

The Trade Wind Zone Oceanography Pilot Study
Part V: Townsend Cromwell Cruises 14 and 15
March and April 1965

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



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

UNITED STATES DEPARTMENT OF THE INTERIOR

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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	3

FIGURES

1. Track chart for <u>Townsend Cromwell</u> cruises 14 and 15. 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 14 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 14 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 14 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 14 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 14 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 14 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 15 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 15 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 15 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 15 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 15 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 15 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 temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for <u>Townsend Cromwell</u> cruise 14_____	18
15. Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for <u>Townsend Cromwell</u> cruise 15_____	19
16. Surface salinity distribution ($^{\circ}$ /oo) from intake salinity samples at each BT cast for <u>Townsend Cromwell</u> cruise 14_____	20
17. Surface salinity distribution ($^{\circ}$ /oo) from intake salinity samples at each BT cast for <u>Townsend Cromwell</u> cruise 15_____	21
18. Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 14_____	22
19. Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 15_____	23

TABLES

1. Original and derived oceanographic data for <u>Townsend Cromwell</u> cruise 14_____	25
2. Original and derived oceanographic data for <u>Townsend Cromwell</u> cruise 15_____	40

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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 fifth set of two cruises, Townsend Cromwell cruises 14 and 15, March and April 1965, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the fifth 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

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.

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 14th and 15th cruises in the series. Figure 1 shows the cruise track for the two cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

Both 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 14:
March 8 to 28, 1965

Bernard M. Ito - HL - Field Party Chief
Jerome S. W. Marr - HL
John L. Matthews - HL
Robert M. Moncrief - HL
James H. Uchiyama - HL

Dayle N. Husted - Smithsonian Institution
Townsend Cromwell, cruise 15:
April 7 to 30, 1965

Robert L. Charnell - HL - Field Party Chief
Barbara E. Boldt - HL
David Y. Hashimoto - HL
John L. Matthews - HL
Lloyd T. Watarai - HL
Vincent Hoeman - Smithsonian Institution
Warren King - Smithsonian Institution

Current

Eight drift bottles, supplemented by plastic-enclosed drift cards (Barkley, Ito, and Brown, 1964) during the first and last days of each cruise, were released at each BT cast. Two current stations were occupied each cruise; both Ekman and Roberts current meters were used.

OBSERVATIONS ^{1/}

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

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

Biological

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

Meteorological

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

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

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

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to ±0.02° C. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ±10 m. down to 1,000 m. and within ±1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all 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 pro-

gram provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface intake values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. Variations were large, however, and the root mean square value computed from the above differences was as much as 0.53° C. The bucket salinity values also showed large variations and were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.01 ‰ and the root mean square value was within 0.20 ‰ for each cruise.

PRESENTATION OF DATA

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

Tables 1 and 2 contain the oceanographic station data for cruises 14 and 15, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for

salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 8, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 14 and figures 8 through 13 for cruise 15.

The surface temperature distributions, based on intake temperature at each BT cast, are shown in figures 14 and 15 for cruises 14 and 15, respectively.

The surface salinity distributions, based on intake salinity samples at each BT cast, are shown in figures 16 and 17 for cruises 14 and 15, respectively.

The dynamic topography, relative to 1,200 m. for cruises 14 and 15, is shown in figures 18 and 19, respectively.

ACKNOWLEDGMENTS

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

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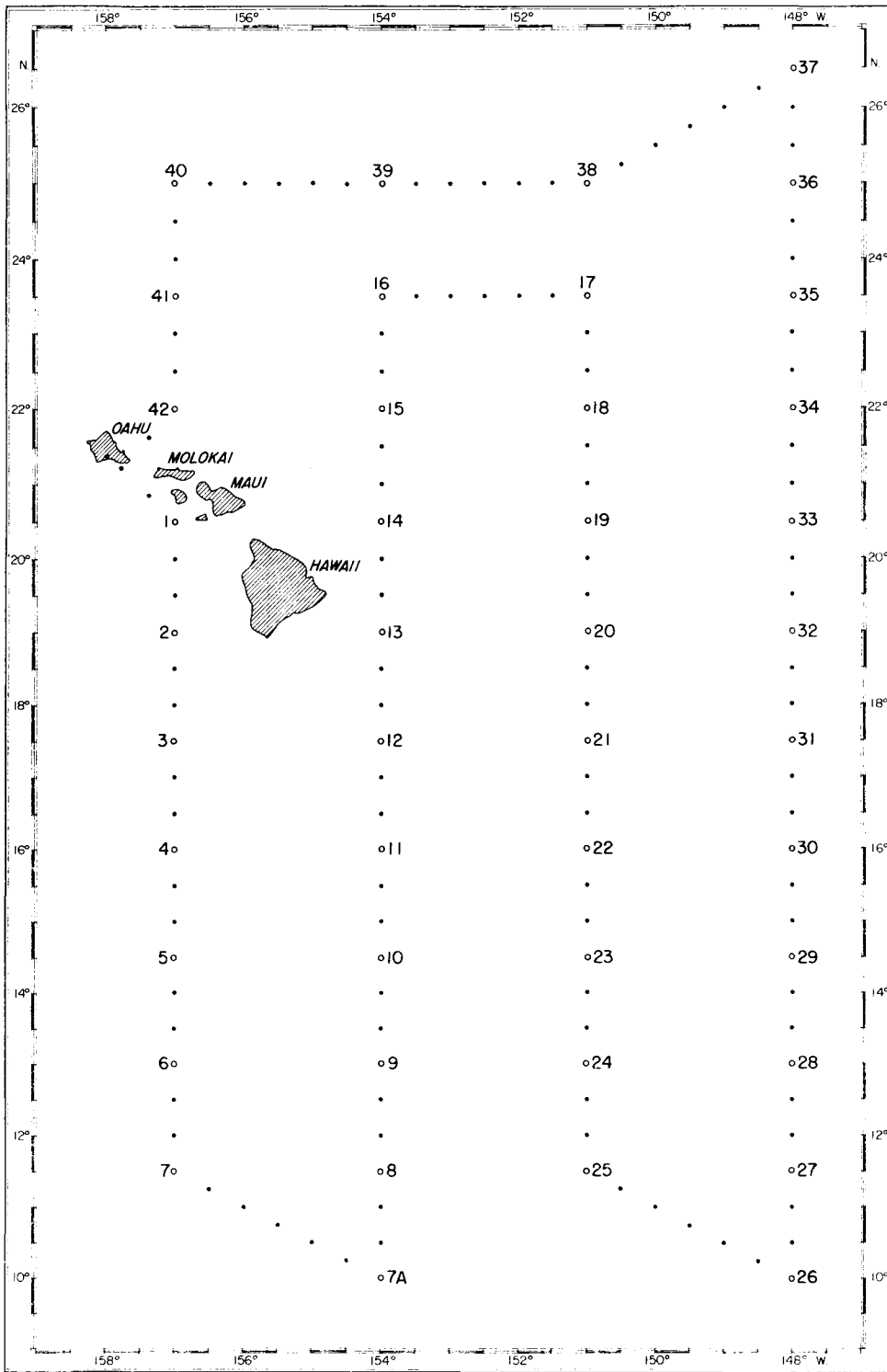


Figure 1.--Track chart for Townsend Cromwell cruises 14 and 15. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

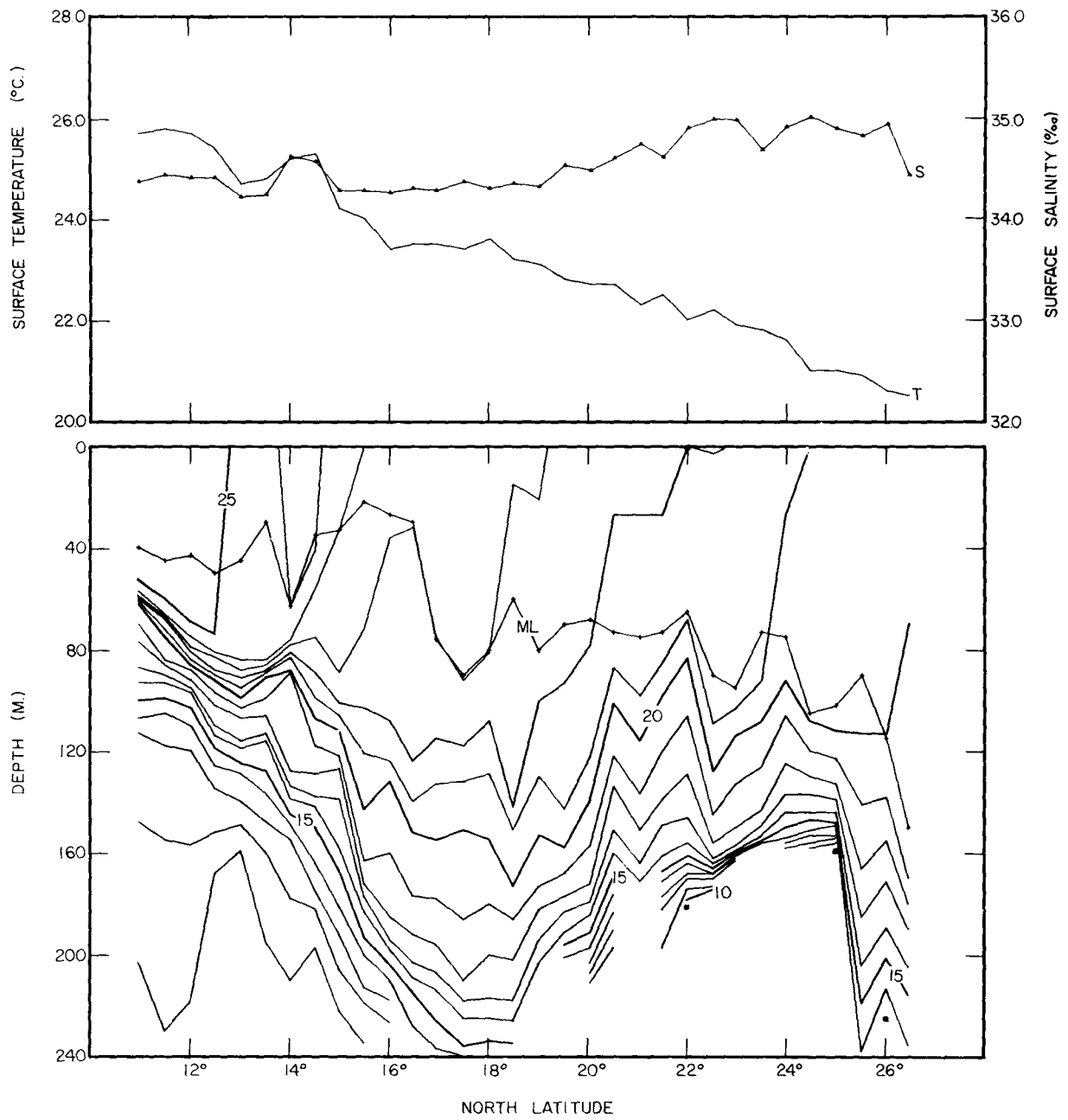


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

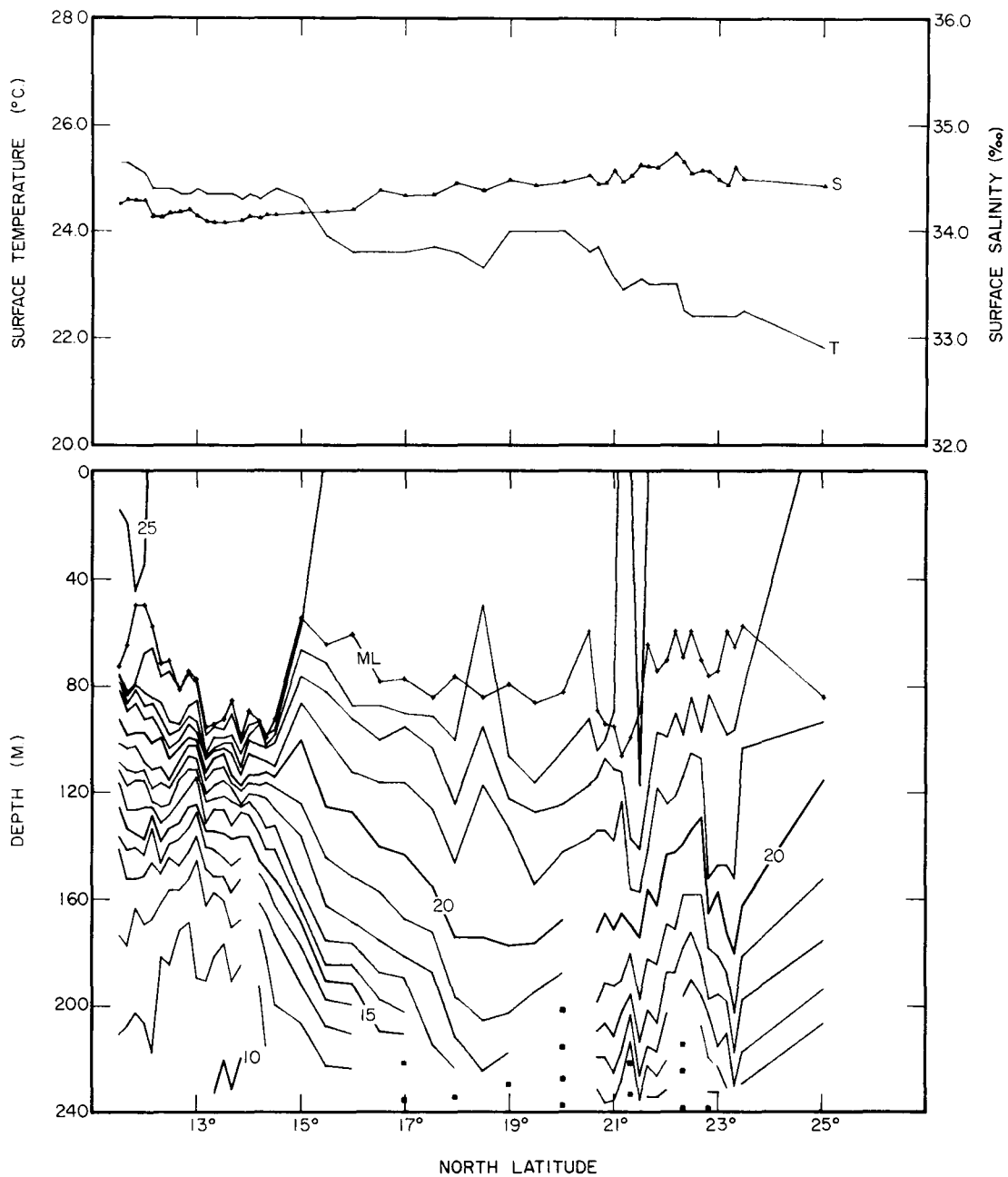


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

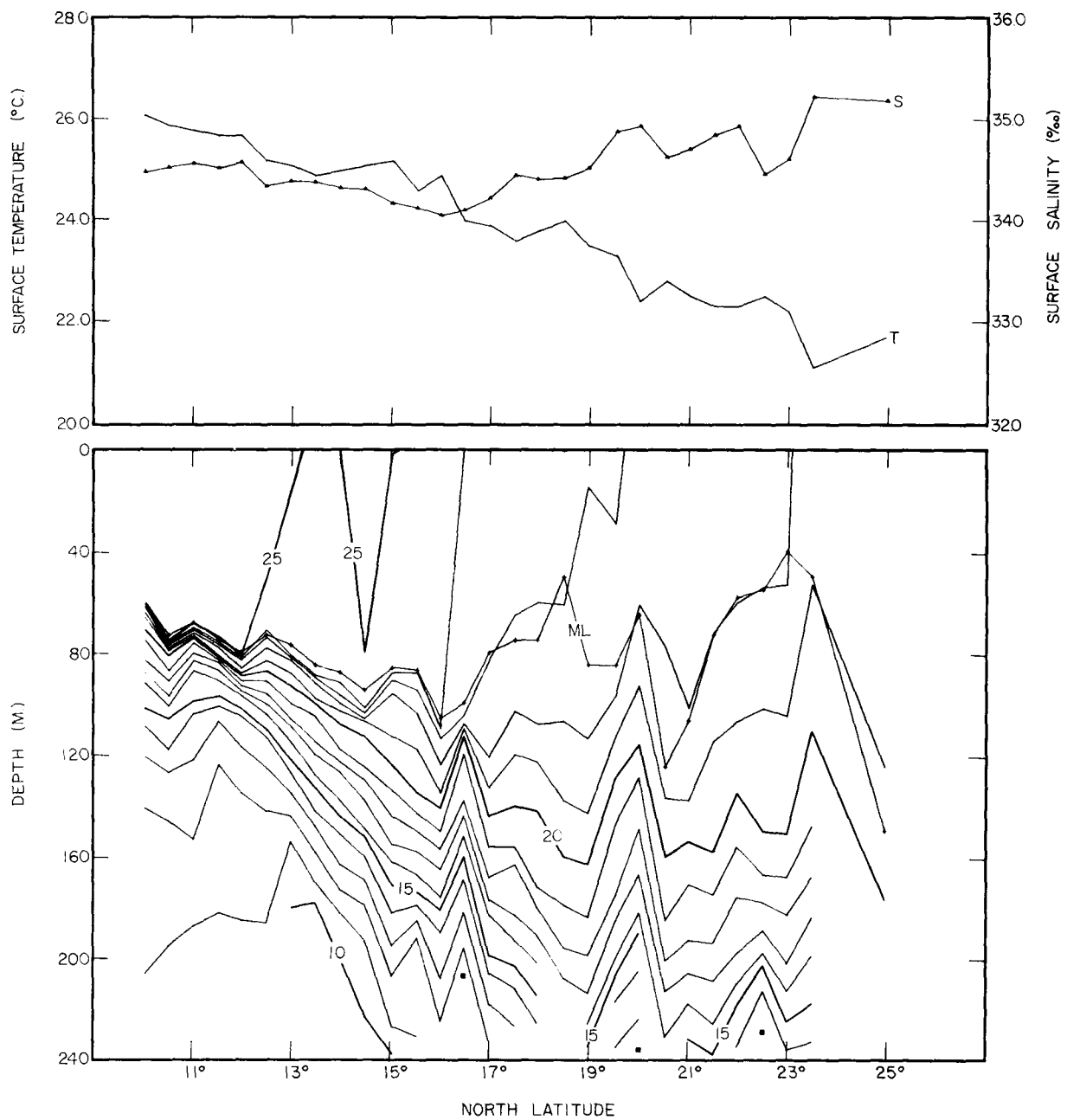


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

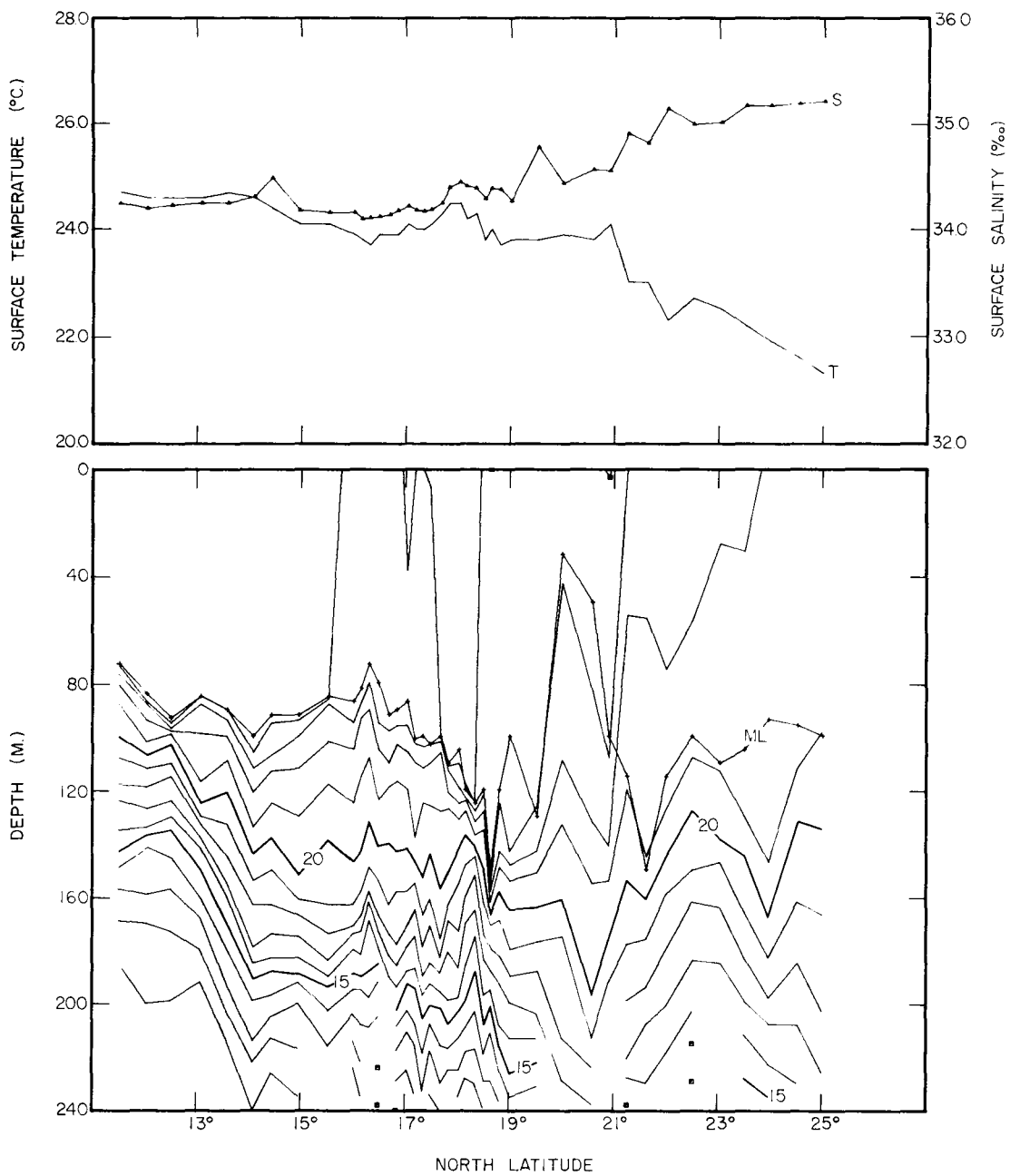


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

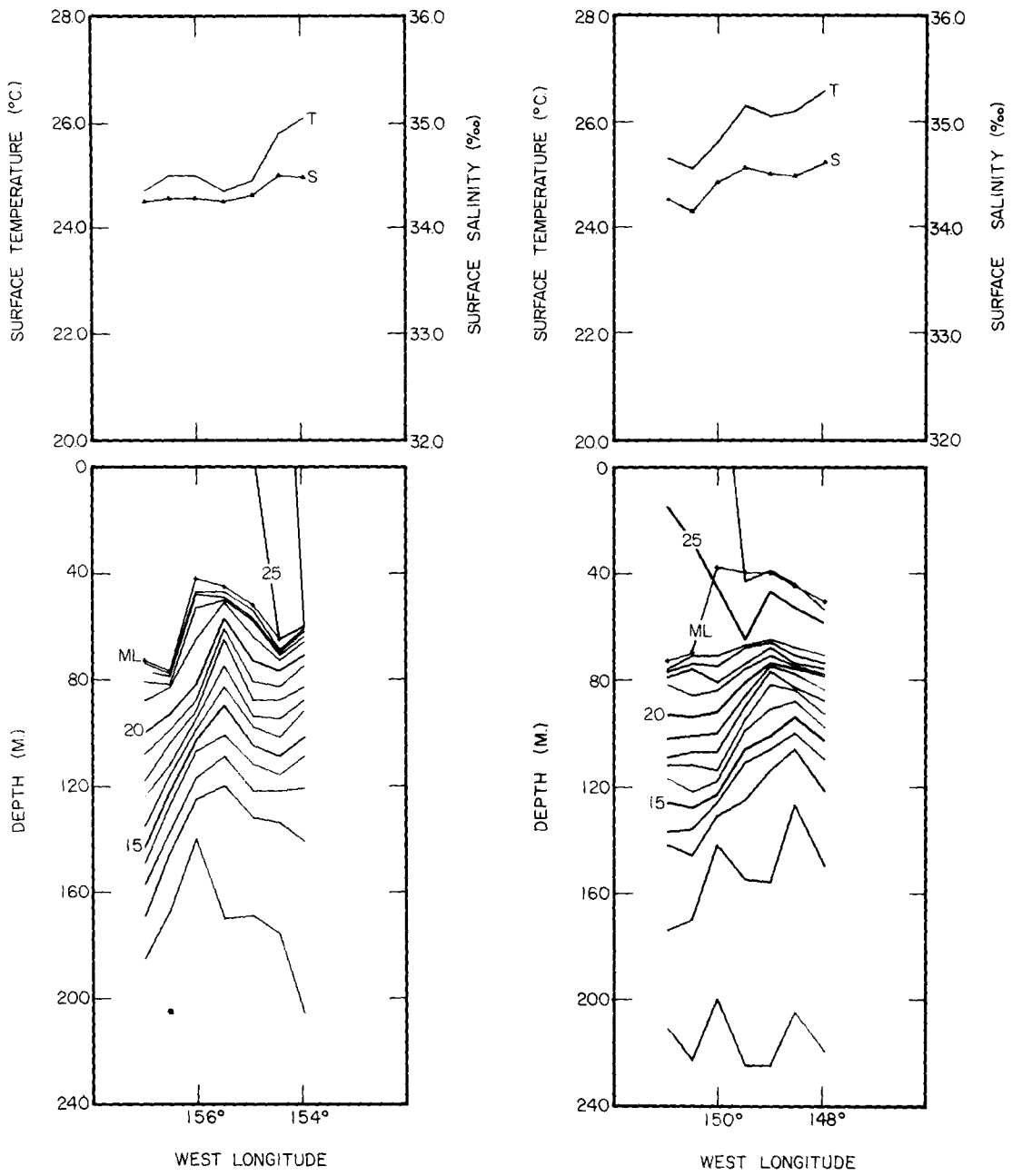


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities (‰) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

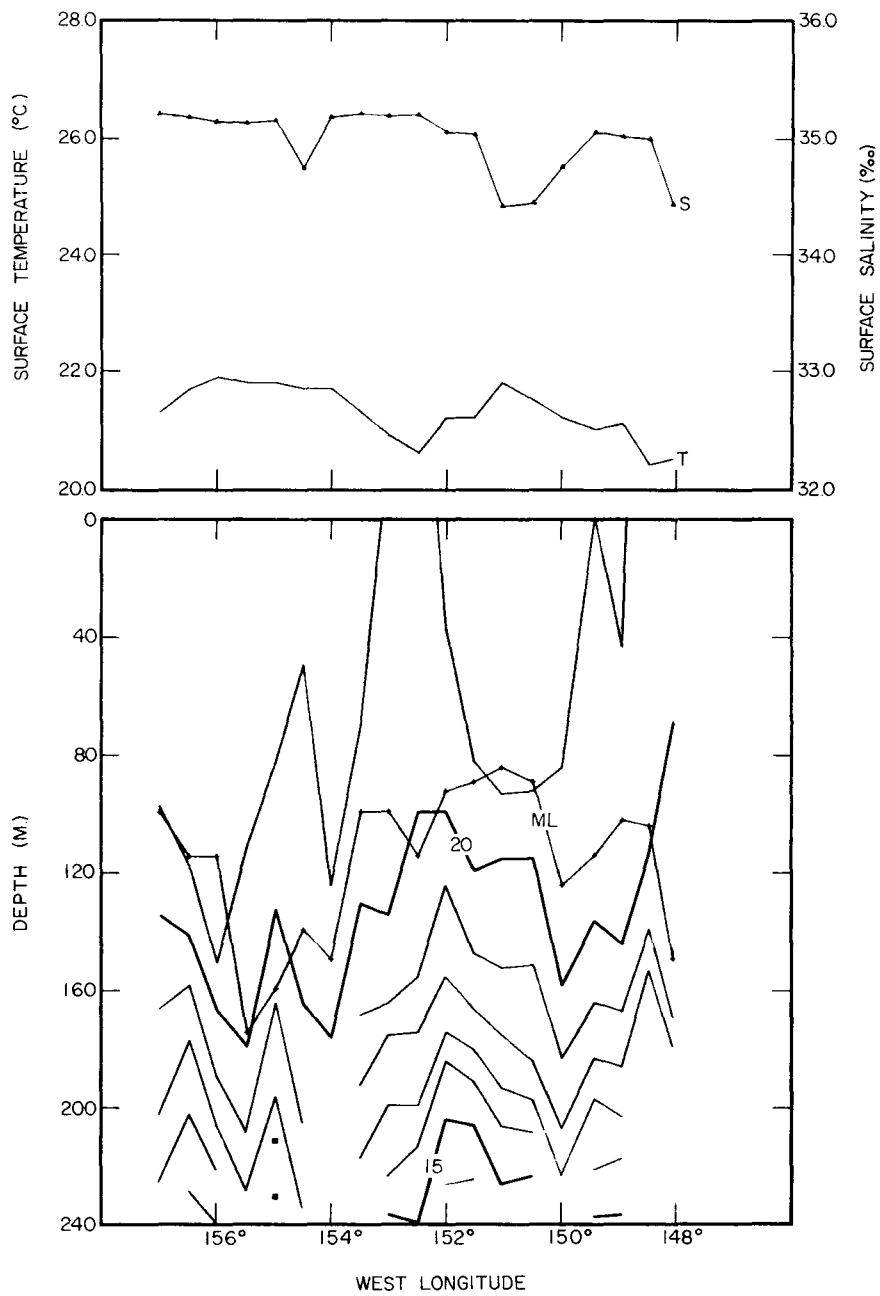


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 14 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

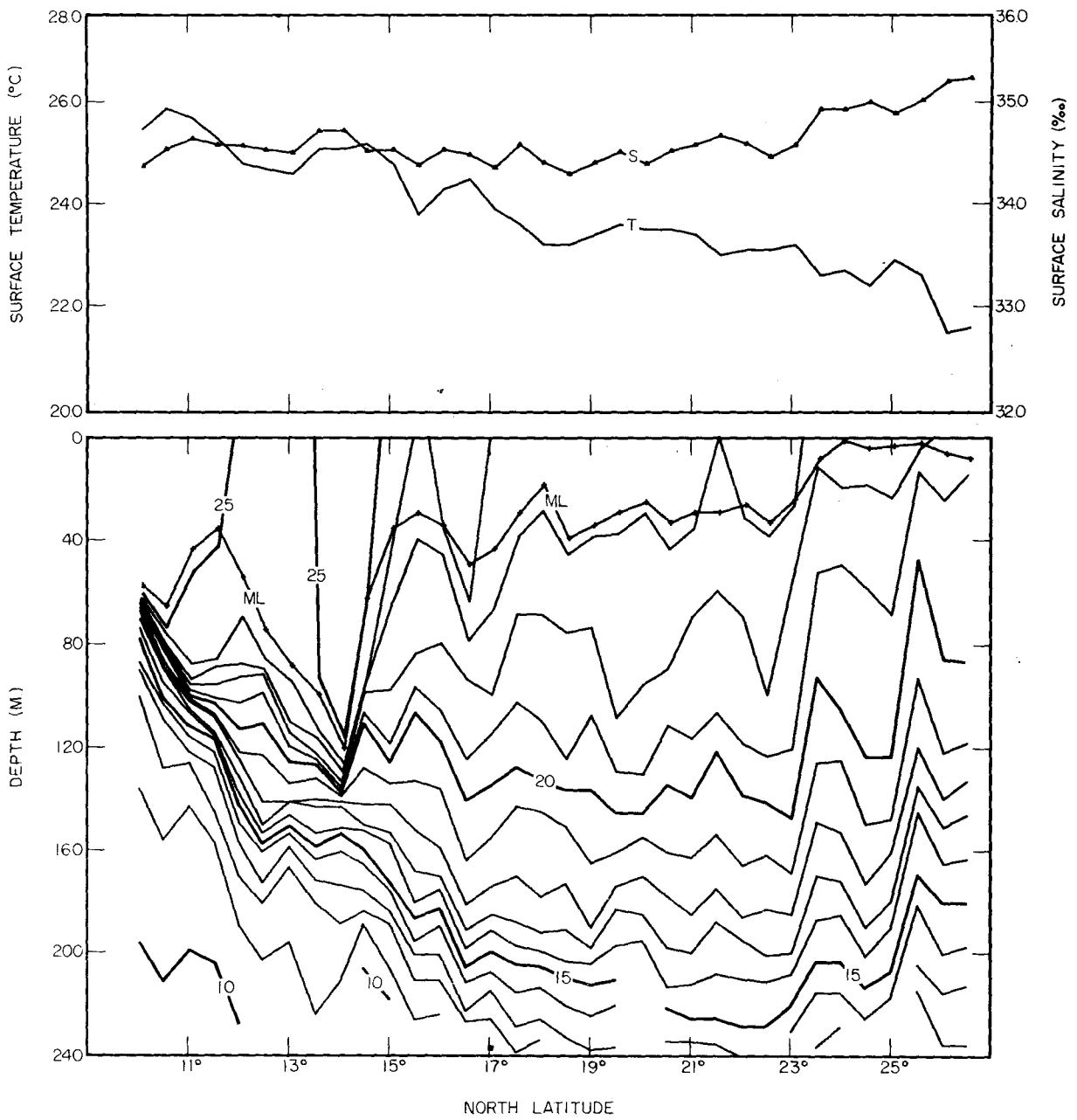


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 15 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

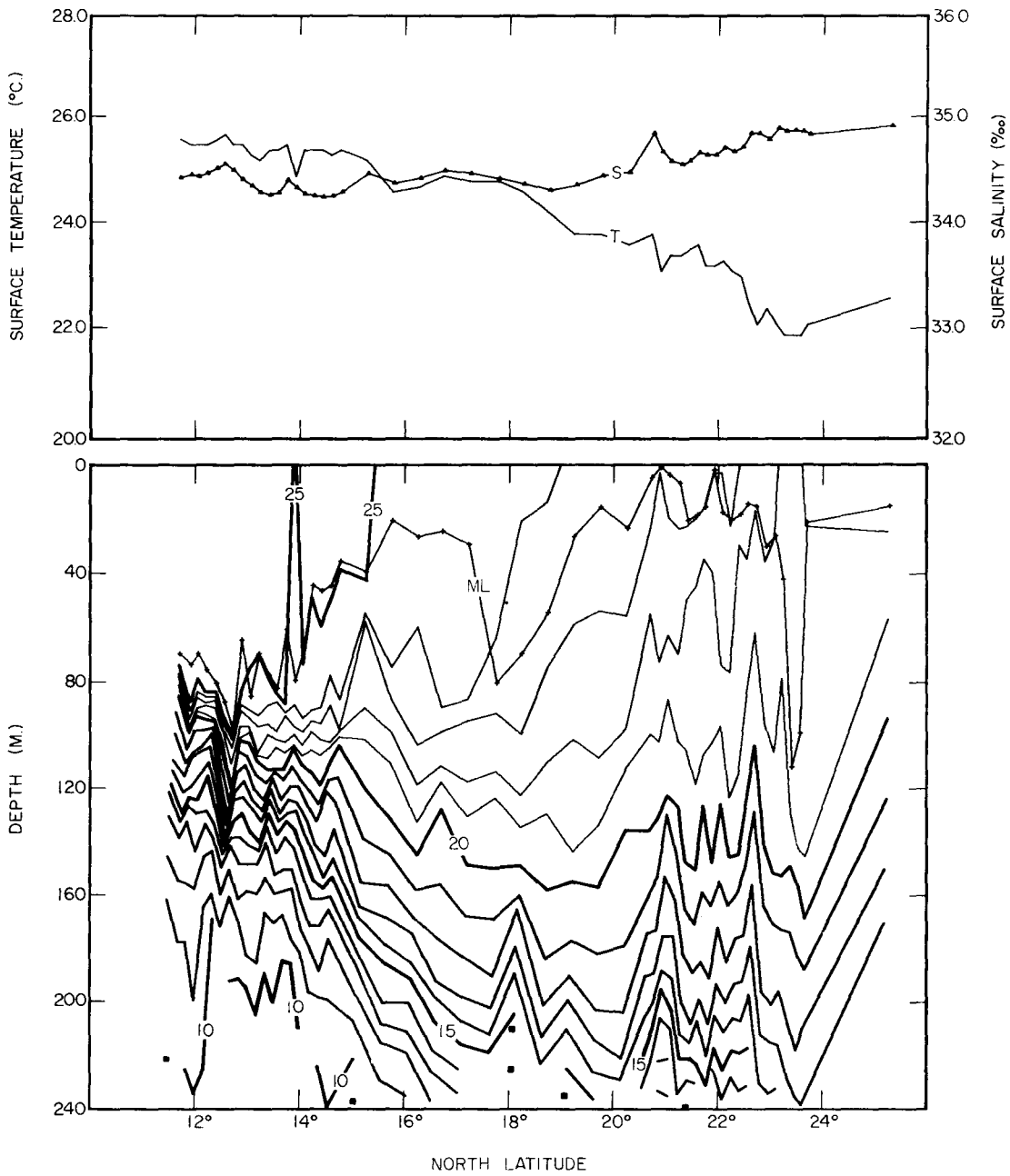


Figure 9.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 15 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

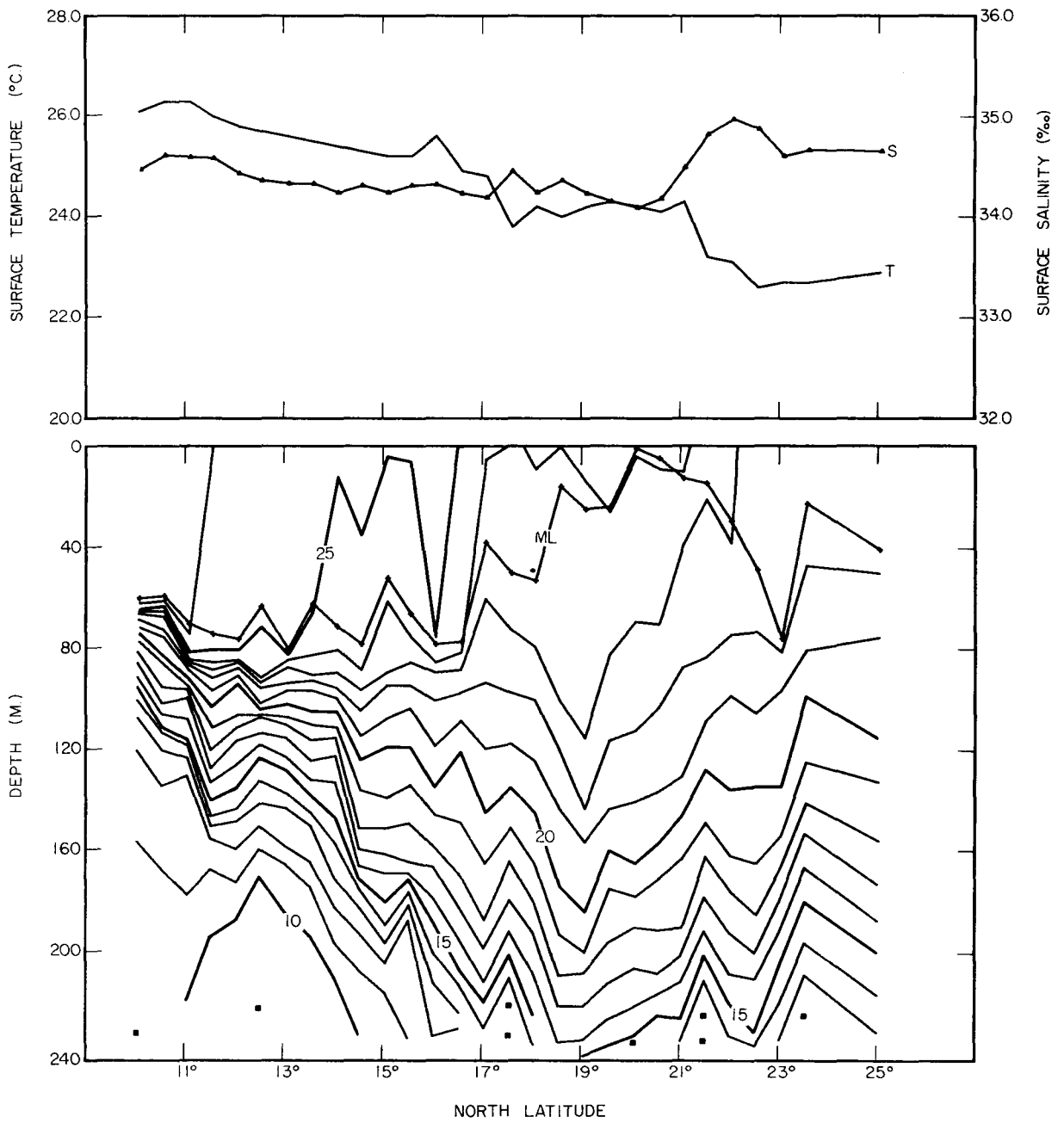


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 15 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

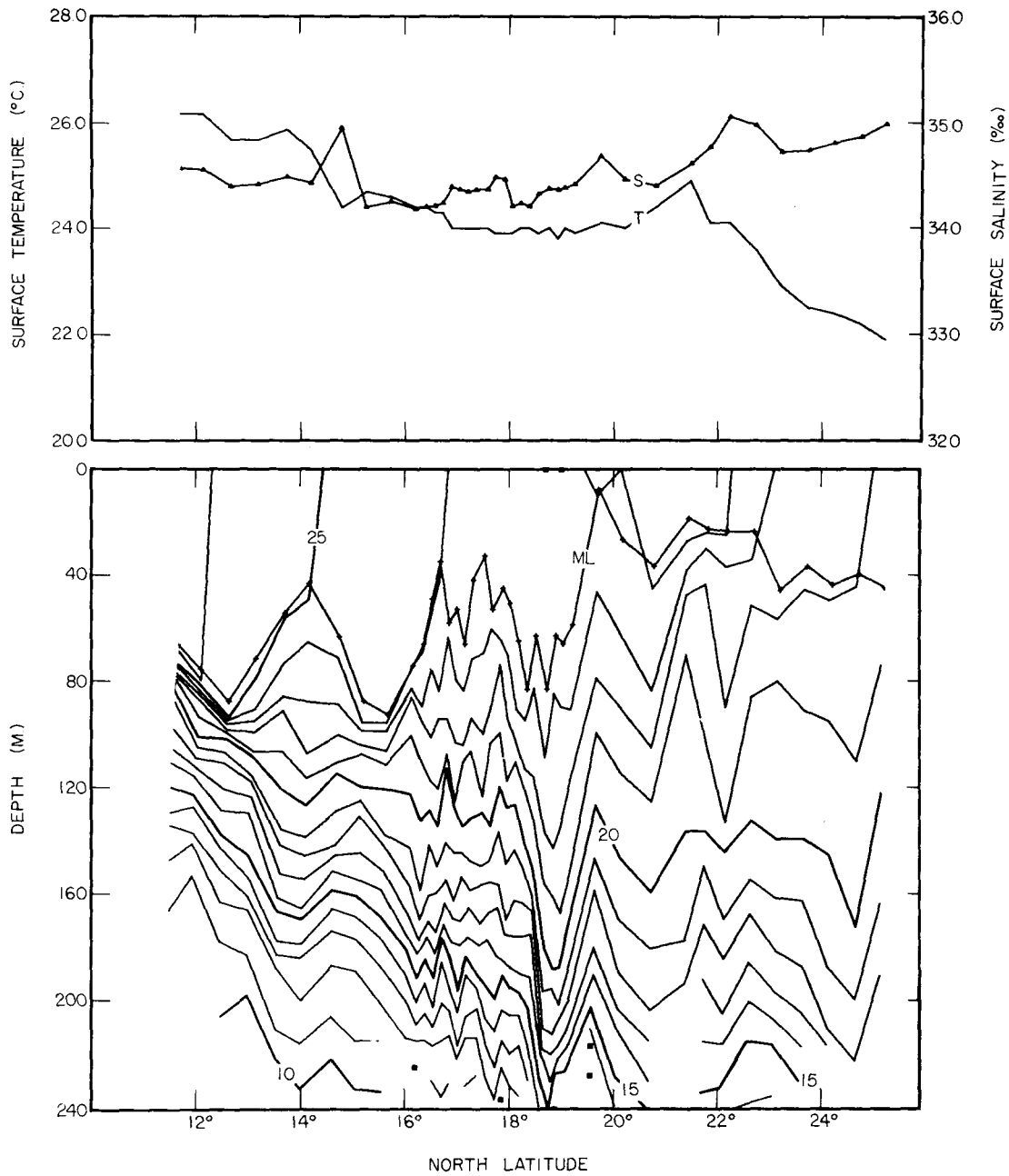


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Crowell cruise 15 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

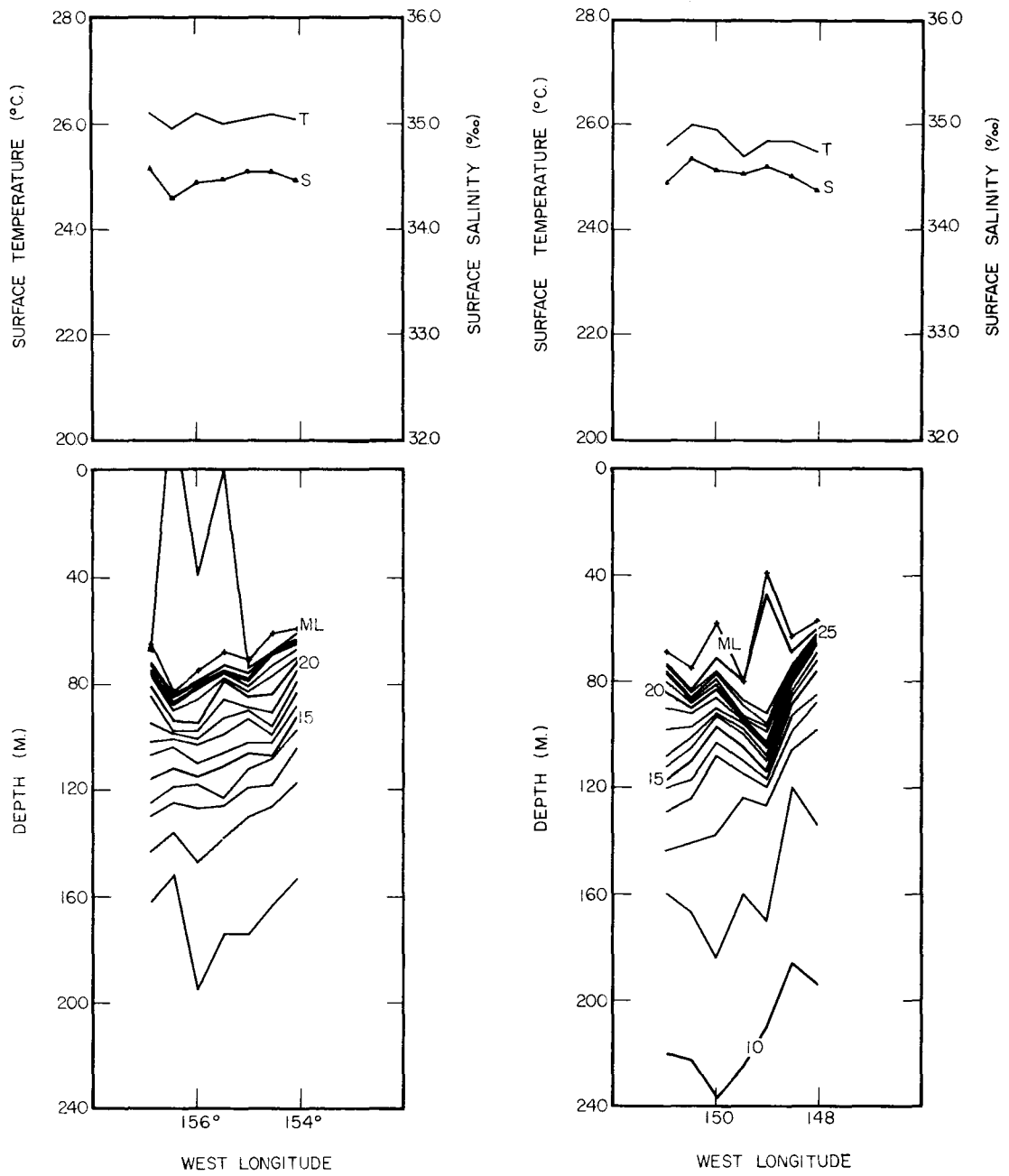


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 15 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

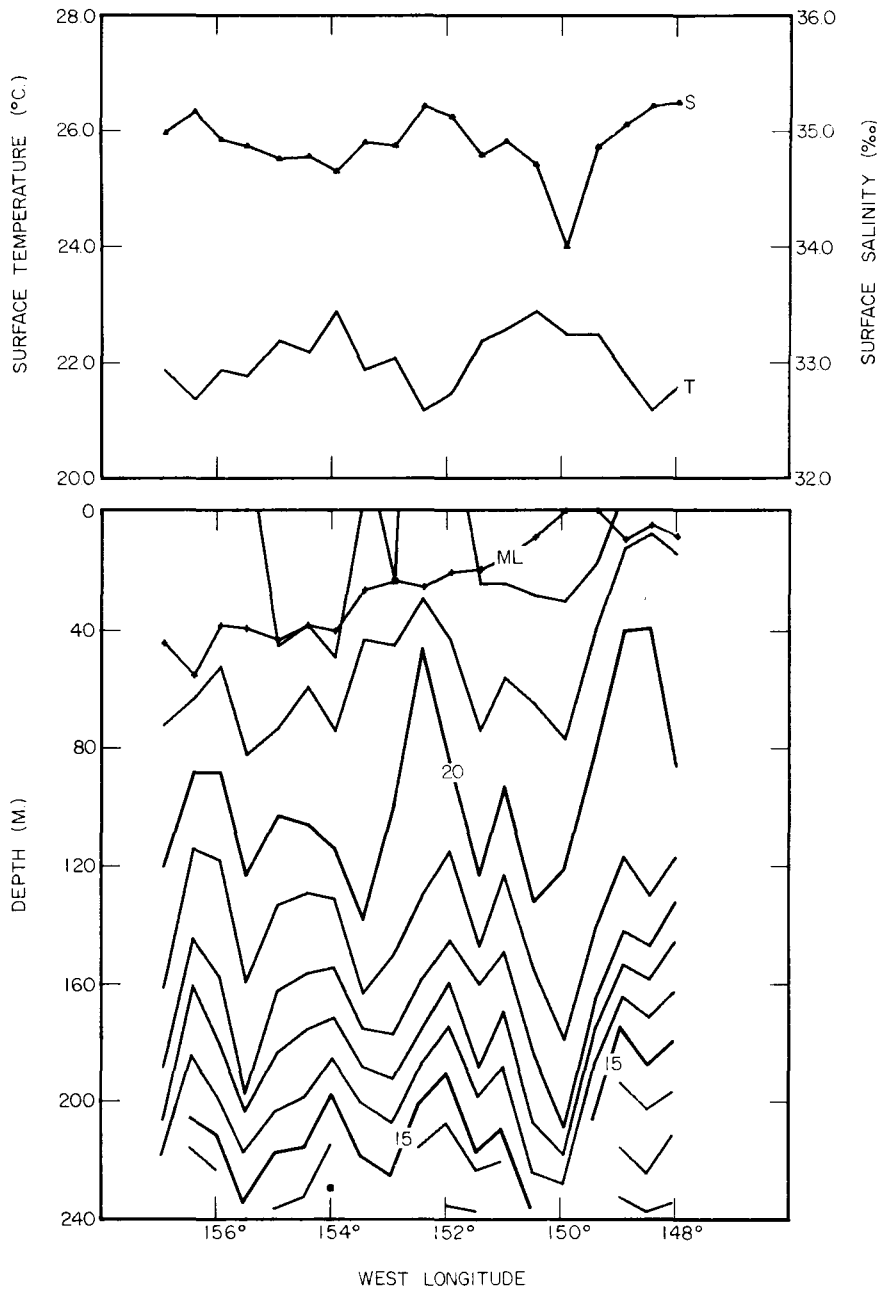


Figure 13.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 15 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

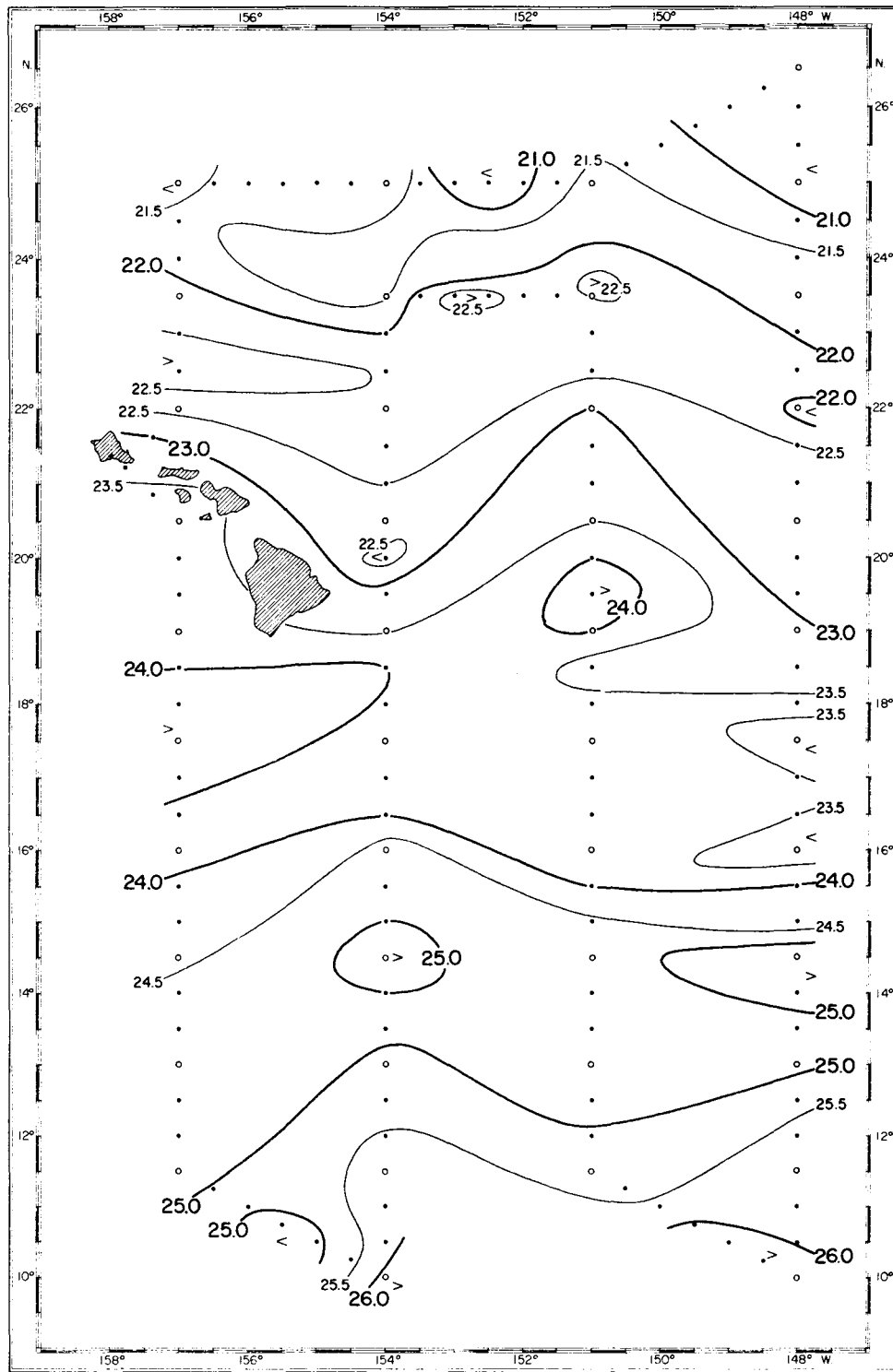


Figure 14.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 14.

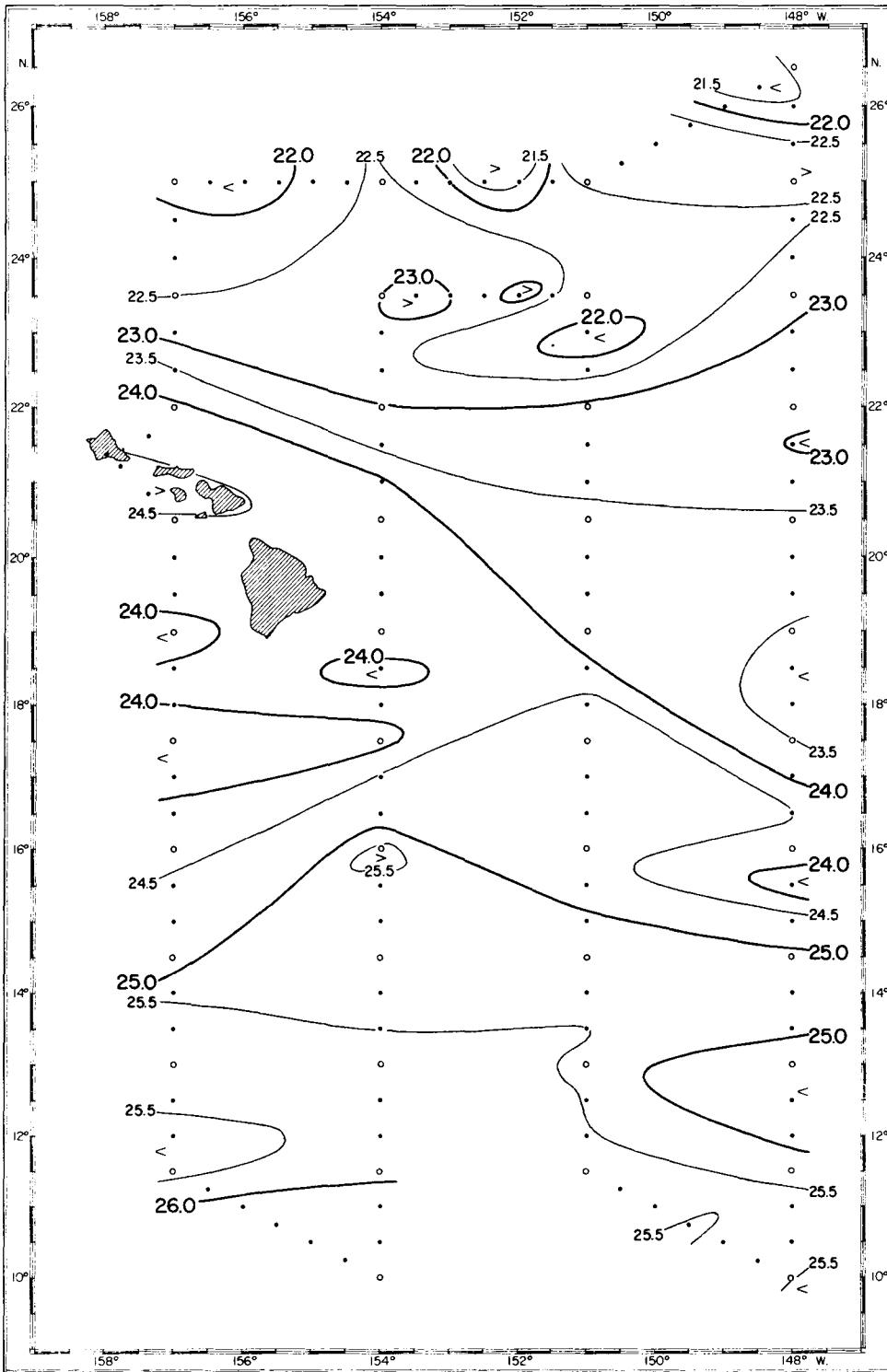


Figure 15.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 15.

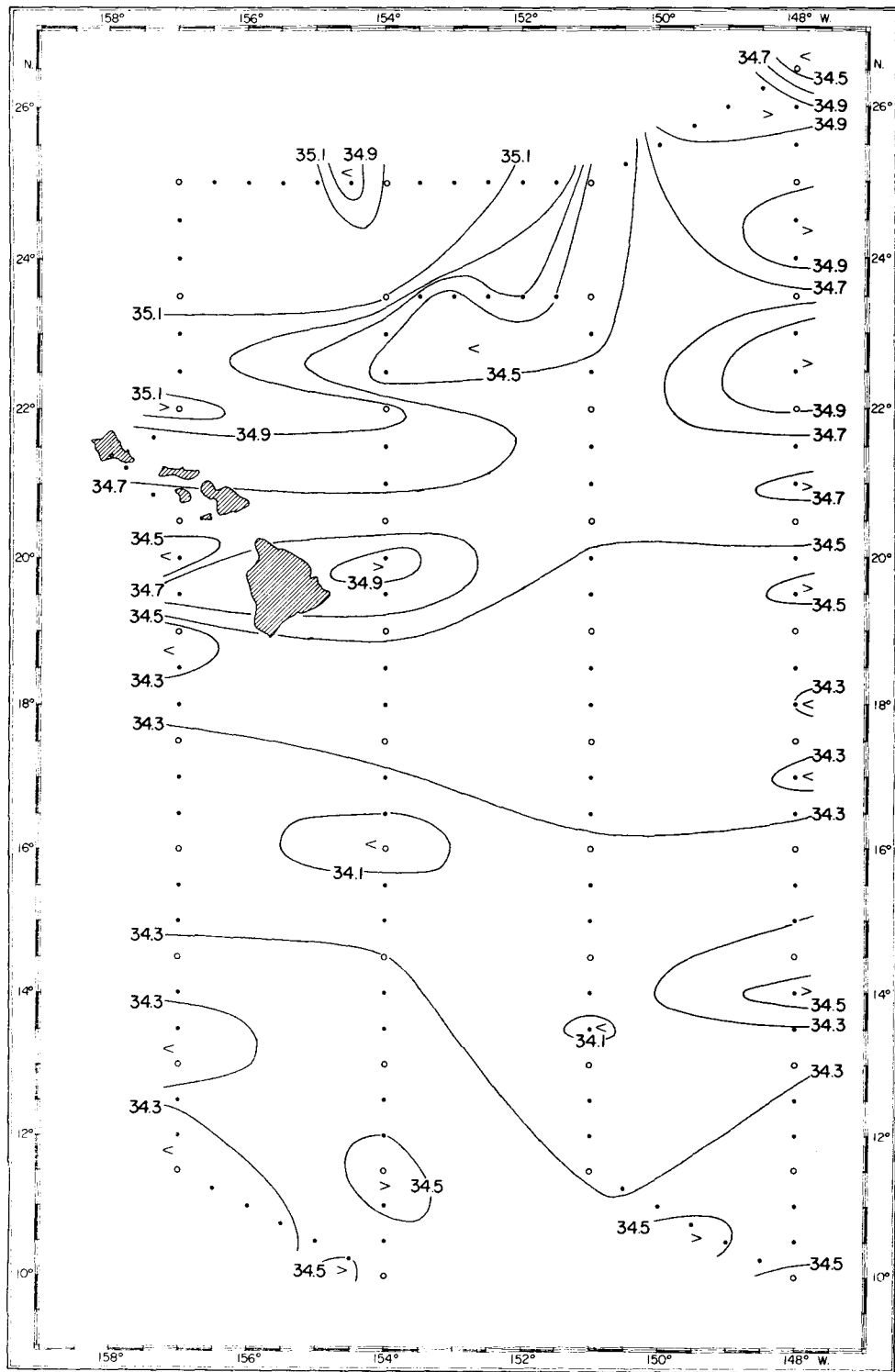


Figure 16.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 14.

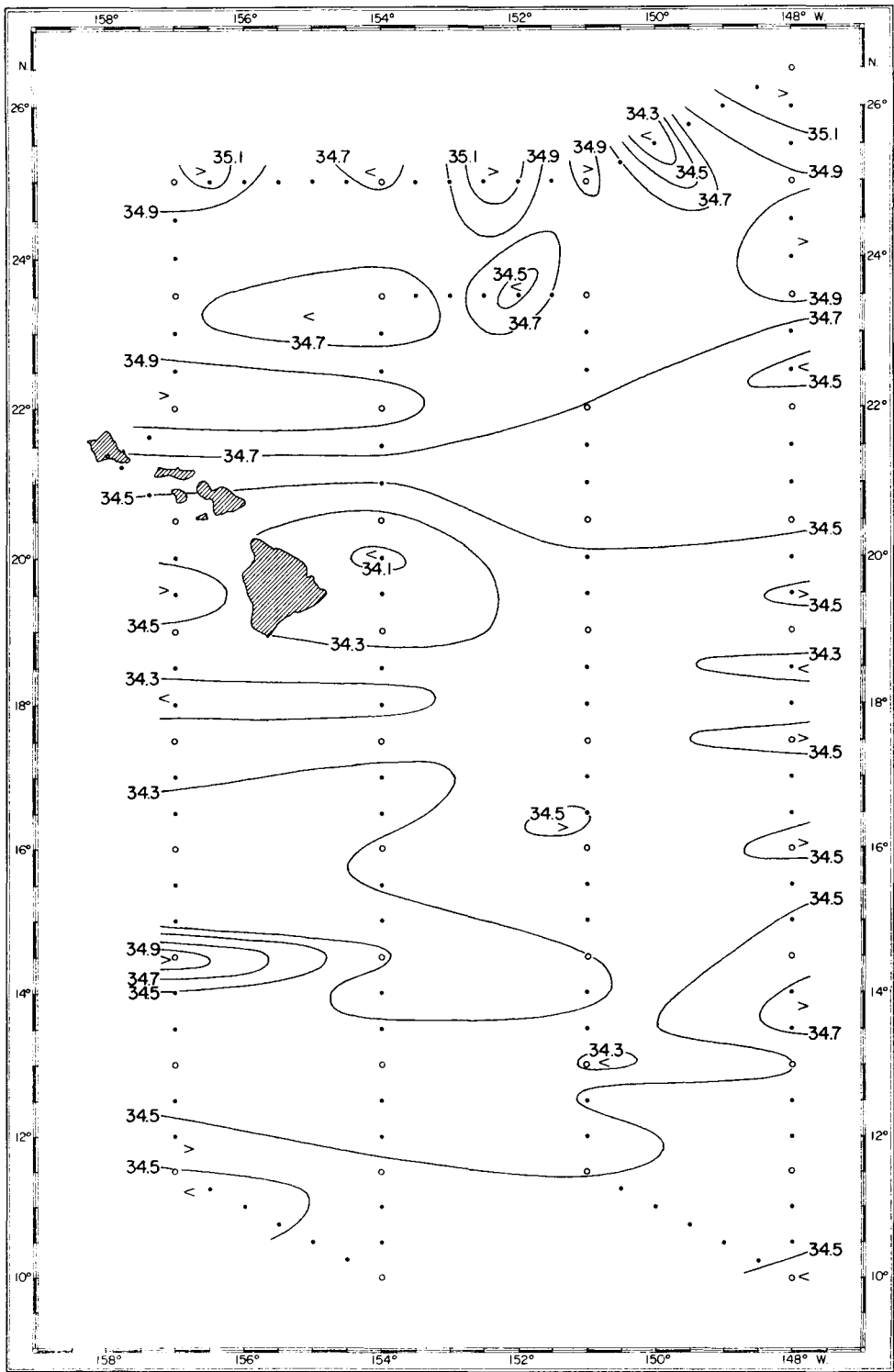


Figure 17.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 15.

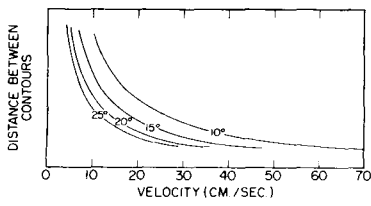
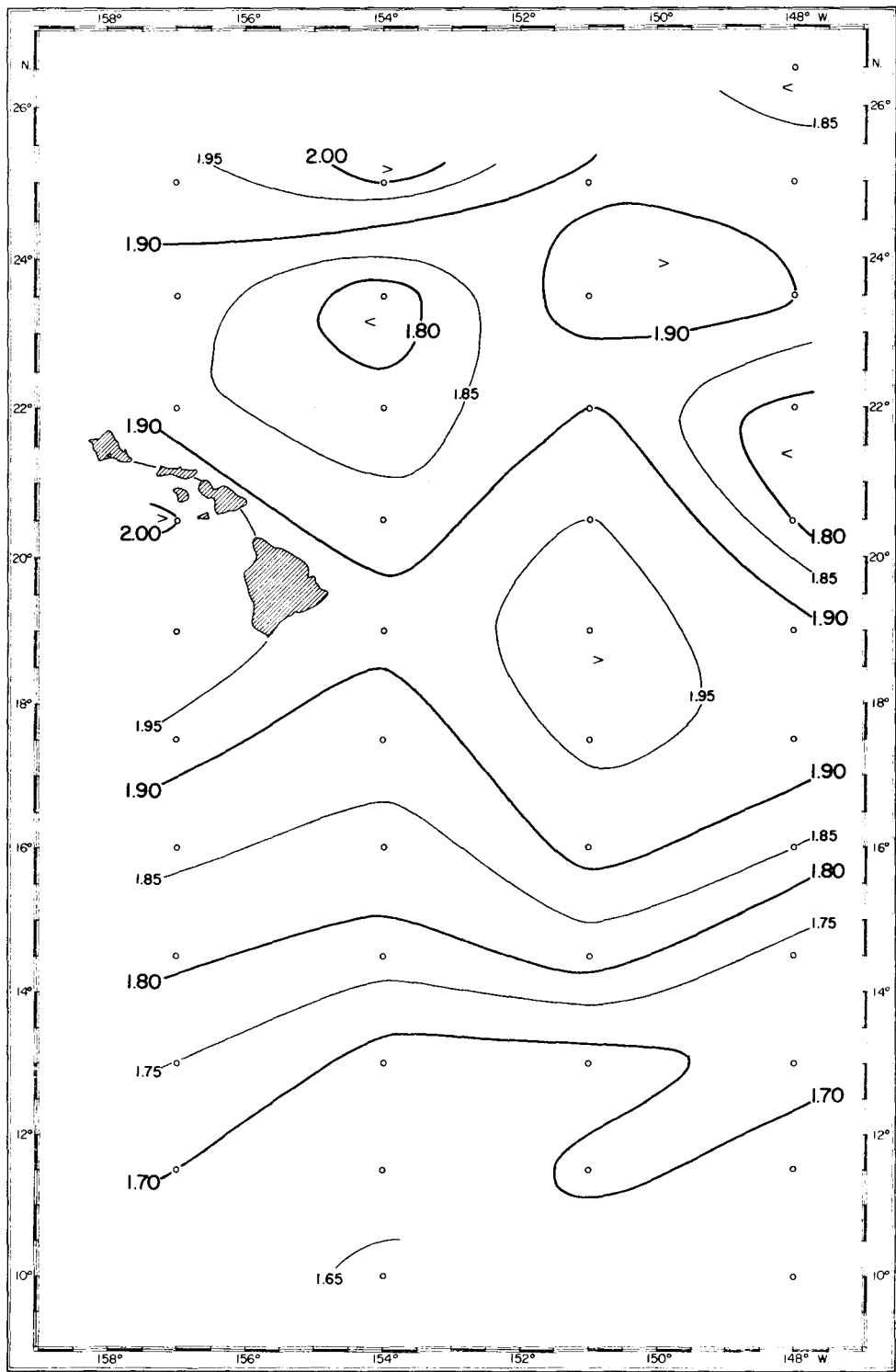


Figure 18.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 14.

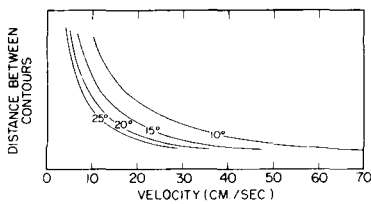
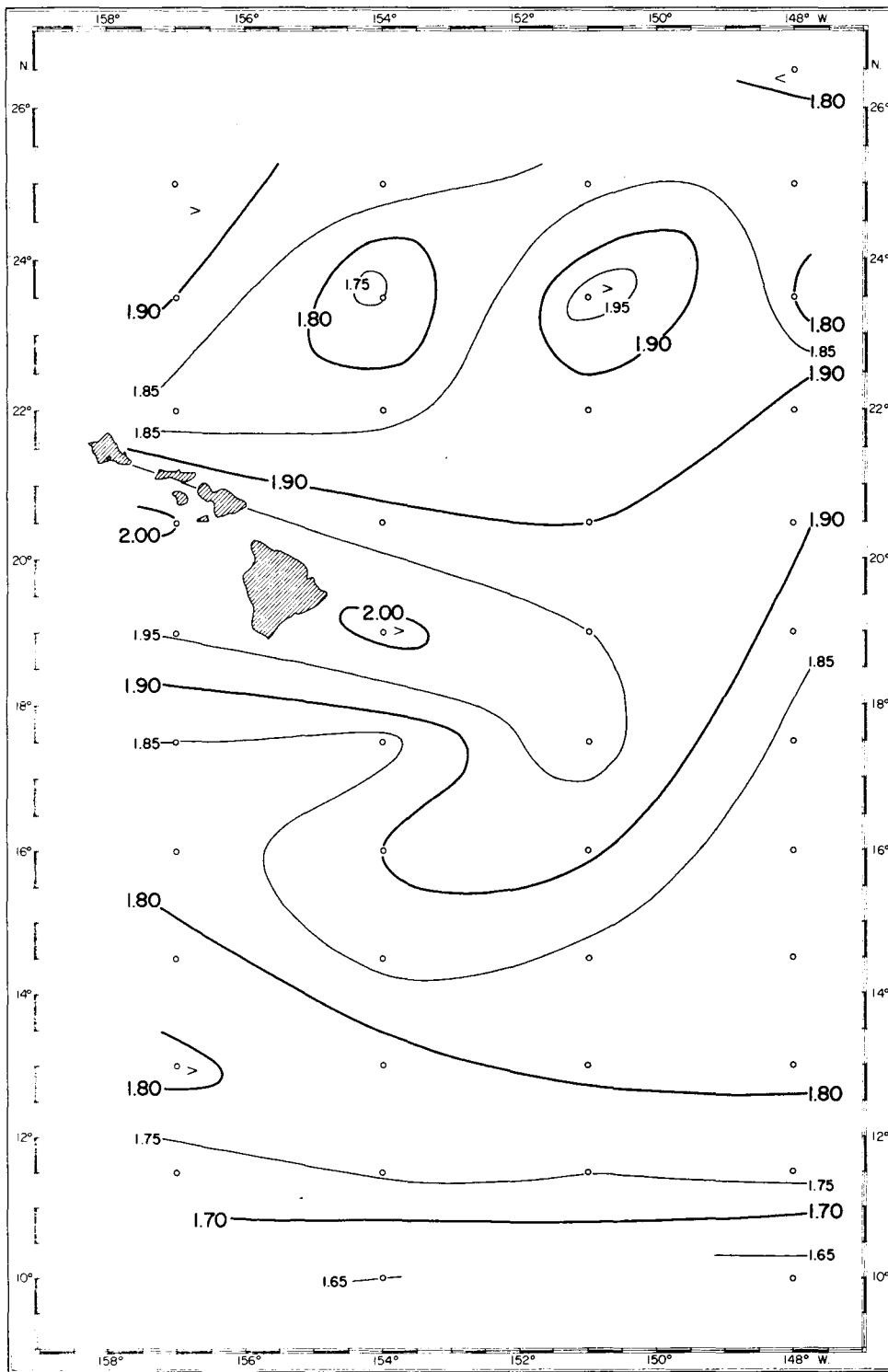


Figure 19.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 15.

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.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 22.4		14, STATION WET BULB 19.7	4, 16- ON LAT, 157- WIND SPEED 18, DIR. 06	0W LONG, MAR. 10, 1965, 1300 G.C.T.	BAR. 17	WEATHER 20	VIS. 7	CLOUD TYPE , COVER 9						
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.		
0.	24.03	34.13			23.00	487.8	0.	24.03	34.13	23.00	487.8	0.000		
10.	24.05	34.14			23.00	488.0	10.	24.05	34.14	23.00	488.0	0.049		
52.	24.00	34.14			23.01	488.2	20.	24.05	34.14	23.00	488.2	0.098		
77.	23.97	34.15			23.03	487.6	30.	24.04	34.14	23.00	488.3	0.147		
100.	22.00	34.86			24.13	389.1	50.	24.00	34.14	23.01	488.2	0.246		
102.	21.80	34.90			24.22	375.0	75.	24.01	34.13	23.00	489.8	0.369		
128.	20.40	35.02			24.69	330.8	100.	22.00	34.86	24.13	383.1	0.479		
153.	18.87	34.95			25.63	298.6	150.	19.11	34.97	24.99	302.7	0.652		
178.	15.38	34.50			25.52	252.3	200.	12.69	34.26	25.90	216.0	0.783		
204.	12.28	34.24			25.97	210.0	250.	10.42	34.38	26.42	167.4	0.879		
227.	10.71	34.26			26.27	180.9	300.	9.39	34.47	26.66	145.2	0.958		
255.	10.41	34.41			26.44	165.4	400.	8.63	34.56	26.85	128.1	1.096		
280.	9.62	34.41			26.58	152.7	500.	7.59	34.54	27.00	115.4	1.219		
304.	9.36	34.48			26.67	143.9	600.	6.76	34.52	27.10	106.6	1.331		
405.	8.59	34.56			26.86	127.7	700.	6.03	34.52	27.19	98.5	1.434		
509.	7.49	34.54			27.01	114.4	800.	5.41	34.52	27.27	91.1	1.530		
609.	6.69	34.52			27.10	106.0	1000.	4.50	34.53	27.38	81.0	1.704		
810.	5.35	34.52			27.28	90.4	1200.	3.78	34.57	27.49	71.0	1.858		
1012.	4.46	34.53			27.39	80.5	1500.	3.07	34.60	27.58	62.2	2.061		
1214.	3.74	34.57			27.49	70.4								
1518.	3.04	34.60			27.58	61.8								

CROMWELL DRY BULB 23.8		14, STATION WET BULB 21.0	5, 14-26N LAT, 157- WIND SPEED 15, DIR. 07	1W LONG, MAR. 10, 1965, 2200 G.C.T.	BAR. 16	WEATHER 03	VIS. 8	CLOUD TYPE 8, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DPTH.
0.	24.61	34.48			23.09	479.0	0.	24.61	34.48	23.09	479.0	0.000
10.	24.61	34.47			23.08	480.1	10.	24.61	34.47	23.08	480.1	0.048
49.	24.55	34.48			23.11	479.2	20.	24.59	34.47	23.08	480.2	0.097
73.	24.58	34.50			23.11	479.6	30.	24.58	34.47	23.09	480.1	0.145
95.	23.27	35.01			23.88	406.7	50.	24.57	34.48	23.10	480.1	0.242
100.	22.70	35.06			24.09	387.6	75.	24.53	34.55	23.16	474.8	0.362
119.	20.66	35.07			24.66	333.5	100.	22.70	35.06	24.09	387.6	0.471
143.	18.70	34.94			25.07	294.9	150.	18.04	34.85	25.17	285.6	0.640
166.	16.36	34.63			25.40	263.9	200.	12.42	34.31	25.99	207.6	0.765
190.	13.37	34.36			25.84	221.7	250.	10.37	34.38	26.42	166.9	0.859
214.	11.42	34.28			26.16	191.6	300.	9.24	34.41	26.64	147.2	0.938
237.	10.66	34.33			26.33	175.1	400.	8.08	34.53	26.91	121.9	1.074
261.	10.14	34.41			26.49	160.9	500.	7.09	34.51	27.04	110.8	1.191
284.	9.52	34.39			26.58	152.7	600.	6.40	34.51	27.14	102.5	1.299
378.	8.34	34.53			26.87	125.6	700.	5.79	34.52	27.22	95.3	1.399
473.	7.31	34.51			27.01	113.4	800.	5.28	34.52	27.29	89.1	1.492
569.	6.61	34.51			27.11	105.0	1000.	4.45	34.55	27.40	78.9	1.662
758.	5.48	34.52			27.26	91.5	1200.	3.78	34.57	27.49	70.6	1.814
950.	4.64	34.54			27.37	81.4						
1144.	3.96	34.57			27.47	72.5						
1444.	3.19	34.60			27.57	63.2						

CROMWELL DRY BULB 24.0		14, STATION WET BULB 21.4	6, 13- 4N LAT, 157- WIND SPEED 16, DIR. 07	2W LONG, MAR. 11, 1965, 0600 G.C.T.	BAR. 15	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.	24.57	34.22			22.90	496.6	0.	24.57	34.22	22.90	496.6	0.000
10.	24.56	34.22			22.91	496.7	10.	24.56	34.22	22.91	496.7	0.050
48.	24.51	34.25			22.94	494.6	20.	24.56	34.25	22.93	495.3	0.100
50.	24.50	34.24			22.94	495.1	30.	24.55	34.26	22.94	494.5	0.150
74.	23.87	34.46			23.29	462.3	50.	24.50	34.24	22.94	495.1	0.250
99.	21.02	34.90			24.41	354.4	75.	23.78	34.48	23.33	458.3	0.370
124.	17.56	34.62			25.11	290.5	100.	20.89	34.89	24.46	351.3	0.472
149.	14.25	34.43			25.71	233.0	150.	14.11	34.42	25.73	231.0	0.618
173.	11.48	34.26			26.13	193.2	200.	10.95	34.48	26.40	168.6	0.719
199.	10.97	34.47			26.39	169.3	250.	10.35	34.63	26.62	148.0	0.799
222.	10.54	34.57			26.54	155.1	300.	9.82	34.66	26.74	138.1	0.871
247.	10.38	34.63			26.62	148.5	400.	8.55	34.60	26.89	124.2	1.003
273.	10.10	34.63			26.67	144.3	500.	7.67	34.56	27.00	115.6	1.124
298.	9.85	34.66			26.73	138.5	600.	6.74	34.53	27.10	105.8	1.236
396.	8.59	34.60			26.89	124.6	700.	5.99	34.52	27.20	97.4	1.339
496.	7.71	34.56			26.99	116.0	800.	5.39	34.53	27.28	90.1	1.434
595.	6.78	34.53			27.10	106.3	1000.	4.48	34.56	27.41	78.3	1.604
793.	5.43	34.53			27.27	90.6	1200.	3.80	34.58	27.50	70.2	1.754
992.	4.51	34.56			27.40	78.7						
1191.	3.86	34.58			27.49	70.9						
1492.	3.13	34.60			27.58	62.8						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 14, STATION 12, 17-30N LAT, 153-58W LONG, MAR. 14, 1965, 1600 G.C.T.															
DRY BULB	22.9	WET BULB	21.0	WIND SPEED	05, DIR.	34	BAR.	12	WEATHER	O2	VIS.	6	CLOUD TYPE	8, COVER	2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.79	34.45	5.23		23.31	458.0	0.	23.79	34.45	23.31	458.0	0.000			
10.	23.90	34.46	5.41	0.26	23.28	460.7	10.	23.90	34.46	23.28	460.7	0.046			
30. ^Δ	23.78	34.61			23.43	447.3	20.	23.88	34.52	23.33	456.2	0.092			
51.	23.45	34.85	4.75	0.13	23.71	421.6	30.	23.78	34.61	23.43	447.3	0.138			
77.	23.01	35.10	5.21	0.38	24.03	392.4	50.	23.47	34.84	23.70	422.9	0.226			
101.	21.61	35.20	4.97	0.29	24.50	348.2	75.	23.06	35.08	24.00	394.9	0.329			
127.	20.36	35.14	4.73	0.53	24.79	321.1	100.	21.68	35.20	24.48	350.0	0.422			
152.	18.07	34.80	4.37	0.73	25.12	290.3	150.	18.26	34.83	25.10	292.6	0.584			
177.	16.56	34.69	4.74	0.56	25.4C	264.3	200.	14.43	34.42	25.67	238.5	0.718			
202.	14.24	34.40	4.41	0.84	25.69	236.5	250.	11.36	34.20	26.11	197.1	0.828			
227.	12.63	34.26	4.41	0.98	25.91	215.7	300.	9.60	34.20	26.42	168.2	0.920			
252.	11.27	34.20	3.83	1.39	26.12	195.7	400.	8.46	34.37	26.73	139.4	1.075			
278.	10.4 ^H	34.21	3.37	1.55	26.27	181.8	500.	7.36	34.42	26.93	121.3	1.207			
303.	9.48	34.20	3.13	1.74	26.43	166.4	600.	6.54	34.44	27.06	109.6	1.324			
403.	8.46	34.38	1.09	3.50	26.74	138.9	700.	5.76	34.45	27.17	99.8	1.429			
506.	7.30	34.42	0.80	2.58	26.94	120.4	800.	5.13	34.46	27.25	92.0	1.526			
605.	6.50	34.44	0.67	2.76	27.07	109.2	1000.	4.68	34.54	27.37	82.7	1.703			
806.	5.10	34.46	1.03	2.72	27.26	91.6	1200.	3.86	34.56	27.47	72.4	1.860			
1008.	4.67	34.54	1.03	2.90	27.37	82.4	1500.	3.07	34.59	27.57	62.8	2.066			
1208.	3.82	34.56	1.22	2.91	27.48	72.0									
1510.	3.04	34.59	1.61	2.68	27.56	62.5									

CROMWELL 14, STATION 13, 18-58N LAT, 153-56W LONG, MAR. 15, 1965, 0300 G.C.T.															
DRY BULB	22.6	WET BULB	19.7	WIND SPEED	16, DIR.	01	BAR.	12	WEATHER	O2	VIS.	8	CLOUD TYPE	5, COVER	5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.59	34.47	5.21		23.38	450.9	0.	23.59	34.47	23.38	450.9	0.000			
9.	23.42	34.49	5.25	0.35	23.45	445.1	10.	23.39	34.49	23.46	444.1	0.045			
30. ^Δ	22.94	34.58			23.65	426.2	20.	23.15	34.54	23.56	434.6	0.089			
47.	22.89	34.62	5.25	0.27	23.70	422.5	30.	22.94	34.58	23.65	426.2	0.133			
73.	23.03	35.03	5.21	0.24	23.97	397.8	50.	22.92	34.66	23.72	420.4	0.218			
97.	22.40	35.17	4.92	0.34	24.25	371.4	75.	22.99	35.05	23.99	395.6	0.321			
120.	21.72	35.21	5.20	0.29	24.48	351.1	100.	22.32	35.18	24.28	368.6	0.417			
145.	20.77	35.15	4.86	0.30	24.69	331.5	150.	20.53	35.14	24.75	326.2	0.592			
170.	19.48	35.08	4.76		24.98	304.8	200.	17.61	34.82	25.25	279.1	0.745			
193.	18.18	34.91	4.70		25.18	286.3	250.	12.85	34.27	25.87	220.2	0.870			
217.	16.00	34.63	5.07		25.46	259.6	300.	10.84	34.17	26.18	191.2	0.974			
242.	13.35	34.31	4.84		25.81	226.3	400.	8.91	34.41	26.69	143.3	1.143			
267.	12.08	34.21	4.59	1.14	25.98	210.0	500.	7.82	34.46	26.89	125.4	1.279			
289.	11.18	34.16			26.11	197.9	600.	6.62	34.46	27.07	109.2	1.397			
386.	9.09	34.40	4.75	2.52	26.65	147.0	700.	5.42	34.42	27.19	97.6	1.502			
483.	8.02	34.45	0.59	3.32	26.86	128.5	800.	4.60	34.40	27.27	89.5	1.596			
579.	6.90	34.47	0.45	4.07	27.04	112.2	1000.	4.25	34.52	27.40	78.6	1.766			
772.	4.71	34.39	1.06	3.07	27.25	91.5	1200.	3.76	34.57	27.49	70.7	1.917			
967.	4.34	34.51	0.96	3.36	27.38	80.0									
1161.	3.81	34.54	1.29	2.85	27.46	73.0									
1457.	3.10	34.59	1.63		27.57	62.9									

CROMWELL 14, STATION 14, 20-32N LAT, 153-57W LONG, MAR. 15, 1965, 1400 G.C.T.															
DRY BULB	21.2	WET BULB	17.5	WIND SPEED	16, DIR.	04	BAR.	15	WEATHER	O1	VIS.	8	CLOUD TYPE	8, COVER	1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	22.88	34.59	5.39		23.68	422.7	0.	22.88	34.59	23.68	422.7	0.000			
9.	22.90	34.60	5.29	0.28	23.68	422.8	10.	22.90	34.61	23.69	422.1	0.043			
47.	22.58	35.04	5.77	0.22	24.10	383.8	20.	22.87	34.72	23.78	413.8	0.085			
70.	22.13	35.07	5.29	0.39	24.25	370.3	30.	22.80	34.83	23.89	403.9	0.126			
92.	21.93	35.12	5.23	0.16	24.35	362.2	50.	22.52	35.05	24.13	381.7	0.205			
116.	21.54	35.18	5.30	0.18	24.50	348.4	75.	22.08	35.08	24.28	368.5	0.299			
140.	20.53	35.16	4.92	0.30	24.76	324.4	100.	21.84	35.14	24.39	358.5	0.391			
162.	19.63	35.07	4.89	0.34	24.93	308.9	150.	20.14	35.13	24.84	317.2	0.561			
185.	18.32	34.90	4.19	0.56	25.13	290.1	200.	17.25	34.76	25.29	275.8	0.711			
208.	16.67	34.68	4.69	0.53	25.37	268.5	250.	14.07	34.38	25.71	236.1	0.840			
232.	15.28	34.51	4.72	0.63	25.55	251.0	300.	10.95	34.11	26.11	197.5	0.949			
255.	13.72	34.34	4.78	0.80	25.75	231.8	400.	7.83	34.07	26.59	152.5	1.126			
278.	12.09	34.18	4.78	1.06	25.95	212.7	500.	6.15	34.09	26.84	128.9	1.268			
370.	8.55	34.08	3.38	2.67	26.49	161.9	600.	5.20	34.21	27.05	109.1	1.388			
464.	6.70	34.07	1.87	2.70	26.75	137.2	700.	4.81	34.37	27.22	93.8	1.490			
556.	5.48	34.14	1.32	3.36	26.96	117.2	800.	4.53	34.47	27.33	83.7	1.580			
742.	4.75	34.43	0.95	2.39	27.27	88.7	1000.	3.91	34.52	27.44	74.3	1.740			
928.	4.10	34.51	1.19	3.14	27.41	76.7	1200.	3.40	34.56	27.52	67.1	1.883			
1114.	3.64	34.53	1.30	3.19	27.47	71.3									
1398.	3.00	34.58	1.83	3.12	27.57	62.0									

APROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 14, STATION 15, 21-58N LAT, 154- 0W LONG, MAR. 15, 1965, 2200 G.C.T.														
DRY BULB 22.4 WET BULB 17.3 WIND SPEED 18, DIR. 06 BAR. 19 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 2														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.48	34.93	5.37		24.05	387.2	0.	22.48	34.93	24.05	387.2	0.000		
7.	22.50	34.95	5.28	0.58	24.06	386.6	10.	22.49	34.96	24.07	385.6	0.039		
40.	22.40	35.07	5.36	0.30	24.18	376.5	20.	22.47	35.00	24.11	382.5	0.078		
50.Δ	22.40	35.08			24.19	376.1	30.	22.44	35.04	24.14	379.4	0.116		
61.	21.73	35.22	5.25	0.28	24.48	348.5	50.	22.40	35.08	24.19	376.1	0.192		
82.	21.37	35.22	5.05	0.36	24.58	339.8	75.	21.42	35.24	24.58	339.3	0.282		
101.	21.15	35.21	5.08	0.41	24.63	335.4	100.	21.17	35.21	24.63	335.8	0.367		
121.	20.41	35.19	4.97	0.32	24.82	318.5	150.	19.34	35.11	25.04	298.1	0.527		
141.	19.52	35.13	4.90	0.44	25.01	301.1	200.	16.27	34.67	25.45	260.0	0.668		
174.	18.21	34.94	4.88	0.56	25.19	284.2	250.	12.78	34.29	25.91	216.8	0.788		
183.	17.19	34.78	5.05	0.59	25.32	272.2	300.	10.46	34.13	26.21	187.8	0.890		
203.	16.15	34.66	4.92	1.17	25.47	258.2	400.	8.21	34.15	26.60	152.0	1.061		
224.	14.39	34.44	5.07	0.83	25.69	237.3	500.	5.98	34.10	26.86	126.2	1.202		
244.	13.12	34.32	5.09		25.86	221.1	600.	4.93	34.22	27.08	105.2	1.319		
325.	9.63	34.10	4.56	1.49	26.33	176.6	700.	4.58	34.36	27.24	91.2	1.418		
408.	8.10	34.16	2.54	2.41	26.62	149.8	800.	4.42	34.44	27.32	84.3	1.507		
492.	6.10	34.09	2.09	2.64	26.84	128.1	1000.	3.89	34.52	27.44	74.1	1.667		
658.	4.70	34.32	0.64	3.35	27.15	95.4	1200.	3.44	34.57	27.52	66.6	1.809		
828.	4.40	34.46	1.04	2.99	27.34	83.1								
1002.	3.88	34.52	1.28	2.95	27.44	74.0								
1279.	3.24	34.57	1.52	2.50	27.54	64.8								

TEMPERATURE ERROR TERM AT 150. METERS IS 0.13

CROMWELL 14, STATION 16, 23-29N LAT, 153-56W LONG, MAR. 16, 1965, 0800 G.C.T.														
DRY BULB 19.9 WET BULB 16.0 WIND SPEED 19, DIR. 07 BAR. 19 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 1														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.10	35.22	5.44		24.65	329.7	0.	21.10	35.22	24.65	329.7	0.000		
9.	21.10	35.22	5.59	0.36	24.65	330.0	10.	21.10	35.22	24.65	330.0	0.033		
50.	20.94	35.23	5.39	0.31	24.70	326.7	20.	21.08	35.22	24.66	329.7	0.066		
75.	20.74	35.22	5.45	0.22	24.75	323.1	30.	21.05	35.23	24.67	329.0	0.100		
99.	20.41	35.18	5.36	0.27	24.81	318.4	50.	20.94	35.23	24.70	326.7	0.166		
124.	19.43	35.10	5.06	0.37	25.01	300.5	75.	20.74	35.22	24.75	323.1	0.248		
149.	18.60	34.99	4.89	0.46	25.13	289.0	100.	20.38	35.18	24.82	317.8	0.328		
173.	17.20	34.77	5.12	0.48	25.31	272.9	150.	18.55	34.98	25.14	288.4	0.481		
199.	15.79	34.60	5.41	0.61	25.51	254.3	200.	15.72	34.59	25.52	253.6	0.618		
224.	14.31	34.41		0.76	25.68	237.8	250.	12.88	34.28	25.87	219.9	0.737		
248.	12.95	34.28	5.01	0.91	25.86	220.9	300.	11.05	34.17	26.14	195.0	0.842		
273.	12.21	34.25	5.09	1.07	25.99	209.6	400.	8.29	34.04	26.50	161.4	1.021		
297.	11.16	34.18	5.17	1.12	26.13	196.2	500.	5.96	34.06	26.84	128.3	1.168		
397.	8.37	34.04	4.24	1.86	26.49	162.5	600.	4.94	34.19	27.06	107.5	1.287		
496.	6.02	34.06	2.04	2.66	26.83	129.3	700.	4.52	34.32	27.21	93.5	1.388		
595.	4.97	34.18	0.91	3.14	27.05	108.4	800.	4.36	34.43	27.32	84.2	1.478		
794.	4.37	34.43	0.98	2.81	27.32	84.6	1000.	3.89	34.51	27.43	74.7	1.639		
993.	3.91	34.51	1.18	3.27	27.43	75.0	1200.	3.43	34.56	27.51	67.5	1.783		
1193.	3.42	34.55	1.51	3.32	27.51	67.8								
1492.	2.82	34.58	1.76	3.47	27.59	60.5								

CROMWELL 14, STATION 17, 23-28N LAT, 151- 1W LONG, MAR. 17, 1965, 0000 G.C.T.														
DRY BULB 22.4 WET BULB 17.4 WIND SPEED 20, DIR. 34 BAR. 17 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 1														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.62	34.47			23.66	424.3	0.	22.62	34.47	23.66	424.3	0.000		
9.	22.64	34.47			23.66	425.1	10.	22.64	34.47	23.66	425.2	0.043		
30.Δ	22.65	34.47			23.65	426.2	20.	22.65	34.47	23.65	426.0	0.086		
48.	22.60	34.48			23.67	424.8	30.	22.65	34.47	23.65	426.2	0.129		
72.	22.18	34.99			24.18	377.5	50.	22.58	34.52	23.71	421.4	0.214		
96.	21.39	35.03			24.43	354.5	75.	22.08	35.01	24.22	373.8	0.314		
121.	21.15	35.18			24.61	338.3	100.	21.34	35.05	24.46	351.6	0.405		
145.	20.65	35.20			24.76	324.8	150.	20.38	35.18	24.82	319.1	0.574		
169.	19.24	35.09			25.05	298.1	200.	17.80	34.87	25.24	280.2	0.726		
193.	18.22	34.94			25.19	285.0	250.	14.25	34.42	25.70	237.0	0.856		
217.	16.63	34.70			25.39	266.4	300.	11.66	34.22	26.07	202.1	0.967		
241.	14.69	34.46			25.64	242.5	400.	8.23	34.07	26.53	158.3	1.148		
266.	13.57	34.36			25.80	227.7	500.	6.76	34.11	26.77	135.6	1.297		
289.	12.22	34.26			25.99	209.5	600.	5.27	34.15	26.99	114.6	1.423		
384.	8.54	34.07			26.48	162.7	700.	4.66	34.28	27.16	98.5	1.531		
481.	7.10	34.11			26.73	140.1	800.	4.42	34.40	27.29	87.3	1.625		
577.	5.48	34.12			26.94	119.0	1000.	3.93	34.49	27.41	76.5	1.790		
769.	4.52	34.38			27.26	89.9	1200.	3.47	34.56	27.51	68.0	1.937		
962.	4.02	34.48			27.39	78.3								
1156.	3.57	34.54			27.49	70.1								
1451.	2.96	34.60			27.59	60.4								

FROM BT DATA

Table 1.-Continued

ORIGINAL DATA					DERIVED DATA				INTERPOLATED DATA				
CROMWELL 14, STATION 14, 22- IN LAT, 151- CW LCNG, MAR. 17, 1965, 0900 G.C.T.													
DRY BULB 21.7		WET BULB 18.0		WIND SPEED 17, DIR. 34		BAR. 18		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.25	34.60			23.58	432.1	0.	23.25	34.60	23.58	432.1	0.000	
9.	23.25	34.60			23.58	432.4	10.	23.25	34.60	23.58	432.6	0.044	
30.Δ	23.24	34.62			23.60	431.5	20.	23.25	34.60	23.58	432.9	0.087	
48.	23.20	34.76			23.71	421.0	30.	23.24	34.62	23.60	431.5	0.131	
72.	23.25	34.95			23.84	409.6	50.	23.20	34.78	23.73	419.8	0.216	
75.Δ	23.25	34.96			23.85	409.0	75.	23.25	34.96	23.85	409.0	0.321	
93.	22.31	35.09			24.22	374.6	100.	22.03	35.14	24.33	364.0	0.418	
120.	21.22	35.21			24.61	338.0	150.	19.63	35.11	24.96	305.7	0.587	
145.	19.84	35.13			24.92	309.3	200.	16.45	34.66	25.40	264.7	0.731	
169.	18.74	34.99			25.10	293.1	250.	12.73	34.22	25.86	221.3	0.853	
193.	17.02	34.74			25.33	271.6	300.	10.44	34.10	26.20	189.3	0.957	
217.	15.05	34.47			25.57	248.6	400.	7.45	34.07	26.64	146.8	1.126	
242.	13.27	34.26			25.78	228.4	500.	6.43	34.20	26.89	124.5	1.263	
266.	11.78	34.16			26.00	208.1	600.	5.70	34.36	27.11	104.4	1.379	
289.	10.82	34.12			26.13	195.5	700.	5.40	34.46	27.22	94.3	1.479	
385.	7.70	34.06			26.60	150.9	800.	5.18	34.51	27.29	89.1	1.572	
482.	6.61	34.17			26.84	128.9	1000.	4.42	34.52	27.38	80.9	1.744	
578.	5.79	34.33			27.07	107.4	1200.	3.81	34.54	27.46	73.2	1.900	
768.	5.30	34.50			27.27	90.8							
961.	4.57	34.51			27.36	82.6							
1152.	3.96	34.54			27.45	74.8							
1441.	3.22	34.58			27.55	65.0							

CROMWELL 14, STATION 19, 20-31N LAT, 150-56W LCNG, MAR. 17, 1965, 1800 G.C.T.													
DRY BULB 27.8		WET BULB 18.3		WIND SPEED 18, DIR. 32		BAR. 18		WEATHER 02		VIS. 8		CLOUD TYPE 2, COVER 2	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.50	34.50			23.43	446.2	0.	23.50	34.50	23.43	446.2	0.000	
9.	23.50	34.49			23.42	447.3	10.	23.50	34.49	23.42	447.4	0.045	
50.	23.55	34.67			23.54	437.3	20.	23.53	34.50	23.43	447.6	0.090	
75.	23.42	34.96			23.80	413.7	30.	23.54	34.54	23.45	445.9	0.135	
99.	22.64	35.10			24.13	383.1	50.	23.55	34.67	23.54	437.3	0.224	
124.	21.39	35.13			24.51	348.3	75.	23.42	34.96	23.80	413.7	0.331	
150.	20.27	35.13			24.81	320.3	100.	22.59	35.10	24.15	381.6	0.431	
173.	19.56	35.08			24.96	306.9	150.	20.27	35.13	24.81	320.3	0.608	
198.	18.45	34.95			25.14	290.0	200.	18.29	34.92	25.16	288.2	0.762	
223.	16.27	34.59			25.39	266.5	250.	14.12	34.35	25.68	239.0	0.895	
247.	14.34	34.37			25.65	242.0	300.	11.25	34.18	26.11	198.3	1.005	
271.	12.71	34.24			25.88	219.8	400.	8.13	34.20	26.65	147.1	1.179	
295.	11.47	34.18			26.07	201.7	500.	6.43	34.24	26.92	121.5	1.315	
391.	8.35	34.20			26.61	150.3	600.	5.80	34.35	27.09	106.1	1.430	
489.	6.54	34.23			26.90	123.6	700.	5.29	34.42	27.21	95.5	1.531	
585.	5.89	34.34			27.07	108.0	800.	4.89	34.47	27.29	88.2	1.624	
777.	4.97	34.46			27.27	89.6	1000.	4.33	34.53	27.40	79.1	1.794	
972.	4.41	34.52			27.38	80.2	1200.	3.78	34.56	27.48	71.5	1.946	
1165.	3.88	34.55			27.46	73.2							
1461.	3.08	34.58			27.56	63.4							

CROMWELL 14, STATION 20, 18-59N LAT, 150-59W LCNG, MAR. 18, 1965, 0400 G.C.T.													
DRY BULB 22.8		WET BULB 19.2		WIND SPEED 10, DIR. 33		BAR. 16		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.95	34.47			23.28	461.0	0.	23.95	34.47	23.28	461.0	0.000	
10.Δ	23.75	34.46			23.33	456.5	10.	23.75	34.46	23.33	456.5	0.046	
20.	23.74	34.47			23.34	455.9	20.	23.74	34.47	23.34	455.9	0.092	
52.	23.70	34.53			23.40	451.7	30.	23.73	34.48	23.35	455.3	0.138	
78.	23.67	34.68			23.52	441.0	50.	23.70	34.52	23.39	452.1	0.229	
103.	23.16	35.05			23.95	401.1	75.	23.69	34.65	23.49	443.2	0.342	
128.	20.83	35.01			24.57	342.5	100.	23.28	35.01	23.88	407.2	0.449	
155.	20.19	35.17			24.86	315.6	150.	20.25	35.14	24.82	318.7	0.632	
180.	19.27	35.04			25.00	302.8	200.	18.42	34.93	25.14	290.5	0.786	
205.	18.15	34.90			25.18	286.7	250.	14.37	34.41	25.67	239.8	0.919	
231.	15.95	34.59			25.46	259.7	300.	11.16	34.17	26.12	196.7	1.030	
256.	13.88	34.36			25.74	233.6	400.	8.60	34.26	26.62	150.2	1.205	
282.	11.91	34.21			26.01	207.2	500.	6.48	34.25	26.92	121.2	1.342	
307.	10.94	34.17			26.16	193.3	600.	5.84	34.34	27.07	107.5	1.457	
409.	8.43	34.27			26.66	146.7	700.	5.38	34.43	27.20	96.3	1.560	
512.	6.28	34.25			26.95	118.9	800.	4.86	34.48	27.30	86.8	1.653	
614.	5.83	34.16			27.09	106.2	1000.	4.11	34.54	27.43	75.5	1.817	
816.	4.78	34.49			27.32	85.4	1200.	3.58	34.57	27.51	68.5	1.963	
1018.	4.06	34.54			27.44	74.8	1500.	2.83	34.62	27.62	57.9	2.155	
1221.	3.53	34.57			27.51	67.9							
1523.	2.78	34.62			27.62	57.3							

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 14, STATION 21, 17-31N LAT, 151- 4W LONG, MAR. 18, 1965, 1200 G.C.T.												
DRY BULB 21.7		WET BULB 18.0		WIND SPEED 06, DIR. 08		BAR. 1E		WEATHER C2		VIS. 6 CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	23.85	34.33			23.20	468.3	0.	23.85	34.33	23.20	468.3	0.000
10.	23.86	34.33			23.20	469.0	10.	23.86	34.33	23.20	469.0	0.047
51.	23.80	34.32			23.21	469.6	20.	23.85	34.32	23.19	469.7	0.094
76.	23.83	34.40			23.26	465.6	30.	23.83	34.32	23.19	470.0	0.142
101.	22.06	34.81			24.0E	388.4	50.	23.80	34.32	23.21	469.6	0.236
125.	20.94	34.89			24.45	354.0	75.	23.85	34.39	23.25	466.5	0.354
152.	20.14	35.04			24.77	323.6	100.	22.14	34.79	24.04	391.7	0.462
176.	18.22	34.80			25.08	294.6	150.	20.22	35.04	24.75	325.8	0.643
201.	17.00	34.72			25.32	272.8	200.	17.05	34.72	25.31	273.7	0.794
226.	15.08	34.50			25.59	247.3	250.	13.22	34.31	25.83	224.2	0.920
251.	13.14	34.30			25.84	223.2	300.	10.12	34.15	26.29	180.5	1.022
276.	11.04	34.17			26.14	194.4	400.	8.33	34.28	26.68	144.4	1.186
301.	10.09	34.15			26.29	180.1	500.	7.11	34.38	26.94	120.7	1.320
401.	8.37	34.28			26.68	144.1	600.	5.95	34.36	27.08	107.5	1.435
502.	7.09	34.38			26.94	120.3	700.	5.27	34.39	27.18	97.8	1.539
602.	5.93	34.36			27.08	107.3	800.	4.86	34.44	27.27	90.0	1.633
801.	4.86	34.44			27.27	90.0	1000.	4.29	34.52	27.40	79.0	1.805
1003.	4.28	34.52			27.40	78.9	1200.	3.74	34.56	27.48	71.0	1.956
1203.	3.73	34.56			27.49	70.9	1500.	2.99	34.60	27.59	61.1	2.157
1504.	2.98	34.60			27.59	61.0	2000.	2.17	34.64	27.69	51.0	2.442
2044.	2.12	34.64			27.70	50.4	2500.	1.78	34.67	27.74	45.9	2.689
2548.	1.76	34.67			27.75	45.6	3000.	1.63	34.68	27.77	44.6	2.920
3049.	1.62	34.68			27.77	44.7	4000.	1.42	34.65	27.76	46.3	3.386
4040.	1.42	34.65			27.76	46.5						

CROMWELL 14, STATION 22, 15-59N LAT, 151- 3W LONG, MAR. 18, 1965, 2200 G.C.T.												
DRY BULB 23.1		WET BULB 20.2		WIND SPEED 08, DIR. C9		BAR. 17		WEATHER C3		VIS. 8 CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.12	34.20			23.02	485.3	0.	24.12	34.20	23.02	485.3	0.000
9.	23.86	34.19			23.09	479.0	10.	23.85	34.19	23.10	478.7	0.049
30.Δ	23.78	34.21			23.13	476.1	20.	23.77	34.20	23.12	476.6	0.097
49.	23.68	34.23			23.17	472.6	30.	23.78	34.21	23.13	476.1	0.145
76.	23.72	34.48			23.35	456.7	50.	23.69	34.23	23.17	472.7	0.240
99.	22.46	34.92			24.05	391.1	75.	23.73	34.47	23.34	458.0	0.357
123.	20.61	34.99			24.61	338.1	100.	22.38	34.93	24.08	388.5	0.464
148.	19.14	34.92			24.94	307.2	150.	19.05	34.91	24.96	305.7	0.639
173.	17.48	34.72*			25.20	282.9	200.	13.73	34.30	25.73	233.1	0.775
198.	13.94	34.32			25.69	236.1	250.	10.89	34.32	26.28	180.3	0.879
222.	11.90	34.22			26.02	204.9	300.	10.80	34.66	26.56	155.0	0.964
246.	10.87	34.27			26.25	183.4	400.	9.36	34.61	26.78	135.9	1.110
272.	11.16	34.58			26.44	166.3	500.	8.19	34.55	26.91	124.3	1.242
295.	10.87	34.65			26.55	156.6	600.	7.42	34.53	27.01	115.9	1.363
393.	9.46	34.62			26.77	137.0	700.	6.49	34.50	27.12	105.8	1.475
492.	8.26	34.55			26.90	124.9	800.	5.65	34.49	27.22	96.5	1.577
590.	7.52	34.53			27.00	116.9	1000.	4.72	34.52	27.35	84.2	1.760
786.	5.74	34.49			27.20	97.5	1200.	3.97	34.55	27.45	74.5	1.921
985.	4.78	34.52			27.34	85.0						
1182.	4.06	34.55			27.44	75.5						
1483.	3.16	34.59			27.57	63.8						

CROMWELL 14, STATION 23, 14-30N LAT, 151- 1W LONG, MAR. 19, 1965, 0700 G.C.T.												
DRY BULB 24.0		WET BULB 17.0		WIND SPEED 15, DIR. C3		BAR. 17		WEATHER O2		VIS. 8 CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.83	34.15			22.77	509.1	0.	24.83	34.15	22.77	509.1	0.000
9.	24.87	34.15			22.76	510.6	10.	24.87	34.15	22.76	510.7	0.051
50.	24.71	34.16			22.82	506.9	20.	24.83	34.14	22.76	510.9	0.103
77.	24.84	34.33			22.91	499.5	30.	24.80	34.14	22.77	510.4	0.154
100.	21.04	34.52			24.14	382.4	50.	24.71	34.16	22.82	506.9	0.257
124.	17.06	34.51			25.14	287.0	75.	24.91	34.31	22.87	502.6	0.384
151.	16.02	34.29			25.65	238.7	100.	21.04	34.52	24.14	382.4	0.495
175.	12.23	34.24			25.97	208.3	150.	14.11	34.30	25.64	239.8	0.652
200.	11.61	34.41			26.22	185.1	200.	11.61	34.41	26.22	185.1	0.759
224.	11.14	34.57			26.43	165.6	250.	10.81	34.62	26.54	156.5	0.845
248.	10.82	34.62			26.53	156.8	300.	10.33	34.65	26.64	147.6	0.922
274.	10.74	34.66			26.58	153.1	400.	8.67	34.52	26.81	131.8	1.063
298.	10.37	34.65			26.63	148.0	500.	7.88	34.55	26.96	119.4	1.190
397.	8.70	34.52			26.81	132.2	600.	6.87	34.50	27.07	109.7	1.305
496.	7.92	34.55			26.95	119.8	700.	5.92	34.49	27.18	98.9	1.410
594.	6.88	34.50			27.06	109.9	800.	5.23	34.50	27.27	90.2	1.506
792.	5.27	34.50			27.27	90.7	1000.	4.58	34.55	27.39	80.2	1.678
991.	4.61	34.55			27.38	80.7	1200.	3.90	34.58	27.49	71.4	1.832
1189.	3.89	34.58			27.49	71.3	1500.	3.05	34.59	27.58	62.5	2.036
1515.	3.01	34.59			27.58	62.2						

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 14, STATION 24, 13- ON LAT, 151- CW LCNG, MAR. 19, 1965, 1700 G.C.T.													
DRY BULB 24.3			WET BULB 22.8			WIND SPEED 15, DIR. 06		BAR. 15		WEATHER 03		VIS. 7	CLOUD TYPE 8, COVER 6
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.88	34.14			22.75	511.3	0.	24.88	34.14	22.75	511.3	0.000	
10.	24.90	34.13			22.74	513.0	10.	24.90	34.13	22.74	513.0	0.052	
50.	24.58	34.14			22.84	504.6	20.	24.90	34.12	22.73	514.0	0.103	
75.	23.89	34.25			23.13	478.0	30.	24.84	34.12	22.74	513.0	0.155	
99.	17.82	34.55			24.99	300.8	50.	24.58	34.14	22.84	504.6	0.258	
123.	14.14	34.31			25.64	238.8	75.	23.89	34.25	23.13	478.0	0.381	
147.	11.72	34.28			26.10	195.4	100.	17.63	34.54	25.03	296.9	0.479	
171.	11.26	34.53			26.38	169.4	150.	11.61	34.31	26.15	191.4	0.602	
197.	10.87	34.63			26.53	155.8	200.	10.80	34.63	26.54	154.6	0.689	
220.	10.35	34.62			26.61	148.1	250.	10.04	34.64	26.69	141.8	0.764	
244.	10.10	34.64			26.67	143.0	300.	9.15	34.57	26.78	133.6	0.833	
269.	9.79	34.64			26.73	138.4	400.	8.11	34.56	26.93	120.4	0.961	
293.	9.26	34.58			26.77	134.7	500.	7.23	34.54	27.04	110.5	1.078	
390.	8.20	34.56			26.92	121.5	600.	6.38	34.54	27.16	100.0	1.184	
488.	7.34	34.54			27.03	111.9	700.	5.69	34.55	27.25	91.7	1.281	
584.	6.50	34.54			27.15	101.5	800.	5.15	34.55	27.32	85.4	1.371	
779.	5.25	34.55			27.31	86.6	1000.	4.35	34.56	27.42	76.6	1.535	
975.	4.44	34.56			27.41	77.6	1200.	3.71	34.58	27.50	69.1	1.682	
1170.	3.80	34.58			27.49	70.0							
1466.	3.09	34.61			27.59	61.4							

CROMWELL 14, STATION 25, 11-31N LAT, 150-59W LCNG, MAR. 20, 1965, 0200 G.C.T.													
DRY BULB 26.6			WET BULB 23.4			WIND SPEED 16, DIR. 08		BAR. 12		WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.36	34.27			22.70	515.9	0.	25.36	34.27	22.70	515.9	0.000	
9.	25.28	34.26			22.72	514.6	10.	25.27	34.26	22.72	514.5	0.052	
30.Δ	25.10	34.24			22.76	511.6	20.	25.18	34.25	22.74	513.2	0.104	
48.	24.96	34.25			22.81	507.6	30.	25.10	34.24	22.76	511.6	0.155	
72.	23.84	34.40			23.26	465.7	50.	24.96	34.25	22.81	507.2	0.258	
96.	19.14	34.86			24.90	309.8	75.	23.34	34.47	23.46	446.6	0.378	
119.	14.88	34.43			25.58	245.2	100.	18.32	34.80	25.06	294.7	0.471	
144.	12.47	34.56			26.18	188.6	150.	12.26	34.59	26.24	182.6	0.592	
167.	11.98	34.67			26.36	172.0	200.	11.10	34.71	26.55	154.4	0.677	
192.	11.40	34.73			26.51	157.7	250.	10.38	34.70	26.68	143.1	0.752	
214.	10.64	34.66			26.59	150.0	300.	9.73	34.67	26.76	135.6	0.822	
239.	10.50	34.70			26.65	145.2	400.	8.90	34.63	26.87	127.3	0.954	
264.	10.19	34.70			26.70	140.5	500.	7.86	34.58	26.98	117.0	1.078	
287.	9.86	34.68			26.75	137.0	600.	6.90	34.54	27.09	107.6	1.191	
382.	9.08	34.64			26.84	129.1	700.	6.13	34.53	27.19	98.6	1.295	
478.	8.09	34.59			26.96	119.2	800.	5.48	34.54	27.28	90.6	1.391	
573.	7.13	34.54			27.06	110.2	1000.	4.46	34.56	27.41	78.5	1.562	
766.	5.70	34.54			27.25	93.1	1200.	3.80	34.58	27.50	70.0	1.712	
959.	4.63	34.55			27.38	80.6	1500.	3.03	34.61	27.59	61.1	1.912	
1152.	3.95	34.58			27.48	71.7	2000.	2.24	34.65	27.70	50.7	2.196	
1448.	3.14	34.60			27.57	62.6	2500.	1.87	34.67	27.74	46.8	2.445	
1937.	2.31	34.65			27.69	51.6	3000.	1.65	34.68	27.77	44.7	2.678	
2436.	1.90	34.67			27.74	47.1							
2935.	1.73	34.68			27.76	45.8							
3748.	1.46	34.70			27.79	42.9							

CROMWELL 14, STATION 26, 10- 2N LAT, 147-55W LONG, MAR. 21, 1965, 0100 G.C.T.													
DRY BULB 25.7			WET BULB 23.0			WIND SPEED 16, DIR. 09		BAR. 11		WEATHER 03		VIS. 7	CLOUD TYPE 5, COVER 6
DEPTH	TEMP.	SAL.	OKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.60	34.62	5.03		22.58	527.5	0.	26.60	34.62	22.58	527.5	0.000	
10.	26.62	34.61	4.92	0.50	22.57	529.3	10.	26.62	34.61	22.57	529.3	0.053	
20.Δ	26.61	34.61			22.57	529.4	20.	26.61	34.61	22.57	529.4	0.103	
30.Δ	26.60	34.61			22.57	529.5	30.	26.60	34.61	22.57	529.5	0.160	
51.	25.28	34.34	4.88	0.35	22.78	510.5	50.	25.41	34.35	22.75	513.6	0.265	
76.	17.74	34.63	4.40	0.75	25.07	292.4	75.	18.08	34.62	24.98	301.2	0.368	
100.	13.07	34.40	2.10	1.94	25.93	210.6	100.	13.07	34.40	25.93	210.6	0.432	
126.	12.12	34.65	0.20	2.01	26.31	175.0	150.	11.66	34.74	26.47	160.9	0.526	
153.	11.67	34.74	0.39	3.04	26.48	159.9	200.	10.83	34.74	26.62	147.1	0.603	
176.	11.22	34.74	0.43	2.42	26.55	153.4	250.	10.26	34.72	26.71	139.8	0.676	
202.	10.80	34.74	0.64	2.63	26.63	146.6	300.	9.89	34.71	26.76	135.5	0.745	
227.	10.48	34.73	0.65	2.37	26.68	142.4	400.	9.24	34.67	26.84	129.8	0.879	
252.	10.24	34.72	0.45	2.59	26.71	139.6	500.	8.43	34.63	26.94	121.7	1.006	
278.	10.03	34.71	0.48	2.39	26.74	137.4	600.	7.57	34.59	27.04	113.3	1.125	
303.	9.87	34.71	0.39	2.63	26.77	135.2	700.	6.65	34.56	27.15	103.4	1.234	
402.	9.23	34.67	0.29	2.46	26.84	129.7	800.	5.79	34.55	27.25	93.9	1.334	
505.	8.39	34.63	0.31	2.47	26.94	121.3	1000.	4.67	34.56	27.39	80.9	1.511	
605.	7.53	34.59	0.60	3.20	27.04	112.9	1200.	3.84	34.59	27.50	70.1	1.663	
807.	5.73	34.55	1.00	2.63	27.25	93.2	1500.	3.02	34.61	27.59	60.8	1.863	
1009.	4.63	34.56	1.34	2.85	27.39	80.4							
1211.	3.80	34.59	1.74	2.70	27.50	69.6							
1513.	3.00	34.61		3.19	27.60	60.6							

Δ FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 14, STATION 27, 11-30N LAT, 147-58W LONG, MAR. 21, 1965, 1100 G.C.T.													
DRY BULB 25.5		WET BULB 21.5		WIND SPEED 21, DIR. 08		BAR. 14		WEATHER 02		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.	25.89	34.36	4.91		22.61	525.0	0.	25.89	34.36	22.61	525.0	0.000	
11.	25.94	34.36	4.91	0.16	22.55	526.9	10.	25.94	34.36	22.59	526.8	0.053	
30.	25.95	34.36			22.57	528.0	20.	25.99	34.36	22.57	529.1	0.106	
52.	25.13	34.43	4.88	0.42	22.89	499.7	30.	25.95	34.36	22.59	528.0	0.159	
77.	17.42	34.56	4.15	0.87	25.10	290.1	50.	25.34	34.42	22.82	506.3	0.264	
102.	13.04	34.38	2.25	1.59	25.92	211.5	75.	18.11	34.55	24.92	306.4	0.366	
127.	12.39	34.69	0.53	2.24	26.25	177.1	100.	13.26	34.39	26.89	214.9	0.432	
154.	11.79	34.76	0.36	2.41	26.46	161.6	150.	11.87	34.76	26.45	162.9	0.527	
178.	11.44	34.77	0.48	1.99	26.53	155.1	200.	11.10	34.75	26.59	150.7	0.606	
204.	11.04	34.75	0.65	2.44	26.59	150.1	250.	10.58	34.74	26.67	143.8	0.680	
229.	10.83	34.75	0.60	2.77	26.61	147.0	300.	10.09	34.72	26.74	137.8	0.751	
254.	10.53	34.74	0.57	2.86	26.68	143.1	400.	9.39	34.68	26.83	131.4	0.887	
280.	10.30	34.74	0.64	2.30	26.72	139.8	500.	8.41	34.63	26.94	121.2	1.014	
305.	10.04	34.72	0.50	2.97	26.75	137.4	600.	7.31	34.57	27.06	110.6	1.131	
406.	9.35	34.68	0.24	3.05	26.83	131.0	700.	6.43	34.55	27.16	101.8	1.239	
507.	8.33	34.63	0.35	2.76	26.95	120.4	800.	5.74	34.54	27.24	94.1	1.338	
609.	7.21	34.57	0.49	2.78	27.07	109.7	1000.	4.72	34.57	27.39	80.9	1.515	
811.	5.68	34.54	0.79	3.06	27.25	93.4	1200.	4.02	34.58	27.47	73.0	1.671	
1013.	4.67	34.57	0.99	3.49	27.39	80.2	1500.	3.16	34.61	27.58	62.6	1.877	
1213.	3.98	34.58	1.34	3.01	27.48	72.6							
1516.	3.13	34.61	1.81	2.70	27.58	62.2							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.13

CROMWELL 14, STATION 28, 13-0N LAT, 148-0W LONG, MAR. 21, 1965, 2000 G.C.T.													
DRY BULB 24.9		WET BULB 21.3		WIND SPEED 25, DIR. 09		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.92	34.22	5.00		22.80	506.7	0.	24.92	34.22	22.80	506.7	0.000	
9.	24.92	34.22	5.05	0.27	22.80	507.0	10.	24.92	34.22	22.80	507.2	0.051	
30.	24.92	34.22			22.80	507.9	20.	24.95	34.22	22.79	508.0	0.102	
51.	24.51	34.17	4.99	0.22	22.88	500.5	30.	24.92	34.22	22.80	507.9	0.153	
76.	24.42	34.33	4.92	0.23	23.03	487.3	50.	24.53	34.17	22.88	501.0	0.255	
101.	17.59	34.55	3.86	0.93	25.05	295.5	75.	24.48	34.32	23.01	489.8	0.380	
126.	13.38	34.41	2.06	1.98	25.88	216.5	100.	17.90	34.54	24.97	303.2	0.480	
151.	10.81	34.26	3.08	1.90	26.25	180.9	150.	10.87	34.26	26.24	181.8	0.602	
175.	10.93	34.56	0.79	2.57	26.47	161.5	200.	10.77	34.62	26.54	154.8	0.687	
201.	10.76	34.62	0.53	2.56	26.54	154.7	250.	10.22	34.64	26.65	145.0	0.762	
227.	10.52	34.65	0.54	2.27	26.61	149.0	300.	9.80	34.65	26.73	138.4	0.834	
252.	10.19	34.64	0.48	2.64	26.66	144.7	400.	8.88	34.61	26.85	128.4	0.968	
277.	9.98	34.64	0.35	2.87	26.69	141.7	500.	7.79	34.56	26.98	117.2	1.092	
301.	9.79	34.65	0.46	2.51	26.73	138.3	600.	6.81	34.54	27.10	106.0	1.205	
401.	8.87	34.61	0.36	2.80	26.85	128.4	700.	5.98	34.53	27.20	96.7	1.308	
502.	7.77	34.56	0.62	3.01	26.98	117.0	800.	5.32	34.53	27.29	89.2	1.401	
603.	6.78	34.54	0.48	2.94	27.11	105.7	1000.	4.45	34.56	27.41	78.0	1.571	
803.	5.30	34.53	0.66	2.98	27.05	89.0	1200.	3.79	34.57	27.49	70.9	1.722	
1003.	4.44	34.56	0.98	3.09	27.41	77.9	1500.	3.08	34.59	27.57	63.0	1.925	
1204.	3.78	34.57	1.27	2.96	27.49	70.8							
1506.	3.07	34.59	1.63	2.67	27.57	62.9							

CROMWELL 14, STATION 29, 14-30N LAT, 147-57W LONG, MAR. 22, 1965, 0500 G.C.T.													
DRY BULB 24.8		WET BULB 21.2		WIND SPEED 20, DIR. 09		BAR. 14		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.38	34.56	4.97		22.91	495.6	0.	25.38	34.56	22.91	495.6	0.000	
13.	25.39	34.56	4.94	0.33	22.91	496.4	10.	25.41	34.56	22.91	496.5	0.050	
47.	24.31	34.34	5.14	0.31	23.07	482.4	20.	25.27	34.50	22.90	497.6	0.100	
72.	23.00	34.67	5.28	0.23	23.70	422.9	30.	25.00	34.42	22.93	495.7	0.150	
96.	20.24	34.81	5.08	0.32	24.57	340.8	50.	24.21	34.37	23.13	477.1	0.248	
120.	18.04	34.75	4.51	0.47	25.09	292.1	75.	22.68	34.70	23.82	412.3	0.360	
144.	14.30	34.37	4.12	0.97	25.66	238.3	100.	19.91	34.82	24.67	331.9	0.454	
167.	11.99	34.21	3.79	1.17	26.00	205.9	150.	13.59	34.31	25.76	228.5	0.595	
192.	10.53	34.19	3.43	1.85	26.25	182.2	200.	10.16	34.19	26.31	176.2	0.697	
215.	9.60	34.20	3.10	1.70	26.41	166.6	250.	8.75	34.23	26.58	151.4	0.780	
240.	9.00	34.23	2.46	2.07	26.54	155.3	300.	9.19	34.49	26.70	140.7	0.853	
263.	8.58	34.26	2.01	2.22	26.63	147.1	400.	8.45	34.55	26.87	126.4	0.988	
287.	9.13	34.44	0.82	2.59	26.68	142.8	500.	7.48	34.54	27.01	114.0	1.109	
382.	8.59	34.54	0.35	3.41	26.84	128.8	600.	6.42	34.51	27.13	102.7	1.219	
479.	7.73	34.55	0.37	2.58	26.98	116.7	700.	5.75	34.52	27.23	94.2	1.318	
575.	6.62	34.51	0.62	2.49	27.11	105.2	800.	5.30	34.54	27.30	87.8	1.410	
767.	5.44	34.54	0.64	2.76	27.28	89.6	1000.	4.51	34.56	27.41	78.6	1.579	
960.	4.68	34.56	0.84	2.99	27.38	80.5	1200.	3.79	34.58	27.49	70.3	1.730	
1154.	3.88	34.57	1.12		27.48	71.6							
1449.	3.12	34.60	1.61	2.64	27.58	62.3							

FROM BT DATA
*INTERPOLATED DATA

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 14, STATION 30, 16- ON LAT, 147-55W LONG, MAR. 22, 1965, 1500 G.C.T.												
DRY BULB 23.1		WET BULB 20.2		WIND SPEED 18, DIR. 08		BAR. 14		WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.50	34.27	4.99		23.26	462.8	0.	23.50	34.27	23.26	462.8	0.000
9.	23.52	34.26	4.99		23.24	464.5	10.	23.52	34.26	23.24	464.5	0.047
20.Δ	23.51	34.26			23.25	464.6	20.	23.51	34.26	23.25	464.6	0.094
30.Δ	23.42	34.24			23.26	463.9	30.	23.42	34.24	23.26	463.9	0.140
47.	22.77	34.23	5.11	0.23	23.44	447.4	50.	22.70	34.28	23.50	441.9	0.232
71.	22.36	34.72	5.05	0.22	23.92	401.8	75.	22.34	34.77	23.97	397.6	0.337
95.	21.97	34.93	4.98	0.43	24.19	377.1	100.	21.62	34.93	24.29	368.3	0.434
118.	20.25	34.88	4.98	0.26	24.62	336.7	150.	18.96	34.94	25.00	301.6	0.603
143.	19.12	34.91	4.81	0.36	24.94	307.3	200.	13.82	34.23	25.65	240.0	0.739
167.	18.20	34.90	4.72	0.36	25.16	286.6	250.	10.53	34.16	26.23	185.6	0.846
191.	14.99	34.34	4.16	0.94	25.48	256.1	300.	8.65	34.16	26.54	155.9	0.932
214.	12.28	34.15	3.55	2.06	25.90	216.8	400.	8.44	34.48	26.82	131.5	1.078
239.	11.01	34.15	4.04	1.43	26.13	194.5	500.	7.41	34.47	26.96	118.4	1.204
263.	9.98	34.17	3.14	1.83	26.33	176.7	600.	6.62	34.47	27.07	108.9	1.318
286.	8.88	34.13	3.41	2.02	26.48	161.0	700.	5.92	34.49	27.18	99.2	1.424
381.	8.62	34.46	0.58	2.78	26.78	135.1	800.	5.40	34.52	27.27	91.3	1.520
477.	7.61	34.47	0.44	2.46	26.94	120.8	1000.	4.49	34.54	27.39	80.0	1.693
572.	6.83	34.46	0.41	3.12	27.04	111.8	1200.	3.74	34.57	27.49	70.6	1.846
756.	5.63	34.51	0.52	3.20	27.23	94.2						
939.	4.76	34.53	0.70	2.88	27.35	83.5						
1124.	3.98	34.56	1.08	2.96	27.46	73.3						
1409.	3.17	34.59	2.21	3.12	27.56	63.4						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.16

CROMWELL 14, STATION 31, 17-30N LAT, 148- ON LONG, MAR. 23, 1965, 0000 G.C.T.												
DRY BULB 24.1		WET BULB 20.9		WIND SPEED 20, DIR. 09		BAR. 16		WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.68	34.33	5.05		23.25	463.5	0.	23.68	34.33	23.25	463.5	0.000
10.	23.66	34.33	5.11	0.19	23.26	463.4	10.	23.66	34.33	23.26	463.4	0.047
51.	23.40	34.30	5.00	0.31	23.31	459.8	20.	23.60	34.30	23.25	464.1	0.093
76.	23.37	34.54	5.06	0.81	23.50	442.6	30.	23.53	34.29	23.26	463.8	0.140
101.	22.80	34.94	5.09	0.26	23.97	399.0	50.	23.41	34.30	23.31	463.1	0.233
125.	21.02	35.04	4.97	0.20	24.54	345.2	75.	23.38	34.53	23.49	443.7	0.347
152.	19.71	35.08	4.95	0.26	24.92	309.9	100.	22.84	34.93	23.94	401.2	0.453
175.	19.15	35.05	4.95	0.43	25.04	299.0	150.	19.78	35.08	24.90	311.6	0.633
201.	17.94	34.85	4.72	0.80	25.19	285.2	200.	18.01	34.86	25.18	286.0	0.784
226.	14.87	34.45	4.16	1.70	25.60	246.6	250.	12.21	34.21	25.95	212.3	0.909
251.	12.12	34.20	4.23	0.95	25.96	211.1	300.	10.12	34.14	26.28	181.5	1.009
276.	10.91	34.14	4.30	1.09	26.14	194.3	400.	8.52	34.34	26.70	142.9	1.172
302.	10.07	34.14	3.87	1.83	26.29	180.5	500.	7.15	34.36	26.91	122.7	1.306
401.	8.51	34.34	1.29	1.49	26.70	142.6	600.	6.03	34.38	27.08	107.2	1.422
501.	7.14	34.36	0.85	2.54	26.92	122.5	700.	5.38	34.43	27.20	96.5	1.525
602.	6.01	34.38	0.81	2.67	27.08	106.9	800.	4.99	34.48	27.29	88.7	1.619
801.	4.99	34.48	0.87	2.62	27.29	88.7	1000.	4.34	34.54	27.41	78.2	1.788
1001.	4.34	34.54	1.04	2.54	27.41	78.1	1200.	3.72	34.56	27.49	70.8	1.939
1201.	3.72	34.56	1.22	2.46	27.49	70.8	1500.	2.93	34.61	27.60	59.7	2.137
1501.	2.93	34.61	1.62	2.54	27.60	59.7						

CROMWELL 14, STATION 32, 19- IN LAT, 147-58W LONG, MAR. 23, 1965, 0900 G.C.T.												
DRY BULB 22.7		WET BULB 20.2		WIND SPEED 18, DIR. 10		BAR. 18		WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.26	34.34	5.29		23.38	451.1	0.	23.26	34.34	23.38	451.1	0.000
10.	23.27	34.34	5.37	0.23	23.38	451.8	10.	23.27	34.34	23.38	451.8	0.045
49.	23.04	34.46	5.32	0.30	23.53	438.3	20.	23.24	34.36	23.40	450.2	0.091
76.	22.74	34.60	5.27	0.31	23.73	421.0	30.	23.19	34.38	23.43	447.3	0.136
100.	22.45	34.98	5.27	0.15	24.10	386.6	50.	23.03	34.46	23.54	437.9	0.225
126.	21.64	35.13	5.21	0.24	24.44	355.0	75.	22.75	34.59	23.72	421.9	0.334
152.	20.37	35.09	4.98	0.32	24.75	325.8	100.	22.45	34.98	24.10	386.6	0.435
176.	19.51	35.06	4.98	0.32	24.95	307.2	150.	20.47	35.10	24.73	327.8	0.615
202.	17.84	34.85	4.76	0.53	25.22	282.9	200.	18.00	34.87	25.19	285.0	0.770
228.	14.97	34.44	4.13	1.69	25.57	249.4	250.	12.74	34.21	25.85	222.1	0.898
253.	12.48	34.19	3.89	1.50	25.89	218.6	300.	10.33	34.22	26.30	179.2	0.999
277.	11.18	34.20	3.38	0.83	26.14	194.7	400.	8.28	34.33	26.72	140.1	1.160
303.	10.24	34.22	1.24	1.96	26.32	177.5	500.	7.12	34.40	26.95	119.4	1.291
404.	8.23	34.33	2.92	2.14	26.73	139.1	600.	6.56	34.44	27.06	110.0	1.407
506.	7.07	34.40	0.72	2.69	26.96	118.6	700.	5.86	34.45	27.16	100.9	1.513
605.	6.54	34.44	0.49	3.00	27.06	109.7	800.	5.18	34.46	27.25	92.6	1.611
806.	5.14	34.46	0.48	3.10	27.25	92.1	1000.	4.42	34.51	27.37	81.4	1.787
1009.	4.39	34.51	0.98	3.07	27.38	81.0	1200.	3.78	34.55	27.47	72.4	1.943
1211.	3.75	34.55	1.05	3.05	27.48	71.9	1500.	2.99	34.59	27.58	62.0	2.147
1514.	2.96	34.59	1.56	2.94	27.58	61.6						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 14, STATION 33, 20-31N LAT, 147-53W LONG, MAR. 23, 1965, 1800 G.C.T.										VIS. 8		CLOUD TYPE 8, COVER 6	
DRY BULB 22.0		WET BULB 19.5		WIND SPEED 18, DIR. 10		BAR. 18		WEATHER 02					
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.79	34.60	5.29		23.71	419.5	0.	22.79	34.60	23.71	419.5	0.000	
9.	22.78	34.61	5.39	0.09	23.72	418.8	10.	22.76	34.61	23.73	418.1	0.042	
51.	21.98	34.94	5.30	0.07	24.20	375.0	20.	22.60	34.67	23.82	410.2	0.084	
76.	21.83	35.21	5.41	0.57	24.44	352.4	30.	22.41	34.74	23.92	400.6	0.125	
102.	20.56	35.14	4.98	0.07	24.74	325.3	50.	22.00	34.93	24.18	376.4	0.203	
126.	19.16	35.05	4.83	0.19	25.04	297.5	75.	21.84	35.20	24.43	353.3	0.295	
153.	17.42	34.76	4.52	0.45	25.25	278.0	100.	20.68	35.15	24.71	327.5	0.381	
178.	16.14	34.62	4.83	0.28	25.44	260.1	150.	17.61	34.79	25.23	279.8	0.534	
203.	14.24	34.39	4.90		25.68	237.2	200.	14.47	34.42	25.66	240.0	0.665	
229.	12.79	34.28	4.98	0.88	25.90	217.3	250.	11.86	34.21	26.02	205.5	0.777	
254.	11.70	34.20	5.03	0.75	26.04	203.5	300.	10.12	34.13	26.27	181.9	0.875	
279.	10.72	34.15	5.00	0.98	26.18	190.3	400.	7.61	34.10	26.65	146.9	1.041	
304.	10.02	34.13	4.78	1.60	26.29	180.4	500.	6.15	34.17	26.90	122.8	1.177	
405.	7.50	34.10	2.43	1.93	26.66	145.4	600.	5.40	34.23	27.04	109.7	1.294	
508.	6.07	34.18	1.23	2.70	26.92	121.3	700.	4.95	34.34	27.18	97.3	1.399	
609.	5.35	34.24	0.73	3.45	27.05	108.8	800.	4.62	34.45	27.30	86.3	1.491	
811.	4.59	34.46	0.84	2.45	27.32	85.2	1000.	3.96	34.52	27.43	75.0	1.655	
1013.	3.92	34.52	1.12	2.92	27.43	74.6	1200.	3.45	34.55	27.50	68.4	1.800	
1215.	3.42	34.55	1.39	2.88	27.51	68.0	1500.	2.81	34.60	27.60	59.1	1.994	
1518.	2.78	34.60	1.73	2.87	27.61	58.7							

CROMWELL 14, STATION 34, 22- ON LAT, 147-56W LONG, MAR. 24, 1965, 0300 G.C.T.										VIS. 8		CLOUD TYPE 6, COVER 8	
DRY BULB 22.5		WET BULB 19.5		WIND SPEED 13, DIR. 12		BAR. 17		WEATHER 03					
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.27	34.85	5.32		24.05	387.3	0.	22.27	34.85	24.05	387.3	0.000	
10.	22.21	34.91	5.40	0.64	24.11	381.8	10.	22.21	34.91	24.11	381.8	0.039	
51.	21.73	35.10	5.37	0.33	24.39	356.8	20.	22.13	34.96	24.17	376.7	0.077	
75.	21.21	35.24		0.39	24.64	333.9	30.	22.03	35.00	24.23	370.9	0.115	
99.	19.93	35.13	5.22	0.47	24.90	309.9	50.	21.75	35.10	24.38	357.5	0.188	
124.	18.85	35.02	5.09	0.45	25.09	292.1	75.	21.21	35.24	24.64	333.9	0.275	
148.	17.92	34.88	5.03	0.62	25.22	280.8	100.	19.98	35.13	24.91	309.0	0.356	
172.	16.96	34.72	4.90	0.52	25.33	271.0	150.	17.85	34.87	25.23	280.2	0.504	
197.	15.25	34.50	4.92	0.84	25.55	250.1	200.	15.03	34.47	25.58	247.6	0.637	
222.	13.44	34.28	4.87	0.82	25.77	229.8	250.	11.78	34.14	25.98	209.1	0.753	
245.	12.04	34.16	4.68		25.95	212.4	300.	9.97	34.09	26.27	182.5	0.851	
271.	10.83	34.09	4.10	1.51	26.12	196.5	400.	7.79	34.07	26.60	151.4	1.020	
295.	10.10	34.09	4.03	1.96	26.24	184.5	500.	6.25	34.14	26.86	126.4	1.160	
390.	7.98	34.07	3.15	2.06	26.57	154.3	600.	5.48	34.25	27.04	109.8	1.279	
488.	6.38	34.13	1.53	2.86	26.84	128.8	700.	5.00	34.36	27.19	96.8	1.384	
585.	5.57	34.23	0.80	2.96	27.02	112.0	800.	4.66	34.44	27.29	87.4	1.477	
779.	4.74	34.43	0.81	3.69	27.27	89.0	1000.	4.03	34.51	27.41	76.8	1.643	
974.	4.11	34.50	1.11	3.30	27.40	78.0	1200.	3.49	34.55	27.50	68.8	1.791	
1169.	3.58	34.54	1.22	2.89	27.48	70.3							
1463.	2.90	34.58	1.51	3.42	27.58	61.3							

CROMWELL 14, STATION 35, 23-30N LAT, 148- OW LONG, MAR. 24, 1965, 1200 G.C.T.										VIS. 6		CLOUD TYPE , COVER	
DRY BULB 21.1		WET BULB 19.1		WIND SPEED 18, DIR. 10		BAR. 18		WEATHER 60					
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.00	34.85	5.34		24.12	380.1	0.	22.00	34.85	24.12	380.1	0.000	
10.	22.00	34.84	5.33	0.13	24.12	381.2	10.	22.00	34.84	24.12	381.2	0.038	
51.	22.02	34.86	5.35	0.29	24.13	381.8	20.	22.00	34.82	24.10	382.9	0.077	
75.	22.05	35.05	5.27	0.21	24.26	369.8	30.	22.01	34.82	24.10	383.6	0.115	
100.	21.42	35.29	5.14	0.26	24.62	336.7	50.	22.02	34.86	24.12	382.0	0.193	
127.	20.31	35.20	5.09	0.32	24.85	315.4	75.	22.05	35.05	24.26	369.9	0.287	
151.	19.13	35.05	4.90		25.04	297.6	100.	21.42	35.29	24.62	336.7	0.376	
175.	19.02	35.09	5.08	0.40	25.10	292.9	150.	19.17	35.06	25.04	298.2	0.536	
201.	17.86	34.89	4.95	0.85	25.24	280.4	200.	17.92	34.90	25.23	281.0	0.682	
227.	16.03	34.60	4.90	0.63	25.45	260.6	250.	14.07	34.35	25.69	238.0	0.813	
250.	14.07	34.35	4.90	0.74	25.69	238.0	300.	11.30	34.14	26.08	201.4	0.924	
275.	12.55	34.24	4.89	0.92	25.91	216.8	400.	8.41	34.05	26.49	162.5	1.107	
301.	11.25	34.14	5.00	1.18	26.08	200.9	500.	6.36	34.03	26.76	136.2	1.258	
401.	8.39	34.05	4.03	1.90	26.49	162.2	600.	5.25	34.13	26.98	115.8	1.385	
502.	6.33	34.03	2.53	2.21	26.77	135.7	700.	4.74	34.27	27.15	100.3	1.495	
602.	5.24	34.13	1.11	3.36	26.98	115.5	800.	4.50	34.40	27.28	88.7	1.590	
802.	4.50	34.40	0.65	3.12	27.28	88.5	1000.	4.00	34.51	27.42	76.2	1.757	
1003.	3.99	34.51	1.04	3.36	27.42	76.1	1200.	3.50	34.55	27.50	68.8	1.904	
1203.	3.49	34.55	1.26	2.78	27.50	68.7	1500.	2.90	34.58	27.58	61.4	2.102	
1504.	2.89	34.58	1.62	3.63	27.58	61.4							

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 14, STATION 36, 25- ON LAT, 148- 7N LONG, MAR. 24, 1965, 2100 G.C.T.												
DRY BULB 19.2	WET BULB 17.7		WIND SPEED 14, DIR. 08		BAR. 19		WEATHER 60		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
C.	21.07	35.01	4.62		24.50	344.1	0.	21.07	35.01	24.50	344.1	0.000
10.	21.16	35.04	4.80	0.21	24.50	344.6	10.	21.16	35.04	24.50	344.6	0.035
51.	20.89	35.26	4.57	0.21	24.74	323.2	20.	21.13	35.10	24.55	339.8	0.069
76.	20.90	35.26	4.56	0.36	24.74	324.4	30.	21.07	35.15	24.61	334.7	0.103
101.	20.82	35.26	4.58	0.19	24.76	323.2	50.	20.90	35.26	24.73	323.8	0.169
125.	20.58	35.23	4.56	0.36	24.80	320.1	75.	20.90	35.26	24.74	324.3	0.251
151.	19.07	35.06	4.29	0.28	25.07	295.4	100.	20.83	35.26	24.76	323.3	0.333
175.	17.80	34.87	4.21	0.34	25.24	279.6	150.	19.14	35.07	25.06	296.5	0.489
201.	16.39	34.66	4.17	1.13	25.42	263.4	200.	16.45	34.67	25.41	264.1	0.630
226.	14.72	34.46	4.25	0.53	25.64	242.7	250.	13.45	34.33	25.80	227.0	0.754
250.	13.45	34.33	4.24	0.74	25.80	227.0	300.	11.59	34.20	26.06	202.7	0.862
276.	12.34	34.26	4.34	0.99	25.97	211.4	400.	9.18	34.09	26.40	171.6	1.051
299.	11.62	34.20	4.37	0.97	26.06	203.1	500.	6.86	34.00	26.67	145.1	1.211
400.	9.18	34.09	4.11	1.41	26.40	171.6	600.	5.41	34.11	26.94	119.2	1.344
502.	6.82	34.00	2.89	2.30	26.68	144.6	700.	4.63	34.23	27.13	101.8	1.456
601.	5.40	34.11	1.10	3.00	26.95	119.0	800.	4.23	34.34	27.26	89.9	1.553
802.	4.23	34.34	1.00	3.43	27.26	89.7	1000.	3.80	34.48	27.41	76.1	1.721
1003.	3.80	34.48	1.07	3.24	27.42	76.0	1200.	3.35	34.53	27.50	68.5	1.868
1204.	3.34	34.53	1.13	3.00	27.50	68.4	1500.	2.81	34.58	27.59	60.4	2.064
1505.	2.80	34.58	1.45	2.74	27.59	60.3						

CROMWELL 14, STATION 37, 26-28N LAT, 148- 4W LONG, MAR. 25, 1965, 0600 G.C.T.												
DRY BULB 18.0	WET BULB 16.6		WIND SPEED 10, DIR. 01		BAR. 16		WEATHER 60		VIS. 7		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	20.82	35.06	4.69		24.61	334.0	0.	20.82	35.06	24.61	334.0	0.000
8.	20.91	35.20	4.69	0.42	24.69	326.5	10.	20.92	35.22	24.70	325.6	0.033
50.	20.58	35.23	4.69	0.11	24.80	317.4	20.	20.91	35.27	24.74	321.7	0.066
75.	20.13	35.21	4.69	0.11	24.91	308.3	30.	20.85	35.29	24.78	319.0	0.098
99.	19.99	35.21	4.48	0.32	24.94	305.6	50.	20.58	35.23	24.80	317.4	0.162
123.	19.86	35.20	4.65	0.11	24.97	303.9	75.	20.13	35.21	24.91	308.3	0.241
149.	19.72	35.18	4.63	0.09	24.99	302.8	100.	19.98	35.21	24.94	305.5	0.318
173.	17.97	34.89	4.34	0.17	25.21	282.1	150.	19.66	35.17	25.00	302.1	0.471
199.	16.11	34.63	4.41	1.30	25.46	259.3	200.	16.04	34.62	25.47	258.5	0.613
223.	14.68	34.46	4.34	0.38	25.64	241.8	250.	13.40	34.33	25.81	226.1	0.735
248.	13.51	34.34	4.34	0.47	25.80	227.4	300.	11.26	34.16	26.10	199.3	0.842
272.	12.22	34.22	4.25	0.90	25.96	212.0	400.	8.77	34.07	26.45	166.3	1.027
296.	11.38	34.17	4.32	1.32	26.08	200.9	500.	6.37	34.02	26.75	136.9	1.180
394.	8.94	34.08	3.96	2.20	26.43	168.4	600.	5.30	34.10	26.95	118.6	1.309
495.	6.45	34.02	2.56	0.94	26.74	138.0	700.	4.65	34.20	27.10	104.1	1.421
593.	5.35	34.09	1.35	2.41	26.94	119.7	800.	4.26	34.31	27.23	92.4	1.521
792.	4.29	34.30	0.45	3.00	27.22	93.3	1000.	3.69	34.47	27.42	75.2	1.690
992.	3.71	34.47	0.77	2.96	27.42	75.6	1200.	3.25	34.55	27.52	66.1	1.833
1192.	3.29	34.52	1.08	3.95	27.50	68.5	1500.	2.72	34.58	27.60	59.3	2.024
1500.	2.72	34.58	1.42	2.91	27.60	59.3						

CROMWELL 14, STATION 38, 25- 2N LAT, 151- 3W LONG, MAR. 26, 1965, 0000 G.C.T.												
DRY BULB 20.1	WET BULB 15.0		WIND SPEED 16, DIR. 29		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.95	34.41			23.80	410.6	0.	21.95	34.41	23.80	410.6	0.000
10.	21.88	34.41			23.82	409.1	10.	21.88	34.41	23.82	409.1	0.041
51.	21.74	35.22			24.48	348.4	20.	21.85	34.59	23.97	395.5	0.082
75.	21.49	35.24			24.56	341.2	30.	21.82	34.78	24.12	381.1	0.121
100.	20.59	35.15			24.74	325.2	50.	21.74	35.20	24.46	350.0	0.195
124.	19.59	35.06			24.93	307.3	75.	21.49	35.24	24.56	341.2	0.282
149.	19.08	35.05			25.06	296.3	100.	20.59	35.15	24.74	325.2	0.366
174.	18.00	34.89			25.21	282.8	150.	19.05	35.05	25.06	295.9	0.522
199.	15.95	34.58			25.45	259.5	200.	15.88	34.57	25.46	258.7	0.662
224.	14.50	34.42			25.65	241.0	250.	13.15	34.29	25.83	224.0	0.784
248.	13.26	34.30			25.82	225.4	300.	10.92	34.15	26.14	194.6	0.889
273.	11.93	34.19			25.99	208.8	400.	8.26	34.05	26.51	160.4	1.068
297.	11.02	34.15			26.13	196.0	500.	6.45	34.02	26.74	137.9	1.219
395.	8.37	34.05			26.49	161.8	600.	5.52	34.10	26.92	121.4	1.350
496.	6.50	34.02			26.74	138.7	700.	4.88	34.21	27.08	106.2	1.465
594.	5.56	34.09			26.91	122.4	800.	4.45	34.33	27.23	93.2	1.566
792.	4.48	34.32			27.22	94.1	1000.	3.94	34.49	27.41	76.6	1.737
990.	3.96	34.49			27.41	77.1	1200.	3.48	34.53	27.49	69.9	1.886
1187.	3.51	34.53			27.48	70.3	1500.	2.84	34.58	27.59	60.7	2.084
1485.	2.87	34.58			27.58	61.0	2000.	2.11	34.63	27.69	50.9	2.368
2024.	2.08	34.63			27.69	50.6	2500.	1.67	34.66	27.75	45.1	2.612
2522.	1.66	34.66			27.75	45.0	3000.	1.59	34.68	27.77	44.1	2.840
3024.	1.59	34.68			27.77	44.2	4000.	1.48	34.70	27.79	43.9	3.291
4028.	1.48	34.70			27.79	43.9						
4912.	1.49	34.71			27.80	45.7						

SALINITY ERROR TERM AT 20. METERS IS 0.07
 SALINITY ERROR TERM AT 30. METERS IS 0.09

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 18.7		14, STATION WET BULB 14.8	39, 24-57N LAT, 154- 1W LONG, MAR. 26, 1965, 1900 G.C.T.	WIND SPEED 17, DIR. 27	BAR. 18	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.87	35.15	4.64		24.39	355.0	0.	21.87	35.15	24.39	355.0	0.000
9.	21.85	35.15	4.64	0.28	24.39	354.8	10.	21.84	35.15	24.40	354.6	0.036
49.	21.60	35.19	4.62	0.82	24.49	346.8	20.	21.79	35.16	24.47	352.9	0.071
75.	21.50	35.20	4.52	1.18	24.53	344.4	30.	21.73	35.17	24.44	351.0	0.107
99.	21.20	35.22	4.51	0.28	24.61	335.9	50.	21.60	35.19	24.49	346.7	0.177
123.	21.10	35.22	4.54	0.46	24.65	334.2	75.	21.50	35.20	24.53	344.4	0.264
148.	20.62	35.24	4.34	0.34	24.80	321.2	100.	21.20	35.22	24.63	335.9	0.350
173.	20.20	35.26	4.29	0.40	24.93	310.0	150.	20.58	35.24	24.81	320.3	0.515
199.	19.81	35.27	4.30	0.39	25.04	300.3	200.	19.81	35.27	25.04	300.3	0.672
223.	19.42	35.19	4.28	0.60	25.08	297.2	250.	17.50	34.85	25.30	276.5	0.817
248.	17.62	34.87	4.19	0.65	25.28	277.8	300.	13.35	34.32	25.82	227.1	0.944
273.	15.97	34.62	4.22	0.53	25.48	259.2	400.	10.03	34.12	26.28	183.1	1.191
297.	13.54	34.34	4.29	0.74	25.79	229.3	500.	7.32	34.02	26.62	150.2	1.319
396.	10.16	34.13	4.28	1.34	26.27	184.7	600.	5.79	34.08	26.88	125.8	1.459
497.	7.38	34.02	3.01	2.24	26.62	151.0	700.	4.94	34.18	27.07	108.0	1.577
596.	5.83	34.08	1.47	3.04	26.87	126.6	800.	4.49	34.31	27.21	94.6	1.679
796.	4.50	34.31	0.60	2.91	27.21	95.1	1000.	3.94	34.47	27.40	78.1	1.854
993.	3.96	34.47	0.96	3.04	27.39	78.6	1200.	3.43	34.55	27.51	68.1	2.002
1192.	3.43	34.53	1.16	3.37	27.49	69.4						
1493.	2.85	34.58	1.46	3.07	27.59	60.8						

CROMWELL DRY BULB 19.6		14, STATION WET BULB 15.7	40, 24-59N LAT, 157- 0W LONG, MAR. 27, 1965, 1200 G.C.T.	WIND SPEED 21, DIR. 29	BAR. 17	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 1				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.58	35.21			24.51	343.0	0.	21.58	35.21	24.51	343.0	0.000
9.	21.58	35.20			24.51	344.0	10.	21.58	35.20	24.51	344.1	0.035
50.	21.54	35.21			24.52	343.8	20.	21.59	35.20	24.50	344.7	0.069
75.	21.39	35.21			24.57	340.8	30.	21.58	35.20	24.51	344.8	0.104
101.	20.91	35.20			24.69	329.9	50.	21.54	35.21	24.52	343.9	0.173
126.	20.19	35.19			24.88	313.1	75.	21.39	35.21	24.57	340.8	0.260
151.	19.61	35.14			24.99	303.0	100.	20.93	35.20	24.68	330.5	0.344
176.	18.80	34.98			25.08	295.5	150.	19.63	35.14	24.99	303.3	0.504
201.	17.76	34.85			25.23	281.0	200.	17.80	34.86	25.23	281.6	0.651
226.	16.80	34.71			25.36	269.8	250.	15.16	34.51	25.57	249.3	0.785
252.	15.02	34.49			25.59	247.6	300.	12.47	34.22	25.91	217.3	0.903
278.	13.68	34.35			25.77	230.9	400.	8.95	34.08	26.43	168.8	1.097
302.	12.36	34.21			25.93	216.1	500.	7.04	34.07	26.70	142.5	1.255
403.	8.88	34.08			26.44	167.6	600.	5.55	34.10	26.92	121.7	1.388
504.	6.98	34.07			26.71	141.7	700.	4.75	34.19	27.09	105.9	1.503
604.	5.50	34.10			26.93	121.0	800.	4.35	34.30	27.22	93.8	1.604
805.	4.34	34.31			27.22	93.2	1000.	3.86	34.45	27.38	79.1	1.779
1005.	3.85	34.45			27.39	78.8	1200.	3.35	34.53	27.50	68.7	1.929
1206.	3.34	34.53			27.50	68.4	1500.	2.76	34.59	27.60	59.1	2.123
1507.	2.75	34.59			27.60	59.0						

CROMWELL DRY BULB 20.1		14, STATION WET BULB 17.1	41, 23-30N LAT, 157- 0W LONG, MAR. 27, 1965, 2200 G.C.T.	WIND SPEED 20, DIR. 29	BAR. 19	WEATHER 03	VIS. 8	CLOUD TYPE 2, COVER 5				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.46	35.15			24.22	370.8	0.	22.46	35.15	24.22	370.8	0.000
10.	22.47	35.14			24.21	372.2	10.	22.47	35.14	24.21	372.2	0.037
50.	22.03	35.21			24.39	356.8	20.	22.38	35.15	24.25	369.1	0.075
76.	21.94	35.21			24.41	355.4	30.	22.28	35.17	24.29	365.6	0.112
102.	21.61	35.21			24.51	347.6	50.	22.03	35.21	24.39	356.8	0.185
128.	21.23	35.19			24.60	340.0	75.	21.94	35.21	24.41	355.4	0.274
153.	19.50	35.06			24.96	306.1	100.	21.64	35.21	24.50	348.3	0.363
177.	18.10	34.87			25.17	286.7	150.	19.74	35.08	24.91	310.4	0.529
203.	16.30	34.64			25.42	262.9	200.	16.51	34.67	25.39	265.7	0.674
229.	14.58	34.43			25.64	242.1	250.	13.57	34.33	25.77	229.7	0.799
254.	13.40	34.31			25.80	227.6	300.	11.43	34.15	26.06	203.3	0.908
280.	12.24	34.20			25.94	214.0	400.	8.72	34.06	26.45	166.5	1.095
305.	11.24	34.14			26.08	200.8	500.	6.58	34.04	26.74	138.6	1.249
406.	8.60	34.06			26.47	164.8	600.	5.23	34.16	27.01	112.9	1.376
508.	6.44	34.04			26.76	136.6	700.	4.67	34.30	27.18	97.0	1.482
610.	5.14	34.18			27.03	110.6	800.	4.45	34.41	27.29	87.2	1.575
812.	4.44	34.42			27.30	86.4	1000.	3.84	34.51	27.43	74.5	1.738
1014.	3.80	34.51			27.44	73.9	1200.	3.33	34.56	27.52	66.2	1.881
1216.	3.29	34.56			27.53	65.7	1500.	2.75	34.59	27.60	58.9	2.071
1519.	2.72	34.59			27.61	58.7						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

Table 1.--Continued

ORIGINAL DATA			DERIVED DATA			INTERPOLATED DATA								
CROMWELL 14, STATION 42, 22- ON LAT, 197- 2W LONG, MAR. 28, 1965, 0900 G.C.T.														
DRY BULB	21.4	WET BULB	17.6	WIND SPEED	08, DIR. 34	BAR.	19	WEATHER	01	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.	22.56	35.15			24.19	373.5	0.	22.56	35.15	24.19	373.5	0.000		
9.	22.58	35.15			24.19	374.4	10.	22.58	35.15	24.19	374.3	0.038		
50.	22.24	35.19			24.31	363.9	20.	22.54	35.16	24.21	373.0	0.075		
75.	21.91	35.20			24.41	355.2	30.	22.47	35.17	24.23	370.8	0.113		
99.	21.50	35.20			24.53	345.3	50.	22.24	35.19	24.31	363.9	0.187		
123.	20.29	35.11			24.79	321.3	75.	21.91	35.20	24.41	355.2	0.277		
149.	18.55	34.93			25.10	292.2	100.	21.46	35.20	24.54	344.4	0.365		
173.	17.49	34.79			25.25	278.1	150.	18.50	34.92	25.11	291.5	0.526		
197.	16.27	34.64			25.43	262.1	200.	16.18	34.63	25.44	261.1	0.665		
222.	15.42	34.53			25.54	252.3	250.	13.43	34.33	25.80	227.0	0.788		
247.	13.58	34.34			25.78	228.8	300.	11.17	34.17	26.12	197.0	0.895		
272.	12.48	34.25			25.93	214.7	400.	8.52	34.13	26.53	158.5	1.074		
296.	11.32	34.18			26.10	199.1	500.	6.57	34.13	26.81	131.8	1.221		
394.	8.67	34.13			26.51	160.5	600.	5.58	34.24	27.03	111.7	1.344		
493.	6.66	34.12			26.79	133.4	700.	5.00	34.35	27.18	97.5	1.449		
592.	5.64	34.23			27.01	113.0	800.	4.65	34.44	27.29	87.6	1.543		
790.	4.68	34.43			27.28	88.4	1000.	4.06	34.51	27.42	76.6	1.709		
987.	4.10	34.51			27.41	77.2	1200.	3.48	34.56	27.51	68.0	1.856		
1185.	3.48	34.55			27.50	68.5								
1482.	2.86	34.59			27.59	60.2								

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 15

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 15, STATION 1, 20-35N LAT, 157-12W LONG, APR. 12, 1965, 0900 G.C.T.												
DRY BULB 23.8		WET BULB 20.2		WIND SPEED 06, DIR. 10		BAR. 18		WEATHER 02		VIS. 7 CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.64	34.40			23.02	485.7	0.	24.64	34.40	23.02	485.7	0.000
14.	24.65	34.41			23.02	485.8	10.	24.66	34.40	23.01	486.5	0.049
48.	24.22	34.66			23.34	456.8	20.	24.67	34.44	23.05	483.1	0.098
73.	23.56	34.73			23.74	419.7	30.	24.52	34.50	23.13	476.3	0.146
96.	22.34	35.01			24.15	381.3	50.	24.19	34.68	23.37	454.2	0.240
119.	21.55	35.12			24.45	353.1	75.	23.46	34.94	23.78	416.2	0.349
146.	20.77	35.14			24.68	332.3	100.	22.19	35.03	24.21	375.7	0.449
170.	20.06	35.10			24.84	317.9	150.	20.67	35.14	24.71	329.9	0.627
134.	18.89	34.93			25.05	298.3	200.	18.52	34.94	25.11	292.6	0.786
217.	17.38	34.80			25.29	276.2	250.	15.07	34.53	25.61	245.8	0.920
243.	15.65	34.60			25.54	252.8	300.	12.24	34.26	25.99	210.4	1.035
266.	13.82	34.38			25.76	231.2	400.	8.75	34.15	26.51	160.7	1.222
291.	12.63	34.25			25.93	215.8	500.	6.73	34.18	26.84	129.7	1.368
387.	9.12	34.15			26.45	165.9	600.	5.81	34.30	27.05	110.1	1.490
485.	6.93	34.17			26.80	133.3	700.	5.18	34.39	27.20	96.3	1.594
581.	5.95	34.23			27.01	113.2	800.	4.74	34.46	27.30	86.9	1.686
777.	4.84	34.45			27.28	88.7	1000.	4.05	34.53	27.43	75.6	1.851
973.	4.14	34.52			27.41	76.9	1200.	3.48	34.57	27.52	67.1	1.995
1169.	3.56	34.56			27.50	68.6						
1469.	2.88	34.60			27.60	59.6						

CROMWELL 15, STATION 2, 19-1N LAT, 156-58W LONG, APR. 12, 1965, 1900 G.C.T.												
DRY BULB 23.3		WET BULB 20.8		WIND SPEED 28, DIR. 12		BAR. 16		WEATHER 02		VIS. 7 CLOUD TYPE 1, COVER 6		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.14	34.39			23.16	472.1	0.	24.14	34.39	23.16	472.1	0.000
9.	24.14	34.38			23.15	473.2	10.	24.14	34.38	23.15	473.2	0.048
30.Δ	24.15	34.42			23.18	471.4	20.	24.14	34.40	23.16	472.6	0.095
51.	24.15	34.44			23.19	470.8	30.	24.15	34.42	23.18	471.4	0.143
76.	23.60	34.86			23.67	426.0	50.	24.15	34.44	23.19	471.2	0.238
101.	22.90	35.02			24.00	396.0	75.	23.63	34.84	23.65	428.1	0.351
125.	22.04	35.17			24.36	362.8	100.	22.93	35.02	23.99	397.1	0.455
152.	20.54	35.03			24.66	334.5	150.	20.66	35.04	24.64	336.5	0.640
177.	19.21	35.00			24.99	304.1	200.	17.20	34.70	25.26	278.6	0.795
203.	16.92	34.66			25.29	275.4	250.	12.90	34.30	25.91	216.8	0.920
228.	15.04	34.50			25.60	246.6	300.	10.60	34.21	26.25	184.1	1.021
252.	12.60	34.28			25.93	214.3	400.	8.27	34.17	26.60	151.5	1.190
278.	11.02	34.23			26.19	189.7	500.	6.34	34.22	26.92	121.6	1.328
304.	10.56	34.21			26.26	183.7	600.	5.57	34.33	27.10	104.8	1.442
404.	8.17	34.17			26.62	150.0	700.	5.11	34.42	27.22	93.5	1.542
507.	6.24	34.23			26.94	119.8	800.	4.75	34.48	27.31	85.9	1.633
608.	5.54	34.34			27.11	103.8	1000.	4.10	34.47	27.38	80.2	1.801
810.	4.72	34.46			27.32	85.4	1200.	3.43	34.58	27.53	65.6	1.949
1012.	4.06	34.47			27.38	79.9	1500.	2.90	34.59	27.59	60.8	2.141
1213.	3.39	34.59			27.54	64.7						
1516.	2.83	34.59			27.59	60.6						

CROMWELL 15, STATION 3, 17-30N LAT, 157-1W LONG, APR. 13, 1965, 0400 G.C.T.												
DRY BULB 24.5		WET BULB 22.2		WIND SPEED 14, DIR. 11		BAR. 15		WEATHER 02		VIS. 7 CLOUD TYPE 2, COVER 7		
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	23.98	34.49			23.28	460.4	0.	23.98	34.49	23.28	460.4	0.000
10.	24.02	34.48			23.26	462.6	10.	24.02	34.48	23.26	462.6	0.046
30.Δ	23.94	34.54			23.33	456.8	20.	24.00	34.50	23.29	460.8	0.093
51.	23.78	34.63			23.45	446.6	30.	23.94	34.54	23.33	456.8	0.139
76.	22.77	35.06			24.07	389.6	50.	23.80	34.62	23.44	447.6	0.230
101.	21.07	34.94			24.45	352.9	75.	22.93	35.04	24.04	391.2	0.336
125.	20.30	35.05			24.74	326.0	100.	21.14	34.95	24.44	354.0	0.430
152.	17.94	34.74			25.11	291.5	150.	18.13	34.77	25.08	293.9	0.593
176.	16.60	34.63			25.34	269.5	200.	14.54	34.46	25.67	238.4	0.727
201.	14.45	34.45			25.69	237.1	250.	11.26	34.25	26.16	191.8	0.836
227.	12.54	34.27			25.94	213.2	300.	9.96	34.34	26.46	164.1	0.925
250.	11.26	34.25			26.16	191.8	400.	8.51	34.42	26.76	136.8	1.077
277.	10.44	34.29			26.34	175.2	500.	7.23	34.44	26.97	117.9	1.206
302.	9.92	34.34			26.47	163.3	600.	6.54	34.47	27.08	107.5	1.320
402.	8.49	34.42			26.76	136.4	700.	5.94	34.48	27.17	99.7	1.424
504.	7.19	34.44			26.97	117.4	800.	5.40	34.49	27.25	93.2	1.522
605.	6.31	34.47			27.09	107.1	1000.	4.45	34.52	27.38	81.0	1.698
806.	5.37	34.49			27.25	92.9	1200.	3.88	34.56	27.47	72.8	1.854
1007.	4.42	34.52			27.38	80.6	1500.	3.12	34.59	27.57	63.5	2.061
1208.	3.86	34.56			27.47	72.5						
1510.	3.10	34.59			27.57	63.2						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA			DERIVED DATA				INTERPOLATED DATA					
CROMWELL 15, STATION 4, 15-59N LAT, 157- 1W LONG, APR. 13, 1965, 1400 G.C.T.												
DRY BULB 24.5	WET BULB 22.7		WIND SPEED 18, DIR. 10	BAR. 13	WEATHER 13	VIS. 6	CLOUD TYPE 5, COVER 7					
DEPTH	TEMP.	SAL.	CHL. OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.49	34.19			22.90	496.5	0.	24.49	34.19	22.90	496.5	0.000
10.	24.48	34.19			22.91	496.6	10.	24.48	34.19	22.91	496.6	0.050
30.Δ	24.48	34.19			22.91	497.4	20.	24.48	34.19	22.91	496.9	0.100
50.	24.49	34.19			22.90	498.4	30.	24.48	34.19	22.91	497.4	0.150
74.	24.42	34.20			22.93	496.6	50.	24.49	34.19	22.90	498.4	0.250
99.	21.61	34.83			24.22	374.9	75.	24.32	34.22	22.98	492.2	0.375
123.	20.05	34.96			24.74	326.1	100.	21.53	34.84	24.25	372.0	0.484
148.	18.44	34.81			25.04	298.2	150.	18.18	34.78	25.08	294.2	0.652
171.	15.36	34.49			25.52	252.4	200.	12.76	34.33	25.94	212.5	0.780
196.	13.02	34.33			25.89	217.2	250.	10.47	34.36	26.39	169.7	0.876
221.	11.65	34.35			26.17	190.8	300.	9.57	34.44	26.61	150.2	0.957
245.	10.67	34.37			26.36	172.5	400.	8.07	34.45	26.86	127.5	1.097
270.	9.83	34.35			26.49	160.4	500.	7.07	34.48	27.02	112.5	1.218
294.	9.65	34.43			26.59	152.0	600.	6.24	34.48	27.13	102.4	1.326
389.	8.20	34.45			26.83	129.6	700.	5.61	34.50	27.22	94.4	1.426
490.	7.16	34.48			27.01	113.8	800.	5.13	34.51	27.29	88.2	1.518
588.	6.32	34.48			27.12	103.5	1000.	4.38	34.53	27.40	79.0	1.687
785.	5.20	34.51			27.29	88.9	1200.	3.79	34.57	27.49	70.8	1.839
982.	4.44	34.53			27.39	79.9						
1178.	3.87	34.58			27.49	70.9						
1477.	3.16	34.60			27.57	63.0						

CROMWELL 15, STATION 5, 14-34N LAT, 156-59W LONG, APR. 13, 1965, 2300 G.C.T.												
DRY BULB 23.6	WET BULB 21.0		WIND SPEED 16, DIR. 11	BAR. 18	WEATHER 15	VIS. 7	CLOUD TYPE 8, COVER 6					
DEPTH	TEMP.	SAL.	CHL. OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.65	33.80			22.56	529.2	0.	24.65	33.80	22.56	529.2	0.000
9.Δ	24.68	34.18			22.84	503.0	10.	24.68	34.19	22.85	502.0	0.052
30.	24.64	34.20			22.87	501.2	20.	24.67	34.27	22.91	496.8	0.102
52.	24.62	34.21			22.88	500.8	30.	24.64	34.20	22.87	501.2	0.153
77.	23.87	34.53			23.40	452.4	50.	24.63	34.20	22.87	501.6	0.254
101.	21.64	34.87			24.20	376.5	75.	23.93	34.55	23.34	457.8	0.374
127.	19.04	34.79			24.87	313.4	100.	21.75	34.81	24.17	379.7	0.480
153.	15.19	34.45			25.53	251.2	150.	15.63	34.49	25.46	257.4	0.640
178.	12.75	34.25			25.88	217.4	200.	11.51	34.27	26.13	193.9	0.754
204.	11.34	34.28			26.17	189.9	250.	10.00	34.45	26.54	155.5	0.842
228.	10.26	34.33			26.40	168.1	300.	9.45	34.51	26.68	142.7	0.917
254.	9.99	34.47			26.56	153.9	400.	7.83	34.45	26.89	124.0	1.052
279.	9.76	34.52			26.64	146.9	500.	6.89	34.49	27.05	109.6	1.170
305.	9.37	34.51			26.69	141.8	600.	6.04	34.49	27.17	99.1	1.275
406.	7.74	34.45			26.90	123.0	700.	5.45	34.51	27.25	91.5	1.372
508.	6.83	34.49			27.06	108.6	800.	5.02	34.53	27.32	85.5	1.461
608.	5.98	34.49			27.17	98.4	1000.	4.29	34.55	27.42	76.9	1.625
811.	4.98	34.53			27.33	84.9	1200.	3.58	34.58	27.51	67.8	1.772
1013.	4.25	34.55			27.42	76.4	1500.	2.83	34.61	27.61	58.6	1.964
1216.	3.53	34.53			27.52	67.1						
1519.	2.79	34.61			27.61	58.1						

SALINITY ERROR TERM AT 20. METERS IS 0.05

CROMWELL 15, STATION 6, 12-58N LAT, 156-57W LONG, APR. 14, 1965, 0900 G.C.T.												
DRY BULB 25.7	WET BULB 23.5		WIND SPEED 12, DIR. 13	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6					
DEPTH	TEMP.	SAL.	CHL. OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.87	34.42			22.66	520.1	0.	25.87	34.42	22.66	520.1	0.000
9.	25.90	34.43			22.66	520.6	10.	25.90	34.43	22.66	520.6	0.052
49.	25.85	34.44			22.68	520.0	20.	25.91	34.44	22.66	520.7	0.105
74.	25.76	34.42			22.69	519.8	30.	25.90	34.44	22.67	520.6	0.157
97.	22.53	34.77			23.91	403.8	50.	25.88	34.44	22.67	521.3	0.262
121.	16.74	34.51			25.22	279.7	75.	25.67	34.44	22.73	516.0	0.393
145.	14.04	34.42			25.75	229.4	100.	21.79	34.75	24.11	385.4	0.506
169.	11.73	34.28			26.10	196.1	150.	13.48	34.38	25.84	221.1	0.659
194.	10.96	34.40			26.34	174.2	200.	10.86	34.45	26.39	168.7	0.758
217.	10.64	34.58			26.53	156.0	250.	10.17	34.58	26.62	148.4	0.837
240.	10.33	34.58			26.59	151.2	300.	9.58	34.60	26.73	138.9	0.910
266.	9.93	34.59			26.66	144.3	400.	8.74	34.62	26.88	125.4	1.043
290.	9.68	34.59			26.71	140.7	500.	7.90	34.56	26.97	118.7	1.166
385.	8.85	34.63			26.87	126.3	600.	6.83	34.54	27.10	106.5	1.280
481.	8.11	34.57			26.94	121.0	700.	6.07	34.53	27.19	98.1	1.384
578.	7.02	34.54			27.07	108.7	800.	5.51	34.53	27.27	91.6	1.479
773.	5.65	34.53			27.25	93.2	1000.	4.66	34.55	27.38	81.1	1.654
967.	4.79	34.55			27.36	82.7	1200.	3.93	34.57	27.48	72.2	1.809
1159.	4.06	34.57			27.46	73.9						
1451.	3.21	34.60			27.57	63.5						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.10

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA									
CROMWELL 15, STATION		7, 11-29N LAT, 156-54W LONG, APR. 14, 1965, 1800 G.C.T.		DRY BULB 25.4		WET BULB 23.9		WIND SPEED 13, DIR. 10		BAR. 16		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	26.31	34.57			22.63	522.4	0.	26.31	34.57	22.63	522.4	0.000					
9.	26.41	34.57			22.60	525.8	10.	26.41	34.57	22.60	525.9	0.053					
30.Δ	26.40	34.57			22.61	526.3	20.	26.43	34.57	22.60	526.7	0.106					
51.	26.38	34.57			22.61	526.6	30.	26.40	34.57	22.61	526.3	0.159					
76.	20.90	34.75			24.31	364.9	50.	26.43	34.57	22.60	528.1	0.265					
101.	16.86	34.60			25.26	275.2	75.	21.16	34.70	24.24	372.0	0.378					
126.	13.76	34.41			25.80	224.0	100.	17.00	34.61	25.23	277.8	0.460					
152.	11.42	34.54			26.29	178.2	150.	11.92	34.52	26.25	181.2	0.576					
178.	11.28	34.66			26.48	160.3	200.	10.97	34.72	26.59	150.7	0.660					
203.	10.94	34.73			26.60	149.8	250.	10.47	34.72	26.67	143.4	0.734					
227.	10.70	34.73			26.64	146.2	300.	10.06	34.72	26.74	137.7	0.805					
252.	10.45	34.72			26.67	143.2	400.	9.30	34.68	26.84	130.0	0.940					
279.	10.20	34.72			26.72	139.5	500.	8.43	34.63	26.94	121.5	1.067					
304.	10.04	34.72			26.75	137.4	600.	7.38	34.58	27.06	111.1	1.184					
404.	9.27	34.68			26.84	129.7	700.	6.53	34.56	27.16	102.3	1.292					
507.	8.36	34.63			26.95	120.9	800.	5.86	34.55	27.24	94.9	1.392					
608.	7.30	34.58			27.07	110.3	1000.	4.91	34.56	27.36	83.9	1.573					
809.	5.81	34.55			27.24	94.4	1200.	4.16	34.58	27.46	74.9	1.733					
1012.	4.86	34.56			27.36	83.4	1500.	3.30	34.61	27.57	64.3	1.945					
1212.	4.12	34.58			27.46	74.4											
1516.	3.26	34.61			27.57	63.8											

CROMWELL 15, STATION		7A, 10- 1N LAT, 154- 6W LONG, APR. 15, 1965, 1600 G.C.T.		DRY BULB 25.5		WET BULB 22.4		WIND SPEED 11, DIR. 07		BAR. 10		WEATHER 02		VIS. 8		CLOUD TYPE 4, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	26.27	34.47	5.29		22.57	528.4	0.	26.27	34.47	22.57	528.4	0.000					
10.	26.30	34.47	5.89		22.56	529.7	10.	26.30	34.47	22.56	529.7	0.053					
30.Δ	26.27	34.47			22.57	529.6	20.	26.29	34.47	22.56	529.9	0.107					
50.	26.25	34.48	5.34		22.58	529.1	30.	26.27	34.47	22.57	529.6	0.160					
76.	17.57	34.61	4.88		25.10	289.9	50.	26.25	34.48	22.58	529.1	0.267					
100.	13.40	34.48	1.85		25.93	211.1	75.	17.95	34.61	25.00	299.0	0.371					
125.	12.07	34.63	0.29		26.35	171.1	100.	13.40	34.48	25.93	211.1	0.435					
151.	11.38	34.74	0.41		26.52	155.6	150.	11.40	34.74	26.52	155.9	0.528					
175.	11.08	34.74	0.35		26.58	150.9	200.	10.83	34.74	26.62	147.1	0.604					
201.	10.82	34.74	0.46		26.62	146.9	250.	10.39	34.72	26.69	142.1	0.677					
225.	10.64	34.73	0.49		26.65	145.1	300.	9.94	34.71	26.76	136.4	0.747					
250.	10.39	34.72	0.48		26.69	142.1	400.	9.12	34.67	26.86	128.0	0.880					
276.	10.14	34.72	0.49		26.73	138.5	500.	8.25	34.62	26.96	119.7	1.006					
300.	9.94	34.71	0.56		26.76	136.4	600.	7.35	34.57	27.05	111.4	1.122					
399.	9.13	34.67	0.29		26.86	123.1	700.	6.37	34.55	27.17	100.4	1.229					
501.	8.24	34.62	0.34		26.96	119.6	800.	5.49	34.55	27.28	90.0	1.326					
601.	7.34	34.57	0.67		27.05	111.5	1000.	4.58	34.56	27.40	79.6	1.497					
800.	5.49	34.55	0.67		27.28	90.0	1200.	3.87	34.58	27.49	71.2	1.650					
999.	4.58	34.56	1.31		27.40	79.6											
1198.	3.90	34.58	1.52		27.48	71.5											
1498.	3.08	34.61	1.95		27.59	61.5											

CROMWELL 15, STATION		8, 11-30N LAT, 154- 2W LONG, APR. 16, 1965, 0100 G.C.T.		DRY BULB 26.2		WET BULB 22.6		WIND SPEED 13, DIR. 08		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	26.55	34.56	4.73		22.55	530.3	0.	26.55	34.56	22.55	530.3	0.000					
11.	26.05	34.51	5.12		22.67	519.4	10.	26.07	34.51	22.66	519.9	0.053					
20.Δ	26.03	34.51			22.68	519.2	20.	26.03	34.51	22.68	519.2	0.105					
30.Δ	26.01	34.52			22.69	518.2	30.	26.01	34.52	22.69	518.2	0.157					
51.	26.00	34.52	4.76		22.69	518.8	50.	26.00	34.52	22.69	518.8	0.262					
77.	25.55	34.47	4.86		22.79	510.1	75.	25.69	34.47	22.75	514.4	0.392					
102.	19.78	34.81	4.71		24.69	329.4	100.	20.30	34.79	24.54	344.0	0.500					
126.	16.29	34.57	3.82		25.37	265.4	150.	12.63	34.32	25.96	209.1	0.640					
152.	12.37	34.31	2.76		26.00	205.2	200.	10.47	34.50	26.50	158.3	0.732					
177.	11.00	34.43	1.57		26.35	172.3	250.	10.05	34.64	26.68	142.2	0.808					
202.	10.45	34.51	1.08		26.51	157.5	300.	9.61	34.66	26.77	134.5	0.878					
227.	10.38	34.62	0.58		26.61	148.8	400.	8.69	34.62	26.89	124.7	1.008					
251.	10.03	34.64	0.45		26.69	142.0	500.	7.78	34.58	27.00	115.5	1.130					
277.	9.86	34.67	0.37		26.74	137.5	600.	6.82	34.57	27.13	103.9	1.240					
302.	9.59	34.66	0.36		26.78	134.3	700.	6.08	34.55	27.21	96.4	1.342					
402.	8.67	34.62	0.76		26.89	124.5	800.	5.51	34.54	27.27	90.9	1.436					
504.	7.74	34.58	0.69		27.00	115.1	1000.	4.62	34.56	27.39	80.3	1.609					
605.	6.77	34.57	0.70		27.13	103.3	1200.	3.90	34.58	27.48	71.6	1.763					
806.	5.48	34.54	1.12		27.28	97.6	1500.	3.14	34.61	27.58	62.2	1.967					
1006.	4.60	34.56	1.17		27.39	80.0											
1207.	3.88	34.58	1.31		27.49	71.3											
1508.	3.12	34.61	1.80		27.58	62.0											

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 15, STATION 9, 13- 14' LAT, 154- 0W LONG, APR. 16, 1965, 1000 G.C.T.															
DRY BULB	WET BULB	25.1	22.4	WIND SPEED	10, DIR.	07	BAR.	14	WEATHER	01	VIS.	8	CLOUD TYPE	8, COVER	2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.84	34.34	4.83		22.61	525.0	0.	25.84	34.34	22.61	525.0	0.000			
10.	25.72	34.32	4.94		22.63	523.2	10.	25.72	34.32	22.63	523.2	0.053			
30.	25.69	34.33			22.65	522.4	20.	25.69	34.32	22.64	522.6	0.105			
51.	25.66	34.34	4.76		22.66	521.7	30.	25.69	34.33	22.65	522.4	0.158			
77.	25.08	34.39	4.84		22.88	502.1	50.	25.67	34.34	22.66	521.8	0.263			
101.	19.99	34.74	4.70		24.59	339.7	75.	25.23	34.38	22.83	507.0	0.393			
127.	15.29	34.46	4.91		25.51	251.8	100.	20.24	34.73	24.51	346.8	0.500			
152.	12.78	34.31	3.20		25.92	213.0	150.	12.93	34.32	25.90	215.2	0.642			
176.	10.87	34.22	3.14		26.21	185.5	200.	10.62	34.41	26.41	167.5	0.738			
202.	10.62	34.43	1.55		26.42	166.3	250.	9.94	34.53	26.61	148.5	0.818			
226.	9.90	34.41	1.47		26.53	156.2	300.	9.32	34.55	26.73	138.0	0.890			
252.	9.95	34.54	0.64		26.62	148.0	400.	8.21	34.55	26.91	122.5	1.022			
276.	9.59	34.54	0.50		26.68	142.6	500.	7.25	34.52	27.03	112.2	1.140			
301.	9.31	34.55	0.41		26.74	137.8	600.	6.60	34.52	27.12	104.6	1.250			
401.	8.20	34.55	0.47		26.91	122.4	700.	5.94	34.52	27.21	96.6	1.351			
502.	7.23	34.52	0.54		27.03	112.0	800.	5.32	34.53	27.29	89.2	1.445			
602.	6.59	34.52	0.54		27.12	104.5	1000.	4.41	34.55	27.41	78.3	1.615			
803.	5.30	34.53	0.77		27.29	89.0	1200.	3.75	34.58	27.50	69.7	1.765			
1004.	4.40	34.55	0.92		27.41	78.2	1500.	2.96	34.61	27.60	60.0	1.962			
1204.	3.74	34.58	1.27		27.50	69.6									
1505.	2.95	34.61	1.79		27.60	59.9									

CROMWELL 15, STATION 10, 14-30N LAT, 153-59W LONG, APR. 16, 1965, 1900 G.C.T.															
DRY BULB	WET BULB	24.3	21.8	WIND SPEED	08, DIR.	12	BAR.	16	WEATHER	02	VIS.	9	CLOUD TYPE	8, COVER	3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.52	34.32	4.83		22.69	517.0	0.	25.52	34.32	22.69	517.0	0.000			
10.	25.32	34.32	5.01		22.75	511.5	10.	25.32	34.32	22.75	511.5	0.052			
30.	25.20	34.33			22.80	508.1	20.	25.23	34.32	22.78	509.0	0.103			
51.	25.15	34.34	4.80		22.82	506.7	30.	25.20	34.33	22.80	508.1	0.154			
76.	25.04	34.53	4.83		23.03	487.2	50.	25.15	34.34	22.82	506.9	0.257			
100.	21.88	34.95	5.08		24.23	373.4	75.	25.08	34.57	23.01	489.2	0.382			
125.	19.56	34.92	4.65		24.83	316.8	100.	21.88	34.95	24.23	373.4	0.491			
151.	17.66	34.79	4.35		25.21	281.3	150.	17.75	34.80	25.20	282.7	0.656			
175.	13.99	34.38	3.89		25.73	232.1	200.	11.95	34.30	26.07	199.6	0.778			
201.	11.90	34.30	2.17		26.08	198.5	250.	10.26	34.43	26.48	161.4	0.869			
224.	10.91	34.36	1.72		26.31	177.0	300.	10.11	34.60	26.64	147.3	0.946			
249.	10.26	34.42	1.44		26.47	162.0	400.	8.98	34.62	26.84	129.4	1.086			
274.	10.32	34.60	0.53		26.60	150.3	500.	7.97	34.56	26.95	120.0	1.212			
299.	10.12	34.60	0.41		26.64	147.4	600.	7.04	34.54	27.07	109.4	1.328			
398.	9.00	34.62	0.19		26.84	129.6	700.	6.19	34.53	27.18	99.5	1.433			
499.	7.98	34.56	0.37		26.95	120.1	800.	5.46	34.53	27.27	91.1	1.530			
598.	7.06	34.54	0.26		27.07	109.6	1000.	4.57	34.55	27.39	80.2	1.703			
797.	5.48	34.53	0.44		27.27	91.3	1200.	3.87	34.57	27.48	71.8	1.857			
997.	4.58	34.55	1.01		27.39	80.4									
1196.	3.92	34.57	1.21		27.47	72.5									
1497.	3.04	34.60	1.58		27.58	61.7									

CROMWELL 15, STATION 11, 16- 0N LAT, 154- 1W LONG, APR. 17, 1965, 0500 G.C.T.															
DRY BULB	WET BULB	25.0	21.9	WIND SPEED	03, DIR.	18	BAR.	11	WEATHER	02	VIS.	9	CLOUD TYPE	8, COVER	1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.90	34.29	4.91		22.86	501.1	0.	24.90	34.29	22.86	501.1	0.000			
10.	24.54	34.29	5.13		22.97	491.1	10.	24.54	34.29	22.97	491.1	0.050			
30.	24.39	34.30			23.02	486.9	20.	24.42	34.29	23.00	487.7	0.099			
50.	24.24	34.32	4.76		23.08	481.9	30.	24.39	34.30	23.02	486.9	0.148			
76.	24.13	34.35	4.33		23.13	477.7	50.	24.24	34.32	23.08	481.9	0.246			
100.	21.45	34.99	4.35		24.38	359.1	75.	24.16	34.34	23.12	479.0	0.367			
125.	19.53	35.01	4.32		24.91	309.5	100.	21.45	34.99	24.38	359.1	0.473			
150.	17.39	34.72	4.60		25.23	280.1	150.	17.39	34.72	25.23	280.1	0.634			
174.	15.06	34.46	4.23		25.56	248.3	200.	12.85	34.28	25.89	217.6	0.759			
199.	12.90	34.23	2.96		25.87	218.7	250.	10.65	34.41	26.39	169.7	0.857			
224.	11.87	34.37	1.68		26.14	193.4	300.	9.92	34.46	26.56	154.4	0.938			
249.	10.66	34.40	1.87		26.39	170.2	400.	9.47	34.62	26.76	137.4	1.086			
274.	10.54	34.51	1.14		26.50	160.7	500.	7.98	34.50	26.90	124.5	1.218			
299.	9.93	34.46	0.47		26.56	154.6	600.	7.22	34.52	27.03	113.4	1.338			
398.	9.50	34.62	0.14		26.76	137.7	700.	6.54	34.53	27.13	104.6	1.448			
498.	8.00	34.50	0.11		26.90	124.8	800.	5.94	34.53	27.21	97.5	1.550			
597.	7.24	34.52	0.11		27.03	113.6	1000.	4.95	34.53	27.33	86.5	1.736			
795.	5.97	34.53	0.12		27.21	97.8	1200.	4.11	34.55	27.44	76.2	1.901			
993.	4.98	34.53	0.69		27.33	86.9									
1193.	4.10	34.56	1.19		27.45	75.4									
1491.	3.35	34.59	1.54		27.55	66.2									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 15, STATION 12, 17-32N LAT, 153-58W LONG, APR. 17, 1965, 1200 G.C.T.												
DRY BULB 23.5	WET BULB 21.5	WIND SPEED 06,	DIR. 14	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 1					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.38	34.46	4.93		23.14	473.9	0.	24.38	34.46	23.14	473.9	0.000
10.	23.96	34.56	5.12		23.34	455.2	10.	23.96	34.56	23.34	455.2	0.047
30. Δ	23.74	34.71			23.52	439.0	20.	23.80	34.63	23.44	445.8	0.092
50.	23.55	34.98	5.08		23.78	414.9	30.	23.74	34.71	23.52	439.0	0.137
76.	22.83	35.13	5.02		24.10	385.2	50.	23.55	34.98	23.78	414.9	0.223
100.	21.78	35.19	4.89		24.44	353.4	75.	22.87	35.13	24.09	386.4	0.324
124.	20.47	35.11	4.57		24.74	325.9	100.	21.78	35.19	24.44	353.4	0.417
150.	19.16	35.02	4.43		25.01	300.5	150.	19.16	35.02	25.01	300.5	0.582
175.	17.73	34.81	4.28		25.21	282.3	200.	15.48	34.53	25.52	253.0	0.721
199.	15.57	34.54			25.51	251.1	250.	11.80	34.16	26.00	207.9	0.837
224.	13.52	34.31	4.43		25.77	229.2	300.	9.47	34.11	26.37	172.7	0.933
248.	11.90	34.17	4.48		25.98	209.2	400.	7.44	34.18	26.74	138.1	1.090
273.	10.72	34.11	5.12		26.15	193.1	500.	6.70	34.34	26.96	117.6	1.219
297.	9.57	34.11	0.44		26.35	174.4	600.	6.02	34.40	27.10	105.4	1.332
397.	7.47	34.18	0.12		26.73	138.9	700.	5.43	34.45	27.21	95.5	1.433
497.	6.72	34.34	1.16		26.96	118.0	800.	4.93	34.48	27.29	87.8	1.526
596.	6.05	34.40	0.65		27.09	105.9	1000.	4.21	34.52	27.41	77.8	1.694
795.	4.95	34.48	0.77		27.29	88.1	1200.	3.56	34.56	27.50	68.9	1.842
994.	4.23	34.52	1.00		27.40	78.2						
1193.	3.54	34.56	1.24		27.50	68.5						
1494.	2.88	34.60	1.68		27.60	59.7						

CROMWELL 15, STATION 13, 19-24N LAT, 154-09W LONG, APR. 17, 1965, 2200 G.C.T.												
DRY BULB 24.5	WET BULB 22.1	WIND SPEED 14,	DIR. 20	BAR. 13	WEATHER 03	VIS. 8	CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.29	34.22	5.17		22.99	488.7	0.	24.29	34.22	22.99	488.7	0.000
11.	24.16	34.22	5.22		23.03	485.4	10.	24.17	34.22	23.02	485.9	0.049
30. Δ	23.82	34.31			23.19	470.0	20.	24.01	34.25	23.09	479.3	0.098
50.	23.43	34.49	5.23		23.44	446.9	30.	23.82	34.31	23.19	470.0	0.146
74.	23.34	34.52	5.22		23.49	443.2	50.	23.43	34.49	23.44	446.9	0.238
98.	23.59	34.92	5.27		23.72	422.2	75.	23.36	34.54	23.50	442.5	0.350
123.	22.98	35.09	5.12		24.03	394.0	100.	23.57	34.94	23.74	420.3	0.459
148.	21.48	35.04	4.95		24.41	358.1	150.	21.42	35.05	24.44	355.5	0.654
171.	20.69	35.17	4.59		24.73	328.9	200.	18.56	34.93	25.10	293.9	0.818
196.	18.89	34.98	4.38		25.05	298.4	250.	13.66	34.33	25.76	231.3	0.950
221.	16.65	34.67	4.60		25.36	269.1	300.	10.57	34.14	26.21	188.6	1.056
245.	14.04	34.47	4.75		25.71	235.8	400.	8.41	34.15	26.57	155.0	1.229
270.	12.35	34.21	4.95		25.93	215.1	500.	6.46	34.20	26.89	124.7	1.371
294.	10.80	34.15	5.19		26.17	192.0	600.	5.88	34.34	27.07	107.9	1.488
391.	8.63	34.15	3.06		26.53	158.3	700.	5.41	34.43	27.20	96.7	1.591
490.	6.56	34.19	2.27		26.86	126.8	800.	5.01	34.48	27.28	89.2	1.685
587.	5.95	34.33	0.89		27.05	109.6	1000.	4.30	34.52	27.40	78.8	1.855
783.	5.08	34.47	0.72		27.27	90.3	1200.	3.67	34.56	27.49	70.3	2.006
978.	4.38	34.52	0.87		27.39	79.9						
1174.	3.73	34.55	1.11		27.48	71.4						
1469.	2.98	34.59	1.52		27.58	61.5						

CROMWELL 15, STATION 14, 20-31N LAT, 153-54W LONG, APR. 18, 1965, 0600 G.C.T.												
DRY BULB 24.1	WET BULB 21.5	WIND SPEED 10,	DIR. 20	BAR. 14	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.27	34.20	4.95		22.98	489.5	0.	24.27	34.20	22.98	489.5	0.000
10.	24.03	34.24	5.25		23.08	480.2	10.	24.03	34.24	23.08	480.2	0.049
50.	23.51	34.76	5.04		23.62	429.7	20.	23.89	34.35	23.20	468.7	0.097
75.	22.97	35.02	5.07		23.98	396.9	30.	23.75	34.47	23.34	456.5	0.143
98.	22.13	35.15	4.95		24.32	365.6	50.	23.51	34.76	23.62	429.7	0.233
123.	21.50	35.20	4.82		24.53	346.2	75.	22.97	35.02	23.98	396.9	0.337
148.	20.30	35.16	4.65		24.82	318.8	100.	22.08	35.16	24.33	363.9	0.432
172.	18.76	34.99	4.48		25.09	293.7	150.	20.18	35.15	24.85	316.6	0.604
197.	17.15	34.75	4.43		25.31	273.9	200.	16.92	34.72	25.34	271.0	0.752
221.	15.28	34.52	4.43		25.56	250.0	250.	13.10	34.28	25.83	224.0	0.877
245.	13.43	34.31	4.56		25.79	228.0	300.	11.03	34.24	26.20	189.5	0.981
270.	12.00	34.20	4.40		25.99	209.3	400.	8.67	34.36	26.69	143.9	1.149
294.	11.20	34.23	3.32		26.16	193.2	500.	6.90	34.31	26.91	123.2	1.284
392.	8.85	34.36	1.25		26.66	146.3	600.	6.10	34.39	27.08	107.6	1.401
491.	7.05	34.30	1.05		26.89	124.8	700.	5.47	34.43	27.19	97.0	1.504
589.	6.15	34.38	0.75		27.06	109.0	800.	4.96	34.46	27.28	89.4	1.598
785.	5.03	34.46	1.09		27.27	90.5	1000.	4.18	34.51	27.40	78.2	1.768
982.	4.25	34.51	1.09		27.39	79.0	1200.	3.53	34.54	27.49	69.7	1.918
1178.	3.56	34.53	1.35		27.48	71.8						
1475.	2.95	34.59	1.62		27.58	61.2						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 15, STATION 15, 21-59N LAT, 154- 0W LONG, APR. 18, 1965, 1500 G.C.T.													
DRY BULB	22.4	WET BULB	19.5	WIND SPEED	12, DIR. 29	BAR.	11	WEATHER	20	VIS.	7	CLOUD TYPE	8, COVER 3
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.09	34.97	5.45		23.91	401.0	0.	23.09	34.97	23.91	401.0	0.000	
10.	23.19	34.97	5.68		23.88	404.1	10.	23.19	34.97	23.88	404.1	0.041	
30.	23.04	35.09			23.94	398.6	20.	23.15	34.98	23.90	402.6	0.081	
48.	22.90	35.04	5.47		24.03	390.5	30.	23.04	35.00	23.94	398.6	0.122	
73.	21.97	35.02	5.48		24.26	369.8	50.	22.75	35.03	24.05	389.5	0.201	
95.	20.79	35.13	5.36		24.67	331.6	75.	21.86	35.03	24.30	366.2	0.296	
120.	20.12	35.12	5.09		24.84	316.2	100.	20.62	35.13	24.72	327.4	0.383	
144.	19.54	35.14	5.06		25.01	301.0	150.	19.18	35.08	25.06	298.2	0.541	
167.	17.99	34.88	4.95		25.20	287.8	200.	16.07	34.61	25.45	259.8	0.681	
191.	16.72	34.70	4.34		25.37	267.6	250.	12.84	34.26	25.87	220.0	0.802	
215.	14.94	34.47	4.82		25.60	246.3	300.	10.64	34.11	26.16	192.5	0.906	
239.	13.36	34.31	4.77		25.81	226.4	400.	8.01	34.08	26.57	154.5	1.081	
262.	12.32	34.22	4.75		25.94	213.6	500.	6.23	34.11	26.84	128.4	1.224	
287.	11.12	34.13	4.75		26.10	199.0	600.	5.31	34.23	27.05	108.7	1.343	
382.	8.43	34.08	3.46		26.51	160.2	700.	4.80	34.35	27.20	95.1	1.446	
478.	6.53	34.09	2.10		26.79	133.7	800.	4.47	34.43	27.31	85.7	1.538	
574.	5.48	34.21	1.07		27.01	113.0	1000.	3.88	34.51	27.43	74.5	1.700	
765.	4.61	34.41	0.81		27.27	89.7	1200.	3.42	34.56	27.51	67.3	1.844	
957.	3.96	34.50	1.19		27.41	76.0							
1150.	3.62	34.54	1.22		27.48	70.6							
1441.	2.91	34.58	1.72		27.58	61.2							

CROMWELL 15, STATION 16, 23-30N LAT, 153-58W LONG, APR. 18, 1965, 2300 G.C.T.													
DRY BULB	21.9	WET BULB	17.6	WIND SPEED	12, DIR. 34	BAR.	14	WEATHER	01	VIS.	8	CLOUD TYPE	9, COVER 5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.72	34.68	4.95		23.79	411.8	0.	22.72	34.68	23.79	411.8	0.000	
10.	22.31	34.69	5.17		23.77	413.9	10.	22.81	34.69	23.77	413.9	0.042	
30.	22.60	34.69			23.83	408.9	20.	22.80	34.67	23.76	415.1	0.083	
50.	21.43	34.98	5.03		24.38	357.5	30.	22.60	34.69	23.83	408.9	0.125	
75.	21.08	35.18	5.10		24.63	334.8	50.	21.43	34.98	24.38	357.5	0.202	
98.	19.77	35.06	4.59		24.89	310.9	75.	21.08	35.18	24.63	334.8	0.289	
122.	18.62	34.99	4.66		25.13	288.6	100.	19.69	35.06	24.91	309.1	0.370	
147.	16.36	34.67	4.62		25.43	260.4	150.	16.10	34.64	25.46	257.2	0.513	
171.	14.51	34.45	4.70		25.67	237.5	200.	12.99	34.30	25.87	218.9	0.633	
196.	13.19	34.32	4.77		25.85	221.3	250.	11.12	34.19	26.14	194.0	0.737	
221.	12.04	34.22	4.81		26.00	207.4	300.	9.88	34.12	26.31	178.7	0.831	
243.	11.36	34.20	4.91		26.11	197.1	400.	7.17	34.03	26.65	145.9	0.995	
269.	10.53	34.15	4.81		26.22	186.8	500.	5.90	34.07	26.85	127.2	1.133	
293.	10.08	34.13	4.76		26.28	181.2	600.	5.10	34.17	27.03	110.7	1.253	
390.	7.35	34.03	4.73		26.63	148.7	700.	4.65	34.30	27.18	96.7	1.358	
488.	6.03	34.06	1.88		26.83	129.4	800.	4.39	34.42	27.30	85.8	1.450	
585.	5.18	34.15	1.16		27.00	113.1	1000.	3.92	34.53	27.44	74.0	1.612	
780.	4.44	34.40	0.85		27.28	87.5	1200.	3.45	34.57	27.52	66.6	1.754	
976.	3.98	34.52	1.11		27.43	75.0							
1172.	3.49	34.55	1.19		27.50	68.5							
1472.	2.91	34.58	1.59		27.58	61.4							

CROMWELL 15, STATION 17, 23-27N LAT, 151- 2W LONG, APR. 19, 1965, 1500 G.C.T.													
DRY BULB	20.5	WET BULB	15.7	WIND SPEED	10, DIR. 32	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	8, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.25	34.82			24.03	389.0	0.	22.25	34.82	24.03	389.0	0.000	
10.	22.25	34.82			24.02	390.2	10.	22.28	34.82	24.02	390.2	0.039	
50.	21.87	34.86			24.18	376.5	20.	22.19	34.82	24.05	387.8	0.078	
75.	21.77	34.93			24.25	371.0	30.	22.08	34.83	24.09	384.8	0.117	
98.	21.68	35.10			24.40	357.2	50.	21.82	34.86	24.18	376.5	0.194	
122.	21.54	35.22			24.53	345.7	75.	21.77	34.93	24.25	371.0	0.288	
147.	21.02	35.23			24.68	332.3	100.	21.68	35.11	24.41	356.2	0.380	
171.	20.08	35.19			24.90	311.9	150.	20.92	35.23	24.71	330.0	0.553	
196.	18.76	35.05			25.14	290.2	200.	18.63	35.03	25.16	288.6	0.709	
220.	17.87	34.90			25.25	280.5	250.	15.64	34.57	25.51	255.2	0.846	
245.	16.05	34.67			25.46	260.1	300.	12.84	34.27	25.88	220.8	0.966	
270.	14.15	34.39			25.70	237.3	400.	9.42	34.10	26.37	174.3	1.165	
294.	13.09	34.29			25.84	224.0	500.	7.02	34.08	26.71	141.4	1.324	
393.	9.62	34.11			26.34	177.1	600.	5.48	34.13	26.95	118.6	1.456	
492.	7.18	34.08			26.69	143.6	700.	4.72	34.24	27.13	102.0	1.567	
592.	5.56	34.12			26.93	120.1	800.	4.38	34.36	27.26	89.9	1.664	
789.	4.41	34.35			27.25	91.0	1000.	3.92	34.49	27.41	76.4	1.832	
989.	3.95	34.49			27.41	76.9	1200.	3.45	34.56	27.51	67.5	1.978	
1188.	3.46	34.54			27.50	69.0							
1489.	2.31	34.59			27.60	59.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 15, STATION 18, 22-0N LAT, 151-0W LONG, APR. 19, 1965, 2300 G.C.T.													
DRY BULB	22.5	WET BULB	18.5	WIND SPEED	08, DIR. 21	BAR.	17	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.51	34.67			23.56	434.3	0.	23.51	34.67	23.56	434.3	0.000	
9.	23.12	34.66			23.66	424.5	10.	23.10	34.66	23.67	423.6	0.043	
30.	22.86	34.78			23.83	409.5	20.	22.92	34.71	23.76	415.4	0.085	
49.	22.77	34.83			23.89	404.2	30.	22.86	34.78	23.83	409.5	0.127	
73.	21.70	34.99			24.24	372.0	50.	22.73	34.83	23.90	403.0	0.209	
97.	21.60	35.19			24.49	348.6	75.	21.69	34.92	24.26	369.8	0.306	
120.	20.79	35.19			24.71	328.2	100.	21.52	35.20	24.52	345.8	0.396	
146.	19.54	35.06			24.95	306.9	150.	19.33	35.03	24.98	303.6	0.560	
169.	18.26	34.90			25.15	288.1	200.	16.43	34.65	25.40	264.8	0.703	
194.	16.78	34.70			25.35	269.0	250.	12.58	34.23	25.90	217.4	0.825	
218.	15.23	34.50			25.55	250.3	300.	10.37	34.13	26.23	186.5	0.927	
242.	13.07	34.28			25.84	223.0	400.	7.70	34.07	26.61	150.0	1.096	
265.	11.83	34.17			26.00	208.3	500.	6.03	34.14	26.89	123.5	1.234	
289.	10.77	34.14			26.17	192.1	600.	5.20	34.23	27.06	107.9	1.351	
386.	8.01	34.07			26.56	154.7	700.	4.86	34.35	27.20	95.5	1.454	
483.	6.24	34.13			26.86	126.9	800.	4.68	34.46	27.30	86.5	1.546	
580.	5.30	34.20			27.03	110.8	1000.	4.07	34.52	27.42	76.5	1.711	
773.	4.76	34.44			27.28	88.4	1200.	3.54	34.55	27.50	69.0	1.858	
968.	4.16	34.51			27.40	77.8							
1161.	3.64	34.54			27.48	70.9							
1457.	2.97	34.58			27.57	62.1							

CROMWELL 15, STATION 19, 20-29N LAT, 150-50W LONG, APR. 19, 1965, 2200 G.C.T.													
DRY BULB	23.2	WET BULB	20.1	WIND SPEED	10, DIR. 00	BAR.	14	WEATHER	02	VIS.	8	CLOUD TYPE	8, COVER 1

OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

CROMWELL 15, STATION 20, 19- ON LAT, 150-59W LONG, APR. 20, 1965, 1700 G.C.T.													
DRY BULB	22.5	WET BULB	20.4	WIND SPEED	18, DIR. 06	BAR.	18	WEATHER	03	VIS.	6	CLOUD TYPE	8, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.05	34.36			23.16	471.8	0.	24.05	34.36	23.16	471.8	0.000	
9.	24.05	34.36			23.16	472.1	10.	24.05	34.36	23.16	472.3	0.048	
46.	23.82	34.34			23.22	468.5	20.	24.04	34.34	23.15	473.5	0.095	
69.	23.30	34.46			23.46	446.2	30.	23.99	34.33	23.16	473.0	0.143	
92.	22.90	34.64			23.71	423.1	50.	23.74	34.36	23.25	465.2	0.237	
114.	22.28	34.93			24.11	386.1	75.	23.20	34.50	23.52	441.0	0.351	
138.	21.60	35.11			24.43	355.8	100.	22.69	34.75	23.85	410.0	0.459	
161.	20.01	35.01			24.79	322.8	150.	20.84	35.08	24.62	338.8	0.647	
194.	18.17	34.85			25.13	290.1	200.	16.60	34.65	25.36	268.9	0.800	
206.	16.01	34.57			25.43	261.7	250.	12.57	34.25	25.92	215.6	0.923	
229.	14.23	34.39			25.69	237.8	300.	10.43	34.20	26.27	182.3	1.023	
253.	12.36	34.24			25.95	212.7	400.	8.23	34.29	26.70	142.2	1.187	
275.	11.37	34.21			26.11	197.3	500.	7.28	34.40	26.93	121.7	1.320	
367.	8.65	34.23			26.59	152.3	600.	6.28	34.40	27.06	109.1	1.436	
460.	7.74	34.39			26.85	128.3	700.	5.55	34.43	27.18	98.7	1.541	
552.	6.70	34.39			27.00	114.9	800.	5.00	34.46	27.27	89.9	1.637	
738.	5.33	34.44			27.21	95.2	1000.	4.16	34.53	27.42	76.7	1.805	
923.	4.46	34.51			27.37	81.1	1200.	3.52	34.57	27.51	67.6	1.951	
1111.	3.78	34.55			27.47	71.5							
1400.	3.11	34.59			27.57	62.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA								
CROMWELL 15, STATION 21, 17-31N LAT, 151- 0W LONG, APR. 21, 1965, 0200 G.C.T.																
DRY BULB	25.0	WET BULB	22.1	WIND SPEED	22, DIR.	06	BAR.	14	WEATHER	02	VIS.	8	CLOUD TYPE	8,	COVER	6
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	25.01	34.42			22.92	494.9	0.	25.01	34.42	22.92	494.9	0.000				
9.	25.01	34.41			22.91	496.0	10.	25.01	34.41	22.91	496.1	0.050				
30 ^Δ	24.96	34.41			22.93	495.3	20.	25.02	34.41	22.91	496.7	0.100				
50.	24.43	34.39			23.07	482.3	30.	24.96	34.41	22.93	495.3	0.150				
75.	23.67	34.48			23.38	453.9	50.	24.43	34.39	23.07	482.3	0.248				
99.	22.68	34.92			23.99	397.1	75.	23.62	34.48	23.38	453.9	0.366				
124.	21.18	35.07			24.52	347.2	100.	22.62	34.93	24.01	394.8	0.473				
149.	20.20	35.10			24.80	320.7	150.	20.18	35.10	24.81	320.2	0.653				
174.	19.50	35.02			24.93	309.7	200.	17.69	34.79	25.20	283.7	0.806				
199.	17.79	34.80			25.12	285.2	250.	13.14	34.31	25.85	222.2	0.933				
223.	15.27	34.50			25.56	250.2	300.	10.44	34.24	26.31	179.1	1.034				
249.	13.22	34.32			25.84	223.2	400.	8.42	34.34	26.72	141.0	1.196				
273.	11.44	34.19			26.08	199.9	500.	7.39	34.42	26.93	121.6	1.328				
298.	10.50	34.24			26.29	180.3	600.	6.53	34.45	27.07	108.6	1.445				
397.	8.46	34.34			26.71	141.8	700.	5.79	34.48	27.19	97.9	1.549				
497.	7.42	34.42			26.92	122.0	800.	5.17	34.50	27.28	89.5	1.644				
596.	6.56	34.45			27.07	109.1	1000.	4.30	34.51	27.39	79.8	1.815				
795.	5.20	34.50			27.28	89.8	1200.	3.62	34.55	27.49	70.2	1.967				
995.	4.32	34.51			27.38	80.0	1500.	2.89	34.59	27.59	60.6	2.166				
1193.	3.64	34.55			27.49	70.5	2000.	2.13	34.64	27.70	50.1	2.447				
1494.	2.90	34.59			27.59	60.7	2500.	1.81	34.68	27.75	45.7	2.691				
2075.	2.06	34.65			27.71	49.1	3000.	1.67	34.69	27.77	44.5	2.921				
2576.	1.79	34.68			27.75	45.4	4000.	1.45	34.70	27.80	43.3	3.371				
3079.	1.65	34.69			27.77	44.5										
4082.	1.44	34.70			27.80	43.4										

CROMWELL 15, STATION 22, 16- 1N LAT, 151- 2W LONG, APR. 21, 1965, 1300 G.C.T.																
DRY BULB	23.9	WET BULB	21.5	WIND SPEED	18, DIR.	08	BAR.	17	WEATHER	02	VIS.	6	CLOUD TYPE	8,	COVER	2
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	25.00	34.45			22.95	492.4	0.	25.00	34.45	22.95	492.4	0.000				
10.	25.04	34.46			22.94	493.3	10.	25.04	34.46	22.94	493.3	0.050				
50.	24.44	34.39			23.07	482.6	20.	24.92	34.45	22.97	490.9	0.099				
75.	24.41	34.38			23.07	483.4	30.	24.77	34.43	23.00	488.4	0.149				
100.	23.32	34.66			23.60	433.5	50.	24.44	34.39	23.07	482.6	0.246				
124.	21.43	34.96			24.37	361.7	75.	24.41	34.38	23.07	483.4	0.368				
150.	19.64	34.99			24.87	314.6	100.	23.32	34.66	23.60	433.5	0.484				
174.	16.77	34.59			25.27	276.2	150.	19.64	34.99	24.87	314.6	0.672				
216.	10.51	34.18			26.24	183.1	200.	12.77	34.30	25.91	215.1	0.805				
308.	9.42	34.37			26.58	153.0	250.	9.10	34.17	26.47	161.5	0.900				
499.	7.29	34.43			26.95	119.5	300.	9.17	34.33	26.58	152.1	0.980				
636.	6.12	34.44			27.12	104.4	400.	8.35	34.43	26.79	133.4	1.124				
765.	5.26	34.44			27.22	94.7	500.	7.28	34.43	26.95	119.3	1.251				
989.	4.45	34.51			27.37	81.6	600.	6.40	34.44	27.08	107.8	1.366				
							700.	5.66	34.44	27.17	99.2	1.470				
							800.	5.09	34.45	27.25	91.8	1.567				

TEMPERATURE ERROR TERM AT 200. METERS IS 0.20
TEMPERATURE ERROR TERM AT 250. METERS IS 0.67
SALINITY ERROR TERM AT 250. METERS IS 0.06
TEMPERATURE ERROR TERM AT 300. METERS IS 0.23

CROMWELL 15, STATION 23, 14-32N LAT, 151- 5W LONG, APR. 21, 1965, 2100 G.C.T.																
DRY BULB	25.9	WET BULB	22.1	WIND SPEED	15, DIR.	12	BAR.	16	WEATHER	02	VIS.	7	CLOUD TYPE	8,	COVER	4
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	25.54	34.30			22.67	519.0	0.	25.54	34.30	22.67	519.0	0.000				
11.	25.55	34.31			22.67	519.0	10.	25.55	34.31	22.67	519.1	0.052				
30 ^Δ	25.46	34.33			22.72	515.7	20.	25.53	34.32	22.68	518.3	0.105				
52.	25.06	34.41			22.90	499.1	30.	25.46	34.33	22.72	515.7	0.157				
78.	25.01	34.42			22.92	497.9	50.	25.10	34.40	22.88	500.6	0.259				
103.	20.25	34.64			24.44	353.6	75.	25.13	34.42	22.88	501.7	0.385				
128.	17.86	34.76			25.14	287.4	100.	20.88	34.61	24.25	371.7	0.495				
155.	15.06	34.45			25.55	248.5	150.	15.58	34.52	25.49	254.3	0.653				
180.	12.57	34.24			25.91	214.8	200.	11.57	34.34	26.18	189.7	0.765				
206.	11.40	34.39			26.25	183.0	250.	10.34	34.51	26.53	156.9	0.852				
231.	10.99	34.53			26.43	166.0	300.	10.26	34.67	26.67	144.8	0.928				
257.	10.15	34.50			26.56	154.4	400.	9.00	34.62	26.84	129.9	1.067				
283.	10.40	34.66			26.64	147.4	500.	7.91	34.56	26.97	118.7	1.192				
308.	10.15	34.66			26.68	143.7	600.	7.02	34.55	27.08	108.2	1.307				
409.	8.88	34.61			26.85	128.7	700.	6.20	34.54	27.18	99.1	1.412				
511.	7.80	34.56			26.98	117.6	800.	5.50	34.53	27.27	91.5	1.508				
613.	6.91	34.55			27.10	106.9	1000.	4.60	34.55	27.38	80.9	1.682				
816.	5.40	34.53			27.28	90.4	1200.	3.91	34.57	27.47	72.5	1.838				
1016.	4.55	34.55			27.39	80.2	1500.	3.08	34.60	27.58	62.4	2.043				
1220.	3.85	34.57			27.48	71.8										
1523.	3.03	34.60			27.59	61.7										

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 15, STATION 24, 12-59N LAT, 151-0W LONG, APR. 22, 1965, 0700 G.C.T.		DRY BULB 25.3		WET BULB 22.0		WIND SPEED 10, DIR. 07		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 3, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.47	34.30			22.69	516.9	0.	25.47	34.30	22.69	516.9	0.000			
10.	25.49	34.30			22.68	517.9	10.	25.49	34.30	22.68	517.9	0.052			
50.	25.39	34.29			22.71	517.3	20.	25.48	34.30	22.68	518.3	0.104			
75.	25.26	34.29			22.75	514.5	30.	25.47	34.30	22.69	518.4	0.157			
99.	22.52	34.45			23.67	426.7	50.	25.39	34.29	22.71	517.3	0.261			
123.	16.24	34.51			25.33	268.6	75.	25.26	34.29	22.75	514.5	0.391			
149.	13.13	34.25			25.81	224.0	100.	22.26	34.46	23.75	419.3	0.508			
173.	11.84	34.30			26.10	196.7	150.	13.06	34.25	25.82	222.7	0.670			
198.	10.53	34.34			26.37	171.3	200.	10.51	34.36	26.38	169.8	0.769			
222.	10.57	34.55			26.52	157.1	250.	10.64	34.65	26.59	151.2	0.850			
247.	10.67	34.65			26.58	152.0	300.	10.03	34.66	26.70	141.5	0.924			
271.	10.33	34.66			26.65	146.0	400.	8.94	34.63	26.86	127.7	1.060			
295.	10.08	34.66			26.69	142.3	500.	7.74	34.56	26.99	116.7	1.183			
393.	9.03	34.64			26.85	128.5	600.	6.74	34.54	27.11	105.2	1.295			
493.	7.82	34.56			26.98	117.6	700.	5.98	34.52	27.20	97.1	1.397			
591.	6.82	34.54			27.10	106.0	800.	5.39	34.52	27.27	90.7	1.492			
788.	5.45	34.52			27.26	91.5	1000.	4.53	34.56	27.40	78.9	1.664			
985.	4.59	34.56			27.39	79.6	1200.	3.80	34.59	27.50	69.8	1.814			
1183.	3.84	34.58			27.49	70.6									
1480.	3.07	34.61			27.59	61.2									

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 15, STATION 25, 11-28N LAT, 150-59W LONG, APR. 22, 1965, 1700 G.C.T.		DRY BULB 25.4		WET BULB 22.5		WIND SPEED 23, DIR. 07		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.75	34.46			22.73	513.7	0.	25.75	34.46	22.73	513.7	0.000			
11.	25.78	34.46			22.72	515.0	10.	25.78	34.46	22.72	514.9	0.052			
30.Δ	25.77	34.46			22.72	515.4	20.	25.78	34.46	22.72	515.4	0.104			
51.	25.75	34.46			22.73	517.7	30.	25.77	34.46	22.72	515.4	0.156			
75.	24.83	34.50			23.04	486.8	50.	25.76	34.46	22.72	515.9	0.260			
100.	18.37	34.67			24.91	308.7	75.	24.83	34.50	23.04	486.8	0.386			
124.	13.84	34.36			25.75	229.2	100.	18.37	34.62	24.91	308.7	0.486			
150.	11.94	34.53			26.25	181.1	150.	11.94	34.53	26.25	181.1	0.609			
173.	11.16	34.61			26.46	161.8	200.	10.78	34.65	26.56	152.7	0.694			
199.	10.79	34.65			26.56	153.0	250.	10.32	34.67	26.66	144.4	0.768			
223.	10.52	34.66			26.62	148.1	300.	9.87	34.68	26.74	137.5	0.840			
247.	10.34	34.67			26.66	144.9	400.	8.87	34.63	26.87	127.1	0.973			
272.	10.17	34.69			26.70	141.1	500.	7.95	34.59	26.98	117.6	1.097			
296.	9.91	34.68			26.74	138.0	600.	7.09	34.56	27.08	108.7	1.211			
395.	8.92	34.63			26.86	127.6	700.	6.34	34.54	27.17	100.6	1.317			
495.	8.00	34.59			26.97	118.1	800.	5.70	34.54	27.25	93.4	1.415			
594.	7.14	34.56			27.07	109.2	1000.	4.73	34.57	27.39	80.8	1.591			
792.	5.74	34.54			27.24	93.9	1200.	3.94	34.58	27.48	71.9	1.746			
989.	4.78	34.57			27.38	81.4	1500.	3.14	34.61	27.58	62.1	1.949			
1188.	3.98	34.58			27.48	72.4	2000.	2.26	34.64	27.69	51.6	2.238			
1486.	3.17	34.61			27.58	62.5	2500.	1.88	34.68	27.74	46.7	2.489			
2093.	2.15	34.65			27.70	50.3	3000.	1.70	34.69	27.77	45.0	2.723			
2597.	1.85	34.68			27.75	46.3	4000.	1.43	34.70	27.80	42.9	3.173			
3101.	1.67	34.69			27.77	44.8									
4109.	1.41	34.70			27.80	43.0									

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL 15, STATION 26, 10-2N LAT, 148-5W LONG, APR. 23, 1965, 1600 G.C.T.		DRY BULB 24.0		WET BULB 22.0		WIND SPEED 18, DIR. 05		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.92	34.38	4.83		22.61	524.5	0.	25.92	34.38	22.61	524.5	0.000			
10.	25.92	34.38	5.07		22.61	524.8	10.	25.92	34.38	22.61	524.8	0.053			
30.Δ	25.90	34.38			22.62	525.0	20.	25.91	34.38	22.61	525.0	0.106			
52.	25.87	34.38	4.91		22.63	525.0	30.	25.90	34.38	22.62	525.0	0.159			
77.	15.13	34.40	2.78		25.50	251.4	50.	26.06	34.38	22.57	530.5	0.265			
102.	11.91	34.48	1.98		26.22	183.0	75.	16.06	34.40	25.29	271.4	0.368			
126.	11.88	34.72	0.19		26.41	165.5	100.	11.97	34.47	26.20	184.9	0.423			
154.	11.32	34.76	0.27		26.55	153.1	150.	11.41	34.76	26.54	154.4	0.509			
177.	10.95	34.74	0.38		26.60	148.6	200.	10.62	34.74	26.66	143.5	0.584			
203.	10.58	34.74	0.88		26.67	142.8	250.	10.11	34.72	26.74	137.2	0.655			
228.	10.32	34.73	0.59		26.71	139.7	300.	9.73	34.70	26.78	133.5	0.723			
254.	10.07	34.72	1.18		26.74	136.8	400.	8.96	34.66	26.88	126.0	0.854			
280.	9.85	34.71	0.59		26.77	134.4	500.	8.11	34.62	26.98	117.5	0.977			
304.	9.71	34.70	0.55		26.79	133.4	600.	7.20	34.58	27.08	108.9	1.091			
405.	8.92	34.66	0.21		26.88	125.6	700.	6.33	34.55	27.18	99.7	1.197			
506.	8.06	34.62	0.31		26.99	117.0	800.	5.58	34.55	27.27	91.2	1.293			
616.	7.05	34.57	0.47		27.09	107.5	1000.	4.65	34.56	27.39	80.6	1.467			
808.	5.53	34.55	0.69		27.28	90.6	1200.	3.89	34.58	27.48	71.5	1.621			
1011.	4.61	34.56	0.98		27.39	80.1	1500.	3.06	34.61	27.59	61.4	1.823			
1212.	3.85	34.58	1.30		27.49	71.0									
1515.	3.03	34.61	1.74		27.59	61.0									

TEMPERATURE ERROR TERM AT 50. METERS IS 0.12
TEMPERATURE ERROR TERM AT 75. METERS IS 0.23

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA							
CROMWELL DRY BULB	15, 24.5	STATION WET BULB	27, 21.4	11-31N LAT, WIND SPEED	148- 20,	7W LONG, DIR.	APR. 24, 1965, 05	0100 G.C.T. BAR. 11	WEATHER	02	VIS.	7	CLOUD TYPE	8,	COVER	2
DEPTH	TEMP.	SAL.	PKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	25.56	34.59	5.68		22.88	498.7	0.	25.56	34.59	22.88	498.7	0.000				
10.	25.66	34.59	5.60		22.85	502.0	10.	25.66	34.59	22.85	502.0	0.050				
52.	25.10*	34.55	5.51		22.99	490.2	20.	25.60	34.59	22.87	501.0	0.101				
78.	24.70	34.49	4.99		23.07	483.9	30.	25.50	34.58	22.89	498.8	0.151				
103.	19.60	34.63	4.75		24.60	338.0	50.	25.15	34.55	22.98	491.2	0.251				
148.	13.27	34.35	2.60		25.85	219.3	75.	24.87	34.49	23.02	488.7	0.374				
153.	11.06	34.45	1.35		26.21	185.6	100.	20.30	34.61	24.41	356.7	0.481				
178.	11.11	34.54	1.21		26.42	166.2	150.	12.69	34.39	26.00	205.3	0.623				
205.	10.72	34.63	0.46		26.56	153.4	200.	10.77	34.62	26.54	155.2	0.713				
230.	10.44	34.67	0.44		26.64	146.2	250.	10.22	34.66	26.67	143.3	0.789				
255.	10.16	34.66	0.33		26.68	142.7	300.	9.62	34.65	26.76	135.5	0.859				
280.	9.80	34.65	0.39		26.73	138.0	400.	8.85	34.63	26.87	126.4	0.991				
305.	9.58	34.65	0.27		26.77	134.9	500.	8.00	34.58	26.97	118.6	1.115				
407.	8.80	34.63	0.25		26.88	125.9	600.	7.06	34.55	27.08	108.7	1.230				
509.	7.92	34.58	0.65		26.98	117.9	700.	6.28	34.54	27.18	100.0	1.335				
611.	6.96	34.55	0.66		27.09	107.6	800.	5.63	34.54	27.26	92.7	1.432				
813.	5.56	34.54	0.87		27.27	91.8	1000.	4.63	34.55	27.38	81.1	1.608				
1016.	4.56	34.55	1.00		27.39	80.3	1200.	3.91	34.58	27.48	71.8	1.763				
1218.	3.85	34.54	1.46		27.49	71.0	1500.	3.06	34.61	27.59	61.4	1.966				
1522.	3.01	34.61	1.94		27.59	60.8										

TEMPERATURE ERROR TERM AT 100. METERS IS 0.10

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA							
CROMWELL DRY BULB	15, 23.9	STATION WET BULB	28, 21.1	13-0N LAT, WIND SPEED	148- 23,	1W LONG, DIR.	APR. 24, 1965, 09	1200 G.C.T. BAR. 15	WEATHER	02	VIS.	6	CLOUD TYPE	8,	COVER	1
DEPTH	TEMP.	SAL.	PKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	24.88	34.50	4.88		23.02	485.4	0.	24.88	34.50	23.02	485.4	0.000				
10.	24.90	34.49	5.11		23.01	487.1	10.	24.90	34.49	23.01	487.1	0.049				
49.	24.87	34.50	4.94		23.02	487.0	20.	24.88	34.48	23.01	487.6	0.098				
73.	25.07	34.60	4.85		23.04	486.5	30.	24.87	34.48	23.01	487.7	0.147				
97.	24.36	34.59	4.76		23.25	467.7	50.	24.89	34.50	23.02	487.2	0.245				
120.	19.85	34.96	4.98		24.79	320.9	75.	25.11	34.59	23.02	488.1	0.368				
146.	14.61	34.37	2.85		25.59	244.7	100.	23.88	34.65	23.43	449.8	0.486				
169.	11.93	34.44	1.29		26.19	188.0	150.	14.00	34.36	25.71	233.2	0.658				
194.	11.53	34.63	1.17		26.41	167.4	200.	11.47	34.65	26.44	164.7	0.759				
218.	11.31	34.70	0.21		26.50	158.9	250.	10.87	34.72	26.60	150.6	0.838				
243.	10.99	34.72	0.12		26.58	152.2	300.	10.25	34.69	26.68	143.4	0.912				
266.	10.64	34.71	0.16		26.63	147.5	400.	9.14	34.64	26.83	130.4	1.050				
290.	10.36	34.69	0.18		26.67	144.7	500.	7.90	34.57	26.97	118.2	1.176				
386.	9.31	34.65	0.15		26.81	132.2	600.	6.84	34.53	27.09	107.4	1.290				
483.	8.10	34.58	0.18		26.95	120.1	700.	6.05	34.53	27.19	97.9	1.394				
580.	7.02	34.53	0.42		27.07	109.5	800.	5.45	34.54	27.28	90.2	1.489				
774.	5.60	34.54	0.63		27.26	91.8	1000.	4.55	34.55	27.39	79.7	1.660				
968.	4.67	34.55	0.90		27.38	81.2	1200.	3.83	34.58	27.49	70.8	1.813				
1163.	4.00	34.58	1.09		27.47	72.4										
1457.	3.10	34.61	1.63		27.59	61.4										

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA							
CROMWELL DRY BULB	15, 25.4	STATION WET BULB	29, 20.3	14-29N LAT, WIND SPEED	147-58W 17,	LONG, DIR.	APR. 24, 1965, 10	2100 G.C.T. BAR. 17	WEATHER	02	VIS.	8	CLOUD TYPE	4,	COVER	5
DEPTH	TEMP.	SAL.	PKY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	25.47	34.51	5.21		22.85	501.8	0.	25.47	34.51	22.85	501.8	0.000				
10.	25.46	34.52	5.39		22.86	501.2	10.	25.46	34.52	22.86	501.2	0.051				
30.	25.45	34.52			22.86	501.7	20.	25.45	34.52	22.86	501.3	0.101				
52.	25.44	34.53	5.21		22.87	501.5	30.	25.45	34.52	22.86	501.7	0.152				
78.	25.03	34.67	5.16		23.10	480.5	50.	25.45	34.53	22.87	501.9	0.253				
103.	20.80	34.93	5.32		24.51	346.7	75.	25.19	34.65	23.04	486.8	0.377				
127.	19.09	34.99	5.02		25.01	300.2	100.	21.34	34.90	24.35	362.7	0.484				
154.	15.61	34.48	3.99		25.45	258.0	150.	16.19	34.57	25.39	264.1	0.642				
177.	12.33	34.20	3.52		25.92	213.2	200.	10.74	34.16	26.19	188.3	0.756				
204.	10.61	34.17	4.06		26.22	185.3	250.	10.78	34.54	26.47	162.4	0.844				
228.	10.59	34.32	2.24		26.34	174.5	300.	10.07	34.59	26.64	147.7	0.923				
254.	10.80	34.57	0.73		26.50	160.3	400.	8.98	34.56	26.80	133.7	1.065				
280.	10.35	34.60	0.51		26.60	150.9	500.	8.02	34.56	26.95	120.7	1.193				
305.	10.01	34.58	0.53		26.64	147.2	600.	7.02	34.53	27.07	109.5	1.309				
406.	8.92	34.56	0.38		26.81	132.9	700.	6.19	34.52	27.17	100.0	1.415				
508.	7.95	34.56	0.48		26.96	119.8	800.	5.53	34.53	27.26	92.1	1.512				
609.	6.93	34.53	0.55		27.08	108.6	1000.	4.60	34.55	27.38	80.8	1.687				
811.	5.47	34.53	0.64		27.27	91.3	1200.	3.87	34.57	27.48	72.0	1.842				
1014.	4.55	34.55	0.84		27.39	80.1	1500.	3.08	34.60	27.58	62.3	2.046				
1215.	3.87	34.57	1.23		27.48	71.4										
1518.	3.04	34.60	1.75		27.58	61.8										

TEMPERATURE ERROR TERM AT 100. METERS IS 0.11

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 15, STATION 30, 16- ON LAT, 147-57W LONG, APR. 25, 1965, 0600 G.C.T.		DRY BULB 24.6		WET BULB 21.2		WIND SPEED 16, DIR. 09		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	QXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.55	34.53	4.91		23.14	473.7	0.	24.55	34.53	23.14	473.7	0.000			
10.	24.55	34.53	5.18		23.14	474.1	10.	24.55	34.53	23.14	474.1	0.048			
47.	23.57	34.49	5.16		23.40	450.7	20.	24.39	34.50	23.17	472.2	0.095			
72.	22.60	34.74	5.20		23.87	406.9	30.	24.15	34.48	23.23	466.9	0.143			
95.	22.00	35.01	5.08		24.25	372.1	50.	23.45	34.51	23.45	445.9	0.235			
118.	20.18	35.04	4.99		24.76	323.4	75.	22.55	34.78	23.92	402.7	0.342			
142.	19.27	35.01	4.81		25.98	303.7	100.	21.62	35.03	24.37	360.7	0.438			
165.	17.20	34.68	4.42		25.24	279.1	150.	18.65	34.91	25.06	296.0	0.603			
189.	14.47	34.37	4.07		25.62	243.0	200.	13.27	34.25	25.79	226.9	0.735			
211.	12.14	34.17	3.93		25.94	212.7	250.	10.64	34.29	26.31	178.1	0.837			
235.	10.90	34.17	4.24		26.17	191.0	300.	9.96	34.47	26.57	154.3	0.921			
259.	10.58	34.37	1.74		26.38	171.3	400.	7.73	34.33	26.81	131.7	1.065			
282.	10.39	34.48	1.00		26.50	160.5	500.	7.06	34.46	27.01	113.7	1.189			
376.	7.98	34.30	1.38		26.75	137.1	600.	6.30	34.47	27.12	103.8	1.299			
470.	7.30	34.45	0.52		26.96	117.7	700.	5.67	34.48	27.21	95.9	1.400			
565.	6.55	34.47	0.46		27.08	104.1	800.	5.16	34.50	27.28	89.6	1.493			
755.	5.37	34.49	0.60		27.25	92.3	1000.	4.36	34.53	27.40	78.8	1.664			
936.	4.61	34.52	0.86		27.36	82.3	1200.	3.71	34.57	27.49	70.2	1.815			
1075.	4.09	34.55	0.92		27.44	75.0									
1304.	3.44	34.58	1.28		27.53	66.7									

TEMPERATURE ERROR TERM AT 300. METERS IS 0.11

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 15, STATION 31, 17-31N LAT, 147-59W LONG, APR. 25, 1965, 1500 G.C.T.		DRY BULB 23.7		WET BULB 20.9		WIND SPEED 16, DIR. 08		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 3	
DEPTH	TEMP.	SAL.	QXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.72	34.59	5.41		23.43	445.9	0.	23.72	34.59	23.43	445.9	0.000			
10.	23.71	34.60	5.43		23.45	445.3	10.	23.71	34.60	23.45	445.3	0.045			
50.	22.76	34.93	5.53		23.97	396.7	20.	23.55	34.67	23.55	436.0	0.089			
75.	22.12	35.04	5.51		24.23	372.4	30.	23.33	34.75	23.67	424.8	0.133			
98.	21.68	35.23	5.37		24.50	347.8	50.	22.76	34.93	23.97	396.7	0.215			
122.	20.53	35.17	5.21		24.77	323.0	75.	22.12	35.04	24.23	372.4	0.312			
147.	19.30	35.04	5.02		24.99	302.4	100.	21.60	35.23	24.52	345.6	0.403			
171.	18.37	34.90	4.90		25.12	290.8	150.	19.21	35.03	25.01	301.2	0.566			
195.	16.26	34.60	4.60		25.40	264.7	200.	15.72	34.53	25.47	258.3	0.707			
220.	13.63	34.28	4.16		25.73	233.5	250.	11.53	34.19	26.07	201.0	0.822			
245.	11.80	34.19	3.88		26.02	205.8	300.	9.48	34.14	26.39	170.6	0.916			
270.	10.59	34.19	3.44		26.24	184.9	400.	7.99	34.29	26.74	138.1	1.072			
292.	9.69	34.14	3.46		26.35	174.0	500.	6.98	34.39	26.97	117.7	1.201			
390.	8.11	34.28	1.70		26.71	140.8	600.	6.06	34.41	27.10	105.7	1.314			
488.	7.10	34.39	0.60		26.95	119.5	700.	5.46	34.45	27.21	95.7	1.416			
586.	6.16	34.40	0.76		27.08	107.2	800.	5.01	34.49	27.29	87.9	1.509			
782.	5.10	34.49	0.90		27.28	89.1	1000.	4.20	34.53	27.41	77.4	1.676			
978.	4.27	34.52	1.07		27.40	78.5	1200.	3.58	34.55	27.50	69.5	1.825			
1175.	3.69	34.56	1.25		27.49	70.2									
1473.	2.94	34.56	1.94		27.56	63.3									

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 15, STATION 32, 17- ON LAT, 147-59W LONG, APR. 25, 1965, 2300 G.C.T.		DRY BULB 24.2		WET BULB 21.5		WIND SPEED 17, DIR. 09		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	QXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.60	34.42	5.03		23.34	454.8	0.	23.60	34.42	23.34	454.8	0.000			
11.	23.52	34.42	5.18		23.36	453.0	10.	23.53	34.42	23.36	453.3	0.046			
52.	22.82	34.70	5.07		23.78	415.0	20.	23.44	34.47	23.42	447.8	0.091			
77.	21.89	34.84	5.13		24.15	380.8	30.	23.30	34.53	23.51	439.9	0.136			
102.	21.44	35.01	5.05		24.40	357.5	50.	22.87	34.68	23.75	417.7	0.222			
127.	20.66	35.03	4.94		24.63	336.7	75.	21.96	34.83	24.12	383.5	0.323			
152.	19.66	35.04	4.78		24.90	311.5	100.	21.47	35.00	24.38	359.1	0.417			
177.	18.94	34.98	4.76		25.04	299.0	150.	19.74	35.04	24.88	313.4	0.586			
202.	16.32	34.60	4.42		25.39	266.3	200.	16.56	34.63	25.36	269.1	0.733			
228.	13.83	34.32	4.15		25.72	234.7	250.	12.15	34.21	25.97	211.1	0.854			
253.	11.96	34.20	4.02		26.00	208.2	300.	9.85	34.14	26.33	176.8	0.952			
279.	10.71	34.15	4.39		26.19	190.1	400.	7.69	34.24	26.74	138.1	1.111			
303.	9.74	34.14	3.46		26.34	175.1	500.	6.81	34.37	26.97	116.9	1.239			
403.	7.66	34.24	1.60		26.75	137.3	600.	6.28	34.45	27.10	105.6	1.352			
505.	6.79	34.38	0.68		26.98	116.2	700.	5.67	34.47	27.20	96.7	1.454			
607.	6.25	34.45	0.46		27.11	105.0	800.	5.07	34.48	27.28	89.6	1.548			
808.	5.02	34.48	0.76		27.28	89.1	1000.	4.28	34.51	27.39	79.6	1.719			
1008.	4.25	34.51	0.98		27.39	79.3	1200.	3.63	34.55	27.49	70.5	1.871			
1209.	3.60	34.55	1.22		27.49	70.1	1500.	2.97	34.59	27.58	61.7	2.072			
1511.	2.95	34.59	1.39		27.58	61.4									

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 15, STATION 33, 20-31M LAT, 147-56W LONG, APR. 26, 1965, 0800 G.C.T.													
DRY BULB 23.0		WET BULB 20.1		WIND SPEED 17, DIR. 10			BAR. 21		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.65	34.52	5.29		23.40	449.0	0.	23.65	34.52	23.40	449.0	0.000	
10.	23.70	34.53	5.46		23.40	450.0	10.	23.70	34.53	23.40	450.0	0.045	
51.	23.00	34.66	5.38		23.70	422.8	20.	23.60	34.53	23.43	447.5	0.090	
75.	22.59	34.99	5.44		24.06	388.7	30.	23.45	34.55	23.48	442.4	0.135	
99.	21.74	35.07	5.29		24.36	361.0	50.	23.03	34.65	23.68	424.0	0.223	
124.	21.27	35.15	5.16		24.55	343.8	75.	22.59	34.99	24.06	388.7	0.325	
149.	19.39	35.04	4.80		24.97	304.7	100.	21.73	35.08	24.37	360.4	0.419	
173.	18.39	34.95	4.99		25.16	287.7	150.	19.34	35.04	24.98	303.8	0.587	
199.	16.96	34.72	4.82		25.33	271.8	200.	16.87	34.71	25.34	270.7	0.731	
224.	14.75	34.44	4.87		25.61	244.7	250.	13.19	34.29	25.82	224.9	0.856	
248.	13.31	34.30	4.41		25.81	226.4	300.	10.78	34.13	26.16	193.2	0.962	
273.	11.88	34.18	4.14		25.99	208.7	400.	8.58	34.35	26.70	142.9	1.131	
299.	10.81	34.13	4.34		26.15	193.8	500.	6.99	34.33	26.92	122.5	1.265	
397.	8.64	34.35	1.34		26.69	143.8	600.	6.32	34.42	27.08	108.0	1.382	
497.	7.02	34.33	0.87		26.91	123.0	700.	5.70	34.47	27.19	97.5	1.486	
596.	6.35	34.42	0.58		27.07	108.4	800.	5.16	34.49	27.28	90.0	1.580	
795.	5.14	34.49	0.74		27.27	90.3	1000.	4.36	34.51	27.38	80.4	1.753	
993.	4.38	34.51	0.74		27.38	80.7	1200.	3.72	34.54	27.47	71.9	1.907	
1193.	3.78	34.55	1.11		27.47	72.2							
1493.	2.95	34.59	1.59		27.58	61.3							

CROMWELL 15, STATION 34, 22- 1M LAT, 147-56W LONG, APR. 26, 1965, 1700 G.C.T.													
DRY BULB 22.0		WET BULB 19.5		WIND SPEED 10, DIR. 10			BAR. 22		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.37	34.60	5.14		23.54	435.4	0.	23.37	34.60	23.54	435.4	0.000	
9.	23.38	34.60	5.14		23.54	436.0	10.	23.37	34.60	23.54	436.1	0.044	
50.	22.76	34.65	5.07		23.76	416.9	20.	23.29	34.58	23.55	435.5	0.088	
74.	22.15	34.95	5.12		24.16	379.7	30.	23.16	34.58	23.59	432.0	0.131	
97.	21.79	35.14	5.07		24.40	357.2	50.	22.76	34.65	23.76	416.9	0.217	
121.	21.20	35.15	4.91		24.57	341.8	75.	22.13	34.96	24.17	378.5	0.317	
147.	19.94	35.04	4.58		24.83	318.4	100.	21.74	35.15	24.42	355.2	0.410	
170.	19.33	35.04	4.50		24.99	303.9	150.	19.87	35.04	24.85	316.5	0.579	
196.	17.60	34.78	4.36		25.22	282.1	200.	17.32	34.75	25.26	278.3	0.729	
219.	15.97	34.59	4.53		25.46	259.8	250.	13.69	34.34	25.76	231.0	0.857	
243.	14.24	34.39	4.59		25.68	238.4	300.	10.73	34.15	26.18	190.7	0.963	
268.	12.36	34.24	4.58		25.95	213.1	400.	8.30	34.09	26.54	157.5	1.139	
292.	11.04	34.17	4.54		26.14	194.7	500.	6.68	34.21	26.86	127.1	1.283	
396.	8.38	34.09	3.71		26.52	159.0	600.	5.81	34.28	27.03	111.4	1.403	
487.	6.83	34.20	1.42		26.83	129.8	700.	5.11	34.36	27.18	97.9	1.509	
585.	5.93	34.27	0.87		27.01	113.8	800.	4.62	34.43	27.29	87.6	1.603	
780.	4.69	34.42	0.77		27.27	89.1	1000.	4.08	34.52	27.42	76.6	1.769	
975.	4.15	34.51	0.97		27.40	77.7	1200.	3.55	34.56	27.51	68.4	1.916	
1171.	3.60	34.55	1.20		27.49	69.8							
1466.	2.94	34.59	1.49		27.59	61.0							

CROMWELL 15, STATION 35, 23-30M LAT, 147-55W LONG, APR. 27, 1965, 0100 G.C.T.													
DRY BULB 23.7		WET BULB 19.9		WIND SPEED 09, DIR. 08			BAR. 20		WEATHER 00		VIS. 8		CLOUD TYPE 6, COVER 6
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.96	34.93	5.40		23.91	400.3	0.	22.96	34.93	23.91	400.3	0.000	
10.	22.53	34.94	5.39		24.04	388.2	10.	22.53	34.94	24.04	388.2	0.040	
30.Δ	21.50	35.17			24.51	344.9	20.	21.99	35.05	24.28	366.3	0.078	
52.	21.10	35.24	5.40		24.67	330.2	30.	21.50	35.17	24.51	344.9	0.114	
77.	20.61	35.22	5.28		24.79	319.9	50.	21.12	35.24	24.66	330.7	0.182	
101.	19.74	35.13	5.04		24.95	305.2	75.	20.66	35.22	24.78	320.7	0.264	
127.	19.02	35.06	5.01		25.08	293.4	100.	19.78	35.13	24.94	305.8	0.343	
152.	17.85	34.88	4.98		25.24	279.3	150.	17.95	34.90	25.22	280.4	0.490	
176.	16.64	34.69	4.85		25.38	266.1	200.	15.14	34.51	25.58	247.0	0.623	
202.	15.02	34.50	5.02		25.60	245.4	250.	12.43	34.26	25.95	212.7	0.739	
227.	13.79	34.36	5.14		25.76	231.0	300.	10.63	34.14	26.19	189.7	0.841	
252.	12.32	34.25	5.16		25.97	211.2	400.	8.20	34.05	26.52	159.2	1.017	
277.	11.45	34.19	5.18		26.08	200.2	500.	6.10	34.04	26.80	131.9	1.163	
302.	10.56	34.14	5.13		26.20	188.8	600.	5.27	34.17	27.01	113.1	1.287	
401.	8.18	34.05	4.10		26.52	159.0	700.	4.78	34.30	27.17	98.4	1.394	
501.	6.08	34.04	2.41		26.81	131.7	800.	4.47	34.41	27.29	87.6	1.488	
602.	5.26	34.17	1.00		27.01	112.8	1000.	4.01	34.50	27.41	77.0	1.655	
802.	4.47	34.41	0.73		27.29	87.4	1200.	3.50	34.55	27.50	68.9	1.802	
1003.	4.00	34.50	1.12		27.41	76.9							
1174.	3.53	34.54	1.22		27.49	69.7							
1409.	3.04	34.57	1.48		27.56	63.3							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL 15, STATION 36, 24-59N LAT, 147-56W LONG, APR. 27, 1965, 0900 G.C.T.														
DRY BULB 22.3		WET BULB 20.0		WIND SPEED 14, DIR. 07			BAR. 23		WEATHER 00		VIS. 7		CLOUD TYPE , COVER 0	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.83	34.90	5.17		23.93	398.9	0.	22.83	34.90	23.93	398.9	0.000		
10.	22.25	34.86	5.54		24.06	386.5	10.	22.25	34.86	24.06	386.5	0.040		
51.	20.71	35.12	5.27		24.68	328.7	20.	21.75	34.90	24.23	370.9	0.078		
76.	20.39	35.22	5.20		24.64	314.2	30.	21.34	34.95	24.39	356.3	0.114		
100.	19.96	35.19	5.24		24.94	306.3	50.	20.73	35.11	24.67	329.9	0.183		
125.	19.29	35.09	5.00		25.04	297.5	75.	20.40	35.22	24.84	314.6	0.265		
151.	18.16	34.91	4.77		25.18	284.4	100.	19.96	35.19	24.94	306.3	0.343		
175.	16.38	34.67	4.84		25.43	261.7	150.	18.21	34.92	25.18	285.0	0.492		
200.	14.72	34.46	4.92		25.64	242.0	200.	14.72	34.46	25.64	242.0	0.625		
225.	13.42	34.34	4.86		25.82	225.1	250.	12.53	34.29	25.96	212.2	0.739		
250.	12.53	34.29	5.00		25.96	212.2	300.	10.96	34.16	26.15	194.2	0.842		
275.	11.61	34.23	5.03		26.08	200.1	400.	8.72	34.07	26.45	165.8	1.023		
300.	10.96	34.16	4.98		26.15	194.2	500.	6.58	34.02	26.73	139.8	1.178		
399.	8.74	34.07	4.40		26.45	166.1	600.	5.16	34.08	26.95	118.0	1.308		
499.	6.60	34.02	2.88		26.72	140.1	700.	4.51	34.21	27.13	101.7	1.419		
598.	5.19	34.08	1.47		26.95	118.4	800.	4.23	34.34	27.26	89.6	1.515		
798.	4.24	34.34	0.48		27.26	89.8	1000.	3.77	34.46	27.40	77.0	1.604		
997.	3.78	34.46	1.00		27.40	77.2	1200.	3.35	34.54	27.51	67.7	1.831		
1197.	3.34	34.54	1.34		27.51	67.6								
1499.	2.82	34.58	1.55		27.59	60.5								

CROMWELL 15, STATION 37, 26-30N LAT, 148-4W LONG, APR. 27, 1965, 1800 G.C.T.														
DRY BULB 20.6		WET BULB 19.0		WIND SPEED 10, DIR. 05			BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.79	35.25	5.48		24.49	345.6	0.	21.79	35.25	24.49	345.6	0.000		
10.	21.46	35.24	5.90		24.57	338.0	10.	21.46	35.24	24.57	338.0	0.034		
30.Δ	20.78	35.23			24.75	321.8	20.	21.10	35.23	24.66	329.4	0.068		
51.	20.45	35.22	5.50		24.83	314.8	30.	20.78	35.23	24.75	321.8	0.101		
76.	20.34	35.22	5.54		24.86	312.9	50.	20.46	35.22	24.83	315.0	0.165		
101.	19.75	35.18	5.44		24.98	301.8	75.	20.35	35.22	24.86	313.0	0.244		
125.	18.30	34.95	5.17		25.18	283.9	100.	19.79	35.18	24.98	302.4	0.322		
151.	16.65	34.71	5.13		25.39	264.0	150.	16.71	34.72	25.39	264.8	0.465		
176.	15.35	34.53	5.11		25.55	249.4	200.	13.86	34.37	25.75	231.3	0.590		
201.	13.80	34.36	5.08		25.75	230.5	250.	11.92	34.24	26.03	204.5	0.699		
226.	12.62	34.27	5.13		25.92	214.7	300.	10.72	34.19	26.21	187.8	0.798		
251.	11.90	34.24	5.16		26.04	204.1	400.	8.50	34.07	26.49	162.3	0.975		
276.	11.18	34.20	5.18		26.14	194.6	500.	6.68	34.01	26.70	141.9	1.129		
300.	10.72	34.19	5.25		26.21	187.8	600.	5.25	34.08	26.94	119.5	1.261		
401.	8.48	34.07	4.55		26.49	162.1	700.	4.56	34.18	27.10	104.2	1.374		
502.	6.65	34.01	3.29		26.71	141.5	800.	4.23	34.30	27.22	92.9	1.473		
602.	5.23	34.08	1.54		26.94	119.1	1000.	3.67	34.46	27.41	76.1	1.644		
803.	4.23	34.30	0.44		27.23	92.7	1200.	3.19	34.53	27.51	66.8	1.789		
1005.	3.66	34.46	0.86		27.41	75.8	1500.	2.64	34.59	27.61	57.7	1.978		
1206.	3.18	34.53	1.27		27.52	66.5								
1508.	2.63	34.59	1.64		27.61	57.6								

CROMWELL 15, STATION 38, 25-24N LAT, 151-4W LONG, APR. 28, 1965, 1100 G.C.T.														
DRY BULB 21.0		WET BULB 19.0		WIND SPEED 13, DIR. 03			BAR. 21		WEATHER 02		VIS. 6		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.64	34.91			23.99	393.0	0.	22.64	34.91	23.99	393.0	0.000		
11.	22.63	34.92			24.00	392.4	10.	22.63	34.92	24.00	392.6	0.040		
30.Δ	22.56	34.97			24.06	387.6	20.	22.63	34.93	24.01	391.7	0.079		
51.	21.98	35.15			24.36	359.8	30.	22.56	34.97	24.06	387.6	0.118		
77.	20.48	35.17			24.78	320.1	50.	22.02	35.14	24.34	361.5	0.194		
102.	19.61	35.09			24.95	304.9	75.	20.60	35.17	24.75	322.8	0.280		
126.	18.91	35.02			25.08	293.6	100.	19.67	35.10	24.94	305.6	0.359		
153.	17.77	34.86			25.24	278.9	150.	17.92	34.88	25.22	280.8	0.507		
177.	16.18	34.64			25.45	259.5	200.	14.95	34.47	25.59	246.0	0.640		
203.	14.80	34.45			25.61	244.4	250.	12.68	34.25	25.89	217.9	0.757		
228.	13.61	34.32			25.76	230.4	300.	10.96	34.15	26.14	195.1	0.861		
254.	12.52	34.24			25.92	215.7	400.	8.43	34.06	26.49	161.9	1.041		
278.	11.65	34.19			26.05	203.8	500.	6.44	34.05	26.77	135.8	1.191		
304.	10.84	34.14			26.15	193.7	600.	5.36	34.15	26.98	115.4	1.318		
404.	8.34	34.06			26.51	160.7	700.	4.77	34.26	27.14	100.8	1.427		
505.	6.36	34.05			26.78	134.7	800.	4.43	34.36	27.26	90.3	1.524		
606.	5.32	34.16			26.99	114.3	1000.	4.01	34.49	27.40	77.9	1.694		
808.	4.41	34.37			27.26	89.7	1200.	3.46	34.53	27.49	69.9	1.844		
1009.	3.99	34.49			27.40	77.6	1500.	2.87	34.58	27.58	61.2	2.043		
1210.	3.43	34.53			27.49	69.5	2000.	2.14	34.64	27.69	50.4	2.327		
1512.	2.85	34.58			27.59	61.0	2500.	1.78	34.67	27.75	45.8	2.572		
1997.	2.14	34.64			27.69	50.5	3000.	1.58	34.68	27.77	44.0	2.801		
2507.	1.78	34.67			27.75	45.8	4000.	1.50	34.70	27.79	44.2	3.253		
3011.	1.58	34.68			27.77	44.0	5000.	1.50	34.70	27.79	46.7	3.722		
4018.	1.50	34.70			27.79	44.2								
5017.	1.50	34.70			27.79	46.8								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 15, STATION 39, 24-59N LAT, 154-2W LONG, APR. 29, 1965, 0400 G.C.T.		WET BULB 20.0		WIND SPEED 24, DIR. 07		BAR. 18		WEATHER 16		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.	23.01	34.64	5.32		23.68	422.6	0.	23.01	34.64	23.68	422.6	0.000	
10.	23.02	34.64	5.23		23.68	423.3	10.	23.02	34.64	23.68	423.3	0.043	
30.Δ	23.01	34.64			23.68	423.7	20.	23.06	34.63	23.65	426.2	0.085	
52.	21.86	34.89	5.14		24.19	375.4	30.	23.01	34.64	23.68	423.7	0.128	
78.	21.20	35.19	5.31		24.60	337.3	50.	21.98	34.86	24.14	380.5	0.209	
103.	20.53	35.19	5.12		24.78	320.9	75.	21.26	35.16	24.57	340.7	0.300	
128.	19.26	35.01	4.63		24.98	302.9	100.	20.63	35.20	24.77	322.4	0.384	
154.	18.19	34.92	4.69		25.18	284.5	150.	18.37	34.94	25.15	287.3	0.537	
179.	16.55	34.65	4.29		25.37	267.0	200.	14.99	34.48	25.59	246.6	0.672	
205.	14.63	34.44	4.49		25.64	241.7	250.	12.13	34.21	25.97	210.2	0.787	
229.	13.16	34.30	4.65		25.84	223.0	300.	10.58	34.14	26.20	189.3	0.888	
255.	11.93	34.20	4.80		26.00	207.7	400.	8.18	34.10	26.56	155.5	1.062	
280.	11.37	34.17	4.16		26.09	199.4	500.	6.53	34.14	26.83	129.9	1.206	
305.	10.39	34.13	4.22		26.23	186.7	600.	5.65	34.21	27.00	114.5	1.329	
407.	8.07	34.10	3.11		26.58	153.8	700.	5.12	34.31	27.14	101.6	1.438	
509.	6.41	34.15	1.66		26.85	128.0	800.	4.72	34.41	27.26	90.7	1.536	
610.	5.59	34.22	1.07		27.01	113.3	1000.	3.99	34.48	27.39	78.4	1.707	
814.	4.68	34.42	0.72		27.27	89.3	1200.	3.48	34.54	27.49	69.7	1.857	
1015.	3.94	34.48	1.03		27.40	77.8	1500.	2.89	34.59	27.59	60.8	2.055	
1216.	3.45	34.54	1.27		27.50	69.1							
1520.	2.86	34.59	1.58		27.59	60.4							

CROMWELL 15, STATION 40, 25-0N LAT, 157-0W LONG, APR. 29, 1965, 1900 G.C.T.		WET BULB 19.5		WIND SPEED 23, DIR. 06		BAR. 22		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.23	34.99			24.17	376.2	0.	22.23	34.99	24.17	376.2	0.000	
10.	22.25	34.99			24.16	377.1	10.	22.25	34.99	24.16	377.1	0.038	
51.	22.01	35.10			24.31	364.2	20.	22.27	35.00	24.17	377.0	0.076	
75.	21.32	35.21			24.59	338.9	30.	22.24	35.03	24.19	374.9	0.114	
99.	20.97	35.21			24.68	330.7	50.	22.03	35.10	24.30	364.9	0.188	
125.	20.35	35.20			24.84	316.4	75.	21.32	35.21	24.59	338.9	0.277	
151.	19.60	35.16			24.99	303.3	100.	20.95	35.21	24.69	330.2	0.361	
174.	18.31	35.02			25.10	292.8	150.	19.71	35.16	24.98	303.8	0.521	
199.	17.64	34.84			25.26	278.8	200.	17.59	34.83	25.26	278.2	0.668	
223.	16.34	34.66			25.43	263.0	250.	14.64	34.46	25.65	241.9	0.799	
248.	14.76	34.47			25.63	243.4	300.	12.22	34.23	25.97	212.1	0.913	
273.	13.42	34.34			25.82	226.3	400.	9.54	34.10	26.35	176.5	1.109	
296.	12.36	34.24			25.95	213.8	500.	6.94	34.03	26.69	143.9	1.271	
393.	9.75	34.11			26.32	179.2	600.	5.67	34.09	26.90	123.7	1.406	
490.	7.11	34.03			26.66	146.3	700.	4.84	34.19	27.07	107.3	1.523	
585.	5.83	34.08			26.87	126.5	800.	4.36	34.30	27.21	94.3	1.625	
775.	4.44	34.27			27.18	97.1	1000.	3.92	34.48	27.40	77.4	1.799	
962.	4.03	34.46			27.36	79.9	1200.	3.43	34.56	27.52	67.1	1.945	
1152.	3.50	34.53			27.48	69.9							
1448.	2.87	34.57			27.58	61.5							

CROMWELL 15, STATION 41, 23-31N LAT, 156-58W LONG, APR. 30, 1965, 0500 G.C.T.		WET BULB 19.9		WIND SPEED 19, DIR. 09		BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 9, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	22.72	34.71			23.81	409.7	0.	22.72	34.71	23.81	409.6	0.000	
11.	22.71	34.72			23.83	409.1	10.	22.71	34.72	23.82	409.2	0.041	
30.Δ	22.62	34.76			23.88	404.4	20.	22.71	34.72	23.82	409.6	0.082	
50.	21.84	35.13			24.39	357.5	30.	22.62	34.76	23.88	404.4	0.123	
74.	21.52	35.21			24.53	344.1	50.	21.84	35.13	24.38	357.5	0.200	
98.	21.16	35.21			24.63	335.6	75.	21.51	35.21	24.53	343.8	0.289	
122.	20.61	35.19			24.76	324.4	100.	21.12	35.21	24.64	334.7	0.374	
147.	19.92	35.14			24.91	310.6	150.	19.84	35.13	24.92	309.3	0.536	
171.	19.10	35.04			25.04	298.3	200.	17.36	34.80	25.29	275.5	0.684	
195.	17.60	34.83			25.26	278.5	250.	14.34	34.42	25.69	238.3	0.813	
220.	16.36	34.66			25.42	263.3	300.	11.50	34.16	26.05	203.7	0.925	
243.	14.85	34.44			25.62	244.4	400.	8.86	34.07	26.43	168.2	1.112	
269.	13.01	34.28			25.85	222.6	500.	6.45	34.04	26.76	136.2	1.266	
292.	11.79	34.18			26.01	207.5	600.	5.46	34.19	27.00	113.8	1.392	
389.	9.17	34.08			26.39	172.2	700.	4.81	34.30	27.16	98.6	1.499	
487.	6.64	34.03			26.73	139.7	800.	4.40	34.39	27.28	88.2	1.594	
584.	5.59	34.17			26.97	116.7	1000.	3.91	34.51	27.43	75.2	1.759	
779.	4.47	34.37			27.26	90.1	1200.	3.40	34.56	27.52	66.6	1.903	
975.	3.98	34.50			27.41	76.4							
1171.	3.42	34.54			27.50	68.4							
1466.	2.84	34.58			27.59	60.6							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
GROMWELL 15, STATION 42, 22-03N LAT, 157-04W LONG, APR. 30, 1965, 1500 G.C.T.													
DRY BULB 22.3		WET BULB 20.1		WIND SPEED 21, DIR. 07		BAR. 17		WEATHER 00		VIS. 6		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CHL.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.45	35.05			23.86	405.2	0.	23.45	35.05	23.86	405.2	0.000	
10.	23.47	35.05			23.86	406.1	10.	23.47	35.05	23.86	406.1	0.041	
52.	22.16	35.18			24.33	362.5	20.	23.23	35.08	23.95	397.9	0.081	
77.	21.71	35.21			24.48	349.3	30.	22.94	35.11	24.05	388.4	0.121	
102.	21.24	35.22			24.62	337.1	50.	22.24	35.17	24.30	365.1	0.197	
128.	20.38	35.15			24.79	320.9	75.	21.74	35.21	24.47	350.2	0.287	
155.	18.86	34.98			25.06	296.3	100.	21.28	35.22	24.60	338.1	0.374	
179.	17.36	34.77			25.27	276.7	150.	19.17	35.02	25.01	301.0	0.535	
205.	15.82	34.60			25.50	255.3	200.	16.11	34.63	25.46	259.5	0.676	
231.	14.23	34.46			25.74	232.7	250.	12.92	34.33	25.91	216.7	0.796	
255.	12.61	34.30			25.95	213.1	300.	10.90	34.19	26.18	190.8	0.899	
281.	11.72	34.24			26.07	201.5	400.	7.73	34.06	26.60	151.6	1.071	
305.	10.68	34.18			26.21	188.0	500.	6.07	34.15	26.90	123.2	1.210	
407.	7.58	34.06			26.62	149.5	600.	5.33	34.27	27.08	106.3	1.326	
511.	5.96	34.17			26.92	120.6	700.	4.89	34.37	27.21	94.5	1.428	
611.	5.20	34.28			27.09	105.0	800.	4.56	34.45	27.31	85.5	1.519	
814.	4.52	34.46			27.32	84.4	1000.	3.90	34.53	27.44	73.7	1.680	
1017.	3.85	34.53			27.45	73.0	1200.	3.39	34.56	27.52	66.9	1.822	
1219.	3.15	34.56			27.52	66.4	1500.	2.79	34.59	27.60	59.5	2.014	
1522.	2.76	34.59			27.60	59.2							

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12

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