

The Trade Wind Zone Oceanography Pilot Study
Part II: Townsend Cromwell Cruises 4, 5, and 6
May to July 1964

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



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UNITED STATES DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE

BUREAU OF COMMERCIAL FISHERIES

UNITED STATES DEPARTMENT OF THE INTERIOR

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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 second set of three cruises, Townsend Cromwell cruises 4, 5, and 6, May to July 1964, 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.

INTRODUCTION

This is the second 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.

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 the fourth, fifth, and sixth cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

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

Townsend Cromwell, cruise 4:

May 14 to June 5, 1964

David W. K. Au - HL - Field Party Chief
Howard Adrian - HL
Claude E. Allen - HL
Melvin E. Kau - HL
James H. Uchiyama - HL
David Bratley - Smithsonian Institution
Warren King - Smithsonian Institution

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.

Townsend Cromwell, cruise 5:

June 15 to July 5, 1964

Robert P. Brown - HL - Field Party Chief
Howard Adrian - HL
Melvin E. Kau - HL
Michael R. Marcotte - HL
Stephen M. Skolnick - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 6:

July 13 to August 1, 1964

David W. K. Au - HL - Field Party Chief
Howard Adrian - HL
Claude E. Allen - HL
Arthur M. Bauckham, Jr. - HL
Paul M. Shiota - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution
H. W. Tinkenberg - Massachusetts Institute
of Technology

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 19 and 21, 26 and 28, and 35 and 37.

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^{2/} pyranometer. These observations were supplemented by daily color photographs of clouds.

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

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. Current-measuring techniques were tested with an Ekman current meter on cruise 4 and a Roberts meter on cruise 5, both suspended from the ship. The ship was drifting relative to a parachute drogue placed at a depth of 1,200 m. On cruise 6, H. W. Tinkenberg conducted sound-ranging tests using subsurface floats which imploded in the sound channel after a period of time. Results of these tests can be obtained from H. Stommel, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

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 determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-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 ±0.02° 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 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

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

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 bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. 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. The root mean square value computed from the above differences was less than 0.2°C . The bucket salinity values, on the other hand, were consistently larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about $0.03\text{ }^{\circ}/\text{oo}$ and the root mean square value was within $0.07\text{ }^{\circ}/\text{oo}$ 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 4, 5, and 6, 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,^{3/} 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 7A, 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 4, figures 8 through 13 for cruise 5, and figures 14 through 19 for cruise 6.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 4, 5, and 6, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 4, 5, and 6, respectively.

The dynamic topography, relative to 1,200 m. for cruises 4, 5, and 6, is shown in figures 26, 27, and 28, 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 programming.

^{3/}Oxygen and phosphate data are available only for cruise 6. The columns in the tables for cruises 4 and 5 bear the oxygen and phosphate headings only to have a uniform format for this series of reports.

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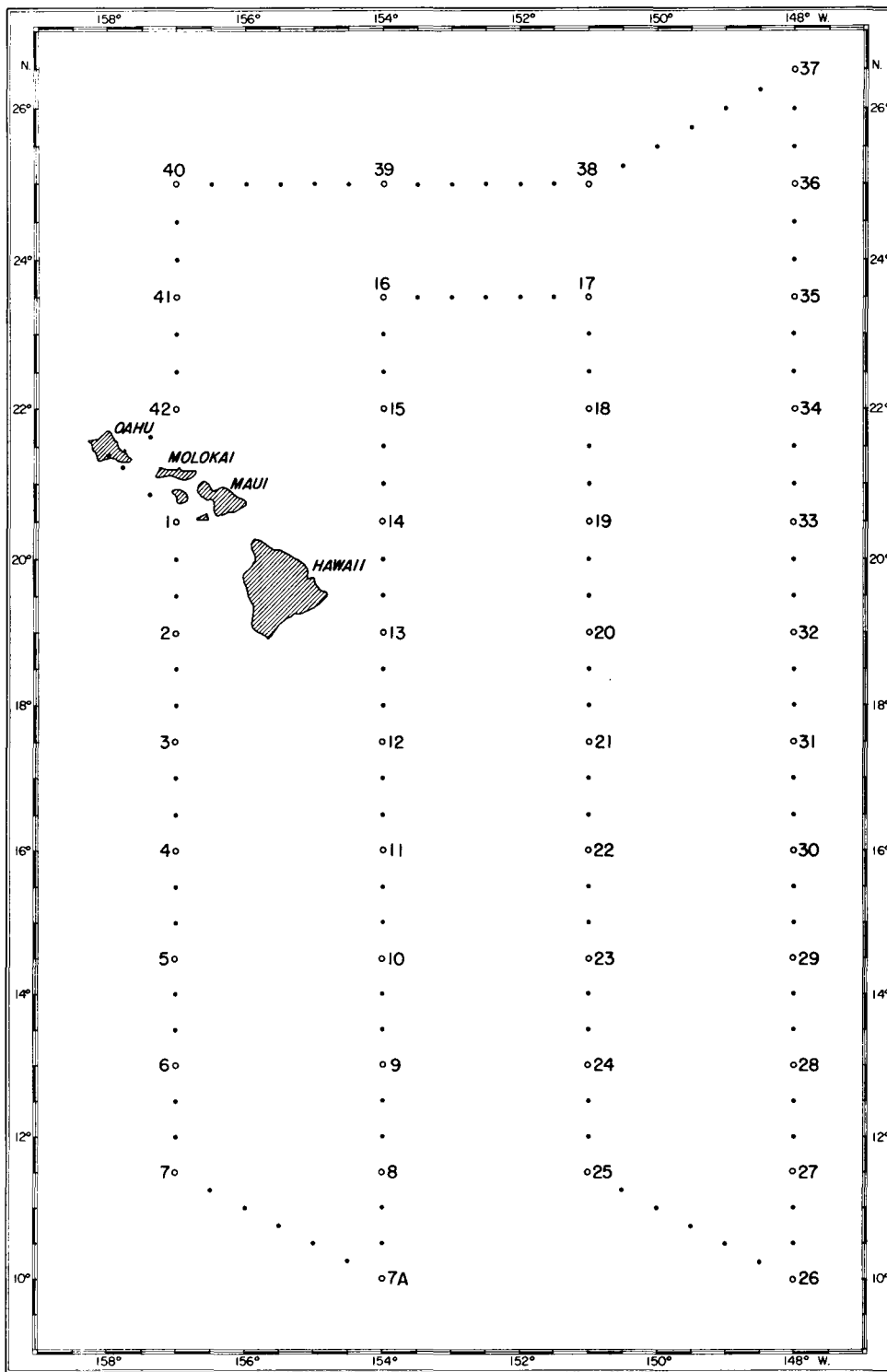


Figure 1.--Track chart for Townsend Cromwell cruises 4, 5, and 6. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

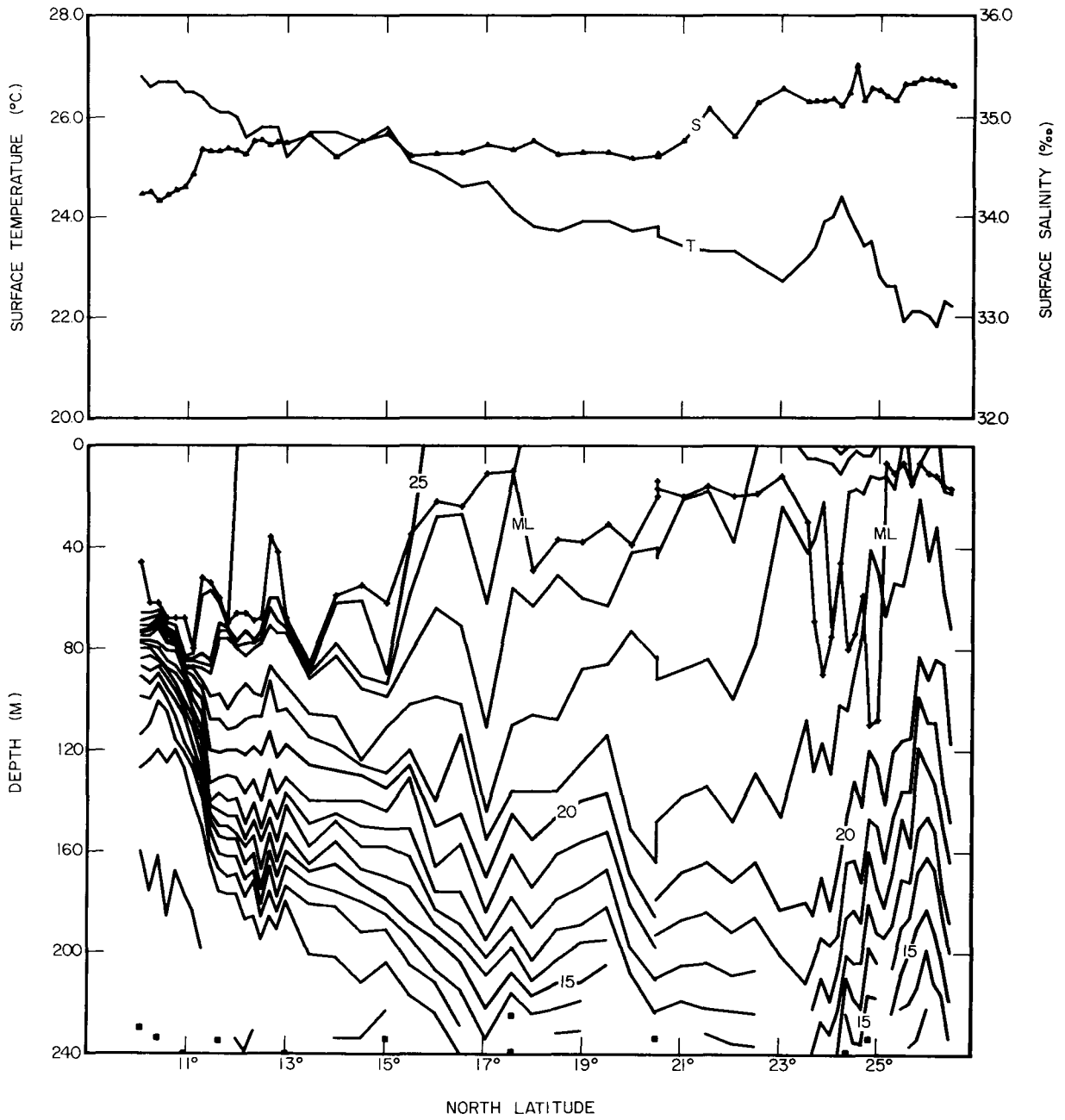


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

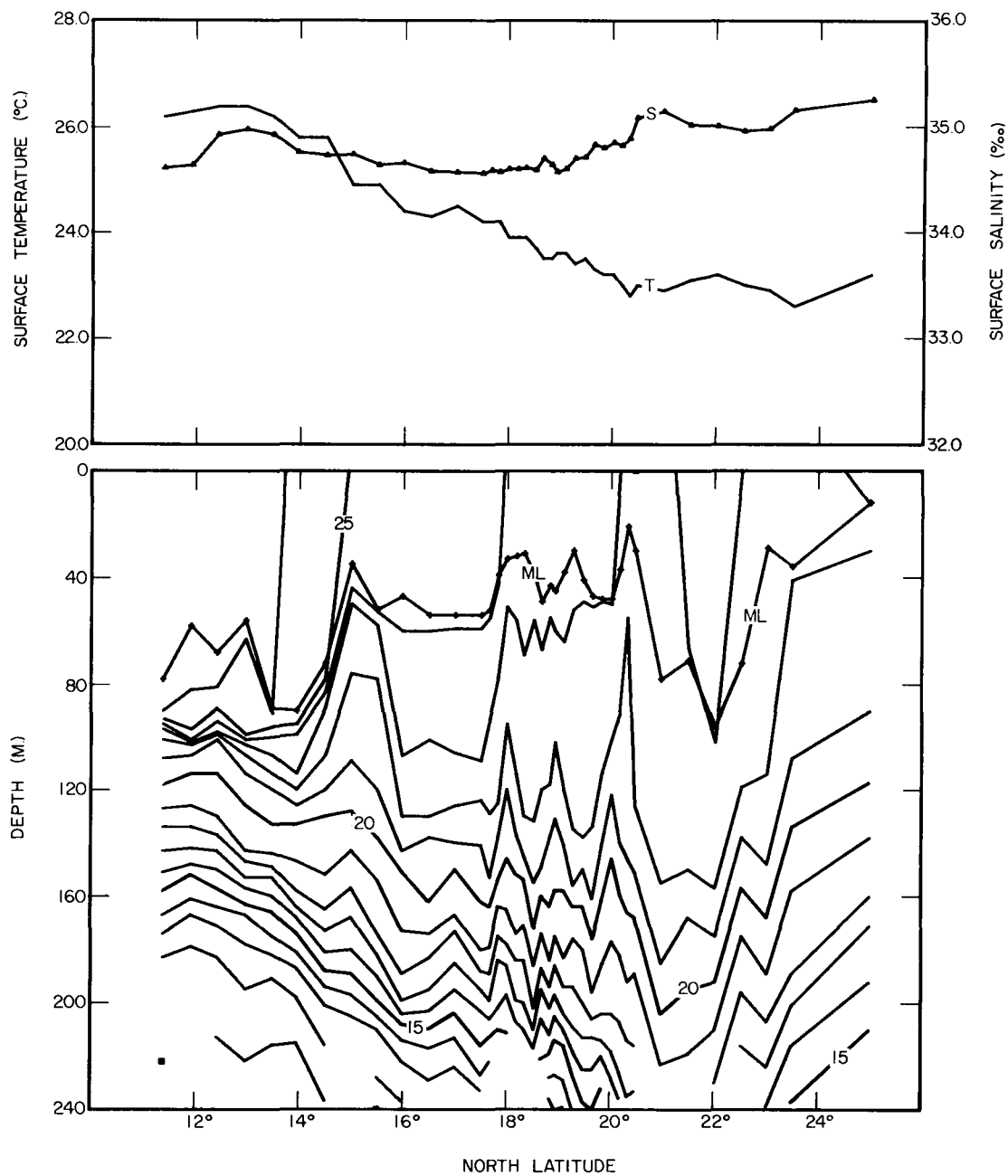


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

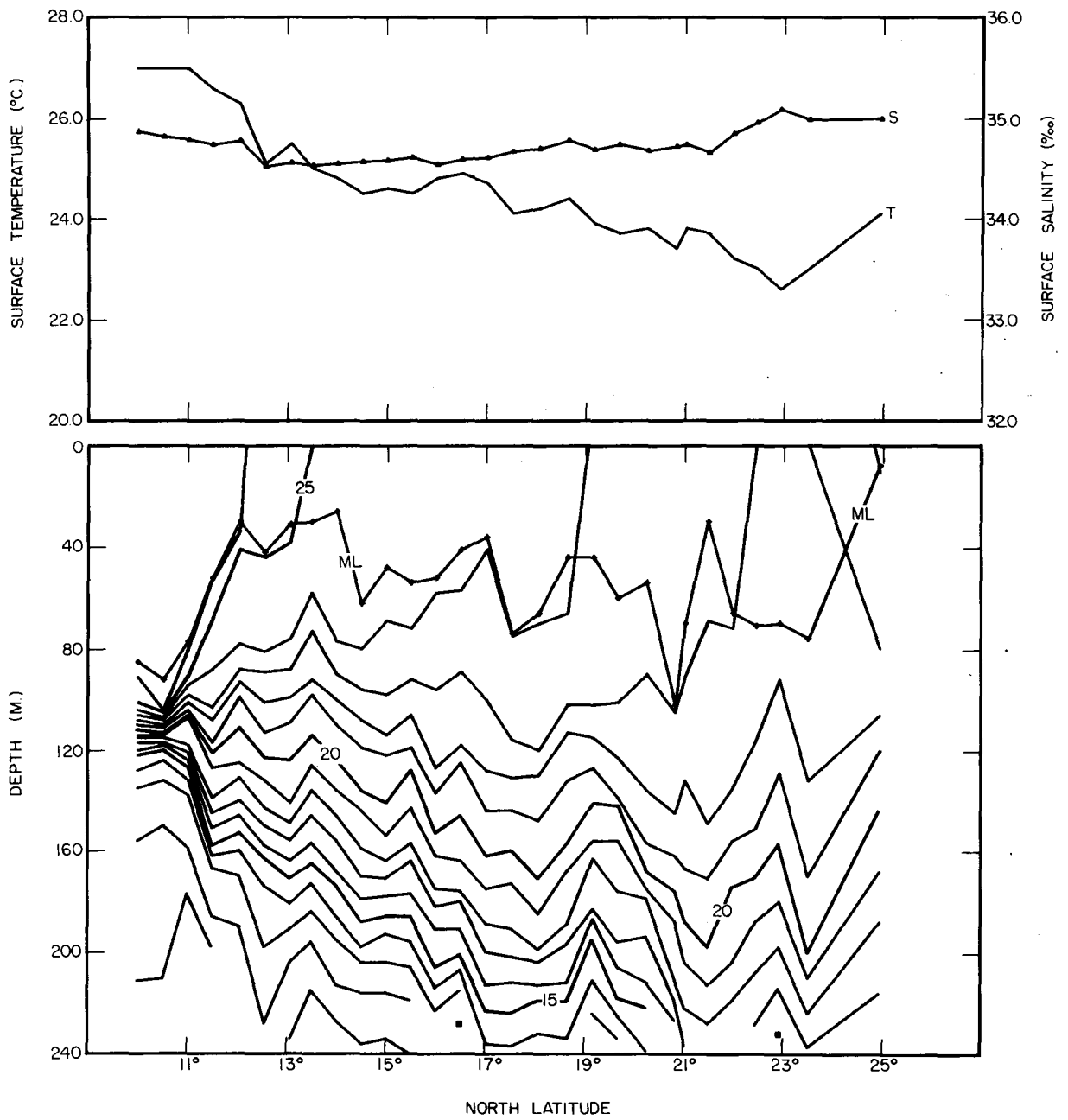


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

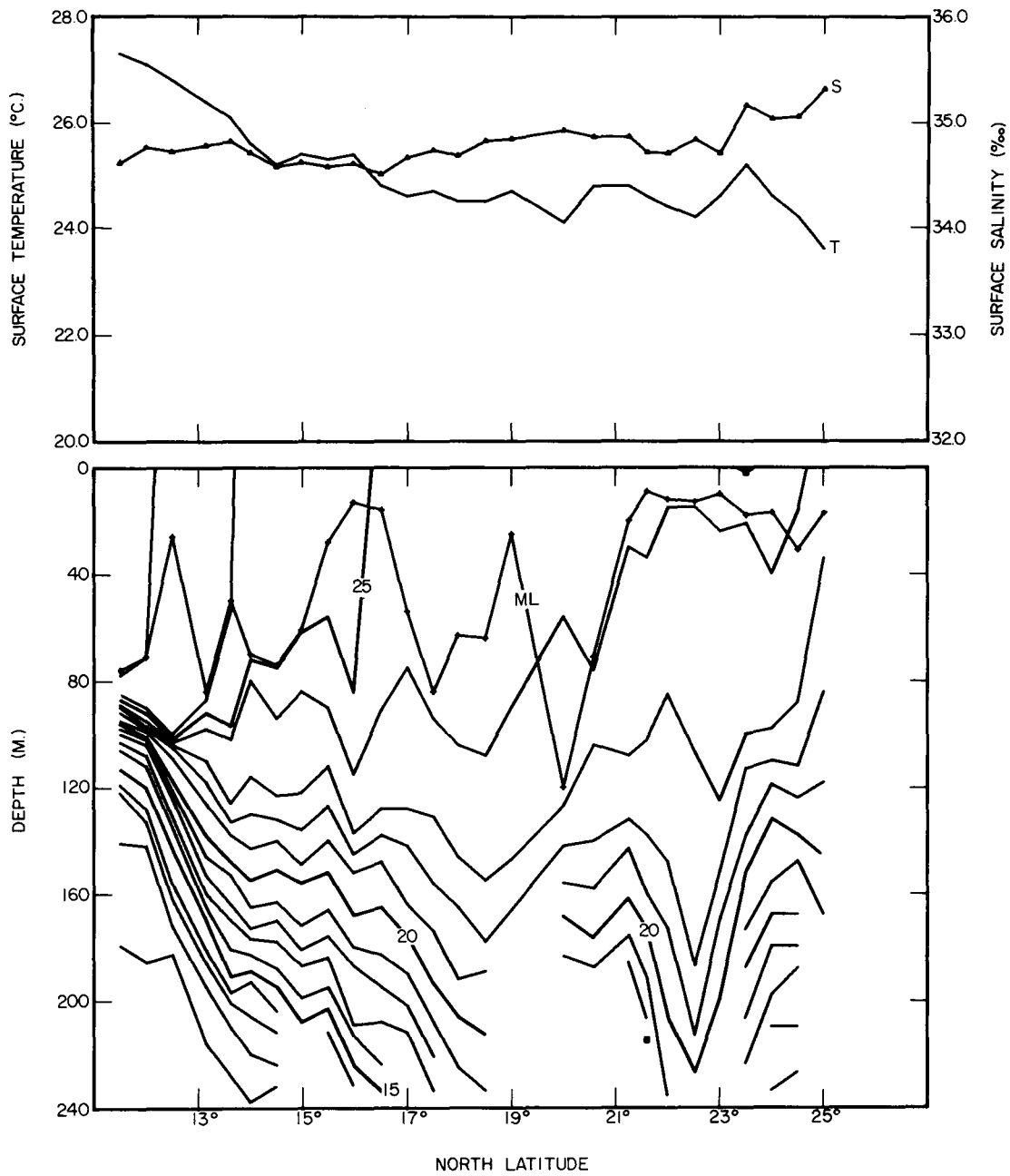


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

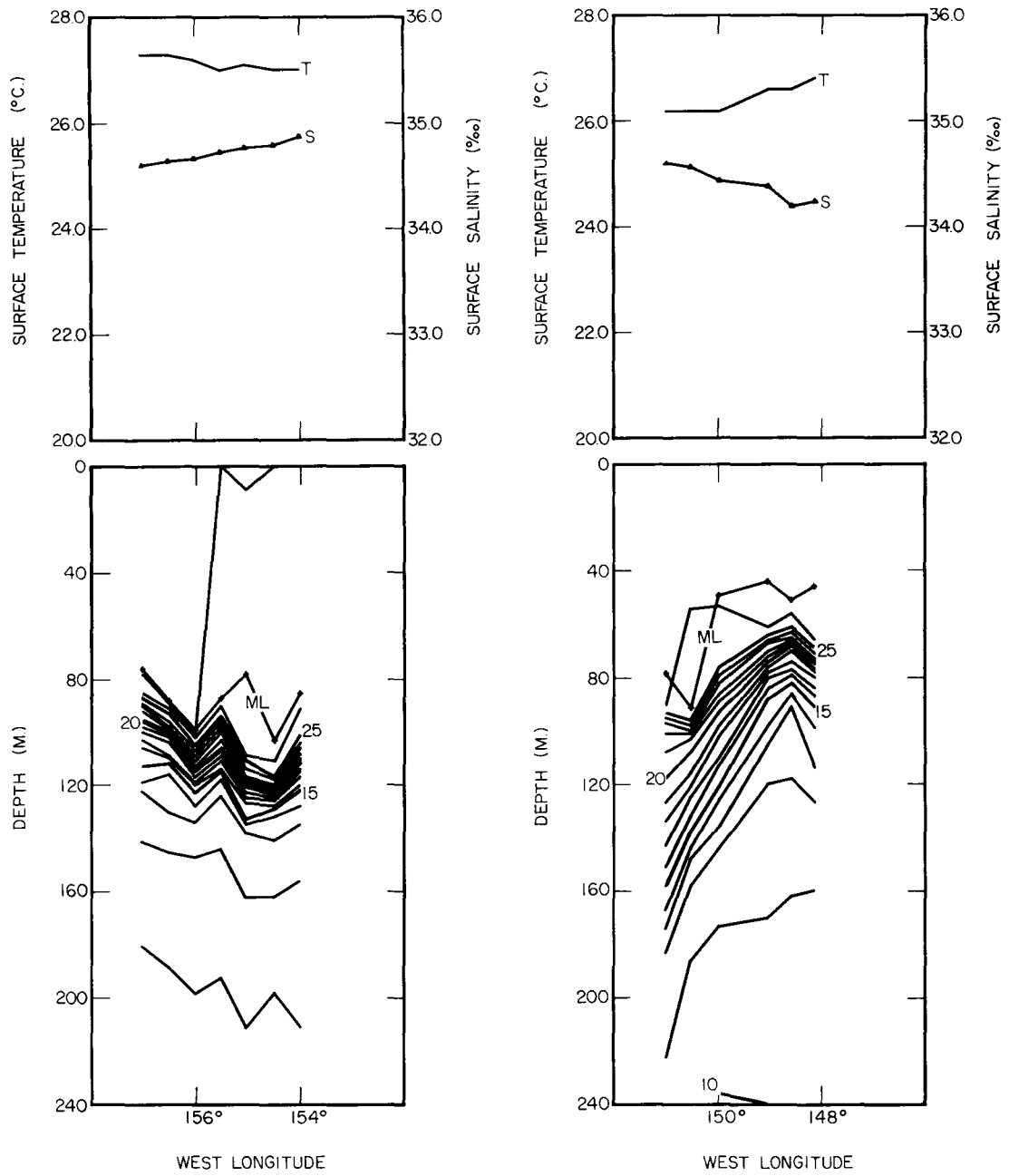


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

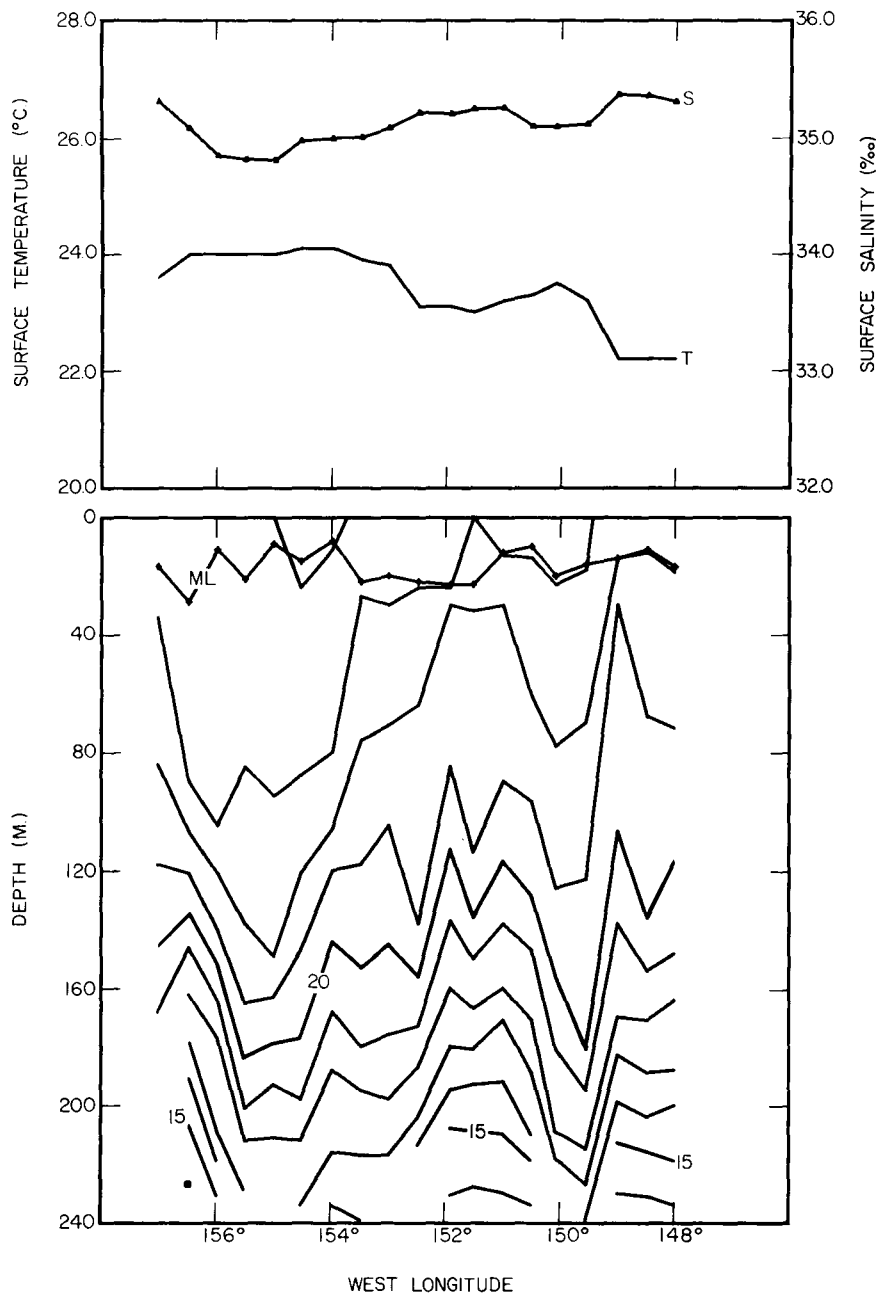


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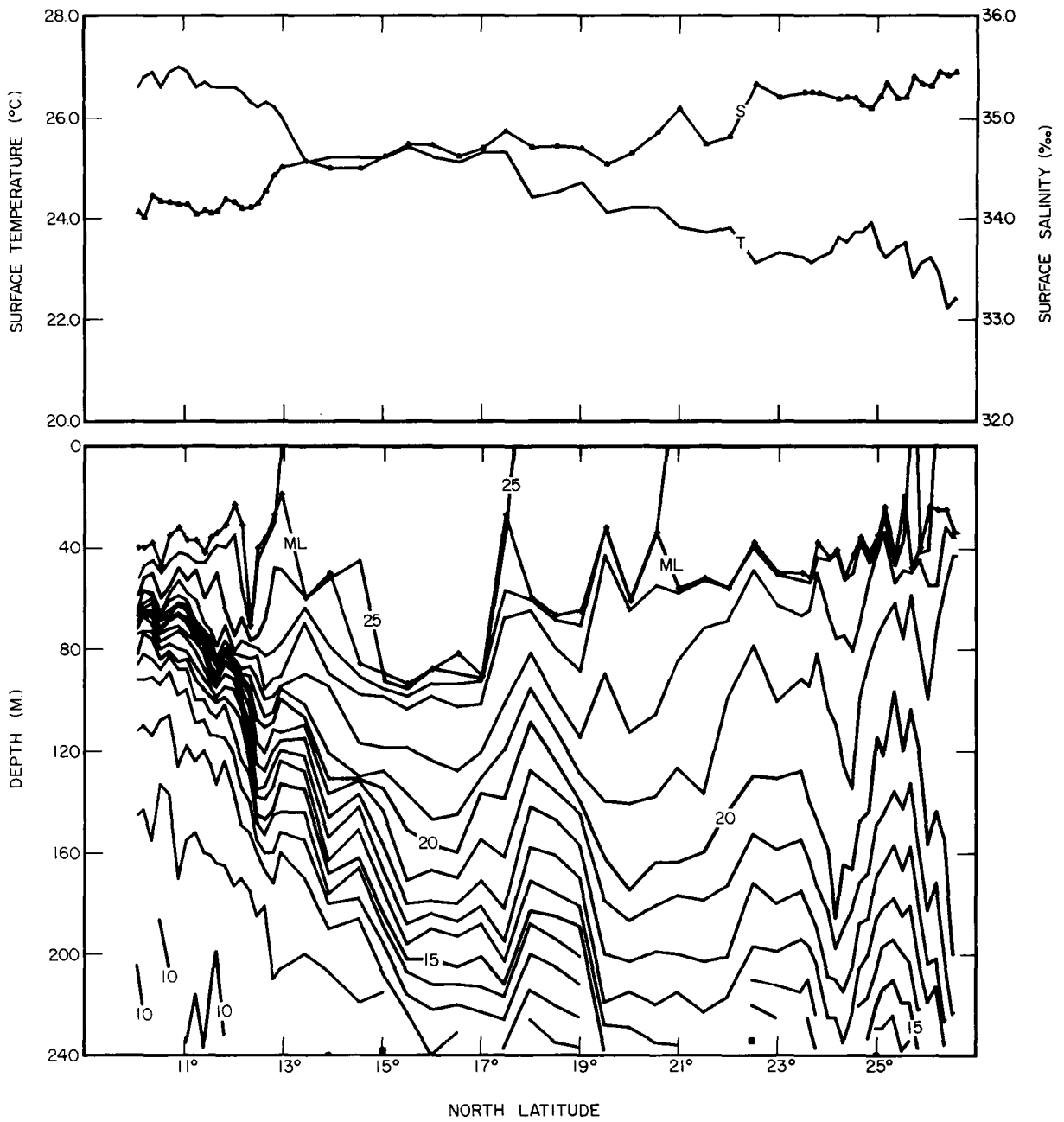


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

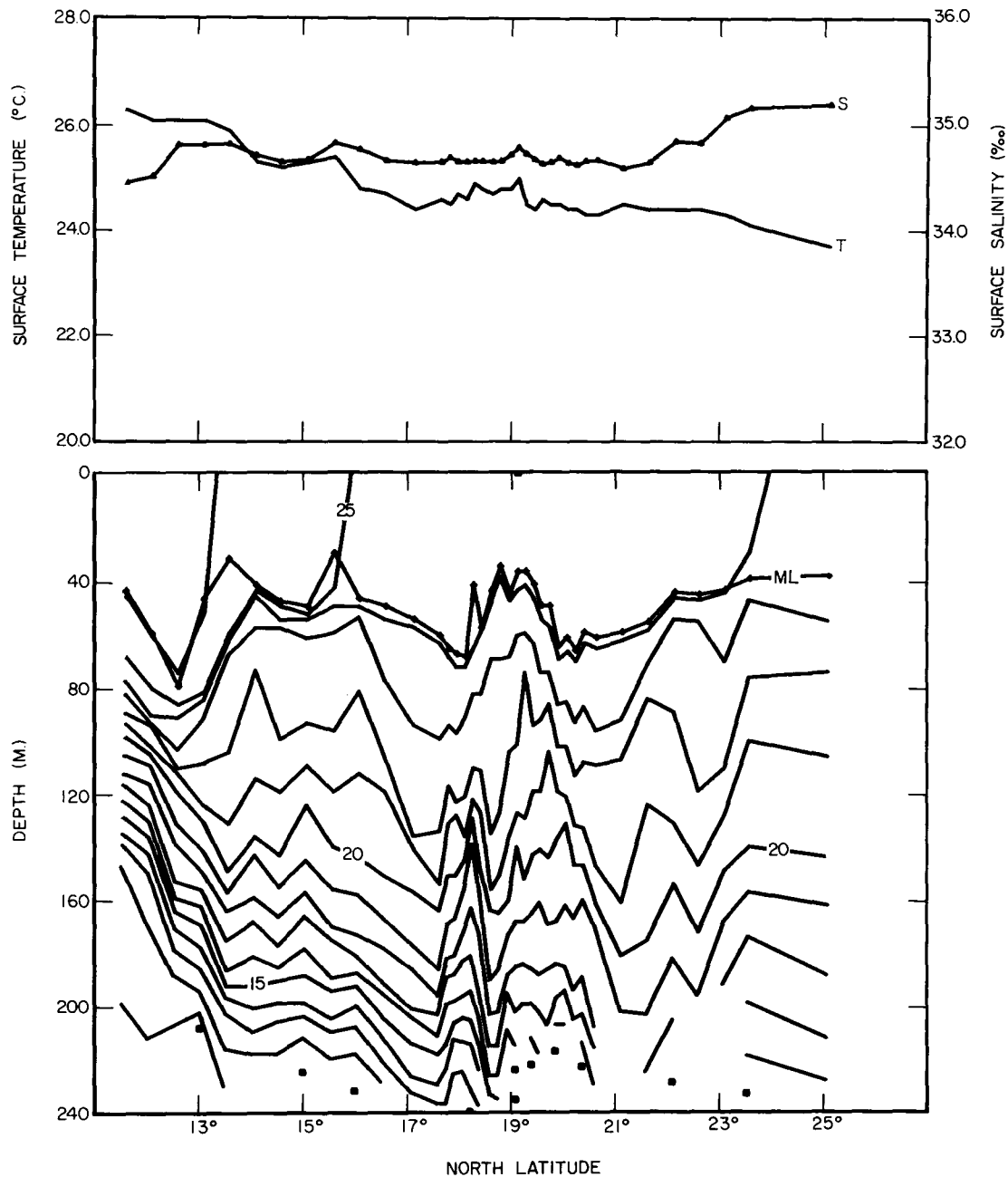


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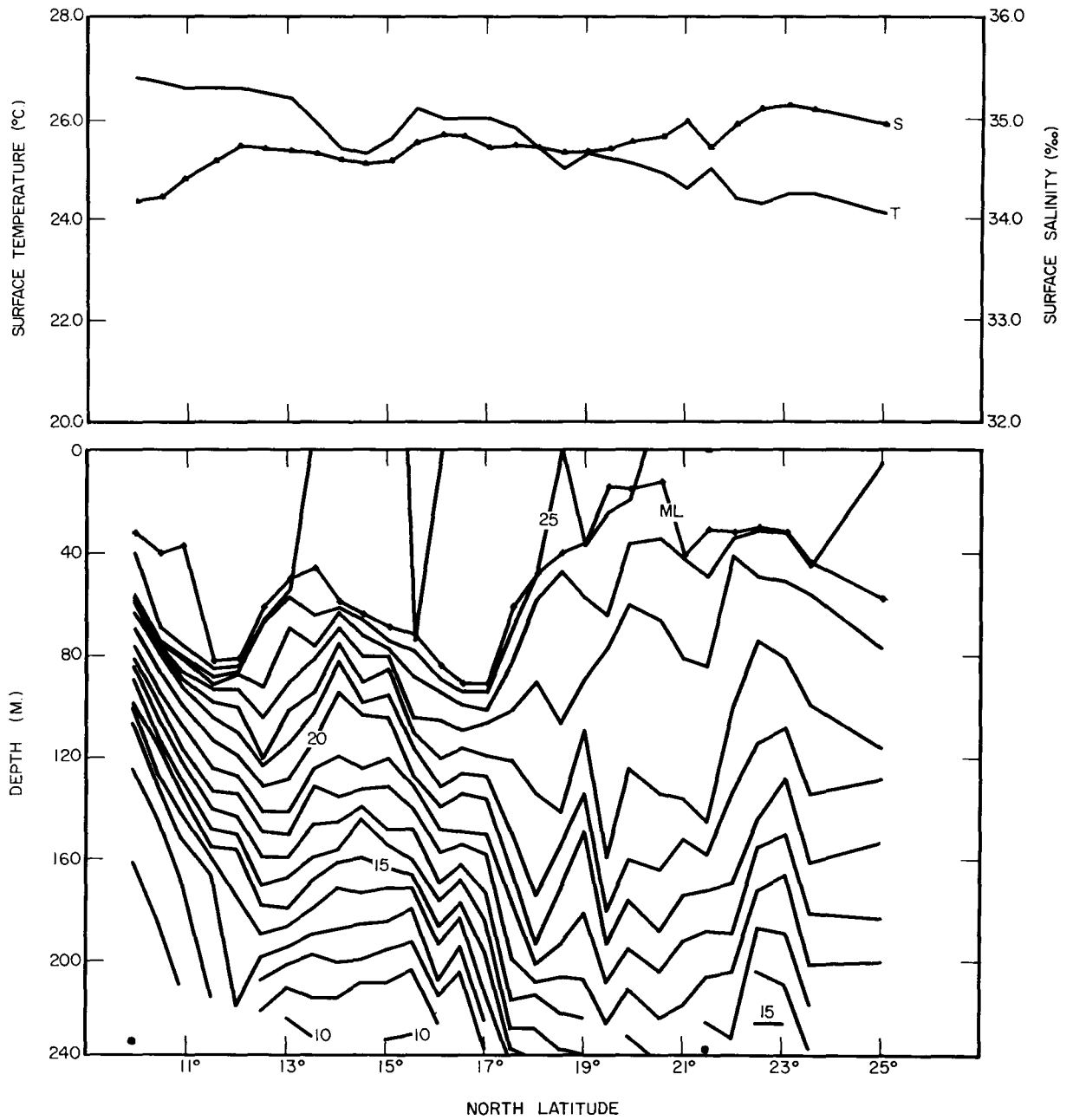


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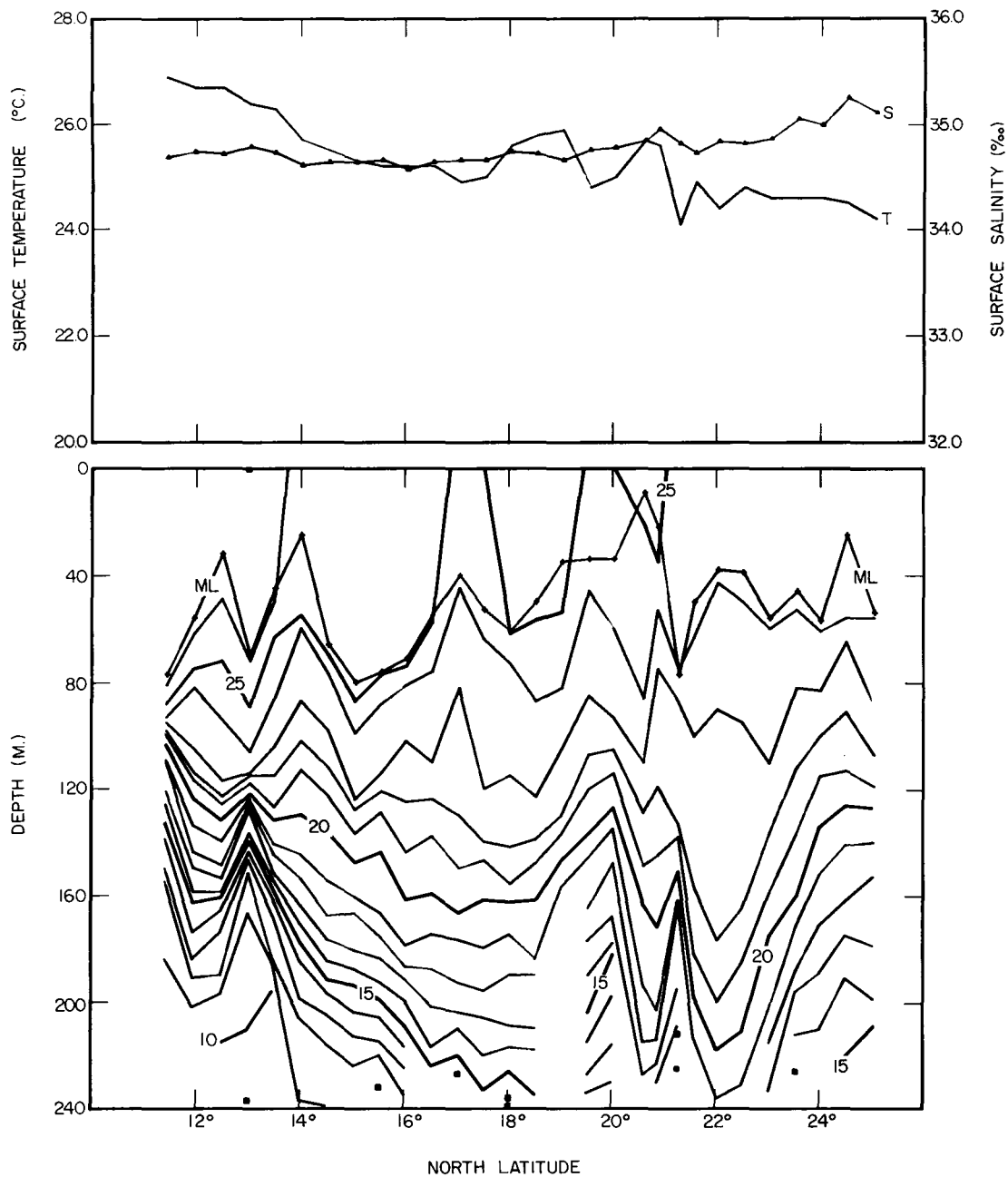


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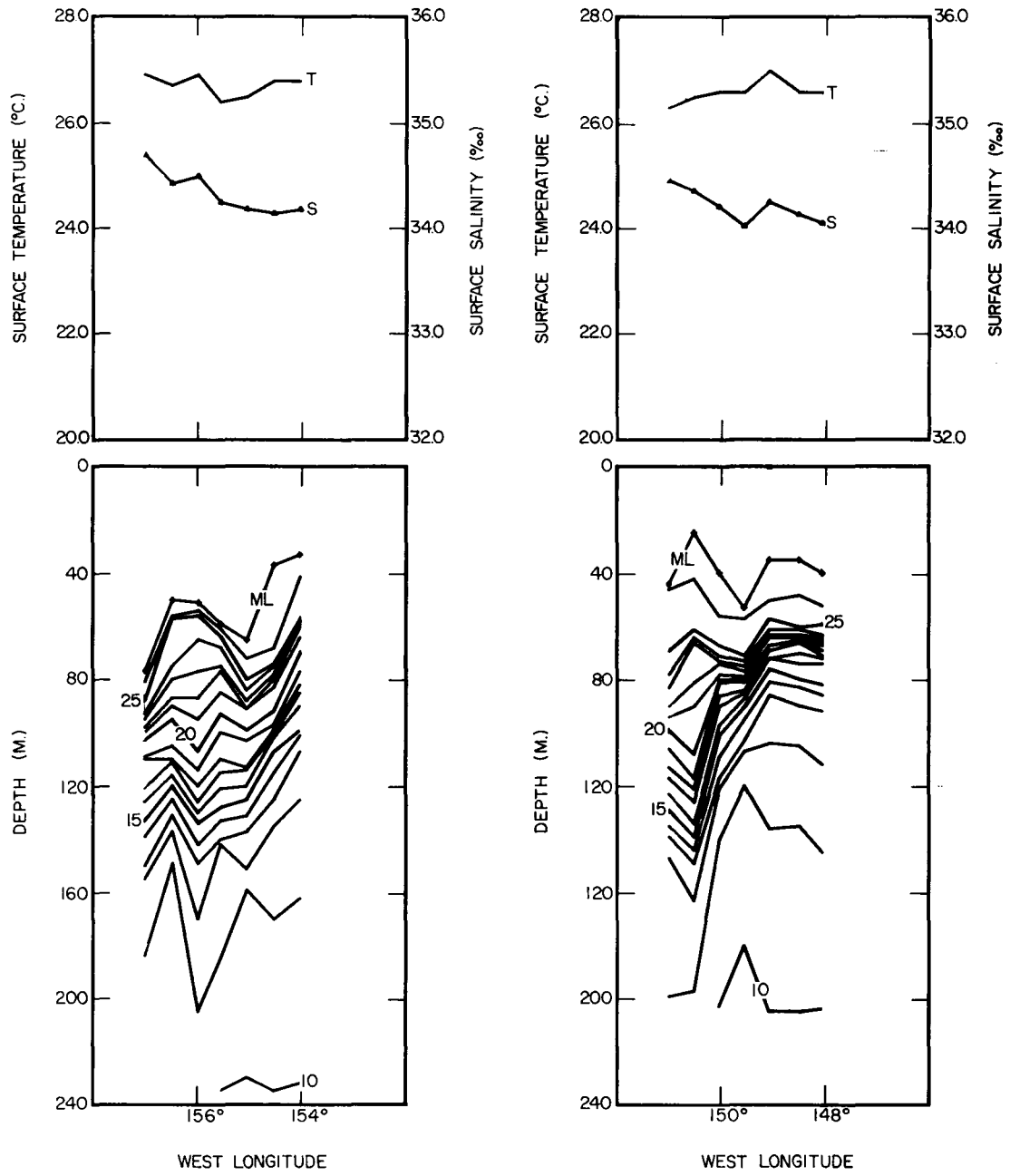


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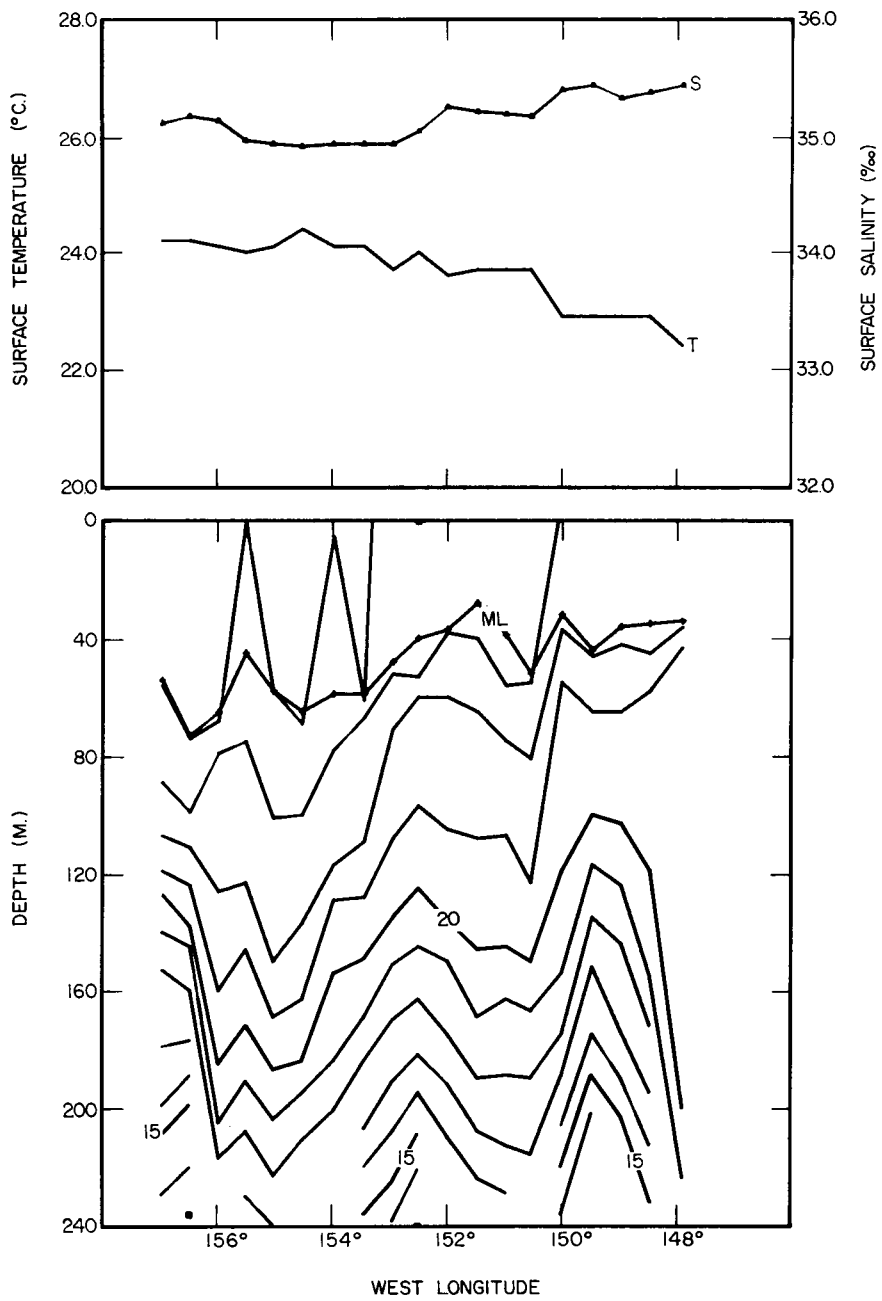


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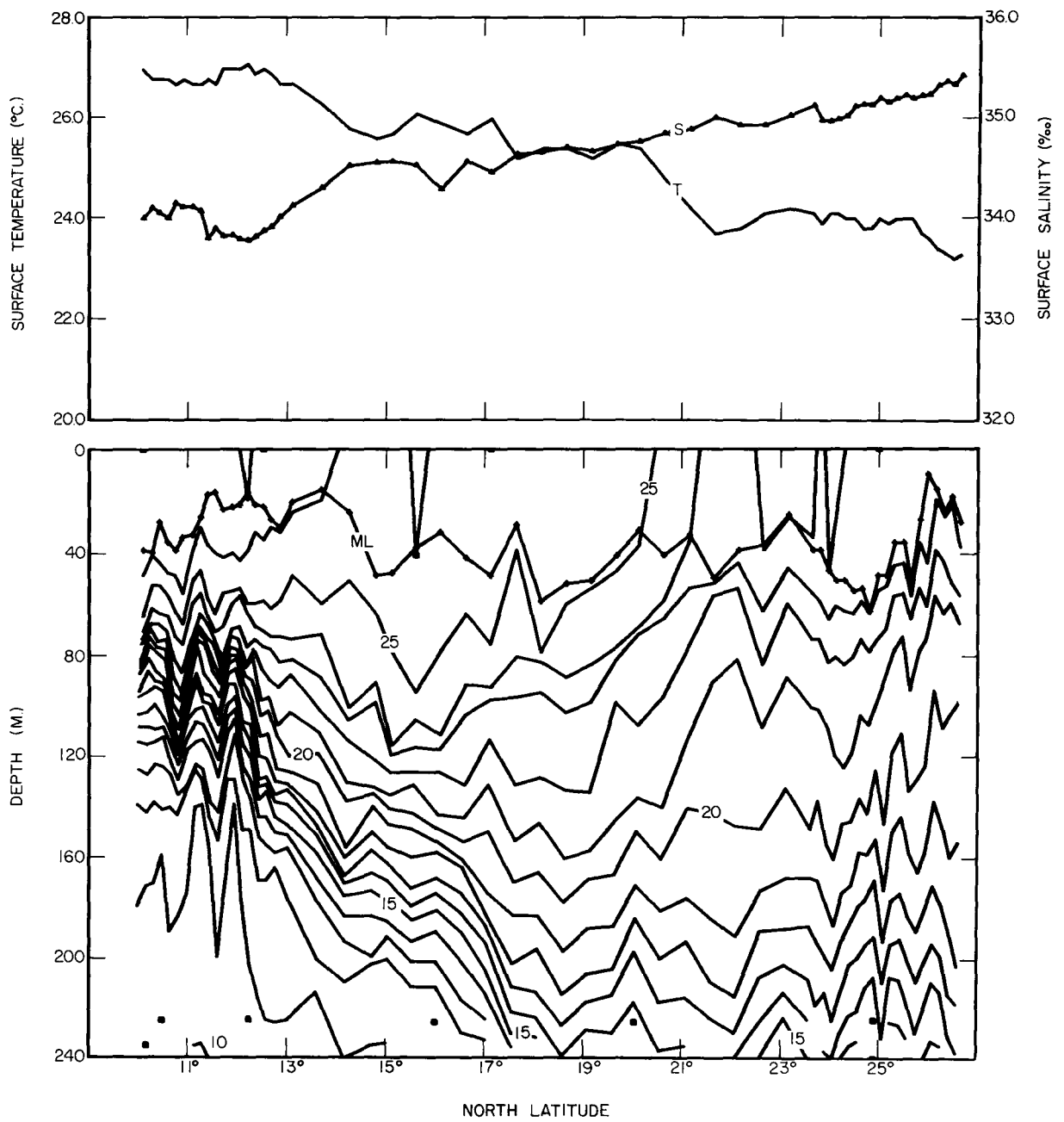


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

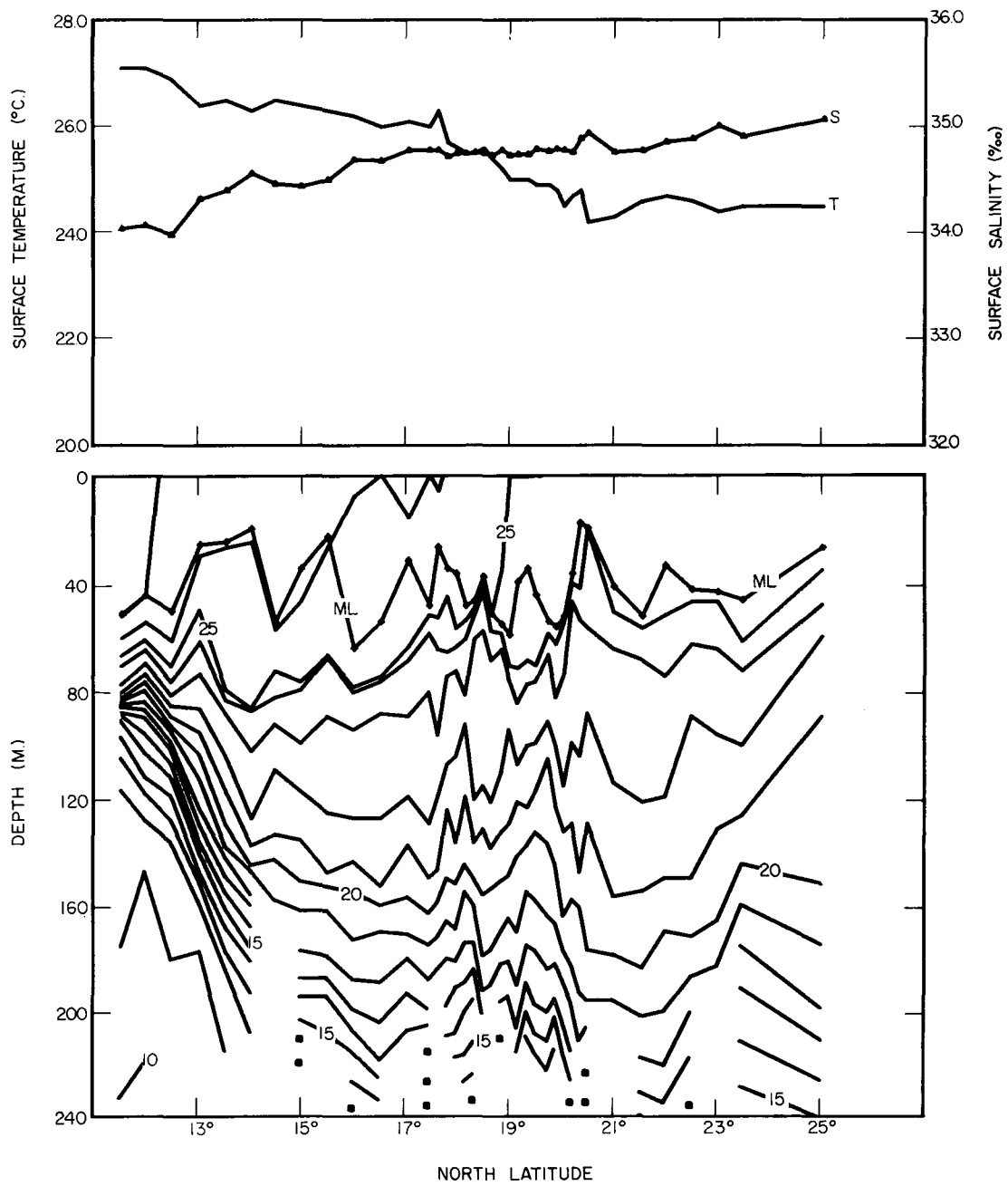


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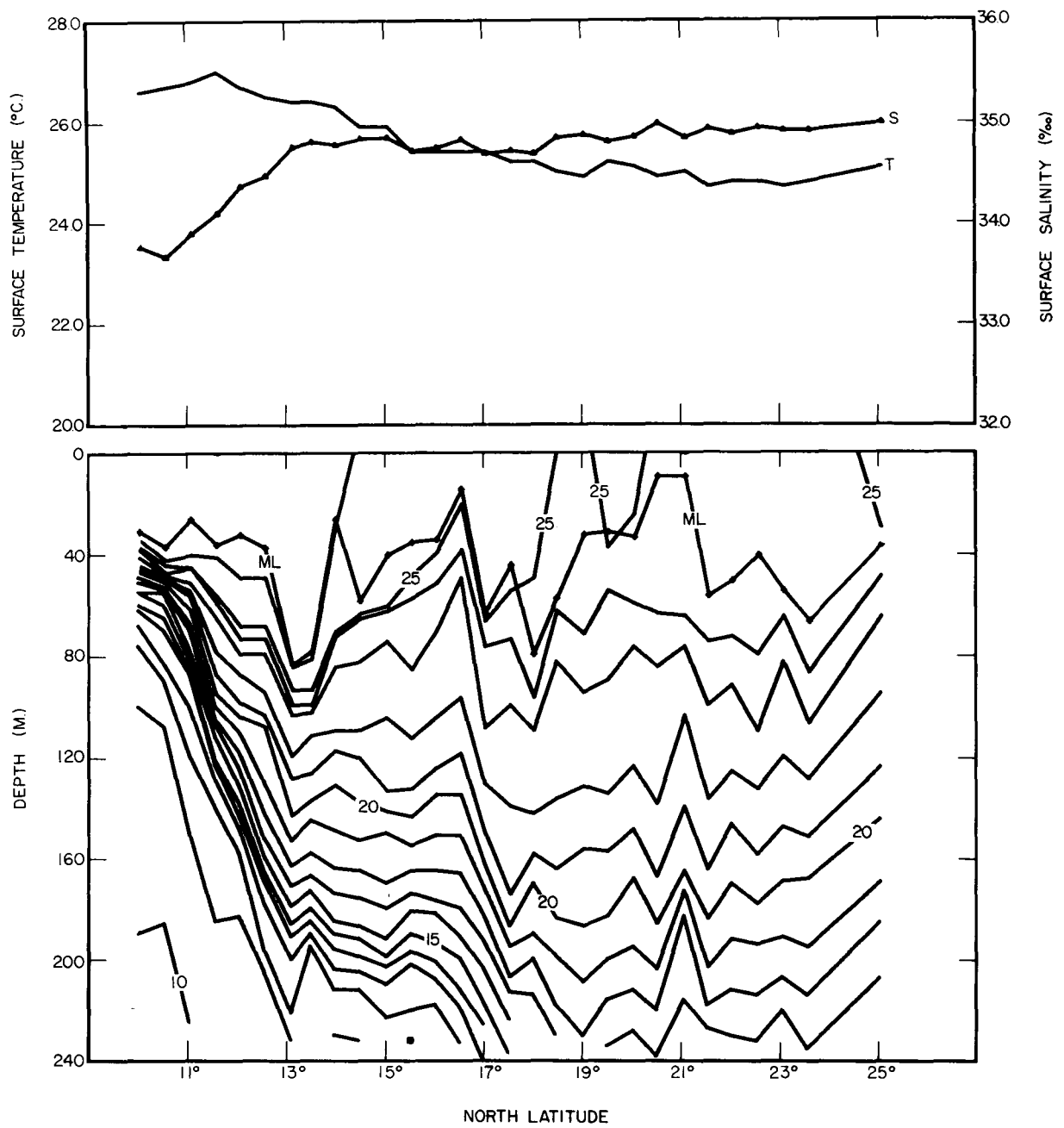


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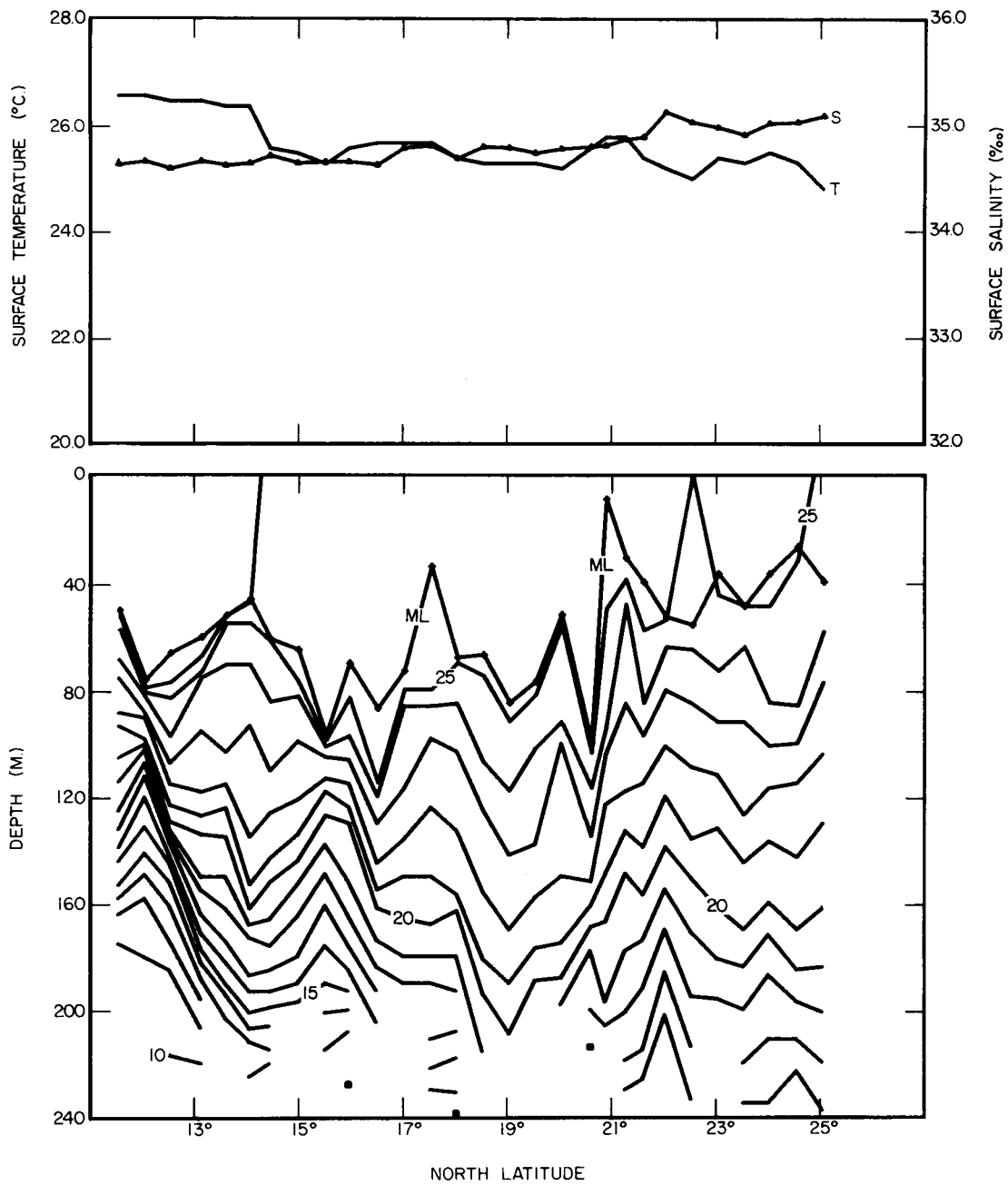


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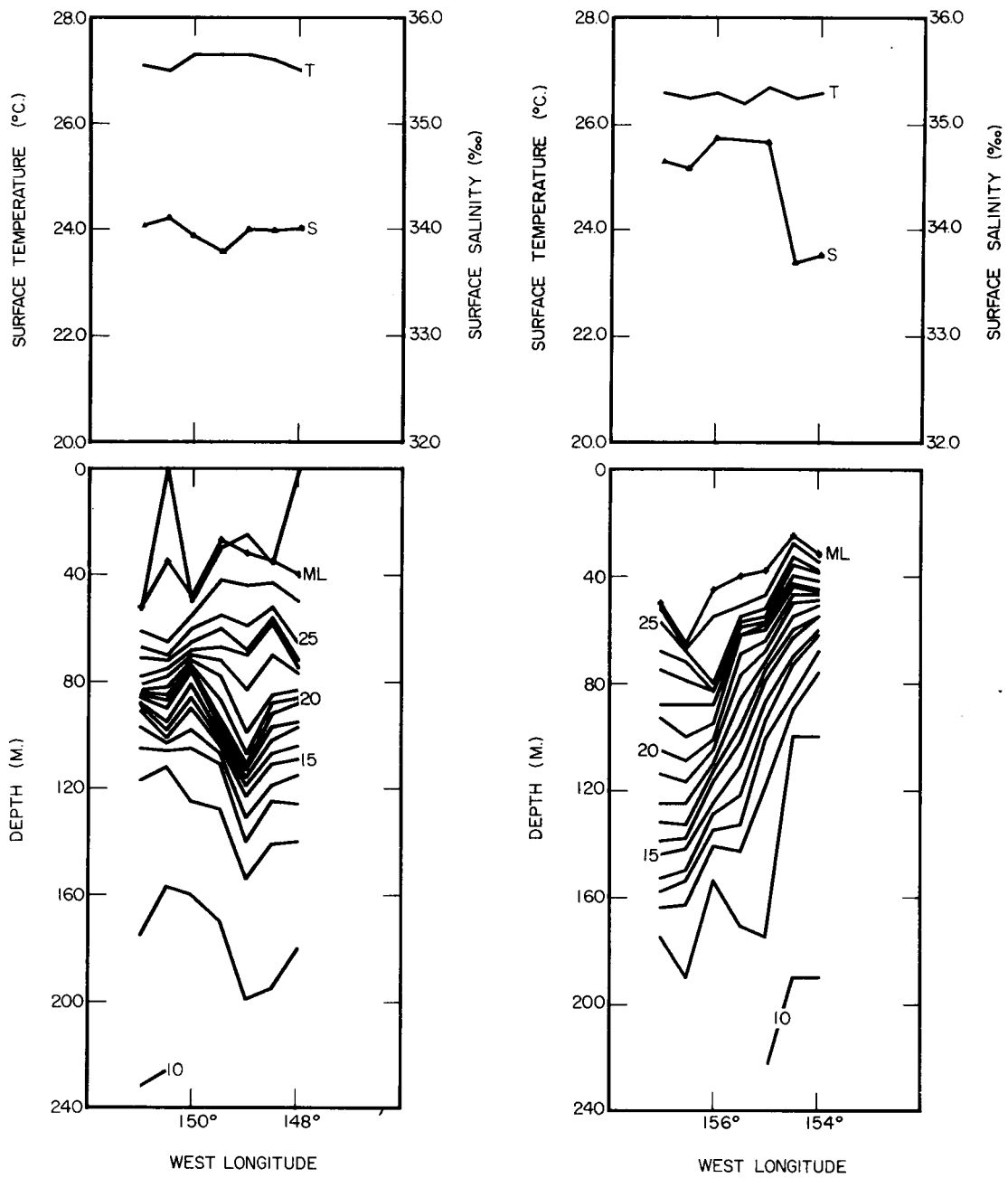


Figure 18.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

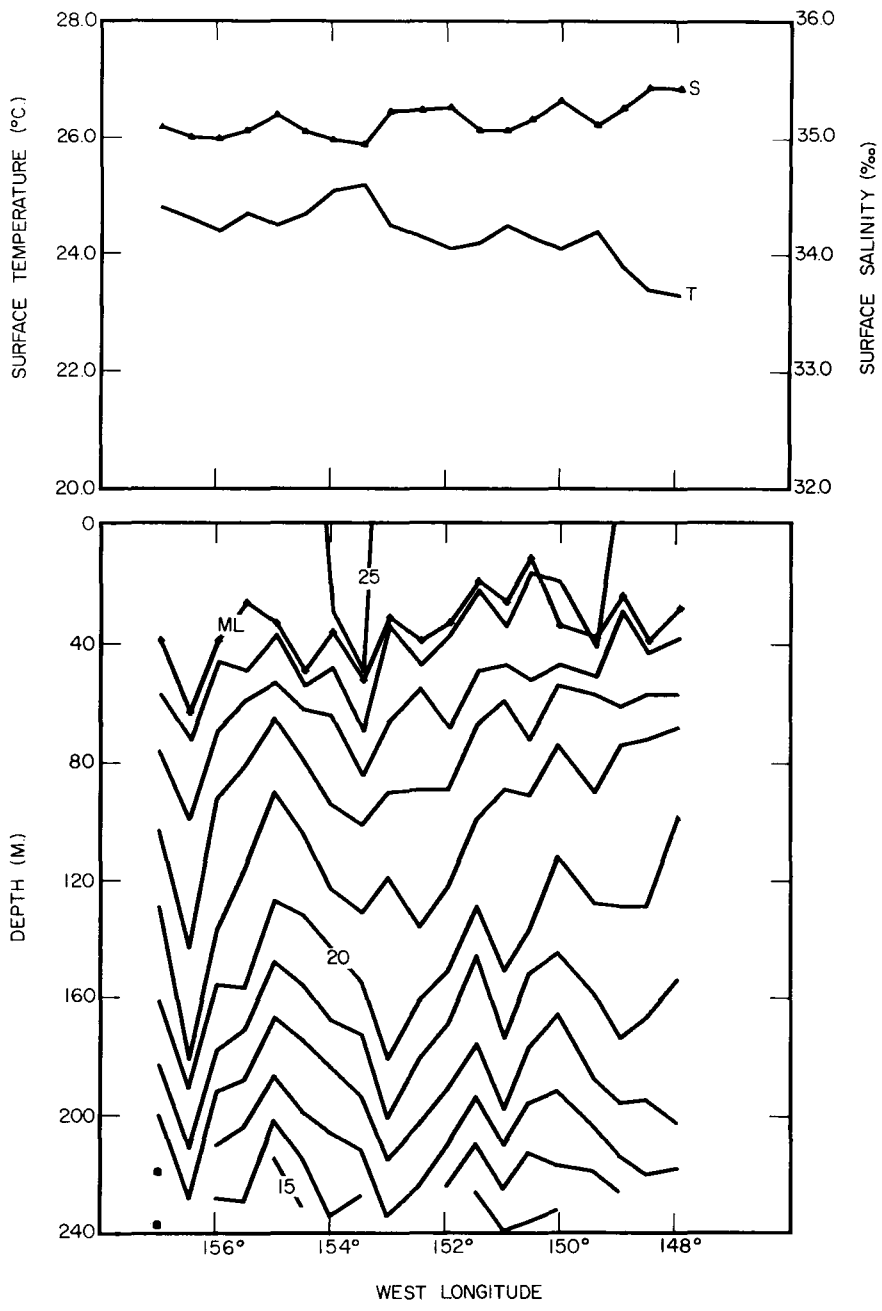


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

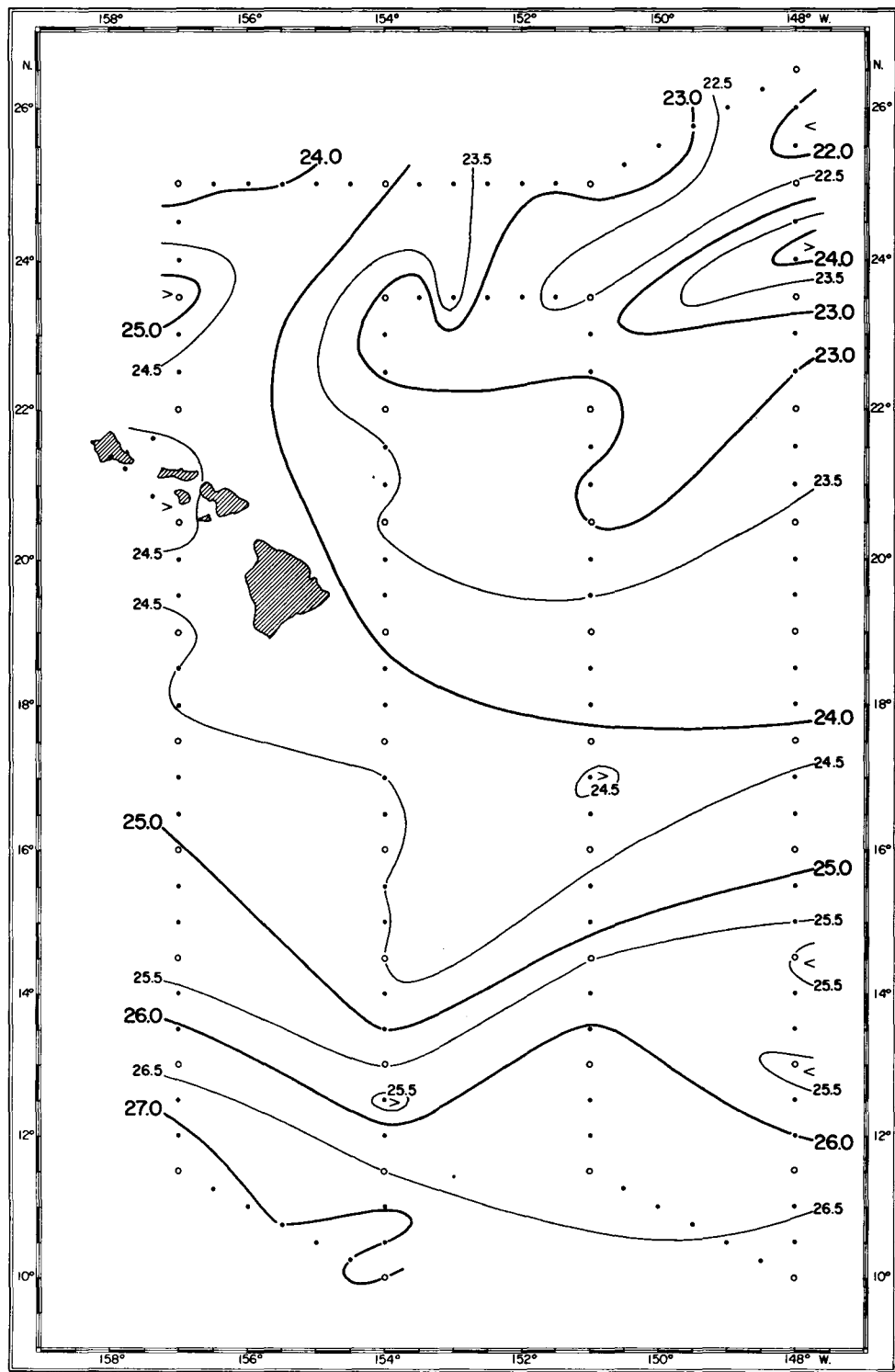


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 4.

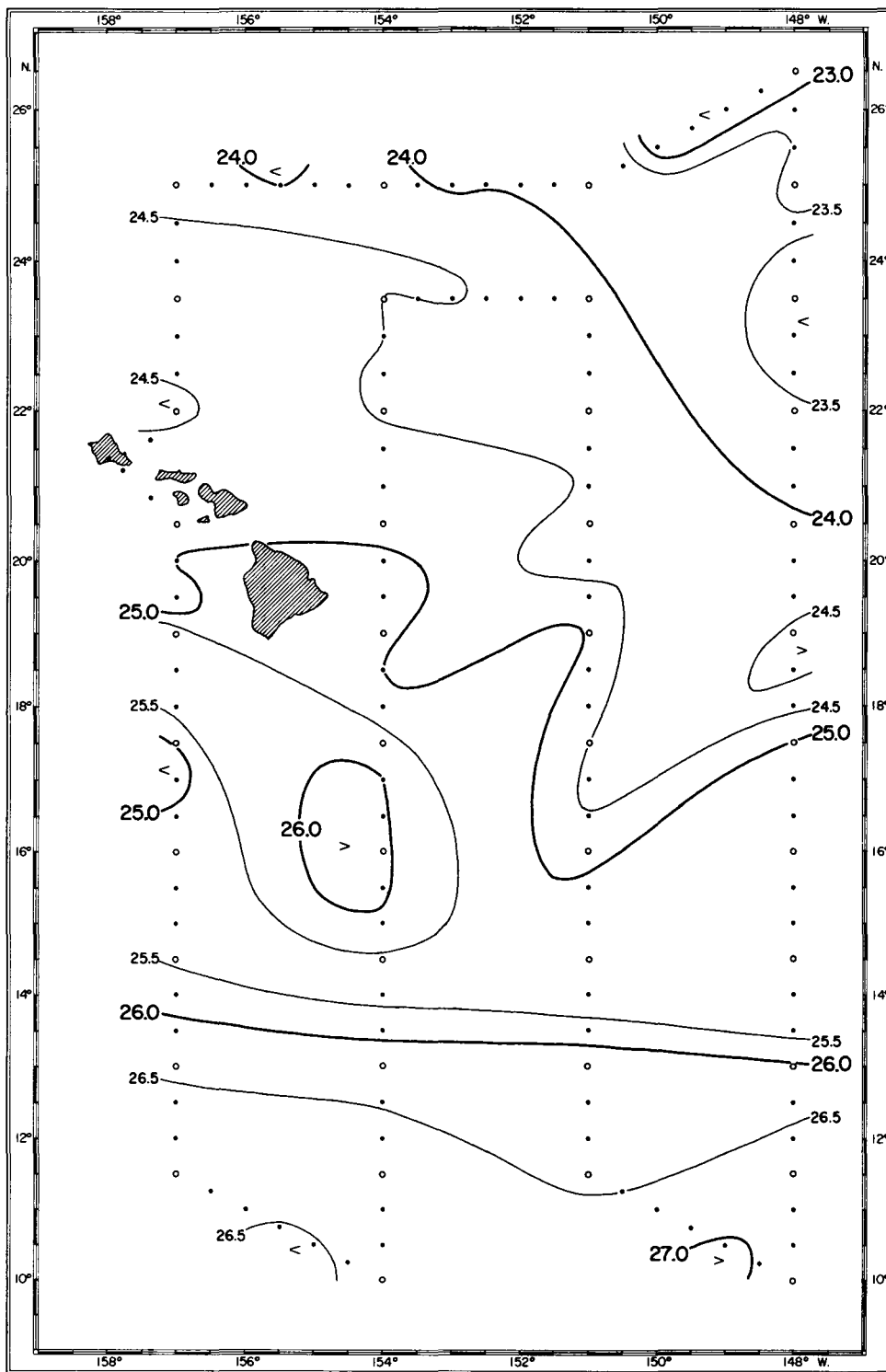


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 5.

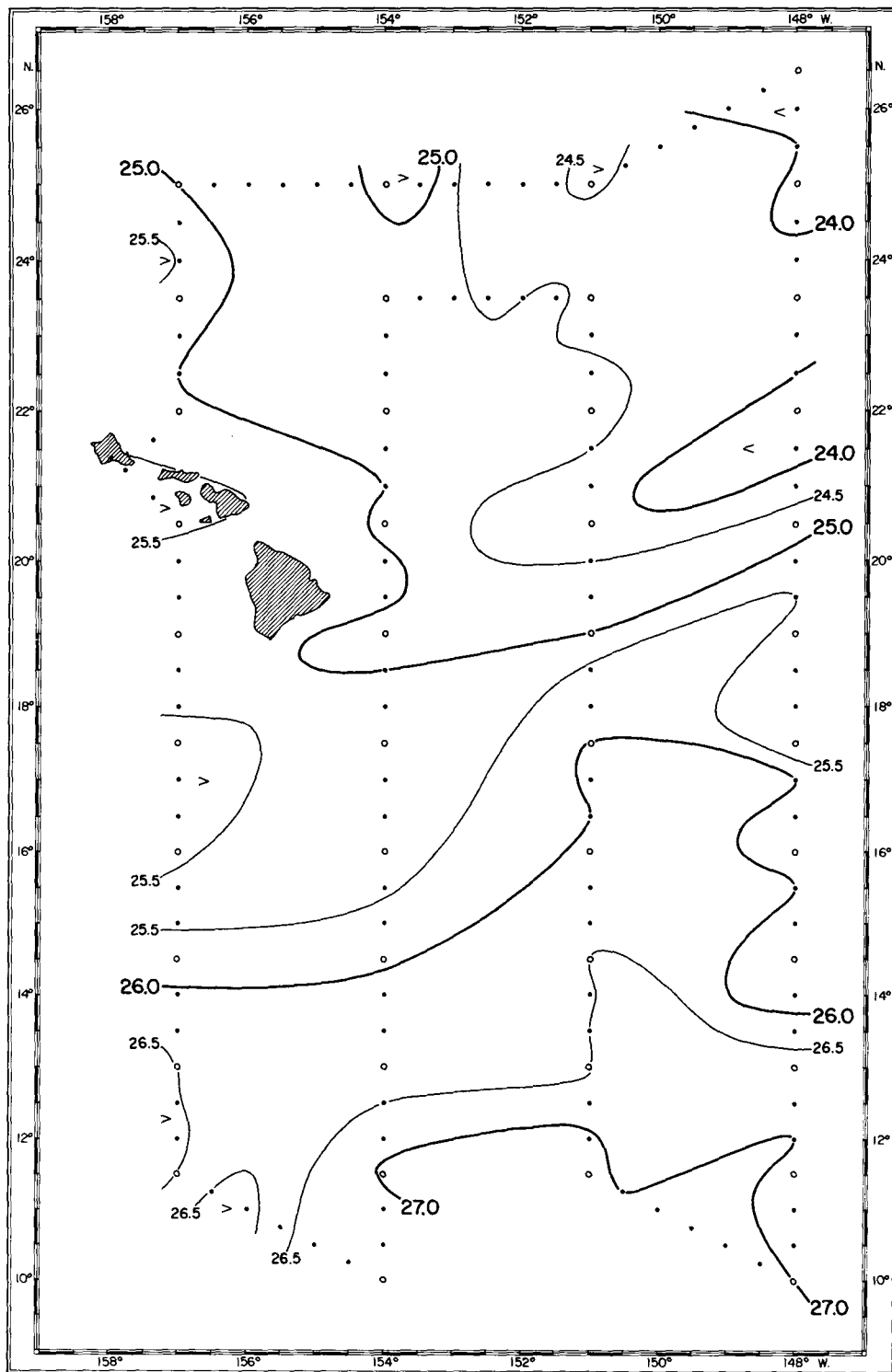


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 6.

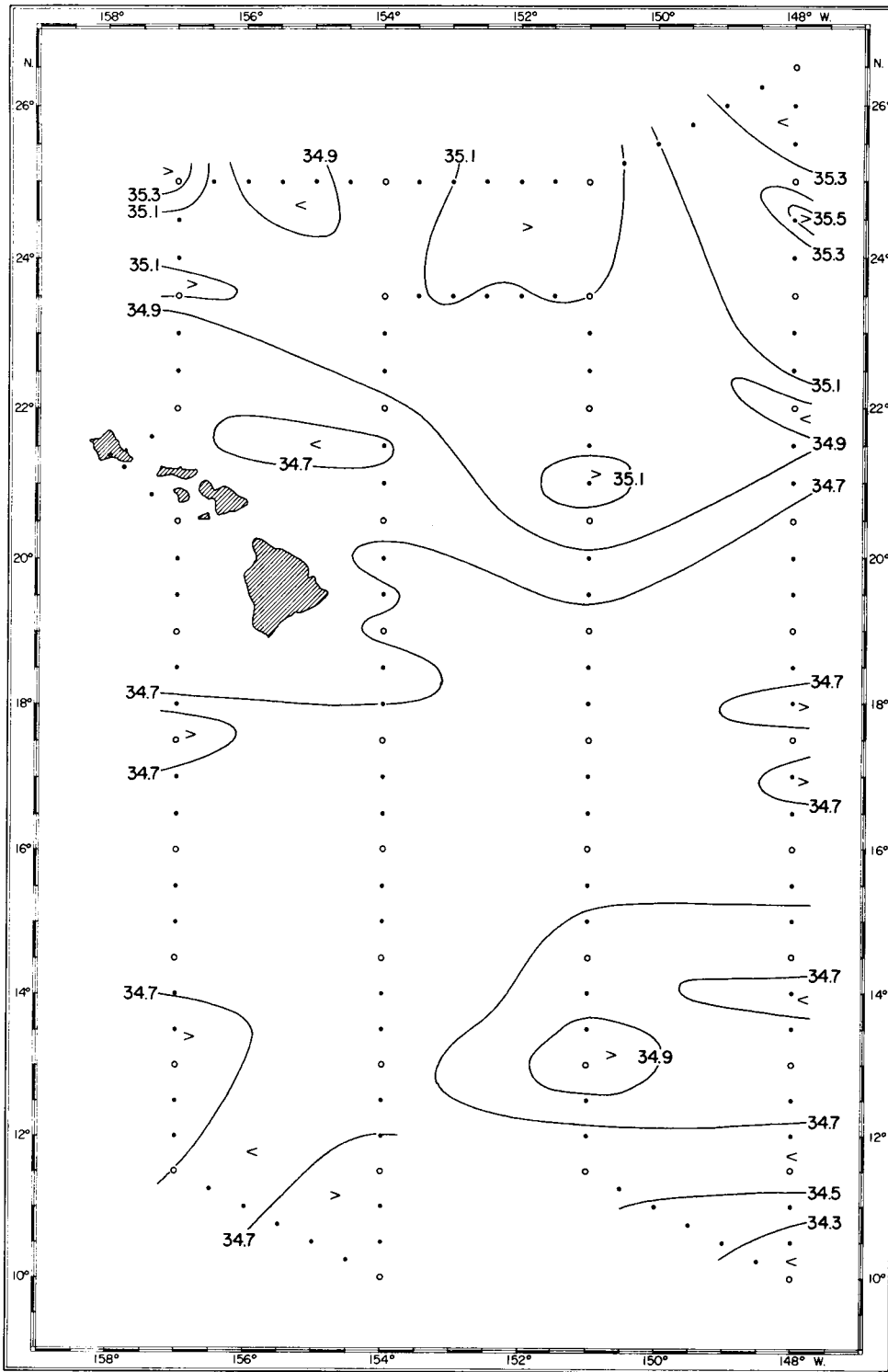


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 4.

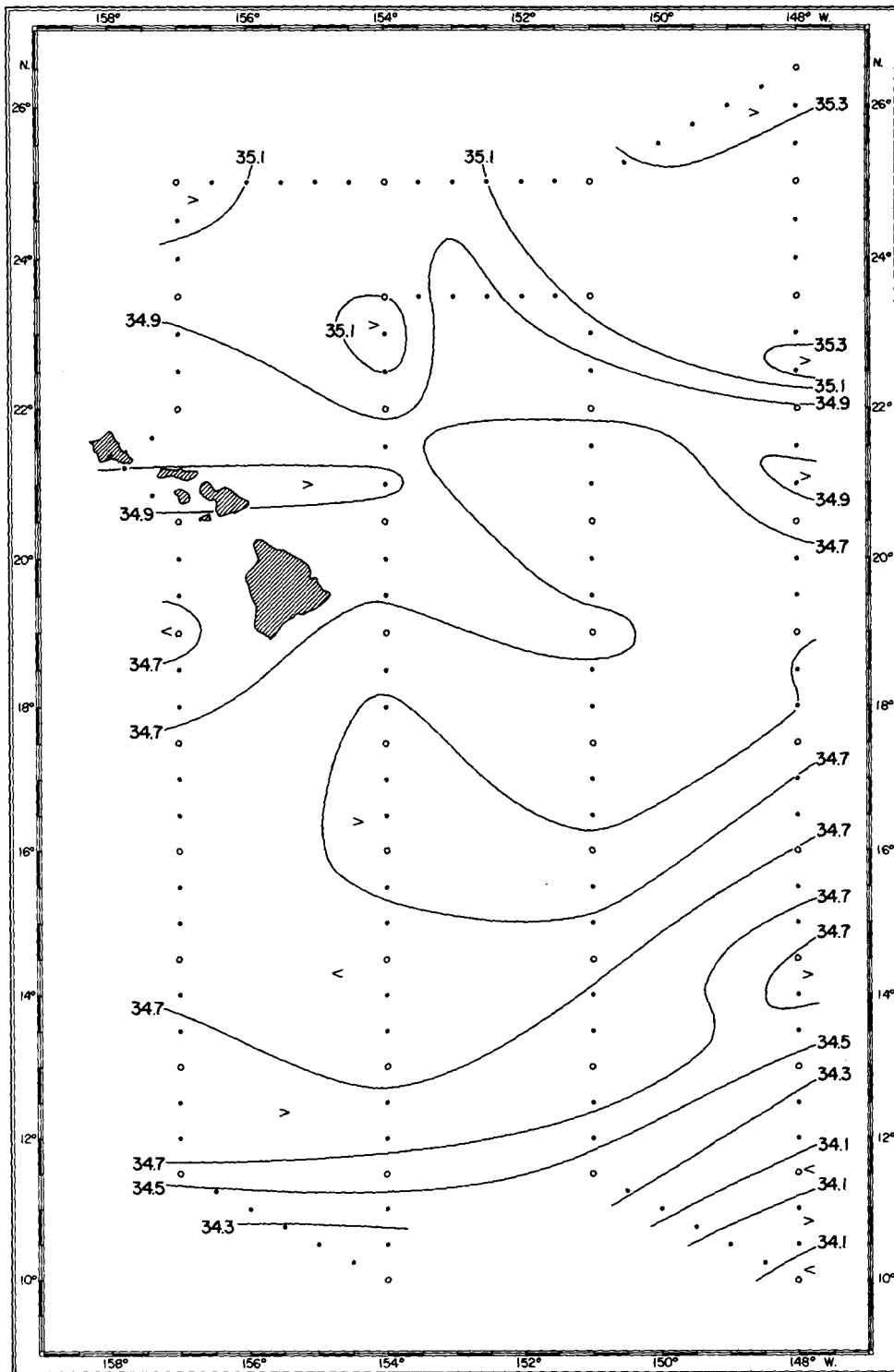


Figure 24.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 5.

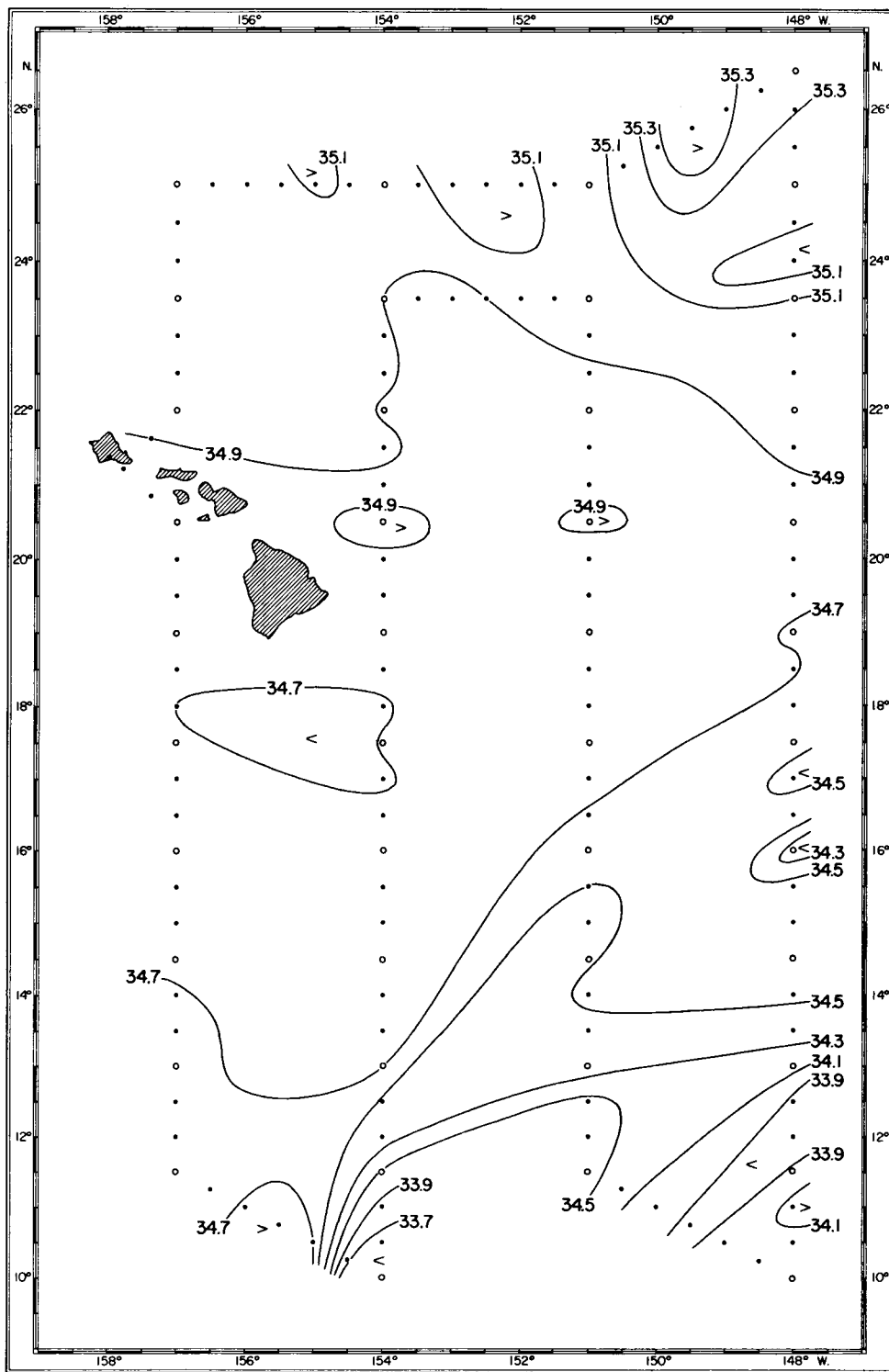


Figure 25.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 6.

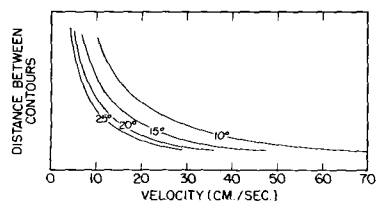
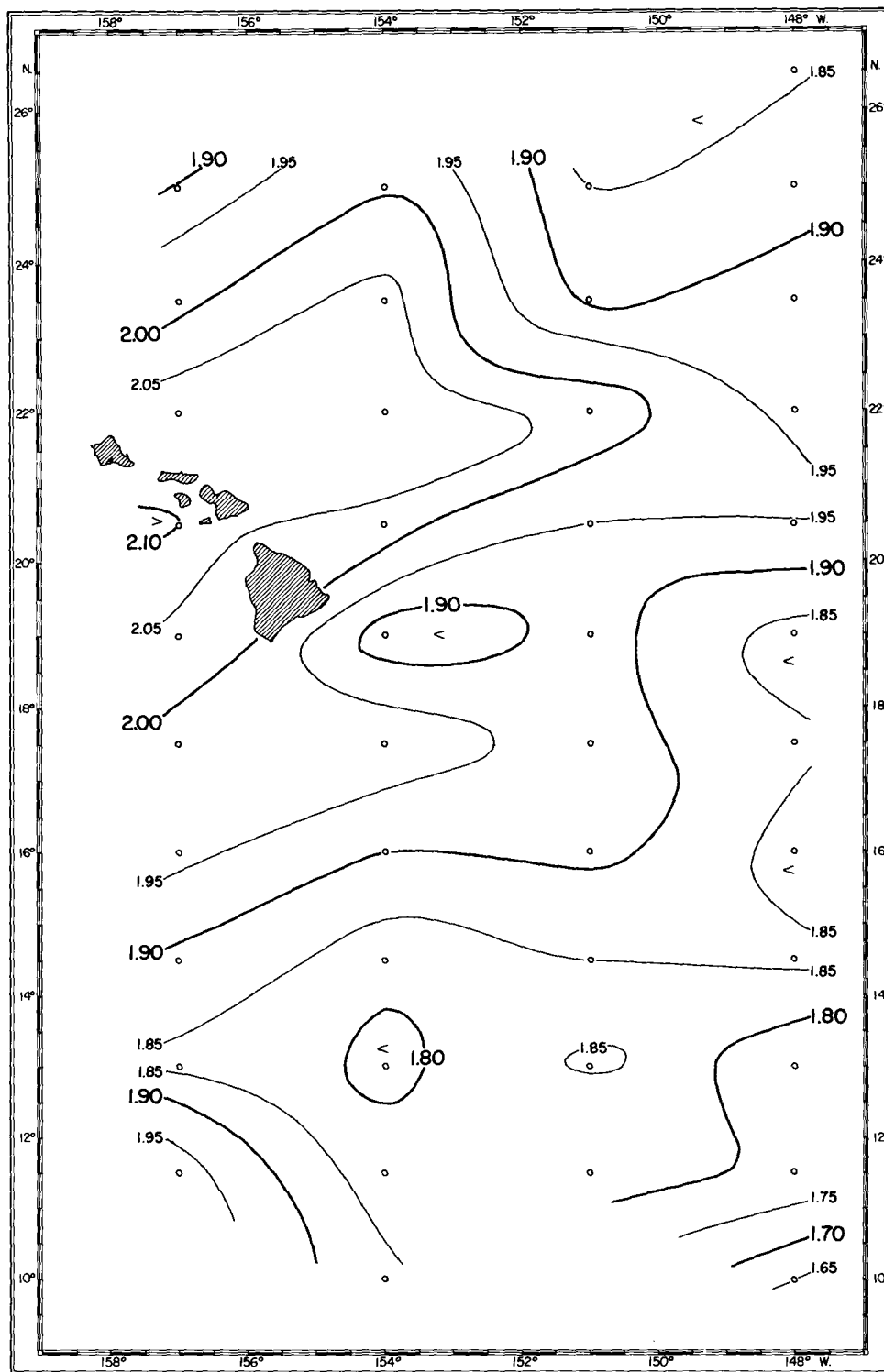


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 4.

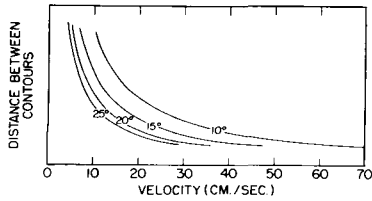
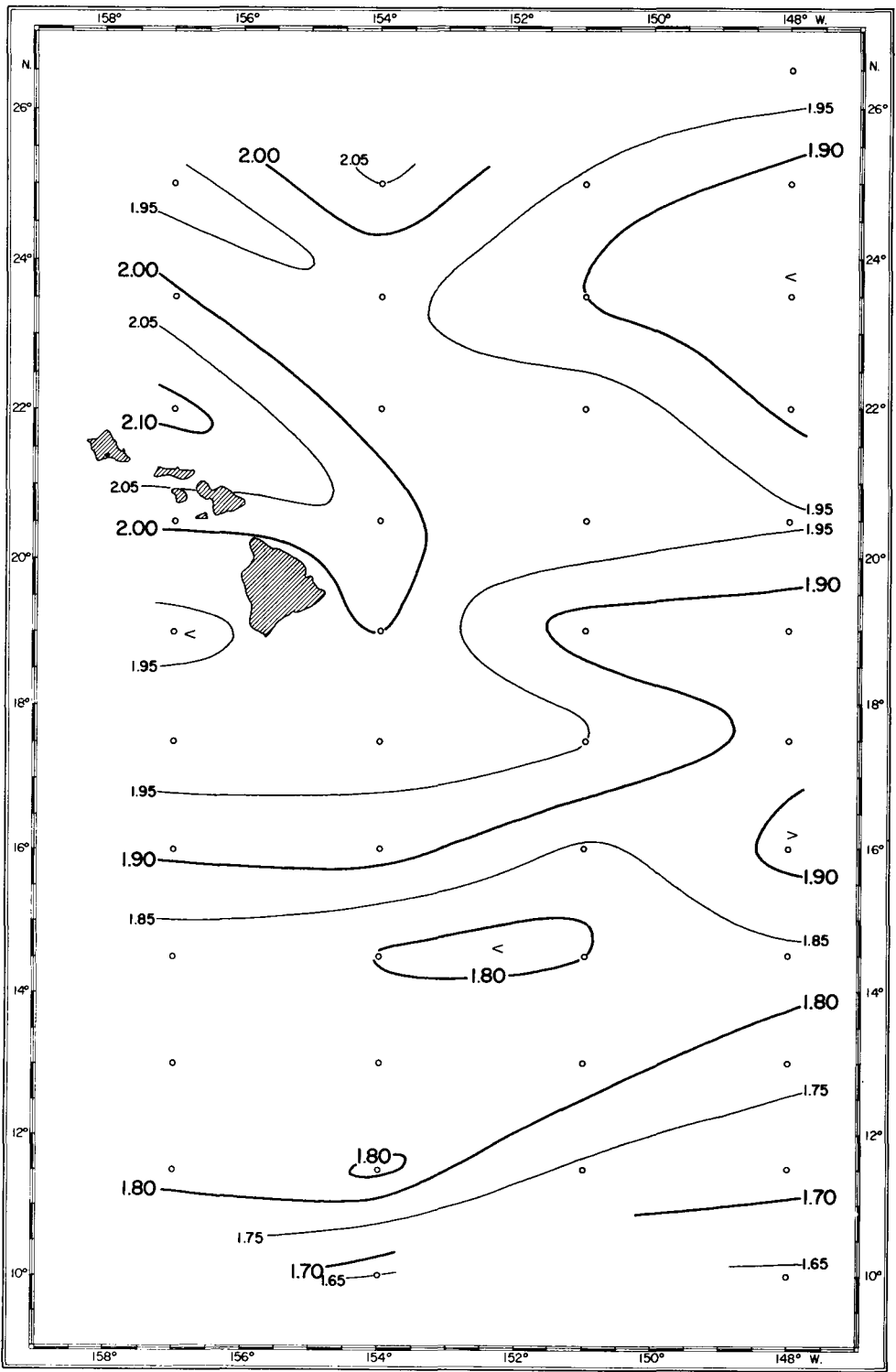


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 5.

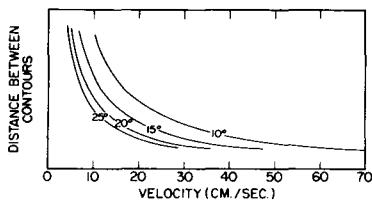
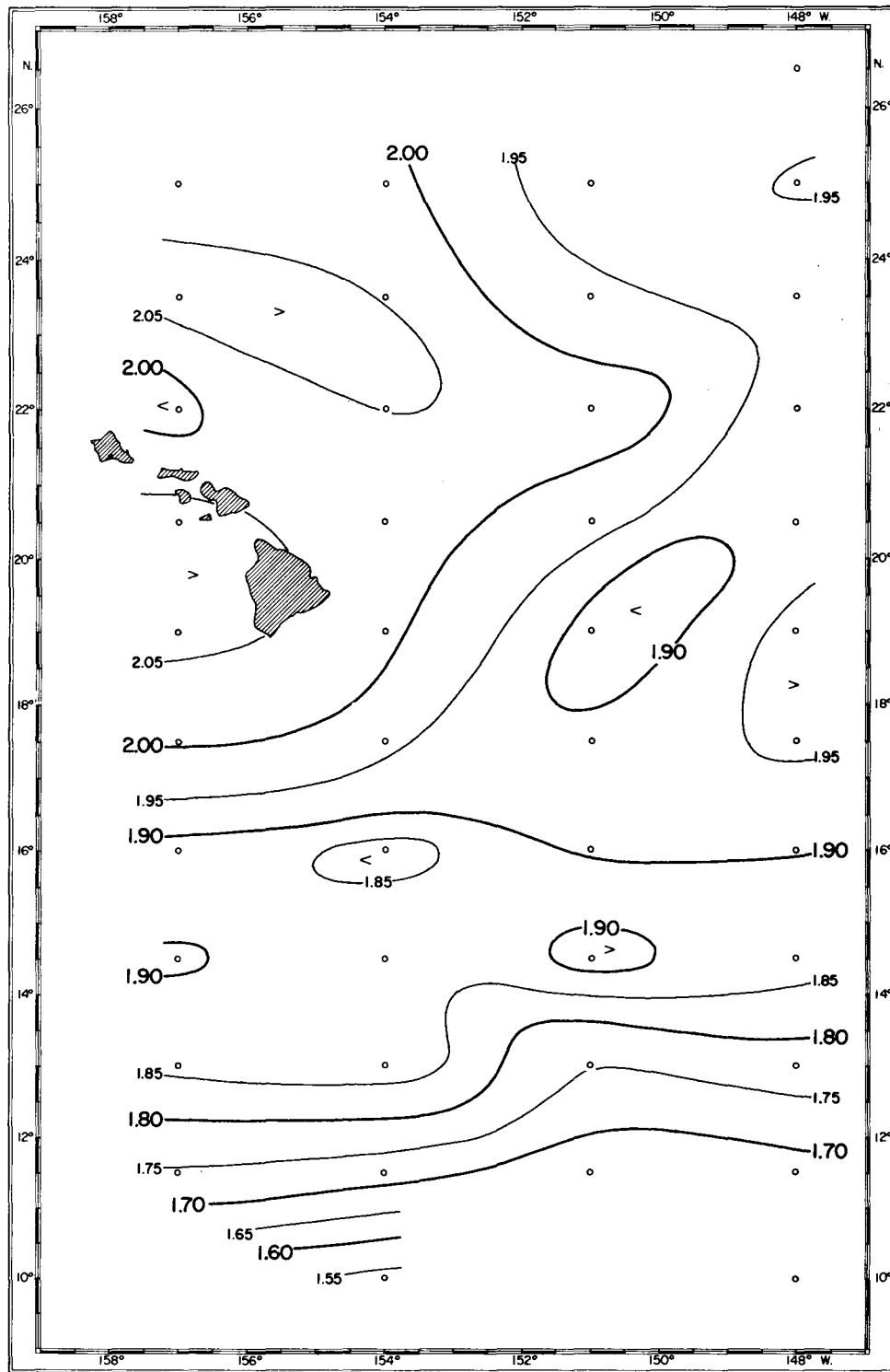


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 6.

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 $\sigma\text{-t}$; 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 4

ORIGINAL DATA						DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.7		4, STATION WET BULB 19.8		1, 20-35N LAT, 157-15W LONG, MAY 17, 1964, 2400 G.C.T.		WIND SPEED 03, DIR. 08		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 7, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.12	34.84			23.21	467.8	0.	25.12	34.84	23.21	467.8	0.000			
9.Δ	24.80	34.85			23.31	458.2	10.	24.79	34.85	23.31	457.8	0.047			
30.	24.75	34.85			23.32	457.6	20.	24.71	34.85	23.34	455.9	0.093			
49.	24.71	34.84			23.33	457.9	30.	24.75	34.85	23.32	457.6	0.139			
73.	24.34	35.10			23.64	429.5	50.	24.70	34.85	23.34	457.0	0.231			
96.	23.43	35.09			23.90	405.4	75.	24.26	35.10	23.66	427.1	0.342			
119.	23.00	35.10			24.03	393.7	100.	23.38	35.09	23.91	404.1	0.447			
143.	21.27	35.08			24.50	349.5	125.	21.01	35.08	24.57	343.3	0.635			
166.	20.29	35.04			24.73	327.9	150.	17.20	34.76	25.30	274.4	0.791			
180.	18.98	34.95			25.01	302.2	175.	13.68	34.40	25.81	226.6	0.917			
211.	16.30	34.65			25.43	262.5	200.	11.38	34.24	26.13	195.8	1.024			
236.	14.60	34.47			25.67	239.7	225.	8.83	34.15	26.50	161.5	1.204			
259.	13.13	34.36			25.89	218.8	250.	6.94	34.18	26.80	133.2	1.353			
282.	12.03	34.28			26.04	204.3	275.	5.74	34.26	27.02	112.1	1.477			
374.	9.42*	34.16			26.41	169.8	300.	5.21	34.36	27.17	99.1	1.583			
468.	7.50	34.16			26.71	141.9	325.	4.85	34.44	27.27	89.9	1.679			
561.	6.05	34.22			26.95	118.7	350.	4.11	34.51	27.40	77.7	1.848			
748.	5.10	34.41			27.22	94.6	375.	3.53	34.55	27.50	69.1	1.997			
935.	4.29	34.49			27.37	80.6									
1122.	3.81	34.53			27.45	73.4									
1406.	3.04	34.57			27.56	63.3									

ORIGINAL DATA						DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.2		4, STATION WET BULB 21.5		2, 19- ON LAT, 157- ON LONG, MAY 17, 1964, 1100 G.C.T.		WIND SPEED 14, DIR. 05		BAR. 17		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.64	34.72			23.26	462.6	0.	24.64	34.72	23.26	462.6	0.000			
5.	24.60	34.74			23.29	460.2	10.	24.54	34.75	23.31	457.9	0.046			
51.	24.10	34.80			23.48	443.4	20.	24.41	34.76	23.36	453.7	0.092			
76.	24.10	34.89			23.55	437.9	30.	24.30	34.78	23.40	450.0	0.138			
100.	23.62	34.95			23.74	421.0	40.	24.11	34.80	23.48	443.7	0.228			
122.	23.15	35.04			23.94	402.3	50.	24.10	34.89	23.55	438.2	0.339			
145.	21.92	35.10			24.34	365.3	60.	23.62	34.95	23.74	421.0	0.447			
167.	20.60	35.07			24.67	333.7	70.	21.60	35.10	24.42	357.1	0.643			
185.	19.94	35.01			24.80	321.9	80.	18.94	34.93	25.00	303.2	0.810			
215.	17.74	34.83			25.22	282.4	90.	15.20	34.56	25.61	246.2	0.948			
240.	15.76	34.62			25.53	253.6	100.	11.69	34.22	26.06	203.1	1.061			
267.	14.22	34.46			25.74	233.5	110.	8.55	34.15	26.55	156.9	1.243			
290.	12.25	34.26			25.99	210.1	120.	6.65	34.23	26.89	124.9	1.385			
384.	8.98	34.15			26.48	163.7	130.	5.80	34.33	27.07	107.9	1.503			
473.	7.01	34.21			26.82	131.3	140.	5.28	34.40	27.19	97.0	1.606			
558.	6.09	34.29			27.00	114.0	150.	4.89	34.45	27.27	89.8	1.701			
731.	5.17	34.42			27.22	94.6	160.	4.23	34.49	27.38	80.6	1.873			
904.	4.52	34.47			27.33	84.6	170.	3.64	34.52	27.47	72.5	2.028			
1076.	4.02	34.50			27.41	77.8									
1338.	3.28	34.54			27.51	67.9									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

ORIGINAL DATA						DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.0		4, STATION WET BULB 22.0		3, 17-30N LAT, 157- ON LONG, MAY 18, 1964, 1900 G.C.T.		WIND SPEED 18, DIR. 09		BAR. 17		WEATHER 03		VIS. 8		CLOUD TYPE 7, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.58	34.64			23.22	466.6	0.	24.58	34.64	23.22	466.6	0.000			
10.Δ	24.59	34.63			23.21	468.0	10.	24.59	34.63	23.21	468.0	0.047			
30.Δ	24.62	34.64			23.21	469.0	20.	24.60	34.63	23.20	468.6	0.094			
50.Δ	24.64	34.64			23.20	470.3	30.	24.62	34.64	23.21	469.0	0.141			
71.	24.59	34.64			23.21	469.7	40.	24.64	34.64	23.20	470.3	0.236			
95.	23.44	34.84			23.71	423.7	50.	24.42	34.67	23.28	463.1	0.354			
119.	22.75	35.01			24.03	393.3	60.	23.31	34.88	23.78	417.0	0.465			
142.	21.44	35.01			24.40	359.0	70.	21.06	35.03	24.52	348.0	0.657			
166.	20.32	35.04			24.73	328.7	80.	18.34	34.84	25.09	295.2	0.819			
189.	19.18	34.93			24.94	308.9	90.	13.88	34.39	25.76	231.2	0.952			
212.	17.28	34.73			25.26	278.9	100.	10.96	34.19	26.17	192.0	1.059			
236.	14.94	34.48			25.60	246.1	110.	7.83	34.14	26.64	147.2	1.230			
258.	13.34	34.35			25.84	223.6	120.	6.32	34.24	26.93	120.1	1.365			
281.	11.88	34.24			26.04	204.5	130.	5.73	34.38	27.11	103.5	1.478			
372.	8.54	34.14			26.54	157.3	140.	5.32	34.45	27.22	94.0	1.578			
461.	6.72	34.18			26.83	129.3	150.	4.94	34.48	27.29	88.1	1.670			
549.	6.00	34.32			27.04	110.5	160.	4.20	34.52	27.40	78.1	1.838			
726.	5.24	34.46			27.24	92.5	170.	3.60	34.55	27.49	69.7	1.987			
903.	4.54	34.49			27.34	83.3									
1082.	3.94	34.54			27.45	73.9									
1364.	3.20	34.58			27.55	64.2									

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 4, 15-58N LAT, 157- 1W LONG, MAY 19, 1964, 0400 G.C.T.												
DRY BULB 25.1 WET BULB 22.1 WIND SPEED 14, DIR. 08 BAR. 14 WEATHER 01 VIS. 8 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.40	34.56			22.91	496.2	0.	25.40	34.56	22.91	496.2	0.000
11.	25.36	34.56			22.92	495.4	10.	25.36	34.56	22.92	495.5	0.050
54.	25.20	34.54			22.95	493.9	20.	25.37	34.54	22.90	497.5	0.100
78.	24.65	34.70			23.24	467.4	30.	25.35	34.53	22.90	498.3	0.150
104.	23.87	34.80			23.55	439.0	50.	25.24	34.53	22.94	495.2	0.250
131.	22.23	34.96			24.14	383.2	75.	24.73	34.68	23.20	471.2	0.372
157.	20.15	35.00			24.74	326.9	100.	24.02	34.79	23.49	444.2	0.487
182.	18.07	34.83			25.14	289.1	150.	20.74	35.01	24.59	341.3	0.685
209.	16.23	34.63			25.43	262.3	200.	16.87	34.70	25.33	271.2	0.839
234.	13.66	34.38			25.80	227.1	250.	12.76	34.29	25.91	216.3	0.962
260.	12.31	34.26			25.97	210.5	300.	10.14	34.21	26.33	176.7	1.061
286.	10.75	34.20			26.22	187.3	400.	8.11	34.34	26.76	136.6	1.220
311.	9.73	34.22			26.41	169.2	500.	6.89	34.40	26.99	115.7	1.347
416.	7.99	34.36			26.79	133.5	600.	6.16	34.45	27.12	103.7	1.458
519.	6.69	34.41			27.02	112.8	700.	5.61	34.48	27.21	95.4	1.558
621.	6.06	34.46			27.14	101.9	800.	5.09	34.50	27.29	88.6	1.651
828.	4.95	34.50			27.31	87.0	1000.	4.23	34.53	27.41	77.8	1.820
1030.	4.12	34.53			27.42	76.4	1200.	3.59	34.56	27.50	69.5	1.969
1233.	3.50	34.56			27.51	68.3	1500.	2.86	34.60	27.60	59.9	2.166
1536.	2.80	34.60			27.61	59.0						

CROMWELL 4, STATION 5, 14-30N LAT, 156-59W LONG, MAY 19, 1964, 1200 G.C.T.												
DRY BULB 25.0 WET BULB 23.0 WIND SPEED 15, DIR. 06 BAR. 15 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 0												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.25	34.50			22.91	496.1	0.	25.25	34.50	22.91	496.1	0.000
10.Δ	25.26	34.50			22.91	496.8	10.	25.26	34.50	22.91	496.8	0.050
30.Δ	25.26	34.50			22.91	497.6	20.	25.26	34.50	22.91	497.2	0.100
50.Δ	25.26	34.50			22.91	498.4	30.	25.26	34.50	22.91	497.6	0.150
75.	24.41	34.71			23.32	459.7	50.	25.26	34.50	22.91	498.4	0.251
99.	23.86	34.86			23.60	434.2	75.	24.41	34.71	23.32	459.7	0.371
125.	22.29	35.04			24.19	378.9	100.	23.82	34.87	23.62	432.4	0.484
148.	20.20	35.02			24.74	326.4	150.	19.95	35.00	24.79	321.8	0.674
173.	17.12	34.70			25.27	276.1	200.	14.59	34.42	25.63	242.1	0.816
198.	14.83	34.44			25.60	245.6	250.	10.62	34.23	26.26	182.1	0.923
222.	12.14	34.26			26.01	206.4	300.	8.98	34.23	26.54	156.4	1.008
248.	10.72	34.23			26.25	183.8	400.	7.97	34.44	26.86	126.7	1.151
272.	9.69	34.23			26.42	167.0	500.	7.10	34.48	27.02	112.9	1.272
296.	9.05	34.22			26.52	157.9	600.	6.21	34.50	27.15	100.7	1.380
395.	8.01	34.44			26.85	127.6	700.	5.63	34.51	27.23	93.8	1.478
492.	7.18	34.48			27.01	114.1	800.	5.20	34.51	27.29	89.0	1.570
590.	6.28	34.50			27.14	101.5	1000.	4.39	34.54	27.40	78.5	1.740
785.	5.27	34.51			27.28	89.8	1200.	3.70	34.58	27.50	69.2	1.889
980.	4.47	34.54			27.39	79.5						
1174.	3.78	34.58			27.50	69.8						
1468.	2.98	34.61			27.60	60.0						

CROMWELL 4, STATION 6, 13- 9N LAT, 157- 3W LONG, MAY 19, 1964, 2200 G.C.T.												
DRY BULB 26.1 WET BULB 24.0 WIND SPEED 20, DIR. 06 BAR. 14 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 8												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	26.56	34.71			22.66	519.9	0.	26.56	34.71	22.66	519.9	0.000
40.Δ	26.53	34.70			22.66	521.3	10.	26.58	34.71	22.65	521.1	0.052
50.	26.48	34.70			22.68	520.2	20.	26.58	34.70	22.65	521.7	0.105
62.Δ	26.43	34.71			22.70	518.4	30.	26.56	34.70	22.65	521.8	0.158
75.	26.36	34.70			22.72	517.6	50.	26.48	34.70	22.68	520.2	0.262
85.	24.36	34.46			23.15	476.6	75.	26.36	34.70	22.72	517.6	0.393
109.	21.39	34.78			24.24	373.1	100.	22.34	34.61	23.85	410.3	0.510
133.	18.68	34.70			24.89	311.4	150.	16.02	34.53	25.40	263.2	0.680
156.	15.07	34.46			25.56	248.0	200.	11.34	34.28	26.18	189.6	0.794
179.	12.26	34.24			25.97	209.0	250.	10.07	34.40	26.49	160.3	0.882
203.	11.28	34.30			26.20	187.4	300.	9.76	34.55	26.66	145.4	0.959
227.	10.53	34.39			26.40	168.3	400.	8.13	34.47	26.86	126.8	1.096
250.	10.07	34.40			26.49	160.3	500.	7.14	34.50	27.03	112.1	1.217
274.	10.08	34.52			26.58	152.1	600.	6.46	34.54	27.15	101.4	1.325
366.	8.58	34.48			26.80	132.7	700.	5.84	34.54	27.23	94.4	1.424
461.	7.45	34.48			26.97	117.5	800.	5.33	34.53	27.29	89.1	1.517
553.	6.78	34.53			27.10	105.7	1000.	4.52	34.55	27.39	79.8	1.687
739.	5.62	34.53			27.25	92.4	1200.	3.85	34.56	27.48	72.0	1.841
924.	4.81	34.54			27.35	83.3						
1110.	4.14	34.56			27.44	75.2						
1387.	3.35	34.58			27.54	66.2						

SALINITY ERROR TERM AT 100. METERS IS 0.07

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 7, 11-30N LAT, 157-2W LCNG, MAY 20, 1964, 0700 G.C.T.												
DRY BULB 27.2		WET BULB 24.6		WIND SPEED 18, DIR. 06		BAR. 13		WEATHER 01		VIS. 7 CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0- Δ	27.42	34.56			22.27	556.9	0.	27.42	34.56	22.27	556.9	0.000
30- Δ	27.35	34.58			22.31	554.5	10.	27.39	34.57	22.29	556.1	0.054
50- Δ	27.32	34.60			22.34	553.0	20.	27.37	34.57	22.30	555.3	0.112
75- Δ	27.30	34.64			22.37	550.5	30.	27.35	34.58	22.31	554.5	0.168
86.	27.29	34.66			22.39	549.2	50.	27.32	34.60	22.34	553.0	0.279
97.	16.40	34.50			25.29	272.1	75.	27.30	34.64	22.37	550.5	0.418
102.	14.33	34.44			25.70	232.6	100.	14.98	34.46	25.58	244.6	0.519
107.	13.47	34.48			25.91	212.6	150.	11.62	34.71	26.46	162.0	0.621
118.	12.96	34.60			26.11	194.3	200.	10.80	34.72	26.61	148.0	0.699
144.	11.79	34.70			26.42	165.7	250.	10.30	34.72	26.70	140.6	0.772
171.	11.21	34.73			26.55	153.8	300.	9.91	34.70	26.75	136.6	0.842
198.	10.82	34.72			26.61	148.3	400.	8.93	34.66	26.89	125.3	0.974
224.	10.58	34.72			26.65	144.8	500.	8.27	34.60	26.94	121.2	1.098
250.	10.30	34.72			26.70	140.6	600.	7.43	34.56	27.03	113.4	1.217
277.	10.13	34.70			26.72	139.8	700.	6.63	34.54	27.13	104.7	1.327
303.	9.88	34.70			26.76	136.1	800.	5.92	34.54	27.22	96.5	1.429
408.	8.86	34.66			26.89	124.7	1000.	4.85	34.56	27.36	83.2	1.611
508.	8.22	34.60			26.95	120.9	1200.	4.09	34.58	27.46	73.9	1.770
607.	7.37	34.56			27.04	112.8	1500.	3.17	34.60	27.57	63.3	1.979
808.	5.87	34.54			27.23	95.9						
1007.	4.82	34.56			27.37	82.8						
1206.	4.07	34.58			27.47	73.7						
1504.	3.16	34.60			27.57	63.2						

CROMWELL 4, STATION 7A, 10- ON LAT, 154-0W LCNG, MAY 21, 1964, 0300 G.C.T.												
DRY BULB 27.3		WET BULB 24.8		WIND SPEED 14, DIR. 10		BAR. 10		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0- Δ	27.14	34.82			22.56	529.6	0.	27.14	34.82	22.56	529.6	0.000
11- Δ	27.11	34.82			22.57	529.1	10.	27.11	34.82	22.57	529.1	0.053
30- Δ	27.06	34.82			22.58	528.4	20.	27.09	34.82	22.58	528.8	0.107
50- Δ	27.00	34.82			22.60	527.3	30.	27.06	34.82	22.58	528.4	0.160
77.	26.87	34.82			22.65	524.5	50.	27.00	34.82	22.60	527.3	0.266
102.	26.09	34.78			22.86	504.8	75.	26.89	34.82	22.64	525.0	0.399
113.	19.36	34.55			24.60	338.2	100.	26.54	34.80	22.73	516.9	0.530
123.	15.18	34.46			25.54	249.4	150.	12.34	34.60	26.23	183.3	0.706
133.	13.40	34.40			25.87	217.8	200.	11.41	34.76	26.54	155.6	0.792
153.	12.30	34.65			26.28	179.0	250.	10.79	34.75	26.64	146.8	0.868
178.	11.75	34.76			26.47	161.4	300.	10.33	34.72	26.70	141.8	0.941
204.	11.36	34.76			26.54	155.0	400.	9.49	34.68	26.81	133.0	1.079
229.	11.05	34.75			26.59	150.9	500.	8.47	34.62	26.93	123.0	1.209
255.	10.73	34.75			26.65	145.9	600.	7.53	34.58	27.03	113.5	1.328
280.	10.47	34.74			26.69	142.7	700.	6.58	34.55	27.15	103.2	1.438
306.	10.29	34.72			26.70	141.6	800.	5.72	34.54	27.25	93.7	1.537
406.	9.43	34.68			26.82	132.3	1000.	4.65	34.56	27.39	80.6	1.714
505.	8.42	34.62			26.93	122.5	1200.	3.84	34.57	27.48	71.3	1.867
606.	7.48	34.58			27.04	112.9						
805.	5.68	34.54			27.25	93.3						
1005.	4.63	34.56			27.39	80.3						
1156.	3.98	34.57			27.47	72.8						
1382.	3.36	34.58			27.54	66.3						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.24

CROMWELL 4, STATION 8, 11-32N LAT, 153-59W LCNG, MAY 21, 1964, 1200 G.C.T.												
DRY BULB 26.7		WET BULB 24.1		WIND SPEED 20, DIR. 08		BAR. 12		WEATHER 00		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0- Δ	26.70	34.68			22.59	526.2	0.	26.70	34.68	22.59	526.2	0.000
10- Δ	26.70	34.68			22.59	526.6	10.	26.70	34.68	22.59	526.6	0.053
30- Δ	26.68	34.68			22.60	526.9	20.	26.75	34.69	22.58	528.2	0.106
50- Δ	25.70	34.58			22.83	505.5	30.	26.68	34.68	22.60	526.9	0.159
69.	24.18	34.49			23.22	468.7	50.	25.70	34.58	22.83	505.5	0.263
80.	23.54	34.57			23.47	445.4	75.	23.89	34.52	23.33	458.6	0.385
91.	21.83	34.80			24.13	382.6	100.	20.69	34.84	24.48	350.1	0.487
101.	20.57	34.84			24.51	347.2	150.	13.98	34.38	25.73	231.6	0.633
113.	19.16	34.81			24.85	314.4	200.	10.88	34.39	26.34	174.0	0.735
123.	18.23	34.75			25.04	296.7	250.	10.36	34.57	26.58	152.3	0.818
149.	14.08	34.38			25.71	233.2	300.	10.04	34.63	26.68	143.6	0.892
176.	12.13	34.37			26.09	197.0	400.	8.98	34.61	26.84	130.0	1.030
202.	10.81	34.39			26.35	172.5	500.	8.13	34.57	26.94	121.4	1.157
228.	10.62	34.53			26.50	159.5	600.	7.28	34.54	27.04	112.6	1.275
256.	10.29	34.58			26.59	150.8	700.	6.43	34.54	27.15	102.5	1.384
307.	10.01	34.64			26.69	142.8	800.	5.67	34.54	27.25	93.2	1.483
413.	8.82	34.60			26.85	128.5	1000.	4.66	34.54	27.37	82.2	1.640
514.	8.03	34.57			26.95	120.3	1200.	3.93	34.57	27.47	72.7	1.817
613.	7.17	34.54			27.05	111.4	1500.	3.09	34.60	27.58	62.4	2.023
812.	5.59	34.54			27.26	92.2						
1010.	4.62	34.54			27.38	81.7						
1208.	3.90	34.57			27.48	72.3						
1506.	3.08	34.60			27.58	62.2						

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 4, STATION 9, 13- 4N LAT, 154- 0W LONG, MAY 21, 1964, 2200 G.C.T.		WET BULB 23.2		WIND SPEED 23, DIR. 08		BAR. 14		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.	24.98	34.45			22.95	491.9	0.	24.98	34.45	22.95	491.9	0.000	
10.	24.94	34.46			22.97	490.4	10.	24.94	34.46	22.97	490.4	0.049	
51.	24.34	34.51			23.19	471.1	20.	24.87	34.47	23.00	488.0	0.099	
75.	23.55	34.55			23.45	446.9	30.	24.75	34.48	23.05	484.1	0.148	
98.	21.11	34.94			24.44	353.8	50.	24.36	34.51	23.18	471.9	0.244	
126.	19.19	34.94			24.95	306.2	75.	23.55	34.55	23.45	446.9	0.360	
150.	16.30	34.59			25.38	264.9	100.	20.98	34.96	24.49	349.3	0.460	
175.	13.36	34.30			25.80	225.5	150.	16.30	34.59	25.38	264.9	0.615	
200.	11.49	34.26			26.13	194.0	200.	11.49	34.26	26.13	194.0	0.730	
225.	10.70	34.34			26.34	174.8	250.	10.31	34.43	26.47	162.4	0.820	
251.	10.30	34.43			26.48	161.9	300.	9.78	34.56	26.67	144.7	0.898	
274.	10.00	34.52			26.60	150.8	400.	8.56	34.56	26.86	127.2	1.035	
300.	9.78	34.56			26.67	144.7	500.	7.79	34.57	26.99	116.5	1.158	
399.	8.57	34.56			26.86	127.3	600.	6.68	34.52	27.11	105.7	1.270	
498.	7.81	34.57			26.99	116.8	700.	5.98	34.51	27.19	98.4	1.373	
596.	6.71	34.52			27.10	106.0	800.	5.48	34.52	27.26	91.9	1.469	
793.	5.52	34.52			27.25	92.5	1000.	4.57	34.59	27.42	77.3	1.641	
988.	4.62	34.59			27.42	77.8	1200.	3.84	34.60	27.51	69.2	1.789	
1183.	3.92	34.58			27.48	71.6							
1474.	3.06	34.60			27.58	61.8							

CROMWELL 4, STATION 10, 14-30N LAT, 154- 2W LONG, MAY 22, 1964, 0800 G.C.T.		WET BULB 22.6		WIND SPEED 24, DIR. 08		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0.	24.56	34.52			23.13	474.7	0.	24.56	34.52	23.13	474.7	0.000	
11.	24.60	34.50			23.11	477.7	10.	24.60	34.50	23.11	477.6	0.048	
30. Δ	24.58	34.51			23.12	477.2	20.	24.60	34.50	23.11	478.0	0.096	
50. Δ	24.50	34.52			23.15	474.9	30.	24.58	34.51	23.12	477.2	0.144	
71.	24.22	34.54			23.25	466.3	50.	24.50	34.52	23.15	474.9	0.240	
94.	22.81	34.96			23.98	397.6	75.	24.04	34.61	23.36	456.4	0.357	
120.	20.46	35.06			24.70	329.1	100.	22.28	35.01	24.17	379.7	0.463	
144.	18.66	34.90			25.05	296.8	150.	18.07	34.84	25.15	287.4	0.631	
168.	16.23	34.64			25.44	260.3	200.	13.22	34.37	25.88	218.5	0.758	
192.	14.08	34.42			25.74	231.5	250.	10.24	34.42	26.48	161.5	0.854	
216.	11.66	34.31			26.14	193.8	300.	9.40	34.49	26.68	143.5	0.931	
240.	10.54	34.40			26.41	168.0	400.	8.25	34.52	26.88	125.2	1.067	
263.	9.94	34.44			26.54	155.4	500.	7.40	34.52	27.00	114.6	1.188	
287.	9.58	34.48			26.64	147.1	600.	6.51	34.51	27.12	104.3	1.298	
382.	8.41	34.52			26.86	127.5	700.	5.79	34.50	27.21	96.4	1.400	
476.	7.63	34.52			26.97	117.4	800.	5.21	34.51	27.28	89.4	1.493	
570.	6.75	34.51			27.09	107.0	1000.	4.35	34.54	27.41	78.0	1.663	
756.	5.45	34.50			27.25	92.6	1200.	3.68	34.57	27.50	69.7	1.812	
945.	4.56	34.54			27.38	80.3							
1131.	3.91	34.55			27.46	73.2							
1411.	3.19	34.60			27.57	62.9							

CROMWELL 4, STATION 11, 16- ON LAT, 153-59W LONG, MAY 22, 1964, 1700 G.C.T.		WET BULB 21.7		WIND SPEED 24, DIR. 08		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
0.	24.89	34.50***			23.02	485.6	0.	24.89	34.50	23.02	485.6	0.000	
11.	24.91	34.50			23.01	486.7	10.	24.91	34.50	23.01	486.6	0.049	
30. Δ	24.91	34.50			23.01	487.4	20.	24.91	34.50	23.01	487.1	0.098	
50. Δ	24.90	34.50			23.02	487.9	30.	24.91	34.50	23.01	487.4	0.147	
74.	23.57	34.59***			23.48	444.5	50.	24.90	34.50	23.02	487.9	0.245	
98.	22.87	34.86			23.89	406.6	75.	23.54	34.60	23.50	442.9	0.363	
125.	21.52	34.96			24.34	364.1	100.	22.80	34.87	23.92	403.7	0.469	
149.	19.43	34.87			24.83	318.0	150.	19.33	34.86	24.85	316.1	0.651	
173.	16.98	34.65			25.27	276.6	200.	14.59	34.43	25.64	241.7	0.791	
198.	14.77	34.44			25.61	244.4	250.	11.30	34.22	26.13	195.0	0.901	
224.	12.65	34.29			25.93	213.8	300.	10.14	34.34	26.44	166.7	0.992	
248.	11.40	34.22			26.12	196.4	400.	7.81	34.31	26.78	134.2	1.144	
272.	10.44	34.22			26.29	180.2	500.	6.76	34.36	26.97	116.9	1.271	
298.	10.18	34.34			26.43	167.5	600.	6.14	34.42	27.10	105.5	1.383	
396.	7.87	34.31			26.77	135.1	700.	5.60	34.46	27.20	96.9	1.486	
494.	6.81	34.36			26.96	117.8	800.	5.12	34.48	27.27	90.2	1.580	
592.	6.19	34.42			27.09	106.2	1000.	4.31	34.53	27.40	78.8	1.751	
788.	5.18	34.48			27.26	90.9	1200.	3.64	34.57	27.50	69.0	1.901	
983.	4.37	34.52			27.39	79.8							
1179.	3.73	34.58			27.50	69.2							
1473.	2.91	34.60			27.60	60.0							

ΔFROM BT DATA
***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 12, 17-32N LAT, 154- 0W LONG, MAY 23, 1964, 0200 G.C.T.												
DRY BULB 24.7		WET BULB 21.7		WIND SPEED 17, DIR. 07		BAR. 15		WEATHER 03		VIS. 8 CLOUD TYPE 5, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.18	34.56			23.28	461.0	0.	24.18	34.56	23.28	461.0	0.000
11.	24.18	34.57			23.28	460.7	10.	24.18	34.57	23.28	460.7	0.046
30.Δ	24.16	34.56			23.28	461.6	20.	24.17	34.57	23.28	461.1	0.093
50.Δ	24.12	34.56			23.29	461.2	30.	24.16	34.56	23.28	461.6	0.139
79.	24.04	34.56			23.32	460.1	50.	24.12	34.56	23.29	461.2	0.232
104.	23.50	34.74			23.61	432.9	75.	24.07	34.55	23.30	461.2	0.348
132.	21.75	35.02			24.32	366.1	100.	23.63	34.70	23.55	439.1	0.462
158.	20.26	34.94			24.67	334.1	150.	20.72	34.98	24.58	342.5	0.659
185.	18.57	34.86			25.04	298.9	200.	17.28	34.71	25.24	280.1	0.816
211.	16.26	34.58			25.38	266.7	250.	13.11	34.30	25.85	222.3	0.942
236.	14.05	34.38			25.72	235.0	300.	10.57	34.17	26.22	186.9	1.046
263.	12.38	34.25			25.95	212.6	400.	7.93	34.24	26.71	141.5	1.211
289.	11.17	34.18			26.13	196.2	500.	7.20	34.39	26.93	120.9	1.344
314.	9.82	34.16			26.35	175.1	600.	6.17	34.43	27.10	105.5	1.458
420.	7.83	34.27			26.75	137.9	700.	5.38	34.44	27.21	95.7	1.560
522.	7.06	34.42			26.97	117.3	800.	4.95	34.47	27.28	89.0	1.653
627.	5.86	34.42			27.13	102.3	1000.	4.31	34.53	27.40	78.4	1.823
833.	4.86	34.48			27.30	87.4	1200.	3.73	34.56	27.48	71.1	1.974
1038.	4.20	34.54			27.42	76.7	1500.	2.97	34.60	27.59	61.1	2.175
1242.	3.62	34.56			27.50	69.9						
1547.	2.86	34.60			27.60	59.8						

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL 4, STATION 13, 19-10N LAT, 154- 0W LONG, MAY 23, 1964, 1300 G.C.T.												
DRY BULB 22.9		WET BULB 21.1		WIND SPEED 20, DIR. 08		BAR. 16		WEATHER 20		VIS. 7 CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.85	34.61			23.41	448.1	0.	23.85	34.61	23.41	448.1	0.000
11.	23.86	34.62			23.42	448.1	10.	23.86	34.62	23.42	448.1	0.045
55.	23.86	34.62			23.42	449.8	20.	23.91	34.63	23.41	449.4	0.090
79.	23.37	34.58			23.53	439.9	30.	23.94	34.63	23.40	450.2	0.136
106.	22.62	34.69			23.83	412.3	50.	23.89	34.62	23.41	450.2	0.226
133.	20.53	34.96			24.61	338.6	75.	23.47	34.58	23.50	442.3	0.339
158.	18.06	34.70			25.05	297.5	100.	22.85	34.65	23.73	421.3	0.448
184.	15.70	34.43			25.40	264.5	150.	18.87	34.81	24.93	308.6	0.631
210.	13.00	34.23			25.82	224.5	200.	13.97	34.29	25.67	238.8	0.769
237.	11.78	34.21			26.04	203.8	250.	11.26	34.22	26.15	193.6	0.878
264.	10.73	34.24			26.25	183.5	300.	9.46	34.20	26.44	166.1	0.969
289.	9.87	34.22			26.39	171.0	400.	7.22	34.22	26.75	136.8	1.122
315.	8.92	34.17			26.50	159.9	500.	5.96	34.22	26.96	116.8	1.250
422.	6.98	34.18			26.80	132.4	600.	5.35	34.34	27.14	101.1	1.360
524.	5.73	34.24			27.01	112.6	700.	5.03	34.43	27.24	91.6	1.457
627.	5.27	34.38			27.17	97.6	800.	4.74	34.47	27.31	86.0	1.547
835.	4.65	34.48			27.32	84.7	1000.	4.13	34.51	27.41	77.4	1.712
1040.	4.00	34.52			27.43	75.8	1200.	3.51	34.56	27.51	68.3	1.860
1244.	3.39	34.57			27.53	66.4	1500.	2.83	34.60	27.60	59.5	2.054
1549.	2.74	34.60			27.61	58.4						

CROMWELL 4, STATION 14, 20-49N LAT, 154- 0W LONG, MAY 23, 1964, 2300 G.C.T.												
DRY BULB 23.3		WET BULB 20.2		WIND SPEED 28, DIR. 08		BAR. 19		WEATHER 03		VIS. 7 CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
3.	23.46	34.63			23.54	435.9	0.	23.46	34.63	23.54	435.8	0.000
8.	23.46	34.63			23.54	436.1	10.	23.46	34.63	23.54	436.1	0.044
30.Δ	23.46	34.63			23.54	436.9	20.	23.46	34.63	23.54	436.5	0.088
50.Δ	23.46	34.63			23.54	437.7	30.	23.46	34.63	23.54	436.9	0.132
98.	23.46	34.73			23.62	432.3	50.	23.46	34.63	23.54	437.7	0.220
122.	22.87	34.96			23.96	400.3	75.	23.56	34.64	23.52	440.4	0.331
146.	21.78	35.03			24.32	366.7	100.	23.43	34.75	23.64	430.0	0.440
171.	20.40	35.02			24.69	332.3	150.	21.59	35.04	24.38	361.0	0.639
187.	19.14	34.84			24.88	314.3	200.	18.24	34.73	25.03	300.9	0.806
219.	16.99	34.60			25.23	281.9	250.	14.83	34.40	25.57	249.7	0.945
245.	15.22	34.44			25.51	255.2	300.	11.42	34.13	26.04	204.4	1.060
271.	13.20	34.26			25.80	227.8	400.	8.13	34.10	26.57	154.3	1.241
297.	11.57	34.14			26.02	206.5	500.	6.72	34.20	26.85	128.3	1.383
395.	8.24	34.10			26.55	156.1	600.	6.24	34.25	26.95	119.3	1.508
496.	6.74	34.20			26.85	128.6	700.	5.88	34.33	27.06	110.2	1.624
694.	5.94	34.32			27.04	111.6	800.	4.88	34.47	27.29	87.7	1.724
795.	4.91	34.47			27.29	88.3	1000.	4.25	34.53	27.41	77.6	1.892
995.	4.26	34.53			27.41	77.8	1200.	3.69	34.56	27.49	70.5	2.042
1192.	3.74	34.55			27.48	71.7						
1489.	2.96	34.58			27.58	62.1						

TEMPERATURE ERROR TERM AT 600. METERS IS 0.18

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA	
CROMWELL 4, STATION 15, 21-59N LAT, 154- 2W LCNG, MAY 24, 1964, 0600 G.C.T.													
DRY BULB 23.2	WET BULB 20.2	WIND SPEED 26, DIR. 10		BAR. 19	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 1						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.24	34.78			23.72	418.8	0.	23.24	34.78	23.72	418.8	0.000	
10.	23.27	34.78			23.71	420.0	10.	23.27	34.78	23.71	420.0	0.042	
75.	23.00	34.96			23.92	402.1	20.	23.27	34.80	23.72	419.1	0.085	
101.	22.76	35.03			24.05	391.5	30.	23.25	34.82	23.74	417.6	0.127	
124.	22.39	35.09			24.20	377.9	50.	23.18	34.87	23.81	412.4	0.210	
149.	21.27	35.02			24.47	352.7	75.	23.00	34.96	23.92	402.1	0.313	
175.	20.00	35.00			24.78	323.7	100.	22.77	35.03	24.04	391.9	0.413	
190.	19.61	35.00			24.88	314.5	150.	21.17	35.02	24.48	351.5	0.600	
222.	18.04	34.84			25.16	289.0	200.	19.18	34.96	24.96	307.0	0.766	
248.	16.65	34.72			25.40	266.4	250.	16.56	34.71	25.41	265.1	0.910	
275.	15.50	34.58			25.56	251.9	300.	14.36	34.45	25.71	238.0	1.037	
300.	14.36	34.45			25.71	238.0	400.	9.83	34.12	26.31	180.0	1.248	
400.	9.83	34.12			26.31	180.0	500.	7.38	34.03	26.62	150.3	1.415	
499.	7.40	34.03			26.62	150.6	600.	5.78	34.08	26.88	125.8	1.554	
598.	5.80	34.08			26.87	126.3	700.	4.92	34.22	27.08	106.3	1.672	
794.	4.50	34.35			27.24	92.1	800.	4.48	34.36	27.24	91.5	1.772	
988.	3.91	34.47			27.40	77.9	1000.	3.88	34.48	27.40	77.2	1.942	
1182.	3.41	34.53			27.49	69.1	1200.	3.37	34.54	27.51	68.0	2.089	
1474.	2.82	34.56			27.57	61.8							

CROMWELL 4, STATION 16, 23-30N LAT, 154- 0W LCNG, MAY 24, 1964, 1600 G.C.T.												
DRY BULB 21.3	WET BULB 18.8	WIND SPEED 25, DIR. 08		BAR. 20	WEATHER 02	VIS. 7	CLOUD TYPE 5, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.19	34.92			23.84	407.3	0.	23.19	34.92	23.84	407.3	0.000
9.	23.21	34.92			23.83	408.2	10.	23.21	34.92	23.83	408.3	0.041
30. Δ	23.20	34.92			23.84	408.8	20.	23.21	34.92	23.83	408.6	0.082
50. Δ	23.20	34.92			23.84	409.5	30.	23.20	34.92	23.84	408.8	0.123
72.	23.15	34.92			23.85	409.0	50.	23.20	34.92	23.84	409.5	0.206
95.	22.73	35.00			24.03	392.6	75.	23.10	34.93	23.87	407.3	0.309
119.	22.38	35.09			24.20	377.5	100.	22.66	35.02	24.06	389.9	0.409
143.	21.76	35.26			24.50	349.5	150.	21.53	35.27	24.57	343.1	0.594
166.	21.08	35.26			24.69	324.4	200.	19.61	35.07	24.94	309.3	0.758
180.	20.88	35.26			24.74	327.7	250.	16.19	34.66	25.46	260.7	0.902
212.	18.62	34.93			25.08	296.0	300.	13.62	34.38	25.80	228.2	1.025
237.	16.94	34.74			25.35	271.1	400.	9.97	34.12	26.29	182.0	1.232
261.	15.59	34.59			25.54	252.7	500.	7.37	34.03	26.63	150.1	1.400
286.	14.27	34.44			25.72	236.5	600.	5.54	34.07	26.90	123.8	1.538
381.	10.56	34.16			26.22	189.0	700.	4.67	34.19	27.09	105.3	1.654
476.	7.95	34.04			26.55	157.6	800.	4.33	34.32	27.23	92.3	1.754
572.	5.89	34.04			26.83	130.1	1000.	3.91	34.47	27.40	77.7	1.926
762.	4.45	34.28			27.19	96.4	1200.	3.43	34.55	27.51	68.1	2.073
954.	4.02	34.45			27.37	80.4						
1145.	3.54	34.52			27.47	71.1						
1433.	2.88	34.56			27.57	62.3						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

CROMWELL 4, STATION 17, 23-30N LAT, 151- 0W LCNG, MAY 25, 1964, 1100 G.C.T.												
DRY BULB 21.3	WET BULB 18.8	WIND SPEED 16, DIR. 07		BAR. 22	WEATHER 03	VIS. 6	CLOUD TYPE 8, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	22.72	35.12			24.13	380.1	0.	22.72	35.12	24.13	380.0	0.000
9.	22.75	35.12			24.12	381.2	10.	22.76	35.12	24.11	381.7	0.038
30. Δ	22.75	35.12			24.12	382.0	20.	22.82	35.11	24.09	384.5	0.077
47.	21.96	35.26			24.45	351.2	30.	22.75	35.12	24.12	382.0	0.116
72.	21.51	35.34			24.63	334.4	50.	21.88	35.28	24.48	348.0	0.189
96.	21.24	35.32			24.69	329.7	75.	21.47	35.34	24.64	333.5	0.275
120.	20.96	35.29			24.74	325.4	100.	21.23	35.32	24.69	329.5	0.358
143.	19.66	35.10			24.95	306.9	150.	19.38	35.06	24.99	302.7	0.518
168.	18.72	34.98			25.10	293.3	200.	17.06	34.75	25.33	272.1	0.663
183.	18.08	34.88			25.18	285.7	250.	14.21	34.42	25.71	235.9	0.791
214.	16.15	34.64			25.46	260.0	300.	12.04	34.25	26.02	207.0	0.902
238.	14.79	34.49			25.64	242.3	400.	8.43	34.03	26.47	164.4	1.090
266.	13.50	34.34			25.80	227.7	500.	6.69	34.05	26.73	139.3	1.243
288.	12.58	34.29			25.95	214.1	600.	5.35	34.13	26.96	117.0	1.372
384.	8.81	34.04			26.42	169.1	700.	4.72	34.25	27.13	101.4	1.483
482.	7.00	34.04			26.68	143.9	800.	4.42	34.36	27.26	90.2	1.580
577.	5.55	34.10			26.92	121.3	1000.	3.87	34.49	27.41	76.4	1.748
772.	4.52	34.34			27.23	92.9	1200.	3.39	34.56	27.52	67.0	1.893
966.	3.96	34.47			27.39	78.3						
1158.	3.48	34.54			27.49	69.0						
1451.	2.91	34.58			27.58	61.3						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 23.4		4, STATION 19, 22-1N LAT, 150-58W LONG, MAY 25, 1964, 2000 G.C.T.		WET BULB 20.1		WIND SPEED 16, DIR. 10		BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	23.07	34.92			23.87	404.1	0.	23.07	34.92	23.87	404.0	0.000			
11.	23.05	34.92			23.88	403.9	10.	23.05	34.92	23.88	403.9	0.041			
76.	23.00	34.94			23.91	403.6	20.	23.05	34.91	23.87	404.8	0.081			
102.	22.86	35.02			24.01	395.0	30.	23.05	34.91	23.87	405.3	0.122			
128.	22.56	35.18			24.22	376.2	50.	23.04	34.91	23.88	405.5	0.204			
151.	21.86	35.17			24.41	358.9	75.	23.00	34.94	23.91	403.7	0.306			
176.	20.35	35.15			24.80	321.8	100.	22.87	35.01	24.00	395.9	0.407			
202.	19.23	35.03			25.00	303.3	150.	21.90	35.17	24.40	359.8	0.597			
227.	17.91	34.84			25.19	286.1	200.	19.31	35.04	24.99	304.4	0.764			
252.	16.13	34.62			25.44	262.1	250.	16.28	34.64	25.42	264.2	0.908			
278.	14.07	34.38			25.71	236.6	300.	12.43	34.22	25.92	216.3	1.029			
304.	12.15	34.20			25.96	212.9	400.	8.96	34.08	26.42	169.0	1.223			
402.	8.93	34.08			26.43	168.4	500.	7.16	34.16	26.75	137.8	1.378			
503.	7.12	34.16			26.76	137.0	600.	5.63	34.22	27.00	113.8	1.505			
601.	5.62	34.22			27.01	113.6	700.	5.00	34.33	27.16	99.1	1.613			
799.	4.79	34.43			27.27	89.8	800.	4.79	34.43	27.27	89.7	1.708			
997.	4.22	34.50			27.39	79.5	1000.	4.21	34.50	27.39	79.4	1.879			
1196.	3.62	34.54			27.48	71.0	1200.	3.64	34.54	27.48	70.9	2.032			
1494.	2.93	34.58			27.58	61.8									

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

CROMWELL DRY BULB 23.1		4, STATION 19, 20-28N LAT, 151-4W LONG, MAY 26, 1964, 0500 G.C.T.		WET BULB 20.1		WIND SPEED 16, DIR. 08		BAR. 19		WEATHER 03		VIS. 7		CLOUD TYPE 5, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	22.88	35.04			24.02	390.2	0.	22.88	35.04	24.02	390.2	0.000			
10.	22.88	35.05			24.03	389.8	10.	22.88	35.05	24.03	389.8	0.039			
47.	22.44	35.09			24.18	376.4	20.	22.77	35.06	24.07	386.4	0.078			
73.	22.40	35.10			24.20	375.6	30.	22.66	35.07	24.11	382.8	0.117			
97.	22.22	35.09			24.24	372.3	50.	22.43	35.09	24.19	376.2	0.194			
118.	22.05	35.16			24.35	363.5	75.	22.39	35.10	24.20	375.5	0.288			
143.	21.38	35.20			24.56	343.7	100.	22.21	35.10	24.25	371.5	0.382			
166.	20.18	35.13			24.83	318.6	150.	21.02	35.18	24.65	335.7	0.561			
180.	19.66	35.08			24.93	309.6	200.	18.91	34.99	25.06	298.0	0.720			
211.	18.37	34.92			25.14	290.7	250.	15.22	34.48	25.54	252.4	0.859			
236.	16.48	34.64			25.38	268.0	300.	11.57	34.15	26.03	205.7	0.974			
261.	14.23	34.37			25.67	240.1	400.	8.79	34.16	26.51	160.6	1.159			
285.	12.36	34.20			25.92	216.4	500.	7.18	34.22	26.80	133.7	1.308			
380.	9.16	34.14			26.44	167.2	600.	5.61	34.22	27.01	113.1	1.432			
475.	7.68	34.22			26.73	140.3	700.	5.03	34.33	27.16	99.1	1.540			
571.	5.87	34.20			26.96	118.0	800.	4.78	34.44	27.28	89.1	1.635			
762.	4.93	34.41			27.24	92.6	1000.	4.06	34.52	27.42	76.3	1.802			
952.	4.24	34.51			27.39	78.6	1200.	3.45	34.56	27.51	67.7	1.948			
1118.	3.66	34.53			27.47	71.6									
1354.	3.08	34.57			27.56	63.4									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.11

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL DRY BULB 23.3		4, STATION 20, 18-56N LAT, 151-4W LONG, MAY 26, 1964, 1500 G.C.T.		WET BULB 20.3		WIND SPEED 19, DIR. 07		BAR. 17		WEATHER 01		VIS. 7		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.73	34.57			23.42	447.6	0.	23.73	34.57	23.42	447.6	0.000			
10.	23.74	34.57			23.41	448.3	10.	23.74	34.57	23.41	448.3	0.045			
30.Δ	23.74	34.57			23.41	449.0	20.	23.78	34.55	23.39	431.1	0.090			
49.	23.22	34.86			23.78	414.4	30.	23.74	34.57	23.41	449.0	0.136			
72.	23.07	34.92			23.87	406.8	50.	23.21	34.87	23.79	413.8	0.223			
96.	22.38	34.94			24.09	387.4	75.	23.01	34.92	23.89	404.9	0.326			
121.	21.31	34.97			24.41	357.7	100.	22.21	34.94	24.13	383.1	0.425			
144.	20.57	35.15			24.74	326.3	150.	20.29	35.14	24.81	320.1	0.602			
169.	19.12	34.99			25.00	302.4	200.	16.14	34.53	25.37	267.4	0.750			
192.	17.12	34.64			25.23	281.1	250.	11.98	34.20	25.99	208.6	0.870			
217.	14.14	34.34			25.67	239.2	300.	9.78	34.14	26.34	175.6	0.967			
242.	12.46	34.22			25.91	215.8	400.	8.50	34.30	26.67	145.3	1.129			
265.	11.16	34.17			26.12	196.2	500.	7.68	34.50	26.95	120.1	1.263			
289.	10.08	34.14			26.29	180.4	600.	6.55	34.44	27.06	109.6	1.379			
386.	8.61	34.26			26.62	149.8	700.	5.94	34.47	27.16	100.7	1.485			
481.	7.91	34.50			26.92	123.1	800.	5.48	34.50	27.24	93.5	1.583			
577.	6.73	34.44			27.04	112.0	1000.	4.54	34.51	27.36	83.1	1.762			
768.	5.66	34.50			27.22	95.5	1200.	3.86	34.54	27.45	74.2	1.921			
959.	4.69	34.50			27.34	85.1									
1151.	4.09	34.54			27.43	76.4									
1439.	3.24	34.58			27.55	65.2									

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 21, 17-30N LAT, 151- 0W LONG, MAY 27, 1964, 0600 G.C.T.												
DRY BULB 24.0	WET BULB 21.7	WIND SPEED 18,	DIR. 06	BAR. 17	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	34.56			23.27	461.3	0.	24.19	34.56	23.27	461.3	0.000
10.	24.33	34.55			23.22	466.4	10.	24.33	34.55	23.22	466.4	0.047
30.Δ	24.28	34.56			23.25	465.0	20.	24.35	34.55	23.22	467.2	0.094
50.Δ	23.92	34.56			23.35	455.6	30.	24.28	34.56	23.25	465.0	0.141
75.	23.76	34.58			23.42	450.6	50.	23.92	34.56	23.35	455.6	0.233
100.	22.92	34.74			23.78	416.7	75.	23.76	34.58	23.42	450.6	0.348
124.	21.50	34.85			24.26	371.5	100.	22.92	34.74	23.78	416.7	0.457
150.	20.18	34.98			24.72	328.9	150.	20.18	34.98	24.72	328.9	0.645
174.	18.21	34.77			25.06	296.5	200.	15.25	34.46	25.52	253.4	0.791
190.	16.39	34.58			25.35	268.9	250.	11.71	34.20	26.04	203.6	0.907
222.	13.14	34.25			25.80	226.1	300.	10.25	34.30	26.38	171.7	1.001
249.	11.75	34.20			26.03	204.2	400.	8.57	34.40	26.74	139.1	1.158
276.	10.85	34.21			26.21	188.1	500.	7.37	34.44	26.95	119.9	1.289
300.	10.25	34.30			26.38	171.7	600.	6.51	34.44	27.07	109.2	1.404
400.	8.57	34.40			26.74	139.1	700.	5.82	34.46	27.17	100.1	1.510
501.	7.36	34.44			26.95	119.8	800.	5.27	34.48	27.25	92.3	1.608
601.	6.50	34.44			27.07	109.1	1000.	4.45	34.54	27.39	79.5	1.781
802.	5.26	34.48			27.25	92.1	1200.	3.85	34.57	27.48	71.7	1.934
1002.	4.44	34.54			27.40	79.4	1500.	3.06	34.59	27.57	62.7	2.139
1201.	3.85	34.57			27.48	71.6						
1501.	3.06	34.59			27.57	62.7						

CROMWELL 4, STATION 22, 15-59N LAT, 150-59W LONG, MAY 27, 1964, 0900 G.C.T.												
DRY BULB 24.5	WET BULB 21.9	WIND SPEED 16,	DIR. 08	BAR. 17	WEATHER 00	VIS. 7	CLOUD TYPE ,	COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.37	34.55			23.21	467.1	0.	24.37	34.55	23.21	467.1	0.000
10.	24.38	34.54			23.20	468.5	10.	24.38	34.54	23.20	468.5	0.047
48.	24.19	34.60			23.30	460.3	20.	24.39	34.55	23.20	468.6	0.094
72.	23.57	34.62			23.50	442.3	30.	24.36	34.56	23.23	467.1	0.141
99.	23.26	34.68			23.64	430.4	50.	24.14	34.60	23.32	458.8	0.235
122.	22.12	34.90			24.13	384.3	75.	23.55	34.62	23.51	441.9	0.348
147.	19.92	34.98			24.79	322.2	100.	23.23	34.69	23.65	428.8	0.450
172.	18.81	34.88			25.00	302.9	150.	19.77	34.97	24.82	318.8	0.644
187.	17.98	34.78			25.13	290.7	200.	16.00	34.55	25.42	262.7	0.793
219.	12.98	34.27			25.85	221.4	250.	11.26	34.41	26.29	179.9	0.904
243.	11.52	34.38			26.22	186.7	300.	10.33	34.59	26.59	151.9	0.988
270.	10.78	34.50			26.45	165.4	400.	9.00	34.54	26.78	135.4	1.133
292.	10.45	34.58			26.57	154.4	500.	7.87	34.54	26.95	120.2	1.262
393.	9.09*	34.54			26.76	136.9	600.	6.92	34.50	27.06	110.6	1.379
490.	7.98	34.54			26.94	121.4	700.	6.18	34.50	27.15	101.8	1.486
589.	7.01	34.50			27.04	111.7	800.	5.59	34.51	27.24	94.2	1.585
784.	5.68	34.51			27.23	95.2	1000.	4.63	34.52	27.36	83.1	1.765
980.	4.72	34.52			27.35	84.2	1200.	3.87	34.54	27.46	73.8	1.924
1174.	3.93	34.54			27.45	74.6						
1468.	3.22	34.59			27.56	64.4						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

CROMWELL 4, STATION 23, 14-30N LAT, 151- 1W LONG, MAY 27, 1964, 1800 G.C.T.												
DRY BULB 25.4	WET BULB 22.3	WIND SPEED 22,	DIR. 05	BAR. 19	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.74	34.70			22.91	496.1	0.	25.74	34.70	22.91	496.1	0.000
10.	25.73	34.70			22.91	496.2	10.	25.73	34.70	22.91	496.2	0.050
30.Δ	25.73	34.70			22.91	497.0	20.	25.73	34.70	22.91	496.5	0.100
50.Δ	25.73	34.70			22.91	497.8	30.	25.73	34.70	22.91	497.0	0.150
75.Δ	25.50	34.73			23.01	489.8	50.	25.73	34.70	22.91	497.8	0.250
100.	22.28	35.04			24.19	377.7	75.	25.50	34.73	23.01	489.8	0.375
125.	20.39	35.00			24.68	331.9	100.	22.28	35.04	24.19	377.7	0.484
149.	18.86	34.96			25.05	297.5	150.	18.80	34.95	25.05	296.6	0.654
176.	16.32	34.59			25.38	266.2	200.	12.97	34.27	25.85	220.8	0.784
190.	14.05	34.32			25.67	238.1	250.	10.86	34.48	26.41	168.0	0.882
222.	11.57	34.34			26.18	190.1	300.	10.20	34.56	26.59	151.9	0.963
246.	10.92	34.46			26.39	170.3	400.	8.39	34.50	26.84	129.1	1.105
274.	10.60	34.56			26.52	158.0	500.	7.25	34.49	27.00	114.5	1.228
297.	10.26	34.56			26.58	152.7	600.	6.42	34.50	27.13	103.5	1.338
396.	8.45	34.50			26.83	129.8	700.	5.73	34.51	27.22	95.2	1.438
494.	7.31	34.49			26.99	115.2	800.	5.18	34.51	27.29	88.7	1.531
593.	6.47	34.50			27.12	104.1	1000.	4.35	34.53	27.40	78.8	1.701
789.	5.23	34.51*			27.28	89.4	1200.	3.68	34.56	27.49	70.3	1.852
986.	4.40	34.53*			27.39	79.5						
1183.	3.74	34.56*			27.48	70.9						
1480.	3.00	34.60*			27.59	61.1						

AFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 24, 12-58N LAT, 150-59W LONG, MAY 28, 1964, 0300 G.C.T.												
DRY BULB 25.4		WET BULB 22.9		WIND SPEED 18, DIR. 06		BAR. 13		WEATHER 02		VIS. 7 CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.44	34.92			22.86	501.1	0.	26.44	34.92	22.86	501.1	0.000
10.	26.46	34.93			22.86	501.4	10.	26.46	34.93	22.86	501.4	0.050
30.Δ	26.46	34.93			22.86	502.2	20.	26.46	34.93	22.86	501.8	0.101
50.Δ	26.45	34.92			22.85	503.5	30.	26.46	34.93	22.86	502.2	0.152
74.	26.02	34.90			22.97	493.0	50.	26.45	34.92	22.85	503.5	0.253
98.	23.59	34.69			23.55	438.8	75.	25.95	34.89	22.99	491.9	0.378
122.	19.55	34.90			24.82	317.9	100.	23.26	34.71	23.66	428.3	0.494
147.	16.65	34.58			25.29	273.4	150.	16.19	34.53	25.36	267.0	0.669
172.	13.12	34.28			25.83	222.2	200.	11.50	34.45	26.27	180.3	0.782
186.	12.04	34.36			26.10	196.3	250.	10.43	34.55	26.55	155.3	0.867
219.	11.12	34.54			26.42	167.3	300.	9.80	34.58	26.68	143.3	0.942
245.	10.54	34.55			26.53	157.1	400.	8.83	34.60	26.85	128.6	1.079
270.	10.04	34.55			26.61	149.2	500.	7.82	34.56	26.97	117.8	1.203
295.	9.84	34.58			26.67	144.1	600.	6.82	34.52	27.08	107.9	1.317
393.	8.90	34.60			26.84	129.4	700.	6.06	34.50	27.17	100.0	1.422
493.	7.89	34.56			26.97	118.6	800.	5.45	34.50	27.25	93.0	1.520
591.	6.90	34.52			27.08	108.7	1000.	4.52	34.54	27.39	80.2	1.695
788.	5.52	34.50			27.24	93.9	1200.	3.79	34.57	27.49	71.0	1.849
985.	4.58	34.54			27.38	81.0						
1181.	3.87	34.56			27.47	72.4						
1478.	3.04	34.60			27.58	61.6						

CROMWELL 4, STATION 25, 11-23N LAT, 151-0N LONG, MAY 28, 1964, 1200 G.C.T.												
DRY BULB 25.7		WET BULB 23.8		WIND SPEED 20, DIR. 06		BAR. 14		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.34	34.58			22.63	522.6	0.	26.34	34.58	22.63	522.6	0.000
8.	26.29	34.57			22.64	522.1	10.	26.29	34.57	22.64	522.1	0.053
30.Δ	26.29	34.57			22.64	523.0	20.	26.28	34.57	22.64	522.4	0.105
50.Δ	26.29	34.57			22.64	523.8	30.	26.29	34.57	22.64	523.0	0.158
75.Δ	26.32	34.57			22.63	525.7	50.	26.29	34.57	22.64	523.8	0.263
88.	24.55	34.63			23.22	469.9	75.	26.32	34.57	22.63	525.7	0.396
109.	20.15	34.80			24.59	339.7	100.	22.00	34.73	24.04	392.3	0.511
132.	18.22	34.78			25.07	294.6	150.	16.08	34.54	25.39	263.9	0.676
155.	15.38	34.46			25.49	254.6	200.	11.77	34.51	26.27	181.0	0.789
168.	13.37	34.34			25.83	222.6	250.	10.70	34.66	26.58	151.9	0.872
197.	11.87	34.48			26.23	184.6	300.	9.71	34.61	26.72	139.6	0.946
221.	11.23	34.66			26.49	160.5	400.	8.55	34.60	26.89	124.3	1.079
244.	10.84	34.67			26.57	153.4	500.	7.53	34.55	27.01	114.1	1.199
266.	10.33	34.63			26.63	148.1	600.	6.57	34.52	27.12	104.2	1.310
350.	9.03	34.62*			26.84	129.2	700.	5.83	34.51	27.21	96.2	1.411
435.	8.26	34.58*			26.93	121.7	800.	5.25	34.52	27.29	88.8	1.505
523.	7.27	34.54*			27.04	111.4	1000.	4.29	34.55	27.42	76.6	1.672
699.	5.84	34.51*			27.21	96.3	1200.	3.60	34.58	27.51	68.0	1.818
885.	4.83	34.54*			27.35	83.1						
1065.	4.03	34.56*			27.46	73.4						
1325.	3.30	34.59*			27.55	64.4						

TEMPERATURE ERROR TEMP AT 100. METERS IS 0.18

CROMWELL 4, STATION 26, 10-4N LAT, 148-0N LONG, MAY 29, 1964, 0800 G.C.T.												
DRY BULB 25.8		WET BULB 24.1		WIND SPEED 14, DIR. 12		BAR. 14		WEATHER 02		VIS. 8 CLOUD TYPE 5, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.87	34.24			22.21	563.1	0.	26.87	34.24	22.21	563.1	0.000
10.	26.84	34.24			22.22	562.5	10.	26.84	34.24	22.22	562.5	0.057
30.Δ	26.68	34.31			22.32	553.5	20.	26.78	34.27	22.26	559.1	0.113
50.Δ	26.30	34.38			22.49	537.8	30.	26.68	34.31	22.32	553.5	0.169
52.	26.16	34.39			22.55	532.9	50.	26.30	34.38	22.49	537.8	0.279
62.	19.94	34.47			24.39	356.6	75.	15.98	34.38	25.29	271.2	0.381
73.	16.39	34.38			25.20	279.8	100.	13.11	34.59	26.07	197.2	0.440
82.	14.87	34.39			25.55	246.8	150.	11.12	34.75	26.58	149.9	0.528
102.	12.99	34.62			26.12	192.9	200.	10.47	34.72	26.67	142.6	0.601
130.	11.66	34.74			26.47	160.1	250.	10.02	34.71	26.74	136.8	0.672
155.	11.02	34.75			26.60	148.6	300.	9.70	34.68	26.78	134.3	0.740
180.	10.65	34.71			26.63	145.7	400.	9.10	34.65	26.85	128.8	0.873
206.	10.42	34.72			26.68	141.6	500.	8.18	34.59	26.94	121.0	0.999
263.	9.91	34.70			26.75	135.8	600.	7.16	34.56	27.07	109.5	1.115
308.	9.66	34.68			26.78	134.1	700.	6.29	34.54	27.17	100.3	1.221
411.	9.02	34.65			26.86	128.0	800.	5.58	34.52	27.25	93.2	1.319
513.	8.04	34.58			26.96	119.7	1000.	4.57	34.55	27.39	80.6	1.495
613.	7.03	34.56			27.09	107.9	1200.	3.83	34.58	27.49	70.9	1.648
816.	5.48	34.52			27.26	92.2	1500.	3.00	34.61	27.59	60.6	1.848
1016.	4.51	34.55			27.40	79.7						
1217.	3.78	34.58			27.50	70.2						
1518.	2.96	34.61			27.60	60.1						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 4, STATION 27, 11-38N LAT, 148- 8W LONG, MAY 29, 1964, 1700 G.C.T.													
DRY BULB	25.6	WET BULB	23.8	WIND SPEED	21, DIR. 07	BAR.	14	WEATHER	03	VIS.	7	CLOUD TYPE	4, COVER 8
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.19	34.66			22.74	512.3	0.	26.19	34.66	22.74	512.3	0.000	
10.	26.20	34.66			22.74	513.0	10.	26.20	34.66	22.74	513.0	0.052	
30. Δ	26.20	34.66			22.74	513.8	20.	26.20	34.66	22.74	513.5	0.103	
50. Δ	26.20	34.66			22.74	514.6	30.	26.20	34.66	22.74	513.8	0.155	
76.	23.22	34.78			23.72	421.2	50.	26.20	34.66	22.74	514.6	0.259	
101.	21.78	35.02			24.31	365.7	75.	23.35	34.77	23.68	425.3	0.377	
125.	19.34	35.02			24.97	304.1	100.	21.83	35.01	24.29	367.8	0.477	
151.	14.80	34.41			25.58	245.9	150.	14.98	34.43	25.56	247.7	0.632	
177.	11.88	34.29			26.08	198.3	200.	11.37	34.52	26.36	172.6	0.738	
193.	11.43	34.45			26.29	178.8	250.	10.96	34.70	26.57	153.2	0.820	
225.	11.30	34.71			26.51	158.1	300.	10.22	34.66	26.67	144.5	0.895	
252.	10.93	34.70			26.57	153.0	400.	8.99	34.62	26.84	129.7	1.033	
279.	10.61	34.72			26.65	146.5	500.	7.76	34.56	26.99	116.5	1.158	
304.	10.14	34.65			26.67	144.2	600.	6.72	34.52	27.10	106.2	1.270	
405.	8.94	34.62			26.85	128.8	700.	5.95	34.52	27.20	97.0	1.373	
507.	7.68	34.56			27.00	115.7	800.	5.35	34.54	27.29	89.0	1.467	
607.	6.66	34.52			27.11	105.5	1000.	4.43	34.56	27.41	77.8	1.636	
808.	5.31	34.54			27.30	88.4	1200.	3.81	34.58	27.49	70.4	1.786	
1010.	4.39	34.56			27.42	77.4	1500.	3.09	34.62	27.59	61.0	1.986	
1210.	3.78	34.58			27.50	70.1							
1512.	3.07	34.62			27.60	60.7							

CROMWELL 4, STATION 28, 13- ON LAT, 148- 6W LONG, MAY 30, 1964, 0200 G.C.T.													
DRY BULB	26.5	WET BULB	23.7	WIND SPEED	15, DIR. 07	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	7, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	25.25	34.69			23.05	482.4	0.	25.25	34.69	23.05	482.4	0.000	
10.	25.24	34.70			23.06	481.8	10.	25.24	34.70	23.06	481.8	0.049	
30. Δ	25.24	34.70			23.06	482.6	20.	25.24	34.70	23.06	482.1	0.097	
50. Δ	25.22	34.70			23.07	482.8	30.	25.24	34.70	23.06	482.6	0.146	
76.	22.50	34.82			23.96	398.6	50.	25.22	34.70	23.07	482.0	0.243	
102.	20.68	35.09			24.67	332.0	75.	22.62	34.81	23.92	402.4	0.354	
127.	18.40	34.88			25.10	291.5	100.	20.81	35.08	24.62	336.4	0.447	
153.	14.80	34.41			25.58	245.9	150.	15.23	34.46	25.52	251.3	0.596	
179.	11.78	34.36			26.15	191.4	200.	11.45	34.64	26.43	165.4	0.701	
194.	11.49	34.59			26.39	169.6	250.	10.83	34.71	26.60	150.6	0.780	
220.	11.26	34.72			26.53	156.8	300.	10.21	34.67	26.68	143.7	0.854	
255.	10.73	34.70			26.61	149.5	400.	9.14	34.61	26.81	132.8	0.994	
281.	10.43	34.68			26.65	146.4	500.	8.00	34.56	26.95	120.1	1.122	
308.	10.12	34.67			26.69	142.5	600.	6.94	34.54	27.09	107.7	1.237	
409.	9.04	34.60			26.82	132.0	700.	6.12	34.54	27.19	98.1	1.341	
511.	7.87	34.56			26.97	118.6	800.	5.48	34.54	27.27	90.6	1.436	
613.	6.81	34.54			27.10	106.2	1000.	4.53	34.54	27.38	80.6	1.609	
815.	5.40	34.54			27.29	89.7	1200.	3.88	34.58	27.48	71.5	1.763	
1017.	4.47	34.54			27.39	79.9	1500.	3.07	34.59	27.57	62.9	1.968	
1218.	3.83	34.58			27.49	70.8							
1520.	3.03	34.59			27.58	62.5							

CROMWELL 4, STATION 29, 14-30N LAT, 147-58W LONG, MAY 30, 1964, 1100 G.C.T.													
DRY BULB	25.0	WET BULB	22.9	WIND SPEED	16, DIR. 06	BAR.	15	WEATHER	50	VIS.	7	CLOUD TYPE	4, COVER 8
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.63	34.74			22.97	490.0	0.	25.63	34.74	22.97	490.0	0.000	
10.	25.64	34.74			22.97	490.6	10.	25.64	34.74	22.97	490.6	0.049	
30. Δ	25.64	34.74			22.97	491.4	20.	25.64	34.74	22.97	491.1	0.099	
48.	25.65	34.74			22.97	492.5	30.	25.64	34.74	22.97	491.4	0.148	
75.	24.70	34.57			23.13	478.1	50.	25.62	34.72	22.96	493.1	0.247	
99.	22.61	34.83			23.94	401.7	75.	24.70	34.57	23.13	478.1	0.370	
123.	19.99	34.71			24.56	342.6	100.	22.50	34.83	23.97	399.0	0.480	
149.	17.64	34.67			25.13	289.5	150.	17.48	34.65	25.15	286.9	0.653	
173.	13.93	34.32			25.70	235.3	200.	12.10	34.32	26.06	201.0	0.776	
190.	12.66	34.30			25.94	212.4	250.	10.72	34.45	26.42	167.6	0.869	
222.	11.25	34.38			26.27	181.4	300.	9.97	34.52	26.60	150.8	0.949	
247.	10.75	34.44			26.40	168.8	400.	8.63	34.49	26.80	133.4	1.093	
274.	10.51	34.53			26.52	158.7	500.	7.60	34.48	26.94	120.4	1.221	
298.	10.00	34.52			26.60	151.3	600.	6.44	34.44	27.07	108.3	1.336	
397.	8.66	34.49			26.79	133.8	700.	5.69	34.45	27.18	98.7	1.441	
497.	7.64	34.48			26.94	120.8	800.	5.15	34.48	27.27	90.7	1.537	
596.	6.48	34.44			27.07	108.8	1000.	4.28	34.52	27.40	78.8	1.708	
795.	5.18	34.48			27.26	91.0	1200.	3.63	34.56	27.50	69.7	1.858	
993.	4.31	34.52			27.39	79.1							
1191.	3.69	34.56			27.49	70.3							
1488.	2.97	34.61			27.60	60.1							

AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA						
CROMWELL 4, STATION 30, 16- IN LAT, 147-56W LONG, MAY 30, 1964, 2000 G.C.T.		WET BULB 23.0			WIND SPEED 14, DIR. 06			BAR. 16		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1-	24.74	34.61			23.15	473.4	0.	24.74	34.61	23.15	473.4	0.000			
9.	24.73	34.62			23.16	472.7	10.	24.70	34.62	23.17	471.7	0.048			
30.	23.86	34.71			23.48	442.3	20.	24.33	34.66	23.31	458.8	0.094			
48.	23.32	34.79			23.70	422.2	30.	23.86	34.71	23.48	442.3	0.140			
73.	22.45	34.95			24.07	387.7	50.	23.25	34.80	23.73	419.5	0.227			
97.	21.69	35.12			24.42	356.0	75.	22.38	34.97	24.11	384.7	0.328			
120.	21.33	35.20			24.58	341.6	100.	21.66	35.14	24.44	354.1	0.421			
145.	19.73	35.06			24.90	311.6	150.	19.33	35.00	24.95	306.2	0.587			
169.	17.52	34.73			25.20	283.0	200.	13.76	34.35	25.75	230.6	0.723			
185.	15.56	34.50			25.48	258.4	250.	9.85	34.19	26.36	172.3	0.824			
216.	12.04	34.24			26.01	205.8	300.	9.53	34.35	26.55	155.9	0.907			
239.	10.23	34.18			26.29	178.9	400.	8.70	34.51	26.80	133.3	1.053			
267.	9.62	34.23			26.43	165.7	500.	7.36	34.44	26.95	119.8	1.181			
290.	9.57	34.32			26.51	158.8	600.	6.44	34.46	27.09	106.7	1.295			
386.	8.88	34.51			26.77	135.6	700.	5.77	34.47	27.19	98.2	1.399			
485.	7.53	34.44			26.92	122.0	800.	5.23	34.49	27.26	91.2	1.494			
582.	6.58	34.46			27.07	108.5	1000.	4.27	34.53	27.41	77.7	1.665			
775.	5.37	34.48			27.24	93.2	1200.	3.57	34.57	27.51	68.5	1.813			
967.	4.40	34.53			27.39	79.3									
1162.	3.72	34.55			27.48	71.2									
1456.	3.00	34.61			27.60	60.2									

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA						
CROMWELL 4, STATION 31, 17-34N LAT, 148- 4W LONG, MAY 31, 1964, 0500 G.C.T.		WET BULB 21.8			WIND SPEED 19, DIR. 08			BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 3, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	24.14	34.67			23.37	452.0	0.	24.14	34.67	23.37	451.9	0.000			
11.	24.09	34.66			23.38	451.7	10.	24.10	34.66	23.38	451.9	0.046			
48.	23.15	34.78			23.74	418.2	20.	23.90	34.67	23.44	446.1	0.091			
73.	22.72	35.00			24.03	391.5	30.	23.66	34.69	23.53	438.0	0.135			
97.	22.22	35.07			24.23	373.8	50.	23.11	34.80	23.77	416.0	0.221			
120.	21.85	35.14			24.39	359.7	75.	22.68	35.01	24.05	389.8	0.323			
144.	20.24	35.13			24.82	319.3	100.	22.20	35.08	24.24	372.6	0.419			
168.	18.85	34.94			25.03	299.4	150.	19.93	35.10	24.87	314.0	0.592			
182.	17.52	34.74			25.21	282.7	200.	15.40	34.46	25.49	256.4	0.736			
214.	13.78	34.28			25.70	236.3	250.	11.16	34.19	26.14	194.1	0.849			
239.	11.75	34.18			26.02	205.5	300.	9.99	34.62	26.67	144.1	0.934			
263.	10.65	34.26			26.28	180.7	400.	8.66	34.47	26.78	135.2	1.075			
289.	10.17	34.58***			26.41	149.5	500.	7.54	34.46	26.94	121.0	1.205			
384.	8.86	34.48			26.75	137.5	600.	6.59	34.46	27.07	108.7	1.321			
480.	7.76	34.46			26.91	123.8	700.	5.90	34.47	27.17	99.9	1.426			
576.	6.78	34.46			27.04	111.2	800.	5.36	34.48	27.25	93.0	1.524			
767.	5.53	34.48			27.22	95.2	1000.	4.47	34.52	27.37	81.4	1.700			
959.	4.63	34.51			27.35	83.6	1200.	3.75	34.55	27.48	71.8	1.855			
1149.	3.93	34.54			27.45	74.4									
1436.	3.11	34.60			27.58	62.1									

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA						
CROMWELL 4, STATION 32, 1R-59N LAT, 147-57W LONG, MAY 31, 1964, 1400 G.C.T.		WET BULB 20.9			WIND SPEED 15, DIR. 08			BAR. 17		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.85	34.59			23.40	449.5	0.	23.85	34.59	23.40	449.5	0.000			
9.	23.86	34.56			23.37	452.3	10.	23.87	34.56	23.37	452.8	0.045			
43.	23.64	34.54			23.42	448.9	20.	23.91	34.54	23.34	456.0	0.091			
65.	22.51	34.62			23.81	412.9	30.	23.86	34.53	23.35	455.3	0.137			
87.	21.81	34.74			24.09	386.2	50.	23.30	34.56	23.53	438.3	0.227			
108.	21.10	34.92			24.43	355.3	75.	22.17	34.67	23.94	400.6	0.333			
130.	19.52	34.93			24.85	315.2	100.	21.42	34.86	24.29	367.9	0.430			
151.	18.54	34.82			25.02	300.0	150.	18.60	34.83	25.01	300.6	0.598			
163.	17.39	34.66			25.18	284.9	200.	14.60	34.38	25.60	245.3	0.736			
192.	15.30	34.46			25.51	253.9	250.	11.41	34.23	26.12	195.7	0.847			
214.	13.47	34.27			25.75	230.9	300.	9.18	34.11	26.41	168.2	0.939			
235.	12.45	34.29			25.97	210.3	400.	7.47	34.19	26.73	138.4	1.093			
257.	10.92	34.20			26.19	189.6	500.	6.52	34.34	26.98	115.4	1.221			
340.	8.35	34.10			26.54	156.8	600.	5.85	34.40	27.12	103.1	1.332			
421.	7.27	34.23			26.80	132.7	700.	5.31	34.44	27.21	94.9	1.432			
501.	6.51	34.34			26.99	115.2	800.	4.82	34.47	27.30	87.1	1.524			
662.	5.52	34.42			27.18	98.3	1000.	4.04	34.52	27.43	75.6	1.688			
825.	4.71	34.48			27.32	85.4	1200.	3.50	34.55	27.50	68.5	1.834			
990.	4.09	34.52			27.42	76.4									
1274.	3.36	34.56			27.52	67.0									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.15

ΔFROM BT DATA
 *INTERPOLATED DATA
 ***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA	
CROMWELL DRY BULB 24.1		4, STATION WET BULB 20.7		33, 20-30N LAT, 147-59W LONG, MAY WIND SPEED 20, DIR. 08		31, 1964, 2300 G.C.T. BAR. 2C		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.69	34.56			23.42	447.2	0.	23.69	34.56	23.42	447.2	0.000	
10.	23.56	34.55			23.45	444.7	10.	23.56	34.55	23.45	444.7	0.045	
51.	22.42	34.84			24.00	394.0	20.	23.30	34.61	23.57	433.9	0.089	
77.	21.97	34.92			24.19	377.1	30.	23.03	34.67	23.70	422.1	0.132	
102.	21.70	35.16			24.44	353.6	50.	22.45	34.83	23.98	395.5	0.215	
126.	21.35	35.18			24.55	343.8	75.	22.00	34.91	24.17	378.4	0.312	
154.	21.15	35.22			24.64	336.7	100.	21.72	35.14	24.42	355.3	0.405	
179.	20.15	35.18			24.88	314.7	150.	21.20	35.22	24.62	338.2	0.579	
195.	18.99	34.98			25.03	300.8	200.	18.59	34.91	25.07	296.4	0.739	
228.	16.29	34.60			25.39	266.4	250.	14.62	34.60	25.76	231.4	0.872	
256.	14.19	34.59			25.85	223.1	300.	11.52	34.13	26.02	206.4	0.983	
283.	12.43	34.22			25.92	216.2	400.	8.27	34.09	26.54	157.2	1.166	
307.	11.18	34.11			26.07	201.9	500.	6.58	34.21	26.87	126.0	1.309	
409.	8.10	34.11			26.58	153.5	600.	5.91	34.33	27.06	109.3	1.428	
510.	6.47	34.22			26.90	123.7	700.	5.39	34.41	27.18	97.9	1.533	
610.	5.87	34.34			27.07	108.1	800.	4.92	34.46	27.28	89.5	1.627	
813.	4.86	34.46*			27.29	88.6	1000.	4.20	34.51	27.40	78.8	1.798	
1015.	4.16	34.51			27.40	78.2	1200.	3.64	34.54	27.48	71.4	1.950	
1213.	3.61	34.54			27.48	71.0	1500.	2.93	34.58	27.58	61.9	2.153	
1514.	2.90	34.58			27.58	61.6							

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA	
CROMWELL DRY BULB 22.5		4, STATION WET BULB 19.0		34, 22- 3N LAT, 147-58W LONG, JUNE WIND SPEED 10, DIR. C7		1, 1964, 1400 G.C.T. BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.32	34.78			23.69	421.0	0.	23.32	34.78	23.69	421.0	0.000	
11.	23.33	34.78			23.69	421.7	10.	23.33	34.78	23.69	421.8	0.042	
57.	22.64	35.09			24.13	382.2	20.	23.24	34.83	23.76	415.9	0.085	
82.	22.24	35.14			24.28	368.7	30.	23.12	34.89	23.84	408.4	0.126	
108.	21.66	35.14			24.44	354.2	50.	22.79	35.04	24.04	389.8	0.207	
137.	21.16	35.22			24.64	336.3	75.	22.36	35.13	24.24	372.2	0.303	
163.	20.34	35.14			24.80	321.8	100.	21.84	35.14	24.39	358.7	0.395	
189.	18.92	35.00			25.06	297.4	150.	20.81	35.19	24.71	329.6	0.568	
215.	17.41	34.79			25.27	277.6	200.	18.31	34.92	25.15	289.0	0.724	
241.	15.51	34.53			25.52	254.8	250.	14.90	34.45	25.59	247.7	0.859	
269.	13.67	34.31			25.74	233.4	300.	11.78	34.14	25.98	210.6	0.975	
294.	12.10	34.16			25.94	214.7	400.	8.45	34.04	26.48	163.6	1.164	
322.	10.74	34.09			26.13	196.8	500.	6.35	34.06	26.79	133.4	1.314	
428.	7.91	34.06			26.57	154.7	600.	5.17	34.18	27.02	111.2	1.437	
534.	5.77	34.08			26.88	125.1	700.	4.70	34.32	27.19	95.7	1.542	
637.	4.98	34.24			27.10	104.5	800.	4.39	34.42	27.31	85.4	1.633	
847.	4.30	34.46			27.35	82.1	1000.	3.87	34.51	27.43	74.5	1.795	
1054.	3.74	34.52			27.45	72.7	1200.	3.43	34.56	27.51	67.4	1.939	
1259.	3.31	34.57			27.53	65.5	1500.	2.82	34.60	27.60	59.3	2.131	
1565.	2.71	34.60			27.61	58.1							

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA	
CROMWELL DRY BULB 23.0		4, STATION WET BULB 19.4		35, 23-32N LAT, 147-59W LONG, JUNE WIND SPEED 15, DIR. 11		1, 1964, 2200 G.C.T. BAR. 22		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.44	35.08			23.89	402.7	0.	23.44	35.08	23.89	402.7	0.000	
10.	22.93	35.05			24.01	391.2	10.	22.93	35.05	24.01	391.2	0.040	
51.	22.11	35.19			24.35	360.4	20.	22.65	35.07	24.11	382.5	0.079	
77.	21.42	35.22			24.57	340.9	30.	22.42	35.10	24.19	374.6	0.117	
103.	21.38	35.24			24.59	339.4	50.	22.12	35.18	24.34	361.0	0.191	
127.	21.02	35.29			24.73	327.2	75.	21.46	35.22	24.55	342.1	0.280	
154.	20.59	35.29			24.84	317.1	100.	21.38	35.24	24.59	339.4	0.366	
179.	20.20	35.26			24.93	310.2	150.	20.65	35.29	24.83	318.4	0.531	
195.	19.75	35.18*			24.98	305.2	200.	19.48	35.13	25.02	302.2	0.688	
229.	17.66	34.82			25.24	281.7	250.	16.50	34.65	25.38	268.3	0.832	
256.	16.14	34.60			25.43	263.9	300.	12.69	34.22	25.87	221.2	0.955	
283.	13.92	34.34*			25.71	236.6	400.	9.07	34.06	26.39	172.1	1.153	
308.	12.16	34.18			25.94	214.7	500.	6.63	34.01	26.71	141.0	1.311	
410.	8.91	34.07			26.43	168.9	600.	5.18	34.34	27.15	99.3	1.433	
512.	6.38	34.02			26.75	137.3	700.	4.58	34.43	27.30	85.9	1.526	
613.	5.06	34.39			27.21	94.1	800.	4.36	34.39	27.28	87.8	1.614	
815.	4.36	34.37			27.27	89.1	1000.	3.95	34.48	27.40	77.9	1.782	
1017.	3.92	34.49			27.41	76.8	1200.	3.48	34.51	27.47	71.6	1.933	
1218.	3.44	34.51			27.47	71.2	1500.	2.92	34.56	27.56	63.3	2.138	
1519.	2.89	34.56			27.57	63.0							

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 23.0		4, STATION 36, 25- ON LAT, 147-59W LONG, JUNE 2, 1964, 0800 G.C.T. WET BULB 20.5 WIND SPEED 11, DIR. 13 BAR. 23 WEATHER 02		VIS. 9 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	22.98	35.24			24.14	378.5	0.	22.98	35.24	24.14	378.5	0.000
10.	22.32	35.28			24.36	358.0	10.	22.32	35.28	24.36	358.0	0.037
49.	21.14	35.33			24.73	324.6	20.	21.86	35.30	24.51	344.4	0.072
75.	20.95	35.34			24.79	319.9	30.	21.51	35.32	24.62	334.4	0.107
99.	20.73	35.32			24.83	316.5	50.	21.13	35.33	24.73	324.3	0.173
123.	20.36	35.28			24.90	310.8	75.	20.95	35.34	24.79	319.9	0.254
147.	19.52	35.14			25.01	300.6	100.	20.72	35.32	24.83	316.3	0.334
171.	18.63	34.97			25.11	292.0	150.	19.42	35.12	25.02	299.7	0.489
186.	17.88	34.86			25.21	282.6	200.	16.92	34.72	25.34	271.1	0.633
219.	15.47	34.52			25.52	254.0	250.	13.34	34.30	25.80	227.2	0.759
245.	13.51	34.31			25.77	230.0	300.	11.30	34.12	26.06	202.9	0.867
270.	12.68	34.26			25.90	217.7	400.	8.69	34.07	26.46	165.1	1.053
293.	11.55	34.16			26.03	206.1	500.	6.52	34.02	26.74	138.7	1.206
392.	8.90	34.08			26.43	167.7	600.	5.37	34.10	26.94	119.2	1.337
490.	6.67	34.02			26.71	140.9	700.	4.67	34.21	27.11	103.7	1.449
588.	5.48	34.09			26.92	121.3	800.	4.27	34.32	27.24	91.9	1.548
783.	4.32	34.30			27.22	93.5	1000.	3.89	34.47	27.40	77.7	1.720
978.	3.93	34.46			27.39	78.8	1200.	3.47	34.54	27.50	69.0	1.868
1172.	3.53	34.52			27.47	71.2						
1466.	2.90	34.56			27.57	62.7						

CROMWELL DRY BULB 22.2		4, STATION 37, 26-29N LAT, 148- ON LONG, JUNE 2, 1964, 1700 G.C.T. WET BULB 20.1 WIND SPEED 11, DIR. 22 BAR. 21 WEATHER 01		VIS. 9 CLOUD TYPE 8, COVER 2								
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.33	35.32			24.39	355.0	0.	22.33	35.32	24.39	355.0	0.000
9.	22.24	35.29			24.39	355.1	10.	22.22	35.29	24.39	354.8	0.036
48.	21.39	35.29			24.63	334.0	20.	22.04	35.28	24.44	350.9	0.071
73.	20.85	35.29			24.77	320.8	30.	21.83	35.28	24.50	345.8	0.106
97.	20.49	35.29			24.87	312.4	50.	21.34	35.29	24.64	332.8	0.175
119.	19.94	35.22			24.96	304.3	75.	20.82	35.29	24.78	320.1	0.257
145.	18.95	35.02			25.07	295.2	100.	20.43	35.29	24.88	311.3	0.337
168.	17.71	34.82			25.22	280.9	150.	18.72	34.98	25.09	292.8	0.489
182.	16.66	34.68			25.37	267.4	200.	15.34	34.50	25.53	252.1	0.626
214.	14.40	34.38			25.64	241.6	250.	12.54	34.21	25.89	218.2	0.745
240.	13.03	34.26			25.83	223.7	300.	11.04	34.13	26.11	198.0	0.850
263.	12.00	34.16			25.96	212.1	400.	8.32	34.04	26.49	162.1	1.031
287.	11.40	34.14			26.05	203.2	500.	6.42	34.02	26.75	137.6	1.183
391.	8.80	34.05			26.43	168.1	600.	5.49	34.10	26.93	120.6	1.313
475.	6.74	34.01			26.70	142.4	700.	4.77	34.21	27.10	104.7	1.427
567.	5.78	34.07			26.87	126.4	800.	4.29	34.32	27.23	92.2	1.526
751.	4.49	34.27			27.18	97.5	1000.	3.78	34.45	27.39	78.1	1.699
939.	3.91	34.42			27.36	81.2	1200.	3.36	34.53	27.49	68.9	1.848
1125.	3.56	34.49			27.45	73.4						
1410.	3.00	34.56			27.56	63.6						

CROMWELL DRY BULB 23.3		4, STATION 38, 25- ON LAT, 151- ON LONG, JUNE 3, 1964, 1100 G.C.T. WET BULB 21.7 WIND SPEED 16, DIR. 25 BAR. 18 WEATHER 02		VIS. 8 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
2.	23.26	35.22			24.05	387.7	0.	23.26	35.22	24.05	387.6	0.000
9.	23.26	35.24			24.06	386.5	10.	23.22	35.24	24.07	385.2	0.039
30. ^Δ	22.14	35.30			24.43	352.5	20.	22.73	35.27	24.24	370.3	0.077
42.	21.77	35.33			24.55	340.9	30.	22.14	35.30	24.43	352.5	0.113
67.	21.37	35.34			24.67	330.5	50.	21.61	35.34	24.60	336.3	0.183
88.	21.06	35.30			24.73	326.1	75.	21.29	35.33	24.69	329.3	0.267
109.	20.00	35.14			24.89	311.3	100.	20.50	35.22	24.81	318.3	0.348
131.	18.81	34.98			25.07	294.2	150.	17.99	34.87	25.19	283.2	0.500
152.	17.91	34.86			25.21	282.1	200.	14.85	34.49	25.63	242.3	0.632
167.	17.18	34.76			25.31	272.9	250.	12.56	34.30	25.96	211.7	0.747
193.	15.25	34.54			25.58	247.1	300.	11.25	34.23	26.15	194.5	0.849
216.	14.03	34.40			25.74	232.6	400.	9.23	34.10	26.40	171.4	1.034
240.	12.88	34.32			25.91	216.4	500.	6.68	34.02	26.71	141.4	1.192
261.	12.26	34.29			26.01	207.4	600.	5.21	34.07	26.94	119.5	1.323
345.	10.25	34.16			26.27	183.0	700.	4.68	34.20	27.10	104.5	1.437
429.	8.67	34.08			26.47	164.8	800.	4.27	34.31	27.23	92.7	1.536
513.	6.33	34.01			26.75	137.4	1000.	3.73	34.46	27.41	76.4	1.707
683.	4.77	34.18			27.07	106.9	1200.	3.28	34.54	27.51	67.3	1.853
855.	4.12	34.36			27.29	87.4						
1031.	3.66	34.48			27.43	74.6						
1308.	3.11	34.54			27.53	65.7						

TEMPERATURE ERROR TERM AT 600. METERS IS 0.14

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 39, 24-56N LAT, 153-59W LONG, JUNE 4, 1964, 0200 G.C.T.												
DRY BULB	23.5	WET BULB	20.1	WIND SPEED	12, DIR. 33	BAR.	17	WEATHER	02	VIS.	7	CLOUD TYPE 8, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.09	35.07***			23.69	421.7	0.	24.09	35.07	23.69	421.7	0.000
10.	23.82	34.99			23.71	420.2	10.	23.82	34.99	23.71	420.2	0.042
50.	23.36	34.98			23.83	409.6	20.	23.69	34.96	23.72	419.4	0.085
79.	22.58	35.06			24.12	383.5	20.	23.57	34.95	23.75	417.3	0.127
103.	21.56	35.06			24.41	357.1	50.	23.36	34.98	23.83	409.6	0.210
129.	20.38	35.03			24.70	329.6	75.	22.71	35.05	24.07	387.8	0.311
154.	19.28	35.02			24.98	303.6	100.	21.70	35.06	24.37	360.5	0.405
180.	18.05	34.89			25.19	284.2	150.	19.46	35.02	24.94	307.5	0.573
195.	17.26	34.80*			25.32	272.8	200.	17.01	34.77	25.35	269.6	0.719
230.	15.45	34.56			25.55	251.0	250.	14.29	34.43	25.70	236.6	0.846
257.	13.90	34.39			25.76	231.8	300.	11.90	34.20	26.01	208.0	0.958
284.	12.67	34.27			25.91	217.1	400.	8.95	34.06	26.41	170.2	1.149
308.	11.52	34.17			26.05	203.7	500.	6.92	34.02	26.68	144.4	1.308
410.	8.77	34.06			26.44	167.5	600.	5.53	34.07	26.90	123.7	1.443
512.	6.71	34.02			26.71	141.8	700.	4.72	34.17	27.07	107.1	1.560
613.	5.40	34.08			26.52	121.3	800.	4.24	34.28	27.21	94.0	1.662
814.	4.20	34.30			27.23	92.4	1000.	3.84	34.45	27.39	78.7	1.836
1018.	3.82	34.46			27.40	77.8	1200.	3.41	34.52	27.48	70.2	1.987
1219.	3.37	34.52			27.49	69.6	1500.	2.82	34.56	27.57	61.9	2.188
1521.	2.78	34.56			27.58	61.6						

CROMWELL 4, STATION 40, 25- ON LAT, 157- 1W LONG, JUNE 4, 1964, 1900 G.C.T.												
DRY BULB	23.3	WET BULB	19.4	WIND SPEED	02, DIR. 27	BAR.	15	WEATHER	03	VIS.	8	CLOUD TYPE 8, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.71	35.28			23.96	395.8	0.	23.71	35.28	23.96	395.8	0.000
10.	23.48	35.28			24.03	389.8	10.	23.48	35.28	24.03	389.8	0.040
51.	22.30	35.30			24.38	357.6	20.	23.17	35.28	24.12	381.3	0.078
76.	22.05	35.32			24.47	350.4	30.	22.87	35.29	24.21	373.2	0.116
102.	21.45	35.31			24.63	336.1	50.	22.33	35.30	24.37	358.3	0.190
126.	20.62	35.22			24.78	321.9	75.	22.06	35.32	24.46	350.6	0.279
152.	19.22	35.04			25.01	300.6	100.	21.51	35.31	24.61	337.4	0.366
177.	18.01	34.86			25.18	285.3	150.	19.33	35.06	25.00	302.2	0.527
192.	17.29	34.78			25.29	274.8	200.	16.97	34.74	25.34	270.8	0.672
226.	15.82	34.60			25.50	256.0	250.	14.22	34.46	25.74	243.2	0.799
253.	14.02	34.44			25.77	230.5	300.	12.09	34.25	26.01	208.1	0.910
278.	12.94	34.34			25.91	217.1	400.	9.07	34.08	26.41	170.3	1.101
305.	11.91	34.23			26.03	206.3	500.	6.61	34.00	26.71	141.7	1.258
405.	8.94	34.08			26.43	168.6	600.	5.19	34.10	26.96	116.8	1.389
500.	6.61	34.00			26.71	141.7	700.	4.68	34.21	27.10	104.0	1.501
578.	5.37	34.08			26.93	120.5	800.	4.37	34.30	27.21	94.5	1.601
735.	4.62	34.24			27.14	101.1	1000.	3.73	34.44	27.39	78.4	1.776
891.	4.07	34.37			27.30	86.4	1200.	3.23	34.52	27.50	67.7	1.924
1048.	3.60	34.46			27.42	75.5						
1283.	3.06	34.54			27.53	64.9						

CROMWELL 4, STATION 41, 23-30N LAT, 156-59W LONG, JUNE 5, 1964, 0500 G.C.T.												
DRY BULB	24.0	WET BULB	20.0	WIND SPEED	05, DIR. 20	BAR.	17	WEATHER	01	VIS.	8	CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.58	35.14			23.59	430.6	0.	24.58	35.14	23.59	430.6	0.000
10.	24.15	35.10			23.69	421.6	10.	24.15	35.10	23.69	421.6	0.043
30 ^Δ	23.88	35.12			23.79	413.3	20.	23.96	35.10	23.75	416.8	0.085
52.	23.61	35.18			23.91	402.3	30.	23.88	35.12	23.79	413.3	0.127
78.	23.42	35.20			23.98	396.5	50.	23.63	35.17	23.90	403.2	0.209
104.	22.70	35.18			24.18	379.1	75.	23.45	35.20	23.97	397.3	0.310
129.	22.52	35.18			24.23	375.2	100.	22.81	35.18	24.15	381.7	0.408
154.	20.19	35.08			24.75	322.0	150.	20.61	35.10	24.70	331.0	0.588
181.	18.63	34.93			25.08	295.2	200.	17.41	34.82	25.30	274.6	0.740
196.	17.65	34.85			25.26	278.2	250.	14.13	34.44	25.75	232.3	0.868
230.	15.54	34.60			25.56	250.0	300.	11.62	34.20	26.06	203.1	0.978
256.	13.72	34.40			25.80	227.5	400.	9.00	34.13	26.46	165.7	1.164
282.	12.33	34.24			25.96	212.8	500.	7.17	34.10	26.71	142.1	1.319
308.	11.34	34.19			26.10	199.0	600.	5.89	34.17	26.93	121.1	1.452
408.	8.85	34.13			26.48	163.5	700.	4.99	34.26	27.11	104.0	1.566
506.	7.08	34.10			26.72	140.9	800.	4.40	34.35	27.25	90.9	1.665
604.	5.85	34.17			26.94	120.3	1000.	3.87	34.48	27.41	76.6	1.834
799.	4.40	34.35			27.25	90.9	1200.	3.42	34.55	27.51	67.5	1.980
992.	3.89	34.48			27.41	77.0						
1187.	3.45	34.54*			27.50	68.9						
1479.	2.89	34.59			27.59	60.5						

AFROM BT DATA
 *INTERPOLATED DATA
 ***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 4, STATION 42, 22- ON LAT, 157- 2N LONG, JUNE 5, 1964, 1500 G.C.T.													
DRY BULB 24.8		WET BULB 21.0		WIND SPEED 15, DIR. 05			BAR. 19		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.30	34.71			23.35	453.6	0.	24.30	34.71	23.35	453.6	0.000	
11.	24.31	34.71			23.35	454.3	10.	24.33	34.71	23.35	454.8	0.046	
30.Δ	23.40	34.76			23.66	425.9	20.	23.90	34.73	23.49	441.7	0.091	
50.	23.27	34.79			23.72	420.9	30.	23.40	34.76	23.66	425.9	0.135	
76.	23.03	34.93			23.89	405.1	50.	23.27	34.79	23.72	420.9	0.220	
101.	22.80	35.00			24.01	394.7	75.	23.04	34.92	23.89	405.8	0.324	
126.	22.65	35.07			24.11	386.5	100.	22.81	35.00	24.01	395.1	0.425	
151.	21.92	35.16			24.38	361.2	150.	21.96	35.16	24.37	362.4	0.616	
174.	20.94	35.14			24.64	337.7	200.	20.04	35.08	24.83	320.0	0.788	
191.	20.31	35.10			24.77	325.0	250.	17.39	34.77	25.26	279.9	0.939	
223.	19.16	34.98			24.98	305.9	300.	13.24	34.29	25.81	227.5	1.067	
253.	17.16	34.74			25.30	276.7	400.	9.07	34.15	26.46	165.7	1.265	
277.	15.35	34.57			25.52	249.5	500.	7.15	34.14	26.74	139.0	1.419	
302.	13.06	34.26			25.83	225.9	600.	5.99	34.20	26.94	120.0	1.550	
401.	9.06	34.15			26.46	165.2	700.	5.30	34.30	27.11	104.9	1.663	
502.	7.13	34.14			26.74	138.6	800.	4.87	34.40	27.24	93.1	1.764	
601.	5.98	34.20			26.94	119.8	1000.	4.15	34.49	27.39	79.5	1.938	
802.	4.86	34.40			27.24	92.9	1200.	3.57	34.53	27.48	71.1	2.091	
1001.	4.15	34.49			27.39	79.5							
1200.	3.57	34.53			27.48	71.1							
1497.	2.90	34.58			27.58	61.5							

ΔFROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 5

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 25.0		5, STATION WET BULB 22.2		1, 20-35N LAT, 157-16W LONG, JUNE 16, 1964, 0800 G.C.T.		WIND SPEED 16, DIR. 12 BAR. 17		WEATHER 01		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.77	34.78			22.96	491.2	0.	25.77	34.78	22.96	491.2	0.000	
11.	25.75	34.78			22.97	491.1	10.	25.77	34.78	22.96	491.4	0.049	
30.Δ	24.96	34.76			23.19	470.1	20.	25.39	34.77	23.07	481.5	0.098	
48.	24.88	34.76			23.22	468.5	30.	24.96	34.76	23.19	470.1	0.146	
74.	24.49	34.73			23.31	460.5	50.	24.87	34.75	23.21	469.0	0.241	
98.	23.53	35.15			23.91	404.0	75.	24.46	34.75	23.34	458.3	0.358	
122.	22.41	35.11			24.21	377.0	100.	23.45	35.16	23.94	401.5	0.466	
147.	20.68	35.09			24.67	333.6	150.	20.55	35.08	24.70	330.9	0.651	
170.	19.72	35.02			24.87	315.1	200.	18.2H	34.90	25.15	289.3	0.807	
184.	18.90	34.96			25.03	299.7	250.	14.98	34.53	25.63	243.6	0.941	
217.	17.52	34.82			25.27	278.0	300.	11.79	34.25	26.07	202.6	1.054	
242.	15.41	34.58			25.58	249.0	400.	8.26	34.14	26.58	153.6	1.233	
268.	14.06	34.44			25.76	231.7	500.	6.49	34.20	26.88	125.1	1.374	
292.	12.24	34.28			26.00	208.5	600.	5.76	34.30	27.05	109.8	1.493	
388.	8.58	34.14			26.53	158.2	700.	5.23	34.38	27.18	97.6	1.598	
486.	6.64	34.19			26.85	127.9	800.	4.83	34.45	27.28	88.9	1.692	
583.	5.87	34.28			27.02	112.2	1000.	4.20	34.51	27.39	78.9	1.862	
778.	4.91	34.44			27.26	90.3	1200.	3.58	34.55	27.49	70.0	2.013	
973.	4.30	34.50			27.38	80.3							
1168.	3.63	34.54			27.48	70.9							
1461.	2.92	34.58			27.58	61.5							

CROMWELL DRY BULB 25.2		5, STATION WET BULB 22.4		2, 19- ON LAT, 157- OW LONG, JUNE 16, 1964, 1800 G.C.T.		WIND SPEED 19, DIR. 11 BAR. 16		WEATHER 01		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.	26.02	34.64			22.78	508.7	0.	26.02	34.64	22.78	508.7	0.000	
11.	25.99	34.64			22.79	508.3	10.	25.99	34.64	22.79	508.3	0.051	
30.Δ	25.99	34.64			22.79	509.0	20.	26.01	34.64	22.78	509.3	0.102	
51.	25.55	34.68			22.95	493.9	30.	25.99	34.64	22.79	509.0	0.154	
76.	24.41	35.00			23.54	438.8	50.	25.58	34.68	22.94	495.2	0.255	
101.	23.74	35.15			23.85	410.0	75.	24.46	34.99	23.52	441.1	0.373	
125.	22.41	35.16			24.24	373.5	100.	23.77	35.15	23.84	411.0	0.480	
149.	19.80	34.96			24.80	320.7	150.	19.73	34.96	24.82	319.4	0.664	
176.	17.64	34.74			25.18	285.3	200.	15.14	34.43	25.52	253.3	0.809	
188.	15.90	34.52			25.42	262.4	250.	12.18	34.23	25.98	210.0	0.925	
223.	14.32	34.36			25.64	241.6	300.	9.95	34.18	26.34	175.5	1.023	
250.	12.18	34.23			25.98	210.0	400.	7.73	34.16	26.68	144.2	1.184	
276.	11.10	34.20			26.15	193.2	500.	6.06	34.16	26.90	122.5	1.318	
300.	9.95	34.18			26.34	175.5	600.	5.67	34.33	27.09	106.1	1.434	
400.	7.73	34.16			26.68	144.2	700.	5.24	34.42	27.21	95.0	1.536	
500.	6.06	34.16			26.90	122.5	800.	4.80	34.47	27.30	87.0	1.628	
600.	5.67	34.33			27.09	106.1	1000.	4.03	34.54	27.44	74.3	1.791	
800.	4.80	34.47			27.30	87.0	1200.	3.52	34.57	27.51	67.6	1.934	
1000.	4.03	34.54			27.44	74.3	1500.	2.79	34.61	27.61	58.0	2.125	
1200.	3.52	34.57			27.51	67.6							
1500.	2.79	34.61			27.61	58.0							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25

CROMWELL DRY BULB 25.1		5, STATION WET BULB 22.5		3, 17-30N LAT, 157- OW LONG, JUNE 17, 1964, 0300 G.C.T.		WIND SPEED 22, DIR. 08 BAR. 15		WEATHER 00		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.09	34.64			23.06	481.4	0.	25.09	34.64	23.06	481.4	0.000	
9.	25.09	34.65			23.07	481.0	10.	25.09	34.65	23.07	481.0	0.048	
30.Δ	25.09	34.65			23.07	481.8	20.	25.09	34.65	23.07	481.3	0.097	
48.	25.06	34.65			23.08	481.7	30.	25.09	34.65	23.07	481.8	0.145	
72.	24.05	34.69			23.41	450.7	50.	24.98	34.65	23.10	479.7	0.242	
95.	24.00	35.08			23.72	422.1	75.	24.04	34.74	23.45	446.9	0.359	
119.	23.11	35.13			24.02	394.6	100.	23.91	35.11	23.77	417.4	0.468	
143.	20.81	35.00			24.56	343.3	150.	20.36	34.98	24.67	333.1	0.657	
168.	19.42	34.93			24.88	314.1	200.	17.38	34.70	25.21	282.8	0.812	
181.	18.80	34.84			24.97	305.8	250.	13.12	34.31	25.86	221.8	0.939	
214.	16.19	34.60			25.42	263.7	300.	10.98	34.23	26.20	189.7	1.043	
239.	14.26	34.42			25.70	236.5	400.	8.32	34.25	26.66	146.2	1.213	
262.	12.04	34.22			26.00	208.4	500.	6.89	34.27	26.88	125.7	1.350	
285.	11.43	34.22			26.11	197.8	600.	6.26	34.40	27.07	108.7	1.468	
382.	8.70	34.26			26.61	151.1	700.	5.68	34.46	27.18	98.2	1.573	
477.	7.10	34.24			26.83	130.4	800.	5.15	34.48	27.27	90.6	1.668	
573.	6.43	34.38			27.03	112.2	1000.	4.26	34.53	27.40	78.1	1.839	
765.	5.34	34.47			27.24	93.5	1200.	3.57	34.55	27.50	69.3	1.988	
956.	4.42	34.52			27.38	80.1							
1148.	3.78	34.54			27.46	72.5							
1438.	2.93	34.58			27.58	61.5							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 4, 16- 0N LAT, 156-59W LONG, JUNE 17, 1964, 1300 G.C.T.												
DRY BULB 25.1		WET BULB 22.3		WIND SPEED 19, DIR. 08		BAR. 14		WEATHER 00		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.30	34.57			22.95	492.5	0.	25.30	34.57	22.95	492.5	0.000
10.	25.32	34.57			22.94	493.5	10.	25.32	34.57	22.94	493.5	0.050
30.Δ	25.32	34.57			22.94	494.3	20.	25.32	34.57	22.94	494.0	0.099
50.Δ	25.32	34.57			22.94	495.1	30.	25.32	34.57	22.94	494.3	0.149
76.	24.21	34.65			23.34	458.3	50.	25.32	34.57	22.94	495.1	0.249
100.	23.01	34.92			23.89	406.2	75.	24.27	34.64	23.31	460.3	0.369
126.	21.77	35.02			24.32	366.4	100.	23.01	34.92	23.89	406.2	0.478
151.	19.92	35.02			24.82	319.4	150.	20.01	35.02	24.80	321.4	0.662
176.	16.74	34.62			25.30	273.4	200.	14.93	34.45	25.58	247.3	0.805
191.	15.64	34.51			25.47	257.6	250.	11.26	34.25	26.17	191.7	0.916
224.	13.05	34.31			25.87	220.0	300.	9.76	34.29	26.46	164.1	1.005
251.	11.20	34.25			26.18	190.7	400.	8.46	34.48	26.82	131.6	1.155
277.	10.29	34.22			26.31	177.8	500.	7.23	34.46	26.98	116.2	1.280
302.	9.72	34.30			26.47	162.9	600.	6.31	34.48	27.12	103.6	1.391
402.	8.44	34.48			26.82	131.2	700.	5.74	34.50	27.21	95.7	1.491
504.	7.10	34.46			26.95	115.7	800.	5.32	34.52	27.28	90.1	1.585
604.	6.28	34.48			27.13	103.2	1000.	4.47	34.55	27.40	79.0	1.756
807.	5.30	34.52			27.28	89.8	1200.	3.80	34.52	27.45	74.6	1.912
1008.	4.44	34.55			27.40	78.7	1500.	3.02	34.61	27.59	61.0	2.118
1208.	3.78	34.52			27.45	74.5						
1510.	3.00	34.61			27.60	60.6						

CROMWELL 5, STATION 5, 14-30N LAT, 157- 0W LONG, JUNE 17, 1964, 2300 G.C.T.												
DRY BULB 26.0		WET BULB 22.5		WIND SPEED 22, DIR. 07		BAR. 15		WEATHER 03		VIS. 7 CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.54	34.58			22.88	498.8	0.	25.54	34.58	22.88	498.8	0.000
10.	25.49	34.58			22.90	497.8	10.	25.49	34.58	22.90	497.8	0.050
30.Δ	25.49	34.58			22.90	498.5	20.	25.48	34.58	22.90	497.9	0.100
50.Δ	25.49	34.58			22.90	499.3	30.	25.49	34.58	22.90	498.5	0.151
75.	24.36	34.58			23.24	467.6	50.	25.49	34.58	22.90	499.3	0.251
100.	22.79	34.97			23.99	396.6	75.	24.36	34.58	23.24	467.6	0.373
125.	20.98	35.06			24.56	342.7	100.	22.79	34.97	23.99	396.6	0.482
150.	19.32	34.99			24.95	306.6	150.	19.32	34.99	24.95	306.6	0.659
175.	15.93	34.58			25.46	258.3	200.	13.00	34.42	25.97	210.1	0.789
190.	13.97	34.36			25.80	225.6	250.	10.34	34.44	26.48	161.9	0.883
223.	12.39	34.65			26.26	182.5	300.	10.33	34.66	26.65	146.5	0.961
250.	10.34	34.44			26.48	161.9	400.	9.36	34.64	26.80	134.0	1.102
275.	10.56	34.67			26.62	149.3	500.	8.29	34.58	26.92	123.3	1.232
301.	10.32	34.66			26.65	146.5	600.	7.29	34.54	27.04	112.9	1.351
401.	9.35	34.64			26.80	133.9	700.	6.42	34.52	27.14	103.3	1.460
501.	8.28	34.58			26.92	123.2	800.	5.69	34.52	27.23	94.8	1.561
601.	7.26	34.54			27.04	112.8	1000.	4.68	34.54	27.37	82.4	1.740
801.	5.68	34.52			27.24	94.7	1200.	3.91	34.56	27.47	73.1	1.897
1002.	4.67	34.54			27.37	82.3	1500.	3.06	34.60	27.58	61.9	2.103
1201.	3.91	34.56			27.47	73.1						
1503.	3.05	34.60			27.58	61.9						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25
 SALINITY ERROR TERM AT 200. METERS IS 0.06

CROMWELL 5, STATION 6, 13- 0N LAT, 157- 1W LONG, JUNE 18, 1964, 0900 G.C.T.												
DRY BULB 26.1		WET BULB 22.7		WIND SPEED 21, DIR. 07		BAR. 15		WEATHER 01		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.57	34.74			22.68	518.0	0.	26.57	34.74	22.68	518.0	0.000
9.	26.60	34.74			22.67	519.3	10.	26.60	34.74	22.67	519.3	0.052
30.Δ	26.60	34.74			22.67	520.1	20.	26.61	34.74	22.67	519.9	0.105
50.Δ	26.60	34.74			22.67	520.9	30.	26.60	34.74	22.67	520.1	0.157
70.	26.57	34.74			22.68	520.8	50.	26.60	34.74	22.67	520.9	0.262
93.	24.72	34.50			23.07	484.4	75.	26.19	34.68	22.76	513.6	0.392
100.Δ	24.46	34.50			23.15	477.2	100.	24.46	34.50	23.15	477.2	0.517
117.	21.00	34.60			24.21	376.2	150.	12.29	34.31	26.01	204.1	0.689
141.	13.40	34.38			25.85	219.5	200.	10.33	34.33	26.39	169.0	0.783
164.	11.57	34.24			26.10	196.0	250.	9.29	34.37	26.60	149.6	0.863
178.	11.05	34.28			26.23	184.2	300.	8.87	34.44	26.72	138.7	0.936
209.	10.09	34.34			26.44	164.1	400.	8.27	34.55	26.90	123.4	1.068
234.	9.62	34.36			26.54	155.5	500.	7.41	34.51	27.00	115.2	1.188
257.	9.17	34.38			26.63	147.3	600.	6.60	34.50	27.10	106.0	1.300
281.	8.98	34.41			26.68	142.5	700.	5.95	34.51	27.19	97.8	1.403
375.	8.46	34.55			26.87	125.9	800.	5.42	34.53	27.27	90.9	1.498
469.	7.68	34.52			26.96	118.0	1000.	4.60	34.54	27.38	81.1	1.672
564.	6.87	34.50			27.06	109.3	1200.	3.88	34.56	27.47	72.9	1.828
754.	5.65	34.52			27.24	93.7						
943.	4.82	34.54			27.35	83.6						
1133.	4.12	34.55			27.44	75.9						
1424.	3.20	34.57			27.55	65.4						

TEMPERATURE ERROR TERM AT 150. METERS IS 0.16

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 7, 11-24N LAT, 157- 0W LONG, JUNE 18, 1964, 1800 G.C.T.												
DRY BULB 26.7		WET BULB 23.7		WIND SPEED 16, DIR. 08		BAR. 14		WEATHER 03		VIS. 6 CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.93	34.64			22.49	536.1	0.	26.93	34.64	22.49	536.1	0.000
10.	26.91	34.64			22.50	535.9	10.	26.91	34.64	22.50	535.9	0.054
30.Δ	26.92	34.64			22.49	537.0	20.	26.91	34.64	22.50	536.3	0.108
50.Δ	26.93	34.64			22.49	538.1	30.	26.92	34.64	22.49	537.0	0.162
73.	26.94	34.66			22.50	537.9	50.	26.93	34.64	22.49	538.1	0.270
97.	22.62	34.66			23.81	414.2	75.	26.70	34.66	22.58	530.4	0.405
121.	16.62	34.56			25.29	273.3	100.	21.86	34.66	24.01	394.3	0.521
145.	12.49	34.26			25.94	-211.0	150.	12.15	34.29	26.03	202.6	0.672
170.	11.56	34.48			26.29	178.4	200.	11.12	34.61	26.47	161.8	0.764
183.	11.24	34.52			26.38	170.0	250.	10.52	34.67	26.63	147.8	0.842
216.	11.07	34.68			26.53	156.1	300.	9.99	34.68	26.72	139.5	0.914
242.	10.60	34.67			26.61	149.2	400.	9.01	34.63	26.85	128.7	1.050
268.	10.37	34.68			26.66	145.1	500.	8.19	34.59	26.95	120.9	1.175
291.	10.09	34.68			26.71	140.9	600.	7.24	34.55	27.06	111.1	1.293
387.	9.11	34.64			26.84	129.7	700.	6.47	34.54	27.15	103.1	1.401
485.	8.34	34.60			26.93	122.4	800.	5.82	34.53	27.23	95.9	1.502
581.	7.40	34.53			27.04	112.8	1000.	4.74	34.54	27.36	83.0	1.682
777.	5.97	34.53			27.21	97.6	1200.	3.92	34.56	27.47	73.1	1.840
972.	4.86	34.54			27.35	84.4						
1167.	4.10	34.56			27.45	75.2						
1462.	3.13	34.60			27.58	62.6						

CROMWELL 5, STATION 7A, 9-55N LAT, 154- 2W LONG, JUNE 19, 1964, 1500 G.C.T.												
DRY BULB 25.7		WET BULB 23.4		WIND SPEED 16, DIR. 09		BAR. 11		WEATHER 02		VIS. 7 CLOUD TYPE 4, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.86	34.16			22.15	568.5	0.	26.86	34.16	22.15	568.5	0.000
10.	26.85	34.16			22.16	568.6	10.	26.85	34.16	22.16	568.6	0.057
30.Δ	26.85	34.16			22.16	569.4	20.	26.93	34.14	22.11	573.0	0.115
50.	25.59	34.52			22.82	506.6	30.	26.85	34.16	22.16	569.4	0.172
59.	24.93	34.58			23.07	483.4	50.	25.59	34.52	22.82	506.6	0.281
69.	20.22	34.76			24.54	342.9	75.	19.19	34.80	24.84	314.4	0.384
79.	18.66	34.78			24.96	303.3	100.	13.88	34.34	25.73	230.4	0.453
88.	15.96	34.52			25.41	260.7	150.	11.64	34.77	26.50	158.1	0.551
98.	14.12	34.36			25.69	234.1	200.	10.81	34.74	26.63	146.8	0.627
108.	13.12	34.32			25.86	217.6	250.	10.35	34.72	26.69	141.6	0.700
147.	11.71	34.76			26.48	160.0	300.	9.90	34.70	26.75	136.4	0.770
197.	10.84	34.74			26.62	147.2	400.	9.04	34.66	26.86	127.5	0.904
247.	10.38	34.72			26.69	141.9	500.	8.17	34.62	26.97	118.8	1.028
296.	9.94	34.70			26.75	137.0	600.	7.03	34.58	27.10	106.4	1.142
395.	9.08	34.66			26.86	127.9	700.	6.14	34.56	27.21	96.6	1.244
493.	8.25	34.62			26.96	119.7	800.	5.44	34.56	27.30	88.5	1.338
592.	7.11	34.58			27.09	107.3	1000.	4.41	34.58	27.43	76.0	1.504
790.	5.50	34.56			27.29	89.2	1200.	3.69	34.60	27.52	67.5	1.649
988.	4.46	34.58			27.42	76.5						
1186.	3.78	34.60			27.51	68.4						
1485.	3.04	34.62			27.60	60.1						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.19

CROMWELL 5, STATION 8, 11-30N LAT, 154- 0W LONG, JUNE 20, 1964, 0100 G.C.T.												
DRY BULB 26.4		WET BULB 24.1		WIND SPEED 18, DIR. 06		BAR. 11		WEATHER 50		VIS. 7 CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.71	34.58			22.52	533.7	0.	26.71	34.58	22.52	533.7	0.000
10.	26.70	34.58			22.52	533.8	10.	26.70	34.58	22.52	533.8	0.054
30.Δ	26.64	34.59			22.55	532.1	20.	26.67	34.58	22.53	533.1	0.108
50.Δ	26.58	34.60			22.57	530.4	30.	26.64	34.59	22.55	532.1	0.161
75.Δ	26.46	34.60			22.61	527.8	50.	26.58	34.60	22.57	530.4	0.268
80.	25.80	34.62			22.83	506.8	75.	26.46	34.60	22.61	527.8	0.401
91.	22.00	34.71			24.03	392.2	100.	20.95	34.81	24.39	358.8	0.513
101.	20.89	34.82			24.41	356.9	150.	15.16	34.46	25.54	249.7	0.666
110.	20.04	34.84			24.65	334.0	200.	13.14	34.72	26.17	191.1	0.778
120.	19.01	34.81			24.89	311.0	250.	11.62	34.72	26.46	163.8	0.867
130.	17.92	34.76			25.15	286.6	300.	10.41	34.62	26.60	150.9	0.946
140.	16.65	34.66			25.35	267.3	400.	8.95	34.60	26.83	130.3	1.088
150.	15.16	34.46			25.54	249.7	500.	7.71	34.54	26.98	117.5	1.213
200.	13.14	34.72			26.17	191.1	600.	6.86	34.52	27.08	108.2	1.327
250.	11.62	34.72			26.46	163.8	700.	6.06	34.52	27.19	98.5	1.432
300.	10.41	34.62			26.60	150.9	800.	5.36	34.53	27.28	89.8	1.527
399.	8.96	34.60			26.83	130.5	1000.	4.44	34.55	27.40	78.7	1.697
500.	7.71	34.54			26.98	117.5	1200.	3.64	34.58	27.51	68.4	1.846
600.	6.86	34.52			27.08	108.2	1500.	2.85	34.60	27.60	59.4	2.041
799.	5.37	34.53			27.28	89.8						
1001.	4.44	34.55			27.40	78.6						
1201.	3.64	34.58			27.51	68.3						
1500.	2.85	34.60			27.60	59.4						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 5, STATION 9, 13- 14N LAT, 154- 04N LONG, JUNE 20, 1964, 1000 G.C.T.												
DRY BULB 26.2	WET BULB 22.8	WIND SPEED 18, DIR. 05	BAR. 14	WEATHER 50	VIS. 7	CLOUD TYPE 6, COVER 6						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.42	34.64			22.65	520.7	0.	26.42	34.64	22.65	520.7	0.000
10.	26.41	34.64			22.66	520.8	10.	26.41	34.64	22.66	520.8	0.052
30.Δ	26.36	34.64			22.67	520.1	20.	26.39	34.64	22.66	520.5	0.105
50.Δ	26.30	34.64			22.69	519.1	30.	26.36	34.64	22.67	520.1	0.157
75.	24.00	34.64			23.39	453.0	50.	26.30	34.64	22.69	519.1	0.262
80.	23.48	34.66			23.56	437.2	75.	24.00	34.64	23.39	453.0	0.384
90.	23.16	34.84			23.79	415.7	100.	22.02	34.94	24.19	377.9	0.489
100.	22.02	34.94			24.19	377.9	150.	18.01	34.85	25.17	285.2	0.656
110.	21.07	35.06			24.54	344.5	200.	12.18	34.27	26.01	205.8	0.780
120.	20.49	35.09			24.72	327.7	250.	10.16	34.40	26.48	161.4	0.872
130.	19.68	35.02			24.88	312.7	300.	9.83	34.57	26.67	144.7	0.950
140.	18.78	34.92			25.03	298.1	400.	8.52	34.56	26.87	126.5	1.087
150.	18.01	34.85			25.17	285.2	500.	7.63	34.56	27.00	114.9	1.208
200.	12.18	34.27			26.01	205.8	600.	6.67	34.52	27.11	105.5	1.320
249.	10.17	34.40			26.47	161.9	700.	5.97	34.52	27.20	97.2	1.422
299.	9.84	34.57			26.66	145.0	800.	5.43	34.54	27.28	89.9	1.517
400.	8.52	34.56			26.87	126.5	1000.	4.58	34.57	27.40	78.9	1.688
499.	7.64	34.56			27.00	115.0	1200.	3.87	34.59	27.49	70.6	1.839
600.	6.67	34.52			27.11	105.5	1500.	3.04	34.62	27.60	60.2	2.038
798.	5.44	34.54			27.28	90.0						
998.	4.59	34.57			27.40	79.0						
1199.	3.88	34.58			27.49	71.2						
1500.	3.04	34.62			27.60	60.2						

CROMWELL 5, STATION 10, 14-30N LAT, 154- 04N LONG, JUNE 20, 1964, 1900 G.C.T.												
DRY BULB 25.7	WET BULB 22.8	WIND SPEED 14, DIR. 04	BAR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 4						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.48	34.54			22.87	499.9	0.	25.48	34.54	22.87	499.9	0.000
10.	25.46	34.54			22.87	499.8	10.	25.46	34.54	22.87	499.8	0.050
30.Δ	25.47	34.54			22.87	500.8	20.	25.46	34.54	22.87	500.2	0.101
50.	25.49	34.54			22.87	502.2	30.	25.47	34.54	22.87	500.8	0.151
75.	22.83	34.70			23.78	416.2	50.	25.49	34.54	22.87	502.2	0.252
100.	20.09	34.75			24.57	341.4	75.	22.83	34.70	23.78	416.2	0.368
124.	18.33	34.81			25.06	294.8	100.	20.09	34.75	24.57	341.4	0.463
148.	15.50	34.57			25.55	248.9	150.	15.38	34.56	25.57	247.2	0.612
173.	14.22	34.44			25.73	232.4	200.	12.18	34.29	26.02	204.3	0.725
188.	13.08	34.33			25.88	218.2	250.	10.34	34.44	26.48	161.8	0.818
220.	10.99	34.30			26.25	182.7	300.	9.95	34.62	26.69	142.8	0.895
246.	10.41	34.42			26.45	164.4	400.	8.63	34.60	26.88	125.6	1.030
272.	10.05	34.54			26.60	150.1	500.	7.77	34.55	26.97	117.8	1.153
296.	9.99	34.62			26.68	143.7	600.	6.90	34.53	27.08	108.1	1.267
394.	8.69	34.60			26.87	126.1	700.	6.16	34.52	27.17	99.8	1.372
493.	7.83	34.55			26.97	118.4	800.	5.52	34.52	27.25	92.6	1.469
592.	6.96	34.53			27.08	108.8	1000.	4.52	34.54	27.39	80.2	1.644
789.	5.59	34.52			27.25	93.4	1200.	3.81	34.56	27.48	71.6	1.798
986.	4.57	34.54			27.38	80.9						
1184.	3.92	34.56			27.47	73.1						
1481.	3.11	34.60			27.58	62.4						

CROMWELL 5, STATION 11, 16- 4N LAT, 154- 14N LONG, JUNE 21, 1964, 0600 G.C.T.												
DRY BULB 25.3	WET BULB 22.8	WIND SPEED 15, DIR. 02	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6						
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.11	34.76			22.84	502.7	0.	26.11	34.76	22.84	502.7	0.000
10.	26.01	34.78			22.89	498.7	10.	26.01	34.78	22.89	498.7	0.050
30.Δ	26.03	34.77			22.87	500.9	20.	26.00	34.78	22.89	499.0	0.101
50.Δ	26.04	34.77			22.87	502.0	30.	26.03	34.77	22.87	500.9	0.151
75.	26.06	34.76			22.86	504.3	50.	26.04	34.77	22.87	502.0	0.252
100.	23.25	34.70			23.65	428.7	75.	26.06	34.76	22.86	504.3	0.379
124.	21.04	34.82			24.37	361.6	100.	23.25	34.70	23.65	428.7	0.496
149.	17.93	34.74			25.11	291.2	150.	17.77	34.72	25.13	288.8	0.677
173.	14.64	34.38			25.59	245.4	200.	12.84	34.30	25.90	216.1	0.804
188.	13.75	34.37			25.77	228.4	250.	10.18	34.21	26.32	176.4	0.903
220.	11.39	34.18			26.09	198.5	300.	9.40	34.37	26.58	152.6	0.986
247.	10.27	34.20			26.30	178.3	400.	8.38	34.50	26.85	128.6	1.128
272.	9.68	34.26			26.45	164.6	500.	7.44	34.51	26.99	115.8	1.251
297.	9.43	34.36			26.57	153.7	600.	6.73	34.50	27.08	107.9	1.364
394.	8.44	34.50			26.84	129.6	700.	6.06	34.50	27.17	100.2	1.470
493.	7.48	34.51			26.99	116.2	800.	5.52	34.50	27.24	94.0	1.568
593.	6.78	34.50			27.08	108.5	1000.	4.96	34.52	27.32	87.5	1.751
793.	5.54	34.50			27.24	94.2	1200.	4.13	34.55	27.44	76.4	1.917
993.	5.00	34.52			27.32	87.9						
1191.	3.98	34.56			27.46	73.9						
1489.	3.17	34.59			27.56	64.0						

TEMPERATURE ERROR TERM AT 1200. METERS IS 0.13

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA		
CROMWELL 5, STATION 12, 17-31N LAT, 154-0W LONG, JUNE 21, 1964, 1500 G.C.T.														
DRY BULB	24.4	WET BULB	20.7	WIND SPEED	15, DIR. 02	BAR.	15	WEATHER	01	VIS.	7	CLOUD TYPE	, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.73	34.70			22.91	495.8	0.	25.73	34.70	22.91	495.8	0.000		
10.	25.77	34.69			22.89	498.1	10.	25.77	34.69	22.89	498.1	0.050		
30.	25.70	34.69			22.91	496.8	20.	25.81	34.69	22.88	499.7	0.100		
50.	24.68	34.69			23.23	467.9	30.	25.70	34.69	22.91	496.8	0.150		
74.	25.03	34.60			23.05	485.4	50.	24.68	34.69	23.23	467.9	0.248		
98.	23.31	34.70			23.64	430.3	75.	24.97	34.60	23.07	483.7	0.368		
123.	22.23	34.98			24.16	381.5	100.	23.21	34.72	23.68	426.0	0.482		
149.	21.27	35.14			24.55	345.4	150.	21.19	35.14	24.57	343.6	0.676		
173.	19.26	34.98			24.96	306.7	200.	17.65	34.77	25.20	283.8	0.834		
188.	18.48	34.89			25.09	294.7	250.	12.10	34.20	25.97	211.0	0.959		
220.	15.80	34.54			25.46	259.7	300.	10.16	34.32	26.41	168.9	1.055		
247.	12.27	34.20			25.94	213.8	400.	8.41	34.43	26.79	134.4	1.208		
272.	11.32	34.25			26.15	193.4	500.	7.17	34.44	26.98	116.9	1.335		
296.	10.28	34.31			26.39	171.4	600.	6.47	34.46	27.09	107.1	1.448		
395.	8.49	34.43			26.77	135.6	700.	5.82	34.48	27.19	98.2	1.551		
494.	7.22	34.44			26.97	117.6	800.	5.26	34.50	27.27	90.5	1.647		
594.	6.51	34.46			27.08	107.7	1000.	4.44	34.54	27.40	79.3	1.819		
792.	5.30	34.50			27.27	91.1	1200.	3.79	34.57	27.48	71.1	1.971		
992.	4.47	34.54			27.39	79.7								
1190.	3.85	34.56			27.47	72.3								
1489.	3.03	34.60			27.59	61.5								

CROMWELL 5, STATION 13, 18-58N LAT, 153-58W LONG, JUNE 21, 1964, 2300 G.C.T.													
DRY BULB	25.2	WET BULB	22.3	WIND SPEED	16, DIR. 04	BAR.	17	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER 5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.41	34.65			22.97	490.0	0.	25.41	34.65	22.97	490.0	0.000	
9.	25.35	34.64			22.98	489.3	10.	25.35	34.64	22.98	489.4	0.049	
30.	25.20	34.64			23.03	485.7	20.	25.30	34.63	22.99	489.1	0.099	
48.	24.70	34.76			23.27	463.3	30.	25.20	34.64	23.03	485.7	0.148	
73.	23.55	34.83			23.67	426.6	50.	24.61	34.77	23.30	460.3	0.243	
96.	23.00	34.95			23.92	403.6	75.	23.50	34.84	23.69	424.5	0.354	
119.	21.97	34.93			24.19	378.0	100.	22.83	34.94	23.96	399.5	0.458	
144.	21.18	35.15			24.58	342.1	150.	20.82	35.13	24.66	334.7	0.643	
167.	19.84	35.02			24.84	318.0	200.	18.51	34.91	25.09	294.4	0.802	
181.	19.45	35.00			24.92	310.2	250.	14.60	34.41	25.62	244.6	0.938	
212.	17.75	34.82			25.21	283.3	300.	11.40	34.23	26.13	196.6	1.049	
238.	15.89	34.56			25.45	260.8	400.	8.48	34.23	26.62	150.4	1.224	
259.	13.65	34.31			25.75	232.7	500.	6.67	34.23	26.88	125.6	1.363	
282.	12.21	34.25			25.99	209.9	600.	5.82	34.31	27.05	109.3	1.482	
374.	9.15	34.24			26.52	159.5	700.	5.34	34.39	27.18	98.3	1.587	
467.	7.12	34.21			26.80	132.8	800.	4.90	34.46	27.28	89.3	1.682	
560.	6.08	34.28			27.00	114.7	1000.	4.04	34.51	27.42	76.4	1.849	
749.	5.18	34.43			27.22	94.2	1200.	3.49	34.55	27.50	68.7	1.996	
934.	4.23	34.50			27.39	79.1							
1120.	3.79	34.53			27.46	73.2							
1404.	3.14	34.57			27.55	64.5							

CROMWELL 5, STATION 14, 20-30N LAT, 153-57W LONG, JUNE 22, 1964, 1000 G.C.T.													
DRY BULB	24.0	WET BULB	21.6	WIND SPEED	15, DIR. 04	BAR.	19	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.	25.00	34.84			23.24	464.3	0.	25.00	34.84	23.24	464.3	0.000	
10.	24.97	34.84			23.25	463.9	10.	24.97	34.84	23.25	463.9	0.047	
30.	24.66	34.87			23.37	453.5	20.	24.89	34.85	23.28	461.5	0.093	
51.	23.44	35.02			23.84	409.0	30.	24.66	34.87	23.37	453.5	0.139	
76.	23.07	35.04			23.96	398.3	50.	23.50	35.01	23.82	411.2	0.227	
100.	22.64	35.09			24.13	383.8	75.	23.07	35.04	23.96	398.3	0.328	
125.	22.49	35.15			24.21	376.4	100.	22.64	35.09	24.13	383.8	0.427	
150.	21.64	35.16			24.46	353.7	150.	21.64	35.16	24.46	353.7	0.613	
174.	20.79	35.17			24.70	331.6	200.	19.40	35.01	24.94	309.1	0.780	
189.	20.07	35.08			24.82	320.2	250.	15.85	34.57	25.47	259.4	0.923	
224.	17.74	34.82			25.22	283.4	300.	11.91	34.20	26.00	208.4	1.041	
249.	15.93	34.58			25.46	260.5	400.	8.23	34.18	26.62	150.0	1.222	
276.	13.67	34.34			25.76	231.4	500.	7.64	34.38	26.86	128.3	1.362	
300.	11.91	34.20			26.00	208.4	600.	6.47	34.43	27.06	109.4	1.482	
399.	8.24	34.18			26.61	150.3	700.	5.84	34.47	27.17	99.4	1.588	
500.	7.64	34.38			26.86	128.3	800.	5.46	34.50	27.25	93.3	1.685	
601.	6.46	34.43			27.06	109.3	1000.	4.60	34.53	27.37	82.1	1.863	
803.	5.45	34.50			27.25	93.1	1200.	3.98	34.56	27.46	74.0	2.021	
1004.	4.58	34.53			27.37	81.9	1500.	3.13	34.60	27.58	62.9	2.229	
1204.	3.97	34.56			27.46	73.9							
1505.	3.12	34.60			27.58	62.7							

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA							
CROMWELL 5, STATION 15, 21-58N LAT, 153-59W LONG, JUNE 22, 1964, 1900 G.C.T.														
DRY BULB	24.6	WET BULB	21.7	WIND SPEED	18, DIR. 05	BAR.	15	WEATHER	03	VIS.	7	CLOUD TYPE	4, COVER	5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.59	34.86			23.38	451.1	0.	24.59	34.86	23.38	451.1	0.000		
10.	24.57	34.88			23.40	449.4	10.	24.57	34.88	23.40	449.4	0.045		
30.Δ	24.46	34.88			23.43	447.1	20.	24.62	34.86	23.38	452.4	0.091		
49.	22.91	35.16			24.10	384.2	30.	24.46	34.88	23.43	447.1	0.136		
74.	22.60	35.18			24.20	375.2	50.	22.88	35.16	24.11	383.1	0.220		
99.	22.18	35.22			24.35	361.9	75.	22.99	35.18	24.21	374.8	0.315		
124.	21.60	35.24			24.53	345.9	100.	22.16	35.22	24.36	361.4	0.408		
149.	20.64	35.20			24.76	324.7	150.	20.62	35.20	24.77	324.2	0.581		
174.	19.97	35.15			24.90	312.1	200.	18.65	34.95	25.09	295.3	0.737		
189.	19.18	35.02			25.01	302.4	250.	15.43	34.95	25.09	251.9	0.875		
223.	17.42	34.79			25.27	278.1	300.	12.99	34.26	25.96	213.1	0.992		
249.	15.51	34.56			25.54	252.8	400.	9.23	34.12	26.41	170.3	1.185		
274.	13.57	34.32			25.77	230.8	500.	6.94	34.11	26.75	138.1	1.341		
299.	12.43	34.26			25.95	213.7	600.	5.42	34.17	26.99	114.6	1.469		
397.	9.31	34.12			26.40	171.4	700.	4.69	34.27	27.15	99.8	1.577		
498.	6.98	34.11			26.74	138.7	800.	4.37	34.36	27.26	89.8	1.673		
598.	5.44	34.17			26.99	115.0	1000.	3.91	34.48	27.40	77.3	1.842		
798.	4.38	34.36			27.26	90.0	1200.	3.47	34.54	27.49	69.3	1.990		
997.	3.92	34.48			27.40	77.4								
1197.	3.48	34.52			27.48	70.8								
1497.	2.83	34.58			27.59	60.6								

CROMWELL 5, STATION 16, 23-32N LAT, 153-58W LONG, JUNE 23, 1964, 0400 G.C.T.														
DRY BULB	24.0	WET BULB	21.0	WIND SPEED	16, DIR. 03	BAR.	17	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.	24.44	35.01			23.54	436.0	0.	24.44	35.01	23.54	436.0	0.000		
10.	24.44	35.04			23.56	434.2	10.	24.44	35.04	23.56	434.2	0.044		
30.Δ	24.28	35.05			23.62	429.7	20.	24.43	35.05	23.57	433.7	0.088		
50.	23.21	35.08			23.95	398.3	30.	24.28	35.05	23.62	429.7	0.131		
74.	22.74	35.17			24.16	379.8	50.	23.21	35.08	23.95	398.3	0.214		
100.	22.07	35.24			24.40	357.6	75.	22.72	35.17	24.17	379.0	0.312		
125.	21.14	35.20			24.63	336.8	100.	22.07	35.24	24.40	357.6	0.405		
150.	20.14	35.12			24.84	317.7	150.	20.14	35.12	24.84	317.7	0.575		
174.	18.83	34.98			25.07	296.2	200.	17.78	34.85	25.23	281.1	0.726		
189.	18.38	34.92			25.14	290.2	250.	15.05	34.54	25.63	244.5	0.859		
223.	16.36	34.70			25.45	260.5	300.	12.02	34.23	26.01	208.3	0.973		
250.	15.05	34.54			25.63	244.5	400.	9.01	34.09	26.42	168.9	1.163		
276.	12.90	34.30			25.89	219.2	500.	6.60	34.06	26.75	137.2	1.318		
299.	12.05	34.23			26.00	208.8	600.	5.35	34.12	26.96	117.9	1.446		
400.	9.01	34.09			26.42	168.9	700.	4.67	34.25	27.14	101.0	1.557		
502.	6.56	34.06			26.76	136.6	800.	4.28	34.38	27.29	87.2	1.652		
604.	5.32	34.12			26.96	117.2	1000.	3.77	34.51	27.44	73.5	1.815		
813.	4.25	34.40			27.30	85.6	1200.	3.30	34.57	27.54	64.9	1.955		
1004.	3.76	34.51			27.44	73.3								
1190.	3.32	34.56			27.53	65.9								
1474.	2.71	34.60			27.61	57.6								

CROMWELL 5, STATION 17, 23-28N LAT, 150-58W LONG, JUNE 23, 1964, 2300 G.C.T.														
DRY BULB	22.8	WET BULB	20.5	WIND SPEED	17, DIR. 09	BAR.	17	WEATHER	52	VIS.	7	CLOUD TYPE	9, COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	24.14	35.12			23.71	419.5	0.	24.14	35.12	23.71	419.5	0.000		
9.	24.10	35.12			23.72	418.7	10.	24.12	35.12	23.72	419.5	0.042		
30.Δ	24.04	35.12			23.74	417.8	20.	24.21	35.11	23.68	422.8	0.085		
44.	22.74	35.20			24.18	376.5	30.	24.04	35.12	23.74	417.8	0.127		
68.	21.98	35.27			24.45	351.8	50.	22.47	35.22	24.28	367.5	0.206		
90.	21.23	35.27			24.66	332.8	75.	21.73	35.27	24.52	345.1	0.296		
111.	20.76	35.26			24.78	322.1	100.	21.03	35.28	24.72	327.5	0.381		
133.	19.66	35.09			24.94	307.2	150.	18.83	34.98	25.06	295.6	0.538		
156.	18.54	34.94			25.11	291.5	200.	16.64	34.71	25.40	265.1	0.679		
169.	17.88	34.86			25.21	282.0	250.	13.39	34.33	25.81	226.0	0.803		
199.	16.69	34.72			25.39	265.7	300.	11.42	34.18	26.08	200.8	0.910		
227.	15.10	34.53			25.61	245.6	400.	8.83	34.06	26.43	168.2	1.096		
246.	13.61	34.35			25.79	228.6	500.	6.74	34.04	26.72	140.4	1.252		
269.	12.54	34.26			25.93	215.0	600.	5.36	34.13	26.97	116.8	1.382		
359.	9.79	34.10			26.31	180.0	700.	4.76	34.27	27.15	99.9	1.492		
450.	7.80	34.04			26.57	154.9	800.	4.38	34.38	27.27	88.6	1.587		
540.	6.00	34.06			26.83	129.6	1000.	3.83	34.49	27.42	75.6	1.753		
723.	4.70	34.31			27.18	96.8	1200.	3.37	34.55	27.52	67.1	1.898		
909.	4.06	34.45			27.36	80.5								
1095.	3.63	34.52			27.46	71.8								
1383.	3.04	34.56			27.55	63.9								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 5, STATION 18, 22- 2N LAT, 150-59W LCNG, JUNE 24, 1964, 0800 G.C.T.													
DRY BULB	23.0	WET BULB	20.1	WIND SPEED	14, DIR. 06	BAR.	15	WEATHER	03	VIS.	7	CLOUD TYPE 8, COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.41	34.78			23.37	451.7	0.	24.41	34.78	23.37	451.7	0.000	
10.	24.40	34.79			23.38	451.1	10.	24.40	34.79	23.38	451.1	0.045	
52.	23.47	34.90			23.74	418.6	20.	24.30	34.80	23.42	448.1	0.091	
77.	22.30	35.10			24.23	373.0	30.	24.13	34.82	23.49	442.1	0.136	
103.	21.96	35.19			24.39	358.4	50.	23.55	34.89	23.71	421.3	0.223	
128.	21.24	35.14			24.55	343.8	75.	22.39	35.08	24.19	376.4	0.323	
154.	19.97	35.06			24.83	317.9	100.	21.99	35.19	24.38	359.2	0.416	
179.	19.07	35.02			25.04	299.3	150.	20.17	35.07	24.79	322.0	0.587	
194.	18.46	34.92			25.12	292.3	200.	18.21	34.89	25.15	288.8	0.741	
229.	16.64	34.70			25.39	267.0	250.	14.94	34.48	25.61	246.3	0.876	
256.	14.44	34.42			25.66	240.6	300.	11.97	34.17	25.97	211.4	0.992	
281.	12.81	34.24			25.86	221.9	400.	8.80	34.09	26.46	165.8	1.182	
306.	11.74	34.16			26.01	208.3	500.	6.55	34.08	26.77	135.3	1.334	
408.	6.61	34.09			26.49	162.7	600.	5.44	34.20	27.01	112.8	1.459	
511.	6.36	34.08			26.80	132.6	700.	5.00	34.33	27.17	98.8	1.566	
612.	5.37	34.22			27.04	110.6	800.	4.79	34.43	27.27	90.0	1.661	
815.	4.78	34.44			27.28	89.1	1000.	4.21	34.50	27.39	79.6	1.833	
1018.	4.16	34.50			27.39	79.0	1200.	3.65	34.54	27.47	71.7	1.986	
1220.	3.60	34.54			27.48	70.9	1500.	2.88	34.59	27.59	60.7	2.188	
1522.	2.83	34.59			27.60	60.0							

CROMWELL 5, STATION 19, 20-32N LAT, 150-56W LCNG, JUNE 24, 1964, 1700 G.C.T.													
DRY BULB	24.2	WET BULB	21.3	WIND SPEED	15, DIR. 09	BAR.	15	WEATHER	01	VIS.	7	CLOUD TYPE 8, COVER	6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.35	34.66			23.30	458.6	0.	24.35	34.66	23.30	458.6	0.000	
10.	24.33	34.66			23.31	458.4	10.	24.33	34.66	23.31	458.4	0.046	
30. Δ	24.28	34.68			23.34	456.4	20.	24.30	34.67	23.32	457.3	0.092	
51.	24.29	34.67			23.33	458.2	30.	24.28	34.68	23.34	456.4	0.138	
75.	23.60	34.68			23.54	438.9	50.	24.30	34.67	23.33	458.3	0.230	
100.	22.31	34.67			23.90	405.2	75.	23.60	34.68	23.54	438.9	0.343	
125.	21.92	34.90			24.18	379.0	100.	22.31	34.67	23.90	405.2	0.450	
150.	20.51	34.88			24.55	344.5	150.	20.51	34.88	24.55	344.5	0.639	
174.	19.00	34.86			24.93	309.0	200.	17.71	34.77	25.19	285.5	0.797	
188.	18.53	34.86			25.05	298.1	250.	13.64	34.30	25.74	233.1	0.928	
220.	16.02	34.56			25.42	263.1	300.	11.15	34.16	26.12	197.3	1.037	
246.	13.90	34.32			25.70	236.6	400.	7.94	34.17	26.65	146.7	1.210	
271.	12.45	34.22			25.92	216.3	500.	6.77	34.24	26.87	126.3	1.348	
295.	11.37	34.17			26.08	200.7	600.	5.40	34.24	27.05	109.1	1.467	
391.	8.08	34.16			26.62	149.2	700.	5.03	34.35	27.17	98.0	1.571	
488.	6.97	34.24			26.85	128.8	800.	4.93	34.45	27.27	90.0	1.667	
586.	5.48	34.23			27.03	110.9	1000.	4.14	34.51	27.40	78.2	1.837	
778.	5.02	34.44			27.25	91.7	1200.	3.55	34.54	27.49	70.2	1.987	
973.	4.23	34.50			27.39	79.4							
1168.	3.64	34.53			27.47	71.7							
1463.	3.03	34.56			27.55	64.3							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.14

CROMWELL 5, STATION 20, 19- 1N LAT, 151- 2W LCNG, JUNE 25, 1964, 0200 G.C.T.													
DRY BULB	24.8	WET BULB	21.6	WIND SPEED	15, DIR. 11	BAR.	13	WEATHER	02	VIS.	7	CLOUD TYPE 6, COVER	7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.93	34.76			23.20	468.1	0.	24.93	34.76	23.20	468.1	0.000	
8.	24.90	34.76			23.21	467.5	10.	24.93	34.75	23.20	468.9	0.047	
30. Δ	24.78	34.77			23.26	464.2	20.	24.96	34.74	23.18	470.9	0.095	
45.	23.56	34.96			23.76	416.5	30.	24.78	34.77	23.26	464.2	0.142	
70.	22.81	35.08			24.07	388.0	50.	23.33	35.00	23.86	407.6	0.229	
93.	22.43	35.11			24.20	376.4	75.	22.73	35.09	24.10	385.3	0.329	
115.	21.69	35.12			24.42	356.7	100.	22.23	35.12	24.26	370.8	0.425	
139.	20.61	35.10			24.69	330.8	150.	20.04	35.07	24.82	318.9	0.598	
162.	19.41	35.02			24.95	307.1	200.	17.10	34.72	25.30	274.9	0.748	
175.	18.74	34.94			25.06	296.9	250.	13.20	34.25	25.79	227.8	0.875	
208.	16.49	34.64			25.38	267.3	300.	9.85	34.10	26.30	179.5	0.977	
233.	14.37	34.36			25.63	242.9	400.	7.99	34.22	26.68	143.9	1.141	
257.	12.71	34.22			25.87	220.9	500.	6.40	34.29	26.96	117.1	1.272	
279.	10.78	34.12			26.15	193.6	600.	5.70	34.39	27.13	102.3	1.383	
374.	8.57	34.20			26.58	153.4	700.	5.13	34.44	27.24	92.1	1.481	
468.	6.73	34.26			26.89	123.7	800.	4.69	34.48	27.32	85.3	1.571	
563.	5.95	34.36			27.07	107.1	1000.	4.08	34.53	27.42	75.8	1.734	
752.	4.89	34.46			27.28	88.3	1200.	3.56	34.56	27.51	68.5	1.880	
941.	4.23	34.51			27.39	78.4							
1130.	3.78	34.56			27.48	70.9							
1420.	3.07	34.58			27.57	63.0							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.28

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL 5, STATION 21, 17-31N LAT, 150-57W LONG, JUNE 25, 1964, 1200 G.C.T.														
DRY BULB	24.5	WET BULB	21.8	WIND SPEED	17, DIR. 09	BAR.	14	WEATHER	01	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.	24.63	34.64			23.20	468.1	0.	24.63	34.64	23.20	468.1	0.000		
10.	24.65	34.64			23.20	469.0	10.	24.65	34.64	23.20	469.0	0.047		
30.Δ	24.64	34.64			23.20	469.5	20.	24.65	34.64	23.20	469.4	0.094		
50.Δ	24.64	34.64			23.20	470.3	30.	24.64	34.64	23.20	469.5	0.142		
78.	23.87	34.67			23.45	447.3	50.	24.64	34.64	23.20	470.3	0.236		
102.	22.99	34.90			23.88	407.2	75.	23.98	34.66	23.41	451.1	0.352		
127.	22.51	35.07			24.15	382.7	100.	23.06	34.88	23.84	410.6	0.461		
152.	20.67	34.92			24.54	345.8	150.	20.84	34.93	24.51	358.9	0.652		
177.	19.20	34.94			24.94	308.2	200.	16.54	34.56	25.30	274.2	0.809		
192.	17.55	34.68			25.16	288.1	250.	11.26	34.20	26.13	195.4	0.928		
225.	13.50	34.28			25.75	231.0	300.	9.34	34.15	26.42	168.0	1.019		
252.	11.12	34.20			26.15	193.0	400.	7.82	34.25	26.73	138.7	1.174		
278.	10.12	34.21			26.33	175.7	500.	6.33	34.26	26.95	118.6	1.304		
302.	9.27	34.14			26.42	167.4	600.	5.62	34.31	27.08	106.6	1.418		
403.	7.80	34.26			26.74	137.9	700.	5.30	34.40	27.18	97.5	1.521		
505.	6.26	34.26			26.96	117.8	800.	5.09	34.47	27.27	90.4	1.616		
607.	5.59	34.32			27.09	105.9	1000.	4.42	34.52	27.38	80.6	1.789		
809.	5.08	34.48			27.28	89.9	1200.	3.79	34.54	27.46	73.1	1.945		
1012.	4.38	34.52			27.39	80.2	1500.	3.02	34.58	27.57	63.1	2.152		
1212.	3.75	34.54			27.47	72.7								
1515.	2.99	34.58			27.57	62.7								

CROMWELL 5, STATION 22, 15-59N LAT, 151- 3W LONG, JUNE 25, 1964, 2100 G.C.T.														
DRY BULB	25.8	WET BULB	22.8	WIND SPEED	22, DIR. 07	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	4, COVER	5
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.14	34.70			23.09	478.5	0.	25.14	34.70	23.09	478.5	0.000		
10.	25.12	34.70			23.10	478.3	10.	25.12	34.70	23.10	478.3	0.048		
30.Δ	25.02	34.70			23.13	476.2	20.	25.19	34.70	23.08	480.9	0.096		
48.	23.38	34.74			23.65	427.4	30.	25.02	34.70	23.13	476.2	0.145		
73.	22.46	35.03			24.13	382.2	50.	23.27	34.76	23.49	423.0	0.235		
98.	21.76	35.12			24.40	357.9	75.	22.40	35.04	24.16	379.8	0.336		
121.	21.35	35.22			24.58	340.7	100.	21.73	35.13	24.41	356.4	0.429		
147.	19.98	35.08			24.85	316.5	150.	19.81	35.06	24.88	313.5	0.598		
169.	18.20	34.88			25.15	288.1	200.	13.86	34.34	25.72	233.5	0.736		
183.	16.04	34.58			25.43	260.9	250.	10.67	34.26	26.28	180.6	0.840		
217.	12.23	34.21			25.95	211.6	300.	10.06	34.48	26.56	155.1	0.925		
243.	10.93	34.23			26.21	187.3	400.	8.96	34.54	26.78	135.1	1.071		
268.	10.21	34.36			26.44	165.9	500.	7.60	34.49	26.95	119.9	1.200		
291.	10.12	34.46			26.53	157.6	600.	6.59	34.47	27.08	108.1	1.315		
389.	9.11	34.54			26.76	137.1	700.	5.88	34.48	27.18	99.3	1.420		
487.	7.76	34.49			26.93	121.7	800.	5.32	34.49	27.26	91.9	1.517		
584.	6.72	34.47			27.06	109.7	1000.	4.35	34.53	27.39	79.3	1.690		
778.	5.45	34.49			27.24	93.6	1200.	3.68	34.56	27.49	70.4	1.841		
975.	4.44	34.52			27.38	80.6								
1170.	3.83	34.56			27.48	71.9								
1468.	3.11	34.59			27.57	63.1								

CROMWELL 5, STATION 23, 14-28N LAT, 151- 3W LONG, JUNE 26, 1964, 0600 G.C.T.														
DRY BULB	25.6	WET BULB	22.8	WIND SPEED	21, DIR. 07	BAR.	13	WEATHER	01	VIS.	7	CLOUD TYPE	3, COVER	3
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.29	34.61			22.98	489.3	0.	25.29	34.61	22.98	489.3	0.000		
8.	25.27	34.60			22.98	489.8	10.	25.31	34.60	22.96	491.4	0.049		
30.Δ	25.20	34.60			23.00	488.6	20.	25.37	34.59	22.94	494.2	0.099		
47.	23.58	34.70			23.56	435.8	30.	25.20	34.60	23.00	488.6	0.149		
73.	22.53	35.00			24.09	386.3	50.	23.40	34.74	23.44	428.4	0.241		
98.	21.97	35.07			24.30	367.1	75.	22.49	35.01	24.11	384.6	0.343		
123.	20.84	35.16			24.68	331.8	100.	21.91	35.08	24.33	364.6	0.438		
148.	18.78	34.94			25.05	297.0	150.	18.63	34.92	25.07	294.8	0.604		
172.	16.54	34.64			25.37	267.3	200.	13.01	34.29	25.86	220.4	0.734		
186.	14.48	34.38			25.63	242.4	250.	11.03	34.51	26.41	168.4	0.832		
220.	11.72	34.32			26.13	194.2	300.	9.80	34.52	26.63	148.1	0.912		
246.	11.14	34.50			26.38	171.2	400.	8.43	34.52	26.85	128.2	1.051		
271.	10.45	34.54			26.53	156.8	500.	7.44	34.52	27.00	115.1	1.174		
295.	9.89	34.52			26.62	149.4	600.	6.60	34.52	27.12	104.6	1.285		
395.	8.49	34.52			26.84	128.9	700.	5.90	34.52	27.21	96.2	1.386		
495.	7.49	34.52			26.99	115.7	800.	5.33	34.53	27.29	89.2	1.480		
594.	6.65	34.52			27.11	105.2	1000.	4.47	34.56	27.41	78.3	1.649		
791.	5.37	34.53			27.28	89.7	1200.	3.75	34.57	27.49	70.2	1.800		
988.	4.52	34.56			27.40	78.8								
1186.	3.80	34.56			27.48	71.6								
1482.	2.98	34.61			27.60	60.1								

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROWWELL 5, STATION 24, 13- ON LAT, 150-57N LCNG, JUNE 26, 1964, 1500 G.C.T.												
DRY BULB 25.3	WET BULB 22.6	WIND SPEED 22, DIR. 07	BAR. 11	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 2						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.29	34.78			22.80	506.7	0.	26.29	34.78	22.80	506.7	0.000
8.	26.31	34.78			22.79	507.6	10.	26.31	34.78	22.79	507.7	0.051
30.Δ	26.30	34.78			22.80	508.2	20.	26.31	34.78	22.79	508.2	0.102
50.Δ	26.26	34.78			22.81	507.8	30.	26.30	34.78	22.80	508.2	0.153
72.	25.76	34.74			22.93	496.7	50.	26.26	34.78	22.81	507.8	0.256
97.	22.64	34.88			23.97	398.8	75.	25.43	34.76	23.05	485.9	0.381
120.	20.74	34.86			24.48	350.8	100.	22.39	34.88	24.04	391.9	0.492
144.	17.88	34.74			25.12	289.9	150.	17.00	34.65	25.26	276.4	0.660
168.	14.38	34.39			25.65	239.1	200.	11.00	34.20	26.17	189.8	0.777
182.	12.71	34.34			25.96	210.2	250.	10.31	34.48	26.51	158.8	0.865
215.	10.14	34.14			26.28	179.8	300.	9.36	34.49	26.68	143.2	0.941
241.	10.24	34.41			26.47	162.2	400.	8.42	34.56	26.88	125.1	1.077
266.	10.29	34.54			26.56	154.0	500.	7.45	34.54	27.01	114.0	1.197
289.	9.56	34.49			26.65	146.1	600.	6.65	34.52	27.11	105.4	1.308
387.	8.56	34.56			26.86	126.9	700.	5.91	34.52	27.20	96.9	1.410
484.	7.59	34.54			26.99	115.5	800.	5.28	34.52	27.29	89.3	1.504
580.	6.81	34.52			27.09	107.2	1000.	4.38	34.54	27.40	78.4	1.674
775.	5.42	34.52			27.27	90.9	1200.	3.70	34.57	27.49	70.2	1.825
969.	4.50	34.54			27.39	79.8						
1164.	3.85	34.56			27.47	72.0						
1460.	3.07	34.60			27.58	61.8						

CROWWELL 5, STATION 25, 11-30N LAT, 151- ON LCNG, JUNE 26, 1964, 2400 G.C.T.												
DRY BULB 26.4	WET BULB 22.9	WIND SPEED 19, DIR. 06	BAR. 12	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 2						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.36	34.42			22.51	534.7	0.	26.36	34.42	22.51	534.7	0.000
10.	26.34	34.42			22.51	534.5	10.	26.34	34.42	22.51	534.5	0.054
30.Δ	26.20	34.42			22.56	531.1	20.	26.28	34.42	22.53	533.3	0.108
50.Δ	26.00	34.44			22.63	524.5	30.	26.20	34.42	22.56	531.1	0.161
77.	23.00	34.76			23.77	416.6	50.	26.00	34.44	22.63	524.5	0.268
102.	17.88	34.72			25.11	289.9	75.	23.32	34.74	23.66	427.0	0.387
128.	13.10	34.28			25.83	220.7	100.	18.32	34.74	25.01	299.1	0.479
153.	11.72	34.58			26.34	173.5	150.	11.77	34.53	26.29	178.1	0.599
178.	11.51	34.75			26.51	157.8	200.	11.06	34.75	26.59	150.4	0.682
193.	11.17	34.75			26.57	152.1	250.	10.48	34.72	26.67	143.4	0.756
227.	10.73	34.74			26.64	146.0	300.	10.03	34.71	26.74	137.6	0.827
255.	10.43	34.72			26.68	142.9	400.	9.21	34.67	26.85	129.1	0.961
280.	10.21	34.72			26.72	139.7	500.	8.25	34.63	26.96	119.4	1.087
306.	9.97	34.71			26.75	137.0	600.	7.31	34.57	27.06	111.2	1.203
407.	9.15	34.67			26.86	128.5	700.	6.43	34.54	27.16	102.0	1.311
510.	8.15	34.62			26.97	118.4	800.	5.65	34.54	27.25	93.0	1.410
613.	7.19	34.56			27.07	110.2	1000.	4.58	34.56	27.39	79.9	1.584
816.	5.54	34.54			27.27	91.5	1200.	3.86	34.58	27.49	71.1	1.737
1016.	4.52	34.56			27.40	79.0	1500.	3.04	34.60	27.58	61.8	1.939
1215.	3.81	34.58			27.49	70.5						
1517.	3.01	34.60			27.59	61.5						

CROWWELL 5, STATION 26, 10- 4N LAT, 148- 3N LCNG, JUNE 27, 1964, 1900 G.C.T.												
DRY BULB 25.8	WET BULB 23.9	WIND SPEED 14, DIR. 04	BAR. 13	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.85	34.01			22.04	579.0	0.	26.85	34.01	22.04	579.0	0.000
10.	26.76	34.01			22.07	576.7	10.	26.76	34.01	22.07	576.7	0.058
30.Δ	26.60	34.02			22.13	571.9	20.	26.74	33.98	22.06	578.3	0.116
49.	25.55	34.48			22.80	508.3	30.	26.60	34.02	22.13	571.9	0.174
59.	21.67	34.53			23.97	396.7	50.	25.27	34.49	22.90	499.0	0.282
68.	16.22	34.36			25.22	277.4	75.	15.06	34.38	25.50	251.1	0.377
78.	14.93	34.42			25.56	245.7	100.	12.71	34.67	26.21	183.8	0.431
88.	13.52	34.58			25.98	205.8	150.	11.53	34.75	26.50	157.6	0.517
98.	12.77	34.66			26.19	185.7	200.	10.84	34.73	26.61	148.0	0.594
108.	12.56	34.70			26.27	179.1	250.	10.43	34.72	26.68	142.9	0.668
147.	11.59	34.75			26.49	158.5	300.	10.04	34.69	26.72	139.6	0.739
196.	10.88	34.73			26.61	148.6	400.	9.35	34.68	26.83	131.0	0.876
246.	10.46	34.72			26.67	143.2	500.	8.48	34.64	26.94	122.0	1.003
296.	10.07	34.69			26.72	139.9	600.	7.14	34.58	27.09	107.9	1.119
396.	9.38	34.68			26.83	131.3	700.	6.22	34.56	27.20	97.9	1.223
496.	8.53	34.64			26.93	122.6	800.	5.56	34.56	27.28	90.2	1.319
592.	7.22	34.58			27.08	108.9	1000.	4.53	34.57	27.41	78.3	1.489
791.	5.62	34.56			27.27	90.8	1200.	3.77	34.58	27.50	69.6	1.639
989.	4.58	34.57			27.40	78.8						
1186.	3.85	34.58			27.49	70.8						
1487.	3.02	34.62			27.60	59.9						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.18

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 27, 11-32N LAT, 148- 3M LONG, JUNE 28, 1964, 0600 G.C.T.												
DRY BULB 26.8		WET BULB 24.2		WIND SPEED 17, DIR. 11		BAR. 13		WEATHER 00		VIS. 8 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.73	34.03			22.10	573.9	0.	26.73	34.03	22.10	573.9	0.000
10.	26.71	34.04			22.11	573.0	10.	26.71	34.04	22.11	573.0	0.058
30.Δ	26.60	34.06			22.16	569.0	20.	26.68	34.03	22.11	573.1	0.115
49.	26.15	34.33			22.50	536.8	30.	26.60	34.06	22.16	569.0	0.173
59.	25.35	34.44			22.83	505.7	50.	26.07	34.34	22.54	533.4	0.284
69.	25.16	34.45			22.90	499.8	75.	23.77	34.41	23.28	463.1	0.410
79.	22.46	34.40			23.65	427.9	100.	15.18	34.39	25.48	254.1	0.500
88.	18.90	34.54			24.71	326.8	150.	11.83	34.76	26.46	161.9	0.605
98.	15.58	34.38			25.38	263.0	200.	10.93	34.75	26.61	148.0	0.683
108.	14.03	34.46			25.78	225.2	250.	10.38	34.74	26.70	140.5	0.756
148.	11.89	34.76			26.44	163.3	300.	9.87	34.72	26.77	134.5	0.825
199.	10.94	34.75			26.61	148.2	400.	9.03	34.67	26.87	126.6	0.957
248.	10.40	34.74			26.70	140.8	500.	8.10	34.62	26.98	117.6	1.080
299.	9.86	34.72			26.77	134.6	600.	7.13	34.57	27.08	108.4	1.194
397.	9.06	34.67			26.87	126.9	700.	6.29	34.55	27.18	99.5	1.299
497.	8.13	34.62			26.98	117.9	800.	5.58	34.55	27.27	91.1	1.396
595.	7.17	34.57			27.08	108.9	1000.	4.48	34.57	27.42	77.6	1.566
794.	5.62	34.55			27.27	91.6	1200.	3.79	34.59	27.50	69.4	1.715
994.	4.50	34.57			27.41	77.8						
1192.	3.90	34.59			27.49	70.7						
1493.	3.19	34.61			27.58	62.8						

CROMWELL 5, STATION 28, 12-57N LAT, 147-58M LONG, JUNE 28, 1964, 1600 G.C.T.												
DRY BULB 25.3		WET BULB 23.7		WIND SPEED 22, DIR. 09		BAR. 11		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.95	34.48			22.68	518.1	0.	25.95	34.48	22.68	518.1	0.000
10.	25.94	34.48			22.68	518.2	10.	25.94	34.48	22.68	518.2	0.052
49.	25.01	34.45			22.94	494.6	20.	25.76	34.48	22.73	513.8	0.104
59.	24.79	34.44			23.00	489.4	30.	25.54	34.47	22.80	508.2	0.156
68.	24.33	34.40			23.11	479.4	50.	24.99	34.45	22.95	494.3	0.257
78.	24.14	34.40			23.17	474.4	75.	24.20	34.40	23.15	475.9	0.379
87.	23.64	34.34			23.27	465.0	100.	20.02	34.69	24.54	344.0	0.482
97.	20.31	34.64			24.43	354.9	150.	12.98	34.31	25.88	216.6	0.623
107.	19.75	34.76			24.66	332.4	200.	11.45	34.62	26.41	167.1	0.720
146.	13.27	34.30			25.82	223.0	250.	10.80	34.69	26.59	151.7	0.800
194.	11.57	34.60			26.38	170.3	300.	10.27	34.72	26.70	141.4	0.874
243.	10.85	34.64			26.57	153.4	400.	9.00	34.70	26.90	124.1	1.008
291.	10.38	34.71			26.68	143.6	500.	7.91	34.52	26.93	122.2	1.132
388.	9.13	34.72			26.90	124.2	600.	6.83	34.54	27.10	106.2	1.248
486.	8.07	34.52			26.91	124.1	700.	6.03	34.54	27.21	96.5	1.350
583.	6.98	34.54			27.08	108.2	800.	5.43	34.54	27.28	89.7	1.444
780.	5.54	34.54			27.27	91.1	1000.	4.49	34.56	27.41	78.3	1.614
977.	4.58	34.56			27.40	79.4	1200.	3.79	34.58	27.50	69.8	1.764
1175.	3.88	34.58			27.49	71.0						
1470.	3.14	34.62			27.59	61.8						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.11

CROMWELL 5, STATION 29, 14-32N LAT, 148- 0M LONG, JUNE 29, 1964, 0200 G.C.T.												
DRY BULB 25.5		WET BULB 23.3		WIND SPEED 19, DIR. 06		BAR. 13		WEATHER 03		VIS. 7 CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.27	34.48			22.89	498.1	0.	25.27	34.48	22.89	498.1	0.000
10.	25.24	34.48			22.90	497.6	10.	25.24	34.48	22.90	497.6	0.050
51.	25.06	34.47			22.94	494.7	20.	25.20	34.47	22.90	497.5	0.100
76.	24.93	34.53			23.03	487.6	30.	25.16	34.47	22.91	497.0	0.150
101.	22.52	34.88			24.00	395.7	50.	25.07	34.47	22.94	494.9	0.250
125.	19.42	34.72			24.72	327.8	75.	24.96	34.52	23.02	488.8	0.374
151.	15.65	34.50			25.46	257.3	100.	22.65	34.87	23.96	400.0	0.486
176.	12.72	34.26			25.89	216.1	150.	15.79	34.51	25.44	259.7	0.652
191.	11.69	34.21			26.05	201.0	200.	11.33	34.24	26.14	192.8	0.766
224.	10.77	34.38			26.35	173.1	250.	10.34	34.52	26.53	156.4	0.854
251.	10.33	34.52			26.54	155.8	300.	9.68	34.58	26.70	141.7	0.930
276.	9.95	34.56			26.64	147.0	400.	8.89	34.62	26.86	127.8	1.065
301.	9.67	34.58			26.70	141.5	500.	7.61	34.52	26.98	117.5	1.189
402.	8.87	34.62			26.86	127.6	600.	6.74	34.51	27.09	107.2	1.303
501.	7.60	34.52			26.98	117.4	700.	6.06	34.51	27.18	99.4	1.407
601.	6.73	34.51			27.09	107.1	800.	5.49	34.51	27.25	92.9	1.504
800.	5.49	34.51			27.25	92.9	1000.	4.48	34.53	27.38	80.6	1.680
1000.	4.48	34.53			27.38	80.6	1200.	3.78	34.56	27.48	71.9	1.834
1198.	3.84	34.56			27.47	72.2						
1498.	3.11	34.58			27.56	64.0						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 30, 16- ON LAT, 147-58W LONG, JUNE 29, 1964, 1200 G.C.T.													
DRY BULB 24.3		WET BULB 22.2		WIND SPEED 19, DIR. 04		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.15	34.62			23.03	484.5	0.	25.15	34.62	23.03	484.5	0.000	
10.	25.16	34.62			23.03	485.2	10.	25.16	34.62	23.03	485.2	0.049	
30. ^Δ	25.15	34.62			23.03	485.7	20.	25.16	34.62	23.03	485.5	0.098	
50. ^Δ	25.15	34.62			23.03	486.5	30.	25.15	34.62	23.03	485.7	0.147	
75. ^Δ	25.12	34.62			23.04	486.6	50.	25.15	34.62	23.03	486.5	0.245	
98.	23.09	34.77			23.75	419.1	75.	25.12	34.62	23.04	486.6	0.367	
121.	21.65	34.96			24.30	367.4	100.	22.94	34.79	23.81	413.9	0.481	
146.	20.69	35.05			24.64	336.7	150.	20.36	35.03	24.71	330.0	0.668	
170.	18.20	34.79			25.08	294.7	200.	14.67	34.38	25.58	247.0	0.813	
184.	16.37	34.54			25.33	271.2	250.	11.51	34.30	26.16	192.5	0.924	
217.	13.27	34.30			25.82	224.8	300.	9.61	34.34	26.53	157.9	1.013	
243.	11.81	34.28			26.09	199.3	400.	8.45	34.46	26.81	132.5	1.159	
269.	10.77	34.36			26.34	175.5	500.	7.46	34.48	26.97	118.3	1.286	
293.	9.78	34.34			26.49	160.8	600.	6.95	34.48	27.03	112.7	1.402	
390.	8.57	34.46			26.78	134.5	700.	6.28	34.49	27.13	104.0	1.512	
489.	7.51	34.48			26.96	118.8	800.	5.17	34.52	27.30	87.8	1.609	
682.	6.50	34.48			27.10	107.3	1000.	4.32	34.54	27.41	77.5	1.776	
781.	5.31	34.52			27.28	89.6	1200.	3.66	34.58	27.51	68.7	1.924	
977.	4.40	34.54			27.40	78.6							
1176.	3.78	34.58			27.50	69.8							
1467.	3.00	34.62			27.60	59.5							

TEMPERATURE ERROR TERM AT 600. METERS IS 0.13

CROMWELL 5, STATION 31, 17-28N LAT, 147-57W LONG, JUNE 29, 1964, 2100 G.C.T.													
DRY BULB 25.3		WET BULB 22.8		WIND SPEED 21, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.44	34.78			23.06	481.5	0.	25.44	34.78	23.06	481.5	0.000	
10.	25.41	34.78			23.07	481.0	10.	25.41	34.78	23.07	481.0	0.048	
30. ^Δ	25.18	34.78			23.14	475.1	20.	25.31	34.78	23.10	478.4	0.097	
51.	24.95	34.78			23.21	469.2	30.	25.18	34.78	23.14	475.1	0.145	
77.	22.72	35.00			24.03	391.6	50.	24.98	34.78	23.20	470.1	0.240	
101.	22.05	35.13			24.32	365.0	75.	22.90	34.98	23.97	397.9	0.349	
126.	20.43	35.16			24.79	321.4	100.	22.07	35.13	24.31	365.9	0.446	
153.	19.46	35.04			24.95	306.6	150.	19.57	35.06	24.94	307.7	0.615	
179.	17.68	34.81			25.22	281.3	200.	15.47	34.52	25.51	253.9	0.757	
194.	16.18	34.60			25.42	262.9	250.	11.19	34.14	26.09	198.4	0.871	
227.	12.59	34.22			25.89	217.8	300.	9.61	34.19	26.41	169.0	0.964	
253.	11.05	34.14			26.12	196.2	400.	8.38	34.40	26.77	136.2	1.118	
279.	9.98	34.16			26.32	177.0	500.	7.16	34.43	26.97	117.5	1.246	
305.	9.55	34.20			26.42	167.6	600.	6.32	34.44	27.09	106.6	1.359	
405.	8.33	34.41			26.78	134.8	700.	5.68	34.46	27.19	98.0	1.462	
507.	7.08	34.43			26.98	116.6	800.	5.14	34.48	27.27	90.7	1.557	
607.	6.27	34.44			27.10	106.0	1000.	4.20	34.50	27.39	79.0	1.729	
810.	5.09	34.48			27.27	90.0	1200.	3.58	34.54	27.49	70.4	1.881	
981.	4.26	34.50			27.38	79.9							
1105.	3.91	34.53			27.44	74.5							
1330.	3.25	34.56			27.53	66.0							

CROMWELL 5, STATION 32, 19- ON LAT, 148- 0W LONG, JUNE 30, 1964, 0700 G.C.T.													
DRY BULB 24.4		WET BULB 21.7		WIND SPEED 21, DIR. 05		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.63	34.73			23.27	461.6	0.	24.63	34.73	23.27	461.6	0.000	
11.	24.65	34.75			23.28	461.2	10.	24.65	34.75	23.28	461.2	0.046	
30. ^Δ	24.60	34.73			23.28	461.9	20.	24.63	34.74	23.28	461.7	0.093	
50. ^Δ	24.54	34.78			23.34	457.4	30.	24.60	34.73	23.28	461.9	0.139	
78.	23.33	34.89			23.78	416.4	50.	24.54	34.78	23.34	457.4	0.232	
90.	23.17	34.98			23.89	405.9	75.	23.46	34.87	23.72	421.1	0.343	
103.	22.64	35.08			24.12	384.7	100.	22.79	35.06	24.06	389.8	0.445	
136.	20.65	34.86			24.50	349.0	150.	18.86	34.70	24.85	316.1	0.623	
154.	18.34	34.66			24.95	306.9	200.	14.20	34.30	25.63	242.6	0.764	
174.	16.58	34.50			25.25	278.5	250.	10.48	34.11	26.19	188.7	0.872	
217.	12.69	34.20			25.85	221.0	300.	8.77	34.11	26.48	161.6	0.961	
236.	11.19	34.13			26.08	199.0	400.	7.82	34.28	26.75	136.8	1.111	
266.	9.88	34.10			26.29	179.5	500.	6.82	34.35	26.95	119.0	1.240	
292.	8.92	34.10			26.45	164.7	600.	5.99	34.41	27.11	104.4	1.353	
411.	7.83	34.30			26.77	135.5	700.	5.39	34.46	27.22	94.3	1.454	
513.	6.68	34.35			26.97	117.0	800.	4.91	34.49	27.30	87.2	1.545	
614.	5.90	34.42			27.13	102.6	1000.	4.17	34.54	27.42	76.3	1.711	
817.	4.84	34.49			27.31	86.2	1200.	3.61	34.57	27.50	68.8	1.858	
1020.	4.11	34.54			27.43	75.4	1500.	2.87	34.61	27.61	59.1	2.052	
1222.	3.55	34.57			27.51	68.1							
1524.	2.82	34.61			27.61	58.5							

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		5, STATION		33, 20-32N LAT, 148-1W LONG, JUN 30, 1964, 1600 G.C.T.									
DRY BULB	24.0	WET BULB	20.0	WIND SPEED	18, DIR. 04	BAR. 19	WEATHER 01	VIS. 9	CLOUD TYPE 4,	COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.23	34.75			23.41	448.7	0.	24.23	34.75	23.41	448.7	0.000	
10.	24.22	34.75			23.41	448.8	10.	24.22	34.75	23.41	448.8	0.045	
20. Δ	24.22	34.75			23.41	449.2	20.	24.22	34.75	23.41	449.2	0.090	
30. Δ	24.23	34.75			23.41	449.9	30.	24.23	34.75	23.41	449.9	0.136	
49.	23.16	35.08			23.97	396.9	50.	23.13	35.09	23.98	395.7	0.221	
73.	22.72	35.11			24.12	383.5	75.	22.69	35.11	24.13	382.6	0.319	
96.	22.31	35.14			24.26	371.1	100.	22.21	35.15	24.29	367.7	0.413	
120.	21.69	35.22			24.49	349.6	150.	20.74	35.22	24.76	325.4	0.588	
146.	20.99	35.25			24.71	330.0	200.	17.98	34.87	25.20	284.7	0.742	
169.	19.45	35.07			24.98	304.7	250.	14.35	34.40	25.67	239.8	0.874	
183.	18.75	34.98			25.09	294.5	300.	11.79	34.18	26.01	207.8	0.987	
216.	17.07	34.74			25.32	273.4	400.	8.68	34.18	26.54	157.3	1.171	
241.	14.85	34.46			25.61	245.8	500.	6.55	34.20	26.87	126.3	1.314	
266.	13.60	34.33			25.77	230.4	600.	5.73	34.32	27.07	107.8	1.433	
290.	12.23	34.20			25.94	214.1	700.	5.17	34.39	27.19	96.8	1.536	
387.	9.05	34.18			26.49	162.6	800.	4.79	34.43	27.27	89.6	1.630	
484.	6.76	34.18			26.83	130.2	1000.	4.15	34.51	27.40	77.9	1.800	
580.	5.86	34.30			27.04	110.6	1200.	3.59	34.56	27.50	69.5	1.949	
774.	4.89	34.42			27.25	91.5							
958.	4.27	34.50			27.38	79.8							
1135.	3.80	34.54			27.46	72.7							
1401.	3.06	34.57			27.56	63.5							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		5, STATION		34, 21-59N LAT, 147-57W LONG, JULY 1, 1964, 0200 G.C.T.									
DRY BULB	23.4	WET BULB	20.0	WIND SPEED	18, DIR. 05	BAR. 19	WEATHER 02	VIS. 9	CLOUD TYPE 8,	COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.92	34.86			23.58	432.0	0.	23.92	34.86	23.58	432.0	0.000	
9.	23.89	34.87			23.60	430.8	10.	23.87	34.88	23.61	429.3	0.043	
30. Δ	23.46	35.19			23.96	396.5	20.	23.68	35.03	23.78	413.7	0.086	
48.	23.31	35.22			24.03	390.9	30.	23.46	35.19	23.96	396.5	0.127	
72.	21.96	35.22			24.42	355.0	50.	23.21	35.22	24.06	388.2	0.206	
96.	21.34	35.30			24.65	333.7	75.	21.87	35.23	24.45	351.8	0.299	
119.	20.61	35.23			24.79	320.7	100.	21.21	35.29	24.68	331.1	0.385	
143.	20.10	35.20			24.91	310.7	150.	19.75	35.15	24.96	305.7	0.545	
166.	18.90	35.02			25.08	294.7	200.	17.24	34.77	25.30	274.7	0.692	
181.	18.36	34.93			25.15	288.7	250.	14.08	34.37	25.70	236.9	0.821	
213.	16.36	34.65			25.41	263.8	300.	11.33	34.13	26.06	202.9	0.931	
239.	14.79	34.46			25.62	244.5	400.	8.44	34.08	26.50	161.0	1.115	
264.	13.18	34.26			25.80	227.2	500.	6.59	34.12	26.80	132.4	1.263	
287.	11.88	34.16			25.98	210.5	600.	5.62	34.25	27.03	111.3	1.386	
383.	8.86	34.08			26.44	166.9	700.	5.01	34.36	27.19	96.6	1.491	
479.	6.88	34.10			26.75	137.7	800.	4.61	34.44	27.30	86.8	1.584	
575.	5.81	34.22			26.98	115.8	1000.	3.97	34.52	27.43	74.7	1.747	
766.	4.74	34.42			27.27	89.6	1200.	3.39	34.57	27.53	65.9	1.890	
957.	4.11	34.51			27.41	77.1							
1147.	3.51	34.56			27.51	67.8							
1433.	2.88	34.59			27.59	60.1							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		5, STATION		35, 23-28N LAT, 147-56W LONG, JULY 1, 1964, 1200 G.C.T.									
DRY BULB	22.6	WET BULB	18.9	WIND SPEED	17, DIR. 05	BAR. 20	WEATHER 01	VIS. 8	CLOUD TYPE 6,	COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.32	35.20			24.01	390.7	0.	23.32	35.20	24.01	390.7	0.000	
9.	23.31	35.20			24.02	390.8	10.	23.31	35.20	24.02	390.9	0.039	
30. Δ	23.30	35.20			24.02	391.3	20.	23.31	35.20	24.02	391.2	0.079	
48.	23.25	35.21			24.04	389.9	30.	23.30	35.20	24.02	391.3	0.118	
73.	21.51	35.28			24.59	338.8	50.	23.12	35.22	24.08	386.1	0.196	
96.	20.96	35.25			24.71	327.4	75.	21.44	35.28	24.60	337.2	0.288	
121.	20.32	35.22			24.86	314.0	100.	20.87	35.25	24.74	325.3	0.371	
146.	19.32	35.06			25.00	301.4	150.	19.18	35.04	25.02	299.7	0.529	
169.	18.46	34.93			25.12	290.7	200.	16.65	34.68	25.37	267.4	0.671	
183.	17.71	34.82			25.22	281.4	250.	13.21	34.28	25.81	226.1	0.796	
216.	15.54	34.55			25.52	253.2	300.	11.24	34.14	26.08	200.4	0.903	
242.	13.63	34.32			25.76	231.1	400.	8.46	34.03	26.47	164.4	1.087	
266.	12.51	34.22			25.90	217.3	500.	6.36	34.05	26.78	134.7	1.239	
291.	11.54	34.16			26.04	204.4	600.	5.24	34.14	26.99	114.7	1.364	
387.	8.80	34.04			26.42	169.0	700.	4.68	34.26	27.15	100.1	1.473	
485.	6.60	34.04			26.74	138.4	800.	4.40	34.37	27.27	89.2	1.569	
582.	5.38	34.12			26.96	117.8	1000.	3.93	34.51	27.43	75.4	1.735	
776.	4.47	34.35			27.24	91.6	1200.	3.48	34.57	27.52	67.0	1.879	
970.	4.00	34.50			27.41	76.6							
1165.	3.58	34.54			27.48	70.2							
1459.	2.89	34.60			27.60	59.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 36, 25- ON LAT, 147-57W LONG, JULY 2, 1964, 0400 G.C.T.												
DRY BULB 22.5		WET BULB 19.2		WIND SPEED 16, DIR. 04		BAR. 20		WEATHER 02		VIS. 8 CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.32	35.24			24.04	387.9	0.	23.32	35.24	24.04	387.9	0.000
10.	23.32	35.24			24.04	388.2	10.	23.32	35.24	24.04	388.2	0.039
30.Δ	23.14	35.25			24.10	383.3	20.	23.30	35.24	24.05	388.1	0.078
48.	22.23	35.33			24.42	353.4	30.	23.14	35.25	24.10	383.3	0.117
73.	21.23	35.34			24.70	328.4	50.	22.14	35.33	24.45	350.8	0.191
96.	20.81	35.30			24.79	319.9	75.	21.23	35.34	24.71	327.5	0.276
119.	20.26	35.28			24.93	308.1	100.	20.73	35.30	24.82	317.9	0.358
141.	19.37	35.12			25.04	298.1	150.	18.89	35.05	25.10	291.9	0.511
164.	18.08	34.92			25.21	282.2	200.	15.99	34.60	25.46	258.7	0.650
177.	17.36	34.79			25.29	275.2	250.	12.57	34.22	25.90	217.6	0.770
207.	15.54	34.55			25.52	253.0	300.	10.91	34.11	26.12	197.4	0.875
232.	13.78	34.34			25.74	232.4	400.	8.39	34.03	26.48	163.4	1.057
255.	12.29	34.20			25.93	214.2	500.	6.48	34.03	26.74	137.9	1.209
277.	11.58	34.14			26.02	206.2	600.	5.34	34.12	26.96	117.5	1.338
366.	9.20	34.06			26.37	173.4	700.	4.73	34.24	27.12	102.5	1.449
453.	7.28	34.01			26.62	149.6	800.	4.35	34.34	27.25	91.2	1.547
543.	5.88	34.06			26.85	128.1	1000.	3.85	34.47	27.40	77.1	1.717
720.	4.66	34.26			27.15	100.0	1200.	3.38	34.54	27.51	67.9	1.864
898.	4.09	34.42			27.34	83.0						
1080.	3.68	34.50			27.44	73.7						
1356.	3.06	34.55			27.54	64.7						

CROMWELL 5, STATION 37, 26-32N LAT, 147-56W LONG, JULY 2, 1964, 1500 G.C.T.												
DRY BULB 21.7		WET BULB 17.6		WIND SPEED 18, DIR. 06		BAR. 22		WEATHER 03		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.	22.32	35.37			24.43	351.1	0.	22.32	35.37	24.43	351.1	0.000
10.	22.32	35.38			24.44	350.8	10.	22.32	35.38	24.44	350.8	0.035
20.Δ	22.32	35.38			24.44	351.2	20.	22.32	35.38	24.44	351.2	0.071
30.Δ	22.32	35.38			24.44	351.6	30.	22.32	35.38	24.44	351.6	0.106
49.	20.97	35.34			24.78	319.4	50.	20.93	35.34	24.79	318.6	0.174
73.	20.51	35.34			24.90	308.5	75.	20.49	35.34	24.91	308.0	0.253
97.	20.36	35.34			24.94	305.5	100.	20.35	35.34	24.95	305.3	0.330
121.	20.29	35.34			24.96	304.6	150.	20.24	35.34	24.98	304.4	0.483
146.	20.25	35.34			24.97	304.5	200.	19.69	35.19	25.01	302.9	0.636
169.	20.22	35.34			24.98	304.5	250.	18.86	34.72	25.35	271.2	0.781
184.	20.23	35.34			24.98	305.3	300.	13.36	34.32	25.82	227.0	0.907
207.	19.35	35.11			25.03	300.7	400.	10.23	34.16	26.28	183.7	1.114
243.	17.39	34.80			25.29	277.3	500.	7.97	34.05	26.55	157.8	1.286
267.	15.51	34.53			25.52	255.6	600.	6.05	34.04	26.81	132.9	1.433
291.	13.81	34.36			25.75	233.1	700.	5.03	34.15	27.02	112.6	1.557
387.	10.56	34.18			26.24	187.7	800.	4.51	34.29	27.19	97.0	1.663
484.	8.34	34.06			26.51	162.1	1000.	3.91	34.44	27.37	80.2	1.842
581.	6.31	34.02			26.76	137.3	1200.	3.43	34.54	27.50	68.9	1.994
774.	4.63	34.26			27.15	100.2						
969.	3.98	34.42			27.35	82.3						
1162.	3.56	34.52			27.47	71.5						
1459.	2.91	34.58			27.58	61.3						

CROMWELL 5, STATION 38, 25- ON LAT, 151- ON LONG, JULY 3, 1964, 0800 G.C.T.												
DRY BULB 23.5		WET BULB 19.9		WIND SPEED 16, DIR. 06		BAR. 21		WEATHER 02		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.76	35.17			23.86	405.2	0.	23.76	35.17	23.86	405.2	0.000
9.	23.76	35.17			23.86	405.5	10.	23.76	35.17	23.86	405.6	0.041
20.Δ	23.78	35.17			23.86	406.5	20.	23.78	35.17	23.86	406.5	0.082
30.Δ	23.80	35.17			23.85	407.5	30.	23.80	35.17	23.85	407.5	0.123
50.	23.03	35.32			24.19	376.0	50.	23.03	35.32	24.19	376.0	0.202
76.	21.79	35.33			24.55	342.7	75.	21.83	35.33	24.54	343.7	0.292
100.	21.25	35.32			24.69	330.1	100.	21.25	35.32	24.69	330.1	0.377
126.	20.91	35.32			24.78	322.2	150.	20.02	35.19	24.92	309.7	0.538
151.	19.97	35.18			24.93	309.1	200.	17.73	34.84	25.23	281.0	0.687
177.	18.77	34.98			25.08	294.8	250.	14.42	34.42	25.67	240.2	0.819
191.	18.13	34.89			25.17	286.5	300.	11.97	34.19	25.98	210.4	0.932
225.	16.37	34.67			25.43	263.0	400.	8.64	34.06	26.46	165.2	1.122
252.	14.27	34.40			25.69	238.5	500.	6.60	34.06	26.75	137.4	1.274
279.	12.92	34.25			25.85	223.3	600.	5.37	34.13	26.97	117.0	1.403
304.	11.80	34.18			26.01	207.9	700.	4.76	34.26	27.14	101.1	1.513
405.	8.52	34.06			26.48	163.5	800.	4.46	34.39	27.27	89.0	1.609
508.	6.48	34.06			26.77	135.6	1000.	3.97	34.51	27.42	76.0	1.776
608.	5.30	34.14			26.98	115.6	1200.	3.41	34.55	27.51	67.9	1.922
810.	4.45	34.40			27.28	88.0						
1012.	3.94	34.51			27.42	75.5						
1167.	3.45	34.54			27.50	68.7						
1389.	2.97	34.54			27.54	64.6						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 39, 24-58N LAT, 154-0W LONG, JULY 3, 1964, 2300 G.C.T.												
DRY BULB 24.8		WET BULB 20.5		WIND SPEED 19, DIR. 09		BAR. 22		WEATHER 01		VIS. 8 CLOUD TYPE 6, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.30	34.91			23.50	439.2	0.	24.30	34.91	23.50	439.2	0.000
10.	24.27	34.91			23.51	438.7	10.	24.27	34.91	23.51	438.7	0.044
30. ^Δ	24.24	34.91			23.52	438.7	20.	24.25	34.91	23.52	438.6	0.088
51. ^Δ	24.23	34.91			23.53	439.2	30.	24.24	34.91	23.52	438.7	0.133
75. ^Δ	23.23	34.95			23.85	409.2	50.	24.24	34.91	23.52	439.4	0.221
77.	23.23	34.95			23.85	409.2	75.	23.23	34.95	23.85	409.2	0.328
101.	22.65	35.13			24.15	381.2	100.	22.69	35.12	24.13	383.0	0.428
126.	21.11	35.12			24.57	341.8	150.	20.36	35.10	24.76	325.1	0.606
153.	20.28	35.09			24.78	323.6	200.	17.92	34.84	25.19	285.6	0.760
177.	19.24	35.00			24.98	304.9	250.	15.38	34.55	25.56	251.0	0.895
192.	18.42	34.91			25.12	292.0	300.	12.74	34.29	25.91	217.8	1.014
226.	16.39	34.62			25.38	267.1	400.	9.32	34.09	26.30	173.7	1.211
253.	15.26	34.54			25.58	249.0	500.	7.04	34.02	26.66	146.1	1.372
279.	13.84	34.38			25.76	231.9	600.	5.56	34.06	26.88	124.9	1.509
304.	12.54	34.27			25.94	215.2	700.	4.71	34.16	27.07	107.5	1.627
404.	9.23	34.09			26.39	172.4	800.	4.23	34.29	27.22	93.3	1.728
505.	6.95	34.02			26.68	145.0	1000.	3.66	34.46	27.41	76.2	1.900
605.	5.50	34.06			26.89	124.0	1200.	3.32	34.53	27.50	68.2	2.046
807.	4.21	34.30			27.23	92.5						
1008.	3.65	34.46			27.41	75.7						
1200.	3.32	34.53			27.50	68.2						
1442.	2.82	34.58			27.59	60.2						

CROMWELL 5, STATION 40, 25-1N LAT, 156-59W LONG, JULY 4, 1964, 1400 G.C.T.												
DRY BULB 24.0		WET BULB 20.8		WIND SPEED 16, DIR. 08		BAR. 20		WEATHER 02		VIS. 7 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.33	35.12			23.65	424.9	0.	24.33	35.12	23.65	424.9	0.000
10.	24.35	35.12			23.65	425.9	10.	24.35	35.12	23.65	425.9	0.043
30. ^Δ	24.35	35.12			23.65	426.7	20.	24.36	35.12	23.65	426.4	0.086
50. ^Δ	24.30	35.12			23.66	426.0	30.	24.35	35.12	23.65	426.7	0.129
74.	23.54	35.12			23.89	405.5	50.	24.30	35.12	23.66	426.0	0.215
97.	22.74	35.10			24.10	385.7	75.	23.52	35.12	23.89	405.0	0.319
120.	20.46	34.94			24.61	337.8	100.	22.47	35.08	24.17	379.8	0.418
145.	18.41	34.77			25.01	300.3	150.	18.28	34.78	25.06	296.4	0.589
169.	17.76	34.81			25.20	282.8	200.	15.62	34.57	25.52	252.8	0.727
184.	16.66	34.69			25.38	266.8	250.	12.96	34.30	25.88	219.4	0.846
216.	14.69	34.47			25.65	241.1	300.	10.93	34.19	26.17	191.8	0.950
242.	13.39	34.34			25.82	224.9	400.	8.24	34.06	26.52	159.2	1.127
267.	12.11	34.24			26.00	208.4	500.	6.43	34.02	26.75	137.5	1.277
292.	11.20	34.20			26.14	195.4	600.	5.16	34.11	26.97	116.3	1.405
388.	8.50	34.07			26.49	162.1	700.	4.52	34.23	27.14	100.5	1.514
486.	6.66	34.02			26.71	140.7	800.	4.19	34.34	27.27	88.9	1.610
579.	5.34	34.08			26.93	120.2	1000.	3.66	34.47	27.42	75.2	1.776
771.	4.30	34.32			27.24	91.7	1200.	3.22	34.55	27.52	65.6	1.919
964.	3.74	34.45			27.40	77.2						
1157.	3.35	34.53			27.50	68.2						
1444.	2.72	34.58			27.60	59.0						

CROMWELL 5, STATION 41, 23-31N LAT, 156-58W LONG, JULY 4, 1964, 2300 G.C.T.												
DRY BULB 23.6		WET BULB 20.2		WIND SPEED 12, DIR. 10		BAR. 21		WEATHER 03		VIS. 7 CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.69	35.01			23.46	443.1	0.	24.69	35.01	23.46	443.1	0.000
9.	24.69	35.00			23.46	444.2	10.	24.69	35.00	23.45	444.4	0.045
30. ^Δ	24.64	35.02			23.49	442.2	20.	24.70	35.00	23.45	445.0	0.089
49.	24.16	35.14			23.72	420.5	30.	24.64	35.02	23.49	442.2	0.134
74.	23.34	35.17			23.98	396.3	50.	24.13	35.14	23.73	419.5	0.221
99.	22.50	35.20			24.25	372.0	75.	23.31	35.17	24.00	395.3	0.324
122.	21.84	35.20			24.43	355.1	100.	22.47	35.20	24.26	371.3	0.420
149.	20.78	35.11			24.66	334.8	150.	20.71	35.10	24.67	333.8	0.598
172.	18.84	34.86			24.97	305.0	200.	16.83	34.77	25.40	265.4	0.749
185.	17.73	34.84			25.23	280.5	250.	14.34	34.49	25.74	233.0	0.874
218.	15.97	34.66			25.51	254.7	300.	12.42	34.32	26.00	208.8	0.986
245.	14.60	34.52			25.71	236.4	400.	9.65	34.12	26.34	177.1	1.180
271.	13.35	34.40			25.88	220.5	500.	7.27	34.05	26.66	146.9	1.344
294.	12.60	34.34			25.98	210.9	600.	5.62	34.11	26.92	122.0	1.480
391.	9.88	34.13			26.31	179.9	700.	4.98	34.24	27.10	105.1	1.595
477.	7.80	34.06			26.59	153.9	800.	4.60	34.37	27.24	92.1	1.694
569.	5.92	34.07			26.85	128.2	1000.	3.86	34.51	27.43	74.4	1.863
757.	4.86	34.33			27.18	97.6	1200.	3.30	34.56	27.53	65.7	2.005
886.	4.14	34.43			27.34	82.7						
996.	3.87	34.51			27.43	74.5						
1183.	3.38	34.55			27.51	67.3						
1200.**	3.30**	34.56**			27.53	65.7						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA			DERIVED DATA			INTERPOLATED DATA						
CROMWELL 5, STATION 42, 22- ON LAT, 156-58W LONG, JULY 5, 1964, 0900 G.C.T.												
DRY BULB 23.8	WET BULB 21.7		WIND SPEED 20,	DIR. 08	BAR. 19	WEATHER 02	VIS. 7	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.52	34.86			23.40	449.1	0.	24.52	34.86	23.40	449.1	0.000
10.	24.52	34.86			23.40	449.5	10.	24.52	34.86	23.40	449.5	0.045
30. Δ	24.52	34.86			23.40	450.2	20.	24.59	34.86	23.38	451.8	0.091
46.	23.72	34.85			23.63	428.9	30.	24.52	34.86	23.40	450.2	0.136
67.	23.38	34.90			23.77	416.6	50.	23.62	34.86	23.67	425.8	0.224
91.	23.14	34.95			23.88	407.3	75.	23.30	34.92	23.80	413.6	0.330
112.	22.83	35.02			24.02	394.5	100.	23.00	34.98	23.94	401.7	0.433
134.	22.68	35.06			24.09	388.4	150.	22.47	35.14	24.21	377.7	0.629
157.	22.34	35.17			24.27	372.1	200.	20.42	35.12	24.76	326.6	0.807
170.	21.97	35.18			24.38	361.8	250.	17.43	34.79	25.27	279.3	0.959
200.	20.42	35.12			24.76	326.6	300.	14.64	34.50	25.68	240.4	1.090
226.	19.09	35.00			25.02	302.9	400.	9.61	34.14	26.37	174.5	1.300
248.	17.53	34.80			25.25	280.7	500.	6.99	34.13	26.75	137.7	1.457
270.	16.56	34.70			25.41	266.5	600.	5.76	34.21	26.98	116.4	1.586
349.	11.48	34.20			26.09	201.7	700.	5.42	34.36	27.14	102.2	1.696
435.	8.68	34.16			26.53	159.1	800.	5.07	34.44	27.25	92.3	1.794
522.	6.53	34.12			26.81	132.0	1000.	4.33	34.52	27.39	79.4	1.968
714.	5.43	34.38			27.15	100.7	1200.	3.68	34.56	27.49	70.3	2.120
873.	4.80	34.48			27.31	87.0						
1048.	4.16	34.53			27.42	77.1						
1283.	3.44	34.56			27.51	68.0						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19
TEMPERATURE ERROR TERM AT 600. METERS IS 0.19

APROM BT DATA

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 6

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 6, STATION 1, 20-34N LAT, 157-17W LONG, JULY 14, 1964, 0900 G.C.T.														
DRY BULB 25.5 WET BULB 21.2 WIND SPEED 18, DIR. 10 BAR. 21 WEATHER 02 VIS. 6 CLOUD TYPE 6, COVER 3														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.74	34.81			22.99	488.2	0.	25.74	34.81	22.99	488.2	0.000		
10.	25.74	34.80			22.98	489.3	10.	25.74	34.80	22.98	489.3	0.049		
50.Δ	25.52	34.79			23.04	485.1	20.	25.71	34.79	22.99	489.0	0.098		
76.	25.33	34.79			23.10	480.6	30.	25.66	34.79	23.00	488.3	0.148		
99.	24.73	34.95			23.41	452.5	50.	25.52	34.79	23.04	485.1	0.246		
123.	24.78	35.18			23.56	438.4	75.	25.34	34.79	23.10	481.0	0.367		
150.	20.81	35.06			24.61	339.2	100.	24.76	34.96	23.41	452.5	0.485		
174.	18.96	34.92			24.99	303.7	150.	20.81	35.06	24.61	339.2	0.685		
189.	18.44	34.86			25.07	295.9	200.	17.69	34.78	25.20	284.1	0.842		
221.	16.19	34.63			25.44	261.8	250.	14.39	34.43	25.68	238.7	0.973		
248.	14.52	34.44			25.66	240.6	300.	11.88	34.26	26.05	203.8	1.085		
273.	12.96	34.33			25.90	218.1	400.	8.70	34.14	26.51	160.4	1.269		
298.	11.96	34.26			26.04	204.9	500.	6.67	34.15	26.82	131.1	1.416		
397.	8.78	34.14			26.50	161.5	600.	5.78	34.28	27.03	111.4	1.538		
496.	6.72	34.15			26.81	132.1	700.	5.36	34.35	27.14	101.6	1.646		
593.	5.82	34.27			27.02	112.4	800.	5.07	34.41	27.22	95.0	1.746		
789.	5.12	34.40			27.21	96.1	1000.	4.18	34.50	27.39	79.4	1.922		
974.	4.26	34.49			27.38	80.6	1200.	3.57	34.54	27.48	70.6	2.074		
1180.	3.71	34.52			27.46	73.4								
1473.	2.95	34.56			27.56	63.4								

CROMWELL 6, STATION 2, 19- ON LAT, 156-58W LONG, JULY 14, 1964, 1900 G.C.T.														
DRY BULB 25.5 WET BULB 22.0 WIND SPEED 18, DIR. 14 BAR. 20 WEATHER 01 VIS. 8 CLOUD TYPE 3, COVER 2														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.39	34.74			23.05	482.9	0.	25.39	34.74	23.05	482.9	0.000		
6.	25.41	34.75			23.05	483.0	10.	25.39	34.75	23.05	482.6	0.049		
18.	25.33	34.75			23.07	481.1	20.	25.32	34.75	23.08	480.8	0.097		
50.Δ	25.06	34.75			23.16	474.5	30.	25.24	34.75	23.10	479.0	0.145		
83.	24.65	34.74			23.27	464.7	50.	25.06	34.75	23.16	474.5	0.242		
107.	23.58	34.84			23.66	428.1	75.	24.81	34.74	23.22	469.4	0.360		
134.	22.60	35.07			24.12	385.5	100.	23.92	34.80	23.54	440.0	0.475		
158.	21.67	35.11			24.41	358.4	150.	21.97	35.10	24.33	366.5	0.678		
184.	21.02	35.18			24.64	337.2	200.	18.18	34.79	25.08	295.5	0.845		
198.	18.38	34.81			25.05	298.4	250.	14.79	34.48	25.63	243.5	0.981		
234.	16.16	34.61			25.43	263.0	300.	12.40	34.28	25.97	211.7	1.096		
260.	13.97	34.40			25.75	232.6	400.	8.54	34.14	26.54	157.5	1.282		
310.	12.16	34.27			26.01	208.2	500.	6.77	34.24	26.87	126.2	1.425		
412.	8.12	34.14			26.60	151.6	600.	5.98	34.32	27.04	110.8	1.545		
513.	6.67	34.26			26.90	123.5	700.	5.47	34.39	27.16	100.0	1.651		
613.	5.91	34.33			27.06	109.4	800.	5.09	34.46	27.26	91.4	1.740		
818.	5.03	34.47			27.27	90.1	1000.	4.37	34.53	27.39	79.4	1.921		
1020.	4.30	34.53			27.40	78.5	1200.	3.80	34.55	27.47	72.5	2.075		
1214.	3.76	34.55			27.47	72.1								
1460.	3.01	34.58			27.57	62.6								

CROMWELL 6, STATION 3, 17-30N LAT, 157- ON LONG, JULY 15, 1964, 0400 G.C.T.														
DRY BULB 25.4 WET BULB 22.5 WIND SPEED 19, DIR. 07 BAR. 16 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.	25.80	34.78			22.95	492.1	0.	25.80	34.78	22.95	492.1	0.000		
10.	25.76	34.77			22.96	492.0	10.	25.76	34.77	22.96	492.0	0.050		
51.	25.51	34.70			22.98	491.3	20.	25.74	34.74	22.94	494.1	0.099		
76.	24.95	34.81			23.23	468.0	30.	25.70	34.72	22.94	494.7	0.149		
101.	22.82	35.00			24.01	395.3	50.	25.52	34.70	22.98	491.6	0.248		
126.	22.01	35.00			24.23	374.3	75.	24.99	34.80	23.22	469.6	0.369		
150.	20.74	35.01			24.59	341.0	100.	22.91	34.99	23.95	398.1	0.479		
176.	18.77	34.88			25.01	302.0	150.	20.74	35.01	24.59	341.0	0.665		
190.	17.79	34.76			25.16	287.8	200.	17.02	34.68	25.28	276.1	0.821		
224.	15.12	34.50			25.58	248.1	250.	13.11	34.30	25.85	222.6	0.946		
250.	13.11	34.30			25.85	222.6	300.	10.59	34.26	26.29	180.7	1.048		
276.	11.39	34.22			26.12	196.9	400.	8.32	34.30	26.70	142.6	1.211		
301.	10.57	34.26			26.30	180.1	500.	7.25	34.42	26.95	119.7	1.343		
401.	8.30	34.30			26.70	142.4	600.	6.59	34.46	27.07	108.9	1.459		
501.	7.24	34.42			26.95	119.5	700.	5.94	34.47	27.17	100.3	1.565		
600.	6.59	34.46			27.07	108.9	800.	5.35	34.48	27.24	93.3	1.662		
800.	5.35	34.48			27.24	93.3	1000.	4.50	34.52	27.37	81.6	1.839		
1000.	4.50	34.52			27.37	81.6	1200.	3.90	34.57	27.48	72.2	1.995		
1200.	3.90	34.57			27.48	72.2	1500.	3.09	34.57	27.56	64.5	2.203		
1500.	3.09	34.57			27.56	64.5								

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 4, 15-56N LAT, 156-59N LONG, JULY 15, 1964, 1400 G.C.T.												
DRY BULB 25.0		WET BULB 22.7		WIND SPEED 20, DIR. 06		BAR. 16		WEATHER 02		VIS. CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.69	34.64			22.88	498.9	0.	25.69	34.64	22.88	498.9	0.000
9.	25.72	34.62			22.86	501.6	10.	25.72	34.62	22.86	501.6	0.050
30.Δ	25.64	34.62			22.88	500.1	20.	25.69	34.62	22.86	501.4	0.101
50.Δ	25.60	34.62			22.89	499.7	30.	25.64	34.62	22.88	500.1	0.151
72.	25.22	34.62			23.01	489.4	50.	25.60	34.62	22.89	499.7	0.252
94.	23.53	34.68			23.56	437.7	75.	25.14	34.61	23.03	487.8	0.376
100.Δ	22.40	34.78			23.96	399.7	100.	22.40	34.78	23.96	399.7	0.488
118.	21.04	34.90			24.43	355.6	150.	18.76	34.89	25.02	299.7	0.664
142.	19.37	34.94			24.90	311.2	200.	13.44	34.30	25.78	227.4	0.797
165.	17.34	34.73			25.24	278.7	250.	11.28	34.23	26.14	193.0	0.903
179.	15.51	34.48			25.48	256.6	300.	9.19	34.23	26.51	159.1	0.992
211.	12.69	34.27			25.91	215.7	400.	7.76	34.37	26.83	129.3	1.138
237.	11.90	34.24			26.04	203.8	500.	6.84	34.43	27.01	113.0	1.260
261.	10.71	34.22			26.24	184.6	600.	5.98	34.43	27.12	103.0	1.369
284.	9.65	34.22			26.42	167.3	700.	5.36	34.46	27.22	93.9	1.449
378.	8.00	34.34			26.78	134.5	800.	4.90	34.49	27.31	86.6	1.560
473.	7.10	34.43			26.98	116.3	1000.	4.22	34.54	27.42	74.6	1.725
568.	6.22	34.42			27.09	106.3	1200.	3.61	34.57	27.51	68.6	1.872
757.	5.08	34.48			27.28	89.3						
947.	4.39	34.53			27.39	79.0						
1137.	3.80	34.56			27.48	71.2						
1381.	3.14	34.59			27.57	62.9						

CROMWELL 6, STATION 5, 14-25N LAT, 156-59N LONG, JULY 15, 1964, 2200 G.C.T.												
DRY BULB 25.9		WET BULB 23.1		WIND SPEED 19, DIR. 07		BAR. 17		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.71	34.68			22.90	496.6	0.	25.71	34.68	22.90	496.6	0.000
10.	25.73	34.68			22.90	497.6	10.	25.73	34.68	22.90	497.6	0.050
30.Δ	25.70	34.69			22.91	496.8	20.	25.72	34.68	22.90	497.5	0.100
50.Δ	25.64	34.69			22.93	495.8	30.	25.70	34.69	22.91	496.8	0.150
77.	24.22	34.82			23.46	446.4	50.	25.64	34.69	22.93	495.8	0.250
101.	23.47	34.91			23.75	419.7	75.	24.34	34.81	23.42	450.6	0.369
126.	22.12	35.08			24.26	371.4	100.	23.50	34.91	23.74	420.9	0.479
152.	20.00	35.00			24.78	322.9	150.	20.18	35.01	24.74	326.3	0.668
177.	17.96	34.78			25.13	289.9	200.	15.00	34.45	25.57	248.3	0.812
191.	16.17	34.56			25.39	265.5	250.	10.35	34.20	26.29	179.7	0.920
225.	12.15	34.26			26.01	206.6	300.	9.37	34.37	26.59	151.7	1.004
251.	10.30	34.20			26.30	178.9	400.	8.39	34.52	26.86	127.5	1.145
278.	9.73	34.30			26.47	162.6	500.	7.20	34.49	27.01	113.7	1.266
302.	9.34	34.38			26.60	150.9	600.	6.53	34.50	27.11	105.1	1.377
401.	8.38	34.52			26.86	127.4	700.	5.84	34.50	27.20	97.1	1.479
501.	7.19	34.49			27.01	113.6	800.	5.21	34.50	27.28	89.9	1.574
602.	6.52	34.50			27.11	105.0	1000.	4.38	34.54	27.40	78.7	1.744
801.	5.20	34.50			27.28	89.9	1200.	3.76	34.57	27.49	70.5	1.895
1001.	4.38	34.54			27.40	78.6						
1200.	3.76	34.57			27.49	70.5						
1482.	3.00	34.61			27.60	60.4						

CROMWELL 6, STATION 6, 13- 6N LAT, 157- 2N LONG, JULY 16, 1964, 0600 G.C.T.												
DRY BULB 26.3		WET BULB 23.5		WIND SPEED 18, DIR. 07		BAR. 15		WEATHER 02		VIS. 8 CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	26.61	34.62			22.58	527.9	0.	26.61	34.62	22.58	527.8	0.000
11.Δ	26.63	34.62			22.57	528.9	10.	26.63	34.62	22.57	528.9	0.053
30.Δ	26.52	34.61			22.60	527.1	20.	26.59	34.62	22.58	528.4	0.106
50.Δ	26.36	34.61			22.65	523.0	30.	26.52	34.61	22.60	527.1	0.160
77.	23.78	34.60			23.42	449.8	50.	26.36	34.61	22.65	523.0	0.265
102.	22.90	34.84			23.86	409.0	75.	23.99	34.60	23.36	455.9	0.389
127.	20.27	34.77			24.53	345.5	100.	22.98	34.62	23.83	412.3	0.498
153.	18.23	34.80			25.08	294.1	150.	18.49	34.80	25.02	299.9	0.678
178.	14.67	34.42			25.62	243.2	200.	11.87	34.20	26.01	205.3	0.805
193.	12.55	34.24			25.91	214.8	250.	9.73	34.28	26.45	163.6	0.898
227.	10.30	34.19			26.29	179.1	300.	9.52	34.51	26.67	143.7	0.975
254.	9.69	34.30			26.48	161.5	400.	8.61	34.59	26.88	125.7	1.111
282.	9.51	34.42			26.60	150.3	500.	7.79	34.56	26.98	116.9	1.234
305.	9.52	34.54			26.69	142.0	600.	6.78	34.52	27.10	106.7	1.347
407.	8.52	34.58			26.89	125.2	700.	5.93	34.53	27.21	95.8	1.449
511.	7.70	34.56			26.99	116.1	800.	5.26	34.56	27.31	86.6	1.541
612.	6.65	34.52			27.11	105.4	1000.	4.31	34.52	27.40	79.0	1.709
815.	5.18	34.56			27.33	85.3	1200.	3.74	34.57	27.50	70.0	1.860
1018.	4.25	34.52			27.40	78.6						
1220.	3.69	34.58			27.51	69.1						
1498.	2.93	34.61			27.60	59.6						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION		7, 11-31N LAT, 157- 1M LCMG, JULY 16, 1964, 1600 G.C.T.			BAR. 13			WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 6	
DRY BULB 26.0	WET BULB 23.5												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.63	34.64			22.59	527.0	0.	26.63	34.64	22.59	527.0	0.000	
10.	26.61	34.64			22.59	526.8	10.	26.61	34.64	22.59	526.8	0.053	
30.Δ	26.60	34.65			22.60	526.6	20.	26.61	34.64	22.60	526.8	0.106	
49.	26.52	34.66			22.64	524.2	30.	26.60	34.65	22.60	526.6	0.159	
75.Δ	23.50	34.64			23.54	439.0	50.	26.41	34.66	22.67	521.1	0.265	
77.	23.37	34.64			23.57	435.5	75.	23.50	34.64	23.54	439.0	0.386	
101.	20.62	34.88			24.52	345.6	100.	20.76	34.87	24.48	349.9	0.485	
125.	17.26	34.70			25.24	277.8	150.	13.57	34.37	25.81	223.6	0.630	
151.	13.43	34.36			25.83	221.8	200.	10.63	34.52	26.49	159.7	0.726	
175.	11.21	34.33			26.24	183.3	250.	10.45	34.68	26.64	146.1	0.803	
190.	10.68	34.44			26.42	166.3	300.	9.80	34.67	26.75	136.8	0.875	
224.	10.73	34.67			26.59	151.0	400.	8.71	34.61	26.88	125.8	1.007	
251.	10.44	34.68			26.65	145.9	500.	7.71	34.56	26.99	116.0	1.129	
276.	10.02	34.68			26.72	139.4	600.	6.70	34.53	27.11	105.2	1.241	
302.	9.78	34.67			26.75	136.7	700.	5.94	34.53	27.21	96.2	1.342	
401.	8.70	34.61			26.88	125.7	800.	5.34	34.54	27.29	88.7	1.436	
602.	7.69	34.56			26.99	115.8	1000.	4.42	34.55	27.41	78.3	1.605	
802.	6.68	34.53			27.11	105.0	1200.	3.67	34.58	27.51	68.7	1.754	
1002.	5.33	34.54			27.29	88.6	1500.	2.89	34.61	27.61	59.2	1.948	
1200.	4.41	34.55			27.41	78.3							
1501.	3.67	34.58			27.51	68.7							
	2.89	34.61			27.61	59.2							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION		7A, 10- ON LAT, 153-58M LCMG, JULY 17, 1964, 1100 G.C.T.			BAR. 13			WEATHER 02		VIS.		CLOUD TYPE , COVER	
DRY BULB 26.0	WET BULB 23.9												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.68	33.74	5.10	0.22	21.89	593.3	0.	26.68	33.74	21.89	593.3	0.000	
9.	26.70	33.77	4.97	0.35	21.91	592.1	10.	26.70	33.77	21.91	592.2	0.060	
20.Δ	26.70	33.76			21.90	593.2	20.	26.70	33.76	21.90	593.2	0.119	
30.Δ	26.66	33.78			21.93	591.0	30.	26.66	33.78	21.93	591.0	0.179	
40.Δ	20.38	34.47	4.67	0.67	24.28	366.9	50.	15.60	34.43	25.42	258.3	0.265	
50.Δ	15.60	34.43			25.42	258.3	75.	12.07	34.39	26.13	191.6	0.321	
55.	14.66	34.42	2.64	1.48	25.62	239.5	100.	11.22	34.49	26.36	169.8	0.367	
65.	13.26	34.39	2.22	1.80	25.89	214.0	150.	10.77	34.67	26.58	150.0	0.447	
77.	11.89	34.40	1.71	2.12	26.14	188.0	200.	10.28	34.70	26.69	141.0	0.521	
89.	11.54	34.46	1.43	2.09	26.28	177.5	250.	9.62	34.66	26.77	133.4	0.590	
113.	10.90	34.52	1.01	2.52	26.44	162.5	300.	9.38	34.65	26.80	131.5	0.657	
160.	10.78	34.70	0.41	2.47	26.60	148.2	400.	8.63	34.64	26.92	122.2	0.785	
174.	10.63	34.70	0.41	2.46	26.63	146.0	500.	7.65	34.58	27.02	113.6	0.904	
230.	9.86	34.68	0.47		26.75	135.7	600.	6.74	34.55	27.12	104.5	1.014	
254.	9.58	34.66	0.41	2.63	26.78	133.1	700.	6.00	34.54	27.21	96.3	1.115	
276.	9.50	34.65	0.48	2.47	26.78	133.0	800.	5.39	34.54	27.29	89.0	1.209	
368.	8.92	34.66	0.70	2.62	26.88	124.8	1000.	4.46	34.57	27.42	77.5	1.377	
461.	8.03	34.60	0.44	2.97	26.98	117.2	1200.	3.74	34.59	27.51	68.9	1.526	
552.	7.15	34.56	0.51	2.93	27.07	108.7							
737.	5.76	34.54	0.86	2.98	27.24	93.5							
923.	4.77	34.56	0.92	3.02	27.37	81.3							
1108.	4.08	34.58	1.27	3.54	27.47	72.9							
1372.	3.27	34.60	1.73	2.48	27.56	63.6							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION		8, 11-33N LAT, 154- 0M LCMG, JULY 17, 1964, 2000 G.C.T.			BAR. 13			WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5	
DRY BULB 26.9	WET BULB 23.9												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.Δ	27.00	34.13			22.08	574.9	0.	27.00	34.13	22.08	574.9	0.000	
10.	27.00	34.13	5.04	0.30	22.08	575.3	10.	27.00	34.13	22.08	575.3	0.058	
30.Δ	27.00	34.13			22.08	576.1	20.	27.07	34.10	22.04	580.0	0.116	
50.	25.80	34.58	5.13	0.24	22.80	508.5	30.	27.00	34.13	22.08	576.1	0.174	
40.	24.62	34.66	5.23	0.34	23.22	468.7	50.	25.80	34.58	22.80	508.5	0.284	
77.	22.30	34.94	5.36	0.19	24.11	386.5	75.	22.59	34.91	24.00	394.4	0.397	
103.	18.38	34.78	4.59	0.49	25.03	297.4	100.	18.86	34.82	24.94	305.7	0.486	
127.	14.31	34.42	3.15		25.69	234.4	150.	12.40	34.59	26.21	185.0	0.609	
153.	12.26	34.63	0.93	2.22	26.27	179.7	200.	10.78	34.74	26.63	146.4	0.693	
178.	11.62	34.74	0.38	2.48	26.48	160.6	250.	10.26	34.71	26.70	140.4	0.765	
183.	11.29	34.74	0.48	2.22	26.54	154.8	300.	9.60	34.67	26.78	133.9	0.834	
227.	10.60	34.73	1.22	2.24	26.66	144.5	400.	8.88	34.63	26.87	126.9	0.966	
254.	10.20	34.71	0.99	2.36	26.71	139.7	500.	7.69	34.55	26.99	116.6	1.089	
281.	9.80	34.69	0.86	2.49	26.76	135.1	600.	6.69	34.52	27.10	105.8	1.201	
307.	9.54	34.66	0.68	2.54	26.78	133.6	700.	5.95	34.52	27.20	97.4	1.304	
408.	8.82	34.63	0.59	2.65	26.88	126.2	800.	5.38	34.52	27.27	90.8	1.399	
510.	7.56	34.54	0.61	2.55	27.00	115.5	1000.	4.55	34.54	27.38	80.9	1.572	
612.	6.59	34.52	0.69	2.71	27.12	104.6	1200.	3.86	34.56	27.47	72.6	1.728	
814.	5.31	34.52	0.83	2.71	27.28	90.0							
1018.	4.49	34.54	1.18	2.93	27.39	80.2							
1207.	3.84	34.56	1.32	2.94	27.47	72.3							
1441.	3.19	34.58	1.72		27.55	64.6							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.16

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 26.1		6, STATION WET BULB 23.4		9, 13- 4N LAT, 154- 4W LCNG, JULY 18, 1964, 0600 G.C.T.		WIND SPEED 18, DIR. 07		BAR. 13		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	26.43	34.69	6.03	0.25	22.69	517.4	0.	26.43	34.69	22.69	517.4	0.000			
11.	26.44	34.68	5.09	0.20	22.68	518.8	10.	26.44	34.68	22.68	518.7	0.052			
50.	26.36	34.72			22.73	515.1	20.	26.44	34.68	22.68	518.8	0.104			
75.	26.22	34.75	5.14	0.28	22.80	509.8	30.	26.42	34.69	22.69	518.3	0.157			
99.	22.70	34.83	5.47	0.23	23.91	404.2	50.	26.36	34.72	22.73	515.1	0.261			
123.	20.72	35.04	5.25	0.26	24.62	337.4	75.	26.22	34.75	22.80	509.8	0.390			
148.	18.56	34.85	4.83	0.47	25.04	298.2	100.	22.60	34.84	23.95	400.7	0.505			
171.	15.40	34.50	3.56	1.26	25.52	252.5	150.	18.29	34.82	25.08	293.8	0.680			
187.	13.81	34.32	3.51	1.20	25.72	233.2	200.	12.91	34.38	25.95	211.4	0.807			
221.	11.87	34.58	0.87	1.97	26.31	177.9	250.	10.77	34.60	26.53	157.4	0.900			
247.	10.84	34.60*	0.89	2.12	26.51	158.6	300.	10.03	34.60	26.66	145.8	0.976			
272.	10.39	34.60	0.56	2.01	26.59	151.4	400.	9.05	34.62	26.83	130.7	1.116			
296.	10.07	34.60	0.45	2.34	26.65	146.5	500.	8.00	34.56	26.95	120.5	1.243			
393.	9.12	34.62	0.41	2.41	26.82	131.5	600.	7.02	34.54	27.07	109.1	1.359			
492.	8.08	34.56	0.41	2.08	26.94	121.5	700.	6.22	34.54	27.18	99.4	1.464			
590.	7.11	34.54	0.43	2.05	27.06	110.2	800.	5.56	34.54	27.27	91.6	1.560			
786.	5.64	34.54	0.70	2.97	27.26	92.5	1000.	4.59	34.54	27.38	81.0	1.735			
982.	4.66	34.54	0.95	2.89	27.37	82.0	1200.	3.90	34.57	27.48	72.4	1.890			
1182.	3.99	34.58	1.24	2.38	27.48	72.5									
1480.	3.32**	34.60	1.83	2.57	27.56	65.0									

CROMWELL DRY BULB 25.5		6, STATION WET BULB 22.6		10, 14-27N LAT, 153-54W LCNG, JULY 18, 1964, 1400 G.C.T.		WIND SPEED 14, DIR. 06		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.93	34.80	5.11	0.29	22.93	494.5	0.	25.93	34.80	22.93	494.5	0.000			
9.	25.96	34.81	5.11	0.24	22.92	495.0	10.	25.96	34.81	22.92	495.1	0.050			
30.	25.92	34.81			22.94	494.7	20.	25.95	34.81	22.93	495.0	0.100			
50.	25.88	34.81			22.95	494.3	30.	25.92	34.81	22.94	494.7	0.150			
74.	23.25	34.76	5.47	0.23	23.70	423.4	50.	25.88	34.81	22.95	494.3	0.249			
98.	22.45	34.97	5.41	0.21	24.05	387.2	75.	23.21	34.77	23.72	421.6	0.365			
122.	20.63	34.93	5.03	0.38	24.56	343.0	100.	22.31	34.97	24.13	383.5	0.466			
147.	19.15	34.92	4.67	0.44	24.94	307.4	150.	18.93	34.90	24.98	303.9	0.639			
172.	17.11	34.66	4.30	0.63	25.25	278.8	200.	14.15	34.36	25.68	237.2	0.776			
187.	15.71	34.50	4.31	0.76	25.45	259.7	250.	10.89	34.28	26.25	183.3	0.882			
220.	12.02	34.22	3.47	1.49	26.00	207.0	300.	10.17	34.56	26.60	151.0	0.966			
246.	10.94	34.23	1.53	1.95	26.21	187.5	400.	8.90	34.56	26.81	132.8	1.109			
271.	10.72	34.52	0.77		26.47	163.0	500.	7.63	34.50	26.96	119.3	1.236			
295.	10.25	34.56	0.55	2.48	26.59	152.5	600.	6.62	34.50	27.10	106.3	1.350			
394.	8.98	34.56	0.35	2.62	26.80	133.7	700.	5.89	34.50	27.20	97.5	1.453			
493.	7.71	34.50	0.51	2.72	26.94	120.3	800.	5.33	34.51	27.27	90.7	1.548			
591.	6.69	34.50	0.46	2.57	27.09	107.2	1000.	4.38	34.54	27.40	78.6	1.720			
788.	5.40	34.51	0.71	2.69	27.26	91.6	1200.	3.73	34.55	27.48	71.6	1.872			
986.	4.43	34.54	0.92		27.40	79.1									
1183.	3.86	34.54	1.26	2.71	27.46	73.8									
1482.	3.06	34.57	1.64	2.86	27.56	64.0									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14

CROMWELL DRY BULB 25.9		6, STATION WET BULB 23.0		11, 16- ON LAT, 154- 1W LCNG, JULY 18, 1964, 2300 G.C.T.		WIND SPEED 15, DIR. 06		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.44	34.68	5.05	0.27	22.99	488.7	0.	25.44	34.68	22.99	488.7	0.000			
9.	25.29	34.68	5.12	0.26	23.03	484.7	10.	25.30	34.68	23.03	485.2	0.049			
30.	25.14	34.72			23.11	478.2	20.	25.31	34.68	23.03	485.7	0.098			
49.	23.40	35.00	5.52	0.20	23.84	409.3	30.	25.14	34.72	23.11	478.2	0.146			
75.	22.72	35.05	5.51	0.26	24.07	387.9	50.	23.36	35.01	23.85	407.7	0.236			
99.	21.95	35.10	5.37	0.24	24.33	364.4	75.	22.72	35.05	24.07	387.9	0.336			
125.	20.19	34.96	4.85		24.70	329.7	100.	21.89	35.10	24.34	363.2	0.431			
150.	18.45	34.81	4.79	0.54	25.03	298.5	150.	18.45	34.81	25.03	298.5	0.597			
175.	15.95	34.48	3.96	0.98	25.38	266.0	200.	13.34	34.25	25.77	229.0	0.730			
188.	14.54	34.38	4.29		25.61	243.7	250.	10.49	34.45	26.46	163.7	0.829			
223.	11.53	34.14	3.97	1.27	26.03	204.1	300.	9.76	34.44	26.58	153.2	0.909			
250.	10.49	34.45*	2.23		26.46	163.7	400.	8.62	34.50	26.81	132.5	1.033			
276.	10.43	34.46	0.98	2.06	26.48	162.5	500.	7.70	34.50	26.95	120.3	1.181			
300.	9.76	34.44	0.89	2.35	26.58	153.2	600.	6.83	34.48	27.05	110.7	1.298			
400.	8.62	34.50	0.37	2.60	26.81	132.5	700.	6.16	34.48	27.15	102.5	1.405			
500.	7.70	34.50	0.37		26.95	120.3	800.	5.61	34.50	27.23	95.3	1.505			
601.	6.82	34.48	0.50		27.06	110.6	1000.	4.60	34.52	27.36	82.9	1.686			
802.	5.60	34.50	0.64	2.78	27.23	95.1	1200.	3.99	34.56	27.46	74.2	1.845			
1001.	4.60	34.52	0.93	2.69	27.36	82.9									
1202.	3.99	34.56	1.19	2.85	27.46	74.1									
1486.	3.37	34.57	1.49	2.85	27.53	67.9									

AFROM BT DATA
*INTERPOLATED DATA
**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL		6, STATION	12, 17-30N LAT, 153-59W LONG, JULY 19, 1964, 0900 G.C.T.									
DRY BULB 25.0		WET BULB 22.9	WIND SPEED 16, DIR. 07		BAR. 16	WEATHER 02		VIS. 7	CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.19	34.69	5.22	0.22	23.07	480.7	0.	25.19	34.69	23.07	480.7	0.000
10.	25.19	34.68	5.23	0.26	23.06	481.8	10.	25.19	34.68	23.06	481.8	0.048
30.	25.20	34.68			23.06	482.9	20.	25.20	34.68	23.06	482.6	0.097
51.	25.10	34.68	5.23	0.22	23.09	480.8	30.	25.20	34.68	23.06	482.9	0.146
76.	23.92	34.69	5.47	0.30	23.45	447.2	50.	25.12	34.68	23.09	481.2	0.243
100.	23.10	34.89	5.48	0.23	23.84	410.9	75.	23.98	34.69	23.43	448.9	0.360
124.	22.26	35.04	5.50	0.19	24.20	378.0	100.	23.10	34.89	23.84	410.9	0.468
149.	21.63	35.15	5.42	0.23	24.45	354.2	150.	21.61	35.15	24.46	353.5	0.661
173.	20.72	35.12	5.20	0.84	24.68	333.4	200.	17.80	34.74	25.14	289.6	0.823
187.	19.30	34.92	4.91	0.40	24.90	312.5	250.	12.91	34.29	25.88	219.2	0.951
222.	15.33	34.49	4.24	0.81	25.53	253.3	300.	10.36	34.31	26.37	173.1	1.050
247.	13.15	34.31	4.18	0.91	25.85	222.5	400.	8.46	34.37	26.73	139.3	1.208
272.	11.41	34.22	3.80	1.24	26.11	197.2	500.	7.32	34.42	26.94	120.5	1.339
296.	10.48	34.30	2.54	1.76	26.34	175.5	600.	6.57	34.44	27.06	109.9	1.455
393.	8.56	34.37	1.28	2.42	26.71	141.0	700.	5.89	34.46	27.16	100.9	1.562
492.	7.39	34.42	0.72	2.74	26.93	121.5	800.	5.33	34.47	27.24	93.5	1.660
590.	6.64	34.44	0.63	2.73	27.05	110.9	1000.	4.50	34.51	27.37	82.1	1.838
785.	5.40	34.47	0.79	2.69	27.23	94.5	1200.	3.79	34.55	27.47	72.6	1.994
981.	4.58	34.51	1.08	2.97	27.36	83.1						
1167.	3.87	34.54	1.20	2.79	27.46	73.8						
1411.	3.23	34.58	1.62	2.91	27.55	64.9						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL		6, STATION	13, 18-59N LAT, 153-59W LONG, JULY 19, 1964, 1800 G.C.T.									
DRY BULB 24.0		WET BULB 22.5	WIND SPEED 19, DIR. 07		BAR. 18	WEATHER 91		VIS. 3	CLOUD TYPE 7, COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	25.04	34.88	4.35	0.18	23.26	462.6	0.	25.04	34.88	23.26	462.6	0.000
9.	25.04	34.88	5.03	0.18	23.26	463.0	10.	25.04	34.88	23.26	463.1	0.047
30.	25.00	34.88			23.27	462.6	20.	25.03	34.88	23.26	463.4	0.093
49.	24.81	34.92	5.10	0.21	23.36	455.0	30.	25.00	34.88	23.27	462.6	0.140
74.	23.63	35.00	5.33	0.36	23.77	416.7	50.	24.77	34.92	23.37	453.7	0.232
98.	22.67	34.99	5.31	0.27	24.03	392.5	75.	23.58	35.00	23.78	415.5	0.342
123.	22.26	35.09	5.22	0.20	24.23	374.4	100.	22.63	34.99	24.05	391.0	0.443
147.	21.49	35.14	5.05	0.22	24.49	351.1	150.	21.38	35.14	24.52	348.0	0.629
173.	20.43	35.13	4.83	0.23	24.77	325.2	200.	18.92	34.95	25.02	301.2	0.793
197.	19.74	35.06	4.73	0.30	24.89	313.3	250.	15.55	34.59	25.55	252.0	0.933
220.	17.95	34.78	4.63	0.42	25.23	281.7	300.	12.12	34.24	25.99	209.7	1.049
248.	15.70	34.60	4.71	0.50	25.53	254.0	400.	8.05	34.08	26.57	154.5	1.233
272.	13.94	34.42	4.75	0.63	25.77	230.9	500.	6.92	34.24	26.86	127.9	1.375
297.	12.30	34.25	4.94	0.84	25.97	211.9	600.	6.04	34.32	27.03	111.5	1.496
396.	8.13	34.08	3.70	1.91	26.55	155.9	700.	5.35	34.40	27.18	98.1	1.602
496.	6.96	34.24	1.35	2.39	26.85	128.7	800.	4.82	34.46	27.29	87.9	1.696
596.	6.07	34.32	0.72	2.81	27.03	112.1	1000.	4.07	34.52	27.42	76.3	1.862
796.	4.84	34.46	0.85	2.77	27.29	88.2	1200.	3.49	34.56	27.51	67.8	2.008
998.	4.08	34.52	1.03	2.92	27.42	76.4	1500.	2.78	34.60	27.61	58.6	2.200
1197.	3.54	34.56	1.26	2.78	27.50	68.5						
1500.	2.78	34.60	1.58	2.58	27.61	58.6						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL		6, STATION	14, 20-28N LAT, 154- 2M LONG, JULY 20, 1964, 0300 G.C.T.									
DRY BULB 24.9		WET BULB 21.9	WIND SPEED 18, DIR. 06		BAR. 17	WEATHER 01		VIS. 8	CLOUD TYPE 6, COVER 1			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	24.92	34.97	5.11	0.26	23.36	452.7	0.	24.92	34.97	23.36	452.7	0.000
11.	24.85	34.97	5.19	0.20	23.39	451.1	10.	24.86	34.97	23.38	451.2	0.046
30.	24.62	34.96			23.45	445.9	20.	24.75	34.97	23.41	448.7	0.091
51.	24.39	34.94	5.33	0.19	23.50	441.6	30.	24.62	34.96	23.45	445.9	0.136
76.	23.23	35.02	5.40	0.15	23.90	404.2	50.	24.41	34.94	23.50	442.1	0.225
101.	22.78	35.10	5.33	0.15	24.09	387.0	75.	23.28	35.02	23.89	405.8	0.332
125.	22.44	35.16	5.09	0.35	24.24	374.3	100.	22.79	35.10	24.09	387.4	0.432
151.	21.43	35.18	5.10	0.24	24.53	346.8	150.	21.48	35.18	24.52	348.0	0.617
176.	20.03	35.06	4.78	0.55	24.82	320.2	200.	18.67	34.93	25.07	297.0	0.780
191.	19.34	35.00	4.73		24.95	307.8	250.	15.59	34.58	25.54	252.8	0.919
223.	16.88	34.72	4.77	0.48	25.35	270.8	300.	12.45	34.29	25.97	211.7	1.036
251.	15.54	34.58	4.87	0.56	25.55	252.1	400.	8.61	34.08	26.48	163.2	1.225
276.	13.62	34.40	4.86	0.82	25.82	226.0	500.	6.69	34.10	26.77	135.5	1.376
301.	12.41	34.29	5.11	0.83	25.98	211.2	600.	5.54	34.20	27.00	114.1	1.502
402.	8.55	34.08	4.16	1.62	26.49	162.4	700.	5.01	34.33	27.16	99.0	1.609
501.	6.68	34.10	2.22	2.22	26.77	135.3	800.	4.75	34.44	27.28	88.5	1.704
600.	5.54	34.20	1.16	2.09	27.00	114.1	1000.	4.12	34.50	27.40	78.4	1.873
799.	4.75	34.44	0.95	2.55	27.28	88.6	1200.	3.58	34.54	27.49	70.2	2.023
998.	4.13	34.50	1.08	2.36	27.40	78.4						
1198.	3.58	34.54	1.29	2.67	27.48	70.5						
1499.	2.91	34.59	1.71	2.70	27.59	60.9						

AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION 15, 21-59N LAT, 153-59W LONG, JULY 20, 1964, 1300 G.C.T.												
DRY BULB 24.5	WET BULB 20.5		WIND SPEED 25, DIR. 07			BAR. 19	WEATHER 02	VIS. 6	CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.85	34.97	5.16	0.32	23.39	450.6	0.	24.85	34.97	23.39	450.6	0.000
10.	24.84	34.98	5.20	0.20	23.40	450.0	10.	24.84	34.98	23.40	450.0	0.045
30Δ	24.84	34.98			23.40	450.8	20.	24.84	34.98	23.40	450.5	0.091
51.	24.76	35.00	5.19	0.13	23.43	447.9	30.	24.84	34.98	23.40	450.8	0.136
76.	23.76	35.08	5.39		23.79	414.6	50.	24.77	35.00	23.43	448.3	0.227
99.	22.90	35.16	5.42		24.10	385.8	75.	23.81	35.00	23.78	416.2	0.336
124.	22.18	35.16	5.22	0.26	24.31	367.2	100.	22.87	35.16	24.11	385.0	0.436
149.	20.95	35.03	4.91	0.34	24.55	345.0	150.	20.90	35.03	24.56	343.8	0.620
173.	19.83	35.02	4.77	0.31	24.84	318.0	200.	18.66	34.92	25.07	297.2	0.782
187.	19.26	34.98	4.73	0.38	24.96	307.1	250.	15.52	34.55	25.59	253.9	0.921
219.	17.62	34.80	4.77	0.59	25.23	281.9	300.	12.65	34.28	25.92	216.5	1.039
246.	15.75	34.57	4.47	0.67	25.49	257.2	400.	9.28	34.13	26.41	170.3	1.234
270.	14.40	34.45	4.58	0.72	25.70	238.0	500.	6.90	34.08	26.73	139.8	1.391
294.	12.93	34.30	4.83	1.03	25.88	220.2	600.	5.56	34.14	26.95	119.0	1.522
390.	9.58	34.14	4.04	1.84	26.37	174.2	700.	4.84	34.25	27.12	102.4	1.633
488.	7.12	34.08	2.64	1.91	26.70	142.7	800.	4.47	34.36	27.26	89.9	1.731
585.	5.70	34.12	1.48	2.55	26.92	121.9	1000.	3.95	34.46	27.40	77.5	1.900
782.	4.53	34.36	0.90	2.61	27.24	91.6	1200.	3.45	34.53	27.49	69.6	2.049
977.	4.02	34.48	1.15	2.92	27.39	78.4						
1174.	3.48	34.50	1.41	2.09	27.46	72.1						
1435.	2.96	34.57	1.68		27.57	62.5						

CROMWELL 6, STATION 16, 23-32N LAT, 153-59W LONG, JULY 20, 1964, 2200 G.C.T.												
DRY BULB 24.5	WET BULB 21.3		WIND SPEED 24, DIR. 06			BAR. 21	WEATHER 01	VIS. 7	CLOUD TYPE 6, COVER 5			
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.80	34.87	5.24	0.23	23.32	456.4	0.	24.80	34.87	23.32	456.4	0.000
10.	24.82	34.88	5.23		23.33	456.6	10.	24.82	34.88	23.33	456.6	0.046
30Δ	24.82	34.88			23.33	457.4	20.	24.82	34.88	23.33	457.0	0.092
50Δ	24.82	34.88			23.33	458.2	30.	24.82	34.88	23.33	457.4	0.138
76.	24.11	35.12	5.46	0.18	23.72	421.6	50.	24.82	34.88	23.33	458.2	0.230
101.	22.99	35.16	5.43	0.07	24.08	388.4	75.	24.15	35.11	23.70	423.4	0.341
125.	21.94	35.17	5.40	0.18	24.38	360.1	100.	23.04	35.16	24.06	389.7	0.444
151.	20.76	35.08	4.93	0.61	24.64	336.5	150.	20.80	35.08	24.63	337.4	0.627
177.	19.80	35.08	5.03	0.31	24.89	313.0	200.	18.48	34.91	25.10	294.0	0.786
192.	18.93	34.96	4.88	0.35	25.03	300.7	250.	15.15	34.54	25.60	246.8	0.922
225.	16.98	34.74	4.92	0.47	25.34	271.7	300.	12.21	34.24	25.98	210.9	1.038
252.	15.00	34.52	4.94	0.60	25.62	244.9	400.	9.18	34.07	26.38	173.2	1.232
278.	13.45	34.37	4.98	0.67	25.83	224.9	500.	6.67	34.03	26.72	140.4	1.390
302.	12.10	34.23	5.11	0.50	25.99	209.8	600.	5.37	34.09	26.94	119.7	1.521
403.	9.13	34.07	4.73	1.47	26.39	172.3	700.	4.73	34.23	27.12	102.7	1.634
504.	6.59	34.03	2.81	2.06	26.73	139.3	800.	4.39	34.37	27.27	89.4	1.731
605.	5.33	34.10	1.40	2.58	26.95	118.9	1000.	3.88	34.48	27.41	77.1	1.899
807.	4.38	34.38	1.10	2.75	27.28	88.6	1200.	3.41	34.54	27.50	68.5	2.047
1007.	3.87	34.48	1.26	2.89	27.41	76.9						
1209.	3.40	34.54	1.40	2.54	27.50	68.4						

CROMWELL 6, STATION 17, 23-27N LAT, 150-59W LONG, JULY 21, 1964, 1700 G.C.T.												
DRY BULB 23.6	WET BULB 20.8		WIND SPEED 16, DIR. 05			BAR. 19	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 2			
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.46	34.92			23.46	443.0	0.	24.46	34.92	23.46	443.0	0.000
9.	24.47	34.93			23.47	442.9	10.	24.47	34.93	23.47	443.0	0.045
30Δ	24.46	34.93			23.47	443.5	20.	24.47	34.93	23.47	443.3	0.089
50Δ	24.40	34.94			23.50	441.8	30.	24.46	34.93	23.47	443.5	0.134
74.	22.78	35.29			24.24	372.2	50.	24.40	34.94	23.50	441.8	0.223
98.	22.01	35.27			24.44	353.7	75.	22.74	35.29	24.25	371.0	0.325
122.	21.25	35.26			24.64	335.2	100.	21.96	35.27	24.46	352.2	0.417
147.	19.87	35.05			24.85	315.9	150.	19.63	35.03	24.90	311.7	0.584
170.	18.03	34.87			25.18	284.8	200.	16.28	34.65	25.44	261.3	0.728
185.	17.18	34.76			25.31	273.5	250.	13.21	34.28	25.81	225.9	0.851
218.	15.13	34.52			25.59	246.7	300.	11.82	34.22	26.04	205.2	0.960
244.	13.37	34.30			25.80	227.5	400.	9.05	34.08	26.41	170.2	1.149
270.	12.82	34.25			25.87	221.1	500.	6.88	34.05	26.70	142.1	1.307
293.	12.04	34.23			26.00	208.4	600.	5.53	34.14	26.96	118.1	1.438
391.	9.28	34.09			26.38	173.0	700.	4.85	34.26	27.13	102.2	1.550
490.	7.06	34.04			26.68	144.8	800.	4.50	34.36	27.25	91.1	1.647
588.	5.64	34.13			26.93	120.4	1000.	3.91	34.49	27.41	76.7	1.817
784.	4.56	34.35			27.23	92.7	1200.	3.41	34.54	27.50	68.5	1.964
977.	3.97	34.48			27.40	77.8						
1178.	3.48	34.52			27.48	70.6						
1399.	2.99	34.56			27.56	63.4						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.8		6, STATION WET BULB 21.8		18, 21-58N LAT, 151- WIND SPEED 18, DIR. 05		0W LONG, JULY 22, 1964, BAR. 16		0200 G.C.T. WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.		
0.	24.74	34.84			23.32	456.8	0.	24.74	34.84	23.32	456.8	0.000		
10.	24.69	34.84			23.34	455.8	10.	24.69	34.84	23.34	455.8	0.046		
50.	23.92	35.02			23.70	422.4	20.	24.58	34.87	23.39	450.5	0.092		
75.	23.05	35.11			24.02	392.7	30.	24.41	34.91	23.48	443.1	0.137		
100.	22.58	35.20			24.23	374.3	50.	23.92	35.02	23.70	422.4	0.224		
125.	21.92	35.22			24.43	355.9	75.	23.05	35.11	24.02	392.7	0.326		
151.	20.86	35.18			24.69	331.9	100.	22.58	35.20	24.23	374.3	0.423		
176.	19.79	35.07			24.85	313.4	150.	20.90	35.18	24.68	332.8	0.601		
190.	19.35	35.02			24.97	306.6	200.	18.91	34.96	25.04	300.2	0.761		
223.	17.60	34.79			25.23	282.3	250.	15.71	34.55	25.49	257.9	0.901		
250.	15.71	34.55			25.49	257.9	300.	12.33	34.24	25.95	213.5	1.020		
275.	14.14	34.40			25.71	236.5	400.	8.85	34.07	26.43	167.9	1.213		
299.	12.38	34.24			25.95	214.2	500.	6.74	34.04	26.72	140.4	1.368		
398.	8.90	34.07			26.43	168.5	600.	5.55	34.16	26.97	116.8	1.498		
498.	6.77	34.04			26.72	140.9	700.	5.02	34.29	27.14	101.6	1.609		
597.	5.57	34.16			26.96	117.4	800.	4.76	34.40	27.25	91.4	1.706		
795.	4.78	34.40			27.25	91.9	1000.	4.09	34.49	27.40	78.5	1.878		
993.	4.11	34.49			27.35	78.9	1200.	3.53	34.55	27.50	69.4	2.028		
1191.	3.56	34.54			27.49	70.2								
1490.	2.86	34.58			27.58	60.9								

CROMWELL DRY BULB 24.0		6, STATION WET BULB 22.5		19, 20-27N LAT, 150-59W LONG, JULY 22, 1964, WIND SPEED 07, DIR. 07		1000 G.C.T. BAR. 17		WEATHER 01		VIS. 5		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.		
0.	24.39	34.94			23.50	439.6	0.	24.39	34.94	23.50	439.6	0.000		
9.	24.40	34.94			23.50	440.2	10.	24.40	34.94	23.50	440.1	0.044		
30.Δ	24.26	34.96			23.55	435.6	20.	24.35	34.95	23.52	438.6	0.089		
50.Δ	24.00	34.98			23.65	427.6	30.	24.26	34.96	23.55	435.6	0.133		
74.	22.90	35.11			24.07	388.5	50.	24.00	34.98	23.65	427.6	0.220		
98.	22.16	35.21			24.35	362.1	75.	22.86	35.12	24.08	387.2	0.322		
123.	21.54	35.22			24.53	345.8	100.	22.10	35.21	24.37	360.5	0.416		
148.	21.16	35.28			24.68	332.4	150.	21.12	35.28	24.70	331.1	0.591		
172.	20.42	35.25			24.86	316.3	200.	18.69	34.96	25.09	294.8	0.748		
186.	19.64	35.12			24.97	306.4	250.	14.71	34.46	25.64	243.3	0.884		
220.	17.18	34.74			25.29	276.1	300.	11.06	34.13	26.11	197.9	0.995		
246.	15.15	34.51			25.58	248.7	400.	8.07	34.18	26.64	147.5	1.170		
271.	12.56	34.22			25.90	218.4	500.	6.70	34.25	26.89	124.1	1.307		
295.	11.28	34.14			26.08	201.2	600.	6.06	34.34	27.05	110.1	1.425		
395.	8.17	34.18			26.63	149.1	700.	5.49	34.40	27.16	100.0	1.531		
495.	6.74	34.25			26.88	124.9	800.	5.01	34.43	27.25	92.2	1.628		
593.	6.10	34.34			27.04	110.9	1000.	4.26	34.50	27.39	79.8	1.802		
790.	5.05	34.43			27.24	93.0	1200.	3.63	34.55	27.48	70.7	1.955		
988.	4.30	34.50			27.38	80.4								
1187.	3.65	34.54			27.48	71.3								
1486.	3.03	34.58			27.57	63.0								

CROMWELL DRY BULB 24.8		6, STATION WET BULB 23.2		20, 18-58N LAT, 150-59W LONG, JULY 22, 1964, WIND SPEED 07, DIR. 01		1900 G.C.T. BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.		
0.	25.08	34.72			23.13	475.3	0.	25.08	34.72	23.13	475.3	0.000		
10.	25.01	34.72			23.15	473.7	10.	25.01	34.72	23.15	473.7	0.048		
30.Δ	24.95	34.72			23.17	472.7	20.	24.98	34.72	23.16	473.1	0.095		
50.Δ	24.84	34.72			23.20	470.3	30.	24.95	34.72	23.17	472.7	0.143		
77.	22.72	34.71			23.81	412.5	50.	24.84	34.72	23.20	470.3	0.238		
100.	21.95	34.96			24.22	374.6	75.	22.89	34.71	23.76	417.5	0.350		
125.	21.08	35.16			24.61	338.1	100.	21.95	34.96	24.22	374.6	0.450		
152.	19.60	35.02			24.90	311.5	150.	19.73	35.04	24.88	313.2	0.623		
177.	17.91	34.79			25.15	288.0	200.	15.77	34.51	25.44	261.0	0.768		
191.	16.55	34.60			25.33	271.0	250.	11.43	34.13	26.04	203.7	0.885		
225.	13.68	34.30			25.73	233.1	300.	9.42	34.10	26.37	172.5	0.980		
252.	11.27	34.12			26.06	201.6	400.	7.15	34.10	26.71	140.4	1.138		
277.	10.19	34.13			26.26	182.7	500.	6.09	34.20	26.93	120.3	1.269		
302.	9.36	34.10			26.38	171.8	600.	5.36	34.30	27.10	104.7	1.383		
403.	7.10	34.10			26.72	139.7	700.	4.89	34.39	27.23	92.8	1.483		
504.	6.06	34.20			26.93	119.6	800.	4.54	34.47	27.33	84.1	1.572		
604.	5.34	34.30			27.10	104.2	1000.	3.96	34.51	27.42	75.6	1.733		
805.	4.53	34.47			27.33	83.7	1200.	3.44	34.56	27.51	67.5	1.878		
1006.	3.94	34.51			27.42	75.5	1500.	2.85	34.61	27.61	58.7	2.071		
1206.	3.43	34.56			27.52	67.3								
1509.	2.83	34.61			27.61	58.5								

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 6, STATION 21, 17-26N LAT, 151-1W LCNG, JULY 23, 1964, 0500 G.C.T.												
DRY BULB 25.7	WET BULB 23.1	WIND SPEED 07, DIR. 05	BAR. 14	WEATHER 01	VIS. 8	CLOUD TYPE , COVER						
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.88	34.76			22.91	495.9	0.	25.88	34.76	22.91	495.9	0.000
10.	25.44	34.78			23.06	481.9	10.	25.44	34.78	23.06	481.9	0.049
30.Δ	25.32	34.79			23.11	478.4	20.	25.37	34.79	23.09	479.9	0.098
50.	24.28	34.82			23.44	447.1	30.	25.32	34.79	23.11	478.4	0.146
76.	23.01	35.02			23.97	398.1	50.	24.28	34.82	23.44	447.1	0.239
100.	22.50	35.12			24.19	377.8	75.	23.05	35.01	23.95	399.8	0.346
126.	21.58	35.12			24.45	354.2	100.	22.50	35.12	24.19	377.8	0.444
151.	19.96	34.97			24.77	324.1	150.	20.04	34.98	24.75	325.4	0.621
175.	17.74	34.75			25.16	286.9	200.	15.35	34.44	25.49	256.4	0.768
190.	16.23	34.54			25.36	268.3	250.	11.80	34.20	26.03	205.0	0.884
225.	13.43	34.29			25.78	228.9	300.	10.05	34.27	26.40	170.2	0.979
251.	11.74	34.20			26.04	204.1	400.	8.30	34.33	26.72	140.1	1.135
277.	10.52	34.22			26.27	181.7	500.	7.47	34.44	26.93	121.6	1.267
302.	10.02	34.28			26.41	169.4	600.	6.46	34.43	27.07	109.2	1.384
402.	8.27	34.33			26.73	139.7	700.	5.75	34.45	27.17	99.6	1.489
504.	7.44	34.44			26.94	121.0	800.	5.22	34.48	27.26	91.7	1.586
604.	6.42	34.43			27.07	108.8	1000.	4.24	34.50	27.38	79.0	1.759
805.	5.20	34.48			27.26	91.4	1200.	3.66	34.54	27.48	71.6	1.913
1007.	4.21	34.50			27.35	79.5	1500.	2.87	34.58	27.58	61.2	2.115
1208.	3.64	34.54			27.48	71.3						
1510.	2.85	34.58			27.59	60.9						

CROMWELL 6, STATION 22, 15-59N LAT, 150-59W LCNG, JULY 23, 1964, 1400 G.C.T.												
DRY BULB 25.8	WET BULB 22.9	WIND SPEED 14, DIR. 11	BAR. 13	WEATHER 01	VIS. 7	CLOUD TYPE 4, COVER 1						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.03	34.68			22.80	506.1	0.	26.03	34.68	22.80	506.1	0.000
9.	25.97	34.68			22.82	504.7	10.	25.96	34.68	22.82	504.6	0.051
47.	25.63	34.68			22.93	496.1	20.	25.88	34.67	22.84	503.2	0.102
72.	25.36	34.78			23.09	482.0	30.	25.80	34.67	22.87	501.2	0.152
95.	22.88	35.00			23.99	396.7	50.	25.67	34.69	22.92	496.9	0.253
118.	22.24	35.13			24.27	370.8	75.	25.04	34.81	23.20	470.9	0.375
143.	20.64	35.12			24.70	330.2	100.	22.70	35.04	24.07	389.1	0.483
167.	18.70	34.94			25.07	295.7	150.	20.07	35.08	24.82	319.2	0.661
182.	17.69	34.83			25.24	280.1	200.	15.44	34.54	25.54	251.6	0.805
214.	13.58	34.31			25.76	230.1	250.	11.20	34.27	26.19	189.3	0.917
240.	11.52	34.20			26.08	199.9	300.	9.89	34.40	26.52	158.6	1.004
264.	10.91	34.38			26.33	176.4	400.	8.53	34.51	26.83	130.3	1.150
288.	10.14	34.38			26.46	163.7	500.	7.17	34.44	26.97	117.1	1.275
385.	8.76	34.52			26.80	133.0	600.	6.26	34.46	27.12	104.0	1.387
483.	7.37	34.44			26.95	119.6	700.	5.68	34.49	27.21	96.0	1.488
579.	6.41	34.46			27.09	106.1	800.	5.24	34.51	27.28	90.0	1.582
771.	5.38	34.50			27.26	91.8	1000.	4.40	34.53	27.39	79.3	1.753
966.	4.53	34.53			27.38	80.9	1200.	3.72	34.56	27.49	70.9	1.905
1160.	3.86	34.55			27.46	72.9						
1452.	3.06	34.59			27.57	62.4						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.18

CROMWELL 6, STATION 23, 14-28N LAT, 150-59W LCNG, JULY 23, 1964, 2200 G.C.T.												
DRY BULB 26.2	WET BULB 23.1	WIND SPEED 08, DIR. 09	BAR. 15	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 3						
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.48	34.46			22.50	535.4	0.	26.48	34.46	22.50	535.4	0.000
10.	26.25	34.44			22.55	530.4	10.	26.25	34.44	22.55	530.4	0.054
30.Δ	26.14	34.45			22.60	527.2	20.	26.17	34.44	22.58	528.2	0.107
50.Δ	26.04	34.47			22.64	523.5	30.	26.14	34.45	22.60	527.2	0.160
76.	24.98	34.58			23.05	485.5	50.	26.04	34.47	22.64	523.5	0.266
100.	22.85	34.82			23.86	409.0	75.	25.04	34.57	23.03	487.7	0.393
126.	21.62	35.02			24.36	362.4	100.	22.85	34.82	23.86	409.0	0.506
151.	19.52	34.91			24.84	317.4	150.	19.61	34.92	24.82	319.1	0.690
176.	17.39	34.72			25.23	281.0	200.	14.32	34.41	25.68	237.4	0.830
190.	15.56	34.50			25.48	256.5	250.	10.98	34.41	26.34	175.1	0.934
224.	12.02	34.34			26.09	198.3	300.	9.76	34.49	26.61	149.6	1.016
249.	11.02	34.41			26.33	175.8	400.	8.28	34.46	26.83	130.2	1.157
276.	10.08	34.40			26.49	161.0	500.	7.14	34.45	26.99	115.8	1.281
300.	9.76	34.49			26.61	149.6	600.	6.44	34.48	27.11	105.3	1.393
401.	8.27	34.46			26.83	130.1	700.	5.82	34.50	27.20	96.6	1.495
501.	7.13	34.45			26.99	115.7	800.	5.29	34.52	27.28	89.6	1.589
601.	6.43	34.48			27.11	105.2	1000.	4.47	34.54	27.39	79.7	1.760
801.	5.29	34.52			27.28	89.6	1200.	3.84	34.57	27.48	71.5	1.914
1000.	4.47	34.54			27.35	79.7						
1200.	3.84	34.57			27.48	71.5						
1499.	3.03	34.60			27.59	61.6						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 26.5		6, STATION WET BULB 24.0	24, 13- 2N LAT, 151- 4W LONG, JULY 24, 1964, 0700 G.C.T.	WIND SPEED 13, DIR. 07	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 0, COVER 2				
DEPTH	TEMP.	SAL.	OCY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	26.49	34.30			22.37	547.2	0.	26.49	34.30	22.37	547.2	0.000
9.	26.47	34.31			22.39	546.3	10.	26.44	34.31	22.40	545.6	0.055
49.	24.26	34.40			23.13	476.7	20.	26.06	34.30	22.51	535.5	0.109
76.	22.44	34.84			23.99	395.5	30.	25.56	34.31	22.67	520.0	0.163
100.	20.02	34.98			24.76	323.0	50.	24.20	34.42	23.16	474.0	0.263
124.	17.48	34.72			25.20	281.4	75.	22.52	34.82	23.96	398.8	0.373
151.	12.99	34.30			25.87	217.7	100.	20.02	34.98	24.76	323.0	0.464
174.	11.35	34.28			26.17	189.4	150.	13.15	34.31	25.85	219.7	0.600
190.	11.07	34.36			26.28	179.0	200.	11.01	34.44	26.36	172.1	0.699
223.	10.94	34.62			26.51	158.3	250.	10.71	34.70	26.61	149.1	0.780
250.	10.71	34.70			26.61	149.1	300.	10.12	34.68	26.70	141.6	0.853
275.	10.45	34.70			26.66	145.2	400.	8.86	34.61	26.86	128.2	0.989
300.	10.12	34.68			26.70	141.6	500.	7.70	34.55	26.99	116.6	1.113
401.	8.85	34.61			26.86	128.0	600.	6.73	34.52	27.10	106.3	1.226
502.	7.68	34.57			26.99	116.4	700.	6.00	34.52	27.20	97.5	1.329
602.	6.71	34.52			27.10	106.1	800.	5.43	34.54	27.28	89.9	1.423
802.	5.42	34.54			27.28	89.8	1000.	4.52	34.56	27.40	78.9	1.594
1002.	4.51	34.56			27.40	78.8	1200.	3.85	34.58	27.49	70.8	1.746
1202.	3.84	34.58			27.49	70.8	1500.	3.14	34.60	27.57	63.0	1.949
1503.	3.14	34.60			27.57	63.0						

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 26.6		6, STATION WET BULB 24.6	25, 11-30N LAT, 151- 0W LONG, JULY 24, 1964, 1600 G.C.T.	WIND SPEED 17, DIR. 05	BAR. 13	WEATHER 03	VIS. 7	CLOUD TYPE 0, COVER 3				
DEPTH	TEMP.	SAL.	OCY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	27.17	34.07			21.99	584.4	0.	27.17	34.07	21.99	584.4	0.000
9.	27.19	34.06			21.97	586.1	10.	27.19	34.06	21.97	586.3	0.059
30.Δ	27.20	34.06			21.97	587.3	20.	27.21	34.06	21.96	587.3	0.118
50.Δ	27.10	34.08			22.02	583.6	30.	27.20	34.06	21.97	587.3	0.177
75.	21.67	34.50			23.95	399.4	50.	27.10	34.08	22.02	583.6	0.295
99.	13.20	34.38			25.89	214.5	75.	21.67	34.50	23.95	399.4	0.419
125.	11.71	34.52			26.29	177.1	100.	13.05	34.38	25.92	211.6	0.496
151.	11.75	34.71			26.43	164.5	150.	11.74	34.70	26.43	164.7	0.591
175.	11.05	34.66			26.52	156.2	200.	10.65	34.67	26.60	149.2	0.670
190.	10.88	34.68			26.57	152.1	250.	9.82	34.63	26.71	139.2	0.743
223.	10.10	34.63			26.67	143.3	300.	9.25	34.60	26.78	133.2	0.811
250.	9.82	34.63			26.71	139.2	400.	8.24	34.56	26.91	122.2	0.940
276.	9.56	34.62			26.75	136.2	500.	7.20	34.53	27.04	110.8	1.058
300.	9.25	34.60			26.78	133.2	600.	6.33	34.52	27.15	100.8	1.164
401.	8.23	34.56			26.91	122.1	700.	5.65	34.52	27.24	92.9	1.262
502.	7.18	34.53			27.04	110.5	800.	5.11	34.53	27.31	86.6	1.353
602.	6.31	34.52			27.15	100.6	1000.	4.30	34.54	27.41	77.7	1.519
803.	5.10	34.53			27.31	86.4	1200.	3.65	34.56	27.49	70.1	1.669
1004.	4.29	34.54			27.41	77.5						
1194.	3.69	34.56			27.49	70.3						
1413.	3.08	34.58			27.56	63.1						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.4		6, STATION WET BULB 24.0	26, 9-58N LAT, 147-58W LONG, JULY 25, 1964, 1100 G.C.T.	WIND SPEED 12, DIR. 16	BAR. 15	WEATHER 15	VIS. 7	CLOUD TYPE 6, COVER 6				
DEPTH	TEMP.	SAL.	OCY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	27.02	34.06	4.92	0.24	22.03	580.6	0.	27.02	34.06	22.03	580.6	0.000
10.	26.98	34.06	5.02	0.28	22.07	579.8	10.	26.98	34.06	22.04	579.8	0.058
20.Δ	26.88	34.06			22.07	577.1	20.	26.88	34.06	22.07	577.1	0.117
30.Δ	26.80	34.09			22.12	572.9	30.	26.80	34.09	22.12	572.9	0.175
51.	25.51	34.42	5.20	1.16	22.77	511.5	50.	25.61	34.40	22.73	515.7	0.284
76.	21.57	34.59	5.38	0.58	24.05	390.3	75.	21.76	34.59	23.99	395.5	0.399
102.	16.14	34.42	4.04	1.07	25.29	272.3	100.	16.54	34.43	25.21	280.3	0.484
126.	13.09	34.62	0.88	1.88	26.10	195.5	150.	11.78	34.70	26.41	166.0	0.597
153.	11.70	34.70	0.90	2.30	26.43	164.3	200.	10.89	34.72	26.60	149.7	0.676
176.	11.22	34.72	0.66	2.12	26.54	154.8	250.	10.26	34.72	26.71	139.9	0.749
192.	11.00	34.72	0.32	2.41	26.58	151.3	300.	9.82	34.70	26.77	135.1	0.819
226.	10.56	34.72	0.56	2.34	26.66	144.5	400.	8.93	34.65	26.88	126.1	0.950
252.	10.24	34.72	0.48	2.48	26.71	139.6	500.	7.72	34.57	27.00	115.7	1.072
278.	9.99	34.70	0.63	2.38	26.74	137.5	600.	6.68	34.53	27.11	104.8	1.184
304.	9.79	34.70	0.67	2.14	26.77	134.7	700.	5.83	34.52	27.22	95.3	1.285
404.	8.89	34.65	0.24	2.47	26.88	125.8	800.	5.15	34.53	27.31	87.1	1.377
507.	7.63	34.56	0.35	2.47	27.00	115.0	1000.	4.18	34.56	27.44	74.8	1.541
607.	6.61	34.53	0.58	2.38	27.12	104.1	1200.	3.56	34.59	27.53	66.7	1.684
809.	5.10	34.53	0.90	2.79	27.31	86.5	1500.	2.81	34.61	27.61	58.2	1.874
1011.	4.14	34.56	1.34	2.90	27.44	74.3						
1212.	3.53	34.59	1.70	2.57	27.53	66.3						
1515.	2.78	34.61	1.90	2.52	27.62	57.9						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROWNELL 6, STATION 27, 11-25N LAT, 147-58W LONG, JULY 25, 1964, 2000 G.C.T.												
DRY BULB	24.9	WET BULB	24.0	WIND SPEED 12, DIR. 06 BAR. 16			WEATHER 20		VIS. 4	CLOUD TYPE 9, COVER 9		
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.90	33.88	4.85	0.25	21.93	589.9	0.	26.90	33.88	21.93	589.9	0.000
9.	26.87	33.89	5.08	0.46	21.95	588.6	10.	26.87	33.90	21.95	588.2	0.059
30.Δ	26.60	34.14			22.22	563.3	20.	26.60	33.99	22.04	579.6	0.118
50.Δ	25.50	34.51			22.84	504.7	30.	26.60	34.14	22.22	563.3	0.176
48.	25.54	34.51	5.13	0.70	22.83	505.8	50.	25.50	34.51	22.84	504.7	0.283
72.	21.18	34.61	5.34	0.30	24.17	378.5	75.	20.53	34.59	24.33	363.6	0.393
95.	16.49	34.43	3.51	1.07	25.22	279.1	100.	15.70	34.41	25.38	263.6	0.472
117.	13.58	34.38	2.01	1.31	25.81	222.4	150.	11.57	34.49	26.30	177.0	0.583
142.	11.84	34.44	1.21	2.03	26.20	185.7	200.	10.78	34.64	26.55	153.6	0.666
163.	11.32	34.58	0.41	1.72	26.41	166.6	250.	10.13	34.62	26.65	144.9	0.741
176.	11.19	34.62	0.34		26.46	161.6	300.	9.66	34.62	26.73	138.2	0.813
206.	10.68	34.64	0.26	2.49	26.57	152.0	400.	8.39	34.55	26.88	125.5	0.946
230.	10.46	34.64	0.19	2.03	26.61	148.7	500.	7.31	34.52	27.02	113.4	1.066
253.	10.08	34.62	0.18		26.66	144.3	600.	6.44	34.52	27.14	102.4	1.175
278.	9.90	34.63	0.16		26.70	141.1	700.	5.69	34.52	27.23	93.5	1.274
365.	8.82	34.57	0.25		26.83	129.8	800.	5.08	34.53	27.31	86.4	1.365
454.	7.76	34.52	0.42		26.95	118.9	1000.	4.22	34.56	27.43	75.5	1.529
544.	6.92	34.52	0.42	2.26	27.07	108.2	1200.	3.52	34.59	27.53	66.4	1.673
723.	5.53	34.52	0.65	2.87	27.25	91.8						
904.	4.59	34.54	0.94	3.08	27.38	80.3						
1083.	3.94	34.57	1.30	2.80	27.47	71.7						
1285.	3.28	34.60	1.66	2.65	27.56	63.1						

CROWNELL 6, STATION 28, 12-59N LAT, 148- 6W LONG, JULY 26, 1964, 0600 G.C.T.												
DRY BULB	26.3	WET BULB	23.0	WIND SPEED 19, DIR. 05 BAR. 14			WEATHER 01		VIS. 8	CLOUD TYPE 4, COVER 3		
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.74	34.14	4.96	0.27	22.17	566.3	0.	26.74	34.14	22.17	566.3	0.000
10.	26.73	34.14	5.05	0.24	22.18	566.4	10.	26.73	34.14	22.18	566.4	0.057
20.Δ	26.73	34.14			22.18	566.8	20.	26.73	34.14	22.18	566.8	0.114
30.Δ	25.30	34.50			22.85	498.7	30.	25.30	34.50	22.85	498.7	0.168
51.	25.04	34.54	5.26	0.24	23.00	489.1	50.	25.02	34.55	23.02	487.9	0.267
78.	23.44	34.63	5.49	0.26	23.55	438.2	75.	23.68	34.62	23.47	445.5	0.385
103.	21.01	34.70	4.92	0.28	24.28	368.7	100.	21.34	34.70	24.19	377.6	0.488
126.	18.30	34.66	4.34	0.77	24.96	305.0	150.	13.30	34.30	25.81	223.3	0.640
153.	12.74	34.27	2.74	1.64	25.90	215.2	200.	11.47	34.66	26.45	163.9	0.737
178.	12.04	34.59	0.76	2.88	26.28	179.2	250.	10.29	34.63	26.64	148.8	0.816
193.	11.73	34.67	0.83	2.45	26.40	168.1	300.	9.85	34.65	26.72	139.6	0.888
227.	10.52	34.60	0.58	2.30	26.57	152.6	400.	8.68	34.59	26.87	126.7	1.022
253.	10.28	34.64	0.72	2.41	26.64	146.2	500.	7.67	34.54	26.99	116.6	1.145
280.	10.09	34.66	0.69	2.22	26.65	142.1	600.	6.75	34.52	27.10	106.6	1.258
305.	9.78	34.64	0.73	2.30	26.73	138.9	700.	5.94	34.52	27.20	97.0	1.361
406.	8.62	34.59	0.67	2.44	26.88	126.0	800.	5.26	34.53	27.29	88.5	1.454
509.	7.58	34.54	0.91	2.43	27.00	115.7	1000.	4.31	34.56	27.42	76.4	1.621
609.	6.67	34.52	0.79	2.52	27.11	105.7	1200.	3.70	34.58	27.50	69.1	1.769
811.	5.19	34.53	0.64	2.57	27.30	87.6	1500.	2.96	34.60	27.59	60.8	1.966
1014.	4.26	34.56	0.94	2.65	27.43	75.8						
1216.	3.66	34.58	1.47	2.81	27.51	68.7						
1520.	2.93	34.60	1.96	2.69	27.59	60.5						

TEMPERATURE ERROR TERM AT 150. METERS IS 0.12

CROWNELL 6, STATION 29, 14-41N LAT, 148- 7W LONG, JULY 26, 1964, 1600 G.C.T.												
DRY BULB	25.2	WET BULB	21.5	WIND SPEED 16, DIR. 05 BAR. 14			WEATHER 02		VIS. 7	CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.64	34.58	5.14	0.27	22.85	501.8	0.	25.64	34.58	22.85	501.8	0.000
9.	25.66	34.57	5.05		22.84	503.4	10.	25.66	34.57	22.84	503.5	0.051
30.Δ	25.65	34.57			22.84	504.0	20.	25.66	34.57	22.83	504.1	0.101
50.Δ	25.60	34.57			22.85	503.3	30.	25.65	34.57	22.84	504.0	0.152
73.	25.04	34.56	5.24	0.23	23.02	488.5	50.	25.60	34.57	22.85	503.3	0.254
98.	22.87	34.64	5.39	0.23	23.72	422.5	75.	24.88	34.56	23.07	483.9	0.378
121.	21.51	34.82	5.22		24.24	373.8	100.	22.78	34.66	23.76	418.7	0.492
146.	17.44	34.62	4.29	0.76	25.14	288.4	150.	16.88	34.57	25.23	279.2	0.687
170.	14.54	34.39	3.67	1.10	25.62	242.5	200.	12.39	34.39	26.06	200.7	0.788
183.	13.52	34.40	1.86	1.73	25.84	221.5	250.	10.70	34.49	26.45	164.4	0.880
217.	11.54	34.40	1.59		26.23	185.0	300.	9.70	34.50	26.63	147.9	0.959
243.	10.82	34.48	1.13	2.25	26.42	167.0	400.	9.03	34.60	26.82	131.8	1.100
268.	10.41	34.50	0.99		26.51	159.0	500.	7.85	34.55	26.97	118.5	1.227
291.	9.81	34.49	0.83	2.53	26.61	150.2	600.	6.97	34.52	27.06	109.9	1.342
390.	9.15	34.60	0.33	2.70	26.80	133.3	700.	6.17	34.51	27.16	101.1	1.449
488.	7.97	34.56	0.40	2.44	26.95	119.7	800.	5.50	34.51	27.25	92.9	1.547
588.	7.07	34.52	0.42	2.67	27.05	111.0	1000.	4.54	34.54	27.39	80.5	1.722
783.	5.60	34.51	1.08		27.24	94.2	1200.	3.83	34.56	27.48	71.8	1.876
982.	4.61	34.54	0.99	2.77	27.38	81.3						
1179.	3.93	34.56	1.26	2.83	27.47	73.2						
1476.	3.17	34.59	1.99	3.11	27.56	63.9						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 30, 15-59N LAT, 147-58W LONG, JULY 27, 1964, 0000 G.C.T.													
DRY BULB 25.6		WET BULB 21.5		WIND SPEED 18, DIR. 05		BAR. 14		WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
C.	25.94	34.52	5.02	0.31	22.71	515.0	C.	25.94	34.52	22.71	515.0	0.000	
9.	25.93	34.52	5.07	0.22	22.71	515.0	10.	25.92	34.52	22.72	514.9	0.052	
71.	25.11	34.57	5.11	0.27	23.00	489.8	20.	25.86	34.53	22.74	512.8	0.104	
93.	24.66	34.58	5.20	0.34	23.15	476.9	30.	25.76	34.53	22.78	509.9	0.155	
117.	22.32	34.56	5.34	0.45	23.81	414.0	50.	25.50	34.55	22.87	501.7	0.257	
141.	19.52	34.70	4.91	0.43	24.68	332.2	75.	25.09	34.57	23.01	489.2	0.382	
164.	16.06	34.46	3.31	0.98	25.34	269.5	100.	24.10	34.57	23.31	462.1	0.502	
177.	14.17	34.35	3.11	1.44	25.67	238.0	150.	18.20	34.62	24.95	306.1	0.695	
209.	11.73	34.20	3.43	1.56	26.04	202.9	200.	12.18	34.22	25.97	209.7	0.825	
235.	10.82	34.30	2.11	1.62	26.28	180.1	250.	10.39	34.33	26.38	171.2	0.921	
258.	10.21	34.34	1.68	2.28	26.42	167.2	300.	9.65	34.47	26.62	149.0	1.002	
281.	9.90	34.44	1.18	2.29	26.55	155.2	400.	8.40	34.47	26.82	131.3	1.143	
395.	8.46	34.47	0.54	2.59	26.81	132.2	500.	7.21	34.45	26.98	116.8	1.269	
494.	7.27	34.45	0.53	3.07	26.97	117.6	600.	6.34	34.46	27.10	105.5	1.381	
593.	6.40	34.46	0.51	2.88	27.10	106.1	700.	5.72	34.48	27.20	97.2	1.483	
623.*	6.17	34.46	0.47	2.41	27.13	103.4	800.	5.26	34.50	27.27	90.5	1.578	
789.	5.31	34.50	0.76	2.46	27.26	91.2	1000.	4.48	34.52	27.37	81.4	1.752	
990.	4.45	34.52	1.20	2.69	27.38	80.9	1200.	3.60	34.57	27.51	68.6	1.904	
1188.	3.81	34.56	1.26	2.69	27.48	71.8							
1200.**	3.60**	34.57**			27.51	68.6							

CROMWELL 6, STATION 31, 17-31N LAT, 147-58W LONG, JULY 27, 1964, 1000 G.C.T.													
DRY BULB 24.5		WET BULB 21.2		WIND SPEED 20, DIR. 05		BAR. 16		WEATHER 03		VIS.		CLOUD TYPE , COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
C.	25.24	34.62	5.03	0.45	23.00	487.2	C.	25.24	34.62	23.00	487.2	0.000	
11.	25.27	34.62	5.05	0.30	22.95	488.5	10.	25.27	34.62	22.99	488.4	0.049	
50.Δ	25.00	34.64			23.09	480.7	20.	25.32	34.62	22.98	490.5	0.098	
76.	23.71	34.72	5.32	0.16	23.54	439.2	30.	25.30	34.62	22.98	490.1	0.148	
101.	22.48	34.96	5.26	0.17	24.07	388.9	50.	25.00	34.64	23.09	480.7	0.246	
125.	21.80	35.07	5.01	0.26	24.35	363.6	75.	23.77	34.71	23.52	441.1	0.362	
151.	20.78	35.09	5.10	0.26	24.64	336.3	100.	22.52	34.95	24.05	390.7	0.466	
176.	18.90	34.88	4.55	0.50	24.97	305.2	150.	20.83	35.09	24.63	337.4	0.650	
190.	17.71	34.73	4.34	0.65	25.16	288.1	200.	16.47	34.59	25.34	270.5	0.803	
224.	13.57	34.29	3.57	1.21	25.75	231.6	250.	11.93	34.21	26.01	206.9	0.924	
252.	11.84	34.21	3.06	1.62	26.03	205.2	300.	9.83	34.24	26.41	169.3	1.018	
277.	10.53	34.21	2.96	1.58	26.26	182.6	400.	8.74	34.46	26.75	137.5	1.173	
301.	9.81	34.24	2.56	2.04	26.41	168.8	500.	7.73	34.49	26.93	121.5	1.304	
401.	8.74	34.46	0.57	2.50	26.76	137.4	600.	6.63	34.46	27.07	109.4	1.420	
502.	7.71	34.49	0.25	2.81	26.94	121.2	700.	5.89	34.47	27.17	100.1	1.526	
602.	6.61	34.46	0.42	2.66	27.07	109.2	800.	5.36	34.49	27.25	92.8	1.624	
803.	5.35	34.49	0.73	2.94	27.25	92.6	1000.	4.47	34.51	27.37	82.0	1.801	
1004.	4.46	34.51	0.98	2.74	27.37	81.9	1200.	3.79	34.54	27.46	73.2	1.958	
1204.	3.78	34.54	1.18	2.83	27.46	73.0							
1438.	3.04	34.58	1.52	2.69	27.57	62.8							

TEMPERATURE ERROR TEMP AT 200. METERS IS 0.14

CROMWELL 6, STATION 32, 19- 2N LAT, 148- W LONG, JULY 27, 1964, 1800 G.C.T.													
DRY BULB 25.2		WET BULB 22.2		WIND SPEED 20, DIR. 05		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.	
C.	25.26	34.67	5.12	0.22	23.03	484.1	C.	25.26	34.67	23.03	484.1	0.000	
11.	25.28	34.67	5.15	0.24	23.03	485.2	10.	25.28	34.67	23.03	485.1	0.049	
30.Δ	25.28	34.68			23.04	485.2	20.	25.29	34.67	23.03	485.3	0.098	
50.Δ	25.24	34.68			23.05	484.8	30.	25.28	34.68	23.04	485.2	0.147	
77.	24.70	34.69	5.15	0.17	23.22	469.5	50.	25.24	34.68	23.05	484.8	0.244	
102.	22.99	34.97	5.41	0.27	23.93	402.1	75.	24.77	34.68	23.19	472.0	0.365	
126.	22.33	35.06	5.36	0.23	24.19	378.5	100.	23.13	34.95	23.88	407.6	0.476	
151.	21.45	35.16	5.25	0.19	24.51	348.8	150.	21.50	35.16	24.50	350.1	0.666	
176.	19.52	35.00	4.75	0.48	24.91	311.8	200.	17.76	34.76	25.16	287.6	0.827	
191.	18.54	34.87	4.64	0.35	25.06	297.7	250.	12.83	34.23	25.85	222.6	0.956	
225.	15.30	34.44	4.06	1.02	25.49	256.4	300.	10.44	34.18	26.26	183.7	1.058	
251.	12.74	34.22	3.96	1.11	25.86	221.3	400.	7.87	34.22	26.70	141.9	1.223	
277.	11.28	34.20	3.75	1.37	26.12	196.4	500.	6.50	34.31	26.96	117.4	1.353	
301.	10.41	34.18	3.43	1.71	26.26	183.3	600.	5.69	34.38	27.12	102.8	1.445	
402.	7.83	34.22	1.91	2.13	26.71	141.2	700.	5.16	34.43	27.23	93.3	1.564	
502.	6.48	34.31	0.88	2.77	26.97	117.0	800.	4.77	34.47	27.30	86.7	1.655	
603.	5.67	34.38	0.68	2.77	27.13	102.4	1000.	4.13	34.52	27.41	77.1	1.820	
804.	4.76	34.47	0.88		27.30	86.5	1200.	3.57	34.54	27.49	70.5	1.970	
1004.	4.12	34.52	1.33	2.75	27.41	76.9	1500.	2.87	34.57	27.58	61.9	2.171	
1205.	3.56	34.54	1.42	2.57	27.49	70.3							
1506.	2.86	34.57	1.74	2.78	27.58	61.8							

▲FROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 33, 20-30N LAT, 147-58W LONG, JULY 28, 1964, C300 G.C.T.												
DRY BULB 25.0		WET BULB 21.1	WIND SPEED 23, DIR. C6		BAR. 16	WEATHER 03		VIS. 7	CLOUD TYPE 6, COVER 8			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.81	34.85	5.04	0.09	23.31	458.2	0.	24.81	34.85	23.31	458.1	0.000
10.	24.82	34.85	5.11	0.18	23.30	458.8	10.	24.82	34.85	23.30	458.8	0.046
20.Δ	24.82	34.85			23.30	459.2	20.	24.82	34.85	23.30	459.2	0.092
30.Δ	24.82	34.85			23.30	459.6	30.	24.82	34.85	23.30	459.6	0.139
49.	24.15	35.10	5.34		23.69	423.1	50.	24.08	35.10	23.72	420.7	0.227
73.	22.38	35.14	5.49	0.23	24.24	372.1	75.	22.30	35.14	24.26	369.9	0.327
98.	21.70	35.18	5.34	0.20	24.46	352.0	100.	21.66	35.19	24.47	350.5	0.418
123.	21.11	35.23	5.24	0.27	24.66	333.8	150.	19.98	35.10	24.86	314.9	0.585
148.	20.06	35.11	4.26	0.29	24.85	316.4	200.	17.47	34.78	25.25	279.0	0.735
173.	18.91	34.98	4.18	0.52	25.05	298.1	250.	13.33	34.29	25.80	227.5	0.863
186.	18.20	34.88	4.70	0.57	25.15	288.7	300.	10.58	34.14	26.20	189.3	0.968
219.	16.26	34.63	4.73	0.55	25.42	263.3	400.	7.86	34.08	26.59	152.0	1.140
246.	13.73	34.33	4.87	0.68	25.74	232.5	500.	6.19	34.13	26.86	126.6	1.281
271.	11.57	34.15	4.74		26.03	205.2	600.	5.71	34.31	27.06	108.3	1.399
296.	10.71	34.14	4.73	1.17	26.18	191.3	700.	5.21	34.40	27.19	96.4	1.503
396.	7.95	34.08	3.18	2.09	26.58	153.3	800.	4.76	34.44	27.28	88.4	1.596
495.	6.23	34.12	1.72	1.90	26.85	127.6	1000.	4.14	34.52	27.41	77.1	1.764
594.	5.74	34.30	0.72	3.23	27.05	109.2	1200.	3.57	34.55	27.50	69.3	1.912
794.	4.78	34.44	0.81		27.28	88.9						
994.	4.16	34.52	1.04	2.56	27.41	77.3						
1194.	3.59	34.54	1.21	2.81	27.48	70.6						
1459.	2.86	34.58	1.63	2.95	27.58	60.8						

CROMWELL 6, STATION 34, 22-1N LAT, 147-57W LONG, JULY 28, 1964, 1200 G.C.T.												
DRY BULB 23.5		WET BULB 19.8	WIND SPEED 20, DIR. 07		BAR. 17	WEATHER 02		VIS. 6	CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.09	34.96	5.23	0.36	23.61	429.6	0.	24.09	34.96	23.61	429.6	0.000
10.Δ	24.13	34.96	5.29		23.59	431.1	10.	24.13	34.96	23.59	431.1	0.043
20.Δ	24.12	34.96			23.60	431.2	20.	24.12	34.96	23.60	431.2	0.087
30.Δ	24.10	34.96			23.60	431.1	30.	24.10	34.96	23.60	431.1	0.130
50.	22.32	35.06	5.61	0.18	24.19	375.4	50.	22.32	35.06	24.19	375.4	0.211
75.	21.58	35.12	5.50	0.20	24.45	352.3	75.	21.58	35.12	24.45	352.3	0.303
99.	21.20	35.18	5.52	0.30	24.60	338.8	100.	21.18	35.18	24.60	338.2	0.390
123.	20.81	35.24	5.51	0.22	24.75	325.2	150.	20.28	35.24	24.89	312.8	0.554
148.	20.32	35.24	5.38	0.24	24.88	313.6	200.	18.70	35.00	25.11	292.8	0.707
172.	19.84	35.19	5.22	0.29	24.97	305.9	250.	14.54	34.40	25.63	243.8	0.842
187.	19.49	35.13	5.22	0.26	25.01	302.0	300.	11.26	34.09	26.04	204.6	0.955
220.	17.10	34.74	5.05	0.57	25.31	274.2	400.	8.16	34.11	26.57	154.5	1.136
245.	15.04	34.46	5.02	0.64	25.57	250.0	500.	6.76	34.20	26.85	128.7	1.279
271.	12.62	34.20	4.92	0.82	25.87	221.0	600.	5.63	34.27	27.04	110.1	1.400
295.	11.47	34.10	5.00	1.02	26.01	207.6	700.	5.07	34.36	27.18	97.6	1.505
394.	8.27	34.10	3.07	2.16	26.55	156.5	800.	4.77	34.44	27.28	89.0	1.599
493.	6.86	34.20	1.29	2.48	26.83	130.3	1000.	4.09	34.49	27.40	78.4	1.749
590.	5.70	34.26	0.83	2.66	27.03	111.6	1200.	3.54	34.53	27.48	70.7	1.920
786.	4.82	34.43	0.84	2.89	27.27	90.0						
982.	4.14	34.49	1.14	2.55	27.39	79.2						
1178.	3.61	34.52	1.27	2.86	27.47	72.2						
1474.	2.97	34.57	1.60	2.73	27.57	62.9						

CROMWELL 6, STATION 35, 23-31N LAT, 147-57W LONG, JULY 28, 1964, 2100 G.C.T.												
DRY BULB 24.9		WET BULB 19.4	WIND SPEED 18, DIR. C6		BAR. 21	WEATHER 01		VIS. 7	CLOUD TYPE 8, COVER 1			
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.18	35.04	5.19	0.26	23.64	426.4	0.	24.18	35.04	23.64	426.4	0.000
10.Δ	24.21	35.04	5.21	0.19	23.63	427.6	10.	24.21	35.04	23.63	427.6	0.043
30.Δ	24.18	35.04			23.64	427.6	20.	24.27	35.03	23.60	430.4	0.086
50.	23.09	35.20	5.60	0.14	24.08	386.3	30.	24.18	35.04	23.64	427.6	0.129
75.	21.86	35.24	5.50	0.19	24.46	351.0	50.	23.09	35.20	24.08	386.3	0.211
102.	21.13	35.30	5.43	0.48	24.71	328.4	75.	21.86	35.24	24.46	351.0	0.304
125.	20.77	35.28	5.39	0.13	24.75	321.4	100.	21.17	35.30	24.69	329.6	0.390
151.	19.62	35.13	5.35	0.33	24.98	304.0	150.	19.67	35.14	24.97	304.7	0.550
175.	18.46	34.94	5.03	0.23	25.13	290.2	200.	17.31	34.76	25.27	277.0	0.696
190.	17.85	34.84	4.99	0.31	25.21	283.4	250.	14.20	34.37	25.68	239.2	0.827
223.	15.90	34.57	4.87	0.50	25.46	259.8	300.	11.77	34.14	25.99	210.1	0.940
250.	14.20	34.37	4.89	0.72	25.68	239.2	400.	8.47	34.04	26.47	164.1	1.129
275.	12.70	34.22	4.92	0.84	25.87	221.1	500.	6.45	34.06	26.77	135.2	1.280
301.	11.74	34.14	4.86	0.87	25.99	209.7	600.	5.29	34.13	26.97	116.1	1.407
400.	8.47	34.04	3.98	1.72	26.47	164.1	700.	4.68	34.24	27.13	101.3	1.516
501.	6.44	34.06	2.19	1.98	26.78	135.0	800.	4.36	34.36	27.26	89.8	1.613
601.	5.28	34.13	1.17	2.21	26.98	116.0	1000.	3.88	34.48	27.41	77.0	1.782
801.	4.36	34.36	0.73	2.68	27.26	89.7	1200.	3.44	34.52	27.48	70.3	1.931
1001.	3.88	34.48	1.09	2.68	27.41	76.9						
1201.	3.44	34.52	1.28	2.18	27.48	70.3						
1499.	2.79	34.57	1.73	2.42	27.58	60.9						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 36, 25- ON LAT, 148- ON LCNG, JULY 29, 1964, 0600 G.C.T.												
DRY BULB 23.2 WET BULB 19.5 WIND SPEED 24, DIR. 08 BAR. 21 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 8												
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.10	35.13	5.20	0.32	23.73	417.6	0.	24.10	35.13	23.73	417.6	0.000
9.	24.13	35.13	5.25	0.20	23.72	418.8	10.	24.13	35.13	23.72	418.9	0.042
30. ^Δ	24.13	35.13			23.72	419.7	20.	24.14	35.13	23.72	419.5	0.084
50. ^Δ	24.08	35.13			23.74	419.0	30.	24.13	35.13	23.72	419.7	0.127
76.	21.64	35.25	5.45	0.12	24.53	344.5	50.	24.08	35.13	23.74	419.0	0.211
99.	21.14	35.32	5.52	0.18	24.72	327.2	75.	21.74	35.24	24.50	347.5	0.308
123.	20.75	35.30	5.52	0.62	24.81	319.4	100.	21.13	35.32	24.72	326.8	0.393
149.	19.82	35.16	5.28	0.26	24.95	306.7	150.	19.77	35.15	24.96	306.1	0.552
173.	18.65	34.99	5.18	0.22	25.12	291.1	200.	17.24	34.76	25.30	275.0	0.699
188.	17.88	34.86	5.08	0.56	25.21	282.6	250.	13.98	34.35	25.71	235.8	0.827
221.	16.01	34.60	5.07	0.45	25.46	260.0	300.	11.25	34.12	26.06	202.5	0.938
247.	14.22	34.38	5.11	0.70	25.68	238.8	400.	8.97	34.06	26.41	170.7	1.126
272.	12.36	34.20	4.99	0.91	25.92	216.1	500.	6.80	34.02	26.70	142.6	1.264
298.	11.31	34.12	4.96	1.25	26.05	203.3	600.	5.44	34.09	26.92	121.1	1.418
395.	9.09	34.06	4.73	1.42	26.39	172.2	700.	4.69	34.21	27.10	104.1	1.531
495.	6.89	34.02	2.88	2.09	26.68	144.0	800.	4.30	34.33	27.24	91.3	1.630
593.	5.51	34.08	1.50	2.43	26.91	122.5	1000.	3.87	34.47	27.40	77.9	1.801
790.	4.33	34.32	0.66	2.72	27.23	92.2	1200.	3.41	34.54	27.50	68.6	1.950
987.	3.90	34.46	1.03	2.80	27.39	78.5						
1185.	3.42	34.52	1.35	2.64	27.48	70.0						
1484.	2.80	34.58	1.80	2.61	27.59	60.2						

CROMWELL 6, STATION 37, 26-30N LAT, 147-58W LCNG, JULY 29, 1964, 1600 G.C.T.												
DRY BULB 22.1 WET BULB 19.8 WIND SPEED 12, DIR. 08 BAR. 13 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 5												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.22	35.41	5.31	0.08	24.20	372.9	0.	23.22	35.41	24.20	372.8	0.000
10.	23.26	35.41	5.03	0.09	24.19	374.3	10.	23.26	35.41	24.19	374.3	0.038
51.	22.38	35.28	5.42	0.17	24.34	361.2	20.	23.27	35.39	24.17	376.4	0.075
76.	20.30	35.18	5.72	0.32	24.84	314.8	30.	23.13	35.36	24.19	375.0	0.113
100.	19.69	35.16	5.70	0.11	24.98	301.7	50.	22.43	35.28	24.33	362.2	0.188
124.	19.24	35.14	5.63	0.46	25.09	292.9	75.	20.38	35.18	24.82	316.6	0.273
151.	18.92	35.10	5.57	0.98	25.14	288.9	100.	19.69	35.16	24.98	301.7	0.351
174.	18.24	34.96	5.49	0.15	25.20	283.4	150.	18.93	35.10	25.14	289.0	0.500
189.	17.09	34.75	5.42	0.24	25.32	272.3	200.	16.43	34.65	25.40	265.0	0.639
223.	15.24	34.51	5.06	0.51	25.56	249.9	250.	13.78	34.35	25.75	231.9	0.765
248.	13.87	34.36	5.02	0.44	25.74	233.2	300.	11.96	34.22	26.01	208.1	0.876
274.	12.79	34.28	5.03	0.76	25.90	218.5	400.	9.75	34.12	26.32	179.0	1.071
299.	11.99	34.22	5.15	0.88	26.01	208.4	500.	7.33	34.02	26.62	150.3	1.237
397.	9.83	34.12	4.94	1.30	26.31	179.9	600.	5.73	34.07	26.88	126.0	1.377
498.	7.37	34.02	3.41	1.91	26.62	150.9	700.	4.89	34.17	27.05	109.0	1.495
598.	5.75	34.07	1.82	2.29	26.87	126.4	800.	4.45	34.28	27.19	96.5	1.599
796.	4.47	34.28	0.53	2.77	27.19	96.9	1000.	3.89	34.44	27.38	79.8	1.778
995.	3.90	34.44	0.80	3.66	27.37	80.1	1200.	3.43	34.53	27.49	69.3	1.929
1194.	3.48	34.52	1.21	2.80	27.48	70.7						
1453.	2.88	34.58	1.52	2.58	27.58	61.0						

CROMWELL 6, STATION 38, 25- ON LAT, 151- ON LCNG, JULY 30, 1964, 0800 G.C.T.												
DRY BULB 23.3 WET BULB 20.8 WIND SPEED 17, DIR. 06 BAR. 22 WEATHER 01 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.	24.49	35.08			23.58	432.3	0.	24.49	35.08	23.58	432.3	0.000
10.	24.49	35.08			23.58	432.7	10.	24.49	35.08	23.58	432.7	0.044
30. ^Δ	24.20	35.10			23.68	423.8	20.	24.47	35.08	23.58	432.7	0.087
51.	22.14	35.28			24.41	354.7	30.	24.20	35.10	23.68	423.8	0.130
76.	21.21	35.31			24.49	328.9	50.	22.25	35.27	24.37	358.2	0.209
101.	20.46	35.18			24.80	319.8	75.	21.23	35.31	24.49	329.2	0.296
125.	20.24	35.27			24.92	308.5	100.	20.48	35.18	24.79	320.0	0.377
151.	19.60	35.18			25.02	299.9	150.	19.44	35.19	25.02	300.2	0.534
177.	18.23	34.94			25.19	284.7	200.	16.75	34.69	25.36	268.9	0.677
191.	17.43	34.80			25.28	276.6	250.	13.61	34.31	25.75	231.9	0.803
224.	14.93	34.44			25.57	248.5	300.	11.62	34.18	26.04	204.6	0.913
252.	13.52	34.30			25.76	230.7	400.	8.45	34.04	26.47	163.7	1.099
276.	12.27	34.20			25.94	214.5	500.	6.61	34.02	26.72	140.5	1.253
301.	11.60	34.18			26.05	204.2	600.	5.30	34.12	26.96	117.0	1.383
401.	8.42	34.04			26.48	163.4	700.	4.68	34.24	27.13	101.2	1.493
501.	6.60	34.02			26.72	140.1	800.	4.41	34.36	27.26	90.2	1.590
600.	5.30	34.12			26.96	117.0	1000.	3.96	34.49	27.41	77.1	1.759
799.	4.41	34.36			27.26	90.3	1200.	3.48	34.54	27.49	69.6	1.908
1000.	3.96	34.49			27.41	77.1						
1199.	3.48	34.52			27.48	70.8						
1428.	2.93	34.55			27.55	63.6						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA		
CROMWELL 6, STATION 39, 25- ON LAT, 154- 1N LONG, JULY 31, 1964, 0600 G.C.T.												
DRY BULB 24.0	WET BULB 21.0		WIND SPEED 20, DIR. C7		BAR. 2C		WEATHER 03		VIS. 6	CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.18	34.92	5.16	0.24	23.25	463.8	0.	25.18	34.92	23.25	463.8	0.000
10.	25.20	34.92	5.21		23.24	464.8	10.	25.20	34.92	23.24	464.8	0.047
52.	24.35	35.12	5.37	0.46	23.65	427.5	20.	25.18	34.96	23.28	461.7	0.093
77.	22.60	35.14	5.37	0.15	24.17	378.2	30.	25.05	35.01	23.35	454.9	0.140
102.	21.86	35.23	5.37		24.45	352.8	50.	24.44	35.11	23.61	430.7	0.229
126.	20.94	35.20	5.06	0.18	24.68	331.6	75.	22.74	35.14	24.13	382.1	0.331
152.	19.48	35.03	4.80	0.70	24.94	307.8	100.	21.90	35.22	24.43	354.3	0.424
177.	18.15	34.88	4.68	0.49	25.16	287.2	150.	19.60	35.05	24.92	309.5	0.591
192.	17.34	34.78	4.80	0.60	25.28	276.0	200.	16.96	34.73	25.34	270.9	0.737
227.	15.68	34.58	4.84	0.49	25.52	254.4	250.	14.42	34.44	25.68	238.7	0.866
253.	14.25	34.42	4.84	0.81	25.71	236.7	300.	12.08	34.21	25.98	210.8	0.979
279.	12.97	34.29	4.84	0.89	25.87	221.3	400.	9.26	34.08	26.38	173.6	1.173
303.	11.96	34.20	4.89	0.85	26.00	209.4	500.	7.02	34.01	26.66	146.6	1.335
405.	9.16	34.08	4.44	1.25	26.39	172.1	600.	5.62	34.07	26.89	124.6	1.472
506.	6.91	34.01	3.40		26.67	145.2	700.	4.75	34.18	27.08	106.7	1.589
607.	5.55	34.08	1.61	2.22	26.9C	123.2	800.	4.22	34.30	27.23	92.6	1.689
809.	4.19	34.31	0.66	2.52	27.24	91.5	1000.	3.78	34.47	27.41	76.1	1.860
1009.	3.77	34.48	1.16	2.85	27.42	75.7	1200.	3.32	34.53	27.50	68.2	2.006
1211.	3.29	34.53	1.49	3.22	27.5C	67.9						
1466.	2.77	34.57	1.75	2.28	27.58	60.5						

CROMWELL 6, STATION 40, 25- ON LAT, 157- ON LONG, JULY 31, 1964, 2100 G.C.T.												
DRY BULB 25.5	WET BULB 22.1		WIND SPEED 14, DIR. C7		BAR. 2C		WEATHER 03		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.	24.79	35.10			23.5C	439.5	0.	24.79	35.10	23.50	439.5	0.000
10.	24.72	35.10			23.52	437.9	10.	24.72	35.10	23.52	437.9	0.044
30.Δ	24.60	35.10			23.56	435.2	20.	24.66	35.10	23.54	436.6	0.088
50.	24.46	35.11			23.61	431.3	30.	24.60	35.10	23.56	435.2	0.132
76.	23.06	35.12			24.03	392.3	50.	24.46	35.11	23.61	431.3	0.219
100.	22.19	35.19			24.33	364.4	75.	23.12	35.12	24.01	394.0	0.323
125.	21.10	35.18			24.62	337.2	100.	22.19	35.19	24.33	364.4	0.419
151.	20.45	35.16			24.78	322.8	150.	20.48	35.16	24.78	323.3	0.592
175.	19.25	35.02			24.99	303.6	200.	17.89	34.82	25.18	286.3	0.746
19C.	18.47	34.90			25.1C	293.8	250.	14.84	34.49	25.63	244.0	0.880
225.	16.37	34.63			25.4C	265.9	300.	12.21	34.25	25.98	210.5	0.994
251.	14.78	34.48			25.64	243.2	400.	9.57	34.13	26.36	175.0	1.189
277.	13.51	34.34			25.8C	228.2	500.	7.26	34.07	26.67	145.6	1.350
302.	12.10	34.24			26.0C	209.0	600.	5.89	34.13	26.90	124.1	1.487
401.	9.56	34.13			26.37	174.8	700.	4.96	34.22	27.08	106.6	1.603
503.	7.20	34.07			26.66	144.8	800.	4.34	34.32	27.23	92.7	1.704
605.	5.84	34.13			26.91	123.2	1000.	3.72	34.45	27.40	77.4	1.876
804.	4.32	34.32			27.23	92.3	1200.	3.35	34.52	27.49	69.3	2.025
1005.	3.71	34.45			27.4C	77.2	1500.	2.75	34.56	27.58	61.2	2.223
1205.	3.34	34.52			27.49	69.2						
1507.	2.74	34.56			27.58	61.1						

CROMWELL 6, STATION 41, 23-30N LAT, 157- 1N LONG, AUG. 1, 1964, 0600 G.C.T.												
DRY BULB 25.0	WET BULB 21.2		WIND SPEED 18, DIR. 07		BAR. 18		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.	25.62	34.90			23.1C	478.1	0.	25.62	34.90	23.10	478.1	0.000
10.	25.63	34.90			23.09	478.8	10.	25.63	34.90	23.09	478.8	0.048
30.Δ	25.60	34.90			23.1C	478.8	20.	25.63	34.90	23.09	479.3	0.096
50.Δ	25.38	34.91			23.18	472.4	30.	25.60	34.90	23.10	478.8	0.145
75.	24.43	35.00			23.53	439.4	50.	25.38	34.91	23.18	472.4	0.241
98.	23.44	35.14			23.93	402.2	75.	24.43	35.00	23.53	439.4	0.355
123.	22.63	35.20			24.21	376.5	100.	23.38	35.15	23.96	399.9	0.461
137.	22.02	35.18			24.37	362.0	150.	21.31	35.21	24.59	341.3	0.648
148.	21.48	35.24			24.56	343.7	200.	18.00	34.84	25.17	287.0	0.806
161.	20.34	35.03			24.71	329.7	250.	14.93	34.50	25.62	245.1	0.940
172.	19.76	35.03			24.87	315.4	300.	12.28	34.22	25.94	214.3	1.056
187.	18.85	34.94			25.03	300.0	400.	8.94	34.02	26.38	172.9	1.251
207.	12.84	34.26			25.87	221.2	500.	6.92	34.02	26.68	144.7	1.412
445.	7.97	34.02			26.55	158.8	600.	5.61	34.08	26.90	123.8	1.547
590.	5.71	34.07			26.88	125.8	700.	4.81	34.19	27.08	106.6	1.664
787.	4.40	34.30			27.21	94.5	800.	4.35	34.31	27.23	93.1	1.765
985.	3.86	34.46			27.39	78.0	1000.	3.82	34.47	27.40	77.2	1.937
1182.	3.36	34.51			27.48	70.0	1200.	3.33	34.53	27.50	67.9	2.084
1480.	2.79	34.56			27.57	61.5						

TEMPERATURE ERROR TERM AT 400. METERS IS 0.11

AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL		6, STATION	42, 22-	ON LAT, 156-58M LONG, AUG.		1, 1964, 1500 G.C.T.						
DRY BULB 23.3		WET BULB 21.9		WIND SPEED 20, DIR. 09		BAR. 16		WEATHER 62	VIS. 5	CLOUD TYPE 0, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.25	35.10			23.36	452.9	0.	25.25	35.10	23.36	452.9	0.000
10.	25.26	35.10			23.36	453.6	10.	25.26	35.10	23.36	453.6	0.046
30.Δ	25.18	35.10			23.38	452.0	20.	25.24	35.10	23.36	453.5	0.091
50.Δ	24.90	35.11			23.48	444.0	30.	25.18	35.10	23.38	452.0	0.137
75.	23.19	35.17			24.03	392.2	50.	24.90	35.11	23.48	444.0	0.227
100.	21.83	35.16			24.41	356.9	75.	23.19	35.17	24.03	392.2	0.333
124.	20.83	35.13			24.66	333.7	100.	21.83	35.16	24.41	356.9	0.427
148.	19.44	35.00			24.93	308.8	150.	19.37	35.00	24.94	307.4	0.594
172.	18.46	34.92			25.12	291.5	200.	16.29	34.67	25.45	260.5	0.737
186.	17.44	34.79			25.27	277.4	250.	13.78	34.45	25.83	224.5	0.860
221.	14.78*	34.53			25.68	238.7	300.	12.21	34.30	26.03	206.5	0.968
246.	13.85	34.46			25.82	225.4	400.	9.01	34.09	26.42	169.1	1.158
271.	13.39	34.42			25.88	219.8	500.	6.51	34.03	26.74	138.3	1.313
295.	12.40	34.32			26.00	208.6	600.	5.50	34.15	26.97	117.1	1.442
391.	9.29	34.10			26.39	172.4	700.	4.96	34.28	27.14	101.6	1.552
488.	6.70	34.02			26.71	141.3	800.	4.63	34.39	27.26	90.6	1.650
585.	5.60	34.13			26.94	119.8	1000.	3.96	34.48	27.40	77.8	1.820
780.	4.71	34.38			27.24	92.3	1200.	3.41	34.55	27.51	68.0	1.968
974.	4.04	34.47			27.38	79.4						
1166.	3.48	34.54			27.49	69.1						
1448.	2.92	34.58			27.58	61.4						

ΔFROM BI DATA
*INTERPOLATED DATA

MS* 1583

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