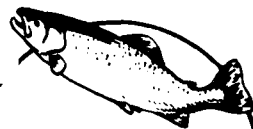


The Trade Wind Zone Oceanography Pilot Study
Part VI: Townsend Cromwell Cruises 16, 17, and 21
May and June 1965 and January 1966

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



SPECIAL SCIENTIFIC REPORT-FISHERIES No. 557

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES

UNITED STATES DEPARTMENT OF THE INTERIOR

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The Trade Wind Zone Oceanography Pilot Study Part VI: Townsend Cromwell Cruises 16, 17, and 21 May and June 1965 and January 1966

By

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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the last regular cruises, Townsend Cromwell cruises 16 and 17, May and June 1965, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed. Oceanographic station data from Townsend Cromwell cruise 21 in January 1966, consisting of a single profile of stations between lat. 10° and 26.5° N. along long. 154° W., have been included.

INTRODUCTION

This is the last of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W. In addition to the series of monthly cruises, the field program of the pilot study was extended to include a single profile of stations along long. 154° W. in January 1966.

The complete set of observations represents a three-dimensional time-sequence distribution

of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for cruises 16, 17, and 21, the last cruises in the series. Figure 1 shows the cruise track for cruises 16 and 17 and gives the position of the Nansen bottle oceanographic casts and the BT casts. It also contains these data for Townsend Cromwell cruise 21 with the single profile of stations along long. 154° W., including stations 7A to 16, 39, and one additional station, 39A, at lat. 26.5° N. Although this cruise was, strictly speaking, not a part of the series, the additional data provide a means of comparison of oceanographic conditions in January 1966 along long. 154° W. with those in January 1965.

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

The cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefing and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 16:

May 12 to 31, 1965

Lloyd T. Watarai - HL - Field Party Chief
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
John J. Naughton - HL
James K. Tarasawa - HL
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 17:

June 10 to July 2, 1965

David W. K. Au - HL - Field Party Chief
Barbara E. Boldt - HL
John L. Matthews - HL
Howard N. Morinaga - HL
James K. Tarasawa - HL
Paul Woodward - Smithsonian Institution

Townsend Cromwell, cruise 21:

January 17 to February 2, 1966

Gunter R. Seckel - HL - Field Party Chief
David W. K. Au - HL
John L. Matthews - HL
Howard N. Morinaga - HL
Alan M. Osato - HL

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25; at oceanographic stations 3, 18, and 24, BT casts were made every 20 minutes for a 12-hour period on cruise 17. Surface temperatures and salinity samples were taken from an inside pump system which has an intake at a depth of 8 feet. A Hytech Model 9006 Salinity-Temperature-Depth Measuring System^{2/} was used to collect additional data at stations south of lat. 14° N. on both cruises and at two additional stations along long. 148° W. on cruise 17. These data are not presented in this report.

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley pyranometer. These observations were supplemented by daily color photographs of clouds. Surface long wave radiation measurements were taken at night BT stations with the Suomi-Kuhn net radiometer.

Current

Eight drift bottles, supplemented by plastic-enclosed drift cards (Barkley, Ito, and Brown, 1964) during the first and last days of cruises 16 and 17, were released at each BT cast. Two current stations were occupied each cruise; Ekman, Hydro Products, and Roberts current meters were used. Cruise 21 was designed to develop a method of obtaining directly measured currents from a drifting ship which could be correlated with inferred currents and with the water mass structure. To this end, currents to 1,000 m. were measured at stations midway between oceanographic stations. Only the oceanographic station data and BT observations are included in this report.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determina-

tions was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic $\text{PO}_4\text{-P}$ was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^\circ\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface intake values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles when available. For temperature, variation was fairly random, so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. Variations were

large, however, and the root mean square value computed from above differences was as much as 0.5°C . The bucket salinity values also showed large variations with a mean of the differences of about 0.005 ‰ and a root mean square value within 0.12 ‰ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 16, 17, and 21, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148°W ., 151°W ., 154°W ., and 157°W ., based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 8, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 16 and figures 8 through 13 for cruise 17. The one BT section along 154°W ., from cruise 21 is shown in figure 14.

The surface temperature distributions, based on intake temperature at each BT cast, are shown in figures 15 and 16 for cruises 16 and 17, respectively.

The surface salinity distributions, based on intake salinity samples at each BT cast, are

shown in figures 17 and 18 for cruises 16 and 17, respectively.

The dynamic topography, relative to 1,200 m. for cruises 16 and 17, is shown in figures 19 and 20, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

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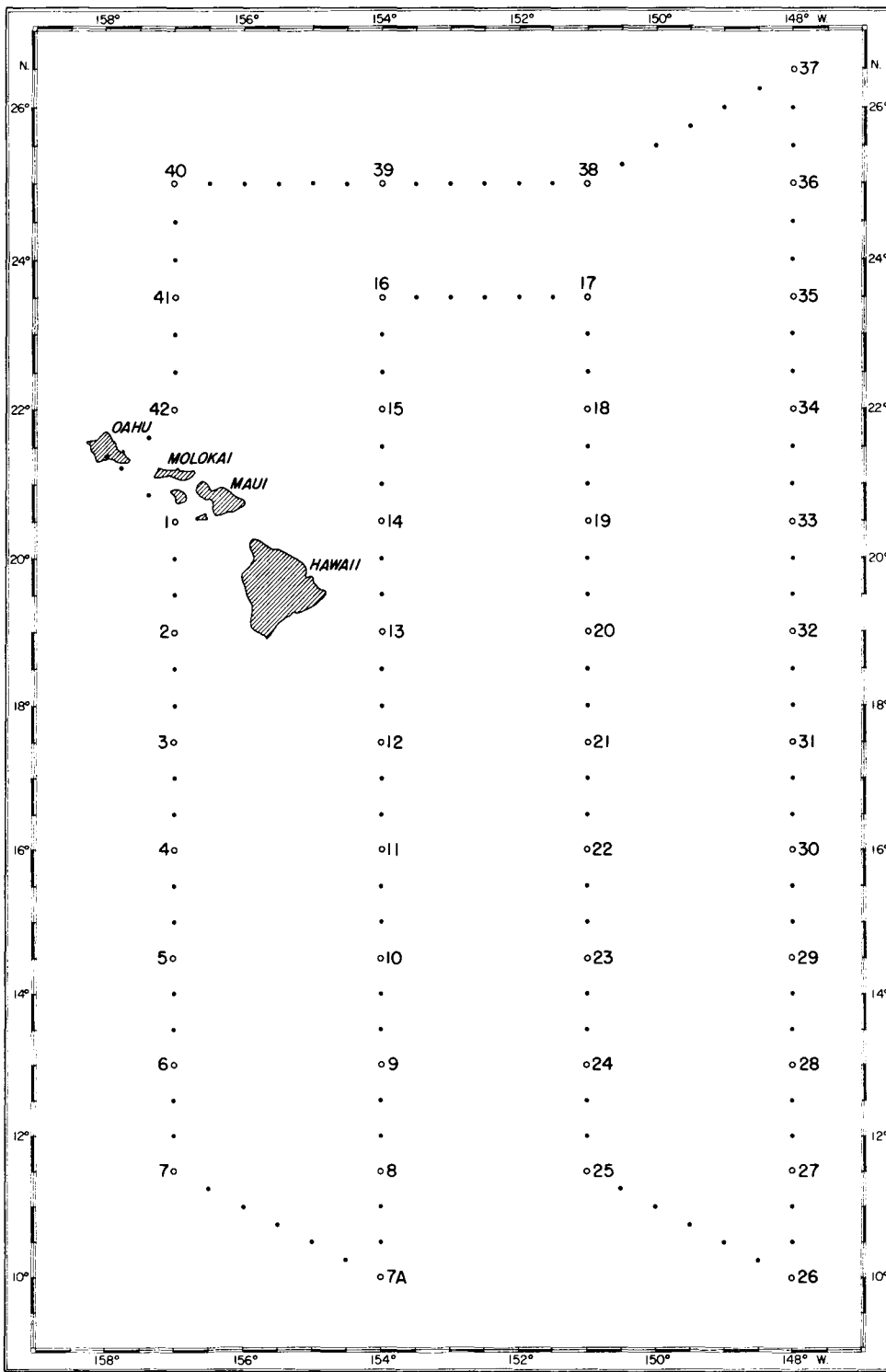


Figure 1.--Track chart for Townsend Cromwell cruises 16 and 17. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

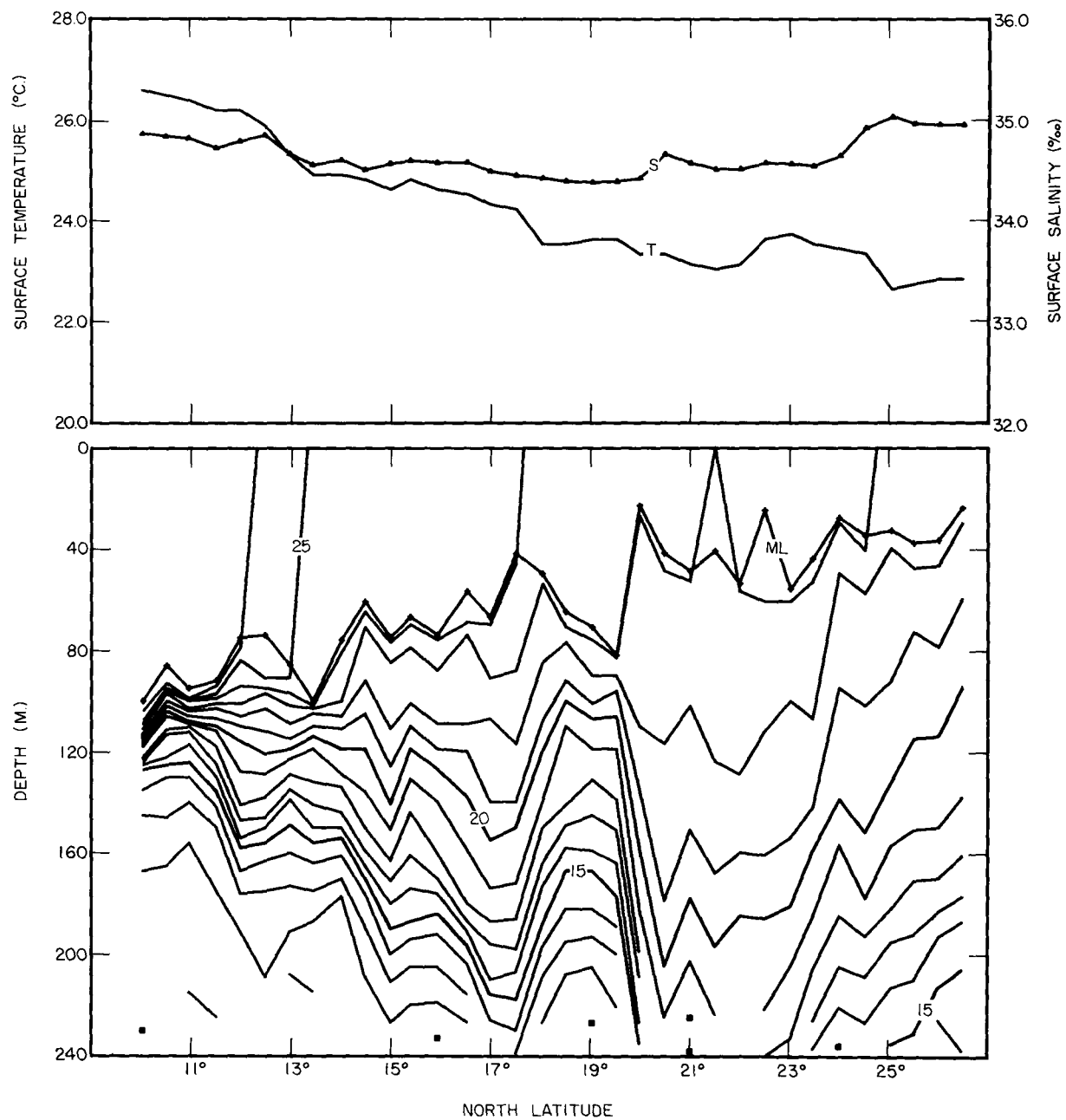


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

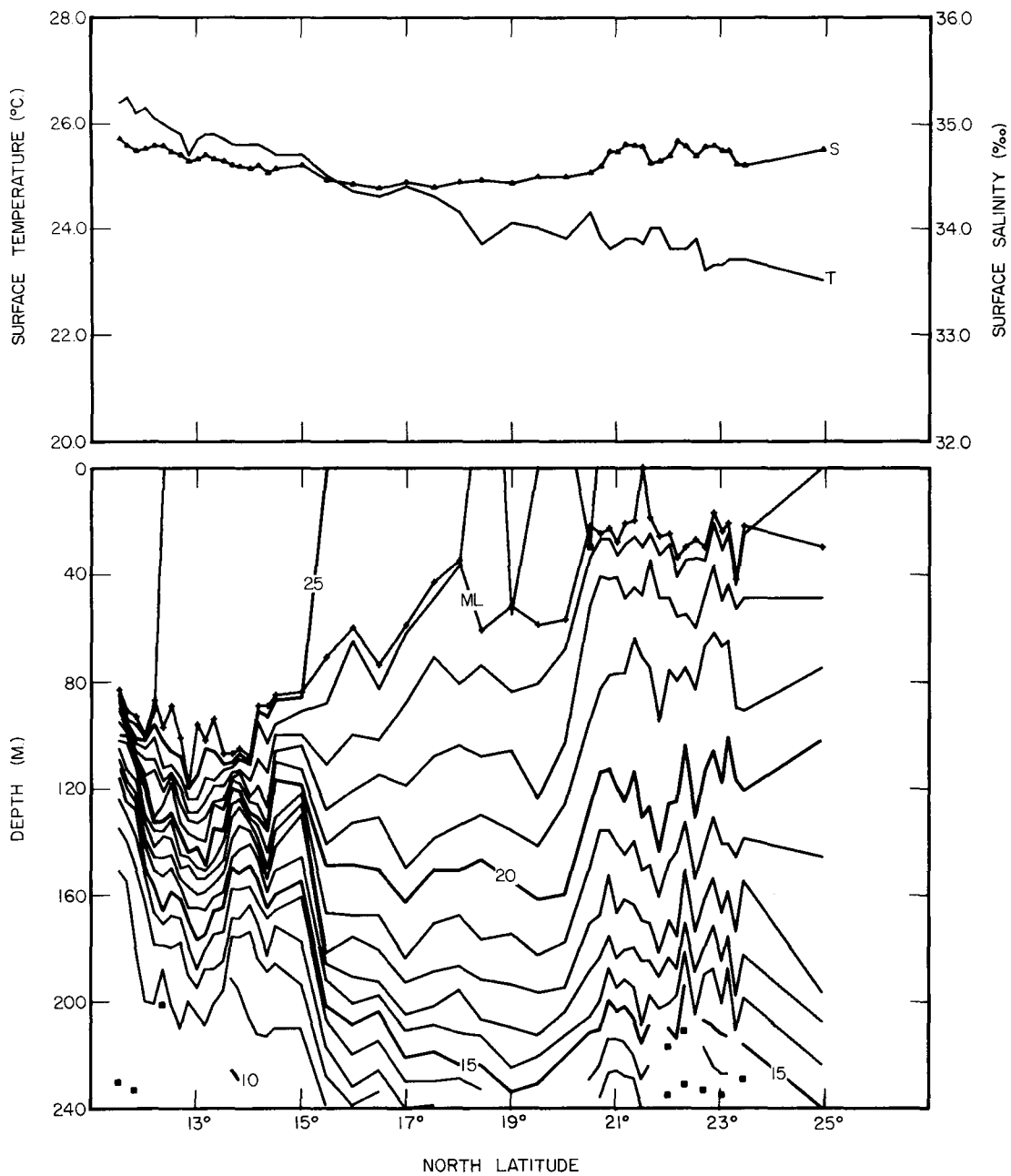


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

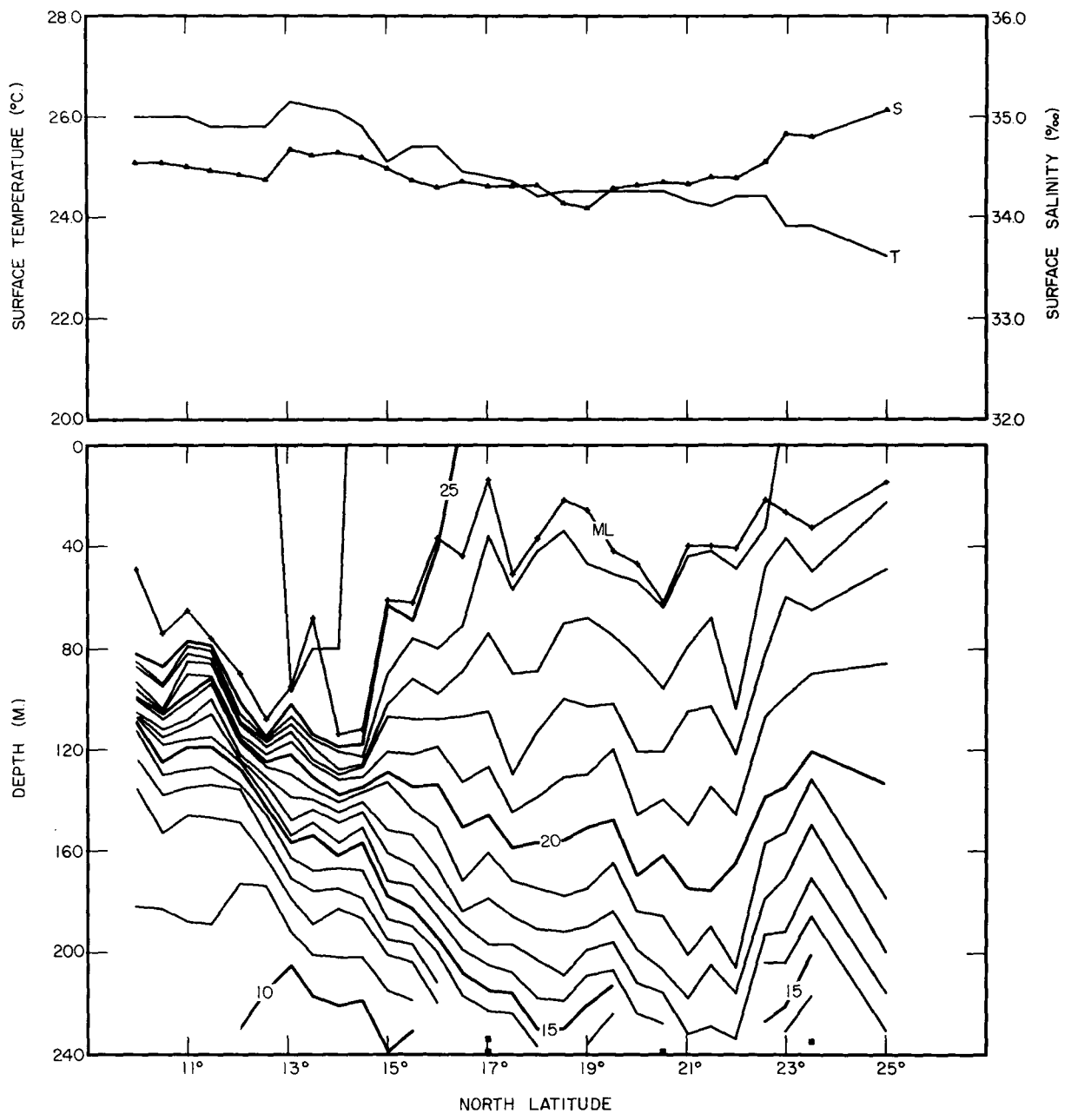


Figure 4.--Surface temperatures (° C.) and salinities (‰) (upper panel) and BT temperature (° C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

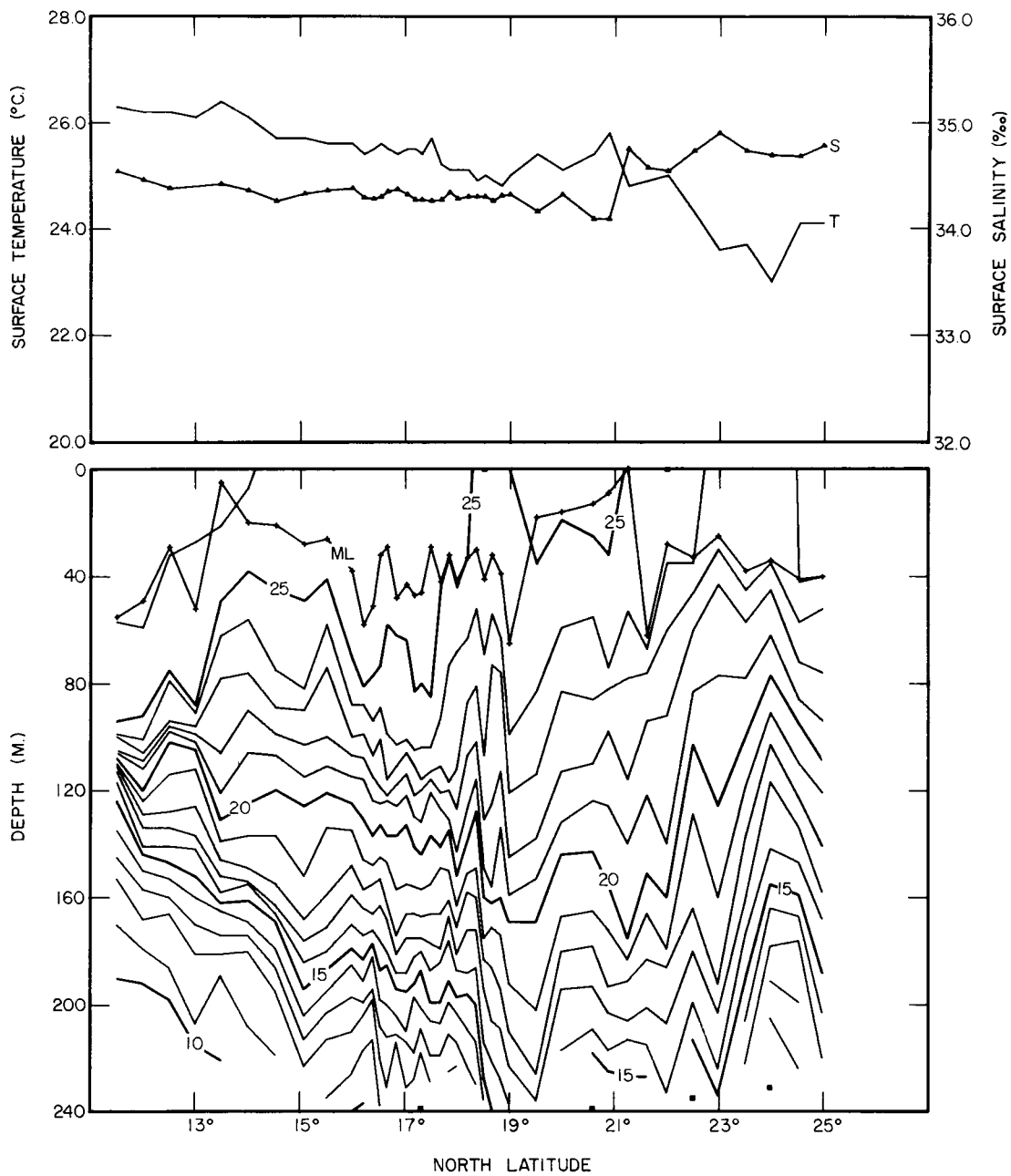


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

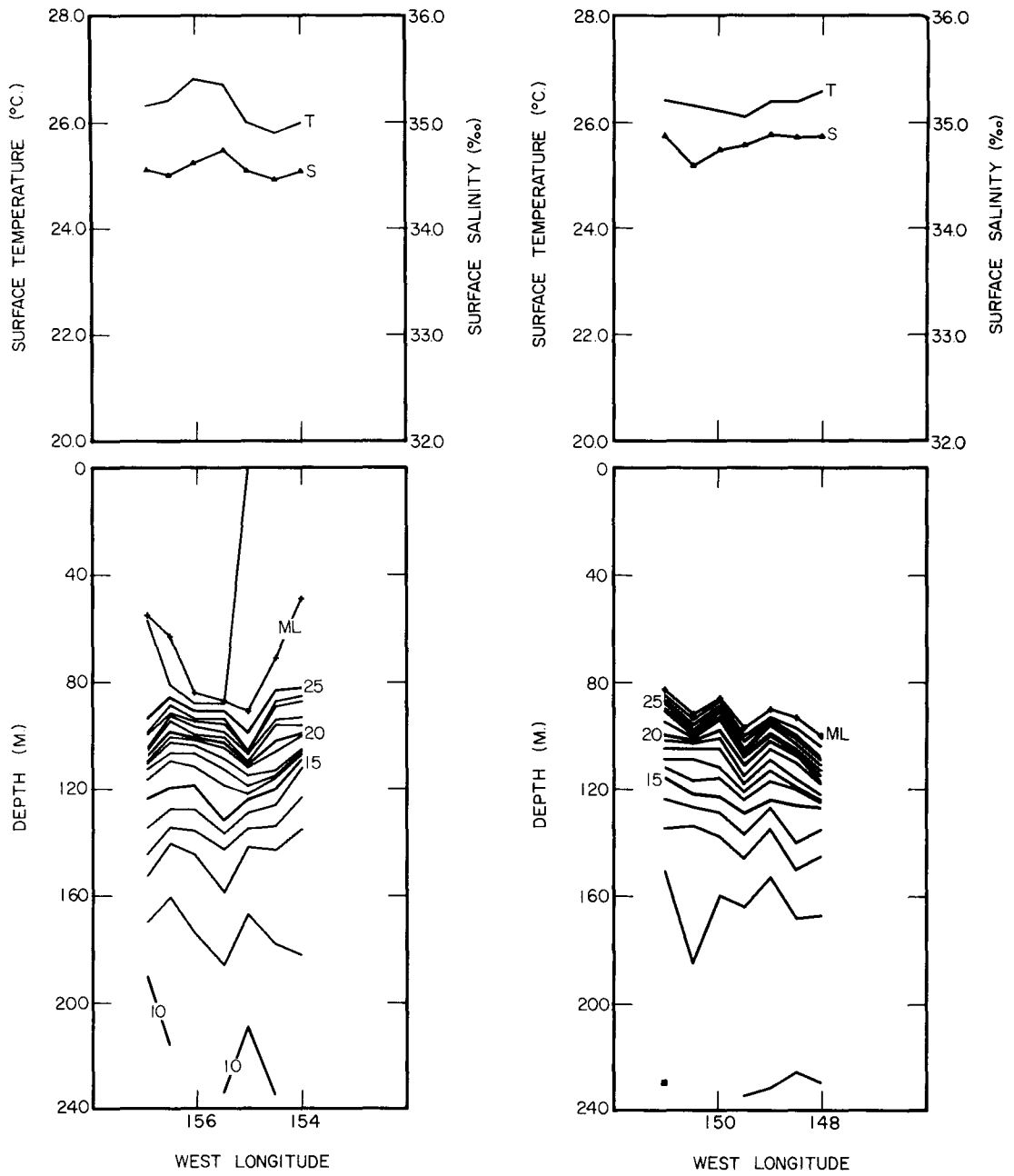


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 16 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

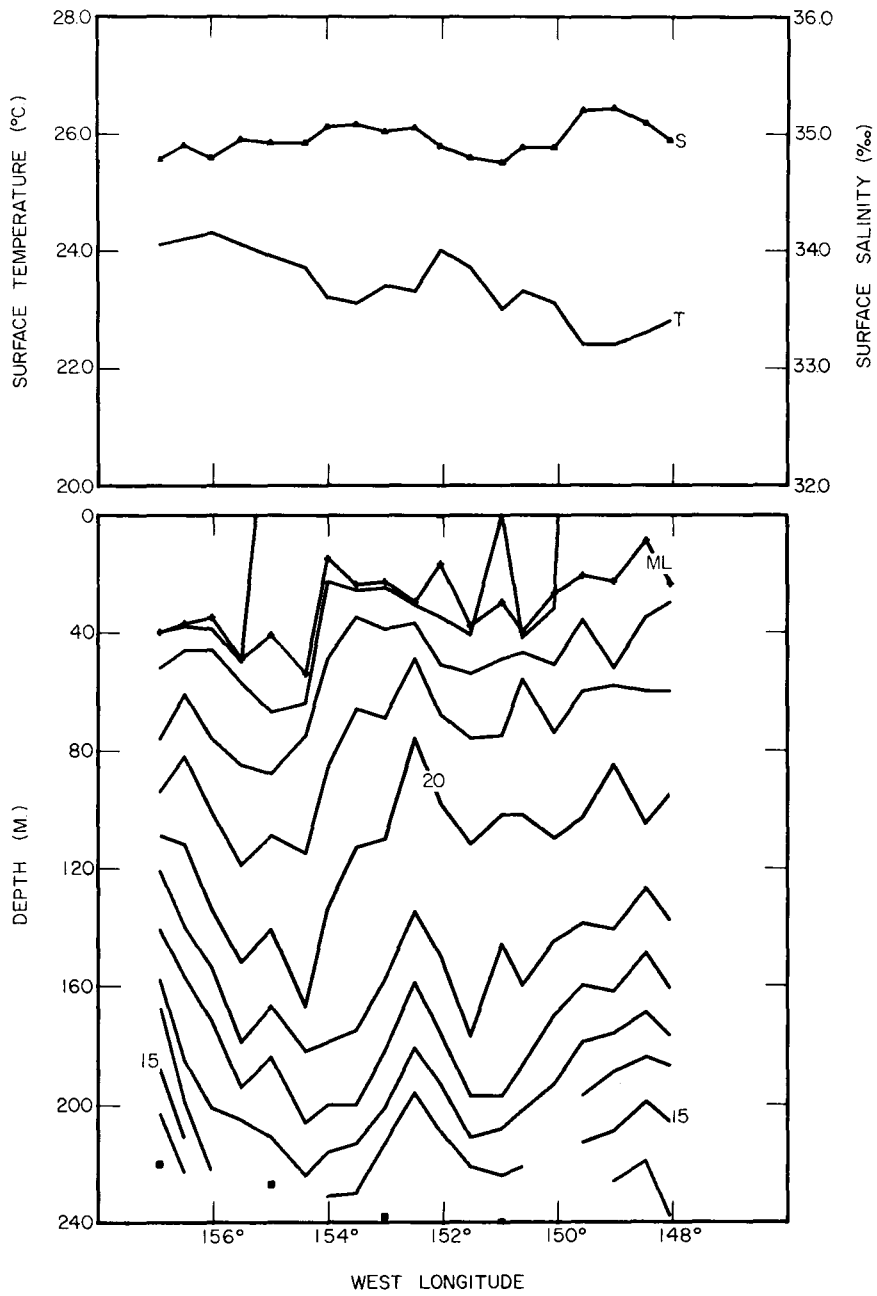


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Crowell cruise 16 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

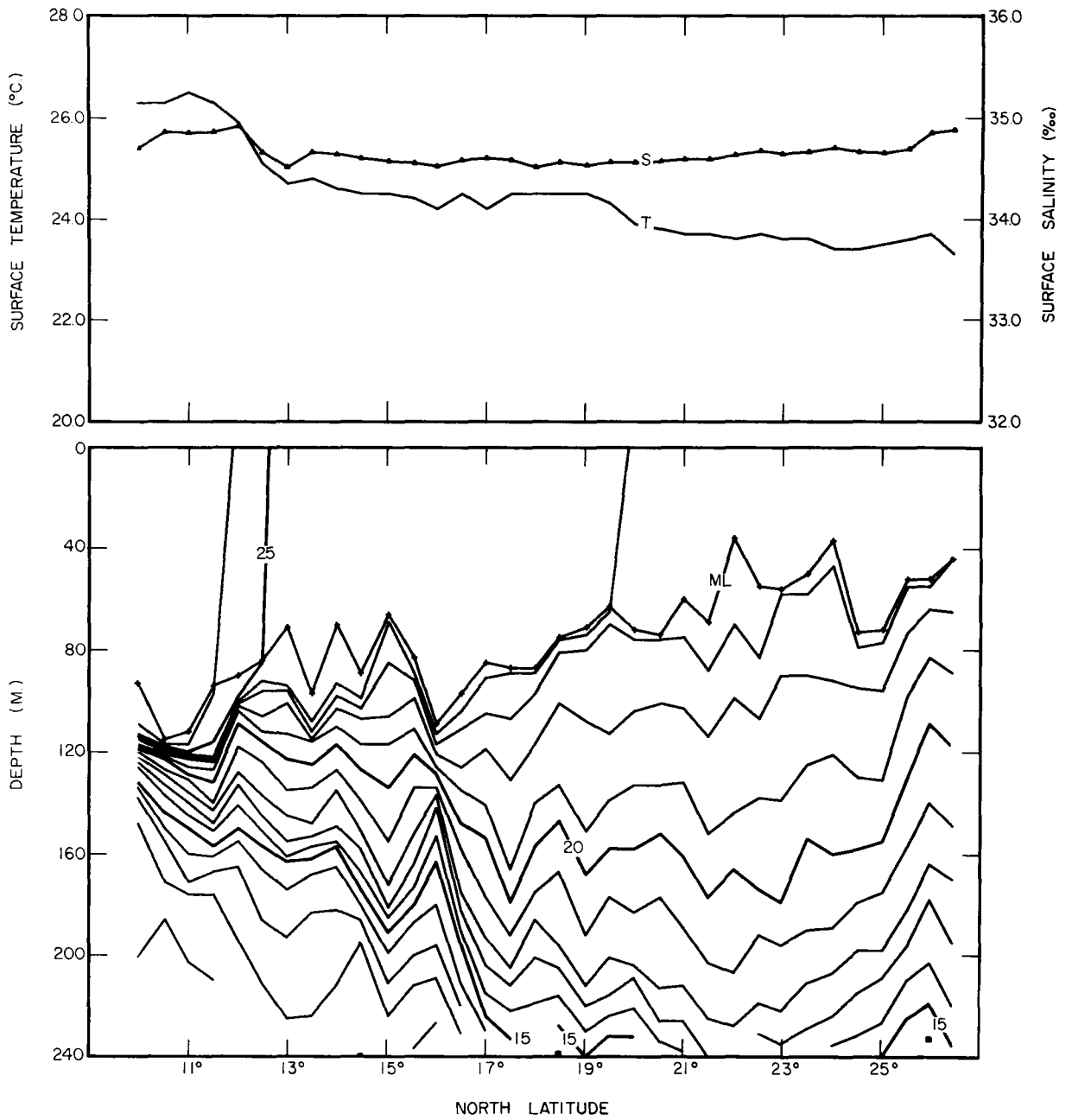


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

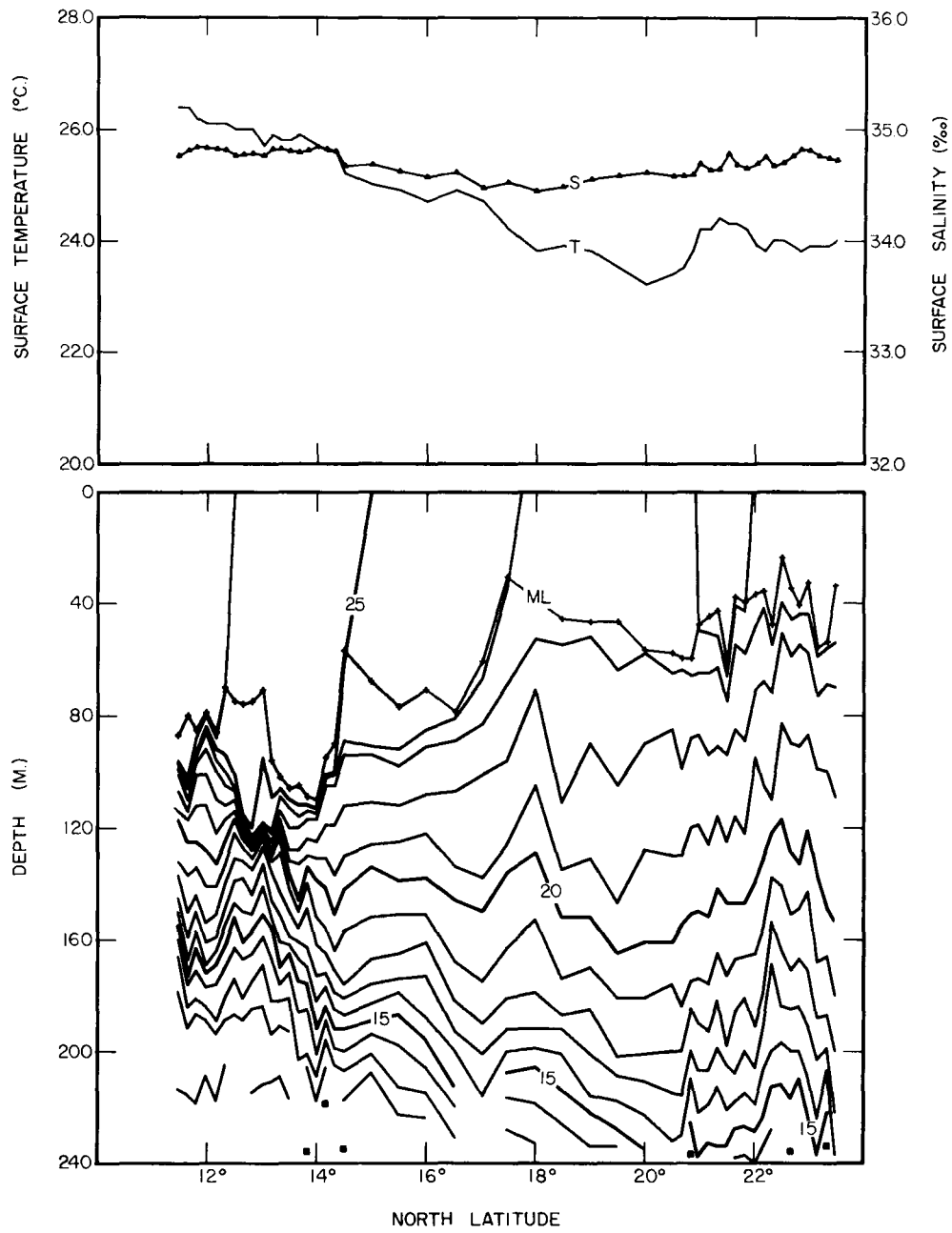


Figure 9.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

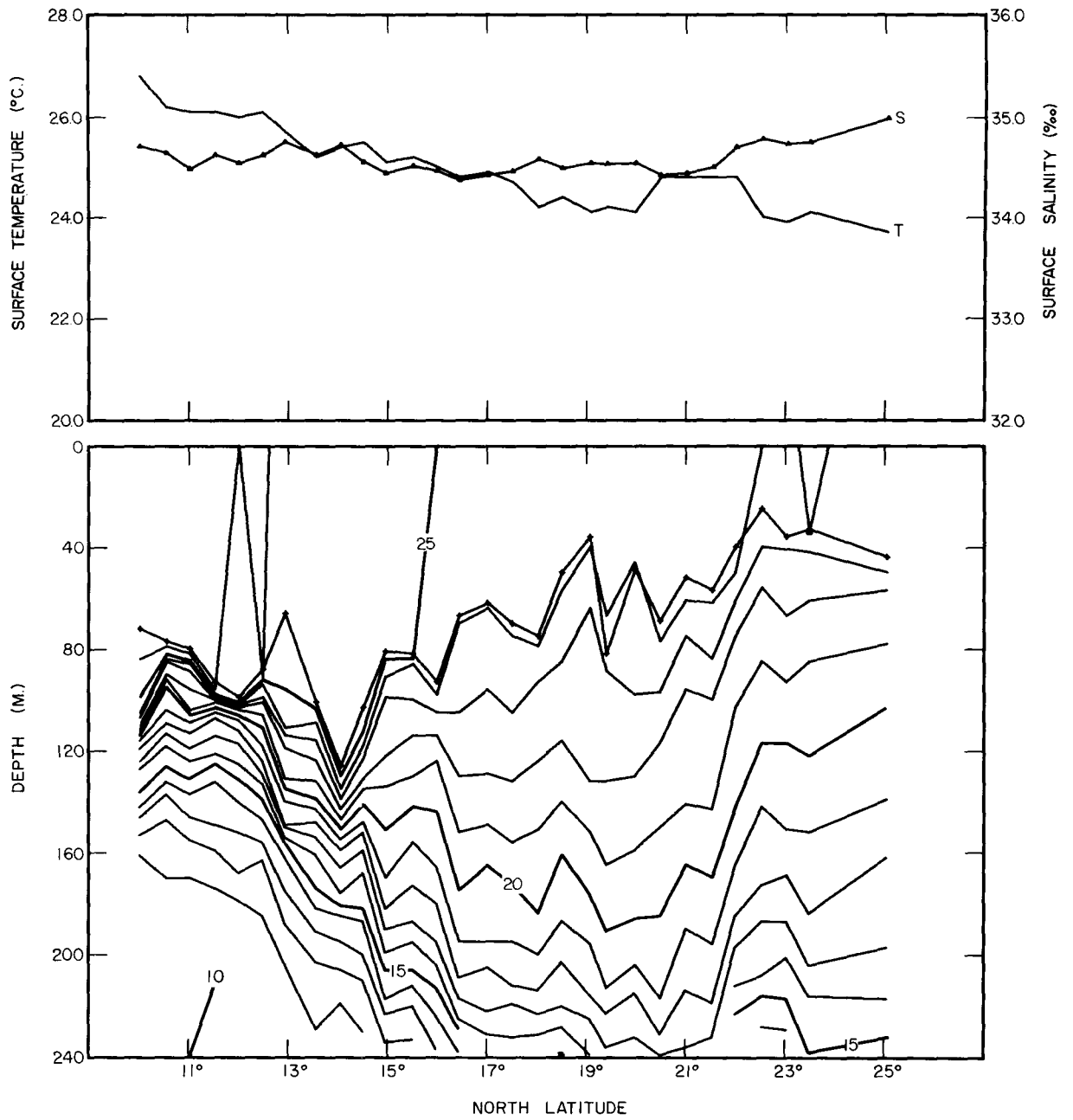


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

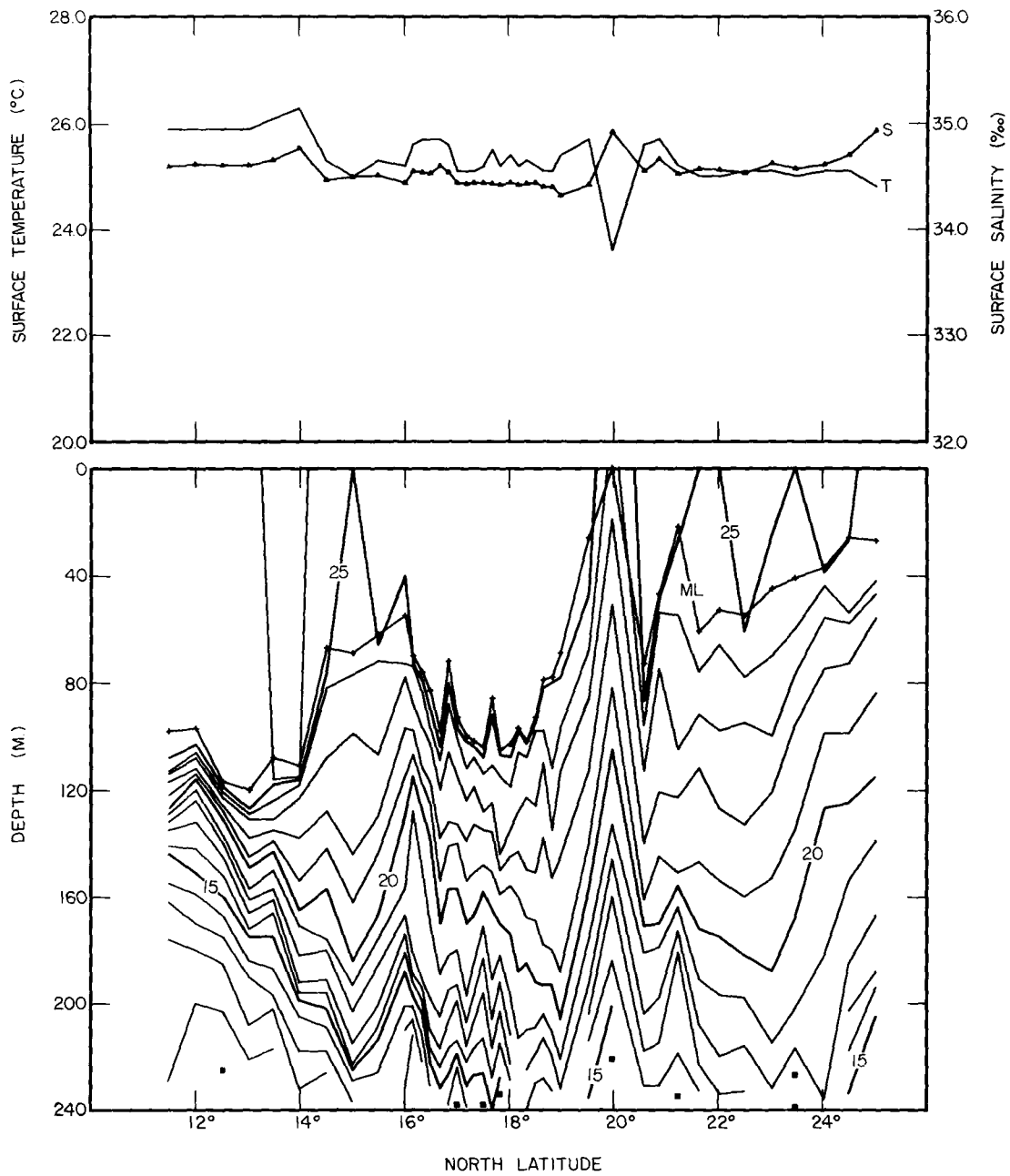


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

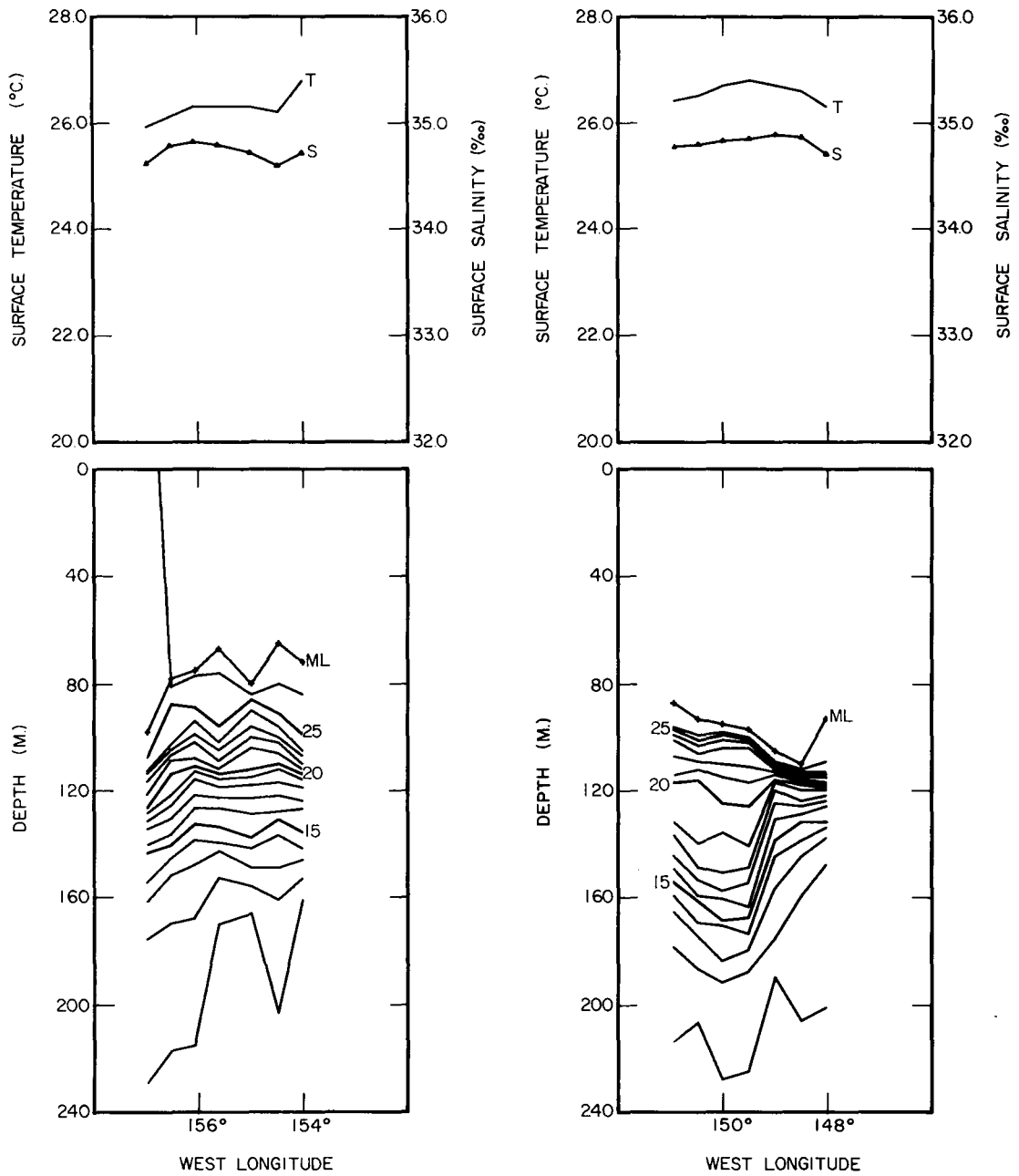


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

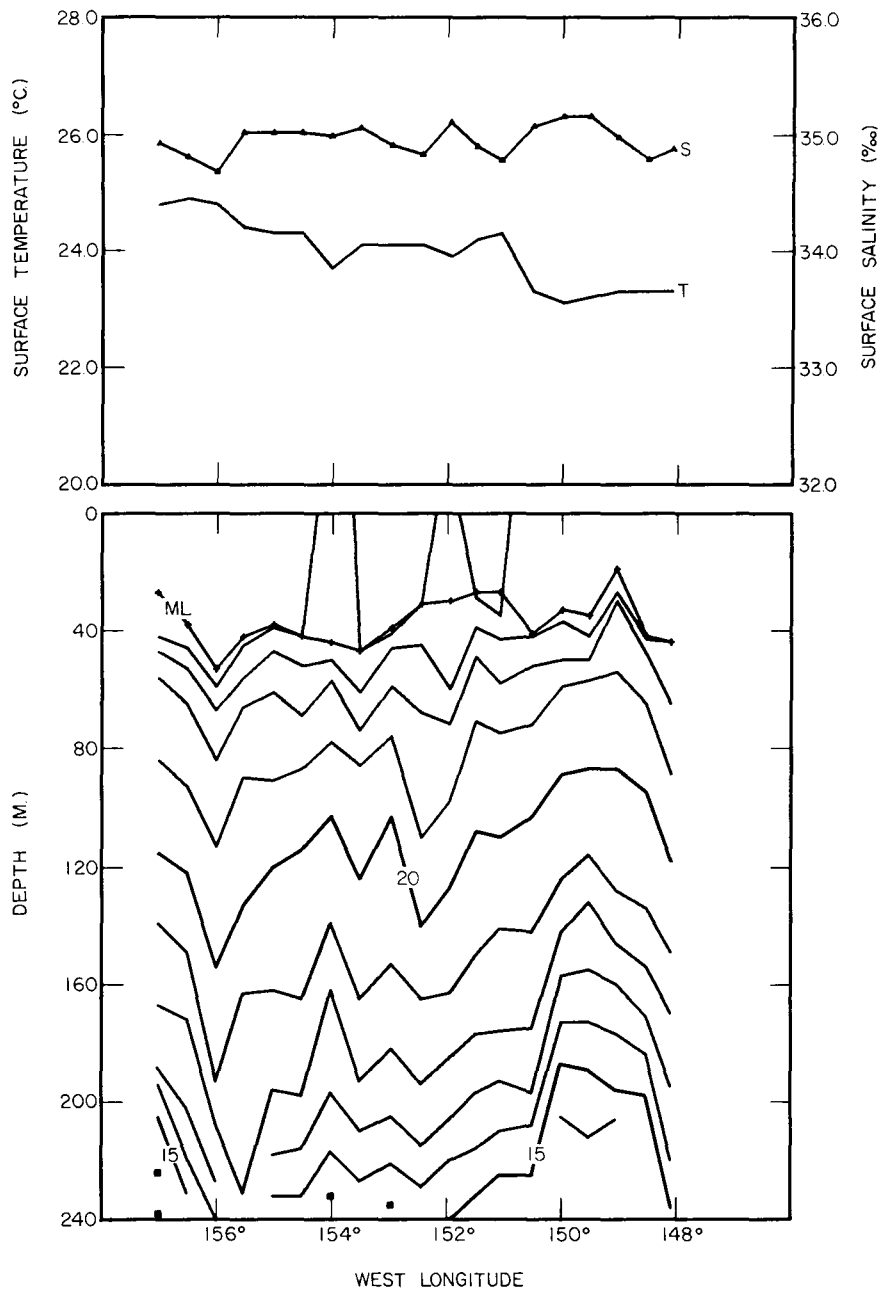


Figure 13.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 17 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

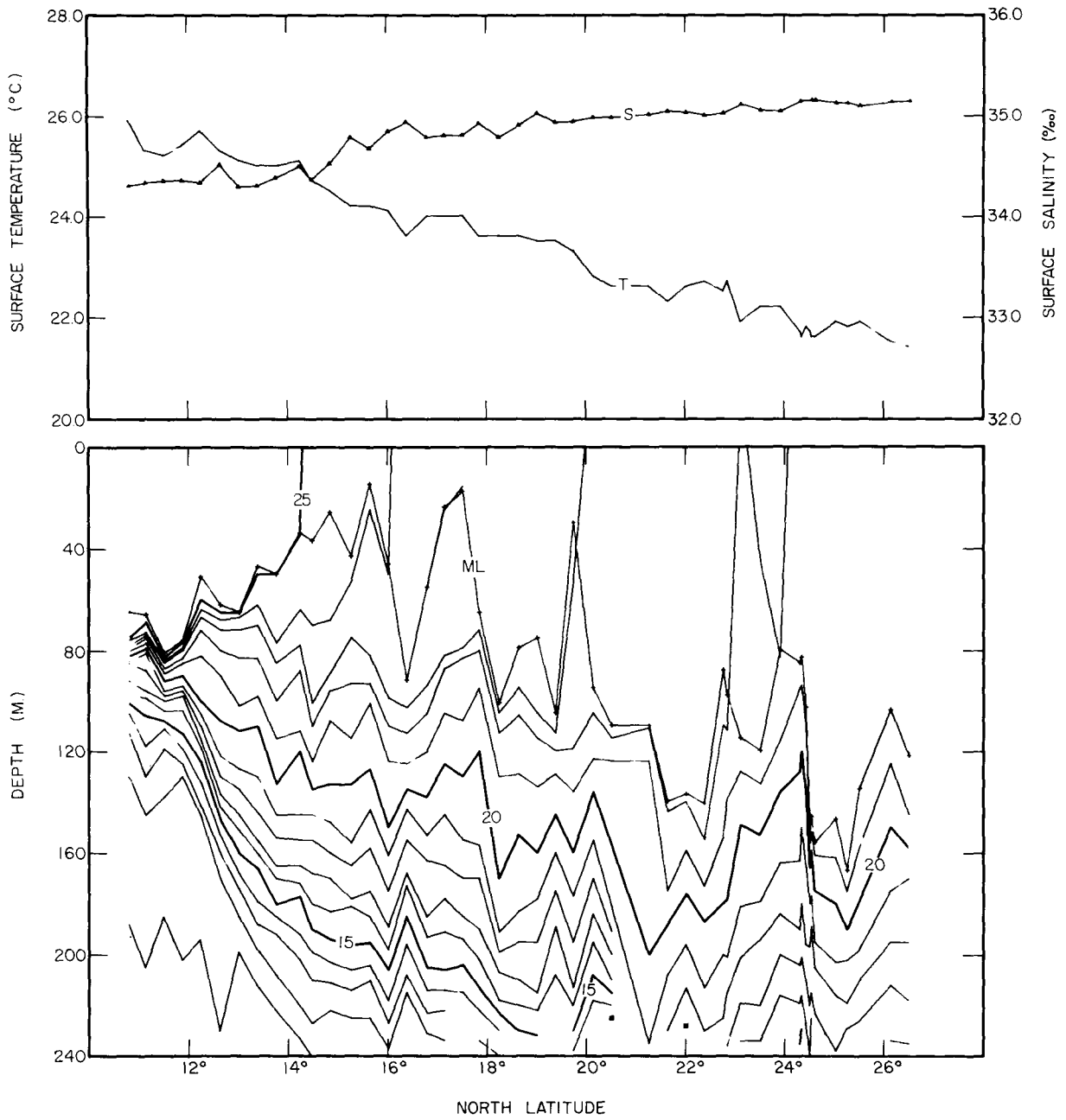


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 21 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

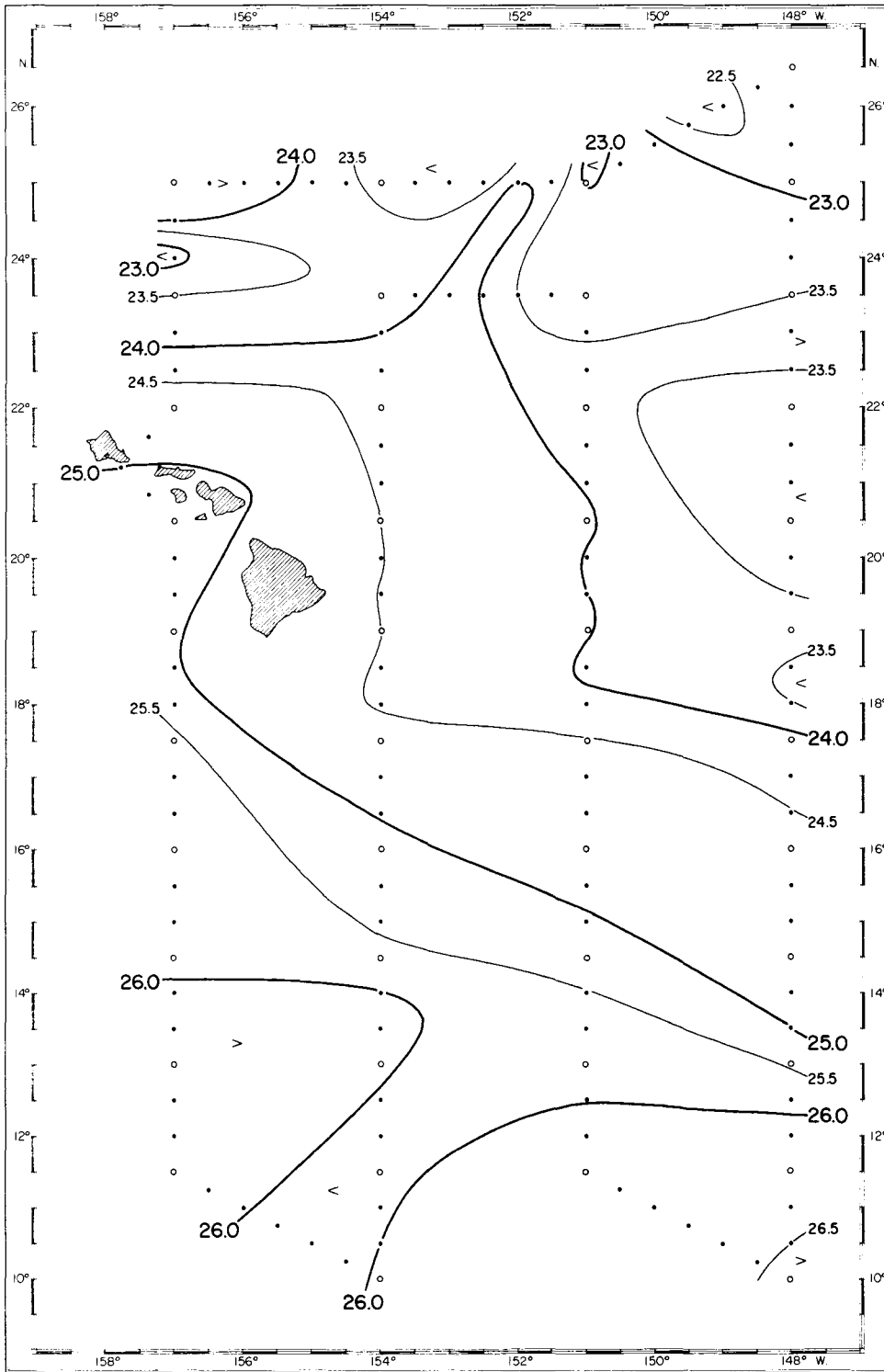


Figure 15.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 16.

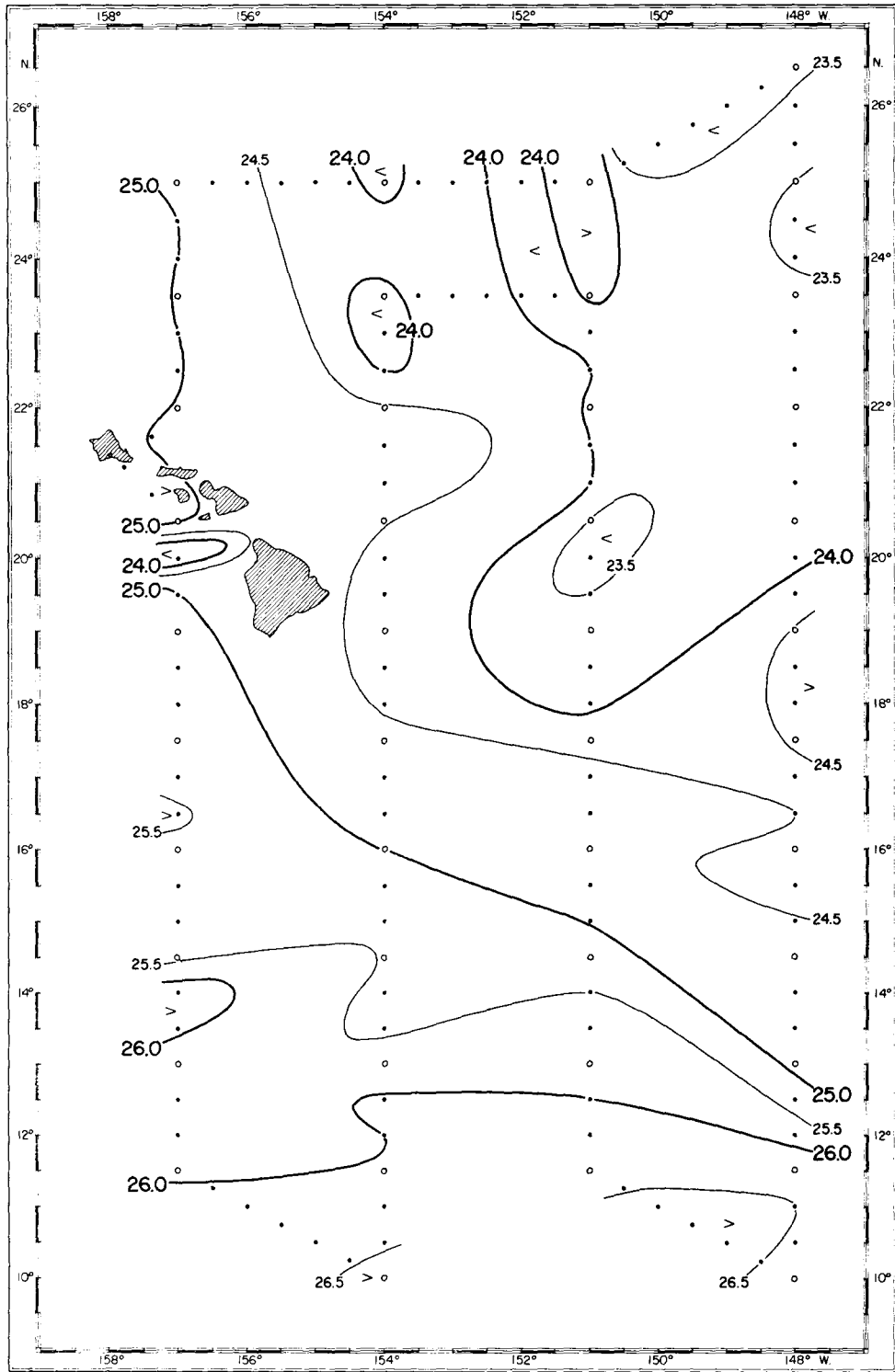


Figure 16.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 17.

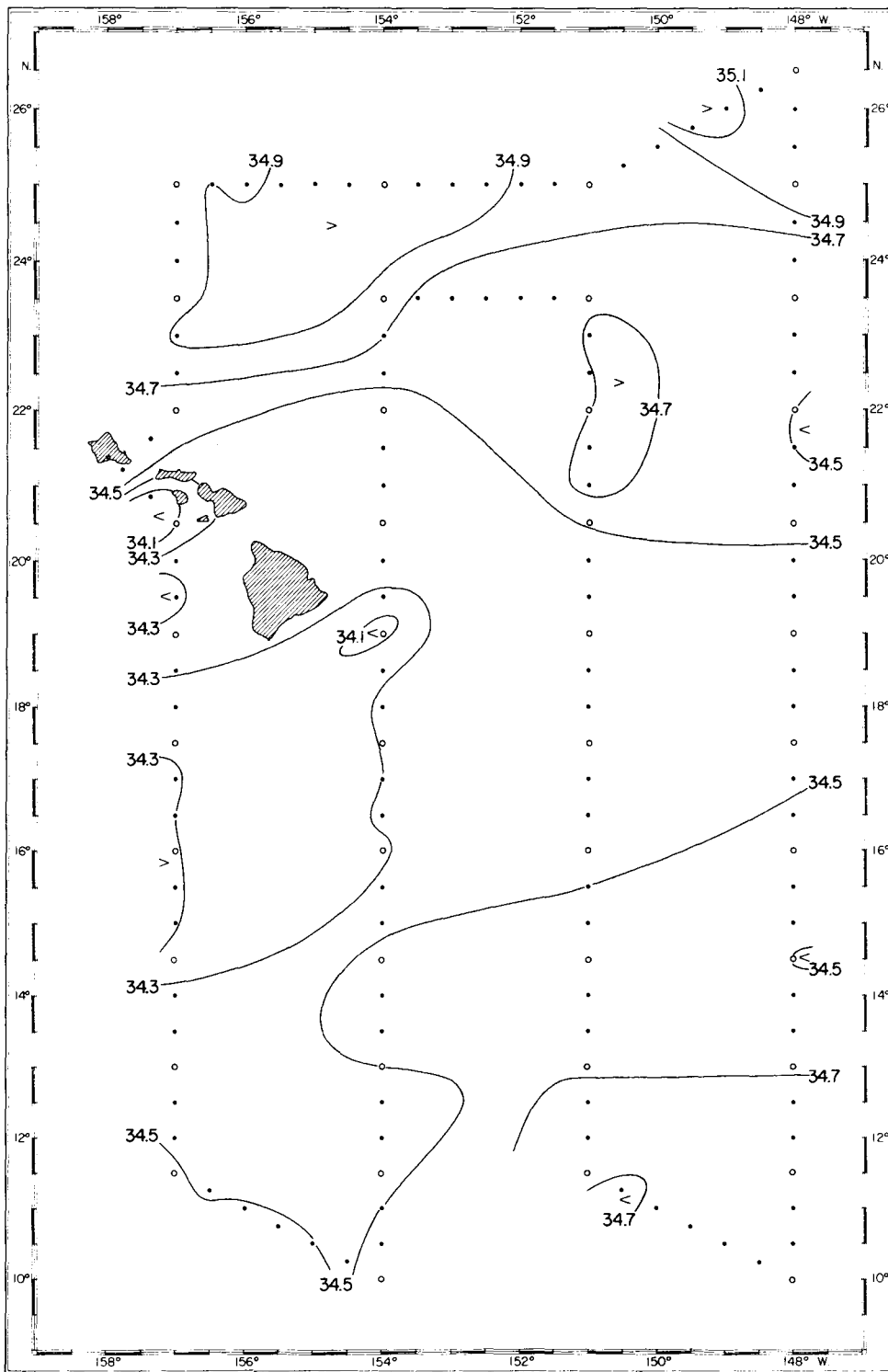


Figure 17.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 16.

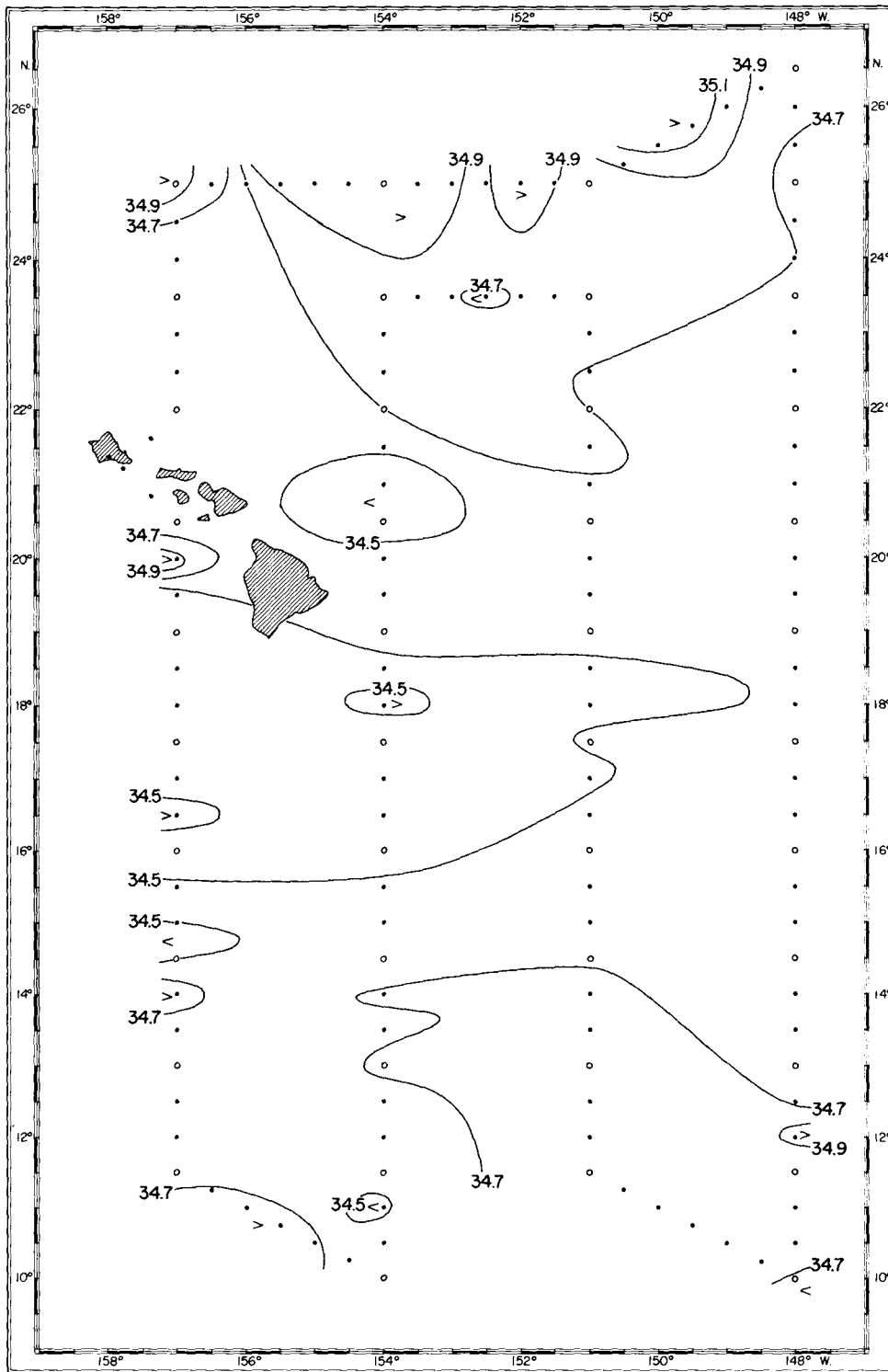


Figure 18.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 17.

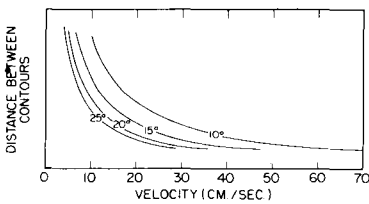
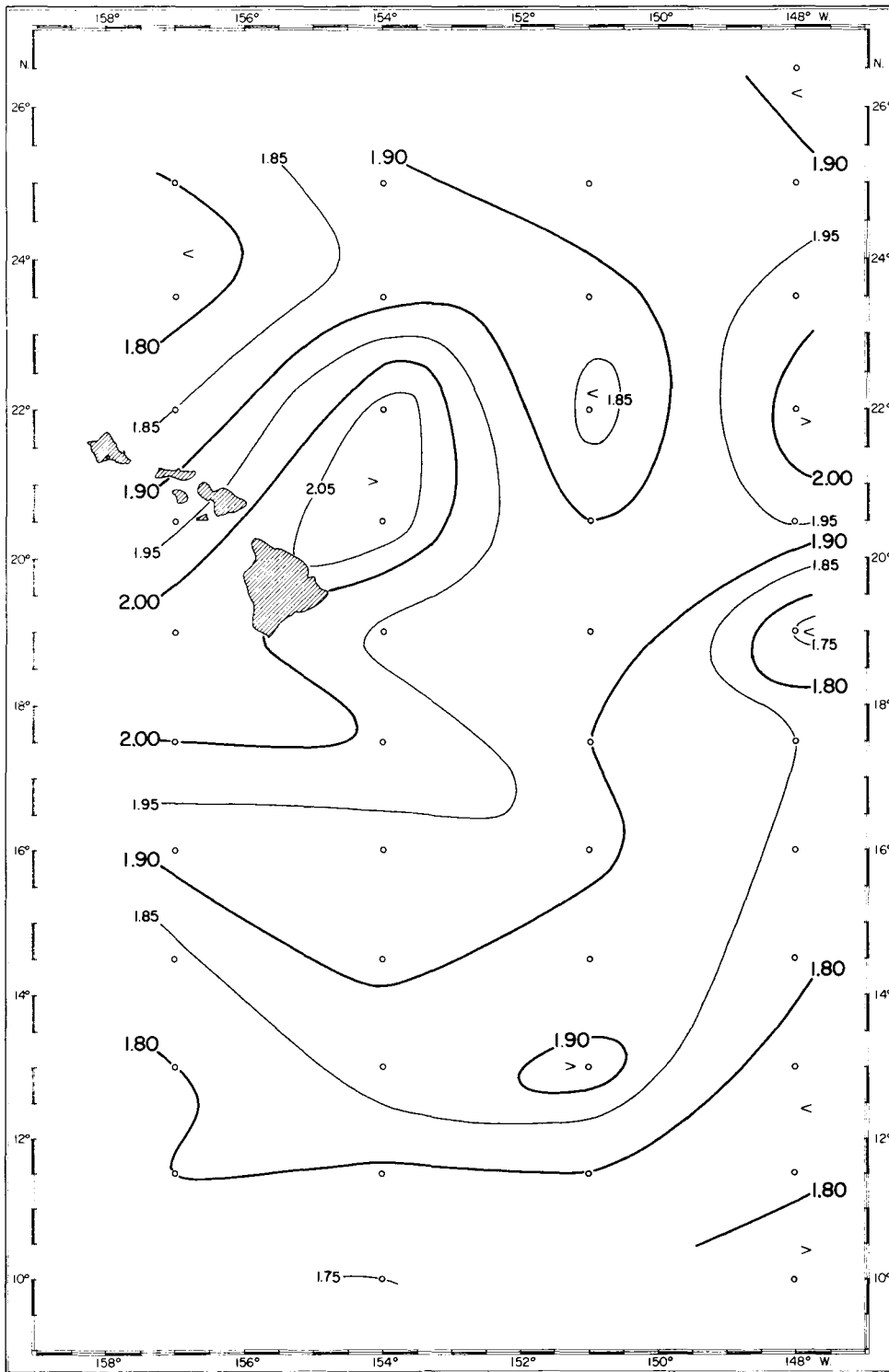


Figure 19.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 16.

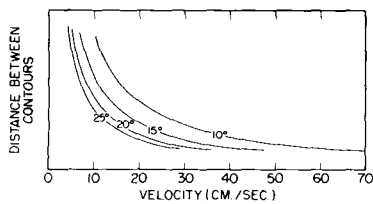
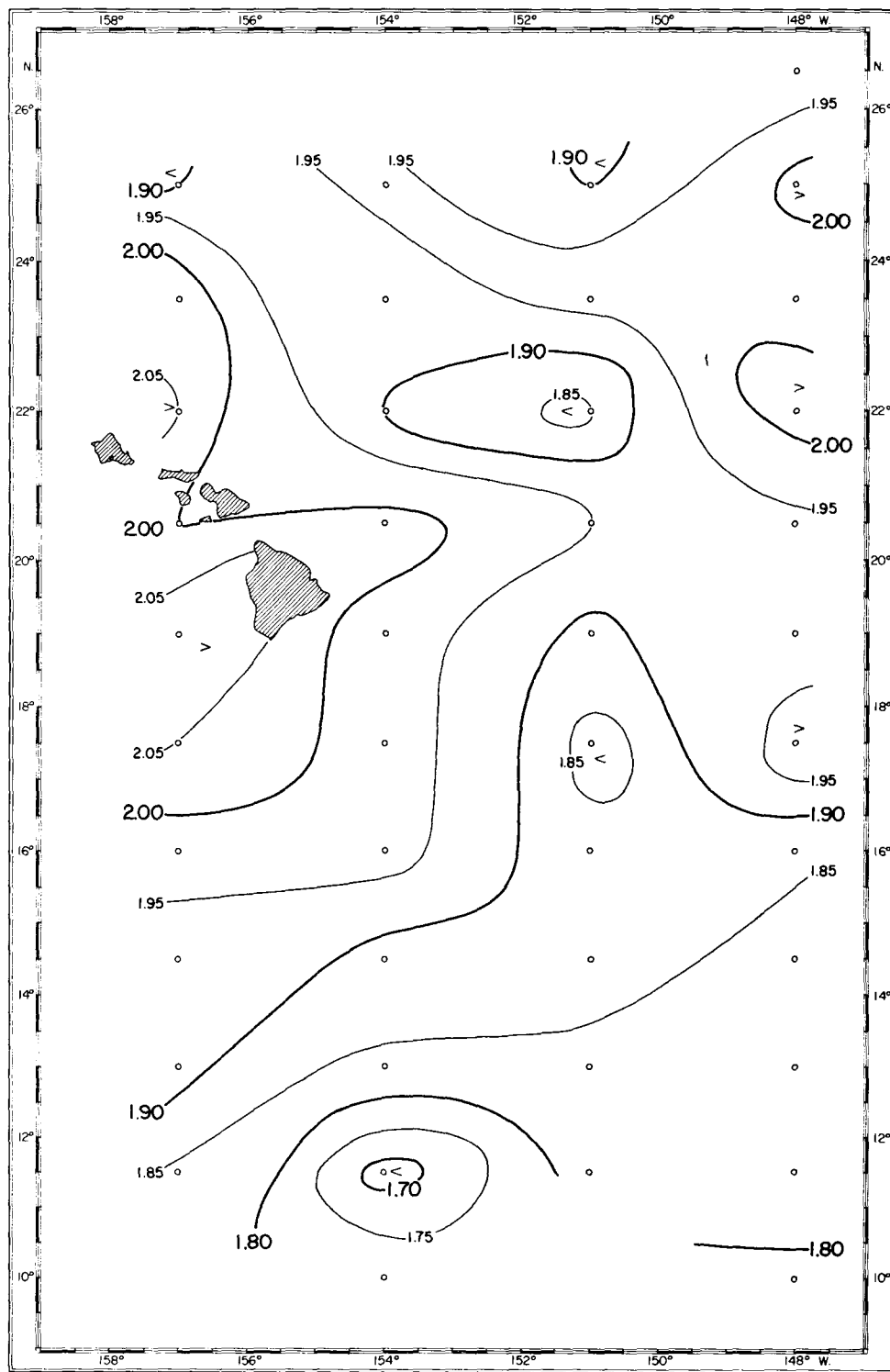


Figure 20.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 17.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as sigma-t; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 16

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 23.7		16, STATION WET BULB 21.1	1, 20-35N LAT, 157-15W LONG, MAY 13, 1965, 0500 G.C.T.		WIND SPEED 09, DIR. 14	BAR. 16	WEATHER 21	VIS. 8	CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.37	34.11			22.58	527.7	0	25.37	34.11	22.58	527.7	0.000
10	25.41	34.11			22.57	529.3	10	25.41	34.11	22.57	529.3	0.053
50	24.01	34.90			23.58	433.6	20	25.19	34.28	22.76	511.2	0.106
76	22.93	35.07			24.03	392.3	30	24.89	34.47	22.99	489.2	0.156
100	22.17	35.12			24.28	368.9	50	24.01	34.90	23.58	433.6	0.249
124	20.85	35.11			24.93	308.9	75	22.97	35.07	24.01	393.6	0.353
150	19.47	35.01			25.21	282.2	100	22.17	35.12	24.28	368.9	0.449
174	17.82	34.84			25.42	265.1	150	19.47	35.01	24.93	308.9	0.620
199	16.63	34.71			25.46	251.1	200	18.57	34.70	25.41	264.2	0.764
225	14.95	34.53			25.64	242.4	250	13.58	34.43	25.85	222.3	0.887
250	13.58	34.43			25.85	222.3	300	10.79	34.20	26.21	188.3	0.991
275	11.67	34.26			26.10	199.0	400	8.19	34.17	26.61	150.3	1.161
300	10.79	34.20			26.21	188.3	500	6.51	34.20	26.88	125.5	1.301
399	8.21	34.17			26.61	150.6	600	5.68	34.30	27.06	108.4	1.419
500	6.51	34.20			26.88	125.5	700	5.06	34.39	27.21	95.0	1.522
599	5.69	34.30			27.06	108.6	800	4.62	34.46	27.31	85.4	1.613
799	4.62	34.46			27.31	85.5	1000	4.17	34.51	27.40	78.2	1.778
999	4.17	34.51			27.40	78.2	1200	3.52	34.55	27.50	69.1	1.927
1200	3.52	34.55			27.50	69.1	1500	2.81	34.60	27.60	59.0	2.122
1501	2.81	34.60			27.60	58.9						

SALINITY ERROR TERM AT 20. METERS IS 0.06
SALINITY ERROR TERM AT 30. METERS IS 0.08

CROMWELL DRY BULB 23.5		16, STATION WET BULB 21.0	2, 18-59N LAT, 157-0W LONG, MAY 13, 1965, 1500 G.C.T.		WIND SPEED 18, DIR. 13	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 6, COVER 6			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.11	34.33			22.82	504.3	0	25.11	34.33	22.82	504.3	0.000
9	25.11	34.34			22.83	503.9	10	25.10	34.34	22.84	503.5	0.051
46	24.82	34.51			23.05	484.7	20	25.04	34.38	22.88	499.3	0.101
69	24.70	34.59			23.14	476.4	30	24.97	34.43	22.94	484.3	0.151
91	24.04	34.68			23.41	451.9	50	24.82	34.52	23.06	463.8	0.250
114	23.21	34.91			23.83	413.0	75	24.55	34.61	23.20	471.1	0.370
136	22.56	35.05			24.12	385.9	100	23.71	34.77	23.57	436.8	0.484
159	20.67	34.93			24.55	345.3	150	21.44	34.99	24.38	361.0	0.686
183	19.43	34.92			24.87	315.6	200	18.56	34.87	25.05	298.6	0.852
205	18.25	34.84			25.11	293.4	250	14.53	34.45	25.67	240.1	0.988
228	16.08	34.59			25.43	262.5	300	11.48	34.22	26.10	198.8	1.098
250	14.53	34.45			25.67	240.1	400	7.89	34.12	26.62	149.2	1.274
273	13.05	34.32			25.88	220.5	500	6.57	34.20	26.87	126.2	1.413
363	8.72	34.13			26.50	160.7	600	5.68	34.31	27.07	108.0	1.531
455	7.16	34.16			26.76	136.9	700	5.19	34.40	27.20	96.2	1.634
545	6.08	34.25			26.97	116.7	800	4.82	34.46	27.29	88.1	1.727
729	5.10	34.42			27.23	93.7	1000	4.10	34.53	27.42	76.1	1.894
912	4.43	34.50			27.36	81.3	1200	3.51	34.56	27.51	68.3	2.040
1054	3.91	34.54			27.45	73.3						
1284	3.31	34.56			27.53	66.4						

CROMWELL DRY BULB 26.0		16, STATION WET BULB 22.8	3, 17-29N LAT, 156-59W LONG, MAY 14, 1965, 0000 G.C.T.		WIND SPEED 18, DIR. 14	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 6, COVER 6			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.58	34.26			22.63	523.1	0	25.58	34.26	22.63	523.1	0.000
10	25.54	34.26			22.64	522.3	10	25.54	34.26	22.64	522.3	0.053
51	25.21	34.23			22.72	516.4	20	25.46	34.25	22.66	520.9	0.105
77	25.18	34.26			22.75	514.4	30	25.37	34.24	22.68	519.5	0.158
101	24.02	34.32			23.14	477.7	50	25.22	34.23	22.72	516.5	0.262
125	20.35	34.72			24.48	351.1	75	25.20	34.26	22.74	515.2	0.392
152	18.80	34.79			24.93	308.5	100	24.10	34.31	23.11	480.5	0.517
176	16.78	34.60			25.28	275.7	150	18.88	34.80	24.92	309.9	0.716
202	14.13	34.34			25.67	238.6	200	14.33	34.36	25.64	241.3	0.855
227	12.43	34.24			25.94	213.4	250	11.31	34.26	26.16	192.3	0.965
252	11.23	34.26			26.18	190.6	300	9.78	34.38	26.53	157.7	1.053
278	10.25	34.33			26.41	169.0	400	8.66	34.48	26.79	134.6	1.200
303	9.73	34.39			26.54	156.5	500	7.74	34.51	26.95	120.2	1.329
404	8.63	34.48			26.79	134.2	600	7.01	34.51	27.05	111.0	1.446
507	7.68	34.51			26.96	119.4	700	6.36	34.51	27.14	103.0	1.554
607	6.96	34.51			27.06	110.5	800	5.78	34.52	27.22	96.1	1.655
813	5.71	34.52			27.23	95.3	1000	4.81	34.51	27.33	86.2	1.839
1009	4.77	34.51			27.33	85.9	1200	4.04	34.55	27.44	75.7	2.003
1212	4.00	34.55			27.45	75.1	1500	3.13	34.59	27.57	63.8	2.215
1514	3.10	34.59			27.57	63.3						

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 16, STATION 4, 15-59N LAT, 157- 0W LONG, MAY 14, 1965, 1100 G.C.T.													
DRY BULB	24.9	WET BULB	23.2	WIND SPEED	15, DIR. 16	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	6, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.71	34.36			22.66	519.7	0	25.71	34.36	22.66	519.7	0.000	
10	25.73	34.37			22.66	519.9	10	25.73	34.37	22.66	519.9	0.052	
52	25.30	34.43			22.84	504.6	20	25.67	34.39	22.69	517.4	0.105	
77	25.02	34.44			22.93	496.7	30	25.58	34.40	22.73	514.1	0.157	
101	22.66	34.81			23.91	404.6	50	25.33	34.43	22.83	505.6	0.259	
127	19.29	34.71			24.74	325.4	75	25.08	34.43	22.91	499.1	0.386	
153	17.07	34.58			25.19	283.1	100	22.79	34.80	23.86	409.0	0.500	
177	15.08	34.47			25.56	248.1	150	17.30	34.60	25.15	287.0	0.676	
203	12.51	34.26			25.94	212.8	200	12.79	34.28	25.90	216.3	0.802	
228	11.22	34.22			26.15	192.8	250	10.08	34.19	26.33	175.9	0.901	
253	9.95	34.19			26.35	173.8	300	9.14	34.30	26.57	153.2	0.984	
278	9.59	34.30			26.49	160.3	400	8.01	34.41	26.83	129.6	1.127	
304	9.05	34.30			26.58	152.2	500	7.59	34.52	26.98	116.9	1.251	
404	7.99	34.42			26.84	128.9	600	6.83	34.52	27.09	107.5	1.365	
508	7.56	34.53			26.99	116.2	700	6.12	34.51	27.17	100.0	1.470	
609	6.75	34.52			27.10	106.8	800	5.55	34.51	27.24	93.7	1.567	
811	5.49	34.51			27.25	93.0	1000	4.79	34.55	27.36	83.2	1.746	
1014	4.74	34.55			27.37	82.6	1200	4.01	34.56	27.46	74.2	1.906	
1166	4.05	34.55			27.45	75.3							
1406	3.41	34.58			27.53	67.1							

CROMWELL 16, STATION 5, 14-32N LAT, 157- 2W LONG, MAY 14, 1965, 2000 G.C.T.													
DRY BULB	26.5	WET BULB	24.0	WIND SPEED	14, DIR. 14	BAR.	15	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.81	34.25			22.55	530.6	0	25.81	34.25	22.55	530.6	0.000	
10	25.80	34.25			22.55	530.7	10	25.80	34.25	22.55	530.7	0.053	
50	24.76	34.40			22.98	491.1	20	25.62	34.26	22.61	525.4	0.107	
75	24.02	34.72			23.44	447.8	30	25.39	34.28	22.70	517.1	0.159	
100	21.07	34.96			24.46	351.4	50	24.76	34.40	22.98	491.1	0.261	
125	19.45	34.90			24.85	315.5	75	24.02	34.72	23.44	447.8	0.379	
150	18.55	34.90			25.08	294.4	100	21.07	34.96	24.46	351.4	0.480	
175	14.63	34.41			25.62	243.0	150	18.55	34.90	25.08	294.4	0.642	
200	12.18	34.29			26.02	204.4	200	12.18	34.29	26.02	204.4	0.768	
226	11.35	34.48			26.33	175.9	250	11.01	34.62	26.50	160.2	0.860	
250	11.01	34.62			26.50	160.2	300	10.23	34.65	26.66	145.7	0.937	
276	10.70	34.67			26.59	151.7	400	8.76	34.59	26.86	128.1	1.075	
299	10.25	34.65			26.66	146.0	500	7.73	34.56	26.99	116.3	1.199	
400	8.76	34.59			26.86	123.1	600	6.89	34.52	27.08	108.6	1.312	
500	7.73	34.56			26.99	116.3	700	6.15	34.51	27.17	100.4	1.418	
601	6.88	34.52			27.08	108.5	800	5.53	34.52	27.25	92.7	1.515	
801	5.52	34.52			27.25	92.6	1000	4.62	34.55	27.38	81.0	1.691	
1001	4.62	34.55			27.38	80.9	1200	3.89	34.58	27.48	71.4	1.845	
1199	3.89	34.58			27.49	71.4	1500	3.11	34.62	27.59	61.1	2.047	
1500	3.11	34.62			27.59	61.1							

CROMWELL 16, STATION 6, 13- 0N LAT, 157- 4W LONG, MAY 15, 1965, 0500 G.C.T.													
DRY BULB	25.6	WET BULB	24.0	WIND SPEED	17, DIR. C9	BAR.	12	WEATHER	01	VIS.	9	CLOUD TYPE	8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.14	34.33			22.51	534.6	0	26.14	34.33	22.51	534.6	0.000	
10	26.13	34.33			22.51	534.7	10	26.13	34.33	22.51	534.7	0.054	
52	25.66	34.29			22.63	525.3	20	26.05	34.32	22.53	533.2	0.108	
75	25.43	34.29			22.70	519.4	30	25.95	34.31	22.55	531.3	0.161	
103	25.41	34.29			22.70	518.9	50	25.69	34.29	22.62	525.9	0.268	
129	19.27	34.77			24.80	319.7	75	25.43	34.29	22.70	519.4	0.399	
155	17.05	34.63			25.24	278.2	100	20.16	34.71	24.52	346.2	0.508	
180	13.94	34.36			25.72	232.0	150	14.52	34.41	25.64	240.1	0.656	
206	12.25	34.28			26.00	205.9	200	11.49	34.29	26.16	191.6	0.765	
231	11.29	34.30			26.20	187.6	250	10.14	34.41	26.49	160.4	0.854	
257	10.08	34.28			26.40	168.9	300	9.40	34.53	26.71	140.5	0.930	
283	10.22	34.47			26.52	157.8	400	8.19	34.54	26.90	123.0	1.063	
308	9.72	34.53			26.65	145.6	500	7.39	34.54	27.02	112.7	1.182	
410	9.26	34.53			26.73	138.6	600	6.56	34.54	27.14	102.6	1.290	
513	8.11	34.54			26.82	121.9	700	5.88	34.55	27.23	94.0	1.390	
614	7.29	34.54			27.04	111.6	800	5.35	34.56	27.31	87.5	1.481	
817	6.45	34.54			27.15	101.2	1000	4.61	34.56	27.39	80.1	1.651	
1020	5.27	34.56			27.32	86.5	1200	3.88	34.58	27.49	71.4	1.804	
1207	4.55	34.56			27.40	79.5							
1466	3.86	34.58			27.49	71.1							
	3.17	34.61			27.58	62.3							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.25

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		16, STATION		7, 11-30N LAT, 156-57W LONG, MAY		15, 1965, 1500 G.C.T.									
DRY BULB	26.0	WET BULB	24.2	WIND SPEED	13, DIR.	08	BAR.	12	WEATHER	16	VIS.	7	CLOUD TYPE	8, COVER	5
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	26.56	34.54			22.53	532.1	0	26.56	34.54	22.53	532.1	0.000			
11	26.50	34.54			27.52	533.4	10	26.59	34.54	22.52	533.3	0.054			
30 ^d	26.55	34.52			22.52	534.4	20	26.58	34.53	22.52	534.1	0.107			
51	26.50*	34.51			22.53	534.5	30	26.55	34.52	22.52	534.4	0.161			
76	25.9H	34.42			22.62	526.4	50	26.51	34.51	22.53	534.6	0.269			
100	22.9H	34.52			23.60	434.2	75	26.03	34.42	22.61	527.7	0.403			
126	14.4F	34.45			25.61	242.6	100	22.9E	34.52	23.60	434.2	0.524			
151	12.07	34.29			26.04	201.9	150	12.12	34.29	26.03	202.2	0.684			
175	10.69	34.21			26.24	183.1	200	10.60	34.47	26.45	163.1	0.776			
201	10.61	34.48			26.46	162.4	250	10.42	34.64	26.62	148.4	0.855			
225	10.75	34.63			26.55	154.4	300	9.54	34.62	26.75	136.4	0.927			
251	10.40	34.64			26.62	148.2	400	8.54	34.60	26.90	123.9	1.058			
276	9.72	34.62			26.72	138.8	500	7.71	34.57	27.00	115.2	1.179			
299	9.55	34.62			26.75	136.5	600	6.78	34.56	27.12	104.2	1.290			
400	8.54	34.60			26.90	123.9	700	6.07	34.56	27.22	95.9	1.391			
501	7.70	34.57			27.00	115.2	800	5.48	34.56	27.29	89.1	1.484			
599	6.79	34.56			27.12	104.3	1000	4.45	34.58	27.43	76.5	1.652			
799	5.49	34.56			27.25	89.2	1200	3.76	34.59	27.51	68.7	1.799			
999	4.45	34.58			27.43	76.5	1500	3.10	34.62	27.59	61.0	1.996			
1199	3.83	34.59			27.50	69.9									
1500	3.10	34.62			27.59	61.0									

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		16, STATION		7A, 9-58N LAT, 154-0W LONG, MAY		16, 1965, 1100 G.C.T.									
DRY BULB	23.5	WET BULB	23.0	WIND SPEED	16, DIR.	09	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	8, COVER	4
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	26.36	34.54	4.76		22.60	526.1	0	26.36	34.54	22.60	526.1	0.000			
10	26.39	34.53	4.90	0.42	22.5E	528.1	10	26.39	34.53	22.58	528.1	0.053			
30 ^d	26.38	34.53			27.5E	528.6	20	26.42	34.53	22.57	529.6	0.106			
50	25.93	34.55	5.04	0.40	22.74	514.5	30	26.38	34.53	22.58	528.6	0.160			
76	22.98	34.55	4.95	0.49	23.62	431.2	50	25.93	34.55	22.74	514.5	0.265			
101	18.9H	34.55	4.13	0.85	24.71	327.8	75	23.13	34.55	23.58	435.2	0.384			
125	13.23	34.51	1.43	1.41	25.99	206.2	100	19.17	34.56	24.66	332.4	0.481			
150	12.09	34.71	0.18		26.37	170.6	150	12.09	34.71	26.37	170.6	0.608			
175	11.69	34.73	0.20	1.77	26.47	161.0	200	11.27	34.76	26.56	153.3	0.689			
201	11.25	34.76	0.41	2.23	26.56	153.0	250	10.65	34.76	26.67	143.7	0.764			
226	10.94	34.75	0.50	2.27	26.61	148.9	300	10.13	34.75	26.75	136.6	0.835			
249	10.66	34.70	0.41	2.58	26.67	143.8	400	9.46	34.70	26.83	131.2	0.970			
276	10.42	34.75	0.41	1.62	26.70	141.0	500	8.63	34.65	26.92	123.4	1.099			
300	10.13	34.75	0.38	3.13	26.75	136.6	600	7.60	34.58	27.02	114.5	1.219			
400	9.46	34.70	0.28	2.62	26.83	131.2	700	6.55	34.56	27.15	102.5	1.328			
502	8.61	34.65	0.15	2.47	26.93	123.2	800	5.64	34.56	27.27	91.2	1.426			
602	7.58	34.5E	0.41	3.02	27.03	114.3	1000	4.68	34.57	27.39	80.2	1.600			
801	5.63	34.56			27.27	91.3	1200	3.75	34.59	27.50	69.1	1.751			
1001	4.68	34.57	0.96	2.60	27.35	80.2									
1144	3.85	34.5H	1.26	2.54	27.45	70.4									
1382	3.26	34.61	1.47	3.02	27.57	62.9									

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		16, STATION		K, 11-28N LAT, 153-59W LONG, MAY		16, 1965, 2000 G.C.T.									
DRY BULB	26.5	WET BULB	23.2	WIND SPEED	18, DIR.	07	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	8, COVER	3
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	26.00	34.46	4.82		22.65	521.1	0	26.00	34.46	22.65	521.1	0.000			
11	25.99	34.46	5.61	0.55	22.65	521.2	10	25.99	34.46	22.65	521.2	0.052			
51	25.92*	34.46	4.80	1.02	22.67	520.7	20	25.98	34.45	22.65	521.9	0.105			
76	25.84	34.56	4.82	0.33	22.77	512.1	30	25.96	34.45	22.65	522.1	0.158			
100	17.76	34.64	4.31	0.96	25.07	292.9	50	25.92	34.46	22.67	520.8	0.263			
124	14.29	34.40	2.87	1.53	25.6E	235.3	75	25.93	34.56	22.74	515.0	0.393			
151	12.17	34.52	0.94	2.44	26.20	186.1	100	17.76	34.64	25.07	292.9	0.495			
174	11.87	34.73	0.19	2.71	26.43	164.8	150	12.22	34.51	26.19	187.6	0.616			
200	11.27	34.72	0.25	2.74	26.52	156.6	200	11.29	34.72	26.52	156.6	0.703			
224	10.98	34.74	0.29	2.62	26.60	150.3	250	10.62	34.73	26.65	145.3	0.779			
249	10.63	34.73	0.40	2.19	26.65	145.5	300	10.14	34.72	26.73	139.0	0.851			
274	10.34	34.72	0.37	2.38	26.69	141.8	400	9.50	34.70	26.82	132.1	0.987			
299	10.15	34.72			26.73	139.1	500	8.65	34.63	26.90	125.4	1.117			
398	9.52	34.70	0.24	2.52	26.82	132.2	600	7.74	34.60	27.02	115.3	1.239			
498	8.67	34.63	0.22	2.74	26.90	125.6	700	6.76	34.57	27.13	104.7	1.350			
597	7.77	34.60	0.32	3.06	27.01	115.6	800	5.88	34.55	27.23	95.2	1.451			
794	5.92	34.55	0.61	2.89	27.23	95.7	1000	4.79	34.56	27.37	82.2	1.630			
992	4.82	34.56	1.00	2.42	27.37	82.6	1200	4.00	34.58	27.47	72.9	1.788			
1190	4.0P	34.5E	1.21	3.08	27.47	73.7									
1485	3.25	34.60	1.54	2.48	27.56	64.2									

FROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 9, 13-4N LAT, 154-3W LONG, MAY 17, 1965, 0600 G.C.T.													
DRY BULB 25.9		WET BULB 23.0		WIND SPEED 20, DIR. 06		BAR. 13		WEATHER C2		VIS. 7		CLOUD TYPE 9, COVER 3	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.57**	34.68	4.74		22.63	522.3	0	26.57	34.68	22.63	522.3	0.000	
11	26.55	34.68	4.91	0.29	22.64	522.2	10	26.55	34.68	22.64	522.2	0.053	
50	26.46	34.63	4.77	0.38	22.67	521.0	20	26.52	34.68	22.65	521.7	0.105	
76	26.53	34.69	4.61	0.36	22.66	523.5	30	26.49	34.68	22.66	521.3	0.158	
100	24.12	34.56	5.10	0.44	23.25	463.2	50	26.46	34.68	22.67	521.0	0.263	
126	19.62	34.79	4.67	0.67	24.72	327.7	75	26.55	34.69	22.65	524.0	0.394	
151	15.87	34.50	3.92	1.10	25.41	262.1	100	24.12	34.56	23.29	463.2	0.519	
176	12.69	34.29	3.24	1.62	25.92	213.3	150	16.01	34.52	25.39	264.0	0.702	
201	10.79	34.24	3.23	1.56	26.24	183.2	200	10.84	34.24	26.23	184.1	0.815	
227	10.65	34.45	1.40	2.42	26.43	165.9	250	10.45	34.57	26.56	154.4	0.900	
251	10.44	34.57	0.75	2.16	26.56	154.0	300	9.88	34.60	26.68	143.4	0.975	
277	10.10	34.60	0.53	2.40	26.64	146.6	400	8.69	34.59	26.87	126.9	1.112	
301	9.87	34.60	0.40	3.90	26.68	143.3	500	7.62	34.56	27.01	114.6	1.234	
402	8.66	34.59	1.34	2.88	26.87	126.6	600	6.85	34.51	27.07	108.8	1.346	
502	7.60	34.56	0.60	2.78	27.01	114.4	700	6.16	34.51	27.17	100.6	1.452	
602	6.84	34.51	0.52	2.97	27.08	108.7	800	5.55	34.53	27.26	92.2	1.550	
803	5.53	34.53	0.57	3.30	27.26	92.0	1000	4.64	34.54	27.37	81.9	1.726	
1003	4.63	34.54	1.00	3.13	27.37	81.8	1200	3.93	34.57	27.47	72.9	1.883	
1172	4.04*	34.57	1.42	3.20	27.46	73.7							
1441	3.25	34.59	1.72	2.98	27.56	64.6							

CROMWELL 16, STATION 10, 14-30N LAT, 154-0W LONG, MAY 17, 1965, 1600 G.C.T.													
DRY BULB 23.8		WET BULB 21.5		WIND SPEED 20, DIR. C2		BAR. 14		WEATHER C3		VIS. 7		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.09	34.55	5.05		22.69	517.3	0	26.09	34.55	22.69	517.3	0.000	
9	26.11	34.53	4.80	0.30	22.67	519.7	10	26.11	34.53	22.67	519.8	0.052	
50	26.12	34.55	4.75	0.30	22.68	520.2	20	26.11	34.52	22.66	520.7	0.105	
75	26.19	34.60	4.76	0.31	22.65	519.7	30	26.12	34.52	22.66	521.1	0.157	
98	26.19	34.72	4.72	0.48	22.78	512.0	50	26.12	34.55	22.62	520.2	0.262	
123	22.00	34.61		0.42	23.94	402.0	75	26.19	34.60	22.69	519.7	0.393	
148	16.33	34.53	3.54	1.09	25.33	269.9	100	25.96	34.72	22.85	505.6	0.522	
171	14.00	34.34	3.30	1.23	25.70	235.2	150	16.06	34.51	25.38	265.3	0.716	
196	11.93	34.28	2.70	2.15	26.06	200.4	200	11.66	34.27	26.11	196.3	0.833	
220	10.60	34.25	2.59	2.08	26.28	179.6	250	9.94	34.38	26.50	159.8	0.922	
245	9.97	34.34	1.85	2.24	26.46	162.9	300	9.77	34.56	26.66	144.9	0.999	
270	9.91	34.51	0.79	2.59	26.60	149.9	400	8.79	34.58	26.84	129.6	1.138	
294	9.81	34.55	0.57	2.81	26.65	145.8	500	7.53	34.52	26.99	116.4	1.262	
391	8.51	34.58	0.32	2.52	26.82	131.0	600	6.81	34.51	27.08	108.4	1.376	
489	7.62	34.52	0.24	2.37	26.97	117.5	700	6.04	34.49	27.17	100.5	1.481	
586	6.92	34.51	0.63	2.93	27.06	109.6	800	5.36	34.48	27.24	93.3	1.579	
784	5.45	34.48	0.64	2.62	27.23	94.4	1000	4.51	34.52	27.37	81.5	1.756	
981	4.57	34.52	1.26	3.30	27.37	82.3	1200	3.85	34.55	27.46	73.3	1.913	
1179	3.97	34.54	1.28	3.15	27.45	75.1							
1478	3.12	34.53	1.62	3.02	27.56	64.0							

CROMWELL 16, STATION 11, 16-0N LAT, 153-57W LONG, MAY 18, 1965, 0000 G.C.T.													
DRY BULB 25.0		WET BULB 21.2		WIND SPEED 10, DIR. 06		BAR. 15		WEATHER C2		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.73	34.29	4.90		22.60	525.3	0	25.73	34.29	22.60	525.3	0.000	
11	25.61	34.30	5.00	0.43	22.65	521.5	10	25.62	34.30	22.64	521.9	0.053	
51	25.00	34.36	4.94	0.50	22.88	500.9	20	25.52	34.31	22.69	518.0	0.105	
76	24.26	34.37	5.10	0.38	23.11	479.9	30	25.38	34.33	22.74	513.4	0.157	
101	22.33	34.88	5.24	0.34	24.05	390.6	50	25.02	34.36	22.87	501.6	0.259	
127	20.36	34.93	4.85	0.49	24.63	336.2	75	24.30	34.37	23.09	481.5	0.383	
152	18.94	34.86	4.56	0.55	24.96	305.3	100	22.42	34.86	24.01	394.4	0.493	
177	16.56	34.61	4.26	0.76	25.34	270.1	150	19.06	34.89	24.94	307.6	0.670	
203	13.78	34.35	3.97	1.77	25.75	230.9	200	14.09	34.38	25.70	235.2	0.807	
228	11.71	34.22	3.58	1.54	26.06	201.6	250	10.62	34.26	26.29	180.0	0.912	
253	10.52	34.27	2.64	2.00	26.31	177.5	300	9.79	34.43	26.56	154.3	0.996	
278	10.11	34.34	1.78	2.27	26.44	165.9	400	8.47	34.48	26.82	131.5	1.140	
302	9.76	34.44	1.00	2.92	26.59	153.3	500	7.66	34.52	26.97	118.3	1.266	
403	8.44	34.48	0.57	2.55	26.82	131.3	600	6.58	34.47	27.08	107.8	1.380	
505	7.62	34.52	0.66	2.62	26.97	117.7	700	5.92	34.47	27.17	99.9	1.485	
606	6.52	34.47	0.82	2.79	27.09	107.2	800	5.48	34.50	27.24	93.7	1.583	
807	5.46	34.50	0.69	3.06	27.25	93.3	1000	4.68	34.51	27.34	84.6	1.764	
1010	4.64	34.51	0.86	3.46	27.35	84.2	1200	3.95	34.55	27.45	74.5	1.925	
1210	3.92	34.55	1.05	2.81	27.46	74.0	1500	3.13	34.58	27.56	64.4	2.136	
1512	3.10	34.58	1.55	2.81	27.56	64.0							

*INTERPOLATED DATA
**EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION		12, 17-30N LAT, 154- 0W LONG, MAY 18, 1965, 0900 G.C.T.		BAR. 17		WEATHER 03		VIS. 5		CLOUD TYPE 8, COVER 7		
DRY BULB	24.6	WET BULB	22.0	WIND SPEED	15, DIR. C7							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.05	34.34	4.94		22.85	501.8	0	25.05	34.34	22.85	501.8	0.000
10	25.06	34.35	5.12	0.48	22.85	501.8	10	25.06	34.35	22.85	501.8	0.051
30 ^A	25.05	34.35			22.86	502.3	20	25.09	34.35	22.84	503.1	0.101
51	24.41	34.37	5.04	0.50	23.06	483.2	30	25.05	34.35	22.86	502.3	0.152
78	23.67	34.76	5.11	0.41	23.58	435.2	50	24.45	34.37	23.05	484.5	0.251
103	23.17	34.96	5.22	0.28	23.87	407.9	75	23.74	34.71	23.52	440.7	0.368
127	22.30	35.06	5.00	0.35	24.20	377.8	100	23.24	34.94	23.84	410.8	0.475
153	20.48	35.09	4.68	0.41	24.72	328.7	150	20.70	35.09	24.66	334.1	0.663
178	19.29	35.03	4.55	0.47	24.99	304.0	200	17.21	34.74	25.28	276.0	0.816
204	16.78	34.68	4.37	0.75	25.34	270.8	250	13.18	34.30	25.84	223.8	0.942
229	14.37	34.40	4.10	1.07	25.66	239.9	300	10.62	34.24	26.27	182.6	1.045
255	12.94	34.29	3.65	1.37	25.87	220.1	400	8.78	34.38	26.69	143.9	1.210
280	11.40	34.24	3.65	1.45	26.13	195.7	500	7.30	34.37	26.91	123.7	1.345
305	10.46	34.24		1.74	26.30	179.8	600	6.29	34.38	27.05	110.8	1.463
406	8.73	34.39	2.83	2.46	26.70	142.5	700	5.57	34.41	27.16	100.2	1.570
508	7.19	34.37	0.81	2.88	26.92	122.6	800	5.01	34.45	27.26	91.5	1.667
609	6.22	34.38	0.74	3.09	27.06	109.8	1000	4.24	34.51	27.39	79.3	1.840
812	4.96	34.45	0.93	2.47	27.27	90.6	1200	3.65	34.53	27.47	72.2	1.993
1014	4.20	34.51	1.10	3.21	27.40	78.7	1500	2.92	34.57	27.57	67.5	2.198
1216	3.61	34.53	1.19	2.97	27.47	71.7						
1519	2.88	34.57	1.62	3.13	27.57	62.1						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION		13, 19- ON LAT, 154- 5W LONG, MAY 18, 1965, 1800 G.C.T.		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 7		
DRY BULB	24.1	WET BULB	21.6	WIND SPEED	15, DIR. C9							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.87	34.09	5.02		22.72	514.6	0	24.87	34.09	22.72	514.6	0.000
10	24.92	34.08	5.16	0.51	22.69	517.2	10	24.92	34.08	22.69	517.2	0.052
30 ^A	24.82	34.14			22.77	510.7	20	24.94	34.07	22.68	518.7	0.104
51	23.81	34.75	5.05	0.36	23.53	438.8	30	24.82	34.14	22.77	510.7	0.156
77	23.10	34.89	5.20	0.27	23.84	410.0	50	23.86	34.72	23.49	442.5	0.252
103	22.18	35.08	5.04	0.22	24.25	372.2	75	23.15	34.89	23.83	411.2	0.360
128	21.46	35.15	4.98	0.28	24.50	348.9	100	22.29	35.06	24.20	376.4	0.459
154	20.17	35.11	4.64	0.46	24.82	319.4	150	20.31	35.12	24.77	323.7	0.635
179	19.04	34.99	4.75	0.40	25.02	300.7	200	17.45	34.75	25.24	280.7	0.787
205	17.02	34.69	4.40	0.63	25.29	275.6	250	13.19	34.26	25.80	227.1	0.915
231	14.84	34.42	4.21	0.98	25.58	248.3	300	10.71	34.17	26.20	189.0	1.020
256	12.72	34.22	4.05	1.13	25.86	221.1	400	7.97	34.18	26.66	145.9	1.189
282	11.50	34.18	3.56	1.27	26.07	202.0	500	6.47	34.27	26.94	119.8	1.323
307	10.42	34.17	3.88	1.58	26.25	184.3	600	5.63	34.35	27.11	104.0	1.436
409	7.62	34.19	2.32	2.18	26.65	143.4	700	5.15	34.42	27.22	94.3	1.537
510	6.36	34.28	0.90	2.64	26.96	117.7	800	4.81	34.46	27.29	87.6	1.629
613	5.55	34.36	0.85	2.75	27.12	102.5	1000	4.14	34.52	27.41	77.3	1.796
814	4.78	34.47	0.88	2.79	27.30	80.9	1200	3.58	34.56	27.50	69.3	1.944
1019	4.09	34.52	1.04	2.75	27.42	76.5	1500	2.89	34.61	27.60	59.4	2.140
1220	3.53	34.56	1.16	2.84	27.51	68.6						
1524	2.84	34.61	1.62	2.56	27.61	58.7						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION		14, 20-31N LAT, 154- 3W LONG, MAY 19, 1965, 0300 G.C.T.		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 1, COVER 2		
DRY BULB	24.0	WET BULB	20.5	WIND SPEED	18, DIR. 11							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1	24.86	34.35	5.00		22.91	495.6	0	24.86	34.35	22.91	495.6	0.000
11	24.88	34.34	5.25	0.47	22.90	497.3	10	24.88	34.34	22.90	497.2	0.050
50	24.71	34.36	5.02	0.39	22.97	492.5	20	24.92	34.33	22.88	499.6	0.100
76	23.80	34.51	5.19	0.34	23.35	456.8	30	24.91	34.33	22.88	499.7	0.151
100	23.22	34.88	5.20	0.69	23.80	414.9	50	24.71	34.36	22.97	492.5	0.250
132	22.07	35.02	5.10	0.31	24.25	373.3	75	23.84	34.50	23.33	458.5	0.370
149	20.91	35.14	4.83	0.39	24.64	336.0	100	23.22	34.88	23.80	414.9	0.480
173	20.02	35.10	4.63	0.44	24.85	317.0	150	20.87	35.14	24.66	334.8	0.669
198	18.77	34.96	4.57	0.49	25.07	297.0	200	18.60	34.94	25.09	294.7	0.828
222	16.59	34.66	4.50	0.83	25.37	268.5	250	14.18	34.39	25.69	237.6	0.962
248	14.40	34.41	4.36	1.03	25.67	240.3	300	10.66	34.10	26.16	193.4	1.071
272	11.98	34.17	4.40	1.50	25.97	211.2	400	8.64	34.26	26.62	150.6	1.244
297	10.76	34.10	4.27	1.23	26.14	195.1	500	7.67	34.38	26.86	128.7	1.385
395	8.70	34.25	1.93	2.52	26.60	152.1	600	6.66	34.34	26.97	118.7	1.510
495	7.72	34.38	0.84	2.77	26.85	129.4	700	5.84	34.38	27.10	106.2	1.624
594	6.72	34.34	0.78	3.09	26.96	119.4	800	5.21	34.43	27.22	94.9	1.725
793	5.24	34.43	0.68	3.16	27.22	95.5	1000	4.44	34.49	27.35	83.3	1.906
990	4.51	34.49	0.93	3.22	27.35	83.8	1200	3.85	34.54	27.46	73.9	2.065
1188	3.89	34.54	1.04	3.22	27.45	74.2						
1490	3.14	34.58	1.37	3.13	27.56	64.3						

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA									
CROMWELL 16, STATION 15, 21-59N LAT, 153-55W LONG, MAY 19, 1965, 1200 G.C.T.																	
DRY BULB	23.7	WET BULB	20.6	WIND SPEED	17,	DIR.	09	BAR.	16	WEATHER	02	VIS.	7	CLOUD TYPE	8,	COVER	8
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	24.83	34.40	4.85		22.96	491.1	0	24.83	34.40	22.96	491.1	0.000					
11	24.86	34.40	5.03	0.44	22.95	492.4	10	24.86	34.40	22.95	492.3	0.050					
30 ^Δ	24.82	34.40			22.96	492.0	20	24.90	34.39	22.94	494.2	0.099					
51	23.89	34.51	5.00		23.32	458.4	30	24.82	34.40	22.96	492.0	0.149					
75	23.72	34.80	5.00	0.29	23.59	433.6	50	23.94	34.50	23.30	460.2	0.245					
99	23.33	34.95	5.02	0.69	23.82	412.9	75	23.72	34.80	23.59	433.6	0.357					
125	22.03	35.07	4.87	0.53	24.28	369.7	100	23.29	34.96	23.84	411.2	0.464					
151	21.09	35.12	4.72	0.48	24.58	342.2	150	21.12	35.12	24.57	343.0	0.654					
174	20.62	35.17	4.74	0.31	24.75	327.2	200	19.22	35.02	25.00	303.7	0.817					
199	19.29	35.03	4.46	0.79	24.99	304.7	250	15.97	34.61	25.47	259.2	0.959					
224	17.60	34.81	4.50	0.75	25.24	280.9	300	12.73	34.27	25.90	218.5	1.079					
248	16.12	34.63	4.36	0.73	25.45	261.1	400	8.76	34.07	26.45	166.6	1.273					
273	14.30	34.42	4.40	1.70	25.69	238.2	500	6.48	34.06	26.77	135.2	1.426					
298	12.83	34.28	4.65	0.95	25.89	219.8	600	5.52	34.21	27.01	113.4	1.551					
397	8.85	34.07	4.06	1.49	26.43	167.7	700	4.94	34.32	27.17	98.6	1.659					
497	6.52	34.06	2.17	2.69	26.76	136.0	800	4.59	34.41	27.28	88.5	1.753					
596	5.55	34.20	1.04	2.97	27.00	114.1	1000	4.17	34.52	27.41	77.4	1.921					
795	4.60	34.41	0.69	3.20	27.27	88.9	1200	3.67	34.56	27.49	70.0	2.070					
994	4.19	34.52	1.00	2.77	27.41	77.7											
1193	3.63	34.54	1.21	3.10	27.48	71.1											
1492	3.04	34.59	1.53	3.02	27.58	62.4											

CROMWELL 16, STATION 16, 23-30N LAT, 153-56W LONG, MAY 19, 1965, 2000 G.C.T.																	
DRY BULB	23.5	WET BULB	20.8	WIND SPEED	15,	DIR.	09	BAR.	20	WEATHER	02	VIS.	8	CLOUD TYPE	1,	COVER	3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	24.17	34.82	4.94		23.48	442.0	0	24.17	34.82	23.48	442.0	0.000					
11	24.18	34.82	5.10	0.25	23.47	442.7	10	24.18	34.82	23.47	442.6	0.045					
20 ^Δ	24.18	34.82			23.47	443.0	20	24.18	34.82	23.47	443.0	0.089					
30 ^Δ	24.18	34.82			23.47	443.4	30	24.18	34.82	23.47	443.4	0.134					
49	23.05	35.05	5.10	0.25	23.98	396.0	50	22.99	35.06	24.00	393.9	0.218					
74	21.77	35.17	5.02	0.25	24.43	353.6	75	21.73	35.17	24.44	352.5	0.312					
97	20.86	35.17	4.80	0.27	24.68	330.6	100	20.70	35.16	24.71	327.5	0.398					
121	19.56	35.06	4.43	0.96	24.94	306.5	150	18.16	34.90	25.17	285.1	0.552					
146	18.32	34.92	4.40	0.55	25.15	287.3	200	15.27	34.54	25.57	248.0	0.687					
170	17.26	34.78	4.36	0.53	25.30	273.4	250	12.63	34.27	25.92	215.7	0.803					
194	15.63	34.53	4.39	0.74	25.53	252.3	300	10.65	34.15	26.19	189.9	0.906					
218	14.27	34.42	4.40	0.76	25.70	236.1	400	8.02	34.13	26.61	150.8	1.078					
243	13.03	34.31	4.38	1.04	25.87	220.1	500	6.16	34.09	26.83	129.2	1.219					
267	11.73	34.18	4.36	1.82	26.02	205.8	600	5.40	34.20	27.01	112.6	1.341					
291	10.93	34.15	4.30	1.33	26.15	194.2	700	4.97	34.33	27.17	98.2	1.447					
386	8.36	34.14	2.70	2.28	26.57	154.8	800	4.70	34.45	27.29	87.6	1.541					
485	6.34	34.08	2.17	2.48	26.80	131.9	1000	4.20	34.52	27.41	77.9	1.709					
582	5.50	34.17	1.09	3.00	26.98	115.6	1200	3.70	34.57	27.50	69.9	1.858					
776	4.77	34.43	0.71	3.22	27.27	89.3											
970	4.28	34.51	0.92	3.30	27.39	79.3											
1164	3.76	34.56	1.15	3.22	27.48	70.9											
1461	3.12	34.59	1.47	2.78	27.57	63.2											

CROMWELL 16, STATION 17, 23-27N LAT, 151-0W LONG, MAY 20, 1965, 1300 G.C.T.																	
DRY BULB	20.5	WET BULB	14.1	WIND SPEED	19,	DIR.	09	BAR.	20	WEATHER	01	VIS.	6	CLOUD TYPE	8,	COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	23.75	34.63			23.46	443.8	0	23.75	34.63	23.46	443.8	0.000					
10	23.86	34.62			23.42	448.0	10	23.86	34.62	23.42	448.0	0.045					
50	22.48	35.02			24.12	382.6	20	23.63	34.70	23.54	436.5	0.089					
76	21.82	35.17			24.42	355.1	30	23.32	34.79	23.70	421.7	0.133					
100	21.04	35.20			24.65	333.8	50	22.48	35.02	24.12	382.6	0.214					
126	19.84	35.07			24.88	312.9	75	21.85	35.17	24.41	356.0	0.307					
152	18.67	34.90			25.05	297.3	100	21.06	35.20	24.65	333.8	0.394					
176	17.89	34.86			25.21	282.5	150	18.75	34.91	25.04	298.5	0.553					
202	16.22	34.64			25.44	261.1	200	16.36	34.66	25.42	262.8	0.694					
228	14.61	34.42			25.63	243.4	250	13.35	34.28	25.79	228.4	0.818					
253	13.19	34.27			25.81	226.4	300	10.86	34.11	26.13	196.2	0.925					
278	11.97	34.13			25.98	210.4	400	8.15	34.06	26.53	158.0	1.104					
303	10.71	34.10			26.15	194.3	500	6.36	34.09	26.81	131.9	1.250					
404	8.09	34.06			26.54	157.0	600	5.12	34.17	27.03	110.9	1.373					
506	6.27	34.09			26.82	130.5	700	4.61	34.29	27.18	96.6	1.478					
607	5.06	34.18			27.04	109.6	800	4.42	34.41	27.29	86.8	1.570					
809	4.42	34.42			27.30	86.1	1000	3.99	34.51	27.42	76.2	1.735					
1012	3.96	34.51			27.42	75.8	1200	3.49	34.55	27.50	68.8	1.882					
1212	3.46	34.55			27.50	68.4	1500	2.82	34.59	27.60	59.8	2.078					
1514	2.79	34.59			27.60	59.5											

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10
 TEMPERATURE ERROR TERM AT 30. METERS IS 0.14

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 16, STATION 19, 22- IN LAT, 151- 0W LONG, MAY 20, 1965, 2200 G.C.T.		WET BULB 20.2		WIND SPEED 16, DIR. 14	BAR. 20	WEATHER 02	VIS. 8	CLOUD TYPE 4, COVER 4				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.82	34.69			23.47	442.2	0	23.82	34.68	23.47	442.2	0.000
10	23.80	34.66			23.46	443.5	10	23.80	34.66	23.46	443.5	0.045
51	21.58	35.18			24.49	347.0	20	23.34	34.77	23.68	423.2	0.088
77	21.67	35.23			24.67	331.0	30	22.82	34.89	23.92	400.8	0.130
101	20.63	35.20			24.77	322.7	50	21.64	35.16	24.46	349.8	0.205
127	19.92	35.15			24.92	309.2	75	21.10	35.23	24.66	331.5	0.291
152	19.10	35.06			25.06	296.2	100	20.65	35.20	24.76	323.0	0.374
177	17.65	34.85			25.26	277.6	150	19.18	35.07	25.05	297.4	0.530
202	15.83	34.59			25.49	256.2	200	15.98	34.61	25.47	257.9	0.670
227	14.02	34.36			25.71	235.6	250	12.57	34.24	25.91	216.3	0.789
251	12.51	34.24			25.92	215.5	300	10.36	34.14	26.24	185.6	0.891
278	11.17	34.18			26.13	196.0	400	7.73	34.03	26.57	153.7	1.062
303	10.26	34.13			26.25	184.4	500	6.26	34.10	26.83	130.0	1.205
403	7.67	34.03			26.58	153.0	600	5.35	34.19	27.02	112.0	1.327
504	6.72	34.10			26.84	129.1	700	4.69	34.29	27.17	98.2	1.434
605	5.31	34.20			27.03	111.2	800	4.24	34.37	27.28	87.9	1.528
806	4.22	34.37			27.28	87.4	1000	3.83	34.48	27.41	76.5	1.694
1007	3.87	34.42			27.41	76.3	1200	3.37	34.53	27.50	68.8	1.841
1208	3.35	34.53			27.50	68.6	1500	2.72	34.57	27.59	60.1	2.037
1511	2.70	34.57			27.59	59.9						
TEMPERATURE ERROR TEMP AT 20. METERS IS 0.16												
TEMPERATURE ERROR TEMP AT 30. METERS IS 0.22												
SALINITY ERROR TEMP AT 30. METERS IS 0.06												

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 16, STATION 19, 20-30N LAT, 151- 2W LONG, MAY 21, 1965, 0800 G.C.T.		WET BULB 19.7		WIND SPEED 20, DIR. 12	BAR. 19	WEATHER 03	VIS.	CLOUD TYPE 8, COVER 8				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.35	34.49			23.17	470.9	0	24.35	34.49	23.17	470.9	0.000
9	24.38	34.48			23.16	472.8	10	24.38	34.48	23.16	472.9	0.048
20 ^A	24.37	34.48			23.16	473.0	20	24.37	34.48	23.16	473.0	0.095
30 ^A	24.30	34.49			23.19	470.6	30	24.30	34.49	23.19	470.6	0.143
49	22.64	34.98			24.04	389.8	50	22.57	34.99	24.07	387.2	0.229
73	21.49	35.13			24.48	349.1	75	21.44	35.14	24.50	347.5	0.322
97	21.09	35.16			24.63	335.9	100	21.04	35.18	24.64	334.5	0.408
121	20.56	35.17			24.76	323.8	150	19.36	35.06	24.99	302.8	0.568
147	19.49	35.07			24.97	304.9	200	16.39	34.64	25.40	265.0	0.711
169	18.44	34.94			25.14	289.5	250	12.75	34.23	25.87	220.4	0.834
193	16.90	34.72			25.32	272.1	300	10.12	34.10	26.25	184.3	0.936
217	14.95	34.45			25.58	248.0	400	7.95	34.17	26.65	146.6	1.103
242	13.34	34.27			25.72	229.0	500	6.59	34.24	26.90	123.7	1.239
262	11.89	34.19			26.00	207.8	600	5.79	34.32	27.06	108.5	1.356
287	10.59	34.11			26.18	191.2	700	5.34	34.37	27.16	99.7	1.461
380	6.31	34.16			26.59	152.5	800	5.02	34.42	27.24	93.4	1.559
476	6.86	34.22			26.85	128.5	1000	4.38	34.49	27.36	82.4	1.737
570	5.97	34.30			27.03	111.9	1200	3.78	34.52	27.45	74.3	1.895
757	5.17	34.40			27.20	96.4						
946	4.56	34.43			27.33	84.8						
1135	3.94	34.50			27.42	77.3						
1419	3.24	34.54			27.52	69.0						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 16, STATION 20, 19- UN LAT, 150-55W LONG, MAY 21, 1965, 1700 G.C.T.		WET BULB 19.5		WIND SPEED 20, DIR. C9	BAR. 16	WEATHER C3	VIS. 7	CLOUD TYPE 8, COVER 8				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.15	34.39			23.16	472.4	0	24.15	34.39	23.16	472.4	0.000
9	24.18	34.41			23.16	472.2	10	24.19	34.41	23.16	472.6	0.048
48	24.13	34.45			23.21	469.4	20	24.24	34.39	23.13	475.3	0.095
73	23.53	34.80			23.65	428.2	30	24.24	34.40	23.14	475.5	0.143
97	22.27	34.92			24.10	385.9	50	24.10	34.48	23.24	466.7	0.238
121	21.73	35.15			24.43	355.8	75	23.42	34.81	23.69	424.5	0.350
145	20.36	35.06			24.73	327.5	100	22.21	34.95	24.15	381.8	0.452
169	19.00	34.98			25.02	300.1	150	20.08	35.05	24.80	321.5	0.629
194	17.42	34.78			25.26	277.9	200	16.93	34.70	25.32	272.4	0.779
218	15.37	34.48			25.51	254.7	250	12.69	34.23	25.88	219.4	0.903
242	13.29	34.29			25.80	226.6	300	10.48	34.17	26.24	185.4	1.005
267	11.64	34.15			26.02	206.3	400	8.28	34.30	26.70	142.2	1.170
291	10.77	34.16			26.18	190.7	500	7.29	34.42	26.94	120.0	1.303
385	8.47	34.27			26.65	146.9	600	6.18	34.41	27.08	107.3	1.417
481	7.52	34.42			26.91	123.2	700	5.53	34.44	27.19	97.5	1.521
577	6.37	34.40			27.05	109.9	800	5.07	34.48	27.27	90.0	1.616
770	5.22	34.47			27.25	92.0	1000	4.25	34.51	27.39	79.3	1.787
961	4.38	34.50			27.37	81.2	1200	3.65	34.54	27.48	71.4	1.940
1153	3.82	34.54			27.46	73.1						
1442	3.12	34.56			27.54	65.2						

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 16, STATION 21, 17-31N LAT, 150-59W LONG, MAY 22, 1965, CICO G.C.T.													
DRY BULB	23.9	WET BULB	20.9	WIND SPEED	21, DIR. C7	BAR.	17	WEATHER	O3	VIS.	6	CLOUD TYPE	4, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	24.66	34.39			23.00	487.0	0	24.66	34.39	23.00	487.0	0.000	
11	24.67	34.38			22.99	487.4	10	24.67	34.38	22.99	488.3	0.049	
30 ^A	24.65	34.38			23.00	488.6	20	24.72	34.37	22.97	490.8	0.098	
51	23.61	34.52			23.41	449.8	30	24.65	34.38	23.00	488.6	0.148	
76	22.75	34.88			23.93	401.1	50	23.67	34.51	23.39	452.1	0.243	
101	22.19	35.04			24.21	375.3	75	22.79	34.87	23.92	402.8	0.350	
126	20.95	35.11			24.61	338.4	100	22.22	35.04	24.20	376.2	0.448	
151	19.42	35.06			24.98	304.1	150	19.48	35.06	24.97	305.2	0.620	
176	18.50	34.97			25.14	289.0	200	17.04	34.73	25.32	272.7	0.766	
201	16.96	34.72			25.33	271.9	250	12.48	34.26	25.94	213.2	0.888	
227	14.33	34.38			25.66	246.5	300	9.78	34.14	26.34	175.6	0.986	
251	12.41	34.26			25.96	212.1	400	8.37	34.37	26.74	138.5	1.145	
276	10.72	34.17			26.20	188.8	500	6.88	34.37	26.96	118.1	1.274	
301	9.75	34.14			26.34	175.2	600	6.05	34.39	27.09	106.7	1.388	
401	8.37	34.37			26.74	138.3	700	5.46	34.44	27.20	96.6	1.491	
501	6.87	34.37			26.96	118.0	800	5.01	34.49	27.29	88.2	1.584	
602	6.04	34.39			27.09	106.6	1000	4.26	34.52	27.40	78.6	1.753	
802	5.00	34.49			27.29	88.1	1200	3.68	34.54	27.47	71.8	1.905	
1003	4.25	34.52			27.46	78.5	1500	2.91	34.59	27.59	60.9	2.107	
1205	3.67	34.54			27.48	71.7	2000	2.10	34.64	27.69	50.3	2.389	
1507	2.89	34.59			27.59	60.7	2500	1.78	34.66	27.74	46.7	2.636	
2077	2.02	34.64			27.70	49.3	3000	1.64	34.68	27.76	45.0	2.870	
2582	1.76	34.66			27.74	46.5	4000	1.44	34.70	27.79	43.3	3.323	
3086	1.62	34.68			27.77	44.8							
4094	1.43	34.70			27.80	43.3							

CROMWELL 16, STATION 22, 15-58N LAT, 150-59W LONG, MAY 22, 1965, 1200 G.C.T.													
DRY BULB	24.0	WET BULB	21.5	WIND SPEED	20, DIR. 10	BAR.	14	WEATHER	O2	VIS.	7	CLOUD TYPE	, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	24.80	34.40			22.97	490.3	0	24.80	34.40	22.97	490.3	0.000	
9	24.81	34.40			22.97	490.9	10	24.81	34.40	22.97	490.9	0.049	
30 ^A	24.80	34.40			22.97	491.4	20	24.81	34.40	22.97	491.3	0.099	
47	24.76	34.40			22.98	491.5	30	24.80	34.40	22.97	491.4	0.148	
70	24.02	34.57			23.32	458.5	50	24.71	34.41	23.01	488.7	0.247	
94	23.10	34.90			23.85	409.9	75	23.87	34.64	23.43	449.1	0.365	
117	21.47	34.98			24.37	361.0	100	22.70	34.93	23.99	396.7	0.472	
141	20.02	35.04			24.81	320.2	150	19.48	35.01	24.92	309.4	0.650	
164	18.60	34.91			25.07	295.3	200	15.71	34.54	25.48	257.5	0.793	
189	16.87	34.67			25.31	273.1	250	11.24	34.20	26.13	195.1	0.907	
212	14.40	34.40			25.66	246.0	300	9.94	34.35	26.48	162.7	0.997	
235	12.42	34.26			25.95	211.9	400	8.64	34.49	26.79	133.8	1.146	
259	10.69	34.19			26.22	186.4	500	7.67	34.50	26.95	119.8	1.274	
283	10.22	34.30			26.39	170.8	600	6.85	34.50	27.06	109.8	1.390	
376	8.92	34.47			26.74	139.0	700	5.96	34.49	27.18	99.3	1.496	
471	7.91	34.56			26.92	122.9	800	5.32	34.50	27.26	91.5	1.593	
565	7.18	34.50			27.02	113.7	1000	4.36	34.51	27.38	80.5	1.767	
739	5.84	34.49			27.22	95.6	1200	3.66	34.55	27.48	70.8	1.920	
880	4.97	34.51			27.31	87.1							
1022	4.25	34.51			27.35	79.4							
1243	3.54	34.56			27.50	68.9							

CROMWELL 16, STATION 23, 14-30N LAT, 150-59W LONG, MAY 22, 1965, 2100 G.C.T.													
DRY BULB	24.9	WET BULB	21.7	WIND SPEED	18, DIR. C9	BAR.	15	WEATHER	O3	VIS.	8	CLOUD TYPE	8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0	25.54	34.60			22.90	497.4	0	25.54	34.60	22.90	497.4	0.000	
10	25.57	34.61			22.89	497.9	10	25.57	34.61	22.89	497.9	0.050	
50	25.57	34.60			22.89	500.3	20	25.58	34.61	22.89	498.6	0.100	
74	25.56	34.60			22.89	500.9	30	25.58	34.61	22.89	499.2	0.151	
98	23.27	34.60			23.57	436.4	50	25.57	34.60	22.89	500.3	0.251	
124	19.69	34.86			24.76	324.3	75	25.50	34.60	22.91	499.3	0.377	
148	16.08	34.54			25.39	263.7	100	23.02	34.63	23.67	427.7	0.494	
171	13.10	34.27			25.63	222.5	150	15.78	34.51	25.44	259.5	0.667	
196	11.60	34.41			26.23	184.9	200	11.48	34.43	26.26	181.5	0.778	
221	11.14	34.51			26.39	169.9	250	10.97	34.62	26.51	159.2	0.864	
246	11.03	34.62			26.49	160.5	300	10.14	34.64	26.67	144.8	0.941	
271	10.61	34.63			26.58	153.0	400	9.09	34.63	26.83	130.6	1.080	
294	10.22	34.64			26.65	146.1	500	7.93	34.57	26.96	118.9	1.206	
393	9.17	34.63			26.82	131.5	600	7.04	34.53	27.06	110.2	1.321	
492	8.01	34.57			26.96	119.7	700	6.23	34.52	27.17	100.6	1.428	
589	7.14	34.53			27.05	111.3	800	5.58	34.53	27.26	92.5	1.525	
784	5.65	34.53			27.25	93.4	1000	4.80	34.55	27.36	83.1	1.703	
980	4.89	34.55			27.35	84.2	1200	4.01	34.57	27.47	73.4	1.862	
1176	4.04	34.57			27.46	73.8							
1472	3.09	34.60			27.58	62.1							

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 16, STATION 24, 13-1N LAT, 151-1W LONG, MAY 23, 1965, 0600 G.C.T.		WET BULB 22.1		WIND SPEED 20, DIR. C9		BAR. 13		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.72	34.64			22.87	499.8	0	25.72	34.64	22.87	499.8	0.000	
10	25.72	34.63			22.86	500.9	10	25.72	34.63	22.86	500.9	0.050	
49	25.72	34.64			22.87	501.8	20	25.72	34.63	22.86	501.4	0.101	
73	25.71	34.64			22.87	502.4	30	25.72	34.63	22.86	501.7	0.151	
96	25.36	34.60			22.95	495.9	50	25.72	34.64	22.87	501.9	0.253	
119	23.60	34.64			23.51	443.5	75	25.71	34.64	22.87	502.9	0.379	
143	18.91	34.67			24.81	319.5	100	25.20	34.60	23.00	491.1	0.504	
168	15.05	34.42			25.53	250.9	150	17.72	34.61	25.06	295.9	0.703	
192	12.39	34.30			25.99	207.3	200	11.95	34.35	26.12	195.4	0.826	
215	11.48	34.49			26.31	177.3	250	10.98	34.62	26.50	159.5	0.916	
239	11.07	34.59			26.46	163.9	300	10.37	34.64	26.62	149.1	0.994	
264	10.88	34.66			26.55	155.3	400	9.16	34.62	26.82	132.1	1.136	
287	10.55	34.64			26.60	151.6	500	8.07	34.62	26.95	120.6	1.263	
382	9.36	34.63			26.79	134.4	600	7.06	34.54	27.07	109.3	1.379	
477	8.32	34.58			26.92	123.4	700	6.23	34.53	27.17	99.9	1.485	
573	7.31	34.55			27.04	112.1	800	5.56	34.53	27.26	92.1	1.582	
765	5.77	34.53			27.23	94.7	1000	4.58	34.55	27.39	80.1	1.756	
957	4.76	34.55			27.37	82.2	1200	3.84	34.58	27.49	71.1	1.909	
1150	4.04	34.57			27.46	73.5							
1445	3.21	34.60			27.57	63.4							

CROMWELL 16, STATION 25, 11-32N LAT, 151-2W LONG, MAY 23, 1965, 1600 G.C.T.		WET BULB 23.3		WIND SPEED 22, DIR. C7		BAR. 14		WEATHER 01		VIS. 6		CLOUD TYPE 7, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.76	34.85			22.70	515.8	0	26.76	34.85	22.70	515.8	0.000	
10	26.79	34.86			22.70	516.4	10	26.79	34.86	22.70	516.4	0.052	
52	26.78	34.84			22.69	519.3	20	26.80	34.86	22.70	517.2	0.104	
76	26.75	34.85			22.69	519.8	30	26.80	34.85	22.69	517.9	0.156	
102	17.24	34.52			25.11	289.7	50	26.78	34.84	22.69	519.2	0.261	
126	13.18	34.47			25.97	208.2	75	26.87	34.85	22.67	522.2	0.392	
153	11.51	34.46			26.28	178.5	100	18.06	34.55	24.93	306.6	0.496	
178	11.46	34.69			26.46	162.1	150	11.58	34.45	26.26	180.2	0.619	
204	11.17	34.70			26.54	155.2	200	11.18	34.70	26.53	155.9	0.704	
229	10.85	34.72			26.60	149.6	250	10.64	34.71	26.63	147.0	0.780	
253	10.61	34.71			26.64	146.7	300	10.11	34.69	26.71	140.9	0.853	
279	10.31	34.72			26.70	141.4	400	9.37	34.67	26.82	132.2	0.990	
304	10.02	34.63			26.71	141.0	500	8.58	34.62	26.90	125.2	1.120	
405	9.34	34.67			26.82	131.6	600	7.61	34.56	27.01	115.9	1.242	
508	8.51	34.61			26.91	124.7	700	6.68	34.53	27.11	106.3	1.354	
609	7.52	34.56			27.02	115.0	800	5.87	34.52	27.21	97.3	1.457	
811	5.79	34.52			27.22	96.3	1000	4.73	34.56	27.38	81.8	1.638	
1013	4.67	34.56			27.35	80.9	1200	3.96	34.56	27.46	73.7	1.796	
1216	3.91	34.56			27.47	73.2	1500	3.16	34.60	27.57	63.5	2.004	
1520	3.12	34.60			27.58	62.8	2000	2.25	34.64	27.68	52.2	2.298	
2093	2.14	34.64			27.69	50.9	2500	1.86	34.65	27.72	48.3	2.554	
2598	1.82	34.65			27.73	48.1	3000	1.68	34.67	27.76	45.9	2.795	
3102	1.66	34.65			27.76	45.4	4000	1.43	34.68	27.78	44.4	3.257	
4112	1.42	34.68			27.78	44.6							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.18

CROMWELL 16, STATION 26, 10-2N LAT, 148-1W LONG, MAY 24, 1965, 1500 G.C.T.		WET BULB 24.0		WIND SPEED 22, DIR. C7		BAR. 12		WEATHER 01		VIS. 4		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.91	34.85	4.65		22.65	520.4	0	26.91	34.85	22.65	520.4	0.000	
10	26.93	34.84	4.70	0.41	22.64	522.1	10	26.93	34.84	22.64	522.1	0.053	
52	26.90	34.85	4.61	0.94	22.66	522.2	20	26.93	34.84	22.64	522.4	0.105	
75	26.93	34.84			22.64	524.8	30	26.92	34.84	22.65	522.5	0.158	
77	26.93	34.84	4.55	0.54	22.64	524.9	50	26.90	34.85	22.66	522.3	0.263	
102	21.48	34.54	4.42	0.82	24.03	392.5	75	26.93	34.84	22.64	524.8	0.395	
128	13.18	34.47	1.21	2.41	25.97	208.3	100	22.15	34.57	23.87	408.0	0.512	
153	12.00	34.68	0.32	2.75	26.36	171.3	150	11.95	34.65	26.35	172.3	0.659	
177	11.50	34.74	0.26	2.42	26.50	158.4	200	11.19	34.74	26.56	153.1	0.741	
204	11.14	34.74	0.37	2.45	26.57	152.6	250	10.63	34.74	26.66	144.9	0.816	
229	10.83	34.72	0.41	2.78	26.61	149.2	300	10.17	34.71	26.72	140.1	0.888	
254	10.59	34.74	0.52	2.70	26.67	144.2	400	9.54	34.69	26.81	133.2	1.025	
279	10.34	34.72	0.48	2.69	26.69	141.9	500	8.91	34.67	26.90	126.3	1.156	
304	10.14	34.71	0.46	2.83	26.72	139.8	600	7.88	34.60	27.00	117.6	1.280	
405	9.51	34.69	0.57	2.80	26.81	132.9	700	6.84	34.56	27.11	106.6	1.393	
508	8.85	34.67	0.39	3.00	26.90	125.7	800	5.95	34.55	27.22	96.2	1.495	
609	7.78	34.59	0.37	3.33	27.01	116.7	1000	4.86	34.56	27.36	83.4	1.677	
812	5.85	34.55	0.61	3.56	27.24	94.9	1200	3.96	34.58	27.48	72.3	1.835	
1013	4.81	34.56	0.78	3.33	27.37	82.7	1500	3.06	34.61	27.59	61.4	2.038	
1214	3.90	34.58	1.28	3.27	27.48	71.6							
1518	3.62	34.61	1.69	3.19	27.59	60.9							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA							DERIVED DATA			INTERPOLATED DATA			
CROMWELL 16, STATION 27, 11-30N LAT, 147-59W LONG, MAY 25, 1965, CCGO G.C.T.		WET BULB 23.2		WIND SPEED 22, DIR. C4		BAR. 13		WEATHER C2		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.60	34.72	4.68		22.66	520.3	0	26.60	34.72	22.66	520.3	0.000	
11	26.61	34.72	4.85	0.42	22.65	521.1	10	26.61	34.72	22.65	521.0	0.052	
53	26.53	34.72	4.79	0.35	22.68	520.4	20	26.60	34.72	22.66	520.9	0.105	
75A	26.54	34.71			22.67		30	26.58	34.72	22.66	520.8	0.157	
78	26.54	34.71	4.60	0.32	22.67	522.4	50	26.54	34.72	22.68	520.4	0.262	
102	20.82	34.61	4.52	0.62	24.27	370.3	75	26.54	34.71	22.67	522.3	0.394	
128	14.65	34.44	1.88	1.71	25.64	239.9	100	21.49	34.62	24.09	386.7	0.508	
154	12.21	34.45	1.20	2.32	26.14	192.0	150	12.41	34.44	26.09	196.5	0.655	
178	11.34	34.54	0.80	2.64	26.37	170.2	200	10.98	34.58	26.47	161.2	0.745	
205	10.92	34.55	0.54	2.77	26.49	159.8	250	10.30	34.64	26.64	146.2	0.823	
230	10.46	34.62	0.45	2.60	26.60	150.2	300	9.70	34.64	26.74	137.7	0.894	
255	10.27	34.65	0.28	2.79	26.65	145.3	400	8.63	34.60	26.88	125.3	1.027	
281	9.94	34.66	0.35	2.82	26.72	139.6	500	7.70	34.55	26.99	116.3	1.149	
305	9.64	34.63	0.31	2.78	26.74	137.4	600	6.94	34.54	27.09	107.9	1.262	
406	8.57	34.60	0.43	3.10	26.89	124.5	700	6.23	34.53	27.18	99.8	1.367	
509	7.62	34.55	0.57	2.89	27.00	115.6	800	5.57	34.53	27.26	92.5	1.464	
610	6.87	34.54	0.65	3.38	27.10	107.0	1000	4.56	34.55	27.39	80.3	1.639	
812	5.50	34.53	0.85	3.04	27.27	91.7	1200	3.87	34.57	27.48	72.0	1.793	
1015	4.50	34.55	1.07	3.43	27.40	79.5	1500	3.07	34.60	27.58	62.2	1.998	
1217	3.82	34.57	1.18	2.89	27.48	71.4							
1520	3.03	34.60	1.73	3.39	27.59	61.7							

TEMPERATURE ERROR TEMP AT 100. METERS IS 0.13

ORIGINAL DATA							DERIVED DATA			INTERPOLATED DATA			
CROMWELL 16, STATION 28, 12-58N LAT, 147-58W LONG, MAY 25, 1965, 1000 G.C.T.		WET BULB 21.9		WIND SPEED 24, DIR. C6		BAR. 16		WEATHER C2		VIS. 5		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.38	34.64	4.80		22.97	489.8	0	25.38	34.64	22.97	489.8	0.000	
10	25.37	34.65	4.90	0.49	22.99	489.2	10	25.37	34.65	22.99	489.7	0.049	
51	25.39	34.64	4.72	0.54	22.97	492.1	20	25.38	34.65	22.98	489.8	0.099	
75A	25.28	34.62			22.99	491.3	30	25.39	34.65	22.98	490.4	0.148	
77	25.25	34.61	4.73	1.40	22.97	491.2	50	25.39	34.64	22.97	492.0	0.247	
102	22.13	34.56	0.90	0.53	23.87	408.3	75	25.28	34.62	22.99	491.3	0.371	
127	17.10	34.48	3.45	1.07	25.11	290.2	100	22.51	34.56	23.76	418.3	0.485	
153	13.54	34.31	0.73	1.82	25.77	227.7	150	13.85	34.32	25.71	232.9	0.649	
178	12.14	34.47	1.09	2.57	26.17	189.9	200	10.39	34.46	26.39	169.1	0.751	
204	10.71	34.45	1.15	2.74	26.42	166.4	250	10.06	34.57	26.63	147.2	0.830	
229	10.34	34.53	0.70	2.73	26.55	154.8	300	9.48	34.57	26.72	139.1	0.903	
254	10.01	34.58	0.60	3.27	26.64	146.1	400	8.36	34.56	26.90	124.0	1.035	
280	9.69	34.57	0.29	2.96	26.69	142.1	500	7.43	34.53	27.01	114.0	1.155	
305	9.43	34.57	0.31	2.85	26.73	138.4	600	6.55	34.51	27.12	104.5	1.266	
405	8.30	34.36	0.25	2.50	26.50	123.3	700	5.82	34.51	27.21	95.8	1.367	
507	7.37	34.53	0.41	3.15	27.02	113.4	800	5.24	34.53	27.29	89.3	1.460	
608	6.48	34.51	0.38	2.74	27.12	103.8	1000	4.39	34.56	27.42	77.4	1.628	
811	5.18	34.53	0.57	3.56	27.30	87.5	1200	3.84	34.57	27.48	71.5	1.779	
1013	4.35	34.56	0.85	3.23	27.42	76.9	1500	3.10	34.60	27.58	62.6	1.982	
1215	3.80	34.57	1.12	2.72	27.49	71.1							
1517	3.07	34.60	1.71	2.45	27.58	62.2							

ORIGINAL DATA							DERIVED DATA			INTERPOLATED DATA			
CROMWELL 16, STATION 29, 14-28N LAT, 147-59W LONG, MAY 25, 1965, 2000 G.C.T.		WET BULB 22.7		WIND SPEED 17, DIR. C8		BAR. 18		WEATHER C1		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.84	34.49	4.83		23.03	484.9	0	24.84	34.49	23.03	484.9	0.000	
10	24.82	34.48	5.15	0.85	23.02	485.5	10	24.82	34.48	23.02	485.5	0.049	
30A	24.81	34.48			23.03	486.0	20	24.81	34.48	23.03	486.0	0.098	
50	24.81	34.48	4.46	0.59	23.03	486.7	30	24.81	34.48	23.03	486.7	0.147	
76	22.77	34.69	5.04	0.65	23.79	415.3	50	24.81	34.48	23.03	486.7	0.245	
101	21.15	35.07	4.39	0.64	24.53	345.5	75	22.87	34.68	23.75	418.6	0.359	
126	19.02	34.96	4.50	0.64	25.00	300.6	100	21.22	35.06	24.50	348.1	0.455	
152	16.81	34.67	4.27	0.77	25.32	270.6	150	17.00	34.70	25.30	272.9	0.612	
177	13.38	34.28	3.54	1.45	25.78	227.4	200	11.81	34.28	26.01	198.4	0.731	
202	11.73	34.29	2.57	2.37	26.11	196.2	250	10.81	34.53	26.46	163.5	0.822	
228	11.00	34.43	1.51	2.53	26.35	173.5	300	10.25	34.65	26.65	146.2	0.900	
254	10.78	34.54	0.81	2.58	26.48	162.1	400	9.00	34.62	26.84	129.7	1.039	
279	10.20	34.56	0.66	2.89	26.59	151.3	500	7.97	34.56	26.95	119.8	1.165	
303	10.27	34.66	0.38		26.66	145.7	600	6.98	34.53	27.07	109.0	1.281	
404	8.97	34.61	0.22	3.07	26.85	129.2	700	6.17	34.51	27.17	100.5	1.386	
506	7.92	34.56	0.45	2.70	26.96	119.3	800	5.52	34.51	27.25	93.3	1.484	
608	6.90	34.53	0.47	3.24	27.08	108.2	1000	4.52	34.55	27.39	79.9	1.660	
810	5.46	34.51	0.57	2.74	27.25	92.6	1200	3.86	34.58	27.49	71.1	1.812	
1011	4.48	34.55	0.65	3.37	27.40	79.2	1500	3.08	34.60	27.58	62.2	2.015	
1213	3.82	34.58	1.21	3.46	27.49	70.6							
1517	3.05	34.60	1.65	3.23	27.58	61.9							

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 30, 15-55N LAT, 147-57W LONG, MAY 26, 1965, 0500 G.C.T.													
DRY BULB	24.0	WET BULB	21.4	WIND SPEED	20, DIR. 08	BAR.	16	WEATHER	03	VIS.	7	CLCUD TYPE 8,	COVER 7
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.82	34.58	4.93		23.10	477.9	0	24.82	34.58	23.10	477.9	0.000	
9	24.81	34.57	4.94	0.37	23.10	478.6	10	24.81	34.57	23.10	478.7	0.048	
48	24.81	34.59	4.71	0.40	23.11	478.7	20	24.81	34.57	23.10	478.8	0.096	
50 ^A	24.81	34.59			23.11	478.8	30	24.81	34.58	23.10	478.9	0.145	
74	24.78	34.59	4.79	C.44	23.12	478.9	50	24.81	34.59	23.11	478.8	0.241	
96	23.13	34.73	5.02	0.40	23.71	423.1	75	24.73	34.60	23.14	477.0	0.361	
120	20.84	34.85	4.58	0.67	24.44	354.1	100	22.77	34.76	23.84	411.3	0.473	
144	18.48	34.79	4.24	0.87	25.01	300.5	150	17.68	34.71	25.15	287.4	0.649	
167	15.36	34.46	3.36	1.18	25.50	254.5	200	12.10	34.22	25.98	208.0	0.774	
190	12.88	34.26	2.98	1.42	25.86	219.5	250	10.12	34.35	26.44	165.1	0.868	
213	11.32	34.21	2.83	1.96	26.12	194.9	300	9.74	34.52	26.64	146.9	0.947	
236	10.49	34.30	2.13	2.52	26.34	174.4	400	7.66	34.39	26.87	126.1	1.085	
259	9.97	34.38	1.53	2.31	26.49	160.3	500	6.80	34.44	27.02	112.0	1.205	
282	10.04	34.51	0.77	2.62	26.58	152.4	600	6.13	34.47	27.14	101.7	1.313	
372	8.01	34.39	0.83	2.95	26.81	130.8	700	5.57	34.49	27.22	94.4	1.412	
461	7.12	34.42	0.61	3.19	26.97	117.2	800	5.09	34.50	27.29	88.4	1.504	
551	6.44	34.46	0.50	3.11	27.09	106.1	1000	4.32	34.53	27.40	78.3	1.673	
731	5.42	34.49	0.59	3.39	27.24	92.6	1200	3.69	34.57	27.49	69.9	1.823	
912	4.63	34.52	0.76	2.86	27.36	82.3							
1093	4.03	34.55	1.00	3.31	27.45	74.4							
1373	3.25	34.59	1.39	3.38	27.56	64.1							

TEMPERATURE ERROR TEMP AT 300. METERS IS 0.13

CROMWELL 16, STATION 31, 17-30N LAT, 148-1W LONG, MAY 26, 1965, 1500 G.C.T.													
DRY BULB	23.6	WET BULB	20.7	WIND SPEED	18, DIR. 07	BAR.	17	WEATHER	03	VIS.	7	CLOUD TYPE 8,	COVER 3
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.43	34.44	4.77		23.11	476.8	0	24.43	34.44	23.11	476.8	0.000	
10	24.41	34.44	5.00	0.47	23.12	476.6	10	24.41	34.44	23.12	476.6	0.048	
30 ^A	24.40	34.44			23.12	477.1	20	24.46	34.43	23.10	479.1	0.096	
50	23.46	34.58	5.10	0.66	23.50	441.3	30	24.40	34.44	23.12	477.1	0.144	
74	23.08	34.82	5.12	0.49	23.79	414.4	50	23.46	34.58	23.50	441.3	0.237	
98	22.24	34.93	5.05	0.46	24.12	384.4	75	23.05	34.82	23.81	413.2	0.344	
123	21.53	35.15	4.87	0.33	24.48	350.6	100	22.21	34.95	24.14	382.0	0.445	
146	19.50	34.98	4.71	0.94	24.90	311.7	150	19.35	34.97	24.93	308.6	0.619	
171	18.50	34.90	4.57	0.46	25.09	293.9	200	15.62	34.52	25.48	256.8	0.761	
197	15.90	34.55	4.19	1.59	25.44	260.5	250	11.19	34.21	26.15	193.5	0.875	
222	13.62	34.34	3.55	1.90	25.78	228.9	300	9.66	34.23	26.43	167.1	0.965	
247	11.31	34.21	3.54	2.16	26.12	195.5	400	7.63	34.29	26.79	133.2	1.117	
271	10.66	34.24	2.80	2.02	26.26	182.5	500	6.74	34.41	27.01	112.9	1.241	
294	9.84	34.23	2.79	2.28	26.40	169.9	600	6.04	34.44	27.13	102.6	1.350	
394	7.70	34.28	1.35	2.53	26.77	134.8	700	5.48	34.47	27.22	94.5	1.450	
493	6.80	34.41	0.68	3.02	27.00	113.9	800	5.00	34.49	27.29	87.8	1.542	
591	6.09	34.44	0.49	2.55	27.12	103.4	1000	4.14	34.53	27.42	76.2	1.708	
788	5.06	34.49	0.77	3.04	27.25	88.7	1200	3.52	34.56	27.51	68.0	1.854	
985	4.19	34.53	1.07	3.19	27.41	76.8							
1183	3.62	34.56	1.26	3.68	27.50	69.4							
1479	2.85	34.60	1.57	2.86	27.60	59.3							

CROMWELL 16, STATION 32, 19-2N LAT, 148-2W LONG, MAY 27, 1965, 0300 G.C.T.													
DRY BULB	23.2	WET BULB	19.8	WIND SPEED	19, DIR. 06	BAR.	17	WEATHER	02	VIS.	8	CLOUD TYPE 8,	COVER 7
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.75	34.37	5.02		23.26	462.6	0	23.75	34.37	23.26	462.6	0.000	
10	23.76	34.37	5.17	0.41	23.26	463.3	10	23.76	34.37	23.26	463.3	0.047	
30 ^A	23.72	34.37			23.27	462.9	20	23.74	34.37	23.26	463.2	0.093	
51	23.69	34.37	4.91	0.48	23.28	462.9	30	23.72	34.37	23.27	462.9	0.140	
77	22.39	34.52	5.11	0.47	23.76	417.3	50	23.70	34.37	23.27	463.2	0.233	
102	20.30	34.72	4.69	1.05	24.47	351.0	75	22.53	34.50	23.71	422.1	0.345	
126	17.82	34.64	3.78	1.11	25.06	295.1	100	20.57	34.71	24.41	356.6	0.443	
153	15.83	34.48	3.61	1.25	25.41	262.7	150	16.02	34.50	25.38	265.4	0.600	
178	14.12	34.30	3.44	1.38	25.64	240.7	200	12.21	34.18	25.94	212.6	0.720	
204	11.87	34.17	3.29	1.54	25.99	207.6	250	9.53	34.11	26.36	172.5	0.817	
228	10.51	34.15	3.35	2.18	26.22	185.6	300	8.67	34.18	26.55	154.8	0.900	
253	9.42	34.11	3.50	1.90	26.37	171.1	400	7.15	34.26	26.84	128.6	1.043	
280	8.94	34.15	2.90	2.19	26.48	161.1	500	5.80	34.30	27.04	109.0	1.162	
304	8.62	34.19	2.35	2.11	26.56	153.6	600	5.40	34.38	27.16	98.7	1.267	
404	7.09	34.26	1.12	3.02	26.84	127.7	700	5.01	34.44	27.25	90.7	1.363	
506	5.74	34.30	0.77	2.93	27.05	108.1	800	4.60	34.48	27.33	84.0	1.451	
607	5.39	34.39	0.72	3.22	27.17	98.2	1000	3.92	34.54	27.45	73.1	1.610	
810	4.56	34.48	0.81	3.30	27.33	83.4	1200	3.40	34.57	27.53	66.3	1.751	
1009	3.89	34.54	1.02	3.51	27.45	72.7	1500	2.72	34.61	27.62	57.3	1.939	
1210	3.38	34.57	1.16	3.30	27.53	66.0							
1513	2.70	34.61	1.59	2.64	27.62	57.0							

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA							
CROMWELL 16, STATION 33, 20-29N LAT, 148- 5W LENG, MAY 27, 1965, 1200 G.C.T.		WET PULB 19.6			WIND SPEED 16, DIR. C6			BAR. 1E		WEATHER 02		VIS.		CLCUD TYPE 8, COVER	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	23.05	34.67	5.05		23.69	421.5	0	23.05	34.67	23.69	421.5	0.000			
9	23.07	34.66	5.24	0.37	23.68	423.2	10	23.08	34.66	23.67	423.5	0.043			
48	22.92	34.66	5.14	0.78	23.72	420.5	20	23.12	34.65	23.66	425.5	0.085			
72	22.14	34.71	5.14	0.46	23.98	396.7	30	23.10	34.65	23.66	425.5	0.128			
95	22.00	34.79	5.10	0.46	24.0E	388.0	50	22.85	34.66	23.74	418.5	0.213			
119	21.84	35.00	5.23	0.39	24.2E	369.5	75	22.11	34.72	23.99	395.4	0.316			
144	21.31	35.04	5.02	0.47	24.4E	353.5	100	21.98	34.84	24.12	384.4	0.414			
167	20.92	35.14	4.80	0.61	24.64	336.9	150	21.24	35.07	24.50	349.5	0.599			
191	19.78	35.07	4.63	0.68	24.85	313.7	200	19.35	35.03	24.98	305.8	0.764			
214	18.63	34.96	4.59	0.69	25.1C	294.1	250	15.75	34.53	25.46	260.3	0.907			
238	17.18	34.75	4.50	0.70	25.3C	275.9	300	11.71	34.19	26.03	205.5	1.024			
263	14.17	34.31	4.21	1.06	25.64	243.3	400	8.16	34.13	26.59	152.9	1.205			
286	12.44	34.22	2.99	1.51	25.91	217.4	500	6.52	34.20	26.87	125.8	1.346			
380	8.69	34.13	3.00	2.34	26.51	160.5	600	5.86	34.33	27.07	108.3	1.464			
478	6.75	34.17	1.71	2.40	26.82	130.7	700	5.42	34.43	27.20	96.3	1.567			
573	6.00	34.30	0.96	3.26	27.02	112.3	800	5.03	34.49	27.29	88.4	1.661			
764	5.20	34.48	0.81	3.06	27.22	90.9	1000	4.20	34.51	27.40	78.7	1.830			
956	4.33	34.50	1.21	2.60	27.38	80.5	1200	3.62	34.54	27.48	70.7	1.981			
1146	3.83	34.54	1.16	3.30	27.46	73.1									
1436	3.12	34.59	1.43	3.13	27.57	63.0									

TEMPERATURE ERROR TERM AT 250. METERS IS 0.11

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA							
CROMWELL 16, STATION 34, 22- ON LAT, 148- 1W LENG, MAY 27, 1965, 2100 G.C.T.		WET PULB 19.5			WIND SPEED 15, DIR. C9			BAR. 2C		WEATHER 01		VIS. 8		CLOUD TYPE 9, COVER 6	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	23.25	34.49	5.02		23.50	440.0	0	23.25	34.49	23.50	440.0	0.000			
10	23.21	34.50	5.19	0.65	23.52	438.6	10	23.21	34.50	23.52	438.6	0.044			
30 ^A	23.20	34.50			23.52	439.1	20	23.20	34.50	23.52	438.6	0.088			
51	23.16	34.51	5.04	0.44	23.54	438.0	30	23.20	34.50	23.52	439.1	0.133			
76	22.33	34.61	5.11	0.49	23.85	409.1	50	23.17	34.51	23.53	438.4	0.221			
100	22.16	34.82	5.36	0.80	24.06	390.3	75	22.36	34.60	23.84	410.5	0.328			
125	21.83	35.12	4.97	0.74	24.38	360.8	100	22.16	34.82	24.06	390.3	0.429			
150	20.90	35.15	4.71	0.57	24.65	335.1	150	20.90	35.15	24.65	335.1	0.612			
175	19.84	35.05	4.61	0.80	24.88	313.9	200	19.22	35.05	25.02	301.5	0.772			
201	19.20	35.05	4.66	0.43	25.03	301.1	250	16.60	34.66	25.37	269.6	0.916			
226	18.32	34.92	4.56	0.51	25.15	290.0	300	12.67	34.24	25.89	219.7	1.039			
250	16.60	34.66	4.27	1.72	25.37	269.6	400	8.67	34.08	26.47	164.1	1.233			
275	14.72	34.43	4.20	1.04	25.61	246.3	500	6.98	34.14	26.76	136.6	1.385			
300	12.67	34.24	3.52	1.65	25.89	219.7	600	5.86	34.25	27.00	114.6	1.512			
400	8.67	34.08	3.55	2.06	26.47	164.3	700	5.19	34.36	27.17	99.0	1.620			
501	6.97	34.14	2.02	2.72	26.77	136.4	800	4.77	34.45	27.29	88.2	1.714			
601	5.85	34.25	0.90	3.72	27.00	114.4	1000	4.15	34.51	27.40	77.9	1.882			
801	4.77	34.45	0.70	3.37	27.29	88.1	1200	3.53	34.57	27.51	67.7	2.030			
1002	4.14	34.51	1.07	3.32	27.40	77.9	1500	2.87	34.60	27.60	59.6	2.224			
1202	3.52	34.57	1.27	3.39	27.51	67.6									
1504	2.86	34.60	1.54	3.74	27.60	59.6									

TEMPERATURE ERROR TERM AT 600. METERS IS 0.18

TEMPERATURE ERROR TERM AT 700. METERS IS 0.17

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA							
CROMWELL 16, STATION 35, 23-28N LAT, 148- 0W LENG, MAY 28, 1965, 0600 G.C.T.		WET PULB 19.6			WIND SPEEC 16, DIR. C8			BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	23.64	34.53	4.98		23.41	448.0	0	23.64	34.53	23.41	448.0	0.000			
11	23.66	34.53	5.22	0.37	23.41	449.0	10	23.66	34.53	23.41	448.9	0.045			
30 ^A	23.65	34.51			23.41	449.4	20	23.67	34.53	23.40	449.9	0.090			
51	23.43	34.60	5.00	0.59	23.33	439.0	30	23.65	34.53	23.41	449.4	0.136			
75	22.32	34.94	5.07	0.65	24.10	385.0	50	23.45	34.59	23.52	440.1	0.225			
100	22.03	35.11	5.29	0.84	24.31	365.9	75	22.32	34.94	24.10	385.0	0.329			
124	21.21	35.13	4.79	0.50	24.59	340.0	100	22.03	35.11	24.31	365.9	0.424			
150	19.99	35.05	4.69	0.62	24.82	319.0	150	19.99	35.05	24.82	319.0	0.596			
174	19.09	35.00	4.54	0.57	25.02	301.1	200	17.87	34.83	25.19	285.0	0.749			
199	17.94	34.84	4.47	0.74	25.18	285.8	250	14.46	34.40	25.65	242.2	0.882			
225	16.10	34.59	4.17	0.93	25.43	262.8	300	11.67	34.16	26.02	206.6	0.995			
249	14.52	34.41	4.44	0.89	25.64	242.8	400	8.50	34.05	26.46	165.2	1.182			
274	13.16	34.26	4.49	1.11	25.81	227.1	500	6.63	34.08	26.77	135.9	1.334			
298	11.76	34.17	4.69	1.07	26.01	207.8	600	5.58	34.17	26.97	117.0	1.462			
397	8.66	34.05	3.91	2.28	26.45	166.3	700	4.95	34.27	27.13	102.3	1.573			
497	6.67	34.03	2.06	2.14	26.76	136.6	800	4.70	34.40	27.25	91.2	1.671			
795	4.72	34.39	0.66	2.72	27.25	91.9	1000	4.13	34.60	27.48	71.2	1.835			
993	4.15	34.60	1.04	2.60	27.47	71.3	1200	3.61	34.60	27.53	66.3	1.974			
1192	3.64	34.53	1.10	2.52	27.47	71.9									
1453	2.98	34.57	1.43	2.40	27.57	62.9									

TEMPERATURE ERROR TERM AT 600. METERS IS 0.18

TEMPERATURE ERROR TERM AT 700. METERS IS 0.17

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION 36, 25-3N LAT, 147-56W LONG, MAY 28, 1965, 1500 G.C.T.		DRY BULB 21.5 WET BULB 19.9 WIND SPEED 12, DIR. 10 BAR. 20 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 2										
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	22.82	35.03	5.10		24.03	389.2	0	22.82	35.03	24.03	389.2	0.000
10	22.83	35.02	5.21	0.61	24.02	390.6	10	22.83	35.02	24.02	390.6	0.039
30 ^Δ	22.82	35.03			24.03	390.4	20	22.90	35.02	24.00	393.1	0.079
51	21.62	35.15	5.25	0.29	24.46	350.3	30	22.82	35.03	24.03	390.4	0.118
76	21.26	35.19	5.13	0.37	24.59	338.8	50	21.68	35.14	24.44	352.3	0.193
100	20.93	35.21	5.10	0.56	24.69	329.7	75	21.26	35.19	24.59	338.9	0.280
125	20.19	35.18	5.01	0.50	24.87	313.8	100	20.93	35.21	24.69	329.7	0.364
151	19.37	35.11	4.74	0.55	25.03	299.2	150	19.41	35.11	25.02	299.8	0.523
174	18.22	34.93	4.69	0.85	25.18	285.1	200	16.32	34.66	25.43	261.7	0.664
201	16.24	34.65	4.69	0.62	25.44	260.8	250	13.58	34.36	25.80	227.4	0.788
225	14.88	34.48	4.72	0.74	25.62	244.6	300	11.56	34.22	26.08	200.7	0.896
250	13.58	34.36	4.67	1.07	25.80	227.4	400	8.95	34.07	26.42	169.4	1.082
275	12.40	34.26	4.86	1.40	25.96	212.5	500	6.92	34.02	26.68	144.6	1.241
299	11.59	34.22	4.85	1.10	26.08	201.1	600	5.64	34.06	26.88	125.6	1.377
399	8.97	34.07	4.32	1.66	26.42	169.7	700	4.80	34.18	27.07	107.5	1.495
499	6.94	34.02	3.00	2.39	26.68	144.8	800	4.27	34.31	27.23	92.2	1.596
598	5.66	34.06	1.74	3.38	26.87	125.9	1000	3.74	34.47	27.41	75.9	1.766
798	4.28	34.31	0.47	3.58	27.23	92.5	1200	3.30	34.55	27.52	66.7	1.911
999	3.74	34.47	0.91	3.34	27.41	76.0						
1198	3.32	34.53	1.25	3.67	27.50	68.1						
1497	2.80	34.58	1.51	3.71	27.59	60.3						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION 37, 26-29N LAT, 148-3W LONG, MAY 28, 1965, 2300 G.C.T.		DRY BULB 20.7 WET BULB 18.5 WIND SPEED 15, DIR. 08 BAR. 23 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 4										
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	22.95	34.93	5.07		23.92	400.0	0	22.95	34.93	23.92	400.0	0.000
10	22.91	34.94	5.23	0.76	23.93	398.6	10	22.91	34.94	23.93	398.6	0.040
30 ^Δ	22.60	34.98			24.05	388.0	20	22.83	34.95	23.97	396.0	0.080
51	21.32	35.16	5.17	0.39	24.55	341.6	30	22.60	34.98	24.05	388.0	0.120
77	20.24	35.14	5.19	0.50	24.85	313.3	50	21.39	35.15	24.52	344.0	0.193
101	19.88	35.16	5.20	0.49	24.93	306.5	75	20.30	35.18	24.84	314.5	0.276
127	19.37	35.12	4.96	0.95	25.04	297.6	100	19.89	35.16	24.93	306.7	0.355
152	18.16	34.92	4.80	0.46	25.19	283.7	150	18.29	34.94	25.17	285.1	0.504
177	16.05	34.62	4.77		25.46	258.1	200	14.87	34.47	25.61	244.4	0.637
202	14.79	34.46	4.77	0.87	25.62	243.5	250	13.07	34.33	25.88	219.3	0.754
228	13.85	34.33	4.85	0.81	25.76	230.8	300	11.36	34.21	26.12	197.4	0.859
252	13.00	34.33	4.95	1.22	25.89	218.3	400	9.14	34.10	26.41	170.1	1.045
278	12.09	34.26	4.94	1.29	26.02	206.8	500	6.80	34.02	26.70	142.7	1.203
302	11.30	34.21	4.90	1.36	26.13	196.6	600	5.86	34.07	26.86	128.0	1.339
403	9.09	34.10	4.58	1.60	26.42	169.4	700	4.97	34.19	27.06	109.1	1.459
504	6.72	34.02	3.23	2.28	26.71	141.8	800	4.23	34.31	27.24	91.7	1.561
603	5.84	34.07	1.50	3.00	26.86	127.6	1000	3.75	34.45	27.39	77.8	1.732
805	4.20	34.32	0.70	3.35	27.25	90.8	1200	3.26	34.53	27.51	67.6	1.879
1007	3.74	34.45	0.81	3.29	27.40	77.5	1500	2.73	34.59	27.60	58.8	2.072
1206	3.25	34.53	1.17	2.82	27.51	67.4						
1509	2.72	34.59	1.54	3.35	27.61	58.7						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 16, STATION 38, 24-57N LAT, 150-59W LONG, MAY 29, 1965, 1700 G.C.T.		DRY BULB 22.8 WET BULB 19.3 WIND SPEED 12, DIR. 09 BAR. 23 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 5										
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.59	34.75			23.59	430.7	0	23.59	34.75	23.59	430.7	0.000
10	23.62	34.75			23.58	431.9	10	23.62	34.75	23.58	431.9	0.043
50	22.33	35.11			24.23	372.1	20	23.44	34.83	23.70	421.6	0.086
74	21.21	35.17			24.59	338.9	30	23.16	34.91	23.84	408.1	0.128
98	20.38	35.20			24.83	316.2	50	22.33	35.11	24.23	372.1	0.207
123	19.84	35.18			24.96	304.9	75	21.17	35.17	24.60	337.7	0.296
148	19.13	35.13			25.11	291.7	100	20.33	35.20	24.84	315.1	0.370
173	18.62	35.03			25.16	287.4	150	19.09	35.12	25.11	291.4	0.531
197	17.65	34.86			25.27	277.5	200	17.43	34.83	25.30	274.8	0.674
222	15.69	34.59			25.52	253.8	250	14.14	34.43	25.73	233.8	0.802
245	14.40	34.45			25.70	237.3	300	12.19	34.27	26.00	208.7	0.914
270	13.23	34.36			25.87	221.0	400	9.09	34.08	26.41	170.7	1.105
295	12.36	34.28			25.98	210.8	500	6.84	34.03	26.70	142.5	1.263
393	9.28	34.09			26.38	173.0	600	5.55	34.11	26.93	120.9	1.396
493	6.96	34.03			26.68	144.2	700	4.80	34.22	27.10	104.4	1.510
591	5.64	34.10			26.91	122.6	800	4.41	34.33	27.23	92.4	1.610
787	4.44	34.32			27.22	93.5	1000	4.07	34.48	27.38	79.5	1.783
985	4.11	34.47			27.38	80.3	1200	3.52	34.53	27.48	70.7	1.936
1157	3.63	34.52			27.46	72.3	1500	2.89	34.58	27.58	61.6	2.137
1453	2.98	34.57			27.57	62.9	2000	2.12	34.63	27.69	50.8	2.422
1970	2.15	34.63			27.69	51.2	2500	1.81	34.66	27.74	46.7	2.671
2476	1.82	34.66			27.74	46.9	3000	1.64	34.68	27.77	44.7	2.904
2981	1.64	34.68			27.76	44.7	4000	1.48	34.70	27.79	43.7	3.357
3989	1.50	34.70			27.79	44.2						
4998	1.50	34.70			27.79	46.8						

Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 16, STATION 39, 25- ON LAT, 154- 1W LONG, MAY 30, 1965, 1100 G.C.T.												
DRY BULB 21.7		WET BULB 19.7		WIND SPEED 18, DIR. 08			BAR. 24		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.43	35.05	4.94		23.87	404.6	0	23.43	35.05	23.87	404.6	0.000
10	23.42	35.04	5.03	0.39	23.86	405.4	10	23.42	35.04	23.86	405.4	0.041
52	22.28	35.12	5.29	0.53	24.25	370.1	20	23.26	35.05	23.92	400.8	0.081
77	21.30	35.20	5.28	0.65	24.58	339.2	30	23.03	35.06	23.99	393.8	0.121
101	20.83	35.24	5.08	0.58	24.74	325.0	50	22.36	35.11	24.22	372.7	0.199
153	19.33	35.15	4.95	0.31	25.07	295.4	75	21.37	35.19	24.56	341.5	0.289
176	18.77	35.07	5.11	0.38	25.15	288.3	100	20.85	35.24	24.74	325.4	0.373
205	17.16	34.78	4.65	0.83	25.33	272.2	150	19.42	35.16	25.05	296.8	0.529
228	15.25	34.52	4.63	0.74	25.57	249.6	200	17.51	34.84	25.29	275.8	0.674
252	14.04	34.41	4.56	1.45	25.74	233.1	250	14.13	34.42	25.73	234.3	0.802
278	12.69	34.30	4.58	0.97	25.93	215.2	300	11.82	34.20	26.02	206.7	0.913
303	11.72	34.19	4.68	0.78	26.03	205.7	400	9.09	34.08	26.40	170.9	1.104
404	8.97	34.08	4.29	1.66	26.42	169.0	500	5.95	34.02	26.81	131.4	1.257
449	6.85	34.03	3.00	1.81	26.70	142.1	600	5.52	34.09	26.92	121.6	1.384
570	5.74	34.06	1.73	2.76	26.86	126.6	700	4.91	34.23	27.10	105.3	1.499
722	4.80	34.26	0.71	3.26	27.13	101.7	800	4.53	34.35	27.24	92.2	1.599
876	4.34	34.43	0.90	3.22	27.32	85.0	1000	4.09	34.49	27.39	78.6	1.772
1032	4.03	34.50	0.99	3.26	27.41	77.5	1200	3.57	34.55	27.49	70.0	1.922
1274	3.39	34.54	1.26	3.30	27.50	68.8						

TEMPERATURE ERROR TERM AT 500. METERS IS 0.26

CROMWELL 16, STATION 40, 24-58N LAT, 156-56W LONG, MAY 31, 1965, 0200 G.C.T.												
DRY BULB 24.6		WET BULB 20.2		WIND SPEED 12, DIR. 10			BAR. 23		WEATHER 02		VIS. 8 CLOUD TYPE 1, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.13	34.77			23.45	444.4	0	24.13	34.77	23.45	444.4	C.000
10	24.24	34.76			23.41	448.7	10	24.24	34.76	23.41	448.7	C.045
20 ^A	24.24	34.76			23.41	449.1	20	24.24	34.76	23.41	449.1	C.090
30 ^A	24.24	34.76			23.41	449.5	30	24.24	34.76	23.41	449.5	0.135
49	23.15	34.71			23.69	423.3	50	23.11	34.72	23.71	421.6	0.223
75	22.04	34.95			24.19	376.8	75	22.04	34.95	24.19	376.8	0.324
100	20.38	34.96			24.65	333.6	100	20.38	34.96	24.65	333.6	0.412
124	18.66	34.81			24.98	302.7	150	17.24	34.68	25.23	279.6	0.568
149	17.33	34.69			25.22	280.9	200	13.29	34.31	25.82	223.9	0.695
173	15.13	34.45			25.54	250.5	250	10.96	34.18	26.16	191.9	0.799
198	13.39	34.32			25.81	225.2	300	9.23	34.09	26.39	170.5	0.891
223	12.26	34.24			25.97	210.1	400	7.45	34.09	26.66	145.3	1.050
248	11.06	34.18			26.15	193.4	500	5.99	34.11	26.88	125.0	1.187
273	9.90	34.13			26.31	177.8	600	5.23	34.23	27.06	108.3	1.304
298	9.27	34.09			26.38	171.0	700	4.72	34.33	27.20	95.3	1.407
397	7.50	34.09			26.65	146.0	800	4.35	34.41	27.30	85.6	1.499
496	6.03	34.11			26.87	125.8	1000	3.72	34.49	27.43	74.2	1.660
595	5.26	34.22			27.05	109.0	1200	3.26	34.54	27.52	66.7	1.803
794	4.37	34.41			27.30	86.1						
994	3.74	34.49			27.43	74.5						
1180	3.31	34.54			27.51	67.2						
1428	2.90	34.55			27.56	63.2						

CROMWELL 16, STATION 41, 23-30N LAT, 156-58W LONG, MAY 31, 1965, 1000 G.C.T.												
DRY BULB 22.2		WET BULB 20.5		WIND SPEED 18, DIR. 09			BAR. 23		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.80	34.76			23.54	435.9	0	23.80	34.76	23.54	435.9	0.000
10	24.02	34.75			23.47	443.2	10	24.02	34.75	23.47	443.2	0.044
20 ^A	24.02	34.75			23.47	443.6	20	24.02	34.75	23.47	443.6	0.089
30 ^A	24.02	34.75			23.47	443.9	30	24.02	34.75	23.47	443.9	0.134
51	22.48	34.93			24.09	385.5	50	22.57	34.97	24.05	389.0	0.218
75	21.13	35.10			24.55	341.9	75	21.13	35.10	24.55	341.9	0.310
99	20.12	35.12			24.84	315.4	100	20.05	35.11	24.85	314.3	0.392
123	18.49	34.91			25.10	291.3	150	17.28	34.74	25.27	276.0	0.541
149	17.35	34.75			25.26	277.0	200	13.78	34.35	25.75	231.1	0.669
171	15.70	34.57			25.50	253.9	250	10.93	34.16	26.15	192.5	0.776
196	14.06	34.37			25.71	234.9	300	9.31	34.11	26.39	170.1	0.867
220	12.44	34.25			25.94	212.6	400	7.05	34.04	26.68	143.5	1.025
245	11.12	34.17			26.13	195.1	500	5.54	34.09	26.91	121.3	1.159
268	10.34	34.14			26.24	184.3	600	4.74	34.21	27.10	103.5	1.272
292	9.54	34.12			26.36	173.0	700	4.42	34.33	27.23	92.0	1.371
386	7.32	34.04			26.64	146.9	800	4.26	34.42	27.32	84.0	1.460
483	5.74	34.07			26.87	124.8	1000	3.71	34.51	27.45	72.8	1.619
578	4.84	34.18			27.07	106.6	1200	3.22	34.55	27.53	65.3	1.759
770	4.34	34.40			27.30	96.3						
960	3.93	34.50			27.43	74.5						
1151	3.30	34.53			27.50	67.6						
1441	2.76	34.57			27.59	60.2						

▲FROM BT DATA

Table 1.--Continued

ORIGINAL DATA		DERIVED DATA		INTERPOLATED DATA		
CROMWELL	16, STATION	42, 22- ON LAT,	156-59W LONG,	MAY 31, 1965,	1900 G.C.T.	
DRY BULB 23.9	WET BULB 20.7	WIND SPEED 14,	DIR. 10	BAR. 21	WEATHER 02	VIS. 8 CLOUD TYPE 8, COVER 3

OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 17

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 1, 20-36N LAT, 157-14W LONG, JUNE 11, 1965, 0600 G.C.T.													
DRY BULB 25.0		WET BULB 21.9		WIND SPEED 17, DIR. 05		BAR. 22		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.38	34.55			22.91	496.3	0	25.38	34.55	22.91	496.3	0.000	
9	25.40	34.55			22.90	497.2	10	25.40	34.55	22.90	497.4	0.050	
47	25.27	34.55			22.94	494.9	20	25.40	34.54	22.90	498.0	0.100	
70	25.04	34.61			23.06	484.8	30	25.37	34.54	22.90	497.7	0.150	
93	22.95	35.06			24.01	394.2	50	25.30	34.55	22.93	496.1	0.250	
100Δ	22.74	35.10			24.10	385.8	75	24.57	34.71	23.27	464.2	0.371	
116	22.41	35.16			24.24	373.1	100	22.74	35.10	24.10	385.8	0.478	
139	21.00	35.15			24.63	337.2	150	20.46	35.12	24.75	326.0	0.658	
162	19.82	35.06			24.87	314.4	200	17.36	34.78	25.28	276.9	0.810	
186	17.87	34.84			25.20	283.8	250	12.73	34.31	25.93	214.6	0.934	
209	16.97	34.73			25.33	271.7	300	10.38	34.17	26.26	183.4	1.034	
232	14.42	34.44			25.68	238.1	400	8.18	34.17	26.62	150.1	1.202	
256	12.26	34.28			26.00	208.0	500	6.30	34.22	26.92	121.1	1.339	
279	11.06	34.20			26.16	192.6	600	5.53	34.33	27.10	104.2	1.453	
372	8.88	34.17			26.51	160.4	700	5.08	34.42	27.23	93.3	1.553	
466	6.74	34.19			26.84	128.9	800	4.80	34.47	27.30	87.0	1.644	
560	5.78	34.29			27.04	110.0	1000	4.18	34.52	27.41	77.7	1.811	
748	4.95	34.45			27.27	89.8	1200	3.56	34.56	27.50	69.0	1.959	
938	4.41	34.50			27.37	81.3							
1130	3.69	34.55			27.48	70.6							
1428	2.96	34.58			27.58	61.7							
TEMPERATURE ERROR TERM AT 75. METERS IS 0.11													
TEMPERATURE ERROR TERM AT 200. METERS IS 0.10													
TEMPERATURE ERROR TERM AT 300. METERS IS 0.12													

ORIGINAL DATA												DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 2, 18-59N LAT, 156-59W LONG, JUNE 11, 1965, 1600 G.C.T.																			
DRY BULB 24.5		WET BULB 21.4		WIND SPEED 10, DIR. 18		BAR. 20		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 7							
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.							
0	25.57	34.32			22.68	518.4	0	25.57	34.32	22.68	518.4	0.000							
10	25.57	34.30			22.66	520.3	10	25.57	34.30	22.66	520.3	0.052							
30Δ	25.57	34.30			22.66	521.1	20	25.57	34.30	22.66	520.9	0.105							
51	25.59	34.31			22.66	521.8	30	25.57	34.30	22.66	521.1	0.157							
77	25.01	34.54			23.01	489.3	50	25.59	34.31	22.66	522.0	0.262							
103	23.46	34.94			23.78	417.4	75	25.08	34.52	22.97	493.1	0.390							
128	21.96	35.03			24.27	370.8	100	23.66	34.90	23.69	426.0	0.506							
154	21.62	35.1P			24.48	351.9	150	21.64	35.16	24.46	353.7	0.702							
179	21.13	35.13			24.61	339.9	200	19.99	35.10	24.86	316.9	0.871							
205	19.64	35.07			24.93	310.7	250	15.24	34.49	25.55	252.1	1.015							
231	17.53	34.76			25.22	283.1	300	12.13	34.26	26.01	207.7	1.131							
255	14.66	34.43			25.63	244.5	400	8.94	34.22	26.53	158.5	1.316							
281	13.02	34.32			25.88	220.2	500	6.71	34.22	26.86	127.0	1.460							
306	11.88	34.25			26.05	204.3	600	5.75	34.31	27.06	108.9	1.579							
406	8.80	34.22			26.56	156.1	700	5.19	34.39	27.19	96.7	1.683							
510	6.54	34.22			26.89	124.6	800	4.77	34.45	27.29	87.9	1.776							
611	5.70	34.42			27.07	107.4	1000	4.12	34.53	27.42	76.4	1.942							
815	4.72	34.46			27.30	86.9	1200	3.60	34.57	27.50	68.7	2.089							
1016	4.08	34.53			27.43	75.8	1500	2.87	34.61	27.61	59.0	2.284							
1219	3.55	34.57			27.51	68.1													
1523	2.82	34.61			27.61	58.5													

ORIGINAL DATA												DERIVED DATA		INTERPOLATED DATA					
CROMWELL 17, STATION 3, 17-30N LAT, 157-0W LONG, JUNE 12, 1965, 0100 G.C.T.																			
DRY BULB 26.2		WET BULB 22.0		WIND SPEED 24, DIR. 07		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 6							
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.							
0	25.40	34.44			22.82	504.8	0	25.40	34.44	22.82	504.8	0.000							
10	25.39	34.44			22.82	504.9	10	25.39	34.44	22.82	504.9	0.051							
50	25.40	34.43			22.81	507.5	20	25.39	34.44	22.82	505.5	0.102							
76	25.39	34.44			22.82	507.5	30	25.39	34.43	22.82	506.2	0.153							
99	25.33	34.43			22.83	507.4	50	25.40	34.43	22.81	507.5	0.255							
124	22.69	34.82			23.91	405.6	75	25.39	34.44	22.82	507.5	0.383							
149	19.83	34.82			24.67	333.1	100	25.25	34.45	22.87	504.0	0.510							
174	18.18	34.75			25.08	295.0	150	19.81	34.82	24.69	331.1	0.720							
199	16.72	34.61			25.30	274.4	200	16.61	34.60	25.32	272.8	0.873							
225	13.97	34.35			25.71	235.3	250	12.44	34.27	25.96	212.1	0.995							
249	12.49	34.27			25.95	212.8	300	10.67	34.30	26.31	178.9	1.094							
275	11.38	34.23			26.13	196.0	400	9.09	34.51	26.74	139.2	1.254							
300	10.67	34.30			26.31	178.9	500	7.71	34.46	26.91	123.4	1.387							
400	9.09	34.51			26.74	139.2	600	6.83	34.48	27.05	110.7	1.505							
500	7.71	34.46			26.91	123.4	700	6.11	34.50	27.16	100.9	1.612							
601	6.82	34.48			27.06	110.6	800	5.51	34.51	27.25	93.2	1.710							
799	5.52	34.51			27.25	93.3	1000	4.64	34.52	27.36	83.4	1.889							
1001	4.64	34.52			27.36	83.4	1200	3.97	34.52	27.43	76.8	2.051							
1201	3.97	34.52			27.43	76.8	1500	3.14	34.58	27.56	64.4	2.266							
1503	3.13	34.58			27.56	64.3													

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 17, STATION 4, 16- ON LAT, 157- ON LONG, JUNE 13, 1965, 0000 G.C.T.												
DRY BULB 25.0		WET BULB 22.5		WIND SPEED 24, DIR. 06		BAR. 17		WEATHER 01		VIS. 8 CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	PHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.19	34.46			22.90	497.2	0	25.19	34.46	22.90	497.2	0.000
10	25.34	34.46			22.85	502.0	10	25.34	34.46	22.85	502.0	0.050
30 ^Δ	25.31	34.46			22.86	501.9	20	25.36	34.46	22.85	503.0	0.101
51	25.16	34.46			22.91	498.4	30	25.31	34.46	22.86	501.9	0.152
77	23.08	34.72			23.72	421.7	50	25.18	34.46	22.90	499.2	0.252
102	21.86	34.95			24.26	371.4	75	23.26	34.70	23.65	428.5	0.369
126	20.18	34.97			24.71	328.7	100	21.90	34.94	24.22	374.9	0.470
153	19.24	34.93			24.93	309.1	150	19.38	34.94	24.90	311.4	0.643
177	16.34	34.60			25.38	265.9	200	13.60	34.32	25.76	229.7	0.780
203	13.30	34.29			25.80	225.8	250	11.56	34.38	26.21	187.8	0.885
229	12.00	34.27			26.04	203.2	300	10.69	34.48	26.44	166.2	0.974
254	11.50	34.40			26.24	185.2	400	9.98	34.63	26.69	144.7	1.131
280	10.86	34.44			26.38	171.5	500	8.72	34.60	26.87	128.8	1.269
306	10.67	34.49			26.46	165.1	600	7.65	34.55	26.99	117.4	1.393
406	9.93	34.64			26.70	143.6	700	6.79	34.53	27.09	108.3	1.508
508	8.61	34.59			26.88	127.7	800	6.07	34.51	27.18	100.6	1.613
609	7.57	34.55			27.00	116.5	1000	4.99	34.53	27.32	87.4	1.803
812	5.99	34.51			27.19	99.8	1200	4.32	34.56	27.42	78.4	1.971
1015	4.93	34.53			27.33	86.5	1500	3.42	34.59	27.54	67.3	2.193
1217	4.27	34.56			27.43	77.8						
1521	3.37	34.59			27.55	66.7						

CROMWELL 17, STATION 5, 14-30N LAT, 157- 1W LONG, JUNE 13, 1965, 1000 G.C.T.												
DRY BULB 24.7		WET BULB 22.0		WIND SPEED 23, DIR. 07		BAR. 17		WEATHER 02		VIS. 6 CLOUD TYPE 2, COVER 4		
DEPTH	TEMP.	SAL.	PHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.53	34.47			22.80	506.5	0	25.53	34.47	22.80	506.5	0.000
9	25.55	34.47			22.79	507.4	10	25.55	34.47	22.79	507.4	0.051
30 ^Δ	25.54	34.47			22.80	507.9	20	25.55	34.47	22.80	507.7	0.102
47	25.57	34.47			22.79	509.5	30	25.54	34.47	22.80	507.9	0.153
50 ^Δ	25.57	34.47			22.79	509.6	50	25.57	34.47	22.79	509.6	0.256
72	24.98	34.45			22.95	494.7	75	24.80	34.50	23.05	485.7	0.381
96	23.36	34.92			23.79	415.7	100	23.15	34.97	23.89	406.6	0.494
120	22.07	35.11			24.30	367.7	150	19.88	35.08	24.87	313.9	0.675
144	20.27	35.11			24.79	321.5	200	14.10	34.38	25.71	235.1	0.814
169	18.33	34.90			25.13	289.8	250	11.16	34.46	26.35	174.6	0.917
194	14.89	34.45			25.59	246.1	300	10.35	34.58	26.58	153.0	0.999
218	12.16	34.27			26.01	205.9	400	8.89	34.55	26.80	133.0	1.144
242	11.19	34.39			26.29	180.1	500	7.85	34.54	26.96	119.4	1.271
266	11.16	34.58			26.44	166.2	600	6.77	34.50	27.08	108.6	1.386
290	10.55	34.53			26.55	156.0	700	6.06	34.50	27.17	100.3	1.492
387	9.03	34.55			26.78	135.1	800	5.53	34.51	27.25	93.1	1.590
485	8.03	34.55			26.94	121.3	1000	4.56	34.54	27.38	80.7	1.765
582	6.92	34.50			27.06	110.3	1200	3.84	34.57	27.48	71.8	1.920
778	5.65	34.51			27.23	94.8						
973	4.67	34.54			27.37	82.0						
1169	3.97	34.56			27.46	73.6						
1464	3.21	34.60			27.57	63.6						

CROMWELL 17, STATION 6, 13- 1N LAT, 157- 1W LONG, JUNE 13, 1965, 1800 G.C.T.												
DRY BULB 24.9		WET BULB 22.1		WIND SPEED 25, DIR. 07		BAR. 15		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	PHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.08	34.60			22.73	513.4	0	26.08	34.60	22.73	513.4	0.000
9	26.10	34.60			22.72	514.3	10	26.10	34.60	22.72	514.4	0.052
49	26.11	34.59			22.71	516.9	20	26.11	34.60	22.72	515.3	0.104
74	26.11	34.60			22.72	517.2	30	26.11	34.59	22.71	516.0	0.156
98	26.09	34.60			22.73	517.6	50	26.11	34.59	22.71	517.0	0.260
122	24.02	34.64			23.38	455.4	75	26.13	34.60	22.71	517.9	0.390
147	18.61	34.63			24.86	315.3	100	26.02	34.60	22.75	515.2	0.520
171	14.31	34.41			25.68	236.3	150	17.97	34.60	24.99	302.2	0.726
195	12.73	34.36			25.97	209.4	200	12.32	34.34	26.04	203.1	0.853
220	10.98	34.32			26.27	181.0	250	10.68	34.50	26.47	163.0	0.946
245	10.72	34.48			26.44	165.3	300	10.11	34.58	26.63	148.4	1.024
269	10.53	34.57			26.54	156.0	400	9.07	34.60	26.82	131.9	1.166
294	10.17	34.58			26.61	149.6	500	7.67	34.54	26.98	117.3	1.291
391	9.20	34.61			26.80	133.4	600	6.67	34.51	27.10	106.3	1.404
490	7.79	34.54			26.96	118.5	700	5.84	34.51	27.21	96.0	1.507
587	6.79	34.51			27.08	107.8	800	5.20	34.53	27.30	87.5	1.599
783	5.29	34.53			27.29	88.6	1000	4.41	34.56	27.42	77.3	1.766
980	4.48	34.56			27.41	78.2	1200	3.74	34.58	27.50	69.3	1.915
1177	3.81	34.58			27.49	70.2						
1474	3.08	34.60			27.58	62.0						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 7, 11-29N LAT, 156-59W LONG, JUNE 14, 1965, 0400 G.C.T.													
DRY BULB 26.1		WET BULB 22.7		WIND SPEED 23, DIR. 06		BAR. 12		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.10	34.65			22.76	510.4	0	26.10	34.65	22.76	510.4	0.000	
9	26.12	34.65			22.75	511.3	10	26.12	34.65	22.75	511.4	0.051	
49	26.05	34.64			22.77	511.6	20	26.11	34.65	22.75	511.8	0.103	
75	26.02	34.65			22.78	511.0	30	26.10	34.64	22.76	511.9	0.155	
100	24.82	34.63			23.14	478.2	50	26.06	34.64	22.77	511.9	0.258	
125	16.91	34.58			25.23	278.5	75	26.02	34.65	22.78	511.0	0.387	
151	13.09	34.44			25.96	209.3	100	24.82	34.63	23.14	478.2	0.511	
175	12.08	34.65			26.32	175.5	150	13.17	34.44	25.95	210.7	0.685	
201	11.54	34.74			26.49	159.7	200	11.55	34.74	26.49	160.0	0.778	
225	11.12	34.72			26.55	154.2	250	10.78	34.73	26.62	148.2	0.856	
251	10.77	34.73			26.43	147.9	300	10.18	34.71	26.71	140.3	0.929	
277	10.42	34.72			26.68	143.2	400	9.28	34.68	26.84	129.8	1.065	
301	10.17	34.71			26.72	140.2	500	8.36	34.63	26.95	120.6	1.191	
330	9.97	34.69			26.73	139.0	600	7.41	34.60	27.06	110.5	1.308	
400	9.28	34.68			26.84	129.8	700	6.54	34.57	27.17	101.2	1.415	
503	8.33	34.63			26.95	120.3	800	5.76	34.56	27.26	92.8	1.513	
805	5.72	34.56			27.26	92.3	1000	4.73	34.56	27.38	81.7	1.689	
1006	4.71	34.56			27.38	81.4	1200	3.96	34.58	27.48	72.3	1.845	
1206	3.94	34.58			27.48	72.1	1500	3.13	34.61	27.58	62.2	2.050	
1507	3.12	34.61			27.58	62.0							

CROMWELL 17, STATION 7A, 10-1N LAT, 154-1W LONG, JUNE 15, 1965, 0100 G.C.T.													
DRY BULB 25.5		WET BULB 24.2		WIND SPEED 24, DIR. 07		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.96	34.72	4.83		22.54	531.3	0	26.96	34.72	22.54	531.3	0.000	
9	26.94	34.72	4.96	0.22	22.55	531.0	10	26.94	34.72	22.55	531.0	0.054	
30Δ	26.91	34.71			22.55	531.7	20	26.92	34.71	22.55	531.3	0.107	
50	26.89	34.71	4.78	0.30	22.56	531.9	30	26.91	34.71	22.55	531.7	0.161	
75	25.56	34.66	4.95	0.30	22.93	496.6	50	26.89	34.71	22.56	531.9	0.268	
100	20.05	34.67	4.63	0.50	24.52	346.2	75	25.56	34.66	22.93	496.6	0.397	
125	15.37	34.49	3.73	0.90	25.52	251.3	100	20.05	34.67	24.52	346.2	0.503	
152	11.45	34.32	2.44	1.90	26.18	187.7	150	11.65	34.32	26.15	191.2	0.639	
175	11.48	34.71	0.24	2.53	26.48	160.2	200	11.07	34.74	26.58	151.3	0.725	
203	11.01	34.73	0.29	2.37	26.58	151.0	250	10.45	34.75	26.70	141.0	0.799	
226	10.74	34.73	0.31	2.27	26.63	146.9	300	9.92	34.73	26.77	134.6	0.868	
251	10.44	34.75	0.34	2.54	26.70	140.8	400	9.14	34.69	26.87	126.7	1.000	
277	10.15	34.73	0.38	3.46	26.73	137.9	500	8.21	34.63	26.97	118.3	1.124	
302	9.90	34.73	0.42	2.50	26.78	134.3	600	7.18	34.58	27.09	108.2	1.238	
403	9.12	34.69	0.30	2.13	26.88	126.5	700	6.37	34.54	27.16	101.2	1.344	
503	8.18	34.63	0.33	2.66	26.98	118.0	800	5.71	34.52	27.23	95.0	1.443	
605	7.13	34.58	0.53	2.52	27.09	107.8	1000	4.61	34.57	27.40	79.5	1.620	
806	5.67	34.52	0.76	2.32	27.24	94.6	1200	3.83	34.59	27.50	70.0	1.771	
1008	4.57	34.57	1.06	3.31	27.40	78.9	1500	3.04	34.62	27.60	60.3	1.969	
1210	3.80	34.59	1.41	2.52	27.50	69.6							
1513	3.02	34.62	1.81	2.77	27.60	60.1							

CROMWELL 17, STATION 8, 11-31N LAT, 153-58W LONG, JUNE 15, 1965, 1100 G.C.T.													
DRY BULB 24.6		WET BULB 22.1		WIND SPEED 24, DIR. 06		BAR. 14		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.16	34.67	4.90		22.76	510.7	0	26.16	34.67	22.76	510.7	0.000	
9	26.31	34.67	4.93	0.25	22.71	515.6	10	26.32	34.67	22.71	515.8	0.052	
30Δ	26.31	34.65			22.69	517.9	20	26.34	34.66	22.69	517.5	0.104	
45	26.31	34.63	4.84	0.29	22.68	519.9	30	26.31	34.65	22.69	517.9	0.156	
69	26.36	34.67	4.83	0.34	22.69	519.5	50	26.33	34.64	22.68	519.7	0.260	
75Δ	26.34	34.65			22.68	520.6	75	26.34	34.65	22.68	520.6	0.391	
90	18.70	34.49	4.07	0.72	24.73	325.7	100	16.03	34.45	25.33	268.0	0.491	
113	14.19	34.42	2.86	2.12	25.72	231.5	150	11.69	34.35	26.16	189.7	0.606	
136	12.49	34.36	2.53	1.80	26.02	203.4	200	10.26	34.52	26.55	153.7	0.693	
159	11.26	34.36	1.93	1.68	26.25	181.6	250	9.99	34.64	26.69	141.3	0.767	
181	10.39	34.42	1.57	2.10	26.45	162.7	300	9.51	34.67	26.80	132.7	0.836	
204	10.27	34.54	0.88	1.79	26.57	152.3	400	8.28	34.61	26.94	119.3	0.963	
227	10.24	34.65	0.40	2.17	26.66	144.2	500	7.30	34.57	27.06	109.5	1.078	
250	9.99	34.64	0.35	2.24	26.69	141.3	600	6.49	34.55	27.15	101.0	1.184	
273	9.82	34.67	0.34	2.49	26.74	136.7	700	5.85	34.55	27.24	93.7	1.283	
363	8.70	34.63	0.40	2.58	26.90	123.5	800	5.34	34.56	27.30	87.6	1.374	
456	7.70	34.58	0.50	2.79	27.01	113.7	1000	4.52	34.58	27.42	77.5	1.542	
731	5.68	34.55	0.95	2.85	27.26	91.6	1200	3.86	34.60	27.50	69.5	1.690	
917	4.86	34.57	1.06	3.12	27.37	81.6							
1105	4.13	34.59	1.30	2.51	27.47	72.8							
1397	3.38	34.62	1.64	3.01	27.57	63.7							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.24

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL 17, STATION 9, 12-56N LAT, 154- 1W LONG, JUNE 15, 1965, 2100 G.C.T.													
DRY BULB 25.2		WET BULB 21.0		WIND SPEED 21, DIR. 05		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.93	34.77	4.93		22.90	496.7	0	25.93	34.77	22.90	496.7	0.000	
9	25.92	34.78	4.93		22.91	496.0	10	25.91	34.78	22.92	495.6	0.050	
30 ^Δ	25.91	34.78			22.92	496.6	20	25.84	34.78	22.94	493.8	0.100	
47	26.81	34.78	4.84	0.31	22.63	524.3	30	25.91	34.78	22.92	496.6	0.150	
72	25.48	34.64	4.89	0.31	22.94	495.6	50	26.71	34.76	22.65	522.4	0.252	
95	25.19	34.64	4.90	0.27	23.03	488.0	75	25.44	34.63	22.95	495.1	0.380	
100 ^Δ	25.00	34.65			23.10	482.0	100	25.00	34.65	23.10	482.0	0.504	
118	21.52	34.85	4.97	0.34	24.26	371.8	150	15.17	34.48	25.56	248.2	0.688	
143	16.46	34.55	3.55	1.09	25.31	271.2	200	10.89	34.46	26.40	188.5	0.793	
166	12.72	34.38	2.31	1.81	25.99	207.0	250	10.64	34.68	26.61	149.6	0.873	
190	11.02	34.40	1.78	2.23	26.32	175.2	300	10.15	34.68	26.69	142.4	0.946	
215	10.94	34.57	0.69	2.21	26.47	161.8	400	9.05	34.63	26.84	130.0	1.084	
238	10.75	34.66	0.36	2.57	26.58	152.4	500	7.72	34.56	26.99	116.3	1.208	
262	10.52	34.68	0.26	2.71	26.63	147.5	600	6.87	34.52	27.08	108.0	1.321	
285	10.29	34.68	0.25	2.46	26.67	144.1	700	6.00	34.52	27.19	98.0	1.426	
381	9.33	34.64	0.25	2.46	26.80	133.1	800	5.32	34.53	27.28	89.4	1.520	
477	7.94	34.57	0.34	3.10	26.97	118.3	1000	4.54	34.56	27.40	79.0	1.691	
572	7.13	34.53	0.47	2.72	27.05	110.9	1200	3.85	34.58	27.49	71.3	1.843	
763	5.51	34.52	0.50	2.67	27.26	92.0							
955	4.71	34.56	0.94	3.18	27.38	80.8							
1147	4.02	34.56	1.23	3.13	27.46	74.0							
1438	3.21	34.59	1.59	3.13	27.56	64.1							

CROMWELL 17, STATION 10, 14-30N LAT, 154- 1W LONG, JUNE 16, 1965, 1000 G.C.T.													
DRY BULB 25.0		WET BULB 22.0		WIND SPEED 25, DIR. 06		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.60	34.56	4.88		22.85	502.0	0	25.60	34.56	22.85	502.0	0.000	
9	25.70	34.56	5.04	0.26	22.82	505.3	10	25.70	34.56	22.82	505.5	0.051	
20 ^Δ	25.71	34.56			22.81	506.1	20	25.71	34.56	22.81	506.1	0.102	
50	25.73	34.56	4.88	0.25	22.81	507.9	30	25.72	34.56	22.81	506.7	0.153	
75	25.73	34.56	4.87	0.23	22.81	508.8	50	25.73	34.56	22.81	507.9	0.255	
99	25.29	34.57	4.87	0.29	22.95	496.1	75	25.73	34.56	22.81	508.8	0.383	
124	20.60	34.62	4.75	0.50	24.33	364.7	100	25.14	34.57	23.00	491.5	0.509	
151	16.25	34.51	3.62	1.62	25.33	269.7	150	16.39	34.52	25.31	272.3	0.701	
174	13.79	34.34	3.48	1.89	25.74	231.0	200	11.69	34.28	26.11	196.4	0.820	
198	11.83	34.28	2.87	1.72	26.08	198.6	250	9.97	34.40	26.51	158.3	0.909	
224	10.45	34.29	2.39	2.05	26.34	174.2	300	9.56	34.50	26.66	145.5	0.986	
249	9.98	34.40	1.51	2.31	26.51	158.8	400	8.66	34.59	26.87	126.5	1.123	
274	9.70	34.46	0.97	2.11	26.60	150.2	500	7.69	34.56	26.99	115.8	1.245	
299	9.57	34.50	0.87	2.22	26.65	145.7	600	6.89	34.55	27.10	106.4	1.357	
399	8.67	34.59	0.38	2.65	26.87	126.7	700	6.31	34.54	27.17	100.3	1.462	
499	7.70	34.56	0.56	2.95	26.99	115.9	800	5.71	34.54	27.25	93.3	1.560	
600	6.89	34.55	0.57	2.40	27.10	106.4	1000	4.48	34.56	27.41	78.3	1.733	
771	5.92	34.54	0.65	2.53	27.22	96.1	1200	3.70	34.58	27.50	69.2	1.883	
934	4.78	34.56	0.85	3.18	27.37	81.5							
1100	4.11	34.56	1.03	3.18	27.45	74.7							
1351	3.37	34.60	1.37	3.06	27.55	64.7							

CROMWELL 17, STATION 11, 15-59N LAT, 154- 1W LONG, JUNE 16, 1965, 1800 G.C.T.													
DRY BULB 24.5		WET BULB 21.5		WIND SPEED 18, DIR. 05		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	25.03	34.48	4.94		22.96	491.1	0	25.03	34.48	22.96	491.1	0.000	
10	25.29	34.48	5.20	0.27	22.88	499.1	10	25.29	34.48	22.88	499.1	0.050	
30 ^Δ	25.30	34.48			22.88	500.2	20	25.34	34.48	22.87	500.9	0.100	
48	25.31	34.49	4.89	0.26	22.88	500.5	30	25.30	34.48	22.88	500.2	0.151	
50 ^Δ	25.31	34.48			22.88	501.3	50	25.31	34.48	22.88	501.3	0.252	
74	25.31	34.48	4.89	0.26	22.88	502.2	75	25.27	34.49	22.89	500.8	0.378	
97	23.87	34.64	5.16	0.28	23.43	450.2	100	23.53	34.67	23.55	438.9	0.496	
121	21.19	34.84	5.14	0.28	24.34	363.9	150	19.59	34.95	24.85	316.3	0.686	
147	19.77	34.95	4.76	0.32	24.80	320.6	200	15.39	34.50	25.52	252.9	0.830	
170	18.18	34.85	4.43	0.49	25.13	289.8	250	11.87	34.24	26.05	203.3	0.945	
195	15.90	34.56	4.28	0.75	25.45	259.7	300	10.12	34.29	26.40	169.9	1.039	
218	13.70	34.34	3.86	0.88	25.76	230.4	400	8.46	34.43	26.77	135.4	1.193	
242	12.27	34.25	3.67	1.81	25.97	210.0	500	7.32	34.45	26.96	118.2	1.321	
267	11.14	34.25	2.74	1.87	26.19	190.1	600	6.56	34.46	27.08	108.3	1.435	
291	10.34	34.28	2.52	1.80	26.35	174.5	700	5.87	34.48	27.18	99.0	1.540	
387	8.65	34.42	0.84	2.25	26.74	138.6	800	5.29	34.49	27.26	91.6	1.637	
484	7.46	34.45	0.55	2.83	26.94	120.2	1000	4.48	34.52	27.37	81.5	1.812	
582	6.70	34.46	0.49	3.29	27.06	110.1	1200	3.80	34.55	27.47	72.2	1.967	
777	5.40	34.49	0.76	2.70	27.25	92.9							
971	4.58	34.51	0.76	2.70	27.36	83.0							
1167	3.93	34.56	1.08	2.83	27.47	73.1							
1463	3.09	34.59	1.51	3.16	27.57	62.8							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 12, 17-30N LAT, 154-1W LONG, JUNE 17, 1965, 0400 G.C.T.													
DRY BULB 23.0		WET BULB 20.3		WIND SPEED 20, DIR. 07		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.91	34.48	5.00		23.00	487.7	0	24.91	34.48	23.00	487.7	0.000	
9	24.91	34.48	5.32	0.19	23.00	488.0	10	24.91	34.48	23.00	488.1	0.049	
30 ^Δ	24.90	34.48			23.00	488.6	20	24.91	34.48	23.00	488.4	0.098	
50	24.82	34.47	5.00	0.21	23.02	487.7	30	24.90	34.48	23.00	488.6	0.148	
75	23.93	34.58	5.23	0.18	23.37	455.4	50	24.82	34.47	23.02	487.7	0.246	
99	23.14	34.90	5.22	0.30	23.84	411.2	75	23.93	34.58	23.37	455.4	0.365	
124	22.26	35.03	5.08	0.18	24.19	378.7	100	23.11	34.91	23.85	409.8	0.474	
150	21.16	35.16	4.84	0.26	24.59	341.1	150	21.16	35.16	24.59	341.1	0.663	
174	19.82	35.09	4.70	0.31	24.90	312.7	200	18.18	34.89	25.16	288.2	0.821	
199	18.28	34.90	4.50	0.48	25.14	289.6	250	13.68	34.38	25.79	228.1	0.952	
223	15.82	34.58	4.44	0.61	25.48	257.3	300	11.10	34.27	26.21	188.8	1.057	
248	13.82	34.39	3.86	1.06	25.77	230.0	400	7.95	34.20	26.68	144.3	1.225	
273	12.23	34.27	3.46	2.27	26.00	208.6	500	6.40	34.28	26.96	117.8	1.357	
297	11.22	34.27	3.07	1.78	26.19	190.7	600	5.84	34.38	27.10	105.0	1.470	
395	8.06	34.20	2.30	2.38	26.66	146.0	700	5.23	34.43	27.22	94.4	1.570	
495	6.44	34.28	1.18	2.95	26.95	118.6	800	4.72	34.46	27.30	86.4	1.662	
592	5.89	34.37	0.82	3.00	27.09	105.9	1000	4.16	34.52	27.41	77.1	1.827	
790	4.75	34.46	0.88	2.68	27.30	87.0	1200	3.54	34.56	27.51	68.3	1.974	
987	4.20	34.52	1.17	3.18	27.41	77.7							
1184	3.53	34.56	1.33	3.11	27.51	68.3							
1483	2.81	34.60	1.67	3.26	27.60	58.8							

CROMWELL 17, STATION 13, 19-4N LAT, 154-3W LONG, JUNE 17, 1965, 1300 G.C.T.													
DRY BULB 23.5		WET BULB 20.5		WIND SPEED 14, DIR. 07		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 5, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.38	34.55	5.04		23.21	467.4	0	24.38	34.55	23.21	467.4	0.000	
11	24.39	34.55	5.25	0.26	23.21	468.1	10	24.39	34.55	23.21	468.1	0.047	
30 ^Δ	24.38	34.55			23.21	468.6	20	24.39	34.55	23.20	468.6	0.094	
49	24.26	34.56	5.06	0.25	23.25	465.2	30	24.38	34.55	23.21	468.6	0.141	
73	23.12	34.60	5.20	0.25	23.62	431.3	50	24.21	34.56	23.27	463.8	0.235	
75 ^Δ	23.08	34.61			23.64	429.5	75	23.08	34.61	23.64	429.5	0.348	
96	22.96	34.85	5.16	0.18	23.85	409.7	100	22.88	34.88	23.90	405.3	0.453	
120	22.27	35.02	5.11	0.27	24.18	379.6	150	20.85	35.16	24.68	333.0	0.639	
145	21.11	35.18	4.98	0.21	24.62	338.2	200	18.22	34.89	25.15	288.8	0.796	
169	19.85	35.04	4.79	0.33	24.85	316.9	250	13.96	34.34	25.70	236.8	0.928	
193	18.69	34.95	4.58	0.43	25.08	295.6	300	11.01	34.16	26.14	195.0	1.037	
216	16.96	34.72	4.43	0.54	25.33	272.4	400	8.13	34.13	26.59	152.2	1.212	
240	14.70	34.42	4.06	1.11	25.61	245.6	500	6.33	34.21	26.91	122.4	1.351	
265	12.98	34.25	4.24	1.02	25.84	224.1	600	5.75	34.35	27.09	105.4	1.466	
288	11.54	34.18	4.28	1.23	26.06	202.8	700	5.22	34.42	27.22	94.5	1.567	
384	8.55	34.13	2.92	2.02	26.53	158.4	800	4.80	34.46	27.29	87.6	1.659	
480	6.52	34.18	1.38	2.73	26.86	126.9	1000	4.17	34.52	27.41	77.4	1.826	
576	5.89	34.33	0.74	3.01	27.06	108.7	1200	3.58	34.56	27.50	68.9	1.974	
769	4.91	34.45	0.71	3.18	27.27	89.5							
962	4.29	34.51	0.96	3.05	27.35	79.3							
1156	3.69	34.56	1.11	3.16	27.49	70.0							
1450	2.97	34.58	1.47	3.09	27.57	62.0							

CROMWELL 17, STATION 14, 20-29N LAT, 154-2W LONG, JUNE 17, 1965, 2100 G.C.T.													
DRY BULB 24.8		WET BULB 20.8		WIND SPEED 15, DIR. 05		BAR. 20		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.92	34.44	5.02		22.96	490.8	0	24.92	34.44	22.96	490.8	0.000	
10	24.99	34.44	5.28	0.24	22.94	493.3	10	24.99	34.44	22.94	493.3	0.050	
30 ^Δ	24.98	34.44			22.95	493.8	20	25.00	34.44	22.94	493.8	0.099	
50	24.96	34.43	5.02	0.24	22.94	494.7	30	24.98	34.44	22.95	493.8	0.149	
76	24.13	34.78	5.24	0.13	23.46	446.7	50	24.96	34.43	22.94	494.7	0.249	
100	22.44	35.02	5.25	0.13	24.13	383.4	75	24.18	34.76	23.43	449.2	0.367	
126	21.37	35.16	5.05	0.37	24.53	345.7	100	22.44	35.02	24.13	383.4	0.472	
151	21.09	35.21	4.93	0.22	24.65	335.7	150	21.10	35.21	24.65	335.9	0.654	
176	20.19	35.14	4.58	0.26	24.84	318.5	200	19.30	35.04	24.99	304.1	0.815	
202	19.21	35.03	4.61	0.40	25.01	302.8	250	14.97	34.49	25.61	246.3	0.954	
227	17.57	34.80	4.59	0.46	25.25	279.8	300	10.99	34.13	26.12	197.2	1.066	
251	14.86	34.48	4.56	0.60	25.62	244.9	400	8.50	34.17	26.57	154.7	1.243	
277	12.90	34.29	4.36	1.00	25.88	219.9	500	6.92	34.22	26.84	129.8	1.387	
301	10.91	34.12	4.40	1.19	26.13	196.3	600	5.89	34.30	27.03	111.5	1.509	
402	8.50	34.18	2.66	2.10	26.58	154.3	700	5.33	34.38	27.17	99.0	1.615	
503	6.88	34.22	1.38	2.66	26.84	129.2	800	4.97	34.46	27.27	90.2	1.711	
604	5.86	34.30	0.79	3.00	27.04	110.9	1000	4.28	34.53	27.40	78.3	1.881	
806	4.96	34.46	0.87	3.05	27.27	89.8	1200	3.71	34.55	27.48	71.4	2.033	
1008	4.26	34.53	1.10	3.07	27.41	77.9	1500	2.98	34.60	27.59	61.1	2.234	
1208	3.69	34.55	1.24	3.07	27.48	71.2							
1512	2.96	34.60	1.56	3.76	27.59	60.8							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 17, STATION 15, 22- ON LAT, 153-58W LONG, JUNE 18, 1965, 0700 G.C.T.												
DRY BULB	24.0	WET BULB	24.2	WIND SPEED	17, DIR. 09	BAR. 2C	WEATHER	02	VIS. 7	CLOUD TYPE	8, COVER 2	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.96	34.71	5.02		23.16	472.5	0	24.96	34.71	23.16	472.5	0.000
10	25.01	34.73	5.08	0.34	23.16	472.9	10	25.01	34.73	23.16	472.9	0.048
30 ^A	24.80	34.73			23.22	467.7	20	25.02	34.72	23.15	474.0	0.095
50	23.20*	34.88	5.21	0.18	23.81	412.4	30	24.80	34.73	23.22	467.7	0.143
62	22.12	35.11	5.27	0.18	24.29	366.9	50	23.20	34.88	23.81	412.4	0.231
87	21.29	35.18	5.09	0.16	24.57	340.7	75	21.56	35.19	24.50	347.1	0.327
111	20.57	35.17	4.92	0.22	24.76	323.7	100	20.92	35.19	24.68	331.1	0.412
137	19.41	35.04	4.59	0.60	24.97	304.8	150	18.91	35.00	25.06	295.7	0.570
161	18.46	34.96	4.79	0.50	25.15	288.3	200	16.12	34.62	25.45	260.5	0.711
186	17.14	34.76	4.73	0.41	25.32	272.6	250	13.18	34.29	25.83	224.3	0.833
210	15.38	34.52	4.52	0.56	25.54	251.8	300	11.01	34.13	26.12	197.1	0.939
234	14.02	34.37	4.54	0.69	25.72	235.1	400	8.51	34.05	26.48	163.7	1.121
258	12.77	34.26	4.52	0.83	25.88	219.1	500	6.45	34.07	26.78	134.1	1.271
281	11.66	34.17	4.50	1.15	26.03	205.6	600	5.35	34.24	27.06	108.6	1.394
375	9.14	34.09	4.42	1.22	26.40	171.2	700	4.88	34.36	27.21	94.9	1.497
468	7.00*	34.03	2.93	2.11	26.68	144.4	800	4.62	34.44	27.30	86.7	1.588
558	5.67	34.18	1.15	2.89	26.97	116.7	1000	4.07	34.52	27.42	76.2	1.753
739	4.81	34.40	0.79	3.15	27.24	91.6	1200	3.58	34.57	27.51	68.2	1.900
921	4.30	34.50	0.98	2.92	27.38	79.8						
1103	3.79	34.54	1.20		27.46	72.3						
1380	3.20*	34.59	1.52	3.00	27.56	63.6						

CROMWELL 17, STATION 16, 23-29N LAT, 154- 0W LONG, JUNE 18, 1965, 1600 G.C.T.												
DRY BULB	23.7	WET BULB	21.1	WIND SPEED	12, DIR. 08	BAR. 2C	WEATHER	02	VIS. 7	CLOUD TYPE	8, COVER 4	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.41	34.77	4.92		23.37	452.4	0	24.41	34.77	23.37	452.4	0.000
10	24.42	34.76	5.30	0.26	23.36	453.8	10	24.42	34.76	23.36	453.8	0.046
20 ^B	24.42	34.77			23.36	453.5	20	24.42	34.77	23.36	453.5	0.091
30 ^B	24.42	34.77			23.36	453.9	30	24.42	34.77	23.36	453.9	0.137
50	22.79	35.07	5.40	0.21	24.07	387.5	50	22.79	35.07	24.07	387.5	0.222
74	21.62	35.18	5.23	0.22	24.48	349.0	75	21.59	35.18	24.49	348.0	0.314
98	20.99	35.21	5.20		24.68	331.2	100	20.94	35.21	24.69	329.8	0.400
123	20.28	35.20	5.03	0.18	24.86	314.5	150	19.20	35.10	25.06	296.0	0.557
148	19.25	35.10	4.81	0.28	25.05	296.9	200	16.65	34.70	25.39	265.9	0.699
171	18.57	35.02	5.00		25.16	286.9	250	14.45	34.45	25.68	238.6	0.826
196	16.93	34.74	4.68	0.51	25.35	269.6	300	11.62	34.19	26.05	204.1	0.938
221	15.36	34.56	4.65	0.61	25.57	248.8	400	8.60	34.10	26.49	162.0	1.123
245	14.67	34.47	4.73	0.62	25.65	241.5	500	6.72	34.09	26.76	136.5	1.273
270	13.39	34.35	4.73	1.24	25.83	224.9	600	5.42	34.15	26.97	116.5	1.401
293	11.95	34.21	4.33	0.79	26.00	208.2	700	4.90	34.27	27.13	101.9	1.511
391	8.81	34.10	3.89	1.82	26.46	164.8	800	4.69	34.39	27.25	91.3	1.609
489	6.91	34.09	2.25	2.42	26.74	139.0	1000	4.08	34.49	27.39	78.7	1.781
586	5.52	34.13	1.26	7.81	26.95	118.8	1200	3.56	34.56	27.50	69.2	1.931
782	4.75	34.38	0.76	3.11	27.23	92.8						
979	4.14	34.49	1.42	2.96	27.38	79.9						
1173	3.64	34.55	1.21	3.12	27.49	70.3						
1469	2.98	34.59	1.48	2.94	27.58	61.5						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL 17, STATION 17, 23-29N LAT, 151- 0W LONG, JUNE 19, 1965, 1000 G.C.T.												
DRY BULB	23.0	WET BULB	20.0	WIND SPEED	22, DIR. 09	BAR. 22	WEATHER	02	VIS. 6	CLOUD TYPE	8, COVER 4	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.23	34.73			23.39	450.2	0	24.23	34.73	23.39	450.2	0.000
9	24.25	34.74			23.39	450.4	10	24.23	34.74	23.40	449.6	0.045
49	22.82	34.96			23.98	396.2	20	23.98	34.78	23.50	440.0	0.090
73	21.94	35.11			24.34	362.5	30	23.66	34.84	23.64	427.6	0.134
97	21.35	35.19			24.56	342.0	50	22.78	34.97	23.99	394.6	0.217
123	20.84	35.21			24.72	328.2	75	21.88	35.12	24.36	360.4	0.312
148	20.10	35.17			24.88	313.0	100	21.29	35.20	24.58	340.2	0.400
171	19.30	35.10			25.04	298.9	150	20.04	35.17	24.90	311.9	0.564
195	18.09	34.94			25.22	282.0	200	17.82	34.89	25.25	279.2	0.713
220	16.56	34.69			25.40	265.6	250	14.17	34.42	25.72	234.9	0.843
244	14.53	34.45			25.67	240.0	300	12.04	34.26	26.02	206.7	0.954
268	13.29	34.36			25.86	222.2	400	8.62	34.06	26.46	165.1	1.142
292	12.36	34.28			25.98	210.7	500	6.55	34.04	26.74	138.1	1.295
389	8.92	34.07			26.42	168.7	600	5.46	34.14	26.96	117.6	1.424
488	6.73	34.03			26.71	141.0	700	4.85	34.25	27.12	102.6	1.535
584	5.59	34.12			26.93	120.4	800	4.52	34.36	27.24	91.7	1.634
779	4.58	34.34			27.22	93.7	1000	4.05	34.49	27.40	78.3	1.806
973	4.13	34.48			27.38	79.7	1200	3.55	34.55	27.50	69.1	1.955
1168	3.58	34.53			27.48	71.0						
1461	2.96	34.58			27.58	62.0						

TEMPERATURE ERROR TERM AT 30. METERS IS 0.10

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 17, STATION 18, 22- 1N LAT, 150-56W LONG, JUNE 19, 1965, 1900 G.C.T.												
DRY BULB 23.0		WET BULB 20.4		WIND SPEED 22, DIR. 07		BAR. 20		WEATHER 15		VIS. 7 CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.14	34.69			23.39	450.5	0	24.14	34.69	23.39	450.5	0.000
10	24.15	34.69			23.38	451.2	10	24.15	34.69	23.38	451.2	0.045
20 ^Δ	24.14	34.69			23.35	451.3	20	24.14	34.69	23.39	451.3	0.091
49	22.79	34.92			23.95	398.2	30	23.79	34.74	23.53	437.8	0.136
73	21.65	35.18			24.47	349.7	50	22.74	34.93	23.98	396.0	0.220
97	20.96	35.24			24.71	328.2	75	21.58	35.19	24.50	347.2	0.313
121	20.46	35.21			24.82	318.3	100	20.90	35.24	24.72	326.8	0.398
146	19.53	35.13			25.00	301.6	150	19.37	35.11	25.03	299.2	0.556
169	18.52	34.99			25.15	287.8	200	16.59	34.71	25.41	264.3	0.698
194	17.06	34.78			25.35	269.6	250	12.82	34.26	25.88	219.6	0.820
218	15.12	34.50			25.58	248.0	300	10.67	34.15	26.19	190.1	0.923
242	13.40	34.32			25.80	226.6	400	7.99	34.11	26.60	151.9	1.096
266	11.81	34.18			26.01	207.2	500	6.14	34.19	26.92	121.1	1.233
289	11.07	34.16			26.14	195.0	600	5.45	34.27	27.07	107.5	1.349
386	8.34	34.10			26.54	157.5	700	4.92	34.38	27.21	94.2	1.451
483	6.32	34.18			26.89	124.2	800	4.54	34.46	27.32	84.2	1.541
579	5.58	34.25			27.03	110.6	1000	3.94	34.51	27.43	75.3	1.702
773	4.63	34.45			27.30	86.1	1200	3.40	34.54	27.50	68.3	1.848
968	4.04	34.51			27.41	76.3						
1163	3.48	34.52			27.48	70.5						
1460	2.83	34.52			27.59	60.4						

CROMWELL 17, STATION 19, 20-30N LAT, 151- 3W LONG, JUNE 20, 1965, 1700 G.C.T.												
DRY BULB 23.2		WET BULB 20.6		WIND SPEED 24, DIR. 08		BAR. 19		WEATHER 02		VIS. 7 CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.52	34.57			23.48	441.8	0	23.52	34.57	23.48	441.8	0.000
10	23.65	34.57			23.44	445.8	10	23.65	34.57	23.44	445.8	0.045
30 ^Δ	23.65	34.57			23.44	446.5	20	23.67	34.57	23.43	446.8	0.090
50 ^Δ	23.65	34.58			23.45	446.6	30	23.65	34.57	23.44	446.5	0.135
52	23.65	34.58			23.45	446.6	50	23.65	34.58	23.45	446.6	0.225
78	22.38	34.87			24.03	391.8	75	22.57	34.83	23.95	400.0	0.331
102	21.80	35.01			24.30	367.0	100	21.84	35.00	24.28	368.6	0.428
127	21.21	35.13			24.55	343.7	150	20.27	35.13	24.81	320.1	0.602
154	20.07	35.12			24.85	316.1	200	17.13	34.71	25.28	276.1	0.752
178	18.70	34.95			25.08	295.3	250	13.59	34.29	25.75	232.4	0.880
204	16.83	34.67			25.32	272.7	300	10.72	34.18	26.20	188.9	0.986
229	15.05	34.45			25.56	250.4	400	8.73	34.31	26.64	148.2	1.156
254	13.31	34.27			25.78	228.8	500	6.96	34.28	26.83	125.4	1.294
281	11.45	34.13			26.08	201.0	600	6.16	34.34	27.03	111.8	1.414
305	10.56	34.13			26.22	186.3	700	5.58	34.40	27.15	101.0	1.522
407	8.64	34.32			26.66	146.2	800	5.07	34.44	27.25	92.2	1.619
509	6.82	34.28			26.90	124.0	1000	4.36	34.51	27.38	80.8	1.794
611	6.11	34.35			27.05	110.6	1200	3.78	34.55	27.47	72.4	1.950
813	5.01	34.45			27.26	91.3	1500	3.09	34.57	27.56	64.5	2.158
1016	4.31	34.51			27.35	80.1						
1218	3.73	34.55			27.48	71.8						
1521	3.05	34.57			27.56	64.2						

CROMWELL 17, STATION 20, 19- 0N LAT, 151- 5W LONG, JUNE 21, 1965, 0200 G.C.T.												
DRY BULB 23.9		WET BULB 20.4		WIND SPEED 18, DIR. 08		BAR. 16		WEATHER 03		VIS. 7 CLOUD TYPE 5, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.04	34.54			23.30	458.5	0	24.04	34.54	23.30	458.5	0.000
10	24.03	34.54			23.31	459.6	10	24.03	34.54	23.31	458.6	0.046
50	23.13	34.60			23.61	430.7	20	23.88	34.54	23.35	455.0	0.092
76	22.39	34.75			23.97	397.8	30	23.68	34.55	23.41	449.2	0.138
100	21.78	34.95			24.26	370.8	50	23.13	34.60	23.61	430.7	0.226
126	21.20	35.16			24.58	341.3	75	22.42	34.78	23.95	399.1	0.331
151	19.95	35.16			24.92	310.1	100	21.78	34.95	24.26	370.8	0.428
176	18.74	34.98			25.09	294.1	150	20.01	35.16	24.90	311.2	0.600
200	17.24	34.75			25.28	276.1	200	17.24	34.75	25.28	276.1	0.748
226	14.80	34.44			25.60	245.8	250	12.96	34.23	25.82	225.0	0.874
251	12.89	34.22			25.83	224.2	300	10.30	34.16	26.26	183.0	0.977
276	11.18	34.13			26.09	199.8	400	8.24	34.37	26.76	136.3	1.138
301	10.27	34.16			26.27	182.4	500	6.78	34.37	26.97	116.7	1.266
400	8.24	34.37			26.76	136.3	600	5.91	34.43	27.13	102.0	1.376
501	6.77	34.37			26.98	116.6	700	5.41	34.47	27.23	93.9	1.475
602	5.90	34.43			27.14	101.7	800	5.07	34.49	27.28	88.9	1.567
802	5.06	34.49			27.25	88.8	1000	4.31	34.53	27.40	78.5	1.737
1003	4.36	34.53			27.40	78.4	1200	3.62	34.56	27.50	69.6	1.887
1203	3.61	34.56			27.50	69.4	1500	2.89	34.61	27.60	59.3	2.083
1506	2.88	34.61			27.61	59.1						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 17, STATION 21, 17-29N LAT, 151- CW LCNG, JUNE 21, 1965, 1200 G.C.T.												
DRY BULB 23.9		WET BULB 21.0		WIND SPEED 18, DIR. 07		BAR. 17		WEATHER 03		VIS. 6 CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.39	34.52			23.18	469.9	0	24.39	34.52	23.18	469.9	0.000
10	24.39	34.53			23.19	469.5	10	24.39	34.53	23.19	469.5	0.047
50	23.83	34.55			23.37	453.8	20	24.36	34.51	23.18	470.8	0.095
76	22.71	34.92			23.98	397.1	30	24.25	34.50	23.21	468.6	0.142
100	21.84	35.13			24.38	359.4	50	23.83	34.55	23.37	453.8	0.235
126	20.35	35.01			24.70	330.2	75	22.76	34.90	23.95	399.4	0.342
151	19.23	34.97			24.96	305.9	100	21.84	35.13	24.38	359.4	0.438
175	17.67	34.77			25.20	283.8	150	19.28	34.97	24.95	306.8	0.606
201	14.48	34.37			25.62	243.6	200	14.61	34.38	25.60	245.1	0.745
225	12.33	34.22			25.94	212.9	250	11.08	34.15	26.12	195.8	0.856
251	11.04	34.15			26.13	195.3	300	9.63	34.21	26.42	168.0	0.948
276	10.01	34.14			26.30	179.0	400	7.94	34.33	26.78	134.7	1.101
300	9.63	34.21			26.42	168.0	500	6.51	34.34	26.99	115.2	1.227
400	7.94	34.33			26.78	134.7	600	6.09	34.43	27.11	104.2	1.338
501	6.50	34.34			26.99	115.1	700	5.48	34.47	27.22	94.5	1.438
600	6.09	34.43			27.11	104.2	800	4.88	34.49	27.31	86.5	1.529
800	4.88	34.49			27.31	86.5	1000	4.20	34.53	27.41	77.0	1.695
994	4.22	34.53			27.41	77.3	1200	3.55	34.56	27.51	68.5	1.842
1186	3.59	34.56			27.50	69.1	1500	2.84	34.61	27.61	58.3	2.035
1480	2.88	34.61			27.61	58.9	2000	2.07	34.66	27.72	48.2	2.306
2015	2.05	34.66			27.72	48.0	2500	1.78	34.67	27.75	45.8	2.545
2516	1.78	34.67			27.75	45.8	3000	1.64	34.70	27.78	43.5	2.773
3017	1.64	34.70			27.78	43.4	4000	1.44	34.71	27.80	42.6	3.214
4023	1.44	34.71			27.80	42.6						

CROMWELL 17, STATION 22, 16- ON LAT, 150-53W LONG, JUNE 21, 1965, 2200 G.C.T.												
DRY BULB 24.7		WET BULB 21.9		WIND SPEED 15, DIR. 09		BAR. 16		WEATHER 02		VIS. 7 CLOUD TYPE 4, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.95**	34.57			23.05	482.3	0	24.95	34.57	23.05	482.3	0.000
9	24.93	34.56			23.05	482.8	10	24.93	34.56	23.05	482.9	0.049
30 ^A	24.95	34.56			23.05	484.2	20	24.94	34.56	23.05	483.6	0.097
51	24.96	34.57			23.05	484.6	30	24.95	34.56	23.05	484.2	0.146
77	24.44	34.54			23.18	472.8	50	24.96	34.57	23.05	484.7	0.244
100	22.20	34.94			24.14	382.7	75	24.53	34.53	23.15	475.7	0.365
126	20.41	35.03			24.70	330.2	100	22.20	34.94	24.14	382.7	0.473
153	18.31	34.85			25.10	292.4	150	18.55	34.88	25.06	296.0	0.644
178	16.41	34.66			25.41	263.2	200	13.73	34.38	25.78	227.9	0.776
203	13.37	34.34			25.83	223.5	250	11.08	34.40	26.31	177.8	0.878
228	11.68	34.26			26.09	198.1	300	9.91	34.46	26.57	154.2	0.962
252	11.04	34.41			26.33	176.2	400	8.44	34.47	26.81	131.7	1.106
278	10.30	34.41			26.46	164.0	500	7.46	34.50	26.98	116.9	1.231
303	9.87	34.47			26.58	152.9	600	6.61	34.51	27.11	105.6	1.344
403	8.40	34.47			26.82	131.4	700	5.87	34.51	27.20	96.6	1.446
505	7.42	34.50			26.99	116.3	800	5.25	34.51	27.28	89.8	1.540
799	5.26	34.51			27.28	89.9	1000	4.40	34.53	27.39	79.7	1.712
1011	4.36	34.53			27.40	79.2	1200	3.68	34.58	27.50	69.0	1.862
1212	3.64	34.58			27.51	68.4	1500	2.89	34.60	27.60	60.0	2.059
1517	2.86	34.60			27.60	59.6						

CROMWELL 17, STATION 23, 14-30N LAT, 150-59W LONG, JUNE 22, 1965, 0700 G.C.T.												
DRY BULB 24.5		WET BULB 21.9		WIND SPEED 18, DIR. 07		BAR. 16		WEATHER 02		VIS. 7 CLOUD TYPE , COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.43	34.67			22.98	489.1	0	25.43	34.67	22.98	489.1	0.000
9	25.44	34.67			22.98	489.8	10	25.44	34.67	22.98	489.8	0.049
30 ^A	25.43	34.67			22.98	490.3	20	25.44	34.67	22.98	490.1	0.099
48	25.43	34.67			22.98	491.0	30	25.43	34.67	22.98	490.3	0.148
73	25.14	34.68			23.08	482.8	50	25.46	34.67	22.97	492.3	0.247
75 ^A	25.00	34.69			23.13	478.1	75	25.00	34.69	23.13	478.1	0.369
97	22.68	34.86			23.94	401.4	100	22.48	34.89	24.02	393.4	0.479
122	21.13	35.07			24.53	345.8	150	18.83	34.87	24.98	303.5	0.655
147	19.13	34.90			24.93	308.4	200	12.44	34.20	25.90	215.7	0.785
172	16.28	34.58			25.38	265.9	250	11.04	34.54	26.43	166.6	0.882
197	12.72	34.22			25.86	219.6	300	10.58	34.65	26.60	151.8	0.962
221	11.19	34.21			26.15	192.8	400	8.97	34.58	26.81	132.3	1.105
245	11.06	34.50			26.35	169.8	500	8.01	34.57	26.95	119.9	1.233
271	10.94	34.65			26.53	157.2	600	7.09	34.55	27.07	109.2	1.348
295	10.66	34.65			26.58	152.9	700	6.27	34.54	27.17	100.1	1.454
393	9.05	34.58			26.80	133.3	800	5.58	34.53	27.26	92.5	1.552
491	8.10	34.57			26.94	121.0	1000	4.66	34.55	27.38	81.3	1.727
787	5.65	34.53			27.25	93.4	1200	3.93	34.57	27.47	72.5	1.883
985	4.72	34.55			27.37	82.0						
1183	4.00	34.57			27.47	73.3						
1483	3.20	34.60			27.57	63.6						

ΔFROM BT DATA
 **EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 17, STATION 24, 13- IN LAT, 151- 2W LONG, JUNE 22, 1965, 1600 G.C.T.														
DRY BULB 25.0		WET BULB 21.8		WIND SPEED 17, DIR. 08		BAR. 14		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	25.92	34.77			22.91	496.4	0	25.92	34.77	22.91	496.4	0.000		
10	25.94	34.75			22.88	498.8	10	25.94	34.75	22.88	498.8	0.050		
30 ^Δ	25.93	34.76			22.90	498.6	20	25.94	34.75	22.89	499.1	0.100		
51	25.92	34.76			22.90	499.1	30	25.93	34.76	22.90	498.6	0.151		
77	25.33	34.64			22.99	491.4	50	25.93	34.76	22.90	499.2	0.251		
100 ^Δ	25.26	34.64			23.01	490.3	75	25.38	34.65	22.98	492.0	0.376		
102	25.25	34.64			23.01	490.0	100	25.26	34.64	23.01	490.3	0.500		
127	16.38	34.45			25.26	276.2	150	13.40	34.42	25.88	216.9	0.678		
153	13.24	34.42			25.91	213.8	200	11.22	34.51	26.37	171.0	0.776		
178	11.79	34.38			26.17	190.1	250	10.60	34.63	26.58	152.2	0.857		
203	11.18	34.53			26.40	168.7	300	10.21	34.66	26.67	144.8	0.932		
229	10.88	34.63			26.53	156.7	400	9.08	34.60	26.81	132.4	1.072		
254	10.55	34.63			26.59	151.6	500	7.70	34.54	26.98	117.1	1.198		
279	10.40	34.69			26.65	145.9	600	6.73	34.51	27.09	107.0	1.311		
304	10.17	34.65			26.67	144.7	700	5.89	34.50	27.20	97.5	1.414		
405	9.02	34.60			26.82	131.6	900	5.19	34.51	27.29	89.1	1.509		
507	7.61	34.54			26.99	116.1	1000	4.40	34.56	27.41	77.6	1.677		
607	6.67	34.51			27.10	106.4	1200	3.71	34.57	27.50	70.0	1.827		
810	5.13	34.51			27.29	88.3	1500	3.04	34.60	27.58	61.8	2.027		
1014	4.36	34.56			27.42	77.0								
1214	3.67	34.57			27.50	69.5								
1518	3.01	34.60			27.59	61.5								

CROMWELL 17, STATION 25, 11-28N LAT, 150-56W LONG, JUNE 23, 1965, 1600 G.C.T.													
DRY BULB 25.8		WET BULB 22.9		WIND SPEED 21, DIR. 06		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.46	34.77			22.74	512.5	0	26.46	34.77	22.74	512.5	0.000	
9	26.50	34.77			22.72	514.1	10	26.50	34.77	22.72	514.3	0.052	
49	26.53	34.75			22.70	518.1	20	26.52	34.75	22.71	516.4	0.104	
74	26.56	34.88			22.79	510.6	30	26.53	34.74	22.70	517.7	0.156	
98	20.46	34.62			24.37	360.2	50	26.59	34.76	22.69	519.4	0.260	
123	18.08	34.68			25.03	298.2	75	26.33	34.87	22.85	504.4	0.389	
148	13.71	34.35			25.76	228.0	100	20.23	34.63	24.44	354.0	0.497	
172	12.12	34.40			26.12	194.5	150	13.51	34.35	25.80	224.5	0.643	
197	11.51	34.58			26.37	170.8	200	11.37	34.59	26.41	167.9	0.742	
221	10.50	34.60			26.57	152.2	250	10.30	34.62	26.62	147.8	0.821	
246	10.34	34.62			26.62	148.5	300	9.82	34.64	26.72	139.6	0.894	
270	10.10	34.63			26.67	144.3	400	8.93	34.61	26.84	129.5	1.030	
295	9.87	34.64			26.71	140.2	500	8.09	34.58	26.95	120.5	1.156	
393	8.99	34.61			26.83	130.1	600	7.15	34.55	27.06	110.2	1.272	
493	8.16	34.58			26.94	121.2	700	6.30	34.54	27.17	100.4	1.379	
591	7.23	34.55			27.05	111.2	800	5.60	34.54	27.26	92.1	1.476	
789	5.66	34.54			27.25	92.8	1000	4.67	34.55	27.38	81.3	1.652	
974	4.79	34.55			27.36	82.8	1200	3.84	34.57	27.49	71.3	1.806	
1169	3.94	34.57			27.47	72.5	1500	3.09	34.61	27.58	61.9	2.009	
1459	3.18	34.60			27.57	63.2	2000	2.24	34.66	27.70	50.0	2.293	
1946	2.30	34.66			27.70	50.8	2500	1.88	34.68	27.75	46.2	2.538	
2438	1.91	34.60			27.74	46.5	3000	1.65	34.69	27.78	43.9	2.768	
2936	1.71	34.69			27.77	44.8							
3944	1.45	34.71			27.80	42.5							

CROMWELL 17, STATION 26, 9-59N LAT, 148- 1W LONG, JUNE 24, 1965, 1400 G.C.T.													
DRY BULB 25.4		WET BULB 23.6		WIND SPEED 20, DIR. 05		BAR. 13		WEATHER 00		VIS. 7		CLOUD TYPE 1, COVER 3	
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	26.36	34.71	4.89		22.72	513.8	0	26.36	34.71	22.72	513.8	0.000	
10	26.51	34.72	5.15	0.27	22.68	518.0	10	26.51	34.72	22.68	518.0	0.052	
51	26.53	34.92	5.11	0.31	22.83	505.9	20	26.56	34.77	22.70	516.5	0.104	
75	26.50	34.92	4.86	0.23	22.84	506.0	30	26.59	34.82	22.73	514.1	0.156	
99	26.18	34.93	4.77	0.31	22.95	496.6	50	26.54	34.92	22.82	506.4	0.259	
125	13.98	34.42	2.00	1.31	25.76	227.6	75	26.50	34.92	22.84	506.0	0.386	
151	11.86	34.67	0.51	2.53	26.38	169.4	100	25.73	34.91	23.07	484.8	0.511	
175	11.42	34.73	0.30	2.53	26.51	157.6	150	11.83	34.66	26.37	170.0	0.676	
201	11.09	34.76	0.41	2.40	26.59	150.2	200	11.10	34.76	26.59	150.4	0.757	
225	10.63	34.74	0.40	2.15	26.66	144.2	250	10.38	34.73	26.70	141.2	0.830	
251	10.37	34.73	0.47	2.51	26.70	141.1	300	9.93	34.70	26.75	136.8	0.900	
277	10.09	34.72	0.35	2.10	26.74	137.6	400	9.11	34.67	26.86	127.7	1.034	
301	9.92	34.70	0.40	2.58	26.75	136.8	500	8.24	34.62	26.96	119.5	1.159	
401	9.10	34.67	0.57	2.53	26.86	127.6	600	7.04	34.57	27.10	107.1	1.273	
502	8.22	34.62	0.31	2.95	26.96	119.4	700	6.17	34.55	27.20	97.7	1.377	
602	7.02	34.57	0.42	3.55	27.10	106.9	800	5.51	34.55	27.28	90.2	1.472	
803	5.49	34.55	0.65	3.24	27.28	90.0	1000	4.49	34.57	27.41	77.8	1.642	
996	4.51	34.57	1.11	3.08	27.41	78.0	1200	3.71	34.59	27.51	68.4	1.790	
1189	3.76	34.59	1.34	2.15	27.51	68.9							
1483	2.96	34.62	1.72	2.40	27.61	59.2							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.14

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL		17, STATION		27, 11-30N LAT, 147-59N LONG, JUN 25, 1965, C2C0 G.C.T.										
DRY BULB	26.0	WET BULB	22.0	WIND SPEED	20, DIR.	04	BAR.	15	WEATHER	03	VIS.	8	CLCUD TYPE	8, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	26.54	34.87	4.90		22.78	507.7	0	26.54	34.87	22.79	507.7	0.000		
10	26.55	34.87	5.26	0.47	22.78	508.4	10	26.55	34.87	22.78	508.4	0.051		
51	26.46	34.88		0.31	22.82	506.7	20	26.53	34.87	22.79	508.2	0.102		
76	26.44	34.87	4.88	0.59	22.82	507.8	30	26.51	34.88	22.80	507.8	0.154		
100	26.09	34.90	4.85	0.81	22.95	496.1	50	26.46	34.88	22.82	506.7	0.256		
125	20.22	34.77	4.53	0.44	24.55	344.2	75	26.44	34.87	22.82	507.9	0.384		
151	14.30	34.42	1.90	1.87	25.69	234.8	100	26.09	34.90	22.95	496.1	0.510		
175	12.10	34.57	0.67	2.68	26.24	181.7	150	14.49	34.43	25.66	238.0	0.695		
201	11.29	34.64	0.37	3.01	26.46	162.5	200	11.30	34.64	26.46	162.8	0.796		
225	11.03	34.69	0.24	2.24	26.55	154.8	250	10.41	34.67	26.64	146.1	0.874		
250	10.41	34.67	0.19	2.66	26.64	146.1	300	9.86	34.67	26.74	138.0	0.945		
276	10.05	34.66	0.17	2.73	26.70	141.4	400	8.87	34.63	26.87	126.9	1.079		
300	9.86	34.67	0.21	2.73	26.74	138.0	500	7.79	34.57	26.99	116.5	1.202		
399	8.88	34.63	0.38	2.68	26.87	127.0	600	6.81	34.56	27.10	106.0	1.314		
500	7.79	34.57	0.54	2.52	26.99	116.5	700	5.99	34.53	27.21	96.5	1.417		
600	6.81	34.54	0.52	3.07	27.10	106.0	800	5.32	34.54	27.29	88.5	1.510		
800	5.32	34.54	0.60	3.70	27.29	88.5	1000	4.47	34.56	27.41	78.3	1.679		
1001	4.47	34.56	1.14	3.13	27.41	78.3	1200	3.75	34.59	27.51	68.9	1.828		
1200	3.75	34.59	1.36	3.13	27.51	68.9	1500	2.93	34.62	27.61	58.9	2.023		
1501	2.93	34.62	1.90	2.92	27.61	58.9								

CROMWELL		17, STATION		20, 12-39N LAT, 147-57W LONG, JUNE 25, 1965, 12C0 G.C.T.										
DRY BULB	24.0	WET BULB	20.2	WIND SPEED	25, DIR.	06	BAR.	16	WEATHER	03	VIS.	7	CLCUD TYPE	8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.78	34.49	5.03		23.04	483.2	0	24.78	34.49	23.04	483.2	0.000		
8	24.81	34.49	5.31	0.26	23.04	484.4	10	24.81	34.49	23.03	484.6	0.049		
30	24.81	34.49			23.03	486.0	20	24.82	34.48	23.03	485.6	0.098		
48	24.81	34.50	5.26	0.26	23.04	485.2	30	24.81	34.48	23.03	486.0	0.147		
71	24.56	34.45	5.04	0.37	23.11	479.6	50	24.84	34.49	23.03	486.7	0.245		
94	21.74	34.79	5.12	0.31	24.15	381.0	75	24.14	34.54	23.27	464.1	0.364		
119	19.38	34.80	4.58	0.50	24.79	320.8	100	21.15	34.82	24.33	363.9	0.469		
143	16.87	34.62	4.17	0.75	25.27	275.3	150	15.75	34.54	25.47	256.6	0.625		
166	13.47	34.43	1.38	2.13	25.88	217.9	200	12.38	34.74	26.33	175.2	0.734		
190	12.65	34.71	0.11	2.27	26.26	182.2	250	11.38	34.74	26.52	157.9	0.818		
214	12.06	34.74	0.15	1.96	26.39	169.5	300	10.64	34.71	26.63	148.4	0.895		
238	11.57	34.74	0.11	1.90	26.49	161.1	400	9.25	34.63	26.81	132.7	1.037		
262	11.21	34.74	0.08	2.14	26.55	155.2	500	8.07	34.57	26.95	120.5	1.165		
285	10.86	34.72	0.08	2.23	26.60	151.0	600	7.11	34.55	27.07	109.3	1.281		
380	9.52	34.65	0.15	2.83	26.78	135.5	700	6.20	34.54	27.18	99.2	1.386		
477	8.31	34.58	0.31	2.83	26.92	123.2	800	5.46	34.53	27.27	91.0	1.482		
573	7.38	34.56	0.41	3.00	27.04	112.4	1000	4.55	34.55	27.39	79.7	1.655		
766	5.67	34.53	0.48	3.18	27.24	93.4	1200	3.84	34.58	27.49	71.0	1.808		
958	4.72	34.55	0.79	3.31	27.37	81.7								
1151	4.03	34.57	1.15	3.18	27.46	73.4								
1445	3.20	34.61	1.61	2.77	27.58	62.6								

TEMPERATURE ERROR TEMP AT 150. METERS IS 0.12

CROMWELL		17, STATION		29, 14-28N LAT, 147-57W LONG, JUNE 25, 1965, 22C0 G.C.T.										
DRY BULB	23.8	WET BULB	20.4	WIND SPEED	22, DIR.	06	BAR.	17	WEATHER	02	VIS.	7	CLCUD TYPE	1, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.63	34.63	5.00		23.19	468.8	0	24.63	34.63	23.19	468.8	0.000		
9	24.69	34.63	5.33	0.46	23.18	470.9	10	24.69	34.63	23.18	471.0	0.047		
51	24.68	34.64	5.06	0.56	23.19	471.5	20	24.71	34.63	23.17	471.7	0.095		
76	24.66	34.63	5.07	0.78	23.19	472.6	30	24.72	34.64	23.17	472.0	0.142		
99	21.98	34.87	5.18	0.29	24.14	381.8	50	24.68	34.64	23.19	471.6	0.237		
124	19.38	34.88	4.74	0.41	24.85	315.2	75	24.69	34.63	23.18	473.6	0.356		
150	16.89	34.60	3.84	0.90	25.25	277.4	100	21.87	34.88	24.18	378.6	0.464		
175	13.06	34.34	1.95	1.80	25.89	216.7	150	16.89	34.60	25.25	277.4	0.629		
199	11.71	34.49	0.94	2.49	26.27	181.0	200	11.68	34.50	26.28	180.0	0.744		
224	11.28	34.64	0.32	2.81	26.46	162.9	250	11.00	34.70	26.56	154.1	0.829		
250	11.00	34.70	0.21	3.15	26.56	154.1	300	10.25	34.68	26.68	143.8	0.904		
275	10.62	34.69	0.24	2.50	26.62	148.8	400	9.06	34.62	26.83	130.7	1.042		
299	10.26	34.68	0.20	2.20	26.68	143.9	500	7.97	34.56	26.95	119.9	1.169		
398	9.08	34.62	0.26	2.72	26.83	130.9	600	6.90	34.53	27.08	108.1	1.284		
499	7.98	34.56	0.34	2.88	26.95	120.1	700	6.11	34.51	27.18	99.6	1.389		
599	6.91	34.53	0.38	2.99	27.08	108.2	800	5.50	34.51	27.25	93.1	1.486		
799	5.51	34.51	0.51	2.68	27.25	93.2	1000	4.64	34.53	27.37	82.6	1.664		
999	4.64	34.53	0.78	2.71	27.37	82.6	1200	3.93	34.56	27.47	73.2	1.822		
1198	3.94	34.57	1.09	2.92	27.47	72.7	1500	3.18	34.60	27.57	63.4	2.030		
1500	3.18	34.60	1.54	2.88	27.57	63.4								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA							
CROMWELL 17, STATION 30, 16- ON LAT, 148- W LONG, JUNE 26, 1965, 0700 G.C.T.														
DRY BULB 23.7		WET BULB 20.2		WIND SPEED 23, DIR. 07			BAR. 16		WEATHER 00		VIS. 7		CLCUC TYPE 2, COVER 8	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.32	34.54	5.03		23.22	466.4	0	24.32	34.54	23.22	466.4	0.000		
9	24.49	34.54	5.28	0.21	23.17	471.6	10	24.49	34.54	23.17	471.6	0.047		
20 ^A	24.49	34.54			23.17	472.1	20	24.49	34.54	23.17	472.1	0.095		
52	24.52	34.53	5.03	0.25	23.15	474.9	30	24.50	34.54	23.16	473.0	0.142		
76	24.49	34.53	5.03	0.24	23.16	474.9	50	24.52	34.53	23.15	474.7	0.238		
101	24.32	34.52	5.06	0.25	23.20	471.8	75	24.49	34.53	23.16	475.0	0.357		
125	19.28	34.58	4.38	1.05	24.65	334.5	100	24.38	34.52	23.19	473.4	0.477		
151	15.49	34.46	3.76	1.01	25.47	256.8	150	15.60	34.47	25.45	258.7	0.661		
176	13.62	34.30	3.47	1.85	25.74	230.6	200	11.87	34.19	26.00	206.0	0.778		
200	11.87	34.19	3.47	1.47	26.00	206.0	250	9.96	34.22	26.37	171.8	0.874		
226	10.57	34.20	3.03	1.82	26.25	182.9	300	9.12	34.31	26.59	152.5	0.955		
251	9.94	34.22	2.36	2.00	26.37	171.4	400	8.18	34.43	26.82	130.9	1.098		
275	9.61	34.30	1.98	2.39	26.45	160.6	500	7.25	34.45	26.97	117.4	1.224		
300	9.12	34.31	1.74	2.45	26.58	152.5	600	6.35	34.45	27.09	106.2	1.337		
400	8.18	34.43	0.71	2.78	26.82	130.9	700	5.65	34.47	27.20	97.0	1.439		
502	7.23	34.45	0.61		26.97	117.2	800	5.11	34.49	27.28	89.5	1.534		
602	6.33	34.45	0.54		27.10	106.0	1000	4.36	34.53	27.40	79.1	1.704		
803	5.10	34.49	0.76		27.28	89.3	1200	3.73	34.56	27.49	70.9	1.956		
1003	4.35	34.53	0.97	3.20	27.40	79.0	1500	2.98	34.60	27.59	61.1	2.057		
1204	3.72	34.56	1.13	3.16	27.49	70.8								
1506	2.97	34.60	1.60	3.16	27.59	60.9								

CROMWELL 17, STATION 31, 17-30N LAT, 148- W LONG, JUNE 26, 1965, 1600 G.C.T.														
DRY BULB 23.5		WET BULB 19.7		WIND SPEED 23, DIR. 05			BAR. 16		WEATHER		VIS. 7		CLCUC TYPE 9, COVER 5	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.53	34.59	5.06		23.19	468.8	0	24.53	34.59	23.19	468.8	0.000		
9	24.52	34.59	5.19	0.26	23.20	468.9	10	24.52	34.59	23.20	468.9	0.047		
49	24.53	34.57	5.04	0.24	23.15	470.7	20	24.52	34.59	23.20	469.3	0.094		
75	24.54	34.60	4.99	0.49	23.20	471.3	30	24.52	34.59	23.20	469.6	0.142		
99	23.32	34.84	5.25	0.21	23.74	420.5	50	24.54	34.59	23.19	471.3	0.237		
123	22.21	34.94	5.20	0.34	24.13	383.8	75	24.54	34.60	23.20	471.3	0.355		
150	21.27	35.07	5.03	0.22	24.49	350.5	100	23.27	34.85	23.76	418.9	0.467		
174	19.86	35.01	4.69	0.67	24.83	319.5	150	21.27	35.07	24.49	350.5	0.661		
198	17.98	34.79	4.70	0.94	25.14	290.4	200	17.77	34.76	25.17	287.4	0.822		
222	15.34	34.47	4.01	0.83	25.51	254.9	250	12.69	34.24	25.88	218.9	0.950		
247	12.89	34.25	3.52	1.32	25.85	221.9	300	9.90	34.18	26.35	174.4	1.049		
273	11.37	34.20	3.36	1.88	26.11	198.0	400	7.66	34.18	26.70	141.0	1.209		
297	10.07	34.18	3.02	1.80	26.23	176.6	500	7.01	34.33	26.91	122.0	1.342		
395	7.71	34.17	2.04	2.16	26.65	143.1	600	6.23	34.41	27.09	107.4	1.458		
496	7.04	34.33	0.83	2.89	26.91	123.2	700	5.53	34.46	27.21	95.8	1.561		
595	6.27	34.41	0.47	3.22	27.07	108.7	800	4.95	34.49	27.30	87.3	1.654		
794	4.98	34.45	0.82	3.22	27.30	87.7	1000	4.22	34.52	27.40	78.0	1.821		
994	4.24	34.52	1.03	3.04	27.40	78.3	1200	3.59	34.56	27.50	69.5	1.970		
1194	3.61	34.56	1.24	3.22	27.50	69.4								
1497	2.86	34.60	1.65	2.93	27.60	59.5								

CROMWELL 17, STATION 32, 19- 2N LAT, 147-59W LONG, JUNE 27, 1965, 0100 G.C.T.														
DRY BULB 22.4		WET BULB 21.0		WIND SPEED 25, DIR. 11			BAR. 17		WEATHER 15		VIS. 7		CLCUC TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.61	34.53	5.07		23.13	475.4	0	24.61	34.53	23.13	475.4	0.000		
9	24.63	34.52	5.26	0.23	23.11	477.1	10	24.63	34.52	23.11	477.2	0.048		
30 ^A	24.62	34.52			23.11	477.6	20	24.63	34.52	23.11	477.7	0.096		
51	24.58	34.52	5.31	0.24	23.13	477.3	30	24.62	34.52	23.11	477.6	0.144		
76	22.59	34.68	5.39	0.23	23.83	411.1	50	24.60	34.52	23.12	477.9	0.240		
101	22.08	34.96	5.26	0.18	24.19	378.1	75	22.68	34.67	23.80	414.1	0.353		
125	21.58	35.17	5.15	0.18	24.43	355.6	100	22.09	34.95	24.17	379.0	0.453		
152	20.19	35.06	4.91	0.37	24.78	323.4	150	20.30	35.07	24.75	325.7	0.630		
177	19.08	34.99	4.74	0.38	24.99	304.5	200	17.72	34.79	25.20	284.5	0.784		
203	17.49	34.76	4.62	0.49	25.23	281.2	250	12.77	34.21	25.94	222.9	0.912		
227	16.77	34.42	4.33	0.78	25.59	248.7	300	10.21	34.16	26.28	181.2	1.014		
253	12.56	34.19	3.52	1.34	25.87	220.1	400	7.62	34.21	26.73	139.2	1.175		
279	11.28	34.17	4.33	1.08	26.10	198.7	500	6.87	34.35	26.95	119.3	1.306		
303	10.06	34.16	3.30	1.34	26.31	178.9	600	6.13	34.41	27.09	106.4	1.420		
404	7.58	34.21	1.66	2.74	26.74	138.4	700	5.49	34.45	27.20	96.4	1.522		
506	6.85	34.36	0.67	3.01	26.96	118.5	800	4.95	34.48	27.29	88.4	1.616		
607	6.08	34.41	0.51	3.09	27.10	105.7	1000	4.15	34.53	27.42	78.4	1.783		
809	4.91	34.43	0.72	3.14	27.30	87.7	1200	3.52	34.56	27.51	68.6	1.930		
1011	4.11	34.53	0.96	3.18	27.42	76.1	1500	2.82	34.59	27.60	59.8	2.125		
1213	3.48	34.56	1.22	3.16	27.51	67.9								
1517	2.79	34.59	1.55	2.91	27.60	59.5								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 17, STATION 33, 20-31N LAT, 147-58W LONG, JUNE 27, 1965, 1800 G.C.T.														
DRY BULB 23.1			WET BULB 20.3		WIND SPEED 22, DIR. 10		BAR. 21		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	24.04	34.60	5.04		23.35	454.2	0	24.04	34.60	23.35	454.2	0.000		
9	24.03	34.60	5.15	0.37	23.35	454.2	10	24.03	34.60	23.35	454.3	0.046		
30 ^Δ	24.03	34.60			23.35	455.0	20	24.03	34.60	23.35	454.6	0.092		
47	24.03	34.60	5.01	0.23	23.35	455.7	30	24.03	34.60	23.35	455.0	0.137		
50 ^Δ	24.03	34.60			23.35	455.8	50	24.03	34.60	23.35	455.8	0.229		
72	22.62	34.70	5.30	0.21	23.84	410.3	75	22.60	34.71	23.85	409.2	0.338		
75 ^Δ	22.60	34.71			23.85	409.2	100	22.09	34.87	24.12	384.5	0.438		
96	22.22	34.85	5.27	0.36	24.06	389.6	150	20.06	34.92	24.70	330.4	0.618		
119	21.37	34.95	5.21	0.23	24.37	360.6	200	17.88	34.84	25.20	284.1	0.773		
143	20.50	34.94	5.44	0.27	24.60	339.7	250	13.60	34.26	25.72	235.2	0.904		
167	19.06	34.88	4.75	0.40	24.93	308.8	300	10.74	34.13	26.17	192.5	1.012		
191	18.52	34.95	4.75	0.34	25.12	291.4	400	7.78	34.12	26.63	148.1	1.184		
214	16.65	34.63	4.41	0.64	25.33	271.8	500	6.28	34.20	26.90	122.8	1.320		
239	14.42	34.34	4.18	0.85	25.61	245.6	600	5.52	34.31	27.09	105.7	1.436		
262	12.80	34.20	4.19	1.02	25.83	224.2	700	5.11	34.42	27.22	93.8	1.536		
285	11.43	34.15	3.95	1.36	26.08	203.0	800	4.89	34.49	27.31	86.6	1.628		
380	8.22	34.11	2.88	2.10	26.56	154.8	1000	4.19	34.52	27.41	77.6	1.794		
478	6.50	34.17	1.57	2.64	26.85	127.3	1200	3.59	34.56	27.50	69.4	1.943		
764	5.03	34.48	0.78	3.22	27.28	88.7								
957	4.33	34.51	1.10	2.56	27.38	79.8								
1149	3.73	34.56	1.26	3.13	27.49	70.5								
1441	3.01	34.58	1.47	2.90	27.57	62.4								
TEMPERATURE ERROR TERM AT 600. METERS IS 0.19														
TEMPERATURE ERROR TERM AT 700. METERS IS 0.14														

CROMWELL 17, STATION 34, 22-1N LAT, 148-0W LONG, JUNE 28, 1965, 0200 G.C.T.														
DRY BULB 23.3			WET BULB 19.5		WIND SPEED 23, DIR. 09		BAR. 21		WEATHER 21		VIS. 7		CLOUD TYPE 9, COVER 7	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	23.43	34.62	5.28		23.54	435.6	0	23.43	34.62	23.54	435.6	0.000		
8	23.73	34.62	5.38	0.41	23.45	444.3	10	23.73	34.62	23.45	444.4	0.044		
20 ^Δ	23.60	34.62			23.49	441.1	20	23.60	34.62	23.49	441.1	0.089		
47	23.32	34.61	5.34	0.23	23.57	435.1	30	23.50	34.61	23.52	439.2	0.133		
71	23.07	34.68	5.34	0.22	23.69	424.1	50	23.31	34.61	23.57	434.8	0.221		
93	22.22	34.92	5.28	0.24	24.10	386.1	75	22.94	34.72	23.76	417.6	0.329		
117	21.73	35.06	5.18	0.19	24.36	362.1	100	22.10	34.97	24.19	377.9	0.429		
142	21.13	35.13	5.04	0.26	24.58	342.2	150	20.85	35.12	24.65	335.9	0.609		
165	20.29	35.09	4.90	0.31	24.77	324.2	200	18.90	34.98	25.05	298.5	0.769		
189	19.41	35.04	4.80	0.34	24.97	306.6	250	16.22	34.62	25.42	264.2	0.910		
211	18.33	34.91	4.78	0.39	25.14	290.4	300	11.91	34.15	25.97	211.9	1.030		
235	16.99	34.73	4.68	0.52	25.33	272.9	400	8.66	34.15	26.53	159.1	1.218		
259	15.64	34.54	4.64	0.59	25.49	257.4	500	7.05	34.22	26.82	131.9	1.365		
281	13.24	34.26	4.42	1.00	25.79	228.8	600	5.49	34.18	26.99	114.8	1.489		
376	9.14	34.12	3.66	1.88	26.43	168.3	700	5.03	34.31	27.15	100.7	1.598		
470	7.68	34.24	1.77	2.64	26.75	138.7	800	4.88	34.43	27.26	91.0	1.695		
565	5.79	34.15	1.24		26.93	120.6	1000	4.27	34.49	27.38	80.6	1.869		
754	5.02	34.40	0.86	3.09	27.22	94.4	1200	3.68	34.54	27.48	71.7	2.023		
944	4.46	34.48	0.65	3.18	27.35	83.5								
1134	3.82	34.57	1.08	3.13	27.44	74.4								
1423	3.10	34.57	1.42	3.04	27.55	64.1								
TEMPERATURE ERROR TERM AT 300. METERS IS 0.20														
TEMPERATURE ERROR TERM AT 700. METERS IS 0.13														

CROMWELL 17, STATION 35, 23-30N LAT, 148-0W LONG, JUNE 28, 1965, 1100 G.C.T.														
DRY BULB 22.9			WET BULB 19.5		WIND SPEED 18, DIR. 08		BAR. 24		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 6	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0	23.83	34.65	5.08		23.45	444.6	0	23.83	34.65	23.45	444.6	0.000		
7	23.87	34.64	5.18	0.20	23.43	446.8	10	23.87	34.64	23.43	446.9	0.045		
20 ^Δ	23.85	34.65			23.44	446.0	20	23.85	34.65	23.44	446.0	0.090		
42	23.76	34.68	5.10	0.28	23.49	442.1	30	23.87	34.65	23.44	447.0	0.135		
64	22.83	34.96	5.25	0.26	23.97	397.0	50	23.47	34.78	23.65	427.2	0.223		
83	22.08	35.06	5.22	0.13	24.26	370.2	75	22.38	35.03	24.15	380.4	0.325		
105	21.47	35.17	5.02	0.16	24.51	346.9	100	21.59	35.15	24.46	351.4	0.417		
126	21.00	35.19	4.92	0.19	24.66	333.9	150	20.18	35.11	24.82	319.3	0.586		
148	20.27	35.12	4.74	0.26	24.80	321.0	200	17.91	34.84	25.19	285.0	0.738		
168	19.35	35.03	4.62	0.37	24.97	305.1	250	14.86	34.48	25.62	244.9	0.872		
188	18.54	34.92	4.50		25.10	294.0	300	12.14	34.21	25.97	211.7	0.987		
209	17.39	34.78	4.50	0.48	25.27	277.7	400	8.62	34.06	26.46	165.2	1.177		
230	16.15	34.64	4.70	0.48	25.46	260.4	500	6.75	34.09	26.76	136.8	1.329		
250	14.86	34.48	4.76	0.99	25.62	244.9	600	5.52	34.17	26.98	116.1	1.457		
331	10.78	34.12	4.70	0.96	26.15	194.7	700	4.85	34.27	27.14	101.4	1.567		
414	8.29	34.06	3.68	1.84	26.51	160.1	800	4.55	34.37	27.25	91.4	1.664		
496	6.81	34.03	2.10	2.49	26.75	137.7	1000	4.06	34.50	27.40	77.8	1.836		
663	5.02	34.23	0.72	3.00	27.08	106.0	1200	3.55	34.56	27.50	68.8	1.984		
832	4.51	34.40	0.70	2.77	27.28	88.9								
1007	4.04	34.50	0.97	2.93	27.41	77.4								
1284	3.36	34.56	1.30	2.72	27.52	67.0								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA							DERIVED DATA			INTERPOLATED DATA			
CROMWELL 17, STATION 36, 25- IN LAT, 147-56W LCNG, JUNE 28, 1965, 2100 G.C.T.		DRY BULB 23.2		WET BULB 18.4	WIND SPEED 23, DIR. 09	BAR. 25	WEATHER 01	VIS. 7	CLOUD TYPE 4, COVER 7				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.78	34.66	5.22		23.47	442.5	0	23.78	34.66	23.47	442.5	0.000	
9	23.80	34.66	5.40	0.22	23.46	443.4	10	23.80	34.66	23.46	443.5	0.045	
30 ^Δ	23.81	34.66			23.46	444.5	20	23.81	34.66	23.46	444.1	0.089	
51	23.82	34.66	5.17	0.21	23.46	445.6	30	23.81	34.66	23.46	444.5	0.134	
76	22.52	34.99	5.34	0.17	24.08	386.9	50	23.83	34.66	23.45	446.1	0.224	
99	21.55	35.15	5.28	0.19	24.48	350.2	75	22.58	34.97	24.05	389.6	0.329	
126	20.63	35.09	4.93	0.25	24.66	331.5	100	21.51	35.15	24.49	349.3	0.422	
152	19.89	35.12	4.75	0.30	24.90	311.5	150	19.96	35.12	24.88	313.1	0.589	
176	18.50	34.95	4.88	0.35	25.13	290.4	200	16.97	34.69	25.30	274.2	0.737	
202	16.84	34.67	4.44	0.68	25.32	272.8	250	13.79	34.37	25.76	231.3	0.864	
227	15.16	34.51	4.89	0.50	25.58	248.3	300	11.94	34.23	26.03	206.5	0.975	
253	13.64	34.35	4.97	0.64	25.78	229.4	400	9.39	34.10	26.37	174.1	1.167	
277	12.79	34.29	5.02	0.75	25.90	217.8	500	6.96	34.00	26.66	146.5	1.329	
302	11.87	34.23	5.10	0.88	26.04	205.5	600	5.50	34.06	26.89	124.2	1.465	
402	9.35	34.10	4.80	1.06	26.38	173.6	700	4.74	34.17	27.07	107.5	1.582	
503	6.90	34.00	3.09	2.19	26.67	145.7	800	4.35	34.29	27.21	94.5	1.685	
603	5.47	34.06	1.63	2.70	26.50	123.6	1000	3.80	34.46	27.40	77.7	1.859	
805	4.34	34.30	0.51	2.57	27.22	94.0	1200	3.37	34.52	27.49	69.6	2.008	
1006	3.79	34.46	0.92	3.16	27.40	77.4	1500	2.82	34.57	27.58	61.2	2.207	
1207	3.36	34.52	1.23	3.16	27.49	69.4							
1511	2.80	34.57	1.62	3.39	27.56	61.1							

CROMWELL 17, STATION 37, 26-26N LAT, 148- 6W LCNG, JUNE 29, 1965, C400 G.C.T.		DRY BULB 23.5		WET BULB 19.2	WIND SPEED 18, DIR. 07	BAR. 16	WEATHER 02	VIS. 8	CLOUD TYPE 5, COVER 3			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.12	34.89	5.19		23.84	407.6	0	23.12	34.89	23.84	407.6	0.000
10	23.35	34.89	5.32	0.75	23.77	414.3	10	23.35	34.89	23.77	414.3	0.041
48	22.68	35.04	5.32	0.78	24.08	386.5	20	23.37	34.91	23.78	413.6	0.083
72	21.41	35.18	5.40	0.15	24.54	343.3	30	23.25	34.95	23.84	408.2	0.124
95	20.59	35.18	5.13	0.14	24.76	322.9	50	22.58	35.05	24.12	382.9	0.204
118	19.98	35.17	5.08	0.16	24.92	308.9	75	21.29	35.18	24.58	339.9	0.295
143	19.09	35.06	4.81	0.25	25.06	295.7	100	20.46	35.18	24.80	319.5	0.378
167	17.96	34.90	4.83	0.37	25.22	280.9	150	18.77	35.02	25.11	291.1	0.532
190	16.99	34.75	4.83	0.37	25.34	270.1	200	16.51	34.68	25.40	264.8	0.672
214	15.68	34.56	4.83	0.50	25.50	255.5	250	12.79	34.22	25.85	222.7	0.795
238	13.64	34.30	4.85	0.76	25.74	232.7	300	11.41	34.24	26.13	196.2	0.901
262	12.15	34.17	4.86	0.90	25.94	214.1						
285	11.71	34.22	5.04	0.84	26.06	202.9						
300**	11.40**	34.24**			26.13	196.2						

CROMWELL 17, STATION 38, 24-56N LAT, 151- 5W LCNG, JUNE 30, 1965, C100 G.C.T.		DRY BULB 25.8		WET BULB 21.0	WIND SPEED 14, DIR. 07	BAR. 23	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 6			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	24.34	34.78			23.35	449.7	0	24.34	34.78	23.35	449.7	0.000
10	24.36	34.78			23.39	450.7	10	24.36	34.78	23.39	450.7	0.045
30 ^Δ	24.35	34.78			23.39	451.1	20	24.50	34.76	23.33	456.6	0.091
49	22.31	35.12			24.24	370.8	30	24.35	34.78	23.39	451.1	0.137
74	20.96	35.20			24.68	330.2	50	22.23	35.13	24.27	368.2	0.219
98	20.31	35.17			24.83	316.6	75	20.93	35.20	24.68	329.4	0.307
121	19.60	35.14			24.95	301.7	100	20.25	35.17	24.84	315.3	0.388
146	18.71	35.05			25.15	287.2	150	18.59	35.03	25.17	285.9	0.540
170	17.83	34.90			25.26	278.0	200	15.80	34.61	25.51	254.1	0.676
195	16.13	34.65			25.47	258.2	250	12.78	34.32	25.93	215.0	0.794
218	14.63	34.48			25.67	239.1	300	11.42	34.26	26.14	195.4	0.898
242	13.11	34.34			25.88	219.4	400	8.83	34.10	26.46	165.1	1.080
267	12.26	34.29			26.01	207.5	500	6.89	34.03	26.69	143.5	1.235
291	11.67	34.27			26.10	198.7	600	5.46	34.08	26.91	121.9	1.369
386	9.14	34.17			26.43	168.4	700	4.70	34.20	27.10	104.8	1.484
483	7.20	34.03			26.65	147.5	800	4.33	34.33	27.24	91.7	1.583
581	5.65	34.06			26.86	125.6	1000	3.89	34.49	27.41	76.6	1.754
773	4.42	34.30			27.21	94.6	1200	3.49	34.55	27.50	68.9	1.901
969	3.95	34.47			27.35	78.2	1500	2.86	34.59	27.59	60.6	2.098
1163	3.57	34.54			27.49	70.1	2000	2.13	34.64	27.70	50.2	2.379
1457	2.94	34.58			27.58	61.7	2500	1.82	34.68	27.75	45.4	2.623
1971	2.16	34.64			27.69	50.6	3000	1.63	34.68	27.77	44.6	2.853
2471	1.83	34.68			27.75	45.6	4000	1.47	34.70	27.79	43.7	3.305
2970	1.64	34.68			27.76	44.7						
3971	1.49	34.71			27.80	43.2						
4976	1.51	34.71			27.80	46.2						

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 17, STATION 39, 25-3N LAT, 154-1W LONG, JUNE 30, 1965, 2100 G.C.T.													
DRY BULB	24.6	WET BULB	20.5	WIND SPEED	12, DIR. 08	BAR.	24	WEATHER	02	VIS.	8	CLOUD TYPE R,	COVER 3
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.	
0	24.23	34.99	4.94		23.59	431.4	0	24.23	34.99	23.59	431.4	0.000	
10	24.22	34.98	5.07	0.19	23.58	432.3	10	24.22	34.98	23.58	432.3	0.043	
30 ^d	24.20	34.99			23.60	431.7	20	24.31	34.97	23.55	435.4	0.087	
51	22.54	35.13	5.36	0.29	24.18	376.4	30	24.20	34.99	23.60	431.7	0.131	
77	21.29	35.17	5.23	0.23	24.56	341.1	50	22.63	35.12	24.15	379.3	0.213	
101	20.34	35.15	4.90	0.20	24.80	318.9	75	21.37	35.17	24.54	343.0	0.304	
127	19.70	35.11	5.02	0.49	24.94	306.6	100	20.37	35.15	24.80	319.6	0.387	
153	18.56	34.96	4.96	0.40	25.12	290.4	150	18.69	34.98	25.10	292.2	0.541	
178	17.96	34.91	4.67	0.44	25.23	280.5	200	16.71	34.72	25.39	266.3	0.682	
203	16.52	34.69	4.83	0.44	25.41	264.2	250	13.95	34.41	25.76	231.1	0.807	
228	15.16	34.52	4.77	0.89	25.59	247.6	300	12.28	34.29	26.00	208.7	0.918	
253	13.80	34.40	4.92	1.51	25.78	229.0	400	9.61	34.12	26.36	175.9	1.112	
279	12.95	34.35	5.00	1.27	25.92	216.6	500	7.36	34.02	26.62	150.5	1.277	
304	12.16	34.28	4.88	0.98	26.02	207.3	600	5.77	34.07	26.87	126.4	1.417	
405	9.49	34.12	4.71	1.50	26.37	174.5	700	4.83	34.17	27.06	108.7	1.536	
507	7.22	34.02	3.56	2.05	26.64	148.8	800	4.30	34.27	27.20	95.5	1.639	
607	5.6 ^h	34.08	1.52	2.87	26.89	124.8	1000	3.78	34.45	27.40	77.7	1.814	
807	4.28	34.2 ^h	0.54	3.28	27.21	94.8	1200	3.34	34.52	27.49	69.2	1.963	
1011	3.76	34.46	0.96	3.33	27.40	77.1	1500	2.74	34.57	27.59	60.2	2.160	
1212	3.31	34.52	1.29	3.17	27.50	68.9							
1516	2.71	34.57	1.65	3.17	27.59	60.0							

CROMWELL 17, STATION 40, 25-1N LAT, 157-1W LONG, JULY 1, 1965, 1400 G.C.T.													
DRY BULB	22.3	WET BULB	20.5	WIND SPEED	16, DIR. 07	BAR.	22	WEATHER	60	VIS.	7	CLOUD TYPE R,	COVER 4
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.	
0	24.84	34.83			23.28	460.4	0	24.84	34.83	23.28	460.4	0.000	
10	25.06	34.94			23.22	466.5	10	25.06	34.84	23.22	466.5	0.047	
51	22.95	34.92			23.91	402.7	20	24.78	34.84	23.30	459.1	0.093	
76	21.49	35.18			24.52	345.6	30	24.36	34.85	23.44	446.4	0.139	
100	20.90	35.16			24.66	332.5	50	23.03	34.92	23.88	405.3	0.225	
126	20.09	35.12			24.85	315.6	75	21.54	35.17	24.49	347.6	0.320	
151	18.85	34.98			25.06	295.9	100	20.90	35.16	24.66	332.5	0.405	
176	17.77	34.87			25.22	281.4	150	18.90	34.99	25.05	296.6	0.564	
201	15.20	34.50			25.56	249.2	200	15.30	34.51	25.55	250.4	0.702	
226	13.99	34.39			25.74	232.8	250	12.65	34.26	25.91	216.3	0.819	
251	12.60	34.26			25.92	215.7	300	11.44	34.20	26.09	199.8	0.924	
276	11.99	34.23			26.01	207.1	400	8.55	34.07	26.48	163.1	1.107	
301	11.42	34.20			26.10	199.5	500	6.21	34.03	26.78	134.1	1.257	
401	8.52	34.07			26.49	162.7	600	5.11	34.12	26.99	114.5	1.383	
503	6.15	34.03			26.79	133.4	700	4.53	34.24	27.15	99.6	1.491	
803	4.45	34.37			27.28	88.6	800	4.44	34.39	27.27	88.9	1.586	
1004	3.94	34.48			27.41	76.9	1000	3.95	34.49	27.41	77.1	1.754	
1205	3.44	34.52			27.48	70.4	1200	3.45	34.52	27.48	70.5	1.904	
1509	2.79	34.54			27.56	63.2	1500	2.81	34.54	27.56	63.3	2.107	

TEMPERATURE ERROR TEMP AT 20. METERS IS 0.14
 TEMPERATURE ERROR TEMP AT 30. METERS IS 0.19
 TEMPERATURE ERROR TEMP AT 600. METERS IS 0.25
 TEMPERATURE ERROR TEMP AT 700. METERS IS 0.25

CROMWELL 17, STATION 41, 23-28N LAT, 156-58W LONG, JULY 1, 1965, 2300 G.C.T.													
DRY BULB	24.9	WET BULB	21.7	WIND SPEED	20, DIR. 08	BAR.	23	WEATHER	02	VIS.	8	CLOUD TYPE R,	COVER 2
DEPTH	TEMP.	SAL.	XY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.	
0	25.20	34.56			22.97	490.3	0	25.20	34.56	22.97	490.3	0.000	
9	25.15	34.56			22.98	489.2	10	25.15	34.56	22.98	489.3	0.049	
46	24.56	34.74			23.30	460.7	20	25.12	34.57	23.01	487.6	0.099	
69	23.13	35.08			23.98	396.8	30	24.98	34.62	23.08	481.1	0.147	
92	22.14	35.19			24.34	362.8	50	24.32	34.80	23.42	449.7	0.241	
114	21.65	35.17			24.48	350.5	75	22.83	35.13	24.10	385.4	0.346	
137	20.95	35.20			24.68	332.3	100	21.95	35.20	24.40	357.5	0.440	
159	20.37	35.19			24.83	318.8	150	20.67	35.20	24.77	324.3	0.612	
182	19.42	35.10			25.01	302.3	200	18.35	34.93	25.15	289.1	0.766	
204	18.09	34.89			25.18	285.9	250	14.90	34.51	25.63	243.5	0.900	
226	16.59	34.71			25.41	265.0	300	12.25	34.27	26.00	209.5	1.015	
247	15.10	34.53			25.61	246.2	400	8.95	34.09	26.44	167.7	1.205	
269	13.69	34.37			25.80	227.9	500	6.78	34.07	26.74	139.0	1.360	
356	10.35	34.16			26.26	184.9	600	5.66	34.17	26.98	117.9	1.490	
444	7.80	34.06			26.59	153.3	700	5.03	34.30	27.14	101.1	1.600	
532	6.35	34.09			26.81	132.0	800	4.61	34.39	27.26	90.4	1.697	
712	4.98	34.32			27.16	99.4	1000	4.01	34.49	27.40	77.6	1.867	
897	4.32	34.45			27.34	83.5	1200	3.48	34.55	27.51	68.3	2.015	
1091	3.77	34.52			27.45	73.4							
1392	3.08	34.57			27.56	63.7							

TEMPERATURE ERROR TEMP AT 300. METERS IS 0.11

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 17, STATION 42, 22- IN LAT, 157- 0W LONG, JULY 2, 1965, 0900 G.C.T.		DRY BULB 24.6		WET BULB 21.5		WIND SPEED 23, DIR. 07		BAR. 20		WEATHER 00		VIS. 7		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	25.14	34.50			22.94	492.9	0	25.14	34.50	22.94	492.9	0.000			
10	25.17	34.50			22.93	494.2	10	25.17	34.50	22.93	494.2	0.050			
30 ^A	25.14	34.50			22.94	494.1	20	25.16	34.50	22.94	494.3	0.099			
52	25.11	34.50			22.95	494.1	30	25.14	34.50	22.94	494.1	0.149			
78	23.72	34.85			23.63	430.1	50	25.13	34.49	22.94	495.1	0.249			
102	22.90	34.98			23.97	398.9	75	23.90	34.81	23.54	438.4	0.366			
127	21.62	35.09			24.41	357.4	100	22.97	34.97	23.94	401.2	0.472			
154	20.76	35.14			24.68	332.3	150	20.89	35.14	24.65	335.4	0.658			
178	19.39	34.99			24.93	309.3	200	18.48	34.89	25.09	295.3	0.817			
203	18.34	34.87			25.11	293.3	250	14.76	34.43	25.60	246.5	0.953			
230	16.23	34.59			25.40	265.8	300	11.86	34.17	26.00	209.3	1.068			
254	14.48	34.40			25.64	242.9	400	8.86	34.11	26.47	164.7	1.257			
280	12.88	34.26			25.86	221.8	500	6.61	34.10	26.78	134.4	1.408			
304	11.67	34.16			26.02	207.0	600	5.42	34.19	27.01	113.2	1.533			
405	8.77	34.12			26.49	163.0	700	4.82	34.29	27.16	99.3	1.640			
507	6.48	34.10			26.80	132.6	800	4.50	34.38	27.26	89.7	1.736			
607	5.37	34.20			27.02	112.0	1000	4.01	34.50	27.41	77.3	1.905			
809	4.48	34.39			27.27	89.1	1200	3.36	34.53	27.50	68.7	2.053			
1012	3.98	34.50			27.41	76.7	1500	2.87	34.58	27.58	61.2	2.250			
1213	3.32	34.53			27.50	68.2									
1518	2.85	34.58			27.59	61.0									

ΔFROM BT DATA

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 21

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 21, STATION		7A, 10-0N	ON LAT, 154-	OW LONG, JAN. 22, 1966,	1000 G.C.T.							
DRY BULB 25.0	WET BULB 22.7	WIND SPEED 18,	DIR. 06	BAR. 09	WEATHER 02	VIS. 6	CLOUD TYPE	, COVER 7				
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	26.23	34.02	4.69		22.25	559.6	0	26.23	34.02	22.25	559.6	0.000
9	26.25	34.01	4.78	0.24	22.23	561.3	10	26.25	34.01	22.23	561.1	0.056
30 ^Δ	26.30	34.15			22.32	553.5	20	26.28	34.07	22.27	558.1	0.113
47	26.33	34.24	4.73	0.26	22.38	548.6	30	26.30	34.15	22.32	553.5	0.169
50 ^Δ	26.33	34.24			22.38	548.7	50	26.33	34.24	22.38	548.7	0.280
69	25.74	34.33	4.81	0.33	22.63	525.4	75	23.91	34.39	23.23	468.3	0.408
94	17.18	34.53	3.63	1.12	25.13	287.3	100	15.72	34.48	25.43	258.5	0.499
118	12.74	34.37	2.26	1.28	25.98	206.9	150	11.71	34.68	26.42	165.7	0.606
140	11.95	34.64	0.48	2.51	26.34	173.0	200	11.00	34.71	26.57	152.3	0.686
164	11.45	34.70	0.32	2.09	26.48	160.1	250	10.36	34.72	26.69	141.3	0.761
188	11.17	34.72	0.26	2.34	26.55	154.2	300	9.90	34.68	26.74	138.2	0.831
212	10.83	34.70	0.29	2.59	26.59	150.3	400	9.16	34.64	26.83	130.4	0.967
234	10.54	34.72	0.37	2.46	26.66	144.3	500	8.21	34.62	26.96	119.4	1.093
258	10.27	34.72	0.39	2.64	26.71	140.3	600	7.20	34.58	27.08	108.8	1.208
281	10.05	34.69	0.38	2.40	26.72	139.3	700	6.38	34.56	27.17	100.3	1.314
375	9.36	34.65	0.36	2.54	26.81	132.8	800	5.70	34.55	27.26	92.8	1.411
468	8.55	34.63	0.30	2.98	26.92	123.1	1000	4.69	34.57	27.39	80.3	1.586
561	7.56	34.59	0.34	2.58	27.04	112.6	1200	3.91	34.59	27.49	70.8	1.739
749	6.03	34.55	0.73	3.07	27.21	96.6	1500	3.12	34.62	27.59	61.3	1.940
938	4.96	34.56	0.80	3.01	27.35	83.9						
1175	4.06	34.60	1.26	2.86	27.48	71.8						
1517	3.09	34.62	1.71	2.98	27.60	61.0						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.39

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 21, STATION		8, 11-30N	LAT, 154-	OW LONG, JAN. 23, 1966,	1100 G.C.T.							
DRY BULB 24.8	WET BULB 22.3	WIND SPEED 12,	DIR. 05	BAR. 11	WEATHER 03	VIS. 7	CLOUD TYPE 8,	COVER 3				
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.32	34.37	4.85		22.79	507.5	0	25.32	34.37	22.79	507.5	0.000
11	25.34	34.36	4.82	0.33	22.78	509.2	10	25.34	34.36	22.78	509.1	0.051
49	25.36	34.34	4.84	0.30	22.75	512.8	20	25.35	34.35	22.77	510.4	0.103
74 ^Δ	25.34	34.34	4.88	0.24	22.76	513.2	30	25.36	34.35	22.76	511.5	0.154
75 ^Δ	25.34	34.34			22.76	513.2	50	25.36	34.34	22.76	512.8	0.257
98	17.56	34.55	3.72	1.06	25.05	294.7	75	25.34	34.34	22.76	513.2	0.386
123	12.57	34.36	2.46	1.63	26.00	204.6	100	17.01	34.53	25.17	283.5	0.487
147	11.84	34.64	0.64	2.53	26.36	171.1	150	11.76	34.66	26.39	168.6	0.601
171	11.30	34.71	0.31	2.71	26.51	156.9	200	10.91	34.72	26.59	149.8	0.681
196	10.96	34.72	0.40	1.96	26.58	150.7	250	10.35	34.72	26.69	141.3	0.754
221	10.66	34.73	0.39	2.58	26.65	145.4	300	9.76	34.70	26.77	134.4	0.824
245	10.40	34.72	0.40	2.94	26.68	142.2	400	8.97	34.65	26.87	127.3	0.956
269	10.13	34.72	0.58	2.63	26.73	138.1	500	8.05	34.60	26.97	118.6	1.080
294	9.82	34.70	0.54	2.40	26.77	135.0	600	7.13	34.56	27.07	109.3	1.195
392	9.04	34.65	0.38	2.63	26.86	127.9	700	6.36	34.54	27.16	101.2	1.301
491	8.14	34.60	0.44	2.61	26.96	119.4	800	5.71	34.54	27.25	93.5	1.400
589	7.22	34.56	0.48	2.84	27.06	110.3	1000	4.66	34.57	27.40	79.8	1.575
786	5.80	34.54	0.64	2.93	27.24	94.7	1200	4.03	34.59	27.48	72.5	1.730
982	4.73	34.57	1.05	3.29	27.39	80.6	1500	3.18	34.62	27.59	61.8	1.934
1228	3.96	34.59	1.32	2.93	27.49	71.8						
1573	3.05	34.63	1.78	2.89	27.61	60.1						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 21, STATION		9, 13-0N	LAT, 154-	OW LONG, JAN. 24, 1966,	1200 G.C.T.							
DRY BULB 24.0	WET BULB 22.8	WIND SPEED 19,	DIR. 05	BAR. 14	WEATHER 02	VIS.	CLOUD TYPE	, COVER				
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	25.04	34.28	4.89		22.81	505.8	0	25.04	34.28	22.81	505.8	0.000
9	25.06	34.28	4.86	0.35	22.80	506.8	10	25.06	34.28	22.80	506.8	0.051
30 ^Δ	25.07	34.28			22.80	507.9	20	25.07	34.28	22.80	507.4	0.102
47	25.08	34.28	4.86	0.29	22.79	508.8	30	25.07	34.28	22.80	507.9	0.153
50 ^Δ	25.07	34.28			22.80	508.7	50	25.07	34.28	22.80	508.7	0.256
72	22.99	34.80		0.29	23.81	413.2	75	22.74	34.85	23.92	402.7	0.370
96	21.07	35.06	4.89	0.24	24.54	344.0	100	20.78	35.06	24.62	336.9	0.464
120	19.21	34.93	4.55	0.33	24.93	307.2	150	15.87	34.58	25.47	256.6	0.613
144	16.70	34.67	4.35	0.63	25.35	267.9	200	10.90	34.22	26.20	186.8	0.725
168	13.46	34.32	3.86	1.15	25.79	225.8	250	10.47	34.56	26.55	155.0	0.811
193	11.22	34.20	3.54	1.56	26.13	193.4	300	10.05	34.63	26.67	144.1	0.886
217	10.49	34.31	2.43	2.17	26.35	173.3	400	8.58	34.58	26.88	125.7	1.023
241	10.43	34.51	0.92	2.50	26.51	158.0	500	7.41	34.54	27.02	112.8	1.143
264	10.50	34.62	0.35	2.75	26.59	151.7	600	6.44	34.52	27.14	102.3	1.252
288	10.22	34.63	0.34	2.59	26.64	146.7	700	5.76	34.53	27.23	93.9	1.351
386	8.76	34.59	0.28	2.75	26.86	127.8	800	5.16	34.54	27.31	86.5	1.442
482	7.61	34.55	0.45	2.96	27.00	115.0	1000	4.05	34.56	27.46	72.8	1.603
579	6.60	34.52	0.40	3.12	27.12	104.3	1200	3.40	34.58	27.54	65.1	1.743
774	5.34	34.54	0.52	3.16	27.29	88.4						
909	4.47	34.54	0.76	3.29	27.39	78.8						
1055	3.85	34.58	1.20	3.23	27.49	69.6						
1356	3.22	34.60	1.66	3.02	27.57	62.9						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA				
CROMWELL		21, STATION		10, 14-28N LAT, 153-57W LONG, JAN. 25, 1966, 1100 G.C.T.									
DRY BULB	24.5	WET BULB	21.9	WIND SPEED	20, DIR. 05	BAR. 14	WEATHER	02	VIS. 7	CLOUD TYPE	, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.78	34.38	4.88		22.96	491.1	0	24.78	34.38	22.96	491.1	0.000	
9 ^Δ	24.82	34.39	5.49	0.32	22.96	491.9	10	24.82	34.39	22.96	492.0	0.050	
30	24.85	34.40			22.96	492.9	20	24.85	34.40	22.95	492.7	0.099	
47	24.78	34.41	4.95	0.28	22.98	490.8	30	24.85	34.40	22.96	492.9	0.149	
69	24.31	34.88	4.95	0.23	23.48	444.3	50	24.73	34.47	23.04	485.2	0.247	
93	23.61	34.93	4.95	0.25	23.72	421.9	75	24.20	34.91	23.53	439.3	0.364	
116	21.78	35.06	4.93	0.20	24.34	363.4	100	23.11	34.98	23.91	404.8	0.470	
140	19.90	34.92	4.54	0.42	24.75	325.8	150	18.94	34.85	24.94	307.7	0.650	
163	17.58	34.73	4.08	0.70	25.19	284.2	200	13.68	34.35	25.77	229.0	0.785	
186	15.02	34.47	3.92	0.94	25.58	247.1	250	10.32	34.23	26.31	177.3	0.887	
210	12.80	34.28	3.82	1.21	25.89	217.0	300	9.29	34.36	26.59	151.6	0.970	
233	10.93	34.21	3.48	1.53	26.19	188.5	400	8.10	34.46	26.85	127.8	1.111	
256	10.19	34.24	2.92	2.03	26.35	174.2	500	7.27	34.50	27.01	114.2	1.233	
280	9.64	34.32	2.07	2.26	26.50	159.7	600	6.46	34.48	27.11	105.3	1.344	
374	8.35	34.43	0.81	2.34	26.79	133.1	700	5.75	34.50	27.21	96.0	1.446	
467	7.55	34.50	0.69	2.90	26.97	117.5	800	5.17	34.52	27.29	88.3	1.539	
561	6.76	34.48	0.64	2.98	27.06	109.2	1000	4.30	34.54	27.41	77.6	1.707	
750	5.44	34.51	0.66	3.11	27.26	91.6	1200	3.60	34.57	27.51	68.6	1.855	
939	4.53	34.53	1.40	2.58	27.38	80.6	1500	2.85	34.62	27.62	58.1	2.048	
1176	3.72	34.57	1.20	2.74	27.49	69.8							
1510	2.83	34.62	1.66	2.58	27.62	57.8							

CROMWELL		21, STATION		11, 16- 0N LAT, 154- 0W LONG, JAN. 26, 1966, 1100 G.C.T.									
DRY BULB	23.7	WET BULB	20.8	WIND SPEED	22, DIR. 04	BAR. 14	WEATHER	02	VIS. 6	CLOUD TYPE	, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	24.10	34.83	5.48		23.50	439.3	0	24.10	34.83	23.50	439.3	0.000	
25	24.12	34.82	4.90	0.21	23.49	441.5	10	24.12	34.82	23.49	440.7	0.044	
50	24.07	34.84	4.91	0.25	23.52	439.7	20	24.12	34.82	23.49	441.4	0.089	
75	23.86	34.88	4.91	0.19	23.61	431.8	30	24.12	34.82	23.49	441.6	0.133	
98	23.71	34.93	4.96	0.24	23.69	424.9	50	24.07	34.84	23.52	439.7	0.222	
124	22.00	35.06	4.88	0.24	24.28	369.6	75	23.86	34.88	23.61	431.8	0.332	
148	20.40	35.10	4.52	0.34	24.75	325.7	100	23.61	34.94	23.73	421.4	0.439	
172	18.84	34.92	4.41	0.50	25.02	300.7	150	20.28	35.09	24.78	323.3	0.627	
196	16.83	34.66	4.16	0.59	25.31	273.1	200	16.43	34.61	25.37	268.0	0.776	
221	14.29	34.37	3.92	1.00	25.66	240.2	250	11.86	34.28	26.07	200.6	0.894	
245	12.16	34.28	2.68	1.78	26.02	205.8	300	9.67	34.30	26.48	161.8	0.985	
343	8.93	34.40	1.06	2.73	26.68	143.7	400	8.22	34.43	26.82	131.2	1.133	
441	7.97	34.45	0.53	2.66	26.87	127.0	500	7.55	34.48	26.95	119.8	1.260	
539	7.29	34.49	0.52	3.05	27.00	115.7	600	6.76	34.49	27.07	108.8	1.375	
734	5.67	34.49	0.62	2.80	27.21	95.9	700	5.94	34.49	27.18	98.9	1.480	
931	4.75	34.52	0.80	2.97	27.35	84.0	800	5.31	34.50	27.26	91.4	1.577	
1175	3.84	34.56	1.16	3.15	27.47	72.0	1000	4.47	34.53	27.39	80.4	1.750	
1520	2.88	34.60	1.62	2.53	27.60	59.9	1200	3.74	34.56	27.49	71.0	1.904	
							1500	2.92	34.60	27.59	60.5	2.104	

TEMPERATURE ERROR TERM AT 300. METERS IS 0.27

CROMWELL		21, STATION		12, 17-30N LAT, 153-58W LONG, JAN. 27, 1966, 1000 G.C.T.									
DRY BULB	23.5	WET BULB	20.3	WIND SPEED	15, DIR. 10	BAR. 18	WEATHER	02	VIS. 6	CLOUD TYPE	8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0	23.88	34.80	4.95		23.55	435.2	0	23.88	34.80	23.55	435.2	0.000	
11	23.91	34.79	4.95	0.25	23.53	437.2	10	23.91	34.79	23.53	437.2	0.044	
51	23.51	34.96	5.01	0.25	23.78	415.3	20	23.84	34.82	23.58	433.2	0.088	
75	23.44	34.96	4.99	0.22	23.80	414.3	30	23.75	34.86	23.63	428.1	0.131	
100	21.55	35.02	5.04	0.27	24.38	359.6	50	23.52	34.96	23.77	416.0	0.216	
126	20.38	35.05	4.70	0.27	24.72	328.0	75	23.44	34.96	23.80	414.3	0.321	
150	19.40	35.02	4.54	0.37	24.95	306.4	100	21.55	35.02	24.38	359.6	0.418	
175	17.92	34.83	4.47	0.45	25.18	285.3	150	19.40	35.02	24.95	306.4	0.586	
200	15.88	34.57	4.31	0.63	25.46	258.7	200	15.88	34.57	25.46	258.7	0.728	
225	13.58	34.32	4.22	0.89	25.77	229.7	250	11.50	34.15	26.04	203.4	0.845	
250	11.50	34.15	4.22	0.98	26.04	203.4	300	9.44	34.13	26.39	170.9	0.939	
275	10.32	34.12	4.04	1.24	26.23	185.6	400	7.40	34.17	26.73	138.7	1.095	
300	9.44	34.13	3.68	1.70	26.39	170.9	500	6.44	34.31	26.97	116.4	1.224	
400	7.40	34.17	1.88	2.48	26.73	138.7	600	5.86	34.42	27.13	101.8	1.334	
499	6.45	34.31	0.91	2.88	26.97	116.6	700	5.34	34.48	27.24	92.3	1.433	
598	5.87	34.42	0.69	2.85	27.13	102.0	800	4.89	34.50	27.31	85.9	1.523	
798	4.90	34.50	0.86	3.08	27.31	86.0	1000	4.16	34.52	27.41	77.3	1.688	
997	4.17	34.52	1.16	3.13	27.41	77.5	1200	3.60	34.59	27.53	66.8	1.834	
1245	3.49	34.61	1.33	2.62	27.55	64.6	1500	2.86	34.60	27.60	59.4	2.026	
1594	2.67	34.60	1.78	2.50	27.62	57.8							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 21, STATION 13, 19- ON LAT, 153-59W LONG, JAN. 28, 1966, 1000 G.C.T.												
DRY BULB	23.1	WET BULB	19.8	WIND SPEED	17, DIR. 04	BAR. 20	WEATHER	03	VIS. 7	CLOUD TYPE 8,	COVER 5	
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	23.54	34.92	4.96		23.74	417.1	0	23.54	34.92	23.74	417.1	0.000
9	23.56	34.93	5.04	0.34	23.74	417.2	10	23.56	34.93	23.74	417.2	0.042
45	23.48	34.93	5.09	0.28	23.76	416.4	20	23.54	34.93	23.74	417.1	0.084
68	23.47	34.94	5.00	0.30	23.77	416.3	30	23.52	34.93	23.75	416.9	0.126
92	23.40	34.94	4.99	0.28	23.79	415.3	50	23.48	34.93	23.76	416.4	0.210
115	23.17	34.96	5.00	0.25	23.87	408.3	75	23.46	34.94	23.77	416.4	0.315
137	21.36	35.04	5.00	0.28	24.45	354.5	100	23.43	34.94	23.79	416.1	0.420
160	20.23	35.11	4.77	0.51	24.80	321.1	150	20.65	35.09	24.68	333.0	0.608
183	19.48	35.05	4.65	0.41	24.95	307.4	200	18.69	34.96	25.09	295.4	0.767
206	18.34	34.91	4.58	0.47	25.14	290.5	250	14.02	34.33	25.69	238.1	0.901
230	16.50*	34.66	4.42	0.61	25.39	266.8	300	10.97	34.15	26.14	194.8	1.011
253	13.66	34.29	4.20	1.01	25.73	234.2	400	8.45	34.34	26.70	142.0	1.180
276	12.16	34.17	4.09	1.16	25.93	214.6	500	7.34	34.39	26.91	123.2	1.314
369	8.83	34.29	1.88	2.42	26.61	150.7	600	5.98	34.37	27.08	107.0	1.431
461	7.99	34.40	0.69	2.89	26.82	131.4	700	5.33	34.42	27.20	96.1	1.533
554	6.43	34.36	0.68	3.02	27.01	113.4	800	4.96	34.47	27.28	89.0	1.627
740	5.20	34.45	0.88	3.11	27.24	92.9	1000	4.30	34.51	27.39	79.8	1.798
927	4.55	34.50	0.94	3.11	27.35	83.0	1200	3.68	34.55	27.48	71.3	1.951
1161	3.78	34.53	1.30	3.20	27.46	73.4						
1493	2.91	34.59	1.58	3.11	27.59	60.8						

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL 21, STATION 14, 20-30N LAT, 153-58W LONG, JAN. 29, 1966, 1200 G.C.T.												
DRY BULB	21.5	WET BULB	19.4	WIND SPEED	20, DIR. 05	BAR. 20	WEATHER	02	VIS. 6	CLOUD TYPE 5,	COVER 8	
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	22.66	34.98	5.06		24.04	388.5	0	22.66	34.98	24.04	388.5	0.000
10	22.68	34.98	5.06	0.50	24.03	389.4	10	22.68	34.98	24.03	389.4	0.039
50	22.53	35.03	5.18		24.11	383.3	20	22.66	34.99	24.05	388.4	0.078
75	22.48	35.04	5.09	0.21	24.13	382.1	30	22.62	35.00	24.06	387.0	0.117
100	22.40	35.03	5.08	0.22	24.15	381.6	50	22.53	35.03	24.11	383.3	0.195
125	21.79	35.10	5.00	0.29	24.37	361.1	75	22.48	35.04	24.13	382.1	0.291
150	20.46	35.14	4.90	0.30	24.77	324.4	100	22.40	35.03	24.15	381.6	0.388
174	19.95	35.14	4.80	0.27	24.90	312.3	150	20.46	35.14	24.77	324.4	0.565
200	18.83	34.99	4.64	0.36	25.08	296.3	200	18.83	34.99	25.08	296.3	0.722
225	16.91	34.74	4.57	0.47	25.35	270.1	250	14.32	34.35	25.64	243.2	0.858
249	14.41	34.36	4.39	0.79	25.63	244.2	300	11.19	34.18	26.12	196.9	0.969
274	12.56	34.21	4.41	0.99	25.89	219.2	400	8.07	34.07	26.55	155.8	1.147
299	11.23	34.18	4.66	1.04	26.12	197.5	500	6.42	34.16	26.86	127.2	1.290
399	8.09	34.07	3.36	1.98	26.55	156.1	600	5.49	34.26	27.05	108.9	1.409
499	6.43	34.16	1.48	2.66	26.86	127.4	700	5.06	34.37	27.19	96.6	1.513
599	5.50	34.26	0.82	2.93	27.05	109.1	800	4.84	34.46	27.29	88.2	1.606
799	4.84	34.46	0.86	3.06	27.29	88.2	1000	4.22	34.51	27.40	78.9	1.775
998	4.23	34.51	1.05	3.19	27.39	78.9	1200	3.65	34.54	27.48	71.1	1.927
1247	3.53	34.55	1.26	3.10	27.50	69.5	1500	2.95	34.58	27.57	62.4	2.130
1596	2.75	34.58	1.69	3.11	27.59	60.3						

CROMWELL 21, STATION 15, 22- ON LAT, 153-59W LONG, JAN. 30, 1966, 1000 G.C.T.												
DRY BULB	21.4	WET BULB	17.1	WIND SPEED	09, DIR. 06	BAR. 21	WEATHER	03	VIS. 6	CLOUD TYPE 8,	COVER 7	
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0	22.49	35.03	6.00		24.12	380.3	0	22.49	35.03	24.12	380.3	0.000
10	22.58	35.03	5.18	0.27	24.10	383.1	10	22.58	35.03	24.10	383.1	0.038
46	22.60	35.01	5.33	0.20	24.08	386.4	20	22.61	35.02	24.08	384.8	0.077
69	22.60	35.02	5.29	0.18	24.08	386.6	30	22.52	35.02	24.08	385.9	0.116
93	22.57	35.03	5.38	0.19	24.10	386.0	50	22.60	35.01	24.08	386.6	0.194
116	22.57	35.04	5.17	0.18	24.11	386.1	75	22.59	35.02	24.09	386.4	0.291
139	21.61	35.10	4.83	0.42	24.42	356.9	100	22.62	35.03	24.09	387.6	0.389
161	20.88	35.13	4.72	0.24	24.64	336.4	150	21.26	35.12	24.54	346.4	0.574
185	19.69	35.09	4.58	0.30	24.93	309.8	200	18.98	35.02	25.06	298.2	0.736
208	18.56	34.96	4.45	0.35	25.12	292.2	250	15.39	34.54	25.55	251.9	0.875
231	16.90*	34.74	4.58	0.44	25.36	270.0	300	12.68	34.28	25.92	217.0	0.993
254	15.09	34.50	4.58	0.62	25.59	248.4	400	8.95	34.12	26.46	165.7	1.186
277	13.83	34.37	4.65	0.67	25.75	232.4	500	6.97	34.13	26.76	137.4	1.339
369	9.88	34.14	3.90	1.62	26.32	178.7	600	5.96	34.20	26.95	119.7	1.469
461	7.57	34.12	2.48	2.29	26.67	145.8	700	5.29	34.32	27.12	103.3	1.582
555	6.36	34.15	1.46	2.63	26.86	128.0	800	4.82	34.42	27.26	91.0	1.680
740	5.10	34.37	0.70	3.15	27.19	97.5	1000	4.10	34.51	27.41	77.1	1.850
926	4.34	34.49	0.90	3.21	27.37	81.1	1200	3.51	34.57	27.51	67.7	1.997
1161	3.64	34.54	1.16		27.48	70.9						
1494	2.93	34.59	1.57	2.96	27.59	61.1						

*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL 21, STATION 16, 23-30N LAT, 153-58W LONG, JAN. 31, 1966, 0900 G.C.T.																	
DRY BULB 22.2		WET BULB 19.0		WIND SPEED 15, DIR. 13		BAR. 19		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 7					
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	22.25	35.04	5.10		24.20	373.1	0	22.25	35.04	24.20	373.1	0.000					
9	22.27	35.04	5.16	0.16	24.19	374.0	10	22.27	35.04	24.19	373.9	0.038					
47	22.02	35.06	5.18	0.19	24.28	367.2	20	22.22	35.04	24.21	373.0	0.075					
70	21.90	35.10	5.32	0.18	24.34	362.0	30	22.16	35.05	24.23	371.4	0.113					
94	21.82	35.11	5.14	0.19	24.37	360.1	50	22.00	35.07	24.29	366.5	0.187					
116	21.73	35.18	5.12	0.11	24.45	353.4	75	21.88	35.10	24.35	361.7	0.279					
140	20.45	35.13	4.96	0.19	24.76	324.5	100	21.85	35.13	24.38	359.5	0.370					
164	19.65	35.12	4.88	0.18	24.96	305.9	150	20.13	35.14	24.85	316.3	0.540					
186	18.33	34.94	4.74	0.30	25.16	287.4	200	17.69	34.85	25.25	279.3	0.690					
209	17.27	34.79	4.73	0.54	25.31	274.2	250	15.15	34.52	25.59	248.2	0.823					
232	15.82	34.60	4.78	0.47	25.50	256.2	300	12.86	34.31	25.90	218.6	0.941					
255	14.98	34.50	4.75	0.58	25.61	246.1	400	9.67	34.12	26.34	177.2	1.140					
278	13.81	34.38	4.78	0.64	25.77	231.3	500	7.28	34.04	26.64	148.3	1.305					
371	10.44	34.17	4.91	1.12	26.25	186.0	600	5.51	34.10	26.92	121.4	1.441					
462	8.22	34.05	3.92	1.79	26.52	160.6	700	4.73	34.22	27.11	103.5	1.555					
554	6.10	34.05	2.14	2.47	26.81	131.9	800	4.40	34.35	27.25	91.0	1.653					
738	4.62	34.28	0.69	3.10	27.17	98.2	1000	3.95	34.50	27.41	76.4	1.822					
922	4.14	34.46	1.04	3.28	27.36	80.8	1200	3.48	34.58	27.52	66.6	1.967					
1154	3.59	34.54	1.38	3.01	27.48	70.3											
1482	2.89	34.59	1.67	3.06	27.59	60.5											

CROMWELL 21, STATION 39, 25- 1N LAT, 153-57W LONG, FEB. 1, 1966, 0900 G.C.T.																	
DRY BULB 21.0		WET BULB 19.0		WIND SPEED 20, DIR. 27		BAR. 15		WEATHER 01		VIS. 6		CLOUD TYPE 6, COVER 8					
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	21.85**	35.12	5.14		24.37	356.6	0	21.85	35.12	24.37	356.6	0.000					
10	21.83	35.10	5.10	0.14	24.36	357.9	10	21.83	35.10	24.36	357.9	0.036					
48	21.87	35.11	5.13	0.12	24.36	359.7	20	21.84	35.10	24.36	358.7	0.072					
72	21.84	35.11	5.10	0.16	24.37	359.8	30	21.85	35.10	24.35	359.3	0.108					
96	21.59	35.16	5.10	0.15	24.47	350.4	50	21.87	35.11	24.36	359.9	0.181					
121	21.60	35.16	5.10	0.11	24.47	351.6	75	21.81	35.12	24.38	358.6	0.271					
146	21.40	35.18	5.02	0.20	24.54	345.8	100	21.59	35.16	24.47	350.5	0.360					
170	20.17	35.10	4.88	0.22	24.81	320.6	150	21.22	35.17	24.58	342.0	0.535					
194	19.14	35.02	5.32	0.46	25.02	301.5	200	18.73	34.98	25.09	295.0	0.696					
219	17.34	34.81	4.82	0.40	25.31	274.7	250	15.45	34.56	25.55	251.7	0.833					
244	15.76	34.60	4.71	0.54	25.51	255.2	300	12.99	34.34	25.90	219.0	0.952					
267	14.63	34.46	4.66	0.78	25.66	242.0	400	9.81	34.13	26.33	178.6	1.153					
292	13.33	34.36	4.88	0.78	25.85	223.6	500	7.57	34.05	26.61	151.5	1.319					
390	10.08	34.15	4.84	1.20	26.30	181.8	600	6.02	34.08	26.84	129.4	1.461					
489	7.77	34.05	3.75	1.95	26.58	154.3	700	5.03	34.16	27.03	111.5	1.583					
586	6.29	34.10	1.76	2.66	26.83	131.1											
782	4.64	34.28	0.64	3.19	27.17	98.9											

CROMWELL 21, STATION 39A, 26-30N LAT, 153-58W LONG, FEB. 2, 1966, 1200 G.C.T.																	
DRY BULB 18.0		WET BULB 13.8		WIND SPEED 12, DIR. 01		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3					
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0	21.34	35.13	5.43		24.52	342.4	0	21.34	35.13	24.52	342.4	0.000					
9	21.37	35.13	5.20	0.15	24.51	343.6	10	21.37	35.13	24.51	343.7	0.035					
45	21.38	35.12	5.18	0.11	24.50	345.9	20	21.38	35.13	24.50	344.6	0.069					
67	21.38	35.13	5.24	0.23	24.51	346.0	30	21.39	35.12	24.50	345.3	0.104					
90	21.35	35.13	5.14	0.16	24.52	346.0	50	21.38	35.12	24.50	346.0	0.174					
113	21.36	35.14	5.22	0.16	24.52	346.4	75	21.37	35.13	24.51	346.0	0.261					
135	21.35	35.19	5.06	0.16	24.56	343.4	100	21.35	35.13	24.52	346.4	0.348					
156	19.22	35.03	4.88	0.29	25.01	301.5	150	19.88	35.08	24.88	313.7	0.514					
178	18.16	34.90	4.83	0.28	25.17	286.0	200	17.40	34.81	25.29	275.5	0.663					
202	17.32	34.80	4.80	0.41	25.30	274.4	250	14.86	34.51	25.64	242.6	0.793					
225	15.69	34.60	4.83	0.50	25.53	253.1	300	12.82	34.34	25.93	215.5	0.909					
248	14.95	34.52	4.80	0.62	25.63	243.8	400	9.85	34.13	26.32	179.9	1.108					
270	13.96	34.43	4.77	0.68	25.77	230.5	500	7.59	34.04	26.60	152.7	1.276					
360	10.93	34.20	4.97	0.87	26.19	192.1	600	5.97	34.06	26.83	130.2	1.419					
451	8.64	34.06	3.96	1.46	26.46	166.2	700	4.91	34.12	27.01	113.4	1.542					
542	6.81	34.04	2.70	2.25	26.71	142.1	800	4.29	34.22	27.16	99.3	1.650					
725	4.73	34.14	1.00	2.93	27.05	109.8	1000	3.69	34.41	27.37	80.2	1.831					
909	3.91	34.34	0.52	3.28	27.29	86.9	1200	3.22	34.52	27.50	68.0	1.981					
1144	3.46	34.48	1.03	3.15	27.45	73.1	1500	2.85	34.56	27.57	62.2	2.180					
1523	2.84	34.56	1.58	2.91	27.57	62.4											

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

**EXTRAPOLATED DATA

MS# 1587

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