORCE 5, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 27.

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

90.80					CALCOFI CRUISE 6612								90.80	

DAVID STARR JORDAN, DECEMBER 6 1966, 0512 GMT, 31 44.5N 121 19.5W, SOUNDING 2100 FM, WIND 330 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 40.

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

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH					
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
90.90					CALCOFI CRUISE 6612								90.90	
DAVID STARR JORDAN, DECEMBER 5 1966, 2345 GMT, 31 23N 122 01W, SOUNDING 2270 FM, WIND 230 FORCE 5, WEATHER OVERCAST, SEA HIGH, WIRE ANGLE 33.														
0	16.80	33.124	5.73	-	-	-	378.2	0	16.80	33.124	5.73	24.14	378.2	0
8	16.80	33.129	5.78	-	-	-	377.9	10	16.80	33.130	5.78	24.15	377.8	.038
10	16.80K	33.13 G	-	-	-	-	377.8	20	16.81	33.130	5.77	24.15	378.0	.076
20	16.81K	33.13 G	-	-	-	-	378.0	30	16.82	33.133	5.78	24.15	378.0	.114
30	16.82	33.133	5.78	-	-	-	378.0	50	16.85	33.140	6.15	24.14	378.2	.189
50	16.85K	33.14 G	-	-	-	-	378.2	75	13.19	33.175	5.95	24.96	300.1	.275
54	15.43	33.231	6.19	-	-	-	340.9	100	11.67	33.214	5.47	25.29	269.5	.346
62	14.29	33.202	6.07	-	-	-	319.6	125	10.71	33.477	4.50	25.66	233.7	.410
80	12.86	33.171	5.89	-	-	-	294.2	150	9.81	33.691	3.90	25.98	203.2	.465
92	11.82	33.177	5.61	-	-	-	274.9	200	8.78	33.973	3.94	26.37	166.4	.559
105	11.56	33.249	5.36	-	-	-	265.0	250	7.92	34.025	2.94	26.54	150.2	.640
129	10.52	33.525	4.32	-	-	-	227.0	300	7.17	34.059	2.40	26.68	137.4	.714
145	9.98	33.643	3.93	-	-	-	209.5	400	6.24	34.143	1.17	26.87	119.4	.848
168	9.29	33.854	3.93	-	-	-	183.0	500	5.70	34.238	.56	27.01	105.7	.966
195	8.86	33.962	4.02	-	-	-	168.5							
219	8.46	34.002	3.53	-	-	-	159.6							
257	7.80	34.028	2.82	-	-	-	148.3							
311	7.03	34.067	2.31	-	-	-	135.0							
393	6.28	34.136	1.23	-	-	-	120.3							
471	5.86	34.210	.68	-	-	-	109.7							
540	5.47	34.277	.46	-	-	-	100.2							
90.97					CALCOFI CRUISE 6612								90.97	
DAVID STARR JORDAN, DECEMBER 5 1966, 2018 GMT, 31 10N 122 26W, SOUNDING 2250 FM, WIND 220 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 25.														
1	16.65	33.073	5.78	-	-	-	378.7	0	16.65	33.073	5.78	24.14	378.7	0
10	16.62	33.073	5.88	-	-	-	378.0	10	16.62	33.073	5.88	24.15	378.0	.038
20	16.62K	33.07 G	-	-	-	-	378.2	20	16.62	33.070	5.83	24.14	378.2	.076
30	16.62K	33.08 G	-	-	-	-	377.5	30	16.62	33.080	5.78	24.15	377.5	.114
34	16.62	33.076	5.76	-	-	-	377.8	50	16.73	33.100	6.05	24.14	378.4	.189
50	16.73K	33.10 G	-	-	-	-	378.4	75	13.08	33.192	6.07	25.00	296.8	.274
60	14.66	33.209	6.21	-	-	-	326.6	100	11.21	33.337	5.06	25.46	252.4	.343
69	13.72	33.219	6.18	-	-	-	307.1	125	10.17	33.602	4.24	25.85	215.5	.402
86	12.04	33.174	5.71	-	-	-	279.0	150	9.42	33.824	3.79	26.15	187.1	.453
99	11.26	33.326	5.10	-	-	-	254.1	200	8.61	33.984	3.79	26.41	163.1	.543
113	10.63	33.480	4.57	-	-	-	232.1	250	7.61	34.033	2.73	26.59	145.3	.622
139	9.71	33.731	3.96	-	-	-	198.6	300	7.00	34.082	1.86	26.72	133.4	.693
156	9.28	33.868	3.73	-	-	-	181.8	400	6.17	34.176	.91	26.90	115.9	.823
183	8.87	33.956	3.98	-	-	-	169.1	500	5.62	34.262	.49	27.04	103.0	.938
213	8.38	33.998	3.54	-	-	-	158.7	600	5.32	34.347	.30	27.14	93.2	1.043
240	7.78	34.024	2.94	-	-	-	148.3							
282	7.18	34.064	2.12	-	-	-	137.2							
339	6.67	34.121	1.40	-	-	-	126.3							
429	5.96	34.201	.75	-	-	-	111.6							
510	5.58	34.271	.46	-	-	-	101.9							
582	5.36	34.332	.32	-	-	-	94.8							
90.110					CALCOFI CRUISE 6612								90.110	
DAVID STARR JORDAN, DECEMBER 5 1966, 1425 GMT, 30 45.5N 123 15W, SOUNDING 2080 FM, WIND 230 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 27.														
0	17.26	33.257	5.64	-	-	-	378.8	0	17.26	33.257	5.64	24.14	378.8	0
9	17.24	33.258	5.61	-	-	-	378.3	10	17.25	33.260	5.61	24.14	378.4	.038
31	17.37	33.299	5.66	-	-	-	378.3	20	17.32	33.280	5.63	24.14	378.6	.076
40	17.26	33.292	5.67	-	-	-	376.3	30	17.37	33.297	5.66	24.14	378.3	.114
55	16.30	33.242	5.89	-	-	-	358.7	50	16.83	33.268	5.80	24.25	368.4	.189
66	13.83	33.134	6.08	-	-	-	315.5	75	13.43	33.155	6.03	24.90	306.3	.273
88	12.90	33.242	5.78	-	-	-	289.8	100	12.31	33.276	5.52	25.21	276.4	.347
105	12.06	33.291	5.40	-	-	-	270.8	125	11.11	33.409	4.91	25.54	245.4	.413
128	10.98	33.432	4.83	-	-	-	241.5	150	10.18	33.630	4.30	25.87	213.6	.471
150	10.18K	33.63 G	-	-	-	-	213.6	200	8.78	33.957	3.40	26.36	167.6	.568
158	9.84	33.715	4.12	-	-	-	201.9	250	7.97	34.026	2.96	26.54	150.8	.649
184	9.09	33.897	3.65	-	-	-	176.8	300	7.39	34.094	1.79	26.67	137.8	.724
220	8.46	33.997	3.17	-	-	-	160.0	400	6.40	34.162	1.00	26.86	119.9	.858
247	8.01	34.022	3.03	-	-	-	151.7	500	5.66	34.223	.52	27.00	106.4	.977
294	7.46	34.089	1.87	-	-	-	139.1	600	5.20	34.321	.35	27.14	93.9	1.083
352	6.85	34.129	1.36	-	-	-	128.0							
445	6.03	34.192	.73	-	-	-	113.1							
527	5.51	34.244	.45	-	-	-	103.1							
601	5.20	34.322	.35	-	-	-	93.7							

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD

90.120 CALCOFI CRUISE 6612 90.120

DAVID STARR JORDAN, DECEMBER 5 1966, 0807 GMT, 30 26N 123 55W, SOUNDING 2300 FM, WIND 220 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 32.

1	17.76	33.393	5.63	-	-	-	380.3	0	17.76	33.393	5.63	24.12	380.3	0
9	17.76	33.390	5.61	-	-	-	380.6	10	17.76	33.390	5.61	24.12	380.6	.038
31	17.78	33.393	5.63	-	-	-	380.8	20	17.77	33.390	5.61	24.12	380.8	.076
56	17.77	33.404	5.64	-	-	-	379.8	30	17.78	33.393	5.63	24.12	380.8	.114
65	16.70	33.346	5.88	-	-	-	359.8	50	17.77	33.413	5.64	24.13	379.3	.151
75	14.55K	33.26 G	-	-	-	-	320.6	75	14.55	33.260	6.10	24.75	320.6	.279
82	13.42	33.233	6.13	-	-	-	300.3	100	11.88	33.252	5.52	25.28	270.5	.353
94	12.32	33.235	5.74	-	-	-	279.6	125	10.51	33.477	4.53	25.70	230.4	.416
105	11.56	33.275	5.33	-	-	-	263.1	150	9.78	33.682	3.94	25.98	203.4	.471
130	10.32	33.534	4.35	-	-	-	223.0	200	8.86	33.958	3.13	26.35	168.8	.566
146	9.88	33.648	4.00	-	-	-	207.5	250	8.13	34.060	2.52	26.54	150.5	.648
169	9.36	33.829	3.70	-	-	-	185.9	300	7.49	34.090	2.13	26.65	139.4	.722
196	8.92	33.943	3.19	-	-	-	170.8	400	6.41	34.130	1.29	26.83	122.4	.859
219	8.60	34.019	2.86	-	-	-	160.4	500	5.68	34.221	.70	27.00	106.8	.979
261	7.97	34.066	2.42	-	-	-	147.8							
318	7.29	34.097	2.01	-	-	-	136.2							
399	6.42	34.129	1.30	-	-	-	122.6							
474	5.84	34.192	.86	-	-	-	110.8							
546	5.46	34.282	.40	-	-	-	99.7							

90.130 CALCOFI CRUISE 6612 90.130

DAVID STARR JORDAN, DECEMBER 5 1966, 0315 GMT, 30 05N 124 36.5W, SOUNDING 2500 FM, WIND 220 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 20.

1	17.74	33.357	5.67	-	-	-	382.5	0	17.74	33.357	5.67	24.10	382.5	0
10	17.72	33.358	5.67	-	-	-	382.0	10	17.72	33.358	5.67	24.10	382.0	.038
20	17.80K	33.40 G	-	-	-	-	380.8	20	17.80	33.400	5.65	24.12	380.8	.076
33	18.08	33.555	5.63	-	-	-	376.0	30	18.02	33.522	5.64	24.16	377.0	.114
43	18.07	33.557	5.62	-	-	-	375.6	50	18.01	33.580	5.63	24.20	372.5	.190
50	18.01K	33.58 G	-	-	-	-	372.5	75	14.86	33.353	6.20	24.75	320.2	.277
56	17.88	33.597	5.64	-	-	-	368.3	100	13.01	33.327	5.97	25.12	285.7	.353
71	15.34	33.377	6.18	-	-	-	328.3	125	12.08	33.410	5.55	25.36	262.4	.422
93	13.37	33.325	6.05	-	-	-	292.6	150	11.04	33.662	5.00	25.75	225.6	.484
113	12.52	33.342	5.78	-	-	-	275.4	200	9.39	33.904	4.48	26.22	180.9	.587
132	11.83	33.465	5.41	-	-	-	253.8	250	8.51	34.001	4.10	26.43	160.4	.675
160	10.61	33.765	4.80	-	-	-	210.7	300	7.51	34.025	2.75	26.60	144.5	.753
187	9.70	33.856	4.55	-	-	-	189.2	400	6.27	34.070	1.79	26.81	125.1	.893
225	8.93	33.977	4.33	-	-	-	168.4	500	5.66	34.178	.82	26.97	109.8	1.017
253	8.46	34.002	4.06	-	-	-	159.6	600	5.06	34.265	.41	27.11	96.5	1.126
299	7.53	34.025	2.76	-	-	-	144.8							
360	6.63	34.041	2.24	-	-	-	131.8							
453	5.93	34.122	1.20	-	-	-	117.1							
537	5.44	34.215	.60	-	-	-	104.5							
610	5.00	34.271	.40	-	-	-	95.3							

90.140 CALCOFI CRUISE 6612 90.140

DAVID STARR JORDAN, DECEMBER 4 1966, 2238 GMT, 29 45N 125 17W, SOUNDING 2440 FM, WIND 220 FORCE 5, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 22.

0	18.47	33.731	5.51	-	-	-	372.3	0	18.47	33.731	5.51	24.21	372.3	0
10	18.43	33.724	5.53	-	-	-	371.9	10	18.43	33.724	5.53	24.21	371.9	.037
30	18.60K	33.84 G	-	-	-	-	367.5	20	18.50	33.771	5.53	24.23	370.1	.074
33	18.62	33.858	5.51	-	-	-	366.7	30	18.60	33.840	5.51	24.26	367.5	.111
50	18.80K	33.95 G	-	-	-	-	364.3	50	18.80	33.950	5.49	24.29	364.3	.185
58	18.88	33.968	5.51	-	-	-	364.9	75	17.00	33.820	5.71	24.63	332.0	.272
68	18.28	33.868	5.59	-	-	-	357.9	100	15.86	33.939	5.73	24.98	298.2	.352
75	17.00K	33.82 G	-	-	-	-	332.0	125	15.06	33.994	5.49	25.20	277.4	.425
87	16.06	33.825	5.86	-	-	-	310.9	150	13.87	33.933	5.26	25.41	257.8	.492
101	15.84	33.948	5.72	-	-	-	297.2	200	10.24	33.811	4.54	26.00	201.1	.609
115	15.31	33.961	5.60	-	-	-	285.0	250	9.04	33.987	4.34	26.34	169.3	.704
141	14.50	34.004	5.32	-	-	-	265.1	300	8.04	34.010	3.48	26.51	153.0	.787
161	12.99	33.835	5.17	-	-	-	247.9	400	6.62	34.057	2.02	26.75	130.4	.934
187	10.90	33.761	4.74	-	-	-	215.9	500	5.70	34.142	.96	26.93	112.9	1.062
218	9.62	33.908	4.34	-	-	-	184.1	600	5.09	34.240	.51	27.08	98.6	1.174
246	9.12	33.982	4.39	-	-	-	170.9							
293	8.18	34.008	3.59	-	-	-	155.1							
354	7.11	34.030	2.65	-	-	-	138.8							
446	6.24	34.092	1.48	-	-	-	123.1							
530	5.46	34.171	.75	-	-	-	108.0							
602	5.08	34.242	.51	-	-	-	98.4							

INPUT

Z	T	S	CXY	PHC	SIL	NIT	D*T

OUTPUT AT STANDARD LEVELS OR DEPTH

Z	T	S	CXY	SIGT	D*T	DC

93.28 CALCOFI CRUISE 6612 93.28

DAVID STARR JORDAN, DECEMBER 2 1966, 0421 GMT, 32 54.5N 117 22W, SOUNDING 315 FM, WIND 360 FORCE 1, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 12.

Z	T	S	CXY	PHC	SIL	NIT	D*T	Z	T	S	CXY	SIGT	D*T	DC
0	15.82	33.454	5.93	-	-	-	332.8	0	15.82	33.454	5.93	24.62	332.8	0
9	15.80	33.446	5.99	-	-	-	333.0	10	15.79	33.440	5.99	24.62	333.2	.033
10	15.79K	33.44 G	-	-	-	-	333.2	20	15.15	33.410	5.85	24.73	321.9	.066
20	15.15K	33.41 G	-	-	-	-	321.9	30	12.78	33.368	5.49	25.19	278.3	.096
28	13.06	33.383	5.60	-	-	-	283.9	50	11.58	33.478	4.54	25.51	248.4	.149
43	11.88	33.443	4.77	-	-	-	256.4	75	10.95	33.610	4.02	25.72	227.8	.209
53	11.48	33.492	4.47	-	-	-	245.7	100	10.43	33.763	3.46	25.93	207.8	.264
66	11.15	33.549	4.28	-	-	-	235.8	125	9.75	33.934	2.94	26.18	184.3	.313
81	10.82	33.653	3.84	-	-	-	222.5	150	9.48	34.001	2.79	26.28	175.0	.359
96	10.55	33.732	3.56	-	-	-	212.2	200	8.96	34.105	2.31	26.45	159.3	.444
120	9.84	33.912	3.00	-	-	-	187.3	250	8.51	34.158	1.88	26.56	148.8	.523
140	9.56	33.980	2.83	-	-	-	177.9	300	8.18	34.196	1.45	26.64	141.1	.598
169	9.34	34.035	2.69	-	-	-	170.4	400	7.14	34.258	.77	26.84	122.2	.736
197	8.99	34.100	2.35	-	-	-	160.2	500	6.36	34.304	.42	26.98	108.7	.858
226	8.70	34.140	2.04	-	-	-	152.9							
265	8.41	34.166	1.79	-	-	-	146.7							
322	8.01	34.215	1.24	-	-	-	137.3							
375	7.44	34.245	.92	-	-	-	127.2							
432	6.82	34.274	.61	-	-	-	116.8							
491	6.40	34.300	.43	-	-	-	109.6							

93.30 CALCOFI CRUISE 6612 93.30

DAVID STARR JORDAN, DECEMBER 2 1966, 0624 GMT, 32 50.5N 117 31W, SOUNDING 480 FM, WIND 360 FORCE 2, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 02.

Z	T	S	CXY	PHC	SIL	NIT	D*T	Z	T	S	CXY	SIGT	D*T	DC
0	16.93	33.522	5.76	-	-	-	352.1	0	16.93	33.522	5.76	24.42	352.1	0
9	16.95	33.519	5.85	-	-	-	352.8	10	16.95	33.520	5.85	24.41	352.7	.035
10	16.95K	33.52 G	-	-	-	-	352.7	20	16.80	33.510	5.86	24.44	350.1	.070
20	16.80K	33.51 G	-	-	-	-	350.1	30	14.15	33.349	5.81	24.90	306.0	.103
29	14.34	33.356	5.84	-	-	-	309.3	50	12.14	33.357	5.25	25.31	267.4	.161
39	12.90	33.330	5.51	-	-	-	283.3	75	11.22	33.548	4.24	25.63	237.1	.224
49	12.18	33.353	5.28	-	-	-	268.4	100	10.47	33.782	3.40	25.94	207.3	.285
63	11.79	33.440	4.75	-	-	-	255.0	125	9.87	33.931	3.06	26.16	186.4	.339
78	11.08	33.577	4.12	-	-	-	232.5	150	9.65	34.010	2.80	26.26	177.1	.376
98	10.54	33.765	3.44	-	-	-	209.6	200	9.08	34.124	2.16	26.44	159.8	.462
118	9.96	33.904	3.11	-	-	-	189.8	250	8.62	34.166	1.90	26.55	149.7	.542
143	9.74	33.983	2.92	-	-	-	180.5	300	8.16	34.203	1.41	26.64	140.3	.617
173	9.36	34.088	2.39	-	-	-	166.7	400	7.19	34.252	.79	26.83	123.3	.754
202	9.06	34.125	2.15	-	-	-	159.4	500	6.48	34.289	.47	26.95	111.4	.878
232	8.78	34.154	2.08	-	-	-	153.0							
272	8.42	34.179	1.65	-	-	-	145.9							
330	7.88	34.228	1.19	-	-	-	134.5							
406	7.13	34.253	.76	-	-	-	122.4							
479	6.64	34.278	.53	-	-	-	114.2							
558	6.02	34.327	.33	-	-	-	102.9							

93.40 CALCOFI CRUISE 6612 93.40

DAVID STARR JORDAN, DECEMBER 2 1966, 1143 GMT, 32 30N 118 11.5W, SOUNDING 1000 FM, WIND CALM, WEATHER FOG, SEA MISSING, WIRE ANGLE 06.

Z	T	S	CXY	PHC	SIL	NIT	D*T	Z	T	S	CXY	SIGT	D*T	DC
0	17.00	33.535	5.72	-	-	-	352.7	0	17.00	33.535	5.72	24.41	352.7	0
10	16.98	33.534	5.73	-	-	-	352.4	10	16.98	33.534	5.73	24.42	352.4	.035
20	17.00K	33.54 G	-	-	-	-	352.4	20	17.00	33.540	5.76	24.42	352.4	.071
30	17.00	33.536	5.77	-	-	-	352.7	30	17.00	33.536	5.77	24.41	352.7	.106
40	15.14	33.388	5.73	-	-	-	323.3	50	13.13	33.347	5.46	25.11	286.5	.170
51	12.96	33.345	5.43	-	-	-	283.3	75	11.60	33.475	4.59	25.50	249.0	.237
65	12.18	33.424	4.91	-	-	-	263.1	100	10.87	33.628	3.98	25.75	225.3	.297
78	11.44	33.491	4.50	-	-	-	245.1	125	10.20	33.789	3.37	25.99	202.1	.351
98	10.94	33.614	4.04	-	-	-	227.4	150	9.86	33.921	2.99	26.15	187.0	.400
118	10.32	33.751	3.51	-	-	-	207.0	200	9.19	34.108	2.34	26.41	162.6	.490
143	9.96	33.880	3.08	-	-	-	191.6	250	8.68	34.169	1.87	26.54	150.4	.570
173	9.54	34.039	2.72	-	-	-	173.2	300	8.07	34.167	1.66	26.63	141.8	.645
204	9.14	34.114	2.29	-	-	-	161.4	400	7.25	34.236	.91	26.80	125.3	.785
234	8.82	34.154	2.01	-	-	-	153.6	500	6.46	34.302	.38	26.96	110.2	.909
273	8.46	34.180	1.70	-	-	-	146.4							
333	7.62	34.153	1.61	-	-	-	136.5							
408	7.22	34.248	.82	-	-	-	124.0							
482	6.59	34.293	.45	-	-	-	112.5							
559	6.09	34.324	.21	-	-	-	103.9							

93.50 CALCOFI CRUISE 6612 93.50

DAVID STARR JORDAN, DECEMBER 2 1966, 1637 GMT, 32 10N 118 51.5W, SOUNDING 850 FM, WIND 300 FORCE 1, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 09.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.86	33.337	5.72	-	-	-	364.0
10	16.80	33.337	5.80	-	-	-	362.7
20	16.69K	33.34 G	-	-	-	-	360.1
29	16.56	33.336	5.77	-	-	-	357.5
39	16.42	33.487	5.81	-	-	-	343.4
49	14.68	33.266	6.06	-	-	-	322.8
63	13.08	33.200	5.73	-	-	-	296.2
77	11.66	33.312	5.15	-	-	-	262.1
97	10.72	33.436	4.64	-	-	-	236.9
122	10.07	33.601	4.07	-	-	-	214.0
142	9.64	-	3.31	-	-	-	-
171	9.09	-	2.71	-	-	-	-
199	8.64	-	2.44	-	-	-	-
228	8.03	34.071	2.23	-	-	-	148.3
267	7.60	34.082	1.99	-	-	-	141.5
325	7.00	34.124	1.66	-	-	-	130.3
398	6.68	34.215	.79	-	-	-	119.4
472	6.16	34.271	.47	-	-	-	108.8
549	5.68	34.306	.37	-	-	-	100.4

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.86	33.337	5.72	24.29	364.0	0
10	16.80	33.337	5.80	24.31	362.7	.036
20	16.69	33.340	5.79	24.33	360.1	.073
30	16.55	33.356	5.77	24.38	355.7	.108
50	14.55	33.254	6.05	24.74	321.0	.176
75	11.84	33.291	5.23	25.31	266.8	.250
100	10.62	33.456	4.58	25.66	233.8	.313
125	10.00	33.621	3.96	25.90	211.4	.369
150	9.48	33.774	3.10	26.10	191.8	.421
200	8.62	33.996	2.43	26.41	162.3	.511
250	7.76	34.076	2.09	26.61	144.1	.589
300	7.24	34.102	1.82	26.70	135.1	.661
400	6.67	34.217	.78	26.87	119.1	.794
500	5.98	34.286	.41	27.01	105.4	.912

93.60 CALCOFI CRUISE 6612 93.60

DAVID STARR JORDAN, DECEMBER 2 1966, 2256 GMT, 31 55N 119 37W, SOUNDING 1260 FM, WIND 240 FORCE 3, WEATHER DRIZZLE, SEA ROUGH, WIRE ANGLE 21.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	17.23	33.731	5.66	-	-	-	343.6
9	17.15	33.722	5.68	-	-	-	342.5
28	17.06	33.704	5.69	-	-	-	341.8
38	17.06K	33.70 G	-	-	-	-	342.1
38	17.08	33.712	5.69	-	-	-	341.6
51	15.35	33.581	5.49	-	-	-	313.6
64	11.80	33.509	4.38	-	-	-	250.1
75	10.85K	33.54 G	-	-	-	-	231.4
89	10.50	33.632	3.69	-	-	-	218.7
107	9.95	33.764	3.23	-	-	-	200.0
125	9.60	33.853	2.99	-	-	-	187.9
144	9.22	33.940	2.69	-	-	-	175.5
171	8.85	34.010	2.47	-	-	-	164.8
201	8.26	34.045	2.55	-	-	-	153.5
227	7.96	34.082	2.12	-	-	-	146.5
272	7.59	34.125	1.66	-	-	-	138.2
322	7.10	34.175	1.09	-	-	-	127.9
401	6.41	34.209	.69	-	-	-	116.5
480	5.90	34.303	.33	-	-	-	103.2
562	5.48	34.345	.29	-	-	-	95.2

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	17.23	33.731	5.66	24.51	343.6	0
10	17.14	33.721	5.68	24.52	342.3	.034
20	17.08	33.714	5.69	24.53	341.5	.069
30	17.06	33.700	5.70	24.52	342.1	.103
50	15.55	33.593	5.53	24.79	317.0	.169
75	10.85	33.540	3.96	25.69	231.4	.238
100	10.16	33.714	3.39	25.94	207.1	.293
125	9.60	33.853	2.99	26.14	187.9	.343
150	9.14	33.960	2.62	26.30	172.8	.389
200	8.28	34.044	2.55	26.50	153.9	.472
250	7.76	34.106	1.87	26.63	142.0	.548
300	7.32	34.154	1.33	26.73	132.3	.619
400	6.42	34.209	.69	26.90	116.6	.748
500	5.79	34.318	.32	27.06	100.7	.863

93.70 CALCOFI CRUISE 6612 93.70

DAVID STARR JORDAN, DECEMBER 3 1966, 0429 GMT, 31 30N 120 12W, SOUNDING 2200 FM, WIND 230 FORCE 4, WEATHER MISSING, SEA MISSING, WIRE ANGLE 18.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.98	33.325	5.70	-	-	-	367.6
9	16.91	33.322	5.64	-	-	-	366.3
28	16.93	33.323	5.69	-	-	-	366.6
57	16.70	33.322	5.69	-	-	-	361.6
66	16.19	33.331	5.77	-	-	-	349.8
81	14.29	33.230	5.90	-	-	-	317.6
96	13.03	33.184	5.88	-	-	-	296.5
110	12.18	33.225	5.58	-	-	-	277.8
133	10.64	33.428	4.61	-	-	-	236.1
153	9.96	33.621	4.17	-	-	-	210.8
180	9.14	33.865	3.28	-	-	-	179.9
208	8.64	33.989	2.84	-	-	-	163.2
236	8.27	34.049	2.41	-	-	-	153.4
282	7.81	34.117	1.69	-	-	-	141.8
333	7.32	34.169	1.25	-	-	-	131.2
414	6.80	34.231	.72	-	-	-	119.8
496	6.24	34.283	.41	-	-	-	108.8
578	5.80	34.336	.26	-	-	-	99.6

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.98	33.325	5.70	24.26	367.6	0
10	16.91	33.322	5.64	24.27	366.3	.037
20	16.92	33.322	5.66	24.27	366.4	.073
30	16.92	33.322	5.69	24.27	366.5	.110
50	16.78	33.320	5.68	24.30	363.4	.183
75	15.09	33.276	5.86	24.64	330.5	.271
100	12.77	33.188	5.82	25.06	291.4	.349
125	11.14	33.347	4.95	25.48	250.5	.417
150	10.04	33.592	4.23	25.87	214.2	.476
200	8.76	33.964	2.94	26.37	166.8	.573
250	8.12	34.073	2.18	26.55	149.4	.654
300	7.63	34.137	1.51	26.67	137.8	.728
400	6.88	34.222	.80	26.84	121.5	.863
500	6.22	34.286	.40	26.98	108.4	.985

	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
93.80					CALCOFI CRUISE 6612									93.80
DAVID STARR JORDAN, DECEMBER 3 1966, 0944 GMT, 31 08N 12C 54W, SOUNDING 2200 FM, WIND 210 FORCE 5, WEATHER CLOUDY, SEA MISSING, WIRE ANGLE 12.														
1	17.25	33.335	5.63	-	-	-	372.9	0	17.25	33.335	5.63	24.20	372.9	0
11	17.24	33.333	5.74	-	-	-	372.9	10	17.25	33.333	5.73	24.20	373.1	.037
20	17.08K	33.34 G	-	-	-	-	368.7	20	17.08	33.340	5.75	24.24	368.7	.074
30	17.03K	33.34 G	-	-	-	-	367.6	30	17.03	33.340	5.75	24.26	367.6	.111
50	17.01	33.338	5.73	-	-	-	367.3	50	17.01	33.338	5.73	24.26	367.3	.185
83	14.58	33.250	6.07	-	-	-	321.9	75	15.33	33.271	6.02	24.59	335.8	.273
103	12.86	33.250	5.81	-	-	-	288.4	100	13.09	33.244	5.87	25.04	293.2	.353
117	12.22	33.332	5.53	-	-	-	270.6	125	11.67	33.364	5.27	25.40	258.5	.422
137	10.86	33.425	4.86	-	-	-	240.0	150	10.30	33.550	4.52	25.79	221.5	.483
156	10.10	33.614	4.35	-	-	-	213.5	200	8.88	33.916	3.61	26.31	172.2	.583
176	9.48	33.786	3.56	-	-	-	191.0	250	8.19	34.042	2.67	26.51	152.8	.666
204	8.80	33.931	3.64	-	-	-	169.9	300	7.43	34.054	2.41	26.64	141.2	.742
233	8.42	34.014	3.00	-	-	-	158.1	400	6.31	34.113	1.61	26.83	122.4	.879
258	8.08	34.050	2.55	-	-	-	150.6	500	5.75	34.215	.78	26.99	108.0	1.000
293	7.55	34.056	2.45	-	-	-	142.8	600	5.33	34.284	.44	27.09	98.1	1.110
337	6.83	34.051	2.16	-	-	-	133.6							
392	6.37	34.104	1.69	-	-	-	123.8							
474	5.86	34.196	.94	-	-	-	110.8							
564	5.48	34.260	.51	-	-	-	101.5							
639	5.18	34.309	.44	-	-	-	94.5							
93.90					CALCOFI CRUISE 6612									93.90
DAVID STARR JORDAN, DECEMBER 3 1966, 1534 GMT, 30 48N 121 34W, SOUNDING 2200 FM, WIND 230 FORCE 4, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 23.														
0	17.62	33.442	-	-	-	-	373.6	0	17.62	33.442		24.19	373.6	0
10	17.62	33.452	-	-	-	-	372.8	10	17.62	33.452		24.20	372.8	.037
29	17.65	33.441	-	-	-	-	374.3	20	17.64	33.448		24.19	373.5	.075
56	17.64	33.443	-	-	-	-	374.0	30	17.65	33.447		24.19	373.9	.112
65	15.96	33.297	-	-	-	-	347.3	50	17.64	33.470		24.21	372.1	.187
78	13.96	33.169	-	-	-	-	315.5	75	14.38	33.193		24.73	322.1	.274
98	11.74	33.092	-	-	-	-	279.7	100	11.58	33.086		25.20	277.3	.350
93.100					CALCOFI CRUISE 6612									93.100
DAVID STARR JORDAN, DECEMBER 3 1966, 2026 GMT, 30 33N 122 11W, SOUNDING 2300 FM, WIND 210 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 28.														
0	17.71	33.417	5.63	-	-	-	377.5	0	17.71	33.417	5.63	24.15	377.5	0
8	17.71	33.416	5.60	-	-	-	377.5	10	17.71	33.416	5.60	24.15	377.5	.038
31	17.68	33.416	5.70A	-	-	-	376.8	20	17.70	33.415	5.63	24.15	377.3	.076
50	17.54K	33.42 G	-	-	-	-	373.3	30	17.68	33.416	5.69	24.16	376.9	.113
56	17.44	33.420	5.96A	-	-	-	371.1	50	17.54	33.420	5.89	24.20	373.3	.189
65	15.98	33.344	6.07	-	-	-	344.3	75	14.68	33.292	6.08	24.75	320.8	.276
83	13.90	33.273	6.06	-	-	-	306.7	100	13.42	33.360	5.88	25.06	291.0	.353
95	13.22	33.282	5.96	-	-	-	292.9	125	11.52	33.446	5.01	25.49	249.7	.421
100	13.42K	33.36 G	-	-	-	-	291.0	150	9.97	33.673	3.94	25.94	207.1	.479
109	13.06	33.434	5.67	-	-	-	278.7	200	9.15	33.908	4.07	26.26	176.9	.577
132	10.80	33.451	4.67	-	-	-	237.1	250	8.19	34.009	3.47	26.49	155.2	.662
148	10.04	33.653	3.95	-	-	-	209.7	300	7.40	34.029	2.78	26.62	142.7	.739
170	9.48	33.822	4.12	-	-	-	188.3	400	6.31	34.101	1.43	26.83	123.2	.877
198	9.19	33.901	4.07	-	-	-	178.0	500	5.58	34.209	.64	27.00	106.5	.997
222	8.72	33.975	3.95	-	-	-	165.4							
266	7.91	34.016	3.16	-	-	-	150.7							
323	7.10	34.037	2.56	-	-	-	138.1							
413	6.20	34.115	1.25	-	-	-	120.9							
491	5.64	34.200	.68	-	-	-	107.9							
568	5.22	34.275	.46	-	-	-	97.5							

A1 OXYGEN SAMPLES FOR 31 AND 56 METERS APPEAR TO HAVE BEEN REVERSED.
THEY ARE ASSUMED TO BE IN THE CORRECT ORDER.

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	C*T	Z	T	S	OXY	SIG*T	C*T	DD
93.110					CALCOFI CRUISE 6612								93.110	
DAVID STARR JORDAN, DECEMBER 4 1966, 0202 GMT, 30 09.5N 122 55W, SOUNDING 1950 FM, WIND 240 FORCE 4, WEATHER RAIN, SEA VERY ROUGH, WIRE ANGLE 17.														
1	17.62	33.354	5.66	-	-	-	380.0	0	17.62	33.354	5.66	24.13	380.0	0
10	17.60	33.353	5.62	-	-	-	379.6	10	17.60	33.353	5.62	24.13	379.6	.038
20	17.60K	33.35 G	-	-	-	-	379.8	20	17.60	33.350	5.63	24.13	379.8	.076
30	17.60K	33.35 G	-	-	-	-	379.8	30	17.60	33.350	5.64	24.13	379.8	.114
34	17.60	33.353	5.67	-	-	-	379.6	50	17.60	33.350	6.13	24.13	379.8	.190
50	17.60K	33.35 G	-	-	-	-	379.8	75	13.09	33.192	5.95	25.00	297.1	.275
62	14.68	33.223	6.31	-	-	-	325.9	100	11.86	33.317	5.38	25.33	265.2	.346
72	13.34	33.183	6.03	-	-	-	302.4	125	10.42	33.499	4.49	25.73	227.2	.408
91	12.24	33.284	5.55	-	-	-	274.5	150	9.84	33.757	4.41	26.03	198.8	.462
106	11.58	33.342	5.23	-	-	-	258.5	200	8.88	33.950	3.24	26.34	169.7	.556
120	10.62	33.445	4.59	-	-	-	234.5	250	8.01	34.019	3.27	26.52	151.9	.638
149	9.86	33.750	4.40	-	-	-	199.6	300	7.31	34.090	2.09	26.68	137.0	.713
167	9.54	33.857	4.45	-	-	-	186.6	400	6.69	34.205	.98	26.86	120.4	.847
196	8.96	33.940	3.27	-	-	-	171.6	500	5.69	34.233	.78	27.01	106.0	.966
229	8.36	34.007	3.32	-	-	-	157.8	600	5.13	34.304	.46	27.13	94.3	1.073
260	7.85	34.023	3.18	-	-	-	149.3							
305	7.26	34.100	1.93	-	-	-	135.6							
369	7.02	34.204	1.14	-	-	-	124.6							
466	5.93	34.206	.84	-	-	-	110.8							
554	5.36	34.273	.63A	-	-	-	99.2							
628	5.02	34.322	.33A	-	-	-	91.7							
93.120					CALCOFI CRUISE 6612								93.120	
DAVID STARR JORDAN, DECEMBER 4 1966, 0706 GMT, 29 49.5N 123 33.5W, SOUNDING 2200 FM, WIND 230 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 25.														
0	17.88	33.483	5.62	-	-	-	376.6	0	17.88	33.483	5.62	24.16	376.6	0
8	17.89	33.480	5.60	-	-	-	377.0	10	17.89	33.480	5.60	24.16	377.1	.038
20	17.90K	33.48 G	-	-	-	-	377.3	20	17.90	33.480	5.59	24.15	377.3	.075
31	17.90	33.481	5.60	-	-	-	377.2	30	17.90	33.481	5.60	24.15	377.2	.113
50	17.90K	33.48 G	-	-	-	-	377.3	50	17.90	33.480	5.65	24.15	377.3	.189
57	17.39	33.367	5.67	-	-	-	373.8	75	14.20	33.277	6.14	24.84	312.4	.276
66	15.52	33.369	6.15	-	-	-	332.7	100	12.84	33.190	6.03	25.04	292.5	.352
75	-	-	6.14G	-	-	-	-	125	12.54	33.480	5.38	25.33	265.5	.422
85	13.29	33.171	6.12	-	-	-	302.4	150	10.83	33.585	4.85	25.72	227.8	.485
99	12.84	33.183	6.06	-	-	-	293.0	200	8.94	33.923	4.01	26.31	172.5	.566
100	12.84K	33.19 G	-	-	-	-	292.5	250	8.21	34.009	3.72	26.49	155.4	.670
111	13.27	33.460	5.69	-	-	-	280.8	300	7.31	34.033	2.72	26.64	141.2	.747
137	11.52	33.511	5.15	-	-	-	245.0	400	6.28	34.103	1.38	26.83	122.8	.884
154	10.64	33.613	4.75	-	-	-	222.4	500	5.59	34.201	.58	26.99	107.2	1.005
178	9.50	33.807	4.21	-	-	-	189.7							
206	8.84	33.945	4.00	-	-	-	169.4							
231	8.56	34.001	4.09	-	-	-	161.1							
272	7.76	34.018	3.16	-	-	-	148.5							
327	6.94	34.049	2.36	-	-	-	135.2							
415	6.18	34.116	1.21	-	-	-	120.6							
495	5.62	34.196	.61	-	-	-	107.9							
564	5.35	34.272	.39	-	-	-	99.2							
93.130					CALCOFI CRUISE 6612								93.130	
DAVID STARR JORDAN, DECEMBER 4 1966, 1215 GMT, 29 28.5N 124 11.5W, SOUNDING 2450 FM, WIND 250 FORCE 5, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 28.														
1	18.48	33.761	5.54	-	-	-	370.4	0	18.48	33.761	5.54	24.23	370.4	0
9	18.49	33.774	5.49	-	-	-	369.7	10	18.52	33.787	5.49	24.24	369.4	.037
20	18.80K	33.92 G	-	-	-	-	366.5	20	18.80	33.920	5.47	24.27	366.5	.074
31	18.86	33.943	5.49	-	-	-	366.2	30	18.86	33.941	5.49	24.27	366.3	.111
40	18.88	33.957	5.51	-	-	-	365.7	50	18.85	33.961	5.59	24.29	364.6	.184
53	18.83	33.958	5.64	-	-	-	364.4	75	16.62	33.890	6.01	24.77	318.4	.270
67	16.90	33.886	6.04	-	-	-	324.9	100	16.00	34.000	5.65	25.00	296.7	.347
75	16.62K	33.89 G	-	-	-	-	318.4	125	15.71	34.203	5.52	25.22	275.7	.420
89	16.20	33.912	5.79	-	-	-	307.6	150	13.90	34.034	5.24	25.48	250.8	.487
106	15.92	34.059	5.59	-	-	-	290.8	200	10.14	33.810	4.62	26.02	199.7	.601
124	15.75	34.203	5.53	-	-	-	276.6	250	9.07	33.969	4.24	26.32	171.1	.696
148	14.12	34.063	5.25	-	-	-	253.1	300	8.13	34.011	3.68	26.50	154.2	.780
173	11.40	33.741	5.06	-	-	-	225.9	400	6.63	34.041	2.31	26.74	131.7	.928
207	9.99	33.860	4.51	-	-	-	193.6	500	5.67	34.119	1.14	26.92	114.2	1.057
231	9.47	33.929	4.39	-	-	-	180.2							
272	8.63	34.001	4.02	-	-	-	162.2							
330	7.64	34.020	3.28	-	-	-	146.7							
416	6.43	34.048	2.09	-	-	-	128.8							
498	5.68	34.117	1.16	-	-	-	114.6							
568	5.26	34.196	.75	-	-	-	103.8							

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

94.139

CALCOFI CRUISE 6612

94.139

DAVID STARR JORDAN, DECEMBER 4 1966, 1712 GMT, 29 09N 124 47W, SOUNDING 2300 FM, WIND 220 FORCE 4, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 28.

INPUT Z	T	S	OXY	PHO	SIL	NIT	O*T
0	19.02	34.017	5.44	-	-	-	364.7
8	19.02	34.020	5.47	-	-	-	364.5
30	19.02	34.018	5.49	-	-	-	364.6
50	19.02K	33.02 G	-	-	-	-	437.1
56	19.02	34.021	5.50	-	-	-	364.4
65	18.64	34.014	5.63	-	-	-	355.8
75	16.92K	33.93 G	-	-	-	-	322.2
85	16.42	33.928	5.86	-	-	-	311.2
98	16.14	34.027	5.85	-	-	-	297.9
110	15.76	34.053	5.71	-	-	-	287.8
135	15.20	34.139	5.36	-	-	-	269.6
152	14.40	34.145	5.23	-	-	-	252.7
177	12.00	33.880	4.72	-	-	-	226.3
210	10.49	33.918	4.38	-	-	-	197.4
235	10.04	34.040	4.84	-	-	-	181.0
277	8.98	34.047	3.52	-	-	-	164.0
333	8.20	34.089	2.98	-	-	-	149.4
420	6.46	34.033	2.32	-	-	-	130.2
499	5.72	34.109	1.22	-	-	-	115.6
567	5.34	34.183	.93	-	-	-	105.7

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	CC
0	19.02	34.017	5.44	24.29	364.7	C
10	19.02	34.020	5.47	24.29	364.5	.036
20	19.02	34.020	5.48	24.29	364.5	.073
30	19.02	34.018	5.49	24.29	364.6	.110
50	19.02	33.020	5.50	23.53	437.1	.150
75	16.92	33.930	5.77	24.73	322.2	.285
100	16.08	34.033	5.83	25.01	296.1	.363
125	15.45	34.108	5.49	25.20	277.2	.436
150	14.52	34.148	5.25	25.44	254.9	.503
200	10.79	33.876	4.41	25.96	205.6	.621
250	9.66	34.041	4.47	26.28	174.9	.718
300	8.63	34.066	3.21	26.47	157.4	.804
400	6.85	34.046	2.49	26.71	134.2	.955
500	5.71	34.110	1.21	26.91	115.5	1.086

96.31

CALCOFI CRUISE 6612

96.31

ALEXANDER AGASSIZ, DECEMBER 2 1966, 2315 GMT, 32 24N 117 20W, SOUNDING 390 FM, WIND 250 FORCE 2, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 08.A)

INPUT Z	T	S	OXY	PHO	SIL	NIT	O*T
0	16.13	33.458	5.89	-	-	-	339.2
10	15.82	33.447	5.95	-	-	-	333.3
20	15.43	33.433	5.91	-	-	-	326.1
30	14.55	33.401	5.77	-	-	-	310.3
40	13.32	33.377	5.44	-	-	-	287.8
50	12.44	33.399	5.07	-	-	-	269.7
60	11.98	33.451	4.69	-	-	-	257.5
70	11.70	33.550	4.32	-	-	-	245.3
80	11.32	33.566	4.13	-	-	-	237.5
89	11.00	33.601	4.01	-	-	-	229.4
99	10.83	33.645	4.01	-	-	-	223.3
109	10.69	33.684	3.72	-	-	-	218.0
119	10.32	33.713	3.64	-	-	-	209.8
129	9.92	33.766	3.65	-	-	-	199.4
139	9.96	33.883	-	-	-	-	191.4
149	9.99	33.966	2.86	-	-	-	185.7
159	9.90	33.994	2.82	-	-	-	182.2
168	-	34.030	2.65	-	-	-	-

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	CC
0	16.13	33.458	5.89	24.55	339.2	0
10	15.82	33.447	5.95	24.61	333.3	.034
20	15.43	33.433	5.91	24.69	326.1	.067
30	14.55	33.401	5.77	24.86	310.3	.099
50	12.44	33.399	5.07	25.28	269.7	.157
75	11.51	33.557	4.21	25.58	241.5	.221
100	10.82	33.649	3.98	25.78	222.8	.280
125	10.06	33.740	3.66	25.98	203.5	.333
150	9.99	33.968	2.86	26.17	185.5	.383

97.35

CALCOFI CRUISE 6612

97.35

ALEXANDER AGASSIZ, DECEMBER 3 1966, 0449 GMT, 32 05.5N 117 28W, SOUNDING 658 FM, WIND 220 FORCE 2, WEATHER MISSING, SEA MISSING, WIRE ANGLE 07.

INPUT Z	T	S	OXY	PHO	SIL	NIT	O*T
0	17.08	33.537	5.57	-	-	-	354.4
10	17.04	33.537	5.66	-	-	-	353.5
30	16.78	33.503	5.63	-	-	-	350.2
40	14.93	33.320	5.82	-	-	-	323.9
50	13.23	33.184	5.53	-	-	-	300.3
65	12.28	33.163	5.45	-	-	-	284.2
80	11.50	33.314	5.09	-	-	-	259.2
99	10.37	33.499	-	-	-	-	226.4
124	9.84	33.753	3.72	-	-	-	199.1
144	9.86	33.955	2.91	-	-	-	184.4
173	9.36	34.056	2.57	-	-	-	169.1
203	8.52	34.019	2.80	-	-	-	159.2
233	8.30	34.071	2.45	-	-	-	152.2
273	7.82	34.076	2.26	-	-	-	145.0
333	7.17	34.101	1.89	-	-	-	134.3
407	6.94	34.253	.72	-	-	-	119.9
482	6.39	34.287	.47	-	-	-	110.4
562	6.04	34.272	1.05U	-	-	-	107.2

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	CC
0	17.08	33.537	5.57	24.39	354.4	0
10	17.04	33.537	5.66	24.40	353.5	.035
20	16.93	33.523	5.63	24.42	352.0	.071
30	16.78	33.503	5.63	24.44	350.2	.106
50	13.23	33.184	5.53	24.96	300.3	.171
75	11.76	33.254	5.23	25.30	268.1	.243
100	10.33	33.509	4.53	25.75	225.1	.305
125	9.84	33.764	3.68	26.04	198.2	.358
150	9.79	33.991	2.78	26.22	180.8	.406
200	8.60	34.024	2.78	26.44	160.0	.493
250	8.11	34.073	2.35	26.55	149.3	.572
300	7.50	34.081	2.13	26.65	140.2	.647
400	6.97	34.238	.79	26.84	121.4	.783
500	6.29	34.288	.42	26.97	109.1	.905

A) SHAKEDOWN STATION.

97.40 CALCOFI CRUISE 6612 97.40

ALEXANDER AGASSIZ, DECEMBER 3 1966, 0847 GMT, 31 56N 117 48W, SOUNDING 714 FM, WIND 240 FORCE 3, WEATHER OVERCAST, SEA MODERATE, WIRE ANGLE 08.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.96	33.499	5.72	-	-	-	354.5
10	16.93	33.499	5.70	-	-	-	353.8
20	16.94K	33.50 G	-	-	-	-	353.9
30	16.94	33.501	5.71	-	-	-	353.9
40	15.38	33.515U	6.23	-	-	-	319.0
50	14.42	33.289	5.92	-	-	-	315.8
64	12.89	33.241	5.79	-	-	-	289.7
79	12.05	33.199	5.44	-	-	-	277.4
99	10.89	33.336	4.56	-	-	-	247.1
123	9.94	33.451	3.90	-	-	-	223.0
143	9.62	33.634	3.56	-	-	-	204.4
172	9.14	33.757	3.27	-	-	-	187.9
201	8.58	33.915	3.17	-	-	-	167.8
231	8.26	33.992	2.89	-	-	-	157.5
271	7.80	34.026	2.42	-	-	-	148.4
329	7.12	34.067	1.74	-	-	-	136.2
403	6.66	34.110	.87	-	-	-	127.0
478	6.12	34.212	.65	-	-	-	112.7
558	5.79	34.298	.46	-	-	-	102.3

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	16.96	33.499	5.72	24.39	354.5	0
10	16.93	33.499	5.70	24.40	353.8	.035
20	16.94	33.500	5.70	24.40	353.9	.071
30	16.94	33.501	5.71	24.40	353.9	.106
50	14.42	33.289	5.92	24.80	315.8	.174
75	12.23	33.204	5.56	25.17	280.3	.248
100	10.84	33.340	4.53	25.53	245.9	.315
125	9.90	33.469	3.86	25.80	221.0	.374
150	9.51	33.670	3.47	26.02	200.0	.427
200	8.60	33.910	3.17	26.35	168.5	.521
250	8.04	34.013	2.67	26.51	152.8	.603
300	7.44	34.048	2.08	26.63	141.9	.679
400	6.67	34.108	.90	26.78	127.4	.819
500	6.00	34.238	.59	26.97	109.3	.943

97.50 CALCOFI CRUISE 6612 97.50

ALEXANDER AGASSIZ, DECEMBER 3 1966, 1520 GMT, 31 33N 118 30.5W, SOUNDING 1300 FM, WIND 230 FORCE 4, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 18.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	17.70	33.507	5.64	-	-	-	370.7
9	17.69	33.504	5.58	-	-	-	370.7
20	17.70K	-	-	-	-	-	-
31	17.70	33.503	5.57	-	-	-	371.0
58	15.21	33.331	-	-	-	-	328.9
68	14.96	33.317	5.98	-	-	-	324.8
77	14.16	33.379	6.12	-	-	-	304.0
95	13.73	33.473	5.57	-	-	-	288.7
109	12.62	33.497	5.15	-	-	-	265.8
132	11.74	33.590	4.57	-	-	-	243.0
150	10.94	33.684	4.20	-	-	-	222.2
177	9.92	33.913	3.38	-	-	-	188.5
204	9.05	33.951	3.62	-	-	-	172.1
231	8.59	34.011	3.21	-	-	-	160.8
278	8.10	34.064	2.54	-	-	-	149.8
328	7.42	34.135	1.62	-	-	-	135.1
407	6.79	34.219	.83	-	-	-	120.5
488	6.28	34.263	.55	-	-	-	110.8
569	5.82	34.304	.41	-	-	-	102.2

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	17.70	33.507	5.64	24.22	370.7	0
10	17.69	33.504	5.58	24.22	370.7	.037
20	17.70	33.503	5.56	24.22	370.9	.074
30	17.71	33.503	5.57	24.22	371.2	.111
50	15.99	33.382	5.73	24.53	341.8	.183
75	14.34	33.363	6.10	24.87	308.9	.265
100	13.35	33.483	5.42	25.17	280.6	.339
125	11.95	33.557	4.73	25.50	249.3	.406
150	10.94	33.684	4.20	25.78	222.2	.466
200	9.16	33.945	3.57	26.29	174.3	.567
250	8.38	34.036	2.95	26.48	155.9	.651
300	7.80	34.095	2.13	26.61	143.2	.728
400	6.83	34.213	.87	26.84	121.5	.866
500	6.21	34.269	.52	26.97	109.5	.988

97.60 CALCOFI CRUISE 6612 97.60

ALEXANDER AGASSIZ, DECEMBER 3 1966, 2127 GMT, 31 14N 119 08.5W, SOUNDING 1960 FM, WIND 220 FORCE 4, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 30.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
1	17.86	33.481	5.53	-	-	-	376.3
9	17.82	33.482	5.54	-	-	-	375.3
27	17.82	33.482	5.55	-	-	-	375.3
52	17.72	33.463	5.57	-	-	-	374.3
61	16.10	33.348	5.93	-	-	-	346.6
74	14.92	33.335	6.01	-	-	-	322.6
86	14.04	33.362	6.02	-	-	-	302.9
98	13.38	33.447	5.53	-	-	-	283.8
116	12.25	33.485	5.02	-	-	-	259.9
132	11.30	33.686	3.74	-	-	-	228.3
154	10.54	33.854	3.18	-	-	-	203.0
178	10.09	33.950	2.95	-	-	-	188.5
201	9.87	34.012	2.77	-	-	-	180.4
241	8.93	34.099	2.58	-	-	-	159.4
286	8.00	34.077	2.49	-	-	-	147.4
356	7.40	34.168	1.43	-	-	-	132.4
430	6.72	34.250	.73	-	-	-	117.3
506	6.12	34.266	.60	-	-	-	108.6

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	17.86	33.481	5.53	24.16	376.3	0
10	17.82	33.482	5.54	24.18	375.2	.038
20	17.82	33.483	5.55	24.18	375.1	.075
30	17.81	33.480	5.55	24.18	375.2	.113
50	17.73	33.473	5.57	24.19	373.8	.188
75	14.84	33.335	6.02	24.75	320.9	.275
100	13.26	33.454	5.49	25.16	281.0	.351
125	11.69	33.592	4.30	25.57	242.0	.417
150	10.64	33.831	3.26	25.95	206.4	.474
200	9.88	34.010	2.78	26.22	180.7	.572
250	8.72	34.097	2.56	26.48	156.4	.659
300	7.84	34.090	2.31	26.60	144.3	.737
400	6.98	34.225	.95	26.83	122.6	.876
500	6.16	34.265	.61	26.97	109.3	.998

97.70 CALCOFI CRUISE 6612 97.70

ALEXANDER AGASSIZ, DECEMBER 4 1966, 0429 GMT, 30 55N 119 50.5W, SOUNDING 1920 FM, WIND 230 FORCE 4, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 12.

INPUT Z	T	S	OXY	PHO	STL	NIT	O*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	DC
0	18.19	33.585	5.48	-	-	-	376.4	0	18.19	33.585	5.48	24.16	376.4	0
10	18.18	33.583	5.48	-	-	-	376.3	10	18.18	33.583	5.48	24.16	376.3	.038
35	17.59	33.487	5.59	-	-	-	369.6	20	17.94	33.544	5.53	24.19	373.6	.075
44	17.58	33.485	5.57	-	-	-	369.5	30	17.71	33.506	5.57	24.22	370.9	.112
59	15.65	33.354	5.98	-	-	-	336.5	50	16.91	33.430	5.74	24.35	358.4	.186
74	14.43	33.427	5.74	-	-	-	305.9	75	14.32	33.431	5.69	24.93	303.4	.269
98	11.98	33.532	4.53	-	-	-	251.6	100	11.85	33.542	4.45	25.51	248.5	.338
118	10.90	33.646	3.89	-	-	-	224.4	125	10.57	33.702	3.80	25.86	214.7	.397
137	10.10	33.799	3.70	-	-	-	199.8	150	9.81	33.686	3.47	26.14	188.7	.448
167	9.56	33.969	3.19	-	-	-	178.7	200	9.08	34.025	3.08	26.36	167.1	.539
197	9.10	34.014	3.14	-	-	-	168.2	250	8.42	34.122	2.26	26.54	150.1	.620
237	8.73	34.132	2.28	-	-	-	153.9	300	7.74	34.129	1.91	26.65	139.9	.695
266	8.04	34.103	2.23	-	-	-	146.1	400	6.96	34.243	.83	26.85	121.0	.831
316	7.67	34.151	1.71	-	-	-	137.3	500	6.29	34.295	.51	26.98	108.6	.952
379	7.04	34.216	.98	-	-	-	124.0	600	5.31	34.291	.44	27.10	97.3	1.062
480	6.63	34.314	.52	-	-	-	111.4							
570	5.48	34.276	.47	-	-	-	100.3							
644	5.25	34.338	.39	-	-	-	93.1							

97.80 CALCOFI CRUISE 6612 97.80

ALEXANDER AGASSIZ, DECEMBER 4 1966, 1015 GMT, 30 34N 120 32.5W, SOUNDING 2024 FM, WIND 250 FORCE 5, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 14.

INPUT Z	T	S	OXY	PHO	STL	NIT	O*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	DC
0	17.88	33.540	5.56	-	-	-	372.4	0	17.88	33.540	5.56	24.20	372.4	0
10	17.88	33.538	5.51	-	-	-	372.6	10	17.88	33.538	5.51	24.20	372.6	.037
20	17.88K	-	-	-	-	-	-	20	17.88	33.538	5.51	24.20	372.6	.075
30	17.88K	-	-	-	-	-	-	30	17.88	33.537	5.52	24.20	372.6	.112
35	17.88	33.537	5.53	-	-	-	372.6	50	16.30	33.437	5.72	24.50	344.4	.184
64	14.72	33.349	5.97	-	-	-	317.5	75	14.65	33.343	6.16	24.79	316.4	.267
74	14.69	33.342	6.17	-	-	-	317.4	100	12.88	33.417	5.26	25.21	276.5	.342
94	13.34	33.382	5.56	-	-	-	287.8	125	11.24	33.659	3.96	25.71	229.3	.405
109	12.20	33.488	4.77	-	-	-	258.8	150	10.83	33.831	3.20	25.92	209.6	.461
124	11.27	33.650	4.00	-	-	-	230.4	200	9.37	33.979	3.20	26.28	175.0	.559
154	10.76	33.850	3.14	-	-	-	206.9	250	8.46	34.079	2.54	26.50	153.9	.643
173	10.23	33.932	3.10	-	-	-	192.1	300	7.77	34.127	1.92	26.64	140.4	.719
203	9.28	33.982	3.20	-	-	-	173.4	400	6.72	34.213	.99	26.86	120.1	.855
237	8.69	34.062	2.68	-	-	-	158.5	500	6.16	34.304	.51	27.00	106.3	.974
267	8.17	34.095	2.37	-	-	-	148.5	600	5.67	34.362	.41	27.11	96.1	1.083
316	7.60	34.142	1.71	-	-	-	137.0							
380	6.89	34.196	1.15	-	-	-	123.5							
479	6.20	34.279	.54	-	-	-	108.7							
569	5.88	34.358	.43	-	-	-	98.9							
642	5.30	34.368	.39	-	-	-	91.4							

100.30 CALCOFI CRUISE 6612 100.30

ALEXANDER AGASSIZ, DECEMBER 5 1966, 2110 GMT, 31 40.5N 116 46.5W, SOUNDING 220 FM, WIND 170 FORCE 3, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 29.

INPUT Z	T	S	OXY	PHO	STL	NIT	O*T	OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	O*T	DC
1	14.69	33.364	6.08	-	-	-	315.8	0	14.69	33.364	6.08	24.80	315.8	0
9	-	33.364	6.11	-	-	-	-	10	14.50	33.350	6.08	24.83	313.0	.031
10	14.50K	33.35 G	-	-	-	-	313.0	20	13.65	33.430	5.74	25.07	290.3	.062
20	13.65K	33.43 G	-	-	-	-	290.3	30	13.60	33.444	5.35	25.09	288.2	.091
27	13.65	33.439	5.43	-	-	-	289.6	50	13.07	33.492	4.74	25.23	274.6	.147
40	13.33	33.466	5.10	-	-	-	281.5	75	12.21	33.607	3.70	25.49	250.3	.213
53	12.98	33.503	4.61	-	-	-	272.1	100	11.80	33.680	3.45	25.62	237.5	.275
66	12.38	33.581	3.82	-	-	-	255.2	125	11.17	33.786	3.12	25.82	218.6	.332
80	12.16	33.617	3.64	-	-	-	248.6	150	10.47	33.902	2.89	26.03	198.4	.385
96	11.90	33.662	3.51	-	-	-	240.6	200	9.29	34.107	2.22	26.39	164.2	.478
118	11.32	33.767	3.17	-	-	-	222.6	250	8.79	34.158	1.87	26.51	152.8	.559
143	10.75	33.846	3.04	-	-	-	207.1	300	8.25	34.191	1.54	26.62	142.6	.635
175	9.56	34.088	2.33	-	-	-	169.9							
205	9.24	34.111	2.20	-	-	-	163.2							
240	8.88	34.148	1.95	-	-	-	155.0							
280	8.48	34.181	1.66	-	-	-	146.6							
317	8.04	34.195	1.45	-	-	-	139.2							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
100.35					CALCOFI CRUISE 6612								100.35	

ALEXANDER AGASSIZ, DECEMBER 5 1966, 1755 GMT, 31 28N 117 08W, SOUNDING 524 FM, WIND 200 FORCE 3, WEATHER OVERCAST, SEA ROUGH, WIRE ANGLE 13.

0	17.12	33.518	5.66	-	-	-	356.7	0	17.12	33.518	5.66	24.37	356.7	0
10	17.10	33.516	5.65	-	-	-	356.4	10	17.10	33.516	5.65	24.37	356.4	.036
29	15.92	33.513	5.87	-	-	-	330.6	20	16.87	33.514	5.77	24.43	351.3	.071
38	13.71	33.238	5.83	-	-	-	305.5	30	15.67	33.482	5.87	24.67	327.7	.105
53	12.36	33.198	5.62	-	-	-	283.0	50	12.49	33.199	5.68	25.12	285.4	.167
68	11.50	33.332	5.11	-	-	-	257.8	75	11.48	33.406	4.81	25.47	252.0	.234
92	11.42	33.565	4.18	-	-	-	239.3	100	11.25	33.606	4.03	25.67	233.3	.295
111	10.94	33.657	3.87	-	-	-	224.2	125	10.45	33.760	3.57	25.93	208.4	.351
131	10.24	33.806	3.45	-	-	-	201.6	150	9.82	33.926	3.18	26.16	186.0	.401
150	9.82	33.926	3.18	-	-	-	186.0	200	9.20	34.100	2.52	26.40	163.4	.490
180	9.50	34.048	2.76	-	-	-	171.9	250	8.93	34.239	1.73	26.55	148.9	.570
213	9.04	34.132	2.35	-	-	-	158.6	300	8.06	34.208	1.49	26.66	138.6	.645
242	9.04	34.237	1.80	-	-	-	150.8	400	6.99	34.236	.90	26.84	121.9	.781
291	8.18	34.206	1.55	-	-	-	140.4	500	6.28	34.291	.54	26.98	108.8	.903
345	7.56	34.226	1.19	-	-	-	130.2	600	5.77	34.347	.41	27.09	98.4	1.013
427	6.75	34.243	.78	-	-	-	118.2							
511	6.22	34.298	.51	-	-	-	107.5							
594	5.80	34.344	.42	-	-	-	99.0							

100.40					CALCOFI CRUISE 6612								100.40	

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

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

100.50					CALCOFI CRUISE 6612								100.50	

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

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

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
100.60					CALCOFI CRUISE 6612								100.60	
ALEXANDER AGASSIZ, DECEMBER 5 1966, 0333 GMT, 30 38N 118 47W, SOUNDING 1660 FM, WIND 230 FORCE 4, WEATHER MISSING, SEA ROUGH, WIRE ANGLE 17.														
0	17.94	33.553	5.51	-	-	-	372.9	0	17.94	33.553	5.51	24.20	372.9	0
9	17.92	33.552	5.52	-	-	-	372.5	10	17.92	33.552	5.52	24.20	372.5	.037
28	17.90	33.547	5.52	-	-	-	372.4	20	17.91	33.549	5.51	24.21	372.4	.075
30	17.89K	-	-	-	-	-	-	30	17.89	33.550	5.57	24.19	373.4	.112
58	14.66	33.318	6.02	-	-	-	318.6	50	15.89	33.375	5.94	24.54	340.1	.184
67	13.57	33.319	5.83	-	-	-	296.9	75	12.78	33.355	5.45	25.18	279.2	.261
81	12.32	33.402	5.09	-	-	-	267.3	100	11.70	33.613	3.89	25.59	240.7	.327
95	11.62	33.571	4.14	-	-	-	245.9	125	11.31	33.802	2.82	25.81	219.8	.385
110	11.52	33.684	3.47	-	-	-	232.2	150	11.09	33.929	2.13	25.95	206.8	.439
133	11.22	33.858	2.53	-	-	-	214.2	200	10.43	34.048	2.09	26.16	186.8	.539
152	11.08	33.935	2.10	-	-	-	206.1	250	10.01	34.177	1.94	26.33	170.4	.631
180	10.82	33.996	1.93	-	-	-	197.2	300	9.56	34.304	1.36	26.50	153.9	.715
208	10.28	34.069	2.16	-	-	-	182.8	400	7.92	34.267	1.05	26.73	132.2	.865
236	10.12	34.137	2.06	-	-	-	175.2	500	6.99	34.303	.57	26.89	117.0	.996
283	9.71	34.267	1.57	-	-	-	159.8	600	5.99	34.332	.50	27.05	102.1	1.114
334	9.20	34.349	1.00	-	-	-	144.9							
415	7.63	34.242	1.09	-	-	-	130.0							
497	7.02	34.301	.58	-	-	-	117.4							
580	6.21	34.330	.51	-	-	-	105.0							
100.70					CALCOFI CRUISE 6612								100.70	
ALEXANDER AGASSIZ, DECEMBER 4 1966, 2105 GMT, 30 20N 119 27.5W, SOUNDING 2058 FM, WIND 220 FORCE 3, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 21.														
0	17.42	33.332	5.60	-	-	-	377.0	0	17.42	33.332	5.60	24.16	377.0	0
10	17.36	33.326	5.58	-	-	-	376.1	10	17.36	33.326	5.58	24.17	376.1	.038
28	17.34	33.330	5.65	-	-	-	375.3	20	17.35	33.328	5.61	24.17	375.7	.075
30	17.33K	-	-	-	-	-	-	30	17.33	33.329	5.66	24.18	375.2	.113
56	16.44	33.305	5.87	-	-	-	357.1	50	16.82	33.312	5.81	24.28	365.0	.187
65	15.54	33.297	6.00	-	-	-	338.3	75	14.77	33.393	6.00	24.80	315.4	.273
79	14.48	33.429	5.98	-	-	-	306.8	100	12.71	33.402	5.29	25.23	274.4	.347
93	13.21	33.353	5.69	-	-	-	287.5	125	11.19	33.596	4.18	25.67	233.0	.411
106	12.32	33.462	4.91	-	-	-	262.9	150	10.17	33.825	3.47	26.03	199.1	.466
128	11.04	33.619	4.09	-	-	-	228.7	200	8.86	33.975	3.39	26.36	167.5	.559
145	10.36	33.794	3.50	-	-	-	204.4	250	8.23	34.045	2.80	26.51	153.0	.641
171	9.49	33.906	3.54	-	-	-	182.2	300	7.38	34.063	2.28	26.65	139.9	.717
197	8.89	33.969	3.42	-	-	-	168.4	400	6.41	34.163	1.03	26.86	120.0	.852
223	8.68	34.017	3.11	-	-	-	161.7	500	5.85	34.254	.55	27.00	106.3	.971
267	7.90	34.055	2.61	-	-	-	147.7							
317	7.14	34.068	2.10	-	-	-	136.4							
394	6.46	34.159	1.07	-	-	-	120.8							
473	5.96	34.224	.65	-	-	-	109.9							
553	5.72	34.326	.40	-	-	-	99.4							
100.80					CALCOFI CRUISE 6612								100.80	
ALEXANDER AGASSIZ, DECEMBER 4 1966, 1525 GMT, 29 58.5N 120 11W, SOUNDING 2000 FM, WIND 220 FORCE 3, WEATHER OVERCAST, SEA VERY ROUGH, WIRE ANGLE 11.														
0	17.36	33.392	5.58	-	-	-	371.3	0	17.36	33.392	5.58	24.22	371.3	0
10	17.34	33.392	5.58	-	-	-	370.8	10	17.34	33.392	5.58	24.22	370.8	.037
30	17.12	33.369	5.64	-	-	-	367.5	20	17.25	33.384	5.59	24.24	369.3	.074
60	14.32	33.290	6.06	-	-	-	313.8	30	17.12	33.369	5.64	24.26	367.5	.111
70	13.05	33.219	5.76	-	-	-	294.3	50	15.50	33.330	6.01	24.60	335.1	.182
84	12.15	33.275	5.42	-	-	-	273.6	75	12.67	33.228	5.64	25.11	286.5	.260
99	11.22	33.342	5.02	-	-	-	252.3	100	11.16	33.349	4.98	25.48	250.6	.327
114	10.34	33.460	-	-	-	-	228.8	125	9.94	33.565	4.07	25.86	214.7	.386
138	9.64	33.682	3.65	-	-	-	201.2	150	9.43	33.759	3.48	26.10	192.3	.438
157	9.34	33.796	3.42	-	-	-	188.1	200	8.79	33.952	3.16	26.35	168.1	.529
186	8.98	33.907	3.20	-	-	-	174.4	250	7.90	34.047	2.52	26.56	148.2	.610
215	8.55	33.992	3.13	-	-	-	161.7	300	7.42	34.101	1.81	26.67	137.6	.684
245	7.96	34.041	2.60	-	-	-	149.5	400	6.45	34.170	.98	26.86	119.8	.818
294	7.48	34.095	1.89	-	-	-	138.9	500	5.75	34.261	.52	27.02	104.6	.936
348	6.95	34.145	1.29	-	-	-	128.1	600	5.31	34.334	.34	27.13	94.1	1.042
431	6.18	34.186	.85	-	-	-	115.4							
515	5.67	34.275	.47	-	-	-	102.6							
598	5.32	34.333	.34	-	-	-	94.3							
103.30					CALCOFI CRUISE 6612								103.30	
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0316 GMT, 31 06N 116 24.5W, SOUNDING 25 FM, WIND 180 FORCE 3, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 07.														
0	14.86	33.376	5.93	-	-	-	318.4	0	14.86	33.376	5.93	24.77	318.4	0
10	14.70	33.383	5.95	-	-	-	314.6	10	14.70	33.383	5.95	24.81	314.6	.032
20	14.60	33.394	5.90	-	-	-	311.8	20	14.60	33.394	5.90	24.84	311.8	.063
30	13.84	33.456	5.57	-	-	-	292.1	30	13.84	33.456	5.57	25.05	292.1	.093
40	13.60	33.475	4.99	-	-	-	286.0							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
103.35					CALCOFI CRUISE 6612								103.35	
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0630 GMT, 30 55.5N 116 45W, SOUNDING 986 FM, WIND 200 FORCE 3, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 25.														
0	16.44	33.459	5.85	-	-	-	345.9	0	16.44	33.459	5.85	24.48	345.9	0
9	16.45	33.459	5.76	-	-	-	346.1	10	16.45	33.456	5.77	24.48	346.3	.035
10	16.45K	-	-	-	-	-	-	20	15.10	33.430	5.88	24.76	319.4	.068
20	15.10K	33.43 G	-	-	-	-	319.4	30	14.96	33.430	5.87	24.79	316.5	.100
27	15.00	33.428	5.93	-	-	-	317.5	50	13.17	33.394	5.60	25.14	283.7	.160
30	14.96K	33.43 G	-	-	-	-	316.5	75	11.58	33.466	4.57	25.50	249.4	.227
36	14.50	33.399	5.74	-	-	-	309.4	100	10.43	33.642	4.20	25.84	216.8	.286
50	13.17	33.394	5.60	-	-	-	283.7	125	10.13	33.858	3.35	26.06	195.9	.338
63	12.45	33.377	5.10	-	-	-	271.5	150	9.52	33.976	3.08	26.25	177.5	.385
84	10.98	33.553	4.25	-	-	-	232.6	200	9.38	34.185	2.14	26.44	159.8	.471
102	10.39	33.654	4.17	-	-	-	215.3	250	9.68	34.406	.86	26.56	148.2	.551
119	10.26	33.815	3.46	-	-	-	201.3	300	9.21	34.414	.92	26.65	140.2	.626
136	9.84	33.922	3.23	-	-	-	186.6	400	7.47	34.294	.65	26.82	124.0	.764
160	9.34	34.006	2.97	-	-	-	172.5	500	6.39	34.295	.54	26.97	109.8	.888
190	9.18	34.102	2.59	-	-	-	162.9							
216	9.72	34.319	1.38	-	-	-	155.3							
259	9.59	34.421	.77	-	-	-	145.7							
306	9.13	34.408	.96	-	-	-	139.5							
382	7.73	34.301	.66	-	-	-	127.0							
461	6.74	34.286	.59	-	-	-	114.9							
545	6.10	34.319	.46	-	-	-	104.4							
103.40					CALCOFI CRUISE 6612								103.40	
ALEXANDER AGASSIZ, DECEMBER 6 1966, 0958 GMT, 30 46N 117 04.5W, SOUNDING 960 FM, WIND 240 FORCE 4, WEATHER DRIZZLE, SEA MODERATE, WIRE ANGLE 18.														
1	17.12	33.570	5.65	-	-	-	352.9	0	17.12	33.570	5.65	24.41	352.9	0
11	17.12	33.566	5.64	-	-	-	353.2	10	17.13	33.567	5.64	24.41	353.2	.035
34	16.67	33.526	5.70	-	-	-	346.0	20	16.99	33.554	5.66	24.43	351.1	.071
43	14.44	33.435	5.69	-	-	-	305.5	30	16.78	33.544	5.69	24.47	347.1	.106
57	11.97	33.461	4.77	-	-	-	256.6	50	13.01	33.432	5.27	25.20	277.9	.168
71	11.34	33.537	4.33	-	-	-	239.9	75	11.20	33.561	4.23	25.64	235.8	.233
95	10.58	33.692	3.79	-	-	-	215.6	100	10.41	33.733	3.66	25.91	209.7	.289
114	9.96	33.839	3.34	-	-	-	194.6	125	9.70	33.885	3.20	26.15	187.0	.339
132	9.55	33.907	3.14	-	-	-	183.1	150	9.19	33.982	2.97	26.31	172.0	.385
161	9.02	34.020	2.87	-	-	-	166.6	200	8.67	34.065	2.56	26.46	158.0	.469
189	8.82	34.051	2.62	-	-	-	161.3	250	7.82	34.080	2.34	26.60	144.6	.547
226	8.24	34.087	2.46	-	-	-	150.1	300	7.63	34.179	1.47	26.70	134.7	.619
255	7.74	34.080	2.30	-	-	-	143.6	400	6.66	34.233	.81	26.88	117.8	.750
302	7.62	34.184	1.43	-	-	-	134.2	500	6.16	34.308	.44	27.01	105.9	.868
364	6.88	34.202	1.02	-	-	-	123.0	600	5.63	34.358	.36	27.11	96.0	.977
460	6.40	34.289	.53	-	-	-	110.4							
548	5.89	34.332	.37	-	-	-	100.9							
620	5.54	34.368	.35	-	-	-	94.1							
103.50					CALCOFI CRUISE 6612								103.50	
ALEXANDER AGASSIZ, DECEMBER 6 1966, 1551 GMT, 30 27.5N 117 44W, SOUNDING 1506 FM, WIND 220 FORCE 3, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 25.														
0	17.11	33.489	5.72	-	-	-	358.6	0	17.11	33.489	5.72	24.35	358.6	0
9	17.09	33.489	5.72	-	-	-	358.1	10	17.09	33.491	5.72	24.36	357.9	.036
28	17.02	33.528	5.71	-	-	-	353.7	20	17.05	33.514	5.71	24.38	355.5	.072
36	16.88	33.519	5.73	-	-	-	351.2	30	16.99	33.526	5.71	24.41	353.1	.107
51	13.98	33.249	5.93	-	-	-	310.0	50	14.20	33.268	5.92	24.83	313.0	.174
63	12.94	33.219	5.76	-	-	-	292.2	75	12.18	33.226	5.55	25.20	277.6	.248
85	11.66	33.245	5.30	-	-	-	267.1	100	10.93	33.439	4.66	25.59	240.1	.313
102	10.85	33.470	4.57	-	-	-	236.5	125	10.48	33.762	3.63	25.92	208.9	.370
120	10.56	33.703	3.88	-	-	-	214.5	150	9.96	33.923	3.04	26.14	188.5	.420
136	10.30	33.868	3.14	-	-	-	198.0	200	9.25	34.056	2.60	26.36	167.4	.511
162	9.68	33.943	2.96	-	-	-	182.5	250	8.83	34.141	2.25	26.49	154.8	.594
193	9.32	34.040	2.67	-	-	-	169.7	300	8.00	34.155	1.77	26.63	141.7	.670
219	9.08	34.094	2.42	-	-	-	162.0	400	6.86	34.232	.85	26.85	120.5	.807
263	8.70	34.153	2.18	-	-	-	151.9	500	6.01	34.280	.46	27.00	106.3	.927
312	7.76	34.155	1.63	-	-	-	138.3	600	5.28	34.307	.37	27.11	95.8	1.035
389	6.96	34.225	.92	-	-	-	122.3							
468	6.27	34.267	.54	-	-	-	110.4							
549	5.64	34.296	.43	-	-	-	100.7							

CALCOFI CRUISE 6612

103.60

ALEXANDER AGASSIZ, DECEMBER 6 1966, 2159 GMT, 30 05N 118 23.5W, SOUNDING 1836 FM, WIND 220 FORCE 4, WEATHER CLOUDY, SEA ROUGH, WIRE ANGLE 32.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
2	17.97	33.507	5.59	-	-	-	376.9
10	17.94	33.505	5.53	-	-	-	376.4
27	17.76	33.471	5.50	-	-	-	374.7
53	17.30	33.460	5.63	-	-	-	365.0
62	15.94	33.336	5.91	-	-	-	344.0
75	14.62	33.364	5.89	-	-	-	314.4
87	13.68	33.347	6.16	-	-	-	296.9
99	12.77	33.400	5.36	-	-	-	275.7
119	11.37	-	4.45	-	-	-	-
134	11.09	33.624	4.02	-	-	-	229.2
156	10.63	33.818	3.17	-	-	-	207.1
177	9.96	33.938	3.05	-	-	-	187.3
200	9.76	34.041	2.75	-	-	-	176.5
236	9.54	34.202	1.95	-	-	-	161.1
279	9.13	34.239	1.67	-	-	-	152.0
348	8.08	34.246	1.31	-	-	-	136.0
421	6.83	34.192	1.04	-	-	-	123.1
500	6.56	34.307	.49	-	-	-	111.0

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	17.97	33.507	5.59	24.16	376.9	0
10	17.94	33.505	5.53	24.16	376.4	.038
20	17.85	33.486	5.51	24.17	375.6	.075
30	17.72	33.469	5.51	24.19	373.9	.113
50	17.49	33.461	5.58	24.24	369.2	.187
75	14.62	33.364	5.89	24.81	314.4	.273
100	12.68	33.405	5.30	25.24	273.8	.347
125	11.22	33.556	4.27	25.63	236.4	.412
150	10.77	33.767	3.38	25.88	213.3	.469
200	9.76	34.041	2.75	26.26	176.5	.568
250	9.43	34.225	1.82	26.46	157.6	.654
300	8.84	34.244	1.55	26.57	147.3	.733
400	7.09	34.192	1.14	26.79	126.5	.876
500	6.56	34.307	.49	26.95	111.0	1.001

103.60

CALCOFI CRUISE 6612

103.70

ALEXANDER AGASSIZ, DECEMBER 7 1966, 0458 GMT, 29 44.5N 119 05.5W, SOUNDING 1900 FM, WIND 240 FORCE 4, WEATHER MISSING, SEA VERY ROUGH, WIRE ANGLE 22.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
2	18.42	33.631	5.44	-	-	-	378.4
11	18.40	33.633	5.46	-	-	-	377.8
20	18.40K	33.63 G	-	-	-	-	378.0
30	18.40K	33.63 G	-	-	-	-	378.0
34	17.98	33.567	5.52	-	-	-	372.8
43	17.48	33.506	5.70	-	-	-	365.7
57	16.14	33.491	5.44	-	-	-	337.0
71	14.98	33.456	5.63	-	-	-	315.0
94	13.66	33.496	5.06	-	-	-	285.6
113	12.73	33.602	4.31	-	-	-	260.1
131	11.92	33.697	4.12	-	-	-	238.4
158	10.44	33.778	3.58	-	-	-	206.9
184	9.72	33.887	3.33	-	-	-	187.3
220	9.11	34.052	2.79	-	-	-	165.6
247	8.64	34.096	2.39	-	-	-	155.3
292	7.82	34.132	1.89	-	-	-	140.8
352	7.19	34.149	1.43	-	-	-	131.0
444	6.40	34.252	.64	-	-	-	113.1
529	5.90	34.314	.38	-	-	-	102.4
600	5.62	34.348	.33	-	-	-	96.6

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	18.42	33.631	5.44	24.14	378.4	0
10	18.40	33.633	5.46	24.15	377.8	.038
20	18.40	33.630	5.48	24.15	378.0	.076
30	18.40	33.630	5.49	24.15	378.0	.114
50	16.84	33.499	5.58	24.42	351.8	.187
75	14.72	33.455	5.58	24.86	309.7	.270
100	13.35	33.526	4.81	25.20	277.5	.344
125	12.19	33.667	4.16	25.54	245.5	.410
150	10.86	33.756	3.74	25.85	215.5	.468
200	9.42	33.967	3.10	26.26	176.7	.568
250	8.58	34.099	2.35	26.50	154.1	.653
300	7.72	34.135	1.82	26.66	139.2	.729
400	6.75	34.199	.99	26.84	121.5	.864
500	6.05	34.295	.44	27.01	105.6	.984
600	5.62	34.348	.33	27.11	96.6	1.092

103.70

CALCOFI CRUISE 6612

103.80

ALEXANDER AGASSIZ, DECEMBER 7 1966, 1200 GMT, 29 23N 119 44.5W, SOUNDING 1900 FM, WIND 330 FORCE 5, WEATHER CLOUDY, SEA HIGH, WIRE ANGLE 23.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	18.03	33.482	5.52	-	-	-	380.1
9	18.03	33.481	5.51	-	-	-	380.2
20	18.04K	-	-	-	-	-	-
30	18.04K	-	-	-	-	-	-
33	18.05	33.488	5.52	-	-	-	380.2
61	17.16	33.657	5.91	-	-	-	347.4
70	16.27	33.654	5.94	-	-	-	327.9
89	15.29	33.711	5.72	-	-	-	302.8
102	14.50	33.675	5.68	-	-	-	289.2
116	13.69	33.668	5.40	-	-	-	273.6
144	12.26	33.670	5.02	-	-	-	246.5
162	11.22	33.745	4.70	-	-	-	222.5
189	10.18	33.828	4.31	-	-	-	199.0
221	9.36	33.978	4.41	-	-	-	174.9
249	8.76	34.033	4.15	-	-	-	161.7
294	7.88	34.020	3.03	-	-	-	150.0
355	6.89	34.052	2.09	-	-	-	134.3
449	6.24	34.173	.96	-	-	-	117.1
534	5.76	34.258	.51	-	-	-	104.9
605	5.36	34.315	.41	-	-	-	96.1

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	18.03	33.482	5.52	24.12	380.1	0
10	18.03	33.481	5.51	24.12	380.2	.038
20	18.04	33.483	5.51	24.12	380.3	.076
30	18.04	33.487	5.52	24.13	380.0	.114
50	17.79	33.596	5.76	24.27	366.1	.189
75	15.96	33.671	5.89	24.75	320.0	.275
100	14.62	33.682	5.69	25.06	291.2	.352
125	13.23	33.667	5.27	25.34	264.7	.423
150	11.90	33.693	4.91	25.61	238.4	.486
200	9.86	33.882	4.33	26.12	189.9	.595
250	8.74	34.033	4.13	26.42	161.4	.685
300	7.77	34.021	2.92	26.56	148.3	.765
400	6.50	34.106	1.48	26.80	125.3	.907
500	5.95	34.226	.65	26.97	109.6	1.031
600	5.39	34.311	.42	27.11	96.6	1.141

107.32 CALCOFI CRUISE 6612 107.32

ALEXANDER AGASSIZ, DECEMBER 9 1966, 0003 GMT, 30 26N 116 10.5W, SOUNDING 220 FM, WIND 320 FORCE 5, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 27.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	15.68	33.443	5.89	-	-	-	330.6
9	15.70	33.440	5.88	-	-	-	331.3
10	15.70K	-	-	-	-	-	-
20	15.53K	33.43 G	-	-	-	-	328.4
26	14.04	33.361	5.59	-	-	-	303.0
30	13.30K	33.43 G	-	-	-	-	283.5
39	12.61	33.462	4.81	-	-	-	268.2
48	11.90	33.570	3.97	-	-	-	247.4
61	11.86	33.643	3.47	-	-	-	241.3
73	11.27	33.701	3.64	-	-	-	226.6
85	10.78	33.806	3.57	-	-	-	210.5
106	10.34	33.936	2.95	-	-	-	193.6
122	10.20	33.977	2.79	-	-	-	188.3
146	10.08	34.091	2.47	-	-	-	177.9
168	9.99	34.182	1.99	-	-	-	169.7
193	9.96	34.252	1.61	-	-	-	164.1
234	9.45	34.285	1.39	-	-	-	153.5
272	9.20	34.309	1.22	-	-	-	147.9

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	15.68	33.443	5.89	24.64	330.6	0
10	15.70	33.439	5.87	24.64	331.3	.033
20	15.53	33.430	5.76	24.67	328.4	.066
30	13.30	33.430	5.40	25.14	283.5	.097
50	11.89	33.585	3.84	25.53	246.2	.150
75	11.18	33.718	3.64	25.77	223.8	.209
100	10.42	33.907	3.14	26.05	197.2	.262
125	10.18	33.990	2.76	26.15	187.0	.311
150	10.06	34.109	2.38	26.27	176.3	.357
200	9.86	34.258	1.57	26.42	161.9	.443
250	9.32	34.296	1.31	26.54	150.7	.524

107.35 CALCOFI CRUISE 6612 107.35

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

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
1	16.26	33.484	5.80	-	-	-	340.1
10	16.24	33.482	5.84	-	-	-	339.8
33	16.10	33.473	5.84	-	-	-	337.4
60	12.65	33.289	5.54	-	-	-	281.7
70	12.56	33.348	5.22	-	-	-	275.7
75	12.52K	33.37 G	-	-	-	-	273.3
87	11.32	33.487	4.58	-	-	-	243.3
100	10.80	33.634	4.12	-	-	-	223.6
113	10.56	33.740	3.60	-	-	-	211.7
138	10.48	34.000	2.59	-	-	-	191.2
154	10.49	34.092	2.23	-	-	-	184.6
179	10.21	34.205	1.89	-	-	-	171.6
208	9.71	34.217	1.89	-	-	-	162.7
232	8.90	34.183	1.96	-	-	-	152.7
273	8.44	34.249	1.37	-	-	-	141.0
329	7.77	34.248	1.15	-	-	-	131.5
417	6.92	34.258	.84	-	-	-	119.3
502	6.12	34.305	.45	-	-	-	105.7
575	5.92	34.345	.39	-	-	-	100.3

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	16.26	33.484	5.80	24.54	340.1	0
10	16.24	33.482	5.84	24.55	339.8	.034
20	16.19	33.478	5.86	24.56	338.9	.068
30	16.12	33.478	5.85	24.57	337.5	.102
50	13.86	33.339	5.72	24.95	301.1	.166
75	12.52	33.370	5.04	25.25	273.3	.238
100	10.80	33.634	4.12	25.77	223.6	.301
125	10.51	33.869	3.08	26.00	201.4	.355
150	10.49	34.072	2.30	26.16	186.0	.404
200	9.88	34.217	1.86	26.38	165.5	.493
250	8.63	34.206	1.73	26.58	146.9	.574
300	8.11	34.255	1.22	26.69	135.8	.647
400	7.07	34.254	.90	26.84	121.6	.781
500	6.13	34.304	.46	27.01	106.0	.902

107.40 CALCOFI CRUISE 6612 107.40

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

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
2	17.23	33.465	5.58	-	-	-	363.0
10	17.24	33.463	5.57	-	-	-	363.4
30	17.23	33.460	5.62	-	-	-	363.4
54	15.29	33.338	5.99	-	-	-	330.1
62	14.30	33.271	5.92	-	-	-	314.8
77	13.32	33.323	5.19	-	-	-	291.8
89	12.34	33.438	5.08	-	-	-	265.0
101	11.96	33.505	4.87	-	-	-	253.2
124	10.52	33.663	4.30	-	-	-	216.8
138	10.01	33.719	4.01	-	-	-	204.3
159	9.27	33.868	3.54	-	-	-	181.7
183	9.06	34.029	3.00	-	-	-	166.5
205	9.07	34.106	2.55	-	-	-	161.0
241	9.20	34.257	1.53	-	-	-	151.7
291	8.76	34.286	1.15	-	-	-	142.9
370	7.16	34.205	1.06	-	-	-	126.4
445	6.89	34.304	.54	-	-	-	115.5
509	6.29	34.318	.38	-	-	-	106.8

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	17.23	33.465	5.58	24.30	363.0	0
10	17.24	33.463	5.57	24.30	363.4	.036
20	17.24	33.461	5.59	24.30	363.5	.073
30	17.23	33.460	5.62	24.30	363.4	.109
50	15.74	33.367	5.95	24.57	337.5	.179
75	13.43	33.306	5.29	25.02	295.0	.259
100	11.99	33.500	4.89	25.45	254.0	.328
125	10.48	33.667	4.28	25.85	215.8	.387
150	9.55	33.800	3.74	26.11	191.1	.439
200	9.06	34.091	2.66	26.42	161.9	.529
250	9.16	34.272	1.41	26.54	150.1	.609
300	8.57	34.276	1.12	26.64	140.9	.684
400	7.11	34.255	.81	26.84	122.0	.822
500	6.39	34.316	.39	26.98	108.3	.943

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
107.50					CALCOFI CRUISE 6612								107.50	
ALEXANDER AGASSIZ, DECEMBER 8 1966, 1107 GMT, 29 51N 117 22W, SOUNDING 1290 FM, WIND 310 FORCE 5, WEATHER MISSING, SEA HIGH, WIRE ANGLE 35.														
1	17.63	33.511	5.48	-	-	-	368.8	0	17.63	33.511	5.48	24.24	368.8	0
9	17.64	33.507	5.42	-	-	-	369.3	10	17.64	33.508	5.41	24.24	369.2	.037
20	17.64K	-	-	-	-	-	-	20	17.64	33.512	5.38	24.24	368.9	.074
27	17.65	33.510	5.38	-	-	-	369.3	30	17.62	33.498	5.42	24.24	369.5	.111
30	17.62K	-	-	-	-	-	-	50	15.86	33.410	5.75	24.58	336.9	.182
48	16.15	33.415	5.72	-	-	-	342.8	75	13.35	33.320	5.56	25.04	292.5	.261
55	15.14	33.396	5.82	-	-	-	322.7	100	12.16	33.384	5.10	25.33	265.7	.331
69	13.86	33.317	5.69	-	-	-	302.7	125	11.19	33.565	4.25	25.65	235.2	.394
80	12.99	33.331	5.46	-	-	-	284.9	150	10.49	33.817	3.26	25.96	204.9	.450
90	12.62	33.344	5.35	-	-	-	277.1	200	9.58	34.005	2.80	26.27	176.4	.547
111	11.66	33.452	4.74	-	-	-	251.8	250	9.06	34.175	2.02	26.48	155.7	.632
124	11.22	33.553	4.31	-	-	-	236.7	300	8.32	34.199	1.51	26.62	142.9	.710
144	10.64	33.784	3.29	-	-	-	209.8	400	7.04	34.228	.92	26.83	123.2	.848
166	10.13	33.869	3.17	-	-	-	195.1	500	6.38	34.312	.44	26.98	108.5	.971
187	9.70	33.933	2.98	-	-	-	183.5							
219	9.46	34.109	2.50	-	-	-	166.7							
265	8.84	34.187	1.81	-	-	-	151.5							
342	7.72	34.213	1.26	-	-	-	133.4							
420	6.86	34.239	.81	-	-	-	119.9							
490	6.42	34.300	.48	-	-	-	109.8							
107.60					CALCOFI CRUISE 6612								107.60	
ALEXANDER AGASSIZ, DECEMBER 8 1966, 0432 GMT, 29 31N 118 02W, SOUNDING 1930 FM, WIND 330 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 23.														
1	18.31	33.654	5.43	-	-	-	374.2	0	18.31	33.654	5.43	24.19	374.2	0
10	18.32	33.653	5.49	-	-	-	374.5	10	18.32	33.653	5.49	24.18	374.5	.037
20	18.33K	-	-	-	-	-	-	20	18.33	33.652	5.52	24.18	374.7	.075
30	18.34K	-	-	-	-	-	-	30	18.34	33.652	5.52	24.18	375.0	.113
34	18.35	33.652	5.53	-	-	-	375.2	50	18.20	33.640	5.57	24.20	372.6	.188
50	18.20K	33.64 G	-	-	-	-	372.6	75	15.34	33.435	5.70	24.71	324.1	.275
61	17.81	33.590	5.60	-	-	-	367.2	100	13.46	33.533	4.90	25.18	279.1	.351
70	15.97	33.452	5.73	-	-	-	336.2	125	11.26	33.635	4.08	25.69	231.3	.416
90	14.14	33.469	5.34	-	-	-	297.1	150	10.85	33.941	2.82	26.00	201.7	.470
103	13.24	33.550	4.77	-	-	-	273.6	200	9.59	34.044	2.81	26.29	173.6	.566
117	11.61	33.538	4.59	-	-	-	244.6	250	8.93	34.181	1.93	26.51	153.4	.650
145	10.98	33.914	2.83	-	-	-	205.9	300	8.08	34.194	1.63	26.65	139.9	.726
164	10.47	33.983	2.81	-	-	-	192.3	400	7.20	34.280	.76	26.84	121.4	.862
191	9.76	34.024	2.87	-	-	-	177.7	500	6.41	34.335	.46	27.00	107.0	.983
225	9.22	34.109	2.48	-	-	-	163.0	600	5.83	34.377	.37	27.10	96.8	1.092
253	8.90	34.188	1.87	-	-	-	152.3							
300	8.08	34.194	1.63	-	-	-	139.9							
361	7.54	34.253	.96	-	-	-	128.0							
457	6.74	34.311	.61	-	-	-	113.0							
541	6.14	34.355	.38	-	-	-	102.2							
616	5.76	34.382	.39	-	-	-	95.7							
107.70					CALCOFI CRUISE 6612								107.70	
ALEXANDER AGASSIZ, DECEMBER 7 1966, 2222 GMT, 29 11.5N 118 41W, SOUNDING 1960 FM, WIND 340 FORCE 5, WEATHER CLOUDY, SEA VERY ROUGH, WIRE ANGLE 20.														
1	18.34	33.649	5.48	-	-	-	375.2	0	18.34	33.649	5.48	24.18	375.2	0
10	18.34	33.647	5.49	-	-	-	375.4	10	18.34	33.647	5.49	24.17	375.4	.038
20	18.35K	-	-	-	-	-	-	20	18.35	33.646	5.47	24.17	375.7	.075
30	18.35K	-	-	-	-	-	-	30	18.35	33.645	5.47	24.17	375.7	.113
33	18.36	33.645	5.47	-	-	-	376.0	50	17.00	33.490	5.73	24.38	356.0	.186
50	17.00K	33.49 G	-	-	-	-	356.0	75	13.51	33.397	5.45	25.07	289.9	.267
61	15.08	33.359	5.85	-	-	-	324.2	100	11.93	33.652	4.21	25.58	242.0	.334
70	13.92	33.349	5.76	-	-	-	301.5	125	11.19	33.818	3.59	25.84	216.6	.392
89	12.66	33.574	4.49	-	-	-	260.9	150	10.25	33.923	3.28	26.09	193.2	.444
104	11.72	33.676	4.14	-	-	-	236.3	200	9.34	34.062	2.71	26.35	168.3	.537
118	11.46	33.779	3.73	-	-	-	224.2	250	8.45	34.125	2.38	26.54	150.3	.618
146	10.35	33.908	3.31	-	-	-	195.9	300	7.74	34.131	1.85	26.65	139.8	.693
165	9.97	33.973	3.15	-	-	-	184.9	400	6.49	34.152	1.12	26.84	121.7	.829
193	9.52	34.056	2.72	-	-	-	171.6	500	6.14	34.295	.50	27.00	106.7	.950
226	8.70	34.077	2.68	-	-	-	157.6	600	5.62	34.361	.30	27.12	95.6	1.058
254	8.42	34.133	2.32	-	-	-	149.3							
300	7.74	34.131	1.85	-	-	-	139.8							
361	6.80	34.115	1.50	-	-	-	128.4							
456	6.24	34.231	.61	-	-	-	112.7							
542	5.97	34.336	.41	-	-	-	101.6							
614	5.52	34.362	.28	-	-	-	94.4							

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

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
110.50					CALCOFI CRUISE 6612								110.50	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 1543 GMT, 29 16N 116 59W, SOUNDING 1710 FM, WIND 010 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 08.														
0	17.26	33.467	5.61	-	-	-	363.5	0	17.26	33.467	5.61	24.30	363.5	0
10	17.26	33.467	5.65	-	-	-	363.5	10	17.26	33.467	5.65	24.30	363.5	.036
20	17.27K	-	-	-	-	-	-	20	17.27	33.466	5.65	24.29	363.8	.073
30	17.28	33.465	5.65	-	-	-	364.1	30	17.28	33.465	5.65	24.29	364.1	.109
60	16.31	33.422	5.82	-	-	-	345.7	50	16.87	33.436	5.73	24.37	357.0	.182
70	15.38	33.418	5.98	-	-	-	326.1	75	14.92	33.384	5.97	24.77	319.0	.267
85	13.99	33.321	5.87	-	-	-	304.9	100	12.60	33.366	5.41	25.23	275.0	.341
101	12.52	33.375	5.36	-	-	-	272.9	125	11.96	33.758	3.44	25.65	234.5	.406
116	12.10	33.608	3.98	-	-	-	248.1	150	11.68	33.969	2.36	25.87	214.0	.463
141	11.78	33.961	2.74	-	-	-	216.4	200	10.88	34.145	1.78	26.15	187.2	.565
161	11.54	33.985	2.00	-	-	-	210.4	250	10.09	34.341	1.41	26.44	159.7	.654
191	11.04	34.110	1.79	-	-	-	192.5	300	9.32	34.401	.76	26.62	142.9	.733
221	10.52	34.225	1.77	-	-	-	175.2	400	7.39	34.262	.93	26.80	125.2	.873
251	10.08	34.344	1.39	-	-	-	159.2	500	6.28	34.264	.60	26.96	110.8	.997
301	9.30	34.401	.75	-	-	-	142.6	600	5.64	34.336	.43	27.09	97.8	1.109
356	8.13	34.287	1.00	-	-	-	133.7							
441	6.84	34.249	.77	-	-	-	118.9							
526	6.08	34.277	.54	-	-	-	107.3							
610	5.60	34.346	.42	-	-	-	96.5							
110.60					CALCOFI CRUISE 6612								110.60	
ALEXANDER AGASSIZ, DECEMBER 9 1966, 2121 GMT, 28 56.5N 117 38.5W, SOUNDING 1900 FM, WIND 350 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 04.														
0	18.26	33.646	5.53	-	-	-	373.6	0	18.26	33.646	5.53	24.19	373.6	0
10	18.06	33.641	5.50	-	-	-	369.3	10	18.06	33.641	5.50	24.24	369.3	.037
30	18.02	33.634	5.47	-	-	-	368.8	20	18.04	33.637	5.47	24.24	369.0	.074
39	18.02	33.634	5.50	-	-	-	368.8	30	18.02	33.634	5.47	24.24	368.8	.111
54	16.32	33.486	5.55	-	-	-	341.3	50	16.89	33.528	5.54	24.43	350.8	.183
69	14.36	33.469	5.52	-	-	-	301.4	75	13.71	33.511	5.13	25.12	285.5	.263
94	12.08	33.673	3.80	-	-	-	243.0	100	11.64	33.697	3.70	25.67	233.3	.329
114	11.00	33.743	3.56	-	-	-	218.9	125	11.10	33.920	3.13	25.94	207.6	.384
125	11.10K	33.92 G	-	-	-	-	207.6	150	10.68	34.062	2.41	26.12	190.0	.435
134	10.85	33.974	2.76	-	-	-	199.3	200	9.31	34.117	2.46	26.40	163.8	.525
154	10.65	34.081	2.36	-	-	-	188.0	250	8.66	34.221	1.64	26.58	146.3	.605
183	9.80	34.142	2.31	-	-	-	169.6	300	8.51	34.323	.90	26.69	136.4	.678
221	8.84	34.100	2.48	-	-	-	157.9	400	7.40	34.307	.66	26.84	122.0	.813
247	8.67	34.210	1.71	-	-	-	147.2	500	6.49	34.327	.42	26.98	108.7	.935
297	8.54	34.323	.91	-	-	-	136.9	600	5.71	34.347	.33	27.09	97.7	1.046
352	7.82	34.291	.86	-	-	-	129.0							
445	7.05	34.331	.47	-	-	-	115.6							
521	6.30	34.328	.40	-	-	-	106.2							
605	5.68	34.349	.33	-	-	-	97.2							
110.70					CALCOFI CRUISE 6612								110.70	
ALEXANDER AGASSIZ, DECEMBER 10 1966, 0246 GMT, 28 36N 118 18W, SOUNDING 1910 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 18.														
0	18.33	33.687	5.63	-	-	-	372.2	0	18.33	33.687	5.63	24.21	372.2	0
10	18.34	33.685	5.46	-	-	-	372.6	10	18.34	33.685	5.46	24.20	372.6	.037
20	18.34K	33.68 G	-	-	-	-	373.0	20	18.34	33.680	5.45	24.20	373.0	.075
30	18.34	33.686	5.45	-	-	-	372.5	30	18.34	33.686	5.45	24.20	372.5	.112
58	15.77	33.480	5.56	-	-	-	329.8	50	16.80	33.543	5.58	24.46	347.8	.184
67	14.50	33.465	5.35	-	-	-	304.6	75	14.09	33.478	5.24	25.01	295.4	.265
81	13.92	33.497	5.14	-	-	-	290.6	100	12.70	33.579	4.51	25.37	261.3	.335
95	12.94	33.553	4.65	-	-	-	267.7	125	11.31	33.692	4.02	25.72	228.1	.397
108	12.35	33.621	4.32	-	-	-	251.7	150	10.29	33.838	3.43	26.02	200.0	.451
131	10.96	33.718	3.92	-	-	-	220.1	200	9.26	34.079	2.65	26.38	165.8	.545
148	10.34	33.824	3.48	-	-	-	201.9	250	8.46	34.125	2.28	26.54	150.5	.626
175	9.74	33.991	2.94	-	-	-	179.9	300	7.84	34.169	1.60	26.67	138.3	.700
201	9.24	34.081	2.64	-	-	-	165.4	400	6.91	34.267	.71	26.87	118.5	.834
228	8.77	34.107	2.54	-	-	-	156.4	500	6.08	34.291	.48	27.00	106.3	.953
273	8.18	34.143	1.94	-	-	-	145.1							
324	7.56	34.194	1.32	-	-	-	132.6							
402	6.90	34.269	.70	-	-	-	118.2							
481	6.20	34.283	.51	-	-	-	108.4							
562	5.81	34.327	.43	-	-	-	100.4							

110.80 CALCOFI CRUISE 6612 110.80

ALEXANDER AGASSIZ, DECEMBER 10 1966, 0737 GMT, 28 15N 118 55.5W, SOUNDING 2080 FM, WIND 010 FORCE 3, WEATHER MISSING, SEA MODERATE, WIRE ANGLE 07.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
1	17.96	33.469	5.59	-	-	-	379.4
11	17.97	33.469	5.55	-	-	-	379.7
31	18.04	33.468	5.59	-	-	-	381.4
60	17.02	33.553	6.06	-	-	-	351.9
70	16.22	33.564	6.00	-	-	-	333.4
84	15.48	33.634	5.98	-	-	-	312.4
99	14.66	33.616	5.83	-	-	-	296.7
115	13.32	33.549	5.54	-	-	-	275.2
139	11.46	33.626	4.87	-	-	-	235.5
158	10.81	33.794	4.16	-	-	-	211.9
188	9.70	33.886	3.88	-	-	-	187.0
218	9.22	34.010	3.34	-	-	-	170.4
247	9.20	34.178	2.05	-	-	-	157.6
296	8.85	34.291	1.19	-	-	-	143.9
350	8.20	34.320	.85	-	-	-	132.2
435	7.01	34.308	.51	-	-	-	116.8
519	6.22	34.322	.41	-	-	-	105.7
604	5.70	34.364	.39	-	-	-	96.3

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	17.96	33.469	5.59	24.13	379.4	0
10	17.97	33.469	5.55	24.13	379.6	.038
20	18.04	33.466	5.56	24.11	381.5	.076
30	18.04	33.467	5.58	24.11	381.5	.114
50	17.56	33.522	5.92	24.27	366.2	.189
75	15.93	33.590	5.99	24.70	325.3	.276
100	14.58	33.611	5.82	25.01	295.5	.354
125	12.46	33.559	5.29	25.40	258.4	.424
150	11.04	33.723	4.44	25.79	221.1	.485
200	9.44	33.931	3.73	26.23	179.7	.587
250	9.19	34.189	1.97	26.47	156.6	.673
300	8.81	34.295	1.15	26.62	143.0	.751
400	7.49	34.316	.62	26.83	122.6	.890
500	6.37	34.316	.43	26.99	108.0	1.012
600	5.72	34.361	.39	27.11	96.7	1.122

113.30 CALCOFI CRUISE 6612 113.30

ALEXANDER AGASSIZ, DECEMBER 11 1966, 1700 GMT, 29 22N 115 18W, SOUNDING 30 FM, WIND 020 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	14.84	33.451	5.64	-	-	-	312.5
10	14.80	33.452	5.59	-	-	-	311.6
20	14.76	33.447	5.55	-	-	-	311.2
30	14.66	33.442	5.51	-	-	-	309.5
50	13.12	33.512	4.32	-	-	-	274.1

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	14.84	33.451	5.64	24.83	312.5	0
10	14.80	33.452	5.59	24.84	311.6	.031
20	14.76	33.447	5.55	24.85	311.2	.062
30	14.66	33.442	5.51	24.87	309.5	.094
50	13.12	33.512	4.32	25.24	274.1	.152

113.35 CALCOFI CRUISE 6612 113.35

ALEXANDER AGASSIZ, DECEMBER 11 1966, 1408 GMT, 29 11.5N 115 37.5W, SOUNDING 685 FM, WIND 100 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 11.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	15.82	33.467	5.80	-	-	-	331.9
10	15.80	33.467	5.82	-	-	-	331.4
20	15.80K	-	-	-	-	-	-
30	15.80	33.467	5.82	-	-	-	331.4
60	13.30	33.411	5.26	-	-	-	284.9
70	12.59	33.456	4.94	-	-	-	268.3
84	11.56	33.584	4.34	-	-	-	240.3
99	11.17	33.827	3.24	-	-	-	215.6
100	11.13K	33.82 G	-	-	-	-	215.4
114	11.00	33.898	2.92	-	-	-	207.5
138	10.10	33.930	3.33	-	-	-	190.1
157	9.62	33.990	3.27	-	-	-	178.1
187	9.36	34.117	2.53	-	-	-	164.6
216	9.02	34.167	2.21	-	-	-	155.7
245	8.38	34.147	2.05	-	-	-	147.7
294	7.99	34.210	1.50	-	-	-	137.4
348	7.82	34.321	.76	-	-	-	126.8
431	6.98	34.322	.58	-	-	-	115.3
514	6.28	34.344	1.11U	-	-	-	104.8
597	5.70	34.381	.38	-	-	-	95.0

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	15.82	33.467	5.80	24.63	331.9	0
10	15.80	33.467	5.82	24.63	331.4	.033
20	15.80	33.469	5.84	24.64	331.3	.066
30	15.80	33.467	5.82	24.63	331.4	.100
50	14.31	33.417	5.52	24.92	304.2	.163
75	12.19	33.492	4.76	25.40	258.3	.234
100	11.13	33.820	3.20	25.85	215.4	.294
125	10.62	33.918	3.07	26.02	199.6	.346
150	9.77	33.965	3.33	26.20	182.3	.395
200	9.23	34.148	2.35	26.43	160.3	.482
250	8.32	34.150	2.00	26.58	146.5	.561
300	7.97	34.223	1.41	26.69	136.1	.634
400	7.33	34.322	.64	26.86	119.9	.768
500	6.39	34.339	.47	27.00	106.5	.888
600	5.68	34.383	.38	27.13	94.7	.996

113.40 CALCOFI CRUISE 6612 113.40

ALEXANDER AGASSIZ, DECEMBER 11 1966, 1119 GMT, 29 00.5N 115 56W, SOUNDING 945 FM, WIND 360 FORCE 3, WEATHER CLOUDY, SEA MODERATE, WIRE ANGLE 06.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.10	33.475	4.75	-	-	-	337.3
10	16.08	33.474	4.78	-	-	-	336.9
30	15.52	33.435	4.87	-	-	-	327.8
39	14.66	33.407	5.64	-	-	-	312.1
54	13.67	33.437	5.21	-	-	-	290.2
69	12.78	33.384	5.13	-	-	-	277.1
95	11.45	33.611	4.02	-	-	-	236.4
115	10.77	33.803	3.36	-	-	-	210.6
135	10.59	34.003	2.49	-	-	-	192.8
155	10.30	34.058	2.39	-	-	-	183.9
184	9.18	34.062	2.71	-	-	-	165.9
218	8.70	34.142	2.27	-	-	-	152.7
248	8.64	34.219	1.72	-	-	-	146.1
297	7.81	34.223	1.29	-	-	-	133.9
352	7.28	34.232	.99	-	-	-	126.0
436	6.72	34.294	.53	-	-	-	114.0
521	5.91	34.316	.49	-	-	-	102.4
605	5.58	34.356	.37	-	-	-	95.5

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.10	33.475	4.75	24.57	337.3	0
10	16.08	33.474	4.78	24.58	336.9	.034
20	15.96	33.460	4.82	24.59	335.4	.067
30	15.52	33.435	4.87	24.67	327.8	.101
50	13.90	33.428	5.41	25.01	295.3	.163
75	12.44	33.417	4.92	25.30	268.3	.234
100	11.24	33.658	3.86	25.71	229.3	.297
125	10.66	33.912	2.89	26.01	200.7	.351
150	10.40	34.053	2.40	26.17	185.9	.400
200	8.87	34.094	2.57	26.45	158.8	.488
250	8.61	34.221	1.70	26.59	145.6	.566
300	7.77	34.223	1.27	26.72	133.4	.638
400	6.96	34.266	.70	26.87	119.2	.770
500	6.07	34.309	.51	27.02	104.8	.889
600	5.59	34.353	.38	27.11	95.8	.996

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
113.50					CALCOFI CRUISE 6612								113.50	

ALEXANDER AGASSIZ, DECEMBER 11 1966, 0527 GMT, 28 41.5N 116 37W, SOUNDING 1860 FM, WIND 340 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 27.

0	17.22	33.459	5.63	-	-	-	363.2	0	17.22	33.459	5.63	24.30	363.2	0
9	17.22	33.459	5.64	-	-	-	363.2	10	17.22	33.459	5.64	24.30	363.2	.036
44	17.18	33.458	5.65	-	-	-	362.4	20	17.21	33.459	5.65	24.30	363.0	.073
76	16.40	33.446	5.75	-	-	-	345.9	30	17.20	33.459	5.65	24.31	362.8	.109
94	14.13	33.392	5.79	-	-	-	302.5	50	17.07	33.456	5.67	24.33	360.1	.182
107	13.02	33.375	5.56	-	-	-	282.3	75	16.46	33.447	5.75	24.47	347.2	.270
123	11.70	33.379	5.10	-	-	-	257.9	100	13.59	33.382	5.71	25.04	292.6	.351
140	11.58	33.847	3.14	-	-	-	221.3	125	11.65	33.433	4.85	25.46	253.0	.420
156	10.66	33.872	3.24	-	-	-	203.6	150	11.02	33.856	3.13	25.90	210.9	.479
181	10.32	34.151	2.14	-	-	-	177.4	200	9.71	34.152	2.20	26.36	167.4	.575
208	9.46	34.153	2.30	-	-	-	163.5	250	9.23	34.231	1.69	26.50	154.2	.658
227	9.25	34.162	2.21	-	-	-	159.6	300	9.03	34.352	.90	26.63	142.0	.735
258	9.22	34.260	1.48	-	-	-	151.8	400	7.88	34.352	.55	26.80	125.3	.875
296	9.10	34.357	.91	-	-	-	142.8	500	7.05	34.384	.29	26.95	111.7	1.000
344	8.14	34.275	.97	-	-	-	134.7							
420	7.78	34.392	.38	-	-	-	120.9							
503	7.02	34.383	.29	-	-	-	111.3							
573	6.20	34.359	.29	-	-	-	102.7							

113.60					CALCOFI CRUISE 6612								113.60	

ALEXANDER AGASSIZ, DECEMBER 10 1966, 2345 GMT, 28 22N 117 15.5W, SOUNDING 2318 FM, WIND 040 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 08.

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

113.70					CALCOFI CRUISE 6612								113.70	

ALEXANDER AGASSIZ, DECEMBER 10 1966, 1754 GMT, 28 03.5N 117 56W, SOUNDING 1632 FM, WIND 090 FORCE 4, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 22.

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

CALCOFI CRUISE 6612

113.80

ALEXANDER AGASSIZ, DECEMBER 10 1966, 1219 GMT, 27 40N 118 37.5W, SOUNDING 2080 FM, WIND 010 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 23.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
1	17.92	33.499	5.60	-	-	-	376.3
9	17.90	33.495	5.57	-	-	-	376.2
20	17.92K	-	-	-	-	-	-
28	17.94	33.495	5.53	-	-	-	377.1
30	17.94K	-	-	-	-	-	-
50	17.93K	33.49 G	-	-	-	-	377.2
55	16.80	33.465	6.00	-	-	-	353.4
64	15.21	33.394	6.05	-	-	-	324.3
77	14.04	33.354	5.96	-	-	-	303.5
90	13.14	33.406	5.69	-	-	-	282.2
103	12.18	33.416	5.35	-	-	-	263.7
123	11.16	33.623	4.11	-	-	-	230.5
140	10.70	33.733	3.83	-	-	-	214.6
164	9.54	33.844	3.98	-	-	-	187.6
190	8.98	33.936	3.93	-	-	-	172.2
215	8.68	33.987	3.47	-	-	-	163.9
257	7.94	34.042	2.73	-	-	-	149.2
304	7.48	34.113	1.81	-	-	-	137.6
377	7.09	34.241	.82	-	-	-	122.8
453	6.66	34.318	.44	-	-	-	111.5
530	6.04	34.346	.32	-	-	-	101.7

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	17.92	33.499	5.60	24.16	376.3	0
10	17.90	33.495	5.56	24.17	376.2	.038
20	17.92	33.494	5.53	24.16	376.7	.075
30	17.94	33.495	5.56	24.16	377.1	.113
50	17.93	33.490	5.91	24.15	377.2	.189
75	14.17	33.355	5.99	24.90	306.0	.275
100	12.39	33.414	5.45	25.30	267.8	.347
125	11.10	33.638	4.05	25.72	228.4	.410
150	10.22	33.784	3.87	25.99	202.8	.464
200	8.85	33.959	3.77	26.35	168.5	.559
250	8.06	34.034	2.85	26.53	151.5	.641
300	7.51	34.107	1.89	26.67	138.4	.716
400	6.98	34.269	.68	26.87	119.2	.850
500	6.30	34.341	.34	27.01	105.3	.969

113.80

CALCOFI CRUISE 6612

117.30

ALEXANDER AGASSIZ, DECEMBER 12 1966, 0043 GMT, 28 48N 114 56.5W, SOUNDING 55 FM, WIND 340 FORCE 2, WEATHER PARTLY CLOUDY, SEA MODERATE, WIRE ANGLE 10.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.80	33.551	5.81	-	-	-	347.1
10	16.74	33.545	5.81	-	-	-	346.2
20	16.56	33.542	5.74	-	-	-	342.5
30	16.30	33.527	5.60	-	-	-	337.8
49	12.10	33.508	4.56	-	-	-	255.5
74	11.36	33.774	3.19	-	-	-	222.8

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.80	33.551	5.81	24.47	347.1	0
10	16.74	33.545	5.81	24.48	346.2	.035
20	16.56	33.542	5.74	24.52	342.5	.069
30	16.30	33.527	5.60	24.57	337.8	.103
50	11.97	33.512	4.51	25.46	252.8	.163
75	11.33	33.792	3.14	25.79	221.1	.222

117.30

CALCOFI CRUISE 6612

117.35

ALEXANDER AGASSIZ, DECEMBER 13 1966, 1039 GMT, 28 38N 115 16W, SOUNDING 104 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 20.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.31	33.492	5.42	-	-	-	340.6
9	16.34	33.483	5.37	-	-	-	341.9
28	16.16	33.465	5.26	-	-	-	339.3
38	15.78	33.439	5.50	-	-	-	333.1
52	14.20	33.436	5.36	-	-	-	300.7
68	13.52	33.349	5.00	-	-	-	293.7
80	12.12	33.483	4.52	-	-	-	257.7
99	11.44	33.750	3.25	-	-	-	226.0
122	11.10	33.833	3.28	-	-	-	214.0
145	11.09	34.025	2.42	-	-	-	199.6

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.31	33.492	5.42	24.54	340.6	0
10	16.34	33.482	5.36	24.53	341.9	.034
20	16.30	33.475	5.26	24.53	341.6	.068
30	16.12	33.459	5.31	24.56	338.8	.102
50	14.44	33.436	5.40	24.91	305.3	.167
75	12.70	33.415	4.75	25.24	273.4	.240
100	11.42	33.751	3.27	25.75	225.5	.303
125	11.10	33.852	3.22	25.88	212.6	.358
150	11.09	34.081	2.12	26.06	195.5	.410

117.35

CALCOFI CRUISE 6612

117.40

ALEXANDER AGASSIZ, DECEMBER 13 1966, 1306 GMT, 28 28N 115 35.5W, SOUNDING 490 FM, WIND 340 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 10.

INPUT Z	T	S	OXY	PHO	SIL	NIT	D*T
0	16.99	33.514	5.63	-	-	-	354.0
10	17.02	33.522	5.66	-	-	-	354.1
29	16.18	33.480	5.77	-	-	-	338.7
38	14.70	33.390	5.79	-	-	-	314.1
54	13.44	33.354	5.66	-	-	-	291.8
69	12.88	33.547	4.62	-	-	-	267.0
93	11.82	33.713	3.80	-	-	-	235.4
113	11.00	33.862	3.26	-	-	-	210.1
132	10.40	33.887	3.30	-	-	-	198.2
152	9.87	33.990	3.06	-	-	-	182.0
181	9.66	34.041	2.89	-	-	-	174.9
215	9.18	34.168	2.12	-	-	-	158.0
245	9.14	34.278	1.44	-	-	-	149.3
294	8.60	34.315	.92	-	-	-	138.4
348	8.00	34.322	.81	-	-	-	129.2
432	7.20	34.328	.27	-	-	-	117.8
516	6.58	34.348	.49	-	-	-	108.2
600	5.87	34.375	.22	-	-	-	97.5

OUTPUT AT STANDARD LEVELS OF DEPTH Z	T	S	OXY	SIG*T	D*T	DD
0	16.99	33.514	5.63	24.40	354.0	0
10	17.02	33.522	5.66	24.40	354.1	.035
20	16.84	33.506	5.72	24.43	351.4	.071
30	16.02	33.470	5.77	24.59	335.9	.105
50	13.64	33.351	5.75	25.01	295.9	.169
75	12.62	33.596	4.36	25.40	258.5	.238
100	11.52	33.772	3.57	25.75	225.7	.299
125	10.61	33.874	3.27	25.99	202.6	.354
150	9.91	33.979	3.09	26.19	183.5	.402
200	9.38	34.108	2.50	26.38	165.6	.492
250	9.10	34.286	1.36	26.56	148.0	.572
300	8.53	34.317	.90	26.68	137.3	.646
400	7.48	34.325	.46	26.84	121.8	.782
500	6.71	34.344	.49	26.96	110.1	.905
600	5.87	34.375	.22	27.10	97.5	1.016

117.40

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
117.50					CALCOFI CRUISE 6612								117.50	

ALEXANDER AGASSIZ, DECEMBER 13 1966, 2334 GMT, 28 08N 116 15W, SOUNDING 2160 FM, WIND 330 FORCE 2, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 07.

0	17.78	33.621	5.57	-	-	-	364.2	0	17.78	33.621	5.57	24.29	364.2	0
10	17.42	33.593	5.55	-	-	-	358.0	10	17.42	33.593	5.55	24.36	358.0	.036
30	16.91	33.541	5.66	-	-	-	350.3	20	17.14	33.568	5.59	24.40	353.5	.072
40	16.71	33.509	5.73	-	-	-	348.2	30	16.91	33.541	5.66	24.44	350.3	.107
55	14.46	33.447	5.52	-	-	-	305.1	50	15.29	33.461	5.64	24.74	321.0	.174
71	13.14	33.534	4.81	-	-	-	272.8	75	12.80	33.770	4.44	25.50	249.1	.246
75	12.80K	33.77 G	-	-	-	-	249.1	100	12.39	33.872	3.05	25.66	234.0	.307
95	12.66	33.895	2.96	-	-	-	237.3	125	11.27	33.876	3.14	25.87	213.7	.364
115	11.54	33.811	3.44	-	-	-	223.2	150	11.55	34.181	1.82	26.06	196.2	.416
135	11.20	33.984	2.64	-	-	-	204.6	200	10.13	34.195	1.93	26.32	171.0	.509
154	11.64	34.227	1.63	-	-	-	194.3	250	9.42	34.320	1.18	26.54	150.4	.592
184	10.69	34.224	1.77	-	-	-	178.2	300	8.98	34.353	.72	26.63	141.3	.668
218	9.62	34.184	1.97	-	-	-	163.7	400	7.87	34.361	.50	26.81	124.5	.807
247	9.44	34.314	1.23	-	-	-	151.2	500	6.64	34.369	.33	26.99	107.5	.930
296	9.02	34.351	.74	-	-	-	142.0	600	5.77	34.371	.27	27.11	96.6	1.040
350	8.50	34.370	.54	-	-	-	132.9							
434	7.42	34.353	.47	-	-	-	118.9							
518	6.46	34.371	.31	-	-	-	105.0							
602	5.76	34.371	.27	-	-	-	96.5							

117.60					CALCOFI CRUISE 6612								117.60	

ALEXANDER AGASSIZ, DECEMBER 14 1966, 0559 GMT, 27 49.5N 116 57W, SOUNDING 1910 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 21.

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

117.70					CALCOFI CRUISE 6612								117.70	

ALEXANDER AGASSIZ, DECEMBER 14 1966, 1003 GMT, 27 32.5N 117 31W, SOUNDING 1960 FM, WIND 340 FORCE 4, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 07.

0	18.96	33.739	5.57	-	-	-	383.5	0	18.96	33.739	5.57	24.09	383.5	0
10	18.94	33.740	5.41	-	-	-	382.9	10	18.94	33.740	5.41	24.09	382.9	.038
20	18.98K	-	-	-	-	-	-	20	18.98	33.739	5.40	24.08	383.9	.077
30	19.00	33.737	5.42	-	-	-	384.6	30	19.00	33.737	5.42	24.08	384.6	.115
60	13.96	33.486	5.11	-	-	-	292.2	50	15.86	33.545	5.25	24.68	327.2	.187
70	13.08	33.568	4.55	-	-	-	269.2	75	12.66	33.602	4.32	25.40	258.8	.260
86	11.91	33.679	3.92	-	-	-	239.5	100	11.48	33.809	3.58	25.78	222.3	.321
100	11.48	33.809	3.58	-	-	-	222.3	125	10.64	33.903	3.08	26.01	201.0	.375
115	10.95	33.863	3.32	-	-	-	209.2	150	9.96	34.011	2.83	26.21	181.9	.423
140	10.22	33.986	2.80	-	-	-	189.4	200	8.88	34.120	2.40	26.47	157.0	.510
160	9.72	34.051	2.87	-	-	-	175.1	250	8.43	34.211	1.65	26.61	143.7	.587
190	9.10	34.110	2.45	-	-	-	161.1	300	8.12	34.289	1.43	26.72	133.3	.659
219	8.54	34.140	2.34	-	-	-	150.5	400	7.42	34.368	.42	26.88	117.8	.790
249	8.44	34.209	1.66	-	-	-	143.9	500	6.45	34.367	.30	27.02	105.2	.908
299	8.12	34.287	1.45	-	-	-	133.5	600	5.81	34.395	.24	27.12	95.2	1.016
354	7.90	34.373	.51	-	-	-	124.0							
439	6.96	34.347	.36	-	-	-	113.2							
523	6.28	34.374	.28	-	-	-	102.5							
607	5.77	34.397	.24	-	-	-	94.7							

	INPUT							OUTPUT AT STANDARD LEVELS OF DEPTH						
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
117.80					CALCOFI CRUISE 6612								117.80	
ALEXANDER AGASSIZ, DECEMBER 14 1966, 1455 GMT, 27 14N 118 08.5W, SOUNDING 2100 FM, WIND 060 FORCE 4, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 10.														
0	18.38	33.648	5.45	-	-	-	376.2	0	18.38	33.648	5.45	24.16	376.2	0
10	18.38	33.647	5.48	-	-	-	376.3	10	18.38	33.647	5.48	24.16	376.3	.038
20	18.39K	33.65 G	-	-	-	-	376.3	20	18.39	33.650	5.45	24.16	376.3	.075
30	18.40	33.648	5.45	-	-	-	376.7	30	18.40	33.648	5.45	24.16	376.7	.113
50	18.40K	33.65 G	-	-	-	-	376.6	50	18.40	33.650	5.85	24.16	376.6	.189
60	15.30	33.348	5.97	-	-	-	329.6	75	13.76	33.376	5.61	25.00	296.4	.273
70	14.12	33.350	5.76	-	-	-	305.4	100	11.96	33.486	4.81	25.44	254.6	.343
85	13.16	33.438	5.28	-	-	-	280.3	125	11.07	33.737	3.81	25.80	220.5	.403
100	11.96	33.486	4.81	-	-	-	254.6	150	9.85	33.830	3.65	26.08	193.5	.455
114	11.56	33.656	4.14	-	-	-	235.0	200	9.30	34.106	2.48	26.39	164.5	.546
139	10.37	33.800	3.61	-	-	-	204.2	250	8.82	34.228	1.47	26.56	148.1	.627
158	9.54	33.853	3.66	-	-	-	186.9	300	7.72	34.188	1.40	26.70	135.2	.700
187	9.45	34.059	2.77	-	-	-	170.3	400	6.85	34.274	.60	26.89	117.2	.832
216	9.10	34.146	2.15	-	-	-	158.4	500	6.22	34.332	.41	27.02	104.9	.949
246	8.90	34.229	1.50	-	-	-	149.3	600	5.68	34.378	.30	27.12	95.1	1.056
295	7.79	34.186	1.44	-	-	-	136.4							
350	7.20	34.231	.91	-	-	-	125.0							
433	6.66	34.300	.47	-	-	-	112.8							
517	6.12	34.340	.39	-	-	-	103.1							
601	5.68	34.378	.30	-	-	-	95.0							
118.39					CALCOFI CRUISE 6612								118.39	
ALEXANDER AGASSIZ, DECEMBER 13 1966, 0742 GMT, 28 17.5N 115 24W, SOUNDING 134 FM, WIND 010 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 13.														
0	16.53	33.525	5.70	-	-	-	343.0	0	16.53	33.525	5.70	24.51	343.0	0
10	16.50	33.519	5.68	-	-	-	342.8	10	16.50	33.519	5.68	24.52	342.8	.034
30	16.26	33.501	5.62	-	-	-	338.9	20	16.40	33.511	5.65	24.53	341.2	.069
44	14.77	33.414	5.41	-	-	-	313.8	30	16.26	33.501	5.62	24.56	338.9	.103
54	13.63	33.371	5.32	-	-	-	294.2	50	14.07	33.380	5.38	24.94	302.2	.167
68	12.62	33.515	4.53	-	-	-	264.5	75	12.22	33.566	4.25	25.45	253.4	.237
83	11.84	33.622	3.98	-	-	-	242.5	100	11.26	33.779	3.44	25.80	220.6	.297
102	11.20	33.797	3.39	-	-	-	218.3	125	10.49	33.899	3.15	26.03	198.8	.350
125	10.49	33.899	3.15	-	-	-	198.8	150	9.95	33.971	3.00	26.18	184.7	.398
144	10.12	33.950	3.02	-	-	-	189.0							
173	9.61	34.066	2.67	-	-	-	172.3							
198	9.80	34.198	1.81	-	-	-	165.5							
119.33					CALCOFI CRUISE 6612								119.33	
ALEXANDER AGASSIZ, DECEMBER 12 1966, 1347 GMT, 28 19N 114 53W, SOUNDING 57 FM, WIND 340 FORCE 2, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 03.														
0	17.47	33.994	5.60	-	-	-	329.9	0	17.47	33.994	5.60	24.65	329.9	0
10	17.46	33.591	5.56	-	-	-	359.1	10	17.46	33.591	5.56	24.34	359.1	.034
25	17.41	33.587	5.55	-	-	-	358.2	20	17.43	33.588	5.54	24.35	358.5	.070
35	16.24	33.495	5.72	-	-	-	338.9	30	16.82	33.540	5.64	24.46	348.3	.106
45	16.11	33.493	5.69	-	-	-	336.2	50	15.74	33.461	5.63	24.64	330.6	.174
60	14.72	33.408	5.53	-	-	-	313.2	75	13.10	33.485	5.57	25.22	275.7	.250
75	13.10	33.485	5.57	-	-	-	275.7	100	11.50	33.739	3.29	25.72	227.8	.314
100	11.50	33.739	3.29	-	-	-	227.8							
120.45					CALCOFI CRUISE 6612								120.45	
ALEXANDER AGASSIZ, DECEMBER 15 1966, 1426 GMT, 27 43N 115 33W, SOUNDING 1305 FM, WIND 350 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 07.														
0	17.92	33.725	5.46	-	-	-	359.9	0	17.92	33.725	5.46	24.34	359.9	0
10	17.87	33.729	5.49	-	-	-	358.4	10	17.87	33.729	5.49	24.35	358.4	.036
20	17.68K	33.73 G	5.49G	-	-	-	354.0	20	17.68	33.730	5.49	24.40	354.0	.072
30	17.41	33.769	5.50	-	-	-	345.0	30	17.41	33.769	5.50	24.49	345.0	.107
40	15.35	33.526	5.20	-	-	-	317.6	50	13.96	33.502	4.89	25.06	291.0	.170
56	13.40	33.534	4.69	-	-	-	277.8	75	12.53	33.707	3.95	25.51	248.6	.238
71	12.76	33.675	4.11	-	-	-	255.3	100	11.41	33.910	2.99	25.87	213.6	.297
95	11.50	33.862	3.20	-	-	-	218.8	125	10.85	34.033	2.50	26.07	194.9	.348
115	11.18	34.027	2.50	-	-	-	201.0	150	9.99	34.067	2.56	26.25	178.2	.396
135	10.48	34.042	2.58	-	-	-	188.1	200	9.69	34.279	1.43	26.46	157.8	.481
155	9.85	34.079	2.54	-	-	-	175.1	250	9.40	34.354	.90	26.57	147.6	.560
185	9.66	34.214	1.76	-	-	-	162.1	300	9.43	34.456	.43	26.64	140.5	.635
219	9.71	34.340	1.10	-	-	-	153.6	400	7.81	34.357	.51	26.82	123.9	.774
249	9.40	34.352	.91	-	-	-	147.8	500	6.87	34.379	.25	26.97	109.6	.897
299	9.44	34.457	.43	-	-	-	140.6	600	6.06	34.395	.19	27.09	98.3	1.009
355	8.42	34.357	.62	-	-	-	132.6							
439	7.38	34.378	.35	-	-	-	116.5							
523	6.68	34.381	.22	-	-	-	107.0							
607	6.01	34.397	.19	-	-	-	97.5							

120.50

CALCOFI CRUISE 6612

120.50

ALEXANDER AGASSIZ, DECEMBER 15 1966, 1120 GMT, 27 32N 115 52.5W, SOUNDING 2050 FM, WIND 100 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 10.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	17.84	33.684	5.51	-	-	-	361.0
10	17.84	33.679	5.51	-	-	-	361.4
20	17.84K	-	-	-	-	-	-
30	17.84	33.676	5.52	-	-	-	361.6
40	16.10	33.527	5.32	-	-	-	333.5
54	13.92	33.510	4.84	-	-	-	289.7
69	12.66	33.605	4.19	-	-	-	258.6
94	11.40	33.795	3.63	-	-	-	222.0
114	10.82	33.922	3.36	-	-	-	202.6
134	10.56	34.035	2.69	-	-	-	189.9
154	10.62	34.158	2.01	-	-	-	181.9
183	10.01	34.199	1.96	-	-	-	168.8
218	9.36	34.214	1.80	-	-	-	157.4
247	9.20	34.271	1.37	-	-	-	150.7
298	8.84	34.349	.85	-	-	-	139.5
351	8.31	34.358	.62	-	-	-	131.0
435	7.34	34.360	.46	-	-	-	117.3
519	6.52	34.363	.25	-	-	-	106.4
603	5.97	34.396	.21	-	-	-	97.1

OUTPUT AT STANDARD LEVELS OF DEPTH

120.50

Z	T	S	OXY	SIG*T	D*T	DD
0	17.84	33.684	5.51	24.32	361.0	0
10	17.84	33.679	5.51	24.32	361.4	.036
20	17.84	33.677	5.55	24.32	361.5	.072
30	17.84	33.676	5.52	24.32	361.6	.109
50	14.48	33.509	5.00	24.96	300.9	.175
75	12.28	33.650	4.01	25.51	248.3	.244
100	11.19	33.835	3.56	25.85	215.4	.303
125	10.64	33.984	3.02	26.07	195.0	.354
150	10.61	34.136	2.13	26.19	183.3	.403
200	9.66	34.208	1.91	26.41	162.5	.491
250	9.18	34.277	1.33	26.54	150.0	.571
300	8.82	34.350	.84	26.66	139.1	.646
400	7.74	34.359	.51	26.83	122.9	.783
500	6.68	34.362	.28	26.98	108.5	.906
600	5.98	34.394	.21	27.10	97.4	1.017

120.60

CALCOFI CRUISE 6612

120.60

ALEXANDER AGASSIZ, DECEMBER 15 1966, 0609 GMT, 27 12N 116 29.5W, SOUNDING 1980 FM, WIND 360 FORCE 3, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 08.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.34	33.837	5.32	-	-	-	385.6
10	19.34	33.909U	5.38	-	-	-	380.3
20	19.34K	-	-	-	-	-	-
30	19.35	33.832	5.39	-	-	-	386.2
50	19.35K	33.83 G	-	-	-	-	386.3
60	18.24	33.725	5.82	-	-	-	367.4
70	16.29	33.538	6.00	-	-	-	336.8
75	15.80K	-	-	-	-	-	-
84	14.93	33.494	5.73	-	-	-	311.2
100	14.64	33.687	5.30	-	-	-	291.1
115	13.14	33.661	4.83	-	-	-	263.5
140	11.88	33.725	4.04	-	-	-	235.6
159	10.84	33.857	3.57	-	-	-	207.8
188	9.87	33.992	3.17	-	-	-	181.9
218	9.47	34.134	2.34	-	-	-	165.0
247	9.31	34.264	1.54	-	-	-	152.9
296	8.68	34.297	1.10	-	-	-	140.9
350	8.14	34.303	.92	-	-	-	132.6
434	7.05	34.329	.45	-	-	-	115.7
519	6.48	34.346	.33	-	-	-	107.1
602	5.86	34.381	.04U	-	-	-	96.9

OUTPUT AT STANDARD LEVELS OF DEPTH

120.60

Z	T	S	OXY	SIG*T	D*T	DD
0	19.34	33.837	5.32	24.07	385.6	0
10	19.34	33.835	5.38	24.07	385.7	.039
20	19.34	33.833	5.39	24.06	385.8	.077
30	19.35	33.832	5.39	24.06	386.2	.116
50	19.35	33.830	5.64	24.06	386.3	.193
75	15.80	33.510	5.94	24.67	328.3	.283
100	14.64	33.687	5.30	25.06	291.1	.361
125	12.55	33.671	4.50	25.47	251.7	.430
150	11.32	33.792	3.78	25.80	220.7	.490
200	9.66	34.049	2.86	26.29	174.3	.590
250	9.28	34.270	1.49	26.52	152.0	.674
300	8.64	34.298	1.08	26.65	140.3	.750
400	7.48	34.318	.60	26.84	122.3	.887
500	6.61	34.341	.35	26.97	109.2	1.010
600	5.88	34.380		27.10	97.2	1.121

120.70

CALCOFI CRUISE 6612

120.70

ALEXANDER AGASSIZ, DECEMBER 15 1966, 0040 GMT, 26 52.5N 117 09W, SOUNDING 2080 FM, WIND 350 FORCE 4, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 16.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.94	33.903	5.28	-	-	-	395.6
9	19.86	33.899	5.41	-	-	-	393.9
29	19.82	33.897	5.36	-	-	-	393.0
30	19.82K	-	-	-	-	-	-
58	16.50	33.586	5.93	-	-	-	337.9
69	15.34	33.484	5.82	-	-	-	320.5
75	15.20K	33.53 G	-	-	-	-	314.2
83	15.62	33.775	5.51	-	-	-	305.1
97	14.64	33.791	5.20	-	-	-	283.5
112	13.58	33.820	4.90	-	-	-	260.3
135	12.15	33.811	4.78	-	-	-	234.1
154	11.43	33.872	3.68	-	-	-	216.8
183	10.50	34.075	2.73	-	-	-	186.0
211	9.83	34.164	2.14	-	-	-	168.5
241	9.68	34.276	1.47	-	-	-	157.8
289	9.35	34.401	.69	-	-	-	143.4
342	8.58	34.417	.43	-	-	-	130.5
424	7.74	34.393	.33	-	-	-	120.3
508	7.02	34.428	.15	-	-	-	107.9
591	6.16	34.390	.19	-	-	-	99.9

OUTPUT AT STANDARD LEVELS OF DEPTH

120.70

Z	T	S	OXY	SIG*T	D*T	DD
0	19.94	33.903	5.28	23.96	395.6	0
10	19.85	33.899	5.41	23.98	393.7	.039
20	19.83	33.898	5.39	23.99	393.2	.079
30	19.82	33.889	5.38	23.98	393.6	.118
50	17.75	33.687	5.80	24.35	358.7	.194
75	15.20	33.530	5.70	24.82	314.2	.278
100	14.42	33.797	5.13	25.19	278.7	.353
125	12.72	33.813	4.81	25.55	244.4	.419
150	11.56	33.854	3.93	25.80	220.4	.478
200	10.05	34.134	2.35	26.29	174.2	.579
250	9.64	34.306	1.29	26.49	154.9	.663
300	9.20	34.411	.60	26.64	140.4	.740
400	7.96	34.400	.36	26.83	122.8	.878
500	7.10	34.428	.16	26.98	108.9	1.001
600	6.06	34.382	.21	27.08	99.3	1.113

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
120.80			CALCOFI CRUISE 6612				120.80
ALEXANDER AGASSIZ, DECEMBER 14 1966, 2002 GMT, 26 34N 117 47.5W, SOUNDING 2090 FM, WIND 350 FORCE 3, WEATHER PARTLY CLOUDY, SEA ROUGH, WIRE ANGLE 10.							
0	18.81	33.66 G	4.85U	-	-	-	385.6
10	18.63	33.656	5.37	-	-	-	381.6
20	18.63K	-	-	-	-	-	-
30	18.63	33.656	5.18	-	-	-	381.6
50	18.62K	33.66 G	-	-	-	-	381.1
59	16.74	33.420	5.81	-	-	-	355.3
69	15.52	33.405	6.00	-	-	-	330.0
83	14.54	33.504	5.72	-	-	-	302.5
99	13.30	33.477	5.34	-	-	-	280.1
113	12.44	33.571	4.69	-	-	-	257.1
138	11.00	33.826	3.48	-	-	-	212.8
157	10.44	33.892	3.38	-	-	-	198.5
187	9.62	34.016	3.12	-	-	-	176.1
216	9.46	34.174	2.11	-	-	-	161.9
246	9.10	34.217	1.70	-	-	-	153.2
296	8.72	34.333	.90	-	-	-	138.9
350	8.20	34.373	.53	-	-	-	128.3
435	7.39	34.391	.31	-	-	-	115.6
520	6.70	34.403	.22	-	-	-	105.7
604	6.10	34.422	.22	-	-	-	96.7

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	18.81	33.660		24.07	385.6	0
10	18.63	33.656	5.37	24.11	381.6	.038
20	18.63	33.655	5.21	24.11	381.7	.077
30	18.63	33.656	5.18	24.11	381.6	.115
50	18.62	33.660	5.56	24.11	381.1	.191
75	15.05	33.446	5.92	24.78	317.3	.279
100	13.23	33.481	5.30	25.19	278.5	.354
125	11.69	33.698	4.04	25.66	234.2	.419
150	10.62	33.874	3.42	25.99	202.8	.474
200	9.52	34.092	2.68	26.34	169.0	.569
250	9.07	34.227	1.63	26.52	152.0	.652
300	8.68	34.338	.86	26.67	137.9	.727
400	7.72	34.387	.37	26.86	120.4	.862
500	6.85	34.400	.23	26.99	107.9	.983
600	6.13	34.421	.22	27.10	97.1	1.094

Z	T	S	OXY	PHO	SIL	NIT	D*T
123.37			CALCOFI CRUISE 6612				123.37
ALEXANDER AGASSIZ, DECEMBER 15 1966, 2054 GMT, 27 24.5N 114 40W, SOUNDING 38 FM, WIND 240 FORCE 1, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 00.							
0	18.11	33.832	5.54	-	-	-	356.5
10	17.96	33.828	5.55	-	-	-	353.3
20	17.96	33.829	5.58	-	-	-	353.2
30	17.48	33.767	5.51	-	-	-	346.7
50	14.96	33.833	3.73	-	-	-	287.0

Z	T	S	OXY	SIG*T	D*T	DD
0	18.11	33.832	5.54	24.37	356.5	0
10	17.96	33.828	5.55	24.41	353.3	.036
20	17.96	33.829	5.58	24.41	353.2	.071
30	17.48	33.767	5.51	24.47	346.7	.106
50	14.96	33.833	3.73	25.10	287.0	.170

Z	T	S	OXY	PHO	SIL	NIT	D*T
123.42			CALCOFI CRUISE 6612				123.42
ALEXANDER AGASSIZ, DECEMBER 15 1966, 2323 GMT, 27 14N 114 59.5W, SOUNDING 975 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 03.							
0	17.50	33.774	5.14	-	-	-	346.6
10	16.92	33.737	5.65	-	-	-	336.2
30	16.66	33.702	5.61	-	-	-	333.0
50	16.00K	33.68 G	-	-	-	-	320.2
60	14.16	33.627	4.93	-	-	-	285.9
70	12.44	33.553	4.01	-	-	-	258.4
85	11.70	33.731	3.78	-	-	-	231.9
100	11.56	33.855	3.85	-	-	-	220.3
115	11.02	33.946	2.89	-	-	-	204.3
160	10.20	34.143	2.18	-	-	-	176.0
190	10.30	34.291	1.53	-	-	-	166.7
221	10.23	34.422	.91	-	-	-	155.9
251	10.38	34.509	.48	-	-	-	151.9
301	8.99	34.349	.88	-	-	-	141.7
356	8.43	34.377	.56	-	-	-	131.3
441	7.70	34.392	.37	-	-	-	119.8
526	6.79	34.385	.29	-	-	-	108.2
610	6.26	34.430	.15	-	-	-	98.1

Z	T	S	OXY	SIG*T	D*T	DD
0	17.50	33.774	5.14	24.48	346.6	0
10	16.92	33.737	5.65	24.58	336.2	.034
20	16.81	33.715	5.72	24.59	335.3	.068
30	16.66	33.702	5.61	24.62	333.0	.101
50	16.00	33.680	5.37	24.75	320.2	.167
75	12.04	33.596	3.91	25.51	247.9	.238
100	11.56	33.855	3.85	25.80	220.3	.297
125	10.74	33.993	2.61	26.06	195.9	.350
150	10.28	34.103	2.34	26.22	180.3	.398
200	10.27	34.337	1.32	26.41	162.9	.485
250	10.38	34.508	.49	26.52	152.0	.567
300	9.02	34.353	.87	26.63	141.9	.643
400	8.05	34.388	.43	26.81	125.0	.783
500	7.03	34.382	.32	26.95	111.5	.908
600	6.30	34.422	.17	27.08	99.2	1.022

Z	T	S	OXY	PHO	SIL	NIT	D*T
123.50			CALCOFI CRUISE 6612				123.50
ALEXANDER AGASSIZ, DECEMBER 16 1966, 0358 GMT, 26 57N 115 30.5W, SOUNDING 1740 FM, WIND 310 FORCE 3, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 15.							
0	18.45	33.717	5.47	-	-	-	372.9
10	18.44	33.713	5.47	-	-	-	372.9
29	17.99	33.670	5.49	-	-	-	365.5
58	14.40	33.463	5.26	-	-	-	302.7
68	13.68	33.504	5.32	-	-	-	285.4
82	12.40	33.491	5.01	-	-	-	262.2
97	12.08	33.666	4.12	-	-	-	243.5
111	11.44	33.744	3.79	-	-	-	226.4
136	10.48	33.881	3.18	-	-	-	200.0
155	10.11	34.021	2.93	-	-	-	183.6
184	9.36	34.021	3.29	-	-	-	171.7
213	8.83	34.074	2.74	-	-	-	159.7
241	8.98	34.210	1.69	-	-	-	151.9
289	8.73	34.342	.86	-	-	-	138.3
342	8.26	34.372	.57	-	-	-	129.2
425	7.37	34.359	.22	-	-	-	117.7
508	6.77	34.389	.18	-	-	-	107.6
591	5.98	34.393	.17	-	-	-	97.5

Z	T	S	OXY	SIG*T	D*T	DD
0	18.45	33.717	5.47	24.20	372.9	0
10	18.44	33.713	5.47	24.20	372.9	.037
20	18.33	33.698	5.49	24.21	371.5	.075
30	17.88	33.660	5.48	24.30	363.6	.111
50	15.45	33.504	5.31	24.74	321.4	.180
75	13.00	33.492	5.23	25.25	273.3	.255
100	11.95	33.686	4.03	25.60	239.8	.320
125	10.85	33.818	3.43	25.90	210.9	.377
150	10.20	33.988	2.97	26.15	187.4	.427
200	9.01	34.041	3.08	26.39	164.8	.517
250	8.96	34.243	1.47	26.55	149.2	.598
300	8.64	34.354	.77	26.69	136.1	.671
400	7.63	34.365	.30	26.85	120.9	.806
500	6.84	34.387	.18	26.98	108.6	.928
600	5.88	34.393	.17	27.11	96.3	1.038

123.60 CALCOFI CRUISE 6612 123.60

ALEXANDER AGASSIZ, DECEMBER 16 1966, 0909 GMT, 26 36.5N 116 10W, SOUNDING 2047 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 20.

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

127.34 CALCOFI CRUISE 6612 127.34

ALEXANDER AGASSIZ, DECEMBER 17 1966, 0935 GMT, 26 55.5N 114 06.5W, SOUNDING 45 FM, WIND 040 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 04.

Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
0	18.84	33.998	5.37	-	-	-	361.8	0	18.84	33.998	5.37	24.32	361.8	0
10	18.84	33.990	5.40	-	-	-	362.3	10	18.84	33.990	5.40	24.31	362.3	.036
20	18.83	33.984	5.40	-	-	-	362.5	20	18.83	33.984	5.40	24.31	362.5	.073
30	17.73	33.861	5.31	-	-	-	345.6	30	17.73	33.861	5.31	24.49	345.6	.108
50	15.58	33.731	4.72	-	-	-	307.5	50	15.58	33.731	4.72	24.89	307.5	.174
75	13.87	33.762	3.80	-	-	-	270.2	75	13.87	33.762	3.80	25.28	270.2	.246

127.40 CALCOFI CRUISE 6612 127.40

ALEXANDER AGASSIZ, DECEMBER 17 1966, 0615 GMT, 26 49N 114 30W, SOUNDING 1760 FM, WIND 320 FORCE 2, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 00.

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

127.50 CALCOFI CRUISE 6612 127.50

ALEXANDER AGASSIZ, DECEMBER 17 1966, 0025 GMT, 26 22N 115 08W, SOUNDING 1720 FM, WIND 320 FORCE 3, WEATHER CLEAR, SEA MODERATE, WIRE ANGLE 17.

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

OBSERVED LEVELS OF DEPTH								STANDARD LEVELS OF DEPTH						
	INPUT						COMPUTED		INPUT				COMPUTED	
Z	T	S	OXY	PHO	SIL	NIT	D*T	Z	T	S	OXY	SIG*T	D*T	DD
127.55					CALCOFI CRUISE 6612								127.55	

ALEXANDER AGASSIZ, DECEMBER 16 1966, 1712 GMT, 26 14N 115 27W, SOUNDING 1926 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA VERY ROUGH, WIRE ANGLE 23.

859A	4.65	34.476	.39	-	-	-	76.2
907	4.44	-	-	-	-	-	-
965	4.21	34.495	.49	-	-	-	70.2
984	4.12	-	-	-	-	-	-
999	4.08	-	-	-	-	-	-
1004	4.07	34.503	.57	-	-	-	68.2
1008	4.07	-	-	-	-	-	-
1023	4.00	-	-	-	-	-	-
1052	3.91	-	-	-	-	-	-
1148	3.71	34.534	.71	-	-	-	62.4
1293	3.32	34.547	.96	-	-	-	57.8
1590	2.74	34.594	1.37	-	-	-	49.2

127.55					CALCOFI CRUISE 6612		127.55

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

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

127.55					CALCOFI CRUISE 6612		127.55

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

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

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

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

130.60 CALCOFI CRUISE 6612 130.60

ALEXANDER AGASSIZ, DECEMBER 18 1966, 0715 GMT, 25 29N 115 21.5W, SOUNDING 2050 FM, WIND 350 FORCE 3, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.73	33.938	5.33	-	-	-	387.8
10	19.71	33.936	5.37	-	-	-	387.5
20	19.72K	-	-	-	-	-	-
30	19.76	33.950	5.34	-	-	-	387.7
55	13.80	33.692	4.38	-	-	-	274.0
65	12.93	33.858	2.98	-	-	-	245.1
75	12.20	33.962	1.47	-	-	-	223.9
91	11.72	34.052	2.09	-	-	-	208.6
105	11.48	34.198	1.66	-	-	-	193.6
125	10.85K	34.23 G	-	-	-	-	180.4
130	10.59	34.254	1.61	-	-	-	174.3
151	9.76	34.196	1.89	-	-	-	165.0
176	9.83	34.340	2.27	-	-	-	155.5
206	9.96	34.473	.51	-	-	-	147.7
236	9.86	34.506	.39	-	-	-	143.7
276	9.46	34.506	.30	-	-	-	137.3
336	8.55	34.443	.37	-	-	-	128.2
411	7.62	34.406	.38	-	-	-	117.7
486	7.08	34.445	.23	-	-	-	107.5
566	6.40	34.446	.14	-	-	-	98.6

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	19.73	33.938	5.33	24.04	387.8	0
10	19.71	33.936	5.37	24.05	387.5	.039
20	19.72	33.954	5.36	24.06	386.4	.078
30	19.76	33.950	5.34	24.04	387.7	.116
50	15.12	33.717	4.76	24.98	298.8	.185
75	12.20	33.962	1.47	25.77	223.9	.251
100	11.57	34.148	1.85	26.03	198.8	.304
125	10.85	34.230	1.60	26.22	180.4	.352
150	9.79	34.200	1.87	26.38	165.1	.396
200	9.94	34.452	.89	26.55	149.0	.477
250	9.75	34.511	.35	26.63	141.5	.552
300	9.11	34.484	.32	26.72	133.6	.623
400	7.74	34.408	.38	26.87	119.2	.756
500	6.97	34.445	.21	27.01	106.0	.876

133.25 CALCOFI CRUISE 6612 133.25

ALEXANDER AGASSIZ, DECEMBER 18 1966, 2345 GMT, 26 05N 112 48.5W, SOUNDING 47 FM, WIND 360 FORCE 1, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.72	34.013	5.36	-	-	-	382.1
10	19.44	34.013	5.45	-	-	-	375.2
20	19.46	34.014	5.36	-	-	-	375.6
30	19.42	34.014	5.39	-	-	-	374.7
50	15.26	33.777	4.26	-	-	-	297.4
75	13.90	33.978	2.56	-	-	-	255.0

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	19.72	34.013	5.36	24.10	382.1	0
10	19.44	34.013	5.45	24.18	375.2	.038
20	19.46	34.014	5.36	24.17	375.6	.075
30	19.42	34.014	5.39	24.18	374.7	.113
50	15.26	33.777	4.26	24.99	297.4	.181
75	13.90	33.978	2.56	25.44	255.0	.250

133.30 CALCOFI CRUISE 6612 133.30

ALEXANDER AGASSIZ, DECEMBER 18 1966, 2110 GMT, 25 55N 113 07W, SOUNDING 106 FM, WIND 160 FORCE 2, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 00.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.95	33.971	5.37	-	-	-	390.9
10	19.16	33.959	5.42	-	-	-	372.3
30	18.65	33.913	5.44	-	-	-	363.4
40	16.18	33.778	4.60	-	-	-	316.9
55	13.96	33.673	4.54	-	-	-	278.5
70	13.48	33.731	4.27	-	-	-	264.9
80	13.10	34.018	2.61	-	-	-	236.5
105	12.87	34.137	2.19	-	-	-	223.4
130	12.32	34.282	1.39	-	-	-	202.5
155	12.32	34.464	.57	-	-	-	189.2

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	19.95	33.971	5.37	24.01	390.9	0
10	19.16	33.959	5.42	24.21	372.3	.038
20	18.83	33.939	5.57	24.28	365.7	.075
30	18.65	33.913	5.44	24.30	363.4	.112
50	14.50	33.692	4.57	25.09	288.0	.177
75	13.28	33.871	3.46	25.48	250.8	.245
100	12.92	34.114	2.28	25.74	226.1	.305
125	12.39	34.250	1.55	25.95	206.1	.360
150	12.28	34.425	.74	26.11	191.2	.410

133.40 CALCOFI CRUISE 6612 133.40

ALEXANDER AGASSIZ, DECEMBER 18 1966, 1624 GMT, 25 37.5N 113 44.5W, SOUNDING 1262 FM, WIND 340 FORCE 3, WEATHER PARTLY CLOUDY, SEA VERY ROUGH, WIRE ANGLE 08.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.86	33.982	5.25	-	-	-	387.8
10	19.80	34.015	5.26	-	-	-	384.0
30	19.62	33.988	5.32	-	-	-	381.5
40	18.34	33.799	5.41	-	-	-	364.3
49	16.14	33.575	5.43	-	-	-	330.9
64	14.68	33.592	5.17	-	-	-	298.9
79	13.54	33.606	4.68	-	-	-	275.2
98	12.54	33.739	3.70	-	-	-	246.5
123	11.04	33.887	3.14	-	-	-	209.0
143	11.28	34.187	1.82	-	-	-	191.0
173	11.14	34.389	1.05	-	-	-	173.6
202	11.40	34.615	.32	-	-	-	161.5
231	10.90	34.620	.24	-	-	-	152.5
271	10.51	34.612	.19	-	-	-	146.5
330	9.15	34.466	.36	-	-	-	135.5
404	8.24	34.459	.25	-	-	-	122.5
479	7.51	34.457	.19	-	-	-	112.4
558	6.90	34.475	.16	-	-	-	102.9

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	19.86	33.982	5.25	24.04	387.8	0
10	19.80	34.015	5.26	24.08	384.0	.039
20	19.72	34.010	5.28	24.10	382.3	.077
30	19.62	33.988	5.32	24.11	381.5	.115
50	15.99	33.569	5.42	24.67	328.2	.186
75	13.81	33.598	4.83	25.16	281.1	.263
100	12.39	33.747	3.66	25.56	243.1	.329
125	11.04	33.916	3.01	25.94	206.8	.386
150	11.26	34.246	1.57	26.16	186.2	.436
200	11.39	34.602	.36	26.41	162.2	.525
250	10.72	34.617	.20	26.55	149.6	.606
300	9.86	34.542	.27	26.64	141.1	.681
400	8.28	34.459	.26	26.83	122.9	.820
500	7.33	34.460	.18	26.97	109.7	.944

137.23 CALCOFI CRUISE 6612 137.23

ALEXANDER AGASSIZ, DECEMBER 19 1966, 0518 GMT, 25 34.5N 112 19W, SOUNDING 43 FM, WIND 340 FORCE 1, WEATHER PARTLY CLOUDY, SEA SLIGHT, WIRE ANGLE 06.

INPUT

Z	T	S	OXY	PHO	SIL	NIT	D*T
0	19.75	33.994	5.31	-	-	-	384.2
10	19.73	33.990	5.35	-	-	-	384.0
20	19.68	33.985	5.39	-	-	-	383.2
30	18.41	33.865	5.45	-	-	-	361.2
50	16.85	33.779	4.98	-	-	-	331.6
75	15.44	-	-	-	-	-	-

OUTPUT AT STANDARD LEVELS OF DEPTH

Z	T	S	OXY	SIG*T	D*T	DD
0	19.75	33.994	5.31	24.08	384.2	0
10	19.73	33.990	5.35	24.08	384.0	.038
20	19.68	33.985	5.39	24.09	383.2	.077
30	18.41	33.865	5.45	24.32	361.2	.114
50	16.85	33.779	4.98	24.63	331.6	.184
75	15.44					

	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
137.30					CALCOFI CRUISE 6612								137.30	

ALEXANDER AGASSIZ, DECEMBER 19 1966, 0814 GMT, 25 22N 112 47.5W, SOUNDING 130 FM, WIND 340 FORCE 1, WEATHER CLEAR, SEA SLIGHT, WIRE ANGLE 00.

0	20.16	34.033	5.29	-	-	-	391.6	0	20.16	34.033	5.29	24.00	391.6	0
10	20.10	34.022	5.32	-	-	-	390.9	10	20.10	34.022	5.32	24.01	390.9	.039
30	19.88	33.995	5.33	-	-	-	387.4	20	20.00	34.009	5.33	24.03	389.4	.078
45	17.40	33.666	5.78	-	-	-	352.2	30	19.88	33.995	5.33	24.05	387.4	.117
55	16.10	33.572	5.74	-	-	-	330.2	50	16.70	33.605	5.78	24.53	341.0	.190
70	15.06	33.658	4.98	-	-	-	301.9	75	14.67	33.712	4.61	25.07	289.9	.270
85	13.95	33.829	3.85	-	-	-	266.9	100	13.30	33.968	2.97	25.55	243.9	.337
105	13.16	34.010	2.72	-	-	-	238.3	125	12.95	34.171	1.90	25.78	222.6	.396
130	12.90	34.205	1.75	-	-	-	219.0	150	12.60	34.305	1.39	25.95	206.0	.450
150	12.60	34.305	1.39	-	-	-	206.0	200	11.63	34.519	.52	26.30	172.7	.547
180	11.84	34.450	.85	-	-	-	181.5							
205	11.62	34.533	.44	-	-	-	171.4							

137.40					CALCOFI CRUISE 6612								137.40	

ALEXANDER AGASSIZ, DECEMBER 19 1966, 1345 GMT, 25 03.5N 113 24W, SOUNDING 1350 FM, WIND 350 FORCE 2, WEATHER CLEAR, SEA ROUGH, WIRE ANGLE 02.

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

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

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

SIO
CALCOFI
6612

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

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

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

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

MR. WILLIAM ALLEN, JR.
1070 - 16TH PLACE SOUTH
EDMONDS, WASHINGTON 98020

MR. D.L. ALVERSON, BASE DIRECTOR
NORTH PACIFIC FISHERIES EXPLORATION
AND GEAR RESEARCH
2725 MONTLAKE BLVD.
SEATTLE, WASHINGTON 98102

MR. THOMAS S. AUSTIN, DIRECTOR
NATIONAL OCEANOGRAPHIC DATA CENTER
WASHINGTON, D.C. 20390

MR. WILLIAM E. BATZLER
CODE 3185 C
U. S. NAVY ELECTRONICS LABORATORY
SAN DIEGO 52, CALIFORNIA
92152

MR. F.B. BENNETT
DEPARTMENT OF OCEANOGRAPHY
UNIVERSITY OF HAWAII
HONOLULU, HAWAII 96812

MR. FREDERICK H. BERRY, DIRECTOR
U.S. BUREAU OF COMMERCIAL FISHERIES
TROPICAL ATLANTIC BIOLOGICAL LAB.
75 VIRGINIA BEACH DRIVE
MIAMI, FLORIDA 33149

ROLF BOLIN
PKINS MARINE STATION
PACIFIC GROVE, CALIFORNIA

93950

BRITISH MUSEUM
DEPARTMENT OF PRINTED BOOKS-SB
STECHERT- HAFNER, INC.
ORDER NO. AK 72461
LONDON, W.C. 1.ENGLAND.

BRITISH NAVY STAFF
BRITISH EMBASSY
3100 MASSACHUSETTS AVE. N.W.
WASHINGTON, D.C. 20008
ATT. SCIENTIFIC INFORMATION OFFICER

MR. DAIL W. BROWN
LAMONT GEOLOGICAL LABORATORY
COLUMBIA UNIVERSITY
PALISADES, NEW YORK 10964

CHIEF
BRANCH OF MARINE FISHERIES
BUREAU OF COMMERCIAL FISHERIES
DEPARTMENT OF THE INTERIOR
WASHINGTON, D.C. 20240

LIBRARIAN
BUREAU OF COMMERCIAL FISHERIES
TROPICAL ATLANTIC BIOLOGICAL LAB.
75 VIRGINIA BEACH DRIVE
MIAMI, FLORIDA 33149

BRARIAN
BUREAU OF COMMERCIAL FISHERIES
U.S. FISH AND WILDLIFE SERVICE
P. O. BOX 3830
HONOLULU 12, HAWAII 96812

MR. J. G. BURNETTE,
MARINE RESEARCH COMMITTEE
P. O. BOX 807
LOS ALTOS, CALIFORNIA 94022

DR. WAYNE V. BURT
PROFESSOR OF OCEANOGRAPHY
DEPARTMENT OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OREGON

LIBRARY
CALIFORNIA ACADEMY OF SCIENCES
GOLDEN GATE PARK
SAN FRANCISCO, CALIF. 94118

MARINE RESOURCES LIBRARY 4
DEPARTMENT OF FISH AND GAME
CALIFORNIA STATE FISHERIES LAB.
TERMINAL ISLAND, CALIF. 90731

CAPITAN DE NAVIO
LUIS R. A. CAPURRO
SERVICIO DE HIDROGRAFIA NAVAL
AVENIDA MONTES DE OCA 2124
BUENOS AIRES, ARGENTINA

ANATOLIO HERNANDEZ CARVALLO, DIR.
ESTACION DE BIOLOGIA PESQUERA
PASEO CLAUSSEN, COL LOS PINOS
MAZATLAN, SINALOA, MEXICO

MR. HAROLD B. CLEMENS, JR.
MARINE RESOURCES OPERATIONS
CALIFORNIA STATE FISHERIES LAB.
TERMINAL ISLAND, CALIFORNIA
90731

DR. DANIEL M. COHEN
BUREAU OF COMMERCIAL FISHERIES
ICHTHYOLOGICAL LABORATORY
U. S. NATIONAL MUSEUM
WASHINGTON, D.C. 20560

MISS NANCY R. COMAN, LIBRARIAN
NARRAGANSETT MARINE LABORATORY
UNIVERSITY OF RHODE ISLAND
KINGSTON, RHODE ISLAND 02881

MR. E.H.COUGHRAN
ENVIRONMENTAL STUDIES INSTITUTE
P.O. BOX 6564
SAN DIEGO, CALIF. 92106

DR. G. M. CRESSWELL
TIBURON OCEANOGRAPHIC INSTITUTE
TIBURON, CALIFORNIA 94920

HERRN PROF. DR. A. DEFANT
STERNWARTESTRASSE 38
INNSBRUCK
AUSTRIA

DEUTSCHE AKADEMIE DER
WISSENSCHAFTEN ZU BERLIN
INSTITUT FUR MEERESKUNDE
WARNEMUNDE, SEESTR. 15
BERLIN, GERMANY

DEUTSCHES HYDROGRAPHISCHES INSTITUT
TAUSCHSTELLE
BERNHARD-NOCHT-STR. 78
2 HAMBURG 4, GERMANY

MR. ROBERT L. EBERHARDT
LOCKHEED AIRCRAFT CORPORATION
3380 N. HARBOR DRIVE
SAN DIEGO, CALIF. 92101

ENVIRONMENTAL SCIENCES DIVISION
CODE 3150, BOX 7
PACIFIC MISSILE RANGE
POINT MUGU, CALIF. 93041

LIBRARY
OCEANOGRAPHIC GROUP
FISHERIES RESEARCH AND DEVELOPMENT
AGENCY
PUSAN, KOREA

DR. RICHARD H. FLEMING
UNIVERSITY OF WASHINGTON
OCEANOGRAPHIC LABORATORIES
SEATTLE, WASHINGTON 98105

PROF. JAMES A. GAST
DIVISION OF NATURAL RESOURCES
HUMBOLDT STATE COLLEGE
ARCATA, CALIFORNIA 95521

DR. ROBERT H. GIBBS, JR.
DIVISION OF FISHERIES
U.S. NATIONAL MUSEUM
WASHINGTON, D.C. 20560

DR. DONN S. GORSLINE
DEPARTMENT OF GEOLOGY
UNIVERSITY OF SOUTHERN CALIFORNIA
LOS ANGELES, CALIF. 90007

MR. CHARLES G. GUNNERSON
DAMOC-WHO
MACAR KARDESLER CADDESI, NO. 46
FATIH, ISTANBUL
TURKEY

MR. CHARLES G. GUNNERSON
WATER QUALITY ACTIVITIES
FEDERAL WATER POLLUTION CONTROL ADM.
1014 BROADWAY
CINCINNATI, OHIO, 45202

HANCOCK LIBRARY OF BIOLOGY & OCEANOGRAPHY
ALLAN HANCOCK FOUNDATION
UNIVERSITY OF SO. CALIF.
LOS ANGELES, CALIF. 90007

DR. WILLIAM J. HARGIS, JR., DIR.
VIRGINIA INST. OF MARINE SCIENCES
GLOUCESTER POINT, VIRGINIA 23062

MR. KOJI HIDAKA
OCEAN RESEARCH INSTITUTE
UNIVERSITY OF TOKYO
NAKANO, TOKYO, JAPAN

MR. T. HIRANO
TOKAI REGIONAL FISHERIES
RESEARCH LABORATORY
5, KACHIDOKI, CHUO-KU
TOKYO, JAPAN

LIBRARY
HOPKINS MARINE STATION
PACIFIC GROVE, CALIF. 93950

DISTRIBUTION LIST

Inter-American Tropical Tuna Commission
(c/o Scripps Institution of Oceanography)

Dr. John Kask

U. S. Bureau of Commercial Fisheries
(c/o Scripps Institution of Oceanography)

Dr. E. H. Ahlstrom
Mr. Ronald Lynn
Mr. Robert W. Owen, Jr.
Director's Office
Library (2)

Scripps Institution of Oceanography

Dr. A. Alvariño de Leira
Dr. Maurice Blackburn
Dr. T. J. Chow
Dr. Richard W. Eppley
Dr. Abraham Fleminger
Mr. Jeffery D. Frautschy
Mr. John D. Isaacs
Mr. Hans T. Klein
Miss Margaret D. Knight
Dr. John A. McGowan
Dr. Fred B. Phleger
Mr. Joseph L. Reid, Jr.
Mrs. Margaret K. Robinson
Dr. Richard H. Rosenblatt
Mrs. Valeria A. de Saussure
Dr. M. B. Schaefer
Mr. Richard A. Schwartzlose
Mr. George H. Snyder
Dr. Warren S. Wooster
Director's Office
Library, AOG, SFA
Library, SIO, Archives
Library, SIO, Circulation (3)
Library, UCSD, Acquisitions

LIBRARIAN
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF MIAMI
1 RICKENBACKER CAUSEWAY
MIAMI, FLORIDA 33149

DIR., INST. DE GEOFISICA
TORRE DE CIENCIAS, 3ER PISO
UNIVERSIDAD NACIONAL AUTONOMA
DE MEXICO
VILLA OBREGON, D. F., MEXICO

INSTITUTO NACIONAL DE
INVESTIGACIONES BIOLOGICO-PESQUERAS
CARMONA Y VALLE NO. 101, PISO NO. 4
MEXICO 7, D. F., MEXICO

DIRECTOR
ESTACION DE BIOLOGIA MARINA
INSTITUTO TECHNOLOGICO DE VERACRUZ
HEROICA, VERACRUZ
VERACRUZ, MEXICO

JAPAN METEOROLOGICAL AGENCY
OCEANOGRAPHICAL SECTION
TOKYO, JAPAN

JAPANESE OCEANOGRAPHIC DATA CENTER
HYDROGRAPHIC DIVISION
MARITIME SAFETY AGENCY
NO. 3-1, 5-CHOME, TSUKIJI, CHUO-KU
TOKYO, JAPAN

MR. LARRY KIML
DIRECTOR OF NATURAL RESOURCES
CALIFORNIA STATE CHAMBER OF COMMERCE
520 CAPITOL MALL, ROOM 406
SACRAMENTO, CALIFORNIA 95814

MR. JOSEPH E. KING, CHIEF
BRANCH OF MARINE FISHERIES
BUREAU OF COMMERCIAL FISHERIES
WASHINGTON, D.C. 20240

DR. H. KITAMURA
OCEANOGRAPHIC SECTION
KOBE MARINE OBSERVATORY
KOBE, JAPAN

DR. E. C. LA FOND
CODE 3190
U. S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

MR. OWEN S. LEE
PROGRAM MANAGER FOR PHYSICAL
OCEANOGRAPHY
U.S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

MR. ROBERT M.LESSER
LOCKHEED MARINE LABORATORY
3380 N. HARBOR DRIVE
SAN DIEGO, CALIF. 92101

DR. JOHN LYMAN
BUREAU OF COMMERCIAL FISHERIES
DEPT. OF THE INTERIOR
WASHINGTON, D.C. 20240

MARINE ADVISERS, INC.
P.O. BOX 1963
LA JOLLA, CALIFORNIA 92037

MR. JOHN C. MARR,AREA DIRECTOR
BUREAU OF COMMERCIAL FISHERIES
P. O. BOX 3830
HONOLULU, HAWAII 96812

MR. JOTARO MASUZAWA
OCEANOGRAPHICAL SECTION
JAPAN METEOROLOGICAL AGENCY
CHIYODA-KU, TOKYO, JAPAN

DR. HUGH J. McLELLAN
OFFICE OF NAVAL RESEARCH
CODE 408-416
WASHINGTON, D.C. 20360

DR. GILES W. MEAD
MUSEUM OF COMPARATIVE ZOOLOGY
HARVARD UNIVERSITY
CAMBRIDGE 38, MASSACHUSETTS
02138

SR. AMIN ZARUR MENEZ
INSTITUTO NACIONAL DE INVESTIGACIONES
BIOLOGICO-PESQUERAS
CARMONA Y VALLE 101, 4C PISO
MEXICO, D.F., MEXICO

LIBRARIAN
MINISTRY OF AGRICULTURE, FISHERIES
AND FOOD
FISHERIES LABORATORY
LOWESTOFT, SUFFOLK, ENGLAND

LIBRARY
NANKAI REGIONAL FISH. RES. LAB.
6-2, SANBASHI-DORI, KOCHI-SHI
KOCHI, JAPAN

LIBRARIAN
NATIONAL OCEANOGRAPHIC DATA CENTER
WASHINGTON, D.C. 20390

DR. KENNETH S. NORRIS
UNIVERSITY OF CALIFORNIA
DEPT. OF ZOOLOGY
LOS ANGELES, CALIF. 90024

DR. ROBERT M. NORRIS
DEPARTMENT OF GEOLOGY
UNIVERSITY OF CALIFORNIA
SANTA BARBARA, CALIFORNIA 93106

OCEANOGRAPHIC RESEARCH INSTITUTE
CENTENARY AQUARIUM BLDGS.
2 WEST STREET
DURBAN, NATAL, SOUTH AFRICA

OFICINA DE PESCA NO. 1
AV. RUIZ NO. 4-3
ENSENADA, BAJA CALIFORNIA
MEXICO

DR. YNGVE H. OLSEN
JOURNAL OF MARINE RESEARCH
BOX 2025, YALE STATION
NEW HAVEN, CONN. 06520

LIBRARY, RESEARCH LABORATORY
OREGON FISH COMMISSION
ROUTE 2, BOX 31A
CLACKAMAS, OREGON 97015

PACIFIC MARINE FISHERIES COMMISSION
741 STATE OFFICE BUILDING
1400 S.W. FIFTH AVENUE
PORTLAND, OREGON 97201

MR. HAROLD D. PALMER
DAWES AND MOORE
2333 W. THIRD STREET
LOS ANGELES, CALIF. 90057

DR. ROBERT G. PAQUETTE
GENERAL MOTORS CORPORATION
DEFENSE SYSTEMS DIVISION
BOX T
SANTA BARBARA, CALIFORNIA 93102

DR. R. P. PHILLIPS, DIRECTOR
SAN DIEGO SOCIETY OF NATURAL HISTORY
P.O. BOX 1390
SAN DIEGO, CA. 92112

DR. G. L. PICKARD
INST. OF OCEANOGRAPHY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER, B. C.
CANADA

DR. D. W PRITCHARD, DIRECTOR
CHESAPEAKE BAY INSTITUTE
THE JOHNS HOPKINS UNIVERSITY
OCEANOGRAPHY BLDG.
BALTIMORE, MARYLAND 21218

MR. D. W. PRIVETT, LIBRARIAN
NATL. INST. OF OCEANOGRAPHY
WORMLEY
NEAR GODALMING
SURREY, ENGLAND

DR RICARDO M. PYTKOWICZ
DEPARTMENT OF OCEANOGRAPHY
OREGON STATE UNIVERSITY
CORVALLIS, OREGON
97331

MR. JOHN RADOVICH, CHIEF
MARINE RESOURCES BRANCH
DEPARTMENT OF FISH AND GAME
1416 NINTH STREET
SACRAMENTO, CALIF. 95814

MR. GUNNAR I. RODEN
DEPARTMENT OF OCEANOGRAPHY
UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98105

DIRECTOR PEDRO MERCADO SANCHEZ
ESCUELA SUPERIOR CIENCIAS MARINAS
UNIVERSIDAD AUTONOMA DE BAJA CALIF.
APARTADO DE CORREOS 453
ENSENADA, B. C., MEXICO

LIBRARIAN
SERIALS DEPARTMENT
SAN DIEGO STATE COLLEGE LIBRARY
SAN DIEGO, CALIF. 92115

LIBRARIAN
GEOLOGY-OCEANOGRAPHY DEPT.
SAN FERNANDO STATE COLLEGE
NORTHRIDGE, CALIF. 91324

DR. O. E. SETTE, CHIEF
BUREAU OF COMMERCIAL FISHERIES
BIOLOGICAL LABORATORY
450-B JORDAN HALL
STANFORD, CALIFORNIA 94305

MR. DAITARO SHOJI
OCEANOGRAPHIC SECTION
JAPANESE HYDROGRAPHIC OFFICE
5-CHOME,TSUKIJI, CHUO-KU
TOKYO, JAPAN

MR. J. C. SIMPSON, PROJECT MANAGER
FISHERIES RESEARCH AND DEVELOPMENT PROJECT
APARTADO 2578
CARACAS, VENEZUELA

MR. EDMUND H. SMITH, DIRECTOR
PACIFIC MARINE STATION
DILLON BEACH
MARIN COUNTY, CALIF

DR. REIMER SIMONSEN
INSTITUT FUR MEERESFORSCHUNG
285 BREMERHAVEN
AM HANDELSHAFEN 12
GERMANY

DR. F.G. SMITH, DIRECTOR
INSTITUTE OF MARINE SCIENCE
UNIVERSITY OF MIAMI
1 RICKENBACKER CAUSEWAY
MIAMI, FLORIDA 33149

LIBRARY OF THE DIVISION OF
SYSTEMATIC BIOLOGY
STANFORD UNIVERSITY
STANFORD, CALIF. 94305

PROF. HENRY M. STOMMEL
MASSACHUSETTS INSTIT. OF TECHNOLOGY
BLDG. 24, ROOM 1416
CAMBRIDGE 39, MASSACHUSETTS.
02139

DR. ARTHUR D. STUMP
DEPARTMENT OF CHEMISTRY
SAN JOSE STATE COLLEGE
SAN JOSE, CALIF.

MR. NORMAN TEBBLE
ZOOLOGY DEPARTMENT
BRITISH MUSEUM, NATURAL HISTORY
CROMWELL ROAD
LONDON SW 7, ENGLAND

DEPARTMENT OF OCEANOGRAPHY
TEXAS A. AND M. UNIVERSITY
COLLEGE STATION, TEXAS
77843

MR. A. J. THOMSON
OFFICIAL SECRETARY
NEW SOUTH WALES GOVERNMENT OFFICES
56, STRAND
LONDON, W. C. 2, ENGLAND

DR. R. B. TIBBY
HANCOCK FOUNDATION
U. OF SOUTHERN CALIFORNIA
UNIVERSITY PARK
LOS ANGELES 7, CALIFORNIA 90007

DR. M. UDA
TOKYO UNIV. OF FISHERIES
4-5 KONANCHO, MINATO-KU
TOKYO, JAPAN

COMMANDING OFFICER
USCG OCEANOGRAPHIC UNIT
BLDG. 159-E, NAVY YARD ANNEX
WASHINGTON, D.C. 20390

LOS ANGELES FIELD OFFICE
U.S. COAST AND GEODETIC SURVEY
417 S. HILL ST., ROOM 535
LOS ANGELES, CALIF. 90013

LIBRARIAN
U. S. COAST AND GEODETIC SURVEY
WASHINGTON SCIENCE CENTER
ROCKVILLE, MARYLAND 20852

U. S. FISH AND WILDLIFE SERVICE
TIBURON MARINE LABORATORY
P. O. BOX 98
TIBURON, CALIFORNIA
94920

U.S.FLEET NUMERICAL WEATHER FACILITY
U.S. NAVAL POSTGRADUATE SCHOOL
MONTEREY, CALIF. 93940

LIBRARIAN
U. S. NAVAL CIVIL ENGINEERING LAB.
PORT HUENEME, CALIFORNIA
93041

PACIFIC SUPPORT GROUP
U.S. NAVAL OCEANOGRAPHIC OFFICE
SAN DIEGO, CALIF. 92152

COMMANDER 2
U.S. NAVAL OCEANOGRAPHIC OFFICE
LIBRARY CODE 1640
WASHINGTON, D.C. 20390

U.S. NAVAL ORDNANCE TEST STATION
3202 E. FOOTHILL BLVD.
PASADENA, CALIFORNIA
ATTN. CODE P- 80833
91107

LIBRARY 2
U.S. NAVY ELECTRONICS LABORATORY
SAN DIEGO, CALIF. 92152

UNIVERSITY OF CALIFORNIA 2
SERIALS DEPARTMENT
GENERAL LIBRARY
BERKELEY 4, CALIFORNIA
94704

PUBLICATIONS OFFICE 2
101 UNIVERSITY HALL
2200 UNIVERSITY AVE
BERLELEY, CALIF. 94720

UNIVERSITY OF WASHINGTON 2
FISHERIES-OCEANOGRAPHY LIBRARY
203 FISHERIES CENTER
SEATTLE, WASHINGTON 98105

DR. M. PAT WENNEKENS
DEPARTMENT OF THE NAVY
OFFICE OF NAVAL RESEARCH
1076 MISSION ST.
SAN FRANCISCO. CALIFORNIA 94103

WOODS HOLE OCEANOGRAPHIC INST.
DOCUMENT LIBRARY LO-206
WOODS HOLE, MASS. 02643

DIRECTOR 6
WORLD DATA CENTER A, OCEANOGRAPHY
BLDG. 160
2ND AND N STREETS, S.E.
WASHINGTON,D.C. 20390

MR. HAJIME YAMANAKA
DIVISION OF OCEANOGRAPHY
NANKAI REGIONAL FISH. RES. LAB.
2-6, SANBASHI-DORI,KOCHI-SHI
KOCHI, JAPAN

DR. KOZO YOSHIDA
GEOPHYSICAL INST.
UNIVERSITY OF TOKYO
HONGO, TOKYO, JAPAN