

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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FISH AND WILDLIFE SERVICE

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CONTENTS

	Page
Abstract _____	1
Introduction _____	1
Observations _____	2
Biological _____	2
Meteorological _____	2
Current _____	2
Preparation of data _____	2
Presentation of data _____	3
Acknowledgments _____	3
Literature cited _____	4

FIGURES

1. Track chart for <u>Townsend Cromwell</u> 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 _____	5
2. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 4 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	6
3. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 4 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	7
4. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 4 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	8
5. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 4 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	9
6. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> 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 _____	10
7. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 4 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	11
8. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	12
9. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel _____	13

	Page
10. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	14
11. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	15
12. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 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_____	16
13. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 5 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	17
14. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 6 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	18
15. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 6 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	19
16. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 6 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	20
17. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 6 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	21
18. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> 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_____	22
19. Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 6 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel_____	23
20. Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for <u>Townsend Cromwell</u> cruise 4_____	24
21. Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for <u>Townsend Cromwell</u> cruise 5_____	25
22. Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for <u>Townsend Cromwell</u> cruise 6_____	26
23. Surface salinity distribution ($^{\circ}$ /oo) from bucket salinity samples at each BT cast for <u>Townsend Cromwell</u> cruise 4_____	27
24. Surface salinity distribution ($^{\circ}$ /oo) from bucket salinity samples at each BT cast for <u>Townsend Cromwell</u> cruise 5_____	28
25. Surface salinity distribution ($^{\circ}$ /oo) from bucket salinity samples at each BT cast for <u>Townsend Cromwell</u> cruise 6_____	29

	Page
26. Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 4 _____	30
27. Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 5 _____	31
28. Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 6 _____	32

TABLES

1. Original and derived oceanographic data for <u>Townsend Cromwell</u> cruise 4 _____	34
2. Original and derived oceanographic data for <u>Townsend Cromwell</u> cruise 5 _____	49
3. Original and derived oceanographic data for <u>Townsend Cromwell</u> cruise 6 _____	64

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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.

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 $\pm 0.02^\circ\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer 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

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

^{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 programing.

^{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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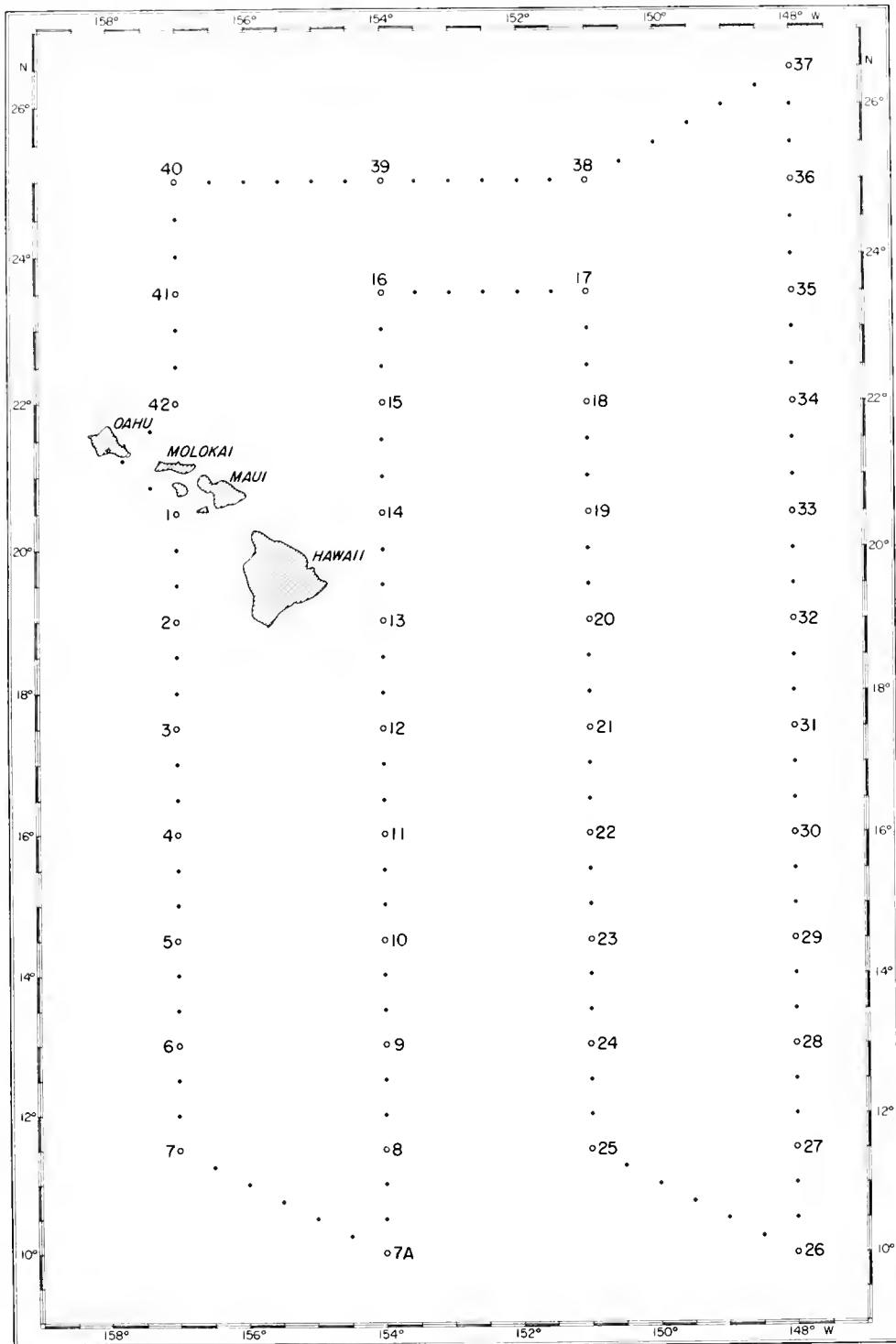


Figure 1.--Track chart for Townsend Cromwell cruises 4, 5, and 6. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

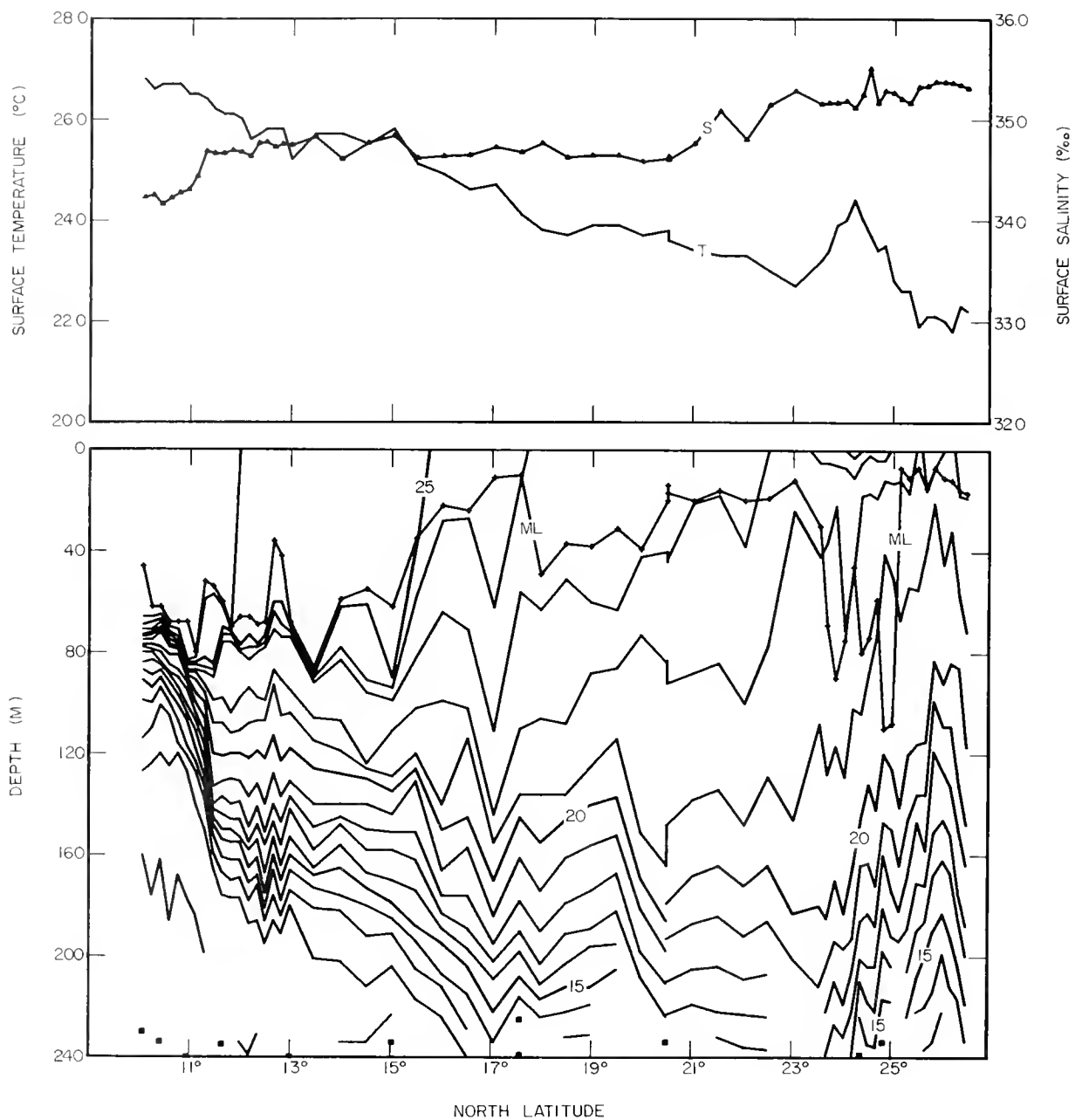


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

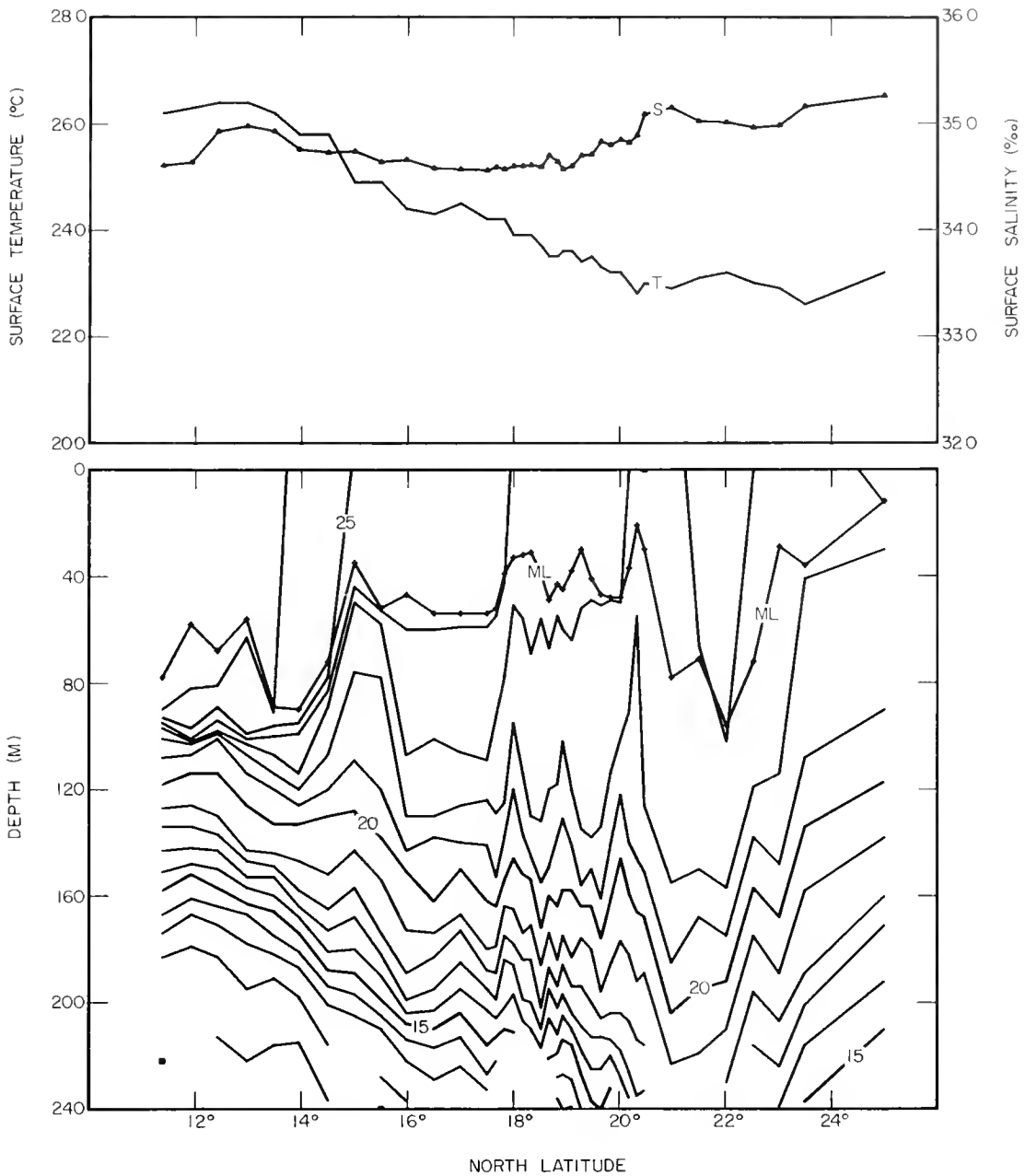


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

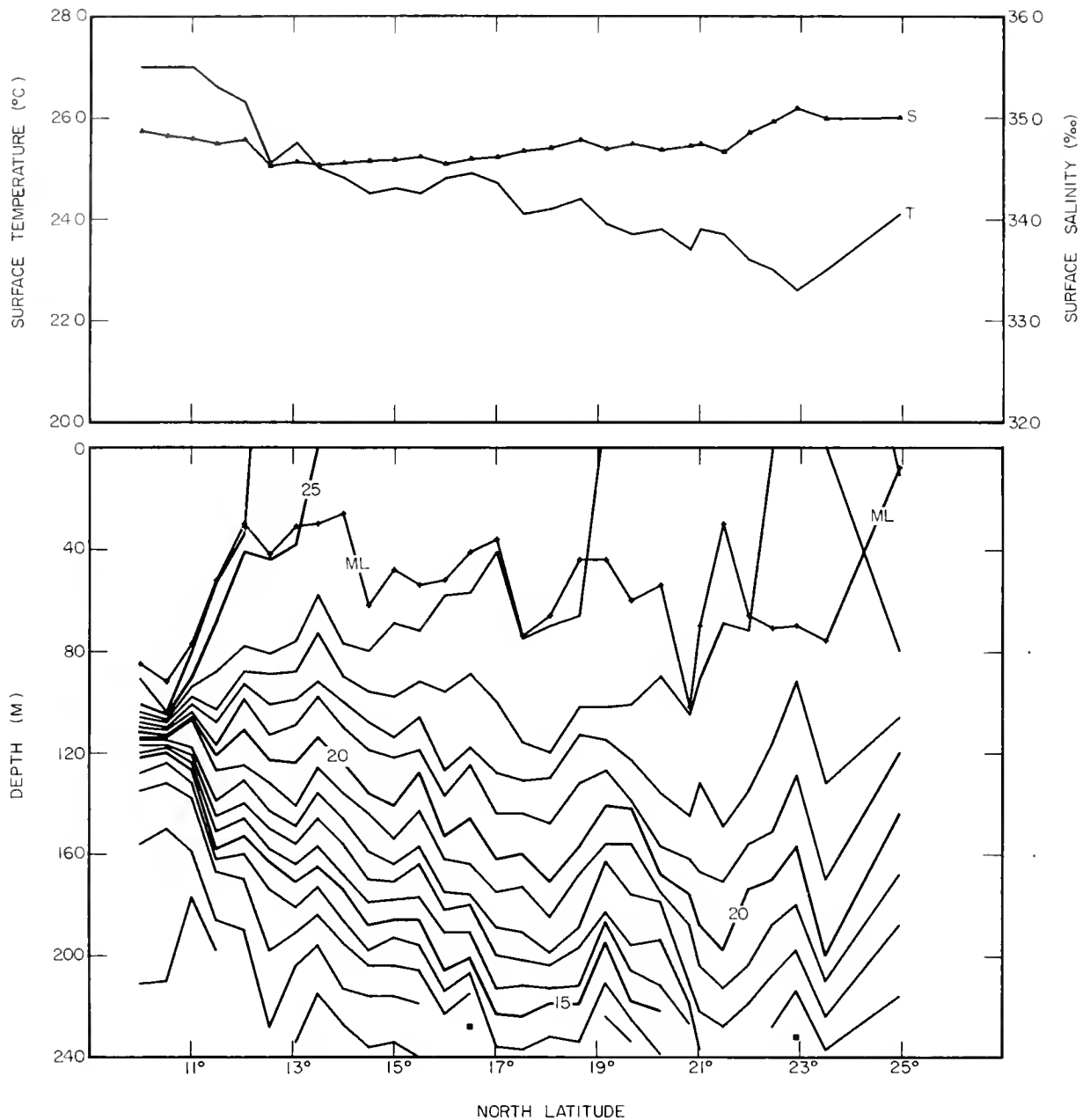


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

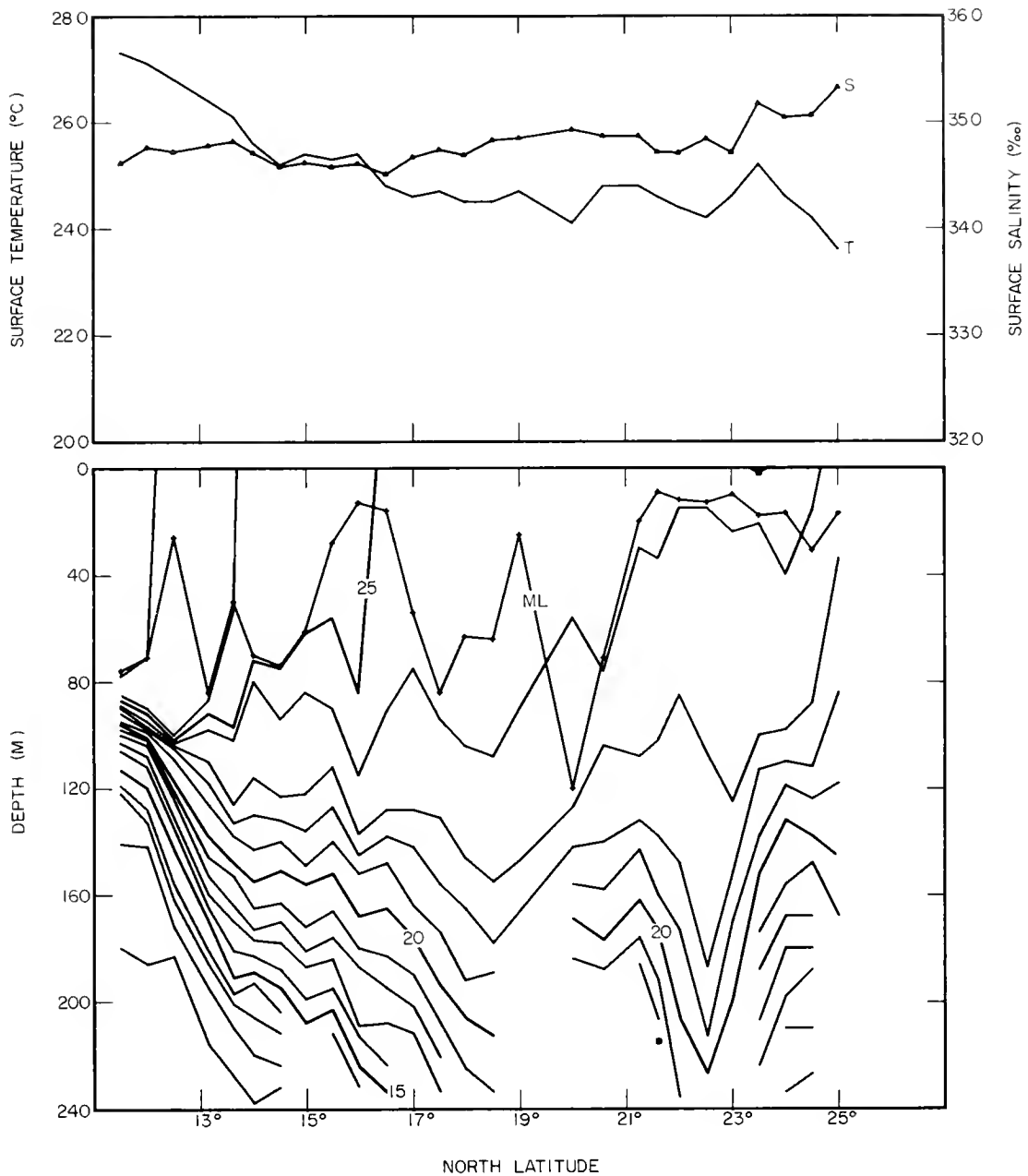


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 157 $^{\circ}$ W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

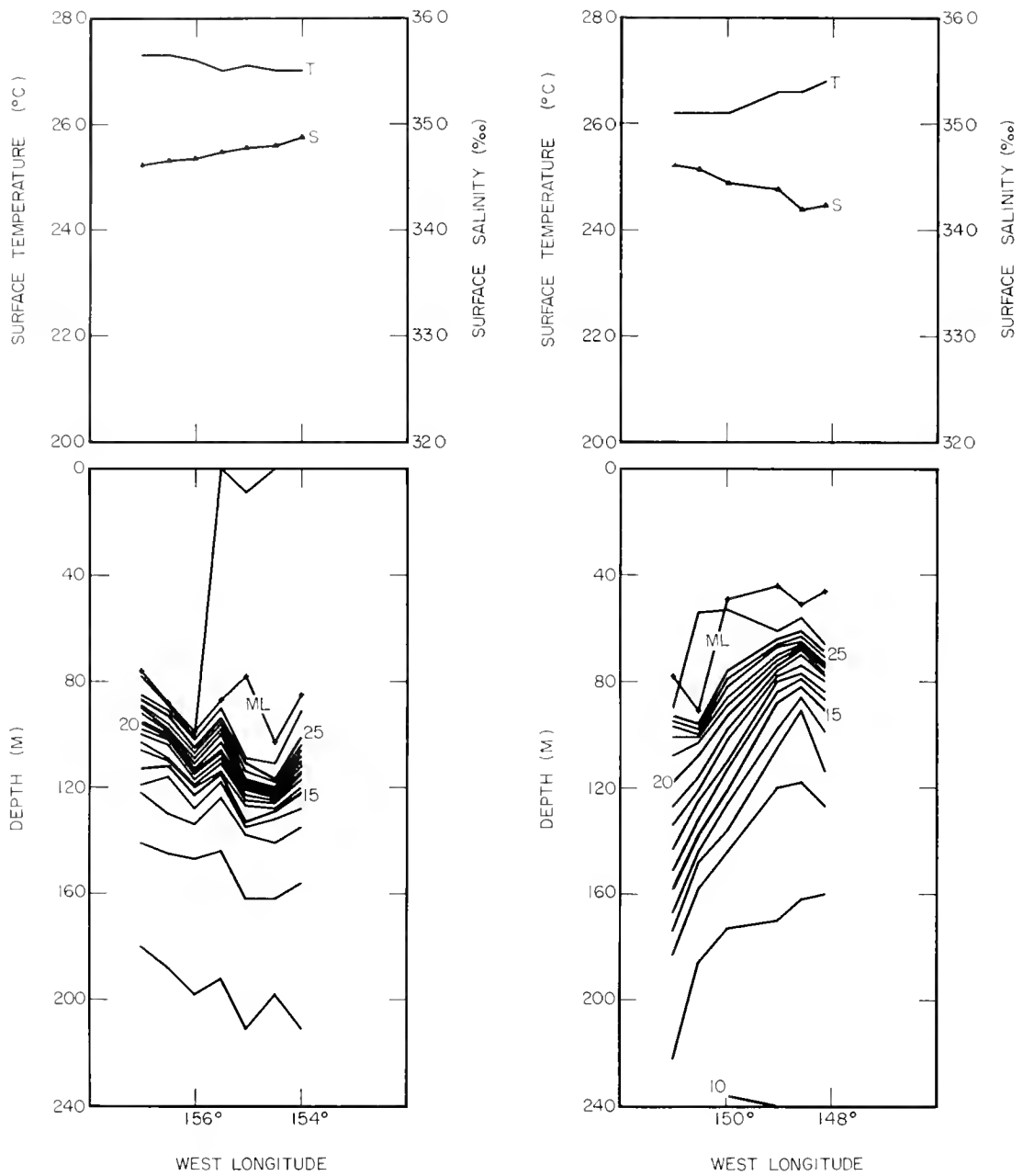


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower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

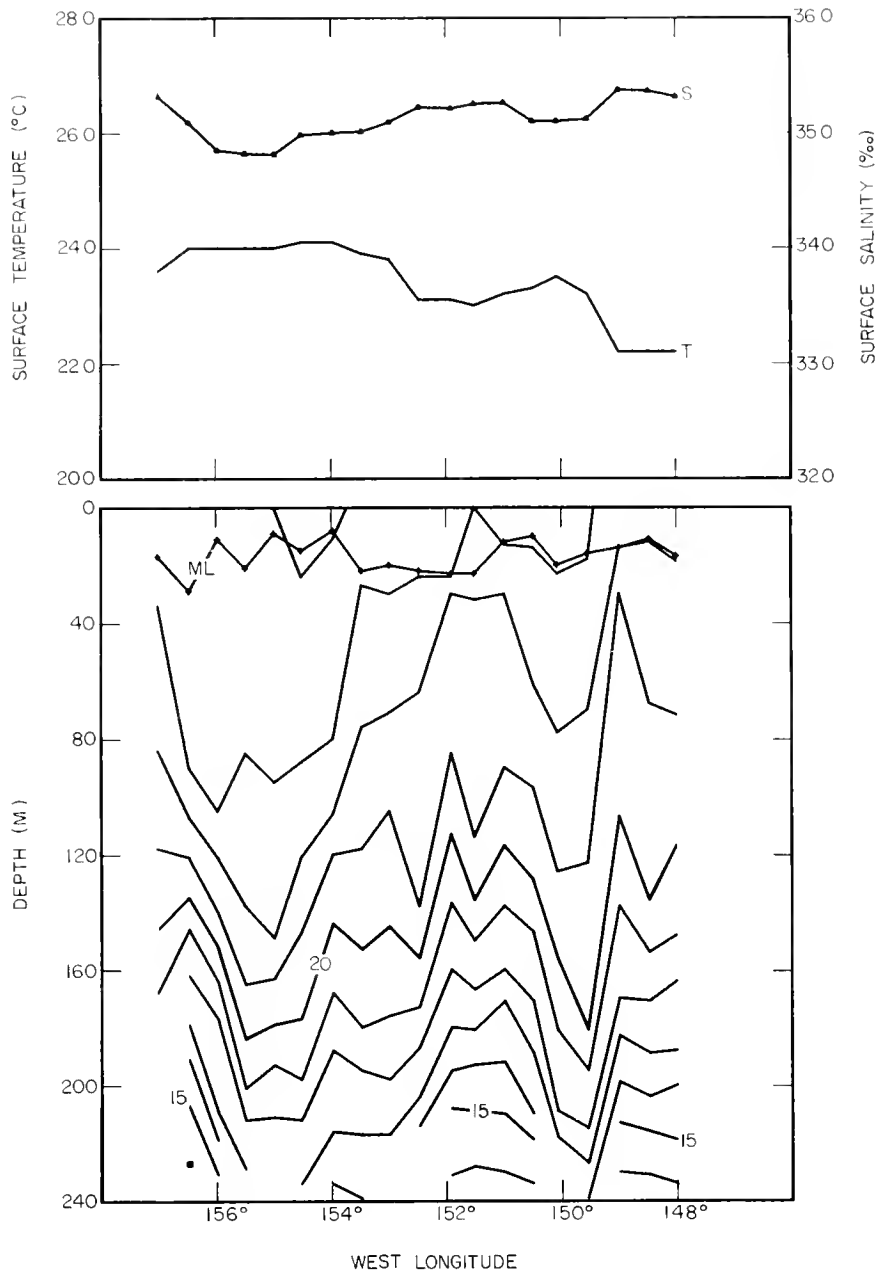


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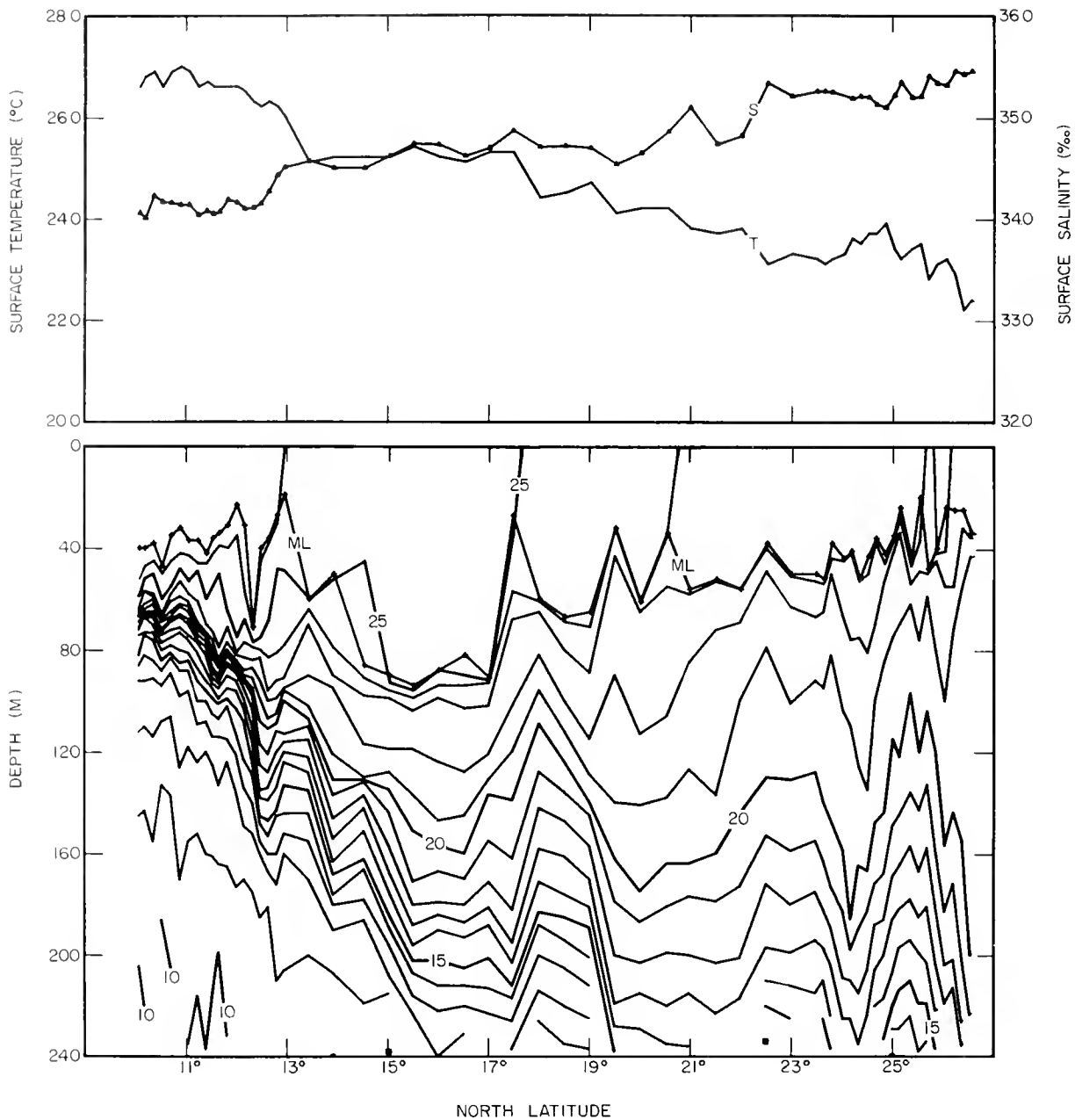


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

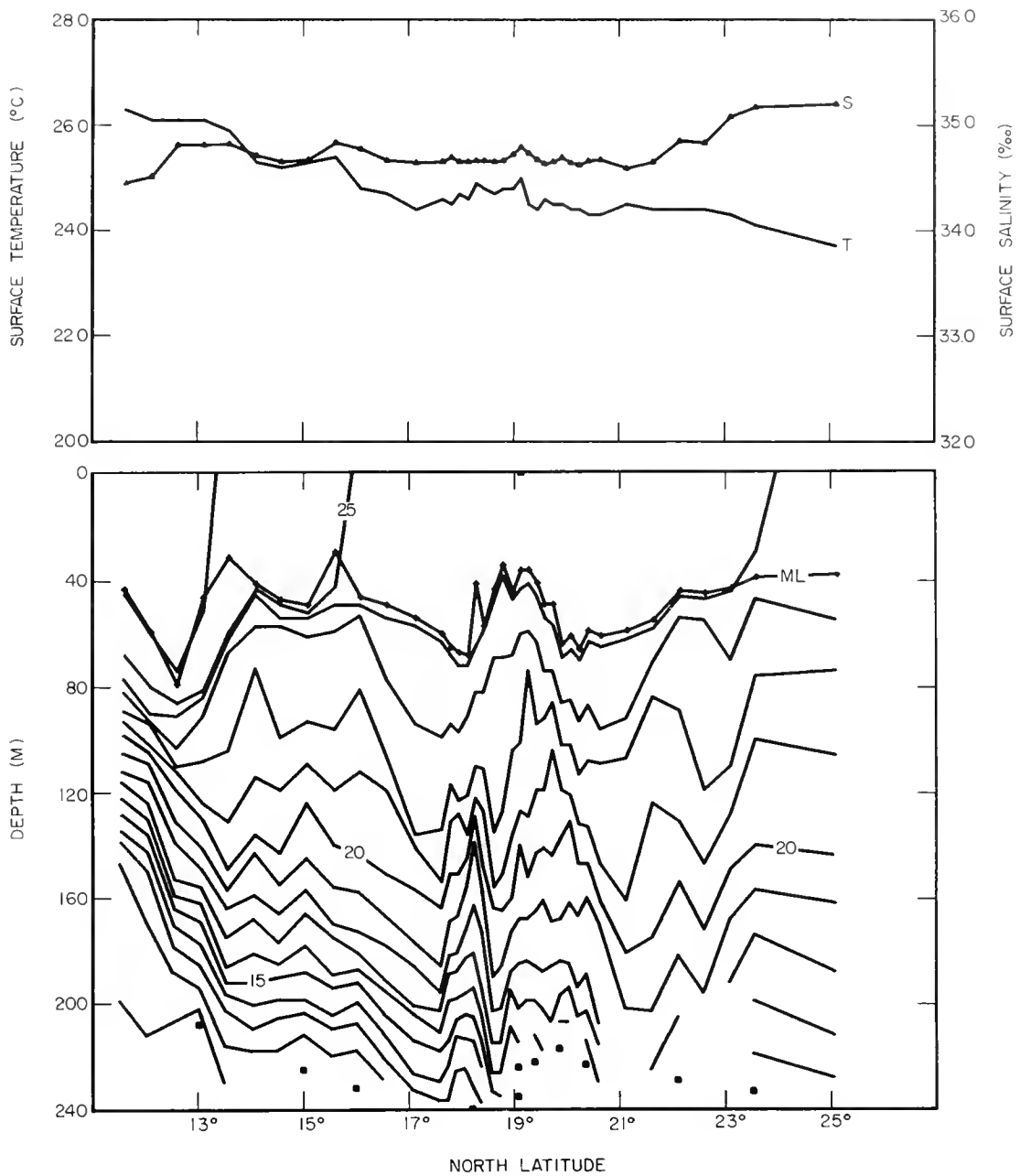


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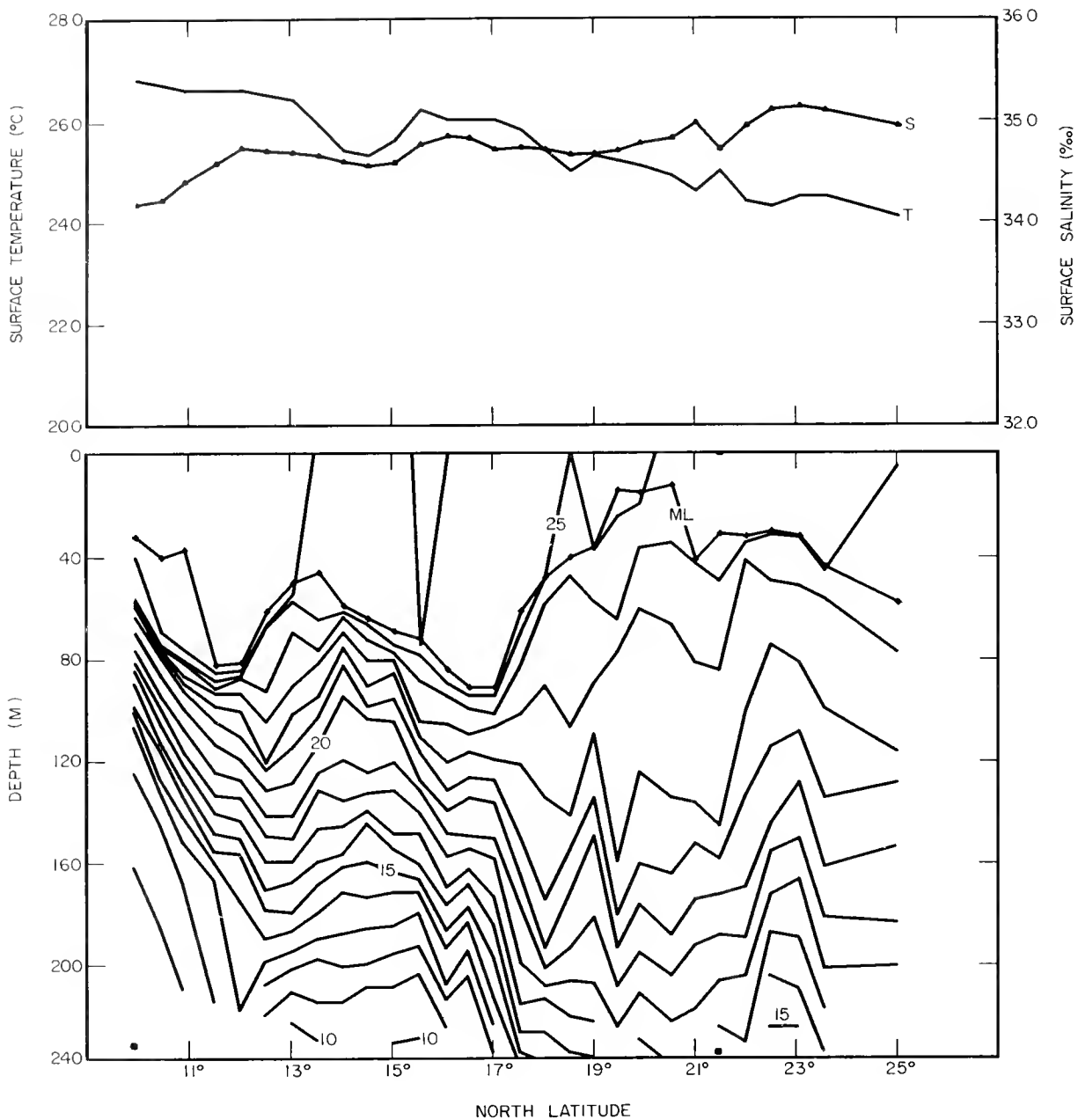


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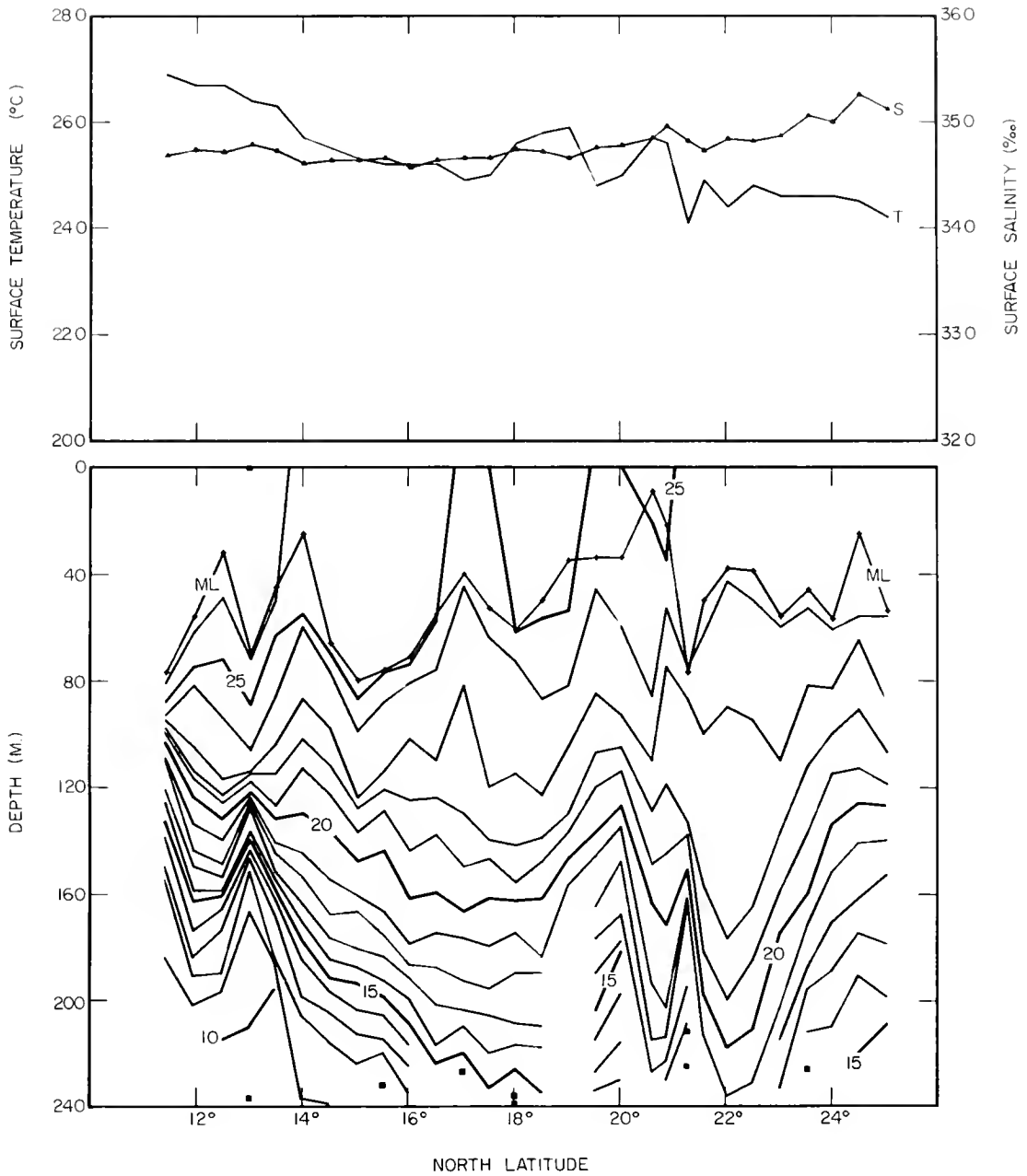


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

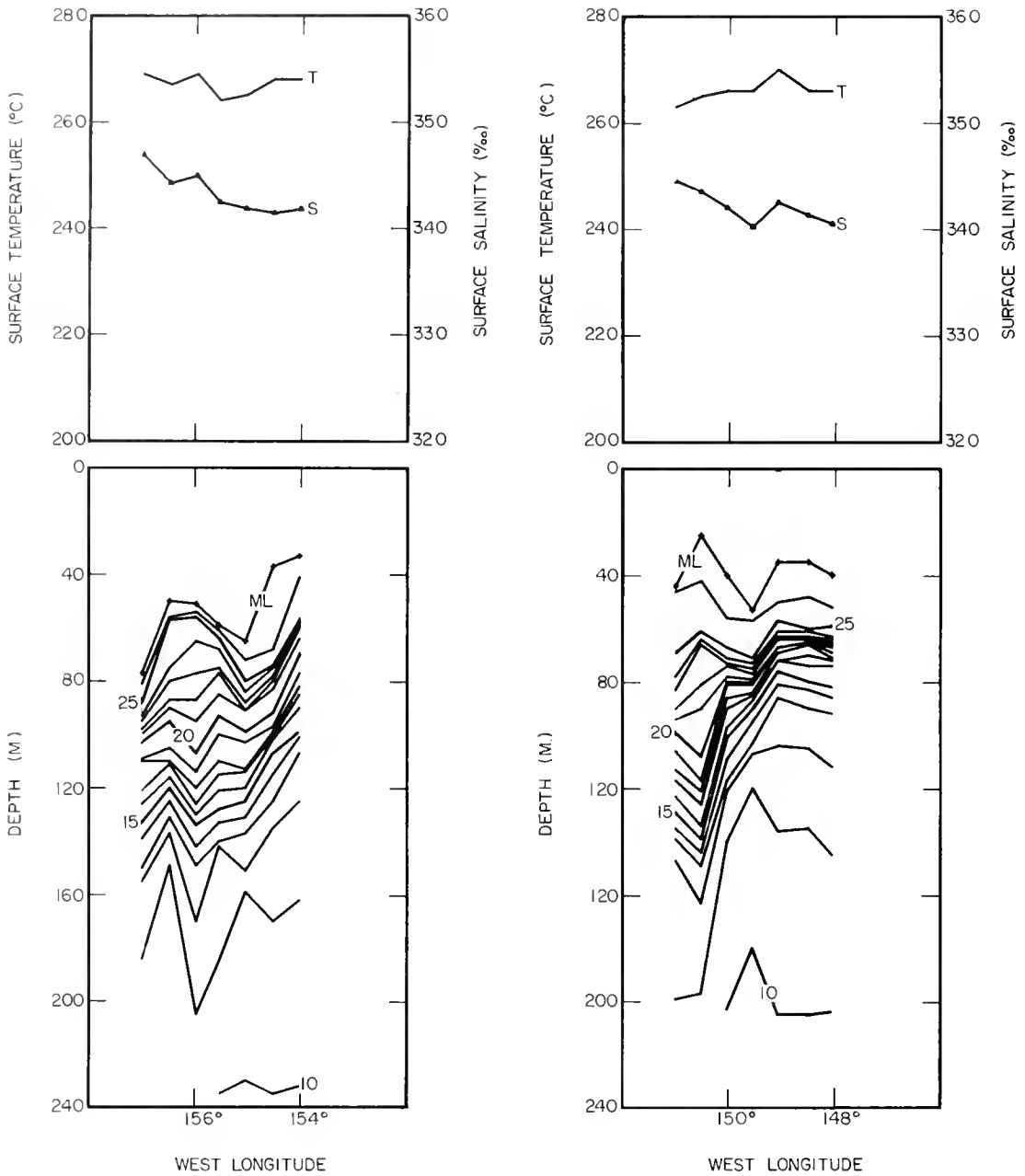


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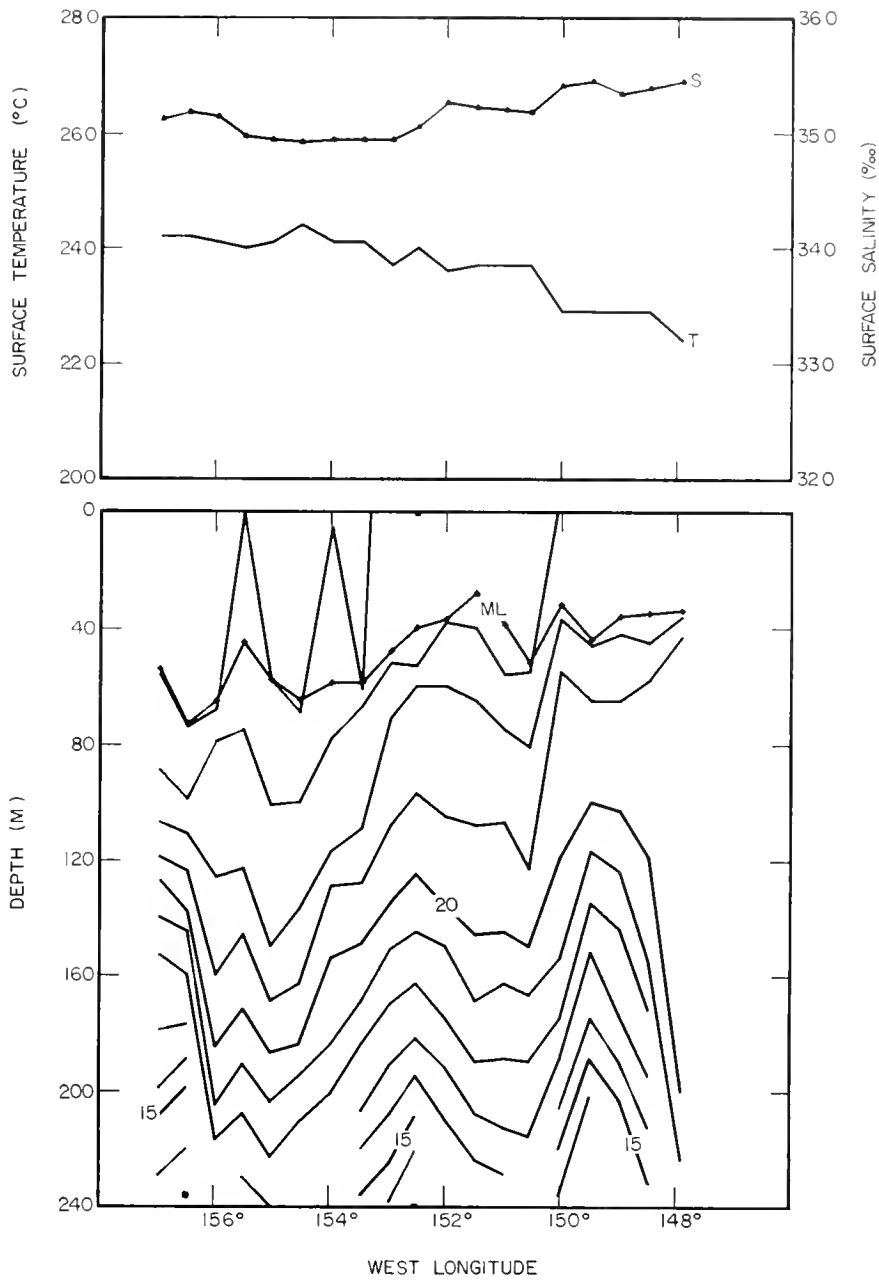


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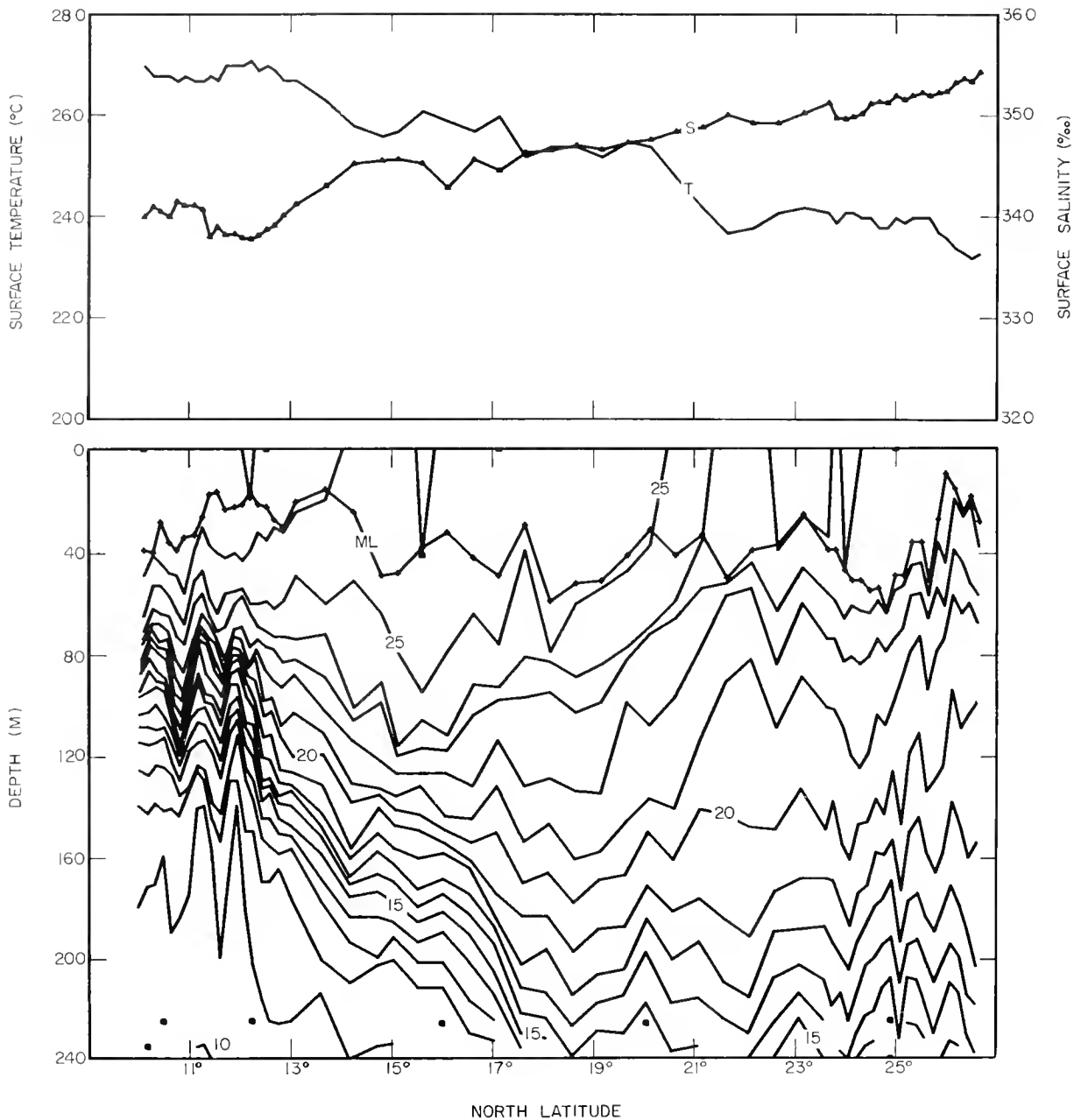


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

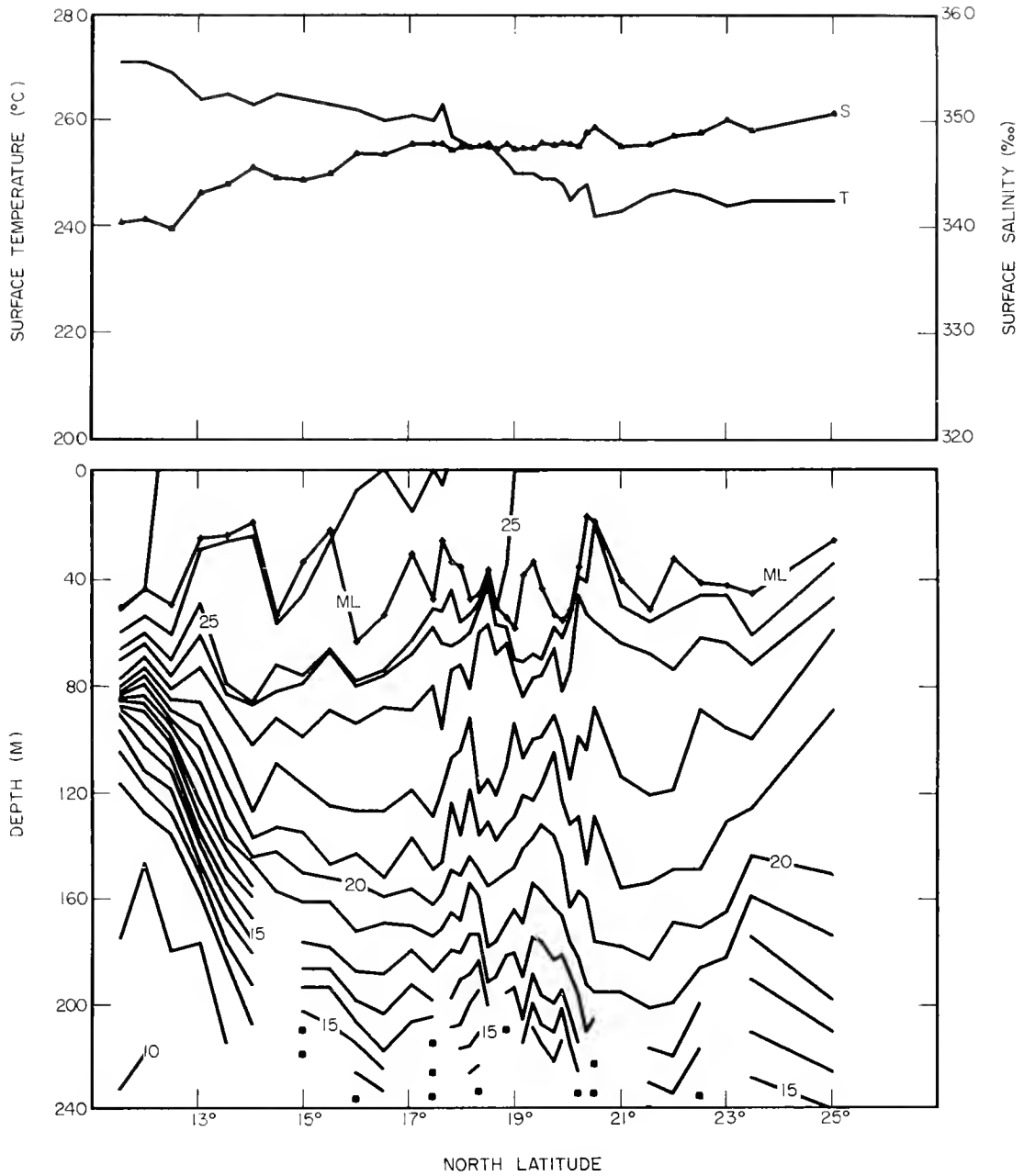


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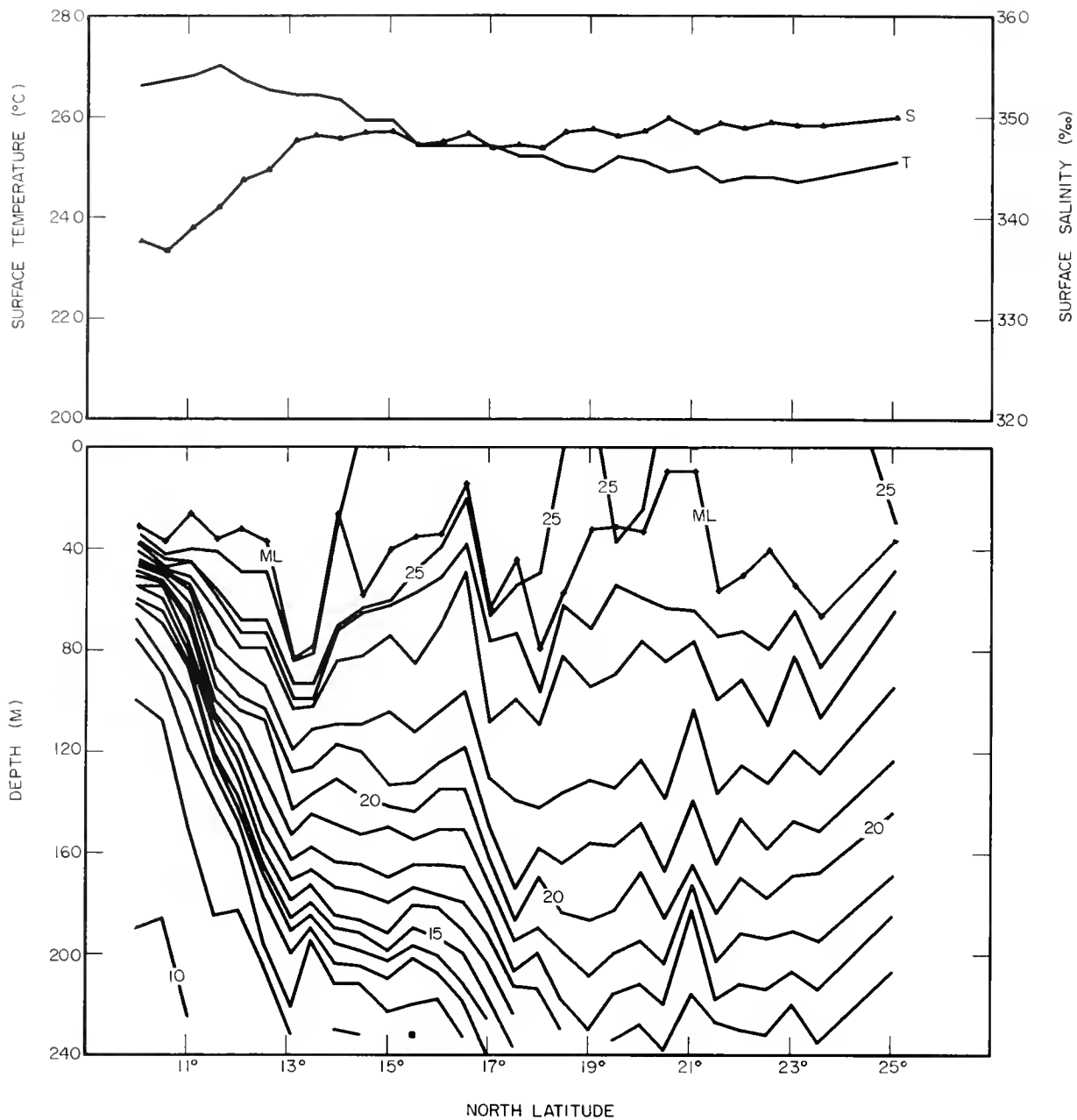


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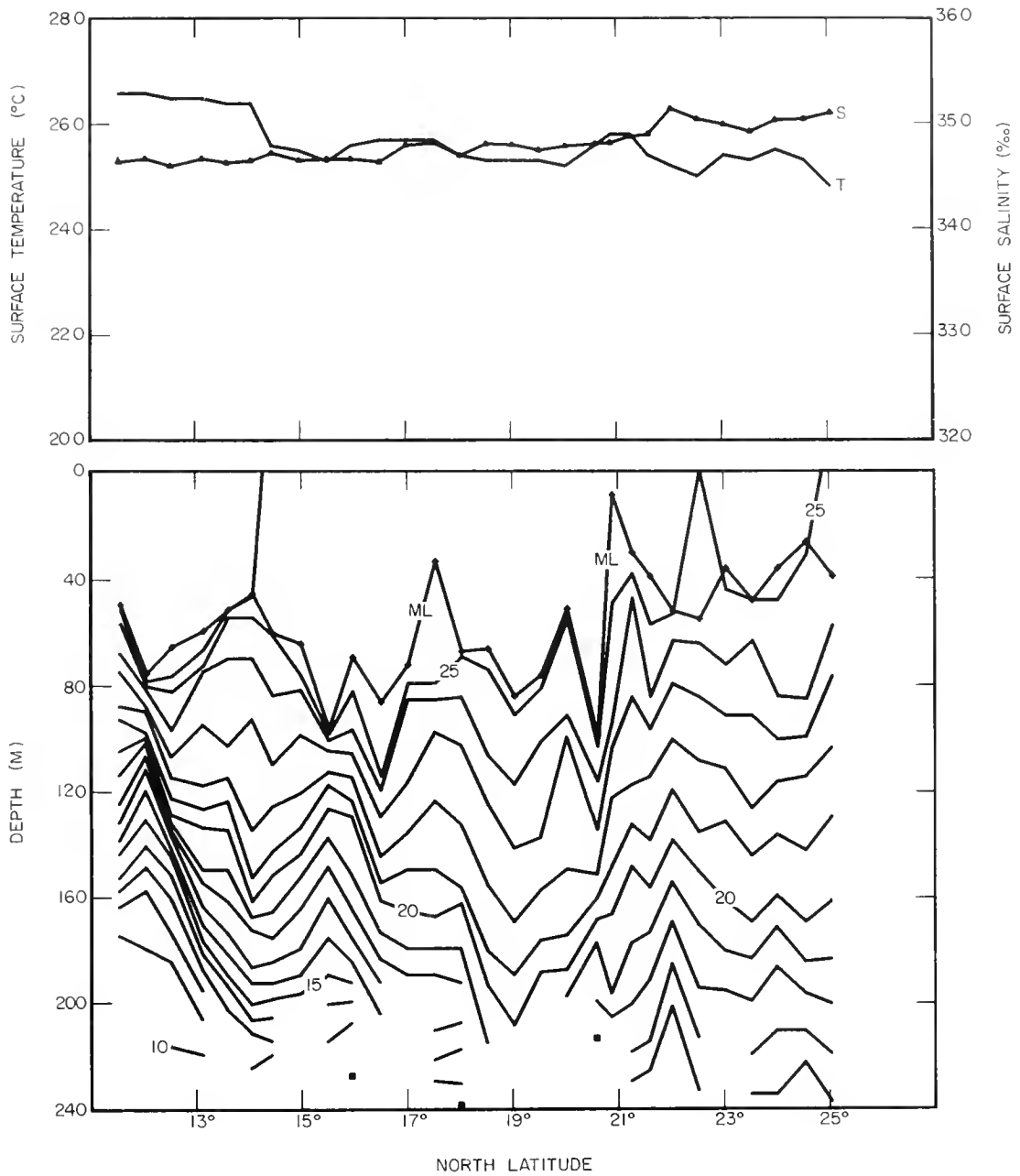


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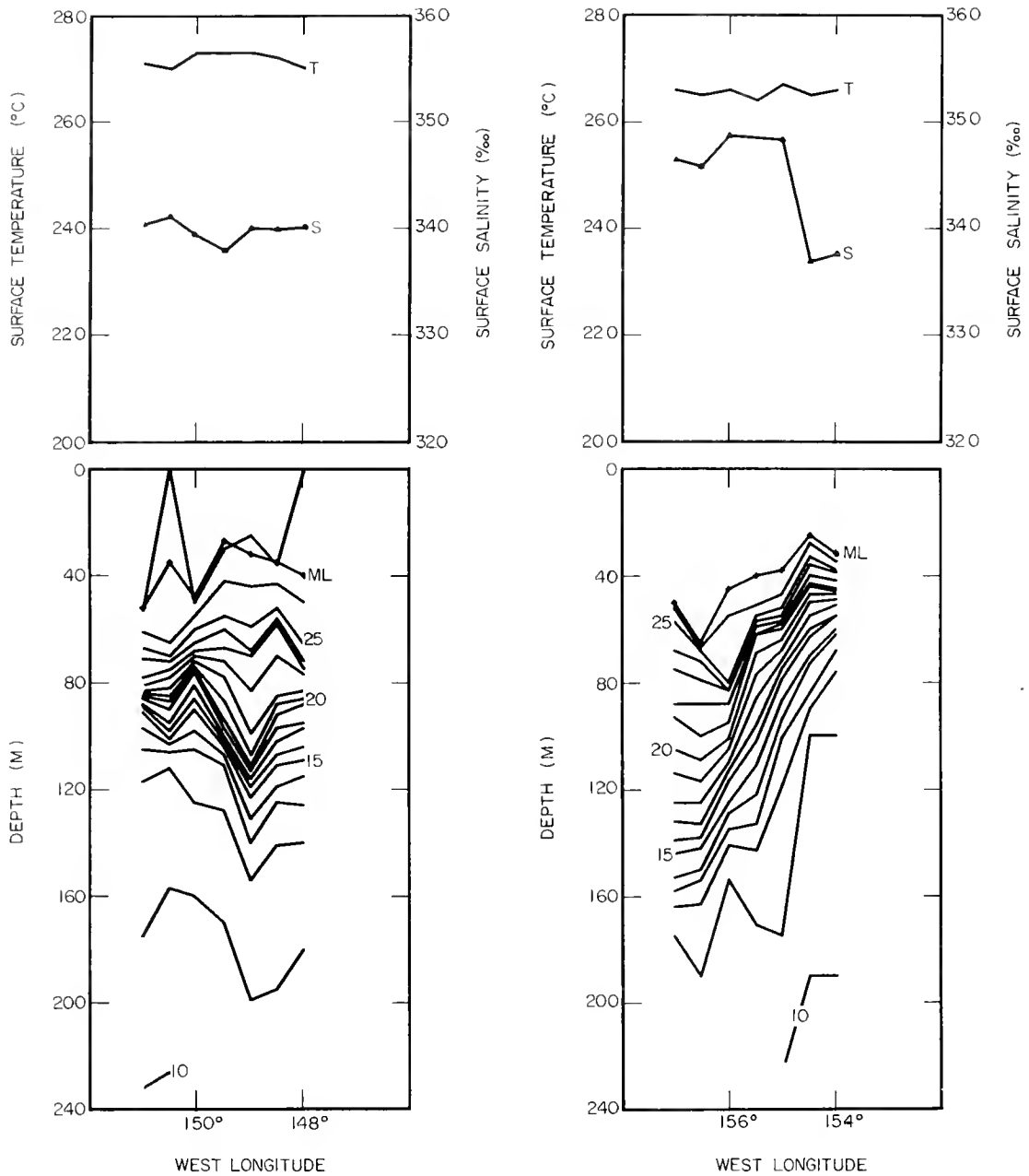


Figure 18.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower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

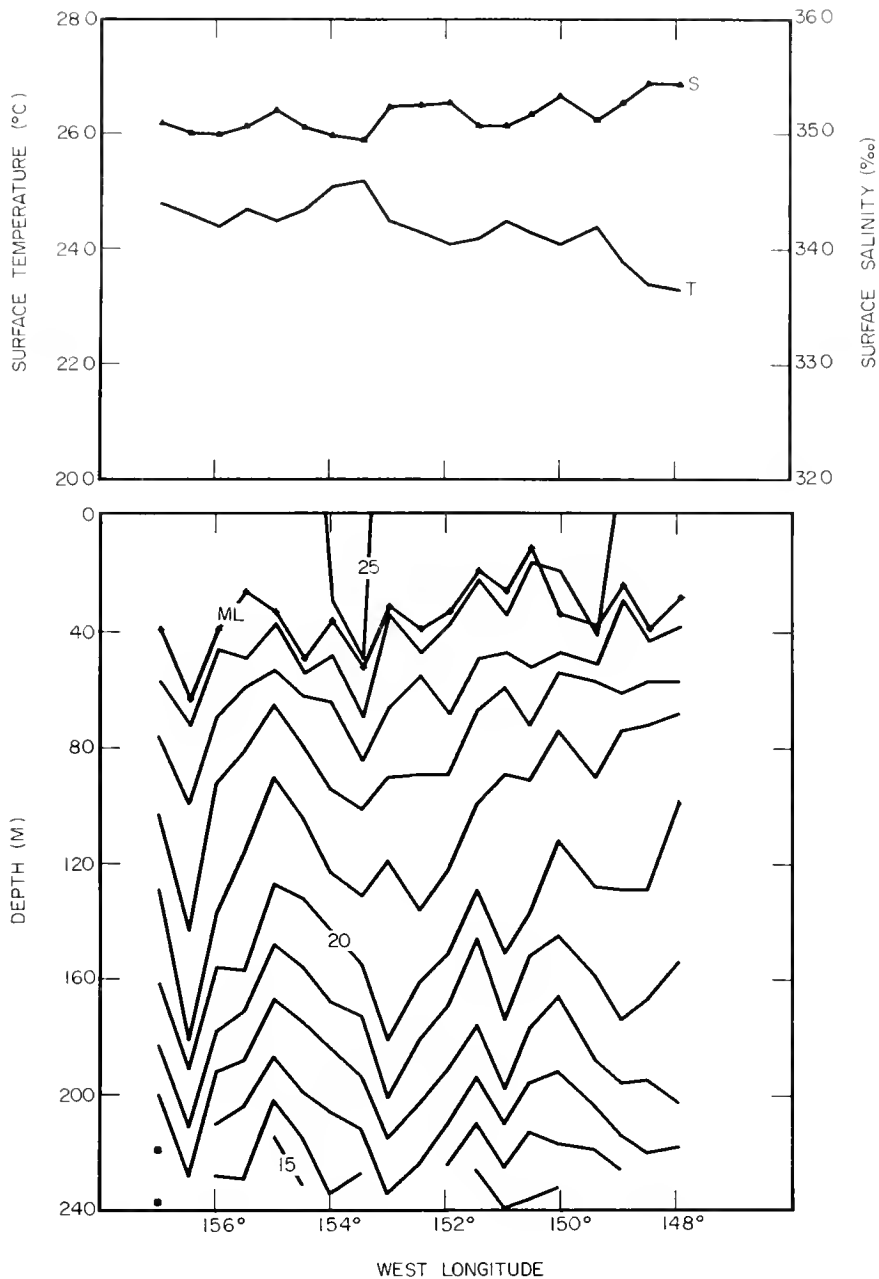


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

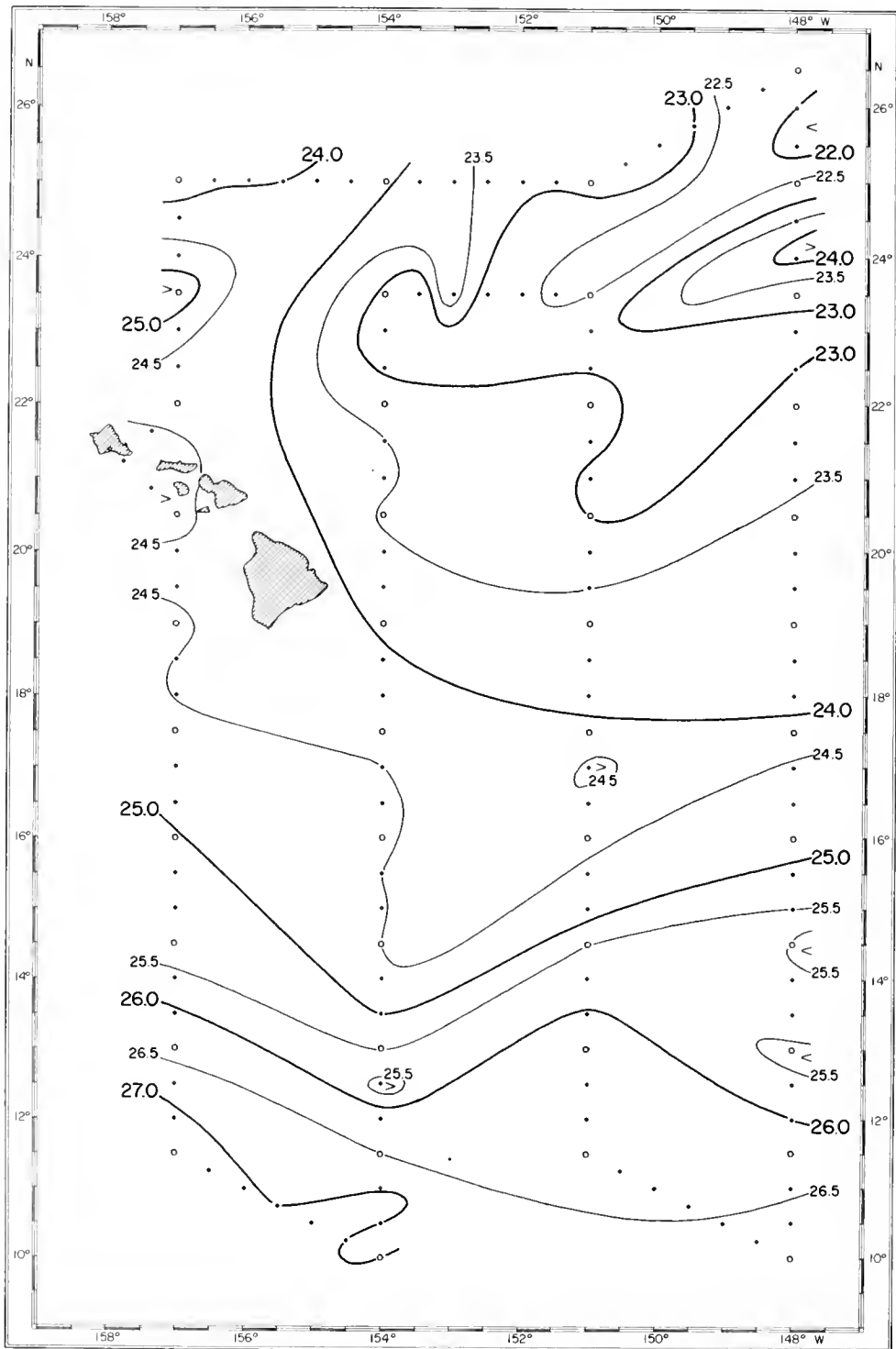


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 4.

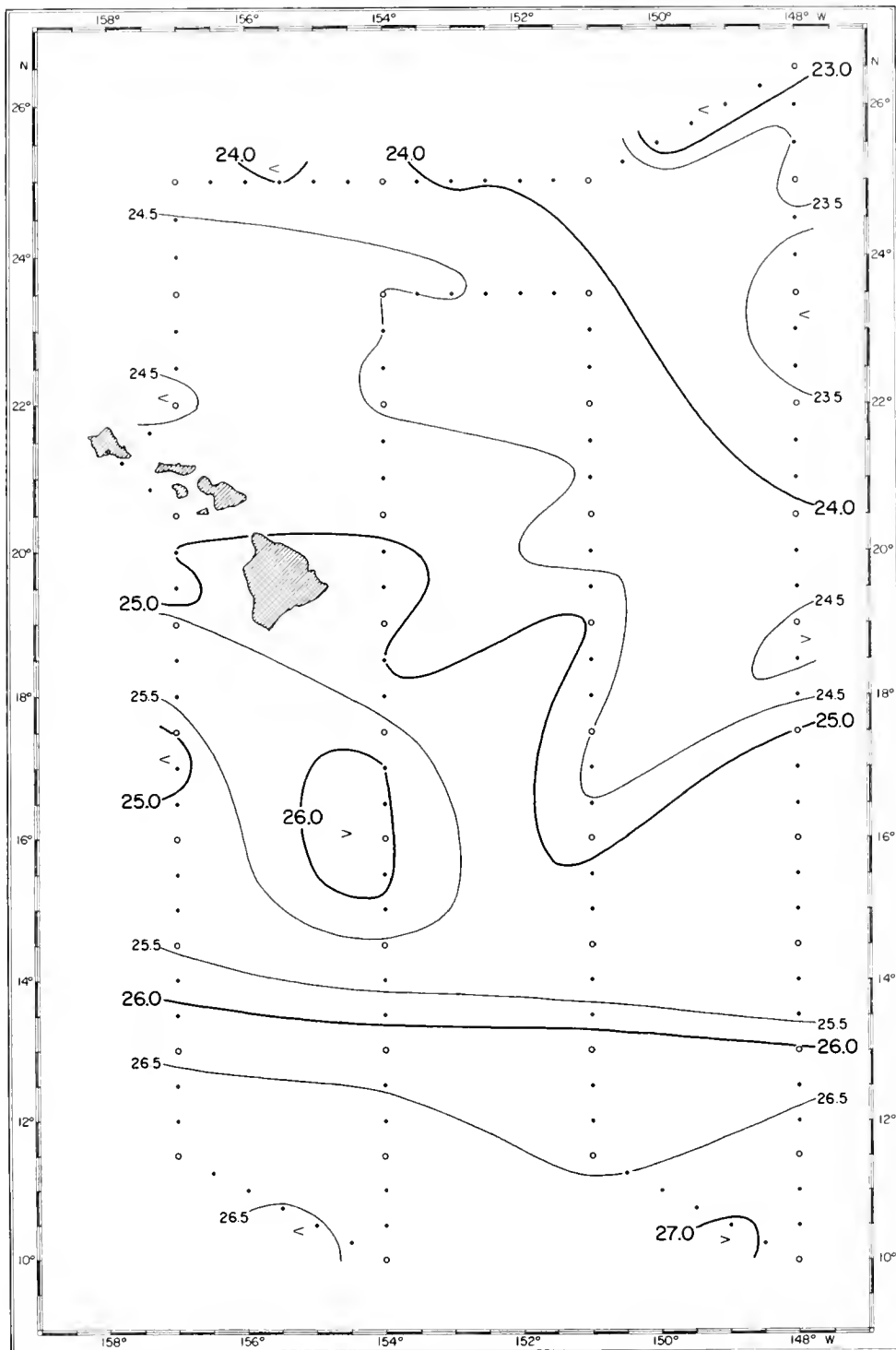


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 5.

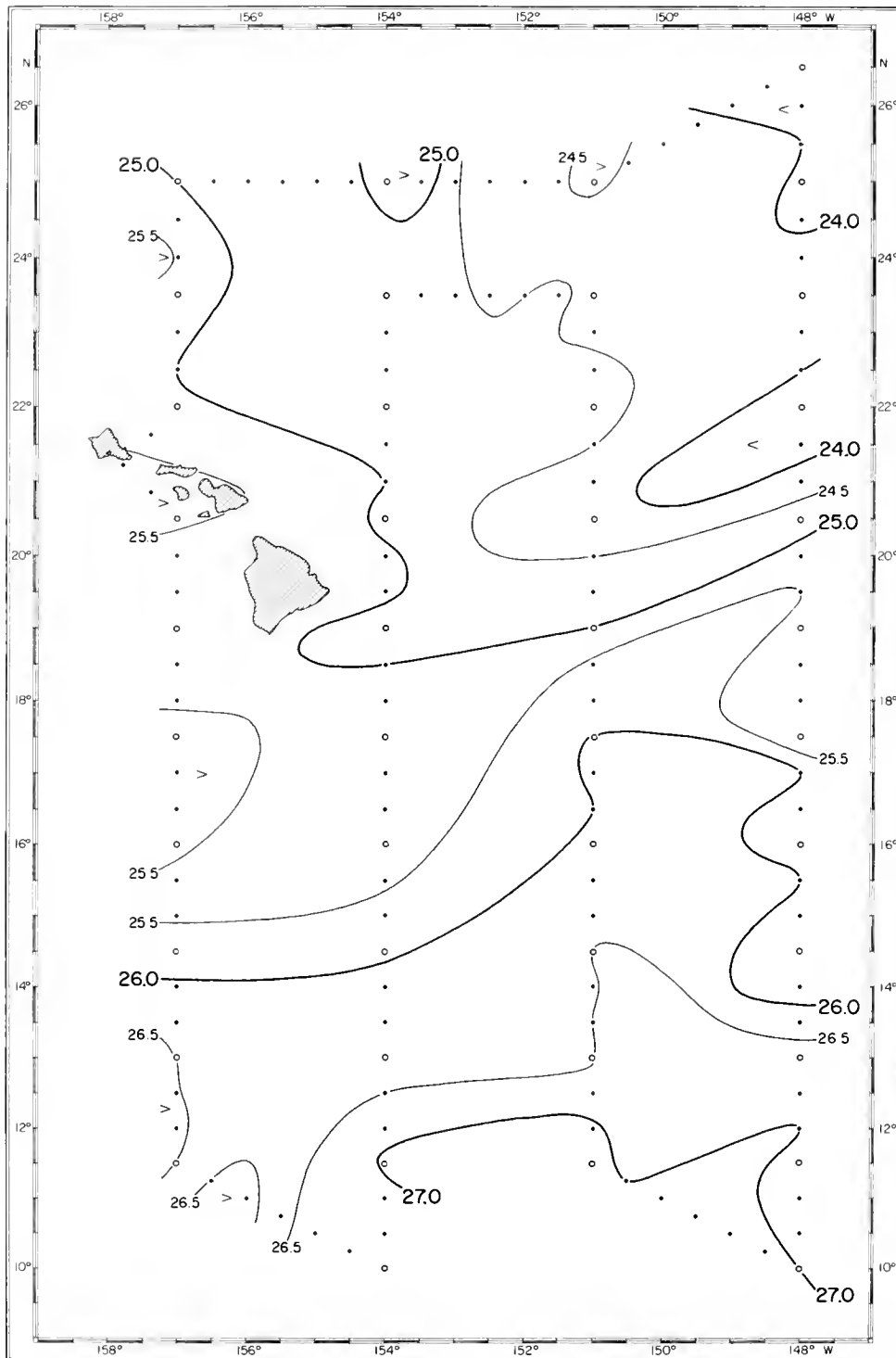


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 6.

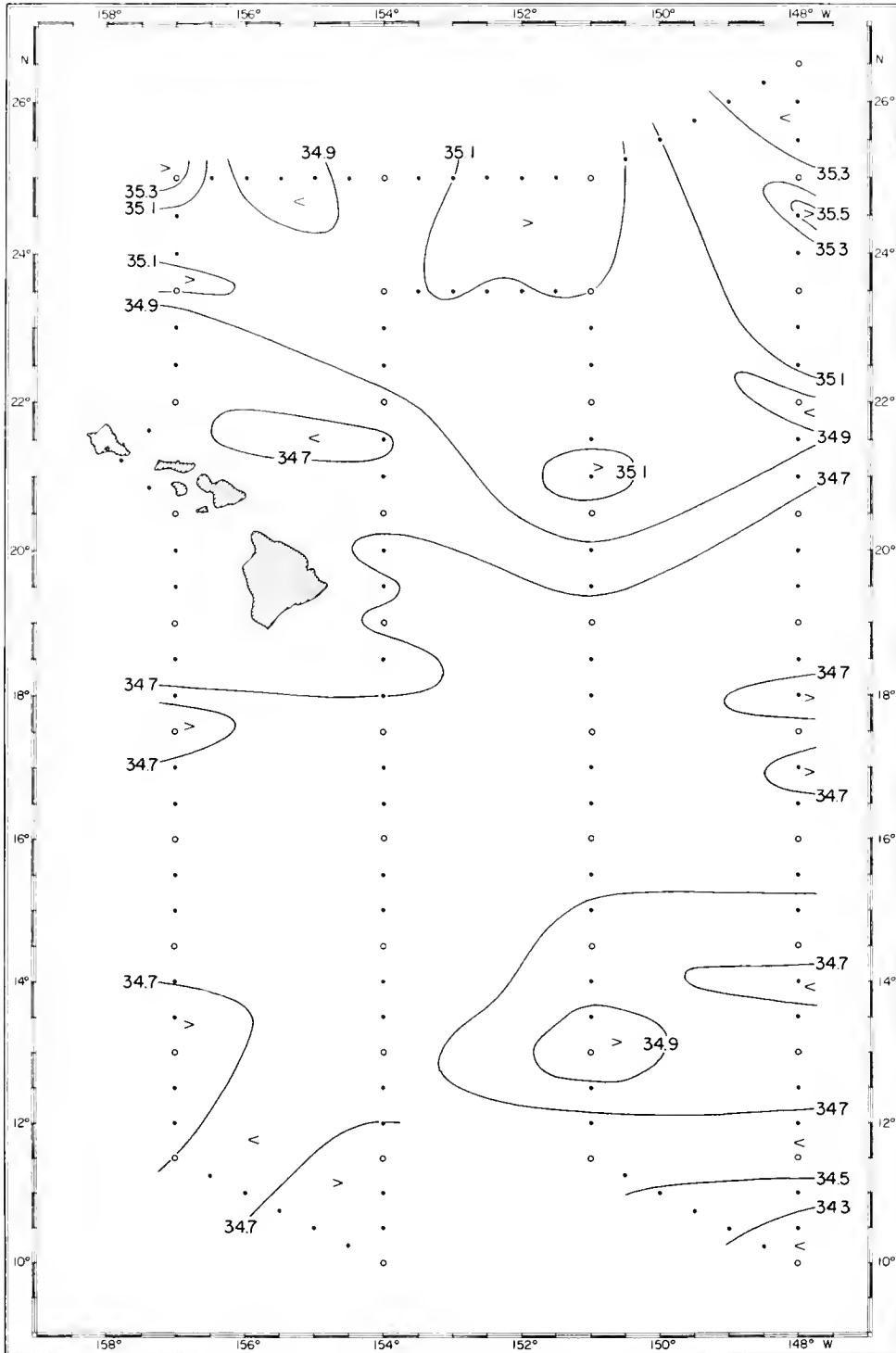


Figure 23.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 4.

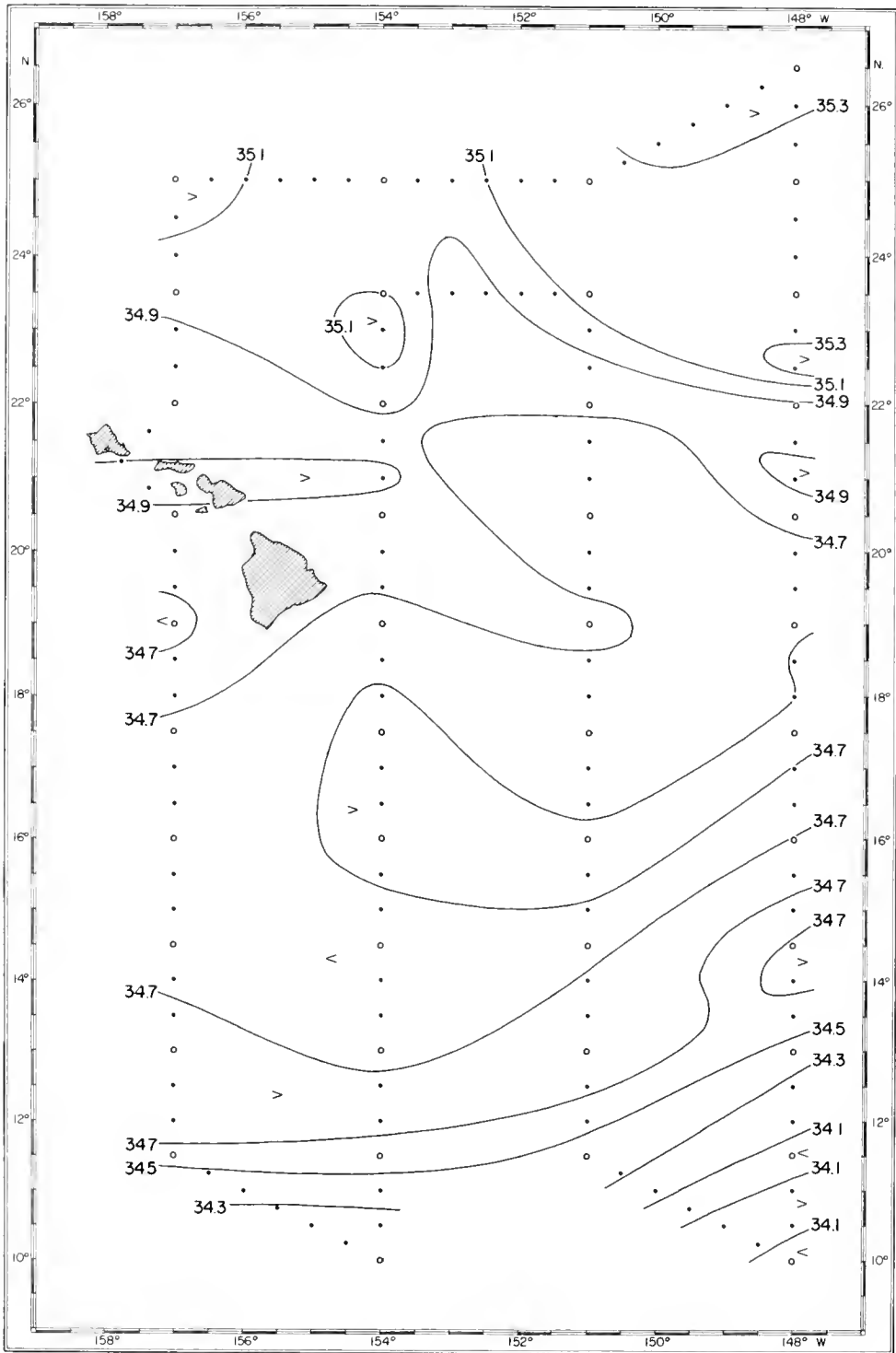


Figure 24.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 5.

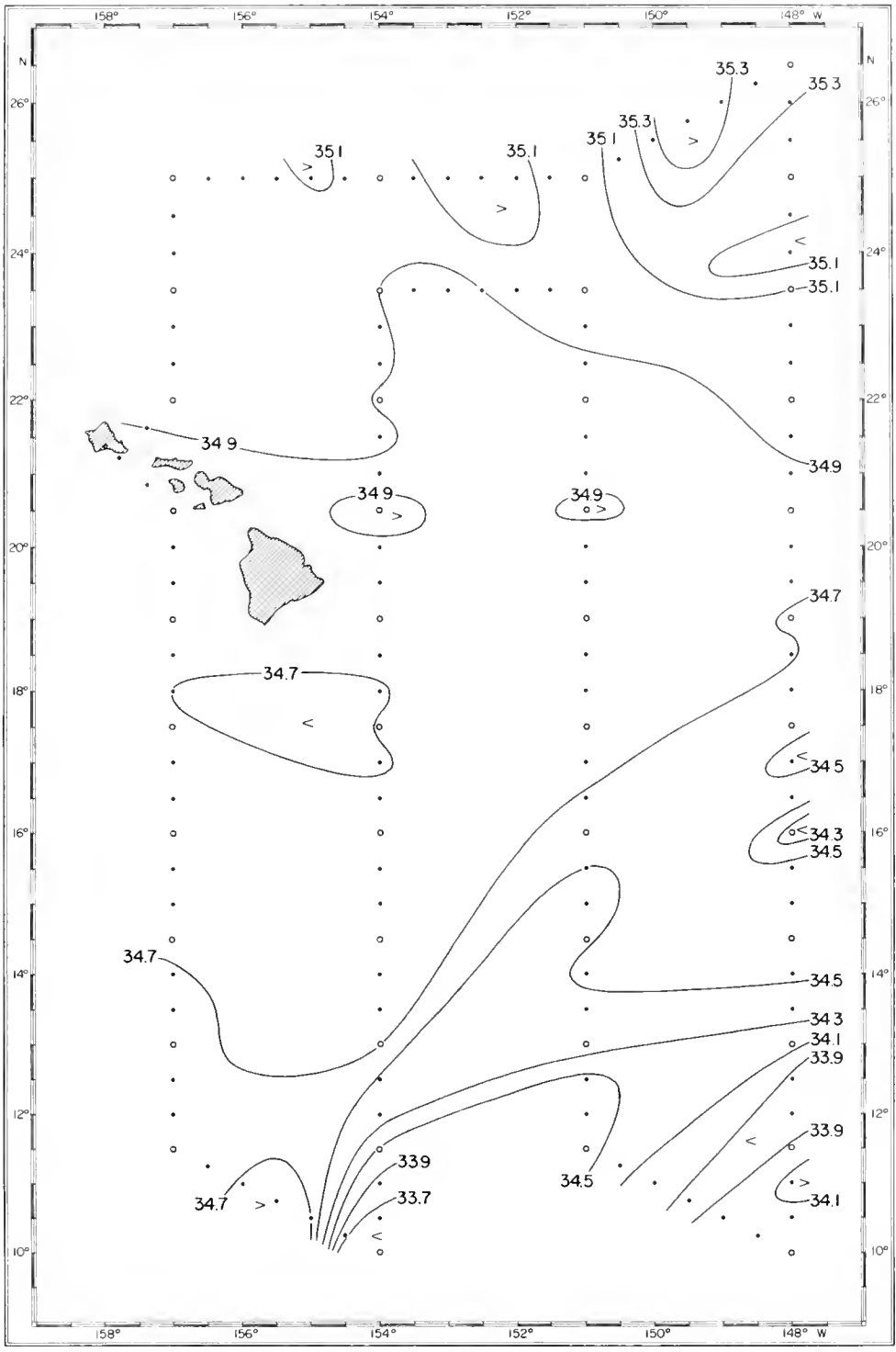


Figure 25.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 6.

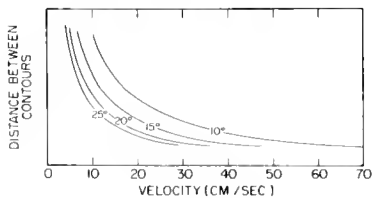
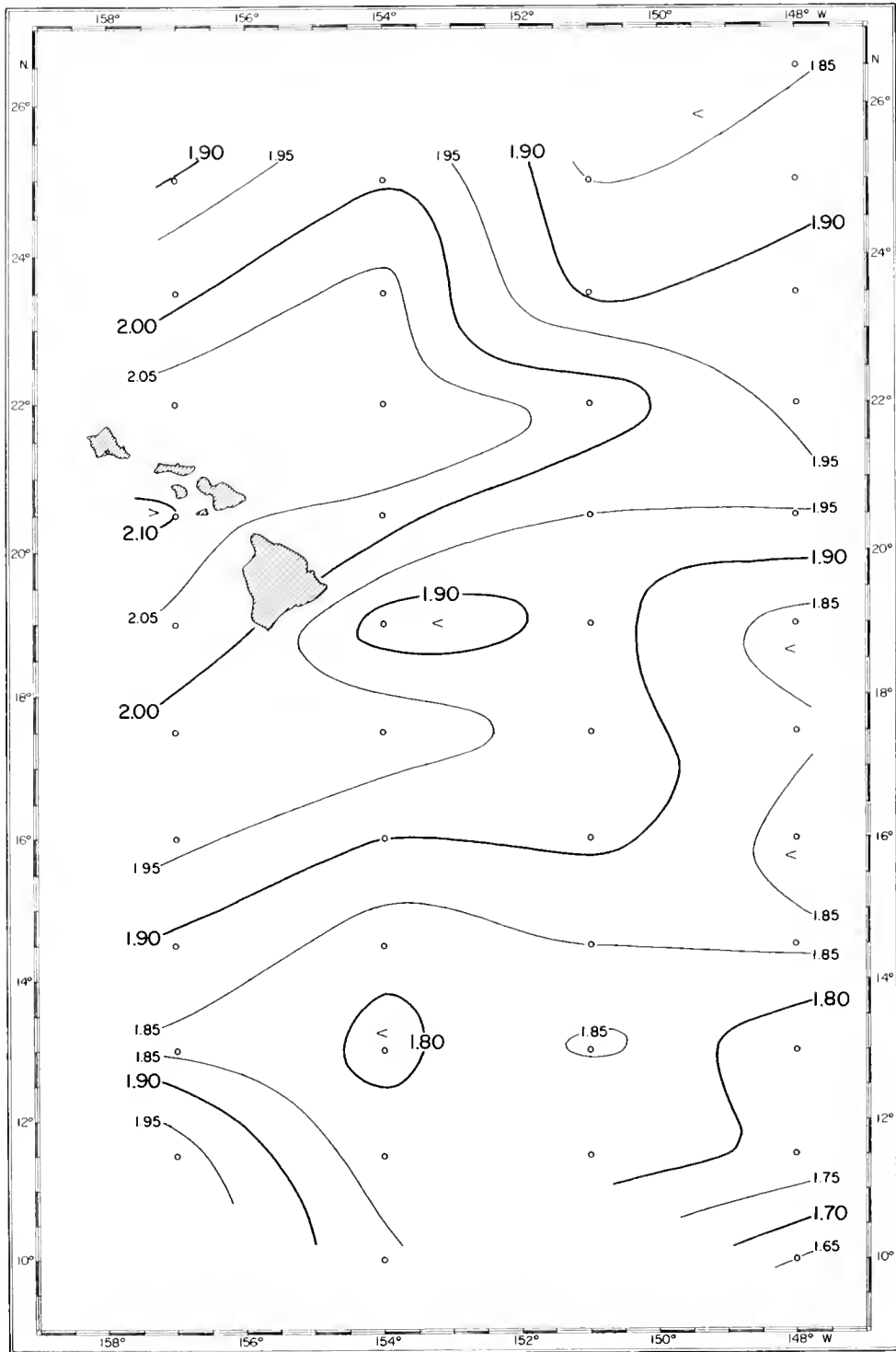


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 4.

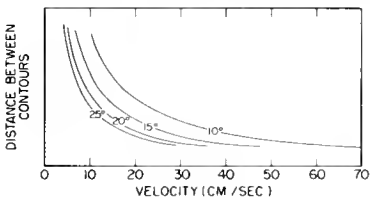
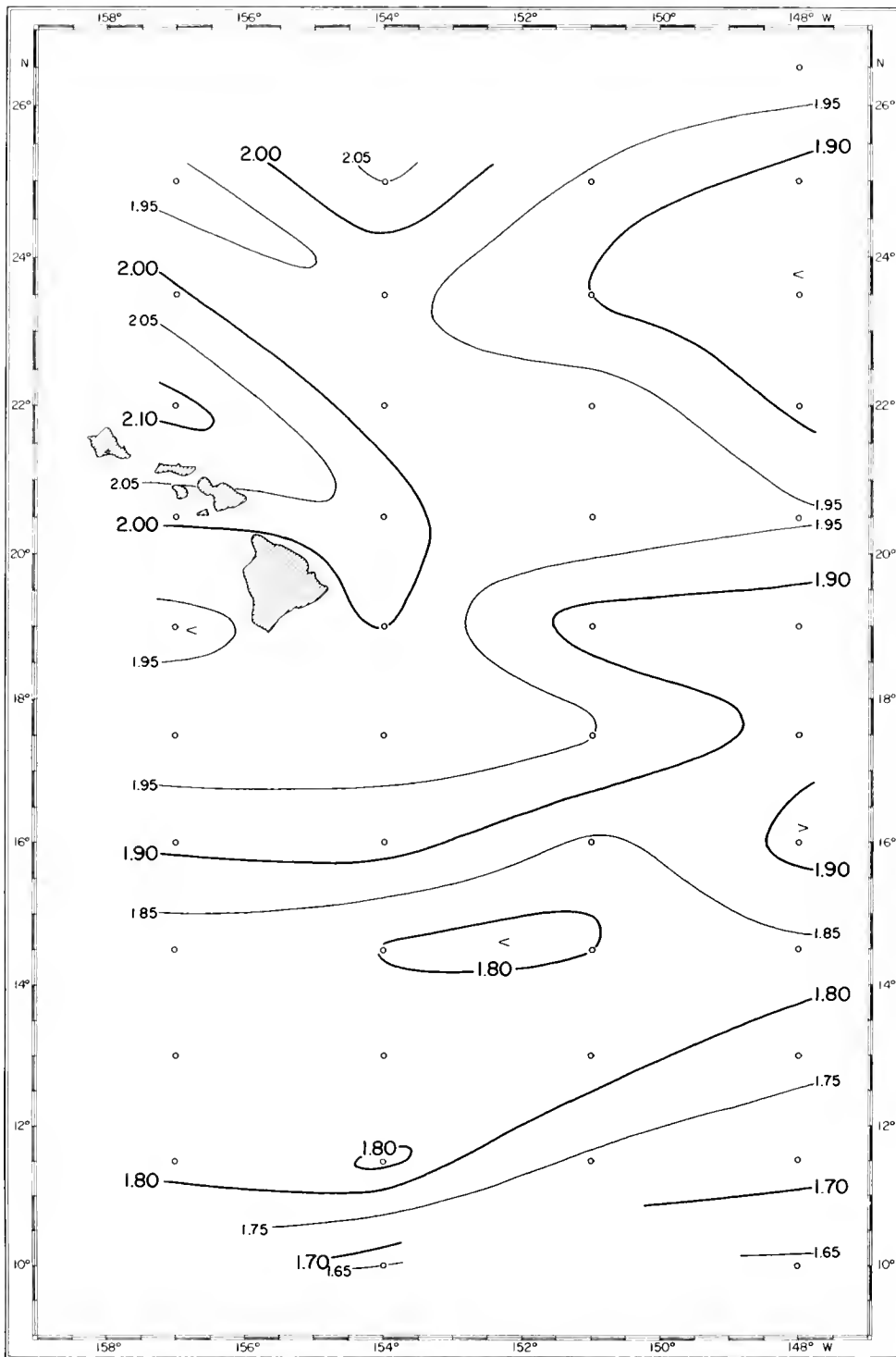


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 5.

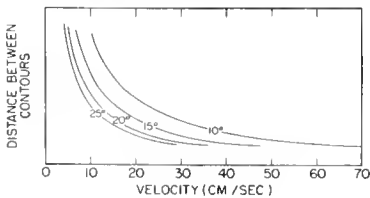
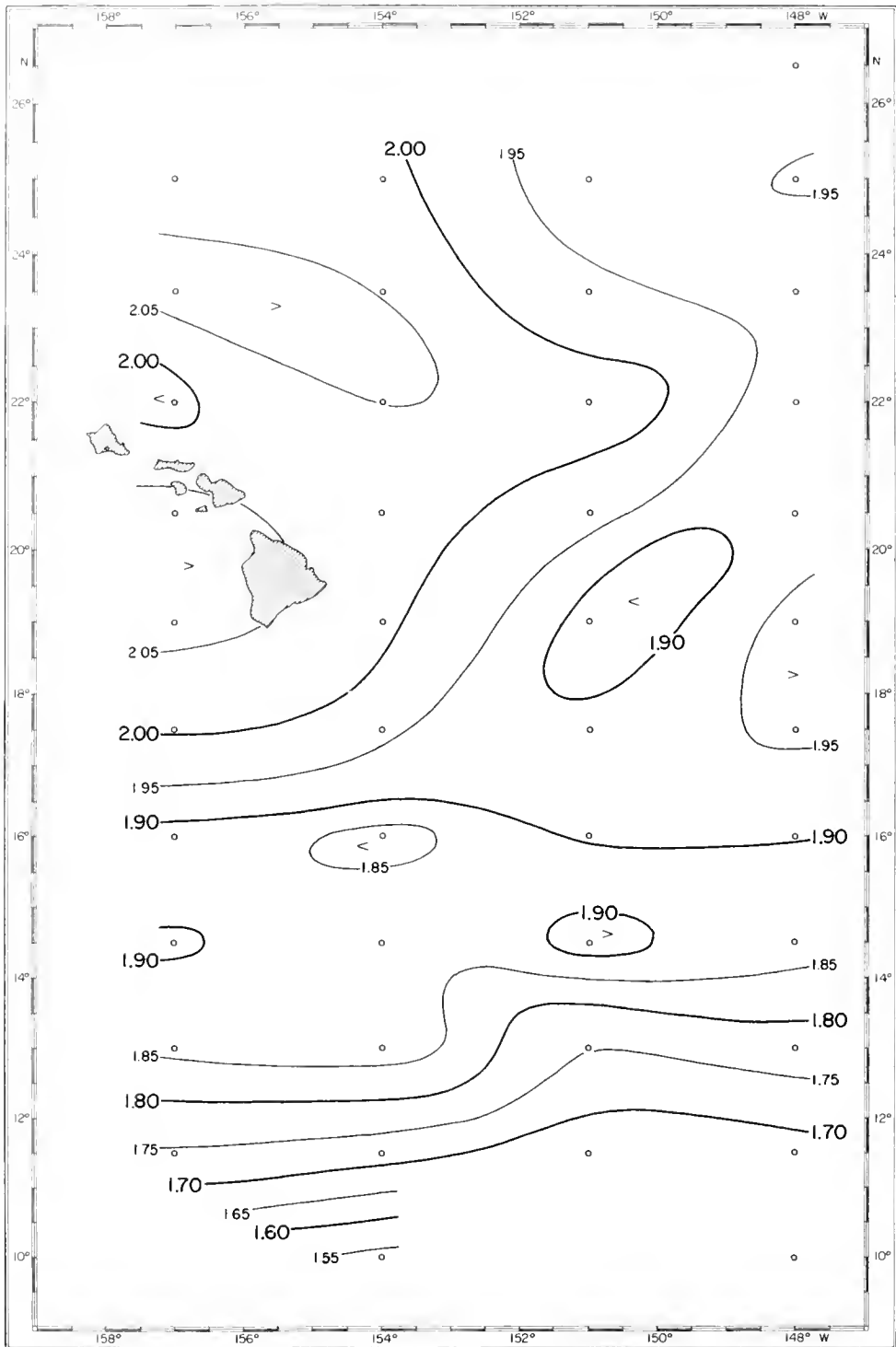


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 6.

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 4, STATION 1, 20-35N LAT, 157-15W LONG, MAY 17, 1964, 2400 G.C.T.												
DRY BULB 25.7	WET BULB 19.8	WIND SPEED 03	DIR. 08	BAR. 16	WEATHER 02	VIS. 8	CLOUD TYPE 7,	COVER 4				
DEPTH	TEMP.	SAL.	OXY.	PD4-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.	24.80	34.85			23.31	458.2	10.	24.79	34.85	23.31	457.8	0.047
30.Δ	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	150.	21.01	35.08	24.57	343.3	0.635
166.	20.29	35.04			24.73	327.9	200.	17.20	34.76	25.30	274.4	0.791
180.	18.98	34.95			25.01	302.2	250.	13.68	34.40	25.81	226.6	0.917
211.	16.30	34.65			25.43	262.5	300.	11.38	34.24	26.13	195.8	1.024
236.	14.60	34.47			25.67	239.7	400.	8.83	34.15	26.50	161.5	1.204
259.	13.13	34.36			25.89	218.8	500.	6.94	34.18	26.80	133.2	1.353
282.	12.03	34.28			26.04	204.3	600.	5.74	34.26	27.02	112.1	1.477
374.	9.42*	34.16			26.41	169.8	700.	5.21	34.36	27.17	99.1	1.583
468.	7.50	34.16			26.71	141.9	800.	4.85	34.44	27.27	89.9	1.679
561.	6.05	34.22			26.95	118.7	1000.	4.11	34.51	27.40	77.7	1.848
748.	5.10	34.41			27.22	94.6	1200.	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						

CROMWELL 4, STATION 2, 19- ON LAT, 157- ON LONG, MAY 17, 1964, 1100 G.C.T.												
DRY BULB 24.2	WET BULB 21.5	WIND SPEED 14	DIR. 05	BAR. 17	WEATHER 00	VIS. 8	CLOUD TYPE ,	COVER				
DEPTH	TEMP.	SAL.	OXY.	PD4-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	50.	24.11	34.80	23.48	443.7	0.228
122.	23.15	35.04			23.94	402.3	75.	24.10	34.89	23.55	438.2	0.339
145.	21.92	35.10			24.34	365.3	100.	23.62	34.95	23.74	421.0	0.447
167.	20.60	35.07			24.67	333.7	150.	21.60	35.10	24.42	357.1	0.643
185.	19.94	35.01			24.80	321.9	200.	18.94	34.93	25.00	303.2	0.810
215.	17.74	34.83			25.22	282.4	250.	15.20	34.56	25.61	246.2	0.948
240.	15.76	34.62			25.53	253.6	300.	11.69	34.22	26.06	203.1	1.061
267.	14.22	34.46			25.74	233.5	400.	8.55	34.15	26.55	156.9	1.243
290.	12.25	34.26			25.99	210.1	500.	6.65	34.23	26.89	124.9	1.385
384.	8.98	34.15			26.48	163.7	600.	5.80	34.33	27.07	107.9	1.503
473.	7.01	34.21			26.82	131.3	700.	5.28	34.40	27.19	97.0	1.606
558.	6.09	34.29			27.00	114.0	800.	4.89	34.45	27.27	89.8	1.701
731.	5.17	34.42			27.22	94.6	1000.	4.23	34.49	27.38	80.6	1.873
904.	4.52	34.47			27.33	84.6	1200.	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

CROMWELL 4, STATION 3, 17-30N LAT, 157- ON LONG, MAY 18, 1964, 1900 G.C.T.												
DRY BULB 25.0	WET BULB 22.0	WIND SPEED 18	DIR. 09	BAR. 17	WEATHER 03	VIS. 8	CLOUD TYPE 7,	COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PD4-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.	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	50.	24.64	34.64	23.20	470.3	0.236
95.	23.44	34.84			23.71	423.7	75.	24.42	34.67	23.28	463.1	0.354
119.	22.75	35.01			24.03	393.3	100.	23.31	34.88	23.78	417.0	0.465
142.	21.44	35.01			24.40	359.0	150.	21.06	35.03	24.52	348.0	0.657
166.	20.32	35.04			24.73	328.7	200.	18.34	34.84	25.09	295.2	0.819
189.	19.18	34.93			24.94	308.9	250.	13.88	34.39	25.76	231.2	0.952
212.	17.28	34.73			25.26	278.9	300.	10.96	34.19	26.17	192.0	1.059
236.	14.94	34.48			25.60	246.1	400.	7.83	34.14	26.64	147.2	1.230
258.	13.34	34.35			25.84	223.6	500.	6.32	34.24	26.93	120.1	1.365
281.	11.88	34.24			26.04	204.5	600.	5.73	34.38	27.11	103.5	1.478
372.	8.54	34.14			26.54	157.3	700.	5.32	34.45	27.22	94.0	1.578
461.	6.72	34.18			26.83	129.3	800.	4.94	34.48	27.29	88.1	1.670
549.	6.00	34.32			27.04	110.5	1000.	4.20	34.52	27.40	78.1	1.838
726.	5.24	34.46			27.24	92.5	1200.	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						

FROM ST DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 25.1		4. STATION WET BULB 22.1		4, 15-58N LAT, 157-1W LONG, MAY 19, 1964, 0400 G.C.T.		WIND SPEED 14, DIR. 08 BAR. 14		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	EXY.	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	131.5	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 DRY BULB 25.0		4. STATION WET BULB 23.0		5, 14-30N LAT, 156-59W LONG, MAY 19, 1964, 1200 G.C.T.		WIND SPEED 15, DIR. 06 BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 0	
DEPTH	TEMP.	SAL.	EXY.	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.	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 DRY BULB 26.1		4. STATION WET BULB 24.0		6, 13-9N LAT, 157-3W LONG, MAY 19, 1964, 2200 G.C.T.		WIND SPEED 20, DIR. 06 BAR. 14		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	EXY.	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.Δ	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.Δ	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 LONG, MAY 20, 1964, 0700 G.C.T.		WIND SPEED 18, DIR. 06		BAR. 13		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	27.42	34.56			22.27	556.9	0.	27.42	34.56	22.27	556.9	0.000	
10.Δ	27.35	34.58			22.31	554.5	10.	27.39	34.57	22.29	556.1	0.056	
30.Δ	27.32	34.60			22.34	553.0	20.	27.37	34.57	22.30	555.3	0.112	
50.Δ	27.30	34.64			22.37	550.5	30.	27.35	34.58	22.31	554.5	0.168	
75.Δ	27.29	34.66			22.39	549.2	50.	27.32	34.60	22.34	553.0	0.279	
86.	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.	8.84	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- ON LONG, MAY 21, 1964, 0300 G.C.T.		WIND SPEED 14, DIR. 10		BAR. 10		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	27.14	34.82			22.56	529.6	0.	27.14	34.82	22.56	529.6	0.000	
11.	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 LONG, MAY 21, 1964, 1200 G.C.T.		WIND SPEED 20, DIR. 08		BAR. 12		WEATHER 00		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	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	1.660	
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							

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 25.7		4, STATION WET BULB 23.2		9, 13-44 LAT, 154- WIND SPEED 23, DIR. 08			0W LCNG, MAY 21, 1964, 2200 G.C.T. 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.	24.90	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						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 25.3		4, STATION WET BULB 22.6		10, 14-30N LAT, 154- WIND SPEED 24, DIR. 08			2W LCNG, MAY 22, 1964, 0800 G.C.T. BAR. 16 WEATHER 01		VIS. R		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	26.88	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						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.8		4, STATION WET BULB 21.7		11, 16- ON LAT, 153-59W LCNG, MAY 22, 1964, 1700 G.C.T. 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						

FROM ST 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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
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

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
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.	23.77	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			25.42	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	34.16	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								

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
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

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 15, 21-59N LAT, 154-2W LONG, MAY 24, 1964, 0600 G.C.T.		DRY BULB 23.2 WET BULB 20.2 WIND SPEED 26, DIR. 10 BAR. 15 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.	21.22	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			27.46	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 LONG, 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	40.	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	332.4	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			27.15	96.4	1200.	3.43	34.55	27.51	68.1	2.073
954.	4.07	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 LONG, 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.	22.87	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 4, STATION 18, 22-14N LAT, 150-58W LONG, MAY 25, 1964, 2000 G.C.T.				DRY BULB 23.4 WET BULB 20.1 WIND SPEED 16, DIR. 10 BAR. 21 WEATHER 02 VIS. 8 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	OXY.	PD4-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

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 19, 20-28N LAT, 151-4W LONG, MAY 26, 1964, 0500 G.C.T.				DRY BULB 23.1 WET BULB 20.1 WIND SPEED 16, DIR. 08 BAR. 19 WEATHER 03 VIS. 7 CLOUD TYPE 5, COVER 8								
DEPTH	TEMP.	SAL.	OXY.	PD4-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	389.0	10.	22.88	35.05	24.03	389.0	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.	7.69	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

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 4, STATION 20, 18-56N LAT, 151-4W LONG, MAY 26, 1964, 1500 G.C.T.				DRY BULB 23.3 WET BULB 20.3 WIND SPEED 19, DIR. 07 BAR. 17 WEATHER 01 VIS. 7 CLOUD TYPE 4, COVER 7								
DEPTH	TEMP.	SAL.	OXY.	PD4-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	451.1	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	1.465
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, 0000 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.OPTH.	
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.OPTH.	
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	0.458	
172.	18.81	34.88			25.00	302.9	150.	19.77	34.97	24.82	318.8	0.646	
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	135.6	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.OPTH.	
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	78.0	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							

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.4		4, STATION WET BULB 22.9		24, 12-58N LAT, 150-59W LONG, MAY 28, 1964, 0300 G.C.T.		28, 1964, 0300 G.C.T. BAR. 13		WEATHER 02 VIS. 7		CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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	126.6	1.079
270.	10.04	34.55			26.61	149.2	500.	7.82	34.56	26.91	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.	4.5R	34.54			27.38	81.0						
1181.	3.87	34.56			27.47	72.4						
1478.	3.04	34.60			27.58	61.6						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.7		4, STATION WET BULB 23.8		25, 11-23N LAT, 151- 0W LONG, MAY 28, 1964, 1200 G.C.T.		28, 1964, 1200 G.C.T. BAR. 14		WEATHER 03 VIS. 7		CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	26.34	34.58			22.63	522.6	0.	26.34	34.58	22.63	522.6	0.000
8. Δ	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 TERM AT 100. METERS IS 0.18

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.8		4, STATION WET BULB 24.1		26, 10- 4N LAT, 148- 8W LONG, MAY 29, 1964, 0800 G.C.T.		29, 1964, 0800 G.C.T. BAR. 14		WEATHER 02 VIS. 8		CLOUD TYPE 5, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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.	5.56	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						

 Δ FROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA			
CROMWELL DRY BULB 25.6		4, STATION	27, 11-38N LAT, 148- WET BULB 23.8	WIND SPEED 21, DIR. 07	MAY 29, 1964, 1700 G.C.T.	BAR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 4, COVER 8			
DEPTH	TEMP.	SAL.	EXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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.	26.20	34.66			22.74	513.8	20.	26.20	34.66	22.74	513.5	0.103
50.	26.20	34.66			22.74	514.6	30.	26.20	34.66	22.74	513.8	0.155
76.	23.27	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			27.08	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			27.58	70.1						
1512.	3.07	34.62			27.60	60.7						

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA			
CROMWELL DRY BULB 26.5		4, STATION	28, 13- ON LAT, 148- WET BULB 23.7	WIND SPEED 15, DIR. 07	MAY 30, 1964, 0200 G.C.T.	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE 7, COVER 6			
DEPTH	TEMP.	SAL.	EXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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.	25.24	34.70			23.06	482.6	20.	25.24	34.70	23.06	482.1	0.097
50.	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	482.8	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
228.	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						

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA			
CROMWELL DRY BULB 25.0		4, STATION	29, 14-30N LAT, 147-58W WET BULB 22.9	WIND SPEED 16, DIR. 06	MAY 30, 1964, 1100 G.C.T.	BAR. 15	WEATHER 50	VIS. 7	CLOUD TYPE 4, COVER 8			
DEPTH	TEMP.	SAL.	EXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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.	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
294.	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						

▲FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 27.3		4, STATION WET BULB 23.0		30, 16- IN LAT, 147-56W LONG, MAY WIND SPEED 14, DIR. 06		30, 1964, 2000 G.C.T. 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.	17.57	34.73			25.20	283.0	200.	13.76	34.35	25.75	230.6	0.723	
185.	15.56	34.50			25.48	256.4	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.	9.7	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.	6.98	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							

CROMWELL DRY BULB 24.0		4, STATION WET BULB 21.8		31, 17-34N LAT, 148- 4W LONG, MAY WIND SPEED 19, DIR. 08		31, 1964, 0500 G.C.T. 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***			26.61	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			27.56	62.1							

CROMWELL DRY BULB 23.6		4, STATION WET BULB 20.9		32, 18-59N LAT, 147-57W LONG, MAY WIND SPEED 15, DIR. 08		31, 1964, 1400 G.C.T. 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.	23.06	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			24.05	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.	19.57	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 LRRDR 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		4, STATION		33, 20-30N LAT, 147-59W LONG, MAY		31, 1964, 2300 G.C.T.									
DRY BULB	24.1	WET BULB	20.7	WIND SPEED	20, DIR.	08	BAR.	20	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER	2
DEPTH	TEMP.	SAL.	CHL.	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	23.9P	395.5	0.215			
128.	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	35.1P			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	0.372			
256.	14.19	34.59			25.85	223.1	300.	11.52	34.13	26.02	206.4	0.983			
283.	12.43	34.27			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			26.50P	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									

CROMWELL		4, STATION		34, 22-3N LAT, 147-58W LONG, JUN		1, 1964, 1400 G.C.T.									
DRY BULB	22.5	WET BULB	19.0	WIND SPEED	10, DIR.	07	BAR.	21	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER	2
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.32	34.78			23.65	421.0	0.	23.32	34.78	23.69	421.0	0.000			
11.	23.33	34.7H			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	0.495			
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	254.6	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	34.08			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									

CROMWELL		4, STATION		35, 23-32N LAT, 147-59W LONG, JUN		1, 1964, 2200 G.C.T.									
DRY BULB	23.0	WET BULB	19.4	WIND SPEED	15, DIR.	11	BAR.	22	WEATHER	02	VIS.	9	CLOUD TYPE	8, COVER	1
DEPTH	TEMP.	SAL.	CHL.	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	0.431			
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.		WIND SPEED 11, DIR. 13		BAR. 23		WEATHER 02		VIS. 9		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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.	17.98	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	34.14			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							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 22.2		4, STATION 37, 26-29N LAT, 148-0W LONG, JUNE 2, 1964, 1700 G.C.T.		WIND SPEED 11, DIR. 22		BAR. 21		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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	
381.	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			27.19	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							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 23.3		4, STATION 38, 25- ON LAT, 151-0W LONG, JUNE 3, 1964, 1100 G.C.T.		WIND SPEED 16, DIR. 25		BAR. 18		WEATHER 02		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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	
30.0	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

FROM 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	OYN.DPTH.	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	24.09	35.07***			23.69	421.7	0.	24.09	35.07	23.69	421.7	0.000	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	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	20.	23.69	34.96	23.72	419.4	0.085
79.	22.58	35.06			24.12	383.5	30.	23.57	34.95	23.75	417.3	0.127	30.	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	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	75.	22.71	35.05	24.07	387.8	0.311
154.	19.28	35.02			24.9P	303.6	100.	21.70	35.06	24.37	360.5	0.405	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	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	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	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	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	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	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	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	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	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	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	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	1500.	2.82	34.56	27.57	61.9	2.188
1521.	2.78	34.56			27.58	61.6												

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA								
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	3,	COVER	6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	23.71	35.28			23.96	395.8	0.	23.71	35.28	23.96	395.8	0.000	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	10.	23.48	35.28	24.03	389.8	0.040
51.	22.30	35.30			24.3E	357.6	20.	23.17	35.28	24.12	381.3	0.078	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	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	0.170	50.	22.33	35.30	24.37	358.3	0.170
126.	20.62	35.22			24.78	321.9	75.	22.06	35.32	24.46	350.6	0.279	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	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	150.	19.33	35.06	25.00	302.2	0.527
192.	17.29	34.78			25.25	274.8	200.	16.97	34.74	25.34	270.8	0.672	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	233.2	0.799	250.	14.22	34.46	25.74	233.2	0.799
253.	14.02	34.44			25.77	230.5	300.	12.09	34.25	26.01	208.1	0.910	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	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	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	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	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	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	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	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												

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA								
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	OYN.DPTH.	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	24.58	35.14			23.59	430.6	0.	24.58	35.14	23.59	430.6	0.000	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	10.	24.15	35.10	23.69	421.6	0.043
30.	23.88	35.12			23.79	413.3	20.	23.96	35.10	23.75	416.8	0.085	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	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	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	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	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	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	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	0.968	250.	14.13	34.44	25.75	232.3	0.968
230.	15.54	34.60			25.56	250.0	300.	11.62	34.20	26.06	203.1	0.978	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	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	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	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	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	800.	4.40	34.35	27.25	90.9	1.665
604.	5.85	34.17			26.94	120.3</												

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 4, STATION		42, 22- ON LAT, 157- 2W LONG, JUNE 5, 1964, 1500 G.C.T.			8AR. 19		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 1	
DRY BULB 24.8	WET BULB 21.0	WIND SPEED 15, DIR. 05										
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
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			25.58	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	FOC.	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, OPCO C.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	OYN.OPTH.
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	23.45	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.	18.28	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- 0W LONG, JUNE 16, 1964, 18CO 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	OYN.OPTH.
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- 0W 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	OYN.OPTH.
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 ST DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL 5, STATION 4, 16- ON LAT, 156-59W LENG, 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.OPTH.			
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.	10.27	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.	7.18	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									

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL 5, STATION 5, 14-30N LAT, 157- 0W LONG, JUNE 17, 1964, 2300 G.C.T.															
DRY BULB 26.6		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.OPTH.			
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.	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.	13.57	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.	7.28	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

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL 5, STATION 6, 13- ON 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.OPTH.			
0.	26.57	34.74			22.69	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			26.66	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 8T 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.	CHL.	PD4-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	34.56			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.	CHL.	PD4-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	136.6	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	69.4							
1485.	3.04	34.62			27.60	60.1							

TEMPERATURE LRRCR TEMP 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.	CHL.	PD4-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	34.54			22.55	532.1	20.	26.67	34.58	22.53	533.1	0.108
50. Δ	26.54	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	508.8	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.	20.84	34.82			24.41	356.9	150.	15.16	34.46	25.54	249.7	0.666
110.	20.04	34.84			24.65	336.0	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.	17.82	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.	8.99	34.60	26.83	130.3	1.088
150.	15.16	34.40			25.54	249.7	500.	7.71	34.54	26.98	117.5	1.213
230.	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
394.	8.96	34.60			26.83	130.5	1000.	4.44	34.55	27.40	78.7	1.697
500.	7.71	34.54			26.94	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	79.6						
1201.	3.64	34.58			27.51	68.3						
1500.	2.85	34.60			27.60	59.4						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 26.2		5, STATION WET BULB 22.8	9, 13-1N LAT, 154- 0W LONG, JUNE 20, 1964, 1000 G.C.T.	WIND SPEED 18, DIR. 05	BAR. 14	WEATHER 50	VIS. 7	CLOUD TYPE 6, COVER 6				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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	26.40	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 DRY BULB 25.7		5, STATION WET BULB 22.8	10, 14-30N LAT, 154- 0W LONG, JUNE 20, 1964, 1900 G.C.T.	WIND SPEED 14, DIR. 04	BAR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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	500.0	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.	9.49	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 DRY BULB 25.3		5, STATION WET BULB 22.8	11, 16-4N LAT, 154- 1W LONG, JUNE 21, 1964, 0600 G.C.T.	WIND SPEED 15, DIR. 02	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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
495.	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

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.OPTH.	
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. Δ	25.70	34.69			22.91	496.8	20.	25.81	34.69	22.88	499.7	0.100	
50. Δ	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 B, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.41	34.65			22.97	496.0	0.	25.41	34.65	22.97	496.0	0.000	
9.	25.35	34.64			22.98	489.3	10.	25.35	34.64	22.98	489.4	0.049	
30. Δ	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. 15		WEATHER 02		VIS. 7	CLOUD TYPE B, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
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. Δ	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							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 24.6		STATION 15, 21-58N LAT, 153-59W LONG, JUNE 22, 1964, 1900 G.C.T. WET BULB 21.7		WIND SPEED 18, DIR. 05		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 5	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
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.	22.59	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	34.55	25.55	251.9	0.875	
223.	17.42	34.79			25.27	278.1	300.	12.39	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.	6.94	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 DRY BULB 24.0		STATION 16, 23-32N LAT, 153-58W LONG, JUNE 23, 1964, 0400 G.C.T. WET BULB 21.0		WIND SPEED 16, DIR. 03		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
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 DRY BULB 22.8		STATION 17, 23-28N LAT, 150-58W LONG, JUNE 23, 1964, 2300 G.C.T. WET BULB 20.5		WIND SPEED 17, DIR. 09		BAR. 17		WEATHER 52		VIS. 7		CLOUD TYPE 9, COVER 6	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
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 DRY BULB 23.0		STATION 5, WET BULB 20.1		18, 22-24 LAT, 150-59W LONG, JUNE 24, 1964, 0800 G.C.T.		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			
20.	23.47	34.90			23.74	418.6	20.	24.30	34.80	23.42	448.1	0.091			
30.	22.30	35.10			24.23	373.0	30.	24.13	34.82	23.49	442.1	0.136			
40.	21.96	35.19			24.39	358.4	40.	23.55	34.89	23.71	421.3	0.223			
50.	21.24	35.14			24.55	344.8	50.	22.39	35.08	24.19	376.4	0.323			
60.	19.97	35.06			24.83	317.9	60.	21.99	35.19	24.38	359.2	0.416			
70.	19.07	35.02			25.04	299.3	70.	20.17	35.07	24.79	322.0	0.587			
80.	18.46	34.92			25.12	292.3	80.	18.21	34.89	25.15	288.8	0.741			
90.	16.64	34.70			25.39	267.0	90.	14.94	34.48	25.61	246.3	0.876			
100.	14.44	34.42			25.66	240.6	100.	11.97	34.17	25.97	211.4	0.992			
110.	12.81	34.24			25.86	221.9	110.	8.80	34.09	26.46	165.8	1.182			
120.	11.74	34.16			26.01	208.3	120.	6.55	34.08	26.77	135.3	1.334			
130.	6.61	34.09			26.49	162.7	130.	5.44	34.20	27.01	112.8	1.459			
140.	6.36	34.08			26.80	132.6	140.	5.00	34.33	27.17	98.8	1.566			
150.	5.37	34.22			27.04	110.6	150.	4.79	34.43	27.27	90.0	1.661			
160.	4.78	34.44			27.28	89.1	160.	4.21	34.50	27.39	79.6	1.833			
170.	4.16	34.50			27.39	79.0	170.	3.65	34.54	27.47	71.7	1.986			
180.	3.60	34.54			27.48	70.9	180.	2.88	34.59	27.59	60.7	2.188			
190.	2.83	34.59			27.60	60.0									

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA							
CROMWELL DRY BULB 24.2		STATION 5, WET BULB 21.3		19, 20-32N LAT, 150-56W LONG, JUNE 24, 1964, 1700 G.C.T.		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			
20.	24.21	34.68			23.34	456.4	20.	24.30	34.67	23.32	457.3	0.092			
30.	24.22	34.67			23.33	456.2	30.	24.28	34.68	23.34	456.4	0.138			
40.	23.60	34.68			23.54	438.9	40.	24.30	34.67	23.33	458.3	0.230			
50.	22.31	34.67			23.90	405.2	50.	23.60	34.68	23.60	438.9	0.343			
60.	21.92	34.90			24.18	379.0	60.	22.31	34.67	23.90	405.2	0.450			
70.	20.51	34.88			24.55	344.5	70.	20.51	34.88	24.55	344.5	0.639			
80.	19.00	34.86			24.93	309.0	80.	17.71	34.77	25.19	285.5	0.797			
90.	18.53	34.96			25.05	298.1	90.	13.64	34.30	25.74	233.1	0.928			
100.	16.02	34.56			25.42	263.1	100.	11.15	34.16	26.12	197.3	1.037			
110.	13.90	34.32			25.70	236.6	110.	7.94	34.17	26.65	146.7	1.210			
120.	12.45	34.22			25.92	216.3	120.	6.77	34.24	26.87	126.3	1.348			
130.	11.37	34.17			26.08	200.7	130.	5.40	34.24	27.05	109.1	1.467			
140.	8.08	34.16			26.62	149.2	140.	5.03	34.35	27.17	98.0	1.571			
150.	6.97	34.24			26.85	128.8	150.	4.94	34.45	27.27	90.0	1.667			
160.	5.48	34.23			27.03	110.9	160.	4.14	34.51	27.40	78.2	1.837			
170.	5.02	34.44			27.25	91.7	170.	3.55	34.54	27.49	70.2	1.987			
180.	4.23	34.50			27.39	79.4									
190.	3.64	34.53			27.47	71.7									
200.	3.03	34.56			27.55	64.3									

TEMPERATURE ERROR TERM AT 700. METERS IS 0.14

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA							
CROMWELL DRY BULB 24.8		STATION 5, WET BULB 21.6		20, 19- IN LAT, 151-2W LONG, JUNE 25, 1964, 0200 G.C.T.		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			
10.	24.90	34.76			23.21	467.5	10.	24.93	34.75	23.20	468.9	0.047			
20.	24.78	34.77			23.26	464.2	20.	24.96	34.74	23.18	470.9	0.095			
30.	23.56	34.96			23.76	416.5	30.	24.78	34.77	23.26	464.2	0.142			
40.	22.81	35.08			24.07	388.0	40.	23.33	35.00	23.86	407.6	0.229			
50.	22.43	35.11			24.20	376.4	50.	22.73	35.09	24.10	385.3	0.329			
60.	21.69	35.12			24.42	356.7	60.	22.23	35.12	24.26	370.8	0.425			
70.	20.61	35.10			24.69	330.8	70.	20.04	35.07	24.82	318.9	0.598			
80.	19.41	35.02			24.95	307.1	80.	17.10	34.72	25.30	274.9	0.748			
90.	18.74	34.94			25.06	296.9	90.	13.20	34.25	25.79	227.8	0.875			
100.	16.49	34.64			25.38	267.3	100.	9.85	34.10	26.30	179.5	0.977			
110.	14.37	34.36			25.63	242.9	110.	7.99	34.22	26.68	143.9	1.141			
120.	12.71	34.22			25.87	220.9	120.	6.40	34.29	26.96	117.1	1.272			
130.	10.78	34.12			26.15	193.6	130.	6.00	34.39	27.13	102.3	1.383			
140.	8.57	34.20			26.58	153.4	140.	5.13	34.44	27.24	92.1	1.481			
150.	6.73	34.26			26.89	123.7	150.	4.69	34.48	27.32	85.3	1.571			
160.	5.95	34.36			27.07	107.1	160.	4.08	34.53	27.42	75.8	1.734			
170.	4.89	34.46			27.28	88.3	170.	3.56	34.56	27.51	68.5	1.880			
180.	4.23	34.51			27.39	78.4									
190.	3.78	34.56			27.48	70.9									
200.	3.07	34.58			27.57	63.0									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.28

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA							
CROWWELL		5, STATION		21, 17-31N LAT, 150-57W LENG, JUNE 25, 1964, 1200 G.C.T.											
DRY BULB 24.5		WET BULB 21.8		WIND SPEED 17, DIR. 09		8AR. 14		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	CXY.	PD4-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.	22.90	34.90			23.88	407.2	75.	23.9R	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	34.42			24.54	345.8	150.	20.84	34.93	24.51	348.9	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									

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA							
CROWWELL		5, STATION		22, 15-59N LAT, 151-3W LENG, JUNE 25, 1964, 2100 G.C.T.											
DRY BULB 25.8		WET BULB 22.8		WIND SPEED 22, DIR. 07		8AR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 5			
DEPTH	TEMP.	SAL.	OXY.	PD4-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	23.69	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									

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA							
CROWWELL		5, STATION		23, 14-28N LAT, 151-3W LENG, JUNE 26, 1964, 0600 G.C.T.											
DRY BULB 25.6		WET BULB 22.8		WIND SPEED 21, DIR. 07		8AR. 13		WEATHER 01		VIS. 7		CLOUD TYPE 3, COVER 3			
DEPTH	TEMP.	SAL.	CXY.	PD4-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	23.64	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									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 25.3		5, STATION WET BULB 22.6		24, 13- ON LAT, 150-57M LCNG, JUNE 26, 1964, 1500 C.C.T.		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							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 26.4		5, STATION WET BULB 22.9		25, 11-30N LAT, 151- 0W LCNG, JUNE 26, 1964, 2400 C.C.T.		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.Δ	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							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 25.8		5, STATION WET BULB 23.9		26, 10- 4N LAT, 148- 3W LCNG, JUNE 27, 1964, 1900 C.C.T.		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

ΔFROM 8T DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL STATION 27, 11-32N LAT, 148-3W LONG, JUNE 28, 1964, 0600 G.C.T.		WET BULB 26.8		WIND SPEED 17, DIR. 11		BAR. 13		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
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.	26.60	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.	25.15	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			25.3P	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 STATION 29, 12-57N LAT, 147-58W LONG, JUNE 28, 1964, 1600 G.C.T.		WET BULB 25.3		WIND SPEED 22, DIR. 09		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
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.	10.88	34.68			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.	3.18	34.62			27.59	61.8							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.11

CROMWELL STATION 29, 14-32N LAT, 148-0W LONG, JUNE 29, 1964, 0200 G.C.T.		WET BULB 25.3		WIND SPEED 19, DIR. 06		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-OPTH.	
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							

ΔFROM 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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.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			26.45	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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.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- CW 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.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.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						

FROM ST DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 24.0	5, STATION WET BULB 20.0	33, 20-32N LAT, 148-1W LONG, JUN 30, 1964,	1600 G.C.T.	WIND SPEED 18, DIR. 04	BAR. 19	WEATHER 01	VIS. 9	CLOUD TYPE 4, COVER 3				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
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.	24.22	34.75			23.41	449.2	20.	24.22	34.75	23.41	449.2	0.090
30.	24.23	34.75			23.41	449.9	30.	24.23	34.75	23.41	449.9	0.136
49.	23.16	35.04			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	288.7	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						

CROMWELL DRY BULB 23.4	5, STATION WET BULB 20.0	34, 21-59N LAT, 147-57W LONG, JULY 1, 1964,	0200 G.C.T.	WIND SPEED 18, DIR. 05	BAR. 19	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.97	34.86			23.58	432.0	0.	23.97	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.	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						

CROMWELL DRY BULB 22.6	5, STATION WET BULB 18.9	35, 23-28N LAT, 147-56W LONG, JULY 1, 1964,	1200 G.C.T.	WIND SPEED 17, DIR. 05	BAR. 20	WEATHER 01	VIS. 8	CLOUD TYPE 6, COVER 4				
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
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.	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	40.	23.12	35.22	24.08	386.1	0.196
96.	20.96	35.25			24.71	327.4	50.	21.44	35.28	24.60	337.2	0.288
121.	20.32	35.22			24.86	314.0	75.	20.87	35.25	24.74	325.3	0.371
146.	19.32	35.06			25.00	301.4	100.	19.18	35.04	25.02	299.7	0.529
169.	18.46	34.93			25.12	290.7	150.	16.65	34.68	25.37	267.4	0.671
183.	17.71	34.82			25.22	281.4	200.	13.21	34.28	25.81	226.1	0.796
216.	15.54	34.55			25.52	253.2	250.	11.24	34.14	26.08	200.4	0.903
242.	13.63	34.32			25.76	231.1	300.	8.46	34.03	26.47	164.4	1.087
266.	12.51	34.22			25.90	217.3	400.	6.36	34.05	26.78	134.7	1.239
291.	11.54	34.16			26.04	204.4	500.	5.24	34.14	26.99	114.7	1.364
387.	8.80	34.04			26.42	169.0	600.	4.68	34.26	27.15	100.1	1.473
485.	6.60	34.04			26.74	138.4	700.	4.40	34.37	27.27	89.2	1.569
582.	5.38	34.12			26.96	117.8	800.	3.93	34.51	27.43	75.4	1.735
776.	4.47	34.35			27.24	91.6	900.	3.48	34.57	27.52	67.0	1.879
970.	4.00	34.50			27.41	76.6	1000.					
1165.	3.58	34.54			27.48	70.2						
1454.	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						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
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.	16.86	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						

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 5, STATION 38, 25- ON LAT, 151- 0W 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. ^Δ	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						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 39, 24-58N LAT, 154-04W 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.	P04-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.	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.	18.47	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	26.38	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.	2.87	34.58			27.59	60.2						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
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.	P04-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.	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	35.08	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.	18.2R	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
496.	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	65.8	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						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
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.	P04-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.	20.7R	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.			8AR. 19 WFAATHER 02 VIS. 7 CLOUD TYPE , COVER									
DRY BULB 23.8	WET BULB 21.7											
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.52	34.86			23.4C	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			23.4C	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

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 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
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	34.75			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	
188.	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	111.6	1.538	
496.	6.72	34.15			26.81	132.4	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							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
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.OPTH.	
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	1.748	
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							

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION		3, 17-30N LAT, 157-0W 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 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
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	23.98	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	34.49			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, 156-59W LCNG, 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. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.69	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. ^Δ	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	193.8	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	1.469	
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	76.6	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, 156-59W LCNG, JULY 15, 1964, 2200 G.C.T.													
DRY BULB 25.9		WET BULB 23.1		WIND SPEED 19, DIR. C7		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			26.62	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, 157-2W LCNG, 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.	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	34.82	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							

AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 26.0		6, STATION WET BULB 23.5		7, 11-31N LAT, 157- 1W LENG, JULY 16, 1964, 1600 G.C.T.		16, 1964, 1600 G.C.T.		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-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.	26.60	34.65			22.60	526.6	20.	26.61	34.64	22.60	526.8	0.108	
49.	26.57	34.66			22.64	524.2	30.	26.60	34.65	22.60	526.6	0.159	
75.	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.	8.7C	34.61			26.8E	125.7	800.	5.34	34.54	27.29	88.7	1.436	
502.	7.69	34.56			26.99	115.8	1000.	4.42	34.55	27.41	78.3	1.605	
602.	6.68	34.53			27.11	105.0	1200.	3.67	34.58	27.51	68.7	1.754	
802.	5.33	34.54			27.29	88.6	1500.	2.89	34.61	27.61	59.2	1.948	
1002.	4.41	34.55			27.41	78.3							
1200.	3.67	34.58			27.51	68.7							
1501.	2.89	34.61			27.61	59.2							

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 26.0		6, STATION WET BULB 23.9		7A, 10- ON LAT, 153-58W LENG, JULY 17, 1964, 1100 G.C.T.		16, 1964, 1100 G.C.T.		WEATHER 02		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PC4-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.	26.70	33.76			21.9C	593.2	20.	26.70	33.76	21.90	593.2	0.119	
30.	26.66	33.78			21.93	591.0	30.	26.66	33.78	21.93	591.0	0.179	
40.	20.38	34.47	4.67	0.67	24.28	366.9	50.	15.60	34.43	25.42	258.3	0.265	
50.	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	26.16	188.0	200.	10.28	34.70	26.69	141.0	0.521	
89.	11.54	34.46	1.43	2.09	26.2E	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.	10.7F	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	34.68F	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	26.7E	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	26.8E	124.8	1000.	4.46	34.57	27.42	77.5	1.377	
461.	8.03	34.60	0.44	2.97	26.9E	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 DRY BULB 26.9		6, STATION WET BULB 23.9		8, 11-33N LAT, 154- 0W LENG, JULY 17, 1964, 2000 G.C.T.		16, 1964, 2000 G.C.T.		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	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.	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	22.8C	508.5	30.	27.00	34.13	22.08	576.1	0.174	
60.	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	384.5	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	
176.	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	27.0C	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	27.2E	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		8AR. 13		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
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	22.6E	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		8AR. 13		WEATHER 02		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
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		8AR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
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	1.053			
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	2.68	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									

ΔFROM BT DATA
*INTERPOLATED DATA
**EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 12, 17-30N LAT, 153-59W LCMG, 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.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.
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.Δ	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						

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.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.
0.	25.04	34.88	4.45	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.Δ	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	4.33	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.	17.55	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	4.74	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
376.	8.13	34.04	3.70	1.91	26.55	155.9	700.	5.35	34.40	27.18	98.1	1.602
476.	6.96	34.24	1.35	2.39	26.85	128.7	800.	4.82	34.46	27.29	87.9	1.696
506.	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	1.76	2.78	27.50	68.5						
1500.	2.78	34.60	1.58	2.58	27.61	58.6						

CROMWELL 6, STATION 14, 20-28N LAT, 154-2W LCMG, 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.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.
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.Δ	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						

ΔFROM 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.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.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	
30.6	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	35.08	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	25.53	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	34.38	27.26	89.9	1.731	
585.	5.70	34.12	1.48	2.55	26.92	121.9	1000.	3.95	34.48	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, 153-55W 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.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	24.80	34.87	5.24	0.23	23.32	458.4	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	
30.Δ	24.82	34.88			23.33	457.4	20.	24.82	34.88	23.33	457.0	0.092	
50.Δ	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	248.8	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	0.90	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	86.6	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.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.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	
30.Δ	24.46	34.93			23.47	443.5	20.	24.47	34.93	23.47	443.3	0.089	
50.Δ	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			26.88	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							

AFROM ST 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 LCNG, JULY 22, 1964, BAR. 16	0200 G.C.T. WEATHER 01	VIS. 7	CLOUD TYPE 6,	COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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			24.65	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	34.75			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						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 24.0		6, STATION WET BULB 22.5	19, 20-27N LAT, 150-59W WIND SPEED 07, DIR. 07	LCNG, JULY 22, 1964, BAR. 17	1000 G.C.T. WEATHER 01	VIS. 5	CLOUD TYPE 8,	COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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			25.25	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						

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 24.8		6, STATION WET BULB 23.2	20, 18-58N LAT, 150-59W WIND SPEED 07, DIR. 01	LCNG, JULY 22, 1964, BAR. 15	1900 G.C.T. WEATHER 15	VIS. 7	CLOUD TYPE 8,	COVER 4				
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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	34.41			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						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.7		6, STATION WET BULB 23.1		21, 17-26M LAT, 151- WIND SPEED 07, DIR. 05		1M LCNG, JULY 23, 1964, BAR. 14		0500 G.C.T. WEATHER 01		VIS. 8	CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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	79.8	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 DRY BULB 25.8		6, STATION WET BULB 22.9		22, 15-59M LAT, 150-59M WIND SPEED 14, DIR. 11		LCNG, JULY 23, 1964, BAR. 13		1400 G.C.T. WEATHER 01		VIS. 7	CLOUD TYPE 4, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
C.	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
575.	6.41	34.46			27.05	106.1	ECC.	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 DRY BULB 26.2		6, STATION WET BULB 23.1		23, 14-28M LAT, 150-59M WIND SPEED 08, DIR. 09		LCNG, JULY 23, 1964, BAR. 15		2200 G.C.T. WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
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			26.95	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						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 24, 13-2N LAT, 151-4W LONG, JULY 24, 1964, 0700 G.C.T.													
DRY BULB	26.5	WET BULB	24.0	WIND SPEED	13, DIR. 07	BAR.	14	WEATHER	02	VIS.	8	CLOUD TYPE	6, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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	25.83	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			26.86	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	116.8	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.	3.83	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

CROMWELL 6, STATION 25, 11-30N LAT, 151-0W LONG, JULY 24, 1964, 1600 G.C.T.													
DRY BULB	26.6	WET BULB	24.6	WIND SPEED	17, DIR. 05	BAR.	13	WEATHER	03	VIS.	7	CLOUD TYPE	8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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	34.87	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	34.58	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							

CROMWELL 6, STATION 26, 9-58N LAT, 147-58W LONG, JULY 25, 1964, 1100 G.C.T.													
DRY BULB	25.4	WET BULB	24.0	WIND SPEED	12, DIR. 16	BAR.	15	WEATHER	15	VIS.	7	CLOUD TYPE	6, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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.	25.31	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.	16.34	34.43	25.21	280.3	0.484	
126.	13.09	34.82	0.88	1.88	26.10	195.5	150.	11.78	34.70	26.41	186.0	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	104.6	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					
CROMWELL 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.	CXY.	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	363.4	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	
363.	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	2.60	27.47	71.7							
1285.	3.28	34.60	1.66	2.65	27.56	63.1							

CROMWELL 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.	CXY.	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	
9.	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	22.89	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	146.8	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

CROMWELL 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.	CXY.	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	0.667	
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							

6FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 30, 15-59N LAT, 147-58W LONG, JULY 27, 1964, CCGO G.C.T.												
CRY BULB 25.6	WET BULB 21.5	WIND SPEED 16,	CIR. C5	BAR. 14	WEATHER 01	VIS. 8	CLOUD TYPE 6,	COVER 2				
DEPTH	TEMP.	SAL.	OXY.	PC4-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	1C.	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	3C.	25.76	34.53	22.78	509.9	0.155
117.	22.32	34.56	5.34	0.45	23.81	414.0	5C.	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	0.58	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, ICCO G.C.T.												
CRY BULB 24.5	WET BULB 21.2	WIND SPEED 20,	CIR. C5	BAR. 16	WEATHER 03	VIS.	CLOUD TYPE ,	COVER 7				
DEPTH	TEMP.	SAL.	OXY.	PC4-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	1C.	25.27	34.62	22.99	488.4	0.049
50. ^Δ	25.00	34.64				23.09	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	C.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	C.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	C.42	2.66	27.07	109.2	800.	5.36	34.49	27.25	92.8	1.624
803.	5.35	34.49	C.73	2.54	27.25	92.6	1000.	4.47	34.51	27.37	82.0	1.801
1004.	4.46	34.51	C.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	2.93	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- CW LONG, JULY 27, 1964, 18CO G.C.T.												
CRY BULB 25.2	WET BULB 22.2	WIND SPEED 20,	CIR. C5	BAR. 15	WEATHER 01	VIS. 8	CLOUD TYPE 8,	COVER 4				
DEPTH	TEMP.	SAL.	OXY.	PC4-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	1C.	25.28	34.67	23.03	485.1	0.049
30. ^Δ	25.28	34.68				23.04	20.	25.29	34.67	23.03	485.3	0.098
50. ^Δ	25.24	34.68				23.05	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	1.465
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	C.88	2.77	26.97	117.0	800.	4.77	34.47	27.30	86.7	1.655
603.	5.67	34.38	C.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						

ΔFROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 33, 20-30N LAT, 147-58W LENG, JULY 28, 1964, 0300 G.C.T.													
DRY BULB 25.6		WET BULB 21.1		WIND SPEED 23, DIR. C6		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH	
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		23.29	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	333.0	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	0.95	25.62	263.3	400.	7.86	34.08	26.59	152.0	1.140	
246.	13.73	34.33	4.67	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	1.50	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	2.61	27.48	70.6							
1459.	2.86	34.58	1.63	2.95	27.58	60.8							

CROMWELL 6, STATION 34, 22- IN LAT, 147-57W LENG, 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.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH	
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.	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	0.64	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	1.769	
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	34.45	1.14	2.55	27.35	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 LENG, 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.	CHL.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH	
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.	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.	12.74	34.22	4.92	0.64	25.87	221.1	500.	6.45	34.06	26.77	135.2	1.280	
301.	11.74	34.14	4.86	0.67	25.95	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	1.513	
501.	6.44	34.06	2.19	1.98	26.78	135.0	800.	4.36	34.36	27.26	89.8	1.616	
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	34.46	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							

FROM 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.												
CRY 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.OPTH.
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	0.064
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	25.12	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	34.08	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	142.8	1.284
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	1.60	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	66.6	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.												
CRY 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.OPTH.
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.	18.43	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	0.64	25.74	233.2	300.	11.96	34.22	26.01	206.1	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	27.15	96.9	1000.	3.89	34.44	27.38	79.6	1.778
995.	3.90	34.44	0.80	3.06	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.												
CRY 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.OPTH.
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			24.69	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	24.69	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.	19.64	35.19	25.02	300.2	0.534
177.	18.23	34.94			25.19	284.7	200.	18.75	34.89	25.36	288.9	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	183.7	1.099
278.	12.27	34.20			25.94	214.5	500.	6.61	34.02	26.72	140.3	1.293
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	183.4	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- 1W LCNG, JULY 31, 1964, 0600 G.C.T.													
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 20, DIR. C7		BAR. 20		WEATHER 03		VIS. 6		CLCUC TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PCA-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
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.	5.95	34.08	1.61	2.22	26.90	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	2.65	27.42	75.7	1200.	3.32	34.53	27.50	68.2	2.006	
1211.	3.29	34.53	1.49	3.22	27.50	67.9							
1466.	2.77	34.57	1.75	2.28	27.58	60.5							

CROMWELL 6, STATION 40, 25- ON LAT, 157- 0W LCNG, JULY 31, 1964, 2100 G.C.T.													
DRY BULB 25.5		WET BULB 22.1		WIND SPEED 14, DIR. C7		BAR. 20		WEATHER 03		VIS. 8		CLCUC TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PCA-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.79	35.10			23.50	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	
190.	18.47	34.90			25.10	293.8	250.	14.84	34.49	25.63	244.0	0.880	
225.	16.37	34.63			25.40	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			25.80	228.2	500.	7.26	34.07	26.67	145.6	1.350	
302.	12.10	34.24			26.00	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			26.68	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			27.40	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- 1W LCNG, AUG. 1, 1964, 0600 G.C.T.													
DRY BULB 25.0		WET BULB 21.2		WIND SPEED 18, DIR. 07		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PCA-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.62	34.90			23.10	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			23.10	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	
287.	12.84	34.26			25.87	221.2	500.	6.92	34.02	26.68	144.7	1.412	
445.	7.97	34.02			26.53	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

Table 3.--Continued

ORIGINAL DATA			DERIVED DATA			INTERPOLATED DATA							
CROMWELL 6, STATION 42, 22- ON LAT, 156-58W 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 8, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	PG4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
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	0.988	
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 BT DATA
*INTERPOLATED DATA

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