

The Trade Wind Zone Oceanography Pilot Study  
Part IV: Townsend Cromwell Cruises 11, 12, and 13  
December 1964 to February 1965

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



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

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United States Fish and Wildlife Service  
Special Scientific Report--Fisheries No. 555

Washington, D. C.  
June 1967

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# The Trade Wind Zone Oceanography Pilot Study

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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 fourth set of three cruises, Townsend Cromwell cruises 11, 12, and 13, December 1964 to February 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 fourth of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 11th, 12th, and 13th cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

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

### Townsend Cromwell, cruise 11:

December 1 to 20, 1964

Thomas S. Hida - HL - Field Party Chief  
Joseph R. Harada - HL  
Henry M. Kishinami - HL  
Jerome S. W. Marr - HL  
Howard N. Morinaga - HL  
Charles J. Rollet - HL  
Roger B. Clapp - Smithsonian Institution

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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.

Warren King - Smithsonian Institution

Townsend Cromwell, cruise 12:

January 5 to 24, 1965

Robert L. Charnell - HL - Field Party Chief

Henry M. Kishinami - HL

Robert M. Moncrief - HL

Frank A. Moriguchi - HL

Alan M. Osato - HL

Patrick Gould - Smithsonian Institution

Warren King - Smithsonian Institution

Townsend Cromwell, cruise 13:

February 2 to 4 and 8 to 27, 1965

David W. K. Au - HL - Field Party Chief

Jerome S. W. Marr - HL

Howard N. Morinaga - HL

Alan M. Osato - HL

Charles J. Rollet - HL

Roger B. Clapp - Smithsonian Institution

Warren King - Smithsonian Institution

## OBSERVATIONS<sup>1/</sup>

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. Further bathythermograms were obtained during cruise 12 in conjunction with tests of the XBT (Sippican expendable bathythermograph)<sup>2/</sup>, carried out by Oscar E. Sette (BCF Biological Laboratory, Stanford, Calif. 94305).

Beginning with cruise 12, 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 was tested and used during cruise 13 to collect additional data at stations 7A, 25, and 42.

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

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

<sup>2/</sup>Trade names referred to in this publication do not imply endorsement of commercial products.

which stranded themselves on deck were collected daily. Squid were caught and preserved during cruises 11 and 12. 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.

### Current

Drift bottles or plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. The drift cards were released in groups of 10 at each cast during cruise 11. The drift bottles were released in groups of eight at each cast during cruises 12 and 13.

Current-measuring techniques were tested on cruises 11 and 12 by use of a Roberts current meter. On cruise 13 measurements were obtained from the Roberts current meter in the surface layers and an Ekman current meter at 1,200 m.

### 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 PO<sub>4</sub>-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to  $\pm 0.02^{\circ}\text{C}$ . Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were per-

formed with an IBM 7040 digital computer<sup>2/</sup> 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  $\pm 10$  m. down to 1,000 m. and within  $\pm 1$  percent below 1,000 m.

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

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

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than  $0.2^{\circ}\text{C}$ . The bucket salinity values 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  $0.003\text{ ‰}$  and the root mean square value was within  $0.07\text{ ‰}$  for each cruise.

## PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the

properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 11, 12, and 13, 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.  $148^{\circ}\text{ W.}$ ,  $151^{\circ}\text{ W.}$ ,  $154^{\circ}\text{ W.}$ , and  $157^{\circ}\text{ W.}$  based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 11, figures 8 through 13 for cruise 12, and figures 14 through 19 for cruise 13.

The surface temperature distributions, based on bucket or intake temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 11, 12, and 13, respectively.

The surface salinity distributions, based on bucket or intake salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 11, 12, and 13, respectively.

The dynamic topography, relative to 1,200 m. for cruises 11, 12, and 13, is shown in figures 26, 27, and 28, respectively.

## ACKNOWLEDGMENTS

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

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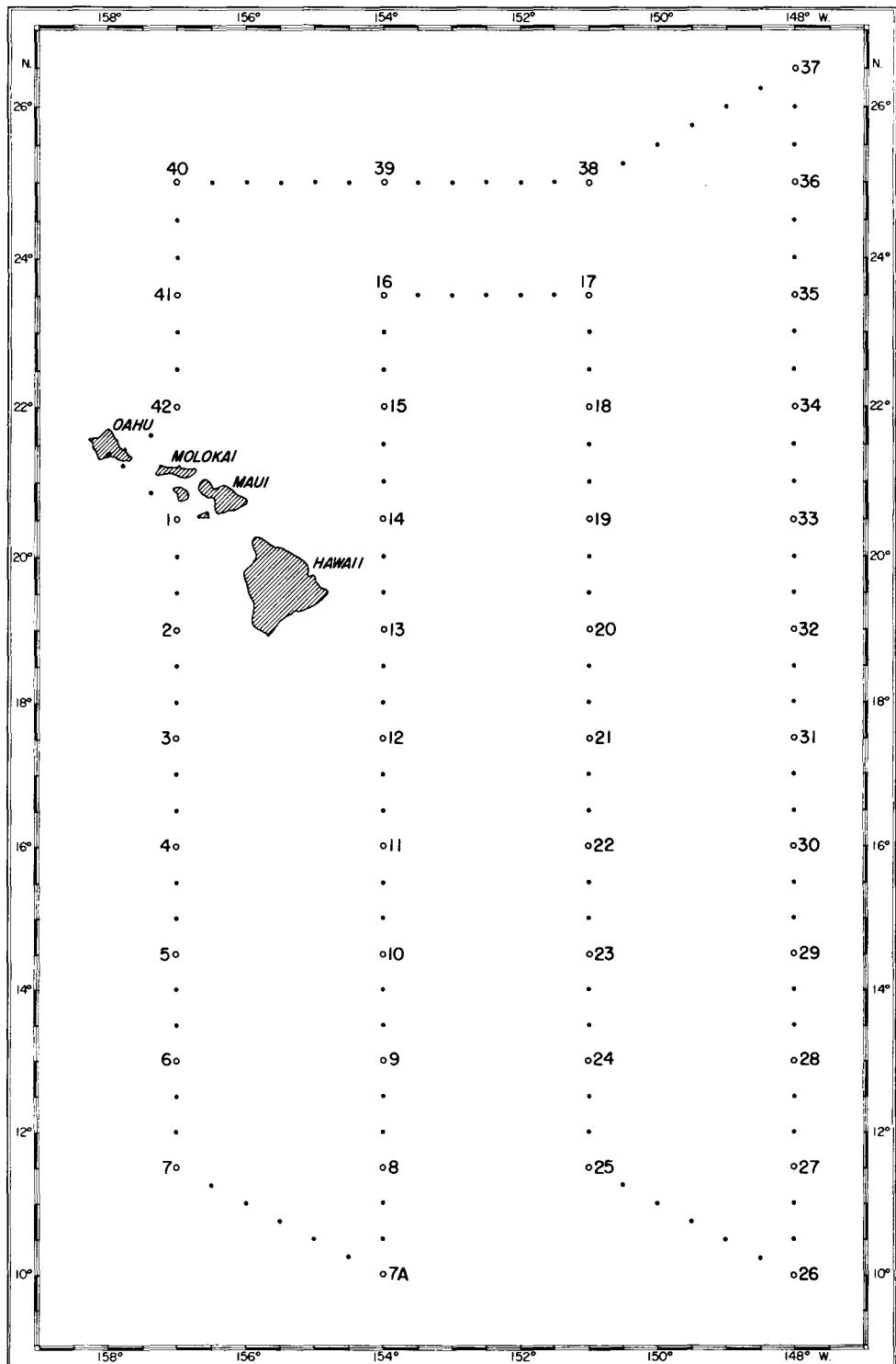


Figure 1.--Track chart for Townsend Cromwell cruises 11, 12, and 13. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

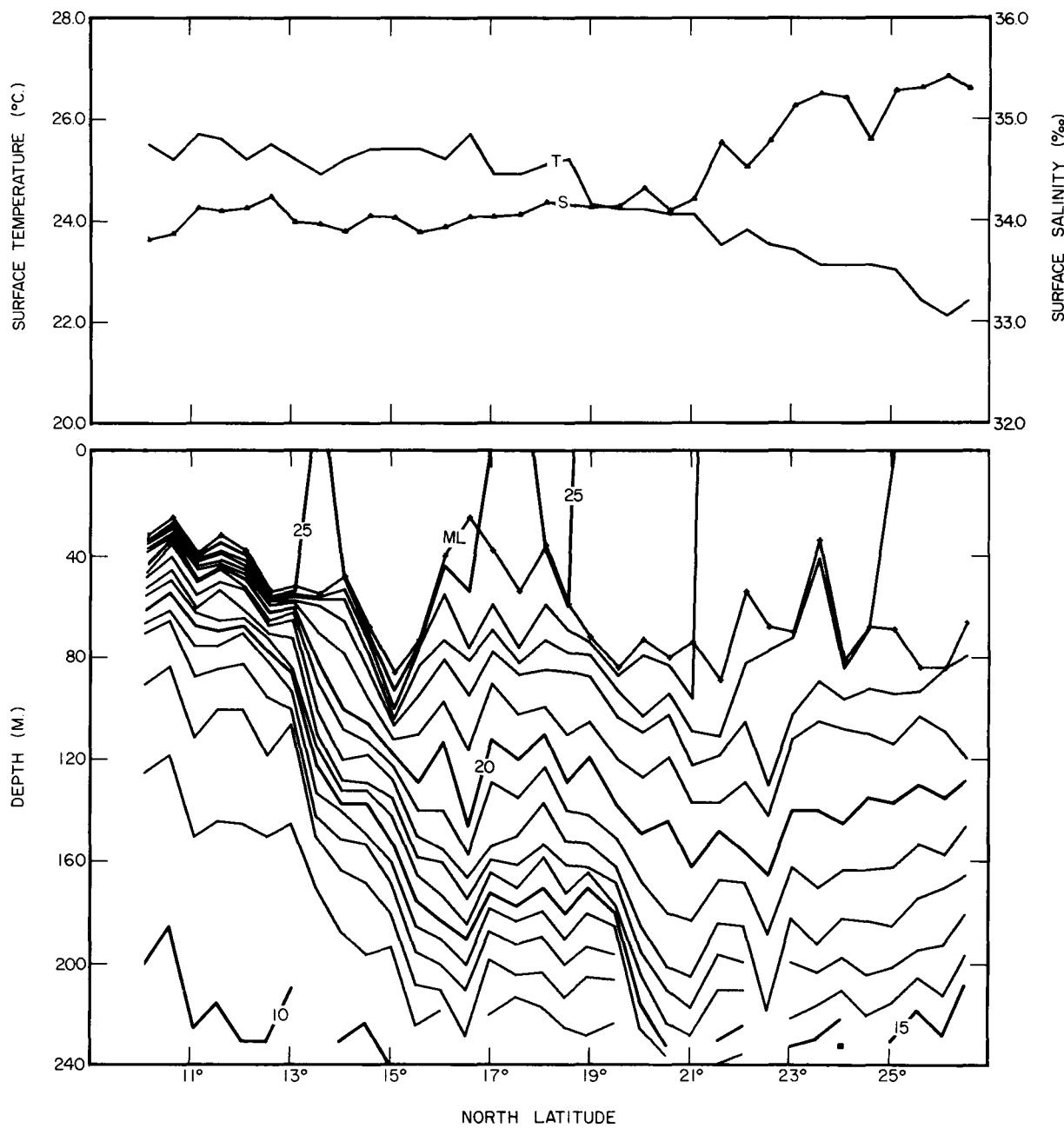


Figure 2.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/oo$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 11 along long.  $148^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

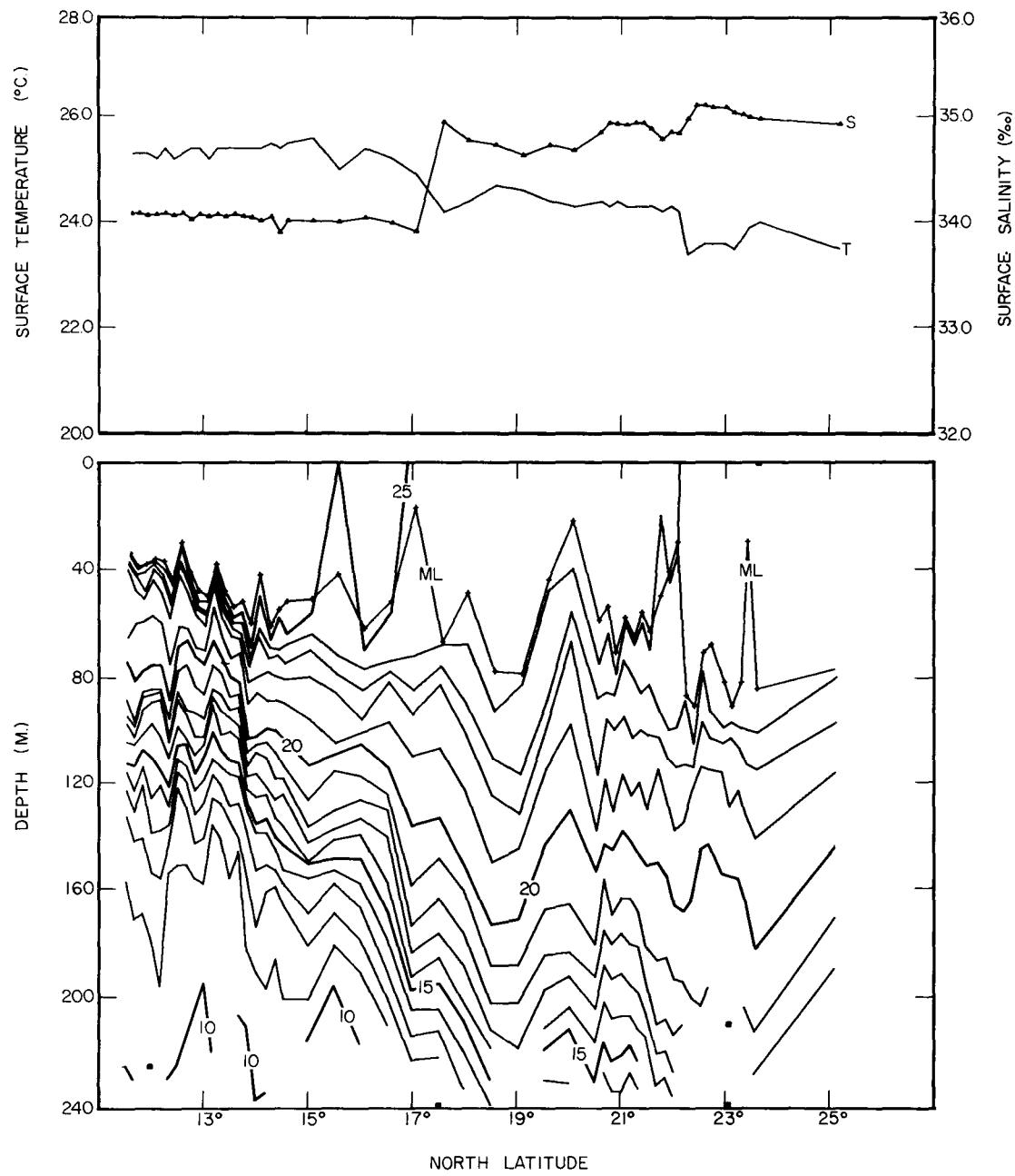


Figure 3.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $\text{‰}$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 11 along long.  $151^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

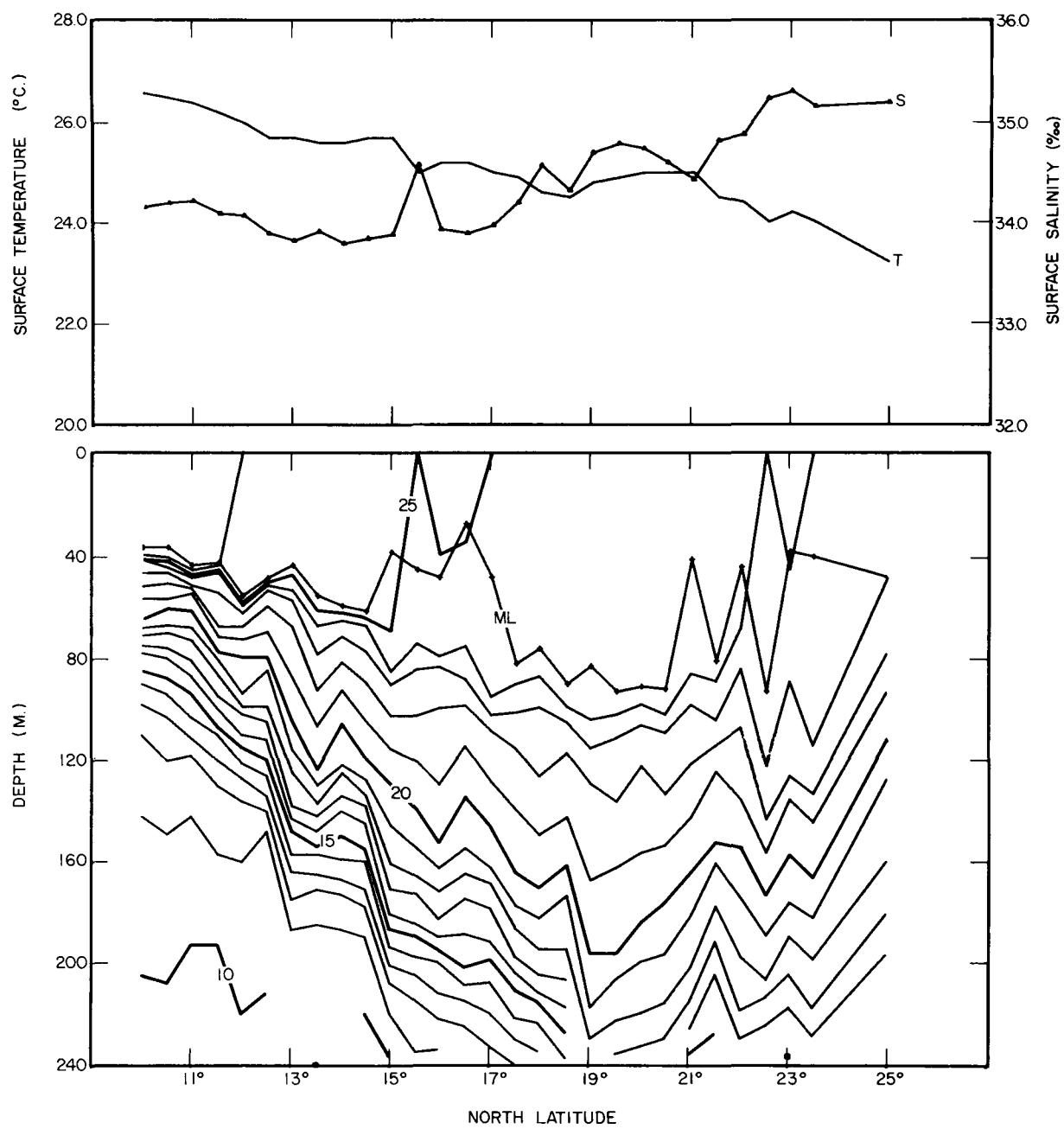


Figure 4.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/oo$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 11 along long.  $154^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

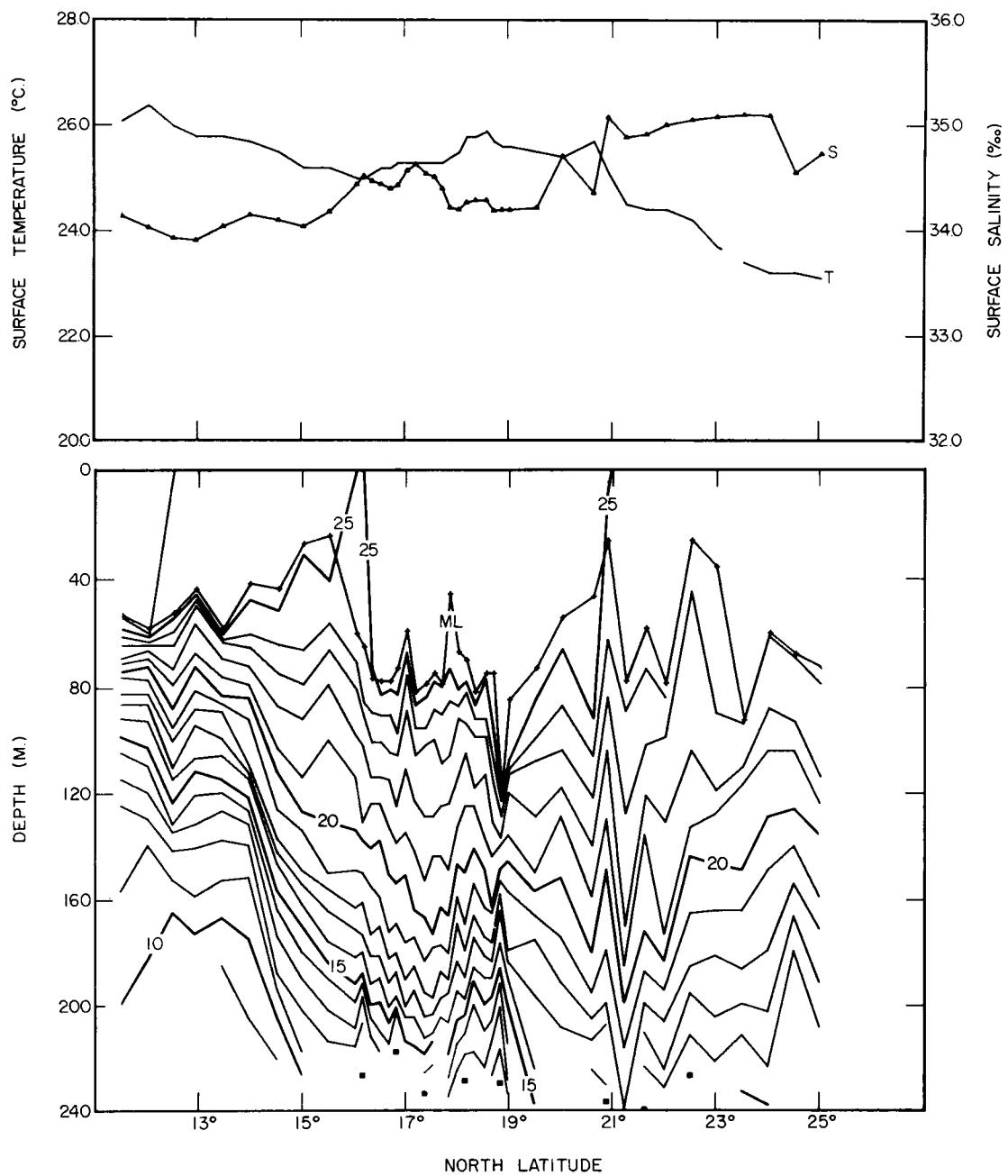


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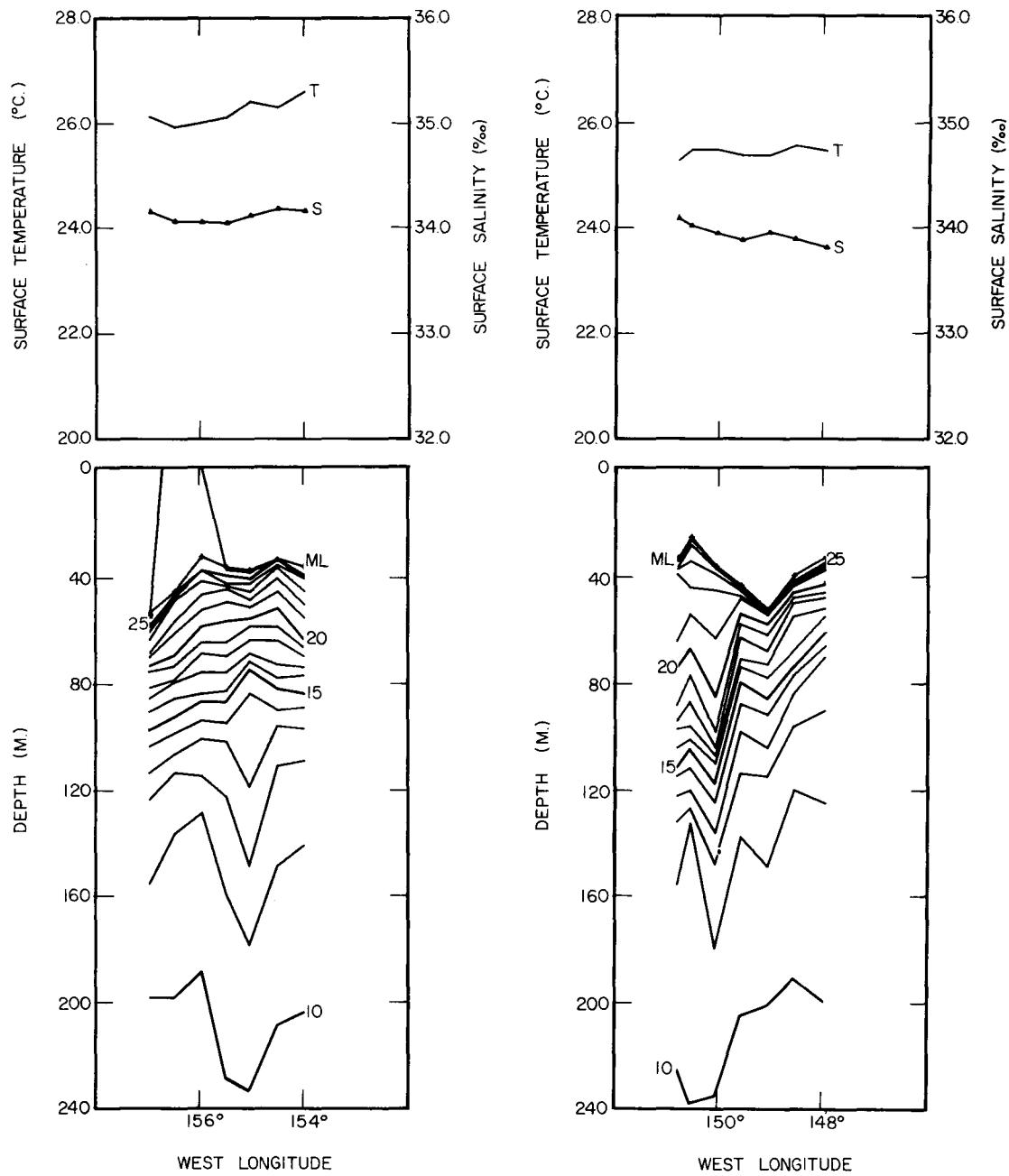


Figure 6.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{^{\circ}/oo}$ ) (upper panel) and zonal BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 11 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

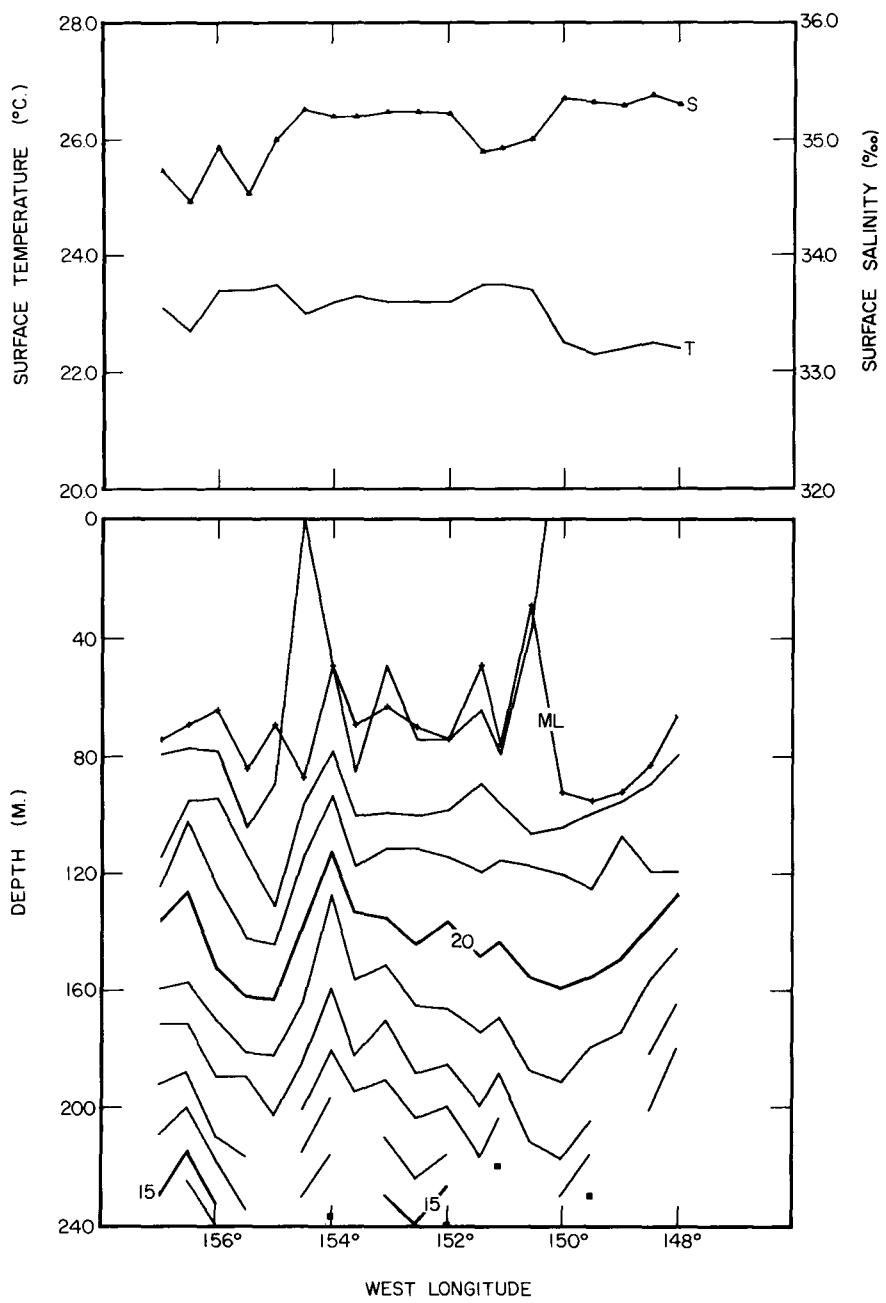


Figure 7.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{\circ}/\text{oo}$ ) (upper panel) and zonal BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 11 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

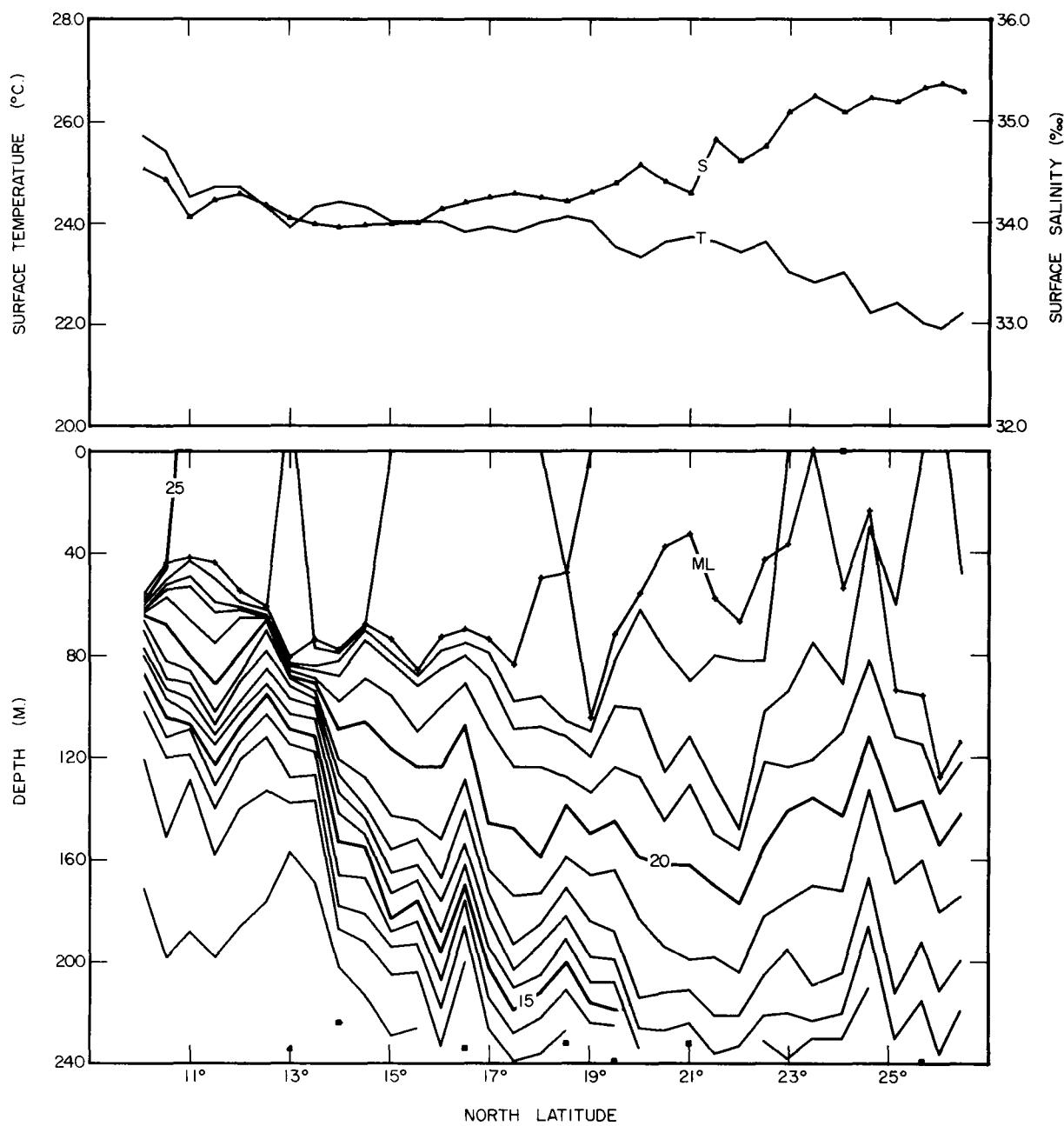


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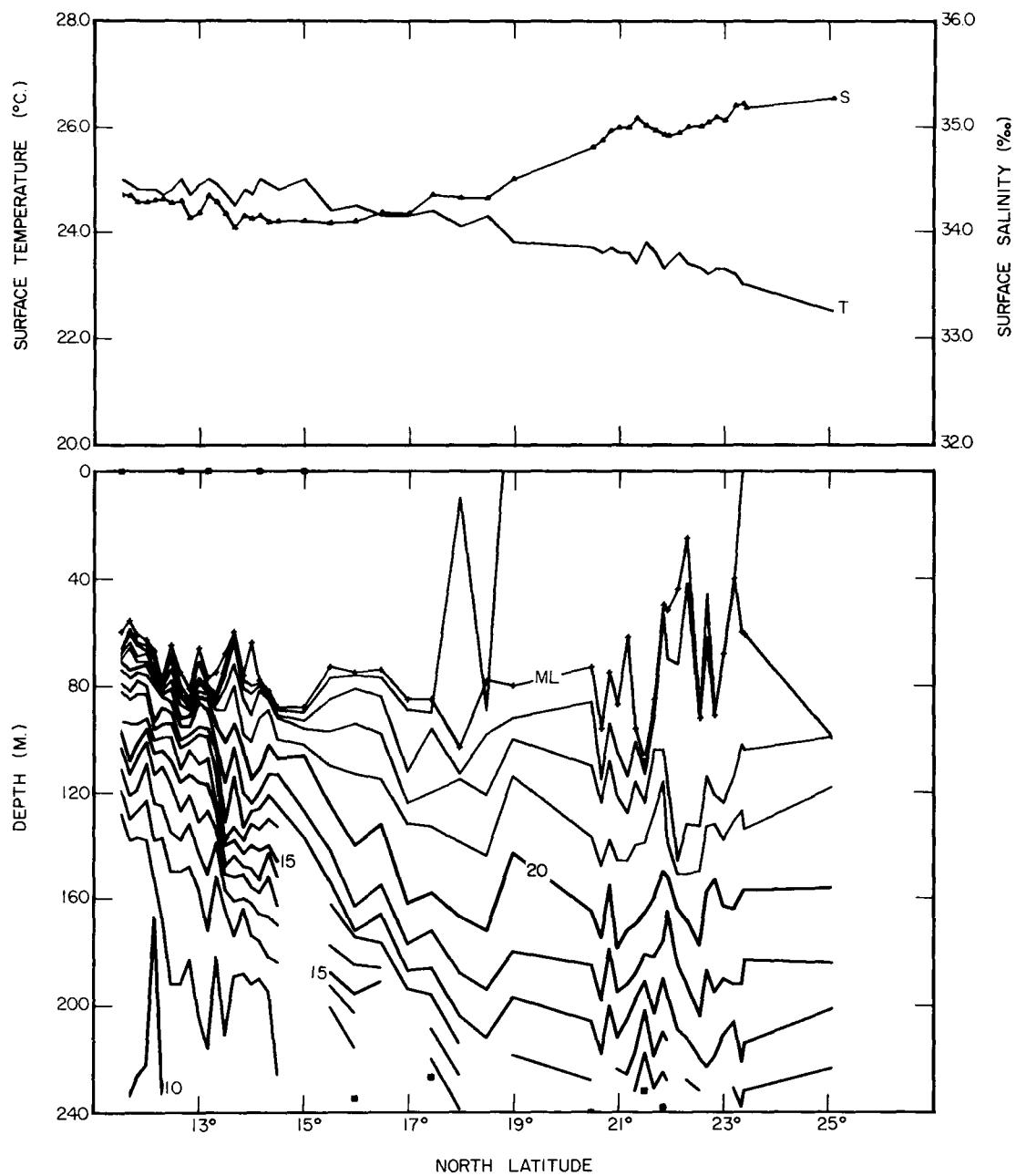


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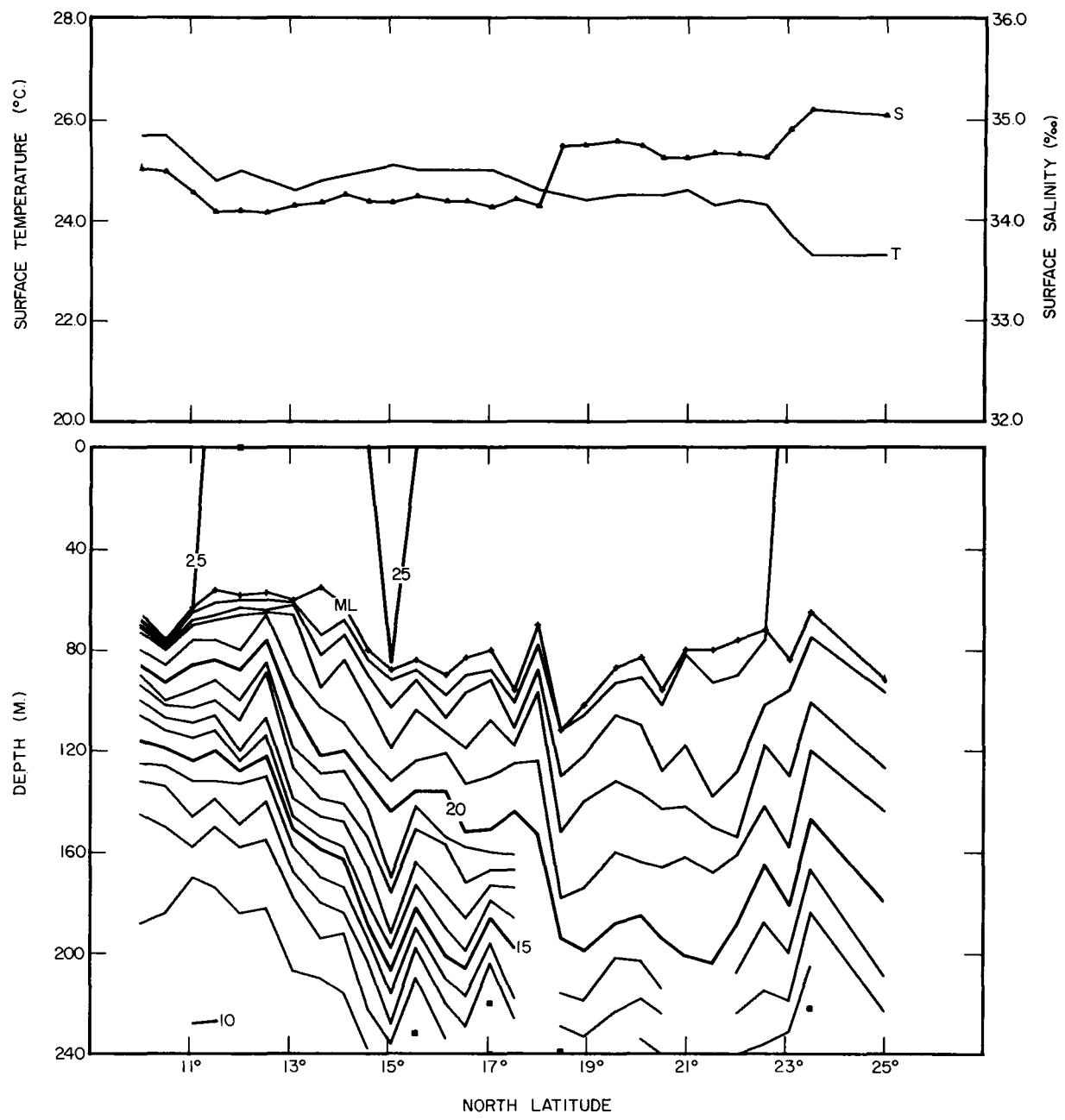


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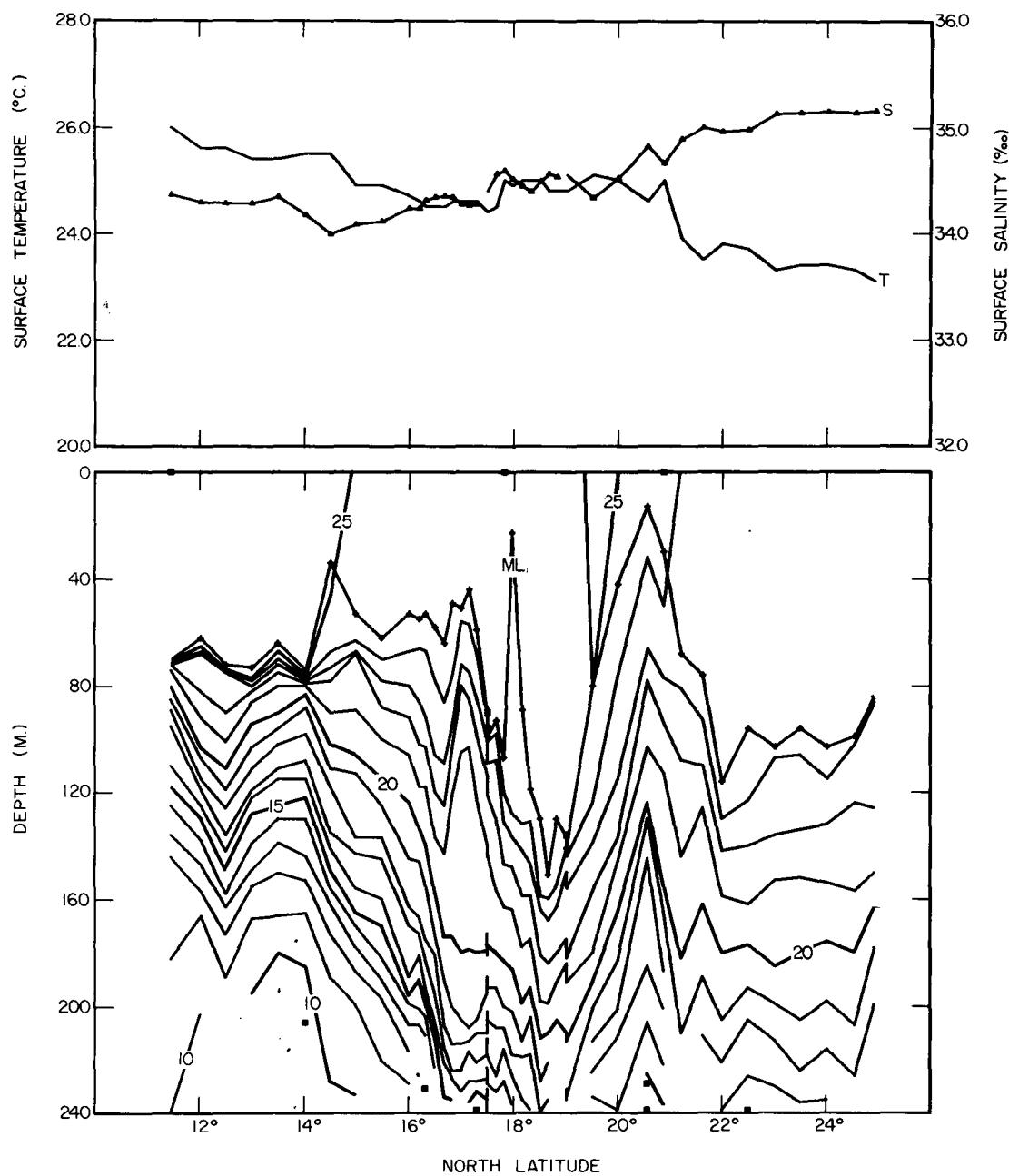


Figure 11.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/oo$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 12 along long.  $157^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

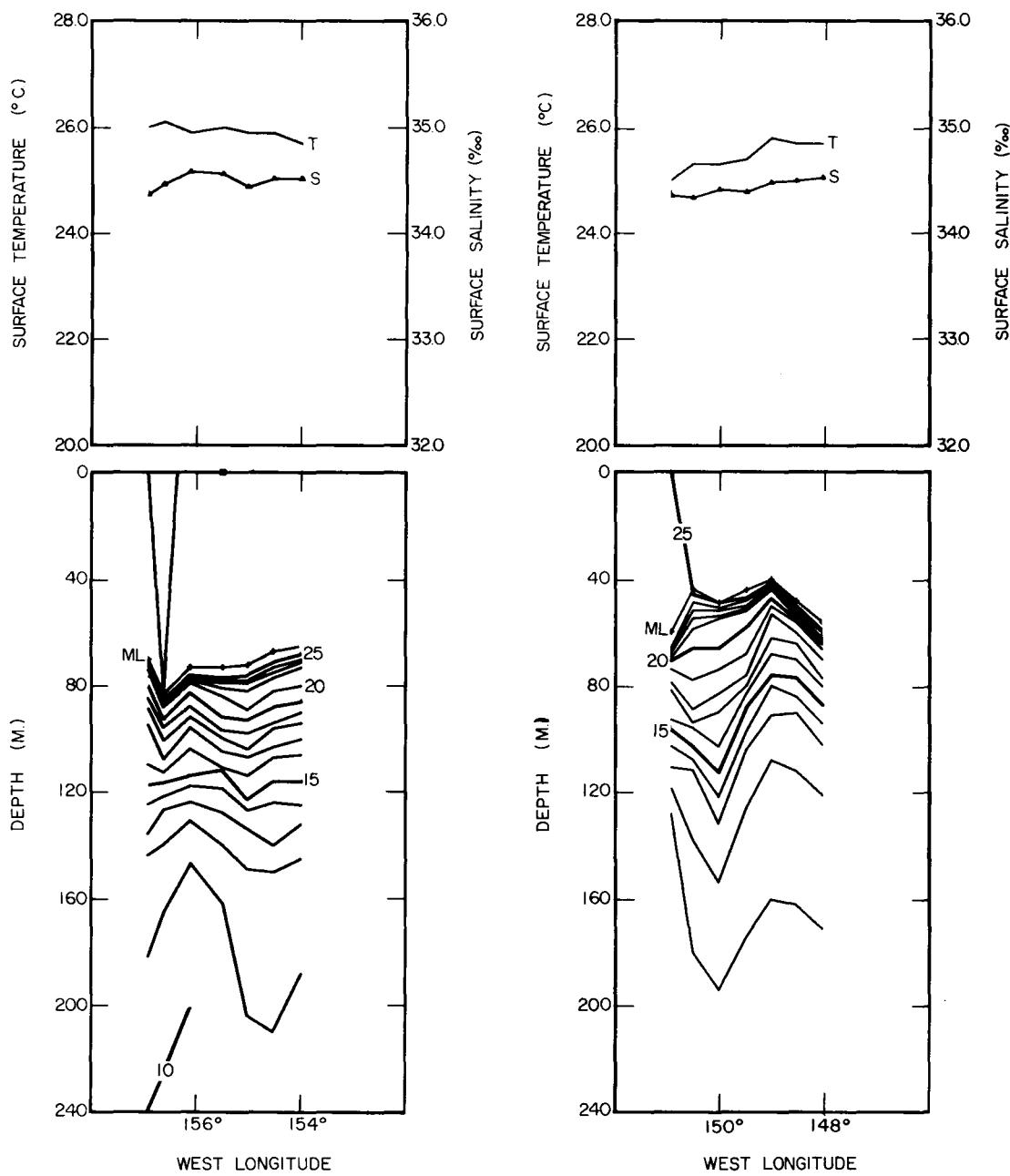


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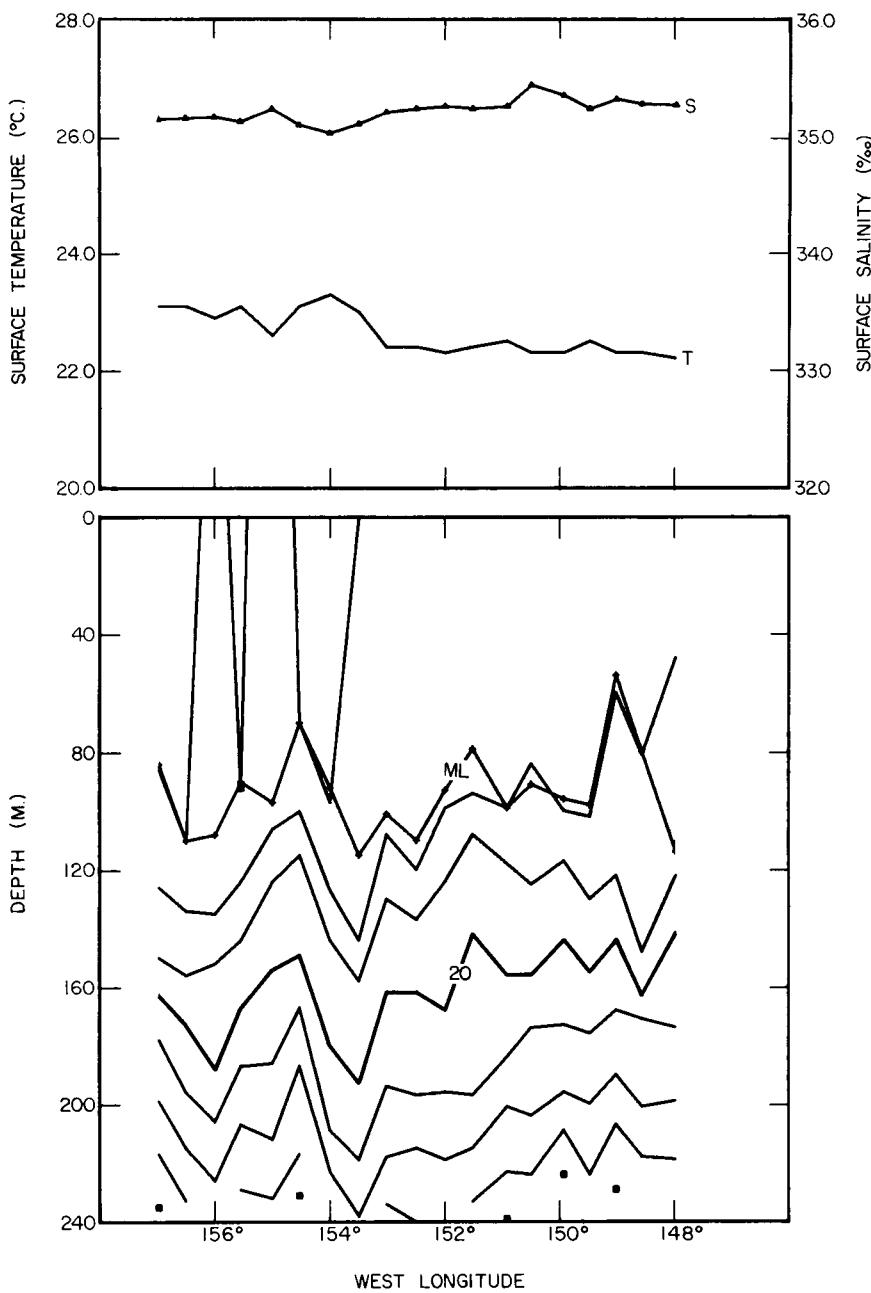


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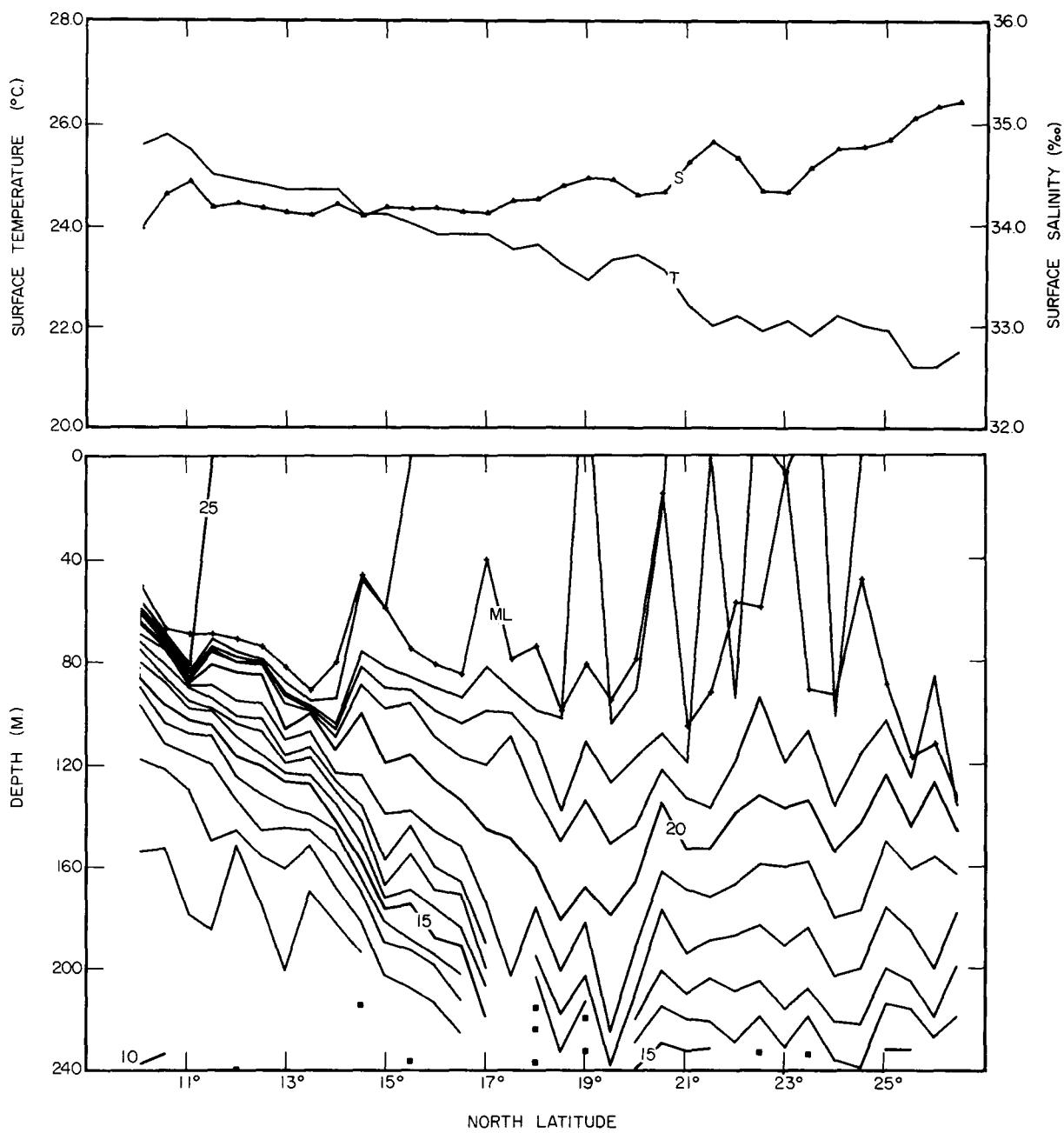


Figure 14.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{\circ}/\text{oo}$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 along long.  $148^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

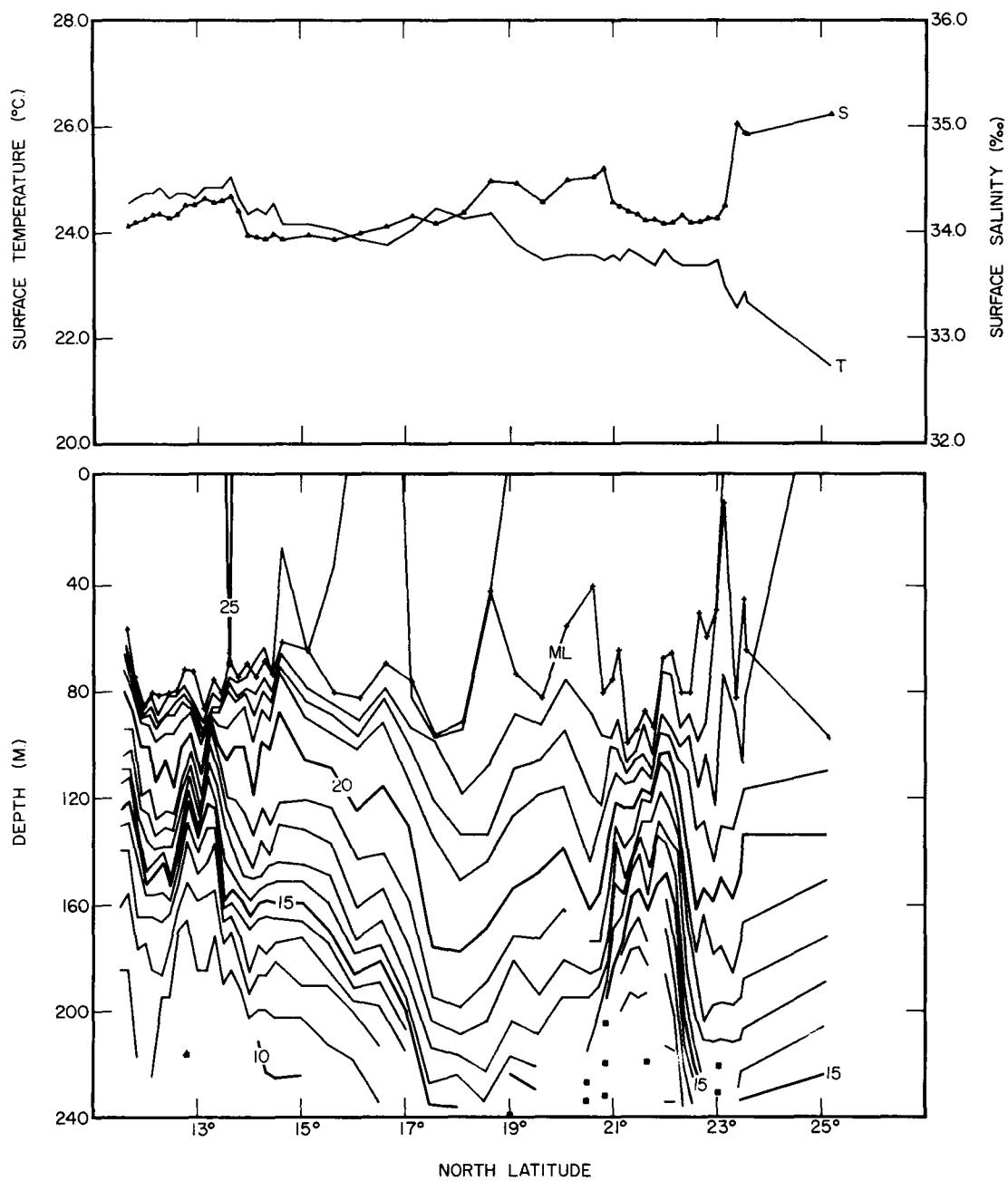


Figure 15.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/oo$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 along long.  $151^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

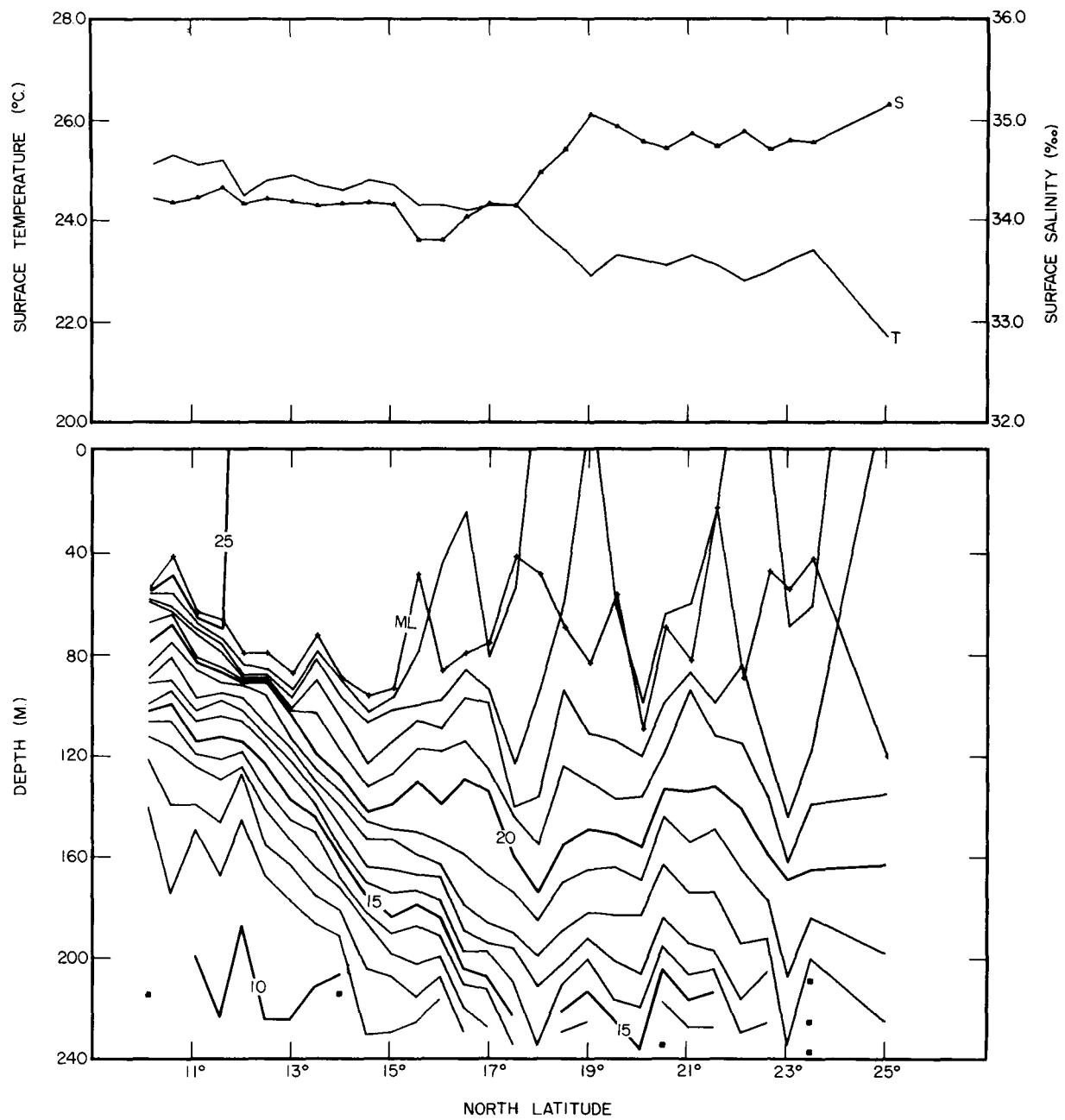


Figure 16.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/\text{oo}$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 along long.  $154^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

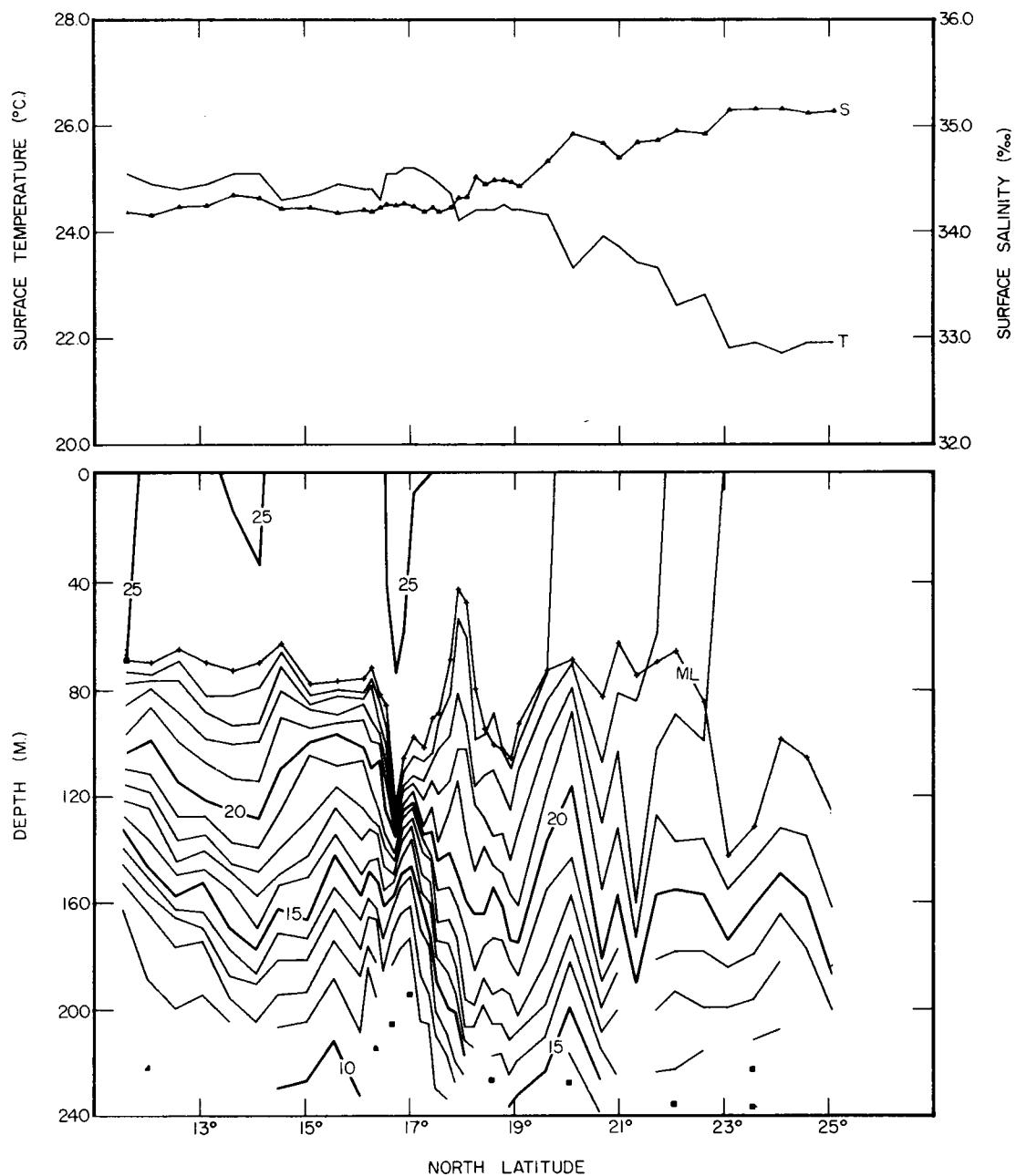


Figure 17.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{0}/oo$ ) (upper panel) and BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 along long.  $157^{\circ}$  W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

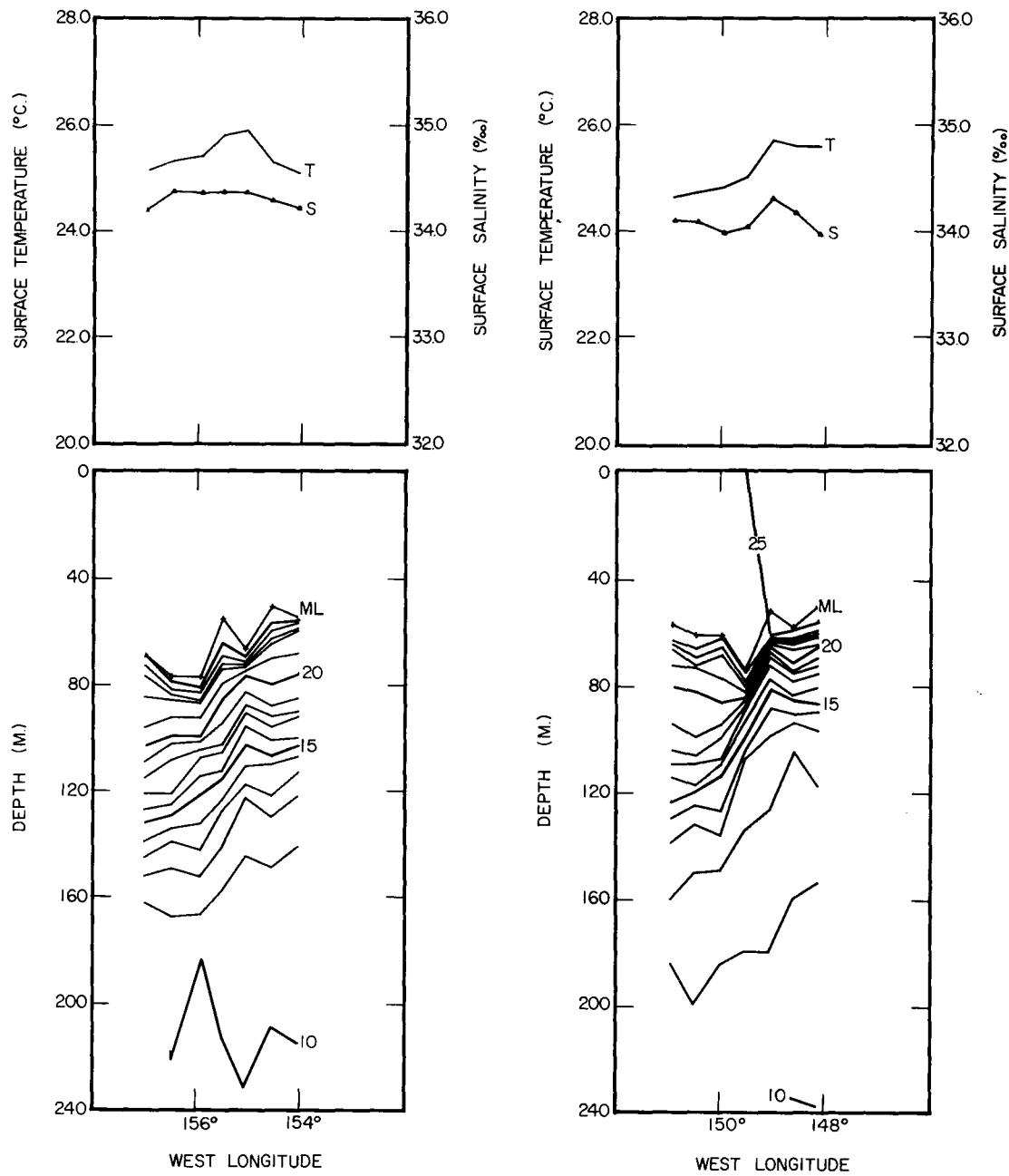


Figure 18.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{\circ}$ /oo) (upper panel) and zonal BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

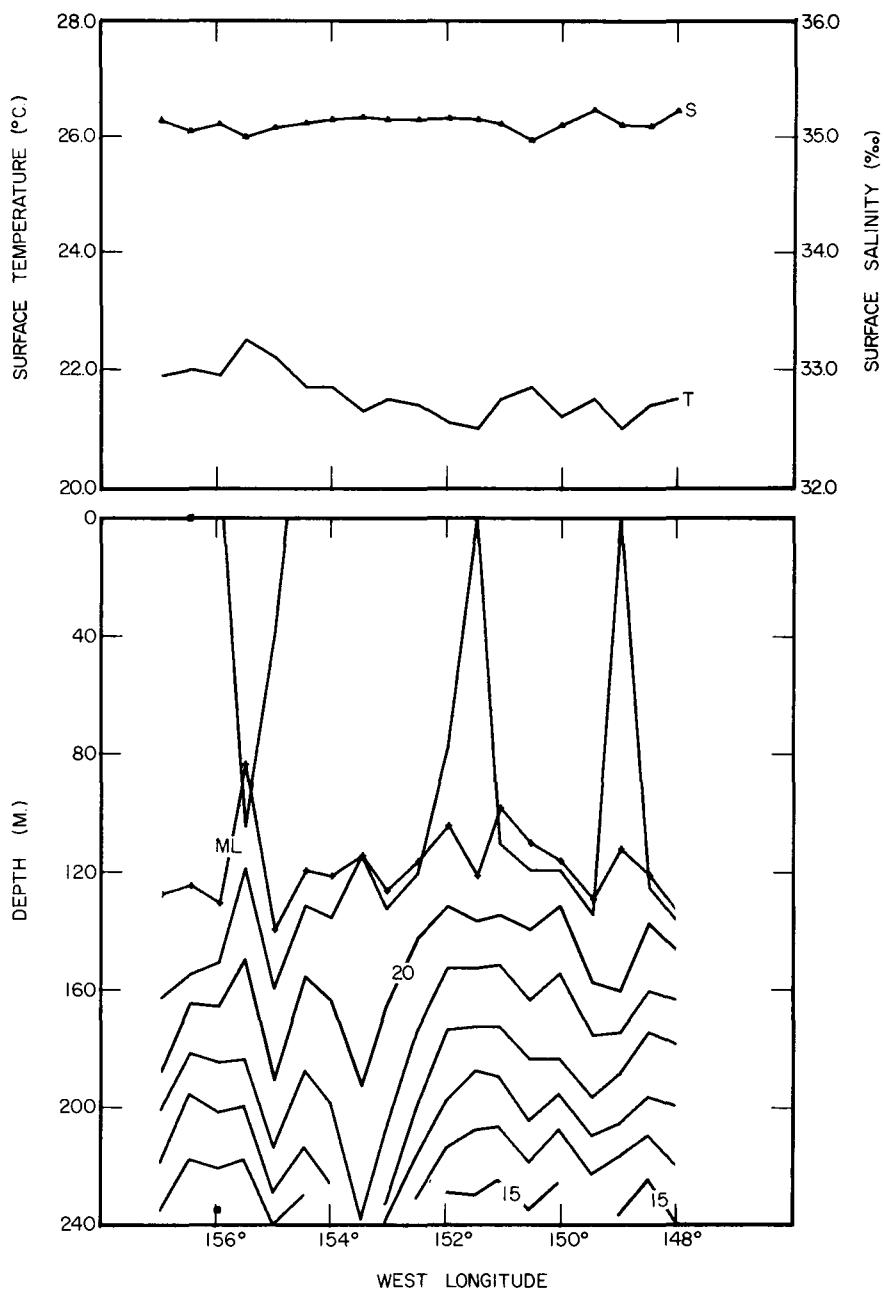


Figure 19.--Surface temperatures ( $^{\circ}$  C.) and salinities ( $^{\circ}/oo$ ) (upper panel) and zonal BT temperature ( $^{\circ}$  C.) section (lower panel) for Townsend Cromwell cruise 13 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

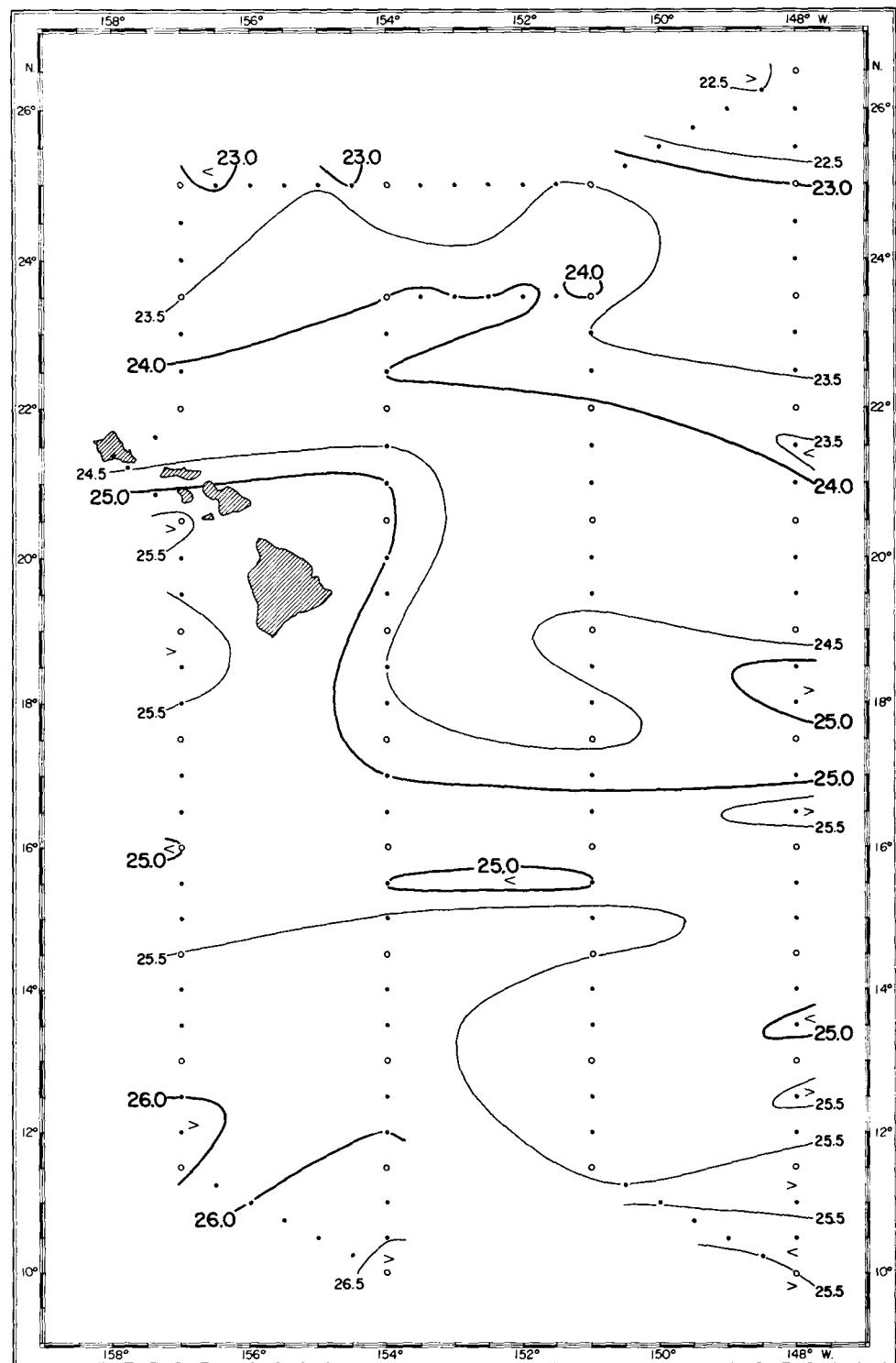


Figure 20.--Surface temperature distribution ( $^{\circ}$  C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 11.

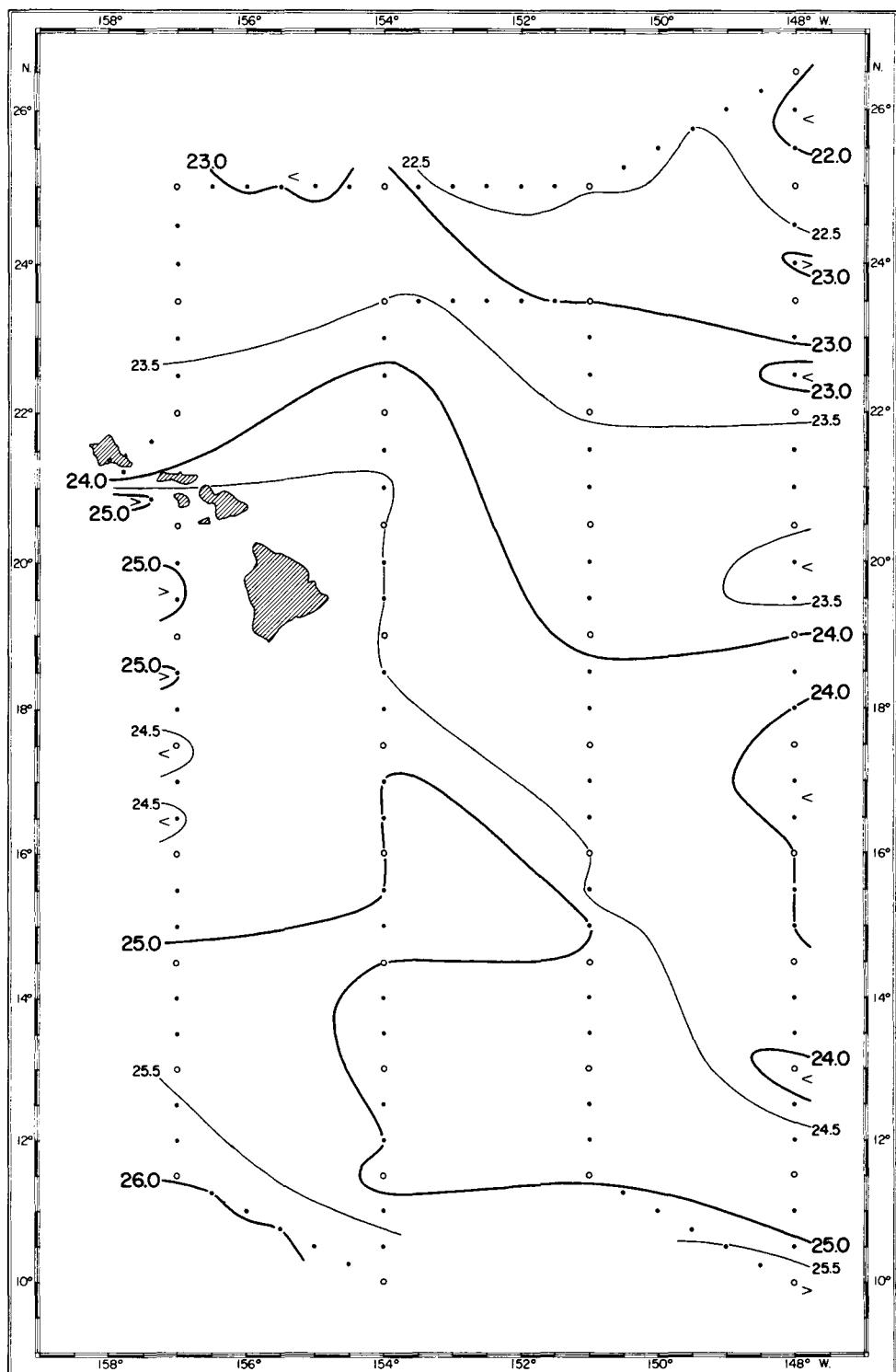


Figure 21.--Surface temperature distribution ( $^{\circ}$  C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 12.

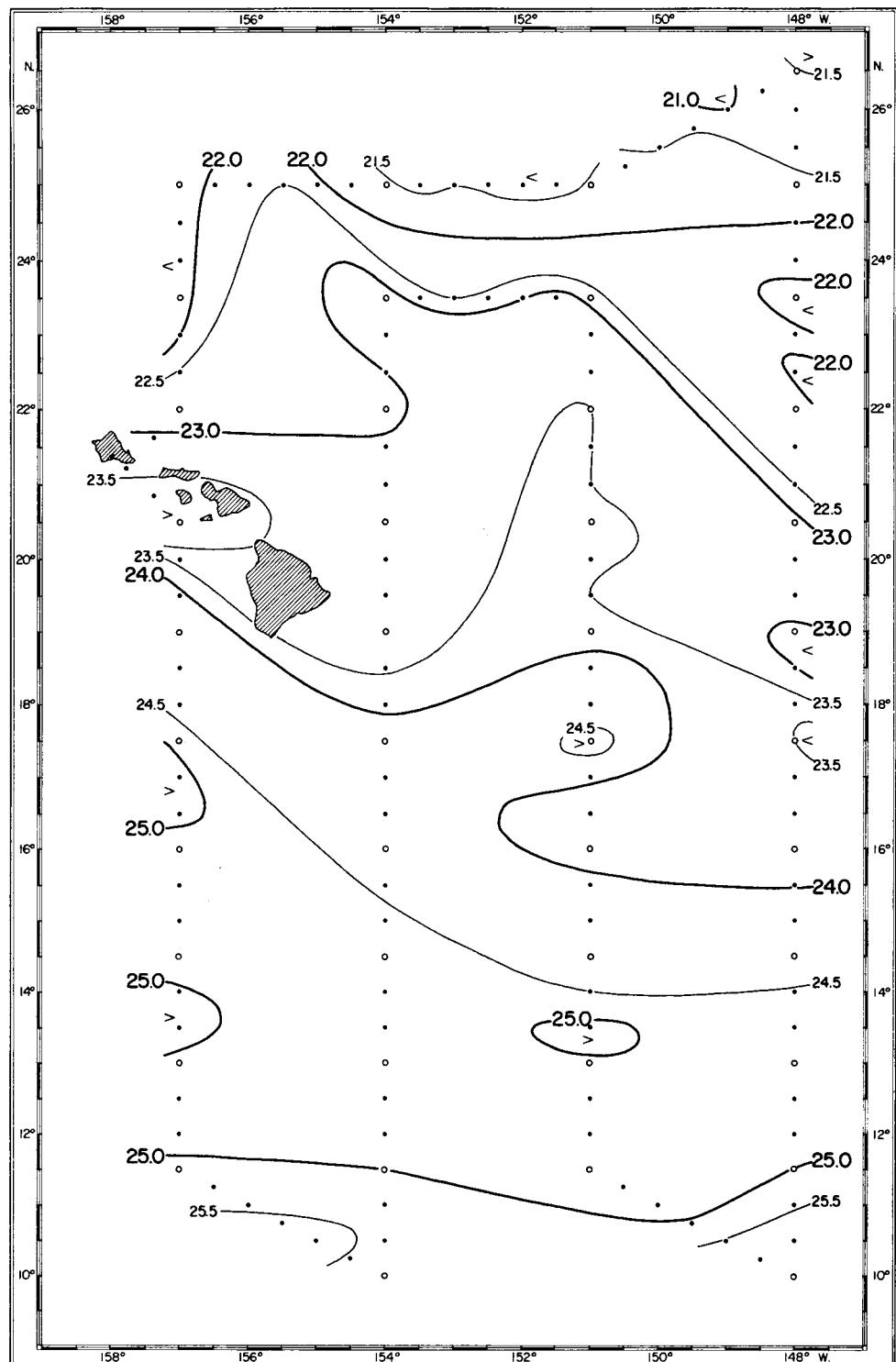


Figure 22.--Surface temperature distribution ( $^{\circ}$  C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 13.

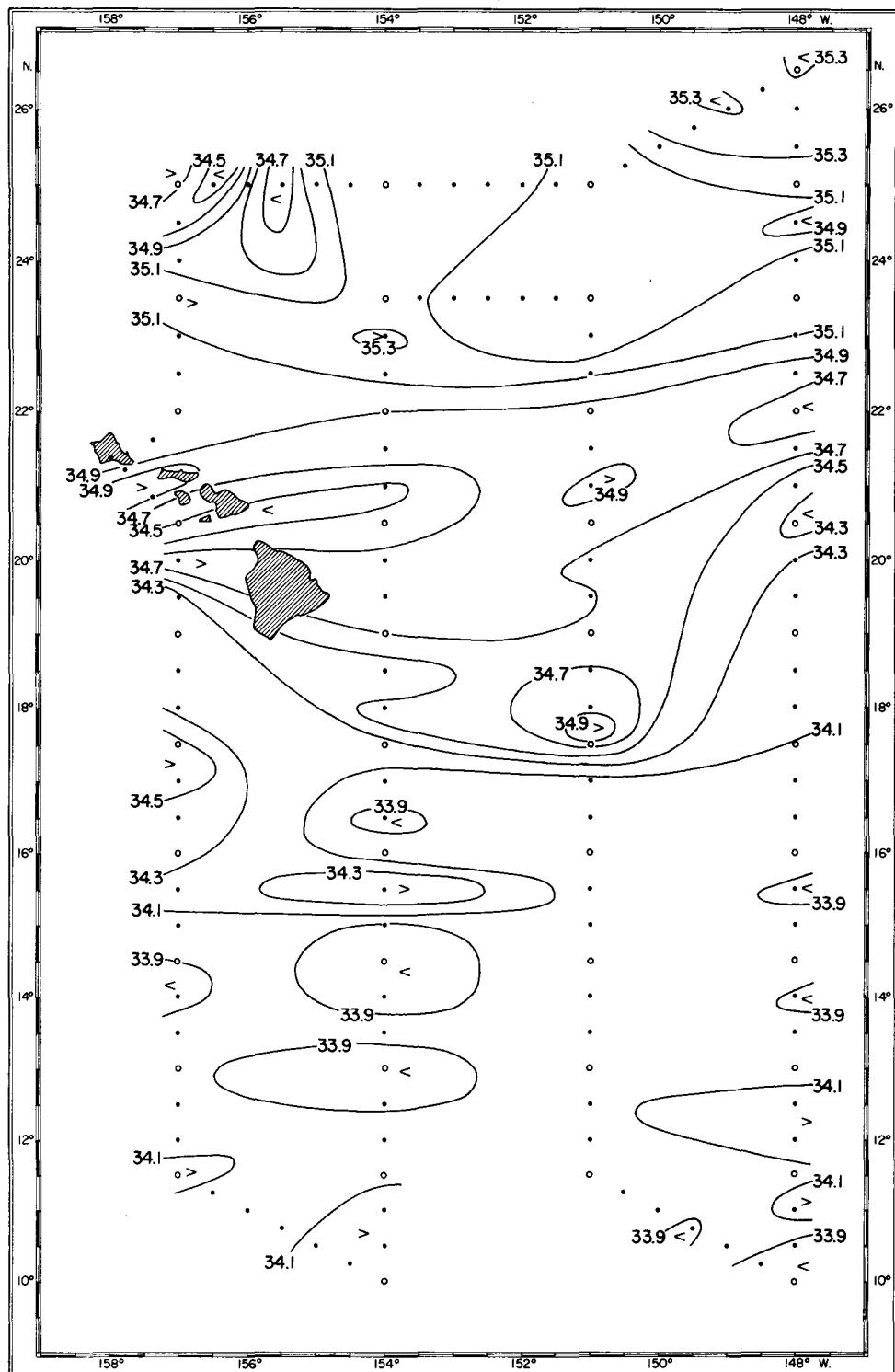


Figure 23.--Surface salinity distribution ( $\text{o/oo}$ ) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 11.

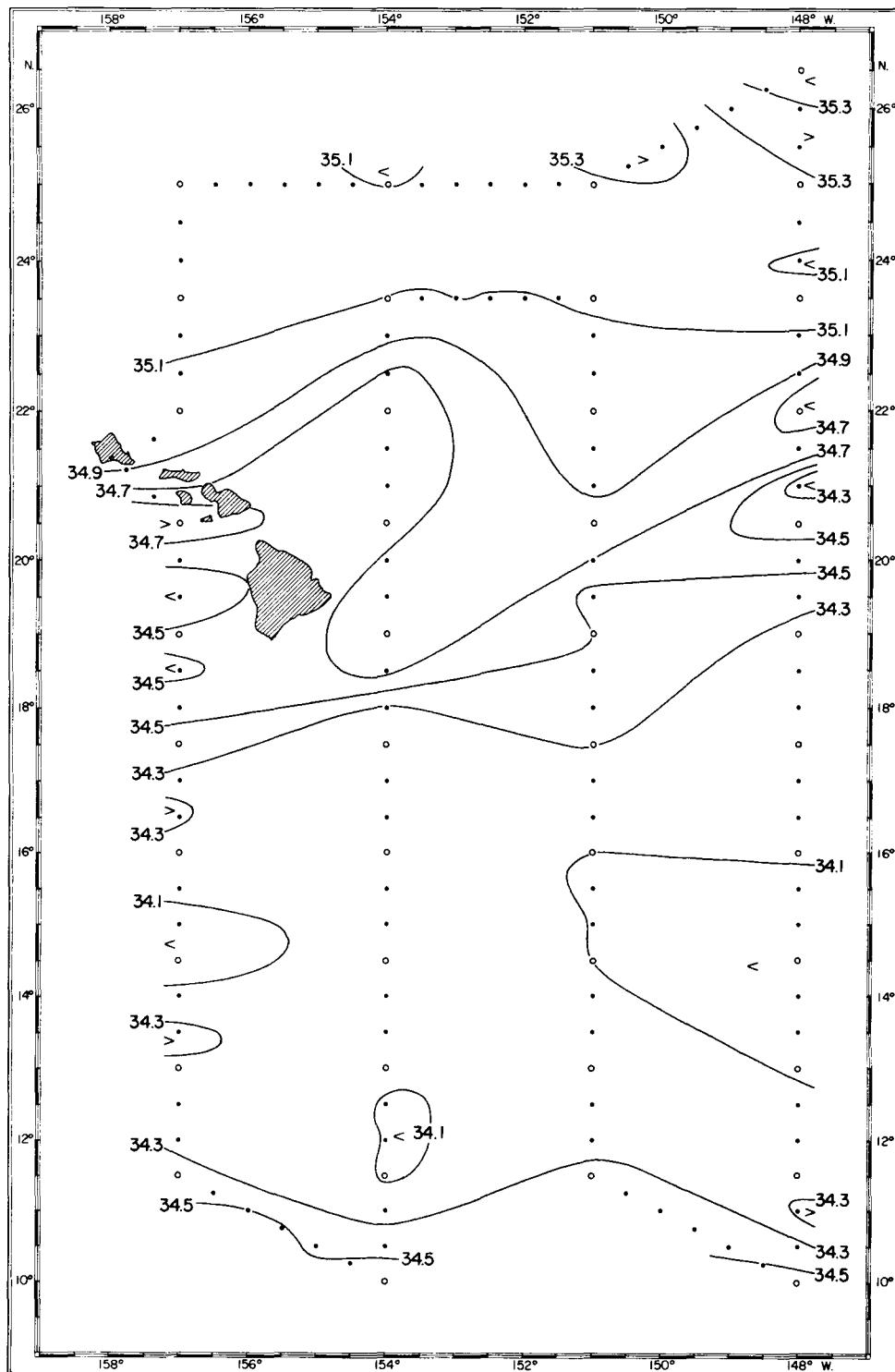


Figure 24.--Surface salinity distribution ( $^{\circ}/oo$ ) from intake salinity samples at each BT cast for Townsend Cromwell cruise 12.

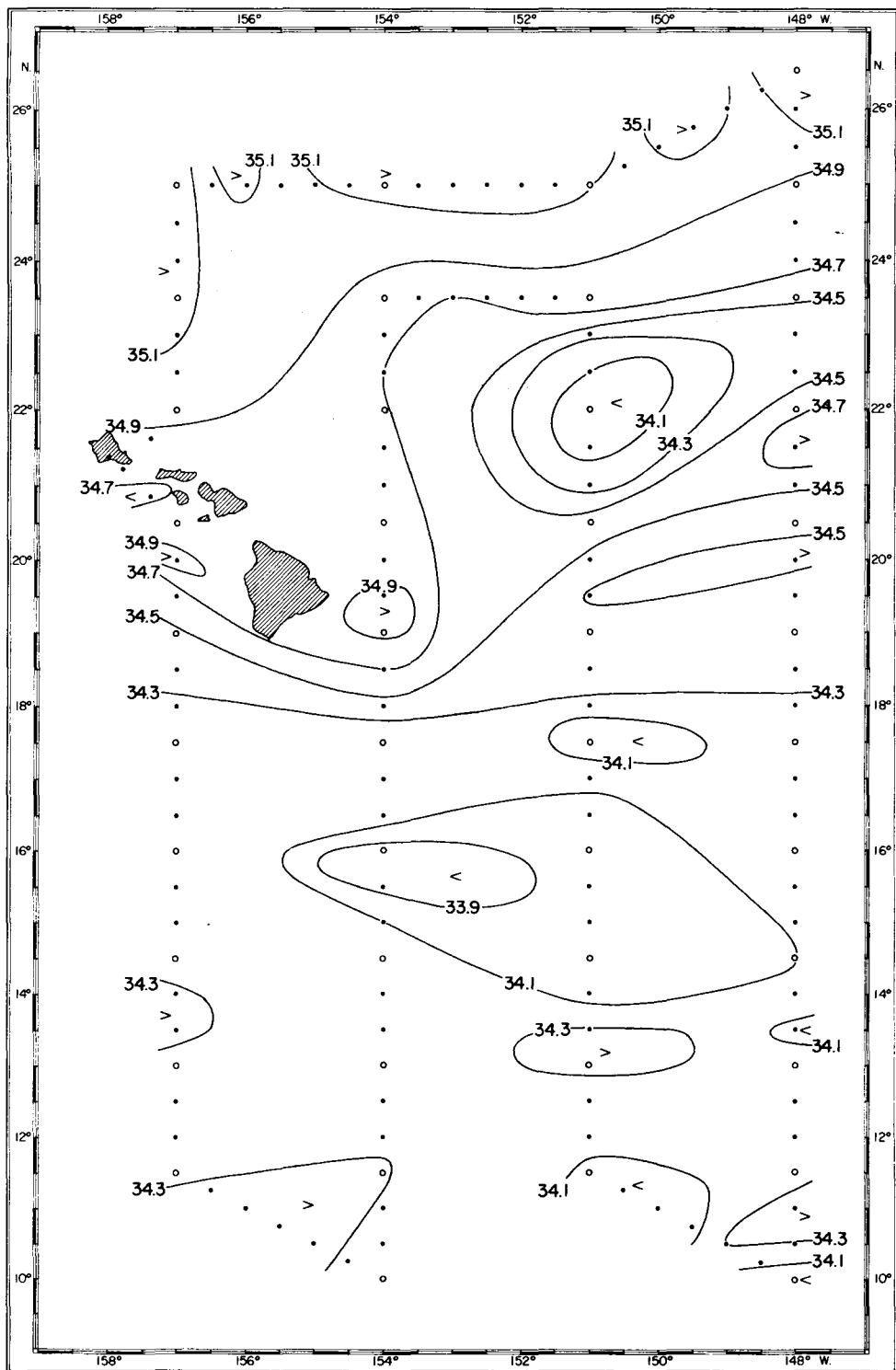


Figure 25.--Surface salinity distribution ( $^{\circ}/oo$ ) from intake salinity samples at each BT cast for Townsend Cromwell cruise 13.

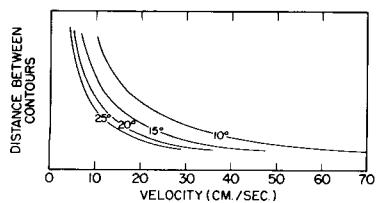
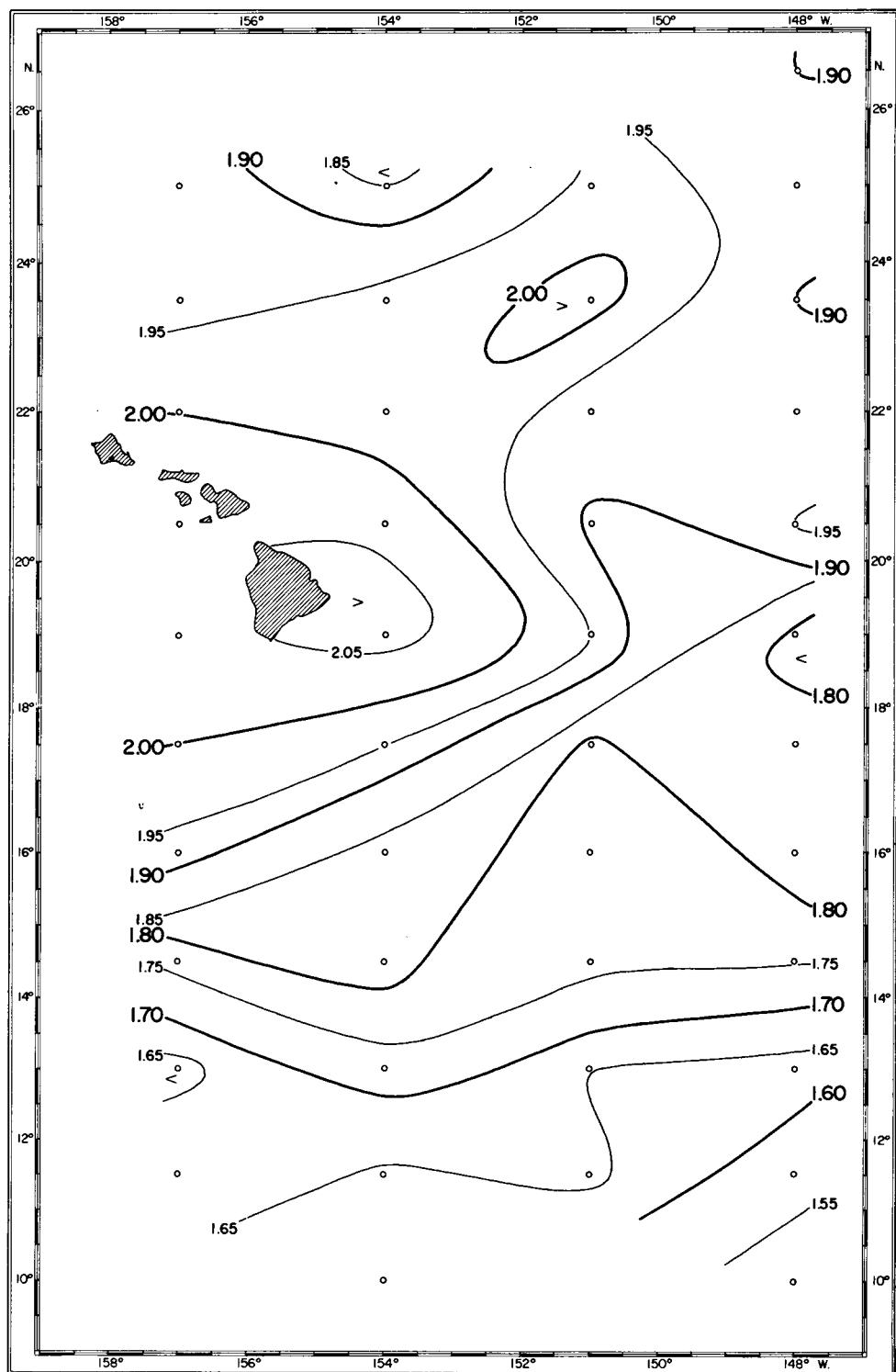


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 11.

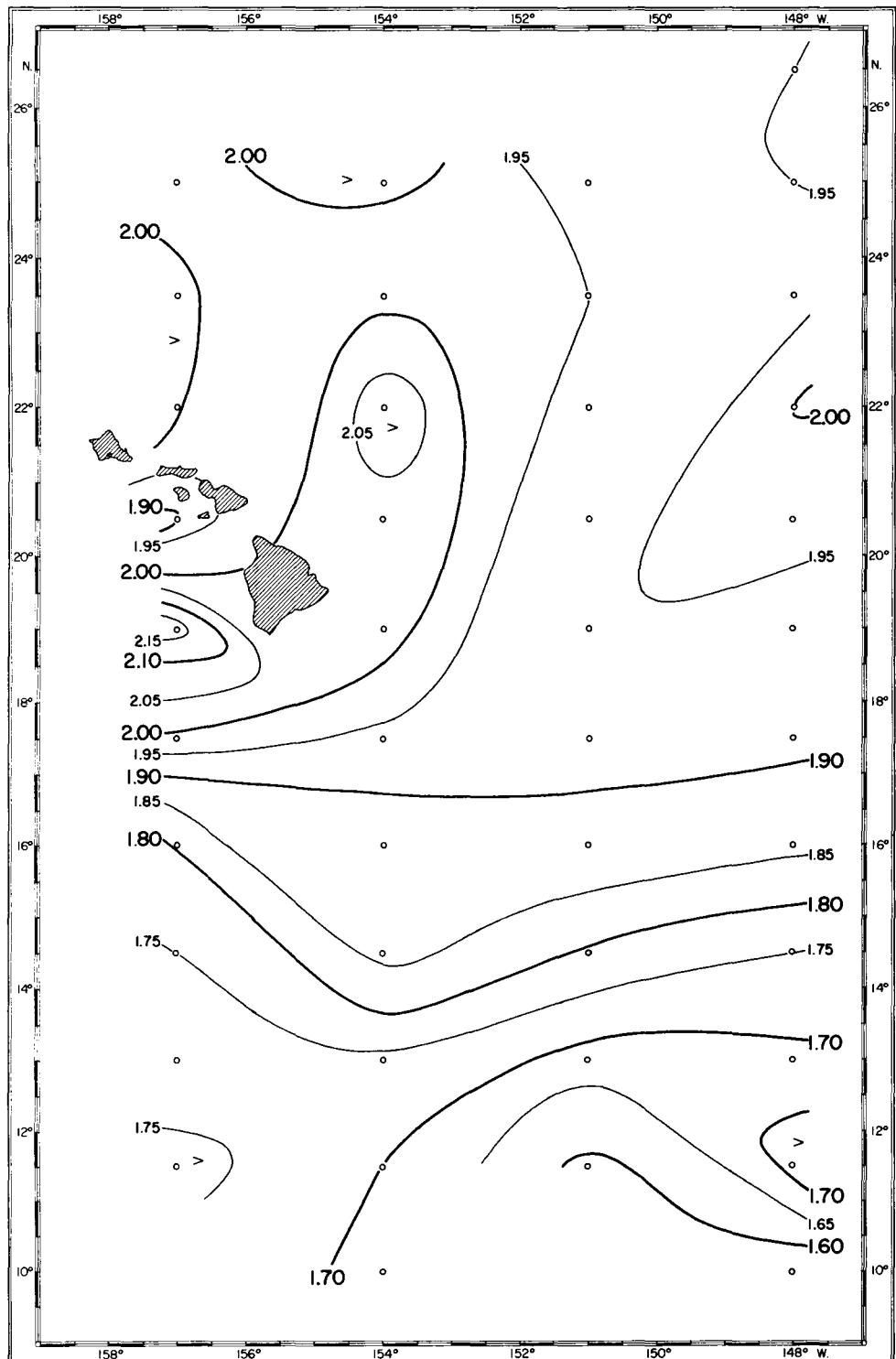
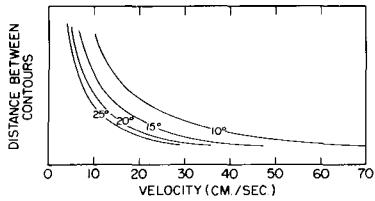


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 12.



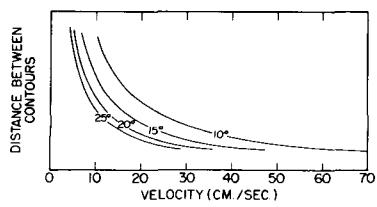
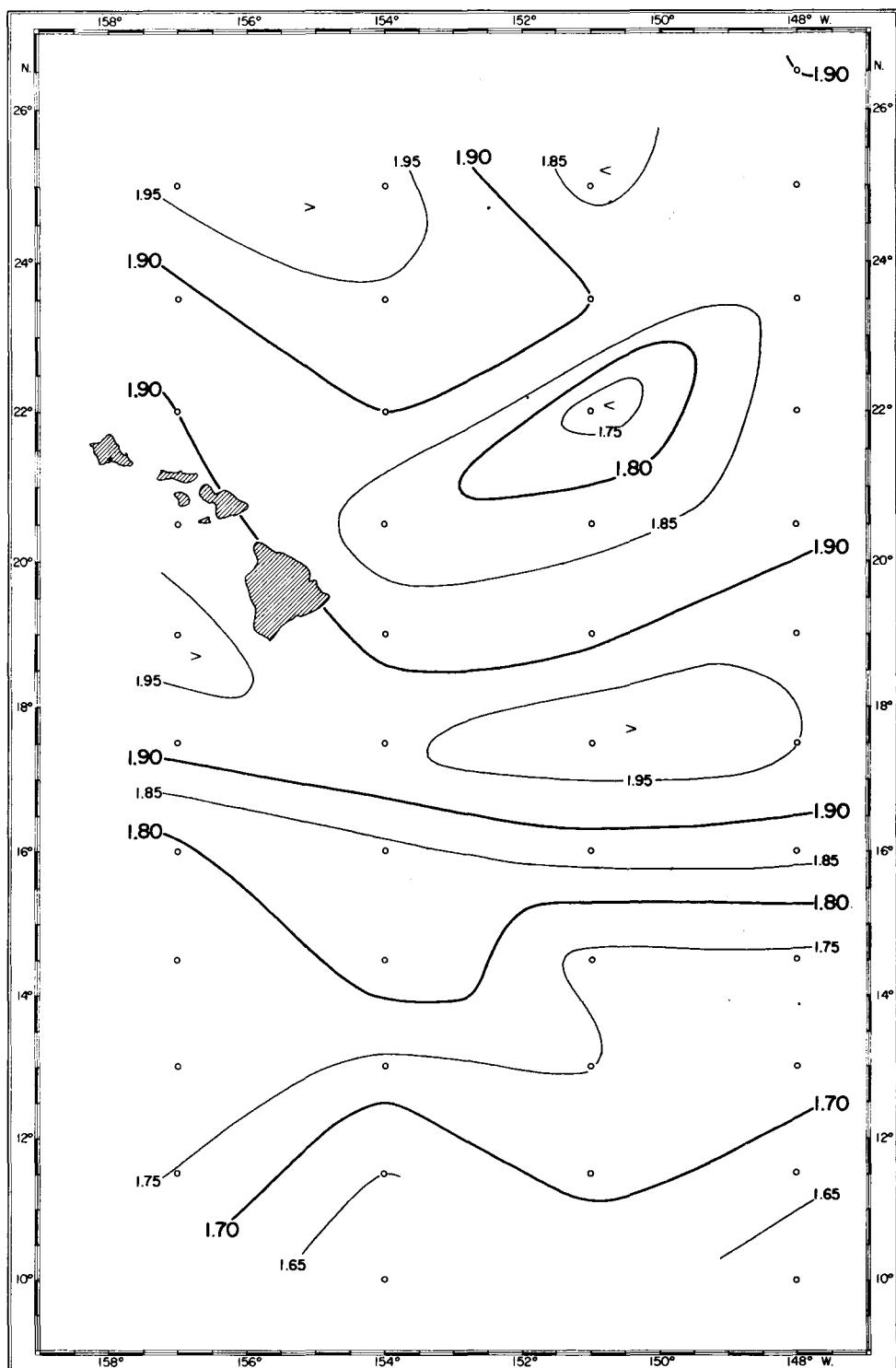


Figure 28.--Dynamic topography (dynamic meters)  
relative to 1,200 m. for Townsend Cromwell  
cruise 13.

## TABLES

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

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

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

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 11

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL		11, STATION		1, 20-36N LAT, 157-13W LONG, DEC.			2, 1964, 0600 G.C.T.								
DRY BULB 25.7		WET BULB 21.9		WIND SPEED 10, DIR. 12			BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	25.67	34.37			22.68	517.8	0.	25.67	34.37	22.68	517.8	0.000			
10.	25.66	34.36			22.68	518.6	10.	25.66	34.36	22.68	518.6	0.052			
30. <sup>A</sup>	25.60	34.52			22.82	506.1	20.	25.64	34.42	22.73	514.3	0.104			
50. <sup>A</sup>	25.48	34.82			23.08	481.8	30.	25.60	34.52	22.82	506.1	0.156			
77.	25.42	34.83			23.11	480.4	50.	25.48	34.82	23.08	481.8	0.255			
102.	24.38	34.82			23.41	451.9	75.	25.44	34.84	23.10	480.4	0.376			
128.	22.58	35.08			24.13	384.0	100.	24.49	34.82	23.38	455.3	0.494			
154.	21.42	35.08			24.46	353.8	150.	21.59	35.09	24.62	357.6	0.699			
180.	19.78	35.04			24.87	315.5	200.	18.18	34.87	25.14	289.8	0.862			
193.	18.84	34.94			25.03	300.0	250.	15.08	34.53	25.61	245.9	0.997			
228.	15.84	34.60			25.50	256.5	300.	12.53	34.29	25.95	213.7	1.113			
255.	14.96	34.52			25.63	244.2	400.	7.98	34.15	26.63	148.9	1.296			
280.	14.02	34.42			25.75	232.7	500.	6.72	34.23	26.87	126.4	1.435			
307.	11.97	34.24			26.02	206.7	600.	5.80	34.30	27.05	109.8	1.554			
408.	7.81	34.16			26.66	145.5	700.	5.18	34.38	27.18	97.4	1.659			
511.	6.68	34.24			26.89	125.1	800.	4.81	34.45	27.28	88.5	1.753			
612.	5.69	34.31			27.07	108.0	1000.	4.18	34.51	27.40	78.6	1.922			
814.	4.77	34.46			27.30	87.5									
1017.	4.14	34.52			27.41	77.3									
CROMWELL		11, STATION		2, 18-59N LAT, 156-59W LONG, DEC.			2, 1964, 1600 G.C.T.								
DRY BULB 24.8		WET BULB 21.1		WIND SPEED 15, DIR. 15			BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	25.58	34.17			22.56	529.6	0.	25.58	34.17	22.56	529.5	0.000			
11.	25.59	34.18			22.56	529.5	10.	25.59	34.18	22.56	529.5	0.053			
30. <sup>A</sup>	25.56	34.18			22.57	529.4	20.	25.58	34.18	22.57	529.5	0.107			
50. <sup>A</sup>	25.52	34.18			22.59	529.0	30.	25.56	34.18	22.57	529.4	0.160			
75. <sup>A</sup>	25.50	34.18			22.59	529.4	50.	25.52	34.18	22.59	529.0	0.267			
100. <sup>A</sup>	25.38	34.21			22.65	524.7	75.	25.50	34.18	22.59	529.4	0.400			
150. <sup>A</sup>	19.80	34.57			24.51	348.9	100.	25.38	34.21	22.65	524.7	0.533			
192.	16.42	34.49			25.28	276.2	150.	19.80	34.57	24.51	348.9	0.753			
218.	14.11	34.36			25.69	237.2	200.	15.73	34.45	25.41	263.9	0.907			
247.	11.28	34.22			26.14	194.3	250.	11.12	34.22	26.16	191.7	1.022			
275.	10.46	34.29			26.34	175.5	300.	10.45	34.47	26.48	162.6	1.111			
297.	10.48	34.46			26.47	163.8	400.	8.91	34.52	26.77	135.9	1.262			
391.	9.05	34.52			26.75	137.7	500.	7.48	34.43	26.92	122.2	1.392			
490.	7.60	34.44			26.91	123.1	600.	6.42	34.36	27.02	113.6	1.511			
611.	6.32	34.36			27.03	112.7	700.	5.53	34.39	27.15	100.9	1.620			
787.	4.93	34.45			27.27	90.0	800.	4.88	34.45	27.28	89.1	1.716			
986.	4.37	34.51			27.38	80.6	1000.	4.33	34.51	27.39	79.9	1.887			
1180.	3.79	34.55			27.47	72.2	1200.	3.76	34.56	27.48	71.6	2.040			
1473.	3.09	34.59			27.57	62.9									
CROMWELL		11, STATION		3, 17-32N LAT, 156-56W LONG, DEC.			3, 1964, 0100 G.C.T.								
DRY BULB 25.2		WET BULB 21.2		WIND SPEED 22, DIR. 07			BAR. 13		WEATHER 02		VIS.		CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	25.28	34.44			22.85	501.3	0.	25.28	34.44	22.85	501.3	0.000			
11.	25.25	34.44			22.86	500.9	10.	25.25	34.44	22.86	500.9	0.050			
30. <sup>A</sup>	25.26	34.44			22.86	501.9	20.	25.25	34.44	22.86	501.2	0.101			
50. <sup>A</sup>	25.26	34.44			22.86	502.7	30.	25.26	34.44	22.86	501.9	0.151			
75.	25.26	34.67			23.03	487.1	50.	25.26	34.44	22.86	502.7	0.253			
101.	23.11	34.81			23.78	416.9	75.	25.26	34.67	23.03	487.1	0.377			
125.	22.42	35.08			24.18	379.5	100.	23.20	34.80	23.75	419.8	0.492			
148.	20.95	35.12			24.62	338.4	150.	20.85	35.12	24.64	336.2	0.682			
175.	19.60	35.02			24.90	312.3	200.	17.44	34.79	25.27	277.9	0.837			
189.	18.83	34.97			25.06	297.4	250.	12.28	34.26	25.98	209.6	0.960			
224.	14.17	34.37			25.68	237.9	300.	9.96	34.24	26.39	171.3	1.056			
247.	12.45	34.26			25.95	212.8	400.	8.52	34.37	26.72	140.6	1.213			
275.	11.09	34.29			26.23	186.4	500.	7.30	34.39	26.92	122.6	1.346			
300.	9.96	34.24			26.39	171.3	600.	6.62	34.45	27.06	110.0	1.463			
400.	8.52	34.37			26.72	140.6	700.	5.93	34.48	27.17	99.5	1.569			
500.	7.30	34.39			26.92	122.6	800.	5.31	34.50	27.26	91.2	1.666			
599.	6.63	34.45			27.06	110.1	1000.	4.55	34.53	27.38	81.4	1.840			
796.	5.33	34.50			27.26	91.5	1200.	3.87	34.56	27.47	72.9	1.997			
993.	4.58	34.53			27.37	81.8									
1166.	3.94	34.55			27.46	73.9									
1383.	3.40	34.58			27.53	66.8									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.23

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA									
CROMWELL DRY BULB 24.5	11, STATION WET BULB 21.8	4, 16- 2N LAT, 157- OW LONG, DEC. WIND SPEED 17, DIR. 07	3, 1964, 1100 G.C.T. BAR. 15 WEATHER 02	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.21	34.45		22.88	498.5	0.			22.88	498.5	0.	25.21	34.45	22.88	498.5	0.000	
11.	25.20	34.44		22.88	499.4	10.			22.88	499.4	10.	25.20	34.44	22.88	499.3	0.050	
30. <sup>A</sup>	25.20	34.44		22.88	500.1	20.			22.88	500.1	20.	25.20	34.44	22.88	499.8	0.101	
50. <sup>A</sup>	25.20	34.44		22.88	500.9	30.			22.88	500.9	30.	25.20	34.44	22.88	500.1	0.151	
76.	24.73	34.76		23.26	465.3	50.			23.26	465.3	50.	25.20	34.44	22.88	500.9	0.252	
101.	22.69	34.97		24.02	393.9	75.			24.77	34.75	75.	24.77	34.96	23.24	467.4	0.374	
127.	21.27	34.95		24.40	358.3	100.			22.78	34.96	100.	20.08	34.94	24.72	329.0	0.483	
152.	19.96	34.94		24.75	326.3	150.			20.08	34.94	150.	20.08	34.94	24.72	329.0	0.665	
175.	17.79	34.76		25.16	287.3	200.			14.97	34.44	200.	14.97	34.44	25.57	248.4	0.811	
192.	15.88	34.55		25.45	259.9	250.			11.39	34.38	250.	11.39	34.38	26.24	184.6	0.920	
226.	12.52	34.24		25.92	215.0	300.			10.80	34.61	300.	10.80	34.61	26.53	158.1	1.006	
250.	11.39	34.38		26.24	184.6	400.			8.27	34.42	400.	8.27	34.42	26.80	133.0	1.153	
277.	10.83	34.55		26.48	162.8	500.			7.31	34.46	500.	7.31	34.46	26.97	117.5	1.280	
306.	10.80	34.62		26.54	157.8	600.			6.44	34.46	600.	6.44	34.46	27.09	106.7	1.393	
407.	8.05	34.40		26.82	131.3	700.			5.81	34.48	700.	5.81	34.48	27.19	97.9	1.496	
508.	7.28	34.47		26.98	116.5	800.			5.36	34.52	800.	5.36	34.52	27.27	90.7	1.592	
608.	6.37	34.46		27.10	105.9	1000.			4.55	34.54	1000.	4.55	34.54	27.38	80.9	1.765	
810.	5.32	34.52		27.28	90.0	1200.			3.83	34.56	1200.	3.83	34.56	27.47	72.2	1.920	
1015.	4.50	34.54		27.39	80.3	1500.			3.01	34.61	1500.	3.01	34.61	27.59	60.8	2.123	
1215.	3.78	34.56		27.48	71.6												
1516.	2.97	34.61		27.60	60.2												
CROMWELL DRY BULB 24.9	11, STATION WET BULB 21.9	5, 14-31N LAT, 157- IW LONG, DEC. WIND SPEED 18, DIR. 07	3, 1964, 2000 G.C.T. BAR. 12 WEATHER 03	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.62	34.08		22.48	537.2	0.			25.62	34.08	0.	22.48	537.2	0.000			
9.	25.62	34.09		22.49	536.8	10.			25.62	34.09	10.	22.49	536.8	0.054			
20. <sup>A</sup>	25.62	34.09		22.49	537.3	20.			25.62	34.09	20.	22.49	537.3	0.108			
30. <sup>A</sup>	25.62	34.09		22.49	537.6	30.			25.62	34.09	30.	22.49	537.6	0.162			
50.	25.35	34.49		22.87	501.7	50.			25.35	34.49	50.	22.87	501.7	0.267			
75.	23.26	34.96		23.85	409.3	75.			23.26	34.96	75.	23.85	409.3	0.382			
100.	21.41	35.04		24.43	354.5	100.			21.41	35.04	100.	21.41	35.04	24.43	354.5	0.478	
125.	19.55	34.95		24.86	314.3	150.			16.02	34.50	150.	16.02	34.50	25.38	265.4	0.634	
151.	15.87	34.48		25.4C	263.5	200.			11.62	34.32	200.	11.62	34.32	26.15	191.8	0.749	
175.	13.51	34.33		25.79	226.2	250.			9.24	34.25	250.	9.24	34.25	26.51	158.0	0.838	
190.	12.45	34.35		26.02	204.8	300.			8.27	34.30	300.	8.27	34.30	26.70	140.1	0.913	
224.	9.92	34.24		26.39	169.0	400.			8.10	34.54	400.	8.10	34.54	26.92	121.7	1.045	
251.	9.23	34.25		26.51	157.7	500.			7.11	34.52	500.	7.11	34.52	27.05	110.2	1.162	
276.	8.76	34.29		26.62	147.9	600.			6.30	34.51	600.	6.30	34.51	27.15	101.2	1.269	
302.	8.23	34.30		26.71	139.6	700.			5.61	34.52	700.	5.61	34.52	27.24	92.8	1.367	
401.	8.10	34.54		26.92	121.6	800.			5.03	34.53	800.	5.03	34.53	27.32	85.4	1.457	
502.	7.09	34.52		27.05	110.0	1000.			4.21	34.56	1000.	4.21	34.56	27.44	75.0	1.619	
603.	6.28	34.51		27.15	100.9	1200.			3.57	34.58	1200.	3.57	34.58	27.52	67.5	1.763	
803.	5.01	34.53		27.32	85.2												
1003.	4.20	34.56		27.44	74.9												
1203.	3.56	34.58		27.52	67.4												
1472.	2.87	34.61		27.61	58.7												
CROMWELL DRY BULB 25.3	11, STATION WET BULB 23.2	6, 12-56N LAT, 157- OW LONG, DEC. WIND SPEED 17, DIR. 06	4, 1964, 0500 G.C.T. BAR. 1C WEATHER 02	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.93	33.90		22.25	559.3	0.			25.93	33.90	0.	22.25	559.3	0.000			
10.	25.95	33.90		22.24	560.3	10.			25.95	33.90	10.	22.24	560.3	0.056			
20. <sup>A</sup>	25.95	33.90		22.24	560.7	20.			25.95	33.90	20.	22.24	560.7	0.113			
30. <sup>A</sup>	25.95	33.90		22.24	561.1	30.			25.95	33.90	30.	22.24	561.1	0.169			
50.	23.26	34.47		23.48	443.7	50.			23.26	34.47	50.	23.48	443.7	0.271			
75.	20.14	34.84		24.62	335.3	75.			20.14	34.84	75.	24.62	335.3	0.369			
102.	17.08	34.64		25.24	277.3	100.			17.30	34.67	100.	17.30	34.67	25.21	280.3	0.446	
126.	14.39	34.40		25.66	237.4	150.			12.20	34.29	150.	12.20	34.29	26.02	203.2	0.568	
149.	12.29	34.30		26.01	204.4	200.			10.42	34.49	200.	10.42	34.49	26.50	158.4	0.659	
174.	10.58	34.25		26.29	178.3	250.			9.91	34.62	250.	9.91	34.62	26.69	141.7	0.735	
189.	10.50	34.41		26.42	165.4	300.			9.05	34.56	300.	9.05	34.56	26.79	132.9	0.804	
223.	10.22	34.59		26.61	148.2	400.			8.07	34.59	400.	8.07	34.59	26.96	117.5	0.930	
248.	9.97	34.62		26.68	142.4	500.			7.06	34.55	500.	7.06	34.55	27.08	107.5	1.044	
272.	9.30	34.57		26.75	135.6	600.			6.18	34.53	600.	6.18	34.53	27.18	98.1	1.148	
299.	9.06	34.56		26.78	133.1	700.			5.57	34.53	700.	5.57	34.53	27.26	91.2	1.244	
396.	8.11	34.59		26.96	118.0	800.			5.11	34.54	800.	5.11	34.54	27.32	85.6	1.333	
493.	7.13	34.55		27.07	108.2	1000.			4.28	34.56	1000.	4.28	34.56	27.43	75.6	1.496	
587.	6.27	34.53		27.17	99.1	1200.			3.60	34.59	1200.	3.60	34.59	27.52	67.1	1.641	
781.	5.20	34.54		27.31	86.7												
974.	4.38	34.56		27.42	76.9												
1166.	3.71	34.59		27.51	68.1												
1420.	3.01	34.61		27.59	60.1												

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL DRY BULB 25.5		11, STATION 7, 11-30N LAT, 156-59W LONG, DEC. 4, 1964, 1400 G.C.T.		WET BULB 23.0 WIND SPEED 14, DIR. 09 BAR. 09 WEATHER 02		VIS. 7		CLOUD TYPE , COVER							
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	26.24	34.12		22.32	552.7	0.	26.24	34.12	22.32	552.7	0.000				
10. <sup>A</sup>	26.25	34.11		22.31	554.1	10.	26.25	34.11	22.31	554.1	0.056				
30. <sup>A</sup>	26.26	34.12		22.31	554.5	20.	26.26	34.11	22.31	554.5	0.112				
50.	26.27	34.13		22.32	554.9	30.	26.26	34.12	22.31	554.9	0.167				
75.	26.26	34.78		24.54	342.7	50.	26.27	34.13	22.32	554.9	0.279				
100.	15.34	34.50		25.53	249.2	75.	20.26	34.78	24.54	342.7	0.392				
125.	12.91	34.39		25.96	208.9	100.	15.34	34.50	25.53	249.2	0.467				
151.	11.73	34.56		26.32	175.1	150.	11.76	34.55	26.31	176.2	0.574				
178.	11.01	34.64		26.51	157.0	200.	10.73	34.71	26.62	147.4	0.656				
191.	10.86	34.70		26.59	150.3	250.	10.15	34.71	26.72	138.8	0.728				
224.	10.38	34.71		26.68	142.1	300.	9.53	34.69	26.81	131.1	0.796				
249.	10.16	34.71		26.72	138.9	400.	8.58	34.63	26.92	122.2	0.924				
276.	9.87	34.70		26.76	135.4	500.	7.60	34.58	27.02	112.9	1.042				
301.	9.52	34.69		26.81	130.9	600.	6.85	34.56	27.11	105.1	1.152				
401.	8.57	34.63		26.92	122.2	700.	6.16	34.55	27.20	97.6	1.255				
501.	7.59	34.58		27.03	112.8	800.	5.57	34.55	27.27	91.0	1.350				
601.	6.84	34.56		27.12	105.0	1000.	4.74	34.56	27.38	81.7	1.525				
801.	5.56	34.55		27.27	90.9	1200.	3.92	34.58	27.48	71.7	1.680				
1001.	4.74	34.56		27.38	81.7										
1200.	3.92	34.58		27.48	71.7										
1480.	3.14	34.61		27.58	62.1										

CROMWELL DRY BULB 25.1		11, STATION 7A, 10- ON LAT, 154- OW LONG, DEC. 5, 1964, 1000 G.C.T.		WET BULB 23.4 WIND SPEED 16, DIR. 14 BAR. 12 WEATHER 01		VIS. 6		CLOUD TYPE , COVER 6					
DEPTH <sup>A</sup>	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.79	34.15	5.25	22.17	567.1	0.	26.79	34.15	22.17	567.1	0.000		
9.	26.79	34.15		22.17	567.5	10.	26.79	34.15	22.17	567.9	0.057		
20. <sup>A</sup>	26.79	34.15		22.17	567.9	20.	26.79	34.15	22.17	567.9	0.114		
30. <sup>A</sup>	26.79	34.15		22.17	568.3	30.	26.79	34.15	22.17	568.3	0.172		
48.	22.63	34.79	5.26	23.90	403.2	50.	22.31	34.82	24.01	392.6	0.268		
61.	20.44	34.84	5.15	24.54	342.4	75.	16.83	34.60	25.27	273.5	0.352		
74.	17.05	34.62	4.13	25.23	277.2	100.	12.98	34.39	25.94	209.6	0.413		
100.	12.98	34.39	2.48	25.94	209.6	150.	11.42	34.73	26.51	157.0	0.505		
124.	11.86	34.63	0.57	26.35	171.7	200.	10.69	34.74	26.65	144.5	0.581		
150.	11.42	34.73	0.24	26.51	157.0	250.	10.14	34.72	26.73	137.9	0.653		
174.	10.92	34.74	0.28	26.61	148.0	300.	9.81	34.71	26.78	134.3	0.721		
189.	10.78	34.74	0.49	26.63	146.0	400.	9.02	34.67	26.88	126.5	0.853		
222.	10.49	34.74	0.44	26.68	141.7	500.	8.14	34.61	26.97	118.5	0.976		
249.	10.15	34.72	0.48	26.73	138.0	600.	7.05	34.57	27.10	107.0	1.090		
274.	9.94	34.71	0.54	26.76	135.8	700.	6.20	34.56	27.20	97.5	1.194		
299.	9.82	34.71	0.49	26.78	134.3	800.	5.54	34.56	27.28	89.9	1.289		
398.	9.04	34.67	0.51	26.87	126.6	1000.	4.59	34.57	27.40	79.0	1.459		
507.	8.07	34.61	0.28	26.98	117.9	1200.	3.83	34.59	27.50	70.0	1.610		
606.	6.98	34.57	0.43	27.10	106.3								
799.	5.55	34.56	0.76	27.28	90.0								
999.	4.59	34.57	1.00	27.40	79.0								
1198.	3.84	34.59	1.41	27.50	70.0								
1499.	3.06	34.62	1.84	27.60	60.5								

CROMWELL DRY BULB 25.9		11, STATION 8, 11-3IN LAT, 154- OW LONG, DEC. 5, 1964, 1900 G.C.T.		WET BULB 23.2 WIND SPEED 18, DIR. 06 BAR. 14 WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 4					
DEPTH <sup>A</sup>	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.18	34.09	5.42	22.31	553.1	0.	26.18	34.09	22.31	553.1	0.000		
20. <sup>A</sup>	26.18	34.09		22.31	553.9	10.	26.18	34.09	22.31	553.5	0.056		
30. <sup>A</sup>	26.18	34.09		22.31	554.3	20.	26.18	34.09	22.31	553.9	0.111		
49.	23.33	34.70	6.10	23.63	429.0	30.	26.18	34.09	22.31	554.3	0.167		
61.	21.87	34.78	5.70	24.11	384.0	50.	23.21	34.71	23.68	424.8	0.266		
75.	19.50	34.72	5.48	24.70	328.0	75.	19.50	34.72	24.70	328.0	0.361		
100.	15.25	34.51	3.74	25.56	246.5	100.	15.25	34.51	25.56	246.5	0.433		
126.	12.60	34.36	3.21	26.00	205.2	150.	11.68	34.48	26.27	180.0	0.541		
148.	11.69	34.47	1.96	26.26	180.9	200.	10.39	34.60	26.59	149.6	0.624		
175.	11.39	34.57	1.08	26.39	168.8	250.	10.06	34.68	26.71	139.5	0.697		
189.	10.58	34.57	1.04	26.54	155.0	300.	9.50	34.66	26.79	132.6	0.765		
224.	10.38	34.68	0.40	26.66	144.3	400.	8.45	34.61	26.92	121.7	0.894		
248.	10.09	34.68	0.34	26.71	139.9	500.	7.77	34.58	27.00	115.5	1.013		
275.	9.76	34.68	0.38	26.76	135.0	600.	6.82	34.55	27.11	105.4	1.125		
302.	9.48	34.66	0.45	26.79	132.5	700.	6.08	34.54	27.20	97.0	1.227		
401.	8.44	34.61	0.60	26.92	121.6	800.	5.48	34.55	27.28	89.8	1.322		
502.	7.76	34.58	0.70	27.00	115.3	1000.	4.46	34.57	27.42	77.4	1.491		
601.	6.81	34.55	0.76	27.11	105.3	1200.	3.74	34.59	27.51	68.8	1.639		
801.	5.47	34.55	0.92	27.28	89.7	1500.	2.98	34.62	27.61	59.5	1.834		
1002.	4.45	34.57	0.74	27.42	77.3								
1201.	3.74	34.59	1.57	27.51	68.8								
1500.	2.98	34.62	1.96	27.61	59.5								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA								
CROMWELL DRY BULB 25.6	11, STATION WET BULB 22.9	9, 13- ON LAT, 154° 1W LCNG, DEC. WIND SPEED 16, DIR. 05	6, 1964, 0500 G.C.T. BAR. 15 WEATHER 03	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.70	33.88	5.02	22.30	554.0	0.	25.70	33.88	22.30	554.0	0.	25.70	33.88	22.29	556.1	0.056
11.	25.75	33.88	5.06	22.29	555.9	10.	25.75	33.88	22.29	556.1	10.	25.75	33.88	22.41	544.7	0.167
20.	25.72	33.95		22.35	550.3	20.	25.72	33.95	22.35	550.3	20.	25.72	33.95	23.36	454.9	0.267
30.	25.64	34.00		22.41	544.7	30.	25.64	34.00	22.41	544.7	30.	25.64	34.00	24.33	363.5	0.371
51.	24.13	34.73	5.51	23.42	449.3	50.	24.23	34.69	23.36	454.9	50.	24.23	34.69	24.85	314.3	0.456
76.	21.35	34.92	5.29	24.36	360.7	75.	21.46	34.92	24.33	363.5	75.	21.46	34.92	24.85	314.3	0.456
101.	19.49	34.94	4.64	24.87	312.7	100.	19.56	34.94	24.85	314.3	100.	19.56	34.94	25.77	227.3	0.592
125.	16.83	34.70	4.42	25.34	268.0	150.	13.75	34.37	25.77	227.3	150.	13.75	34.37	26.45	163.7	0.691
152.	13.52	34.35	4.44	25.80	224.3	200.	10.94	34.54	26.45	163.7	200.	10.94	34.54	26.61	149.2	0.770
176.	11.50	34.33	2.26	26.18	188.5	250.	10.64	34.68	26.61	149.2	250.	10.64	34.68	26.72	139.2	0.843
190.	11.01	34.46	1.39	26.37	170.6	300.	9.76	34.63	26.72	139.2	300.	9.76	34.63	26.88	125.3	0.976
224.	10.99	34.67	0.32	26.54	155.6	400.	8.63	34.60	26.88	125.3	400.	8.63	34.60	27.02	112.9	1.096
251.	10.62	34.68	0.26	26.61	149.0	500.	7.50	34.56	27.02	112.9	500.	7.50	34.56	27.13	103.5	1.205
277.	10.29	34.66	0.26	26.66	145.4	600.	6.68	34.55	27.13	103.5	600.	6.68	34.55	27.22	95.4	1.306
301.	9.74	34.63	0.36	26.73	138.9	700.	5.95	34.54	27.22	95.4	700.	5.95	34.54	27.29	88.4	1.399
401.	8.62	34.60	0.47	26.89	125.2	800.	5.32	34.54	27.29	88.4	800.	5.32	34.54	27.42	77.5	1.567
503.	7.47	34.56	0.50	27.03	112.5	1000.	4.46	34.57	27.42	77.5	1000.	4.46	34.57	27.50	69.6	1.716
603.	6.66	34.55	0.57	27.13	103.2	1200.	3.80	34.59	27.50	69.6	1200.	3.80	34.59			
805.	5.29	34.54	0.64	27.30	88.1											
1007.	4.44	34.57	1.06	27.42	77.2											
1208.	3.78	34.59	1.50	27.50	69.3											
1455.	3.02	34.60	1.73	27.59	61.2											

CROMWELL DRY BULB 24.7	11, STATION WET BULB 22.1	10, 14-29N LAT, 154° 2W LCNG, DEC. WIND SPEED 18, DIR. 06	6, 1964, 1700 G.C.T. BAR. 13 WEATHER 15	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.70	33.83	5.46	22.27	557.6	0.	25.70	33.83	22.27	557.6	0.	25.70	33.83	22.29	559.7	0.056
11.	25.74	33.82	5.42	22.25	559.9	10.	25.74	33.82	22.24	560.5	10.	25.74	33.82	22.25	560.6	0.169
30.	25.74	33.82		22.25	560.6	20.	25.75	33.82	22.24	561.6	20.	25.75	33.82	22.24	561.6	0.282
51.	25.73	33.82	5.40	22.25	561.1	30.	25.74	33.82	22.25	560.6	30.	25.74	33.82	22.28	511.2	0.417
75.	23.71	33.72	5.95	22.78	511.2	50.	25.75	33.82	22.24	561.6	50.	25.75	33.82	22.28	511.2	0.417
101.	21.85	34.73	5.80	24.07	388.5	75.	23.71	33.72	22.78	511.2	75.	23.71	33.72	22.78	511.2	0.417
127.	20.24	34.85	5.61	24.60	339.0	100.	21.92	34.69	24.03	393.3	100.	21.92	34.69	24.03	393.3	0.531
151.	16.40	34.56	4.42	25.34	269.4	150.	16.57	34.57	25.31	272.0	150.	16.57	34.57	25.31	272.0	0.699
175.	14.24	34.40	3.97	25.69	235.7	200.	11.47	34.24	26.12	195.3	200.	11.47	34.24	26.12	195.3	0.817
189.	12.22	34.24	3.70	25.98	208.5	250.	10.04	34.33	26.44	164.9	250.	10.04	34.33	26.44	164.9	0.907
225.	10.79	34.34	2.10	26.32	176.4	300.	8.62	34.33	26.68	142.9	300.	8.62	34.33	26.68	142.9	0.985
250.	10.04	34.33	2.25	26.44	164.9	400.	7.82	34.50	26.93	120.4	400.	7.82	34.50	26.93	120.4	1.118
276.	8.83	34.24	2.42	26.57	152.6	500.	6.91	34.50	27.06	108.8	500.	6.91	34.50	27.06	108.8	1.233
301.	8.62	34.34	1.49	26.68	142.5	600.	6.12	34.52	27.18	98.1	600.	6.12	34.52	27.18	98.1	1.338
402.	7.80	34.50	0.62	26.93	120.1	700.	5.49	34.53	27.26	90.5	700.	5.49	34.53	27.26	90.5	1.433
503.	6.88	34.50	0.64	27.06	108.5	800.	4.98	34.53	27.33	84.9	800.	4.98	34.53	27.33	84.9	1.522
603.	6.10	34.52	0.74	27.18	97.8	1000.	4.21	34.56	27.44	75.1	1000.	4.21	34.56	27.44	75.1	1.684
803.	4.97	34.53	0.81	27.33	84.7	1200.	3.57	34.58	27.52	67.5	1200.	3.57	34.58	27.52	67.5	1.828
1008.	4.18	34.56	1.10	27.44	74.7	1500.	2.86	34.62	27.62	58.2	1500.	2.86	34.62	27.62	58.2	2.019
1208.	3.55	34.58	1.42	27.52	67.3											
1508.	2.85	34.62	1.96	27.62	58.0											

TEMPERATURE ERROR TERM AT 200. METERS IS 0.18

CROMWELL DRY BULB 25.5	11, STATION WET BULB 22.1	11, 15-57N LAT, 153-58W LCNG, DEC. WIND SPEED 14, DIR. 05	7, 1964, 0300 G.C.T. BAR. 14 WEATHER 03	DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.27	33.97	5.52	22.50	534.9	0.	25.27	33.97	22.50	534.9	0.	25.27	33.97	22.50	535.3	0.054
10.	25.27	33.97	5.60	22.50	535.3	10.	25.27	33.97	22.76	510.8	10.	25.27	33.97	22.76	510.8	0.107
30.	25.14	34.66		23.06	482.6	20.	25.22	34.29	23.19	482.6	20.	25.22	34.29	23.19	482.6	0.157
50.	25.00	34.77	5.52	23.19	471.4	30.	25.14	34.66	23.06	482.6	30.	25.14	34.66	23.06	482.6	0.157
75.	23.54	34.98	5.95	23.78	415.6	50.	25.00	34.77	23.19	471.4	50.	25.00	34.77	23.19	471.4	0.253
99.	21.81	35.04	5.80	24.32	365.0	75.	23.54	34.98	23.78	415.6	75.	23.54	34.98	23.78	415.6	0.364
124.	21.22	35.22	5.47	24.62	337.4	100.	21.78	35.05	24.34	363.7	100.	21.78	35.05	24.34	363.7	0.463
149.	19.73	35.06	5.01	24.90	311.7	150.	19.66	35.05	24.91	310.8	150.	19.66	35.05	24.91	310.8	0.633
173.	17.64	34.77	4.77	25.20	283.0	200.	14.25	34.42	25.70	235.3	200.	14.25	34.42	25.70	235.3	0.770
187.	15.71	34.57	4.89	25.50	254.6	250.	10.56	34.19	26.24	183.9	250.	10.56	34.19	26.24	183.9	0.876
220.	12.46	34.26	4.82	25.95	212.3	300.	9.27	34.26	26.52	158.2	300.	9.27	34.26	26.52	158.2	0.962
246.	10.74	34.20	4.18	26.22	186.3	400.	7.57	34.32	26.83	129.8	400.	7.57	34.32	26.83	129.8	1.107
272.	9.84	34.18	3.80	26.36	173.1	500.	6.74	34.42	27.02	112.0	500.	6.74	34.42	27.02	112.0	1.229
297.	9.33	34.26	2.70	26.51	159.4	600.	6.13	34.46	27.13	102.2	600.	6.13	34.46	27.13	102.2	1.338
396.	7.62	34.32	1.38	26.82	130.7	700.	5.49	34.49	27.24	92.9	700.	5.49	34.49	27.24	92.9	1.4

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 24.3	11, STATION WET BULB 21.7	12, 17-30N LAT, 153-58W LONG, DEC. WIND SPEED 14, DIR. 04	7, 1964, 1300 G.C.T.	7, 1964, 1300 G.C.T.	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 3	DYN.DPTH.			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.98	34.04	4.98	22.64	521.4	0.	24.98	34.04	22.64	521.4	0.000		
10. <sup>A</sup>	24.99	34.04	5.07	22.64	522.1	10.	24.99	34.04	22.64	522.1	0.053		
30. <sup>A</sup>	25.06	34.32		22.83	504.7	20.	25.02	34.15	22.72	515.1	0.105		
51.	25.13	34.65	4.79	23.06	483.8	30.	25.06	34.32	22.83	504.7	0.156		
78.	25.03	34.76	4.90	23.17	474.0	50.	25.13	34.64	23.05	484.7	0.256		
101.	22.92	35.03	5.13	24.00	395.8	75.	25.11	34.75	23.14	476.9	0.377		
126.	21.68	35.16	4.86	24.45	353.9	100.	23.02	35.02	23.96	399.5	0.487		
151.	20.70	35.15	4.79	24.71	329.9	150.	20.75	35.15	24.70	330.8	0.671		
175.	18.85	34.92	4.31	25.02	301.0	200.	16.58	34.63	25.35	270.0	0.823		
190.	17.53	34.74		25.21	283.2	250.	11.81	34.19	26.02	205.9	0.943		
224.	14.24	34.39	4.14	25.69	237.8	300.	10.03	34.17	26.32	177.6	1.039		
248.	11.93	34.20	4.46	26.00	207.5	400.	7.63	34.20	26.72	139.7	1.199		
274.	10.81	34.17	3.80	26.18	190.3	500.	6.17	34.24	26.95	118.0	1.330		
300.	10.03	34.17	3.65	26.32	177.6	600.	5.91	34.40	27.11	104.1	1.442		
396.	7.71	34.20	2.17	26.71	140.9	700.	5.41	34.46	27.22	94.6	1.542		
493.	6.21	34.23	1.35	26.94	119.2	800.	4.90	34.47	27.29	88.0	1.634		
589.	5.96	34.39	0.80	27.10	105.3	1000.	4.26	34.52	27.40	78.2	1.803		
787.	4.95	34.47	0.91	27.28	88.7	1200.	3.63	34.56	27.50	69.4	1.952		
982.	4.32	34.52	1.04	27.39	79.2								
1178.	3.65	34.56	1.29	27.49	69.7								
1472.	2.99	34.60	1.75	27.59	60.9								

CROMWELL DRY BULB 24.6	11, STATION WET BULB 21.9	13, 19- ON LAT, 154- OW LONG, DEC. WIND SPEED 18, DIR. C7	7, 1964, 2200 G.C.T.	7, 1964, 2200 G.C.T.	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 2	DYN.DPTH.		
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.01	34.74	4.99	23.16	471.8	0.	25.01	34.74	23.16	471.8	0.000	
10.	25.00	34.74	5.05	23.17	471.9	10.	25.00	34.74	23.17	471.9	0.048	
30. <sup>A</sup>	25.00	34.74		23.17	472.7	20.	25.00	34.74	23.16	472.4	0.095	
50. <sup>A</sup>	25.01	34.78		23.19	470.9	30.	25.00	34.74	23.17	472.7	0.143	
73.	25.02	34.81	4.93	23.21	470.0	50.	25.01	34.78	23.19	470.9	0.238	
97.	24.91	34.89	5.01	23.31	462.0	75.	25.05	34.81	23.21	470.6	0.356	
122.	22.71	35.04	5.12	24.07	390.2	100.	24.67	34.90	23.39	454.1	0.473	
147.	21.78	35.26	5.04	24.50	350.1	150.	21.71	35.27	24.52	347.6	0.675	
172.	21.21	35.29	4.87	24.68	333.8	200.	20.10	35.20	24.91	312.5	0.841	
185.	20.83	35.29	4.81	24.78	324.4	250.	16.51	34.67	25.39	267.1	0.987	
217.	19.01	35.04	4.68	25.07	297.7	300.	12.14	34.22	25.97	211.4	1.108	
243.	16.96	34.73	4.60	25.34	272.5	400.	9.42	34.39	26.59	153.2	1.292	
268.	15.22	34.51	4.62	25.56	250.8	500.	7.64	34.40	26.87	127.1	1.433	
292.	12.63	34.24	4.34	25.90	218.8	600.	6.82	34.44	27.03	113.4	1.555	
389.	9.69	34.39	1.48	26.55	157.6	700.	5.90	34.45	27.16	101.1	1.663	
487.	7.78	34.39	0.80	26.85	129.4	800.	5.13	34.47	27.26	91.4	1.761	
586.	6.96	34.44	0.62	27.00	115.3	1000.	4.43	34.54	27.40	79.1	1.933	
782.	5.22	34.46	0.88	27.24	92.9	1200.	3.75	34.57	27.49	70.2	2.084	
982.	4.50	34.54	1.06	27.39	79.9							
1179.	3.78	34.55	1.22	27.47	72.1							
1480.	2.95	34.60	1.60	27.59	60.5							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.14

CROMWELL DRY BULB 24.0	11, STATION WET BULB 22.1	14, 20-30N LAT, 153-57W LONG, DEC. WIND SPEED 15, DIR. 09	8, 1964, 0700 G.C.T.	8, 1964, 0700 G.C.T.	BAR. 16	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 3	DYN.DPTH.		
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.12	34.55	4.84	22.99	488.7	0.	25.12	34.55	22.99	488.7	0.000	
10. <sup>A</sup>	25.11	34.55	4.91	22.99	488.8	10.	25.11	34.55	22.99	488.8	0.049	
50. <sup>A</sup>	25.10	34.68		23.09	480.7	20.	25.11	34.57	23.01	487.3	0.098	
76.	25.09	34.75	4.86	23.15	476.4	30.	25.10	34.60	23.03	485.5	0.147	
102.	23.01	34.90	5.23	23.88	407.7	50.	25.10	34.68	23.09	480.7	0.245	
127.	22.38	35.19	4.93	24.27	370.6	75.	25.11	34.75	23.14	477.2	0.365	
152.	20.90*	35.19	4.69	24.68	332.2	100.	23.18	34.88	23.81	413.5	0.478	
176.	19.98	35.13	4.59	24.89	313.9	150.	21.02	35.20	24.66	334.9	0.666	
192.	19.30	35.05	4.54	25.00	303.2	200.	18.86	34.99	25.07	296.9	0.825	
226.	17.03	34.76	4.52	25.34	271.4	250.	14.79	34.51	25.66	241.4	0.961	
252.	14.62	34.49	4.54	25.68	239.2	300.	12.48	34.29	25.97	212.2	1.075	
278.	13.54	34.39	4.61	25.83	225.2	400.	8.94	34.11	26.45	166.3	1.266	
303.	12.33	34.28	4.69	25.99	210.4	500.	6.81	34.17	26.82	131.6	1.417	
404.	8.84	34.11	3.73	26.47	164.8	600.	5.60	34.28	27.05	109.3	1.538	
505.	6.73	34.18	1.65	26.83	130.1	700.	4.99	34.38	27.20	95.3	1.642	
604.	5.57	34.28	0.99	27.06	108.6	800.	4.67	34.46	27.30	86.3	1.734	
804.	4.66	34.46	0.86	27.31	86.0	1000.	4.07	34.52	27.42	76.3	1.898	
1006.	4.05	34.52	1.09	27.42	76.1	1200.	3.47	34.56	27.51	68.1	2.044	
1199.	3.42	34.55	1.41	27.51	67.9							
1492.	2.85	34.59	1.65	27.59	60.1							

\*FROM BT DATA

\*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 24.0		11, STATION 15, 22- IN LAT, 153-55W LONG, DEC. WET BULB 21.8		8, 1964, 1600 G.C.T. WIND SPEED 24, DIR. 10		BAR. 17		WEATHER 02		VIS. 7	CLOUD TYPE	COVER	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.60	34.84	4.82	23.36	452.8	0.	24.60	34.84	23.36	452.8	0.000		
10.	24.63	34.84	4.86	23.35	454.1	10.	24.63	34.84	23.35	454.1	0.046		
30. <sup>A</sup>	24.59	34.92		23.43	447.9	20.	24.63	34.87	23.38	452.0	C.091		
50.	24.35	34.99	4.88	23.55	436.8	30.	24.59	34.92	23.43	447.9	0.137		
76.	23.16	35.07	5.05	23.96	398.6	50.	24.35	34.99	23.55	436.8	0.226		
101.	22.24	35.14	4.95	24.28	369.4	75.	23.21	35.07	23.94	400.2	0.331		
126.	21.42	35.21	4.80	24.56	343.4	100.	22.27	35.14	24.26	370.5	0.428		
152.	20.07	35.11	4.50	24.85	316.7	150.	20.18	35.12	24.83	318.6	0.602		
176.	18.97	34.99	4.50	25.04	298.9	200.	17.65	34.80	25.22	282.0	0.753		
190.	18.21	34.88	4.43	25.15	289.0	250.	14.01	34.37	25.72	235.3	0.884		
225.	16.02	34.59	4.22	25.45	261.1	300.	11.77	34.20	26.03	205.6	0.995		
247.	14.20	34.39	4.12	25.69	237.7	400.	8.84	34.13	26.48	163.1	1.161		
277.	12.66	34.25	4.09	25.90	218.2	500.	6.57	34.03	26.74	138.8	1.333		
302.	11.70	34.20	4.09	26.04	204.6	600.	5.31	34.13	26.97	116.6	1.462		
402.	8.79	34.13	3.15	26.49	162.5	700.	4.77	34.28	27.15	99.5	1.571		
503.	6.51	34.03	2.48	26.74	138.2	800.	4.54	34.43	27.29	87.1	1.666		
603.	5.28	34.13	1.18	26.98	116.0	1000.	4.01	34.50	27.41	77.0	1.832		
803.	4.54	34.43	1.22	27.30	86.8	1200.	3.51	34.55	27.50	69.0	1.980		
1003.	4.00	34.50	1.13	27.41	76.9								
1196.	3.51	34.55	1.32	27.50	68.9								
1481.	2.90	34.58	1.59	27.58	61.4								

CROMWELL 11, STATION 16, 23-28N LAT, 153-56W LONG, DEC. 9, 1964, 0000 G.C.T. DRY BULB 24.0 WET BULB 20.7				WIND SPEED 20, DIR. 09				BAR. 17				WEATHER 01			VIS. 7	CLOUD TYPE	COVER 1
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	23.95	35.14	4.92	23.78	412.7	0.	23.95	35.14	23.78	412.7	0.000						
9.	23.92	35.15	4.94	23.80	411.5	10.	23.92	35.15	23.80	411.3	0.041						
30. <sup>A</sup>	23.84	35.17		23.84	408.6	20.	23.88	35.16	23.82	409.9	0.083						
50. <sup>A</sup>	23.80	35.18		23.86	407.5	30.	23.84	35.17	23.84	408.6	0.124						
72.	23.48	35.20	4.92	23.97	398.0	50.	23.80	35.18	23.86	407.5	0.206						
95.	23.08	35.30	4.88	24.16	380.6	75.	23.45	35.22	23.99	396.1	0.308						
118.	22.04	35.25	4.90	24.42	356.7	100.	22.90	35.30	24.21	376.1	0.405						
142.	20.48	35.19	4.79	24.80	321.0	150.	20.16	35.17	24.87	314.4	0.579						
166.	19.45	35.10	4.74	25.00	302.4	200.	17.25	34.78	25.31	274.0	0.727						
180.	18.40	34.95	4.70	25.15	288.2	250.	14.24	34.44	25.72	235.1	0.855						
212.	16.59	34.69	4.62	25.39	266.1	300.	12.13	34.25	26.00	208.8	0.967						
236.	14.95	34.50	4.68	25.62	244.9	400.	9.05	34.11	26.43	168.3	1.158						
260.	13.79	34.40	4.72	25.79	229.0	500.	6.81	34.06	26.73	139.8	1.313						
282.	12.80	34.30	4.79	25.91	217.4	600.	5.72	34.13	26.92	121.4	1.445						
373.	9.87	34.14	3.96	26.32	178.6	700.	4.99	34.25	27.10	104.9	1.559						
466.	7.36	34.06	2.96	26.65	147.3	800.	4.53	34.36	27.24	91.8	1.659						
557.	6.13	34.09	1.81	26.84	129.4	1000.	3.90	34.50	27.42	75.7	1.828						
742.	4.78	34.30	0.78	27.17	98.7	1200.	3.32	34.55	27.52	66.7	1.972						
929.	4.12	34.47	1.02	27.37	79.9												
1117.	3.56	34.53	1.18	27.48	70.4												
1200. <sup>**</sup>	3.32**	34.55**		27.52	66.7												

CROMWELL 11, STATION 17, 23-33N LAT, 151-0W LONG, DEC. 9, 1964, 1700 G.C.T. DRY BULB 23.7 WET BULB 21.4				WIND SPEED 18, DIR. 11				BAR. 18				WEATHER 15			VIS. 7	CLOUD TYPE	COVER 7
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	23.89	35.03		23.72	418.9	0.	23.89	35.03	23.72	418.9	C.000						
9.	23.90	35.02		23.71	420.3	10.	23.90	35.02	23.71	420.4	0.042						
30. <sup>A</sup>	23.90	35.03		23.71	420.4	20.	23.91	35.02	23.71	420.8	0.085						
50. <sup>A</sup>	23.76	35.03		23.76	417.2	30.	23.90	35.03	23.71	420.4	0.127						
71.	23.66	35.04		23.79	414.5	50.	23.76	35.03	23.76	417.2	0.211						
95.	23.12	35.14		24.03	393.2	75.	23.63	35.06	23.81	412.6	0.316						
118.	21.52	35.19		24.52	347.2	100.	22.78	35.16	24.13	383.1	0.416						
142.	20.68	35.18		24.74	326.9	150.	20.55	35.18	24.77	323.8	0.594						
166.	20.21	35.15		24.84	317.9	200.	18.54	34.93	25.10	293.6	0.750						
180.	19.55	35.05		24.94	309.0	250.	15.49	34.54	25.53	254.0	0.888						
211.	17.93	34.86		25.20	284.6	300.	12.35	34.23	25.94	214.8	1.006						
236.	16.39	34.65		25.41	265.2	400.	9.12	34.08	26.40	171.3	1.201						
260.	14.82	34.46		25.61	245.8	500.	6.97	34.07	26.72	141.1	1.359						
284.	13.15	34.29		25.83	225.0	600.	5.67	34.15	26.94	119.7	1.490						
377.	9.77	34.10		26.31	180.0	700.	4.99	34.27	27.12	103.0	1.603						
474.	7.44	34.07		26.65	147.8	800.	4.61	34.38	27.25	91.4	1.701						
569.	5.96	34.11		26.88	125.8	1000.	3.98	34.47	27.39	76.6	1.873						
760.	4.77	34.35		27.21	95.1	1200.	3.46	34.54	27.50	68.8	2.022						
951.	4.12	34.45		27.36	81.6												
1143.	3.61	34.53		27.47	71.2												
1439.	2.97	34.58		27.57	61.9												

FROM BT DATA  
\*\*EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		11, STATION 18, 22- ON LAT, 151- 1W LONG, DEC. 10, 1964, 0300 G.C.T.												
DRY BULB 22.9		WET BULB 21.6 WIND SPEED 18, DIR. 15 BAR. 16 WEATHER 53												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.12	34.80			23.48	442.0	0.	24.12	34.80	23.48	442.0	0.000		
10.	24.17	34.86			23.51	439.5	10.	24.17	34.86	23.51	439.5	0.044		
20. <sup>A</sup>	24.18	34.86			23.50	440.2	20.	24.18	34.86	23.50	440.2	0.089		
30. <sup>A</sup>	24.10	34.90			23.56	435.4	30.	24.10	34.90	23.56	435.4	0.133		
51.	23.34*	35.12			23.95	399.0	50.	23.38	35.11	23.93	400.8	0.217		
76.	23.04	35.09			24.01	393.9	75.	23.05	35.09	24.01	394.0	0.317		
100.	21.98	35.21			24.40	357.3	100.	21.98	35.21	24.40	357.3	0.412		
125.	21.14	35.21			24.63	336.1	150.	20.42	35.20	24.82	319.0	0.582		
151.	20.39	35.20			24.83	318.3	200.	18.65	34.99	25.12	291.8	0.736		
175.	19.48	35.10			24.99	303.5	250.	14.67	34.40	25.60	247.2	0.872		
190.	19.00	35.04			25.07	296.5	300.	11.42	34.09	26.01	207.4	0.987		
223.	17.40	34.81			25.29	276.2	400.	8.38	34.08	26.52	159.8	1.172		
251.	14.57	34.38			25.61	246.1	500.	6.26	34.10	26.83	129.6	1.318		
275.	12.88	34.20			25.82	226.1	600.	5.06	34.20	27.06	108.0	1.438		
301.	11.37	34.09			26.02	206.7	700.	4.57	34.34	27.22	93.0	1.539		
400.	8.38	34.08			26.52	159.8	800.	4.40	34.46	27.34	82.8	1.628		
501.	6.24	34.10			26.83	129.3	1000.	3.92	34.52	27.43	74.5	1.788		
600.	5.06	34.20			27.06	108.0	1200.	3.49	34.56	27.51	68.0	1.932		
800.	4.40	34.46			27.34	82.8	1500.	2.87	34.59	27.59	60.4	2.127		
1002.	3.92	34.52			27.43	74.5								
1202.	3.49	34.56			27.51	68.0								
1502.	2.87	34.59			27.59	60.4								
CROMWELL		11, STATION 19, 20-30N LAT, 151- 6W LONG, DEC. 10, 1964, 1300 G.C.T.												
DRY BULB 24.0		WET BULB 22.1 WIND SPEED 13, DIR. 14 BAR. 16 WEATHER 03												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.19	34.85			23.49	440.4	0.	24.19	34.85	23.49	440.4	0.000		
9. <sup>A</sup>	24.22	34.85			23.48	441.6	10.	24.22	34.85	23.48	441.8	0.044		
30. <sup>A</sup>	24.21	34.85			23.49	442.1	20.	24.22	34.84	23.48	442.7	0.089		
49.	24.17	34.96			23.58	433.8	30.	24.21	34.85	23.49	442.1	0.134		
74.	23.73	35.08			23.80	413.7	50.	24.17	34.97	23.59	433.4	0.222		
98.	22.07	35.16			24.34	363.3	75.	23.66	35.08	23.83	411.6	0.328		
123.	21.40	35.18			24.54	345.0	100.	22.01	35.17	24.36	361.4	0.426		
148.	20.02	35.07			24.83	318.2	150.	19.95	35.07	24.85	316.7	0.596		
172.	18.99	35.00			25.04	298.6	200.	16.95	34.72	25.33	271.5	0.745		
187.	17.73	34.83			25.23	281.2	250.	13.84	34.38	25.76	231.6	0.871		
219.	15.93	34.59			25.47	258.9	300.	10.77	34.12	26.15	193.8	0.979		
246.	14.14	34.41			25.72	234.9	400.	7.69	34.07	26.61	150.3	1.152		
271.	12.34	34.21			25.93	215.0	500.	5.75	34.11	26.90	122.1	1.290		
295.	10.99	34.13			26.12	196.8	600.	5.07	34.27	27.11	102.7	1.403		
393.	7.87	34.07			26.58	152.8	700.	4.66	34.38	27.25	90.5	1.501		
492.	5.84	34.10			26.88	124.0	800.	4.38	34.46	27.34	82.8	1.589		
590.	5.12	34.26			27.10	104.2	1000.	3.84	34.52	27.45	73.2	1.747		
787.	4.42	34.45			27.33	83.7	1200.	3.35	34.57	27.53	65.8	1.887		
984.	3.88	34.52			27.44	73.8								
1182.	3.42	34.56			27.52	67.0								
1439.	2.78	34.60			27.61	58.2								
CROMWELL		20, 19- IN LAT, 151- OW LONG, DEC. 10, 1964, 2200 G.C.T.												
DRY BULB 24.7		WET BULB 22.0 WIND SPEED 15, DIR. 11 BAR. 16 WEATHER 02												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.77	34.69			23.20	468.5	0.	24.77	34.69	23.20	468.5	0.000		
9. <sup>A</sup>	24.71	34.69			23.22	467.1	10.	24.71	34.69	23.22	467.1	0.047		
30. <sup>A</sup>	24.66	34.70			23.24	465.8	20.	24.68	34.69	23.23	466.4	0.094		
50. <sup>A</sup>	24.62	34.74			23.28	462.5	30.	24.66	34.70	23.24	465.8	0.141		
75.	24.56	34.98			23.48	444.5	50.	24.62	34.74	23.28	462.5	0.235		
99.	23.75	35.07			23.79	416.0	75.	24.56	34.98	23.48	444.5	0.349		
125.	22.33	35.18			24.28	369.9	100.	23.70	35.07	23.81	414.3	0.457		
150.	20.83	35.20			24.71	329.6	150.	20.83	35.20	24.71	329.6	0.644		
175.	19.97	35.12			24.88	314.3	200.	18.46	34.94	25.13	291.1	0.801		
190.	19.07	35.02			25.04	299.7	250.	13.97	34.35	25.71	236.0	0.934		
224.	16.67	34.69			25.37	268.2	300.	10.52	34.23	26.28	181.5	1.039		
251.	13.87	34.34			25.72	234.7	400.	7.85	34.23	26.71	140.8	1.202		
276.	11.97	34.25			26.03	205.3	500.	6.67	34.32	26.95	118.7	1.333		
300.	10.52	34.23			26.28	181.5	600.	5.87	34.40	27.12	103.3	1.445		
400.	7.85	34.23			26.71	140.8	700.	5.32	34.46	27.23	93.5	1.544		
498.	6.69	34.32			26.95	119.1	800.	4.92	34.49	27.30	86.9	1.635		
596.	5.89	34.40			27.11	103.7	1000.	4.18	34.53	27.42	76.9	1.801		
797.	4.93	34.49			27.30	87.1	1200.	3.57	34.56	27.50	69.2	1.949		
995.	4.20	34.53			27.41	77.1								
1193.	3.61	34.55			27.49	70.1								
1423.	2.99	34.59			27.58	61.3								

\*FROM BT DATA

\*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		11, STATION		21, 17-30N LAT, 150-58W LONG, DEC. 11, 1964, 0800 G.C.T.									
DRY BULB	24.4	WET BULB	21.9	WIND SPEED	10, DIR. 10	BAR.	16	WEATHER	02	VIS.	7	CLOUD TYPE	8, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.38	34.96			23.52	437.9	0.	24.38	34.96	23.52	437.9	0.000	
9.	24.36	34.96			23.52	437.6	10.	24.36	34.96	23.53	437.5	0.044	
19. <sup>A</sup>	24.32	34.97			23.54	436.2	20.	24.31	34.97	23.55	435.9	0.088	
50. <sup>A</sup>	24.10	35.02			23.65	427.5	30.	24.25	34.98	23.58	433.5	0.132	
59.	24.05	35.04			23.68	425.0	50.	24.10	35.02	23.65	427.5	0.219	
84.	21.84	35.19			24.43	354.4	75.	22.74	35.14	24.13	382.3	0.321	
109.	20.89	35.21			24.70	329.0	100.	21.18	35.21	24.63	335.8	0.411	
134.	19.62	35.15			24.99	301.9	150.	18.47	34.95	25.14	288.6	0.568	
159.	17.74	34.82			25.22	281.3	200.	13.75	34.33	25.74	231.4	0.699	
184.	15.58	34.53			25.50	254.6	250.	10.87	34.28	26.26	182.7	0.804	
209.	12.78	34.25			25.88	218.8	300.	9.59	34.42	26.59	152.1	0.888	
232.	11.34	34.24			26.14	193.5	400.	8.11	34.46	26.85	127.7	1.029	
259.	10.71	34.31			26.31	177.9	500.	7.19	34.47	27.00	115.1	1.152	
283.	9.96	34.40			26.51	159.1	600.	6.46	34.48	27.10	105.6	1.263	
307.	9.46	34.42			26.61	150.0	700.	5.81	34.49	27.19	97.5	1.366	
504.	7.17	34.47			27.00	114.9	800.	5.29	34.50	27.27	90.7	1.461	
603.	6.44	34.48			27.11	105.3	1000.	4.49	34.54	27.39	80.3	1.634	
704.	5.79	34.49			27.20	97.2	1200.	3.79	34.56	27.48	71.6	1.788	
901.	4.85	34.52			27.33	85.0	1500.	2.94	34.60	27.60	60.2	1.989	
1099.	4.16	34.55			27.43	76.1	2000.	2.10	34.65	27.71	49.0	2.266	
1200.	3.79	34.56			27.48	71.6	2500.	1.75	34.68	27.76	44.6	2.504	
1472.	3.00	34.60	3.56		27.59	61.0	3000.	1.60	34.70	27.80	43.2	2.737	
1942.	2.16	34.65	2.87		27.70	49.7							
2913.	1.65	34.69	1.52		27.77	43.9							
3907.	1.44	34.70	2.27		27.80	43.0							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.17  
 TEMPERATURE ERROR TERM AT 3000. METERS IS 0.14

CROMWELL		11, STATION		22, 16- ON LAT, 150-59W LONG, DEC. 11, 1964, 1700 G.C.T.									
DRY BULB	24.8	WET BULB	22.1	WIND SPEED	19, DIR. 06	BAR.	14	WEATHER	02	VIS.	7	CLOUD TYPE	4, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.40	34.04			22.52	533.6	0.	25.40	34.04	22.52	534.1	0.054	
9. <sup>A</sup>	25.41	34.04			22.51	534.3	10.	25.41	34.04	22.54	532.2	0.107	
30. <sup>A</sup>	25.40	34.10			22.56	530.5	20.	25.41	34.07	22.56	530.5	0.161	
75.	23.12	34.90			22.52	535.6	30.	25.40	34.10	22.52	535.6	0.268	
100.	20.27	35.01			24.72	327.2	75.	23.12	34.90	23.84	409.7	0.387	
126.	17.62	34.69			25.15	286.8	100.	20.27	35.01	24.72	327.2	0.490	
151.	13.96	34.34			25.70	233.8	150.	14.10	34.35	25.68	235.7	0.622	
176.	12.10	34.21			25.98	208.2	200.	11.08	34.22	26.17	189.6	0.729	
191.	11.34	34.19			26.10	196.3	250.	9.16	34.21	26.50	159.3	0.817	
224.	10.45	34.30			26.35	173.5	300.	8.94	34.41	26.69	142.3	0.893	
251.	9.12	34.21			26.50	158.9	400.	7.82	34.47	26.91	122.6	1.027	
277.	9.21	34.36			26.60	149.8	500.	7.31	34.54	27.03	111.7	1.145	
301.	8.92	34.41			26.69	142.0	600.	6.56	34.53	27.13	103.3	1.254	
402.	7.80	34.47			26.91	122.3	700.	5.86	34.52	27.21	95.7	1.354	
502.	7.30	34.54			27.04	111.5	800.	5.24	34.52	27.29	88.9	1.448	
603.	6.54	34.53			27.13	103.0	1000.	4.32	34.55	27.42	77.2	1.616	
803.	5.22	34.52			27.29	88.7	1200.	3.73	34.58	27.50	69.4	1.764	
1003.	4.31	34.55			27.42	77.0							
1203.	3.72	34.58			27.50	69.3							
1484.	2.94	34.61			27.60	59.7							

CROMWELL		11, STATION		23, 14-31N LAT, 151- OW LONG, DEC. 12, 1964, 0200 G.C.T.									
DRY BULB	26.2	WET BULB	22.6	WIND SPEED	19, DIR. 16	BAR.	11	WEATHER	02	VIS.	7	CLOUD TYPE	8, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.55	34.00			22.44	540.9	0.	25.55	34.00	22.44	540.9	0.000	
9. <sup>A</sup>	25.54	34.00			22.44	541.0	10.	25.53	34.01	22.45	540.3	0.054	
30. <sup>A</sup>	25.32	34.13			22.61	526.0	20.	25.43	34.06	22.53	533.6	0.109	
49.	25.34	34.17			22.63	524.4	30.	25.32	34.13	22.61	526.0	0.162	
74.	22.86	34.83			23.87	407.6	50.	25.27	34.20	22.67	520.4	0.267	
98.	20.69	34.88			24.51	347.3	75.	22.78	34.84	23.90	404.6	0.384	
123.	17.12	34.56			25.17	284.7	100.	20.41	34.86	24.56	341.7	0.478	
148.	14.75	34.44			25.61	242.6	150.	14.47	34.41	25.65	238.7	0.624	
172.	11.87	34.25			26.05	200.9	200.	11.32	34.57	26.40	168.1	0.727	
186.	11.50	34.44			26.27	180.6	250.	10.34	34.62	26.61	148.8	0.807	
219.	11.10	34.66			26.51	158.1	300.	9.74	34.63	26.73	138.9	0.879	
246.	10.40	34.62			26.61	149.6	400.	8.53	34.59	26.89	124.7	1.012	
271.	10.08	34.61			26.65	145.4	500.	7.50	34.55	27.01	113.9	1.133	
295.	9.80	34.63			26.72	139.8	600.	6.70	34.53	27.11	105.4	1.243	
392.	8.62	34.59			26.88	125.7	700.	5.95	34.53	27.21	96.7	1.345	
490.	7.59	34.55			27.00	114.8	800.	5.32	34.53	27.29	89.0	1.439	
587.	6.81	34.53			27.10	106.6	1000.	4.45	34.55	27.40	78.5	1.609	
782.	5.41	34.53			27.28	90.2	1200.	3.74	34.57	27.50	69.9	1.759	
977.	4.54	34.55			27.39	79.6							
1173.	3.82	34.57			27.48	71.0							
1393.	3.21	34.60			27.57	63.1							

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	11, STATION	24, 13- ON LAT, 151- 0W LCNG, DEC. 12, 1964, 1200 G.C.T.						VIS. 6	CLOUD TYPE 8, COVER 4				
DRY BULB	24.8	WET BULB	22.5	WIND SPEED	15, DIR. C8	BAR. 12	WEATHER 02						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.51	34.05			22.49	536.1	0.	25.51	34.05	22.49	536.1	0.000	
10. <sup>A</sup>	25.53	34.05			22.48	537.1	10.	25.53	34.05	22.48	537.1	0.054	
20. <sup>A</sup>	25.53	34.05			22.48	537.5	20.	25.53	34.05	22.48	537.5	0.108	
30. <sup>A</sup>	25.53	34.05			22.48	537.9	30.	25.53	34.05	22.48	537.9	0.162	
52.	22.83	34.62			23.72	421.1	50.	23.15	34.56	23.58	434.0	0.260	
77.	20.03	34.74			24.58	339.9	75.	20.27	34.75	24.52	345.3	0.358	
103.	15.78	34.47			25.41	260.9	100.	16.28	34.51	25.33	268.8	0.436	
127.	12.85	34.32			25.92	212.9	150.	11.50	34.41	26.25	181.8	0.549	
154.	11.37	34.44			26.29	177.5	200.	10.51	34.62	26.59	150.3	0.633	
179.	10.83	34.57			26.49	159.1	250.	10.11	34.67	26.70	141.0	0.706	
194.	10.58	34.61			26.57	152.2	300.	9.50	34.66	26.79	133.1	0.776	
228.	10.28	34.66			26.66	144.2	400.	8.53	34.61	26.91	123.2	0.905	
256.	10.05	34.67			26.71	140.2	500.	7.54	34.56	27.02	113.3	1.024	
282.	9.60	34.65			26.77	134.8	600.	6.64	34.54	27.13	103.5	1.134	
307.	9.48	34.66			26.79	132.6	700.	5.95	34.54	27.22	95.6	1.234	
408.	8.43	34.60			26.91	122.4	800.	5.41	34.55	27.29	89.0	1.328	
511.	7.44	34.56			27.03	112.2	1000.	4.52	34.57	27.41	78.3	1.497	
612.	6.54	34.54			27.14	102.4	1200.	3.98	34.58	27.47	72.6	1.650	
815.	5.34	34.55			27.30	88.2	1500.	3.14	34.61	27.58	62.3	1.855	
1019.	4.45	34.57			27.42	77.5							
1220.	3.94	34.58			27.48	72.2							
1511.	3.12	34.61			27.58	62.0							

CROMWELL	11, STATION	25, 11-31N LAT, 150-49W LONG, DEC. 12, 1964, 2300 G.C.T.						VIS. 5	CLOUD TYPE 8, COVER 4				
DRY BULB	26.3	WET BULB	23.0	WIND SPEED	19, DIR. 07	BAR. 11	WEATHER 02						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.42	34.08			22.54	531.3	0.	25.42	34.08	22.54	531.3	0.000	
9. <sup>A</sup>	25.42	34.08			22.54	531.7	10.	25.42	34.08	22.54	531.8	0.054	
20. <sup>A</sup>	25.40	34.08			22.55	531.5	20.	25.40	34.08	22.55	531.5	0.107	
30. <sup>A</sup>	25.30	34.14			22.62	524.7	30.	25.30	34.14	22.62	524.7	0.160	
49.	21.80	34.83			24.16	378.1	50.	21.72	34.85	24.20	374.5	0.251	
74.	19.99	34.99			24.78	320.6	75.	19.84	34.97	24.80	318.0	0.338	
98.	16.06	34.55			25.41	261.0	100.	15.76	34.53	25.46	255.9	0.410	
124.	12.96	34.48			26.02	203.2	150.	12.06	34.72	26.38	169.7	0.518	
146.	12.13	34.71			26.36	171.3	200.	10.91	34.75	26.61	147.9	0.598	
172.	11.42	34.74			26.52	156.8	250.	10.35	34.73	26.70	140.9	0.670	
197.	10.95	34.75			26.61	148.4	300.	9.94	34.72	26.76	135.8	0.740	
221.	10.70	34.74			26.65	145.3	400.	9.33	34.68	26.83	130.8	0.875	
245.	10.41	34.73			26.69	141.6	500.	8.47	34.64	26.94	121.7	1.002	
270.	10.14	34.72			26.73	138.3	600.	7.51	34.59	27.05	112.5	1.120	
293.	9.98	34.72			26.76	136.1	700.	6.62	34.56	27.15	103.3	1.229	
386.	9.43	34.68			26.82	131.9	800.	5.88	34.55	27.23	95.3	1.330	
482.	8.64	34.65			26.92	123.3	1000.	4.85	34.56	27.37	83.0	1.510	
577.	7.73	34.60			27.02	114.7	1200.	4.00	34.57	27.47	73.1	1.668	
767.	6.09	34.55			27.21	97.6	1500.	3.16	34.61	27.58	62.8	1.875	
958.	5.06	34.56			27.34	85.4	2000.	2.28	34.65	27.69	51.8	2.166	
1148.	4.18	34.57			27.45	75.3	2500.	1.89	34.67	27.74	47.0	2.418	
1441.	3.31	34.60			27.56	64.6	3000.	1.63	34.69	27.77	44.1	2.650	
1911.	2.39	34.64	2.23		27.67	53.2							
2388.	1.96	34.67	2.57		27.73	47.7							
2869.	1.72	34.68	2.91		27.76	45.5							
3852.	1.46	34.70	3.57		27.79	43.2							

CROMWELL	11, STATION	26, 10- 4N LAT, 147-58W LONG, DEC. 13, 1964, 2200 G.C.T.						VIS. 6	CLOUD TYPE 8, COVER 9				
DRY BULB	26.0	NET BULB	24.0	WIND SPEED	20, DIR. 12	BAR. 11	WEATHER 02						
DEPTH <sup>A</sup>	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.58	33.84			22.31	553.3	0.	25.58	33.84	22.31	553.7	0.000	
10. <sup>A</sup>	25.58	33.84	4.77		22.31	553.7	10.	25.58	33.84	22.31	553.7	0.056	
20. <sup>A</sup>	25.58	33.84			22.31	554.1	20.	25.58	33.84	22.31	554.1	0.112	
30. <sup>A</sup>	25.50	33.85			22.34	551.4	30.	25.50	33.85	22.34	551.4	0.167	
40.	17.24	34.56	3.91		25.14	204.8	50.	14.91	34.52	25.64	237.4	0.247	
52.	14.82	34.47	3.17		25.62	239.0	75.	12.73	34.63	26.18	186.7	0.300	
77.	12.65	34.65	0.45		26.21	183.6	100.	11.71	34.75	26.47	159.2	0.344	
102.	11.66	34.76	0.19		26.49	158.0	150.	10.95	34.74	26.60	147.8	0.421	
128.	11.19	34.75	0.34		26.57	151.0	200.	10.35	34.74	26.71	138.9	0.493	
155.	10.90	34.74	0.45		26.61	147.3	250.	9.90	34.71	26.76	134.5	0.562	
180.	10.58	34.73	0.41		26.66	143.1	300.	9.57	34.70	26.81	130.8	0.629	
194.	10.42	34.74	0.45		26.70	139.9	400.	8.81	34.66	26.90	123.5	0.757	
229.	10.03	34.72	0.37		26.75	135.6	500.	7.95	34.61	26.99	116.2	0.878	
256.	9.87	34.71	0.37		26.77	134.2	600.	7.05	34.57	27.10	107.0	0.991	
282.	9.71	34.71	0.39		26.79	132.2	700.	6.17	34.56	27.20	97.5	1.094	
307.	9.52	34.70	0.32		26.82	130.3	800.	5.42	34.55	27.29	89.1	1.189	
408.	8.75	34.66	0.28		26.91	122.9	1000.	4.52	34.57	27.41	78.4	1.358	
511.	7.85	34.60	0.30		27.00	115.4	1200.	3.82	34.59	27.50	70.0	1.508	
612.	6.94	34.57	0.50		27.11	105.9							
815.	5.32	34.55	0.93		27.30	87.9							
1019.	4.46	34.57	1.08		27.42	77.6							
1220.	3.76	34.59	1.49		27.51	69.2							
1455.	3.13	34.62	1.71		27.59	61.0							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.17

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		11, STATION	27, 11-32N LAT, 148- 1W LONG, DEC. 14, 1964, 0600 G.C.T.						WEATHER 01		VIS. 6	CLOUD TYPE 8, COVER 7	DYN.DPTH.
DRY BULB 26.2		WET BULB 23.4	WIND SPEED 22, CIR. 06		BAR. 12								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
0. <sup>A</sup>	25.65	34.10	4.74	22.49	536.6	0.	25.65	34.10	22.49	536.6	0.000		
11.	25.64	34.10	4.74	22.49	536.8	10.	25.64	34.10	22.49	536.9	0.054		
20. <sup>A</sup>	25.58	34.11		22.51	534.6	20.	25.58	34.11	22.51	534.6	0.108		
30. <sup>A</sup>	25.40	34.13		22.58	528.3	30.	25.40	34.13	22.58	528.3	0.162		
52.	16.93	34.52	3.63	25.18	281.0	50.	17.80	34.49	24.95	303.3	0.245		
65.	14.83	34.46	1.98	25.61	240.4	75.	13.52	34.55	25.96	207.4	0.310		
78.	13.20	34.59	0.74	26.05	198.6	100.	12.31	34.71	26.33	173.1	0.358		
102.	12.29	34.72	0.24	26.33	172.4	150.	11.20	34.75	26.57	151.3	0.439		
128.	11.67	34.76	0.21	26.48	158.8	200.	10.58	34.74	26.66	143.0	0.514		
155.	11.10	34.75	0.31	26.58	150.0	250.	10.17	34.72	26.72	138.3	0.584		
179.	10.75	34.75	0.45	26.65	144.5	300.	9.80	34.71	26.78	133.8	0.653		
194.	10.63	34.74	0.45	26.66	143.5	400.	9.04	34.67	26.88	126.3	0.784		
229.	10.36	34.73	0.43	26.70	140.4	500.	8.18	34.62	26.97	119.0	0.908		
256.	10.12	34.72	0.40	26.73	137.7	600.	7.24	34.57	27.07	109.7	1.024		
282.	9.92	34.72	0.39	26.77	134.9	700.	6.41	34.55	27.17	100.8	1.130		
307.	9.76	34.71	0.37	26.79	133.5	800.	5.71	34.55	27.25	92.9	1.228		
408.	8.97	34.67	0.19	26.88	125.7	1000.	4.71	34.57	27.39	80.7	1.404		
511.	8.08	34.61	0.30	26.98	118.1	1200.	3.86	34.59	27.50	70.3	1.557		
614.	7.11	34.57	0.43	27.09	108.3								
816.	5.61	34.55	0.73	27.27	91.7								
1019.	4.63	34.57	1.04	27.40	79.7								
1203.	3.85	34.59	1.28	27.50	70.2								
1440.	3.27	34.61	1.55	27.57	63.4								

TEMPERATURE ERROR TERM AT 50. METERS IS 0.24

CROMWELL		11, STATION	28, 13- ON LAT, 147-58W LONG, DEC. 14, 1964, 1500 G.C.T.						WEATHER 02		VIS. 6	CLOUD TYPE 8, COVER 7	DYN.DPTH.
DRY BULB 24.8		WET BULB 22.2	WIND SPEED 25, DIR. 08		BAR. 12								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
0. <sup>A</sup>	25.22	33.89	4.89	22.46	539.2	0.	25.22	33.89	22.46	542.5	0.054		
9.	25.26	33.88	4.89	22.44	541.4	10.	25.29	33.88	22.43	542.5	0.109		
30. <sup>A</sup>	25.24	33.85		22.45	540.9	20.	25.42	33.87	22.38	547.5	0.164		
49.	22.99	34.11	4.72	23.28	462.2	30.	25.24	33.89	22.45	540.9	0.264		
74.	16.58	34.51	3.73	25.26	274.6	50.	22.75	34.13	23.37	454.1	0.415		
98.	12.60	34.32	2.46	25.96	207.4	75.	16.36	34.50	25.30	270.3	0.556		
122.	11.84	34.58	0.64	26.31	174.9	100.	12.47	34.34	26.00	203.9	0.707		
148.	11.27	34.67	0.41	26.49	158.7	150.	11.22	34.67	26.50	157.8	0.507		
170.	10.82	34.68	0.37	26.58	150.6	200.	10.56	34.70	26.64	145.6	0.583		
185.	10.66	34.69	0.37	26.61	147.5	250.	10.10	34.69	26.71	139.3	0.655		
219.	10.44	34.70	0.34	26.66	143.7	300.	9.72	34.68	26.77	135.0	0.724		
245.	10.14	34.69	0.37	26.71	140.0	400.	8.91	34.64	26.87	126.5	0.856		
270.	9.94	34.69	0.47	26.74	137.2	500.	8.01	34.57	26.96	119.4	0.980		
293.	9.77	34.68	0.32	26.76	135.6	600.	7.04	34.54	27.07	109.4	1.096		
391.	8.99	34.65	0.37	26.87	127.1	700.	6.23	34.53	27.17	100.4	1.202		
490.	8.11	34.58	0.39	26.95	120.4	800.	5.57	34.53	27.26	92.4	1.299		
507.	7.15	34.54	0.66	27.06	110.7	1000.	4.56	34.55	27.39	79.9	1.474		
783.	5.67	34.53	0.66	27.24	93.6	1200.	3.80	34.58	27.49	70.3	1.626		
979.	4.65	34.55	0.79	27.38	81.1								
1175.	3.92	34.58	1.18	27.48	71.5								
1472.	3.06	34.61	1.65	27.59	61.0								

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

CROMWELL		11, STATION	29, 14-30N LAT, 147-59W LONG, DEC. 15, 1964, 0000 G.C.T.						WEATHER 02		VIS. 7	CLOUD TYPE 8, COVER 1	DYN.DPTH.
DRY BULB 26.7		WET BULB 22.5	WIND SPEED 21, DIR. 07		BAR. 12								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	TEMP.	SAL.	DYN.DPTH.
0. <sup>A</sup>	25.42	34.00	4.77	22.48	537.1	0.	25.42	34.00	22.48	537.5	0.000		
10.	25.42	34.00	4.78	22.48	537.5	10.	25.42	34.00	22.48	537.5	0.054		
30. <sup>A</sup>	25.42	34.00		22.48	538.3	20.	25.62	34.00	22.48	538.0	0.108		
51.	25.39	34.01	4.76	22.50	537.5	30.	25.42	34.00	22.48	538.3	0.162		
77.	21.70	34.70	4.69	24.09	385.8	50.	25.42	34.00	22.48	538.8	0.271		
102.	19.55	34.80	4.67	24.75	324.4	75.	22.03	34.64	23.96	398.6	0.389		
128.	15.71	34.50	3.71	25.45	257.9	100.	19.72	34.81	24.71	328.0	0.481		
153.	12.90 <sup>a</sup>	34.32	2.48	25.91	214.5	150.	13.17	34.33	25.86	219.0	0.618		
177.	11.70	34.47	1.10	26.25	181.8	200.	10.52	34.43	26.44	164.2	0.715		
193.	10.72	34.42	1.46	26.39	168.6	250.	9.98	34.55	26.62	147.8	0.794		
227.	10.20	34.53	0.79	26.57	152.4	300.	9.59	34.60	26.73	139.0	0.866		
255.	9.94	34.55	0.62	26.63	147.2	400.	8.51	34.57	26.88	125.3	0.999		
280.	9.76	34.58	0.50	26.68	142.5	500.	7.61	34.55	27.00	115.2	1.121		
305.	9.55	34.60	0.31	26.74	138.1	600.	6.79	34.53	27.10	106.4	1.233		
406.	8.44	34.57	0.38	26.89	124.7	700.	6.00	34.52	27.19	97.7	1.336		
509.	7.54	34.55	0.37	27.01	114.4	800.	5.32	34.52	27.28	90.0	1.431		
610.	6.71	34.53	0.49	27.11	105.5	1000.	4.44	34.55	27.40	78.9	1.601		
813.	5.24	34.52	0.61	27.29	89.0	1200.	3.79	34.58	27.49	70.3	1.753		
1016.	4.39	34.55	1.04	27.41	78.1								
1217.	3.74	34.58	1.23	27.50	69.7								
1475.	2.97	34.61	1.62	27.60	60.0								

FROM BY DATA  
\*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 24.0	11, STATION WET BULB 21.8	30, 16° ON LAT, 147-59W LONG, DEC. 15, 1964, 1000 G.C.T.						VIS. 7	CLOUD TYPE 8, COVER 9			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH*
0.	25.23	33.92	4.86		22.48	537.3	0.	25.23	33.92	22.48	537.3	0.000
10.	25.24	33.92	4.84		22.48	538.0	10.	25.24	33.92	22.48	538.0	0.054
30. <sup>Δ</sup>	25.23	33.92			22.48	538.5	20.	25.26	33.88	22.44	541.4	0.109
52.	24.89	34.58	4.95		23.08	481.9	30.	25.23	33.92	22.48	538.5	0.163
76.	22.29	34.85	5.31		24.04	390.7	50.	24.97	34.51	23.01	488.9	0.266
101.	20.62	34.96	5.14		24.59	339.8	75.	22.61	34.85	24.00	394.3	0.378
128.	19.42	34.98	4.88		24.92	309.1	100.	20.67	34.96	24.57	361.2	0.470
153.	17.09	34.65	4.42		25.24	278.4	150.	17.39	34.70	25.21	281.9	0.627
177.	15.07	34.40	4.09		25.51	253.0	200.	12.54	34.25	25.93	213.6	0.752
192.	13.26	34.25	3.21		25.78	227.6	250.	10.77	34.53	26.47	162.7	0.847
227.	11.04	34.41	1.63		26.33	175.6	300.	10.14	34.57	26.62	149.6	0.926
253.	10.76	34.54	0.38		26.48	161.8	400.	8.84	34.58	26.84	129.9	1.067
279.	10.31	34.55	0.64		26.57	153.9	500.	7.82	34.55	26.97	118.2	1.192
304.	10.11	34.58	0.73		26.62	148.8	600.	6.97	34.53	27.07	109.0	1.307
405.	8.77	34.58	0.24		26.85	129.1	700.	6.21	34.52	27.17	100.4	1.413
508.	7.75	34.55	0.30		26.98	117.5	800.	5.54	34.52	27.25	92.8	1.510
608.	6.91	34.53	0.34		27.08	108.3	1000.	4.57	34.54	27.38	81.1	1.686
811.	5.47	34.52	0.60		27.26	92.0	1200.	3.84	34.56	27.47	72.3	1.842
1013.	4.52	34.54	0.82		27.39	80.5						
1215.	3.79	34.56	1.09		27.48	71.7						
1483.	2.93	34.60	0.88		27.59	60.3						

CROMWELL DRY BULB 24.0	11, STATION WET BULB 21.2	31, 17-30N LAT, 147-59W LONG, DEC. 15, 1964, 1800 G.C.T.						VIS. 7	CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH*
0.	24.78	34.03	4.84		22.70	516.4	0.	24.78	34.03	22.70	516.4	0.000
10.	24.79	34.03	4.94		22.69	517.0	10.	24.79	34.03	22.69	517.0	0.052
30. <sup>Δ</sup>	24.77	34.03			22.70	517.2	20.	24.80	34.00	22.67	520.0	0.104
51.	24.52	34.61	4.94		23.21	469.1	30.	24.77	34.03	22.70	517.2	0.157
77.	21.99	34.74	5.27		24.04	390.7	50.	24.55	34.58	23.18	472.1	0.256
102.	20.59	34.93	5.20		24.57	341.2	75.	22.21	34.74	23.98	396.4	0.366
127.	19.00	34.85	4.68		24.93	308.1	100.	20.69	34.92	24.54	344.5	0.459
154.	16.76	34.63	4.16		25.31	272.4	150.	17.13	34.67	25.25	277.8	0.616
178.	16.13	34.34	4.13		25.67	238.0	200.	12.35	34.27	25.97	209.2	0.738
194.	12.74	34.26	3.12		25.89	216.9	250.	10.59	34.45	26.44	165.7	0.833
228.	11.10	34.38	1.72		26.29	178.9	300.	9.78	34.50	26.62	148.9	0.912
256.	10.49	34.46	1.10		26.47	163.1	400.	8.45	34.50	26.84	129.5	1.053
281.	9.96	34.48	0.92		26.57	153.2	500.	7.28	34.48	26.99	115.5	1.176
306.	9.74	34.51	0.63		26.63	147.9	600.	6.30	34.46	27.11	104.8	1.280
408.	8.33	34.50	0.32		26.85	128.2	700.	5.62	34.47	27.20	96.3	1.389
510.	7.18	34.48	0.40		27.01	114.4	800.	5.11	34.49	27.28	89.2	1.483
612.	6.20	34.46	0.53		27.12	103.7	1000.	4.38	34.53	27.40	79.1	1.653
816.	5.05	34.50	0.60		27.29	88.1	1200.	3.82	34.57	27.48	71.2	1.806
964.	4.42	34.54	0.90		27.40	78.8						
1019.	4.37	34.53	0.75		27.40	79.4						
1193.	3.83	34.57	1.09		27.48	71.3						
1200. <sup>**</sup>	3.82 <sup>**</sup>	34.57 <sup>**</sup>			27.48	71.2						

CROMWELL DRY BULB 23.9	11, STATION WET BULB 19.2	32, 18-55N LAT, 147-56W LONG, DEC. 16, 1964, 0200 G.C.T.						VIS. 7	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH*
0.	24.29	34.02	4.93		22.84	503.1	0.	24.29	34.02	22.84	503.1	0.000
9.	24.28	34.02	4.95		22.84	503.1	10.	24.28	34.02	22.84	503.1	0.051
30. <sup>Δ</sup>	24.34	34.10			22.88	499.9	20.	24.31	34.05	22.86	501.9	0.101
50. <sup>Δ</sup>	24.38	34.20			22.95	494.6	30.	24.34	34.10	22.88	499.9	0.152
73.	22.55	34.59	5.25		23.77	416.4	50.	24.38	34.20	22.95	494.6	0.252
96.	20.75	34.76	5.08		24.40	357.4	75.	22.38	34.61	23.84	410.3	0.366
121.	19.53	34.78*			24.74	326.0	100.	20.55	34.77	24.46	351.5	0.462
145.	17.76	34.70	4.28		25.12	290.0	150.	17.13	34.63	25.22	280.6	0.621
169.	14.68	34.36	3.24		25.57	247.5	200.	12.43	34.24	25.93	212.9	0.745
183.	13.37	34.26	3.30		25.76	228.8	250.	10.13	34.24	26.36	173.1	0.843
216.	11.82	34.26	2.53		26.07	200.3	300.	8.39	34.11	26.54	155.6	0.926
243.	10.66	34.29	2.34		26.30	178.2	400.	6.99	34.23	26.83	128.8	1.069
266.	9.02	34.12	3.69		26.45	164.3	500.	6.28	34.32	27.00	113.3	1.191
291.	8.55	34.11	3.41		26.51	158.2	600.	5.66	34.39	27.14	101.3	1.300
386.	7.12	34.21	1.65		26.80	131.5	700.	5.16	34.45	27.24	92.0	1.397
484.	6.39	34.31	0.82		26.98	115.6	800.	4.75	34.49	27.32	84.9	1.487
580.	5.77	34.38	0.66		27.11	103.5	1000.	4.01	34.54	27.44	74.2	1.648
771.	4.86	34.48	0.75		27.30	86.7	1200.	3.40	34.57	27.53	65.8	1.789
963.	4.15	34.53	0.92		27.42	76.2						
1103.	3.65	34.56	1.09		27.49	69.1						
1328.	3.10	34.59	1.35		27.57	62.0						

\*FROM BY DATA  
\*\*INTERPOLATED DATA  
\*\*\*EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL	11, STATION	33, 20-30N LAT, 147-58W LONG, DEC. 16, 1964, 1200 G.C.T.	DRY BULB 23.1	WET BULB 19.7	WIND SPEED 20, DIR. 09	BAR. 16	WEATHER 01	VIS. 6	CLOUD TYPE 8, COVER 7	DYN.DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.18	34.06	5.04		22.90	497.1	0.	24.18	34.06	22.90	497.1	0.000	
10.	24.18	34.06	5.06		22.90	497.5	10.	24.18	34.06	22.90	497.5	0.050	
50. <sup>A</sup>	24.14	34.40			23.17	473.3	20.	24.17	34.12	22.95	493.2	0.100	
77.	24.11	34.60	4.92		23.33	459.1	30.	24.16	34.20	23.01	487.7	0.149	
102.	21.61	34.78	5.32		24.18	378.6	50.	24.14	34.40	23.17	473.3	0.246	
128.	20.50	34.84	5.21		24.53	346.3	75.	24.16	34.59	23.30	461.5	0.364	
154.	19.97	35.05	5.12		24.83	318.6	100.	21.83	34.77	24.11	385.2	0.471	
178.	18.81	34.95	4.67		25.05	298.0	150.	20.06	35.02	24.78	322.6	0.649	
193.	18.26	34.95	4.86		25.19	285.3	200.	17.82	34.88	25.24	280.1	0.801	
227.	15.49	34.51	4.60		25.50	255.4	250.	12.86	34.23	25.84	223.0	0.928	
254.	12.45	34.19	4.70		25.89	218.1	300.	10.72	34.11	26.16	193.4	1.033	
280.	11.40	34.14	4.73		26.05	203.0	400.	7.48	34.07	26.64	147.3	1.205	
304.	10.59	34.11	4.62		26.18	191.6	500.	6.05	34.19	26.93	119.9	1.339	
405.	7.34	34.07	2.85		26.66	145.3	600.	5.52	34.35	27.12	103.1	1.452	
509.	5.99	34.21	1.06		26.95	118.0	700.	5.09	34.43	27.23	92.7	1.551	
611.	5.49	34.36	0.69		27.13	101.7	800.	4.69	34.47	27.31	85.8	1.641	
813.	4.64	34.47	0.86		27.32	85.1	1000.	4.01	34.52	27.42	75.7	1.805	
1016.	3.96	34.52	1.17		27.43	75.1	1200.	3.49	34.57	27.51	67.5	1.950	
1219.	3.44	34.57	1.27		27.52	66.8							
1443.	2.88	34.59	1.50		27.59	60.2							

CROMWELL	11, STATION	34, 22- 2N LAT, 147-58W LONG, DEC. 16, 1964, 2100 G.C.T.	DRY BULB 23.0	WET BULB 18.3	WIND SPEED 18, DIR. 09	BAR. 17	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 3	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.80	34.50	5.02		23.34	454.6	0.	23.80	34.50	23.34	454.6	0.000
10.	23.84	34.50	5.04		23.33	456.1	10.	23.84	34.50	23.33	456.1	0.046
20. <sup>A</sup>	23.84	34.50			23.33	456.5	20.	23.84	34.50	23.33	456.5	0.092
30. <sup>A</sup>	23.85	34.50			23.33	457.2	30.	23.85	34.50	23.33	457.2	0.138
51.	24.34	35.00	4.97		23.56	435.8	50.	24.33	34.97	23.54	437.4	0.228
76.	23.00	35.15	5.29		24.07	388.4	75.	23.07	35.15	24.05	390.4	0.332
100.	22.00	35.19	5.21		24.38	359.3	100.	22.00	35.19	24.38	359.3	0.427
126.	20.81	35.14	4.74		24.67	332.6	150.	19.87	35.08	24.88	313.4	0.596
151.	19.82	35.08	4.52		24.89	312.6	200.	16.44	34.55	25.32	272.9	0.744
175.	18.16	34.82	4.31		25.11	291.7	250.	12.96	34.28	25.86	221.4	0.868
189.	17.27	34.63	4.22		25.18	285.1	300.	10.98	34.15	26.14	195.3	0.974
224.	14.62	34.43	4.39		25.63	242.7	400.	7.76	34.07	26.60	151.3	1.148
251.	12.90	34.27	4.63		25.87	220.7	500.	6.05	34.11	26.87	126.0	1.288
276.	11.92	34.18	4.59		25.99	209.5	600.	5.26	34.23	27.06	108.1	1.407
300.	10.98	34.15	4.24		26.14	195.3	700.	4.87	34.35	27.20	95.5	1.509
400.	7.76	34.07	3.11		26.60	151.3	800.	4.64	34.45	27.30	86.4	1.601
499.	6.06	34.11	1.63		26.86	126.2	1000.	4.04	34.52	27.42	75.9	1.766
599.	5.26	34.23	0.86		27.06	108.3	1200.	3.49	34.56	27.51	68.1	1.912
798.	4.65	34.45	0.79		27.30	86.6						
998.	4.05	34.52	1.12		27.42	76.0						
1195.	3.49	34.55	1.20		27.50	68.7						
1469.	2.86	34.59	1.50		27.59	60.1						

CROMWELL	11, STATION	35, 23-30N LAT, 147-56W LONG, DEC. 17, 1964, 0500 G.C.T.	DRY BULB 22.9	WET BULB 18.6	WIND SPEED 13, DIR. 10	BAR. 15	WEATHER 01	VIS. 7	CLOUD TYPE 1, COVER 1	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELT	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.13	35.20	5.07		24.07	385.5	0.	23.13	35.20	24.07	385.5	0.000
9.	23.12	35.20	5.04		24.07	385.6	10.	23.12	35.20	24.07	385.6	0.039
30. <sup>A</sup>	23.06	35.23			24.11	382.6	20.	23.10	35.21	24.08	384.8	0.078
50. <sup>A</sup>	22.84	35.30			24.23	372.2	30.	23.06	35.23	24.11	382.6	0.116
73.	22.74	35.31	5.06		24.26	369.7	50.	22.84	35.30	24.23	372.2	0.192
98.	21.19	35.27	5.08		24.67	332.0	75.	22.63	35.31	24.29	366.9	0.285
122.	20.35	35.23	4.92		24.86	314.1	100.	21.11	35.27	24.69	330.1	0.373
147.	19.58	35.13	4.76		24.99	302.8	150.	19.51	35.12	25.00	301.8	0.532
170.	18.95	35.05	4.81		25.09	293.9	200.	16.97	34.74	25.34	270.5	0.677
185.	18.19	34.93	4.73		25.19	284.8	250.	13.46	34.31	25.78	229.0	0.803
217.	15.50	34.53	4.66		25.52	253.9	300.	11.18	34.13	26.08	200.5	0.911
244.	13.81	34.34	4.69		25.74	233.3	400.	8.50	34.06	26.48	163.4	1.094
268.	12.50	34.22	4.59		25.91	217.2	500.	6.45	34.06	26.77	135.4	1.245
293.	11.42	34.14	4.61		26.05	203.7	600.	5.43	34.14	26.96	117.3	1.373
390.	8.75	34.06	4.24		26.44	166.8	700.	4.88	34.26	27.12	102.4	1.484
488.	6.62	34.05	2.30		26.74	138.0	800.	4.57	34.38	27.25	91.0	1.582
585.	5.54	34.12	1.24		26.94	119.8	1000.	4.05	34.50	27.41	77.5	1.752
780.	4.63	34.36	0.61		27.23	92.8	1200.	3.51	34.56	27.51	68.2	1.900
973.	4.13	34.49	0.94		27.39	79.0						
1168.	3.55	34.54	1.22		27.49	69.9						
1463.	2.93	34.58	1.49		27.58	61.6						

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL		11, STATION		36, 25- ON LAT, 147-59W LONG, DEC. 17, 1964, 1400 G.C.T.													
DRY BULB 21.5		WET BULB 18.0		WIND SPEED 11, DIR. 14		BAR. 15		WEATHER 01		VIS. 7		CLOUD		TYPE 8, COVER 6			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	22.88	35.27	5.01	24.19	373.6	0.	22.88	35.27	24.19	373.6	0.000						
9.	22.88	35.26	5.10	24.19	374.6	10.	22.88	35.26	24.18	374.7	0.038						
30. <sup>A</sup>	22.88	35.26		24.19	375.4	20.	22.88	35.26	24.18	375.2	0.075						
50. <sup>A</sup>	22.88	35.26		24.19	376.2	30.	22.88	35.26	24.19	375.4	0.113						
74.	22.20	35.34	5.10	24.64	352.9	50.	22.88	35.26	24.19	376.4	0.189						
98.	20.93	35.25	5.12	24.72	326.7	75.	22.15	35.34	24.45	351.7	0.281						
123.	19.96	35.18	5.04	24.93	307.9	100.	20.85	35.24	24.74	325.0	0.366						
148.	18.94	35.06	4.88	25.10	292.2	150.	18.88	35.05	25.11	291.4	0.521						
172.	18.04	34.92	4.91	25.22	281.5	200.	16.13	34.63	25.45	259.6	0.660						
187.	16.98	34.75	4.84	25.35	269.7	250.	13.13	34.33	25.87	220.7	0.781						
220.	14.89	34.49	4.95	25.62	243.9	300.	11.57	34.24	26.10	198.9	0.887						
247.	13.26	34.34	5.08	25.85	222.5	400.	9.50	34.12	26.37	174.5	1.073						
271.	12.40	34.29	5.02	25.98	210.2	500.	7.13	34.02	26.65	147.5	1.238						
296.	11.66	34.25	4.99	26.09	200.1	600.	5.62	34.08	26.89	124.0	1.375						
394.	9.65	34.13	4.89	26.35	176.1	700.	4.81	34.21	27.09	105.6	1.491						
494.	7.25	34.02	3.41	26.63	149.1	800.	4.42	34.34	27.24	91.8	1.591						
592.	5.70	34.07	1.74	26.88	125.6	1000.	3.99	34.49	27.40	77.8	1.762						
788.	4.46	34.33	0.62	27.23	93.0	1200.	3.49	34.56	27.51	68.2	1.910						
985.	4.03	34.48	1.31	27.39	78.6												
1182.	3.50	34.54	1.18	27.49	69.4												
1430.	2.93	34.58	1.48	27.58	61.4												
CROMWELL		11, STATION		37, 26-28N LAT, 148- OW LONG, DEC. 17, 1964, 2200 G.C.T.													
DRY BULB 22.3		WET BULB 18.8		WIND SPEED 09, DIR. 15		BAR. 14		WEATHER 03		VIS. 7		CLOUD		TYPE 8, COVER 8			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	22.34	35.28	5.00	24.35	358.2	0.	22.34	35.28	24.35	358.2	0.000						
10. <sup>A</sup>	22.30	35.29	5.10	24.37	356.7	10.	22.30	35.29	24.37	356.7	0.036						
30. <sup>A</sup>	22.30	35.29		24.37	357.5	20.	22.29	35.29	24.38	356.9	0.072						
50. <sup>A</sup>	22.28	35.30		24.39	357.0	30.	22.30	35.29	24.37	357.5	0.108						
76.	22.07	35.39	5.05	24.51	345.9	50.	22.28	35.30	24.39	357.0	0.180						
101.	21.48	35.38	4.99	24.67	331.8	75.	22.08	35.39	24.51	346.4	0.269						
127.	19.91	35.15	5.11	24.92	308.9	100.	21.52	35.38	24.66	332.5	0.354						
153.	18.67	35.00	4.91	25.12	290.1	150.	18.82	35.02	25.10	292.3	0.511						
176.	17.16	34.77	4.58	25.32	272.0	200.	15.68	34.57	25.51	254.2	0.649						
192.	16.24	34.64	4.59	25.43	261.3	250.	13.00	34.28	25.85	222.0	0.769						
226.	13.98	34.38	4.79	25.73	233.3	300.	11.57	34.23	26.09	199.8	0.876						
253.	12.90	34.27	4.79	25.87	220.8	400.	9.36	34.13	26.40	171.6	1.063						
278.	11.97	34.21	4.82	26.00	208.2	500.	7.10	34.04	26.67	145.4	1.223						
304.	11.52	34.24	4.97	26.11	198.4	600.	5.43	34.03	26.88	124.9	1.359						
405. <sup>c</sup>	9.24	34.12	4.69	26.41	170.4	700.	4.65	34.15	27.07	107.6	1.477						
475. <sup>c</sup>	7.63	34.06	4.24	26.61	151.3	800.	4.28	34.29	27.21	93.9	1.579						
614. <sup>c</sup>	5.25	34.04	1.94	26.91	122.4	1000.	3.66	34.45	27.40	76.8	1.752						
760. <sup>c</sup>	4.43	34.25	0.55	27.17	98.3	1200.	3.29	34.53	27.50	68.0	1.898						
1216.	3.27	34.53	1.20	27.51	67.7	1500.	2.72	34.59	27.61	50.4	2.091						
1519.	2.71	34.59	1.80	27.61	58.6												
CROMWELL		11, STATION		38, 25- 4N LAT, 151- 6W LONG, DEC. 18, 1964, 1600 G.C.T.													
DRY BULB 22.0		WET BULB 20.2		WIND SPEED 15, DIR. 19		BAR. 11		WEATHER 51		VIS.		CLOUD		TYPE , COVER 9			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	23.61	34.92	23.72	419.0	0.	23.61	34.92	23.72	419.2	0.000							
10. <sup>A</sup>	23.63	34.93	23.72	419.2	10.	23.63	34.92	23.71	420.4	0.085							
30. <sup>A</sup>	23.60	34.93	23.73	419.2	20.	23.63	34.92	23.73	419.2	0.127							
50. <sup>A</sup>	23.48	35.15	23.93	400.7	30.	23.60	34.93	23.73	419.2	0.308							
78.	23.04	35.28	24.15	380.2	50.	23.48	35.15	23.93	400.7	0.209							
103.	21.34	35.22	24.59	339.8	75.	23.13	35.28	24.12	382.9	0.308							
128.	20.59	35.21	24.78	321.9	100.	21.55	35.23	24.54	344.5	0.400							
154.	19.53	35.14	25.01	301.1	150.	19.70	35.16	24.98	304.1	0.563							
179.	18.60	34.99	25.13	290.1	200.	17.17	34.77	25.32	273.0	0.709							
204.	16.89	34.73	25.35	269.7	250.	14.32	34.40	25.68	239.3	0.838							
229.	15.68	34.58	25.52	254.5	300.	11.75	34.19	26.03	206.2	0.950							
254.	14.05	34.37	25.71	236.2	400.	9.14	34.08	26.40	171.5	1.141							
280.	12.48	34.24	25.93	215.6	500.	6.87	34.03	26.70	143.0	1.299							
305.	11.60	34.18	26.05	204.3	600.	5.66	34.10	26.93	120.5	1.432							
406.	9.01	34.08	26.42	169.7	700.	4.73	34.22	27.11	103.8	1.546							
509.	6.69	34.03	26.72	140.7	800.	4.35	34.33	27.24	91.5	1.645							
610.	5.36	34.11	26.95	118.6	1000.	3.94	34.47	27.40	78.1	1.816							
813.	4.33	34.35	27.26	90.2	1200.	3.48	34.54	27.49	69.6	1.966							
1015.	3.92	34.48	27.40	77.5	1500.	2.89	34.58	27.58	61.4	2.165							
1216.	3.44	34.54	27.50	69.0	2000.	2.15	34.63	27.68	51.4	2.452							
1521.	2.85	34.58	27.59	61.0	2500.	1.79	34.67	27.74	45.9	2.700							
2016.	2.13	34.63	2.02	27.69	51.2	3000.	1.59	34.69	27.78	43.4	2.928						
2519.	1.78	34.67	2.44	27.75	45.8	400											

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA													
CROMWELL DRY BULB 23.0	11, STATION WET BULB 21.3	39, 24-57N LAT, 154- W LONG, DEC. 19, 1964, 0900 G.C.T.		WIND SPEED 18, DIR. 16	BAR. 11	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 8	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.13	35.21	5.02	24.08	384.8	0.	23.13	35.21	24.08	384.8	0.000										
10.	23.16	35.21	5.02	24.07	386.0	10.	23.16	35.21	24.07	386.0	0.039										
30. <sup>A</sup>	23.06	35.27		24.14	379.7	20.	23.13	35.24	24.10	383.6	0.078										
50.	22.84	35.30	4.97	24.23	372.2	30.	23.06	35.27	24.14	379.7	0.116										
75.	21.18	35.21	4.78	24.62	335.3	50.	22.84	35.30	24.23	372.2	0.192										
100.	20.24	35.17	4.74	24.85	314.9	75.	21.18	35.21	24.62	335.3	0.281										
125.	18.87	34.99	4.65	25.07	294.7	100.	20.24	35.17	24.85	314.9	0.363										
150.	18.10	34.89	4.69	25.18	284.4	150.	18.10	34.89	25.18	284.4	0.514										
174.	16.98	34.74	4.74	25.34	270.0	200.	15.39	34.52	25.54	251.5	0.649										
189.	15.93	34.60	4.69	25.47	257.3	250.	12.86	34.28	25.88	219.4	0.768										
223.	14.39	34.40	4.69	25.66	240.1	300.	11.15	34.17	26.12	197.0	0.873										
249.	12.91	34.28	4.78	25.87	220.1	400.	8.49	34.07	26.49	162.4	1.054										
274.	11.88	34.22	4.76	26.03	205.8	500.	6.32	34.03	26.77	135.5	1.204										
299.	11.18	34.17	4.72	26.12	197.4	600.	5.11	34.09	26.97	116.5	1.332										
397.	8.57	34.07	3.88	26.48	163.4	700.	4.53	34.22	27.13	100.9	1.441										
497.	6.37	34.03	2.55	26.76	136.2	800.	4.26	34.36	27.27	88.8	1.537										
596.	5.14	34.09	1.37	26.96	117.1	1000.	3.81	34.49	27.42	75.2	1.703										
793.	4.28	34.35		27.26	89.5	1200.	3.40	34.56	27.52	67.0	1.847										
992.	3.83	34.49	1.09	27.42	75.5																
1190.	3.42	34.54	1.29	27.50	68.5																
1490.	2.83	34.58	1.54	27.59	60.6																

CROMWELL DRY BULB 21.8	11, STATION WET BULB 19.4	40, 25- ON LAT, 157- OW LONG, DEC. 19, 1964, 2300 G.C.T.		WIND SPEED 12, DIR. 24	BAR. 07	WEATHER 15	VIS. 6	CLOUD TYPE 8, COVER 9	DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.24	35.08		23.95	397.2	0.	23.24	35.08	23.95	397.2	0.000										
9.	23.26	35.11		23.96	395.9	10.	23.26	35.11	23.96	396.0	0.040										
30. <sup>A</sup>	23.26	35.11		23.96	396.7	20.	23.27	35.11	23.96	396.6	0.080										
50. <sup>A</sup>	23.24	35.22		24.05	389.0	30.	23.26	35.11	23.96	396.7	0.120										
76.	23.00	35.30		24.18	317.6	50.	23.24	35.22	24.05	389.0	0.199										
101.	22.35	35.30		24.37	360.8	75.	23.02	35.30	24.18	378.1	0.296										
125.	20.34	35.12		24.78	321.9	100.	22.39	35.30	24.36	361.8	0.389										
151.	19.10	34.99		25.01	301.3	150.	19.14	35.00	25.00	301.9	0.556										
176.	17.43	34.79		25.27	276.8	200.	16.12	34.63	25.45	259.7	0.698										
191.	16.54	34.68		25.40	265.0	250.	13.76	34.38	25.78	229.6	0.821										
225.	15.05	34.51		25.60	246.0	300.	11.53	34.19	26.06	202.5	0.930										
252.	13.66	34.37		25.75	228.3	400.	9.04	34.10	26.43	168.6	1.117										
278.	12.56	34.26		25.93	215.6	500.	6.73	34.01	26.70	142.5	1.274										
302.	11.44	34.18		26.08	201.3	600.	5.45	34.08	26.91	121.9	1.408										
403.	8.99	34.10		26.44	167.9	700.	4.67	34.18	27.09	105.5	1.523										
503.	6.67	34.01		26.71	141.8	800.	4.21	34.30	27.23	92.5	1.623										
602.	5.43	34.08		26.92	121.6	1000.	3.81	34.47	27.40	77.1	1.794										
802.	4.20	34.30		27.23	92.3	1200.	3.29	34.53	27.50	67.9	1.941										
1004.	3.81	34.47		27.41	76.9																
1204.	3.28	34.53		27.51	67.7																
1433.	2.76	34.58		27.59	59.6																

CROMWELL DRY BULB 22.6	11, STATION WET BULB 20.6	41, 23-30N LAT, 157- OW LONG, DEC. 20, 1964, 0800 G.C.T.		WIND SPEED 06, CIR. 21	BAR. 11	WEATHER 15	VIS. 6	CLOUD TYPE 8, COVER 5	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.35	35.12		23.94	397.3	0.	23.35	35.12	23.93	398.7	0.040										
10.	23.41	35.13		23.93	398.7	10.	23.41	35.13	23.94	398.3	0.080										
30. <sup>A</sup>	23.41	35.16		23.96	397.3	20.	23.42	35.14	23.94	398.3	0.120										
50. <sup>A</sup>	23.41	35.18		23.97	396.6	30.	23.41	35.16	23.96	397.3	0.200										
75. <sup>A</sup>	23.20	35.23		24.07	388.2	50.	23.41	35.18	23.97	396.6	0.396										
100.	22.93	35.26		24.17	379.5	75.	23.20	35.23	24.07	388.2	0.596										
124.	20.72	35.14		24.70	330.2	100.	22.93	35.26	24.17	379.5	0.396										
149.	19.62	35.04		24.91	310.4	150.	19.58	35.04	24.92	309.7	0.569										
174.	18.26	34.89		25.14	289.0	200.	16.23	34.67	25.46	259.3	0.713										
188.	17.04	34.75		25.33	271.1	250.	13.19	34.36	25.88	219.3	0.834										
222.	14.92	34.54		25.65	240.9	300.	11.86	34.25	26.05	204.0	0.940										
247.	13.33	34.38		25.87	220.9	400.	8.89	34.10	26.45	166.6	1.127										
273.	12.35	34.28		25.98	210.1	500.	6.73	34.03	26.72	141.0	1.282										
298.	11.91	34.25		26.04	204.7	600.	5.30	34.13	26.97	116.4	1.412										
397.	8.97	34.10		26.44	167.4	700.	4.67	34.25	27.14	100.6	1.522										
496.	6.80	34.03		26.70	142.0	800.	4.41	34.37	27.26	89.6	1.618										
594.	5.35	34.12		26.96	117.5	1000.	3.86	34.51	27.43	74.8	1.785										
789.	4.45	34.36		27.25	90.7	1200.	3.31	34.57	2												

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL	11, STATION	42, 22-	ON LAT, 157° 2W LONG, DEC. 20, 1964, 1700 G.C.T.	DRY BULB	23.9	WET BULB	21.5	WIND SPEED	12,	DIR.	23	BAR. 10	WEATHER 02	VIS. 6	CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.30	35.00			23.57	432.7	0.	24.30	35.00	23.57	432.7	0.000			
9.	24.32	35.00			23.57	433.6	10.	24.32	35.00	23.57	433.7	0.044			
30. <sup>A</sup>	24.32	35.00			23.57	434.4	20.	24.32	35.00	23.57	434.2	0.087			
50. <sup>A</sup>	24.32	35.00			23.57	435.2	30.	24.32	35.00	23.57	434.4	0.131			
73.	23.63	35.19			23.91	402.9	50.	24.32	35.00	23.57	435.2	0.219			
96.	22.67	35.20			24.20	376.6	75.	23.55	35.19	23.94	400.4	0.324			
120.	21.90	35.25			24.46	353.1	100.	22.52	35.21	24.25	372.1	0.421			
145.	21.54	35.31			24.60	340.1	150.	21.53	35.33	24.62	338.9	0.600			
167.	21.06	35.29			24.72	329.7	200.	18.44	34.92	25.12	292.3	0.759			
181.	19.67	35.08			24.93	309.9	250.	14.58	34.46	25.67	240.3	0.894			
213.	17.69	34.83			25.24	281.2	300.	12.12	34.26	26.01	207.9	1.007			
237.	15.67	34.59			25.53	253.0	400.	9.00	34.12	26.45	166.5	1.196			
260.	13.83	34.38			25.76	231.2	500.	6.73	34.19	26.84	129.3	1.345			
283.	12.76	34.31			25.93	215.9	600.	6.02	34.28	27.00	114.7	1.468			
375.	9.82	34.12			26.32	179.3	700.	5.51	34.37	27.14	102.0	1.578			
470.	7.12	34.17			26.77	135.8	800.	5.06	34.44	27.25	92.4	1.676			
564.	6.25	34.24			26.94	120.0	1000.	4.23	34.50	27.38	80.0	1.850			
752.	5.30	34.42			27.20	96.5	1200.	3.60	34.54	27.49	70.5	2.003			
943.	4.43	34.48			27.35	83.1									
1136.	3.83	34.53			27.45	73.8									
1437.	3.03	34.58			27.57	62.6									

<sup>A</sup>FROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 12

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		12, STATION	1, 20-34N LAT, 157-15W LONG, JAN.	6, 1965, 0600 G.C.T.									
DRY BULB	24.0	WET BULB	21.0	WIND SPEED	16, DIR.	19	BAR. 11	WEATHER 02	VIS.	CLOUD TYPE	, COVER	DYN.DPTH.	
DEPTH	TEMP.	SAL.	GXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.60	34.79			23.32	456.4	0.	24.60	34.79	23.32	456.4	0.000	
10.	24.62	34.78			23.31	458.1	10.	24.62	34.78	23.31	458.1	0.046	
31.	24.59	34.81			23.34	455.9	20.	24.65	34.79	23.31	459.0	0.092	
75.	22.30	35.36			24.20	375.8	30.	24.60	34.81	23.34	456.4	0.138	
100.	21.22	35.09			24.52	345.9	50.	23.76	34.92	23.67	425.2	0.227	
124.	19.25	34.97			24.95	305.4	75.	22.30	35.06	24.20	375.8	0.328	
150.	18.30	34.87			25.12	290.6	100.	21.22	35.09	24.52	345.9	0.419	
174.	17.47	34.78			25.25	278.4	150.	18.30	34.87	25.12	290.6	0.579	
180.	16.80	34.71			25.36	268.3	200.	15.84	34.60	25.50	255.3	0.717	
222.	15.18	34.53			25.59	247.2	250.	12.83	34.30	25.30	217.2	0.836	
250.	12.83	34.30			25.90	217.2	300.	10.94	34.19	26.17	191.8	0.939	
275.	11.91	34.24			26.04	204.9	400.	8.50	34.13	26.54	157.9	1.116	
299.	10.97	34.19			26.17	192.2	500.	6.55	34.19	26.87	126.6	1.259	
398.	8.55	34.13			26.53	158.7	600.	5.74	34.29	27.05	109.8	1.379	
496.	6.60	34.19			26.86	127.5	700.	5.25	34.37	27.17	98.9	1.484	
598.	5.75	34.29			27.04	110.1	800.	4.90	34.43	27.26	91.1	1.580	
797.	4.91	34.63			27.26	91.3	1000.	4.15	34.51	27.40	78.1	1.751	
968.	4.26	34.50			27.38	79.8	1200.	3.59	34.54	27.48	70.6	1.902	
1117.	3.80	34.53			27.45	73.3							
1346.	3.30	34.54			27.51	68.2							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.14

TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

CROMWELL		12, STATION	2, 19- IN LAT, 157- OW LONG, JAN.	6, 1965, 1800 G.C.T.									
DRY BULB		24.2	WET BULB	22.0	WIND SPEED	18, DIR.	08	BAR. 11	WEATHER 02	VIS.	5	CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	GXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.78	34.50			23.05	482.5	0.	24.78	34.50	23.05	482.5	0.000	
11.	24.80	34.50			23.05	483.5	10.	24.80	34.50	23.05	483.4	0.049	
50. <sup>A</sup>	24.81	34.51			23.05	484.6	20.	24.81	34.50	23.04	483.9	0.097	
75. <sup>A</sup>	24.81	34.52			23.06	484.8	30.	24.81	34.50	23.04	484.3	0.146	
102.	24.82	34.53			23.06	485.5	50.	24.81	34.51	23.05	484.6	0.244	
128.	24.65	34.74			23.27	466.4	75.	24.81	34.52	23.06	484.8	0.366	
154.	23.08*	35.00			23.93	404.4	100.	24.82	34.53	23.06	485.8	0.488	
178.	21.39	35.04			24.44	356.8	150.	23.38	34.97	23.82	415.0	0.715	
193.	20.39	35.05			24.72	330.7	200.	20.18	35.05	24.77	325.7	0.902	
228.	19.28	34.96			24.94	310.5	250.	17.52	34.78	25.24	282.3	1.055	
255.	17.09	34.73			25.30	275.9	300.	13.45	34.35	25.81	227.3	1.183	
281.	15.35	34.53			25.55	252.5	400.	8.45	34.12	26.54	157.7	1.378	
306.	12.84	34.29			25.89	219.5	500.	6.92	34.23	26.84	129.3	1.523	
408.	8.32	34.14			26.57	154.6	600.	6.04	34.35	27.05	109.6	1.643	
509.	6.86	34.24			26.86	127.5	700.	5.49	34.43	27.19	97.4	1.748	
611.	5.96	34.36			27.07	107.8	800.	5.11	34.49	27.28	89.7	1.842	
812.	5.07	34.49			27.28	89.1	1000.	4.30	34.52	27.39	79.1	2.013	
1016.	4.24	34.52			27.40	78.5	1200.	3.68	34.55	27.48	71.1	2.165	
1217.	3.63	34.55			27.49	70.5	1500.	2.98	34.57	27.56	63.3	2.370	
1521.	2.95	34.57			27.57	63.0							

CROMWELL		12, STATION	3, 17-30N LAT, 157- OW LONG, JAN.	7, 1965, 0500 G.C.T.									
DRY BULB		25.0	WET BULB	22.0	WIND SPEED	13, DIR.	13	BAR. 11	WEATHER 02	VIS.	5	CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	GXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.40	34.33			23.04	483.8	0.	24.40	34.33	23.04	483.8	0.000	
9.	24.43	34.32			23.02	485.8	10.	24.44	34.32	23.02	486.2	0.049	
47.	24.51	34.59			23.20	470.1	20.	24.48	34.31	23.00	488.0	0.098	
50. <sup>A</sup>	24.50	34.66			23.26	464.9	30.	24.50	34.37	23.03	485.2	0.147	
72.	24.48	34.83			23.39	452.9	50.	24.50	34.66	23.26	464.9	0.243	
95.	23.23	34.97			23.86	408.5	75.	24.36	34.85	23.44	448.2	0.358	
118.	21.64	35.08			24.40	358.3	100.	22.86	35.00	23.99	396.6	0.464	
142.	20.92	35.15			24.65	335.3	150.	20.80	35.15	24.68	332.4	0.648	
165.	20.40	35.12			24.77	324.9	200.	17.68	34.78	25.20	284.0	0.803	
179.	19.47	35.05			24.96	307.0	250.	12.55	34.28	25.94	213.5	0.928	
211.	16.59	34.62			25.34	271.1	300.	10.63	34.23	26.27	183.0	1.028	
236.	13.87	34.38			25.75	231.4	400.	8.67	34.41	26.73	139.6	1.191	
261.	11.73	34.22			26.05	202.7	500.	7.52	34.44	26.92	122.2	1.323	
284.	11.05	34.21			26.17	191.8	600.	6.68	34.46	27.06	109.7	1.440	
378.	9.00	34.40			26.67	145.4	700.	5.94	34.48	27.17	100.1	1.546	
474.	7.78	34.43			26.88	126.2	800.	5.35	34.49	27.25	92.8	1.644	
568.	6.94	34.46			27.02	113.3	1000.	4.50	34.52	27.37	81.5	1.820	
758.	5.57	34.48			27.22	95.7	1200.	3.84	34.55	27.47	72.9	1.977	
950.	4.60	34.51			27.34	84.2							
1140.	4.04	34.55			27.45	74.9							
1433.	3.28	34.57			27.54	66.4							

\*FROM BY DATA

\*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	12, STATION	4, 16- ON LAT, 157- ON LONG, JAN.	7, 1965, 1600 G.C.T.	DRY BULB 24.4	WET BULB 20.8	WIND SPEED 12, DIR. 17	BAR. 10	WEATHER 02	VIS.	CLOUD	TYPE	COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.73	34.19			22.83	503.4	0.	24.73	34.19	22.83	503.4	0.000	
9. <sup>A</sup>	24.75	34.19			22.83	504.3	10.	24.76	34.22	22.84	502.7	0.051	
30. <sup>A</sup>	24.88	34.80			23.25	464.9	20.	24.82	34.49	23.03	485.2	0.100	
49.	24.90	34.92			23.33	457.6	30.	24.88	34.80	23.25	464.9	0.148	
72.	22.94	35.06			24.02	393.1	50.	24.83	34.93	23.36	455.3	0.241	
96.	21.22	35.13			24.55	342.9	75.	22.70	35.07	24.10	385.7	0.347	
120.	19.99	35.07			24.84	316.5	100.	20.99	35.12	24.61	337.5	0.438	
144.	18.87	35.00			25.07	294.7	150.	18.41	34.94	25.14	288.1	0.596	
168.	16.60	34.68			25.38	265.6	200.	12.72	34.22	25.86	219.8	0.724	
182.	14.78	34.42			25.59	245.6	250.	10.38	34.34	26.39	170.0	0.822	
214.	11.54	34.17			26.05	201.8	300.	9.54	34.43	26.60	150.6	0.903	
239.	10.76	34.33			26.32	176.9	400.	8.57	34.47	26.79	133.9	1.046	
262.	10.02	34.34			26.45	164.1	500.	7.05	34.43	26.98	116.3	1.173	
286.	9.65	34.40			26.56	154.1	600.	6.41	34.49	27.12	104.1	1.284	
378.	8.97	34.49			26.74	138.3	700.	5.75	34.50	27.21	95.7	1.385	
471.	7.30	34.41			26.93	120.6	800.	5.18	34.51	27.28	89.2	1.478	
562.	6.68	34.48			27.07	108.1	1000.	4.32	34.53	27.40	78.6	1.648	
747.	5.46	34.50			27.25	92.6	1200.	3.65	34.56	27.49	70.2	1.799	
931.	4.59	34.52			27.36	82.0							
1116.	3.93	34.55			27.46	73.4							
1397.	3.17	34.58			27.56	64.1							

SALINITY ERROR TERM AT 20. METERS IS 0.06

CROMWELL	12, STATION	5, 14-30N LAT, 156-59W LONG, JAN.	8, 1965, 0100 G.C.T.	DRY BULB 26.0	WET BULB 22.4	WIND SPEED 14, DIR. 12	BAR. 11	WEATHER 01	VIS. 7	CLOUD	TYPE 4,	COVER 5
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.46	34.00			22.47	538.3	0.	25.46	34.00	22.47	538.3	0.000
10. <sup>A</sup>	25.41	34.00			22.48	537.2	10.	25.41	34.00	22.48	537.2	0.054
30. <sup>A</sup>	25.18	34.29			22.77	510.4	20.	25.31	34.12	22.61	525.9	0.108
49.	24.86	34.53			23.05	484.5	30.	25.18	34.29	22.77	510.4	0.160
75.	23.09	35.00			23.93	401.7	50.	24.81	34.55	23.08	481.7	0.260
99.	20.76	34.93			24.53	345.5	75.	23.09	35.00	23.93	401.7	0.371
123.	17.81	34.70			25.11	290.5	100.	20.65	34.92	24.55	343.1	0.465
148.	14.52	34.40			25.63	240.7	150.	14.25	34.38	25.67	236.8	0.611
172.	11.92	34.24			26.03	202.6	200.	11.09	34.34	26.26	181.4	0.716
187.	11.38	34.26			26.15	191.7	250.	10.43	34.57	26.56	154.0	0.801
220.	10.80	34.47			26.42	166.9	300.	9.78	34.57	26.67	144.2	0.876
245.	10.49	34.56			26.54	155.5	400.	8.01	34.51	26.91	122.7	1.011
271.	10.19	34.58			26.61	149.5	500.	7.02	34.48	27.03	111.9	1.129
295.	9.87	34.57			26.66	145.4	600.	6.28	34.48	27.13	102.8	1.238
392.	8.11	34.51			26.89	123.8	700.	5.64	34.50	27.23	94.2	1.337
490.	7.10	34.48			27.02	112.9	800.	5.12	34.52	27.30	87.2	1.429
562.	6.40	34.48			27.11	104.5	1000.	4.31	34.53	27.40	78.2	1.596
776.	5.23	34.52			27.29	88.5	1200.	3.64	34.56	27.49	69.8	1.746
974.	4.40	34.53			27.39	79.3						
1171.	3.74	34.56			27.48	70.8						
1468.	2.95	34.60			27.59	60.4						

CROMWELL	12, STATION	6, 13- ON LAT, 157- ON LONG, JAN.	8, 1965, 1000 G.C.T.	DRY BULB 25.1	WET BULB 22.5	WIND SPEED 14, DIR. 10	BAR. 11	WEATHER 02	VIS.	CLOUD	TYPE	COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.54	34.25			22.63	522.6	0.	25.54	34.25	22.63	522.6	0.000
10. <sup>A</sup>	25.56	34.25			22.63	523.6	10.	25.56	34.25	22.63	523.6	0.053
30. <sup>A</sup>	25.55	34.26			22.64	523.3	20.	25.56	34.25	22.63	523.6	0.105
50. <sup>A</sup>	25.54	34.27			22.65	523.1	30.	25.55	34.26	22.64	523.3	0.158
52.	25.53	34.28			22.66	522.2	50.	25.54	34.27	22.65	523.1	0.264
77.	21.60	34.84			24.23	373.1	75.	22.04	34.79	24.07	388.0	0.378
101.	18.28	34.74			25.02	297.9	100.	18.41	34.75	25.00	300.2	0.465
127.	14.58	34.46			25.67	237.0	150.	12.22	34.28	26.01	204.8	0.592
153.	11.98	34.26			26.04	201.7	200.	10.73	34.41	26.38	169.7	0.687
177.	10.80	34.21			26.22	185.0	250.	10.15	34.56	26.60	149.9	0.767
192.	10.79	34.35			26.33	174.9	300.	9.54	34.59	26.73	138.5	0.840
226.	10.43	34.53			26.53	156.2	400.	8.47	34.57	26.89	125.0	0.973
254.	10.10	34.56			26.61	149.1	500.	7.37	34.52	27.01	113.8	1.093
279.	9.85	34.59			26.68	143.2	600.	6.52	34.52	27.13	103.5	1.203
304.	9.48	34.59			26.74	137.7	700.	5.80	34.52	27.22	94.8	1.303
405.	8.43	34.57			26.89	124.5	800.	5.21	34.53	27.30	87.8	1.396
508.	7.29	34.52			27.02	113.0	1000.	4.50	34.55	27.40	79.5	1.565
607.	6.47	34.52			27.13	102.9	1200.	3.82	34.57	27.48	71.3	1.718
608.	5.17	34.53			27.30	87.3	1500.	3.03	34.60	27.58	61.7	1.920
1011.	4.47	34.55			27.40	79.1						
1212.	3.78	34.57			27.49	70.9						
1513.	3.00	34.60			27.59	61.3						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL		12, STATION		7, 11-27N LAT, 156-55W LONG, JAN.		8, 1965, 1900 G.C.T.											
DRY BULB 25.0		WET BULB 23.5		WIND SPEED 11, DIR. 10		BAR. 1C		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 9					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	26.07	34.43		22.60	525.3	0.	26.07	34.43	22.60	525.3	0.000						
10. <sup>A</sup>	26.09	34.43		22.60	526.3	10.	26.09	34.43	22.60	526.3	0.053						
50. <sup>A</sup>	26.09	34.43		22.60	527.9	20.	26.11	34.43	22.59	527.2	0.106						
65. <sup>A</sup>	26.04	34.43		22.61	527.0	30.	26.11	34.43	22.59	527.7	0.159						
75. <sup>A</sup>	25.72	34.47		22.74	515.0	50.	26.09	34.43	22.60	527.9	0.265						
81.	19.50	34.78		24.74	323.9	75.	25.72	34.47	22.74	515.0	0.397						
101.	16.50	34.58		25.33	268.6	100.	16.32	34.61	25.40	262.1	0.495						
125.	13.91	34.33		25.71	232.8	150.	12.14	34.52	26.21	185.6	0.608						
151.	12.09	34.53		26.23	183.9	200.	11.24	34.71	26.53	156.3	0.694						
176.	11.56	34.70		26.46	162.4	250.	10.54	34.71	26.65	145.5	0.770						
191.	11.36	34.71		26.50	158.4	300.	10.03	34.69	26.73	139.2	0.842						
224.	10.90	34.71		26.59	151.1	400.	9.14	34.66	26.85	128.9	0.977						
251.	10.53	34.71		26.65	145.3	500.	8.19	34.60	26.95	120.2	1.103						
277.	10.23	34.70		26.70	141.5	600.	7.22	34.56	27.06	110.4	1.219						
302.	10.01	34.69		26.73	139.0	700.	6.41	34.54	27.16	101.7	1.326						
402.	9.12	34.66		26.65	128.7	800.	5.76	34.54	27.24	94.3	1.425						
503.	8.16	34.60		26.96	119.9	1000.	4.83	34.56	27.37	82.8	1.604						
603.	7.19	34.56		27.07	110.1	1200.	4.03	34.57	27.46	73.9	1.763						
803.	5.74	34.54		27.24	94.1	1500.	3.22	34.60	27.57	63.9	1.973						
1004.	4.81	34.56		27.37	82.6												
1203.	4.02	34.57		27.46	73.8												
1503.	3.21	34.60		27.57	63.8												

TEMPERATURE ERROR TERM AT 100. METERS IS 0.21

CROMWELL		12, STATION		7A, 10- ON LAT, 154- OW LONG, JAN.		9, 1965, 1700 G.C.T.											
DRY BULB 24.5		WET BULB 23.5		WIND SPEED 18, DIR. 07		BAR. 09		WEATHER 21		VIS.		CLOUD TYPE 8, COVER 8					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	25.84	34.48	4.72	0.41	22.71	514.9	0.	25.84	34.48	22.71	514.9	0.000					
11. <sup>A</sup>	25.85	34.48	5.03	0.33	22.71	515.6	10.	25.85	34.48	22.71	515.6	0.052					
30. <sup>A</sup>	25.86	34.49			22.71	515.9	20.	25.86	34.48	22.71	515.8	0.104					
51.	25.87	34.50	4.97	0.30	22.72	516.4	30.	25.86	34.49	22.71	515.9	0.156					
75.	20.21	34.79	4.84	0.41	24.57	340.7	50.	25.92	34.50	22.70	518.1	0.260					
101.	15.90	34.53	4.64	0.22	25.43	259.0	75.	20.21	34.79	24.57	340.7	0.368					
125.	12.99	34.42	2.06	1.86	25.96	208.2	100.	16.04	34.54	25.41	261.0	0.444					
150.	12.00	34.59	0.54	2.13	26.29	177.8	150.	12.00	34.59	26.29	177.8	0.554					
175.	11.54	34.70	0.26	2.28	26.46	162.0	200.	10.90	34.72	26.60	149.5	0.637					
189.	11.11	34.72	0.19	2.59	26.56	153.2	250.	10.29	34.71	26.70	141.2	0.710					
224.	10.61	34.72	0.37	2.40	26.65	145.3	300.	9.94	34.70	26.75	137.1	0.780					
250.	10.29	34.71	0.41	2.60	26.70	141.2	400.	9.23	34.66	26.83	130.5	0.915					
274.	10.11	34.71	0.40	2.46	26.73	138.6	500.	8.29	34.61	26.94	121.2	1.042					
300.	9.94	34.70	0.44	2.60	26.75	137.1	600.	7.12	34.55	27.07	109.8	1.159					
398.	9.25	34.66	0.40	3.09	26.83	130.7	700.	6.30	34.53	27.17	100.8	1.266					
499.	8.30	34.61	0.21	2.86	26.94	121.3	800.	5.68	34.54	27.25	93.2	1.364					
598.	7.14	34.55	0.36	3.00	27.07	110.0	1000.	4.68	34.56	27.38	80.9	1.540					
802.	5.67	34.54	0.62	3.16	27.25	93.1	1200.	3.91	34.58	27.48	71.7	1.694					
996.	4.70	34.56	0.98	3.33	27.38	81.1											
1197.	3.92	34.58	1.24	3.04	27.48	71.7											
1496.	3.18	34.60	1.54	2.91	27.57	63.4											

CROMWELL		12, STATION		8, 11-30N LAT, 154- 1W LONG, JAN.		10, 1965, 0100 G.C.T.											
DRY BULB 25.0		WET BULB 22.5		WIND SPEED 22, DIR. 08		BAR. 08		WEATHER 02		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.	25.10	34.05	4.83	22.62	524.2	0.	25.10	34.05	22.62	524.2	0.000						
9. <sup>A</sup>	25.08	34.04	4.82	0.29	22.61	524.6	10.	25.08	34.04	22.61	524.7	0.053					
30. <sup>A</sup>	25.06	34.05			22.63	524.2	20.	25.07	34.04	22.62	524.5	0.106					
47. <sup>A</sup>	25.05	34.06	4.84	0.34	22.64	523.8	30.	25.06	34.05	22.63	524.2	0.158					
50. <sup>A</sup>	25.00	34.09	5.11	0.33	24.42	354.4	50.	25.00	34.09	22.68	520.3	0.264					
72.	21.06	34.90	5.11	0.33	24.42	354.4	75.	20.72	34.91	24.52	344.8	0.373					
97.	18.40	34.73	4.12	0.66	24.99	301.3	100.	17.93	34.69	25.07	293.3	0.453					
122.	14.58	34.42	3.59	0.87	25.64	239.8	150.	12.08	34.36	26.09	196.4	0.576					
147.	12.23	34.34	2.56	1.89	26.05	200.3	200.	10.82	34.59	26.51	157.9	0.666					
171.	11.40	34.50	1.15	2.02	26.33	174.1	250.	10.13	34.65	26.68	142.7	0.741					
185.	11.12	34.56	0.77	2.47	26.43	165.0	300.	9.58	34.65	26.77	134.9	0.811					
217.	10.53	34.61	0.51	2.48	26.58	151.9	400.	8.62	34.61	26.90	124.2	0.942					
244.	10.22	34.65	0.41	2.64	26.66	144.3	500.	7.62	34.57	27.01	114.3						

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 24.3	12, STATION WET BULB 22.0	9, 13- 5N LAT, 154- 6W LONG, JAN. 10, 1965, 1100 G.C.T.		WIND SPEED 21, DIR. 09	10, 1965, 1100 G.C.T.	BAR. 10	WEATHER 02	VIS. 6	CLOUD TYPE	, COVER	DYN.DPTH.				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.84	34.14	4.97	22.76	510.2	0.	24.84	34.14	22.76	510.2	0.000				
11.	24.85	34.14	5.14	0.56	22.76	510.9	10.	24.85	34.14	22.76	510.8	0.051			
30. <sup>A</sup>	24.85	34.13			22.75	512.3	20.	24.85	34.14	22.76	511.6	0.103			
51.	24.85	34.13	4.97	0.31	22.75	513.1	30.	24.85	34.13	22.75	512.3	0.154			
77.	21.37	34.83	5.13	0.33	24.28	367.8	50.	24.88	34.12	22.74	514.3	0.258			
102.	20.17	35.07	4.77	0.38	24.79	320.4	75.	21.67	34.77	24.16	379.8	0.371			
128.	17.28	34.75	4.54	0.76	25.27	274.7	100.	20.26	35.07	24.77	322.6	0.459			
153.	12.71	34.27	2.90	1.70	25.90	214.6	150.	13.22	34.31	25.84	221.0	0.596			
177.	11.45	34.44	1.36	2.22	26.28	179.5	200.	11.00	34.56	26.45	163.4	0.693			
192.	11.10	34.52	1.05	2.11	26.40	167.8	250.	10.40	34.65	26.63	147.3	0.771			
226.	10.75	34.64	0.32	2.24	26.56	153.6	300.	9.78	34.63	26.72	139.5	0.843			
253.	10.35	34.65	0.23	2.36	26.64	146.6	400.	8.53	34.58	26.88	129.1	0.977			
278.	9.97	34.66	0.19	2.35	26.70	141.5	500.	7.66	34.55	26.99	115.9	1.099			
303.	9.76	34.63	0.15	2.80	26.72	139.3	600.	6.71	34.53	27.11	105.3	1.210			
402.	8.50	34.58	0.38	2.26	26.89	124.8	700.	5.98	34.53	27.20	97.1	1.313			
502.	7.64	34.55	0.41	2.64	26.99	115.8	800.	5.42	34.53	27.27	90.5	1.407			
602.	6.69	34.53	0.58	2.84	27.11	105.1	1000.	4.58	34.55	27.39	80.4	1.500			
800.	5.42	34.53	0.62	2.94	27.27	90.5	1200.	3.91	34.57	27.48	72.4	1.735			
1000.	4.58	34.55	1.01	3.08	27.39	80.4									
1200.	3.91	34.57	1.39	2.83	27.48	72.4									
1499.	3.10	34.59	1.80	2.86	27.57	63.2									

CROMWELL DRY BULB 24.0	12, STATION WET BULB 22.5	10, 14-35N LAT, 154-10W LONG, JAN. 10, 1965, 2000 G.C.T.		WIND SPEED 14, DIR. 10	BAR. 12	WEATHER 02	VIS. 6	CLOUD TYPE	, COVER	7		
DEPTH	TEMP.	SAL.	GXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.14	34.15	4.77	22.68	518.1	0.	25.14	34.15	22.68	518.1	0.000	
10.	25.16	34.15	4.96	0.63	22.67	519.1	10.	25.16	34.15	22.67	519.1	0.052
49.	25.13	34.16	4.90	0.29	22.69	519.0	20.	25.16	34.15	22.67	519.8	0.105
75.	25.08	34.22	4.95	0.37	22.75	514.2	30.	25.16	34.15	22.67	520.0	0.157
99.	22.12	35.07	5.02	0.71	24.26	371.1	50.	25.16	34.15	22.68	520.3	0.262
122.	20.21	35.07	4.54	0.36	24.78	322.1	75.	25.08	34.22	22.75	514.2	0.392
147.	17.74	34.79	4.33	0.63	25.19	283.1	100.	22.03	35.08	24.29	368.0	0.503
171.	15.03	34.46	3.82	0.99	25.57	247.6	150.	17.43	34.75	25.24	279.0	0.666
185.	13.11	34.30	3.74		25.85	220.9	200.	11.96	34.27	26.05	201.7	0.787
218.	11.30	34.34	2.05	1.84	26.23	185.1	250.	10.85	34.52	26.45	164.6	0.880
243.	10.94	34.49	1.42	2.23	26.41	168.4	300.	10.03	34.60	26.66	145.8	0.958
267.	10.62	34.58	0.58	2.25	26.54	156.7	400.	8.77	34.59	26.85	128.3	1.096
291.	10.18	34.60	1.10	2.51	26.63	148.3	500.	8.00	34.58	26.96	119.2	1.221
306.	8.89	34.59	0.90	2.87	26.83	129.9	600.	7.07	34.54	27.07	109.6	1.337
483.	8.15	34.58	0.58	2.87	26.94	120.9	700.	6.20	34.51	27.16	101.0	1.443
578.	7.28	34.55	0.76	3.00	27.05	111.7	800.	5.48	34.50	27.24	93.4	1.541
770.	5.66	34.50	0.50	2.60	27.22	95.5	1000.	4.57	34.54	27.38	81.3	1.710
963.	4.72	34.53	0.43	3.09	27.36	83.3	1200.	3.81	34.56	27.48	71.6	1.873
1155.	4.00	34.56	1.70	3.47	27.46	73.8						
1448.	3.06	34.59	1.24	2.42	27.57	62.3						

CROMWELL DRY BULB 24.1	12, STATION WET BULB 22.0	11, 16- 9N LAT, 154- 4W LONG, JAN. 11, 1965, 0400 G.C.T.		WIND SPEED 15, DIR. 09	BAR. 12	WEATHER 02	VIS. 6	CLOUD TYPE	, COVER	7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.15	34.16	4.88	22.68	517.7	0.	25.15	34.16	22.68	517.7	0.000	
11.	25.15	34.16	5.01	0.91	22.68	518.1	10.	25.15	34.16	22.68	518.1	0.052
50. <sup>A</sup>	25.15	34.16			22.68	519.6	20.	25.15	34.16	22.68	518.5	0.104
61.	25.15	34.16	4.85	0.31	22.68	520.1	30.	25.15	34.16	22.68	518.9	0.157
75. <sup>A</sup>	25.06	34.22			22.76	513.7	50.	25.15	34.16	22.68	519.6	0.261
90.	24.98	34.32	4.70	0.27	22.86	504.7	75.	25.06	34.22	22.76	513.7	0.391
100.	23.00	34.86	5.25	0.30	23.85	410.3	100.	23.00	34.86	23.85	410.3	0.506
127.	20.27	34.76	4.84	0.47	24.53	346.2	150.	18.07	34.68	25.03	298.9	0.686
153.	17.80*	34.67	4.27	0.69	25.09	293.4	200.	13.39	34.33	25.81	224.6	0.818
176.	15.83	34.53	4.01	0.82	25.44	259.8	250.	10.56	34.34	26.36	173.2	0.919
191.	14.26	34.38	3.61	1.16	25.67	238.1	300.	9.33	34.35	26.58	152.7	1.001
226.	11.42	34.28	2.32	1.93	26.16	191.9	400.	7.38	34.31	26.84	128.1	1.142
252.	10.50	34.34	1.80	2.17	26.37	172.0	500.	6.02	34.29	27.01	112.5	1.264
279.	9.38	34.25	2.14	1.73	26.49	160.6	600.	5.85	34.44	27.15	100.3	1.371
303.	9.34	34.37	1.38	2.12	26.59	151.6	700.	5.37	34.49	27.25	91.5	1.448
403.	7.30	34.30	1.20	2.44	26.85	127.7	800.	4.78	34.49	27.32	85.2	1.558
505.	5.98	34.29	0.90	2.69	27.02	111.9	1000.	4.13	34.53	27.42	76.3	1.721
606.	5.85	34.45	0.68		27.16	99.7	1200.	3.54	34.57	27.51	68.0	1.867
607.	4.74	34.49	0.88	2.51	27.32	84.8	1500.	2.93	34.60	27.59	60.4	2.062
1007.	4.11	34.53	1.20	2.38	27.42	76.1						
1208.	3.52	34.57	1.24	2.89	27.51	67.6						
1509.	2.91	34.60	1.54	2.71	27.60	60.2						

\*FROM BT DATA  
\*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL DRY BULB 24.3		12, STATION 12, 17-32N LAT, 154- 3W LONG, JAN. 11, 1965, 1300 G.C.T.													
		WET BULB 22.4		WIND SPEED 18, DIR. 09	BAR. 14	WEATHER 02	VIS. 6	CLOUD TYPE , COVER							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.01	34.18	4.94		22.74	512.2	0.	25.01	34.18	22.74	512.2	0.000			
10.	25.00	34.18	5.00	0.26	22.74	512.3	10.	25.00	34.18	22.74	512.3	0.052			
20.	24.99	34.18	4.76	0.70	22.75	513.5	20.	24.99	34.18	22.75	512.4	0.103			
30.	25.03	34.18	4.89	0.26	22.73	515.7	30.	24.99	34.18	22.75	512.7	0.155			
40.	21.85	34.66	5.14	0.37	24.02	393.6	50.	24.99	34.18	22.75	513.5	0.258			
50.	20.41	35.06	4.68	0.33	24.72	328.1	75.	25.06	34.18	22.72	516.9	0.388			
60.	18.00*	34.73	4.09	0.70	25.08	293.7	100.	21.99	34.64	23.97	399.0	0.503			
70.	15.42	34.47	3.59	1.11	25.49	255.3	150.	18.21	34.77	25.06	295.8	0.678			
80.	14.62	34.39	3.60	1.00	25.60	244.7	200.	13.94	34.32	25.70	235.9	0.812			
90.	12.18	34.21	4.05	1.38	25.96	210.8	250.	11.35	34.31	26.19	189.0	0.920			
100.	11.30	34.32	2.02	1.81	26.21	187.4	300.	9.60	34.30	26.49	161.1	1.008			
110.	10.22	34.29	2.28	2.04	26.38	171.5	400.	8.46	34.44	26.78	134.8	1.157			
120.	9.53	34.30	2.08	1.84	26.50	159.8	500.	7.54	34.44	26.92	122.2	1.287			
130.	8.45	34.44	0.74	2.26	26.79	134.4	600.	6.62	34.47	27.07	108.6	1.403			
140.	7.50	34.44	0.49	2.57	26.93	121.8	700.	5.86	34.48	27.18	98.6	1.508			
150.	6.58	34.47	0.53	3.00	27.08	108.0	800.	5.24	34.49	27.26	91.1	1.604			
160.	5.22	34.49	0.82	2.55	27.27	90.9	1000.	4.36	34.52	27.39	79.9	1.777			
170.	4.34	34.52	0.99	2.68	27.39	79.6	1200.	3.71	34.55	27.48	71.5	1.930			
180.	3.70	34.55	1.18	3.11	27.48	71.3	1500.	2.89	34.59	27.59	60.7	2.131			
190.	2.88	34.59	1.65	2.24	27.59	60.5									

CROMWELL DRY BULB 23.5		12, STATION 13, 18-56N LAT, 154- 0W LONG, JAN. 11, 1965, 2100 G.C.T.													
		WET BULB 21.8		WIND SPEED 11, DIR. 06	BAR. 15	WEATHER 15	VIS. 7	- CLOUD TYPE 8, COVER 8							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.56	34.71	4.88		23.28	461.0	0.	24.56	34.71	23.28	461.0	0.000			
9.	24.57	34.72	4.92	0.31	23.28	460.9	10.	24.57	34.72	23.28	461.0	0.046			
46.	24.57	34.72	4.78	0.37	23.28	462.4	20.	24.57	34.72	23.28	461.2	0.093			
69.	24.58	34.72	4.95	0.29	23.28	463.6	30.	24.57	34.72	23.28	461.6	0.139			
75.	24.52	34.93			23.45	447.0	50.	24.59	34.67	23.24	466.3	0.233			
92.	24.36	35.01	4.81	0.28	23.56	437.3	75.	24.52	34.93	23.45	447.0	0.348			
114.	22.82	34.97	4.80	0.24	23.98	397.9	100.	23.85	34.99	23.70	424.5	0.458			
138.	21.90*	35.20	5.02	0.20	24.42	357.3	150.	21.49	35.23	24.55	344.9	0.651			
160.	21.11	35.21	4.65	0.38	24.64	336.6	200.	19.02	34.93	24.98	305.2	0.815			
170.	20.39	35.12	4.54	0.31	24.77	324.9	250.	14.32	34.41	25.68	238.6	0.952			
205.	18.69	34.89	4.27	1.12	25.03	300.3	300.	11.57	34.18	26.05	203.7	1.064			
229.	16.36	34.66	4.32	0.64	25.42	263.6	400.	7.95	34.13	26.62	149.7	1.242			
253.	14.06	34.38	4.50	0.80	25.71	235.7	500.	6.35	34.19	26.89	124.0	1.380			
284.	12.36	34.22	4.08	1.15	25.93	214.9	600.	5.74	34.29	27.05	109.7	1.498			
368.	8.85	34.13	3.04	1.60	26.48	162.8	700.	5.31	34.40	27.18	97.8	1.603			
460.	6.78	34.16	1.64	2.24	26.81	131.6	800.	4.94	34.47	27.28	89.0	1.698			
551.	6.01	34.24	0.98	2.49	26.97	116.6	1000.	4.24	34.52	27.40	78.2	1.867			
737.	5.19	34.43	0.72	3.05	27.22	94.2	1200.	3.65	34.56	27.49	70.2	2.017			
922.	4.49	34.51	0.86	2.29	27.37	81.4									
1110.	3.92	34.53	1.06	2.84	27.44	74.7									
1395.	3.18	34.57	1.39	2.53	27.55	64.9									

CROMWELL DRY BULB 24.0		12, STATION 14, 20-30N LAT, 154- 1W LONG, JAN. 12, 1965, 0600 G.C.T.													
		WET BULB 21.4		WIND SPEED 16, DIR. 12	BAR. 14	WEATHER 01	VIS.	CLOUD TYPE , COVER							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.54	34.59	4.89		23.19	469.1	0.	24.54	34.59	23.19	469.1	0.000			
9.	24.58	34.59	5.06	0.43	23.18	470.6	10.	24.58	34.59	23.18	470.5	0.047			
46.	24.57	34.70	4.92	0.49	23.27	463.8	20.	24.59	34.61	23.19	469.6	0.095			
70.	24.62	34.79	5.09	0.28	23.32	459.7	30.	24.59	34.64	23.22	468.0	0.142			
93.	23.92	35.02	4.91		23.70	424.1	50.	24.60	34.71	23.26	464.3	0.236			
116.	22.84	35.03	4.88	0.27	24.02	394.2	75.	24.52	34.84	23.39	453.1	0.351			
140.	21.49	35.08	4.80	0.32	24.44	355.2	100.	23.62	35.03	23.80	415.1	0.461			
162.	20.51	35.10	4.57	0.36	24.72	329.0	150.	21.05	35.10	24.58	342.3	0.652			
176.	19.75	35.02	4.43	0.48	24.86	316.0	200.	18.30	34.85	25.10	294.0	0.812			
207.	17.84	34.79	4.24	0.67	25.17	287.4	250.	15.04	34.48	25.58	248.6	0.949			
232.	16.02	34.58	4.28	0.72	25.44	262.0	300.	12.11	34.24	26.00	208.8	1.064			
256.	14.72	34.45	4.44	0.80	25.63	244.3	400.	9.39	34.27	26.50	161.7	1.251			
279.	13.13	34.30	4.01	1.22	25.84	223.7	500.	7.68	34.31	26.80	133.7	1.400			
372.	9.92	34.25	2.55	2.28	26.40	171.4	600.	6.04	34.32	27.03	112.0	1.524			
466.	8.38	34.32	1.54	2.02	26.70	143.3	700.	5.23	34.38	27.17	98.4	1.630			
559.	6.53	34.30	1.22	2.36	26.95	119.3	800.	4.79	34.44	27.27	89.4	1.725			
746.	5.04	34.41	0.82	2.53	27.22	93.9	1000.	4.10	34.51	27.41	77.3	1.894			
935.	4.32	34.49	1.06	2.69	27.37	80.9	1200.	3.49	34.55	27.51	68.4	2.042			
1124.	3.71	34.54	1.35	2.53	27.47	71.5									
1414.	2.97	34.57	1.65	2.96	27.57	62.5									

TEMPERATURE ERROR TERM AT 300 METERS IS 0.10

\*FROM BT DATA  
\*\*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA					
CROMWELL		12, STATION		15, 22- IN LAT, 153-59W LONG, JAN. 12, 1965, 1600 G.C.T.					VIS. 6		CLOUD TYPE		COVER	
DRY BULB 23.0		WET BULB 20.8		WIND SPEED 17, DIR. 13		BAR. 14			WEATHER 02					
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.54	34.58	4.88	23.18	469.8	0.	24.54	34.58	23.18	469.8	0.000			
10.	24.60	34.58	5.06	0.33	23.17	471.9	10.	24.60	34.58	23.17	471.9	0.047		
50.	24.38	34.63	4.88	0.29	23.27	463.6	20.	24.59	34.56	23.15	473.6	0.095		
76.	24.13	35.01	5.06	0.26	23.63	430.1	30.	24.55	34.56	23.17	472.7	0.143		
100.	23.69	35.10	4.92	0.22	23.83	412.1	50.	24.38	34.63	23.27	463.6	0.237		
125.	22.88	35.27	4.88	0.26	24.19	378.4	75.	24.14	35.00	23.62	431.5	0.350		
152.	21.32	35.15	4.72	0.29	24.54	346.1	100.	23.69	35.10	23.83	412.1	0.456		
175.	19.89	35.07	4.46	0.40	24.86	315.9	150.	21.45	35.16	24.51	348.4	0.648		
190.	19.22	35.01	4.42	0.80	24.99	304.1	200.	18.68	34.95	25.08	295.9	0.810		
223.	17.24	34.76	4.44	0.48	25.29	276.1	250.	15.29	34.51	25.55	251.9	0.948		
251.	15.22	34.50	4.38	2.18	25.56	251.0	300.	12.24	34.22	25.96	212.8	1.065		
277.	13.53	34.33	4.42	2.44	25.79	229.3	400.	9.16	34.09	26.40	171.2	1.259		
301.	12.19	34.22	4.61	1.62	25.97	212.2	500.	6.75	34.03	26.71	141.4	1.417		
400.	9.16	34.09	4.12	1.59	26.40	171.2	600.	5.50	34.12	26.94	119.6	1.549		
501.	6.73	34.03	7.63	1.89	26.71	141.1	700.	4.89	34.25	27.11	103.7	1.662		
602.	5.48	34.12	1.28		26.94	119.2	800.	4.59	34.37	27.24	91.9	1.760		
801.	4.59	34.37	0.85		27.24	91.8	1000.	4.06	34.49	27.40	78.4	1.933		
1003.	4.05	34.49	1.10	3.13	27.40	78.3	1200.	3.53	34.53	27.48	70.6	2.084		
1203.	3.52	34.53	1.28	3.44	27.48	70.6	1500.	2.85	34.58	27.59	60.8	2.284		
1503.	2.84	34.58	1.66	2.91	27.59	60.8								
CROMWELL		12, STATION		16, 23-30N LAT, 153-59W LONG, JAN. 12, 1965, 2400 G.C.T.					VIS. 7		CLOUD TYPE B, COVER 2			
DRY BULB 24.2		WET BULB 21.0		WIND SPEED 14, DIR. 16		BAR. 13			WEATHER 01					
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.52	35.08	5.07	23.86	405.0	0.	23.52	35.08	23.86	405.0	0.000			
10.	23.52	35.07	5.01	0.68	23.86	406.1	10.	23.52	35.07	23.86	406.1	0.041		
52.	23.35	35.17	4.90	0.24	23.98	395.7	20.	23.52	35.08	23.87	405.5	0.082		
77.	22.97	35.24	4.96	0.20	24.14	381.2	30.	23.49	35.10	23.89	403.8	0.122		
102.	21.70	35.24	4.80	0.34	24.50	347.8	50.	23.37	35.16	23.97	396.7	0.203		
127.	20.73	35.17	4.65	0.43	24.72	328.4	75.	23.02	35.24	24.13	382.8	0.301		
152.	19.48	35.08	4.76	0.39	24.98	304.1	100.	21.81	35.24	24.47	350.5	0.394		
170.	18.20	34.90	4.54	0.44	25.16	287.0	150.	19.58	35.09	24.96	306.0	0.559		
194.	17.44	34.80	4.70	0.44	25.27	276.9	200.	17.10	34.75	25.32	272.8	0.705		
228.	15.36	34.52	4.65	1.53	25.54	251.9	250.	14.00	34.39	25.74	233.6	0.833		
252.	13.88	34.38	4.94	1.09	25.75	232.0	300.	12.00	34.24	26.02	207.0	0.944		
282.	12.45	34.26	5.00	1.78	25.95	213.6	400.	9.83	34.12	26.31	180.1	1.139		
305.	11.90	34.24	4.86		26.04	205.4	500.	7.29	34.08	26.67	145.4	1.303		
407.	9.68	34.11	4.66	1.20	26.33	178.4	600.	5.79	34.19	26.96	118.4	1.437		
505.	7.17	34.08	2.80	2.01	26.69	143.7	700.	4.98	34.28	27.13	102.3	1.548		
610.	5.69	34.20	1.11	2.69	26.98	116.1	800.	4.51	34.35	27.24	92.2	1.646		
813.	4.48	34.36	0.90	3.13	27.25	91.3	1000.	4.00	34.48	27.40	78.2	1.819		
1016.	3.97	34.49	1.12	2.98	27.41	77.4	1200.	3.50	34.52	27.48	71.1	1.970		
1217.	3.46	34.52	1.32	2.51	27.48	70.7	1500.	2.90	34.58	27.58	61.5	2.172		
1520.	2.86	34.58	1.64		27.58	61.1								
CROMWELL		12, STATION		17, 23-24N LAT, 150-58W LONG, JAN. 13, 1965, 1600 G.C.T.					VIS. 2		CLOUD TYPE		COVER	
DRY BULB 22.9		WET BULB 20.2		WIND SPEED 24, DIR. 16		BAR. 12			WEATHER 02					
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.07	35.15		24.05	387.4	0.	23.07	35.15	24.05	387.4	0.000			
10.	23.07	35.15		24.05	387.8	10.	23.07	35.15	24.05	387.8	0.039			
30.	23.07	35.15		24.05	388.6	20.	23.07	35.15	24.05	388.3	0.078			
49.	23.03	35.15		24.06	388.2	30.	23.07	35.15	24.05	388.6	0.117			
75.	22.59	35.33		24.32	364.2	50.	23.02	35.16	24.07	387.4	0.195			
99.	22.15	35.29		24.42	356.1	75.	22.59	35.33	24.32	364.2	0.290			
124.	20.68	35.25		24.79	321.2	100.	22.09	35.29	24.43	354.7	0.381			
149.	19.88	35.18		24.95	306.8	150.	19.84	35.17	24.96	306.2	0.547			
172.	18.94	35.04		25.09	294.4	200.	17.88	34.89	25.23	291.2	0.695			
187.	18.59	35.00		25.14	289.4	250.	14.98	34.48	25.59	247.4	0.828			
220.	16.59	34.68		25.38	267.0	300.	12.24	34.24	25.97	211.9	0.944			
246.	15.26	34.51		25.56	251.0	400.	9.24	34.08	26.38	173.1	1.139			
271.	13.55	34.34		25.79	228.8	500.	6.59	34.03	26.74	138.9	1.296			
295.	12.43	34.25		25.94	214.3	600.	5.37	34.13	26.97	116.8	1.425			
393.	9.46	34.09		26.35	175.9	700.	4.78	34.26	27.13	101.3	1.535			
491.	6.75	34.03		26.71	141.3	800.	4.48	34.37	27.26	90.3	1.632			
589.	5.46	34.12		26.95	118.8	1000.	3.90	34.49	27.41	76.6	1.801			
785.	4.53	34.36		27.24	91.6	1200.	3.39	34.55	27.51	67.4	1.947			
982.	3.95	34.48		27.40	77.6									
1179.	3.44	34.54		27.50	68.7									
1475.	2.83	34.58		27.59	60.5									

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	12, STATION	18, 21-56N LAT, 150-54W LONG, JAN. 14, 1965, 0200 G.C.T.						VIS. 6	CLOUD TYPE 6, COVER 7			
DRY BULB 24.1	WET BULB 21.1	WIND SPEED 18, DIR. 16	BAR. 11	WEATHER 02								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.62	34.88			23.68	422.2	0.	23.62	34.88	23.68	422.2	0.000
10. <sup>A</sup>	23.65	34.88			23.67	423.4	10.	23.65	34.88	23.67	423.4	0.043
30. <sup>A</sup>	23.58	34.94			23.74	417.9	20.	23.64	34.91	23.70	421.5	0.085
50.	23.36	34.99			23.94	408.9	30.	23.58	34.94	23.74	417.9	0.127
75.	23.18	35.04			23.93	401.3	50.	23.36	34.99	23.84	408.9	0.211
100.	22.82	35.07			24.06	390.2	75.	23.19	35.04	23.93	401.6	0.313
125.	21.68	35.29			24.55	344.5	100.	22.82	35.07	24.06	390.2	0.413
151.	19.34	34.97			24.93	308.6	150.	19.43	34.99	24.92	309.6	0.589
175.	18.36	34.86			25.09	293.6	200.	16.67	34.65	25.34	270.8	0.735
190.	17.36	34.74			25.25	279.3	250.	12.95	34.23	25.83	224.6	0.860
223.	15.02	34.43			25.55	251.1	300.	10.49	34.08	26.17	192.0	0.965
250.	12.95	34.23			25.83	224.6	400.	7.78	34.04	26.57	153.7	1.139
276.	11.67	34.14			26.00	207.8	500.	5.99	34.09	26.86	126.7	1.281
300.	10.49	34.08			26.17	192.0	600.	5.44	34.23	27.04	110.4	1.401
399.	7.80	34.04			26.57	154.1	700.	4.98	34.35	27.18	97.2	1.506
499.	6.00	34.09			26.86	126.9	800.	4.60	34.43	27.29	87.3	1.599
598.	5.45	34.23			27.03	110.7	1000.	4.05	34.51	27.41	76.6	1.765
796.	4.61	34.43			27.29	87.6	1200.	3.52	34.55	27.50	68.9	1.912
995.	4.06	34.51			27.41	76.8						
1194.	3.57	34.54			27.49	69.8						
1493.	2.84	34.59			27.59	60.0						

CROMWELL	12, STATION	19, 20-29N LAT, 151- 2W LONG, JAN. 14, 1965, 1100 G.C.T.						VIS.	CLOUD TYPE , COVER			
DRY BULB	23.0	WET BULB	21.0	WIND SPEED	12, DIR.	17	RAR.	13	WEATHER 03			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.86	34.79			23.54	435.4	0.	23.86	34.79	23.54	435.4	0.000
10.	23.88	34.79			23.54	436.3	10.	23.88	34.79	23.54	436.3	0.044
30. <sup>A</sup>	23.86	34.80			23.55	435.8	20.	23.88	34.79	23.53	437.1	0.088
51.	23.72	34.96			23.71	421.2	30.	23.86	34.80	23.55	435.8	0.132
75.	23.37	35.13			23.95	400.1	50.	23.73	34.95	23.70	422.1	0.218
100.	22.74	35.16			24.15	381.5	75.	23.37	35.13	23.95	400.1	0.322
124.	21.25	35.19			24.59	340.3	100.	22.74	35.16	24.15	381.5	0.420
150.	20.29	35.16			24.83	318.6	150.	20.29	35.16	24.83	318.6	0.597
173.	19.30	35.05			25.00	302.6	200.	17.62	34.81	25.24	280.3	0.748
187.	18.49	34.94			25.12	291.3	250.	13.45	34.30	25.78	229.3	0.876
221.	16.00	34.59			25.45	260.5	300.	11.10	34.14	26.10	198.6	0.984
247.	13.67	34.32			25.75	232.1	400.	7.74	34.07	26.60	151.1	1.160
272.	12.11	34.19			25.96	212.2	500.	5.97	34.10	26.86	126.1	1.300
297.	11.22	34.14			26.09	200.2	600.	5.15	34.22	27.06	107.5	1.418
394.	7.89	34.07			26.58	153.1	700.	4.69	34.35	27.22	93.6	1.520
494.	6.04	34.09			26.85	127.4	800.	4.42	34.45	27.32	84.0	1.610
591.	5.20	34.21			27.05	108.9	1000.	3.92	34.51	27.43	74.9	1.770
788.	4.65	34.44			27.31	84.8	1200.	3.43	34.56	27.51	67.5	1.915
985.	3.96	34.51			27.42	75.5						
1182.	3.45	34.55			27.51	68.1						
1479.	2.87	34.59			27.59	60.3						

CROMWELL	12, STATION	20, 18-59N LAT, 151- 6W LONG, JAN. 14, 1965, 2000 G.C.T.						VIS. 6	CLOUD TYPE 9, COVER 8			
DRY BULB	23.3	WET BULB	20.9	WIND SPEED	16, DIR.	17	BAR.	13	WEATHER 15			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.85	34.48			23.31	457.5	0.	23.85	34.48	23.31	457.5	0.000
10.	23.88	34.48			23.30	458.7	10.	23.88	34.48	23.30	458.7	0.046
30. <sup>A</sup>	23.87	34.48			23.31	459.2	20.	23.88	34.48	23.30	459.1	0.092
51.	23.87	34.48			23.31	460.0	30.	23.87	34.48	23.31	459.2	0.139
75. <sup>A</sup>	23.00	34.75			23.76	417.2	50.	23.88	34.48	23.30	460.4	0.231
84.	22.19	34.90			24.11	386.7	75.	23.00	34.75	23.76	417.2	0.342
99.	21.13	34.89			24.39	358.0	100.	21.08	34.89	24.41	356.8	0.439
124.	20.30	34.92			24.64	335.3	150.	19.90	35.08	24.87	314.6	0.608
150.	19.90	35.08			24.87	314.6	200.	17.31	36.72	25.24	280.3	0.758
175.	18.73	34.94			25.06	296.7	250.	14.01	34.34	25.70	237.3	0.889
189.	17.92	34.80			25.16	287.9	300.	10.74	34.15	26.18	191.3	0.997
221.	16.07	34.57			25.42	263.5	400.	8.20	34.24	26.67	145.0	1.167
246.	14.26	34.37			25.65	240.3	500.	6.38	34.21	26.90	123.0	1.302
272.	12.65	34.23			25.89	219.4	600.	5.88	34.34	27.06	108.4	1.419
294.	11.02	34.15			26.13	195.9	700.	5.39	34.41	27.18	97.7	1.523
390.	8.45	34.25			26.64	148.1	800.	4.95	34.46	27.27	89.8	1.618
488.	6.49	34.20			26.88	125.1	1000.	4.18	34.51	27.40	78.5	1.788
586.	5.96	34.32			27.04	110.4	1200.	3.57	34.56	27.50	69.2	1.938
779.	5.04	34.45			27.26	91.3						
974.	4.27	34.50			27.38	79.9						
1169.	3.66	34.55			27.48	70.5						
1466.	2.94	34.58			27.58	61.8						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	12, STATION	21, 17-26N LAT, 151- 2W LONG, JAN. 15, 1965, 0400 G.C.T.											
DRY BULB 23.9	WET BULB 21.1	WIND SPEED 13, DIR. 16		BAR. 11	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 1						
DEPTH	TEMP.	SAL.	GXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.38	34.32			23.04	484.0	0.	24.38	34.32	23.04	484.0	0.000	
11.	24.34	34.34			23.06	481.8	10.	24.34	34.34	23.06	482.2	0.049	
30. <sup>A</sup>	24.20	34.48			23.21	468.5	20.	24.27	34.40	23.13	476.1	0.097	
50.	24.18	34.64			23.34	457.2	30.	24.20	34.48	23.21	468.5	0.145	
75.	24.34	34.91			23.49	443.3	50.	24.18	34.64	23.34	457.2	0.238	
99.	22.83	35.08			24.05	391.1	75.	24.34	34.91	23.49	443.3	0.351	
123.	20.94	35.08			24.59	340.2	100.	22.80	35.08	24.07	388.6	0.456	
148.	19.76	35.01			24.85	316.0	150.	19.67	35.00	24.87	314.3	0.633	
171.	18.33	34.86			25.10	292.7	200.	15.44	34.49	25.50	255.3	0.777	
185.	16.84	34.65			25.30	273.8	250.	11.30	34.16	26.09	198.7	0.891	
218.	13.88	34.34			25.72	234.0	300.	9.82	34.14	26.33	176.5	0.986	
244.	11.60	34.18			26.05	202.9	400.	8.15	34.29	26.72	140.4	1.146	
269.	10.62	34.14			26.19	189.1	500.	7.34	34.41	26.93	121.8	1.278	
293.	9.94	34.13			26.30	179.5	600.	6.44	34.44	27.08	107.9	1.394	
390.	8.25	34.28			26.69	142.9	700.	5.76	34.47	27.18	98.5	1.498	
488.	7.45	34.40			26.90	123.8	800.	5.25	34.48	27.26	91.7	1.594	
585.	6.55	34.44			27.06	109.6	1000.	4.47	34.52	27.38	81.0	1.769	
781.	5.34	34.48			27.24	92.9	1200.	3.73	34.54	27.47	72.1	1.924	
977.	4.56	34.52			27.37	82.1	1500.	2.96	34.58	27.58	61.9	2.120	
1174.	3.81	34.54			27.46	73.1	2000.	2.16	34.64	27.69	50.8	2.414	
1472.	3.02	34.58			27.57	62.8							
2019.	2.14	34.64			27.69	50.6							
2048.	2.10	34.64			27.70	50.2							
2417.	1.82	34.66			27.74	46.7							
CROMWELL	12, STATION	22, 15-58N LAT, 151- 0W LONG, JAN. 15, 1965, 1500 G.C.T.											
DRY BULB 23.0	WET BULB 21.4	WIND SPEED 05, DIR. 16		BAR. 11	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 1						
DEPTH	TEMP.	SAL.	GXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.51	34.09			22.82	504.3	0.	24.51	34.09	22.82	504.3	0.000	
10.	24.22	34.08			22.81	505.7	10.	24.52	34.08	22.81	505.7	0.051	
30. <sup>A</sup>	24.51	34.07			22.81	506.9	20.	24.52	34.07	22.81	506.9	0.102	
51.	24.47	34.07			22.82	506.5	30.	24.51	34.07	22.81	506.9	0.153	
75.	23.28	34.64			23.60	432.9	50.	24.48	34.06	22.81	507.3	0.255	
99.	21.90	34.78			24.10	386.2	75.	23.28	34.64	23.60	432.9	0.373	
124.	20.17	34.95			24.70	329.9	100.	21.83	34.79	24.13	383.7	0.476	
148.	19.09	34.93			24.96	305.2	150.	18.87	34.90	25.00	301.9	0.649	
172.	16.04	34.55			25.41	262.8	200.	13.01	34.26	25.83	222.5	0.781	
187.	14.12	34.35			25.68	237.3	250.	10.55	34.24	26.28	180.3	0.883	
220.	11.87	34.21			26.02	205.0	300.	9.64	34.32	26.51	159.8	0.969	
244.	10.84	34.24			26.23	185.0	400.	8.70	34.47	26.77	135.7	1.118	
269.	9.82	34.24			26.41	168.3	500.	7.37	34.47	26.97	117.8	1.246	
294.	9.68	34.31			26.49	161.4	600.	6.44	34.46	27.09	106.8	1.359	
393.	8.79	34.47			26.76	137.3	700.	5.75	34.47	27.19	97.9	1.462	
491.	7.47	34.47			26.96	119.0	800.	5.22	34.49	27.27	90.7	1.558	
589.	6.53	34.46			27.08	107.9	1000.	4.42	34.53	27.39	79.7	1.730	
786.	5.29	34.49			27.26	91.6	1200.	3.77	34.56	27.48	71.5	1.883	
983.	4.48	34.53			27.38	80.4							
1181.	3.82	34.55			27.47	72.6							
1476.	3.14	34.59			27.57	63.5							
CROMWELL	12, STATION	23, 14-30N LAT, 151- 4W LONG, JAN. 16, 1965, 0200 G.C.T.											
DRY BULB 24.9	WET BULB 22.0	WIND SPEED 07, DIR. 14		BAR. 11	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 3						
DEPTH	TEMP.	SAL.	GXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.29	34.07			22.58	528.0	0.	25.28	34.07	22.58	528.0	0.000	
10.	24.83	34.07			22.71	515.3	10.	24.83	34.07	22.71	515.3	0.053	
20. <sup>A</sup>	24.80	34.07			22.72	514.8	20.	24.80	34.07	22.72	514.8	0.104	
30. <sup>A</sup>	24.78	34.07			22.73	514.6	30.	24.78	34.07	22.73	514.6	0.156	
50.	24.78	34.07			22.73	515.4	50.	24.78	34.07	22.73	515.4	0.260	
76.	24.80	34.07			22.72	517.0	75.	24.86	34.06	22.70	518.9	0.390	
101.	19.09	34.65			24.75	323.9	100.	19.34	34.63	24.67	331.6	0.497	
126.	16.83	34.62			25.28	273.9	150.	13.94	34.37	25.73	231.0	0.639	
152.	13.70	34.35			25.77	227.9	200.	11.25	34.46	26.33	175.0	0.742	
177.	11.63	34.28			26.12	194.5	250.	10.47	34.60	26.58	152.1	0.824	
192.	11.40	34.40			26.26	181.9	300.	9.62	34.57	26.70	141.1	0.890	
226.	10.76	34.59			26.52	157.5	400.	8.67	34.58	26.86	127.5	1.033	
253.	10.43	34.60			26.58	151.7	500.	7.57	34.53	26.99	115.9	1.156	
278.	9.96	34.59			26.66	145.0	600.	6.70	34.52	27.10	106.0	1.268	
304.	9.56	34.57			26.71	140.5	700.	5.96	34.53	27.21	96.1	1.370	
405.	8.63	34.58			26.07	126.9	800.	5.33	34.55	27.30	88.0	1.464	
506.	7.50	34.53			27.00	115.2	1000.	4.42	34.50	27.37	81.9	1.435	
607.	6.65*	34.52			27.11	105.4	1200.	3.86	34.56	27.48	72.1	1.791	
809.	5.23	34.55			27.31	87.3	1500.	3.10	34.60	27.58	62.7	1.996	
1011.	4.38	34.30			27.37	81.7							
1212.	3.83	34.57			27.48	71.5							
1515.	3.07	34.60			27.58	62.2							

FROM BT DATA  
\*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 12, STATION 24, 13- ON LAT. 150-59W LONG, JAN. 16, 1965, 1200 G.C.T.		DRY BULB 24.0 WET BULB 21.5 WIND SPEED 10, DIR. 09		BAR. 12 WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.98	34.17			22.74	512.4	24.98	34.17	22.74	512.4	0.000		
10.	24.98	34.17			22.74	512.4	24.98	34.17	22.74	512.4	0.052		
30. <sup>A</sup>	24.90	34.17			22.77	510.9	24.94	34.17	22.75	511.8	0.103		
51.	24.85	34.17			22.78	510.3	24.90	34.17	22.77	510.9	0.155		
77.	18.65	34.58			24.81	317.5	24.90	34.17	22.76	512.0	0.258		
101.	15.35	34.43			25.47	254.5	19.20	34.55	24.65	332.9	0.364		
126.	13.76	34.40			25.79	224.7	100.	15.45	34.44	25.46	255.8	0.438	
151.	11.55	34.42			26.24	182.2	150.	11.63	34.42	26.23	183.7	0.549	
176.	11.35	34.61			26.43	165.2	200.	10.79	34.61	26.53	155.6	0.635	
191.	10.92	34.60			26.50	158.7	250.	10.19	34.65	26.67	143.9	0.710	
224.	10.57	34.66			26.61	149.0	300.	9.73	34.64	26.74	138.0	0.781	
251.	10.18	34.65			26.67	143.7	400.	8.58	34.59	26.88	125.3	0.914	
277.	9.94	34.65			26.71	140.3	500.	7.46	34.54	27.01	113.8	1.035	
301.	9.72	34.64			26.74	137.9	600.	6.52	34.51	27.12	104.2	1.145	
400.	8.58	34.59			26.88	125.3	700.	5.79	34.52	27.22	95.0	1.245	
501.	7.45	34.56			27.01	113.7	800.	5.22	34.54	27.31	87.2	1.337	
600.	6.52	34.51			27.12	104.2	1000.	4.42	34.55	27.41	78.4	1.505	
800.	5.22	34.54			27.31	87.2	1200.	3.79	34.58	27.50	70.1	1.655	
1000.	4.42	34.55			27.41	78.4	1500.	3.09	34.61	27.59	61.6	1.856	
1200.	3.79	34.58			27.50	70.1							
1500.	3.09	34.61			27.59	61.6							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.11

CROMWELL 12, STATION 25, LL-31N LAT, 150-56W LONG, JAN. 16, 1965, 2100 G.C.T.		DRY BULB 25.1 WET BULB 22.1 WIND SPEED 16, DIR. 06		BAR. 13 WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.04	34.34			22.85	501.5	0.	25.04	34.34	22.85	501.5	0.000	
9.	25.04	34.33			22.84	502.6	10.	25.04	34.33	22.88	502.4	0.051	
30. <sup>A</sup>	25.00	34.44			22.94	494.3	20.	25.03	34.38	22.88	499.4	0.101	
49.	24.92	34.55			23.05	484.8	30.	25.00	34.44	22.94	494.3	0.151	
74.	17.09	34.59			25.19	281.0	50.	24.66	34.55	23.13	476.9	0.249	
98.	13.06	34.37			25.91	212.5	75.	16.87	34.57	25.24	276.5	0.344	
122.	10.98	34.21			26.18	186.9	100.	12.81	34.35	25.94	209.5	0.405	
147.	11.11	34.55			26.42	164.7	150.	11.07	34.56	26.44	163.1	0.499	
170.	10.74	34.60			26.53	155.1	200.	10.44	34.65	26.62	146.8	0.577	
184.	10.58	34.64			26.59	149.8	250.	9.98	34.66	26.71	139.5	0.649	
218.	10.29	34.65			26.65	144.9	300.	9.58	34.66	26.78	134.2	0.718	
245.	10.02	34.66			26.70	140.2	400.	8.56	34.61	26.90	123.8	0.848	
269.	9.82	34.66			26.74	137.4	500.	7.50	34.57	27.03	112.4	0.968	
293.	9.64	34.66			26.77	134.9	600.	6.58	34.54	27.13	102.9	1.076	
391.	8.66	34.61			26.89	124.9	700.	5.84	34.53	27.23	94.6	1.176	
492.	7.58	34.57			27.02	113.2	800.	5.26	34.54	27.30	87.7	1.268	
592.	6.65	34.54			27.13	103.7	1000.	4.49	34.56	27.41	78.5	1.437	
794.	5.29	34.54			27.30	88.0	1200.	3.74	34.58	27.50	69.5	1.586	
996.	4.51	34.56			27.40	78.7	1500.	3.05	34.60	27.58	61.8	1.786	
1196.	3.75	34.58			27.50	69.6	2000.	2.19	34.64	27.69	51.0	2.073	
1499.	3.05	34.60			27.58	61.8	2500.	1.91	34.66	27.73	48.2	2.326	
1951.	2.24	34.64			27.69	51.5	3000.	1.71	34.67	27.75	46.2	2.567	
2326.	1.99	34.65			27.71	49.2							
2703.	1.83	34.67			27.74	47.1							
3459.	1.60	34.68			27.77	45.6							

CROMWELL 12, STATION 26, 10- 54 LAT, 148- 34 LONG, JAN. 17, 1965, 1700 G.C.T.		DRY BULB 24.5 WET BULB 22.7 WIND SPEED 16, CIR. 04		BAR. 13 WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.74	34.46	4.94		22.73	513.4	0.	25.74	34.46	22.73	513.4	0.000	
10.	25.78	34.46	4.64	1.08	22.72	514.9	10.	25.78	34.46	22.72	514.9	0.052	
20. <sup>A</sup>	25.66	34.46			22.75	511.8	20.	25.66	34.46	22.75	511.8	0.103	
30. <sup>A</sup>	25.00	34.49			22.98	490.7	30.	25.00	34.49	22.98	490.7	0.154	
51.	19.39	34.70	4.95	0.57	24.71	325.9	50.	19.71	34.69	24.62	334.2	0.237	
76.	14.32	34.31	4.01	0.96	25.61	241.2	75.	14.48	34.33	25.59	243.0	0.310	
91.	12.7:	34.27	2.64		25.39	214.3	100.	12.29	34.35	26.04	199.9	0.366	
126.	11.63	34.63	0.44		26.39	167.6	150.	11.17	34.72	26.54	153.5	0.455	
151.	11.16	34.72	0.40		26.55	153.2	200.	10.54	34.72	26.66	143.9	0.530	
177.	10.82	34.73	0.36		26.62	147.1	250.	10.09	34.70	26.72	138.5	0.601	
191.	10.63	34.72	0.45	2.44	26.64	144.9	300.	9.78	34.70	26.78	134.3	0.670	
226.	10.33	34.71	0.41	2.76	26.69	141.3	400.	8.92	34.64	26.87	126.7	0.801	
250.	10.09	34.70	0.60	2.51	26.72	138.5	500.	7.90	34.59	26.99	116.5	0.924	
278.	9.53	34.71	0.64	2.40	26.76	135.7	600.	6.91	34.54	27.09	107.3	1.037	
303.	9.76	34.70	0.39	7.23	26.78	134.2	700.	6.08	34.53	27.19	98.1	1.141	
404.	8.98	34.64	0.48	2.38	26.88	126.4	800.	5.41	34.54	27.28	89.8	1.236	
505.	7.85	34.59	0.19	2.64	26.99	116.0	1000.	4.48	34.56	27.41	78.5	1.406	
605.	6.86	34.54	0.36	3.33	27.10	106.8	1200.	3.80	34.58	27.49	70.3	1.557	
810.	5.35	34.54	0.64	2.67	27.29	89.0	1500.	3.03	34.60	27.58	61.7	1.758	
1009.	4.45	34.56	1.12	2.87	27.41	78.1							
1210.	3.77	34.58	1.47	3.13	27.50	70.0							
1512.	3.01	34.60	1.80	3.27	27.59	61.4							

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 12, STATION 27, 11-30N LAT, 148-3W LONG, JAN. 18, 1965, 0100 G.C.T.												
DRY BULB 24.7 WET BULB 22.3 WIND SPEED 12, DIR. 04 BAR. 12 WEATHER 02												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.74	34.20	4.90	0..8	22.84	503.0	0.	24.74	34.20	22.84	503.0	0.000
10. <sup>A</sup>	24.72	34.20	5.02	0..8	22.84	502.8	10.	24.72	34.20	22.84	502.8	0.051
30. <sup>A</sup>	24.42	34.27	5.20	0..1	22.99	489.9	20.	24.65	34.22	22.88	500.1	0.101
52.	22.94	34.59	5.20	0..1	23.66	426.3	30.	24.42	34.27	22.99	489.9	0.151
78.	20.25	34.92	4.94	0.39	24.65	332.4	50.	23.11	34.56	23.59	433.4	0.244
103.	16.04	34.48	3.89	0.88	25.36	265.8	75.	20.63	34.90	24.54	343.2	0.342
128.	13.38	34.45	1.54	1.24	25.91	213.6	100.	16.55	34.54	25.29	272.4	0.419
154.	12.09	34.65	0.38	2.62	26.33	174.4	150.	12.22	34.62	26.27	179.3	0.533
179.	11.38	34.72	0.30	2.44	26.51	157.7	200.	11.10	34.73	26.57	152.4	0.617
194.	11.16	34.73	0.34	1.98	26.56	153.5	250.	10.59	34.72	26.65	145.4	0.692
228.	10.84	34.71	1.38	2.47	26.61	148.6	300.	10.11	34.71	26.73	139.0	0.764
253.	10.55	34.72	0.44	1.86	26.66	144.9	400.	9.38	34.68	26.83	131.3	0.900
281.	10.26	34.72	0.43	2.16	26.71	140.6	500.	8.57	34.63	26.91	124.3	1.029
306.	10.07	34.71	0.48	2.68	26.73	138.7	600.	7.60	34.57	27.02	115.0	1.150
406.	9.31	34.68	0.33	2.38	26.83	130.9	700.	6.72	34.55	27.12	105.7	1.261
509.	8.49	34.62	0.24	3.13	26.92	123.7	800.	5.98	34.54	27.21	97.3	1.364
610.	7.50	34.57	0.31	3.04	27.03	114.0	1000.	4.87	34.55	27.35	84.2	1.548
812.	5.90	34.54	0.56	2.67	27.22	96.4	1200.	4.01	34.57	27.46	73.8	1.708
1013.	4.81	34.55	1.05	2.35	27.36	83.5	1500.	3.17	34.60	27.57	63.5	1.917
1217.	3.95	34.57	1.37	2.48	27.47	73.0						
1518.	3.14	34.60	1.77	2.84	27.57	63.1						

CROMWELL 12, STATION 28, 13- ON LAT, 148-1W LONG, JAN. 18, 1965, 1100 G.C.T.												
DRY BULB 23.8 WET BULB 21.0 WIND SPEED 17, DIR. 05 BAR. 15 WEATHER 01												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.39	34.03			22.81	505.2	0.	24.39	34.03	22.81	505.2	0.000
9.	24.37	34.03	5.02	0.56	22.82	505.0	10.	24.37	34.03	22.82	505.0	0.051
30. <sup>A</sup>	24.38	34.03			22.82	506.1	20.	24.37	34.03	22.82	505.4	0.102
48.	24.38	34.03	4.99	0.88	22.82	506.7	30.	24.38	34.03	22.82	506.1	0.153
72.	24.25	34.04	4.95	0.44	22.86	503.2	50.	24.54	34.02	22.76	511.9	0.255
96.	15.20	34.42	3.06	1.51	25.30	251.9	75.	23.16	34.10	23.22	468.8	0.379
100. <sup>A</sup>	14.40	34.41			25.67	236.2	100.	14.40	34.41	25.67	236.2	0.468
119.	12.67	34.38	1.85	2.00	26.00	204.9	150.	11.33	34.45	26.30	176.3	0.571
144.	11.35	34.39	1.72	2.42	26.26	180.6	200.	10.77	34.61	26.53	155.6	0.655
167.	11.40	34.60	0.63	2.69	26.41	166.6	250.	10.17	34.64	26.66	144.7	0.731
181.	11.14	34.61	0.65	2.56	26.47	161.6	300.	9.89	34.65	26.71	140.2	0.803
213.	10.54	34.61	0.41	2.76	26.57	151.9	400.	8.67	34.59	26.87	126.8	0.937
239.	10.24	34.63	0.30	2.80	26.64	146.0	500.	7.62	34.53	26.98	116.8	1.060
263.	10.12	34.64	0.28	2.78	26.67	143.7	600.	6.67	34.51	27.10	106.5	1.173
287.	10.02	34.65	0.19	2.44	26.69	141.8	700.	5.86	34.50	27.20	97.0	1.276
382.	8.87	34.60	0.34	2.82	26.85	128.7	800.	5.25	34.51	27.28	89.5	1.370
479.	7.83	34.54	0.64	3.05	26.96	118.9	1000.	4.50	34.54	27.39	79.7	1.541
574.	6.91	34.51	0.62	2.98	27.07	109.3	1200.	3.81	34.57	27.48	71.3	1.694
765.	5.42	34.51	0.58		27.26	91.6						
958.	4.66	34.54	0.99	2.96	27.37	81.7						
1150.	3.95	34.56	1.16	2.58	27.46	73.2						
1441.	3.13	34.59	1.65	2.60	27.57	63.1						

TEMPERATURE ERROR TERM AT 50. METERS IS 0.11  
 TEMPERATURE ERROR TCRM AT 75. METERS IS 0.30

CROMWELL 12, STATION 29, 14-30N LAT, 148-2W LONG, JAN. 18, 1965, 2000 G.C.T.												
DRY BULB 24.1 WET BULB 21.1 WIND SPEED 23, DIR. 05 BAR. 18 WEATHER 02												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.22	33.94	5.07	0.28	22.80	506.9	0.	24.22	33.94	22.80	507.4	0.051
10.	24.25	33.95	5.12	0.28	22.80	507.4	10.	24.25	33.95	22.80	507.4	0.051
30. <sup>A</sup>	24.14	34.05			22.90	497.8	20.	24.21	34.00	22.84	503.5	0.102
50. <sup>A</sup>	23.75	34.12			23.01	488.2	30.	24.14	34.05	22.90	497.8	0.152
54.	23.12	34.32	5.07	0.40	23.40	450.8	50.	23.95	34.12	23.01	488.2	0.252
74.	21.37	34.76	5.06	0.36	24.24	371.4	75.	21.25	34.77	24.27	368.7	0.360
98.	19.83	34.91	5.17	0.37	24.76	323.3	100.	19.77	34.92	24.78	321.0	0.447
123.	18.54	34.89	4.64	0.48	25.07	294.0	150.	14.56	34.32	25.57	247.1	0.590
148.	14.76	34.34	3.86	1.04	25.53	250.1	200.	11.03	34.24	26.20	187.0	0.699
170.	12.88	34.26	3.05	1.33	25.86	219.0	250.	10.20	34.44	26.50	159.7	0.786
185.	11.68	34.23	2.94	1.80	26.07	199.3	300.	9.73	34.53	26.65	145.7	0.863
218.	10.64	34.30	2.42	2.09	26.31	176.6	400.	8.43	34.56	26.89	125.0	1.000
243.	10.30	34.41	1.48	2.46	26.46	163.2	500.	7.38	34.51	27.00	115.0	1.121
267.	9.97	34.49	1.00	1.96	26.58	152.3	600.	6.71	34.51	27.09	106.8	1.233
296.	9.77	34.53	0.64	2.11	26.64	146.7	700.	5.97	34.52	27.19	97.7	1.336
386.	8.61	34.57	0.48	2.87	26.86	126.9	800.	5.33	34.52	27.28	89.9	1.431
481.	7.52	34.51	0.56	2.73	26.98	116.6	1000.	4.45	34.54	27.40	79.1	1.602
576.	6.89	34.51	0.52	2.91	27.07	109.0	1200.	3.71	34.57	27.49	70.2	1.753
765.	5.52	34.52	0.54	3.22	27.25	92.1						
956.	4.63	34.54	0.86	3.18	27.37	81.3						
1146.	3.89	34.56	1.18	2.33	27.47	72.4						
1432.	3.06	34.59	1.61	3.04	27.57	62.2						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 12, STATION 30, 16-2N LAT, 148-5W LONG, JAN. 19, 1965, 0500 G.C.T.				WEATHER 01				VIS. 7 CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.10	34.11	4.98	0.32	22.96	491.2	0.	24.10	34.11	22.96	491.2	0.000	
11.	24.14	34.10	5.18	0.32	22.94	493.5	10.	24.14	34.10	22.94	493.4	0.050	
30. <sup>A</sup>	24.08	34.17			23.01	487.5	20.	24.13	34.12	22.96	491.8	0.099	
50.	23.92	34.29	5.02	0.48	23.15	475.1	30.	24.08	34.17	23.01	487.5	0.149	
73.	22.72	34.70	5.25	0.91	23.81	413.1	50.	23.92	34.29	23.15	475.1	0.245	
97.	20.67	34.89	5.07	0.36	24.52	346.0	75.	22.54	34.72	23.88	406.6	0.357	
123.	19.79	34.92	5.02	0.35	24.78	322.4	100.	20.54	34.90	24.56	342.0	0.451	
146.	18.76	34.86	4.62	0.46	24.99	302.2	150.	18.48	34.82	25.03	298.5	0.612	
171.	16.54	34.55	4.24	0.92	25.30	273.8	200.	13.32	34.28	25.79	227.1	0.745	
185.	14.83	34.37	3.75	1.14	25.54	250.4	250.	10.33	34.22	26.31	177.6	0.847	
217.	11.98	34.24	2.78	1.80	26.02	204.8	300.	10.59	34.61	26.56	154.8	0.931	
242.	10.63	34.22	3.04	1.79	26.25	182.8	400.	8.94	34.53	26.75	135.2	1.077	
268.	10.02	34.29	2.28	2.15	26.41	167.9	500.	7.70	34.47	26.93	122.2	1.207	
291.	10.60	34.57	0.70	2.02	26.53	157.7	600.	6.75	34.46	27.05	111.1	1.325	
388.	9.11	34.54	0.46	2.81	26.76	137.1	700.	5.96	34.47	27.16	100.7	1.432	
484.	7.87	34.48	0.34	3.04	26.91	124.0	800.	5.34	34.50	27.26	92.1	1.529	
580.	6.93	34.46	0.34	2.37	27.02	113.3	1000.	4.53	34.54	27.38	80.8	1.704	
774.	5.48	34.49	0.54	3.36	27.24	93.9	1200.	3.86	34.57	27.48	72.1	1.859	
968.	4.64	34.53	0.80	3.29	27.37	82.3							
1162.	4.01	34.56	1.04	3.36	27.46	74.0							
1456.	3.18	34.59	1.43	2.69	27.56	63.9							

CROMWELL 12, STATION 31, 17-29N LAT, 147-59W LONG, JAN. 19, 1965, 1500 G.C.T.				WEATHER 03				VIS. 5 CLOUD TYPE 8, COVER 7					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.10	34.28	5.06	0.36	23.09	478.9	0.	24.10	34.28	23.09	479.1	0.048	
11. <sup>A</sup>	24.09	34.28	5.18	0.36	23.09	479.1	10.	24.09	34.28	23.09	479.4	0.097	
30. <sup>A</sup>	24.09	34.29			23.09	479.8	20.	24.09	34.28	23.09	479.8	0.145	
49.	24.09	34.29	5.03	0.33	23.10	479.8	30.	24.09	34.28	23.09	479.8	0.241	
76.	24.40	34.79	3.00	0.34	23.38	453.7	50.	24.41	34.77	23.37	455.3	0.359	
99.	22.33	34.78	5.30	0.56	23.98	397.7	75.	22.26	34.78	24.00	395.7	0.466	
124.	20.83	34.86	4.99	0.44	24.45	353.2	100.	22.26	34.42	27.10	105.5	1.390	
149.	19.59	34.89	4.81	0.68	24.80	320.5	150.	19.56	34.89	24.81	319.7	0.647	
172.	18.45	34.81	4.60	0.52	25.03	299.2	200.	15.12	34.42	25.52	253.4	0.791	
187.	16.62	34.57	4.24	0.64	25.29	274.7	250.	11.13	34.16	26.12	196.3	0.904	
220.	13.12	34.26	4.29	0.89	25.82	224.9	300.	9.28	34.14	26.42	167.5	0.996	
247.	11.26	34.16	4.13	1.41	26.09	195.3	400.	7.40	34.21	26.76	135.7	1.149	
272.	10.33	34.15	3.58	2.09	26.25	183.5	500.	7.01	34.39	26.96	118.2	1.277	
296.	9.40	34.14	3.52	1.71	26.40	169.4	600.	6.15	34.42	27.10	105.5	1.390	
395.	7.43	34.20	3.31	2.60	26.75	136.8	700.	5.59	34.46	27.20	96.7	1.492	
495.	7.05	34.39	0.60	26.95	118.9	800.	5.18	34.49	27.27	90.2	1.587		
593.	6.19	34.42	0.68	3.00	27.09	106.2	1000.	4.35	34.51	27.38	80.3	1.759	
789.	5.23	34.49	0.79	3.00	27.27	90.9	1200.	3.70	34.54	27.48	71.6	1.913	
987.	4.40	34.51	0.98	3.07	27.38	80.9							
1185.	3.76	34.55	1.17	3.19	27.47	71.9							
1480.	2.99	34.58	1.53	3.11	27.57	62.4							

CROMWELL 12, STATION 32, 19- IN LAT, 147-57W LONG, JAN. 19, 1965, 2300 G.C.T.				WEATHER 02				VIS. 7 CLOUD TYPE 8, COVER 5					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.15	34.27	5.02	1.25	23.07	481.1	0.	24.15	34.27	23.07	481.1	0.000	
10. <sup>A</sup>	24.15	34.27	5.10	1.25	23.07	481.5	10.	24.15	34.27	23.07	481.6	0.048	
30. <sup>A</sup>	24.12	34.27			23.08	481.4	20.	24.14	34.27	23.07	481.6	0.097	
51.	24.01	34.26	5.04	1.02	23.10	479.8	30.	24.12	34.27	23.08	481.4	0.145	
77.	23.87	34.39	5.21	0.29	23.24	467.5	50.	24.02	34.26	23.10	480.0	0.242	
102.	23.03	34.60	5.17		23.64	429.9	75.	23.89	34.38	23.22	469.1	0.362	
127.	20.90	34.79	5.06	0.37	24.38	360.2	100.	23.13	34.58	23.60	434.0	0.476	
153.	19.08	34.73	4.50	0.59	24.85	316.0	150.	19.28	34.79	24.81	320.2	0.666	
178.	17.36	34.70	4.61	0.60	25.22	281.8	200.	14.89	34.40	25.55	250.0	0.809	
193.	15.76	34.48	3.75	0.92	25.42	262.4	250.	10.33	34.15	26.25	183.0	0.918	
227.	11.84	34.19	3.20	1.40	26.01	206.1	300.	9.38	34.24	26.48	162.0	1.005	
254.	10.15	34.15	3.28	1.67	26.28	180.1	400.	7.17	34.20	26.79	133.3	1.154	
280.	9.41	34.10	3.76	1.48	26.37	172.2	500.	6.91	34.41	26.99	115.8	1.280	
305.	9.40	34.28	2.16	2.40	26.51	159.3	600.	6.33	34.47	27.11	104.5	1.391	
406.	7.01	34.13	1.78	2.65	26.79	132.5	700.	5.69	34.48	27.20	96.6	1.493	
508.	6.94	34.43	0.56	3.04	27.00	114.6	800.	5.14	34.48	27.27	90.5	1.588	
609.	6.26	34.47	0.50	3.13	27.12	103.7	1000.	4.34	34.52	27.39	79.8	1.760	
811.	5.08	34.46	0.72	3.14	27.28	89.9	1200.	3.71	34.55	27.48	71.5	1.913	
1013.	4.30	34.52	0.92	3.28	27.39	79.2	1500.	3.05	34.59	27.57	62.6	2.117	
1214.	3.67	34.55	1.16	2.96	27.48	71.0							
1516.	3.02	34.59	1.42	3.08	27.58	62.3							

FROM BY DATA

Table 2.--Continued

ORIGINAL DATA							DERIVED DATA							INTERPOLATED DATA								
CROMWELL	12, STATION	33, 20-30N LAT, 148-2W LONG, JAN. 20, 1965, 0900 G.C.T.	DRY BULB 23.0	WET BULB 20.1	WIND SPEED 20, DIR. 05	BAR. 20	WEATHER 03	VIS. 6	CLOUD TYPE 8, COVER 5	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH*
										0.	23.71	34.38	5.25	23.28	460.8	0.	23.71	34.38	23.28	460.8	0.000	
										11.	23.72	34.38	4.89	0.38	23.28	461.5	10.	23.72	34.38	23.27	461.6	0.046
										30. <sup>A</sup>	23.60	34.48		23.39	451.6	20.	23.68	34.42	23.32	457.9	0.093	
										53.	23.34	34.62	5.04	0.35	23.57	435.2	30.	23.60	34.48	23.39	451.6	0.139
										75. <sup>A</sup>	23.18	34.61		23.61	432.3	50.	23.37	34.61	23.55	437.1	0.228	
										78.	23.15	34.61	5.00	0.30	23.62	431.6	75.	23.18	34.61	23.61	432.3	0.338
										103.	23.18	35.06	5.02	0.24	23.95	400.9	100.	23.19	34.99	23.89	406.1	0.443
										129.	21.97	35.22	5.09	0.27	24.41	357.4	150.	20.55	35.06	24.68	332.3	0.629
										154.	20.30	35.03	4.84	0.33	24.72	328.4	200.	18.09	34.90	25.19	285.2	0.785
										179.	19.56	35.08	4.88	0.30	24.96	306.6	250.	13.84	34.30	25.70	236.9	0.916
										194.	18.49	34.96	4.90	0.40	25.14	290.1	300.	10.96	34.17	26.16	193.6	1.025
										229.	15.91	34.56	4.52	0.60	25.45	260.9	400.	8.61	34.31	26.66	146.7	1.197
										256.	13.26	34.24	3.98	1.21	25.77	230.0	500.	7.18	34.38	26.92	122.0	1.332
										280.	11.51	34.13	4.20	1.24	26.03	205.8	600.	6.54	34.44	27.06	110.0	1.449
										306.	10.87	34.19	3.20	1.81	26.19	190.6	700.	5.93	34.47	27.16	100.9	1.556
										407.	8.46	34.31	1.46	2.66	26.68	144.2	800.	5.36	34.68	27.24	93.5	1.654
										509.	7.10	34.38	0.68	3.13	26.94	120.6	1000.	4.56	34.51	27.36	83.2	1.833
										609.	6.50	34.44	0.38	3.07	27.07	109.2	1200.	3.89	34.56	27.45	74.5	1.993
										813.	5.29	34.68	0.56	3.07	27.25	92.6	1500.	3.14	34.56	27.54	66.0	2.206
										1014.	4.51	34.51	1.12	3.06	27.36	82.6						
										1216.	3.84	34.54	1.09	3.11	27.46	73.8						
										1519.	3.01	34.56	1.39	3.11	27.55	65.6						
CROMWELL	12, STATION	34, 22- ON LAT, 147-55W LONG, JAN. 20, 1965, 1800 G.C.T.	DRY BULB 22.8	WET BULB 22.0	WIND SPEED 16, DIR. 08	BAR. 20	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 2	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH*
										0.	23.51	34.57	5.06	23.48	441.5	0.	23.51	34.57	23.48	441.5	0.000	
										9.	23.54	34.57	5.10	0.28	23.47	442.7	10.	23.54	34.57	23.47	442.7	0.045
										30. <sup>A</sup>	23.54	34.57		23.47	443.5	20.	23.55	34.57	23.47	443.4	0.089	
										48.	23.50	34.60	5.02	0.31	23.49	442.3	30.	23.54	34.57	23.47	443.5	0.134
										71.	23.28	35.14	5.16	0.18	23.98	396.7	50.	23.53	34.65	23.53	438.5	0.223
										95.	23.15	35.20	5.13	0.21	24.06	389.7	75.	23.27	35.17	24.00	394.7	0.328
										119.	22.57	35.32	5.14	0.21	24.32	366.1	100.	23.07	35.23	24.11	385.6	0.426
										143.	21.42	35.27	5.10	0.20	24.60	339.7	150.	21.02	35.24	24.69	331.6	0.607
										166.	20.14	35.17	4.95	0.51	24.87	314.7	200.	18.53	34.97	25.14	290.3	0.763
										180.	19.57	35.13	4.90		24.99	303.7	250.	14.81	34.42	25.59	248.1	0.899
										212.	17.75	34.84	4.70		25.23	281.8	300.	11.77	34.16	26.00	208.4	1.014
										236.	15.77	34.53	4.41	0.52	25.46	260.3	400.	8.43	34.10	26.52	159.1	1.200
										262.	14.04	34.35	4.72	0.64	25.70	237.7	500.	6.48	34.09	26.79	133.2	1.347
										284.	12.57	34.21	4.59	0.82	25.89	219.6	600.	5.68	34.22	27.00	114.4	1.472
										378.	9.06	34.12	3.45	1.89	26.44	167.0	700.	5.17	34.34	27.15	100.3	1.581
										475.	6.80	34.07	2.29	2.44	26.74	138.8	800.	4.83	34.42	27.26	90.8	1.677
										570.	5.87	24.18	1.16	2.87	26.94	119.4	1000.	4.19	34.49	27.39	79.6	1.850
										759.	4.98	34.40	0.67	3.31	27.22	94.0	1200.	3.61	34.54	27.48	70.6	2.002
										952.	4.35	34.48	0.94	2.87	27.36	82.2						
										1144.	3.74	34.53	1.16	3.17	27.46	72.7						
										1435.	3.04	34.57	1.44	2.87	27.56	63.0						
CROMWELL	12, STATION	35, 23-28N LAT, 148-1W LONG, JAN. 21, 1965, 0300 G.C.T.	DRY BULB 22.6	WET BULB 19.9	WIND SPEED 16, DIR. 10	BAR. 17	WEATHER 03	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.	22.83	35.19	5.07	24.15	378.0	0.	22.83	35.19	24.15	378.0	0.000	
										10.	22.80	35.19	5.10	0.24	24.16	377.5	10.	22.80	35.19	24.16	377.5	0.038
										46.	22.32	35.29	5.09	0.22	24.37	358.7	20.	22.68	35.22	24.21	372.8	0.076
										69.	22.15	35.29	5.12	0.26	24.42	355.0	30.	22.55	35.24	24.27	367.7	0.113
										91.	21.86	35.36	5.11	0.19	24.55	343.0	50.	22.29	35.29	24.37	358.1	0.186
										114.	20.89	35.23	5.12	0.22	24.72	327.7	75.	22.11	35.32	24.45	352.2	0.276
										137.	19.91	35.13	4.90	0.27	24.93	308.2	100.	21.53	35.32	24.61	337.4	0.363
										158.	19.28	35.04	4.88	0.47	25.03	299.4	150.	19.48	35.10	24.99	302.5	0.524
										171.	18.79	35.02	4.88	0.31	25.11	292.2	200.	17.48	34.81	25.27	277.4	0.670
										202.	17.37	34.79	4.80	0.48	25.28	276.3	250.	14.67	34.44	25.63	243.8	0.801
										227.	15.63	34.54	4.73	0.57	25.50	256.2	300.	11.88	34.15	25.98	211.1	0.916
										250.	14.67	34.44	4.83	0.69	25.63	243.8	400.	8.76	34.04	26.43	168.6	1.108
										271.	13.25	34.27	4.65	0.83	25.80	228.0	500.	6.56	34.04	26.74	138.0	1.262
										362.	9.87	34.08	4.72	1.33	26.28	182.8	600.	5.36	34.15	26.98	115.3	1.390
										452.	7.49	34.02	3.34	2.16	26.60	151.9	700.	4.80	34.29	27.15	99.6	1.499
										543.	5.91	34.08	1.47	2.81	26.86	127.0	800.	4.54	34.39	27.26	89.8	1.595
										725.	4.74	34.32	1.20	3.28	27.19	96.6	1000.	4.10	34.50	27.40	78.4	1.765
										909.	4.35	34.46	0.87	3.04	27.34	83.3	1200.	3.60	34.55	27.49	69.7	1.915

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA																			
CROMWELL 12, STATION 36, 25-40' LAT, 147-59W LONG, JAN. 21, 1965, 1300 G.C.T.				WEATHER 03				VIS. 6 CLOUD TYPE 8, COVER 6																			
DRY BULB 21.5		WET BULB 19.8		WIND SPEED 10, DIR. 14		BAR. 16		TEMP.		SAL.		SIGMA-T		DETA		DEPTH		TEMP.		SAL.		SIGMA-T		DETA		DYN.DPTH.	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.															
0.	22.54	35.15	5.07	24.20	373.0	0.	22.54	35.15	24.20	373.0	0.000																
10.	22.54	35.14	5.21	0.22	24.19	374.1	10.	22.54	35.14	24.19	374.1	0.038															
48.	22.26	35.11	5.19	24.40	355.7	20.	22.49	35.18	24.23	370.5	0.075																
72.	22.10	35.15	5.18	0.21	24.48	349.4	30.	22.42	35.22	24.28	366.0	0.112															
95.	21.95	35.30	5.15	24.48	349.8	50.	22.25	35.32	24.41	354.9	0.185																
118.	20.94	35.34	5.12	24.79	321.2	75.	22.10	35.34	24.47	350.1	0.274																
141.	19.66	35.13	4.84	0.29	24.97	304.6	100.	21.78	35.32	24.54	344.3	0.361															
165.	19.01	35.04	4.82	0.35	25.07	295.9	150.	19.35	35.08	25.01	300.9	0.524															
179.	18.82	35.06	5.07	25.13	290.3	200.	18.12	34.94	25.22	282.9	0.671																
211.	17.52	34.83	5.06	25.28	277.1	250.	14.30	34.37	25.65	241.5	0.803																
236.	15.41	34.52	4.84	0.59	25.53	253.2	300.	12.04	34.17	25.95	213.3	0.918															
260.	13.62	34.28	4.82	0.75	25.73	234.3	400.	9.07	34.07	26.40	171.5	1.112															
283.	12.67	34.20	4.76	0.76	25.86	222.2	500.	6.97	34.02	26.67	145.1	1.272															
377.	9.66	34.79	4.76	1.40	26.32	178.9	600.	5.56	34.08	26.90	123.2	1.407															
472.	7.49	34.02	3.68	26.60	152.2	700.	4.75	34.19	27.08	106.1	1.523																
567.	5.93	34.05	1.84	26.83	129.8	800.	4.36	34.31	27.22	93.7	1.624																
755.	4.50	34.26	0.56	27.17	98.4	1000.	3.94	34.46	27.38	79.1	1.799																
944.	4.08	34.43	0.86	27.35	82.5	1200.	3.48	34.54	27.50	69.2	1.949																
1133.	3.62	34.51	1.20	27.46	72.7																						
1420.	2.97	34.56	1.52	27.56	63.3																						
CROMWELL 12, STATION 37, 26-27N LAT, 147-59W LONG, JAN. 21, 1965, 2000 G.C.T.				WEATHER 15				VIS. 7 CLOUD TYPE 8, COVER 7																			
DRY BULB 21.8		WET BULB 20.0		WIND SPEED 14, DIR. 17		BAR. 15		TEMP.		SAL.		SIGMA-T		DETA		DEPTH		TEMP.		SAL.		SIGMA-T		DETA		DYN.DPTH.	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.															
C.	22.34	35.24	5.14	24.32	361.1	0.	22.34	35.24	24.32	361.1	0.000																
10.	22.35	35.24	5.30	24.32	361.7	10.	22.35	35.24	24.32	361.7	0.036																
52.	22.16	35.34	5.08	24.45	351.0	20.	22.32	35.26	24.35	359.8	0.073																
77.	22.05	35.35	5.09	24.49	348.2	30.	22.28	35.28	24.37	357.5	0.109																
101.	21.93	35.36	5.06	24.53	345.2	50.	22.17	35.33	24.44	351.6	0.180																
127.	20.44	35.23	4.91	24.84	316.6	75.	22.06	35.35	24.49	348.4	0.268																
153.	19.58	35.14	4.84	25.00	302.3	100.	21.95	35.36	24.53	345.6	0.356																
177.	18.66	34.99	4.87	25.12	291.4	150.	19.67	35.15	24.98	303.6	0.519																
192.	17.90	34.87	4.89	25.22	282.5	200.	17.47	34.81	25.27	277.3	0.666																
226.	15.97	34.61	4.91	25.47	258.5	250.	14.43	34.44	25.68	239.2	0.796																
253.	14.21	34.41	4.83	25.71	236.6	300.	11.39	34.12	26.04	204.4	0.908																
274.	12.30	34.17	4.65	25.91	217.2	400.	9.27	34.06	26.36	175.0	1.099																
304.	11.32	34.13	4.73	26.66	202.9	500.	7.11	34.02	26.65	147.1	1.262																
405.	9.1h	34.06	4.50	26.37	173.9	600.	5.59	34.06	26.89	124.8	1.399																
507.	6.97	34.02	3.69	26.67	145.3	700.	4.79	34.16	27.06	108.7	1.517																
608.	5.50	34.07	1.55	26.90	123.3	800.	4.36	34.27	27.19	96.5	1.621																
810.	4.34	34.28	0.48	27.20	95.5	1000.	3.80	34.42	27.37	80.2	1.800																
1012.	3.78	34.43	0.79	27.38	79.5	1200.	3.36	34.52	27.49	69.7	1.952																
1214.	3.33	34.52	1.10	27.49	69.1	1500.	2.77	34.57	27.59	60.6	2.150																
1516.	2.74	34.57	1.60	27.59	60.4																						
CROMWELL 12, STATION 38, 25-4N LAT, 150-55W LONG, JAN. 22, 1965, 1500 G.C.T.				WEATHER 01				VIS. 6 CLOUD TYPE 8, COVER 4																			
DRY BULB 20.3		WET BULB 16.8		WIND SPEED 20, DIR. 30		BAR. 15		TEMP.		SAL.		SIGMA-T		DETA		DEPTH		TEMP.		SAL.		SIGMA-T		DETA		DYN.DPTH.	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.															
0.	22.51	35.23	5.23	24.27	366.4	0.	22.51	35.23	24.27	366.4	0.000																
9.	22.61	35.23	5.23	24.24	369.4	10.	22.61	35.23	24.24	369.6	0.037																
20.	22.60	35.23	5.23	24.24	369.6	20.	22.60	35.23	24.24	369.6	0.074																
30.	22.50	35.24	5.23	24.29	365.8	30.	22.50	35.25	24.29	365.8	0.111																
50.	22.27	35.23	5.23	24.37	358.2	50.	22.27	35.28	24.37	358.2	0.184																
74.	22.20	35.29	5.23	24.40	356.5	75.	22.18	35.29	24.41	355.8	0.274																
99.	21.43	35.31	5.23	24.63	335.5	100.	21.39	35.31	24.64	334.5	0.361																
124.	20.46	35.26	5.23	24.86	314.8	150.	20.06	35.24	24.95	306.8	0.523																
151.	20.04	35.24	5.23	24.95	306.6	200.	17.35	34.79	25.29	276.0	0.670																
174.	18.89	35.04	5.23	25.10	293.3	250.	14.87	34.47	25.61	245.5	0.801																
188.	17.90	34.39	5.23	25.21	283.0	300.	12.26	34.22	25.95	213.4	0.917																
223.	16.25	34.63	5.23	25.42	263.2	400.	9.09	34.07	26.40	171.6	1.111																
249.	14.93	34.48	5.23	25.61	246.3	500.	6.88	34.02	26.69	143.9	1.270																
275.	13.50	34.33	5.23	25.81	227.2	600.	5.50	34.11	26.93	120.4	1.404																
300.	12.26	34.22	5.23	25.95	213.4	700.	4.76	34.22	27.11	104.0	1.517																
401.	9.07	34.07	5.23	26.40	171.3	800.	4.39	34.33	27.23	92.4	1.617																
501.	6.86	34.02	5.23	26.69	143.7	1000.	4.03	34.48	27.39	78.8	1.790																
602.	5.48	34.11	5.23	26.94	120.0	1200.	3.48	34.51	27.47	71.5	1.942																
801.	4.39	34.33	5.23	27.23	92.3	1500.	2.78	34.57	27.58	60.8	2.143																
1001.	4.03	34.48	5.23	27.39	78.7	2000.	2.14	34.62	27.68	52.0	2.430																
1200.	3.49	34.51	5.23	27.47	71.5	2500.	1.78	34.65	27.73	47.2	2.682																
1500.	2.79	34.57	5.23	27.58	60.8	3000.	1.58	34.67	27.76	44.7	2.917																
2020.	2.12	34.62	5.23	27.68	51.8	4000.	1.47	34.69	27.78	44.5	3.374																
2504.	1.73	34.65	5.23	27.73	47.2																						
3010.	1.59	34.67	5.23	27.76	44.7																						
4041.	1.49	34.69	5.23	27.78	44.7																						

AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA									
CROMWELL DRY BULB 21.0	12, STATION WET BULB 16.2	39, 25° ON LAT, 154° OW LONG, JAN. 23, 1965, 0900 G.C.T.		DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
		WIND SPEED 18, DIR. 03										BAR. 23	WEATHER 02	VIS.	CLOUD TYPE	COVER	
0.	23.30	35.01	5.12		23.87	403.9	0.		23.30	35.01	23.87	403.9	35.02	23.87	404.4	0.041	
10.	23.33	35.02	5.15		23.87	404.4	10.		23.33	35.02	23.87	404.7	35.02	23.88	404.9	0.122	
30. <sup>A</sup>	23.32	35.02			23.88	404.9	20.		23.33	35.02	23.88	405.1	35.03	23.88	406.6	0.306	
51.	23.30	35.02	5.11		23.88	405.1	30.		23.32	35.02	23.88	405.1	35.03	23.88	406.6	0.405	
77.	23.35	35.04	5.02		24.24	373.3	75.		23.36	35.03	23.88	406.6	35.03	23.88	406.6	0.204	
102.	22.62	35.23	5.06		24.51	348.3	100.		22.70	35.22	24.20	376.3	35.22	24.20	376.3	0.405	
128.	21.63	35.22	5.03		24.80	321.6	150.		20.55	35.16	24.76	325.3	35.16	24.76	325.3	0.581	
154.	20.37	35.15	5.06		24.80	321.6	150.		20.55	35.16	24.76	325.3	35.16	24.76	325.3	0.581	
178.	19.73	35.14	4.92		24.96	306.9	200.		18.52	34.97	25.14	290.6	34.97	25.14	290.6	0.737	
192.	18.94	35.03	4.78		25.08	295.8	250.		15.62	34.56	25.51	255.4	34.56	25.51	255.4	0.874	
227.	17.07	34.73	4.75		25.32	273.1	300.		12.63	34.23	25.89	219.6	34.23	25.89	219.6	0.34	
255.	15.30	34.52	4.73		25.55	251.4	400.		9.15	34.07	26.39	172.3	34.07	26.39	172.3	1.192	
280.	13.76	34.36	4.74		25.76	231.8	500.		6.78	34.02	26.70	142.5	34.02	26.70	142.5	1.351	
305.	12.36	34.20	4.77		25.92	216.9	600.		5.44	34.09	26.92	121.0	34.09	26.92	121.0	1.484	
406.	9.02	34.09	4.11		26.42	169.9	700.		4.74	34.21	27.10	104.7	34.21	27.10	104.7	1.598	
508.	6.63	34.02	3.06		26.72	140.6	800.		4.35	34.33	27.23	92.2	34.33	27.23	92.2	1.697	
610.	5.35	34.10	1.33		26.94	119.2	1000.		3.90	34.48	27.41	77.0	34.48	27.41	77.0	1.869	
812.	4.33	34.34	0.68		27.25	91.0	1200.		3.43	34.53	27.49	69.5	34.53	27.49	69.5	2.017	
1014.	3.38	34.49	1.44		27.41	76.3	1500.		2.85	34.58	27.59	60.9	34.58	27.59	60.9	2.215	
1215.	3.39	34.51	1.33		27.50	69.1											
1517.	2.82	34.54	1.64		27.59	60.6											

CROMWELL DRY BULB 22.9	12, STATION WET BULB 17.2	40, 24-56° LAT, 156-58° LONG, JAN. 24, 1965, 0000 G.C.T.		DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
		WIND SPEED 25, DIR. 09										BAR. 22	WEATHER 02	VIS.	CLOUD TYPE 7	COVER 5
0.	23.16	35.15	5.12		24.02	389.9	0.		23.16	35.15	24.02	389.9	35.15	23.99	393.3	0.039
10. <sup>A</sup>	23.19	35.12			23.99	393.3	10.		23.19	35.12	23.99	394.0	35.11	23.99	394.0	0.079
30. <sup>A</sup>	23.17	35.12			24.00	393.5	20.		23.19	35.11	24.00	393.5	35.12	24.00	393.5	0.119
51.	23.16	35.13			24.01	393.3	30.		23.17	35.12	24.02	393.4	35.13	24.01	393.4	0.198
76.	23.12	35.14			24.03	392.5	50.		23.16	35.13	24.02	392.7	35.14	24.02	392.7	0.297
101.	22.71	35.24			24.22	375.0	75.		23.13	35.14	24.21	375.9	35.15	24.21	375.9	0.394
125.	21.65	35.16			24.46	353.1	100.		22.74	35.24	24.21	375.9	35.16	24.65	335.0	0.573
150.	20.76	35.10			24.65	335.0	150.		20.76	35.10	24.65	335.0	35.11	25.31	273.4	0.726
175.	18.73	34.91			25.04	298.9	200.		17.17	34.76	25.80	227.2	34.76	25.80	227.2	0.852
190.	17.94	34.85			25.19	284.8	250.		13.73	34.40	26.43	210.1	34.40	26.43	210.1	0.963
223.	15.31	34.55			25.58	248.5	300.		12.33	34.28	25.99	168.3	34.28	25.99	168.3	1.154
251.	13.68	34.40			25.81	226.5	400.		8.88	34.07	26.43	140.6	34.07	26.43	140.6	1.310
276.	12.82	34.32			25.92	216.2	500.		6.64	34.02	26.72	123.4	34.02	26.72	123.4	1.443
311.	12.12	34.27			26.02	207.4	600.		5.57	34.08	26.90	107.4	34.08	26.90	107.4	1.559
400.	9.43	34.07			26.43	168.3	700.		4.89	34.19	27.07	93.8	34.19	27.07	93.8	1.661
501.	6.62	34.02			26.72	140.4	800.		4.44	34.32	27.22	77.4	34.32	27.22	77.4	1.834
601.	5.56	34.08			26.90	123.2	1000.		3.85	34.47	27.40	67.9	34.47	27.40	67.9	1.982
801.	4.44	34.32			27.22	93.7	1200.		3.30	34.53	27.50	50.7	34.53	27.50	50.7	2.176
1002.	3.85	34.47			27.40	77.3	1500.		2.73	34.57	27.59	40.6	34.57	27.59	40.6	
1202.	3.29	34.53			27.50	67.8										
1503.	2.73	34.57			27.59	60.4										

CROMWELL DRY BULB 23.9	12, STATION WET BULB 19.9	41, 23-30° LAT, 156-59° LONG, JAN. 24, 1965, 1000 G.C.T.		DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
		WIND SPEED 25, CIR. 07										BAR. 21	WEATHER 02	VIS.	CLOUD TYPE	COVER
0.	23.29	35.12			23.96	395.7	0.		23.29	35.12	23.96	396.6	35.12	23.96	396.6	0.040
11. <sup>A</sup>	23.31	35.12			23.96	396.7	10.		23.31	35.12	23.96	397.0	35.12	23.96	397.0	0.080
30. <sup>A</sup>	23.30	35.12			23.97	397.1	20.		23.31	35.12	23.96	397.1	35.12	23.96	397.1	0.120
52.	23.29	35.13			23.97	397.0	30.		23.30	35.12	23.96	397.1	35.13	23.97	397.1	0.200
77.	23.34	35.13			23.95	399.3	50.		23.29	35.13	23.95	399.4	35.13	23.95	399.4	0.300
102.	23.03	35.20			24.10	386.7	75.		23.34	35.13	24.08	388.2	35.14	24.08	388.2	0.399
127.	21.93	35.19			24.40	358.5	100.		23.08	35.19	24.73	328.2	35.17	24.73	328.2	0.580
153.	20.52	35.16			24.76	324.6	150.		20.68	35.17	24.73	328.2	35.18	24.73	328.2	0.580
176.	19.65	35.07			24.93	309.9	200.		18.34	34.90	25.13	290.8	34.90	25.13	290.8	0.736
191.	18.84	34.97			25.06	297.7	250.		15.23	34.53	25.58	249.0	34.53	25.58	249.0	0.872
227.	16.75	34.70			25.36	269.4	300.		12.67	34.27	25.92	217.3	34.27	25.92	217.3	0.990
254.	14.45	34.50			25.62	245.4	400.		9.38	34.13	26.39	172.1	34.13	26.39	172.1	1.186
279.	13.22	34.32			25.84	224.0	500.		6.97	34.08	26.72	140.8	34.08	26.72	140.8	1.344
306.	12.58	34.27			25.93	216.0	600.		5.49	34.14	26.96	117.7	34.14	26.96	117.7	1.474
405.	9.20	34.12			26.42	169.8	700.		4.84	34.25	27.12	102.8	34.25	27.12	102.8	1.586
507.	6.64	34.08			26.74	139.1	800.		4.59	34.36	27.24	92.5	34.36	27.24	92.5	1.685
608.	5.40	34.15														

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
								VIS.	7	CLOUD	TYPE	6,	COVER	5	
CROMWELL	17, STATION	42, 22- ON LAT,	157- 1W LONG,	JAN. 24, 1965,	1900 G.C.T.										
DRY BULB	23.8	WET BULB	21.5	WIND SPEED	26, CIR.	07	BAR. 18	WEATHER	02	VIS.	7	CLOUD	TYPE	6, COVER	5
DEPTH	TEMP.	SAL.	RAY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.68	34.97			23.73	417.4	0.	23.68	34.97	23.73	417.4	0.000			
10.	23.74	34.96			23.71	420.1	10.	23.74	34.96	23.71	420.1	0.042			
52.	23.70	34.99			23.74	418.5	20.	23.75	34.96	23.71	420.8	0.085			
77.	23.69	35.02			23.77	417.0	30.	23.75	34.97	23.71	420.8	0.127			
102.	23.65	35.02			23.78	416.9	50.	23.71	34.99	23.74	418.8	0.212			
129.	22.75	35.24			24.21	377.1	75.	23.69	35.02	23.77	417.1	0.317			
154.	20.09	35.08			24.82	319.5	100.	23.67	35.02	23.77	417.5	0.422			
179.	19.45	35.04			24.95	307.2	150.	20.51	35.11	24.73	327.6	0.610			
194.	18.03	34.86			25.18	286.4	200.	17.65	34.81	25.23	281.2	0.763			
228.	16.23	34.63			25.43	262.9	250.	14.92	34.48	25.61	245.8	0.896			
255.	14.61	34.45			25.65	242.0	300.	12.17	34.21	25.96	212.6	1.012			
281.	13.05	34.29			25.95	222.9	400.	9.19	34.10	26.40	171.1	1.205			
305.	11.96	34.19			26.99	210.2	500.	6.94	34.09	26.73	139.7	1.362			
406.	9.06	34.10			26.42	169.0	600.	5.70	34.17	26.95	118.5	1.492			
508.	6.79	34.09			26.75	137.6	700.	5.11	34.30	27.13	102.2	1.604			
610.	5.62	34.18			26.97	116.7	800.	4.78	34.43	27.27	90.0	1.701			
812.	4.76	34.44			27.28	88.8	1000.	4.07	34.50	27.40	77.8	1.871			
1016.	4.02	34.50			27.41	77.3	1200.	3.49	34.53	27.48	70.4	2.021			
1217.	3.45	34.53			27.49	69.8	1500.	2.86	34.58	27.58	61.2	2.221			
1519.	2.83	34.58			27.59	60.8									

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 13

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA					
CROMWELL		13, STATION	1, 20-35N LAT, 157-16W LONG, FEB. 9, 1965, 0500 G.C.T.												
DRY BULB	23.8	WET BULB	19.7	WIND SPEED	08, DIR.	17	BAR.	15	WEATHER	03	VIS.	7	CLOUD	TYPE	8, COVER
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.82	34.87			23.62	428.5	0.	23.82	34.87	23.62	428.5	0.000			
11.	23.84	34.87			23.61	429.5	10.	23.84	34.87	23.61	429.5	0.043			
30. <sup>A</sup>	23.76	34.88			23.64	427.3	20.	23.82	34.87	23.62	429.3	0.086			
50.	23.52	34.96			23.77	415.5	30.	23.76	34.88	23.64	427.3	0.130			
74.	23.39	35.01			23.85	409.2	50.	23.52	34.96	23.77	415.5	0.215			
98.	22.61	35.09			24.13	382.9	75.	23.36	35.01	23.86	408.3	0.318			
123.	21.69	35.06			24.37	361.3	100.	22.54	35.09	24.15	381.0	0.418			
147.	20.96	35.05			24.56	343.7	150.	20.95	35.06	24.57	343.1	0.600			
169.	20.52	35.06			24.69	332.4	200.	16.88	34.72	25.34	270.2	0.755			
194.	17.56	34.79			25.24	280.4	250.	13.27	34.34	25.85	222.8	0.879			
217.	15.21	34.53			25.58	247.7	300.	10.91	34.18	26.17	191.9	0.984			
241.	13.96	34.40			25.75	231.9	400.	8.24	34.18	26.61	150.4	1.156			
265.	12.18	34.25			25.99	208.9	500.	6.64	34.21	26.86	126.9	1.296			
289.	11.28	34.19			26.11	197.4	600.	5.73	34.31	27.06	108.7	1.415			
384.	8.58	34.18			26.56	155.2	700.	5.13	34.39	27.20	95.8	1.519			
480.	6.89	34.19			26.82	131.2	800.	4.72	34.46	27.30	86.9	1.611			
574.	5.92	34.28			27.02	112.7	1000.	4.07	34.52	27.42	76.1	1.776			
765.	4.86	34.44			27.27	89.6	1200.	3.52	34.56	27.50	68.5	1.922			
956.	4.20	34.51			27.40	78.2									
1146.	3.67	34.55			27.48	70.4									
1431.	3.01	34.56			27.56	63.8									
CROMWELL															
CROMWELL		13, STATION	2, 18-59N LAT, 156-57W LONG, FEB. 9, 1965, 1500 G.C.T.												
DRY BULB		23.2	WET BULB		19.4	WIND SPEED		08, DIR.	18	BAR.	18	WEATHER	02	VIS.	7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.36	34.46			23.15	473.3	0.	24.36	34.46	23.15	473.3	0.000			
10.	24.39	34.48			23.15	473.1	10.	24.39	34.48	23.15	473.1	0.048			
49.	24.47	34.51			23.15	474.0	20.	24.41	34.49	23.16	473.3	0.095			
74.	24.52	34.52			23.14	476.4	30.	24.43	34.50	23.16	473.7	0.143			
98.	23.71	34.88			23.66	428.5	50.	24.48	34.51	23.15	475.3	0.239			
124.	22.22	35.00			24.18	379.8	75.	24.50	34.53	23.16	474.9	0.358			
149.	21.37	35.10			24.49	350.9	100.	23.60	34.89	23.70	424.3	0.472			
173.	19.53	34.99			24.90	312.6	150.	21.30	35.10	24.51	349.3	0.666			
198.	17.92	34.84			25.19	285.3	200.	17.77	34.83	25.21	289.0	0.826			
222.	16.08	34.65			25.48	257.9	250.	13.89	34.39	25.75	231.8	0.956			
247.	14.15	34.41			25.72	235.2	300.	11.42	34.23	26.12	197.5	1.064			
271.	12.34	34.26			25.97	211.3	400.	7.97	34.16	26.64	147.7	1.238			
297.	11.53	34.23			26.10	199.2	500.	6.13	34.23	26.95	118.6	1.372			
394.	8.13	34.16			26.62	150.0	600.	5.50	34.35	27.12	102.7	1.484			
495.	6.18	34.22			26.94	119.6	700.	5.07	34.44	27.24	91.8	1.582			
594.	5.53	34.34			27.11	103.5	800.	4.75	34.49	27.32	84.6	1.672			
790.	4.78	34.49			27.32	85.2	1000.	4.11	34.51	27.41	77.3	1.836			
989.	4.14	34.51			27.40	77.7	1200.	3.55	34.54	27.49	70.2	1.985			
1185.	3.58	34.54			27.48	70.4									
1481.	2.93	34.58			27.56	61.7									
CROMWELL															
CROMWELL		13, STATION	3, 17-27N LAT, 157- DW LONG, FEB. 9, 1965, 2300 G.C.T.												
DRY BULB		24.5	WET BULB		20.2	WIND SPEED		10, DIR.	03	BAR.	18	WEATHER	01	VIS.	8
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.19	34.22			22.72	514.5	0.	25.19	34.22	22.72	514.5	0.000			
10.	24.86	34.21			22.81	506.1	10.	24.86	34.21	22.81	506.1	0.051			
20. <sup>A</sup>	24.80	34.21			22.83	504.7	20.	24.80	34.21	22.83	504.7	0.102			
30. <sup>A</sup>	24.80	34.21			22.83	505.1	30.	24.80	34.21	22.83	505.1	0.153			
51.	24.80	34.21			22.83	505.9	50.	24.80	34.21	22.83	505.9	0.255			
76.	24.79	34.21			22.83	506.6	75.	24.81	34.20	22.82	507.4	0.383			
100.	23.28	34.78			23.71	423.8	100.	23.28	34.78	23.71	423.8	0.500			
125.	21.85	35.04			24.31	367.1	150.	18.92	34.76	24.87	313.8	0.686			
151.	18.79	34.74			24.89	311.8	200.	13.54	34.32	25.78	227.9	0.822			
175.	15.73	34.49			25.44	260.5	250.	10.98	34.29	26.25	183.9	0.926			
201.	13.47	34.32			25.79	226.9	300.	9.57	34.29	26.49	161.2	1.013			
225.	12.10	34.28			26.03	204.2	400.	7.96	34.39	26.82	130.6	1.160			
251.	10.94	34.29			26.25	183.2	500.	7.36	34.46	26.96	118.4	1.286			
276.	10.22	34.26			26.36	173.6	600.	6.26	34.46	27.11	104.3	1.399			
301.	9.54	34.29			26.49	160.7	700.	5.59	34.48	27.21	95.4	1.499			
600.	7.96	34.39			26.82	130.6	800.	5.14	34.50	27.28	89.1	1.593			
501.	7.36	34.46			26.96	118.3	1000.	4.38	34.53	27.39	79.4	1.763			
602.	6.24	34.46			27.12	104.1	1200.	3.68	34.56	27.49	70.3	1.915			
801.	5.14	34.50			27.28	89.1	1500.	2.91	34.59	27.59	60.9	2.115			
1001.	4.38	34.53			27.39	79.4									
1201.	3.68	34.56			27.49	70.3									
1502.	2.91	34.59			27.59	60.9									

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB	13. STATION WET BULB	4, 16- IN LAT, 156-59W LONG, FEB.	10, 1965, 1200 G.C.T.	10. 1965, 1200 G.C.T.	VIS. 7	CLOUD TYPE	4.	COVER 3					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DEPTH	DYN.DPTH.		
0.	24.74	34.23			22.86	500.8	0.	24.74	34.23	22.86	500.8	0.000	
10. <sup>A</sup>	24.76	34.23			22.85	501.8	10.	24.76	34.23	22.85	501.8	0.050	
30. <sup>A</sup>	24.76	34.24			22.86	501.8	20.	24.76	34.23	22.86	501.9	0.101	
51.	24.77	34.25			22.87	502.2	30.	24.76	34.24	22.86	501.8	0.152	
76.	24.86	34.29			22.87	502.9	50.	24.77	34.25	22.87	502.2	0.253	
100.	19.12	34.72			24.80	219.5	75.	24.92	34.28	22.85	504.8	0.380	
125.	17.66	34.75			25.18	283.4	100.	19.12	34.72	24.80	319.5	0.483	
151.	14.40	34.30			25.58	245.6	150.	14.53	34.32	25.57	246.9	0.626	
177.	12.51	34.23			25.91	214.3	200.	11.41	34.23	26.12	194.9	0.737	
202.	11.33	34.23			26.14	193.4	250.	10.12	34.35	26.44	165.0	0.828	
226.	10.52	34.27			26.31	176.9	300.	9.72	34.49	26.62	149.0	0.907	
251.	10.11	34.35			26.45	164.6	400.	8.28	34.48	26.84	128.7	1.048	
277.	10.10	34.45			26.53	157.7	500.	7.14	34.47	27.00	114.4	1.170	
302.	9.68	34.49			26.63	148.3	600.	6.17	34.46	27.13	103.0	1.280	
402.	8.26	34.48			26.85	128.5	700.	5.40	34.46	27.22	94.0	1.380	
502.	7.12	34.47			27.01	114.1	800.	4.82	34.48	27.30	86.6	1.471	
603.	6.14	34.46			27.13	102.7	1000.	4.16	34.55	27.43	75.2	1.635	
803.	4.81	34.48			27.31	86.4	1200.	3.54	34.56	27.51	68.5	1.780	
1003.	4.15	34.55			27.43	75.0	1500.	2.78	34.61	27.62	57.8	1.972	
1202.	3.53	34.56			27.51	68.5							
1503.	2.77	34.61			27.62	57.7							

CROMWELL STATION 5, 14-27N LAT, 156-56W LONG, FEB. 10, 1965, 2100 G.C.T.												
DRY BULB	25.3	WET BULB	22.0	WIND SPEED	20	DIR.	05	BAR.	15	WEATHER	03	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.72	34.26			22.89	498.1	0.	24.72	34.26	22.89	498.1	0.000
11.	24.72	34.24			22.87	499.9	10.	24.72	34.24	22.87	499.8	0.050
30. <sup>A</sup>	24.72	34.25			22.88	499.9	20.	24.72	34.24	22.87	500.2	0.101
51.	24.69	34.26			22.90	499.2	30.	24.72	34.25	22.88	499.9	0.151
76.	22.81	34.91			23.94	400.5	50.	24.71	34.25	22.89	500.1	0.252
101.	20.48	35.01			24.66	332.6	75.	22.91	34.88	23.89	405.2	0.366
125.	18.86	34.96			25.05	296.7	100.	20.57	35.01	24.64	334.7	0.459
151.	16.31	34.62			25.40	263.0	150.	16.41	34.64	25.39	264.2	0.610
174.	14.22	34.37			25.67	237.5	200.	12.16	34.29	26.03	204.0	0.728
201.	12.09	34.29			26.04	202.7	250.	9.64	34.32	26.50	159.1	0.819
225.	10.88	34.35			26.31	177.2	300.	9.45	34.52	26.69	142.0	0.895
250.	9.64	34.32			26.50	159.1	400.	8.08	34.54	26.92	121.3	1.028
275.	9.18	34.39			26.63	147.0	500.	7.12	34.52	27.04	110.4	1.145
299.	9.45	34.52			26.69	142.3	600.	6.41	34.53	27.15	101.1	1.252
399.	8.09	34.54			26.92	121.4	700.	5.74	34.53	27.24	93.4	1.350
498.	7.14	34.52			27.04	110.6	800.	5.17	34.53	27.30	87.3	1.442
598.	6.42	34.53			27.15	101.3	1000.	4.49	34.55	27.40	79.2	1.610
796.	5.19	34.53			27.30	87.5	1200.	3.85	34.57	27.48	71.5	1.763
996.	4.50	34.55			27.40	79.3						
1195.	3.86	34.57			27.48	71.7						
1493.	3.02	34.61			27.59	60.7						

CROMWELL 13. STATION 6, 13° IN LAT, 157° OW LONG, FEB. 11, 1965, 0600 G.C.T.												
DRY BULB	25.2	WET BULB	22.3	WIND SPEED	22	DIR.	05	BAR. 13	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.93	34.29			22.85	501.9	0.	24.93	34.29	22.85	501.9	0.000
10.	24.93	34.29			22.85	502.3	10.	24.93	34.29	22.85	502.3	0.051
30. <sup>a</sup>	24.93	34.29			22.85	503.1	20.	24.94	34.29	22.85	502.9	0.101
51.	24.83	34.29			22.88	501.0	30.	24.93	34.29	22.85	503.1	0.152
76.	24.16	34.99			23.61	432.4	50.	24.84	34.28	22.87	501.7	0.253
101.	21.44	35.14			24.50	348.1	75.	24.21	34.96	23.57	436.0	0.371
126.	18.61	34.89			25.05	295.7	100.	21.57	35.14	24.47	351.2	0.470
152.	15.16	34.48			25.55	248.3	150.	15.43	34.51	25.52	251.7	0.622
176.	12.35	34.29			25.99	206.9	200.	11.32	34.47	26.32	175.5	0.730
201.	11.30	34.48			26.34	174.5	250.	10.88	34.65	26.54	155.9	0.814
227.	11.08	34.60			26.47	162.4	300.	9.99	34.68	26.72	139.4	0.888
252.	10.86	34.65			26.55	155.4	400.	8.71	34.59	26.87	127.1	1.022
278.	10.47	34.67			26.63	147.8	500.	7.75	34.57	26.99	115.8	1.145
302.	9.94	34.68			26.73	138.6	600.	6.86	34.54	27.10	106.6	1.257
403.	8.69	34.59			26.87	127.0	700.	6.12	34.53	27.19	98.3	1.361
504.	7.71	34.57			27.00	115.4	800.	5.51	34.54	27.27	90.9	1.456
603.	6.83	34.54			27.10	106.4	1000.	4.61	34.56	27.39	80.1	1.630
803.	5.49	34.54			27.27	90.7	1200.	3.93	34.58	27.48	71.9	1.784
1004.	4.60	34.56			27.39	79.9	1500.	3.14	34.61	27.58	62.2	1.988
1204.	3.92	34.58			27.48	71.8						
1504.	3.13	34.61			27.58	62.1						

## AFFIRM AT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		13, STATION 7, 11-30N LAT, 157- 0W LONG, FEB. 11, 1965, 1500 G.C.T.												
DRY BULB 24.4		WET BULB 22.1			WIND SPEED 26, DIR. 04		BAR. 11			WEATHER 01		VIS. 7		CLOUD TYPE , COVER 0
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.92	34.20			22.78	508.1	0.	24.92	34.20	22.78	508.1	0.000		
10.	24.96	34.20			22.77	509.7	10.	24.96	34.20	22.77	509.7	0.051		
30. <sup>A</sup>	24.96	34.20			22.77	510.5	20.	24.97	34.20	22.77	510.3	0.103		
50.	24.96	34.20			22.77	511.2	30.	24.96	34.20	22.77	510.5	0.154		
75.	22.33	34.71			23.93	401.9	50.	24.96	34.20	22.77	511.2	0.257		
100.	20.06	34.89			24.68	330.6	75.	22.33	34.71	23.93	401.9	0.372		
125.	16.26	34.58			25.38	264.0	100.	20.06	34.89	24.68	330.6	0.464		
151.	11.91	34.26			26.05	200.4	150.	12.05	34.27	26.03	202.3	0.598		
174.	10.83	34.34			26.31	175.9	200.	10.93	34.56	26.47	162.0	0.690		
201.	10.95	34.57			26.47	161.7	250.	10.65	34.70	26.62	148.0	0.768		
226.	10.98	34.70			26.56	153.2	300.	9.95	34.68	26.73	138.7	0.841		
250.	10.65	34.70			26.62	148.0	400.	8.98	34.63	26.85	128.6	0.976		
275.	10.29	34.70			26.69	142.4	500.	8.06	34.58	26.96	119.6	1.101		
300.	9.95	34.68			26.73	138.7	600.	7.17	34.56	27.07	109.7	1.217		
400.	8.98	34.63			26.85	128.6	700.	6.39	34.55	27.17	101.1	1.323		
501.	8.05	34.58			26.96	119.7	800.	5.70	34.54	27.25	93.5	1.422		
601.	7.16	34.56			27.07	109.6	1000.	4.56	34.55	27.39	80.0	1.597		
800.	5.70	34.54			27.25	93.5	1200.	3.78	34.57	27.49	70.8	1.750		
992.	4.59	34.55			27.39	80.4								
1187.	3.89	34.57			27.48	72.0								
1483.	3.07	34.60			27.58	62.0								
CROMWELL		13, STATION 7A, 10- TN LAT, 154- 4W LNG, FEB. 12, 1965, 1200 G.C.T.										VIS. 7		
DRY BULB 24.9		WET BULB 22.7			WIND SPEED 19, DIR. 04		BAR. 12			WEATHER 03		CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.08	34.24	5.13		22.76	509.9	0.	25.08	34.24	22.76	509.9	0.000		
10.	25.08	34.23	5.14		22.76	511.0	10.	25.08	34.23	22.76	511.0	0.051		
20. <sup>A</sup>	25.08	34.23			22.76	511.4	20.	25.08	34.23	22.76	511.4	0.103		
30. <sup>A</sup>	25.02	34.24			22.78	509.3	30.	25.02	34.24	22.78	509.3	0.154		
51.	21.57	34.80	5.51		24.21	374.2	50.	21.78	34.77	24.13	381.8	0.244		
77.	18.31	34.80	4.56		25.06	293.4	75.	18.56	34.82	25.01	297.9	0.330		
101.	14.12	34.41	3.47		25.73	230.5	100.	14.28	34.43	25.70	232.7	0.397		
126.	12.00	34.50	1.42		26.22	183.8	150.	11.45	34.70	26.48	159.4	0.498		
152.	11.44	34.72	0.23		26.50	158.2	200.	10.73	34.72	26.63	146.8	0.572		
177.	11.03	34.72	0.56		26.57	151.5	250.	10.07	34.71	26.73	137.3	0.644		
202.	10.70	34.72	0.47		26.63	146.3	300.	9.69	34.69	26.78	133.7	0.712		
227.	10.31	34.72	0.70		26.70	140.2	400.	8.88	34.65	26.88	125.5	0.843		
252.	10.05	34.71	0.56		26.74	137.2	500.	7.84	34.60	27.01	114.9	0.965		
278.	9.81	34.70	0.35		26.77	134.5	600.	7.03	34.57	27.10	106.8	1.077		
303.	9.68	34.69	0.35		26.78	133.6	700.	6.27	34.56	27.19	98.9	1.180		
402.	8.86	34.65	0.47		26.89	125.3	800.	5.60	34.55	27.27	91.4	1.277		
504.	7.80	34.60	0.55		27.01	114.5	1000.	4.56	34.56	27.40	79.4	1.449		
605.	6.99	34.57	0.61		27.10	106.5	1200.	3.77	34.59	27.51	69.2	1.600		
806.	5.56	34.55	0.70		27.27	91.0	1500.	2.99	34.62	27.60	59.7	1.796		
1006.	4.53	34.56	1.21		27.40	79.1								
1205.	3.75	34.59			27.51	69.0								
1507.	2.98	34.62	1.89		27.61	59.6								
CROMWELL		13, STATION 8, 11-34N LAT, 154- 2W LONG, FEB. 12, 1965, 2200 G.C.T.										VIS. 7		
DRY BULB 25.2		WET BULB 22.5			WIND SPEED 12, DIR. 03		BAR. 11			WEATHER 02		CLOUD TYPE 8, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.28	34.36	5.25		22.79	507.1	0.	25.28	34.36	22.79	507.1	0.000		
9.	25.28	34.36	5.06		22.79	507.4	10.	25.28	34.36	22.79	507.9	0.051		
30. <sup>A</sup>	25.28	34.36			22.79	508.2	20.	25.28	34.36	22.79	508.2	0.153		
49.	25.27	34.36	4.91		22.80	508.7	30.	25.28	34.36	22.84	504.8	0.255		
74.	21.60	34.84	5.26		24.23	373.0	50.	25.19	34.38	22.84	366.7	0.365		
97.	15.81	34.53	5.31		25.45	257.0	75.	21.34	34.83	24.29	366.7	0.365		
121.	12.98	34.30	4.00		25.87	216.7	100.	15.32	34.49	25.53	249.5	0.443		
146.	11.76	34.39	1.93		26.18	188.0	150.	11.70	34.38	26.19	187.4	0.553		
169.	11.12	34.50	1.08		26.38	169.1	200.	10.23	34.73	26.72	137.7	0.635		
174.	10.74	34.61	0.53		26.54	154.5	250.	10.02	34.64	26.69	141.4	0.705		
217.	10.39	34.64	0.34		26.62	147.3	300.	9.44	34.63	26.77	134.3	0.775		
242.	10.07	34.64	0.26		26.68	142.4	400.	8.46	34.61	26.91	122.3	0.904		
267.	9.90	34.65	0.23		26.72	139.4	500.	7.56	34.57	27.02	113.4	1.023		
291.	9.55	34.63	0.27		26.76	135.6	600.	6.75	34.55	27.12	104.5	1.133		
389.	8.57	34.61	0.54		26.90	123.4	700.	5.97	34.54	27.21	95.0	1.234		
486.	7.68	34.57	0.73		27.00	114.6	800.	5.33	34.54	27.29	88.6	1.328		
584.	6.88	34.55	0.56		27.10	106.1	1000.	4.52	34.55	27.40	79.5	1.498		
778.	5.44	34.54	1.00		27.28	89.8	1200.	3.82	34.57	27.48	71.3	1.450		
975.	4.62	34.55	1.17		27.38	80.6								
1170.	3.91	34.57	1.34		27.48	72.1								
1466.	3.10	34.59	1.82		27.57	63.0								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.22  
SALINITY ERROR TERM AT 200. METERS IS 0.06

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	13, STATION	9, 12-59N LAT, 154- 0W LONG, FEB. 13, 1965, 0600 G.C.T.						VIS. 7	CLOUD TYPE 9, COVER 7			
DRY BULB 25.1	WET BULB 22.6	WIND SPEED 19, DIR. 05	BAR. 14	WEATHER 03								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.72	34.09	5.25		22.76	510.3	0.	24.72	34.09	22.76	510.3	0.000
10.	24.74	34.20	5.31		22.84	503.3	10.	24.74	34.20	22.84	503.3	0.051
49.	24.63	34.20	5.19		22.87	501.7	20.	24.72	34.23	22.86	501.3	0.102
76.	24.64	34.29	5.14		22.94	496.5	30.	24.69	34.23	22.88	500.4	0.152
100.	18.41	34.58	4.56		24.87	312.6	50.	24.70	34.20	22.85	503.6	0.253
124.	14.92	34.43	4.21		25.57	246.1	75.	24.71	34.28	22.91	498.8	0.379
150.	12.35	34.26	3.28		25.97	208.5	100.	18.41	34.58	24.87	312.6	0.482
173.	10.88	34.26	2.75		26.24	182.6	150.	12.35	34.26	25.97	208.5	0.613
198.	10.51	34.38	1.75		26.40	168.0	200.	10.48	34.39	26.41	166.9	0.708
222.	10.16	34.46	1.09		26.52	156.8	250.	9.80	34.49	26.61	148.9	0.787
248.	9.82	34.49	0.78		26.60	149.5	300.	9.06	34.48	26.72	139.1	0.860
273.	9.49	34.51	0.84		26.67	143.1	400.	8.10	34.52	26.90	123.1	0.992
297.	9.10	34.48	0.70		26.72	139.6	500.	7.28	34.51	27.01	113.5	1.112
396.	8.14	34.52	0.45		26.90	123.6	600.	6.53	34.49	27.10	105.7	1.222
496.	7.31	34.51	0.44		27.01	113.8	700.	5.84	34.51	27.20	96.7	1.324
594.	6.57	34.49	0.55		27.10	106.3	800.	5.28	34.53	27.29	88.5	1.410
792.	5.31	34.53	1.23		27.29	89.0	1000.	4.55	34.56	27.40	79.2	1.588
990.	4.59	34.56	1.15		27.39	79.7	1200.	3.85	34.58	27.49	71.2	1.740
1190.	3.84	34.57	1.31		27.48	71.4						
1491.	3.02	34.59	1.85		27.58	62.1						

CROMWELL	13, STATION	10, 14-31N LAT, 154- 0W LONG, FEB. 13, 1965, 1600 G.C.T.						VIS. 5	CLOUD TYPE , COVER 8			
DRY BULB 24.2	WET BULB 22.0	WIND SPEED 24, DIR. 08	BAR. 12	WEATHER 02								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.68	34.20	5.70		22.86	501.2	0.	24.68	34.20	22.86	501.2	0.000
10.	24.70	34.19	5.55		22.84	502.9	10.	24.70	34.19	22.84	502.9	0.051
50.	24.70	34.20	5.25		22.85	503.7	20.	24.71	34.19	22.84	503.5	0.101
74.	24.71	34.20	5.15		22.85	504.9	30.	24.71	34.19	22.84	503.8	0.152
100.	23.84	34.48	5.18		23.32	461.0	50.	24.70	34.20	22.85	503.7	0.253
124.	21.21	34.90	5.29		24.38	360.2	75.	24.70	34.21	22.85	504.4	0.380
149.	17.56	34.74	4.59		25.20	282.6	100.	23.84	34.48	23.32	461.0	0.502
173.	13.11	34.31	3.23		25.86	219.8	150.	17.35	34.72	25.23	279.2	0.689
199.	11.94	34.34	2.41		26.11	196.2	200.	11.91	34.34	26.12	195.5	0.808
224.	11.15	34.39	1.76		26.29	179.0	250.	10.34	34.42	26.46	163.7	0.899
248.	10.38	34.41	1.52		26.45	164.7	300.	9.12	34.41	26.66	145.2	0.977
274.	9.91	34.46	1.21		26.57	153.7	400.	8.04	34.48	26.88	125.2	1.113
298.	9.16	34.41	1.22		26.65	145.7	500.	6.98	34.49	27.04	110.5	1.232
397.	8.08	34.48	0.57		26.87	125.7	600.	6.26	34.51	27.15	100.6	1.339
497.	7.00	34.49	0.51		27.04	110.9	700.	5.54	34.51	27.25	92.3	1.436
595.	6.30	34.51	0.54		27.15	101.1	800.	4.94	34.51	27.32	85.7	1.526
794.	4.96	34.51	0.90		27.31	86.0	1000.	4.34	34.55	27.42	77.2	1.691
990.	4.38	34.55	1.01		27.41	77.8	1200.	3.70	34.59	27.51	68.6	1.839
1188.	3.67	34.59	1.33		27.52	67.8						
1486.	2.98	34.61	1.77		27.60	60.2						

CROMWELL	13, STATION	11, 16- ON LAT, 153-59W LONG, FEB. 14, 1965, 0100 G.C.T.						VIS. 6	CLOUD TYPE , COVER 9			
DRY BULB 24.4	WET BULB 21.8	WIND SPEED 13, DIR. 00	BAR. 15	WEATHER 02								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.15	33.85	5.32		22.75	511.4	0.	24.15	33.85	22.75	511.4	0.000
11.	24.16	33.84	5.37		22.74	512.8	10.	24.16	33.84	22.74	512.9	0.052
30.	24.08	33.96			22.85	502.6	20.	24.13	33.89	22.78	500.9	0.103
51.	23.98	34.08	5.21		22.97	491.9	30.	24.08	33.96	22.85	502.6	0.154
76.	23.92	34.17	5.42		23.06	484.7	50.	23.98	34.07	22.97	492.4	0.254
99.	22.39	34.74	5.66		23.93	402.2	75.	23.94	34.16	23.05	485.8	0.377
124.	20.34	34.98	5.29		24.68	332.0	100.	22.32	34.76	23.97	399.0	0.489
149.	17.59	34.68	4.88		25.15	287.6	150.	17.45	34.66	25.17	285.7	0.661
174.	14.28	34.31	3.84		25.61	243.1	200.	11.92	34.23	26.03	203.8	0.785
199.	11.97	34.23	2.99		26.02	204.9	250.	10.49	34.42	26.43	166.1	0.878
223.	11.09	34.30	2.03		26.23	184.5	300.	9.79	34.50	26.62	149.1	0.957
247.	10.55	34.41	1.37		26.42	167.6	400.	8.35	34.48	26.83	130.0	1.098
272.	10.12	34.46	1.15		26.53	157.2	500.	7.07	34.46	27.00	114.1	1.221
296.	9.84	34.50	0.90		26.61	150.1	600.	6.24	34.47	27.13	103.1	1.331
394.	8.44	34.48	0.48		26.82	131.1	700.	5.61	34.49	27.22	94.5	1.431
493.	7.14	34.46	0.48		27.00	115.0	800.	5.11	34.51	27.30	87.8	1.523
591.	6.30	34.47	0.50		27.12	104.0	1000.	4.33	34.53	27.40	78.5	1.692
787.	5.17	34.51	0.75		27.29	88.6	1200.	3.74	34.56	27.48	71.0	1.843
983.	4.38	34.53	1.28		27.39	79.2						
1179.	3.83	34.56	1.09		27.48	71.9						
1474.	3.12	34.59	1.60		27.57	63.3						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA				INTERPOLATED DATA					
CROMWELL		13, STATION	12, 17-29N LAT, 153-58W LONG, FEB. 14, 1965, 1000 G.C.T.											
DRY BULB 24.2		WET BULB 21.8	WIND SPEED 20	DIR. 11	BAR. 16	WEATHER 02	VIS. 5	CLOUD TYPE	COVER 8	DYN.DPTH.				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.31	34.17	5.25		22.94	492.8	0.	24.31	34.17	22.94	492.8	0.000		
11.	24.34	34.18	5.20		22.94	493.4	10.	24.34	34.18	22.94	493.6	0.050		
48.	24.14	34.65	5.18		23.36	455.2	20.	24.32	34.27	23.02	486.7	0.099		
72.	23.95	34.89	5.17		23.59	433.5	30.	24.27	34.39	23.12	477.3	0.148		
97.	23.29	34.95	5.16		23.83	411.7	50.	24.13	34.67	23.38	453.4	0.241		
121.	22.58	35.11	5.11		24.16	381.5	75.	23.89	34.90	23.62	431.1	0.353		
145.	20.60	34.96	4.98		24.59	340.8	100.	23.24	34.98	23.87	408.5	0.459		
169.	18.98	34.82	4.49		24.91	311.2	150.	20.26	34.93	24.66	334.5	0.646		
195.	16.95	34.69	4.42		25.31	273.7	200.	16.50	34.64	25.37	267.5	0.797		
218.	14.83	34.44	4.17		25.60	246.2	250.	12.20	34.28	26.01	206.7	0.917		
242.	12.73	34.30	2.95		25.92	215.0	300.	10.41	34.37	26.41	168.9	1.012		
267.	11.34	34.28	2.70		26.17	191.4	400.	8.44	34.40	26.76	137.0	1.166		
291.	10.64	34.36			26.36	173.8	500.	7.24	34.40	26.93	121.3	1.296		
308.	8.75	34.40			26.71	141.5	600.	6.38	34.40	27.05	110.1	1.413		
475.	7.51	34.40			26.90	124.5	700.	5.74	34.45	27.18	99.1	1.519		
571.	6.59	34.39			27.02	113.6	800.	5.22	34.50	27.27	90.4	1.615		
762.	5.42	34.49			27.24	93.0	1000.	4.36	34.52	27.39	79.9	1.787		
953.	4.53	34.51	0.99		27.36	82.2	1200.	3.70	34.55	27.48	71.2	1.940		
1147.	3.90	34.55	1.13		27.46	73.3								
1443.	3.10	34.58	1.68		27.56	63.5								

CROMWELL		13, STATION	13, 18-59N LAT, 153-58W LNGG, FEB. 14, 1965, 1900 G.C.T.										
DRY BULB 23.0		WET BULB 20.9	WIND SPEED 13	DIR. 19	BAR. 19	WEATHER 03	VIS. 7	CLOUD TYPE 6	COVER 8	DYN.DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.00	35.08	5.27		24.01	390.6	0.	23.00	35.08	24.01	390.6	0.000	
10.	23.06	35.08	5.38		24.00	392.6	10.	23.06	35.08	24.00	392.6	0.039	
30. <sup>Δ</sup>	23.05	35.08			24.00	393.1	20.	23.07	35.08	24.00	393.1	0.079	
49.	23.04	35.08	5.28		24.00	393.6	30.	23.05	35.08	24.00	393.1	0.119	
73.	22.94	35.11	5.25		24.05	389.6	50.	23.04	35.08	24.00	393.6	0.198	
97.	22.43	35.28	5.29		24.33	364.3	75.	22.92	35.13	24.07	387.9	0.296	
121.	21.17	35.21	5.06		24.63	336.7	100.	22.29	35.28	24.37	360.8	0.391	
146.	20.13	35.21	5.05		24.91	310.8	150.	19.94	35.18	24.94	308.1	0.559	
168.	18.94	35.02	4.87		25.07	295.8	200.	16.38	34.65	25.41	263.6	0.703	
194.	16.87	34.72	4.63		25.35	269.6	250.	12.56	34.27	25.94	213.9	0.824	
218.	14.99	34.48	4.57		25.59	246.7	300.	10.01	34.17	26.33	176.8	0.922	
241.	13.55	34.34	4.57		25.79	228.1	400.	8.86	34.48	26.76	137.4	1.081	
255.	12.02	34.24	4.57		26.01	206.4	500.	7.78	34.50	26.94	121.4	1.211	
277.	10.70	34.14	4.64		26.18	190.7	600.	6.66	34.46	27.06	109.5	1.328	
369.	9.23	34.45	1.00		26.67	145.3	700.	5.68	34.42	27.15	101.1	1.434	
465.	8.17	34.50	0.54		26.88	126.8	800.	5.06	34.42	27.23	94.0	1.533	
554.	7.18	34.49	0.71		27.01	114.3	1000.	4.38	34.50	27.37	81.4	1.711	
740.	5.35	34.40	0.78		27.18	98.5	1200.	3.75	34.55	27.48	71.9	1.866	
926.	4.64	34.48	1.01		27.33	85.6							
1113.	4.01	34.53	1.17		27.43	75.0							
1393.	3.23	34.57	1.57		27.54	65.5							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19

CROMWELL		13, STATION	14, 20-30N LAT, 153-56W LONG, FEB. 15, 1965, 0400 G.C.T.										
DRY BULB 22.2		WET BULB 20.0	WIND SPEED 10	DIR. 13	BAR. 15	WEATHER 50	VIS. 7	CLOUD TYPE 8	COVER 8	DYN.DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.13	34.74	5.30		23.72	418.7	0.	23.13	34.74	23.72	418.7	0.000	
11.	23.17	34.74	5.28		23.71	420.2	10.	23.17	34.74	23.71	420.1	0.042	
30. <sup>Δ</sup>	23.16	34.76			23.73	419.2	20.	23.17	34.74	23.71	420.5	0.085	
51.	23.13	34.91	5.24		23.85	408.4	30.	23.16	34.76	23.73	419.2	0.127	
77.	22.44	35.07	5.27		24.17	379.0	50.	23.14	34.90	23.84	409.1	0.210	
101.	22.05	35.20	5.24		24.38	360.0	75.	22.50	35.06	24.14	381.4	0.310	
126.	20.25	35.01	4.75		24.72	327.6	100.	22.08	35.20	24.37	360.8	0.403	
153.	18.46	34.87	4.62		25.08	294.5	150.	18.64	34.88	25.04	297.8	0.569	
178.	17.24	34.75	4.74		25.28	275.4	200.	15.22	34.47	25.53	251.8	0.708	
203.	14.93	34.43	4.56		25.57	248.6	250.	11.93	34.16	25.97	210.6	0.824	
227.	13.32	34.28	4.55		25.79	227.5	300.	9.83	34.07	26.28	181.6	0.923	
252.	11.82	34.15	4.81		25.98	209.3	400.	7.37	34.07	26.65	145.8	1.088	
278.	10.57	34.08	4.74		26.16	192.9	500.	6.27	34.23	26.93	119.9	1.223	
303.	9.74	34.07	4.29		26.29	180.2	600.	5.24	34.29	27.11	103.6	1.335	
403.	7.32	34.07	2.60		26.66	145.0	700.	4.68	34.37	27.24	91.7	1.434	
504.	6.24	34.24	1.21		26.94	119.0	800.	4.39	34.46	27.33	83.0	1.523	
604.	5.20	34.29	0.80		27.11	103.1	1000.	3.87	34.52	27.44	73.9	1.681	
805.	4.38	34.46	0.95		27.34	82.6	1200.	3.29	34.55	27.52	66.4	1.823	
1006.	3.86	34.52	1.21		27.44	73.8	1500.	2.67	34.60	27.62	57.4	2.012	
1208.	3.27	34.55	1.52		27.52	66.1							
1510.	2.65	34.60	1.82		27.62	57.1							

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		13, STATION 15, 22-4N LAT, 153-52W LONG, FEB. 15, 1965, 1400 G.C.T.		DRY BULB 21.9 WET BULB 19.7 WIND SPEED 08, DIR. 23		BAR. 17 WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.94	34.90	5.84	23.90	401.9	0.	22.94	34.90	23.90	401.9	0.000		
10.	22.87	34.92	5.30	23.93	398.9	10.	22.87	34.92	23.93	398.9	0.040		
30. <sup>A</sup>	22.68	35.04		24.08	385.9	20.	22.78	34.98	24.00	392.9	0.080		
50.	22.48	35.13	5.26	24.20	374.7	30.	22.68	35.04	24.08	385.9	0.119		
74.	22.30	35.22	5.22	24.32	364.2	50.	22.48	35.13	24.20	374.7	0.196		
98.	21.39	35.21	5.06	24.57	341.6	75.	22.27	35.22	24.33	363.4	0.289		
122.	20.42	35.13	4.98	24.77	323.1	100.	21.31	35.20	24.58	339.9	0.378		
147.	19.51	35.06	4.83	24.95	306.2	150.	19.40	35.05	24.98	304.3	0.540		
170.	18.60	34.96	4.91	25.11	291.9	200.	17.07	34.75	25.32	272.4	0.685		
194.	17.41	34.80	4.92	25.28	276.2	250.	13.93	34.36	25.72	234.7	0.813		
218.	15.96	34.58	4.76	25.45	260.3	300.	11.22	34.08	26.04	204.7	0.924		
242.	14.35	34.39	4.81	25.66	240.6	400.	8.36	34.04	26.49	162.2	1.109		
266.	13.11	34.29	4.95	25.84	223.7	500.	6.26	34.06	26.80	132.7	1.258		
288.	11.74	34.12	4.81	25.97	210.9	600.	5.31	34.17	27.01	113.2	1.382		
383.	8.83	34.05	3.93	26.42	168.6	700.	4.82	34.31	27.17	98.2	1.489		
475.	6.63	34.04	2.45	26.73	138.7	800.	4.56	34.42	27.28	88.1	1.583		
569.	5.53	34.13	1.29	26.95	118.8	1000.	4.07	34.51	27.41	77.3	1.750		
756.	4.68	34.38	0.74	27.24	91.7	1200.	3.54	34.56	27.50	68.7	1.898		
944.	4.24	34.49	1.01	27.38	80.0								
1131.	3.66	34.53	1.25	27.47	71.7								
1415.	3.02	34.58	1.62	27.57	62.4								

CROMWELL		13, STATION 16, 23-28N LAT, 153-58W LONG, FEB. 15, 1965, 2200 G.C.T.		DRY BULB 23.2 WET BULB 20.8 WIND SPEED 10, DIR. 09		BAR. 16 WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.38	34.82	5.25	23.71	419.8	0.	23.38	34.82	23.71	419.8	0.000		
9.	23.34	34.85	5.26	23.74	416.9	10.	23.34	34.85	23.75	416.6	0.042		
30. <sup>A</sup>	23.22	34.91		23.82	410.1	20.	23.28	34.88	23.78	413.5	0.084		
50.	23.08	35.00	5.24	23.93	400.5	30.	23.22	34.91	23.82	410.1	0.125		
75.	22.66	35.14	5.22	24.16	379.8	50.	23.08	35.00	23.93	400.5	0.207		
100.	22.24	35.19	5.14	24.31	365.8	75.	22.66	35.14	24.16	379.8	0.305		
126.	21.00	35.17	4.92	24.64	335.3	100.	22.24	35.19	24.31	365.8	0.399		
152.	19.46	35.05	4.74	24.96	305.8	150.	19.58	35.06	24.94	307.9	0.569		
176.	18.06	34.84	4.54	25.15	287.9	200.	16.69	34.68	25.36	268.5	0.714		
203.	16.50	34.66	4.79	25.39	265.9	250.	13.73	34.35	25.76	231.4	0.840		
228.	14.58	34.42	4.78	25.64	242.8	300.	11.30	34.19	26.11	197.9	0.949		
253.	13.62	34.34	4.88	25.78	229.8	400.	8.88	34.08	26.44	167.2	1.133		
279.	11.89	34.23	5.05	26.03	205.3	500.	6.61	34.05	26.74	138.0	1.287		
303.	11.25	34.19	4.94	26.12	197.2	600.	5.38	34.13	26.96	117.2	1.416		
405.	8.76	34.08	4.57	26.46	165.7	700.	4.78	34.25	27.13	101.7	1.526		
507.	6.47	34.05	2.29	26.76	136.2	800.	4.46	34.37	27.26	90.2	1.623		
607.	5.33	34.14	1.12	26.98	115.9	1000.	3.98	34.49	27.40	77.7	1.793		
809.	4.44	34.38	0.73	27.27	89.3	1200.	3.40	34.55	27.51	67.8	1.940		
1011.	3.96	34.49	1.08	27.41	77.2	1500.	2.84	34.58	27.59	60.8	2.136		
1213.	3.36	34.55	1.51	27.51	67.2								
1515.	2.82	34.58	1.71	27.59	60.6								

CROMWELL		13, STATION 17, 23-26N LAT, 150-55W LONG, FEB. 16, 1965, 1400 G.C.T.		DRY BULB 22.0 WET BULB 19.8 WIND SPEED 13, DIR. 15		BAR. 14 WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 4			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.62	34.95		24.02	389.6	0.	22.62	34.95	24.02	389.6	0.000		
10. <sup>A</sup>	22.62	34.96		24.03	389.2	10.	22.62	34.96	24.03	389.2	0.039		
30. <sup>A</sup>	22.66	34.97		24.03	390.4	20.	22.64	34.97	24.03	389.8	0.078		
52.	22.61	34.98		24.05	389.1	30.	22.66	34.97	24.03	390.4	0.118		
77.	22.11	35.18		24.34	362.1	50.	22.62	34.98	24.04	389.7	0.196		
101.	21.56	35.26		24.56	342.6	75.	22.16	35.16	24.32	364.7	0.291		
126.	20.12	35.15		24.86	314.2	100.	21.59	35.26	24.55	343.4	0.381		
153.	19.30	35.09		25.03	299.0	150.	19.38	35.10	25.02	300.2	0.543		
178.	18.40	34.95		25.15	288.1	200.	17.13	34.74	25.30	274.2	0.687		
202.	16.99	34.72		25.32	272.6	250.	13.40	34.34	25.82	225.4	0.813		
228.	14.82	34.46		25.61	244.8	300.	11.63	34.20	26.06	203.5	0.922		
252.	13.29	34.33		25.83	223.9	400.	8.45	34.04	26.48	163.6	1.107		
278.	12.34	34.26		25.97	211.5	500.	6.39	34.04	26.76	135.9	1.258		
303.	11.54	34.19		26.07	202.4	600.	5.24	34.15	27.00	114.0	1.384		
404.	8.33	34.04		26.49	162.1	700.	4.68	34.28	27.16	98.5	1.492		
505.	6.31	34.04		26.78	134.8	800.	4.38	34.39	27.28	87.7	1.586		
607.	5.19	34.16		27.01	112.7	1000.	3.90	34.50	27.42	75.9	1.751		
808.	4.37	34.40		27.29	87.0	1200.	3.38	34.54	27.50	68.2	1.897		
1010.	3.88	34.50		27.42	75.5	1500.	2.81	34.59	27.60	59.7	2.092		
1211.	3.35	34.54		27.51	67.9								
1515.	2.78	34.59		27.60	59.4								

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA						
CROMWELL		13, STATION 18, 22- ON LAT, 150-58W LONG, FEB. 16, 1965, 2300 G.C.T.						WEATHER 21		VIS. 7	CLOUD	TYPE 6,	COVER 6	
DRY BULB 24.2		WET BULB 21.0			WIND SPEED 10, DIR. 17			BAR. 14						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.47	34.14			23.17	471.4	0.	23.47	34.14	23.17	471.4	0.000		
9.	23.33	34.15			23.22	467.1	10.	23.32	34.15	23.22	466.9	0.047		
30. <sup>A</sup>	23.28	34.18			23.25	464.4	20.	23.27	34.16	23.24	465.2	0.094		
50.	23.32	34.26			23.30	460.5	30.	23.28	34.18	23.25	464.4	0.141		
75.	22.98	34.61			23.66	426.8	50.	23.32	34.26	23.30	460.5	0.234		
99.	19.37	34.58			24.63	335.8	75.	22.98	34.61	23.66	426.8	0.346		
124.	17.26	34.62			25.18	283.6	100.	19.28	34.58	24.85	333.3	0.442		
149.	14.29	34.36			25.65	239.0	150.	14.22	34.35	25.66	238.0	0.586		
173.	13.06	34.28			25.84	221.1	200.	11.84	34.30	26.09	197.4	0.695		
199.	11.88	34.30			26.09	198.1	250.	9.42	34.15	24.41	168.0	0.787		
224.	10.76	34.24			26.25	183.2	300.	8.42	34.18	26.59	151.0	0.868		
248.	9.50	34.16			26.40	168.6	400.	6.45	34.20	26.88	123.5	1.006		
274.	8.76	34.09			26.46	162.6	500.	6.23	34.37	27.05	109.0	1.124		
298.	8.46	34.18			26.58	151.8	600.	5.74	34.42	27.15	100.2	1.229		
396.	6.47	34.19			26.87	124.3	700.	5.20	34.45	27.24	92.4	1.327		
497.	6.24	34.37			27.05	109.3	800.	4.71	34.47	27.31	85.8	1.417		
596.	5.76	34.42			27.15	100.6	1000.	4.14	34.52	27.41	77.0	1.582		
795.	4.73	34.47			27.31	86.1	1200.	3.57	34.55	27.50	69.5	1.730		
985.	4.19	34.52			27.41	77.6								
1178.	3.56	34.54			27.49	70.1								
1472.	3.02	34.59			27.58	62.0								

CROMWELL					13, STATION 19, 20-29N LAT, 150-59W LONG, FEB. 17, 1965, 0900 G.C.T.						INTERPOLATED DATA						
DRY BULB 22.9		WET BULB 19.7			WIND SPEED 16, DIR. 35			BAR. 16		WEATHER 01		VIS. 6	CLOUD	TYPE 4,	COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	23.50	34.48			23.42	447.7	0.	23.50	34.48	23.42	447.5	0.000					
10.	23.61	34.53			23.42	447.5	10.	23.61	34.53	23.42	447.5	0.045					
30. <sup>A</sup>	23.58	34.64			23.51	439.5	20.	23.63	34.58	23.46	444.7	0.090					
50.	23.35	34.79			23.69	423.1	30.	23.58	34.64	23.51	439.5	0.135					
75.	23.25	35.01			23.89	405.4	50.	23.35	34.79	23.69	423.1	0.221					
99.	22.83	35.10			24.08	388.2	75.	23.25	35.01	23.89	405.4	0.326					
123.	21.91	35.29			24.48	350.6	100.	22.80	35.11	24.09	386.9	0.426					
148.	20.16	35.18			24.88	313.8	150.	20.02	35.16	24.90	311.7	0.602					
173.	18.38	34.91			25.13	290.4	200.	16.46	34.67	25.40	264.4	0.747					
197.	16.68	34.70			25.38	266.9	250.	11.57	34.16	26.04	203.6	0.865					
222.	14.62	34.43			25.63	242.7	300.	9.67	34.10	26.32	177.0	0.961					
246.	11.84	34.18			26.00	207.3	400.	6.97	34.13	26.76	135.8	1.119					
271.	10.58	34.13			26.19	189.2	500.	6.34	34.32	27.00	114.2	1.245					
295.	9.84	34.10			26.30	179.5	600.	5.15	34.32	27.14	100.4	1.353					
392.	7.05	34.11			26.73	138.1	700.	4.72	34.40	27.25	90.2	1.449					
491.	6.45	34.32			26.98	115.7	800.	4.55	34.49	27.34	82.7	1.537					
589.	5.22	34.31			27.12	101.7	1000.	3.91	34.53	27.44	73.8	1.695					
784.	4.60	34.48			27.33	83.6	1200.	3.37	34.56	27.52	66.2	1.837					
972.	3.99	34.52			27.43	75.0											
1165.	3.45	34.56			27.51	67.2											
1458.	2.82	34.60			27.60	58.8											

CROMWELL					13, STATION 20, 19- ON LAT, 151- ON LONG, FEB. 17, 1965, 1700 G.C.T.						INTERPOLATED DATA						
DRY BULB 23.0		WET BULB 19.8			WIND SPEED 14, DIR. 35			BAR. 15		WEATHER 03		VIS. 7	CLOUD	TYPE 8,	COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	23.71	34.55			23.41	448.5	0.	23.71	34.55	23.41	449.4	0.000					
10.	23.73	34.55			23.40	449.4	10.	23.73	34.55	23.40	449.4	0.045					
30. <sup>A</sup>	23.70	34.70			23.52	438.6	20.	23.72	34.61	23.45	445.0	0.090					
51.	23.63	34.82			23.63	428.7	30.	23.70	34.70	23.52	438.6	0.135					
77.	23.53	34.94			23.75	418.3	50.	23.63	34.81	23.63	429.2	0.222					
102.	21.96	35.02			24.26	370.6	75.	23.57	34.93	23.74	419.8	0.329					
128.	20.86	35.08			24.61	338.3	100.	22.10	35.01	24.22	374.7	0.429					
153.	19.76	35.08			24.90	311.2	150.	19.91	35.09	24.87	314.2	0.603					
178.	18.04	34.82			25.14	289.0	200.	16.83	34.70	25.35	270.1	0.750					
204.	16.58	34.68			25.39	266.3	250.	12.78	34.24	25.87	220.4	0.874					
229.	14.20	34.39			25.69	237.2	300.	10.07	34.09	26.25	184.3	0.976					
254.	12.53	34.22			25.90	217.4	400.	7.17	34.07	26.68	142.9	1.141					
279.	10.78	34.10			26.13	195.0	500.	5.85	34.21	26.97	116.4	1.272					
305.	9.95	34.09			26.27	182.2	600.	5.51	34.38	27.14	100.5	1.381					
405.	7.05	34.07			26.70	141.2	700.	5.11	34.45	27.25	91.0	1.478					
507.	5.81	34.22			26.88	114.9	800.	4.68	34.48	27.32	84.8	1.567					
608.	5.50	34.39			27.15	99.6	1000.	4.10	34.53	27.42	76.1	1.730					
810.	4.64	34.48			27.33	84.4	1200.	3.52	34.56	27.51	68.4	1.876					
1013.	4.07	34.53			27.43	75.6	1500.	2.82	34.59	27.60	59.9	2.071					
1213.	3.48	34.56			27.51	67.9											
1515.	2.79	34.59			27.60	59.5											

FROM BY DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 13, STATION 21, 17-27N LAT, 150-59W LONG, FEB. 18, 1965, 0200 G.C.T.		DRY BULB 26.5 WET BULB 22.0		WIND SPEED 15, DIR. 01		BAR. 15		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.28	34.21		22.98	489.1	0.	24.28	34.21	22.98	489.1	0.000			
11. <sup>A</sup>	24.26	34.25		23.02	486.1	10.	24.26	34.25	23.02	486.3	0.049			
30.	24.16	34.29		23.08	481.1	20.	24.22	34.27	23.05	483.5	0.098			
52.	24.10	34.32		23.12	478.0	30.	24.16	34.29	23.08	481.1	0.147			
78.	24.21	34.64		23.33	459.1	50.	24.10	34.31	23.11	478.5	0.243			
103.	22.99	34.95		23.92	403.6	75.	24.23	34.60	23.29	462.7	0.362			
129.	20.94	34.90		24.45	353.4	100.	23.19	34.92	23.84	411.0	0.472			
155.	20.75	35.15		24.70	331.3	150.	20.75	35.10	24.66	334.6	0.660			
179.	19.85	35.13		24.92	310.7	200.	17.95	34.86	25.20	284.7	0.816			
205.	17.42	34.78		25.26	278.2	250.	13.05	34.29	25.85	222.4	0.944			
230.	14.90	34.45		25.59	247.3	300.	10.44	34.28	26.33	176.7	1.044			
255.	12.63	34.26		25.91	216.4	400.	8.36	34.34	26.72	140.2	1.204			
280.	11.00	34.23		26.20	189.3	500.	7.68	34.46	26.92	123.0	1.337			
305.	10.35	34.29		26.36	174.3	600.	6.80	34.48	27.06	110.2	1.455			
407.	8.25	34.34		26.74	138.8	700.	6.00	34.48	27.17	100.5	1.561			
509.	7.65	34.47		26.93	121.9	800.	5.37	34.49	27.25	92.9	1.659			
610.	6.70	34.48		27.07	109.1	1000.	4.49	34.53	27.38	80.9	1.835			
813.	5.30	34.49		27.26	92.0	1200.	3.81	34.55	27.47	72.7	1.990			
1014.	4.44	34.53		27.39	80.2	1500.	3.10	34.60	27.58	62.6	2.196			
1216.	3.76	34.55		27.47	72.1	2000.	2.21	34.65	27.70	50.6	2.484			
1508.	3.08	34.60		27.58	62.3	2500.	1.85	34.67	27.74	46.7	2.731			
1520.	3.03	34.60		27.59	61.7	3000.	1.64	34.69	27.77	44.3	2.964			
2000.	2.21	34.65		27.70	50.6	4000.	1.42	34.71	27.80	42.4	3.408			
2504.	1.85	34.67		27.74	46.7									
3511.	1.52	34.70		27.79	43.1									
4519.*	1.44 **	34.71 **		27.80	43.8									

CROMWELL 13, STATION 22, 16- ON LAT, 151- 2W LONG, FEB. 18, 1965, 1300 G.C.T.		DRY BULB 23.0		WET BULB 20.9		WIND SPEED 21, DIR. 03		BAR. 15		WEATHER 02		VIS. 6 CLOUD TYPE 6, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.03	34.07		22.95	492.1	0.	24.03	34.07	22.95	492.1	0.000			
10.	24.06	34.07		22.94	493.3	10.	24.06	34.07	22.94	493.3	0.050			
50.	23.97	34.08		22.98	491.6	20.	24.06	34.02	22.90	497.7	0.100			
75.	23.80	34.68		23.48	444.5	30.	24.05	34.00	22.89	498.8	0.150			
99.	21.22	34.88		24.36	361.0	50.	23.97	34.08	22.98	491.6	0.250			
123.	19.58	34.99		24.88	312.1	75.	23.80	34.68	23.48	444.5	0.367			
148.	17.74	34.82		25.22	280.9	100.	21.14	34.89	24.39	358.5	0.469			
172.	14.19	34.38		25.69	236.1	150.	17.44	34.78	25.26	277.0	0.629			
197.	12.34	34.35		26.04	202.9	200.	12.19	34.37	26.08	198.8	0.749			
221.	11.45	34.52		26.34	174.7	250.	11.17	34.64	26.48	161.8	0.839			
246.	11.22	34.63		26.47	163.1	300.	10.42	34.64	26.62	149.7	0.918			
271.	10.87	34.65		26.55	156.0	400.	9.30	34.64	26.80	133.4	1.061			
295.	10.49	34.64		26.61	150.7	500.	8.31	34.57	26.91	124.7	1.191			
392.	9.38	34.64		26.79	134.2	600.	7.27	34.53	27.03	113.5	1.311			
492.	8.40	34.57		26.90	125.6	700.	6.61	34.51	27.13	104.0	1.421			
589.	7.37	34.53		27.02	114.7	800.	5.74	34.51	27.22	96.3	1.523			
786.	5.62	34.51		27.21	97.1	1000.	4.80	34.52	27.34	85.2	1.706			
982.	4.88	34.52		27.33	86.3	1200.	4.02	34.55	27.45	75.5	1.869			
1177.	4.10	34.55		27.44	76.0									
1481.	3.26	34.58		27.55	65.7									

CROMWELL 13, STATION 23, 14-30N LAT, 151- 1W LONG, FEB. 18, 1965, 2200 G.C.T.		DRY BULB 24.8		WET BULB 22.0		WIND SPEED 22, DIR. 03		BAR. 17		WEATHER 02		VIS. 9 CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.30	33.99		22.81	505.5	0.	24.30	33.99	22.81	505.5	0.000			
10. <sup>A</sup>	24.24	34.00		22.84	503.5	10.	24.24	34.00	22.85	502.9	0.051			
30.	24.18	34.00		22.85	502.5	20.	24.21	34.00	22.85	502.5	0.101			
50.	24.06	34.00		22.89	499.9	30.	24.06	34.00	22.89	499.9	0.253			
75.	21.21	34.67		24.21	375.1	50.	24.06	34.00	22.89	499.9	0.363			
99.	19.50	34.78		24.74	324.5	75.	21.21	34.67	24.21	375.1	0.451			
124.	18.62	34.81		24.99	301.7	100.	19.47	34.79	24.75	323.5	0.599			
149.	16.00	34.51		25.39	264.1	150.	15.86	34.50	25.41	262.0	0.599			
173.	12.82	34.29		25.90	215.7	200.	10.95	34.27	26.24	183.5	0.711			
198.	11.06	34.28		26.22	184.9	250.	10.31	34.47	26.51	159.0	0.797			
223.	10.20	34.26		26.36	172.2	300.	9.28	34.47	26.68	149.0	0.874			
246.	10.46	34.48		26.49	160.9	400.	7.95	34.47	26.89	124.4	1.008			
272.	9.38	34.39		26.60	150.2	500.	7.09	34.51	27.04	110.8	1.127			
297.	9.31	34.47		26.67	143.6	600.	6.32	34.48	27.12	103.6	1.235			
395.	8.00	34.47		26.88	125.2	700.	5.68	34.50	27.22	95.3	1.336			
493.	7.15	34.51		27.03	111.4	800.	5.15	34.52	27.30	87.6	1.428			
591.	6.38	34.48		27.11	104.4	1000.	4.30	34.54	27.41	77.5	1.595			
788.	5.21	34.52		27.29	88.4	1200.	3.65	34.56	27.50	69.7	1.745			
986.	4.35	34.54		27.41	78.1									
1182.	3.73	34.56		27.49	70.7									
1481.	3.00	34.60		27.59	61.1									

FROM BT DATA  
\*\*EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL		13, STATION 24, 13- ON LAT, 151- 0W LONG, FEB. 19, 1965, 0800 G.C.T.															
DRY BULB	24.5	WET BULB	21.8											VIS. 7	CLOUD TYPE	COVER 2	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	24.92	34.33			22.88	498.8	0.	24.92	34.33	22.88	498.8	0.000					
9.	24.93	34.34			22.89	498.7	10.	24.93	34.34	22.89	498.7	0.050					
48.	24.92	34.34			22.89	499.9	20.	24.94	34.35	22.89	499.0	0.100					
72.	24.82	34.31			22.90	500.1	30.	24.94	34.35	22.89	499.3	0.151					
96.	20.48	34.82			24.52	346.1	50.	24.99	34.33	22.86	503.0	0.252					
121.	15.97	34.48			25.37	264.8	75.	24.39	34.38	23.08	482.8	0.376					
144.	12.75	34.34			25.95	210.0	100.	19.72	34.79	24.69	329.4	0.478					
167.	11.56	34.48			26.29	178.3	150.	12.30	34.36	26.06	200.0	0.612					
192.	11.21	34.63			26.47	161.6	200.	11.10	34.64	26.50	158.8	0.702					
216.	10.88	34.65			26.54	154.9	250.	10.39	34.65	26.63	147.2	0.779					
240.	10.52	34.65			26.61	149.3	300.	9.86	34.65	26.72	139.7	0.852					
265.	10.21	34.65			26.66	144.5	400.	8.87	34.61	26.85	128.3	0.987					
288.	9.97	34.65			26.70	141.0	500.	7.71	34.60	27.02	113.4	1.109					
384.	9.06	34.61			26.82	131.1	600.	6.78	34.52	27.09	107.1	1.220					
481.	7.91	34.61			27.00	115.0	700.	6.06	34.50	27.17	99.9	1.325					
576.	6.98	34.53			27.07	108.8	800.	5.48	34.51	27.26	92.4	1.422					
770.	5.65	34.51			27.23	94.7	1000.	4.55	34.55	27.40	79.6	1.596					
961.	4.71	34.55			27.37	81.6	1200.	3.82	34.58	27.49	70.5	1.748					
1155.	3.98	34.57			27.47	72.8											
1445.	3.17	34.60			27.57	62.9											
CROMWELL		13, STATION 25, 11-30N LAT, 150-57W LONG, FEB. 19, 1965, 1700 G.C.T.												VIS. 7	CLOUD TYPE 8,	COVER 3	
DRY BULB	24.3	WET BULB	22.0														
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	24.56	34.10			22.82	505.0	0.	24.56	34.10	22.82	505.0	0.000					
11.	24.57	34.10			22.81	505.7	10.	24.57	34.10	22.81	505.7	0.051					
30 <sup>A</sup>	24.55	34.10			22.82	505.9	20.	24.56	34.10	22.82	505.8	0.102					
48.	24.56	34.10			22.82	506.8	30.	24.55	34.10	22.82	505.9	0.153					
72.	20.25	34.80			24.56	340.9	50.	24.26	34.16	22.95	494.0	0.254					
95.	18.09	34.70			25.04	296.1	75.	19.94	34.81	24.65	332.2	0.358					
119.	14.68	34.37			25.57	245.4	100.	17.37	34.62	25.15	285.2	0.435					
143.	12.67	34.49			26.08	197.4	150.	12.34	34.57	26.21	185.8	0.554					
166.	11.81	34.72			26.43	165.2	200.	11.12	34.72	26.36	153.3	0.639					
190.	11.25	34.72			26.53	155.7	250.	10.64	34.72	26.64	146.1	0.715					
213.	10.99	34.73			26.59	150.9	300.	10.23	34.72	26.71	140.7	0.787					
237.	10.76	34.73			26.63	147.4	400.	9.49	34.68	26.81	133.1	0.925					
260.	10.55	34.72			26.66	145.1	500.	8.67	34.64	26.91	125.2	1.056					
283.	10.36	34.72			26.69	142.3	600.	7.65	34.59	27.02	114.8	1.177					
377.	9.65	34.69			26.79	134.6	700.	6.71	34.56	27.13	104.7	1.288					
473.	8.93	34.65			26.88	127.8	800.	5.94	34.55	27.22	96.2	1.389					
567.	7.99	34.60			26.98	118.5	1000.	4.87	34.55	27.36	84.0	1.572					
757.	6.22	34.55			27.19	99.3	1200.	4.02	34.57	27.46	74.0	1.732					
949.	5.14	34.55			27.32	87.1	1500.	3.26	34.60	27.56	64.6	1.943					
1142.	4.21	34.56			27.44	76.3	2000.	2.34	34.64	27.68	52.9	2.241					
1432.	3.42	34.59			27.54	66.7	2500.	1.92	34.66	27.73	48.3	2.499					
1984.	2.36	34.64			27.68	53.2	3000.	1.76	34.68	27.76	46.4	2.741					
2488.	1.93	34.66			27.73	48.4	4000.	1.48	34.70	27.80	43.6	3.202					
2992.	1.76	34.68			27.76	46.5	5000.	1.42	34.71	27.80	44.6	3.657					
3949.	1.44	34.70			27.80	43.1											
5011.	1.42	34.71			27.80	44.7											
CROMWELL		13, STATION 26, 10- 5N LAT, 148- 9W LONG, FEB. 20, 1965, 1500 G.C.T.												VIS. 7	CLOUD TYPE 8,	COVER 8	
DRY BULB	25.5	WET BULB	23.2														
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	25.57	33.98	5.31		22.42	542.9	0.	25.57	33.98	22.42	542.9	0.000					
10.	25.58	33.98	5.30		22.42	543.6	10.	25.58	33.98	22.42	543.6	0.055					
30 <sup>A</sup>	25.55	33.98	5.30		22.43	543.5	20.	25.72	33.95	22.35	550.3	0.110					
52.	22.66	34.52	5.29		23.69	423.7	30.	25.55	33.98	22.43	543.5	0.165					
78.	15.36	34.45	3.69		25.49	252.6	50.	23.05	34.47	23.54	437.7	0.264					
103.	12.89	34.59	0.71		26.12	193.3	75.	16.19	34.47	25.32	268.7	0.353					
128.	11.78	34.70	0.28		26.42	165.2	100.	13.03	34.57	26.07	197.5	0.411					
153.	11.21	34.70	0.27		26.52	155.6	150.	11.26	34.70	26.52	156.2	0.501					
178.	10.92	34.72	0.26		26.59	149.6	200.	10.67	34.73	26.64	145.1	0.576					
204.	10.63	34.73	0.32		26.65	144.5	250.	10.17	34.69	26.70	140.3	0.648					
230.	10.37	34.71	0.32		26.68	142.1	300.	9.73	34.68	26.77	134.9	0.718					
255.	10.12	34.69	0.42		26.71	139.9	400.	8.93	34.65	26.88	126.2	0.850					
280.	9.92	34.69	0.36		26.74	137.1	500.	7.93	34.58	26.97	118.0	0.973					
305.	9.68	34.68	0.38		26.78	134.4	600.	7.01	34.55	27.08	108.1	1.087					
407.	8.88	34.65	0.28		26.88	125.7	700.	6.12	34.53	27.19	98.3	1.191					
510.	7.82	34.57	0.51		26.98	117.1	800.	5.43	34.53	27.27	90.7	1.207					
611.	6.92	34.55	0.36		27.10	107.0	1000.	4.89	34.57	27.37	83.1	1.463					
815.	5.35	34.53	0.64		27.28	89.8	1200.	3.81	34.58	27.49	70.4	1.618					
945.	5.15	34.56	1.20		27.33	86.4	1500.	3.01	34.61	27.59	60.7	1.810					
1222.	3.68	34.58	1.61		27.51	69.0											
1526.	2.92	34.61	1.90		27.60	59.7											
TEMPERATURE ERROR TERM AT 20. METERS IS 0.10																	
TEMPERATURE ERROR TERM AT 75. METERS IS 0.15																	

Table 3.--Continued

CROMWELL		13, STATION	29, 14-30N LAT.	147-58W LONG.	FEB. 21, 1965,	1900 G.C.T.				
DRY BULB	24.7	WET BULB	22.0	WIND SPEED	16, DIR. 02	BAR. 15	WEATHER OI	VIS. 7	CLOUD TYPE 8,	COVER 4
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T
0.	24.11	34.10	4.98	22.95	492.2	0.	24.11	34.10	22.95	492.2
11.	24.08	34.09	5.08	22.95	492.5	10.	24.08	34.09	22.95	492.5
30. <sup>A</sup>	24.07	34.09		22.95	492.9	20.	24.09	34.09	22.95	493.2
52.	23.72	34.10	4.94	23.06	483.2	30.	24.07	34.09	22.95	492.9
77.	21.35	34.77	4.98	24.24	371.6	50.	23.79	34.09	23.03	486.1
102.	19.43	34.88	4.86	24.84	315.6	75.	21.57	34.71	24.14	381.3
128.	18.14	34.82	4.63	25.12	289.7	100.	19.56	34.88	24.81	318.5
154.	14.53	34.36	4.09	25.60	244.0	150.	15.14	34.43	25.52	251.2
177.	11.84	34.19	3.57	26.01	204.9	200.	10.47	34.22	26.28	179.1
204.	10.35	34.24	2.82	26.32	175.8	250.	10.05	34.49	26.57	153.1
229.	10.29	34.41	1.36	26.46	162.8	300.	8.93	34.47	26.73	137.7
254.	9.98	34.50	0.93	26.58	151.5	400.	8.48	34.59	26.90	123.9
280.	9.30	34.44	0.97	26.65	145.4	500.	7.45	34.56	27.03	112.6
304.	8.87	34.48	0.86	26.75	136.1	600.	6.74	34.52	27.10	106.4
405.	8.48	34.59	0.30	26.90	123.8	700.	5.96	34.51	27.19	97.7
507.	7.37	34.55	0.35	27.03	111.9	800.	5.24	34.52	27.29	89.0
607.	6.70	34.52	0.34	27.10	106.1	1000.	4.52	34.56	27.40	79.1
810.	5.17	34.52	0.59	27.30	88.1	1200.	3.80	34.64	27.54	66.1
1012.	4.49	34.56	0.76	27.41	78.6	1500.	3.04	34.62	27.60	60.0
1213.	3.75	34.64	1.19	27.55	65.3					
1516.	3.00	34.62	1.76	27.60	59.9					

AEROM RT DATA

Table 3.--Continued

ORIGINAL DATA						DERIVED DATA			INTERPOLATED DATA					
CROMWELL		13, STATION		30, 15-57N LAT, 147-58W LONG, FEB. 22, 1965, 0400 G.C.T.					VIS. 5		CLOUD TYPE 9, COVER 8			
DRY BULB	21.7	WET BULB	19.2	WIND SPEED	35, DIR. 33	BAR. 15	WEATHER 99							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.67	34.10	5.06	23.08	479.9	0.	23.67	34.10	23.08	479.9	0.000			
9.	23.72	34.16	5.17	23.11	477.3	10.	23.72	34.16	23.11	477.3	0.048			
50.	23.69	34.18	5.02	23.13	476.5	20.	23.72	34.17	23.11	477.2	0.096			
74.	23.78	34.37	5.03	23.25	466.3	30.	23.72	34.17	23.12	477.1	0.146			
99.	21.29	34.88	5.34	24.34	362.9	50.	23.69	34.18	23.13	476.5	0.240			
123.	20.01	34.96	4.79	24.75	325.1	75.	23.69	34.39	23.29	462.4	0.359			
148.	18.67	34.86	4.59	25.02	300.1	100.	21.23	34.89	24.37	360.6	0.462			
173.	15.95	34.49	4.11	25.39	265.2	150.	18.49	34.83	25.04	297.7	0.628			
198.	12.83	34.26	2.63	25.87	218.7	200.	12.70	34.26	25.90	215.9	0.758			
223.	11.80	34.41	1.61	26.19	189.1	250.	11.30	34.56	26.40	170.0	0.855			
247.	11.40	34.56	0.70	26.38	171.5	300.	10.44	34.60	26.59	152.7	0.936			
272.	10.63	34.52	0.82	26.49	161.4	400.	8.99	34.56	26.80	134.0	1.081			
297.	10.48	34.60	0.59	26.58	153.5	500.	8.08	34.55	26.93	122.6	1.210			
396.	9.03	34.56	0.40	26.79	134.5	600.	6.86	34.48	27.05	111.3	1.328			
495.	8.14	34.55	0.47	26.92	123.2	700.	6.05	34.47	27.15	102.0	1.436			
595.	6.91	34.48	0.60	27.04	111.8	800.	5.48	34.49	27.24	94.3	1.535			
793.	5.52	34.49	0.49	27.23	94.7	1000.	4.61	34.51	27.35	83.6	1.715			
993.	4.64	34.51	0.82	27.35	84.0	1200.	3.82	34.54	27.46	73.1	1.874			
1192.	3.79	34.55	1.44	27.47	72.3									
1494.	3.08	34.59	1.50	27.57	62.9									
CROMWELL		13, STATION		31, 17-30N LAT, 148- 2W LONG, FEB. 22, 1965, 1400 G.C.T.					VIS. 6		CLOUD TYPE , COVER 9			
DRY BULB	20.3	WET BULB	19.3	WIND SPEED	14, DIR. 33	BAR. 14	WEATHER 51							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.45	34.26	5.33	23.26	462.2	0.	23.45	34.26	23.26	462.2	0.000			
10.	23.49	34.26	4.91	23.25	463.7	10.	23.49	34.26	23.25	463.7	0.047			
30. <sup>A</sup>	23.52	34.26		23.24	465.3	20.	23.51	34.26	23.25	464.7	0.093			
50.	23.48	34.26	5.53	23.26	464.9	30.	23.52	34.26	23.24	465.3	0.140			
75.	23.28	34.73	5.27	23.67	426.4	50.	23.48	34.26	23.26	464.9	0.234			
99.	21.36	34.88	5.27	24.32	364.7	75.	23.28	34.73	23.67	426.4	0.346			
123.	20.43	34.99	5.04	24.66	333.5	100.	21.30	34.89	24.34	362.9	0.446			
149.	20.18	35.02	4.91	24.75	325.9	150.	20.18	35.02	24.75	325.8	0.619			
172.	19.91	35.01	4.79	24.81	320.6	200.	18.46	34.87	25.07	296.4	0.776			
197.	18.71	34.90	4.56	25.04	299.8	250.	13.00	34.27	25.85	222.5	0.907			
221.	16.35	34.60	4.26	25.38	267.5	300.	10.12	34.12	26.27	182.7	1.009			
245.	13.36	34.30	4.37	25.80	227.3	400.	8.55	34.31	26.67	145.4	1.174			
270.	11.86	34.20	4.40	26.01	206.8	500.	7.16	34.37	26.92	122.1	1.309			
294.	10.33	34.12	4.32	26.23	186.2	600.	6.13	34.36	27.06	109.7	1.426			
391.	8.69	34.30	1.81	26.64	148.2	700.	5.53	34.41	27.17	99.6	1.532			
492.	7.26	34.37	0.86	26.91	123.3	800.	5.11	34.46	27.26	91.3	1.629			
589.	6.21	34.36	0.70	27.04	110.9	1000.	4.29	34.51	27.39	79.4	1.802			
786.	5.18	34.46	0.82	27.25	92.4	1200.	3.66	34.55	27.48	71.0	1.954			
984.	4.34	34.51	0.99	27.38	80.2									
1182.	3.74	34.54	1.14	27.47	72.3									
1482.	3.00	34.58	1.58	27.57	62.6									
CROMWELL		13, STATION		32, 19- ON LAT, 148- 2W LONG, FEB. 22, 1965, 2300 G.C.T.					VIS. 8		CLOUD TYPE 8, COVER 3			
DRY BULB	21.8	WET BULB	18.2	WIND SPEED	08, DIR. 36	BAR. 15	WEATHER 02							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.90	34.45	5.09	23.57	433.3	0.	22.90	34.45	23.57	433.3	0.000			
10.	22.82	34.45	5.14	23.59	431.5	10.	22.82	34.45	23.59	431.5	0.044			
30. <sup>A</sup>	22.75	34.45		23.61	430.4	20.	22.77	34.45	23.60	430.6	0.087			
52.	22.76	34.45	5.08	23.61	431.4	30.	22.75	34.45	23.61	430.4	0.130			
75. <sup>A</sup>	23.08	34.76		23.75	418.7	50.	22.75	34.44	23.60	431.6	0.217			
77.	23.09	34.79	5.05	23.77	416.9	75.	23.08	34.76	23.75	418.7	0.324			
103.	22.05	34.98	5.08	24.21	375.9	100.	22.22	34.97	24.15	381.1	0.425			
128.	21.11	35.04	4.98	24.51	347.7	150.	20.44	35.10	24.74	327.1	0.603			
153.	20.34	35.10	4.70	24.77	324.4	200.	17.61	34.76	25.20	283.7	0.757			
178.	19.16	35.04	4.70	25.03	300.0	250.	12.70	34.23	25.88	219.6	0.884			
204.	17.26	34.70	4.28	25.24	280.3	300.	10.19	34.16	26.28	181.2	0.985			
229.	14.52	34.36	3.74	25.60	245.9	400.	8.60	34.31	26.66	146.3	1.151			
254.	12.42	34.22	3.55	25.92	215.3	500.	7.03	34.30	26.88	125.7	1.288			
279.	11.47	34.22	2.75	26.10	198.4	600.	6.26	34.38	27.05	110.4	1.407			
305.	9.88	34.14	3.16	26.32	177.4	700.	5.70	34.44	27.17	99.8	1.513			
407.	8.83	34.33	1.16	26.67	145.3	800.	5.20	34.47	27.25	92.2	1.610			
509.	6.89	34.29	0.93	26.90	124.3	1000.	4.42	34.51	27.37	81.5	1.786			
611.	6.21	34.39	0.62	27.07	109.0	1200.	3.71	34.54	27.47	72.3	1.942			
813.	5.14	34.47	0.58	27.26	91.4	1500.	3.03	34.58	27.57	63.2	2.148			
1017.	4.36	34.51	0.96	27.38	80.7									
1218.	3.65	34.54	1.10	27.48	71.5									
1522.	2.99	34.58	1.44	27.57	62.7									

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		13, STATION	33, 20-32N LAT, 148- IW LNG, FEB. 23, 1965, 0900 G.C.T.												
DRY BULB	20.8	WET BULB	16.8	WIND SPEED	11	DIR.	31	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.	22.89	34.32	4.91		23.47	442.4	0.	22.89	34.32	23.47	442.4	0.000			
10.	22.95	34.32	5.10		23.45	444.4	10.	22.95	34.32	23.45	444.4	0.045			
30. <sup>A</sup>	22.68	34.38			23.58	433.5	20.	22.84	34.32	23.48	441.9	0.089			
40.	22.50	34.77	5.10		23.92	401.1	30.	22.68	34.38	23.58	433.5	0.133			
72.	22.51	35.19	5.02		24.24	372.0	50.	22.50	34.81	23.96	398.1	0.217			
95.	22.37	35.30	4.97		24.36	361.1	75.	22.55	35.22	24.25	370.8	0.314			
119.	20.24	35.01	4.83		24.73	327.1	100.	21.97	35.25	24.43	354.3	0.405			
143.	19.05	34.91	4.62		24.96	305.5	150.	18.81	34.89	25.00	301.8	0.571			
166.	18.19	34.81	4.49		25.10	292.8	200.	15.92	34.51	25.41	263.8	0.713			
189.	16.57	34.59	4.29		25.32	272.2	250.	12.08	34.12	25.91	216.0	0.834			
213.	15.08	34.42	4.10		25.53	252.8	300.	10.36	34.22	26.30	179.4	0.934			
236.	12.90	34.19	4.39		25.80	226.2	400.	8.16	34.25	26.68	143.8	1.097			
260.	11.65	34.11	4.01		25.98	209.3	500.	6.84	34.28	26.90	123.9	1.232			
283.	10.84	34.19	3.32		26.19	189.6	600.	6.48	34.42	27.05	110.6	1.350			
377.	8.67	34.26	2.02		26.61	150.6	700.	5.62	34.43	27.17	99.1	1.456			
471.	6.36	34.24	1.31		26.85	128.4	800.	5.05	34.44	27.24	92.7	1.553			
566.	6.77	34.40	0.62		27.00	115.3	1000.	4.64	34.50	27.34	84.7	1.733			
755.	5.13	34.42	0.82		27.22	94.4	1200.	3.91	34.54	27.45	74.5	1.894			
944.	4.92	34.49	0.96		27.30	88.6									
1134.	3.89	34.52	1.39		27.44	75.2									
1420.	3.14	34.57	1.39		27.55	64.6									

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11  
 TEMPERATURE ERROR TERM AT 1200. METERS IS 0.18

CROMWELL		13, STATION	34, 22- ON LAT, 147-55W LONG, FEB. 23, 1965, 1800 G.C.T.												
DRY BULB	19.8	WET BULB	17.0	WIND SPEED	14	DIR.	36	BAR.	11	WEATHER	03	VIS.	8	CLOUD TYPE	8, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	22.18	34.78	5.11		24.02	390.0	0.	22.18	34.78	24.02	390.0	0.000			
11.	22.18	34.79	5.20		24.03	389.7	10.	22.23	34.79	24.03	389.8	0.039			
30. <sup>A</sup>	22.32	34.96			24.12	381.9	20.	22.32	34.96	24.12	381.9	0.117			
50.	22.50	35.14	5.05		24.20	374.5	30.	22.14	35.26	24.39	357.3	0.285			
76.	22.12	35.26	5.05		24.40	356.6	50.	22.50	35.14	24.20	374.5	0.193			
100.	21.85	35.34	5.03		24.54	344.5	75.	21.14	35.26	24.54	344.5	0.374			
126.	20.52	35.18	4.92		24.78	322.2	100.	21.85	35.34	24.54	344.5	0.374			
151.	19.58	35.11	4.76		24.97	304.4	150.	19.62	35.11	24.97	305.1	0.538			
175.	18.37	34.92	4.54		25.14	289.5	200.	17.34	34.80	25.30	274.8	0.684			
200.	17.34	34.80	4.73		25.30	274.8	250.	14.11	34.37	25.70	237.4	0.813			
226.	15.92	34.59	4.67		25.47	258.9	300.	11.36	34.17	26.08	200.6	0.923			
250.	14.11	34.37	4.93		25.70	237.4	400.	8.47	34.06	26.49	162.6	1.106			
275.	12.30	34.23	4.93		25.95	212.8	500.	6.14	34.06	26.81	131.0	1.255			
300.	11.36	34.17	4.96		26.08	200.6	600.	5.18	34.20	27.04	109.6	1.376			
400.	8.47	34.06	4.13		26.49	162.6	700.	4.75	34.33	27.19	95.8	1.480			
501.	6.12	34.06	1.97		26.82	130.7	800.	4.55	34.43	27.30	86.9	1.572			
601.	5.12	34.20	0.76		27.04	109.4	1000.	4.00	34.50	27.41	76.9	1.738			
800.	4.55	34.43	0.88		27.30	86.9	1200.	3.47	34.54	27.50	68.9	1.886			
1000.	4.00	34.50	1.04		27.41	76.9									
1199.	3.46	34.54	1.17		27.50	69.1									
1498.	2.81	34.58	1.56		27.59	60.4									

CROMWELL		13, STATION	35, 23-28N LAT, 148- 2W LNG, FEB. 24, 1965, 0200 G.C.T.												
DRY BULB	21.5	WET BULB	18.5	WIND SPEED	08	DIR.	36	BAR.	15	WEATHER	02	VIS.	9	CLOUD TYPE	8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	21.55	34.44	5.23		23.94	397.9	0.	21.55	34.44	23.94	392.9	0.040			
10.	21.43	34.47	5.21		23.99	392.9	10.	21.43	34.47	23.99	392.9	0.040			
50.	21.53	35.12	5.15		24.46	350.0	20.	21.62	34.62	24.11	382.4	0.079			
76.	21.46	35.26	5.16		24.58	339.0	30.	21.44	34.77	24.22	371.8	0.117			
101.	21.07	35.27	5.16		24.70	329.0	50.	21.53	35.12	24.46	350.0	0.190			
126.	20.14	35.19	4.95		24.89	311.8	75.	21.47	35.26	24.58	339.3	0.276			
151.	19.01	35.06	4.92		25.08	294.0	100.	21.09	35.27	24.69	329.5	0.361			
175.	18.10	34.91	4.97		25.20	283.8	150.	19.06	35.07	25.08	294.6	0.518			
201.	16.52	34.68	4.86		25.40	264.9	200.	16.59	34.69	25.39	265.7	0.659			
225.	14.79	34.46	4.96		25.62	244.1	250.	13.45	34.34	25.81	226.3	0.783			
250.	13.45	34.34	4.94		25.81	226.3	300.	11.23	34.19	26.12	196.8	0.890			
276.	11.87	34.21	4.93		26.02	206.4	400.	8.56	34.05	26.46	164.8	1.072			
300.	11.23	34.19	5.17		26.12	196.8	500.	6.32	34.04	26.78	134.8	1.223			
400.	8.56	34.05	4.99		26.46	164.8	600.	5.33	34.12	26.96	117.4	1.351			
501.	6.30	34.04	2.32		26.78	134.6	700.	4.76	34.27	27.14	100.5	1.461			
601.	5.32	34.12	1.13		26.96	117.2	800.	4.42	34.41	27.29	86.9	1.556			
801.	4.42	34.41	0.79		27.29	86.8	1000.	4.00	34.50	27.41	76.8	1.721			
992.	4.02	34.50	1.13		27.41	77.1	1200.	3.55	34.54	27.49	69.7	1.870			
1187.	3.56	34.53	1.21		27.48	70.9									
1482.	2.90	34.57	1.61		27.57	62.1									

SALINITY ERROR TERM AT 30. METERS IS 0.06

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 36, 25- 2N LAT, 148- 1W LONG, FEB. 24, 1965, 1300 G.C.T. DRY BULB 21.8 WET BULB 18.8 WIND SPEED 12, DIR. 02 BAR. 11 WEATHER 02													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	21.76	34.87	5.30		24.21	372.3	0.	21.76	34.87	24.21	372.3	0.000	
10.	21.75	34.87	4.76		24.21	372.4	10.	21.75	34.87	24.21	372.4	0.038	
30. <sup>A</sup>	21.44	35.08			24.45	349.8	20.	21.61	34.96	24.32	362.4	0.075	
51.	21.35	35.24	5.10		24.60	336.7	30.	21.44	35.08	24.45	349.8	0.110	
76.	21.27	35.29	5.02		24.66	331.9	50.	21.35	35.23	24.60	337.1	0.180	
101.	20.24	35.21	4.89		24.88	312.0	75.	21.28	35.29	24.66	332.1	0.264	
126.	19.46	35.13	4.87		25.02	299.1	100.	20.29	35.21	24.87	312.9	0.345	
153.	18.59	34.99	4.77		25.14	288.9	150.	18.69	35.01	25.12	290.0	0.497	
177.	17.60	34.83	4.77		25.26	277.9	200.	16.23	34.64	25.44	260.9	0.634	
204.	15.96	34.61	4.97		25.48	257.6	250.	13.09	34.28	25.84	223.3	0.758	
229.	14.30	34.41	4.92		25.69	237.7	300.	11.25	34.15	26.08	200.4	0.865	
253.	12.93	34.27	4.69		25.86	221.3	400.	9.03	34.07	26.41	170.6	1.052	
277.	11.86	34.20	5.05		26.01	206.9	500.	6.74	34.02	26.70	142.0	1.210	
303.	11.19	34.14	5.03		26.09	199.8	600.	5.37	34.09	26.93	119.9	1.342	
405.	8.92	34.07	5.22		26.42	169.0	700.	4.62	34.22	27.12	102.6	1.454	
507.	6.60	34.02	2.69		26.72	140.2	800.	4.20	34.34	27.24	89.4	1.551	
607.	5.30	34.10	1.25		26.95	118.5	1000.	3.77	34.48	27.41	76.0	1.719	
809.	4.18	34.35	0.60		27.21	88.4	1200.	3.36	34.53	27.50	68.8	1.865	
1011.	3.76	34.48	1.07		27.42	75.6	1500.	2.78	34.58	27.59	60.0	2.061	
1212.	3.34	34.53	1.27		27.50	68.5							
1515.	2.75	34.58	1.62		27.59	59.8							
CROMWELL 13, STATION 37, 26-27N LAT, 148- 2W LONG, FEB. 24, 1965, 2100 G.C.T. DRY BULB 21.0 WET BULB 18.2 WIND SPEED 07, DIR. 23 BAR. 10 WEATHER 02													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	21.39	35.25*	5.31		24.60	335.1	0.	21.39	35.25	24.60	335.1	0.000	
10.	21.19	35.25	5.35		24.65	330.2	10.	21.19	35.25	24.65	330.2	0.034	
30. <sup>A</sup>	21.13	35.25			24.67	329.4	20.	21.13	35.25	24.67	328.9	0.067	
51.	21.17	35.25	5.26		24.66	331.2	30.	21.13	35.25	24.67	329.4	0.100	
77.	21.16	35.24	5.30		24.65	332.6	50.	21.17	35.25	24.66	331.1	0.166	
102.	21.17	35.25	5.33		24.66	333.1	75.	21.16	35.24	24.65	332.6	0.250	
127.	20.38	35.22	4.99		24.85	315.8	100.	21.18	35.25	24.65	333.4	0.334	
152.	18.76	35.01	5.00		25.11	291.6	150.	18.89	35.03	25.09	293.3	0.492	
178.	17.78	34.86	4.86		25.24	279.9	200.	16.47	34.68	25.41	264.0	0.632	
203.	16.28	34.65	4.86		25.43	261.8	250.	13.47	34.34	25.81	226.7	0.756	
229.	14.97	34.49	4.89		25.60	245.8	300.	11.59	34.24	26.10	199.2	0.863	
253.	13.26	34.32	4.96		25.83	224.1	400.	9.53	34.11	26.35	176.0	1.053	
280.	12.26	34.27	5.21		25.99	209.3	500.	7.13	34.02	26.65	147.3	1.216	
304.	11.46	34.24	5.16		26.12	197.4	600.	5.57	34.05	26.88	125.3	1.353	
405.	9.45	34.10	4.99		26.36	175.3	700.	4.78	34.16	27.06	108.5	1.472	
507.	6.97	34.02	3.14		26.67	145.3	800.	4.37	34.29	27.20	95.3	1.575	
608.	5.48	34.06	1.63		26.90	123.8	1000.	3.83	34.44	27.38	79.0	1.751	
810.	4.35	34.30	0.47		27.21	94.2	1200.	3.37	34.31	27.48	70.4	1.902	
1013.	3.80*	34.45	1.01		27.39	78.3	1500.	2.80	34.57	27.58	61.0	2.102	
1214.	3.34	34.51	1.25		27.48	70.0							
1518.	2.77	34.57	1.59		27.58	60.8							
CROMWELL 13, STATION 38, 25- 2N LAT, 151- 6W LONG, FEB. 25, 1965, 1500 G.C.T. DRY BULB 18.4 WET BULB 16.2 WIND SPEED 26, DIR. 30 BAR. 07 WEATHER 02													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	21.38	35.18			24.55	339.9	0.	21.38	35.18	24.55	339.9	0.000	
9.	21.42	35.18			24.54	341.3	10.	21.42	35.18	24.54	341.2	0.034	
30. <sup>A</sup>	21.41	35.23			24.58	338.2	20.	21.42	35.20	24.55	340.1	0.069	
49.	21.40	35.26			24.60	336.4	30.	21.41	35.23	24.58	338.2	0.103	
73.	21.36	35.27			24.62	335.6	50.	21.40	35.26	24.60	336.4	0.171	
97.	21.10	35.24			24.67	331.8	75.	21.35	35.27	24.62	335.6	0.255	
120.	20.38	35.21			24.84	316.3	100.	21.04	35.24	24.69	330.3	0.339	
145.	18.96	35.04			25.08	294.0	150.	18.67	35.00	25.12	290.2	0.496	
169.	17.59	34.83			25.26	277.4	200.	16.00	34.59	25.45	250.6	0.634	
194.	16.35	34.64			25.41	263.8	250.	13.34	34.28	25.79	228.3	0.757	
217.	15.02	34.47			25.58	248.0	300.	11.05	34.12	26.10	198.6	0.865	
241.	13.94	34.34			25.71	235.9	400.	8.28	34.04	26.50	160.9	1.046	
265.	12.36	34.20			25.92	215.9	500.	6.43	34.05	26.77	135.6	1.196	
289.	11.43	34.14			26.05	203.8	600.	5.31	34.13	26.97	116.1	1.323	
385.	8.63	34.05			26.45	165.6	700.	4.63	34.25	27.14	100.3	1.432	
481.	6.71	34.04			26.72	139.8	800.	4.27	34.36	27.27	88.9	1.528	
578.	5.51	34.11			26.93	120.1	1000.	3.92	34.48	27.41	77.2	1.696	
771.	4.34	34.33			27.24	91.4	1200.	3.46	34.55	27.50	68.6	1.844	
963.	4.02	34.47			27.38	79.0							
1160.	3.49	34.52			27.48	70.6							
1451.	2.87	34.57			27.58	61.6							

FROM BT DATA  
\*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA						
CROMWELL		13, STATION	39, 24-58N LAT, 154-2W LONG, FEB. 26, 1965, 0800 G.C.T.											
DRY BULB	18.8	WET BULB	14.3	WIND SPEED	22	DIR.	02	BAR.	18	WEATHER	02	VIS.	CLOUD TYPE	8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.48	35.20	5.53		24.53	341.1	0.	21.48	35.20	24.53	341.1	0.000		
11.	21.51	35.19	5.22		24.52	343.0	10.	21.51	35.19	24.52	342.8	0.034		
50.	21.50	35.18	5.10		24.51	344.9	20.	21.52	35.18	24.51	343.8	0.069		
74.	21.50	35.19	5.11		24.52	345.1	30.	21.52	35.18	24.51	344.5	0.104		
98.	21.48	35.20	5.09		24.53	344.7	50.	21.50	35.18	24.51	344.9	0.173		
122.	21.11	35.25	4.97		24.67	332.3	75.	21.50	35.19	24.52	345.2	0.260		
147.	20.06	35.17	4.85		24.89	312.0	100.	21.47	35.21	24.54	344.0	0.347		
172.	19.56	35.12	4.79		24.99	303.9	150.	19.99	35.16	24.91	310.7	0.512		
197.	18.87	35.03	4.74		25.10	294.3	200.	18.80	35.02	25.11	293.3	0.664		
221.	18.16	34.94	4.74		25.21	284.5	250.	16.42	34.66	25.41	265.7	0.805		
245.	16.79	34.71	4.71		25.36	270.2	300.	13.18	34.33	25.86	222.9	0.928		
269.	14.98	34.48	4.72		25.59	247.9	400.	9.57	34.09	26.34	177.6	1.130		
293.	13.53	34.36	4.82		25.81	227.6	500.	7.25	34.02	26.64	149.1	1.295		
390.	9.86	34.11	4.67		26.30	181.0	600.	5.80	34.09	26.89	125.2	1.434		
489.	7.46	34.02	3.44		26.60	152.0	700.	4.99	34.21	27.07	107.4	1.551		
587.	5.93	34.08	1.70		26.86	127.8	800.	4.58	34.33	27.21	94.9	1.653		
781.	4.64	34.31	0.63		27.19	96.6	1000.	4.07	34.45	27.36	81.3	1.832		
977.	4.14	34.44	1.00		27.35	82.8	1200.	3.54	34.53	27.48	70.6	1.986		
1171.	3.57	34.52	1.24		27.47	71.6								
1466.	2.91	34.57	1.54		27.57	62.1								

CROMWELL		13, STATION	40, 24-58N LAT, 156-58W LONG, FEB. 26, 1965, 2300 G.C.T.											
DRY BULB	20.9	WET BULB	15.9	WIND SPEED	16	DIR.	05	BAR.	22	WEATHER	03	VIS.	CLOUD TYPE	8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.73	35.20			24.46	347.7	0.	21.73	35.20	24.46	347.7	0.000		
10.	21.74	35.21			24.47	347.6	10.	21.74	35.21	24.47	347.6	0.035		
50.	21.68	35.20			24.48	348.2	20.	21.73	35.21	24.47	347.5	0.070		
73.	21.71	35.20			24.47	349.9	30.	21.71	35.21	24.48	347.6	0.105		
98.	21.69	35.20			24.48	350.3	50.	21.68	35.20	24.48	348.2	0.175		
122.	21.37	35.23			24.59	340.5	75.	21.72	35.20	24.47	350.1	0.263		
147.	21.10	35.21			24.65	335.8	100.	21.67	35.20	24.48	349.5	0.351		
171.	19.57	35.03			24.92	310.7	150.	20.95	35.19	24.67	333.2	0.523		
196.	17.73	34.81			25.21	283.0	200.	17.51	34.78	25.25	279.8	0.678		
220.	16.41	34.66			25.41	264.5	250.	14.26	34.44	25.72	235.5	0.808		
245.	14.61	34.47			25.67	240.2	300.	12.10	34.24	26.00	209.2	0.920		
269.	13.10	34.33			25.87	220.7	400.	9.63	34.11	26.34	177.5	1.115		
294.	12.27	34.25			25.97	211.3	500.	7.41	34.04	26.62	150.3	1.280		
390.	9.87	34.12			26.31	180.4	600.	5.72	34.05	26.86	127.4	1.421		
489.	7.64	34.04			26.59	153.2	700.	4.92	34.15	27.03	110.9	1.541		
587.	5.86	34.04			26.83	129.9	800.	4.35	34.28	27.18	98.0	1.647		
782.	4.62	34.26			27.15	100.1	1000.	3.95	34.45	27.38	79.8	1.826		
977.	4.02	34.44			27.36	81.4	1200.	3.36	34.52	27.49	69.5	1.978		
1171.	3.43	34.51			27.48	70.7	1500.	2.72	34.58	27.59	59.6	2.174		
1466.	2.78	34.57			27.58	60.6	2000.	2.04	34.63	27.69	50.1	2.453		
2031.	2.01	34.63			27.70	49.7	2500.	1.68	34.66	27.74	45.2	2.696		
2534.	1.66	34.66			27.75	45.0	3000.	1.53	34.67	27.76	44.1	2.923		
3037.	1.53	34.67			27.76	44.1								
3841.	1.46	34.69			27.79	43.8								

CROMWELL		13, STATION	41, 23-29N LAT, 156-58W LONG, FEB. 27, 1965, 0900 G.C.T.											
DRY BULB	21.3	WET BULB	16.0	WIND SPEED	17	DIR.	04	BAR.	17	WEATHER	02	VIS.	CLOUD TYPE	8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	21.67	35.19			24.47	346.8	0.	21.67	35.19	24.47	346.8	0.000		
10.	21.65	35.19			24.48	346.6	10.	21.65	35.19	24.48	346.6	0.035		
49.	21.65	35.18			24.47	348.8	20.	21.64	35.19	24.48	347.0	0.070		
97.	21.65	35.20			24.49	349.2	50.	21.65	35.18	24.47	348.9	0.175		
120.	21.45	35.21			24.55	344.0	75.	21.68	35.19	24.47	349.9	0.263		
145.	19.95	35.08			24.85	315.6	100.	21.66	35.20	24.49	349.2	0.351		
170.	18.81	34.96			25.06	297.0	150.	19.73	35.06	24.90	311.8	0.518		
194.	17.29	34.78			25.29	274.9	200.	16.80	34.72	25.37	267.8	0.664		
218.	15.40	34.57			25.57	248.8	250.	13.91	34.41	25.77	230.2	0.789		
242.	14.34	34.45			25.71	236.0	300.	11.78	34.24	26.06	203.4	0.899		
266.	13.06	34.34			25.89	219.1	400.	8.83	34.08	26.45	166.7	1.085		
290.	12.12	34.26			26.01	207.6	500.	6.54	34.05	26.75	137.3	1.239		
387.	9.23	34.10			26.40	171.4	600.	5.83	34.20	26.96	118.1	1.368		
485.	6.71	34.03			26.72	140.6	700.	5.09	34.32	27.15	100.9	1.478		
581.	5.98	34.17			26.92	121.8	800.	4.49	34.41	27.28	87.9	1.574		
776.	4.60	34.39			27.26	90.2	1000.	3.84	34.50	27.43	74.9	1.738		
971.	3.92	34.49			27.41	76.4	1200.	3.35	34.56	27.52	66.4	1.882		
1167.	3.46	34.55			27.50	68.1								
1462.	2.88	34.58			27.58	61.0								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL DRY BULB 19.9		13, STATION 42, 21-59N LAT, 157- 1W LONG, FEB. 27, 1965, 1800 G.C.T. WET BULB 16.1 WIND SPEED 16, DIR. 08		BAR. 20 WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.52	35.00		24.09	383.3	0.	22.52	35.00	24.09	383.3	0.000
9.	22.55	35.00		24.08	384.4	10.	22.55	35.00	24.08	384.5	0.039
30. <sup>Δ</sup>	22.56	35.00		24.08	385.5	20.	22.56	35.00	24.08	385.2	0.077
50.	22.53	35.00		24.09	385.4	30.	22.56	35.00	24.08	385.5	0.116
74.	22.24	35.16		24.29	366.9	50.	22.53	35.00	24.09	385.4	0.194
98.	21.90	35.27		24.47	350.8	75.	22.23	35.17	24.30	366.2	0.289
123.	21.20	35.25		24.65	334.7	100.	21.87	35.27	24.48	349.7	0.379
149.	19.63	35.11		24.96	305.6	150.	19.58	35.10	24.97	304.8	0.544
173.	18.42	34.93		25.13	289.9	200.	17.28	34.77	25.29	275.3	0.690
198.	17.39	34.79		25.28	276.6	250.	14.11	34.40	25.72	235.4	0.819
222.	15.90	34.58		25.47	259.1	300.	11.71	34.20	26.05	204.4	0.930
248.	14.24	34.41		25.70	237.0	400.	8.46	34.11	26.53	158.9	1.113
272.	12.80	34.27		25.89	219.3	500.	6.67	34.11	26.79	134.2	1.261
297.	11.83	34.21		26.03	206.1	600.	5.53	34.23	27.02	112.0	1.385
397.	8.53	34.11		26.52	159.8	700.	5.01	34.33	27.17	98.5	1.491
496.	6.73	34.11		26.78	135.2	800.	4.75	34.42	27.27	89.8	1.587
595.	5.56	34.22		27.01	112.8	1000.	4.07	34.50	27.40	77.7	1.756
794.	4.77	34.42		27.26	90.2	1200.	3.53	34.54	27.49	69.8	1.905
994.	4.09	34.50		27.40	77.9						
1192.	3.56	34.53		27.48	71.0						
1493.	2.96	34.58		27.58	62.2						

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