

The Trade Wind Zone Oceanography Pilot Study
Part I: Townsend Cromwell Cruises 1, 2, and 3
February to April 1964

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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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 first set of three cruises, Townsend Cromwell cruises 1, 2, and 3, February to April 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,000 m. (cruise 1), and 1,200 m. (cruises 2 and 3) are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

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

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

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

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

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

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

Townsend Cromwell cruise 1:

February 14 to March 6, 1964

Gunter R. Seckel - HL - Field Party Chief
David W. K. Au - HL
Robert P. Brown - HL
William E. Hauser - HL
Henry M. Kishinami - HL
Lloyd T. Watarai - HL
John Hazelworth - U.S. Naval Oceanographic Office

Townsend Cromwell cruise 2:

March 16 to April 5, 1964

Robert P. Brown - HL - Field Party Chief

David W. K. Au - HL

Melvin E. Kau - HL

Rodney Kimura - HL

Lloyd T. Watarai - HL

Warren King - Smithsonian Institution

Robert Sundell - Smithsonian Institution

Townsend Cromwell cruise 3:

April 12 to May 4, 1964

Lloyd T. Watarai - HL - Field Party Chief

(4/12-4/18)

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

(4/19-5/4)

Howard Adrian - HL

Joseph R. Harada - HL

Henry M. Kishinami - HL

Douglas Edsall - National Oceanographic
Data Center

David Bratley - Smithsonian Institution

Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 19 and 21, 26 and 28, and 35 and 37, except for cruise 1, where one series was between stations 31 and 33 instead of stations 19 and 21.

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

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution on Cromwell cruises 2 and 3.

Meteorological

Rain measurements as well as standard weather observations were taken four times

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

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

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. Current-measuring techniques were tested with an Ekman current meter, suspended from the ship. The ship was drifting relative to a parachute drogue placed at a depth of 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. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

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

In the region of study, a sharp thermocline generally separates a surface mixed layer from

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

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

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2° C. The bucket salinity values, on the other hand, were consistently larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.03 ‰ and the root mean square value was within 0.07 ‰ 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 1, 2, and 3, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate,^{3/} respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns

^{3/}Oxygen and phosphate data are available only for cruises 6 to 17; the columns in the tables of the present report bear the oxygen and phosphate headings only to have a uniform format for this series of reports.

present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 8, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 1, figures 8 through 13 for cruise 2, and figures 14 through 19 for cruise 3.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 1, 2, and 3, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 1, 2, and 3, respectively.

The dynamic topography, relative to 1,000 m. for cruise 1 and 1,200 m. for cruises 2 and 3, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

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

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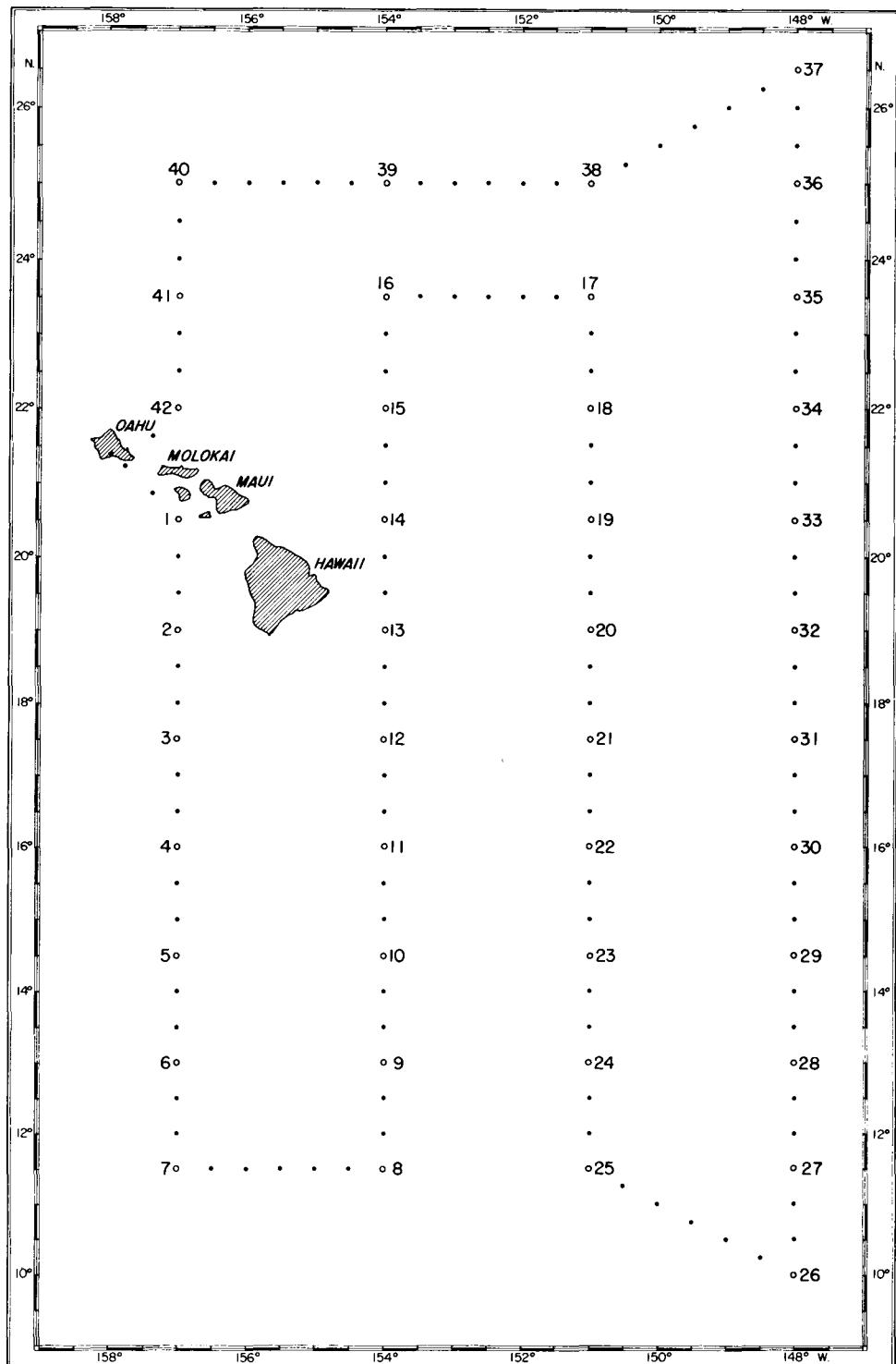


Figure 1.--Track chart for Townsend Cromwell cruises 1, 2, and 3. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

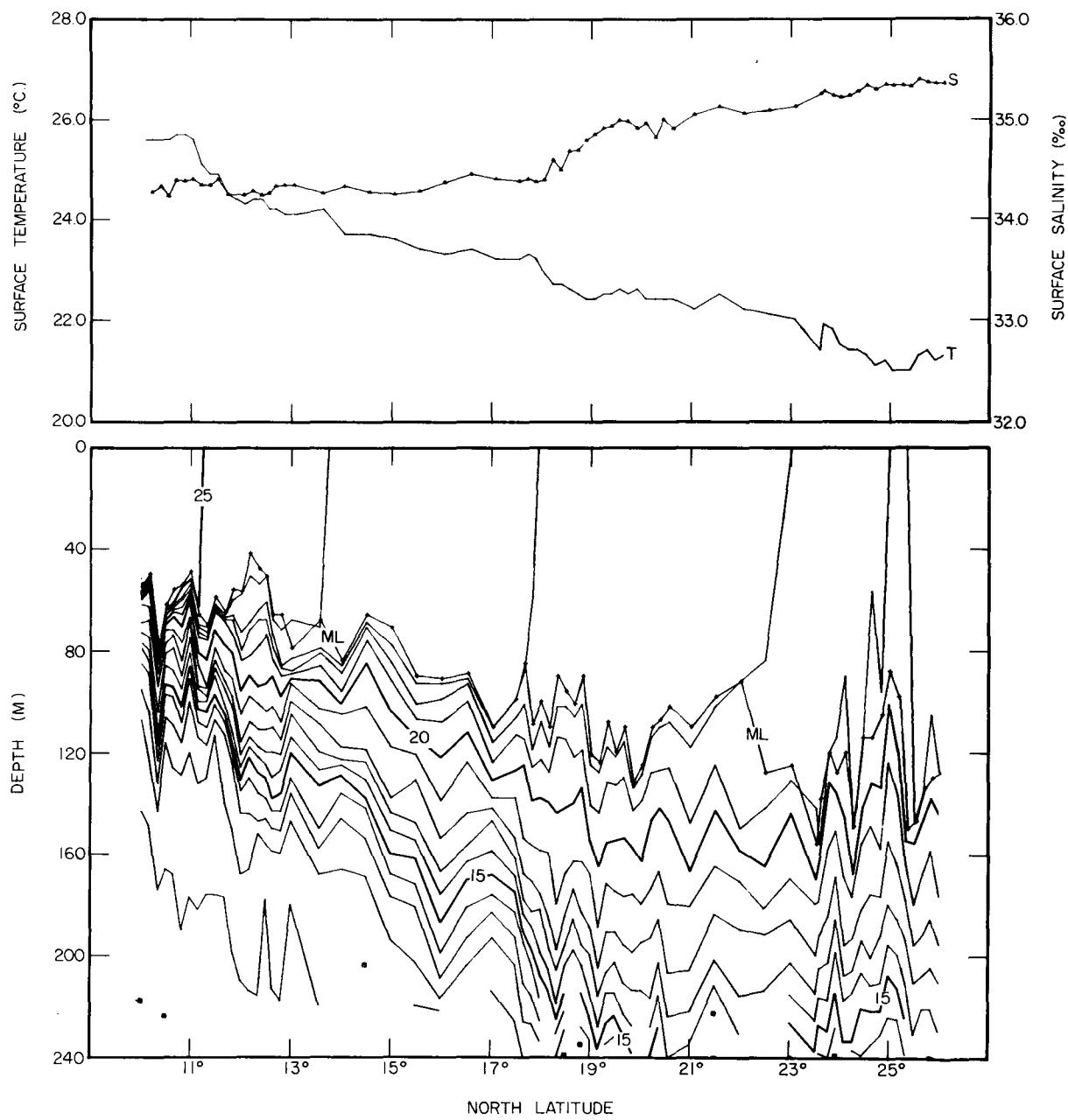


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

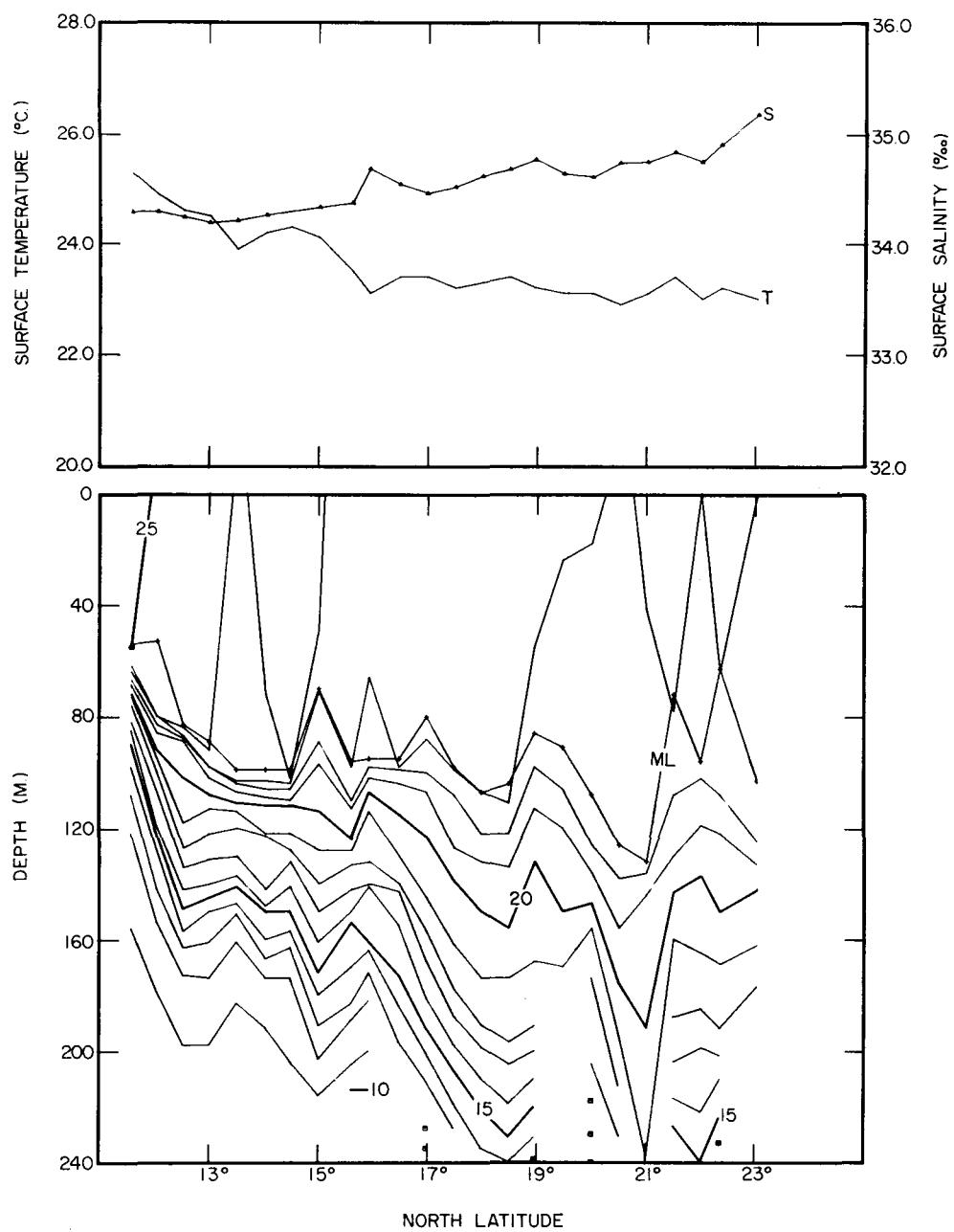


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section ($^{\circ}$ C.) for Townsend Cromwell cruise 1 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

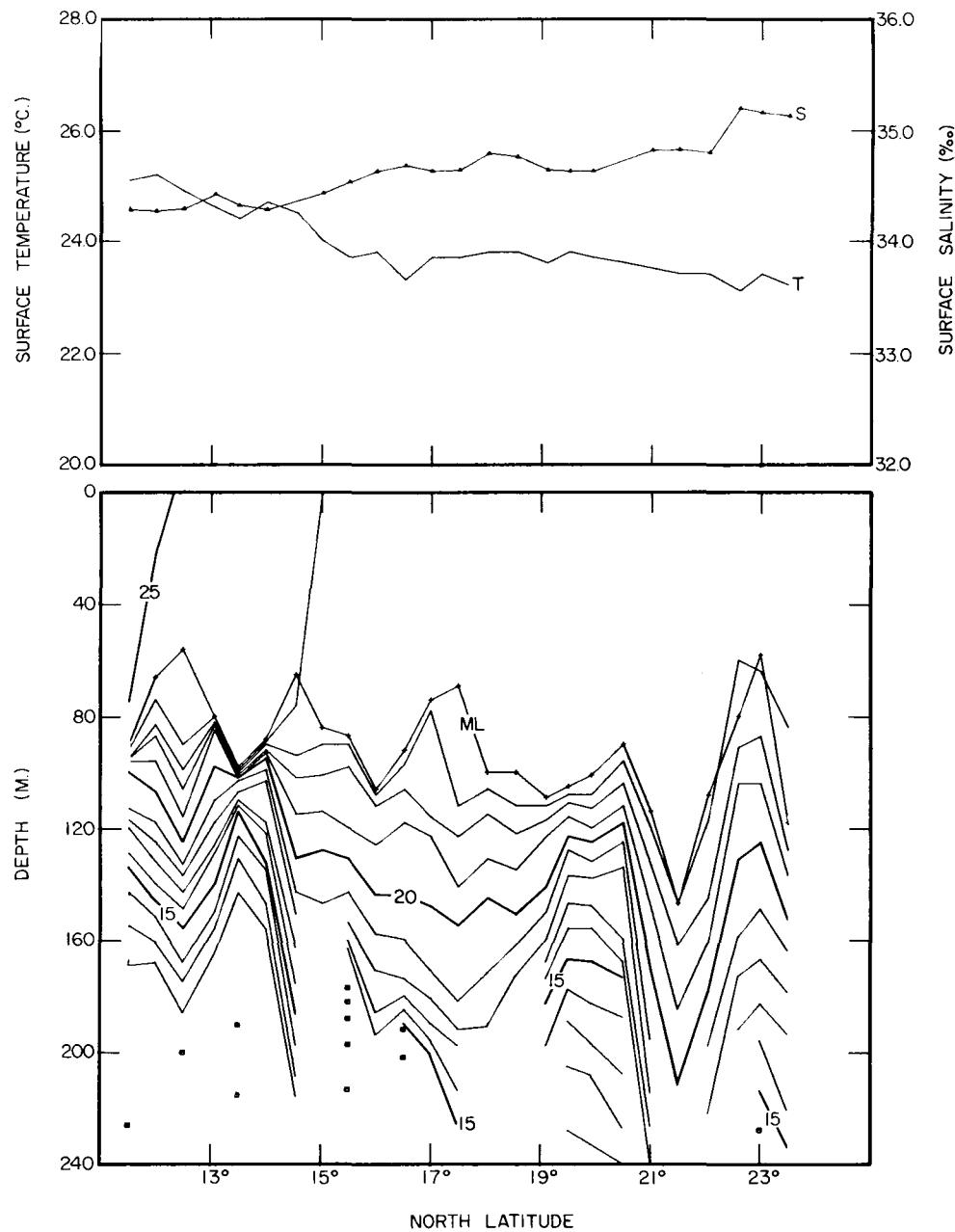


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/oo$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

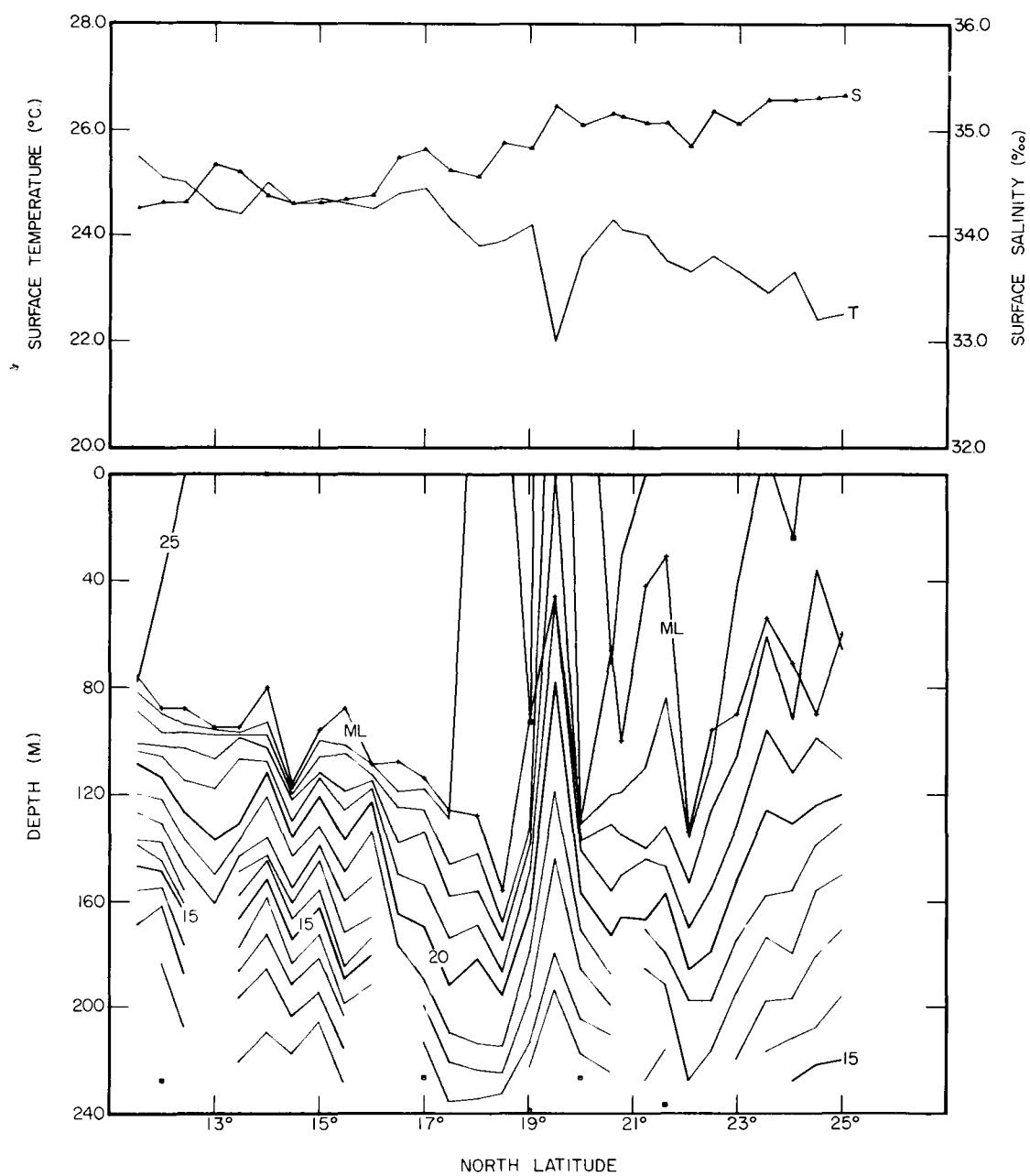


Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/\text{o}$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

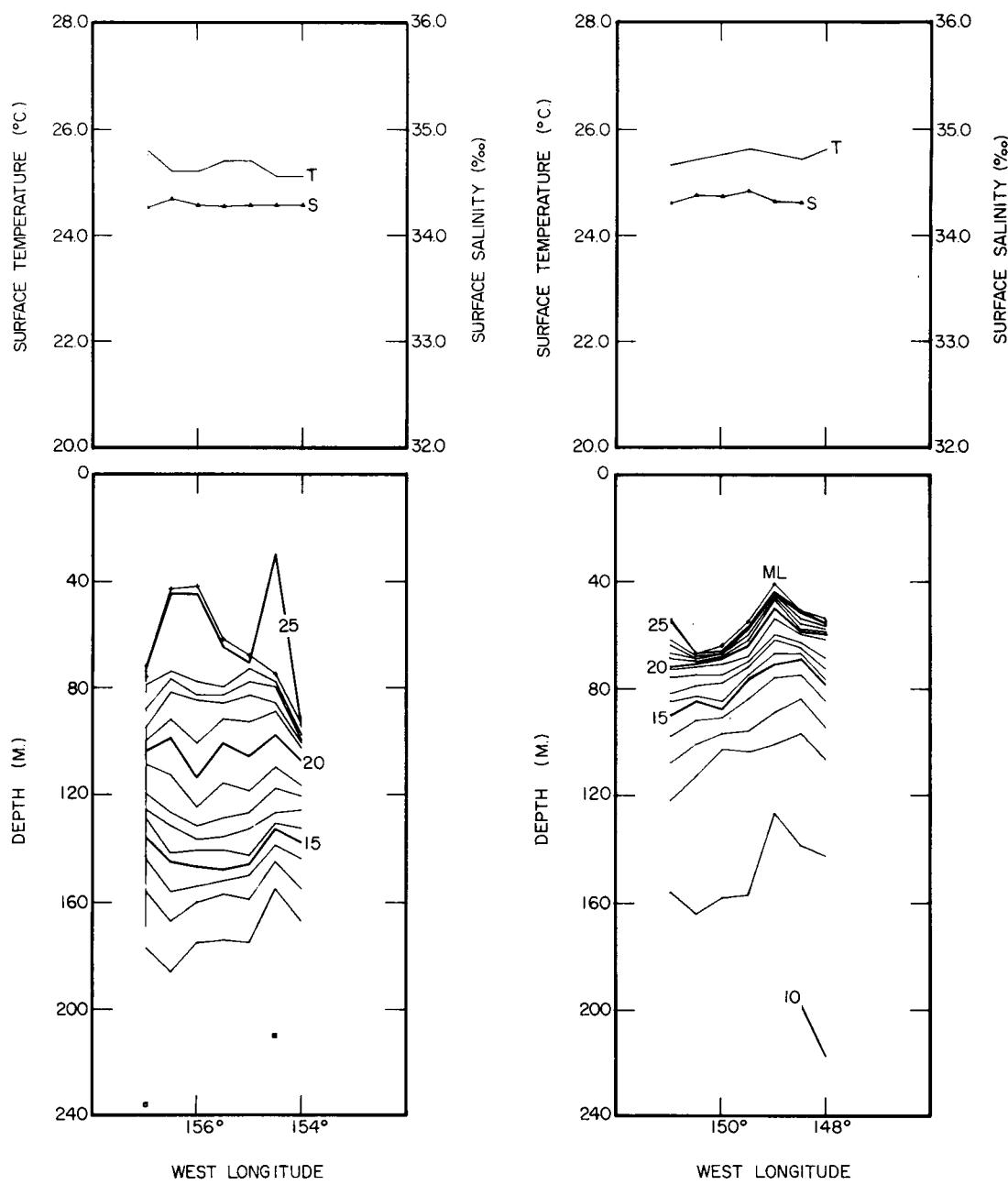


Figure 6.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{0}/\text{oo}$) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 1 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

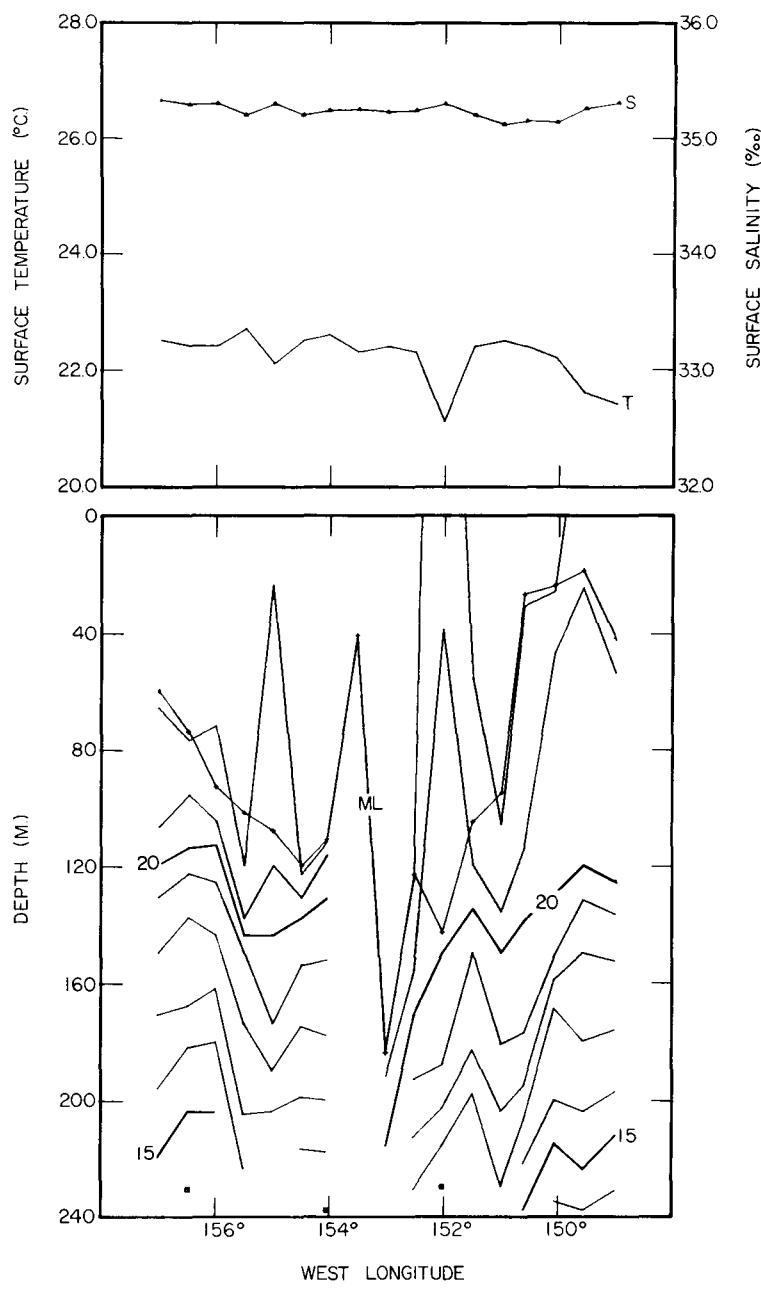


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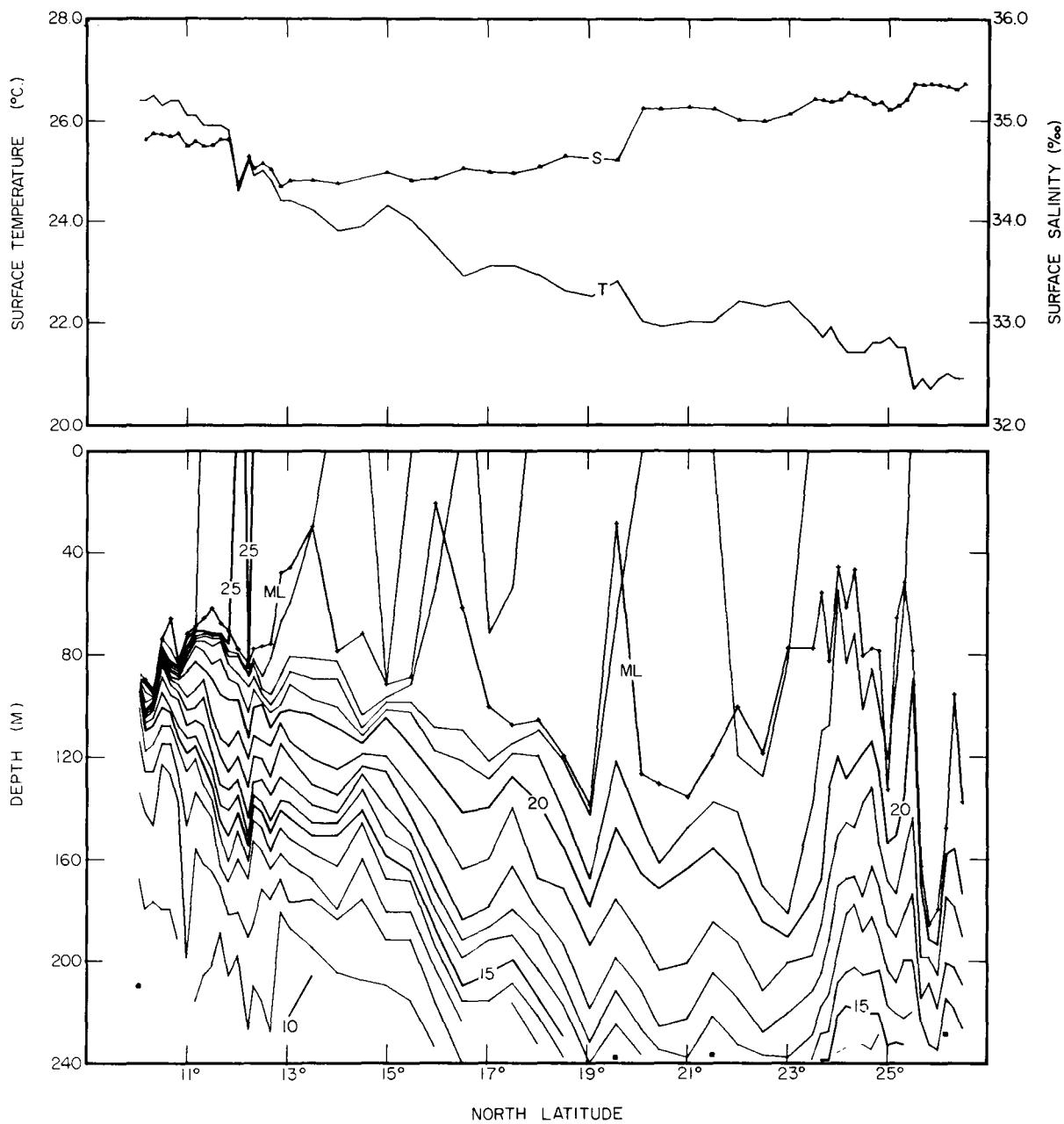


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/oo$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 2 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

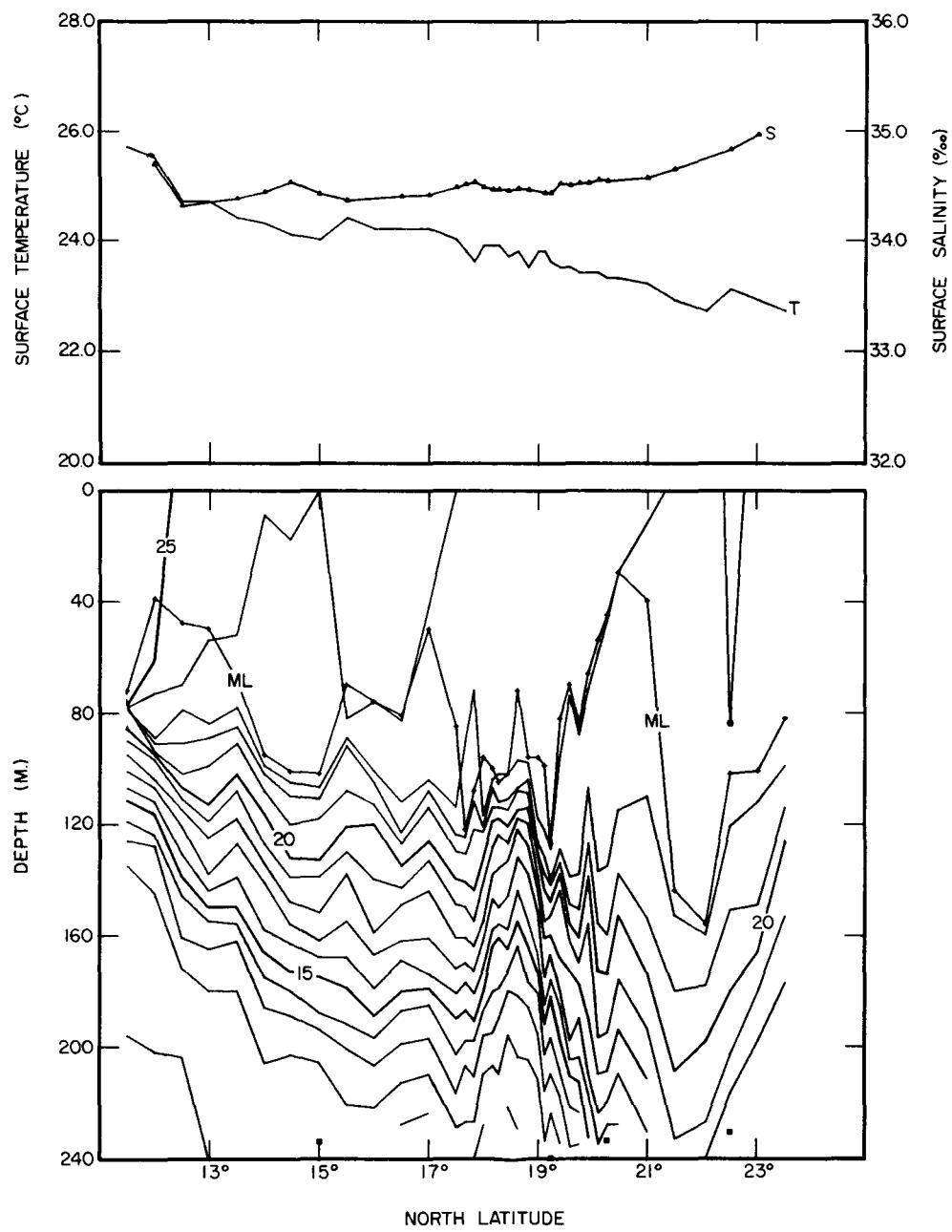


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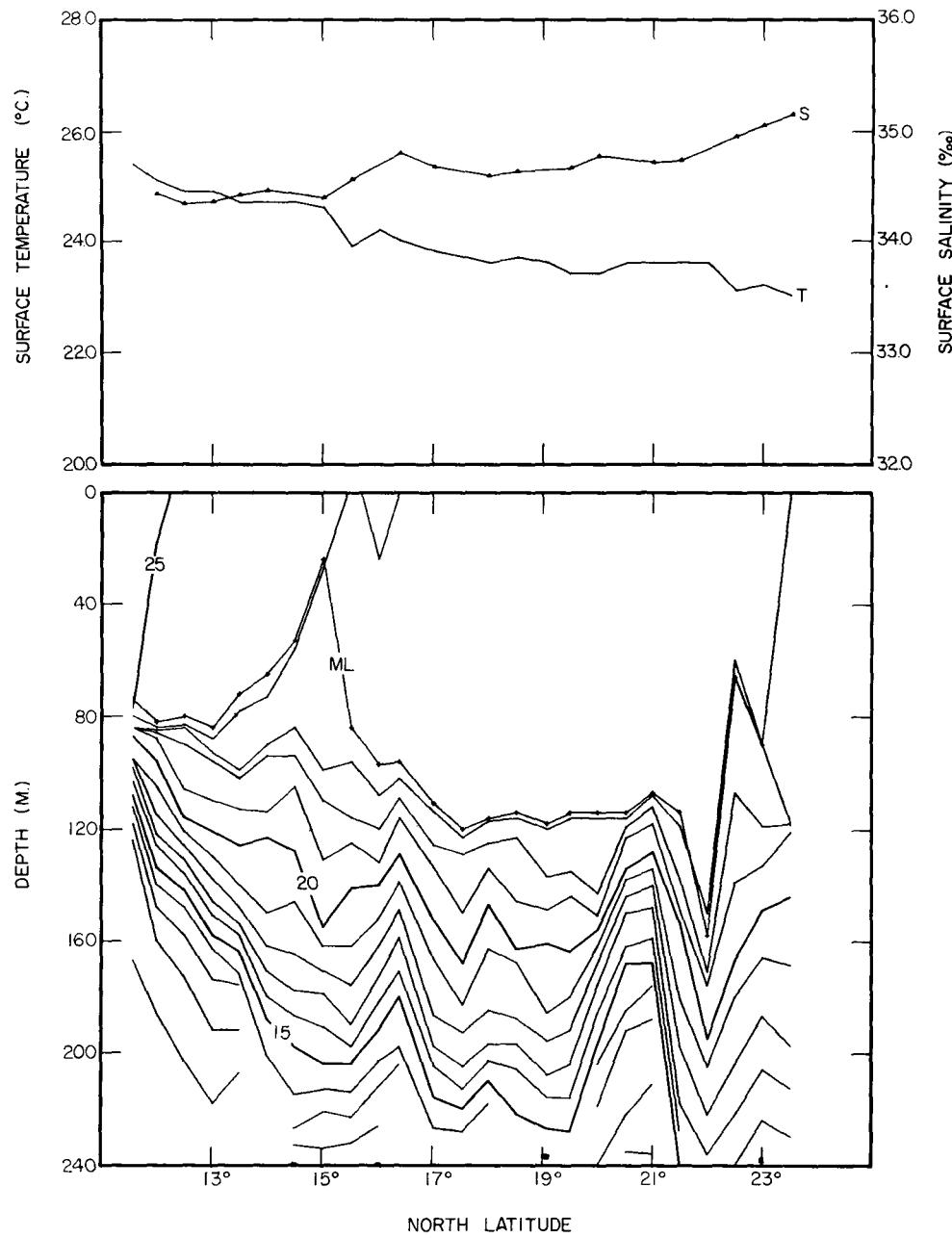


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}/oo$) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 2 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

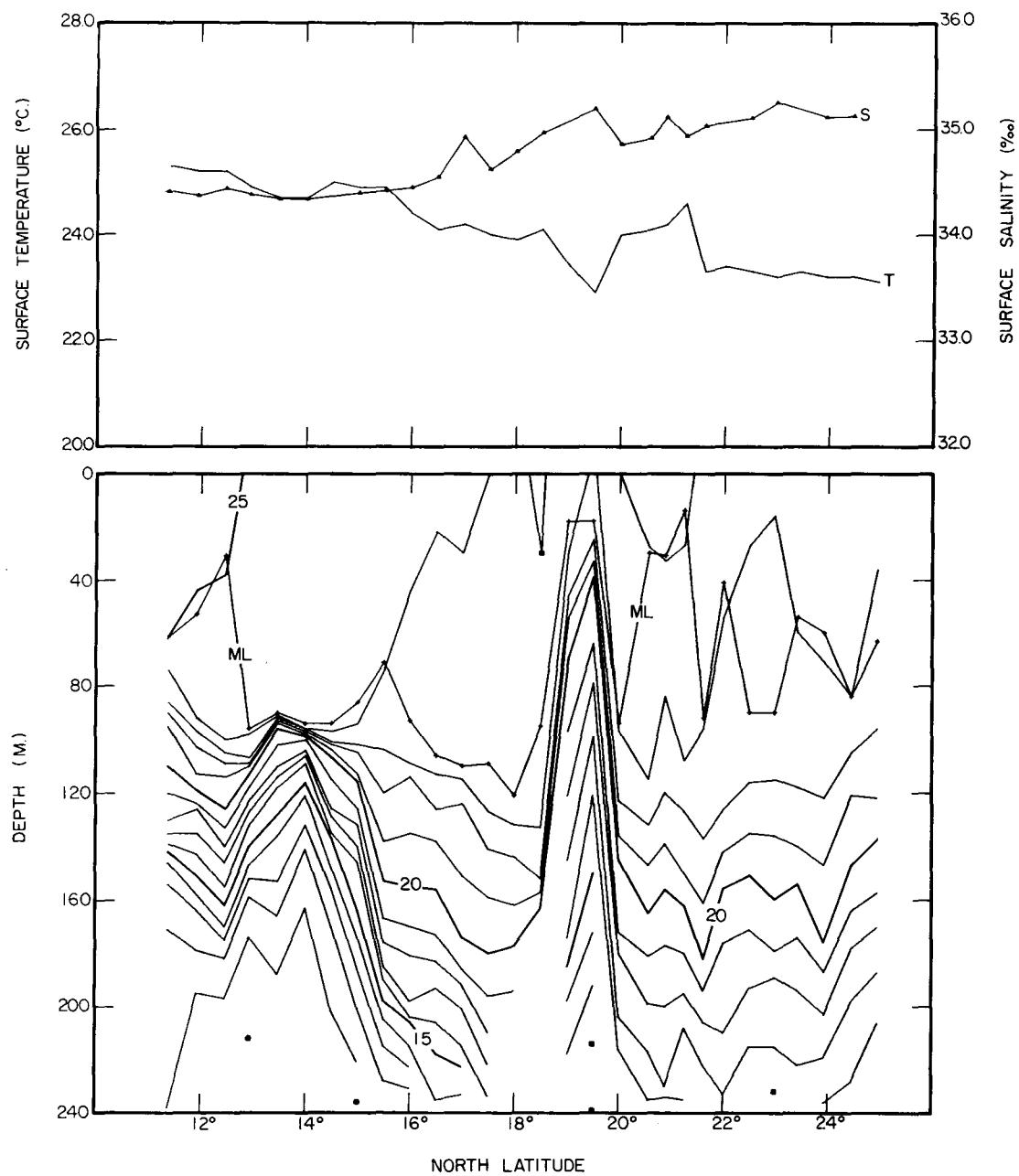


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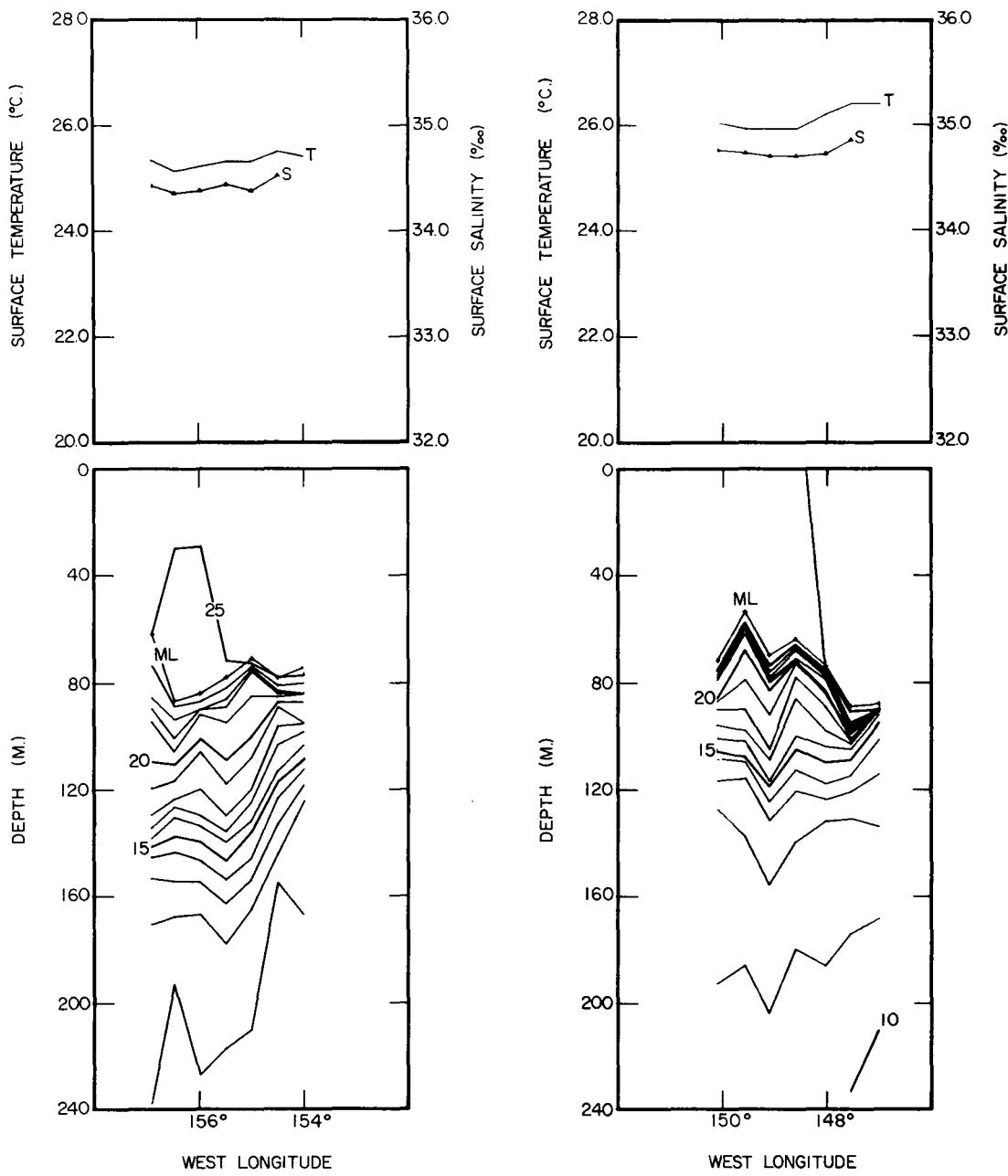


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{0}/oo$) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section ($^{\circ}$ C.) for Townsend Cromwell cruise 2 between stations 7 and 8, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

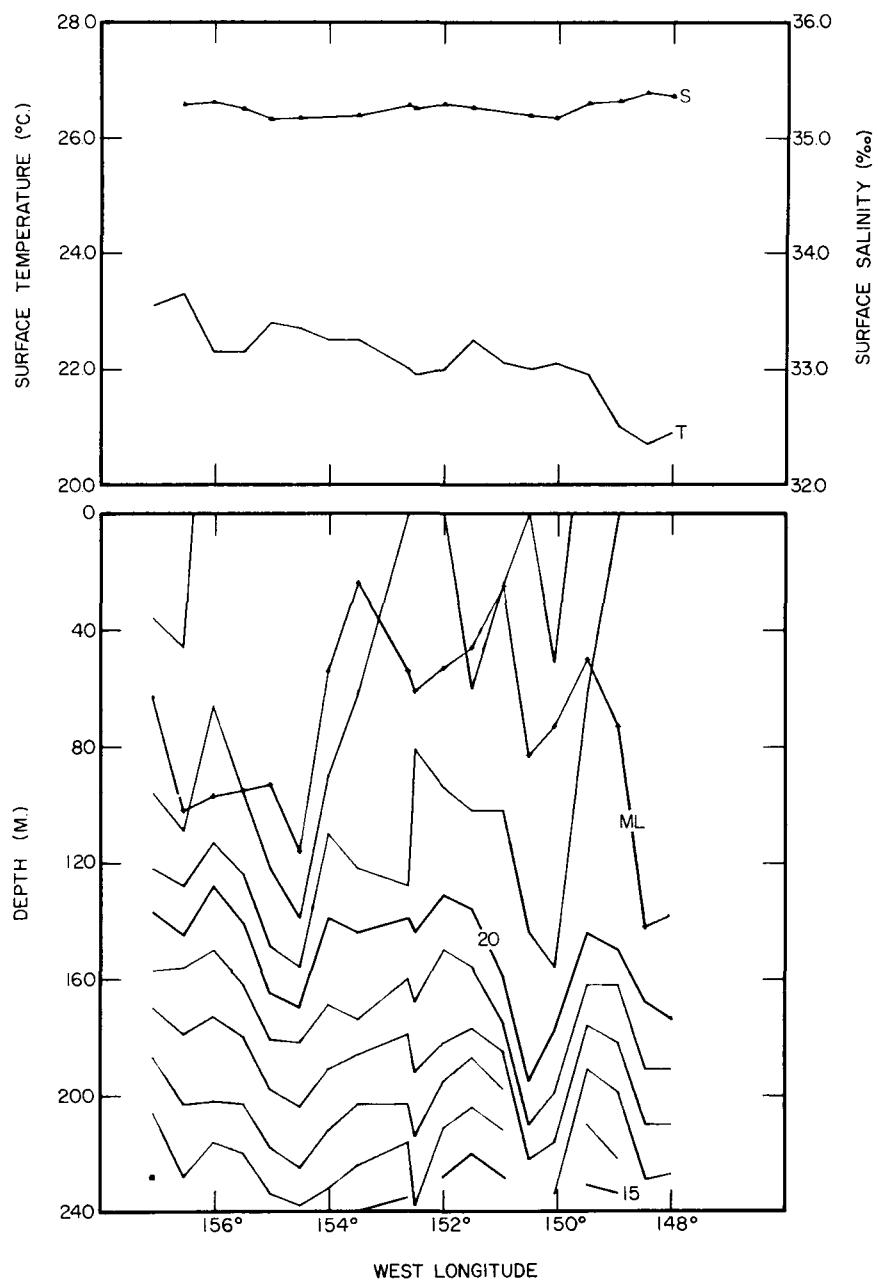


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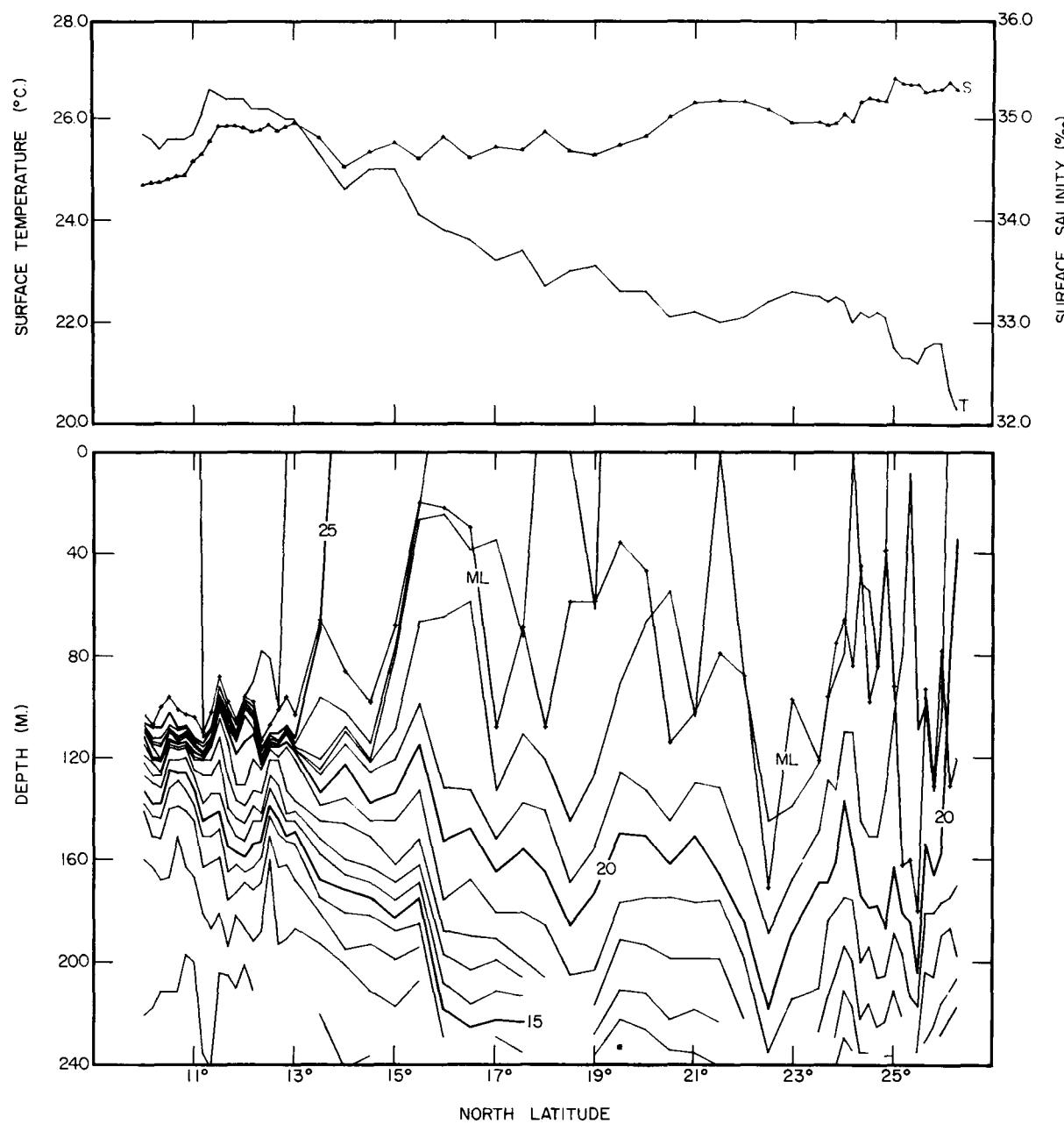


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 3 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

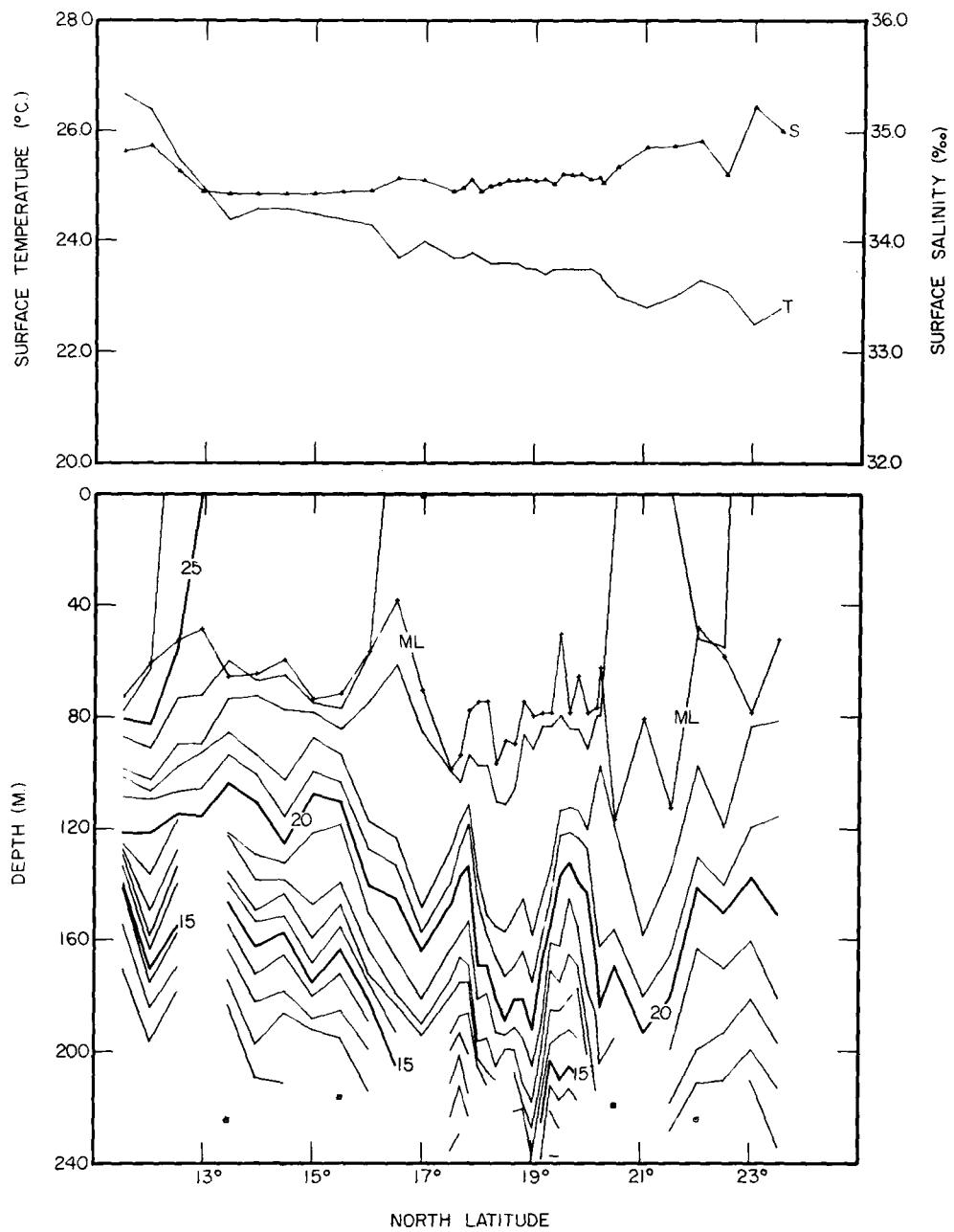


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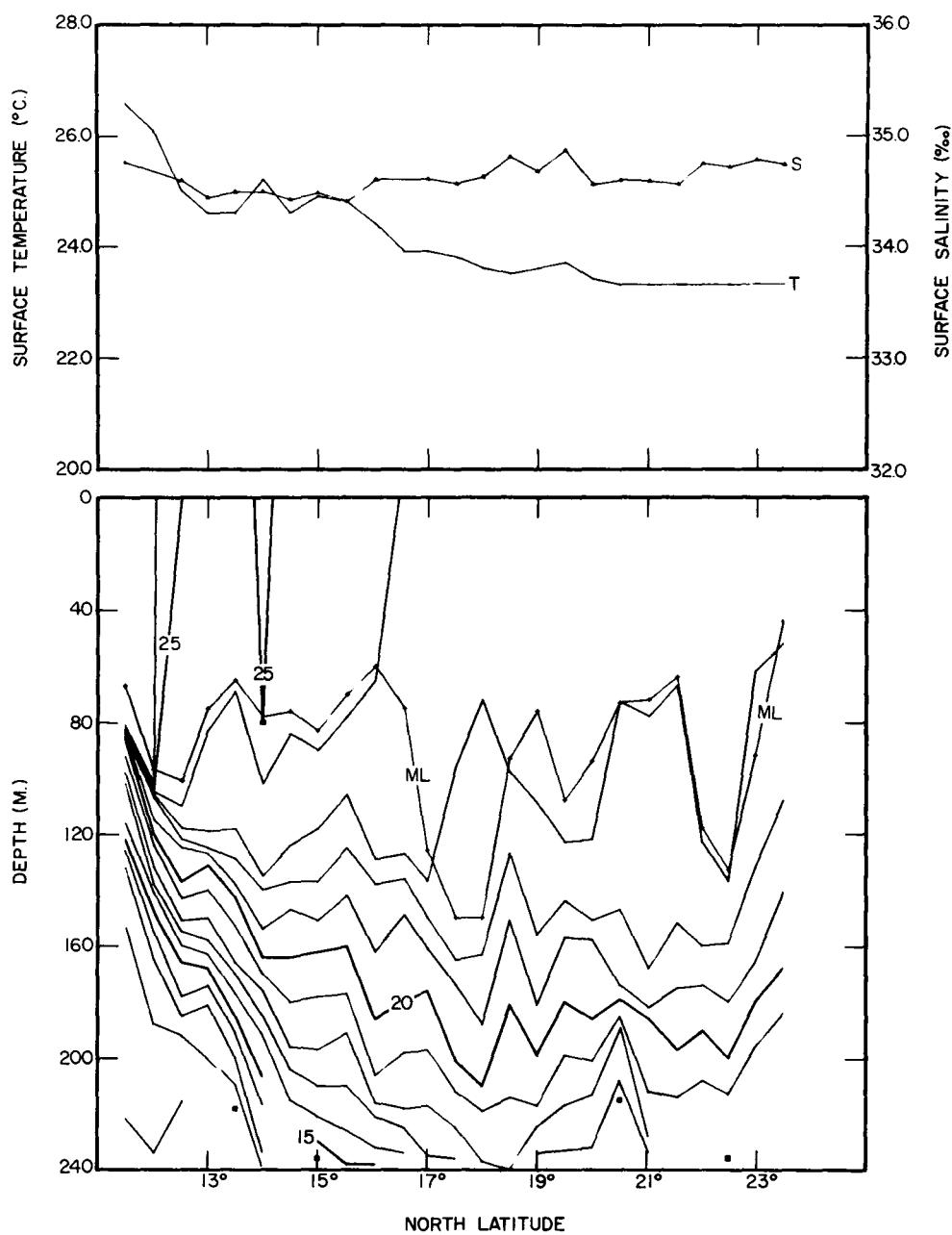


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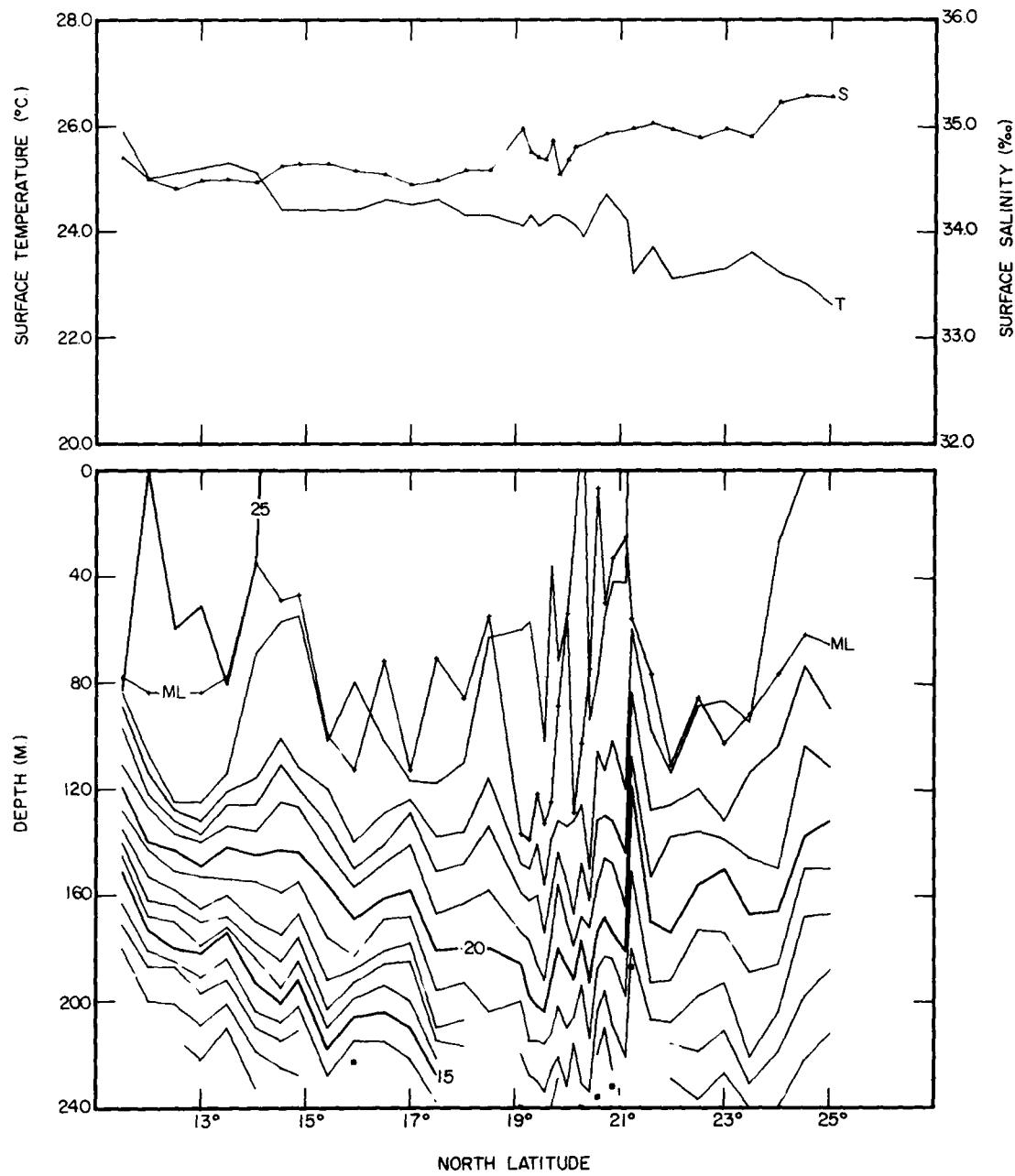


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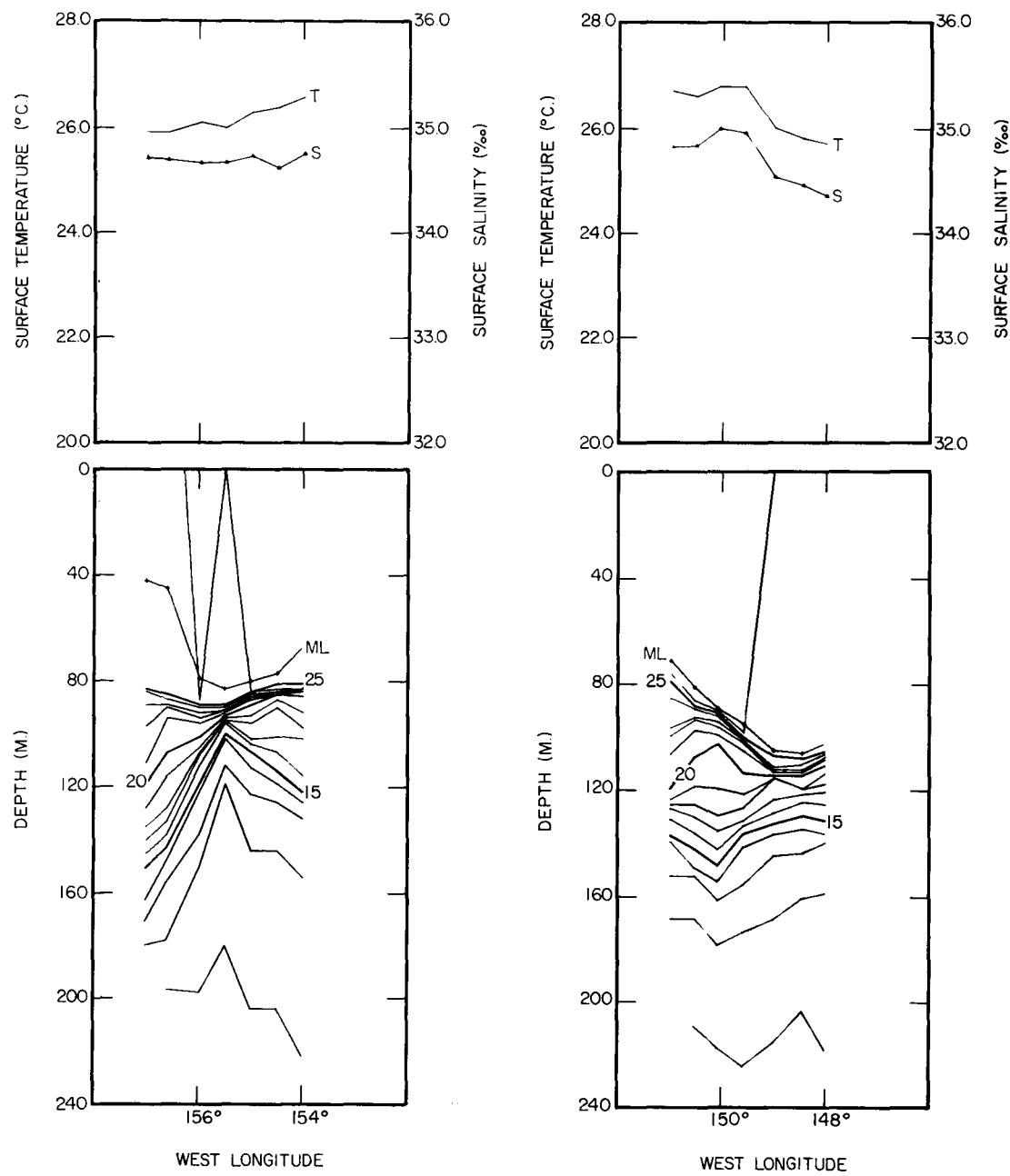


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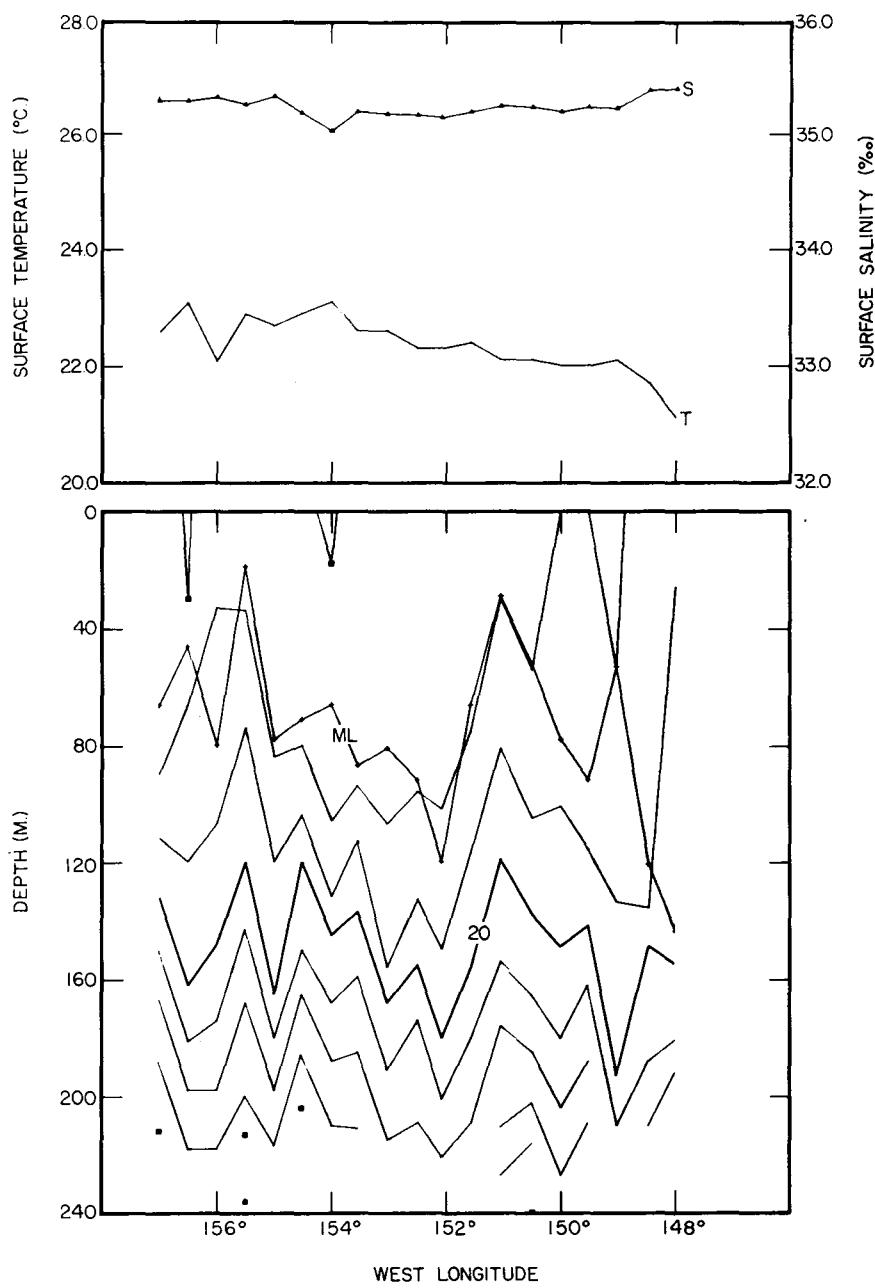


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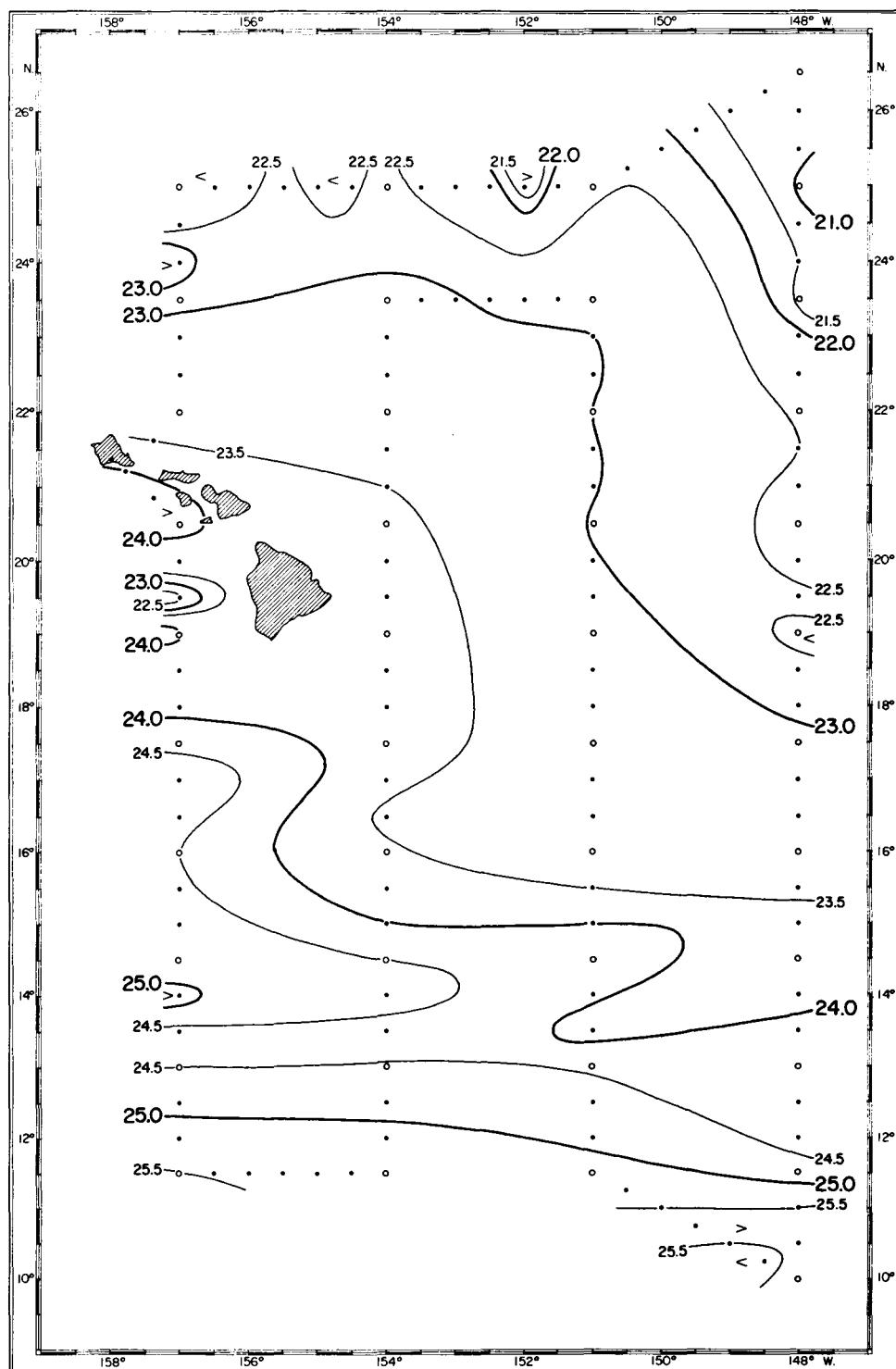


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 1.

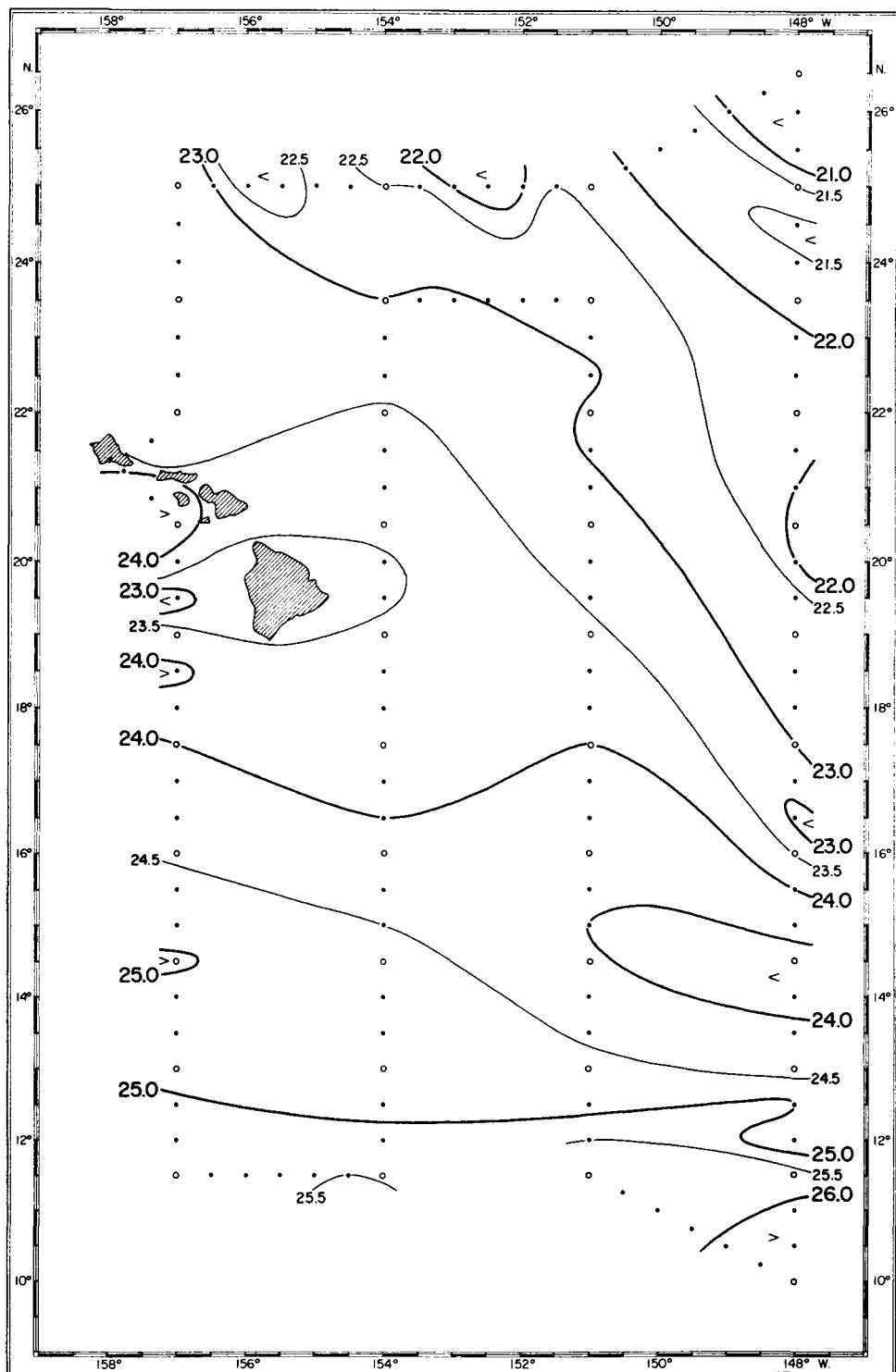


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 2.

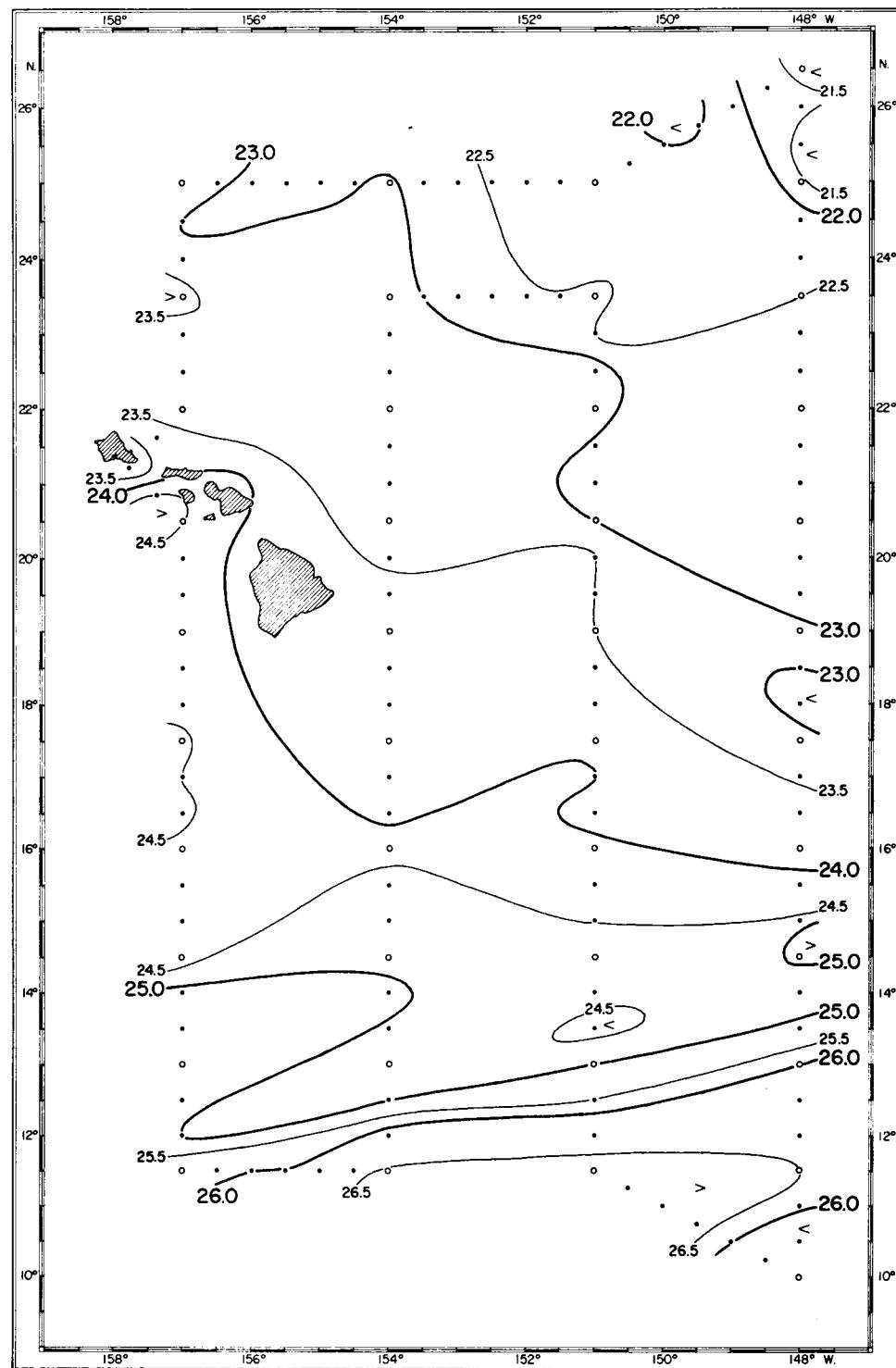


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 3.

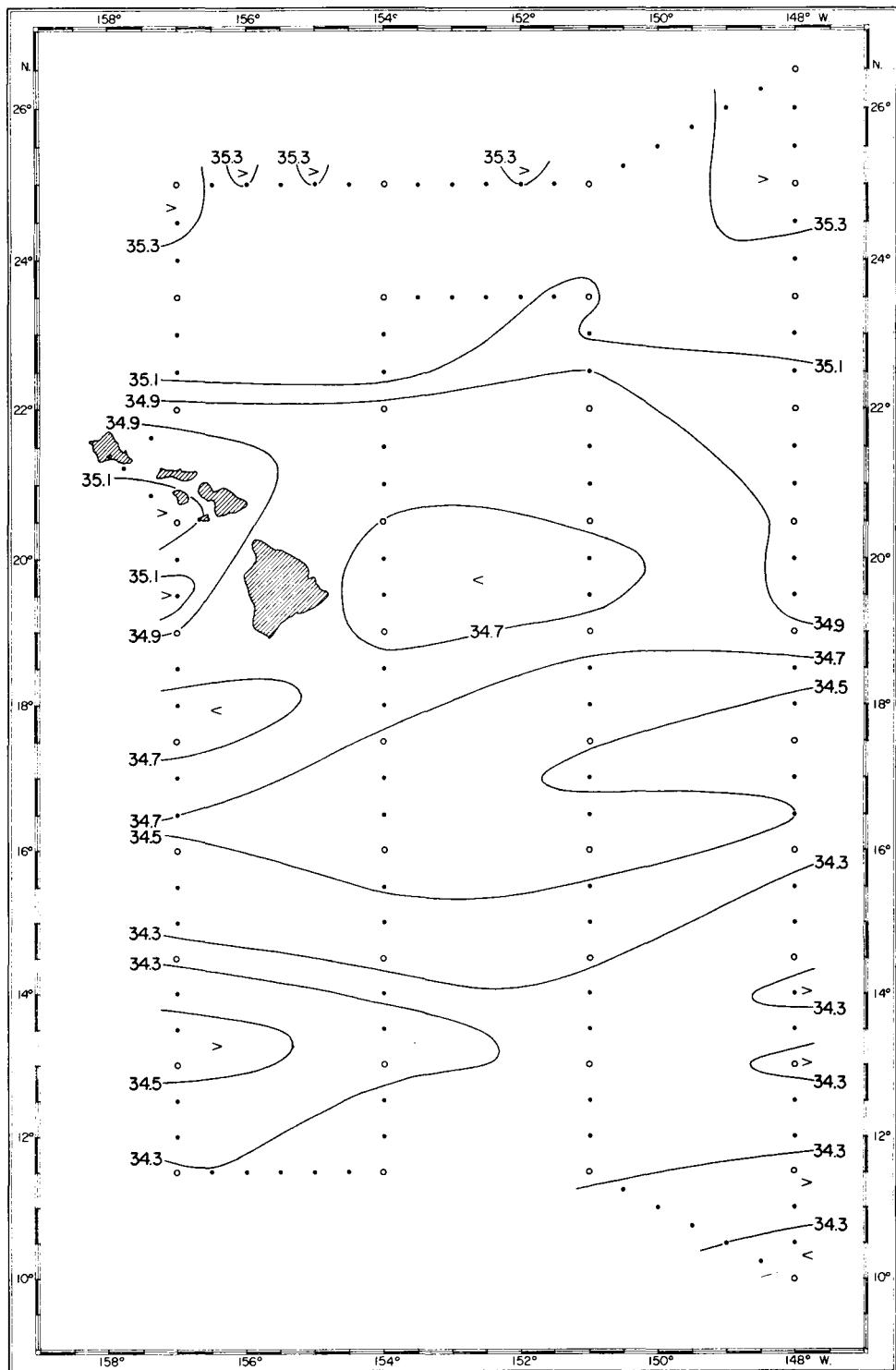


Figure 23.--Surface salinity distribution ($^{\circ}/oo$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 1.

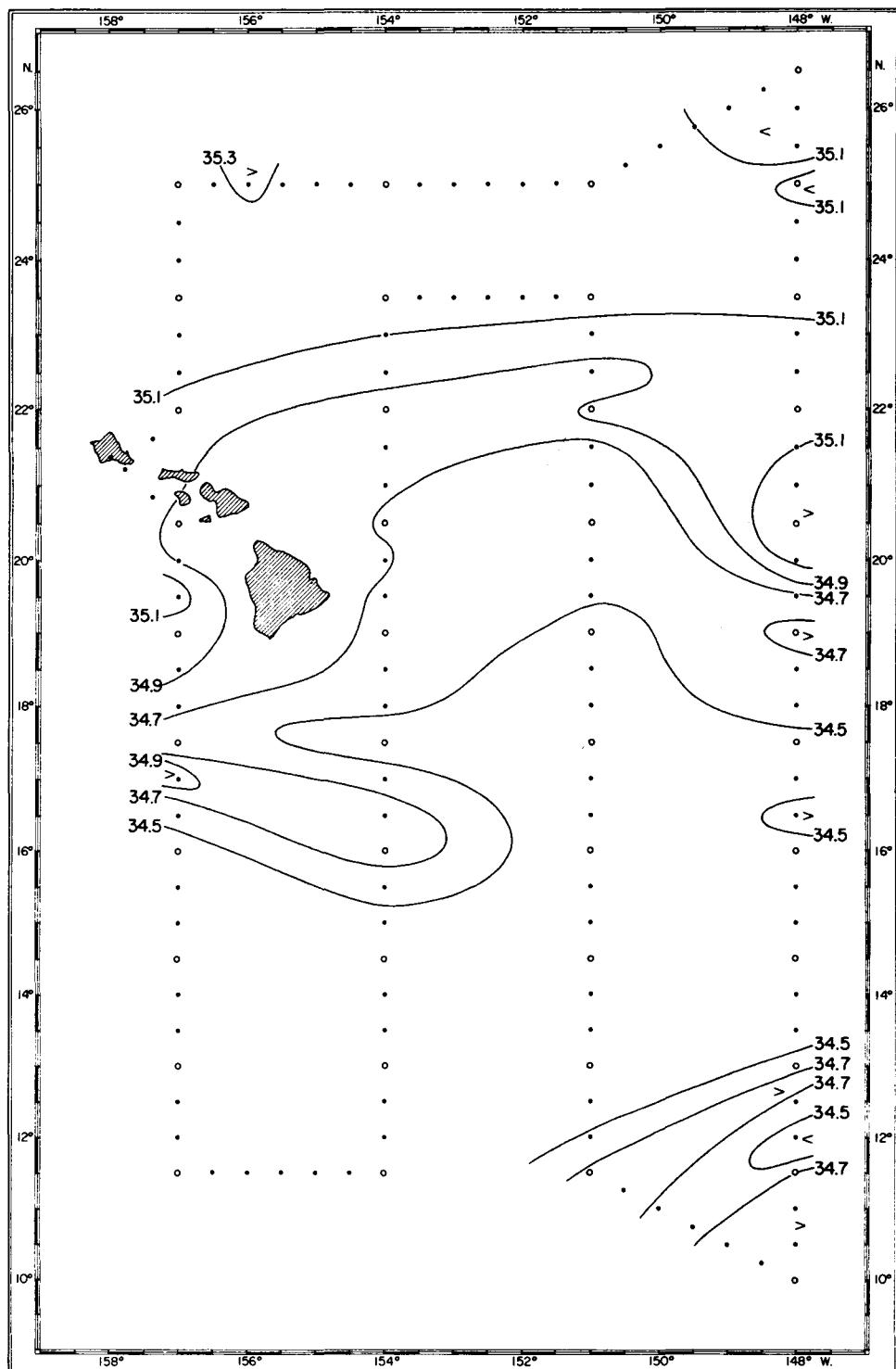


Figure 24.--Surface salinity distribution ($^{\circ}/oo$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 2.

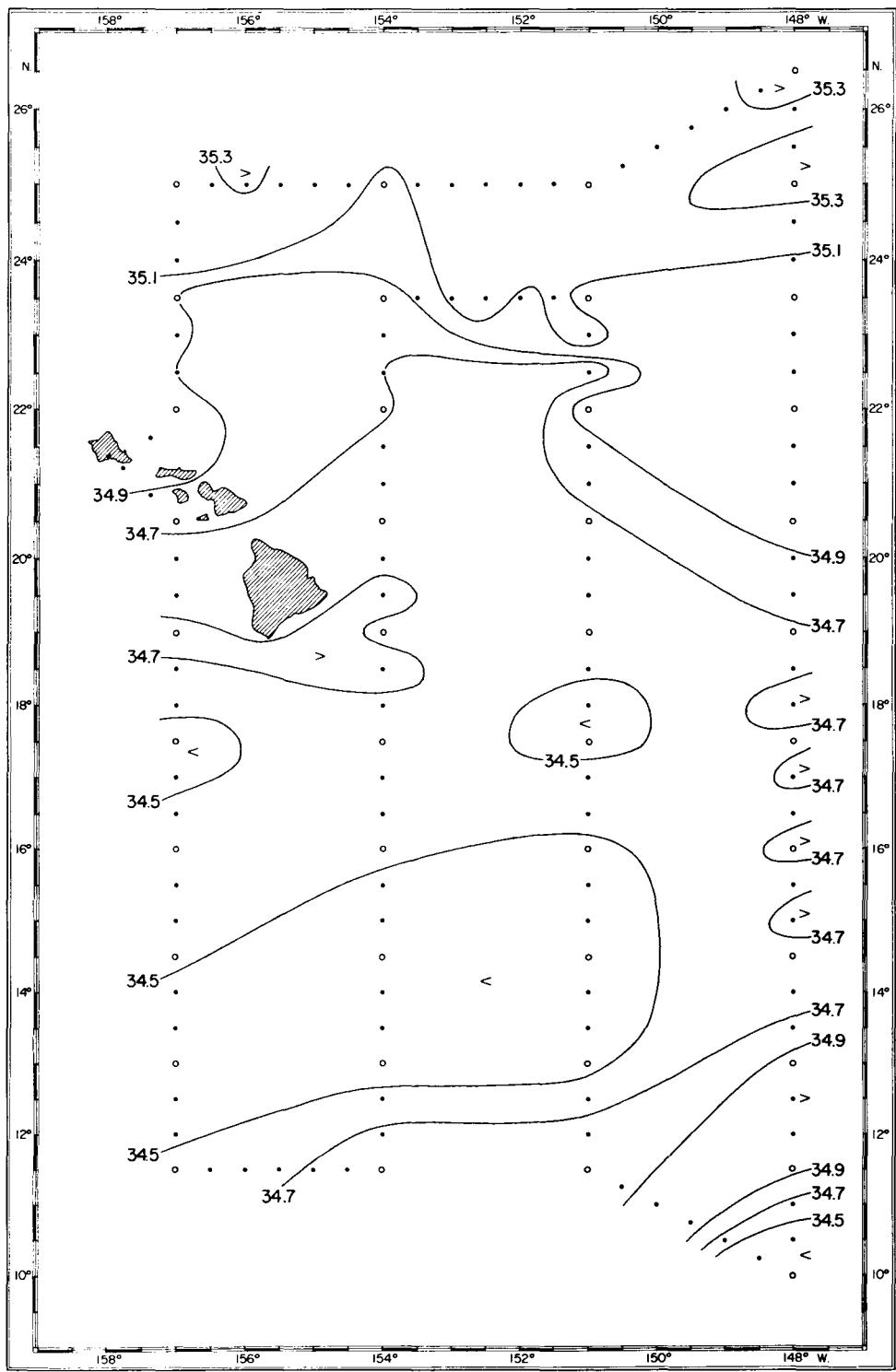


Figure 25.--Surface salinity distribution ($^{\circ}/oo$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 3.

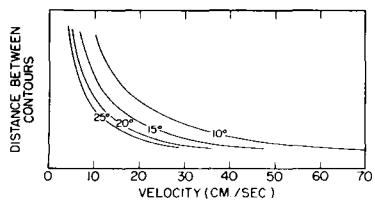
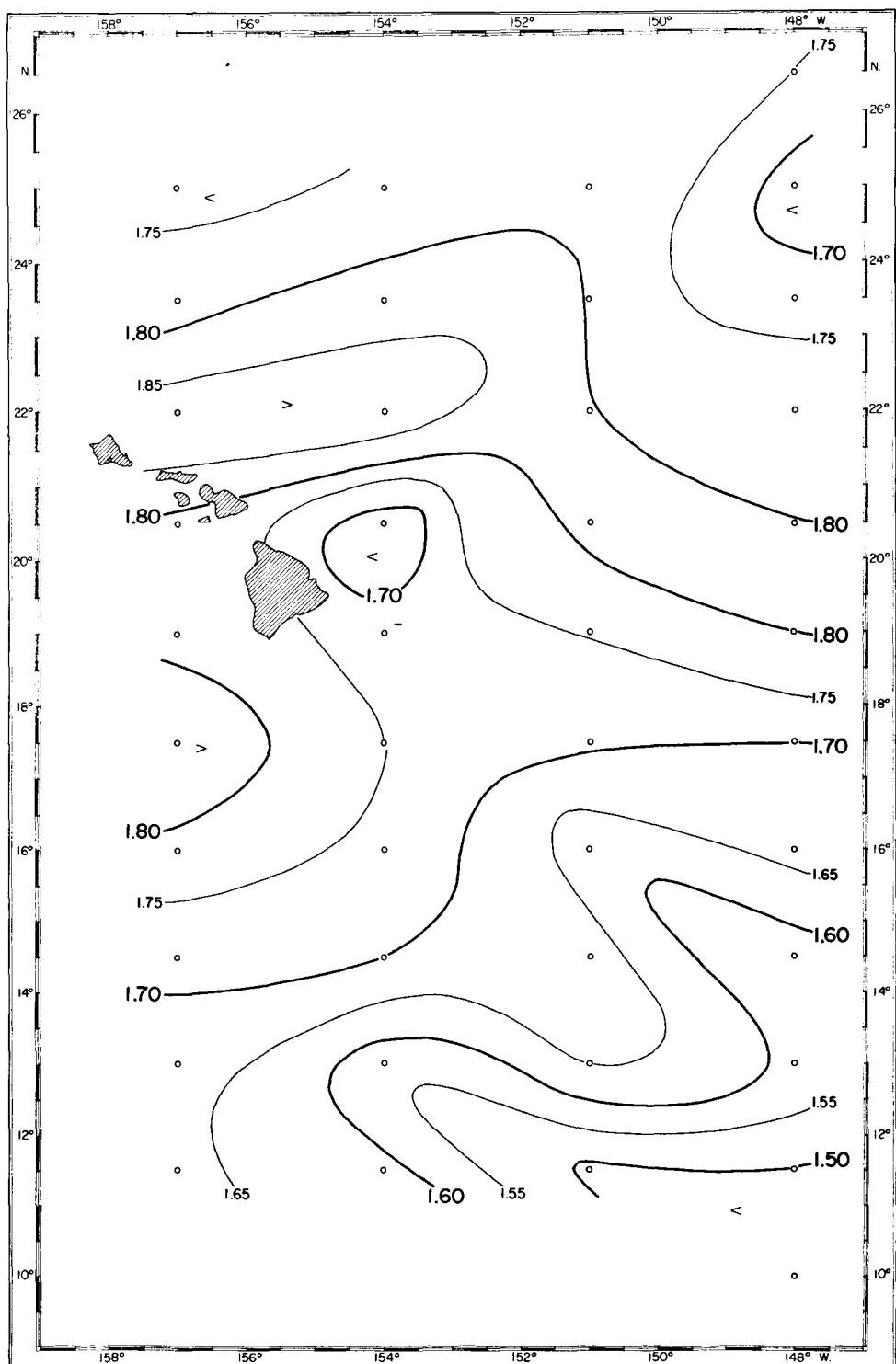


Figure 26.--Dynamic topography (dynamic meters)
relative to 1,000 m. for Townsend Cromwell
cruise 1.

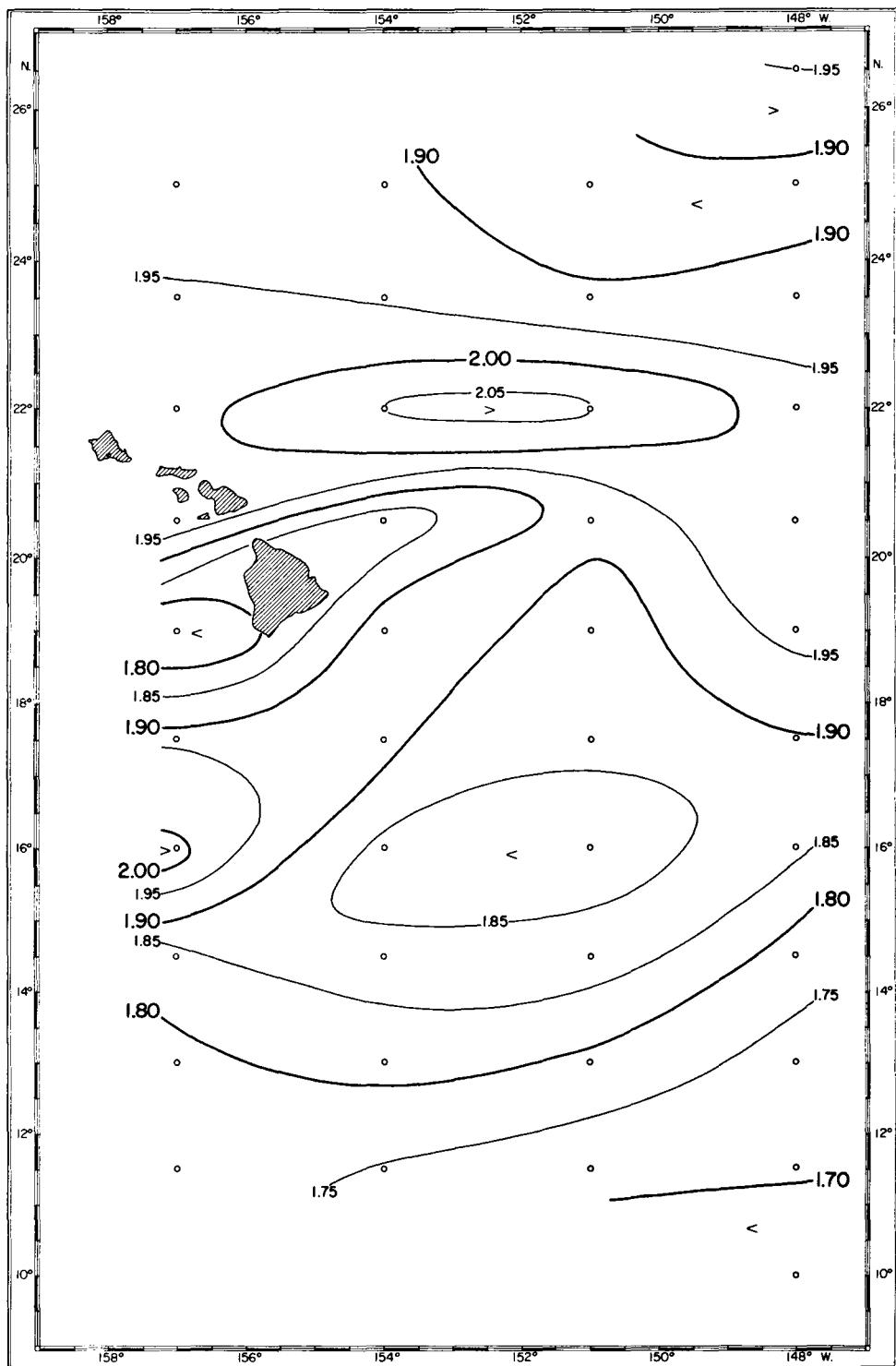
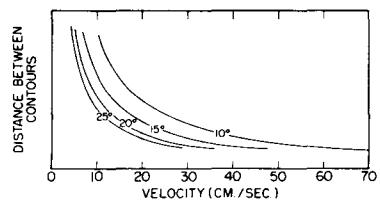


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 2.



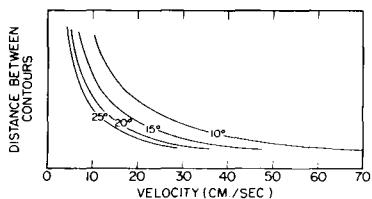
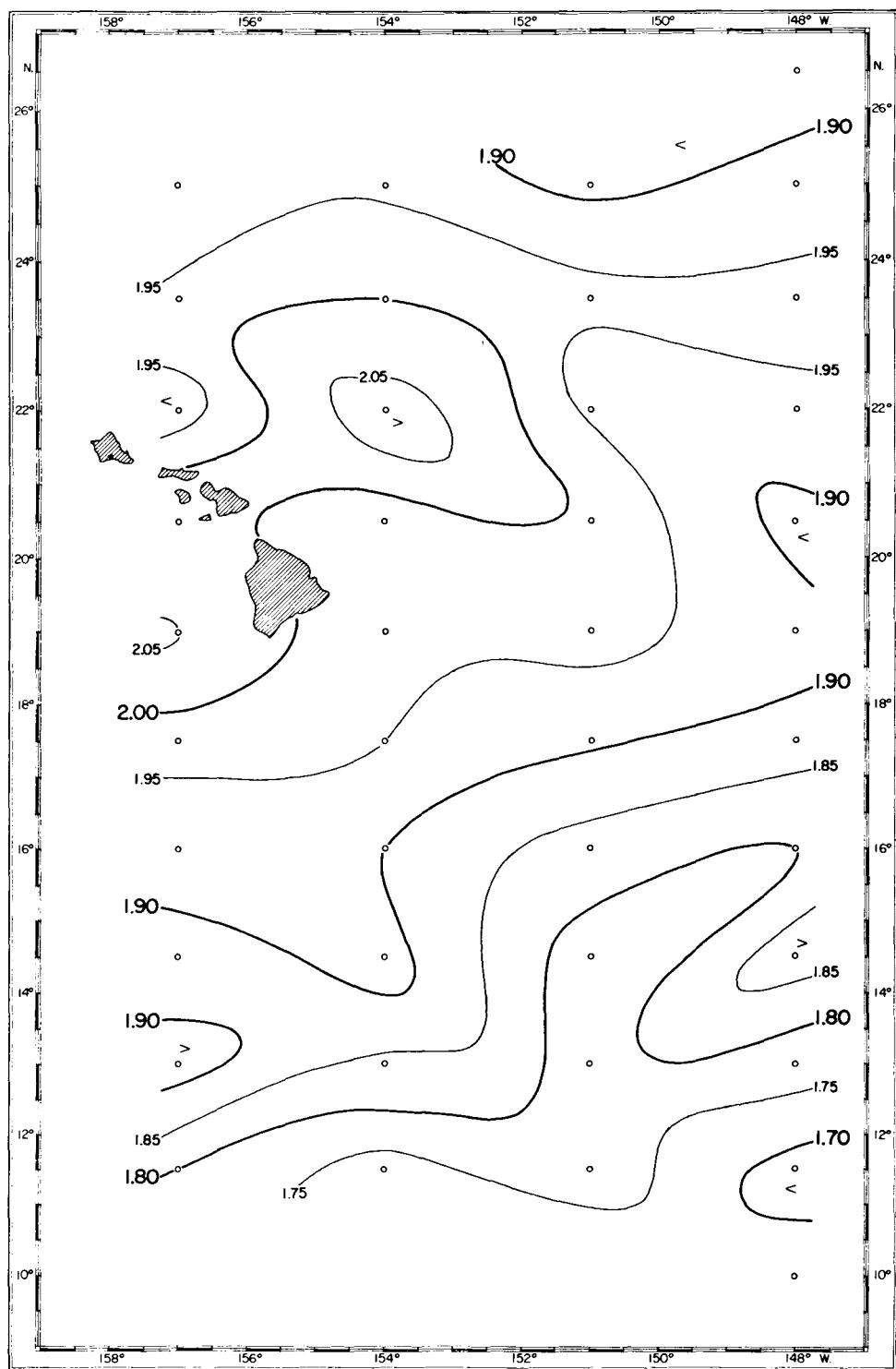


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 3.

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 1

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
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CROMWELL 1, STATION 1, 20-35N LAT, 157-16W LONG, FEB. 15, 1964, 2100 G.C.T.														
DRY BULB 24.5		WET BULB 20.1		WIND SPEED 15, DIR. 08		BAR. 19		WEATHER 00		VIS. 8		CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.34	34.99			23.55	434.6	0.	24.34	34.99	23.55	434.6	0.000		
11.	24.32	35.00			23.57	433.7	10.	24.32	35.00	23.57	433.8	0.044		
30. ^Δ	24.30	35.04			23.60	431.0	20.	24.31	35.02	23.58	432.4	0.098		
50.	24.29	35.07			23.63	429.3	30.	24.30	35.04	23.60	431.0	0.131		
75.	23.88	35.19			23.84	410.0	50.	24.29	35.07	23.63	429.3	0.218		
101.	22.77	35.14			24.13	383.8	75.	23.88	35.19	23.84	410.0	0.324		
126.	21.78	35.12			24.39	359.5	100.	22.82	35.14	24.11	384.9	0.424		
150.	20.16	35.06			24.78	322.6	150.	20.16	35.06	24.78	322.6	0.602		
176.	18.98	34.96			25.01	301.3	200.	17.10	34.77	25.33	271.5	0.792		
201.	17.02	34.76			25.34	270.4	250.	13.92	34.42	25.77	229.9	0.878		
226.	15.66	34.59			25.53	253.2	300.	11.70	34.23	26.07	202.3	0.987		
250.	13.92	34.42			25.77	229.9	400.	8.18	34.17	26.62	150.1	1.165		
275.	12.47	34.28			25.96	212.4	500.	6.70	34.21	26.86	127.4	1.305		
300.	11.70	34.23			26.07	202.3	600.	5.83	34.32	27.06	108.9	1.424		
400.	8.18	34.17			26.62	150.1	700.	5.26	34.40	27.19	96.8	1.528		
500.	6.70	34.21			26.86	127.4	800.	4.84	34.46	27.29	86.2	1.622		
600.	5.83	34.32			27.06	108.9	1000.	4.05	34.53	27.43	75.3	1.787		
800.	4.84	34.46			27.29	88.2	1200.	3.45	34.56	27.51	67.5	1.932		
1000.	4.05	34.53			27.43	75.3								
1200.	3.45	34.56			27.51	67.5								
1426.	2.85	34.60			27.60	59.0								

CROMWELL 1, STATION 2, 19- IN LAT, 156-57W LONG, FEB. 16, 1964, 1000 G.C.T.														
DRY BULB 24.0		WET BULB 20.0		WIND SPEED 31, DIR. 06		BAR. 17		WEATHER 00		VIS. 7		CLOUD TYPE , COVER		

DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.36	34.79			23.40	449.5	0.	24.36	34.79	23.40	447.0	0.000		
23.	24.36	34.87			23.46	444.7	10.	24.37	34.83	23.43	447.0	0.045		
30. ^Δ	24.35	34.88			23.47	443.9	20.	24.36	34.86	23.45	445.1	0.090		
41.	24.33	34.91			23.50	441.6	30.	24.35	34.88	23.47	443.9	0.135		
50. ^Δ	24.34	34.95			23.52	439.4	50.	24.34	34.95	23.52	439.4	0.224		
64.	24.35	35.01			23.57	435.9	75.	24.26	35.09	23.65	428.0	0.333		
75. ^Δ	24.26	35.09			23.65	428.0	100.	23.92	35.19	23.83	412.3	0.439		
92.	23.94	35.18			23.82	413.1	150.	20.60	35.08	24.68	332.5	0.627		
112.	23.72	35.18			23.88	407.7	200.	16.86	34.74	25.37	268.0	0.778		
137.	21.50	35.11			24.46	353.2	250.	12.71	34.29	25.92	215.4	0.900		
159.	20.02	35.05			24.81	320.1	300.	10.29	34.12	26.24	185.5	1.001		
194.	17.58	34.83			25.26	278.0	400.	7.50	34.07	26.64	147.5	1.169		
202.	16.61	34.71			25.40	264.7	500.	6.39	34.23	26.91	121.9	1.305		
246.	12.93	34.31			25.89	218.2	600.	5.49	34.34	27.12	103.1	1.419		
447.	7.13	34.18			26.78	134.8	700.	4.96	34.43	27.25	90.5	1.516		
639.	5.31	34.39			27.18	97.5	800.	4.69	34.46	27.31	86.2	1.606		
710.	4.91	34.44			27.26	89.6	1000.	4.00	34.54	27.44	74.0	1.768		
778.	4.73	34.45			27.29	87.4								
821.	4.63	34.47			27.32	85.1								
845.	4.51	34.47			27.33	83.9								
868.	4.43	34.48			27.35	82.4								
875.	4.39	34.49			27.36	81.2								
1048.	3.94	34.53			27.44	74.4								

TEMPERATURE ERROR TERM AT 300. METERS IS 0.46
 SALINITY ERROR TERM AT 300. METERS IS 0.08
 TEMPERATURE ERROR TERM AT 400. METERS IS 0.42
 SALINITY ERROR TERM AT 400. METERS IS 0.07

CROMWELL 1, STATION 3, 17-29N LAT, 157- OW LONG, FEB. 16, 1964, 2300 G.C.T.														
DRY BULB 24.0		WET BULB 20.9		WIND SPEED 25, DIR. 05		BAR. 16		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.	24.15	34.58			23.30	458.7	0.	24.15	34.58	23.30	458.7	0.000		
9.	24.14	34.58			23.30	458.8	10.	24.14	34.59	23.30	458.8	0.047		
50. ^Δ	24.14	34.58			23.30	460.4	20.	24.14	34.58	23.30	459.1	0.093		
65.	24.14	34.58			23.30	460.9	30.	24.14	34.58	23.30	459.5	0.139		
75. ^Δ	24.14	34.58			23.30	461.3	50.	24.14	34.58	23.30	460.4	0.232		
100. ^Δ	24.14	35.13			23.72	422.7	100.	24.14	35.13	23.72	422.7	0.459		
115.	24.14	35.13			23.72	423.3	150.	21.99	35.14	24.35	364.6	0.658		
142.	22.37	35.13			24.23	375.2	200.	18.00	34.85	25.18	296.3	0.822		
165.	21.16	35.13			24.57	343.8	250.	15.00	34.50	25.61	246.4	0.956		
189.	18.78	34.94			25.05	298.4	300.	10.61	34.17	26.22	187.5	1.065		
212.	17.28	34.76*			25.28	276.7	400.	8.05	34.18	26.64	147.7	1.235		
241.	15.80	34.57			25.48	253.2	500.	6.72	34.30	26.93	120.7	1.370		
296.	10.81	34.18			26.19	190.1	600.	5.93	34.37	27.09	106.3	1.485		
395.	8.14	34.17			26.62	149.4	700.	5.39	34.43	27.20	96.4	1.587		
485.	6.87	34.29			26.90	123.6	800.	4.97	34.48	27.28	88.7	1.681		
595.	5.96	34.37			27.08	106.9	1000.	4.15	34.55	27.43	75.1	1.847		
789.	5.02	34.47			27.27	89.6								
904.	4.52	34.52			27.37	80.9								
1006.	4.13	34.55			27.44	74.8								
1181.	3.66	34.57			27.50	69.1								

TEMPERATURE ERROR TERM AT 250. METERS IS 0.12

*FROM BT DATA

*INTERPOLATED VALUE

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 1, STATION 4, 16- ON LAT, 156-59W LONG, FEB. 17, 1964, 1200 G.C.T. DRY BULB 24.0 WET BULB 20.0 WIND SPEED 30, DIR. 05 BAR. 15 WEATHER 00	VIS. 7	CLOUD TYPE , COVER									

OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

CROMWELL 1, STATION 5, 14-29N LAT, 156-56W LONG, FEB. 17, 1964, 2300 G.C.T. DRY BULB 24.0 WET BULB 21.1 WIND SPEED 24, DIR. 07 BAR. 12 WEATHER 03											
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.74	34.27		22.89	497.9	0.	24.74	34.27	22.89	497.9	0.000
10.	24.78	34.28		22.89	498.7	10.	24.78	34.28	22.89	498.7	0.051
30. ^A	24.72	34.34		22.95	493.4	20.	24.76	34.31	22.91	496.5	0.101
50. ^A	24.66	34.37		22.99	490.3	30.	24.72	34.34	22.95	493.4	0.151
75. ^A	24.50	34.42		23.08	483.1	50.	24.66	34.37	22.99	490.3	0.250
105.	24.24	34.49		23.21	471.8	75.	24.50	34.42	23.08	483.1	0.372
129.	18.90	34.80		24.91	309.4	100.	24.53	34.47	23.10	481.7	0.494
159.	14.79	34.45		25.61	243.0	150.	15.74	34.59	25.51	252.9	0.679
183.	13.36	34.33		25.82	223.5	200.	12.20	34.26	25.99	207.1	0.795
208.	11.66	34.23		26.07	199.4	250.	9.93	34.29	26.43	166.1	0.889
233.	10.28	34.19		26.29	178.9	300.	9.14	34.63	26.67	144.1	0.967
262.	9.82	34.37		26.51	158.6	400.	7.96	34.48	26.89	124.0	1.103
277.	9.59	34.42		26.59	151.5	500.	7.30	34.52	27.02	113.1	1.222
311.	8.92	34.42		26.70	141.4	600.	6.67	34.52	27.11	105.5	1.333
413.	7.88	34.49		26.91	122.2	700.	6.04	34.52	27.19	98.0	1.436
514.	7.22	34.52		27.03	112.0	800.	5.45	34.53	27.27	90.9	1.531
615.	6.58	34.52		27.12	104.5	1000.	4.54	34.54	27.38	80.7	1.705
814.	5.37	34.53		27.28	90.0	1200.	3.81	34.57	27.48	71.3	1.859
1018.	4.47	34.54		27.39	79.9	1500.	3.09	34.64	27.61	59.1	2.057
1212.	3.77	34.57		27.49	70.7						
1515.	3.07	34.65		27.62	58.5						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.16

CROMWELL 1, STATION 6, 13- ON LAT, 157- 0W LONG, FEB. 18, 1964, 1300 G.C.T. DRY BULB 24.0 WET BULB 21.2 WIND SPEED 24, DIR. 06 BAR. 14 WEATHER 02											
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.58	34.63		23.21	467.4	0.	24.58	34.63	23.21	467.4	0.000
11.	24.57	34.63		23.21	467.5	10.	24.57	34.63	23.21	467.5	0.048
51. ^A	24.58	34.63		23.21	469.4	20.	24.57	34.63	23.21	467.9	0.095
75. ^A	24.57	34.63		23.21	470.0	30.	24.57	34.63	23.21	468.3	0.142
76.	24.58	34.63		23.21	470.3	50.	24.58	34.63	23.21	469.3	0.236
105.	20.96	35.12		24.62	337.1	75.	24.57	34.63	23.21	470.0	0.355
131.	19.28	34.96		24.94	307.2	100.	21.79	35.03	24.32	365.4	0.460
171.	14.84	34.44		25.59	245.1	150.	17.60	34.69	25.15	287.0	0.624
185.	12.20	34.42		26.12	194.8	200.	11.61	34.46	26.26	181.7	0.742
210.	11.66	34.50		26.28	179.7	250.	10.58	34.61	26.56	153.7	0.827
225.	10.87	34.56		26.48	161.6	300.	10.20	34.64	26.66	145.9	0.902
265.	10.62	34.62		26.57	153.7	400.	9.17	34.61	26.81	132.8	1.043
280.	10.43	34.64		26.62	149.3	500.	8.13	34.58	26.94	120.9	1.171
314.	10.04	34.63		26.68	144.2	600.	7.15	34.55	27.06	110.5	1.288
419.	8.98	34.61		26.84	130.5	700.	6.29	34.53	27.17	100.9	1.395
522.	7.90	34.57		26.97	118.5	800.	5.55	34.53	27.26	92.4	1.493
625.	6.93	34.54		27.09	108.1	1000.	4.62	34.55	27.39	80.6	1.668
827.	5.38	34.53		27.28	90.3	1200.	3.95	34.57	27.47	73.0	1.823
1036.	4.50	34.56		27.40	79.0	1500.	3.13	34.60	27.57	63.1	2.030
1235.	3.85	34.57		27.48	71.9						
1542.	3.04	34.60		27.58	62.0						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.22

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25

TEMPERATURE ERROR TERM AT 250. METERS IS 0.12

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.5	1, STATION WET BULB 22.7	7, 11-32N LAT, 156-58W LONG, FEB. 18, 1964, 2300 G.C.T.						VIS.	CLOUD	TYPE	COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.47	34.25		22.65	520.5	0.	25.47	34.25	22.65	520.5	0.000	
1.	25.44	34.25		22.66	519.7	10.	25.38	34.25	22.68	518.4	0.053	
20. ^A	25.46	34.25		22.66	521.0	20.	25.46	34.25	22.66	521.0	0.105	
40.	25.41	34.25		22.67	520.4	30.	25.44	34.25	22.66	520.9	0.158	
50. ^A	25.40	34.26		22.68	519.7	50.	25.40	34.26	22.68	519.7	0.262	
76.	24.44	34.56		23.20	471.4	75.	24.52	34.55	23.17	474.5	0.348	
106.	19.85	34.81		24.68	331.3	100.	20.82	34.78	24.39	358.2	0.493	
139.	17.56	34.74		25.20	282.2	150.	14.91	34.58	25.68	236.0	0.642	
160.	12.63	34.45		26.06	200.1	200.	11.46	34.72	26.49	159.8	0.742	
186.	11.73	34.62		26.36	171.6	250.	10.82	34.71	26.60	150.1	0.820	
202.	11.43	34.73		26.51	158.5	300.	10.17	34.69	26.70	141.9	0.894	
237.	10.93	34.71		26.58	151.9	400.	9.17	34.65	26.84	130.3	1.031	
266.	10.66	34.71		26.63	147.8	500.	8.26	34.60	26.94	121.4	1.158	
292.	10.40	34.69		26.66	145.2	600.	7.38	34.57	27.05	111.8	1.276	
317.	9.98	34.69		26.73	138.9	700.	6.51	34.56	27.16	102.0	1.384	
413.	9.06	34.64		26.85	129.4	800.	5.74	34.55	27.25	93.2	1.433	
527.	8.02	34.59		26.97	118.9	1000.	4.68	34.56	27.38	81.0	1.659	
623.	7.18	34.57		27.08	109.5	1200.	3.93	34.57	27.47	72.6	1.815	
808.	5.68	34.55		27.26	92.6	1500.	3.06	34.61	27.57	63.3	2.021	
1014.	4.62	34.56		27.39	80.3							
1209.	3.90	34.57		27.48	72.3							
1513.	3.02	34.61		27.58	63.0							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.16

TEMPERATURE ERROR TERM AT 150. METERS IS 0.27

CROMWELL DRY BULB 25.2	1, STATION WET BULB 21.4	8, 11-32N LAT, 154-0W LONG, FEB. 19, 1964, 2000 G.C.T.						VIS. 8	CLOUD	TYPE	COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.00	34.23		22.78	508.3	0.	25.00	34.23	22.78	508.3	0.000	
10.	25.00	34.25		22.80	507.2	10.	25.00	34.25	22.80	507.2	0.052	
30. ^A	25.00	34.25		22.80	508.0	20.	25.00	34.25	22.80	507.4	0.103	
50. ^A	25.00	34.25		22.80	508.8	30.	25.00	34.25	22.80	508.0	0.154	
69.	25.01	34.26		22.80	509.1	50.	25.00	34.25	22.80	508.8	0.256	
75. ^A	25.01	34.26		22.80	509.3	75.	25.01	34.26	22.80	509.3	0.385	
96.	19.73	34.85		24.74	325.0	100.	19.01	34.84	24.91	308.5	0.488	
118.	16.38	34.60		25.37	265.0	150.	12.66	34.31	25.95	210.3	0.618	
145.	13.13	34.31		25.85	219.5	200.	11.35	34.70	26.50	159.2	0.711	
167.	11.54	34.41		26.24	183.1	250.	10.49	34.71	26.66	144.5	0.768	
188.	11.49	34.63		26.42	166.5	300.	9.96	34.70	26.74	137.5	0.859	
209.	11.21	34.73		26.55	154.7	400.	9.01	34.64	26.85	128.6	0.933	
234.	10.67	34.71		26.63	147.3	500.	9.01	34.59	26.97	118.5	1.118	
247.	10.52	34.71		26.65	145.0	600.	7.02	34.55	27.08	108.5	1.233	
279.	10.17	34.71		26.72	139.8	700.	6.17	34.54	27.19	98.7	1.337	
370.	9.30	34.65		26.82	131.7	900.	5.50	34.54	27.27	90.8	1.433	
460.	8.42	34.61		26.92	122.4	1000.	4.52	34.56	27.41	78.6	1.605	
552.	7.48	34.56		27.03	113.5	1200.	3.78	34.58	27.50	69.8	1.755	
731.	5.94	34.54		27.22	95.8							
917.	4.89	34.55		27.35	83.5							
1099.	4.14	34.58		27.46	73.6							
1393.	3.31	34.60		27.56	64.3							

CROMWELL DRY BULB 24.2	1, STATION WET BULB 21.0	9, 13-4N LAT, 153-53W LONG, FEB. 20, 1964, 0700 G.C.T.						VIS. R	CLOUD	TYPE	COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.52	34.38		23.04	483.7	0.	24.52	34.38	23.04	483.7	0.200	
11.	24.49	34.39		23.06	482.5	10.	24.49	34.39	23.05	482.6	0.049	
30. ^A	24.49	34.39		23.06	483.3	20.	24.49	34.39	23.06	482.6	0.098	
51.	24.49	34.39		23.06	484.1	30.	24.49	34.39	23.06	483.1	0.146	
76.	24.22	34.37		23.12	478.8	50.	24.49	34.39	23.06	484.1	0.244	
106.	18.51	34.83		25.03	297.0	75.	24.27	34.37	23.10	480.4	0.365	
131.	14.95	34.28		25.45	257.9	100.	19.42	34.77	24.65	333.6	0.468	
160.	11.84	34.29		26.09	197.1	150.	12.70	34.23	25.88	217.2	0.607	
186.	11.29	34.54		26.38	169.5	200.	11.16	34.61	26.46	162.6	0.702	
209.	11.04	34.63		26.49	159.7	250.	10.29	34.64	26.64	146.0	0.790	
235.	10.63	34.64		26.58	151.8	300.	9.41	34.62	26.77	134.5	0.951	
264.	9.98	34.64		26.69	141.4	400.	8.31	34.58	26.92	122.1	0.940	
278.	9.75	34.62		26.72	139.4	500.	7.31	34.54	27.04	111.5	1.098	
311.	9.25	34.62		26.80	131.9	600.	6.43	34.52	27.14	102.2	1.206	
410.	8.22	34.57		26.92	121.4	700.	5.75	34.52	27.23	94.0	1.305	
507.	7.24	34.54		27.04	110.7	800.	5.21	34.54	27.31	87.0	1.397	
604.	6.40	34.52		27.14	101.9	1000.	4.62	34.57	27.42	76.8	1.563	
794.	5.24	34.54		27.30	87.3	1200.	3.77	34.59	27.50	69.3	1.711	
989.	4.46	34.57		27.42	77.3							
1174.	3.85	34.58		27.49	70.7							
1440.	3.18	34.61		27.58	62.3							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.20

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 23.5	1, STATION WET BULB 20.5	10, 14-33N LAT, 153-57W LONG, FEB. 20, 1964, 1700 G.C.T.						VIS.	CLOUD	TYPE	, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.42	34.32			23.02	485.1	0.	24.42	34.32	23.02	485.1	0.000
10.	24.44	34.31			23.01	486.8	10.	24.44	34.31	23.01	486.8	0.049
30. ^A	24.46	34.34			23.03	486.0	20.	24.45	34.32	23.02	486.7	0.298
50. ^A	24.46	34.36			23.04	485.3	30.	24.46	34.34	23.03	486.0	0.147
76.	24.24	34.43			23.16	475.0	50.	24.46	34.36	23.04	485.3	0.245
105.	22.32	35.05			24.19	378.2	75.	24.26	34.42	23.15	476.2	0.366
130.	20.28	35.12			24.80	320.6	100.	22.73	34.94	23.99	396.9	0.476
159.	17.19	34.69			25.25	278.0	150.	18.15	34.84	25.14	288.8	0.649
185.	15.12	34.44			25.53	251.4	200.	13.05	34.26	25.83	222.7	0.778
208.	12.07	34.21			25.98	208.4	250.	11.58	34.60	26.38	171.8	0.878
235.	11.74	34.53			26.29	179.5	300.	9.02	34.39	26.66	144.7	0.957
264.	11.00	34.56			26.45	164.8	400.	8.31	34.53	26.88	125.4	1.094
278.	9.48	34.37			26.57	153.4	500.	7.48	34.55	27.01	113.8	1.214
314.	9.24	34.49			26.70	141.4	600.	6.73	34.54	27.12	104.5	1.325
418.	8.10	34.52			26.90	123.4	700.	6.04	34.53	27.20	97.2	1.427
523.	7.33	34.55			27.04	111.6	800.	5.46	34.53	27.27	91.0	1.522
627.	6.52	34.56			27.14	102.4	1000.	4.58	34.54	27.38	80.7	1.696
832.	5.30	34.53			27.29	89.3	1200.	3.84	34.57	27.48	71.8	1.250
1042.	4.42	34.55			27.41	78.8	1500.	3.00	34.60	27.58	61.6	2.053
1241.	3.70	34.57			27.50	70.1						
1551.	2.89	34.60			27.60	60.2						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14
 TEMPERATURE ERROR TERM AT 250. METERS IS 0.12
 TEMPERATURE ERROR TERM AT 300. METERS IS 0.21

CROMWELL DRY BULB 23.9	1, STATION WET BULB 20.4	11, 16- ON LAT, 154- 2W LONG, FEB. 21, 1964, 0200 G.C.T.						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.	23.75	34.60			23.43	446.0	0.	23.75	34.60	23.43	446.0	0.000
9.	23.69	34.59			23.44	445.4	10.	23.69	34.59	23.44	445.4	0.045
30. ^A	23.70	34.59			23.44	446.5	20.	23.69	34.59	23.44	445.9	0.090
47.	23.57	34.56			23.46	445.7	30.	23.70	34.59	23.44	446.5	0.135
71. ^A	23.57	34.60			23.49	443.7	50.	23.56	34.57	23.46	445.0	0.225
75. ^A	23.58	34.59			23.48	444.8	75.	23.58	34.59	23.48	444.8	0.337
96.	23.32	34.59			23.55	438.4	100.	22.99	34.59	23.65	429.4	0.447
100.	22.99	34.59			23.65	429.4	150.	18.15	34.81	25.11	291.3	0.629
123.	20.44	35.10			24.74	325.8	200.	13.44	34.42	25.87	219.1	0.757
151.	18.06	34.79			25.12	290.7	250.	11.54	34.52	26.33	176.7	0.557
176.	15.09	34.46			25.55	249.0	300.	10.95	34.68	26.55	156.1	0.941
276.	11.36	34.68			26.43	162.6	400.	9.62	34.64	26.75	138.6	1.090
291.	11.10	34.68			26.53	158.3	500.	8.51	34.59	26.89	126.3	1.224
326.	10.56	34.67			26.62	150.4	600.	7.54	34.55	27.01	116.0	1.346
432.	9.27	34.62			26.80	134.7	700.	6.64	34.53	27.12	106.1	1.458
537.	8.13	34.57			26.94	122.3	800.	5.81	34.51	27.21	97.0	1.561
643.	7.17	34.54			27.05	111.9	1000.	4.76	34.54	27.36	83.7	1.744
848.	5.45	34.51			27.26	93.0	1200.	4.07	34.56	27.45	74.8	1.904
1060.	4.56	34.55			27.39	80.7	1500.	3.19	34.60	27.57	63.7	2.115
1261.	3.88	34.57			27.48	72.5						
1518.	3.15	34.60			27.57	63.2						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.29
 SALINITY ERROR TERM AT 200. METERS IS 0.09
 TEMPERATURE ERROR TERM AT 250. METERS IS 0.31
 SALINITY ERROR TERM AT 250. METERS IS 0.09

CROMWELL DRY BULB 23.0	1, STATION WET BULB 20.5	12, 17-30N LAT, 154- 0W LONG, FEB. 21, 1964, 1300 G.C.T.						VIS. 8	CLOUD	TYPE , COVER 0		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
1.	23.78	34.63			23.45	444.7	0.	23.74	34.63	23.45	444.7	0.000
11.	23.80	34.62			23.43	446.4	10.	23.60	34.62	23.43	446.4	0.045
30. ^A	23.80	34.72			23.51	439.9	20.	23.00	34.65	23.46	444.5	0.090
50. ^A	23.80	34.92			23.66	426.3	30.	23.80	34.72	23.51	439.9	0.135
76.	24.06	35.10			23.72	421.7	50.	23.80	34.92	23.66	426.3	0.222
100. ^A	23.24	35.22			24.05	390.9	75.	24.06	35.09	23.72	422.0	0.129
106.	22.92	35.22			24.14	382.3	100.	23.24	35.22	24.05	390.9	0.431
132.	21.38	35.13			24.51	348.4	150.	20.37	35.08	24.75	326.3	0.612
161.	19.70	35.04			24.89	312.8	200.	16.92	34.74	25.38	287.2	0.762
187.	17.69	34.83			25.24	280.3	250.	12.67	34.29	25.93	214.9	0.583
212.	15.98	34.65			25.50	255.4	300.	10.03	34.16	26.31	178.0	0.962
237.	13.81	34.40			25.78	228.7	400.	8.10	34.29	26.72	140.1	1.143
267.	11.39	34.19			26.09	198.9	500.	6.94	34.38	26.96	118.3	1.273
283.	10.62	34.17			26.22	187.2	600.	6.17	34.43	27.10	105.1	1.386
317.	9.58	34.17			26.39	170.5	700.	5.58	34.47	27.21	95.7	1.427
423.	7.84	34.33			26.79	133.6	800.	5.06	34.49	27.29	88.4	1.510
528.	6.68	34.39			27.00	114.2	1000.	4.29	34.53	27.41	76.0	1.749
633.	5.98	34.45			27.14	101.7	1200.	3.69	34.56	27.49	70.7	1.700
838.	4.88	34.50			27.31	86.2	1500.	3.01	34.59	27.58	61.9	2.101
1049.	4.14	34.54			27.43	76.1						
1250.	3.56	34.56			27.50	69.2						
1564.	2.90	34.60			27.60	60.4						

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 1, STATION 13, 19-6N LAT, 153-57W LONG, FEB. 21, 1964, 2300 G.C.T. DRY BULB 23.2 WET BULB 20.6 WIND SPEED 11, DIR. 08 BAR. 19 WEATHER 02								VIS. 8 CLOUD TYPE 9, COVER 3				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.76	34.62			23.45	446.9	0.	23.76	34.62	23.45	444.8	0.000
10.	23.76	34.62			23.45	445.2	10.	23.76	34.62	23.45	445.2	0.045
20.	23.73	34.63			23.46	445.1	20.	23.73	34.63	23.46	444.1	0.090
30. ^A	23.70	34.65			23.49	442.2	30.	23.70	34.65	23.49	442.2	0.135
50. ^A	23.70	34.65			23.49	442.9	50.	23.70	34.65	23.49	442.9	0.224
75. ^A	23.71	34.66			23.49	443.4	75.	23.71	34.66	23.49	443.4	0.336
86.	23.77	34.63			23.45	447.7	100.	23.78	34.66	23.47	446.4	0.448
100. ^A	23.78	34.66			23.47	446.4	150.	19.06	34.96	24.99	302.3	0.636
115.	21.06	34.60			24.19	377.7	200.	14.24	34.38	25.68	237.7	0.772
140.	19.72	34.99			24.85	316.2	250.	11.92	34.20	26.00	207.3	0.885
171.	17.32	34.73			25.25	278.5	300.	10.19	34.15	26.27	182.0	0.943
196.	14.52	34.41			25.64	241.3	400.	7.15	34.09	26.70	141.3	1.146
221.	13.14	34.29			25.83	223.1	500.	5.87	34.19	26.95	117.8	1.277
246.	12.16	34.21			25.96	211.0	600.	5.35	34.35	27.14	100.8	1.387
275.	10.63	34.16			26.21	187.9	700.	4.89	34.44	27.26	99.5	1.433
291.	10.44	34.15			26.23	185.8	800.	4.55	34.49	27.34	92.6	1.570
326.	9.32	34.14			26.41	168.7	1000.	3.97	34.53	27.44	74.0	1.729
431.	6.46	34.08			26.79	132.8	1200.	3.41	34.56	27.52	67.0	1.871
534.	5.76	34.26			27.02	111.6	1500.	2.76	34.59	27.61	58.8	2.063
640.	5.13	34.39			27.20	95.3						
844.	4.43	34.50			27.36	80.7						
1052.	3.76	34.53			27.46	72.2						
1250.	3.31	34.57			27.53	65.4						
1558.	2.66	34.60			27.62	57.5						

CROMWELL 1, STATION 14, 20-30N LAT, 154-7W LONG, FEB. 22, 1964, 0900 G.C.T. DRY BULB 22.5 WET BULB 20.8 WIND SPEED 21, DIR. 06 BAR. 20 WEATHER 21								VIS. 8 CLOUD TYPE 8, COVER S				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.69	34.61			23.46	443.6	0.	23.69	34.61	23.46	443.6	0.000
10.	23.67	34.61			23.46	443.4	10.	23.67	34.61	23.46	443.4	0.045
30. ^A	23.70	34.63			23.47	443.6	20.	23.68	34.62	23.47	443.5	0.090
50. ^A	23.70	34.64			23.48	443.6	30.	23.70	34.63	23.47	443.6	0.135
68.	23.65	34.65			23.50	442.2	50.	23.70	34.64	23.48	443.6	0.224
75. ^A	23.58	34.66			23.53	433.8	75.	23.58	34.66	23.53	439.8	0.335
95.	22.64	34.75			23.87	408.1	100.	21.85	34.73	24.07	388.6	0.460
117.	19.12	34.66			24.15	324.5	150.	17.04	34.74	25.32	271.4	0.606
142.	18.06	34.86			25.17	285.3	200.	13.25	34.30	25.82	223.9	0.731
165.	15.23	34.48			25.54	250.2	250.	10.55	34.15	26.21	186.7	0.934
185.	14.10	34.37			25.70	235.4	300.	9.47	34.17	26.41	168.4	0.924
208.	12.79	34.27			25.89	217.5	400.	6.97	34.08	26.72	139.5	1.079
232.	11.30	34.18			26.10	197.2	500.	5.63	34.17	26.97	116.2	1.208
244.	10.72	34.15			26.18	189.6	600.	5.11	34.31	27.14	100.4	1.318
273.	10.09	34.17			26.31	178.0	700.	4.80	34.42	27.26	89.9	1.414
354.	8.19	34.14			26.59	151.7	800.	4.55	34.49	27.34	82.7	1.501
433.	6.22	34.05			26.80	131.9	1000.	3.99	34.55	27.45	73.1	1.659
504.	5.61	34.18			26.98	115.3						
645.	4.96	34.36			27.19	95.4						
782.	4.60	34.48			27.33	83.6						
916.	4.22	34.51			27.40	78.0						
1158.	3.53	34.56			27.51	68.1						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.15

TEMPERATURE ERROR TERM AT 150. METERS IS 0.13

CROMWELL 1, STATION 15, 22-3N LAT, 153-58W LONG, FEB. 22, 1964, 1800 G.C.T. DRY BULB 22.5 WET BULB 19.4 WIND SPEED 20, DIR. 08 BAR. 21 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.
1.	23.60	34.74			23.58	431.8	0.	23.60	34.74	23.58	431.7	0.000
11.	23.60	34.74			23.58	432.1	10.	23.64	34.74	23.57	433.5	0.044
21.	23.64	34.74			23.57	433.6	20.	23.64	34.74	23.57	433.5	0.088
76. ^A	23.47	35.20			23.97	397.9	30.	23.65	34.81	23.62	429.1	0.131
100. ^A	23.22	35.17			24.02	394.0	50.	23.63	34.98	23.76	417.1	0.216
105.	22.88	35.14			24.09	387.0	75.	23.48	35.19	23.96	398.7	0.319
140.	21.49	35.15			24.49	350.1	100.	23.22	35.17	24.02	394.0	0.419
170.	19.94	35.07			24.85	317.0	150.	21.03	35.14	24.61	339.5	0.604
185.	18.90	34.98			25.05	298.3	200.	18.61	34.96	25.11	293.3	0.763
220.	18.04	34.89			25.20	285.3	250.	15.66	34.60	25.53	253.5	0.901
235.	16.59	34.71			25.41	265.3	300.	13.09	34.33	25.87	221.4	1.021
273.	14.63	34.48			25.67	240.7	400.	9.16	34.06	26.38	173.2	1.220
290.	13.81	34.40			25.78	230.2	500.	6.86	34.06	26.72	140.9	1.378
315.	11.97	34.22			26.01	208.4	600.	5.84	34.19	26.95	118.8	1.510
419.	8.90	34.09			26.43	168.2	700.	5.24	34.32	27.13	102.9	1.622
526.	6.36	34.07			26.79	133.5	800.	4.55	34.39	27.26	90.1	1.719
633.	5.75	34.25			27.01	113.5	1000.	3.93	34.50	27.42	75.8	1.887
832.	4.34	34.40			27.30	86.8	1200.	3.38	34.57	27.53	66.2	2.031
1034.	3.88	34.52			27.44	74.3	1500.	2.71	34.58	27.60	59.2	2.222
1226.	3.30	34.57			27.54	65.2						
1507.	2.70	34.58			27.60	59.1						

SALINITY ERROR TERM AT 50. METERS IS 0.06

TEMPERATURE ERROR TERM AT 200. METERS IS 0.23

TEMPERATURE ERROR TERM AT 400. METERS IS 0.17

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 1, STATION 16, 23-30N LAT, 154- 4W LNG, FEB. 23, 1964, 0200 G.C.T. DRY BULB 22.4 WET BULB 19.4 WIND SPEED 15, DIR. 04 BAR. 21 WEATHER 15								VIS. 8 CLOUD TYPE 6, COVER 7					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	23.20	35.07			23.95	396.8	0.	23.20	35.07	23.95	396.8	0.000	
10.	23.18	35.13			24.00	392.3	10.	23.18	35.13	24.00	392.3	0.040	
75.	23.04	35.20			24.09	385.9	20.	23.15	35.16	24.03	389.6	0.080	
105.	23.04	35.19			24.09	387.8	30.	23.13	35.19	24.06	387.5	0.119	
130.	20.96	35.10			24.60	339.5	50.	23.08	35.21	24.09	385.2	0.197	
161.	18.93	34.98			25.04	298.2	75.	23.04	35.20	24.09	385.9	0.294	
186.	17.28	34.76			25.28	275.8	100.	23.13	35.20	24.06	389.7	0.391	
211.	16.15	34.64			25.46	259.9	150.	19.62	35.03	24.91	310.9	0.568	
236.	14.70	34.50			25.67	239.6	200.	16.63	34.69	25.38	266.8	0.714	
266.	13.40	34.38			25.85	222.8	250.	14.28	34.45	25.72	235.1	0.840	
271.	12.85	34.35			25.94	214.4	300.	11.65	34.26	26.10	199.5	0.950	
317.	11.59	34.23			26.09	200.6	400.	9.57	34.12	26.35	176.0	1.139	
422.	9.06	34.10			26.42	169.3	500.	7.11	34.05	26.68	144.8	1.301	
527.	6.52	34.05			26.76	137.2	600.	5.66	34.12	26.93	121.2	1.435	
633.	5.41	34.17			26.99	115.0	700.	4.99	34.24	27.09	105.4	1.550	
839.	4.42	34.36			27.25	90.8	800.	4.54	34.33	27.22	94.2	1.651	
1049.	3.74	34.50			27.44	74.2	1000.	3.87	34.47	27.40	77.2	1.824	
1251.	3.36	34.53			27.50	69.0	1200.	3.44	34.53	27.49	69.9	1.973	
1561.	2.72	34.59			27.61	59.0	1500.	2.82	34.59	27.59	60.0	2.171	

TEMPERATURE ERROR TERM AT 250+ METERS IS 0.16

TEMPERATURE ERROR TERM AT 300+ METERS IS 0.26

CROMWELL 1, STATION 17, 23-30N LAT, 150-59W LONG, FEB. 23, 1964, 1900 G.C.T. DRY BULB 21.5 WET BULB 17.9 WIND SPEED 17, DIR. 08 BAR. 24 WEATHER 15												VIS. 6	CLOUD TYPE 5, COVER 4
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OBSERVED DATA REJECTED DUE TO EQUIPMENT FAILURE

CROMWELL 1, STATION 18, 22- ON LAT, 151- 0W LNG, FEB. 24, 1964, 0400 G.C.T. DRY BULB 22.2 WET BULB 19.6 WIND SPEED 06, DIR. 05 BAR. 21 WEATHER 15				VIS. 8 CLOUD TYPE 8, COVER 5									
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	23.07	34.70			23.71	419.9	0.	23.07	34.70	23.71	419.9	0.000	
10.	23.08	34.70			23.70	420.6	10.	23.08	34.70	23.70	420.6	0.043	
51.	23.12	34.78			23.75	417.5	20.	23.10	34.69	23.69	422.0	0.085	
76.	23.04	35.04			23.97	397.5	30.	23.11	34.70	23.70	422.0	0.128	
106.	22.14	35.13			24.30	367.6	50.	23.12	34.77	23.75	417.8	0.212	
131.	20.88	35.12			24.64	336.0	75.	23.05	35.03	23.96	398.4	0.315	
161.	19.57	35.05			24.93	308.9	100.	22.38	35.13	24.23	374.2	0.412	
186.	18.54	34.92			25.10	293.9	150.	20.03	35.08	24.84	317.6	0.587	
211.	17.28	34.77			25.29	275.9	200.	17.84	34.84	25.20	283.8	0.738	
237.	16.04	34.61			25.46	260.4	250.	14.87	34.46	25.61	246.2	0.872	
265.	13.48	34.31			25.76	229.5	300.	11.61	34.18	26.05	204.3	0.946	
280.	12.53	34.25			25.92	215.8	400.	8.37	34.06	26.51	160.7	1.170	
315.	11.06	34.14			26.12	197.8	500.	6.35	34.10	26.82	130.8	1.317	
418.	7.93	34.07			26.58	154.1	600.	5.44	34.23	27.03	110.7	1.439	
523.	6.04	34.12			26.87	125.5	700.	4.99	34.36	27.19	96.6	1.544	
627.	5.32	34.27			27.08	106.4	800.	4.65	34.45	27.30	86.6	1.636	
827.	4.58	34.47			27.32	84.5	1000.	4.06	34.52	27.42	76.3	1.801	
1028.	3.98	34.52			27.43	75.4	1200.	3.53	34.56	27.50	68.7	1.948	
1220.	3.48	34.56			27.51	68.0	1500.	2.88	34.59	27.59	60.6	2.144	
1522.	2.84	34.59			27.59	60.2							

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		1, STATION	19, 20-30N LAT, 151- 0W LONG, FEB. 24, 1964, 1400 G.C.T.							VIS. 8	CLOUD TYPE 8, COVER 1		
DRY BULB 22.3		WET BULB 18.5	WIND SPEED 15, DIR. 09	BAR. 20		WEATHER 02							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.06	34.73		23.73	417.5	0.	23.06	34.73	23.73	417.5	0.000		
10.	23.08	34.72		23.72	419.1	10.	23.08	34.72	23.72	419.1	0.042		
73.	23.08	34.74		23.73	420.1	20.	23.09	34.71	23.71	420.3	0.084		
101.	23.08	34.81		23.79	416.1	30.	23.09	34.71	23.71	421.1	0.127		
125.	22.26	35.09		24.23	374.5	50.	23.09	34.71	23.71	421.5	0.212		
153.	21.22	35.15		24.57	343.5	75.	23.10	34.74	23.73	420.7	0.318		
178.	19.64	35.04		24.91	311.9	100.	23.09	34.80	23.78	416.7	0.423		
201.	18.50	34.90		25.09	294.9	150.	21.35	35.16	24.54	346.5	0.615		
225.	16.58	34.65		25.36	269.1	200.	18.55	34.91	25.08	295.6	0.777		
254.	14.12	34.37		25.69	237.7	250.	14.46	34.40	25.65	242.0	0.913		
268.	12.98	34.27		25.85	222.7	300.	11.20	34.18	26.12	197.0	1.024		
301.	11.16	34.18		26.13	196.3	400.	8.37	34.13	26.56	155.9	1.202		
400.	8.37	34.13		26.56	155.9	500.	6.51	34.17	26.85	127.7	1.345		
497.	6.56	34.17		26.85	128.4	600.	5.77	34.29	27.04	110.2	1.465		
536.*	6.06*	34.20		26.93	120.0	700.	5.33	34.39	27.18	98.3	1.570		
598.	5.78	34.29		27.04	110.5	800.	4.94	34.45	27.27	89.8	1.665		
792.	4.96	34.45		27.27	90.4	1000.	4.35	34.51	27.38	80.4	1.838		
994.	4.37	34.51		27.38	80.4								
1000.**	4.35**	34.51**		27.38	80.4								

CROMWELL		1, STATION	20, 18-57N LAT, 151- 0W LONG, FEB. 24, 1964, 2300 G.C.T.							VIS. 9	CLOUD TYPE 8, COVER 1		
DRY BULB 23.2		WET BULB 19.7	WIND SPEED 22, DIR. 07	BAR. 21		WEATHER 02							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.38	34.73		23.64	426.3	0.	23.38	34.73	23.64	426.3	0.000		
10.	23.37	34.73		23.64	426.4	10.	23.37	34.73	23.64	426.4	0.043		
20.	23.35	34.74		23.66	425.5	20.	23.35	34.74	23.66	425.5	0.086		
50.*	23.10	34.86		23.82	411.1	30.	23.27	34.78	23.71	420.8	0.129		
75.*	23.10	34.87		23.83	411.3	50.	23.10	34.86	23.82	411.1	0.213		
113.*	21.43	35.16		24.52	346.8	75.	23.10	34.87	23.83	411.3	0.316		
138.*	20.20	35.13		24.83	318.1	100.	22.13	35.06	24.25	371.8	0.415		
167.	19.44	35.09		25.00	302.9	150.	19.87	35.12	24.91	310.8	0.587		
192.	18.44	34.96		25.15	288.8	200.	17.65	34.85	25.26	278.7	0.736		
216.	15.90	34.60		25.48	257.4	250.	13.25	34.30	25.82	225.7	0.863		
242.	13.66	34.34		25.77	230.3	300.	10.54	34.16	26.22	186.8	0.967		
271.	12.22	34.22		25.96	212.0	400.	7.57	34.09	26.64	147.1	1.135		
286.	11.10	34.17		26.13	195.6	500.	6.38	34.22	26.91	122.0	1.271		
320.	10.04	34.17		26.32	176.2	600.	6.08	34.39	27.08	107.2	1.387		
412.	7.26	34.08		26.68	143.5	700.	5.61	34.46	27.20	97.0	1.490		
524.	6.32	34.28		26.96	117.4	800.	5.02	34.48	27.28	88.9	1.584		
627.	6.02	34.42		27.11	104.4	1000.	4.21	34.51	27.40	78.4	1.753		
825.	4.86	34.48		27.30	87.3	1200.	3.58	34.55	27.49	70.0	1.903		
1031.	4.12	34.52		27.41	77.1	1500.	2.96	34.59	27.59	61.7	2.104		
1227.	3.50	34.55		27.50	69.0								
1534.	2.91	34.59		27.59	61.1								

CROMWELL		1, STATION	21, 17-29N LAT, 151- 0W LONG, FEB. 25, 1964, 0900 G.C.T.							VIS. 9	CLOUD TYPE 8, COVER 2		
DRY BULB 23.1		WET BULB 19.6	WIND SPEED 15, DIR. 06	BAR. 20		WEATHER 02							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.22	34.48		23.50	439.9	0.	23.22	34.48	23.50	439.9	0.000		
9.	23.19	34.48		23.51	439.5	10.	23.19	34.48	23.51	439.6	0.045		
44.*	23.16	34.56		23.57	434.2	20.	23.19	34.48	23.51	439.6	0.089		
50.*	23.12	34.60		23.62	430.4	30.	23.18	34.50	23.53	438.3	0.133		
66.	23.36	34.80		23.70	423.2	50.	23.12	34.60	23.62	430.4	0.221		
75.*	23.40	34.82		23.70	423.3	75.	23.40	34.82	23.70	423.3	0.328		
93.	22.86	34.86		23.89	406.1	100.	22.53	34.92	24.03	393.2	0.431		
115.	21.66	35.02		24.35	363.1	150.	19.30	34.86	24.86	315.3	0.610		
141.	19.84	34.90		24.75	325.8	200.	14.88	34.42	25.57	248.3	0.752		
163.	18.44	34.79		25.02	300.2	250.	11.42	34.23	26.12	196.0	0.864		
184.	16.55	34.59		25.32	271.6	300.	9.51	34.24	26.46	164.0	0.954		
205.	14.37	34.37		25.64	241.4	400.	7.16	34.20	26.79	133.1	1.104		
230.	12.42	34.23		25.93	214.0	500.	6.63	34.35	26.98	115.7	1.230		
242.	11.74	34.22		26.05	202.4	600.	6.04	34.42	27.11	104.7	1.341		
272.	10.72	34.28		26.28	180.6	700.	5.65	34.45	27.19	98.0	1.444		
356.	7.48	34.13		26.69	142.1	1000.	5.13	34.49	27.28	89.3	1.538		
440.	7.16	34.29		26.86	127.0	1200.	4.25	34.51	27.39	79.1	1.709		
520.	6.44	34.37		27.02	112.3	1200.	3.63	34.55	27.49	70.1	1.860		
723.	5.58	34.46		27.20	96.8								
842.	4.89	34.51		27.32	85.6								
1002.	4.24	34.51		27.39	79.1								
1256.	3.52	34.56		27.51	68.8								

TEMPERATURE ERROR TERM AT 300. METERS IS 0.13
 TEMPERATURE ERROR TERM AT 400. METERS IS 0.14

*FROM BT DATA
 **INTERPOLATED VALUE
 ***EXTRAPOLATED VALUE

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL DRY BULB 23.2		1, STATION 22, 15-55N LAT, 151- 9W LONG, FEB. 25, 1964, 1800 G.C.T. WET BULB 20.8 WIND SPEED 25, DIR. 05 BAR. 17 WEATHER 02			VIS. 6 CLOUD TYPE 8, COVER 3								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.54	34.42			23.36	453.1	0.	23.54	34.42	23.36	453.1	0.000	
10.	23.50	34.40			23.36	453.8	10.	23.50	34.40	23.36	453.8	0.046	
30. ^A	23.49	34.42			23.37	452.9	20.	23.49	34.41	23.36	453.5	0.092	
50. ^A	23.49	34.42			23.37	453.6	30.	23.49	34.42	23.37	452.9	0.138	
70.	23.50	34.41			23.36	455.6	50.	23.49	34.42	23.37	453.6	0.229	
103.	21.66	34.58			24.01	394.4	75.	23.47	34.42	23.38	454.4	0.343	
127.	18.51	34.60			24.86	314.4	100.	21.95	34.56	23.92	403.3	0.451	
157.	15.36	34.41			25.46	257.8	150.	16.09	34.47	25.34	269.2	0.621	
181.	12.34	34.23			25.95	211.3	200.	11.34	34.15	26.07	199.4	0.739	
206.	11.16	34.14			26.10	197.1	250.	10.11	34.29	26.40	169.0	0.832	
230.	10.28	34.20			26.30	178.1	300.	9.34	34.44	26.64	146.7	0.911	
259.	10.10	34.34			26.44	165.4	400.	7.66	34.42	26.89	124.1	1.048	
274.	9.95	34.43			26.54	156.6	500.	6.87	34.47	27.04	110.4	1.166	
308.	9.12	34.42			26.67	145.5	600.	5.99	34.47	27.15	100.3	1.273	
411.	7.54	34.42			26.91	122.4	700.	5.30	34.47	27.24	91.9	1.370	
515.	6.78	34.48			27.06	108.8	800.	4.82	34.50	27.32	66.8	1.459	
619.	5.82	34.46			27.17	98.7	1000.	4.05	34.54	27.43	74.8	1.621	
820.	4.74	34.51			27.34	83.5	1200.	3.48	34.58	27.52	66.7	1.764	
1029.	3.96	34.54			27.45	73.7	1500.	2.77	34.61	27.61	57.9	1.953	
1217.	3.44	34.58			27.53	66.0							
1536.	2.70	34.61			27.62	57.1							

CROMWELL DRY BULB 24.3					1, STATION 23, 14-29N LAT, 151- 1W LONG, FEB. 26, 1964, 0300 G.C.T. WET BULB 22.2 WIND SPEED 25, DIR. 06 BAR. 14 WEATHER 03			VIS. 6 CLOUD TYPE 0, COVER 8					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.50	34.33			23.01	486.7	0.	24.50	34.33	23.01	486.7	0.000	
10.	24.53	34.35			23.01	486.5	10.	24.53	34.35	23.01	486.5	0.050	
30. ^A	24.52	34.34			23.01	487.7	20.	24.53	34.35	23.01	487.0	0.099	
50. ^A	24.52	34.34			23.01	488.5	30.	24.52	34.34	23.01	487.7	0.148	
75. ^A	24.52	34.34			23.01	489.4	50.	24.52	34.34	23.01	489.5	0.246	
100. ^A	21.60	34.51			23.98	397.8	75.	24.52	34.34	23.01	489.4	0.369	
103.	20.44	34.52			24.30	367.1	100.	21.60	34.51	23.98	397.8	0.481	
129.	17.54	34.47			25.00	301.1	150.	14.60	34.35	25.57	246.3	0.643	
158.	13.59	34.31			25.76	229.8	200.	11.66	34.46	26.26	192.2	0.751	
184.	12.10	34.39			26.12	195.2	250.	11.10	34.68	26.53	157.2	0.837	
207.	11.55	34.50			26.30	177.6	300.	10.25	34.67	26.67	144.7	0.913	
232.	11.28	34.64			26.46	163.1	400.	8.77	34.61	26.97	126.9	1.050	
262.	10.95	34.69			26.56	154.3	500.	7.68	34.55	26.99	116.3	1.173	
276.	10.68	34.68			26.60	150.6	600.	6.85	34.51	27.08	108.5	1.286	
312.	10.04	34.66			26.70	142.0	700.	6.14	34.51	27.17	100.3	1.392	
414.	8.60	34.60			26.89	125.1	800.	5.53	34.52	27.26	92.4	1.489	
518.	7.51	34.54			27.01	114.8	1000.	4.68	34.56	27.38	81.1	1.565	
623.	6.68	34.51			27.10	106.8	1200.	3.97	34.57	27.47	73.2	1.621	
825.	5.40	34.53			27.28	90.5							
1013.	4.64*	34.56			27.39	80.5							
1035.	4.56	34.56			27.40	79.7							
1223.	3.89	34.57			27.48	72.3							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

CROMWELL DRY BULB 24.0					1, STATION 24, 13- ON LAT, 151- 0W LONG, FEB. 26, 1964, 1300 G.C.T. WET BULB 22.0 WIND SPEED 18, DIR. 06 BAR. 14 WEATHER 00			VIS. 6 CLOUD TYPE 0, COVER 0					
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.47	34.18			22.90	496.7	0.	24.47	34.18	22.90	496.7	0.000	
9. ^A	24.45	34.18			22.91	496.4	10.	24.45	34.18	22.91	496.5	0.051	
30. ^A	24.46	34.18			22.91	497.5	20.	24.45	34.18	22.91	496.9	0.101	
50. ^A	24.46	34.18			22.91	498.3	30.	24.46	34.18	22.91	497.5	0.151	
77.	24.47	34.17			22.90	500.3	50.	24.46	34.18	22.91	498.3	0.211	
104.	20.04	34.55			24.43	354.8	75.	24.55	34.16	22.87	502.8	0.377	
127.	17.98	34.62			25.01	300.4	100.	20.77	34.49	24.19	377.4	0.488	
154.	13.84	34.36			25.75	230.0	150.	14.44	34.40	25.65	238.9	0.643	
177.	12.16	34.32			26.05	201.2	200.	11.45	34.55	26.36	172.1	0.747	
198.	11.46	34.53			26.34	173.6	250.	10.81	34.68	26.58	152.0	0.828	
221.	11.38	34.68			26.48	161.7	300.	10.14	34.66	26.69	143.1	0.903	
247.	10.82	34.68			26.58	152.4	400.	8.90	34.61	26.85	129.1	1.040	
260.	10.77	34.69			26.59	151.1	500.	7.79	34.55	26.97	117.8	1.165	
290.	10.28	34.67			26.67	144.8	600.	6.92	34.53	27.08	108.1	1.279	
381.	9.14	34.62			26.82	131.5	700.	6.16	34.52	27.18	99.7	1.384	
472.	8.06	34.56			26.94	120.8	800.	5.51	34.52	27.25	92.7	1.481	
560.	7.26	34.54			27.04	111.9	1000.	4.54	34.54	27.39	80.5	1.657	
738.	5.90	34.52			27.21	96.9	1200.	3.84	34.57	27.48	71.7	1.811	
920.	4.87	34.52			27.33	85.5							
1093.	4.22	34.57			27.44	75.3							
1314.	3.56	34.58			27.52	68.2							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.14

^AFROM BT DATA
*INTERPOLATED VALUE

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA				INTERPOLATED DATA				
CROMWELL	1, STATION	25, 11-35N LAT, 150-59W LONG, FEB. 26, 1964, 2200 G.C.T.	DRY BULB 25.5	WET BULB 23.0	WIND SPEED 22, DIR. 06	BAR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 6, COVER 8	DETA	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DETA	DYN.DPTH.		
1.	25.33	34.25		22.70	516.5	0.	25.33	34.25	22.70	516.4	0.000		
10.	25.39	34.25		22.68	519.6	10.	25.39	34.25	22.68	518.6	0.053		
30. ^Δ	25.39	34.25		22.68	519.4	20.	25.40	34.25	22.67	519.3	0.105		
49.	25.38	34.25		22.68	519.8	30.	25.39	34.25	22.68	519.4	0.157		
74.	18.11	34.50		24.88	310.4	50.	25.14	34.26	22.76	512.2	0.261		
103.	13.18	34.53		26.01	203.2	75.	17.88	34.50	24.94	304.9	0.364		
127.	11.84	34.71		26.41	165.5	100.	13.52	34.53	25.94	209.9	0.429		
156.	11.26	34.75		26.55	152.9	150.	11.32	34.75	26.54	153.7	0.520		
182.	11.00	34.75		26.60	148.9	200.	10.78	34.74	26.63	146.0	0.596		
205.	10.72	34.74		26.64	145.3	250.	10.32	34.73	26.71	140.0	0.668		
230.	10.54	34.73		26.67	143.5	300.	9.91	34.71	26.76	135.5	0.738		
258.	10.22	34.73		26.72	138.7	400.	9.09	34.67	26.86	127.6	0.870		
273.	10.06	34.71		26.73	137.8	500.	8.11	34.63	26.98	117.2	0.994		
308.	9.88	34.72		26.77	134.8	600.	7.17	34.57	27.08	109.1	1.108		
410.	8.99	34.66		26.87	126.8	700.	6.34	34.54	27.17	100.9	1.214		
513.	7.98	34.62		27.00	115.9	800.	5.63	34.54	27.26	92.6	1.312		
615.	7.04	34.56		27.09	108.1	1000.	4.65	34.56	27.39	80.8	1.488		
817.	5.52	34.54		27.27	91.3	1200.	3.96	34.58	27.48	72.4	1.643		
1025.	4.56	34.56		27.40	79.6	1500.	3.14	34.61	27.58	62.5	1.848		
1223.	3.89	34.58		27.49	71.6								
1532.	3.08	34.61		27.59	61.7								

CROMWELL	1, STATION	26, 10- IN LAT, 148- 1W LONG, FEB. 27, 1964, 1900 G.C.T.	DRY BULB 26.5	WET BULB 23.5	WIND SPEED 15, DIR. 08	BAR. 15	WEATHER 01	VIS. 6	CLOUD TYPE 8, COVER 7	DETA	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DETA	DYN.DPTH.
0. ^Δ	25.62	34.26		22.61	524.2	0.	25.62	34.26	22.61	524.2	0.000
10.	25.62	34.26		22.61	524.6	10.	25.62	34.26	22.61	524.6	0.053
19.	25.61	34.25		22.61	525.4	20.	25.61	34.25	22.61	525.4	0.106
30. ^Δ	25.60	34.25		22.61	525.5	30.	25.60	34.25	22.61	525.5	0.159
50. ^Δ	25.58	34.26		22.63	525.0	50.	25.58	34.26	22.63	525.0	0.265
57.	21.12	34.46		24.07	387.3	75.	16.00	34.44	25.34	267.0	0.365
75. ^Δ	16.00	34.44		25.34	267.0	100.	12.36	34.57	26.20	185.0	0.422
80.	14.63	34.40		25.61	241.0	150.	11.32	34.75	26.55	153.3	0.507
109.	12.22	34.69		26.33	173.5	200.	10.66	34.74	26.66	143.9	0.582
132.	11.65	34.75		26.48	159.2	250.	10.14	34.72	26.73	137.5	0.653
161.	11.15	34.75		26.57	151.0	300.	9.77	34.70	26.78	134.2	0.721
185.	10.86	34.75		26.63	146.5	400.	8.94	34.65	26.88	126.2	0.853
208.	10.56	34.74		26.67	142.6	500.	7.90	34.60	27.00	115.7	0.975
232.	10.30	34.73		26.71	139.5	600.	7.02	34.56	27.09	107.4	1.087
261.	10.05	34.72		26.74	136.6	700.	6.31	34.55	27.18	99.9	1.192
275.	9.94	34.71		26.76	135.8	800.	5.72	34.55	27.25	93.1	1.290
308.	9.72	34.70		26.78	133.6	1000.	4.80	34.56	27.37	82.4	1.467
407.	8.87	34.65		26.88	125.5						
508.	7.82	34.60		27.01	114.9						
608.	6.96	34.56		27.10	106.8						
804.	5.70	34.55		27.26	92.8						
1004.	4.78	34.56		27.37	82.3						
1195.	4.02	34.57		27.46	73.7						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.27

CROMWELL	1, STATION	27, 11-30N LAT, 148- 2W LONG, FEB. 28, 1964, 0700 G.C.T.	DRY BULB 25.0	WET BULB 22.4	WIND SPEED 30, DIR. 08	BAR. 15	WEATHER 15	VIS. 7	CLOUD TYPE 6, COVER 8	DETA	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DETA	DYN.DPTH.
0.	24.96	34.33		22.87	499.9	0.	24.96	34.33	22.87	499.9	0.000
9.	24.94	34.34		22.88	499.0	10.	24.94	34.34	22.88	498.9	0.051
30. ^Δ	24.92	34.35		22.90	498.5	20.	24.93	34.35	22.89	498.6	0.101
50. ^Δ	24.88	34.35		22.91	498.1	30.	24.92	34.35	22.90	498.5	0.151
64.	19.96	34.67		24.54	342.7	50.	24.88	34.35	22.91	498.1	0.252
75. ^Δ	18.18	34.60		24.94	304.8	75.	18.18	34.60	24.94	304.8	0.353
89.	15.15	34.44		25.5	249.2	100.	13.40	34.44	25.90	214.0	0.418
110.	12.33	34.50		26.16	189.5	150.	11.57	34.77	26.51	156.9	0.512
134.	11.94	34.75		26.43	164.6	200.	10.94	34.75	26.61	148.3	0.589
156.	11.44	34.76		26.53	155.3	250.	10.43	34.74	26.69	141.6	0.662
177.	11.20	34.75		26.56	152.3	300.	9.96	34.72	26.76	136.1	0.732
198.	10.96	34.75		26.61	148.6	400.	9.23	34.68	26.85	129.0	0.865
223.	10.71	34.74		26.64	145.5	500.	8.37	34.63	26.95	121.1	0.992
236.	10.58	34.74		26.67	143.6	600.	7.40	34.58	27.05	111.6	1.109
266.	10.26	34.73		26.72	139.5	700.	6.53	34.55	27.15	102.6	1.217
354.	9.56	34.70		26.81	131.9	800.	5.84	34.55	27.24	94.6	1.317
442.	8.92	34.66		26.88	126.3	1000.	4.83	34.57	27.37	82.4	1.496
531.	8.06	34.61		26.98	118.2	1200.	4.07	34.58	27.47	73.7	1.654
708.	6.46	34.55		27.16	102.0						
894.	5.32	34.56		27.31	88.1						
1075.	4.53	34.57		27.41	79.0						
1373.	3.64	34.59		27.52	68.9						

^ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 1, STATION 28, 13- ON LAT, 148- 7W LONG, FEB. 28, 1964, 1900 G.C.T.				WIND SPEED 25, DIR. 02 BAR. 18 WEATHER 02				VIS. 7 CLOUD TYPE 4, COVER 5				
DRY BULB 24.0	WET BULB 21.5											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
1.	24.15	34.29		23.08	479.7	0.	24.15	34.29	23.08	479.7	0.000	
10.	24.14	34.29		23.08	479.7	10.	24.14	34.29	23.09	479.5	0.049	
30. ^A	24.12	34.30		23.10	479.2	20.	24.13	34.29	23.09	479.5	0.097	
50.	24.12	34.32		23.11	478.5	30.	24.12	34.32	23.10	479.2	0.145	
76.	23.22	34.48		23.50	442.8	50.	24.12	34.32	23.11	478.5	0.242	
106.	16.74	34.50		25.21	279.9	75.	23.30	34.47	23.47	445.6	0.358	
131.	14.38	34.40		25.66	237.4	100.	18.11	34.51	24.89	310.6	0.454	
161.	11.62	34.32		26.15	191.0	150.	12.46	34.33	26.00	205.6	0.584	
186.	11.54	34.51		26.31	176.2	200.	11.35	34.60	26.42	166.7	0.677	
211.	11.20	34.65		26.49	160.4	250.	10.94	34.70	26.57	152.8	0.758	
236.	11.13	34.70		26.54	156.1	300.	10.54	34.71	26.65	146.9	0.834	
266.	10.73	34.70		26.61	149.8	400.	9.23	34.65	26.83	130.9	0.974	
281.	10.67	34.70		26.62	149.1	500.	7.99	34.57	26.96	119.7	1.100	
317.	10.39	34.71		26.68	144.3	600.	6.96	34.53	27.08	108.8	1.216	
421.	8.90	34.63		26.86	127.8	700.	6.11	34.52	27.18	99.1	1.321	
526.	7.72	34.55		26.98	117.4	800.	5.44	34.52	27.26	91.6	1.417	
632.	6.66	34.53		27.12	105.1	1000.	4.46	34.54	27.39	79.5	1.590	
837.	5.23	34.52		27.29	89.2	1200.	3.76	34.58	27.50	69.7	1.741	
1047.	4.28	34.55		27.42	77.1	1500.	3.01	34.61	27.59	60.9	1.940	
1247.	3.62	34.59		27.52	67.7							
1558.	2.92	34.61		27.60	59.9							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.26
 TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

CROMWELL 1, STATION 29, 14-30N LAT, 148- 5W LONG, FEB. 29, 1964, 0400 G.C.T.				WIND SPEED 26, DIR. 08 BAR. 17 WEATHER 02				VIS. 6 CLOUD TYPE 4, COVER 4				
DRY BULB 24.1	WET BULB 21.2											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.64	34.23		23.19	469.6	0.	23.64	34.23	23.18	470.3	0.048	
10.	23.65	34.23		23.18	470.3	10.	23.65	34.23	23.18	470.8	0.095	
30. ^A	23.65	34.23		23.18	471.1	20.	23.65	34.23	23.18	471.1	0.143	
50. ^A	23.64	34.25		23.20	470.1	30.	23.65	34.23	23.20	470.1	0.237	
75.	20.74	34.72		24.37	359.3	50.	23.64	34.25	24.37	359.3	0.342	
104.	18.84	34.89		25.00	300.5	75.	20.74	34.72	24.93	306.7	0.426	
129.	15.11	34.40		25.50	252.5	100.	19.13	34.90	24.93	306.7	0.426	
153.	12.48	34.40		26.05	200.7	150.	12.74	34.38	25.99	206.6	0.555	
183.	11.64	34.55		26.33	175.0	200.	11.32	34.63	26.45	164.0	0.649	
207.	11.22	34.65		26.48	160.7	250.	10.63	34.62	26.57	153.3	0.729	
233.	10.91	34.63		26.52	157.3	300.	10.12	34.65	26.68	143.5	0.803	
263.	10.45	34.63		26.60	150.0	400.	8.97	34.62	26.84	129.4	0.941	
277.	10.36	34.65		26.64	147.3	500.	7.83	34.57	26.98	117.1	1.066	
312.	9.98	34.65		26.70	141.7	600.	6.90	34.54	27.09	107.1	1.179	
415.	8.80	34.61		26.86	127.5	700.	6.14	34.53	27.19	98.8	1.233	
521.	7.60	34.56		27.01	114.8	800.	5.51	34.53	27.26	91.8	1.379	
624.	6.71	34.54		27.12	105.0	1000.	4.66	34.55	27.38	81.8	1.555	
828.	5.36	34.53		27.28	90.0	1200.	3.95	34.57	27.47	72.5	1.711	
1036.	4.54	34.55		27.39	80.2	1500.	3.08	34.60	27.58	62.4	1.916	
1234.	3.84	34.58		27.49	71.0							
1543.	2.97	34.60		27.59	61.1							

CROMWELL 1, STATION 30, 16- ON LAT, 147-58W LONG, FEB. 29, 1964, 1500 G.C.T.				WIND SPEED 30, DIR. 09 BAR. 17 WEATHER 50				VIS. 6 CLOUD TYPE 5, COVER 5				
DRY BULB 23.0	WET BULB 20.3											
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.
0.	23.45	34.34		23.32	456.4	0.	23.45	34.34	23.33	456.5	0.046	
10.	23.44	34.34		23.33	456.5	10.	23.44	34.34	23.33	457.0	0.092	
49.	23.45	34.34		23.32	458.3	20.	23.44	34.34	23.33	457.4	0.139	
75.	23.46	34.36		23.34	458.1	30.	23.44	34.34	23.32	459.1	0.231	
104.	20.84	34.82		24.42	355.7	50.	23.47	34.36	23.34	458.1	0.346	
128.	19.74	34.88		24.76	324.2	75.	23.46	34.36	24.26	370.6	0.451	
157.	17.70	34.78		25.20	283.2	100.	21.24	34.76	24.26	370.6	0.451	
181.	15.48	34.52		25.51	253.1	150.	18.26	34.82	25.09	293.0	0.618	
205.	12.78	34.23		25.86	220.2	200.	13.32	34.28	25.79	226.7	0.749	
231.	10.96	34.18		26.16	191.2	250.	10.77	34.35	26.33	175.8	0.950	
259.	10.75	34.43		26.40	169.8	300.	9.77	34.46	26.59	151.6	0.933	
275.	10.24	34.43		26.49	161.4	400.	8.37	34.51	26.86	127.8	1.074	
309.	9.65	34.48		26.62	148.7	500.	7.44	34.52	27.00	115.1	1.197	
412.	8.23	34.51		26.88	126.0	600.	6.77	34.53	27.10	106.4	1.308	
516.	7.33	34.52		27.02	113.7	700.	6.11	34.53	27.19	98.8	1.412	
625.	6.62	34.53		27.12	104.5	800.	5.49	34.52	27.26	92.0	1.508	
821.	5.36	34.52		27.27	90.7	1000.	4.55	34.54	27.38	81.0	1.664	
1028.	4.44	34.54		27.40	79.6	1200.	3.84	34.57	27.48	71.8	1.838	
1227.	3.76	34.57		27.49	70.7	1500.	3.10	34.60	27.58	62.1	2.042	
1536.	3.04	34.61		27.59	61.2							

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 1, STATION 31, 17-30N LAT, 148- OW LONG, MAR. 1, 1964, 0000 G.C.T.				WET BULB 19.4 WIND SPEED 24, DIR. 08 BAR. 19 WEATHER 02				VIS. 7 CLOUD TYPE 2, COVER 7					
DRY BULB 22.5													
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
C.	23.32	34.32			23.35	454.2	0.	23.32	34.32	23.35	454.2	0.000	
10.	23.31	34.31			23.34	455.1	10.	23.31	34.31	23.34	455.1	0.046	
30. ^A	23.31	34.32			23.35	455.1	20.	23.31	34.31	23.35	455.2	0.092	
50. ^A	23.30	34.32			23.35	455.6	30.	23.31	34.32	23.35	455.1	0.138	
76.	23.28	34.34			23.37	454.6	50.	23.30	34.32	23.35	455.6	0.230	
100. ^A	23.00	34.55			23.61	432.6	75.	23.28	34.34	23.37	454.8	0.344	
107.	22.18	34.72			23.98	398.3	100.	23.00	34.55	23.61	432.6	0.456	
131.	19.84	34.72			24.61	338.4	150.	17.83	34.57	25.00	301.3	0.641	
161.	16.62	34.47			25.22	281.1	200.	12.84	34.33	25.92	213.9	0.771	
187.	13.65	34.36			25.78	227.1	250.	10.43	34.33	26.38	171.2	0.868	
212.	12.26	34.31			26.02	204.7	300.	9.96	34.49	26.58	152.6	0.950	
237.	10.85	34.29			26.27	181.4	400.	8.50	34.50	26.82	130.9	1.093	
267.	10.16	34.41			26.48	161.4	500.	7.33	34.47	26.98	117.0	1.218	
282.	10.14	34.46			26.53	157.7	600.	6.44	34.46	27.09	107.1	1.331	
318.	9.70	34.51			26.64	147.5	700.	5.75	34.46	27.18	98.8	1.435	
422.	8.18	34.48			26.86	127.6	800.	5.23	34.49	27.26	91.3	1.531	
528.	7.07	34.47			27.01	113.8	1000.	4.42	34.53	27.39	79.7	1.704	
633.	6.18	34.45			27.12	104.4	1200.	3.88	34.56	27.47	73.0	1.859	
840.	5.06	34.50			27.29	88.5	1500.	3.05	34.60	27.58	61.8	2.064	
1050.	4.26	34.54			27.41	77.6							
1251.	3.76	34.56			27.48	71.7							
1563.	2.90	34.61			27.60	59.7							
CROMWELL 1, STATION 32, 19- ON LAT, 148- OW LONG, MAR. 1, 1964, 1100 G.C.T.				WET BULB 19.7 WIND SPEED 25, DIR. 09 BAR. 22 WEATHER 50				VIS. 7 CLOUD TYPE 5, COVER 8					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	22.67	34.79			23.89	402.5	0.	22.67	34.79	23.89	402.5	0.000	
10.	22.68	34.78			23.88	403.9	10.	22.68	34.78	23.88	403.9	0.041	
30. ^A	22.68	34.79			23.89	403.9	20.	22.68	34.78	23.89	404.1	0.082	
50.	22.68	34.79			23.89	404.7	30.	22.68	34.79	23.89	403.9	0.122	
76.	22.86	34.93			23.94	400.5	50.	22.68	34.79	23.89	404.7	0.204	
106.	22.84	34.90			23.92	403.2	75.	22.85	34.92	23.94	400.6	0.305	
130.	21.53	35.14			24.47	351.5	100.	22.93	34.90	23.90	405.4	0.407	
161.	20.14	35.12			24.84	318.1	150.	20.64	35.16	24.73	327.6	0.592	
186.	18.72	34.97			25.09	294.6	200.	17.71	34.82	25.22	282.2	0.745	
211.	16.87	34.69			25.33	272.3	250.	13.85	34.32	25.71	235.9	0.876	
236.	14.95	34.46			25.59	247.8	300.	11.01	34.25	26.21	188.3	0.933	
266.	12.71	34.21			25.86	221.8	400.	9.34	34.49	26.68	144.9	1.151	
281.	11.89	34.22			26.03	205.9	500.	8.12	34.48	26.87	128.3	1.289	
316.	10.42	34.29			26.35	175.7	600.	6.94	34.43	27.00	115.9	1.412	
420.	9.29	34.52			26.72	142.1	700.	6.08	34.44	27.12	104.7	1.524	
525.	7.76	34.45			26.90	125.3	800.	5.40	34.47	27.23	94.9	1.624	
631.	6.65	34.43			27.04	112.4	1000.	4.41	34.51	27.38	81.1	1.803	
836.	5.20	34.48			27.26	91.7	1200.	3.78	34.56	27.48	71.6	1.957	
1046.	4.24	34.52			27.40	78.8	1500.	2.98	34.60	27.59	61.3	2.159	
1247.	3.66	34.57			27.50	69.7							
1558.	2.87	34.60			27.60	60.0							

TEMPERATURE ERROR TERM AT 400. METERS IS 0.13

CROMWELL 1, STATION 33, 20-34N LAT, 147-59W LONG, MAR. 1, 1964, 2200 G.C.T.				WET BULB 18.2 WIND SPEED 33, DIR. 09 BAR. 23 WEATHER 02				VIS. 6 CLOUD TYPE 6, COVER 8					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.65	34.86			23.95	396.9	0.	22.65	34.86	23.95	396.9	0.000	
10.	22.64	34.85			23.94	397.7	10.	22.64	34.85	23.94	397.7	0.041	
50. ^A	22.63	35.00			24.06	388.1	20.	22.64	34.87	23.96	396.3	0.091	
74.	22.62	35.09			24.13	382.3	30.	22.63	34.91	23.99	394.2	0.120	
103.	22.40	35.13			24.22	374.5	50.	22.63	35.00	24.06	388.1	0.199	
127.	21.02	35.13			24.61	338.8	75.	22.63	35.09	24.13	382.4	0.296	
156.	20.18	35.15			24.85	316.8	100.	22.46	35.13	24.20	376.3	0.392	
180.	19.50	35.09			24.98	304.9	150.	20.32	35.15	24.81	320.1	0.567	
204.	18.63	34.96			25.10	293.8	200.	18.80	34.99	25.08	295.9	0.722	
230.	16.97	34.71			25.32	273.8	250.	15.36	34.51	25.53	253.6	0.861	
258.	14.72	34.43			25.61	245.8	300.	11.95	34.16	25.97	212.1	0.978	
273.	13.72	34.32			25.74	233.8	400.	7.97	34.05	26.55	155.8	1.164	
306.	11.58	34.13			26.01	207.6	500.	6.22	34.13	26.86	127.0	1.307	
407.	7.81	34.06			26.58	152.9	600.	5.56	34.26	27.04	110.1	1.426	
509.	6.14	34.14			26.88	125.2	700.	5.11	34.36	27.17	98.1	1.532	
610.	5.52	34.27			27.06	108.7	800.	4.73	34.43	27.27	89.4	1.626	
807.	4.71	34.43			27.28	88.9	1000.	4.10	34.50	27.40	78.2	1.796	
1013.	4.06	34.50			27.40	77.7	1200.	3.62	34.54	27.48	71.1	1.947	
1207.	3.61	34.54			27.48	70.9	1500.	2.91	34.58	27.58	61.6	2.149	
1513.	2.88	34.58			27.58	61.3							

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 1, STATION 34, 22° ON LAT, 147-53W LONG, MAR. 2, 1964, 0700 G.C.T.					DRY BULB 21.0 WET BULB 19.0 WIND SPEED 22, DIR. 08 BAR. 25 WEATHER 01					VIS. 7 CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	22.40	35.04			24.16	377.1	0.	22.40	35.04	24.16	377.1	0.000		
10.	22.38	35.02			24.15	378.4	10.	22.38	35.02	24.15	378.4	0.039		
50. ^A	22.37	35.05			24.17	377.5	20.	22.37	35.02	24.15	378.6	0.077		
72.	22.37	35.06			24.18	377.6	30.	22.37	35.02	24.15	378.5	0.115		
100.	21.92	35.26			24.46	352.1	50.	22.37	35.05	24.17	377.5	0.191		
123.	21.82	35.30			24.52	347.4	75.	22.33	35.08	24.21	375.0	0.286		
151.	21.22	35.27			24.66	334.8	100.	21.92	35.26	24.46	352.1	0.377		
175.	19.27	35.05			25.01	301.9	150.	21.26	35.27	24.65	335.5	0.551		
199.	17.94	34.87			25.21	283.7	200.	17.88	34.86	25.21	282.8	0.706		
222.	16.45	34.67			25.41	264.7	250.	14.64	34.45	25.65	242.4	0.839		
250.	14.64	34.45			25.65	242.4	300.	10.88	34.11	26.12	196.7	0.950		
264.	12.91	34.27			25.86	221.2	400.	9.07	34.25	26.54	158.1	1.129		
297.	10.98	34.11			26.11	198.2	500.	7.09	34.23	26.82	131.2	1.275		
397.	9.14	34.25			26.53	159.1	600.	6.41	34.35	27.01	114.3	1.398		
497.	7.12	34.23			26.82	131.8	700.	5.78	34.42	27.15	102.0	1.508		
596.	6.44	34.35			27.00	114.8	800.	5.22	34.46	27.25	92.9	1.606		
791.	5.27	34.46			27.24	93.6	1000.	4.33	34.50	27.38	80.7	1.782		
990.	4.36	34.50			27.37	81.2	1200.	3.68	34.54	27.47	71.8	1.936		
1181.	3.78	34.54			27.46	72.8								
1479.	3.02	34.57			27.56	63.5								

CROMWELL 1, STATION 35, 23-32N LAT, 147-48W LONG, MAR. 2, 1964, 1700 G.C.T.					DRY BULB 21.0 WET BULB 18.0 WIND SPEED 26, DIR. 13 BAR. 24 WEATHER 01					VIS. 7 CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.		
0.	21.52	35.24			24.55	339.2	0.	21.52	35.24	24.55	339.2	0.000		
9.	21.54	35.23			24.54	340.8	10.	21.54	35.23	24.54	340.9	0.035		
30. ^A	21.54	35.23			24.54	341.6	20.	21.54	35.23	24.54	341.5	0.069		
50. ^A	21.54	35.23			24.54	342.3	30.	21.54	35.23	24.54	341.6	0.104		
72.	21.46	35.29			24.61	336.7	50.	21.54	35.23	24.54	342.3	0.172		
101.	21.40	35.29			24.62	336.2	75.	21.45	35.29	24.61	336.5	0.258		
125.	21.34	35.29			24.64	335.5	100.	21.40	35.29	24.62	336.2	0.343		
153.	21.00	35.30			24.74	326.9	150.	21.09	35.31	24.72	328.7	0.510		
177.	19.06	35.03			25.05	298.3	200.	17.42	34.79	25.27	277.4	0.663		
200.	17.42	34.79			25.27	277.4	250.	13.69	34.31	25.74	233.0	0.792		
224.	15.55	34.54			25.51	254.4	300.	11.24	34.09	26.04	204.3	0.902		
253.	13.49	34.29			25.76	230.8	400.	8.24	34.03	26.50	161.5	1.086		
267.	12.64	34.19			25.86	222.0	500.	6.22	34.05	26.79	133.1	1.235		
300.	11.24	34.09			26.04	204.3	600.	5.31	34.16	26.99	114.3	1.360		
397.	8.32	34.03			26.49	162.5	700.	4.65	34.26	27.15	100.0	1.468		
494.	6.30	34.04			26.78	134.5	800.	4.24	34.35	27.26	89.4	1.564		
593.	5.36	34.15			26.98	115.4	1000.	3.89	34.49	27.41	76.5	1.732		
783.	4.29	34.33			27.25	91.0	1200.	3.48	34.56	27.51	68.1	1.878		
980.	3.93	34.48			27.40	77.3								
1170.	3.55	34.53			27.48	70.7								
1471.	2.86	34.59			27.59	60.1								

CROMWELL 1, STATION 36, 24-59N LAT, 147-52W LONG, MAR. 3, 1964, 0300 G.C.T.					DRY BULB 21.4 WET BULB 18.9 WIND SPEED 28, DIR. 09 BAR. 23 WEATHER 15					VIS. 7 CLOUD TYPE 6, COVER 8				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.		
0.	21.08	35.31			24.73	322.7	0.	21.08	35.31	24.73	322.7	0.000		
10.	21.07	35.32			24.74	322.0	10.	21.07	35.32	24.74	322.0	0.033		
30. ^A	21.07	35.32			24.74	322.8	20.	21.07	35.32	24.74	322.2	0.065		
50. ^A	21.06	35.31			24.73	324.0	30.	21.07	35.32	24.74	322.8	0.098		
71.	21.06	35.31			24.73	324.8	50.	21.06	35.31	24.73	324.0	0.163		
99.	20.07	35.16			24.88	311.2	75.	20.96	35.29	24.75	323.5	0.245		
122.	19.16	35.07			25.05	295.9	100.	20.03	35.16	24.89	310.6	0.324		
150.	18.14	34.89			25.17	285.3	150.	18.14	34.89	25.17	285.3	0.475		
174.	17.16	34.74			25.30	274.2	200.	15.29	34.48	25.52	252.7	0.610		
197.	15.46	34.50			25.50	254.6	250.	12.90	34.23	25.83	224.0	0.730		
220.	14.30	34.36			25.65	241.1	300.	10.58	34.04	26.13	196.2	0.836		
248.	13.03	34.24			25.82	225.3	400.	8.09	34.03	26.52	159.1	1.016		
262.	12.14	34.14			25.91	216.1	500.	6.41	34.08	26.79	133.3	1.163		
295.	10.75	34.05			26.10	198.5	600.	5.40	34.16	26.99	114.9	1.288		
393.	8.24	34.03			26.50	161.2	700.	4.80	34.27	27.14	101.1	1.398		
490.	6.54	34.07			26.77	135.4	800.	4.44	34.36	27.26	90.5	1.494		
586.	5.50	34.15			26.96	117.1	1000.	3.89	34.49	27.42	76.2	1.663		
774.	4.53	34.34			27.23	93.0	1200.	3.45	34.55	27.51	68.0	1.809		
970.	3.96	34.48			27.40	77.6								
1156.	3.56	34.53			27.48	70.7								
1455.	3.01	34.57			27.56	63.3								

^ FROM BY DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 1, STATION 37, 26-30N LAT, 148-0W LNG, MAR. 3, 1964, 1500 G.C.T.				BAR. 24 WEATHER 02									
DRY BULB 21.0	WET BULB 17.9	WIND SPEED 26, DIR. 10						VIS. 6	CLOUD TYPE	, COVER			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	21.49	35.28			24.59	335.5	0.	21.49	35.28	24.59	335.5	0.000	
10. ^A	21.48	35.23			24.59	335.6	10.	21.48	35.28	24.59	335.6	0.034	
30. ^A	21.48	35.28			24.59	336.4	20.	21.48	35.28	24.59	336.1	0.068	
50. ^A	21.46	35.29			24.61	335.9	30.	21.48	35.28	24.59	336.4	0.102	
76.	21.24	35.29			24.67	331.1	50.	21.46	35.29	24.61	335.9	0.170	
105.	20.86	35.28			24.76	323.0	75.	21.25	35.29	24.67	331.3	0.254	
121.	20.35	35.20			24.84	316.2	100.	20.96	35.29	24.74	324.7	0.336	
171.	19.39	35.14			25.05	298.2	150.	19.94	35.20	24.95	306.8	0.496	
186.	18.44	34.95			25.14	289.3	200.	17.43	34.80	25.28	277.0	0.643	
211.	16.67	34.70			25.38	267.1	250.	14.88	34.45	25.59	247.8	0.775	
236.	15.38	34.54			25.55	251.1	300.	11.50	34.15	26.04	204.8	0.889	
267.	13.72	34.33			25.75	232.9	400.	8.94	34.04	26.39	171.7	1.079	
273.	12.94	34.29			25.87	220.6	500.	6.59	34.02	26.72	140.0	1.236	
307.	11.40	34.12			26.04	205.1	600.	5.50	34.03	26.91	122.2	1.369	
404.	8.87	34.04			26.41	170.4	700.	4.79	34.20	27.09	105.7	1.484	
501.	6.57	34.02			26.73	139.7	800.	4.31	34.32	27.24	91.9	1.584	
597.	5.53	34.08			26.91	122.8	1000.	3.74	34.47	27.41	76.1	1.754	
787.	4.36	34.31			27.22	93.3	1200.	3.36	34.55	27.51	67.5	1.899	
982.	3.78	34.46			27.40	77.1							
1171.	3.46	34.53			27.49	69.6							
1474.	2.97	34.56			27.56	63.6							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.18

TEMPERATURE ERROR TERM AT 250. METERS IS 0.16

TEMPERATURE ERROR TERM AT 300. METERS IS 0.12

CROMWELL 1, STATION 38, 25- ON LAT, 151-0W LNG, MAR. 4, 1964, 0900 G.C.T.				BAR. 23 WEATHER 01				VIS. 6 CLOUD TYPE , COVER 0					
DRY BULB 22.0	WET BULB 19.0	WIND SPEED 19, DIR. 12						VIS. 6	CLOUD TYPE	, COVER 0			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.45	35.13			24.21	372.0	0.	22.45	35.13	24.21	372.0	0.000	
11. ^A	22.44	35.13			24.21	372.1	10.	22.44	35.13	24.21	372.1	0.038	
30. ^A	22.44	35.13			24.21	372.8	20.	22.44	35.13	24.21	372.4	0.075	
50. ^A	22.44	35.13			24.21	373.6	30.	22.44	35.13	24.21	372.8	0.113	
75.	22.29	35.25			24.35	361.8	50.	22.44	35.13	24.21	373.6	0.188	
105.	21.89	35.26			24.47	351.5	75.	22.29	35.25	24.35	361.8	0.281	
130.	20.78	35.18			24.71	329.1	100.	22.00	35.27	24.44	353.7	0.371	
159.	19.30	35.03			24.99	303.5	150.	19.73	35.08	24.91	310.7	0.538	
185.	18.60	34.97			25.12	291.7	200.	17.98	34.88	25.20	284.0	0.688	
209.	17.54	34.81			25.26	279.0	250.	15.12	34.49	25.57	249.6	0.823	
234.	16.16	34.61			25.43	263.0	300.	11.51	34.12	26.02	206.7	0.938	
264.	14.04	34.37			25.71	236.3	400.	8.74	34.04	26.43	168.4	1.127	
279.	12.65	34.21			25.87	221.0	500.	6.56	34.02	26.73	139.2	1.282	
314.	11.02	34.11			26.10	199.3	600.	5.30	34.10	26.95	118.6	1.413	
418.	8.42	34.04			26.48	163.7	700.	4.69	34.22	27.11	103.5	1.525	
523.	6.13	34.03			26.79	133.4	800.	4.28	34.33	27.24	91.3	1.623	
627.	5.12	34.13			26.99	114.3	1000.	3.74	34.48	27.42	75.2	1.792	
831.	4.20	34.36			27.28	88.1	1200.	3.31	34.54	27.51	67.0	1.936	
1039.	3.66	34.50			27.45	73.2	1500.	2.74	34.59	27.60	58.7	2.127	
1240.	3.23	34.55			27.53	65.9							
1549.	2.66	34.59			27.60	58.2							

CROMWELL 1, STATION 39, 25- 3N LAT, 154-3W LONG, MAR. 4, 1964, 2400 G.C.T.				BAR. 22 WEATHER 02				VIS. 9 CLOUD TYPE 8, COVER 2					
DRY BULB 23.8	WET BULB 20.1	WIND SPEED 18, DIR. 10						VIS. 9	CLOUD TYPE	8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.66	35.21			24.21	371.9	0.	22.66	35.21	24.21	371.9	0.000	
9.	22.66	35.18			24.19	374.4	10.	22.66	35.18	24.19	374.5	0.038	
30. ^A	22.66	35.18			24.19	375.2	20.	22.67	35.17	24.18	375.4	0.076	
50. ^A	22.58	35.18			24.21	373.8	30.	22.66	35.19	24.19	375.2	0.114	
75. ^A	22.50	35.18			24.23	372.6	50.	22.58	35.18	24.21	373.8	0.189	
101.	22.46	35.18			24.24	372.5	75.	22.50	35.18	24.23	372.6	0.283	
125.	19.60	35.01			24.89	311.2	100.	22.49	35.18	24.24	373.1	0.377	
155.	19.00	35.02			25.06	296.8	150.	19.04	35.02	25.05	297.3	0.546	
179.	17.43	34.76			25.25	279.1	200.	16.67	34.68	25.37	267.3	0.688	
203.	16.52	34.67			25.39	265.7	250.	13.92	34.39	25.75	232.4	0.914	
227.	15.39	34.57			25.57	248.9	300.	11.71	34.18	26.03	206.0	0.925	
256.	13.57	34.34			25.79	224.8	400.	8.76	34.08	26.46	165.7	1.112	
270.	13.08	34.29			25.85	223.2	500.	6.16	34.02	26.78	134.1	1.264	
304.	11.52	34.17			26.05	203.6	600.	5.08	34.11	26.98	115.2	1.390	
405.	8.65	34.08			26.47	164.0	700.	4.55	34.22	27.13	101.3	1.499	
507.	6.01	34.02			26.80	132.3	800.	4.22	34.33	27.25	90.3	1.596	
609.	5.04	34.12			27.00	113.8	1000.	3.75	34.48	27.42	75.1	1.763	
810.	4.20	34.34			27.26	89.4	1200.	3.24	34.54	27.52	66.5	1.907	
1013.	3.72	34.49			27.43	74.4	1500.	2.70	34.58	27.60	59.0	2.098	
1208.	3.22	34.54			27.52	66.3							
1514.	2.68	34.58			27.60	58.9							

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

^AFROM BT DATA

Table 1.--Continued

ORIGINAL DATA						DERIVED DATA						INTERPOLATED DATA					
CROMWELL	1, STATION	40, 25- ON LAT,	157- OW LONG,	MAR.	5, 1964, 2000 G.C.T.	CLOUD	TYPE	8, COVER	2	VIS.	8	CLOUD	TYPE	8, COVER	2		
DRY BULB	22.8	WET BULB	20.2	WIND SPEED	13, DIR. 10	BAR.	22	WEATHER	01								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	22.56	35.29		24.30	363.4	0.	22.56	35.29	24.30	363.4	0.000						
10.	22.52	35.29		24.31	362.7	10.	22.52	35.29	24.31	362.7	0.037						
30. ^A	22.46	35.29		24.33	361.8	20.	22.49	35.29	24.32	362.3	0.074						
50. ^A	22.40	35.30		24.35	360.2	30.	22.46	35.29	24.33	361.8	0.110						
76.	22.10	35.30		24.44	353.2	50.	22.40	35.30	24.35	360.2	0.183						
106.	20.14	35.08		24.80	319.1	75.	22.13	35.30	24.43	353.7	0.273						
130.	18.75	34.92		25.04	297.1	100.	20.59	35.13	24.72	326.5	0.358						
160.	17.08	34.79		25.35	268.2	150.	17.64	34.83	25.25	277.8	0.511						
185.	15.58	34.65		25.59	245.9	200.	14.94	34.57	25.68	238.3	0.641						
211.	14.52	34.52		25.72	233.7	250.	12.96	34.37	25.94	214.2	0.755						
236.	13.45	34.40		25.86	221.6	300.	11.21	34.20	26.14	195.5	0.858						
266.	12.45	34.34		26.01	207.4	400.	9.21	34.11	26.41	170.6	1.043						
280.	12.03	34.27		26.04	205.0	500.	7.26	34.05	26.66	147.0	1.203						
315.	10.59	34.17		26.22	187.4	600.	5.67	34.08	26.89	124.6	1.340						
420.	9.04	34.11		26.44	168.2	700.	4.83	34.19	27.08	106.7	1.457						
525.	6.71	34.04		26.72	140.5	900.	4.32	34.32	27.23	92.5	1.558						
631.	5.35	34.11		26.95	118.7	1000.	3.69	34.46	27.41	75.9	1.728						
835.	4.21	34.36		27.28	88.3	1200.	3.28	34.52	27.50	68.3	1.874						
1047.	3.58	34.48		27.44	73.8	1500.	2.68	34.59	27.61	58.4	2.067						
1247.	3.20	34.53		27.51	67.1												
1558.	2.58	34.59		27.62	57.3												

TEMPERATURE ERROR TERM AT 400. METERS IS 0.13

CROMWELL	1, STATION	41, 23-33N LAT, 157- 6W LONG, MAR.	6, 1964, 0600 G.C.T.	CLOUD	TYPE	8, COVER 2									
DRY BULB	22.9	WET BULB	20.2	WIND SPEED	21, DIR. 08	BAR.	19	WEATHER	02	VIS.	8	CLOUD	TYPE	8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	22.91	35.26		24.18	375.1	0.	22.91	35.26	24.18	375.1	0.000				
10.	22.90	35.24		24.16	376.7	10.	22.90	35.24	24.16	376.7	0.038				
30. ^A	22.70	35.25		24.23	371.2	20.	22.81	35.24	24.19	374.5	0.076				
50.	22.62	35.26		24.26	369.1	30.	22.70	35.25	24.23	371.2	0.114				
76.	21.77	35.20		24.45	351.6	50.	22.62	35.26	24.26	369.1	0.188				
106.	20.18	35.12		24.82	317.2	75.	21.82	35.20	24.44	352.5	0.279				
131.	19.40	35.02		24.95	305.8	100.	20.50	35.14	24.75	323.7	0.364				
161.	18.24	34.89		25.15	288.1	150.	18.68	34.94	25.07	294.9	0.520				
186.	17.28	34.81		25.32	272.2	200.	16.40	34.72	25.46	259.6	0.660				
211.	15.72	34.64		25.55	250.4	250.	14.34	34.49	25.74	233.6	0.784				
236.	14.84	34.54		25.67	239.7	300.	12.83	34.35	25.94	215.0	0.897				
266.	13.78	34.43		25.81	226.7	400.	9.91	34.14	26.31	180.2	1.097				
281.	13.30	34.39		25.88	220.5	500.	7.20	34.05	26.66	146.3	1.262				
317.	12.44	34.31		25.99	210.7	600.	5.57	34.13	26.94	119.5	1.396				
422.	9.22	34.10		26.40	171.9	700.	4.86	34.26	27.13	102.2	1.508				
518.	6.80	34.05		26.72	140.9	1000.	4.55	34.36	27.24	91.8	1.606				
633.	5.24	34.18		27.02	112.1	1200.	3.98	34.49	27.40	77.8	1.777				
839.	4.52	34.40		27.28	89.1	1200.	3.49	34.53	27.48	70.5	1.928				
1048.	3.84	34.50		27.43	75.4	1500.	2.84	34.58	27.58	61.0	2.128				
1247.	3.40	34.53		27.49	69.4										
1557.	2.74	34.58		27.60	59.9										

CROMWELL	1, STATION	42, 22- 4N LAT, 156-58W LONG, MAR.	6, 1964, 1600 G.C.T.	CLOUD	TYPE	8, COVER 1									
DRY BULB	22.8	WET BULB	20.7	WIND SPEED	20, DIR. 07	BAR.	17	WEATHER	01	VIS.	8	CLOUD	TYPE	8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.43	34.85		23.72	419.0	0.	23.43	34.85	23.72	419.0	0.000				
10.	23.42	34.85		23.72	419.2	10.	23.42	34.85	23.72	419.2	0.043				
50. ^A	23.42	34.92		23.77	415.6	20.	23.41	34.86	23.73	418.2	0.085				
74.	23.54	34.96		23.77	417.0	30.	23.40	34.88	23.75	417.3	0.127				
104.	23.54	35.14		23.90	405.2	50.	23.42	34.92	23.77	415.6	0.211				
128.	22.72	35.18		24.17	380.6	75.	23.55	34.97	23.77	416.9	0.316				
158.	21.08	35.12		24.58	342.2	100.	23.58	35.12	23.87	407.8	0.420				
182.	19.42	35.02		24.95	308.0	150.	21.57	35.15	24.47	353.1	0.611				
207.	18.24	34.90		25.15	288.9	200.	18.55	34.94	25.11	293.3	0.774				
231.	17.05	34.75		25.33	272.7	250.	15.34	34.56	25.58	249.0	0.911				
261.	14.30	34.45		25.72	235.7	300.	12.41	34.24	25.94	214.6	1.028				
275.	13.30	34.33		25.83	224.7	400.	9.19	34.09	26.40	171.7	1.223				
311.	12.18	34.23		25.98	211.5	500.	7.19	34.11	26.72	141.4	1.381				
415.	8.73	34.08		26.46	165.5	600.	5.85	34.22	26.97	116.8	1.511				
516.	6.98	34.13		26.76	137.5	700.	4.98	34.29	27.14	101.2	1.621				
622.	5.60	34.24		27.02	112.1	800.	4.46	34.35	27.24	91.7	1.719				
824.	4.38	34.36		27.26	90.2	1000.	3.87	34.45	27.39	78.7	1.891				
1031.	3.81	34.47		27.41	77.1	1200.	3.42	34.54	27.50	68.6	2.040				
1231.	3.35	34.55		27.52	67.3	1500.	2.78	34.58	27.59	59.9	2.236				
1541.	2.70	34.58		27.60	59.3										

^AFROM BT DATA

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

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 2, STATION 1, 20-34N LAT, 157-16W LCNG, MAR. 17, 1964, 0600 G.C.T.		DRY BULB 23.9 WET BULB 21.1		WIND SPEED 17, DIR. 15		BAR. 18		WEATHER 02		VIS. 9		CLCUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.11	34.88			23.54	435.9	0.	24.11	34.88	23.54	435.9	C.000		
9.	24.10	34.88			23.54	436.0	10.	24.10	34.88	23.54	436.0	0.044		
47.	23.86	34.91			23.64	428.6	20.	24.05	34.88	23.56	435.1	0.088		
73.	23.61	34.99			23.77	416.8	30.	24.00	34.89	23.58	433.4	0.132		
94.	23.41	35.04			23.87	404.4	50.	23.83	34.92	23.65	427.3	0.219		
119.	22.80	35.12			24.10	386.7	75.	23.60	34.99	23.78	416.2	0.325		
143.	20.79	35.07			24.62	337.7	100.	23.35	35.06	23.90	405.2	0.428		
166.	19.70	35.00			24.86	315.9	150.	20.44	35.05	24.71	330.1	0.514		
189.	18.18	34.87			25.15	289.0	200.	17.69	34.81	25.22	282.1	0.768		
214.	17.11	34.74			25.31	274.3	250.	14.89	34.51	25.64	243.4	0.901		
237.	15.82	34.62			25.52	254.9	300.	12.23	34.30	26.02	207.0	1.014		
261.	14.12	34.42			25.73	234.2	400.	8.79	34.12	26.48	163.5	1.201		
285.	12.91	34.35			25.93	215.9	500.	6.77	34.20	26.84	129.2	1.349		
380.	9.34	34.12			26.40	171.5	600.	5.69	34.32	27.08	107.1	1.468		
467.	7.32	34.16			26.73	139.3	700.	5.14	34.40	27.21	95.2	1.570		
501.	6.00	34.28			27.01	113.6	800.	4.81	34.46	27.29	88.1	1.663		
747.	5.01	34.43			27.24	92.0	1000.	4.20	34.51	27.40	78.4	1.832		
936.	4.38	34.50			27.37	80.9	1200.	3.65	34.55	27.49	70.5	1.982		
1126.	3.86	34.53			27.45	74.1								
1460.	3.03	34.58			27.57	62.8								
CROMWELL 2, STATION 2, 19- IN LAT, 156-59W LCNG, MAR. 17, 1964, 1700 G.C.T.		DRY BULB 23.3 WET BULB 20.3		WIND SPEED 16, DIR. 14		BAR. 17		WEATHER 00		VIS. 9		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.44	35.07			23.88	403.4	0.	23.44	35.07	23.88	403.4	C.000		
10.	23.42	35.08			23.89	402.6	10.	23.42	35.08	23.89	402.6	0.041		
30. ^A	23.00	35.11			24.04	389.6	20.	23.36	35.10	23.93	399.8	0.082		
50.	20.76	35.06			24.62	334.3	30.	23.00	35.11	24.04	389.6	0.121		
74.	19.50	35.01			24.92	307.0	50.	20.76	35.06	24.62	334.3	0.194		
98.	18.63	34.92			25.07	293.1	75.	19.46	35.01	24.93	306.3	0.275		
122.	17.54	34.80			25.25	276.9	100.	18.53	34.91	25.09	291.7	0.350		
147.	16.88	34.74			25.36	266.9	150.	16.75	34.72	25.38	265.2	0.490		
173.	15.43	34.56			25.56	248.9	200.	13.53	34.37	25.82	224.4	0.614		
197.	13.63	34.38			25.80	225.5	250.	11.95	34.24	26.03	204.7	0.722		
220.	13.07	34.32			25.88	218.6	300.	10.40	34.17	26.25	184.0	0.820		
246.	12.04	34.25			26.02	205.8	400.	7.57	34.16	26.70	141.8	0.984		
271.	11.49	34.22			26.10	198.6	500.	6.07	34.21	26.94	119.1	1.116		
296.	10.54	34.17			26.23	186.1	600.	5.39	34.34	27.13	101.8	1.228		
392.	7.74	34.16			26.67	144.2	700.	4.91	34.43	27.25	90.4	1.325		
493.	6.14	34.20			26.92	120.5	800.	4.56	34.48	27.34	82.9	1.413		
591.	5.44	34.33			27.11	103.0	1000.	3.96	34.53	27.44	74.0	1.571		
788.	4.60	34.48			27.33	83.6	1200.	3.42	34.57	27.52	66.6	1.714		
987.	3.99	34.53			27.44	74.4								
1186.	3.51	34.56			27.51	68.1								
1415.	2.76	34.60			27.61	57.8								
CROMWELL 2, STATION 3, 17-30N LAT, 157- 1W LCNG, MAR. 18, 1964, 0200 G.C.T.		DRY BULB 24.0 WET BULB 21.6		WIND SPEED 20, DIR. 19		BAR. 15		WEATHER 03		VIS. 9		CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	23.81	34.59			23.41	448.5	0.	23.81	34.59	23.41	446.4	C.000		
10.	23.75	34.60			23.43	446.4	10.	23.75	34.60	23.43	446.4	C.046		
47.	23.64	34.60			23.47	444.7	20.	23.70	34.60	23.45	445.4	0.090		
71.	23.65	34.61			23.47	445.2	30.	23.67	34.60	23.46	444.7	0.135		
93.	23.71	34.68			23.51	442.7	50.	23.64	34.60	23.47	444.9	0.225		
116.	23.50	34.80			23.66	429.1	75.	23.67	34.62	23.47	445.2	0.337		
139.	22.50	35.10			24.17	380.8	100.	23.70	34.70	23.53	441.0	0.449		
164.	20.57	35.08			24.69	332.1	150.	21.70	35.12	24.41	358.1	0.650		
187.	18.88	34.94			25.02	300.7	200.	17.77	34.80	25.19	285.1	0.812		
209.	16.91	34.68			25.31	273.9	250.	12.58	34.28	25.94	213.7	0.938		
234.	13.98	34.35			25.71	235.7	300.	9.91	34.20	26.36	173.7	1.036		
257.	12.07	34.27			26.03	205.2	400.	7.94	34.30	26.75	136.9	1.192		
279.	10.77	34.21			26.22	186.8	500.	7.11	34.42	26.97	117.8	1.321		
373.	8.22	34.26			26.68	143.6	600.	6.09	34.45	27.13	102.9	1.432		
467.	7.51	34.40			26.90	124.3	700.	5.57	34.49	27.23	94.1	1.532		
561.	6.36	34.43			27.08	107.4	800.	5.14	34.52	27.30	87.7	1.624		
748.	5.41	34.51			27.26	91.2	1000.	4.32	34.54	27.41	77.9	1.791		
939.	4.50	34.53			27.38	80.2	1200.	3.77	34.56	27.49	71.1	1.942		
1131.	4.02	34.56			27.46	73.9								
1424.	3.39	34.59			27.54	66.2								

^AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 2, STATION 4, 16° ON LAT, 157° CW LNG, MAR. 18, 1964, 1200 G.C.T.													
DRY BULB 24.0	WET BULB 21.4	WIND SPEED 18, DIR. 06	BAR. 17	WEATHER 00	VIS. 8	CLOUD TYPE , COVER	DYN.DPTH.						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.27	34.43			23.15	472.9	0.	24.27	34.43	23.15	472.9	0.000	
8.	24.26	34.42			23.15	473.7	10.	24.25	34.42	23.15	473.6	0.048	
30. ^A	24.08	34.42			23.20	469.4	20.	24.18	34.41	23.17	472.2	0.096	
51.	23.86	34.46			23.30	461.1	30.	24.08	34.42	23.20	469.4	0.143	
76.	23.65	34.57			23.44	448.3	50.	23.87	34.46	23.29	461.6	0.237	
100.	23.82	35.04			23.75	420.1	75.	23.65	34.56	23.43	449.0	0.352	
125.	21.37	35.01			24.42	356.5	100.	23.82	35.04	23.75	420.1	0.461	
150.	20.28	35.07			24.76	324.9	150.	20.28	35.07	24.76	324.9	0.649	
174.	18.87	34.97			25.05	297.9	200.	17.13	34.70	25.27	277.0	0.801	
199.	17.26	34.72			25.26	278.7	250.	11.35	34.18	26.09	198.6	0.921	
224.	13.88	34.33			25.71	234.9	300.	11.26	34.67	26.49	162.3	1.012	
249.	11.42	34.18			26.08	199.8	400.	10.01	34.67	26.71	142.7	1.165	
275.	10.52	34.30			26.34	175.8	500.	8.63	34.58	26.87	128.7	1.302	
299.	11.25	34.66			26.48	162.7	600.	7.27	34.48	26.99	117.2	1.427	
398.	10.04	34.67			26.71	143.1	700.	6.48	34.47	27.09	108.0	1.540	
499.	8.64	34.58			26.87	128.8	800.	5.97	34.50	27.18	100.1	1.646	
597.	7.30	34.48			26.99	117.5	1000.	5.07	34.54	27.32	87.4	1.835	
798.	5.98	34.50			27.18	100.2	1200.	4.15	34.57	27.45	75.6	2.000	
998.	5.08	34.54			27.32	87.6							
1133.	4.31	34.56			27.43	77.5							
1499.	3.35	34.58			27.54	67.0							
CROMWELL 2, STATION 5, 14-30N LAT, 157° 4W LNG, MAR. 18, 1964, 2100 G.C.T.													
DRY BULB 24.8	WET BULB 22.5	WIND SPEED 14, DIR. 07	BAR. 16	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 2	DYN.DPTH.						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.80	34.43			22.99	488.1	0.	24.80	34.43	22.99	488.1	0.000	
9.	24.77	34.41			22.99	489.0	10.	24.77	34.41	22.99	489.1	0.050	
49.	24.68	34.41			23.01	488.0	20.	24.74	34.40	22.99	489.3	0.099	
76.	24.63	34.43			23.04	486.2	30.	24.72	34.40	22.99	489.1	0.148	
100.	24.46	34.45			23.11	480.8	50.	24.68	34.41	23.01	488.0	0.247	
123.	18.56	34.75			24.96	304.6	75.	24.63	34.43	23.04	486.3	0.369	
149.	14.44	34.39			25.64	239.8	100.	24.46	34.45	23.11	480.8	0.491	
175.	12.23	34.29			26.01	204.7	150.	14.32	34.38	25.66	238.1	0.672	
190.	11.75	34.36			26.16	191.1	200.	11.19	34.35	26.26	181.9	0.778	
220.	10.15	34.32			26.42	166.9	250.	9.78	34.41	26.55	154.3	0.863	
248.	9.81	34.41			26.54	155.2	300.	9.13	34.48	26.71	139.8	0.937	
276.	9.37	34.46			26.66	144.9	400.	8.55	34.59	26.89	124.7	1.071	
298.	9.14	34.48			26.71	140.2	500.	7.77	34.58	27.00	115.6	1.192	
397.	8.57	34.59			26.89	125.1	600.	6.85	34.55	27.11	105.9	1.304	
496.	7.81	34.58			26.99	116.0	700.	6.14	34.54	27.20	97.8	1.407	
595.	6.89	34.55			27.10	106.4	800.	5.56	34.55	27.27	90.8	1.502	
792.	5.60	34.55			27.27	91.3	1000.	4.59	34.56	27.39	79.8	1.675	
989.	4.64	34.56			27.39	80.3	1200.	3.84	34.57	27.49	71.2	1.828	
1186.	3.89	34.57			27.48	72.0							
1484.	3.10	34.61			27.59	61.6							
CROMWELL 2, STATION 6, 12-56N LAT, 157° 0W LNG, MAR. 19, 1964, 0600 G.C.T.													
DRY BULB 24.9	WET BULB 22.7	WIND SPEED 13, DIR. 07	BAR. 13	WEATHER 02	VIS. 8	CLOUD TYPE 4, COVER 6	DYN.DPTH.						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.70	34.35			22.96	491.0	0.	24.70	34.35	22.96	491.0	0.000	
9.	24.70	34.35			22.96	491.3	10.	24.69	34.35	22.96	491.2	0.050	
30. ^A	24.54	34.35			23.01	487.6	20.	24.62	34.35	22.98	489.6	0.099	
48.	24.48	34.36			23.04	485.8	30.	24.54	34.35	23.01	487.6	0.149	
75. ^A	24.44	34.36			23.05	485.7	50.	24.50	34.35	23.03	486.9	0.247	
97.	23.45	34.67			23.57	436.3	75.	24.44	34.36	23.05	485.7	0.369	
120.	18.04	34.67			25.03	297.9	100.	22.82	34.69	23.77	417.7	0.483	
145.	14.38	34.40			25.66	237.8	150.	13.64	34.35	25.78	227.0	0.645	
169.	11.42	34.20			26.10	196.4	200.	10.41	34.23	26.30	177.5	0.747	
184.	10.80	34.20			26.21	185.9	250.	9.80	34.48	26.60	149.9	0.830	
215.	10.15	34.28			26.38	169.7	300.	9.25	34.54	26.74	137.3	0.902	
238.	9.73	34.41			26.56	153.7	400.	8.48	34.58	26.89	124.2	1.034	
264.	9.87	34.54			26.63	146.9	500.	7.62	34.57	27.01	113.8	1.154	
288.	9.40	34.54			26.71	139.8	600.	6.81	34.55	27.11	105.7	1.265	
383.	8.62	34.58			26.87	126.3	700.	6.10	34.54	27.20	97.8	1.368	
477.	7.82	34.58			26.99	115.8	800.	5.52	34.54	27.27	90.9	1.463	
571.	7.04	34.55			27.08	108.1	1000.	4.65	34.56	27.39	80.3	1.637	
758.	5.74	34.54			27.24	93.5	1200.	3.86	34.58	27.49	70.9	1.790	
951.	4.85	34.56			27.37	82.6							
1140.	4.10	34.57			27.46	74.2							
1391.	3.19	34.61			27.58	62.1							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.12

^AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		2, STATION	7, 11-24N LAT, 156-56W LONG, MAR. 19, 1964, 1500 G.C.T.												
DRY BULB 24.8		WET BULB 22.8	WIND SPEED 14, DIR. 07	BAR. 11		WEATHER 00	VIS. 8	CLOUD TYPE	, COVER	DYN.DPTH.					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.21	34.34		22.80	506.5	0.	25.21	34.34	22.80	506.5	0.000				
11.	25.18	34.35		22.82	505.3	10.	25.18	34.35	22.82	505.4	0.051				
49.	25.23	34.35		22.80	508.2	20.	25.23	34.34	22.80	507.7	0.102				
78.	24.59	34.53		23.13	477.9	30.	25.25	34.34	22.78	509.1	0.154				
100.	21.26	35.09		24.51	346.9	50.	25.25	34.35	22.80	508.8	0.256				
122.	18.73	34.89		25.02	298.5	75.	24.77	34.49	23.05	485.6	0.391				
149.	13.69	34.38		25.79	225.4	100.	21.26	35.09	24.51	346.9	0.486				
173.	12.09	34.61		26.29	178.6	150.	13.58	34.38	25.82	223.0	0.630				
188.	11.74	34.67		26.40	168.1	200.	11.54	34.70	26.47	162.2	0.727				
220.	11.28	34.74		26.54	155.5	250.	10.92	34.75	26.61	149.1	0.906				
246.	10.97	34.75		26.61	149.9	300.	10.21	34.72	26.71	140.4	0.879				
275.	10.58	34.74		26.67	144.5	400.	9.16	34.66	26.84	129.5	1.015				
297.	10.25	34.72		26.71	140.8	500.	8.18	34.61	26.96	119.3	1.140				
396.	9.20	34.66		26.84	129.9	600.	7.09	34.56	27.08	108.9	1.255				
487.	8.33	34.62		26.95	120.8	700.	6.32	34.54	27.17	100.7	1.361				
585.	7.22	34.56		27.06	110.2	800.	5.70	34.54	27.25	93.4	1.460				
778.	5.84	34.54		27.23	95.1	1000.	4.59	34.55	27.39	80.2	1.635				
967.	4.74	34.55		27.37	82.1	1200.	3.81	34.58	27.49	70.6	1.788				
1169.	3.96	34.58		27.48	72.0										
1463.	3.19	34.61		27.58	62.6										
CROMWELL		2, STATION	8, 11-34N LAT, 154-2W LONG, MAR. 20, 1964, 0900 G.C.T.												
DRY BULB 25.4		WET BULB 22.8	WIND SPEED 14, DIR. 09	BAR. 12		WEATHER 00	VIS. 9	CLOUD TYPE	, COVER	DYN.DPTH.					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	25.43	34.32		22.72	514.3	0.	25.43	34.32	22.72	514.3	0.000				
10. ^Δ	25.44	34.33		22.72	514.3	10.	25.44	34.33	22.72	514.3	0.052				
30. ^Δ	25.44	34.38		22.76	511.5	20.	25.45	34.35	22.74	513.3	0.104				
48.	25.38	34.44		22.82	506.1	30.	25.44	34.38	22.76	511.5	0.156				
74.	25.34	34.48		22.87	503.1	50.	25.48	34.44	22.79	509.0	0.258				
99.	19.70	34.65		24.59	338.9	75.	25.18	34.49	22.92	497.6	0.335				
120.	14.12	34.38		25.70	233.2	100.	19.41	34.64	24.66	332.4	0.490				
143.	11.71	34.33		26.14	191.4	150.	11.57	34.40	26.22	183.9	0.620				
168.	11.42	34.57		26.38	169.2	200.	10.64	34.60	26.55	154.3	0.705				
182.	10.75	34.55		26.49	159.3	250.	10.35	34.68	26.66	144.6	0.780				
212.	10.72	34.66		26.56	152.8	300.	9.88	34.68	26.75	137.3	0.852				
236.	10.42	34.66		26.63	146.7	400.	8.85	34.63	26.87	126.4	0.985				
263.	10.29	34.69		26.68	142.9	500.	7.89	34.59	26.99	116.4	1.107				
285.	10.04	34.69		26.72	139.2	600.	7.06	34.55	27.08	108.7	1.221				
377.	9.09	34.64		26.84	129.2	700.	6.32	34.55	27.17	100.1	1.326				
467.	8.19	34.61		26.96	119.0	800.	5.61	34.55	27.27	91.4	1.423				
559.	7.38	34.56		27.04	112.1	1000.	4.52	34.57	27.41	78.0	1.595				
743.	6.02	34.55		27.22	96.3	1200.	3.78	34.59	27.50	69.3	1.744				
927.	4.81	34.56		27.37	81.8										
1113.	4.16	34.59		27.47	73.2										
1395.	3.34	34.60		27.56	64.7										
CROMWELL		2, STATION	9, 13- IN LAT, 154-2W LONG, MAR. 20, 1964, 1800 G.C.T.												
DRY BULB 24.9		WET BULB 22.2	WIND SPEED 22, DIR. 10	BAR. 12		WEATHER 03	VIS. 8	CLOUD TYPE	6, COVER 7	DYN.DPTH.					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
1.	24.79	34.32		22.91	495.8	0.	24.79	34.32	22.91	495.7	0.000				
9. ^Δ	24.80	34.32		22.91	496.4	10.	24.80	34.32	22.91	496.5	0.050				
30. ^Δ	24.80	34.33		22.92	496.5	20.	24.81	34.32	22.91	496.8	0.100				
52. ^Δ	24.66	34.35		22.97	491.9	30.	24.80	34.33	22.92	496.5	0.151				
75.	24.52	34.39		23.05	485.8	50.	24.68	34.35	22.97	492.4	0.250				
101.	21.78	34.70		24.07	388.8	75.	24.52	34.39	23.05	485.8	0.373				
126.	19.87	34.95		24.78	322.4	100.	21.90	34.69	24.03	393.1	0.484				
152.	16.15	34.55		25.39	264.6	150.	16.46	34.59	25.35	268.5	0.651				
176.	13.05	34.31		25.87	218.7	200.	11.70	34.40	26.19	187.9	0.766				
191.	12.17	34.37		26.09	198.1	250.	10.81	34.61	26.53	157.4	0.853				
224.	10.87	34.47		26.41	168.2	300.	10.26	34.65	26.65	146.2	0.929				
250.	10.81	34.61		26.53	157.4	400.	9.11	34.60	26.81	132.9	1.070				
276.	10.58	34.64		26.59	151.8	500.	7.93	34.55	26.95	120.1	1.198				
300.	10.26	34.65		26.65	146.2	600.	6.96	34.54	27.08	108.2	1.313				
399.	9.12	34.60		26.81	133.0	700.	6.20	34.54	27.18	99.1	1.418				
499.	7.94	34.55		26.95	120.2	800.	5.58	34.54	27.26	91.9	1.515				
598.	6.98	34.54		27.08	108.4	1000.	4.64	34.55	27.38	81.1	1.690				
795.	5.61	34.54		27.26	92.2	1200.	3.92	34.57	27.48	72.3	1.845				
993.	4.67	34.55		27.38	81.5										
1191.	3.98	34.58		27.48	72.4										
1489.	3.16	34.59		27.57	63.8										

^aFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL DRY BULB 25.0	2, STATION WET BULB 22.5	10, 14-30N LAT, 153-58W LONG, MAR. 21, 1964, 0200 G.C.T.						VIS. 8	CLOUD	TYPE 6, COVER 6	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	24.72	34.40			22.99	488.0	0.	24.72	34.40	22.99	488.0
9.	24.60	34.38			23.02	486.3	10.	24.60	34.38	23.02	486.3
30. ^A	24.58	34.38			23.02	486.5	20.	24.57	34.38	23.02	486.1
51.	24.53	34.38			23.04	485.9	30.	24.58	34.38	23.02	486.5
78.	23.50	34.47			23.41	451.4	50.	24.54	34.38	23.03	486.2
102.	21.56	35.05			24.40	357.8	75.	23.67	34.44	23.34	458.0
126.	20.46	35.13			24.76	324.3	100.	21.72	35.00	24.32	365.5
153.	18.80	34.94			25.05	297.6	150.	19.01	34.97	25.02	300.4
178.	16.81	34.69			25.34	270.0	200.	16.69	34.63	25.62	243.4
193.	15.30	34.50			25.54	251.1	250.	10.75	34.17	26.20	188.4
226.	12.61	34.25			25.91	216.0	300.	9.27	34.28	26.93	156.9
253.	10.55	34.17			26.23	185.4	400.	7.92	34.41	26.94	128.8
282.	9.62	34.17			26.39	170.5	500.	7.01	34.46	27.01	113.5
304.	9.20	34.31			26.57	153.8	600.	6.22	34.47	27.13	103.1
405.	7.87	34.40			26.84	128.6	700.	5.63	34.49	27.21	95.3
508.	6.95	34.46			27.02	112.5	800.	5.16	34.51	27.29	88.7
609.	6.16	34.47			27.13	102.3	1000.	4.33	34.55	27.41	77.4
811.	5.11	34.51			27.30	88.1	1200.	3.69	34.56	27.49	70.4
1012.	4.29	34.55			27.42	76.9	1500.	2.93	34.58	27.58	61.8
1215.	3.65	34.56			27.49	70.0					2.057
1518.	2.89	34.58			27.56	61.5					

CROMWELL DRY BULB 24.2	2, STATION WET BULB 22.6	11, 16- 2N LAT, 154- 2W LONG, MAR. 21, 1964, 1100 G.C.T.						VIS. 8	CLOUD	TYPE 0, COVER 0	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
1.	24.02	34.84			23.54	436.3	0.	24.02	34.84	23.55	435.4
11.	23.97	34.84			23.55	435.3	10.	23.97	34.84	23.56	434.4
50. ^A	23.84	34.86			23.60	431.7	20.	23.93	34.84	23.58	433.4
75.	23.83	34.88			23.62	431.0	30.	23.89	34.85	23.60	431.7
102.	22.58	35.09			24.14	382.3	50.	23.84	34.86	24.09	386.9
126.	20.48	35.05			24.69	330.6	75.	23.83	34.88	23.62	431.0
152.	18.34	34.89			25.12	290.1	100.	22.71	35.08	24.09	386.9
177.	16.25	34.66			25.45	259.6	150.	18.50	34.91	25.09	292.8
193.	14.75	34.50			25.66	239.5	200.	14.07	34.43	25.75	230.8
225.	11.95	34.24			26.03	204.4	250.	10.61	34.18	26.23	185.6
250.	10.61	34.18			26.23	185.6	300.	9.21	34.28	26.54	156.1
277.	9.84	34.21			26.38	171.0	400.	7.64	34.31	26.81	131.7
303.	9.13	34.29			26.56	154.2	500.	6.89	34.41	26.99	115.0
401.	7.63	34.31			26.81	131.7	600.	6.35	34.48	27.12	104.3
505.	6.97	34.42			27.00	114.3	700.	5.80	34.50	27.20	96.8
605.	6.33	34.48			27.12	103.9	800.	5.29	34.50	27.27	90.9
805.	5.26	34.50			27.27	90.7	1000.	4.48	34.54	27.39	80.0
1008.	4.45	34.54			27.39	79.6	1200.	3.84	34.57	27.48	71.5
1209.	3.81	34.57			27.49	71.2	1500.	3.00	34.60	27.59	61.3
1510.	2.98	34.60			27.59	61.0					2.030

CROMWELL DRY BULB 22.9	2, STATION WET BULB 20.9	12, 17-33N LAT, 154- 2W LONG, MAR. 21, 1964, 2000 G.C.T.						VIS. 8	CLOUD	TYPE 4, COVER 7	DYN.DPTH.
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	23.45	34.34			23.32	456.4	0.	23.45	34.34	23.32	456.4
10.	23.54	34.56			23.46	443.4	10.	23.54	34.56	23.46	443.4
30. ^A	23.50	34.58			23.49	441.6	20.	23.54	34.60	23.50	440.5
49.	23.45	34.60			23.52	439.5	30.	23.50	34.58	23.49	441.6
76.	23.36	34.61			23.55	437.3	50.	23.45	34.60	23.52	439.4
100.	23.38	34.67			23.59	434.5	75.	23.36	34.61	23.55	437.4
122.	21.77	34.95			24.26	371.3	100.	23.38	34.67	23.59	434.5
148.	20.59	35.05			24.66	333.9	150.	20.44	35.04	24.70	330.9
173.	18.67	34.89			25.04	298.8	200.	16.54	34.65	25.31	267.7
188.	17.66	34.79			25.21	282.5	250.	12.30	34.74	25.96	211.4
219.	14.69	34.42			25.61	244.8	300.	10.42	34.36	26.40	170.5
246.	12.61	34.26			25.92	215.6	400.	8.48	34.36	26.72	140.9
273.	10.89	34.21			26.20	188.7	500.	6.69	34.33	26.96	118.3
297.	10.48	34.35			26.38	171.9	600.	5.98	34.38	27.09	106.3
395.	8.59	34.36			26.70	142.3	700.	5.43	34.44	27.20	96.3
496.	6.73	34.33			26.95	118.9	800.	4.98	34.48	27.29	88.3
594.	6.02	34.38			27.08	106.9	1000.	4.19	34.52	27.41	77.6
791.	5.02	34.48			27.28	88.9	1200.	3.62	34.56	27.50	69.3
991.	4.22	34.52			27.40	78.0					1.918
1191.	3.68	34.57			27.50	69.5					
1493.	3.03	34.59			27.58	62.3					

^aFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		2, STATION	13, 19- SN LAT, 154- OW LONNG, MAR. 22, 1964, 0500 G.C.T.			BAR. 14 WEATHER 50			VIS. 7	CLOUD	TYPE 6, COVER 8	DYN.DPTH.		
DRY BULB	WET BULB		21.1	WIND SPEED	21, DIR. 09	BAR.	WEATHER	50						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	23.47	34.66			23.56	433.9	0.	23.47	34.66	23.56	433.9	0.000		
10.	23.46	34.66			23.56	434.0	10.	23.46	34.66	23.56	434.0	0.044		
30. ^A	23.38	34.69			23.61	430.4	20.	23.43	34.67	23.58	432.8	0.088		
50. ^A	23.28	34.78			23.71	421.9	30.	23.38	34.69	23.61	430.4	0.131		
75. ^A	23.27	34.79			23.72	421.8	50.	23.28	34.78	23.71	421.9	0.217		
99.	23.26	34.79			23.72	422.4	75.	23.27	34.79	23.72	421.8	0.323		
122.	23.00	34.92			23.89	406.8	100.	23.26	34.79	23.72	422.2	0.430		
146.	21.69	35.05			24.36	362.9	150.	21.37	35.03	24.43	356.1	0.626		
172.	19.78	34.89			24.75	326.1	200.	17.97	34.75	25.11	293.2	0.790		
186.	19.25	34.88			24.88	314.1	250.	12.18	34.23	25.98	209.9	0.916		
219.	15.71	34.51			25.46	259.9	300.	10.20	34.19	26.31	178.8	1.014		
244.	12.70	34.26			25.90	217.4	400.	7.50	34.10	26.66	145.4	1.178		
270.	10.96	34.19			26.17	191.4	500.	6.29	34.25	26.94	118.9	1.311		
293.	10.41	34.20			26.28	181.6	600.	5.66	34.34	27.10	105.1	1.424		
392.	7.64	34.09			26.63	147.9	700.	5.26	34.42	27.21	95.5	1.526		
490.	6.38	34.24			26.92	120.7	800.	4.96	34.48	27.29	88.5	1.619		
588.	5.71	34.33			27.08	106.5	1000.	4.27	34.53	27.41	77.7	1.787		
784.	5.02	34.47			27.27	89.6	1200.	3.67	34.57	27.50	69.5	1.936		
980.	4.34	34.53			27.40	78.7								
1176.	3.73	34.56			27.49	70.7								
1475.	3.01	34.60			27.59	61.2								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.11

CROMWELL		2, STATION	14, 20-31N LAT, 154- OW LONNG, MAR. 23, 1964, 0300 G.C.T.			BAR. 17 WEATHER 03			VIS. 9	CLOUD	TYPE 4, COVER 6	DYN.DPTH.	
DRY BULB	WET BULB		20.4	WIND SPEED	17, DIR. 10	BAR.	WEATHER	03					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.54	34.68			23.56	434.4	0.	23.54	34.68	23.56	434.4	0.000	
10.	23.55	34.69			23.56	434.3	10.	23.55	34.69	23.56	434.3	0.044	
30. ^A	23.55	34.69			23.56	435.1	20.	23.55	34.69	23.56	434.6	0.088	
50. ^A	23.55	34.69			23.56	435.8	30.	23.55	34.69	23.56	435.1	0.132	
75. ^A	23.54	34.69			23.56	436.5	50.	23.55	34.69	23.56	435.8	0.220	
102.	23.49	34.69			23.58	436.2	75.	23.54	34.69	23.56	436.5	0.329	
125.	20.36	34.62			24.40	358.6	100.	23.56	34.69	23.56	438.0	0.440	
151.	16.52	34.84			25.52	251.7	150.	16.66	34.84	25.49	255.0	0.614	
177.	14.36	34.34			25.62	242.6	200.	12.57	34.22	25.90	216.5	0.733	
192.	13.00	34.24			25.82	223.3	250.	10.90	34.18	26.17	190.8	0.836	
226.	11.65	34.22			26.07	200.4	300.	8.77	34.12	26.49	160.7	0.924	
266.	10.23	34.15			26.27	181.7	400.	6.59	34.06	26.76	135.6	1.074	
280.	9.28	34.14			26.42	167.2	500.	5.61	34.14	26.94	118.1	1.202	
304.	8.72	34.12			26.49	160.3	600.	5.10	34.28	27.12	102.5	1.313	
404.	6.52	34.06			26.76	134.7	700.	4.84	34.39	27.23	92.4	1.412	
506.	5.58	34.15			26.96	117.1	800.	4.65	34.46	27.31	85.6	1.502	
607.	5.07	34.29			27.13	101.6	1000.	4.01	34.52	27.42	75.6	1.665	
809.	4.64	34.47			27.32	85.1	1200.	3.55	34.55	27.49	69.5	1.812	
1010.	3.98	34.52			27.43	75.3	1500.	2.96	34.58	27.58	62.2	2.012	
1211.	3.53	34.55			27.50	69.3							
1512.	2.94	34.58			27.58	62.0							

CROMWELL		2, STATION	15, 22 ^r ON LAT, 153-58W LONNG, MAR. 23, 1964, 1200 G.C.T.			BAR. 20 WEATHER 25			VIS. 9	CLOUD	TYPE , COVER	DYN.DPTH.	
DRY BULB	WET BULB		19.8	WIND SPEED	16, DIR. 10	BAR.	WEATHER	25					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	23.39	34.84			23.72	418.7	0.	23.39	34.84	23.72	418.7	0.000	
10.	23.40	34.85			23.72	418.6	10.	23.40	34.85	23.72	418.6	0.043	
94.	23.36	34.89			23.77	417.8	20.	23.42	34.86	23.73	418.6	0.085	
116.	23.22	34.86			23.78	416.9	30.	23.44	34.87	23.73	418.6	0.127	
140.	23.12	35.08			23.98	399.2	50.	23.44	34.89	23.74	419.5	0.211	
164.	22.16	35.14			24.30	369.6	75.	23.41	34.90	23.76	418.2	0.317	
177.	20.93	35.14			24.64	337.5	100.	23.32	34.87	23.76	418.3	0.422	
208.	18.84	34.94			25.03	300.5	150.	22.88	35.12	24.08	390.0	0.426	
233.	17.71	34.82			25.22	283.0	200.	19.29	35.00	24.97	306.6	0.801	
257.	15.88	34.61			25.49	257.5	250.	16.43	34.68	25.42	264.8	0.945	
281.	14.39	34.41			25.67	241.0	300.	13.27	34.31	25.82	226.3	1.069	
374.	9.68	34.13			26.35	176.2	400.	8.84	34.12	26.47	164.3	1.266	
468.	7.17	34.13			26.73	139.4	500.	6.43	34.13	26.83	129.7	1.415	
551.	5.47	34.14			26.96	117.0	600.	5.12	34.20	27.05	108.6	1.535	
750.	4.94	34.42			27.24	91.9	700.	4.05	34.34	27.19	95.9	1.638	
938.	4.20	34.48			27.37	80.2	800.	4.74	34.45	27.29	88.0	1.731	
1130.	3.75	34.52			27.45	73.5	1000.	4.04	34.49	27.40	77.8	1.899	
1423.	3.08	34.57			27.56	63.9	1200.	3.52	34.54	27.49	70.1	2.049	

TEMPERATURE ERROR TERM AT 600. METERS IS 0.16

TEMPERATURE ERROR TERM AT 700. METERS IS 0.17

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 2, STATION 16, 23-31N LAT, 154-2W LONG, MAR. 23, 1964, 2100 G.C.T.												
DRY BULB 22.3	WET BULB 19.4			WIND SPEED 16, DIR. 09	BAR. 21	WEATHER 01	VIS. 9	CLOUD TYPE 8, COVER 2				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.82	35.12			24.10	382.8	0.	22.82	35.12	24.10	382.8	0.000
10.	22.83	35.12			24.09	383.4	10.	22.83	35.12	24.09	383.4	0.039
30. ^A	22.80	35.12			24.10	383.4	20.	22.82	35.12	24.10	383.6	0.078
50. ^A	22.76	35.13			24.12	382.3	30.	22.80	35.12	24.10	383.4	0.116
75. ^A	22.56	35.19			24.22	373.5	50.	22.76	35.13	24.12	382.3	0.193
102.	22.43	35.22			24.28	368.8	75.	22.56	35.19	24.22	373.5	0.299
125.	20.86	35.09			24.62	337.4	100.	22.47	35.22	24.27	369.7	0.382
151.	19.59	35.02			24.90	311.2	150.	19.63	35.02	24.89	312.0	0.554
177.	18.88	34.97			25.05	298.2	200.	17.67	34.81	25.23	281.5	0.704
193.	18.10	34.86			25.16	288.0	250.	14.48	34.46	25.69	238.5	0.935
224.	16.10	34.65			25.47	259.4	300.	12.36	34.26	25.97	212.1	0.948
251.	14.42	34.45			25.69	237.9	400.	9.02	34.09	26.42	169.3	1.141
280.	13.15	34.30			25.84	224.1	500.	6.56	34.06	26.76	136.9	1.295
304.	12.21	34.26			25.99	209.7	600.	5.37	34.17	27.00	114.1	1.422
405.	8.88	34.08			26.44	167.6	700.	4.78	34.29	27.16	99.3	1.530
506.	6.45	34.06			26.77	135.2	800.	4.45	34.38	27.27	89.2	1.625
606.	5.33	34.18			27.01	113.0	1000.	3.91	34.50	27.42	76.1	1.792
808.	4.44	34.39			27.28	88.6	1200.	3.42	34.56	27.51	67.4	1.938
1009.	3.89	34.50			27.42	75.6	1500.	2.83	34.60	27.60	59.1	2.130
1211.	3.40	34.56			27.52	67.0						
1510.	2.81	34.60			27.60	59.4						
CROMWELL 2, STATION 17, 23-32N LAT, 151-4W LONG, MAR. 24, 1964, 1300 G.C.T.												
DRY BULB 20.7	WET BULB 19.9			WIND SPEED 16, DIR. 09	BAR. 19	WEATHER 18	VIS. 9	CLOUD TYPE 8, COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.42	35.14			24.23	370.4	0.	22.42	35.14	24.23	370.4	0.000
10.	22.45	35.17			24.24	369.5	10.	22.45	35.17	24.24	369.5	0.038
30. ^A	22.44	35.18			24.25	369.2	20.	22.45	35.18	24.25	369.2	0.075
50. ^A	22.40	35.18			24.26	368.9	30.	22.44	35.18	24.25	369.2	0.112
75. ^A	22.28	35.18			24.30	366.6	50.	22.40	35.18	24.26	366.9	0.187
99.	21.70	35.17			24.45	352.7	75.	22.28	35.18	24.30	366.6	0.279
123.	20.07	35.03			24.79	321.5	100.	21.64	35.16	24.46	351.4	0.370
147.	19.18	34.96			24.96	305.2	150.	19.04	34.95	24.99	303.0	0.534
173.	17.95	34.83			25.17	285.9	200.	16.64	34.68	25.38	267.2	0.678
187.	17.33	34.76			25.27	277.0	250.	13.41	34.32	25.81	226.7	0.903
220.	15.42	34.55			25.55	250.8	300.	11.71	34.17	26.02	206.7	0.912
257.	13.56	34.34			25.79	228.4	400.	8.70	34.06	26.65	166.4	1.100
273.	12.49	34.23			25.92	216.4	500.	6.75	34.04	26.72	140.3	1.255
297.	11.81	34.18			26.01	207.9	600.	5.75	34.15	26.93	120.8	1.387
395.	8.82	34.06			26.43	168.0	700.	4.93	34.25	27.11	103.5	1.500
495.	6.81	34.04			26.71	141.4	800.	4.33	34.36	27.26	89.5	1.598
594.	5.81	34.14			26.92	121.9	1000.	3.80	34.51	27.44	73.4	1.763
792.	4.36	34.35			27.25	90.4	1200.	3.34	34.58	27.54	64.6	1.902
991.	3.82	34.51			27.44	73.9						
1190.	3.36	34.56			27.52	66.3						
1492.	2.79	34.59			27.60	59.4						
CROMWELL 2, STATION 18, 22-4N LAT, 150-57W LONG, MAR. 24, 1964, 2200 G.C.T.												
DRY BULB 22.4	WET BULB 19.3			WIND SPEED 12, DIR. 13	BAR. 19	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.
0.	22.68	34.91			23.98	394.1	0.	22.68	34.91	23.98	394.1	0.000
10.	22.63	34.91			23.99	393.1	10.	22.63	34.91	23.99	393.1	0.040
101.	22.58	35.05			24.11	385.1	20.	22.61	34.92	24.01	392.0	0.080
124.	22.55	35.06			24.13	384.6	30.	22.59	34.94	24.02	390.9	0.119
150.	22.21	35.12			24.27	371.9	50.	22.57	34.97	24.05	389.0	0.198
174.	21.56	35.26			24.56	345.3	75.	22.56	35.01	24.08	386.9	0.295
190.	20.58	35.11			24.71	331.1	100.	22.58	35.05	24.11	385.2	0.393
222.	19.27	35.06			25.02	302.8	150.	22.21	35.12	24.27	371.9	0.583
254.	17.29	34.75			25.27	279.0	200.	20.16	35.09	24.81	322.2	0.758
282.	15.17	34.47			25.55	253.1	250.	17.57	34.80	25.24	282.0	0.911
306.	12.94	34.28			25.87	222.2	300.	13.49	34.32	25.79	229.7	1.040
407.	9.26	34.13			26.42	170.0	400.	9.35	34.12	26.40	171.9	1.742
510.	6.86	34.12			26.77	136.4	500.	7.03	34.11	26.74	139.2	1.399
611.	5.80	34.28			27.03	111.6	600.	5.88	34.26	27.01	114.0	1.527
814.	4.76	34.42			27.26	90.3	700.	5.23	34.36	27.16	99.6	1.635
1017.	4.05	34.52			27.42	76.2	800.	4.80	34.41	27.26	91.1	1.731
1219.	3.58	34.55			27.49	69.9	1000.	4.10	34.51	27.41	77.1	1.902
1401.	3.07	34.59			27.57	62.2	1200.	3.62	34.55	27.49	70.4	2.051

^AFROM HI DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA								
CROMWELL 2, STATION 19, 20-28N LAT, 151- OW LNG, MAR. 25, 1964, OPGO G.C.T.				DRY BULB 22.1 WET BULB 19.8 WIND SPEED 11, DIR. 12 BAR. 19 WEATHER 18				VIS. 9 CLOUD TYPE 9, COVER 5								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	23.19	34.51			23.53	436.9	0.	23.19	34.51	23.53	436.9	0.000				
10.	23.18	34.51			23.53	437.0	10.	23.18	34.51	23.53	437.0	0.045				
48.	22.61	34.94			24.02	391.8	20.	23.06	34.61	23.64	427.1	0.088				
75.	22.40	35.05			24.16	379.2	30.	22.91	34.71	23.76	415.7	0.130				
100.	22.30	35.11			24.24	373.1	50.	22.59	34.95	24.03	390.5	0.212				
125.	21.36	35.19			24.56	343.3	75.	22.40	35.05	24.16	379.2	0.309				
150.	20.03	35.11			24.86	315.7	100.	22.30	35.11	24.24	373.1	0.403				
174.	18.81	35.01			25.10	293.5	150.	20.03	35.11	24.86	315.7	0.577				
190.	17.95	34.89			25.22	282.2	200.	17.36	34.80	25.29	275.4	0.726				
224.	15.80	34.57			25.48	257.7	250.	13.90	34.35	25.73	234.3	0.854				
249.	13.97	34.36			25.72	235.2	300.	11.07	34.17	26.14	195.4	0.963				
275.	12.29	34.22			25.95	213.4	400.	8.31	34.15	26.58	153.6	1.139				
300.	11.07	34.17			26.14	195.4	500.	6.99	34.22	26.83	130.7	1.232				
400.	8.31	34.15			26.58	153.6	600.	6.07	34.31	27.02	112.7	1.405				
500.	6.99	34.22			26.83	130.7	700.	5.29	34.37	27.17	99.2	1.512				
597.	6.10	34.31			27.02	113.2	800.	4.68	34.42	27.27	89.2	1.608				
800.	4.68	34.42			27.27	89.2	1000.	4.09	34.51	27.41	77.2	1.776				
999.	4.09	34.51			27.41	77.2	1200.	3.53	34.57	27.51	67.6	1.923				
1199.	3.51	34.57			27.52	67.5	1500.	2.87	34.61	27.61	58.9	2.115				
1503.	2.86	34.61			27.61	58.8										

CROMWELL 2, STATION 20, 19- ON LAT, 151- OW LONG, MAR. 25, 1964, 1800 G.C.T.				DRY BULB 22.5 WET BULB 19.7 WIND SPEED 07, DIR. 15 BAR. 16 WEATHER 03				VIS. 8 CLCUD TYPE 4, COVER 6								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	23.73	34.40			23.29	459.9	0.	23.73	34.40	23.29	459.9	0.000				
10.	23.73	34.41			23.30	459.5	10.	23.73	34.41	23.30	459.5	0.047				
30. ^Δ	23.73	34.41			23.30	460.3	20.	23.73	34.41	23.30	459.8	0.093				
50. ^Δ	23.72	34.41			23.30	460.8	30.	23.73	34.41	23.30	460.3	0.139				
75. ^Δ	23.71	34.41			23.30	461.5	50.	23.72	34.41	23.30	460.8	0.232				
98.	23.71	34.41			23.30	462.3	75.	23.71	34.41	23.30	461.5	0.348				
121.	22.80	34.49			23.63	432.2	100.	23.73	34.42	23.30	462.6	0.465				
145.	17.28	34.50			25.08	293.4	150.	16.50	34.46	25.24	278.6	0.652				
170.	14.17	34.30			25.63	241.5	200.	11.92	34.23	26.03	203.5	0.773				
184.	12.98	34.25			25.84	222.0	250.	10.33	34.29	26.36	172.5	0.868				
216.	11.16	34.25			26.18	189.2	300.	9.51	34.38	26.57	153.5	0.950				
242.	10.57	34.31			26.33	175.2	400.	7.32	34.30	26.84	127.9	1.092				
268.	9.88	34.27			26.42	167.1	500.	7.06	34.44	26.99	115.3	1.215				
291.	9.76	34.38			26.53	157.5	600.	5.73	34.41	27.15	100.6	1.324				
346.	8.02	34.30			26.74	137.2	700.	4.44	34.40	27.28	87.0	1.419				
389.	7.47	34.31			26.83	129.1										
461.	6.84	34.32			26.93	120.6										
487.	6.93	34.41			26.98	115.6										
585.	6.09	34.43			27.11	104.0										
589.	5.92	34.42			27.13	102.6										
790.	4.93	34.51			27.32	85.6										

TEMPERATURE ERROR TERM AT 600. METERS IS 0.16
TEMPERATURE ERROR TERM AT 700. METERS IS 0.60

CROMWELL 2, STATION 21, 17-30N LAT, 151- 4W LONG, MAR. 26, 1964, 0300 G.C.T.				DRY BULB 22.2 WET BULB 20.4 WIND SPEED 14, DIR. 15 BAR. 13 WEATHER 02				VIS. 8 CLCUD TYPE 5, COVER 6								
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
1.	23.79	34.46			23.32	457.3	0.	23.79	34.46	23.32	457.2	0.000				
11.	23.63	34.45			23.36	453.9	10.	23.64	34.45	23.35	454.1	0.046				
30. ^Δ	23.48	34.43			23.38	451.9	20.	23.54	34.44	23.37	452.5	0.092				
50. ^Δ	23.42	34.42			23.39	451.7	30.	23.48	34.43	23.38	451.9	0.138				
75. ^Δ	23.40	34.42			23.40	452.1	50.	23.42	34.42	23.39	451.7	0.229				
99.	23.29	34.42			23.43	449.9	75.	23.40	34.42	23.40	452.1	0.342				
124.	21.41	34.71			24.18	379.2	100.	23.23	34.43	23.46	447.6	0.456				
158.	18.73	34.68			24.86	314.9	150.	19.54	34.73	24.70	330.7	0.652				
173.	16.30	34.49			25.31	272.9	200.	14.02	34.35	25.70	235.6	0.795				
188.	14.98	34.42			25.55	250.0	250.	10.89	34.19	26.18	190.0	0.902				
220.	12.57	34.24			25.91	215.8	300.	9.20	34.13	26.43	167.0	0.992				
246.	10.97	34.17			26.15	192.5	400.	6.65	34.14	26.81	130.4	1.142				
272.	10.52	34.26			26.30	178.6	500.	6.41	34.37	27.02	111.7	1.264				
296.	9.36	34.14			26.41	168.8	600.	5.85	34.43	27.15	100.7	1.371				
395.	6.69	34.13			26.80	131.7	700.	5.23	34.48	27.25	91.5	1.469				
493.	6.44	34.36			27.01	112.7	800.	4.78	34.50	27.33	84.2	1.557				
590.	5.91	34.43			27.14	101.7	1000.	4.08	34.55	27.44	74.0	1.717				
787.	4.83	34.50			27.32	85.0	1200.	3.49	34.58	27.52	66.6	1.860				
984.	4.13	34.55			27.44	74.6										
1180.	3.55	34.57			27.51	67.8										
1477.	2.86	34.60			27.60	59.4										

TEMPERATURE ERROR TERM AT 150. METERS IS 0.11

^ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 2, STATION 22, 16° ON LAT, 150-59W LONG, MAR. 26, 1964, 1200 G.C.T. DRY BULB 23.5 WET BULB 21.1 WIND SPEED 14, DIR. 13 BAR. 14 WEATHER 00															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	VIS. 8	CLOUD TYPE	COVER
0.	24.07	34.36			23.16	472.3	0.	24.07	34.36	23.16	472.3	0.000			
10.	24.08	34.37			23.16	472.3	10.	24.08	34.37	23.16	472.3	0.048			
48.	24.01	34.38			23.19	471.0	20.	24.08	34.38	23.17	472.3	0.096			
75. ^Δ	23.82	34.38			23.25	466.7	30.	24.07	34.38	23.17	472.1	0.143			
100.	21.49	34.67			24.13	383.3	50.	24.04	34.37	23.18	472.3	0.238			
123.	19.28	34.84			24.85	315.6	75.	23.82	34.38	23.25	466.7	0.357			
148.	18.12	34.80			25.11	291.3	100.	21.49	34.67	24.13	383.3	0.464			
175.	15.73	34.53			25.47	257.6	150.	17.99	34.79	25.13	289.3	0.633			
189.	13.93	34.35			25.72	233.5	200.	12.88	34.29	25.89	217.3	0.761			
220.	11.53	34.28			26.14	193.7	250.	10.41	34.30	26.35	173.6	0.859			
246.	10.50	34.29			26.33	175.5	300.	9.88	34.45	26.56	154.4	0.942			
275.	10.07	34.36			26.46	163.7	400.	8.00	34.44	26.86	127.3	1.084			
299.	9.90	34.45			26.56	154.8	500.	7.39	34.51	27.00	115.1	1.207			
397.	8.02	34.44			26.85	127.7	600.	6.20	34.47	27.13	102.8	1.317			
496.	7.44	34.51			26.99	115.7	700.	5.49	34.48	27.23	93.9	1.416			
597.	6.23	34.47			27.13	103.1	800.	5.04	34.51	27.30	87.0	1.508			
796.	5.06	34.51			27.30	87.3	1000.	4.34	34.56	27.42	76.6	1.673			
995.	4.36	34.56			27.42	76.8	1200.	3.74	34.58	27.50	69.3	1.921			
1193.	3.76	34.57			27.49	70.4									
1493.	3.01	34.61			27.59	60.6									
CROMWELL 2, STATION 23, 14-28N LAT, 151- OW LONG, MAR. 26, 1964, 2100 G.C.T. DRY BULB 24.3 WET BULB 21.8 WIND SPEED 13, DIR. 07 BAR. 15 WEATHER 01															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	VIS. 9	CLOUD TYPE	COVER 2
0.	24.08	34.47			23.24	464.7	0.	24.08	34.47	23.24	462.2	0.047			
11.	23.97	34.47			23.27	462.0	10.	23.98	34.47	23.27	461.2	0.094			
30. ^Δ	23.90	34.47			23.29	460.7	20.	23.93	34.47	23.28	460.7	0.140			
50. ^Δ	23.84	34.48			23.32	459.1	30.	23.90	34.47	23.29	459.1	0.233			
75. ^Δ	23.82	34.48			23.32	459.5	50.	23.84	34.48	23.32	459.5	0.348			
100.	23.57	34.59			23.48	445.5	75.	23.82	34.48	23.32	445.5	0.462			
124.	20.47	34.93			24.60	338.9	100.	23.57	34.59	23.48	445.5	0.462			
149.	17.26	34.69			25.23	279.3	150.	17.12	34.67	25.26	277.2	0.645			
174.	13.94	34.38			25.74	231.1	200.	11.94	34.42	26.17	190.2	0.762			
190.	12.47	34.40			26.05	201.5	250.	11.15	34.62	26.47	162.4	0.851			
222.	11.37	34.50			26.34	174.7	300.	10.41	34.64	26.62	149.6	0.930			
249.	11.16	34.62			26.47	162.8	400.	9.02	34.59	26.81	132.3	1.072			
275.	10.74	34.65			26.57	153.8	500.	8.19	34.57	26.93	122.6	1.201			
299.	10.43	34.64			26.62	149.8	600.	7.21	34.54	27.05	111.8	1.319			
398.	9.04	34.59			26.81	132.5	700.	6.41	34.53	27.15	102.6	1.427			
498.	8.21	34.57			26.93	122.8	800.	5.75	34.53	27.23	94.9	1.527			
598.	7.23	34.54			27.05	112.0	1000.	4.75	34.54	27.36	83.3	1.708			
793.	5.79	34.53			27.23	95.3	1200.	4.06	34.57	27.46	74.3	1.967			
998.	4.76	34.54			27.36	83.4									
1198.	4.14	34.58			27.46	74.5									
1497.	3.29	34.60			27.56	64.8									
CROMWELL 2, STATION 24, 12-59N LAT, 151- 1W LONG, MAR. 27, 1964, 0500 G.C.T. DRY BULB 24.3 WET BULB 22.2 WIND SPEED 15, DIR. 07 BAR. 14 WEATHER 01															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	VIS. 9	CLOUD TYPE	COVER 3
0.	24.64	34.38			23.00	487.1	0.	24.64	34.38	23.00	487.1	0.000			
10.	24.63	34.37			23.00	487.9	10.	24.63	34.37	23.00	487.9	0.050			
30. ^Δ	24.58	34.36			23.01	488.0	20.	24.66	34.36	22.99	489.6	0.099			
48.	23.84	34.36			23.23	467.7	30.	24.58	34.36	23.01	488.0	0.148			
75.	23.64	34.36			23.28	463.1	50.	23.64	34.36	23.21	469.3	0.245			
99.	20.76	34.99			24.57	341.1	75.	20.64	34.99	24.60	338.3	0.463			
123.	17.88	34.69			25.08	292.8	100.	20.64	34.99	23.28	463.1	0.362			
148.	15.22	34.46			25.53	251.0	150.	14.96	34.44	25.57	247.0	0.610			
174.	12.33	34.36			26.05	201.4	200.	11.41	34.60	26.41	167.3	0.715			
190.	11.56	34.54			26.33	174.5	250.	10.81	34.68	26.58	152.2	0.795			
221.	11.32	34.67			26.48	161.3	300.	10.35	34.68	26.66	145.5	0.870			
247.	10.85	34.68			26.57	152.9	400.	9.10	34.62	26.82	131.3	1.010			
274.	10.57	34.69			26.63	147.9	500.	8.15	34.58	26.94	121.2	1.137			
299.	10.36	34.68			26.66	145.6	600.	7.00	34.53	27.07	109.5	1.254			
399.	9.11	34.62			26.82	131.4	700.	6.14	34.52	27.18	99.6	1.360			
500.	8.15	34.58			26.94	121.2	800.	5.49	34.53	27.27	91.4	1.456			
598.	7.02	34.53			27.07	109.7	1000.	4.56	34.54	27.38	80.8	1.630			
796.	5.51	34.53			27.26	91.6	1200.	3.87	34.56	27.48	72.2	1.785			
996.	4.57	34.54			27.38	81.0									
1195.	3.93	34.57			27.47	72.6									
1496.	3.09	34.60			27.58	62.3									

^ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.3	2, STATION WET BULB 22.7	25, 11-30N LAT, 151-0W LONG, MAR. 27, 1964, 1400 G.C.T.	WIND SPEED 19, DIR. 08	BAR. 12	WEATHER 03	VIS. 8	CLOUD TYPE 6, COVER 7	DYN.DPTH.						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN.DPTH.		
0.	25.90	34.71		22.87	500.1	0.	25.90	34.71	22.87	500.1	0.000			
10. ^A	25.91	34.71		22.86	500.8	10.	25.91	34.71	22.86	500.8	0.051			
30. ^A	25.92	34.70		22.85	502.6	20.	25.92	34.70	22.86	501.8	0.101			
50.	25.92	34.71		22.86	502.7	30.	25.92	34.70	22.85	502.6	0.152			
75. ^A	24.40	34.75		23.35	456.5	50.	25.92	34.71	22.86	502.7	0.253			
101.	15.80	34.42		25.37	264.9	75.	24.40	34.75	23.35	456.5	0.374			
125.	12.62	34.31		25.95	209.2	100.	16.15	34.43	25.30	271.4	0.466			
150.	11.95	34.75		26.42	165.1	150.	11.95	34.75	26.42	165.1	0.576			
176.	11.57	34.76		26.50	158.1	200.	11.09	34.76	26.59	150.4	0.655			
191.	11.23	34.76		26.57	152.4	250.	10.56	34.75	26.68	142.8	0.729			
223.	10.83	34.75		26.63	146.9	300.	10.03	34.72	26.75	137.1	0.900			
250.	10.56	34.75		26.68	142.8	400.	9.29	34.66	26.83	131.3	0.935			
276.	10.28	34.73		26.71	140.1	500.	8.49	34.64	26.94	122.0	1.063			
300.	10.03	34.72		26.75	137.1	600.	7.54	34.59	27.04	112.9	1.182			
401.	9.28	34.66		26.83	131.3	700.	6.67	34.57	27.14	103.5	1.291			
501.	8.48	34.64		26.94	121.9	800.	5.91	34.56	27.24	94.9	1.391			
601.	7.53	34.59		27.04	112.8	1000.	4.82	34.55	27.36	83.5	1.572			
799.	5.92	34.56		27.24	95.0	1200.	4.05	34.57	27.46	74.1	1.731			
998.	4.83	34.55		27.36	83.6									
1198.	4.11	34.58		27.46	74.1									
1497.	3.28	34.61		27.57	63.9									

CROMWELL DRY BULB 26.4	2, STATION WET BULB 23.6	26, 10-3N LAT, 147-58W LONG, MAR. 29, 1964, 0000 G.C.T.	WIND SPEED 15, DIR. 11	BAR. 11	WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 7	DYN.DPTH.				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN.DPTH.
0.	26.69	34.83		22.71	515.1	0.	26.69	34.83	22.71	515.1	0.000	
11.	26.67	34.84		22.72	514.3	10.	26.67	34.84	22.72	514.4	0.052	
30. ^A	26.58	34.85		22.76	511.6	20.	26.63	34.85	22.74	513.1	0.104	
50. ^A	26.44	34.85		22.80	508.2	30.	26.50	34.85	22.76	511.6	0.156	
75. ^A	26.20	34.85		22.88	502.0	50.	26.44	34.85	22.80	508.2	0.258	
102.	13.98	34.41		25.75	227.7	75.	26.20	34.85	22.88	502.0	0.386	
124.	12.80	34.60		26.14	191.4	100.	14.89	34.44	25.58	244.3	0.480	
136.	12.04	34.70		26.37	170.1	150.	11.75	34.76	26.47	161.0	0.592	
146.	11.84	34.75		26.44	163.0	200.	10.99	34.76	26.61	148.7	0.660	
152.	11.71	34.76		26.48	160.1	250.	10.29	34.72	26.70	140.3	0.733	
178.	11.25	34.76		26.56	152.5	300.	9.87	34.70	26.76	135.8	0.902	
194.	11.08	34.76		26.59	149.8	400.	9.25	34.67	26.84	129.9	0.936	
226.	10.57	34.73		26.66	143.9	500.	8.38	34.61	26.93	122.2	1.064	
253.	10.26	34.72		26.71	140.0	600.	7.34	34.57	27.05	111.3	1.182	
281.	10.06	34.71		26.73	138.0	700.	6.47	34.55	27.16	101.7	1.289	
304.	9.83	34.70		26.77	135.3	800.	5.75	34.55	27.25	93.5	1.398	
406.	9.22	34.67		26.84	129.6	1000.	4.68	34.56	27.38	81.0	1.564	
508.	8.30	34.61		26.94	121.4	1200.	3.89	34.59	27.49	70.9	1.718	
608.	7.26	34.57		27.06	110.4	1500.	3.18	34.61	27.58	62.8	1.922	
810.	5.69	34.55		27.26	92.7							
1013.	4.62	34.56		27.39	80.3							
1214.	3.85	34.59		27.50	70.3							
1517.	3.16	34.61		27.58	62.6							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.28

CROMWELL DRY BULB 25.3	2, STATION WET BULB 21.9	27, 11-30N LAT, 147-58W LONG, MAR. 29, 1964, 1100 G.C.T.	WIND SPEED 20, DIR. 07	BAR. 13	WEATHER 03	VIS. 9	CLOUD TYPE , COVER	DYN.DPTH.				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELT A	DEPTH	TEMP.	SAL.	SIGMA-T	DELT A	DYN.DPTH.
0.	26.01	34.72		22.84	502.6	0.	26.01	34.72	22.84	502.6	0.000	
11. ^A	26.03	34.72		22.83	503.7	10.	26.03	34.72	22.83	503.6	0.051	
30. ^A	26.04	34.72		22.83	504.7	20.	26.04	34.72	22.83	504.2	0.102	
49.	26.05	34.72		22.83	505.8	30.	26.04	34.72	22.83	504.7	0.153	
75. ^A	24.80	34.77		23.25	466.5	50.	26.06	34.72	22.83	506.0	0.255	
100.	19.20	34.81		24.84	315.0	75.	24.80	34.77	23.25	466.5	0.377	
123.	15.25	34.44		25.30	252.3	100.	19.20	34.81	24.84	315.0	0.476	
149.	12.47	34.66		26.25	181.4	150.	12.39	34.66	26.27	180.1	0.600	
173.	11.31	34.63		26.45	163.0	200.	11.13	34.73	26.56	153.0	0.684	
187.	11.28	34.71		26.52	156.9	250.	10.28	34.71	26.70	141.1	0.758	
221.	10.77	34.72		26.62	148.0	300.	9.92	34.70	26.75	136.9	0.828	
247.	10.31	34.71		26.69	141.4	400.	9.01	34.64	26.85	128.5	0.962	
273.	10.10	34.70		26.72	139.2	500.	7.97	34.59	26.98	117.8	1.087	
298.	9.94	34.70		26.75	137.0	600.	6.99	34.56	27.09	107.2	1.200	
396.	9.05	34.64		26.35	128.9	700.	6.16	34.54	27.19	98.6	1.304	
496.	8.01	34.59		26.97	118.3	800.	5.49	34.53	27.27	91.4	1.400	
594.	7.04	34.56		27.09	107.8	1000.	4.55	34.56	27.40	79.3	1.573	
792.	5.54	34.53		27.26	92.0	1200.	3.83	34.58	27.49	70.6	1.725	
989.	4.60	34.56		27.39	79.8							
1187.	3.88	34.57		27.48	71.9							
1483.	3.11	34.62		27.59	61.0							

^AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL		2, STATION 28, 13- 3N LAT, 147-58W LONG, MAR. 29, 1964, 2000 G.C.T.		DRY BULB 25.5 WET BULB 21.8 WIND SPEED 18, DIR. 07 BAR. 15 WEATHER 03				VIS. 9		CLOUD TYPE 8, COVER 4					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.53	34.35**			23.01	486.1	0.	24.53	34.35	23.01	486.1	0.000			
10.	24.54	34.35**			23.01	486.8	10.	24.54	34.35	23.01	486.8	0.049			
30. ^A	24.46	34.34			23.03	486.0	20.	24.52	34.35	23.01	486.8	0.099			
50.	24.25	34.33			23.08	481.5	30.	24.46	34.34	23.03	486.0	0.148			
75. ^A	23.36	34.46			23.44	448.1	50.	24.25	34.33	23.08	481.5	0.245			
100.	19.80	34.72			24.62	336.3	75.	23.36	34.46	23.44	448.1	0.362			
124.	17.31	34.64			25.18	283.3	100.	19.80	34.72	24.62	336.3	0.461			
149.	14.12	34.37			25.69	234.8	150.	14.02	34.37	25.71	233.0	0.604			
171.	12.35	34.36			26.04	201.7	200.	10.75	34.33	26.32	176.0	0.707			
190.	11.19	34.32			26.23	184.0	250.	9.91	34.45	26.56	154.0	0.791			
220.	10.16	34.37			26.45	163.3	300.	9.63	34.56	26.69	142.2	0.865			
248.	9.90	34.44			26.55	154.5	400.	8.62	34.56	26.85	128.1	1.002			
276.	9.94	34.54			26.62	148.3	500.	7.73	34.56	26.99	116.4	1.125			
299.	9.64	34.56			26.69	142.4	600.	6.73	34.53	27.11	105.7	1.237			
397.	8.65	34.56			26.85	128.5	700.	5.93	34.52	27.21	96.5	1.339			
496.	7.77	34.56			26.98	116.9	800.	5.30	34.53	27.29	88.9	1.433			
594.	6.78	34.53			27.10	106.3	1000.	4.39	34.55	27.41	77.8	1.602			
790.	5.36	34.53			27.28	89.6	1200.	3.70	34.58	27.50	69.2	1.751			
985.	4.45	34.55			27.40	78.6									
1181.	3.78	34.58			27.50	69.9									
1480.	3.04	34.61			27.59	60.9									
CROMWELL		2, STATION 29, 14-30N LAT, 147-58W LONG, MAR. 30, 1964, 0500 G.C.T.		DRY BULB 23.5 WET BULB 20.5 WIND SPEED 20, DIR. 08 BAR. 15 WEATHER 02				VIS. 8		CLOUD TYPE 8, COVER 5					
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.31	34.32			23.06	482.0	0.	24.31	34.32	23.06	482.0	0.000			
9.	24.33	34.32			23.05	482.9	10.	24.33	34.32	23.05	483.0	0.049			
30. ^A	24.32	34.31			23.05	484.2	20.	24.33	34.31	23.05	483.7	0.098			
48.	24.31	34.31			23.05	484.6	30.	24.32	34.31	23.05	484.2	0.147			
75. ^A	24.08	34.31			23.12	479.1	50.	24.30	34.31	23.05	484.5	0.244			
98.	23.58	34.34			23.29	463.7	75.	24.08	34.31	23.12	479.1	0.365			
122.	18.00	34.45			24.87	313.0	100.	23.19	34.35	23.41	452.0	0.483			
146.	13.67	34.27			25.71	233.0	150.	13.33	34.27	25.78	226.1	0.654			
172.	12.28	34.35			26.05	201.1	200.	11.22	34.41	26.30	178.0	0.755			
187.	11.71	34.39			26.19	188.1	250.	9.91	34.49	26.59	150.9	0.838			
219.	10.59	34.44			26.43	165.4	300.	9.30	34.52	26.71	139.8	0.912			
245.	9.98	34.49			26.56	152.0	400.	7.85	34.48	26.91	122.4	1.044			
271.	9.66	34.49			26.63	147.3	500.	6.84	34.47	27.04	110.2	1.161			
296.	9.36	34.52			26.70	140.7	600.	5.99	34.47	27.16	99.9	1.268			
394.	7.92	34.48			26.90	123.2	700.	5.35	34.49	27.25	91.5	1.364			
493.	6.91	34.47			27.03	111.0	800.	4.85	34.51	27.33	84.5	1.453			
592.	6.05	34.47			27.15	100.6	1000.	4.05	34.55	27.45	73.7	1.613			
790.	4.90	34.51			27.32	85.2	1200.	3.50	34.58	27.52	66.8	1.756			
988.	4.09	34.55			27.44	74.2									
1185.	3.58	34.57			27.51	68.2									
1429.	3.02	34.60			27.59	61.0									
CROMWELL		2, STATION 30, 15-57N LAT, 148- 5W LONG, MAR. 30, 1964, 1400 G.C.T.		DRY BULB 22.3 WET BULB 19.0 WIND SPEED 21, DIR. 08 BAR. 15 WEATHER 03				VIS. 8		CLOUD TYPE 6, COVER 6					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	23.84	34.33			23.20	468.0	0.	23.84	34.33	23.20	468.0	0.000			
10.	23.83	34.33			23.21	468.1	10.	23.83	34.33	23.21	468.1	0.048			
48.	23.49	34.45			23.40	451.4	20.	23.80	34.32	23.21	468.2	0.095			
77.	22.78	34.97			23.99	395.4	30.	23.72	34.34	23.25	465.0	0.142			
104.	22.64	34.98			24.04	391.9	50.	23.44	34.49	23.44	447.3	0.234			
124.	20.13	34.92			24.69	331.0	75.	22.83	34.94	23.96	399.0	0.340			
150.	18.87	34.96			25.04	297.8	100.	22.76	35.00	24.02	393.9	0.440			
177.	15.53	34.44			25.44	259.9	150.	18.87	34.96	25.04	297.8	0.614			
194.	13.54	34.25			25.72	233.2	200.	13.01	34.25	25.83	222.8	0.746			
223.	11.62	34.38			26.20	188.1	250.	11.07	34.52	26.41	168.6	0.844			
250.	11.07	34.52			26.41	168.6	300.	10.35	34.56	26.57	154.2	0.926			
279.	10.69	34.56			26.51	159.7	400.	9.14	34.55	26.76	137.0	1.073			
304.	10.28	34.56			26.58	153.2	500.	7.98	34.52	26.92	122.9	1.204			
405.	9.09	34.55			26.77	136.4	600.	6.78	34.49	27.07	109.2	1.321			
507.	7.90	34.52			26.93	121.9	700.	5.97	34.49	27.17	99.8	1.427			
606.	6.71	34.49			27.05	108.4	800.	5.42	34.50	27.25	92.9	1.524			
809.	5.38	34.50			27.26	92.3	1000.	4.58	34.54	27.38	81.3	1.700			
1009.	4.55	34.54			27.38	80.8	1200.	3.87	34.56	27.47	72.4	1.856			
1185.	3.91	34.56			27.47	73.0									
1397.	3.30	34.57			27.54	66.4									

^AFROM BT DATA

**EXTRAPOLATED VALUE

Table 2--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 2, STATION 31, 17-30N LAT, 147-58W LCNG, MAR. 31, 1964, 0200 G.C.T.					WEATHER 01		VIS. 8	CLOUD TYPE 8, COVER 6				
DRY BULB 23.4	WET BULB 19.1	WIND SPEED 25, DIR. 08	BAR. 17		DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.29	34.45			23.45	444.0	0.	23.29	34.45	23.45	444.0	0.000
8.	23.30	34.45			23.45	444.6	10.	23.30	34.45	23.45	444.8	0.045
46. ^A	23.26	34.44			23.46	445.7	20.	23.30	34.45	23.45	445.3	0.090
75. ^A	23.20	34.46			23.49	448.7	30.	23.29	34.44	23.45	445.7	0.135
99.	23.02	34.47			23.55	438.9	50.	23.26	34.44	23.46	445.6	0.225
124.	20.58	34.74			24.43	355.5	75.	23.20	34.46	23.49	443.7	0.337
149.	19.07	34.85			24.91	310.6	100.	22.94	34.48	23.58	435.9	0.448
173.	17.32	34.71			25.23	280.0	150.	19.01	34.85	24.92	309.2	0.635
189.	15.61	34.48			25.45	259.0	200.	14.45	34.36	25.62	243.4	0.775
222.	12.32	34.22			25.94	212.6	250.	10.25	34.17	26.28	180.1	0.831
247.	10.37	34.18			26.27	181.4	300.	10.12	34.43	26.50	160.3	0.967
273.	9.84	34.17			26.35	173.9	400.	9.07	34.52	26.75	138.2	1.118
297.	10.12	34.41			26.49	161.4	500.	7.50	34.47	26.95	119.9	1.248
397.	9.12	34.52			26.74	138.9	600.	6.58	34.46	27.07	108.6	1.363
486.	7.67	34.47			26.93	121.8	700.	5.92	34.48	27.17	99.5	1.469
594.	6.62	34.46			27.07	109.2	800.	5.42	34.51	27.26	91.9	1.565
791.	5.47	34.51			27.25	92.5	1000.	4.51	34.54	27.39	80.1	1.739
990.	4.55	34.54			27.38	80.6	1200.	3.83	34.58	27.49	70.9	1.892
1190.	3.89	34.58			27.49	71.3						
1429.	3.22	34.60			27.57	63.4						

CROMWELL 2, STATION 32, 19-3N LAT, 147-57W LONG, MAR. 31, 1964, 1200 G.C.T.								INTERPOLATED DATA				
CROMWELL 2, STATION 32, 19-3N LAT, 147-57W LONG, MAR. 31, 1964, 1200 G.C.T.					WEATHER 00		VIS. 8	CLOUD TYPE , COVER				
DRY BULB 20.9	WET BULB 17.1	WIND SPEED 26, DIR. 07	BAR. 21		DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.70	34.79			23.88	403.3	0.	22.70	34.79	23.88	403.3	0.000
9.	22.72	34.80			23.88	403.5	10.	22.72	34.80	23.88	403.6	0.041
47.	22.72	34.79			23.88	405.6	20.	22.73	34.79	23.88	404.6	0.082
99.	22.58	34.98			24.06	390.1	30.	22.73	34.79	23.87	405.2	0.123
120.	22.51	35.06			24.14	383.2	50.	22.71	34.80	23.88	405.1	0.204
144.	21.60	35.14			24.46	353.9	75.	22.66	34.88	23.96	398.7	0.305
171.	20.06	35.08			24.83	319.3	100.	22.58	34.98	24.06	390.0	0.405
185.	19.40	35.02			24.95	307.6	150.	21.27	35.14	24.54	345.6	0.590
216.	17.68	34.81			25.22	282.5	200.	18.71	34.95	25.07	296.5	0.752
240.	15.04	34.41			25.53	253.5	250.	14.28	34.31	25.62	244.9	0.988
268.	13.10	34.22			25.79	228.7	300.	11.07	34.23	26.18	191.3	0.998
292.	11.42	34.22			26.11	197.8	400.	8.81	34.32	26.64	148.7	1.170
390.	9.01	34.32			26.60	151.7	500.	7.22	34.32	26.88	126.3	1.309
488.	7.38	34.32			26.85	128.7	600.	6.18	34.37	27.05	110.0	1.428
585.	6.29	34.36			27.03	111.9	700.	5.56	34.41	27.17	99.7	1.534
780.	5.24	34.45			27.23	93.8	800.	5.15	34.46	27.25	92.5	1.631
976.	4.48	34.50			27.36	82.6	1000.	4.39	34.50	27.37	81.4	1.807
1171.	3.80	34.53			27.45	73.7	1200.	3.73	34.54	27.47	72.3	1.963
1468.	3.04	34.58			27.57	63.0						

CROMWELL 2, STATION 33, 20-26N LAT, 147-56W LCNG, MAR. 31, 1964, 2000 G.C.T.								INTERPOLATED DATA				
CROMWELL 2, STATION 33, 20-26N LAT, 147-56W LCNG, MAR. 31, 1964, 2000 G.C.T.					WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 7				
DRY BULB 21.8	WET BULB 17.5	WIND SPEED 20, DIR. 07	BAR. 23		DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	22.19	35.08			24.25	368.6	0.	22.19	35.08	24.25	368.6	0.000
10.	22.20	35.09			24.25	368.5	10.	22.20	35.09	24.25	368.5	0.038
97.	22.18	35.10			24.26	370.5	20.	22.21	35.09	24.25	369.3	0.075
121.	22.10	35.14			24.32	366.4	30.	22.22	35.09	24.24	369.9	0.112
146.	21.78	35.15			24.41	358.0	50.	22.23	35.09	24.24	370.8	0.187
171.	20.10	35.08			24.82	320.4	75.	22.21	35.09	24.25	371.0	0.280
185.	19.79	35.11			24.92	310.9	100.	22.18	35.11	24.27	370.2	0.373
217.	18.04	34.84			25.16	288.8	150.	21.51	35.14	24.48	352.0	0.555
243.	15.74	34.52			25.46	260.6	200.	19.13	35.02	25.02	301.5	0.720
268.	13.86	34.29			25.69	238.6	250.	15.18	34.45	25.52	254.1	0.860
292.	12.29	34.14			25.89	219.7	300.	11.91	34.12	25.95	214.0	0.978
389.	9.10	34.17			26.47	164.2	400.	8.80	34.17	26.52	160.0	1.167
487.	6.92	34.14			26.77	135.4	500.	6.74	34.14	26.80	132.8	1.315
584.	5.89	34.20			26.96	118.4	600.	5.78	34.22	26.98	116.0	1.440
779.	4.96	34.40			27.23	93.9	700.	5.24	34.32	27.13	102.6	1.551
975.	4.18	34.50			27.39	78.8	800.	4.87	34.41	27.25	91.9	1.649
1170.	3.68	34.54			27.47	71.5	1000.	4.11	34.51	27.40	77.7	1.821
1468.	2.93	34.58			27.58	61.6	1200.	3.54	34.56	27.50	68.9	1.969

^aFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB 20.8	STATION WET BULB 17.8	34, 22- ON LAT, 147-58W LONG, APR. 1, 1964, 0600 G.C.T.		WIND SPEED 22, DIR. 07	BAR. 23	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 5	DEPTH	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.55	34.92	24.02	389.8	0.	22.55	34.92	24.02	389.8	0.000			
9.	22.55	34.93	24.03	389.5	10.	22.55	34.93	24.03	389.3	0.040			
30. ^Δ	22.55	34.98	24.07	386.7	20.	22.55	34.96	24.05	388.0	0.079			
50. ^Δ	22.54	35.00	24.09	385.7	30.	22.55	34.98	24.07	386.7	0.118			
75. ^Δ	22.53	35.04	24.12	383.5	50.	22.54	35.00	24.09	385.7	0.196			
94.	22.53	35.08	24.15	381.3	75.	22.53	35.04	24.12	383.5	0.293			
116.	21.85	35.11	24.36	361.7	100.	22.40	35.09	24.19	377.4	0.388			
140.	20.63	35.13	24.71	329.2	150.	20.38	35.13	24.78	323.4	0.565			
168.	19.86	35.08	24.88	314.2	200.	18.27	34.89	25.14	289.9	0.720			
181.	19.12	35.00	25.01	302.0	250.	15.43	34.51	25.51	255.1	0.857			
211.	17.75	34.82	25.21	283.2	300.	12.62	34.26	25.92	217.2	0.976			
234.	16.22	34.61	25.42	264.3	400.	8.59	34.21	26.58	153.6	1.163			
262.	14.87	34.44	25.59	248.3	500.	7.86	34.36	26.82	132.7	1.308			
286.	13.47	34.31	25.78	229.8	600.	6.73	34.39	27.00	115.8	1.433			
380.	8.90	34.18	26.51	160.1	700.	5.86	34.44	27.15	102.1	1.543			
477.	8.12	34.35	26.77	137.3	800.	5.19	34.47	27.25	92.1	1.641			
571.	7.02	34.38	26.95	120.4	1000.	4.25	34.50	27.39	79.8	1.815			
760.	5.44	34.46	27.22	95.5	1200.	3.58	34.54	27.49	70.3	1.967			
951.	4.44	34.49	27.36	82.6									
1142.	3.80	34.54	27.46	72.7									
1429.	3.09	34.58	27.56	63.3									

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL DRY BULB 20.8	STATION WET BULB 16.4	35, 23-30N LAT, 147-59W LONG, APR. 1, 1964, 1500 G.C.T.		WIND SPEED 20, DIR. 09	BAR. 24	WEATHER 00	VIS. 8	CLOUD TYPE 8, COVER	DEPTH	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	22.00	35.16	24.36	357.7	0.	22.00	35.16	24.36	357.7	0.000			
8.	22.02	35.17	24.36	357.8	10.	22.02	35.17	24.36	357.9	0.036			
47. ^Δ	22.03	35.16	24.35	360.3	20.	22.03	35.17	24.36	358.5	0.072			
75. ^Δ	22.03	35.17	24.36	360.6	30.	22.04	35.17	24.36	359.2	0.108			
95.	21.43	35.29	24.62	336.8	50.	22.05	35.16	24.34	361.3	0.181			
117.	21.29	35.30	24.66	333.2	75.	22.03	35.17	24.36	360.6	0.272			
143.	21.06	35.29	24.72	328.9	100.	21.38	35.30	24.64	334.9	0.359			
168.	20.48	35.32	24.90	312.6	150.	20.95	35.30	24.76	325.2	0.526			
185.*	19.68	35.25	25.06	298.0	200.	18.77	35.17	25.23	281.7	0.679			
213.	17.99	35.10	25.37	268.7	250.	16.64	34.91	25.55	252.6	0.813			
251.*	16.60	34.90	25.55	252.3	300.	10.17	34.06	26.21	187.8	0.924			
264.	15.70	34.76	25.65	242.9	400.	7.73	34.03	26.57	153.7	1.097			
272.*	14.26	34.48	25.75	233.0	500.	6.00	34.05	26.83	129.5	1.240			
297.	10.39	34.08	26.19	190.2	600.	4.95	34.15	27.03	110.7	1.361			
372.	8.36	34.04	26.49	161.9	700.	4.48	34.28	27.18	96.4	1.466			
446.	6.84	34.03	26.70	141.9	800.	4.28	34.40	27.30	86.1	1.558			
595.	4.98	34.14	27.02	111.5	1000.	3.88	34.52	27.44	73.8	1.720			
747.	4.39	34.34	27.24	91.1	1200.	3.44	34.54	27.50	68.8	1.864			
900.	4.12	34.48	27.38	78.9									
1131.	3.57	34.54	27.49	69.9									
1200.**	3.44**	34.54**	27.50	68.8									

CROMWELL DRY BULB 20.2	STATION WET BULB 17.8	36, 25- ON LAT, 148- OW LNG, APR. 2, 1964, 0100 G.C.T.		WIND SPEED 21, DIR. 07	BAR. 25	WEATHER 02	VIS. 8	CLOUD TYPE 6, COVER 7	DEPTH	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	21.91	35.07	24.32	361.8	0.	21.91	35.07	24.32	361.8	0.000			
10.	21.91	35.07	24.32	362.2	10.	21.91	35.07	24.32	362.2	0.037			
49.	21.70	35.16	24.44	351.6	20.	21.87	35.09	24.34	360.4	0.073			
102.	21.42	35.27	24.60	338.2	30.	21.82	35.11	24.37	357.9	0.110			
125.	21.17	35.31	24.70	329.6	50.	21.70	35.16	24.45	351.4	0.181			
150.	19.73	35.12	24.94	307.4	75.	21.59	35.22	24.52	345.5	0.269			
175.	18.28	34.92	25.16	287.3	100.	21.43	35.27	24.60	338.8	0.355			
191.	17.66	34.82	25.24	280.5	150.	19.73	35.12	24.94	307.4	0.518			
223.	15.17	34.46	25.54	252.1	200.	17.02	34.72	25.32	273.0	0.664			
251.	13.33	34.24	25.76	231.3	250.	13.39	34.25	25.75	232.0	0.791			
278.	11.65	34.10	25.98	210.4	300.	10.85	34.09	26.11	197.5	0.900			
301.	10.82	34.09	26.12	196.9	400.	8.62	34.04	26.45	166.4	1.083			
401.	8.60	34.04	26.45	166.1	500.	6.10	34.06	26.82	130.6	1.233			
502.	6.06	34.06	26.82	129.9	600.	5.31	34.14	26.98	115.8	1.358			
603.	5.30	34.14	26.98	115.5	700.	4.76	34.25	27.13	101.9	1.468			
803.	4.34	34.36	27.26	89.5	800.	4.35	34.36	27.26	89.9	1.564			
1003.	3.86	34.49	27.42	76.0	1000.	3.87	34.49	27.42	76.1	1.732			
1204.	3.48	34.54	27.49	69.3	1200.	3.49	34.54	27.49	69.4	1.880			
1505.	2.84	34.58	27.59	60.8	1500.	2.85	34.58	27.59	60.9	2.078			

^ΔFROM BT DATA

*INTERPOLATED VALUE

**EXTRAPOLATED VALUE

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA													
CROMWELL DRY BULB 20.2	2, STATION WET BULB 16.8	37, 26-30N LAT, 148- OW LONG, APR. WIND SPEED 19, DIR. 10		2, 1964, 1000 G.C.T. BAR. 27	WEATHER 02	VIS. 8	CLOUD TYPE , COVER	DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	21.10	35.33		24.74	321.8	0.		21.10	35.33	24.74		321.7	0.000								
10.	21.10	35.32		24.73	322.8	10.		21.10	35.32	24.73		322.8	0.033								
98.	21.13	35.34		24.74	325.4	20.		21.10	35.32	24.73		323.2	0.065								
121.	21.12	35.32		24.72	327.4	30.		21.11	35.32	24.73		323.6	0.098								
141.	20.85	35.28		24.77	324.0	50.		21.12	35.33	24.73		324.3	0.163								
170.	20.47	35.29		24.88	314.6	75.		21.12	35.33	24.73		324.9	0.245								
185.	19.55	35.10		24.97	305.6	100.		21.14	35.34	24.73		325.7	0.327								
218.	17.60	34.81		25.24	280.7	150.		20.83	35.31	24.79		322.0	0.490								
243.	16.03	34.62		25.47	259.6	200.		18.67	34.95	25.09		294.9	0.646								
268.	14.55	34.44		25.66	241.8	250.		15.61	34.57	25.52		254.5	0.784								
292.	13.14	34.29		25.83	225.0	300.		12.80	34.26	25.88		220.4	0.904								
389.	10.10	34.16		26.30	181.3	400.		9.78	34.14	26.34		177.5	1.105								
487.	7.59	34.03		26.59	153.1	500.		7.34	34.02	26.62		150.3	1.270								
583.	6.08	34.02		26.79	134.2	600.		5.89	34.04	26.83		130.6	1.412								
768.	4.60	34.27		27.16	99.0	700.		4.99	34.16	27.03		111.1	1.534								
970.	3.91	34.46		27.39	78.5	800.		4.45	34.31	27.21		94.8	1.638								
1164.	3.47	34.53		27.49	69.7	1000.		3.83	34.48	27.41		76.7	1.912								
1455.	2.92	34.58		27.58	61.4	1200.		3.36	34.56	27.52		66.6	1.957								

CROMWELL DRY BULB 22.0	2, STATION WET BULB 19.0	38, 25- 4N LAT, 150-57W LONG, APR. WIND SPEED 12, DIR. 13		3, 1964, 0400 G.C.T. BAR. 23	WEATHER 01	VIS. 9	CLOUD TYPE 8, COVER 4
0.	22.25	35.21		24.33	360.8	0.	
10.	22.28	35.21		24.32	362.0	10.	
30. ^A	22.27	35.22		24.33	361.8	20.	
50.	21.78	35.25		24.49	347.2	30.	
75. ^A	21.46	35.25		24.58	339.7	50.	
103.	20.80	35.26		24.77	322.8	75.	
126.	20.66	35.32		24.85	315.7	100.	
153.	19.79	35.16		24.96	306.1	150.	
179.	18.00	34.98		25.20	283.7	200.	
194.	16.78	34.70		25.35	269.0	250.	
227.	14.96	34.46		25.58	247.8	300.	
254.	13.36	34.30		25.80	227.6	400.	
283.	12.27	34.24		25.97	211.7	500.	
307.	11.36	34.15		26.07	202.2	600.	
409.	8.64	34.10		26.45	162.5	700.	
511.	6.32	34.08		26.81	132.0	800.	
612.	5.26	34.14		26.99	115.1	1000.	
815.	4.17	34.34		27.27	89.1	1200.	
1018.	3.68	34.50		27.44	73.2	1500.	
1221.	3.25	34.54		27.52	66.7		
1523.	2.74	34.58		27.60	59.7		

CROMWELL DRY BULB 23.0	2, STATION WET BULB 19.8	39, 24-59N LAT, 154- 1W LONG, APR. WIND SPEED 16, DIR. 15		3, 1964, 2000 G.C.T. BAR. 23	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 3
1.	22.52	35.21		24.25	368.1	0.	
11.	22.56	35.20		24.23	370.3	10.	
50.	22.43	35.20		24.27	368.3	20.	
76.	22.11	35.24		24.35	357.8	30.	
101.	21.40	35.17		24.53	344.9	50.	
126.	20.46	35.12		24.75	325.0	75.	
152.	19.56	35.04		24.93	309.0	100.	
177.	18.59	34.95		25.11	292.6	150.	
192.	17.90	34.88		25.22	281.8	200.	
225.	16.28	34.68		25.46	260.3	250.	
252.	14.85	34.50		25.64	243.2	300.	
278.	13.10	34.32		25.87	221.6	400.	
303.	12.26	34.23		25.96	212.8	500.	
403.	9.33	34.14		26.41	170.4	600.	
503.	7.19	34.07		26.68	144.7	700.	
604.	5.38	34.08		26.92	121.0	800.	
804.	4.29	34.49		27.37	79.3	1000.	
1004.	3.85	34.54		27.46	72.2	1200.	
1204.	3.39	34.54		27.50	68.3		
1451.	2.86	34.58		27.58	60.7		

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

^AFROM BT DATA

Table 2.--Continued

ORIGINAL DATA							DERIVED DATA							INTERPOLATED DATA										
CROMWELL	2, STATION	40, 24-57N LAT, 157- SW LONG, APR.	4, 1964, 1400 G.C.T.	DRY BULB 23.4	WET BULB 20.3	WIND SPEED 20, DIR. 15	BAK. 19	WEATHER 00	VIS. 9	CLOUD TYPE	COVER	DEPTH	TEMP.	SAL.	OXY.	PO4-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.	23.09	35.16		24.05	387.7	10.	23.09	35.16	24.05	387.7	0.040	
												49.	22.98	35.17		24.09	385.4	20.	23.11	35.16	24.05	388.3	0.079	
												103.	21.71	35.24		24.50	348.1	30.	23.09	35.17	24.05	388.1	0.118	
												125.	20.70	35.16		24.72	328.2	50.	22.97	35.17	24.09	385.0	0.196	
												150.	19.07	35.00		25.02	299.8	75.	22.56	35.22	24.25	371.0	0.291	
												178.	17.39	34.82		25.30	273.8	100.	21.82	35.24	24.47	350.9	0.382	
												194.	16.54	34.76		25.46	259.3	150.	19.07	35.00	25.02	299.8	0.546	
												226.	14.83	34.56		25.69	237.7	200.	16.24	34.73	25.50	255.0	0.685	
												251.	13.15	34.36		25.89	219.0	250.	13.21	34.37	25.88	219.6	0.805	
												281.	12.25	34.28		26.00	208.4	300.	11.78	34.25	26.07	202.5	0.912	
												306.	11.64	34.24		26.09	200.7	400.	9.26	34.12	26.41	170.8	1.100	
												408.	9.06	34.11		26.43	168.3	500.	7.05	34.06	26.69	143.4	1.258	
												510.	6.86	34.06		26.72	140.9	600.	5.41	34.13	26.96	117.8	1.390	
												611.	5.27	34.14		26.98	115.2	700.	4.63	34.22	27.12	102.2	1.502	
												814.	4.28	34.33		27.25	91.1	800.	4.29	34.32	27.23	92.2	1.600	
												1016.	3.72	34.49		27.43	74.4	1000.	3.76	34.48	27.42	75.4	1.769	
												1218.	3.23	34.54		27.52	66.5	1200.	3.27	34.54	27.51	67.0	1.914	
												1520.	2.66	34.61		27.63	56.5	1500.	2.69	34.61	27.62	56.9	2.102	

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL	2, STATION	41, 23-25N LAT, 157- OW LONG, APR.	4, 1964, 2300 G.C.T.	DRY BULB 23.5	WET BULB 20.5	WIND SPEED 14, DIR. 18	BAR. 21	WEATHER 01	VIS. 9	CLOUD TYPE 8, COVER 3	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
											0.	23.29	35.15		23.98	393.5	0.	23.29	35.15	23.98	393.5	0.000	
											9.	23.23	35.15		24.00	392.2	10.	23.23	35.15	24.00	392.3	0.040	
											47.	23.23	35.16		24.01	392.9	20.	23.23	35.14	23.99	393.2	0.080	
											71.	22.99	35.26		24.15	380.0	30.	23.23	35.14	23.99	393.6	0.119	
											95.	22.30	35.28		24.37	360.7	50.	23.22	35.17	24.02	391.8	0.198	
											118.	21.50	35.20		24.53	346.0	75.	22.90	35.27	24.19	376.9	0.295	
											142.	20.21	35.11		24.81	319.9	100.	22.15	35.27	24.40	357.8	0.388	
											165.	19.27	35.04		25.00	302.3	150.	19.91	35.09	24.88	313.8	0.557	
											179.	18.33	34.92		25.15	288.6	200.	17.33	34.82	25.31	273.4	0.705	
											210.	16.95	34.78		25.38	267.6	250.	14.98	34.55	25.65	242.0	0.835	
											234.	16.00	34.66		25.50	255.8	300.	12.65	34.38	26.00	209.5	0.949	
											259.	14.40	34.50		25.74	234.1	400.	9.28	34.14	26.42	169.4	1.140	
											282.	13.39	34.43		25.89	219.4	500.	6.96	34.05	26.70	142.5	1.297	
											374.	10.04	34.19		26.33	177.8	600.	5.60	34.14	26.94	119.6	1.430	
											468.	7.61	34.06		26.61	150.9	700.	5.03	34.29	27.13	102.4	1.542	
											560.	5.97	34.08		26.85	128.0	800.	4.73	34.39	27.25	91.8	1.640	
											746.	4.93	34.36		27.20	96.2	1000.	4.09	34.47	27.38	80.0	1.814	
											933.	4.32	34.44		27.33	84.6	1200.	3.47	34.55	27.50	68.6	1.964	
											1120.	3.70	34.53		27.46	72.1							
											1348.	3.05	34.59		27.58	61.6							

CROMWELL	2, STATION	42, 22- ON LAT, 157- OW LONG, APR.	5, 1964, 0700 G.C.T.	DRY BULB 23.7	WET BULB 20.7	WIND SPEED 10, DIR. 21	BAR. 20	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 3	DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
											0.	23.42	35.02		23.85	406.5	0.	23.42	35.02	23.85	406.5	0.000	
											9.	23.40	35.02		23.85	406.3	10.	23.40	35.02	23.86	406.0	0.041	
											46.	23.22	35.19		24.03	390.5	20.	23.36	35.06	23.90	402.5	0.082	
											72.	23.06	35.24		24.12	383.4	30.	23.31	35.11	23.94	398.4	0.122	
											94.	22.91	35.28		24.19	377.3	50.	23.20	35.20	24.05	389.3	0.202	
											116.	22.35	35.28		24.35	362.8	75.	23.05	35.25	24.13	382.9	0.299	
											139.	20.73	35.12		24.66	332.4	100.	22.83	35.29	24.22	374.5	0.394	
											165.	19.42	35.06		24.98	304.6	150.	20.10	35.09	24.82	319.0	0.569	
											180.	18.99	35.02		25.06	297.4	200.	18.32	34.93	25.16	288.1	0.722	
											210.	17.90	34.88		25.22	282.4	250.	15.51	34.62	25.58	248.7	0.858	
											233.	16.55	34.73		25.43	262.9	300.	13.34	34.42	25.89	219.6	0.976	
											260.	14.96	34.56		25.66	241.4	400.	9.13	34.15	26.45	166.2	1.170	
											284.	14.08	34.48		25.79	229.7	500.	7.03	34.14	26.76	137.5	1.324	
											378.	9.84	34.18		26.36	175.3	600.	6.12	34.20	26.93	121.3	1.454	
											475.	7.37	34.13		26.70	142.4	700.	5.34	34.30	27.10	105.6	1.569	
											571.	6.38	34.18		26.88	126.2	800.	4.78	34.39	27.24	92.7	1.669	
											764.	4.95	34.36		27.20	96.6	1000.	4.10	34.52	27.41	76.7	1.840	
											956.	4.24	34.50		27.39	79.4	1200.	3.52	34.59				

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

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		3, STATION	1, 20-36N LAT, 157-15W LCNG, APR. 13, 1964, 0500 G.C.T.					VIS. 9	CLOUD	TYPE	B, COVER	2	
DRY BULB	24.4	WET BULB	19.5	WIND SPEED	15	DIR.	13	BAR. 16	WEATHER 02				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
1.	24.64	34.84	23.35	454.0	0.	24.64	34.84	23.35	453.9	0.000			
10.	24.52	34.86	23.40	449.5	10.	24.52	34.86	23.40	449.5	0.046			
50.	24.21	34.88	23.51	440.7	20.	24.44	34.87	23.43	447.2	0.091			
103.	23.34	35.02	23.87	408.2	30.	24.37	34.87	23.46	445.0	0.136			
127.	22.12	35.09	24.27	370.8	50.	24.21	34.88	23.51	440.7	0.225			
153.	20.52	35.05	24.68	332.6	75.	23.99	34.94	23.62	431.4	0.335			
179.	19.05	34.94	24.98	304.6	100.	23.43	35.01	23.84	411.3	0.441			
194.	18.14	34.86	25.15	289.0	150.	20.71	35.06	26.64	336.6	0.630			
228.	15.48	34.58	25.56	250.1	200.	17.66	34.81	25.23	281.3	0.786			
255.	14.21	34.44	25.73	234.4	250.	14.42	34.46	25.70	236.9	0.916			
282.	12.98	34.32	25.89	219.4	300.	12.00	34.25	26.02	206.7	1.028			
307.	11.62	34.22	26.07	201.8	400.	8.99	34.14	26.46	165.3	1.216			
408.	8.86	34.14	26.49	162.9	500.	6.55	34.14	26.83	130.3	1.365			
510.	6.36	34.15	26.86	127.4	600.	5.90	34.28	27.02	112.6	1.487			
610.	5.90	34.30	27.03	111.5	700.	5.50	34.38	27.14	101.8	1.596			
813.	5.02	34.43	27.24	92.9	800.	5.08	34.43	27.23	93.7	1.695			
1015.	4.16	34.51	27.40	78.2	1000.	4.22	34.51	27.39	79.1	1.870			
1215.	3.60	34.54	27.48	70.9	1200.	3.64	34.54	27.48	71.3	2.022			
1513.	2.84	34.58	27.59	60.8	1500.	2.87	34.58	27.58	61.1	2.223			

CROMWELL		3, STATION	2, 19- 8N LAT, 156-58W LCNG, APR. 13, 1964, 1500 G.C.T.					VIS. 9	CLOUD	TYPE	,	COVER
DRY BULB	23.9	WET BULB	19.2	WIND SPEED	12	DIR.	17	BAR. 15	WEATHER 02			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	34.68	23.36	452.6	0.	24.19	34.68	23.36	452.6	0.000		
10.	24.20	34.69	23.37	452.6	10.	24.20	34.69	23.37	452.6	0.046		
102.	23.85	34.76	23.52	441.2	20.	24.16	34.69	23.38	451.8	0.092		
126.	23.87	34.82	23.56	438.4	30.	24.13	34.70	23.39	450.9	0.137		
151.	21.77	35.04	24.33	365.9	50.	24.06	34.71	23.42	448.8	0.228		
176.	19.94	35.01	24.80	321.5	75.	23.96	34.73	23.47	445.5	0.340		
192.	19.28	34.97	24.95	308.5	100.	23.86	34.76	23.52	441.6	0.452		
225.	17.22	34.76	25.30	275.7	150.	21.87	35.03	24.30	369.2	0.656		
251.	14.69	34.48	25.66	241.3	200.	18.88	34.93	25.02	301.6	0.825		
277.	13.52	34.39	25.83	224.8	250.	14.78	34.49	25.65	242.5	0.963		
302.	12.39	34.30	25.99	210.1	300.	12.48	34.31	25.98	211.2	1.077		
403.	8.64	34.11	26.50	161.6	400.	8.73	34.11	26.49	162.8	1.266		
505.	6.99	34.16	26.78	135.2	500.	7.04	34.15	26.77	136.3	1.417		
603.	5.76	34.30	27.05	109.5	600.	5.79	34.30	27.04	110.3	1.541		
802.	4.71	34.46	27.30	86.6	700.	5.11	34.39	27.21	95.3	1.645		
1002.	4.00	34.52	27.43	75.4	800.	4.71	34.46	27.30	86.7	1.737		
1201.	3.48	34.57	27.52	67.1	1000.	4.01	34.52	27.43	75.5	1.901		
1496.	2.91	34.60	27.60	60.1	1200.	3.48	34.57	27.52	67.1	2.046		

CROMWELL		3, STATION	3, 17-30N LAT, 157- 1W LCNG, APR. 14, 1964, 0100 G.C.T.					VIS. 9	CLOUD	TYPE	B, COVER	5
DRY BULB	24.9	WET BULB	20.8	WIND SPEED	14	DIR.	11	BAR. 15	WEATHER 02			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.66	34.46	23.06	481.9	0.	24.66	34.46	23.06	481.9	0.000		
8.	24.66	34.44	23.04	483.7	10.	24.66	34.44	23.04	483.9	0.049		
49.	24.58	34.46	23.08	481.5	20.	24.65	34.43	23.04	484.6	0.098		
100.	24.21	34.60	23.30	462.8	30.	24.64	34.43	23.04	484.4	0.147		
125.	23.38	34.66	23.59	436.1	50.	24.58	34.46	23.08	481.5	0.244		
151.	21.24	35.08	24.51	349.0	75.	24.52	34.52	23.15	476.2	0.365		
177.	19.67	35.02	24.88	314.1	100.	24.21	34.60	23.30	462.8	0.483		
192.	18.20	34.83	25.11	292.5	150.	21.33	35.06	24.47	352.4	0.688		
225.	13.83	34.33	25.72	233.9	200.	17.15	34.70	25.27	277.8	0.847		
249.	11.55	34.20	26.07	200.6	250.	11.50	34.20	26.08	199.8	0.968		
279.	10.37	34.18	26.27	182.1	300.	9.66	34.18	26.39	170.7	1.061		
294.	9.79	34.17	26.36	173.5	400.	8.33	34.37	26.75	137.3	1.216		
386.	8.61	34.38	26.71	141.0	500.	6.69	34.32	26.95	119.0	1.346		
488.	6.75	34.31	26.93	120.5	600.	6.48	34.45	27.08	108.2	1.460		
607.	6.49	34.46	27.08	107.6	700.	5.84	34.49	27.19	97.8	1.564		
772.	5.28	34.49	27.26	91.3	800.	5.12	34.49	27.28	89.3	1.659		
954.	4.40	34.51	27.38	80.6	1000.	4.27	34.52	27.40	78.9	1.829		
1209.	3.80	34.55	27.47	72.5	1200.	3.82	34.55	27.47	72.8	1.983		
1509.	3.03	34.58	27.57	63.1	1500.	3.05	34.58	27.57	63.3	2.190		

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		3, STATION	4, 15-56N LAT, 157- LW LONG, APR. 14, 1964, 1000 G.C.T.								VIS. 9	CLOUD	TYPE	, COVER
DRY BULB	24.0	WET BULB	21.2	WIND SPEED	16	DIR.	10	BAR.	15	WEATHER	00			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
1.	24.55	34.54		23.15	473.0	0.	24.55	34.54	23.15	473.0	0.000			
11. ^Δ	24.55	34.54		23.15	473.4	10.	24.55	34.54	23.15	473.4	0.048			
50. ^Δ	24.51	34.56		23.18	472.4	20.	24.56	34.54	23.15	474.3	0.096			
75. ^Δ	24.28	34.65		23.31	460.3	30.	24.56	34.54	23.15	474.5	0.144			
98.	23.97	34.84		23.55	438.7	50.	24.51	34.56	23.18	472.4	0.239			
122.	23.86	34.92		23.64	430.7	75.	24.28	34.65	23.31	460.3	0.357			
146.	21.07	35.06		24.54	345.8	100.	24.01	34.85	23.54	439.3	0.470			
169.	19.32	34.98		24.94	308.0	150.	20.88	35.08	24.61	339.6	0.666			
183.	16.29	34.58		25.38	266.5	200.	13.99	34.36	25.72	234.0	0.811			
215.	12.71	34.31		25.94	213.2	250.	10.95	34.36	26.31	178.0	0.914			
240.	11.12	34.28		26.21	186.9	300.	9.94	34.48	26.58	153.2	0.998			
264.	10.82	34.48		26.42	167.5	400.	9.39	34.63	26.79	135.2	1.144			
287.	10.09	34.46		26.53	157.0	500.	7.87	34.53	26.95	120.4	1.273			
383.	9.64	34.64		26.75	138.3	600.	6.90	34.51	27.07	109.3	1.389			
479.	8.11	34.54		26.92	123.2	700.	6.08	34.50	27.17	100.5	1.495			
576.	7.13	34.52		27.04	111.7	800.	5.49	34.49	27.24	94.0	1.593			
770.	5.61	34.49		27.22	95.6	1000.	4.78	34.53	27.35	84.1	1.773			
963.	4.95	34.53		27.33	86.2	1200.	4.04	34.56	27.45	74.8	1.934			
1157.	4.09	34.55		27.44	75.7									
1450.	3.32	34.58		27.54	66.3									

TEMPERATURE ERROR TERM AT 150. METERS IS 0.12

TEMPERATURE ERROR TERM AT 200. METERS IS 0.12

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

CROMWELL		3, STATION	5, 14-32N LAT, 157- OW LONG, APR. 14, 1964, 1800 G.C.T.								VIS. 9	CLOUD	TYPE	, COVER 3
DRY BULB	25.6	WET BULB	22.7	WIND SPEED	12	DIR.	11	BAR.	12	WEATHER	01			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	24.36	34.58		23.24	464.7	0.	24.36	34.58	23.24	464.7	0.000			
10.	24.37	34.56		23.22	466.8	10.	24.37	34.56	23.22	466.8	0.047			
44. ^Δ	24.38	34.58		23.23	467.0	20.	24.38	34.56	23.22	467.3	0.094			
50. ^Δ	24.38	34.58		23.23	467.2	30.	24.38	34.57	23.22	467.4	0.142			
75. ^Δ	23.84	34.86		23.60	432.7	50.	24.38	34.58	23.23	467.2	0.236			
99.	23.27	35.03		23.90	405.4	75.	23.84	34.86	23.60	432.7	0.349			
122.	20.91	35.06		24.58	340.8	100.	23.18	35.03	23.93	402.7	0.454			
146.	18.89	34.94		25.02	299.6	150.	18.61	34.91	25.07	295.4	0.630			
171.	16.86	34.67		25.31	272.3	200.	13.55	34.35	25.79	226.5	0.762			
186.	15.00	34.46		25.57	247.4	250.	10.92	34.40	26.34	175.1	0.863			
218.	12.11	34.29		26.04	203.5	300.	9.71	34.45	26.59	151.5	0.945			
243.	10.93	34.34		26.29	179.2	400.	9.09	34.60	26.81	133.0	1.039			
269.	10.90	34.52		26.44	166.0	500.	7.66	34.51	26.96	119.0	1.216			
293.	9.84	34.45		26.57	153.7	600.	6.71	34.48	27.07	109.1	1.331			
388.	9.26	34.60		26.78	135.1	700.	5.98	34.48	27.17	100.1	1.437			
484.	7.85	34.52		26.94	120.8	300.	5.41	34.51	27.26	92.0	1.534			
578.	6.89	34.48		27.05	111.3	1000.	4.48	34.55	27.40	79.4	1.707			
765.	5.60	34.50		27.23	94.7	1200.	3.77	34.57	27.49	70.7	1.960			
952.	4.68	34.54		27.37	81.9									
1138.	3.98	34.56		27.46	73.4									
1424.	3.22	34.58		27.55	64.9									

CROMWELL		3, STATION	6, 13- ON LAT, 157- OW LONG, APR. 15, 1964, 0300 G.C.T.								VIS. 9	CLOUD	TYPE	, COVER 2
DRY BULB	25.4	WET BULB	23.0	WIND SPEED	12	DIR.	08	BAR.	11	WEATHER	02			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
1.	25.32	34.38		22.80	506.8	0.	25.32	34.38	22.80	506.8	0.000			
10.	25.30	34.38		22.80	506.6	10.	25.30	34.38	22.80	506.6	0.032			
30. ^Δ	25.12	34.18		22.71	516.5	20.	25.21	34.28	22.76	511.4	0.103			
50. ^Δ	25.10	34.19		22.72	516.0	30.	25.12	34.18	22.71	516.5	0.155			
75. ^Δ	25.08	34.19		22.73	516.4	50.	25.10	34.19	22.72	516.0	0.259			
99.	24.66	34.42		23.03	488.6	75.	25.08	34.19	22.73	516.4	0.349			
124.	23.39	34.67		23.59	435.7	100.	24.65	34.43	23.04	487.5	0.515			
149.	18.69	34.70		24.89	312.2	150.	18.55	34.69	24.92	309.3	0.716			
173.	15.72	34.51		25.45	258.8	200.	12.43	34.26	25.95	211.0	0.947			
188.	13.91	34.37		25.74	231.6	250.	10.21	34.34	26.42	166.9	0.742			
220.	10.57	34.17		26.23	185.0	300.	9.50	34.46	26.64	147.2	1.021			
247.	10.24	34.32		26.40	168.9	400.	8.70	34.59	26.87	127.0	1.160			
272.	9.94	34.46		26.56	154.2	500.	7.79	34.57	26.99	116.7	1.283			
297.	9.53	34.46		26.63	147.9	600.	6.84	34.53	27.09	107.3	1.336			
395.	8.74	34.59		26.86	127.7	700.	6.07	34.52	27.19	98.5	1.500			
495.	7.84	34.57		26.98	117.1	800.	5.46	34.53	27.27	91.0	1.536			
593.	6.90	34.53		27.08	107.9	1000.	4.59	34.54	27.38	81.1	1.770			
790.	5.51	34.53		27.26	91.6	1200.	3.83	34.57	27.48	71.6	1.924			
988.	4.64	34.54		27.37	81.8									
1186.	3.86	34.57		27.48	71.6									
1483.	2.99	34.60		27.59	61.0									

^aFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 25.2		3, STATION 7, 11-30N LAT, 157-0W LONG, APR. 15, 1964, 1200 G.C.T.		WET BULB 23.6	WIND SPEED 18, DIR. 09	BAR. 12	WEATHER 02	VIS. 9	CLOUD TYPE , COVER					
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.91	34.66		22.83	504.0	0.	25.91	34.66	22.83	504.0	0.000			
10.	25.92	34.66		22.82	504.7	10.	25.92	34.66	22.82	504.7	0.051			
45.	25.65	34.66		22.91	498.1	20.	25.89	34.65	22.83	504.6	0.102			
50. ^A	25.58	34.67		22.94	495.5	30.	25.82	34.65	22.85	503.0	0.153			
75. ^A	25.50	34.68		22.97	493.4	50.	25.58	34.67	22.94	495.5	0.253			
99.	22.28	35.03		24.18	378.3	75.	25.50	34.68	22.97	493.4	0.378			
122.	19.67	35.00		24.87	313.6	100.	22.18	35.04	24.22	375.1	0.487			
145.	15.58	34.50		25.48	255.6	150.	14.95	34.44	25.57	247.1	0.644			
171.	12.84	34.28		25.89	216.8	200.	11.20	34.36	26.26	181.5	0.752			
186.	11.55	34.24		26.10	196.2	250.	10.84	34.71	26.60	150.5	0.836			
217.	11.21	34.56		26.41	167.4	300.	10.23	34.71	26.71	141.2	0.909			
240.	10.95	34.70		26.57	153.0	400.	9.15	34.66	26.85	128.9	1.046			
269.	10.61	34.70		26.63	147.8	500.	8.06	34.60	26.97	118.6	1.171			
292.	10.32	34.71		26.69	142.6	600.	6.91	34.54	27.09	107.2	1.285			
387.	9.28	34.67		26.83	130.2	700.	6.11	34.53	27.19	98.2	1.388			
482.	8.29	34.61		26.94	120.8	800.	5.50	34.54	27.27	90.7	1.484			
574.	7.15	34.55		27.06	109.8	1000.	4.48	34.57	27.41	77.8	1.654			
762.	5.73	34.54		27.24	93.4	1200.	3.71	34.59	27.51	68.5	1.802			
1139.	3.90	34.59		27.49	70.2									
1427.	3.17	34.60		27.57	62.8									

TEMPERATURE ERROR TERM AT 200. METERS IS 0.13

CROMWELL DRY BULB 26.2		3, STATION 8, 11-30N LAT, 154-0W LONG, APR. 16, 1964, 0800 G.C.T.		WET BULB 24.0	WIND SPEED 28, DIR. 09	BAR. 13	WEATHER 02	VIS. 7	CLOUD TYPE , COVER				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.59	34.71		22.65	520.8	0.	26.59	34.71	22.65	520.8	0.000		
8. ^A	26.63	34.72		22.65	521.6	10.	26.63	34.72	22.65	521.7	0.053		
30. ^A	26.60	34.71		22.65	522.3	20.	26.63	34.72	22.66	522.2	0.106		
43.	26.56	34.71		22.66	521.6	30.	26.60	34.71	22.65	522.3	0.158		
50. ^A	26.51	34.71		22.68	520.4	50.	26.51	34.71	22.68	520.4	0.263		
75. ^A	26.20	34.72		22.78	511.3	75.	26.20	34.72	22.78	511.3	0.333		
96.	16.42	34.51		25.29	271.8	100.	15.45	34.50	25.50	251.7	0.489		
119.	12.90	34.53		26.07	198.3	150.	11.68	34.76	26.49	159.2	0.593		
140.	11.93	34.74		26.42	165.3	200.	11.10	34.74	26.57	151.9	0.671		
169.	11.42	34.75		26.52	156.0	250.	10.37	34.73	26.70	141.0	0.745		
182.	11.30	34.74		26.54	154.9	300.	10.03	34.72	26.75	137.3	0.615		
214.	10.91	34.74		26.61	148.8	400.	9.28	34.67	26.84	130.2	0.950		
237.	10.53	34.74		26.68	142.7	500.	8.49	34.63	26.93	122.7	1.078		
266.	10.23	34.72		26.71	139.8	600.	7.54	34.58	27.04	113.4	1.197		
289.	10.10	34.72		26.74	138.1	700.	6.67	34.56	27.14	103.8	1.307		
385.	9.39	34.68		26.82	131.3	800.	5.91	34.56	27.24	94.9	1.407		
485.	8.63	34.64		26.92	124.0	1000.	4.81	34.57	27.38	81.7	1.596		
581.	7.72	34.59		27.01	115.3	1200.	4.04	34.58	27.47	73.0	1.743		
774.	6.09	34.56		27.21	97.0								
971.	4.94	34.57		27.36	83.2								
1166.	4.18	34.58		27.46	74.7								
1460.	3.45	34.60		27.55	66.5								

TEMPFRATURF ERROR TERM AT 100. METERS IS 0.12

CROMWELL DRY BULB 25.1		3, STATION 9, 13- ON LAT, 154-1W LONG, APR. 16, 1964, 1800 G.C.T.		WET BULB 22.9	WIND SPEED 17, DIR. 08	BAR. 13	WEATHER 01	VIS. 8	CLOUD TYPE 4, COVER 5				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.71	34.37		22.97	489.9	0.	24.71	34.37	22.97	489.8	0.000		
8. ^A	24.71	34.38		22.98	489.4	10.	24.71	34.38	22.98	489.4	0.050		
30. ^A	24.70	34.38		22.99	490.0	20.	24.70	34.38	22.99	489.6	0.099		
50. ^A	24.70	34.38		22.99	490.8	30.	24.70	34.38	22.99	490.0	0.148		
75. ^A	23.80	34.74		23.52	440.2	50.	24.70	34.38	22.99	490.8	0.247		
97.	23.22	34.85		23.78	416.9	75.	23.80	34.74	23.52	440.2	0.365		
100. ^A	23.18	34.85		23.79	415.9	100.	23.18	34.85	23.79	415.9	0.472		
121.	19.37	34.75		24.75	324.2	150.	15.83	34.53	25.45	258.8	0.642		
146.	16.55	34.58		25.32	271.1	200.	11.57	34.55	26.34	174.2	0.751		
169.	12.81	34.38		25.97	208.8	250.	10.74	34.70	26.61	149.7	0.833		
184.	11.99	34.45		26.19	188.5	300.	10.11	34.69	26.71	140.9	0.906		
216.	11.37	34.64		26.45	164.3	400.	9.26	34.63	26.81	132.8	1.045		
241.	10.92	34.70		26.58	152.5	500.	8.17	34.59	26.95	120.5	1.172		
265.	10.47	34.69		26.65	146.0	600.	7.20	34.55	27.06	110.7	1.289		
289.	10.20	34.69		26.70	142.0	700.	6.37	34.53	27.15	102.1	1.397		
386.	9.41	34.64		26.79	134.5	800.	5.70	34.52	27.23	94.8	1.496		
484.	8.33	34.60		26.93	122.2	1000.	4.82	34.55	27.36	83.3	1.676		
581.	7.39	34.56		27.04	112.5	1200.	4.07	34.58	27.46	73.9	1.836		
765.	5.90	34.52		27.21	97.2								
971.	4.94	34.55		27.35	84.7								
1165.	4.21	34.57		27.44	75.8								
1457.	3.27	34.60		27.56	64.2								

^aFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 3, STATION 10, 14-30N LAT, 154-1W LNG, APR. 17, 1964, 0300 G.C.T.												
DRY BULB 24.9	WET BULB 22.2	WIND SPEED 19	DIR. 07	BAR. 12	WEATHER 02	VIS. 8	CLOUD TYPE 3	COVER 5	DYN. DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.80	34.38			22.96	491.7	0.	24.80	34.38	22.96	491.7	0.000
11.	24.82	34.38			22.95	492.7	10.	24.82	34.38	22.95	492.6	0.050
49.	24.76	34.36			22.95	493.9	20.	24.84	34.37	22.94	494.2	0.100
74.	24.47	34.42			23.08	482.2	30.	24.83	34.36	22.93	495.0	0.150
100.	23.50	34.76			23.63	431.3	50.	24.76	34.36	22.95	493.9	0.249
125.	21.42	34.98			24.38	360.0	75.	24.45	34.43	23.10	480.9	0.372
149.	19.72	35.05			24.89	312.2	100.	23.50	34.76	23.63	431.3	0.447
174.	18.01	34.84			25.17	286.7	150.	19.66	35.05	24.90	311.0	0.674
190.	16.39	34.62			25.38	266.0	200.	15.51	34.53	25.52	253.6	0.316
223.	13.62	34.38			25.81	226.0	250.	11.42	34.23	26.12	195.8	0.529
248.	11.58	34.24			26.10	198.2	300.	9.13	34.28	26.55	155.2	1.018
275.	9.75	34.21			26.40	169.5	400.	8.35	34.50	26.85	128.3	1.161
298.	9.16	34.27			26.54	156.0	500.	7.32	34.50	27.00	114.8	1.234
398.	8.37	34.50			26.85	128.6	600.	6.58	34.50	27.10	105.7	1.395
499.	7.33	34.50			27.00	114.9	700.	5.84	34.50	27.20	97.2	1.497
601.	6.57	34.50			27.10	105.6	800.	5.20	34.50	27.28	89.9	1.542
800.	5.20	34.50			27.28	89.9	1000.	4.39	34.52	27.38	80.2	1.764
1000.	4.39	34.52			27.38	80.2	1200.	3.78	34.57	27.49	70.8	1.917
1200.	3.78	34.57			27.49	70.8						
1398.	3.11	34.58			27.56	63.4						

CROMWELL 3, STATION 11, 16-3N LAT, 154-0W LNG, APR. 17, 1964, 1300 G.C.T.												
DRY BULB 23.9	WET BULB 21.2	WIND SPEED 21	DIR. 06	BAR. 15	WEATHER 02	VIS. 8	CLOUD TYPE ,	COVER	DYN. DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	24.40	34.53			23.19	469.4	0.	24.40	34.53	23.19	469.4	0.000
11.	24.40	34.52			23.18	470.6	10.	24.40	34.52	23.18	470.5	0.048
50. ^A	24.40	34.52			23.18	472.1	20.	24.45	34.50	23.15	473.7	0.095
75. ^A	23.80	34.71			23.50	442.4	30.	24.47	34.49	23.14	475.2	0.143
99.	23.35	34.81			23.71	423.5	50.	24.40	34.52	23.18	472.1	0.239
122.	21.72	34.98			24.30	367.8	75.	23.80	34.71	23.50	442.4	0.34
146.	20.25	35.02			24.73	327.6	100.	23.29	34.82	23.73	421.3	0.463
169.	19.19	34.98			24.98	304.8	150.	20.09	35.02	24.78	323.3	0.650
184.	17.97	34.82			25.16	287.5	200.	15.90	34.57	25.46	259.2	0.797
214.	14.06	34.36			25.70	236.1	250.	11.48	34.20	26.09	199.1	0.913
240.	12.07	34.19			25.97	210.6	300.	10.05	34.36	26.47	163.8	1.004
265.	10.80	34.26			26.26	183.3	400.	7.70	34.27	26.77	135.6	1.155
290.	10.32	34.36			26.42	168.3	500.	6.85	34.39	26.98	116.4	1.232
388.	7.85	34.26			26.74	138.4	600.	6.03	34.43	27.12	103.8	1.393
488.	6.96	34.38			26.96	118.3	700.	5.47	34.47	27.22	94.6	1.494
588.	6.11	34.42			27.10	105.1	800.	5.02	34.50	27.30	87.3	1.586
788.	5.08	34.50			27.29	88.2	1000.	4.17	34.55	27.43	75.2	1.750
989.	4.21	34.55			27.43	75.7	1200.	3.55	34.58	27.52	67.1	1.894
1188.	3.62	34.57			27.50	68.7						
1488.	2.90	34.63			27.62	57.7						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL 3, STATION 12, 17-31N LAT, 153-59W LONG, APR. 17, 1964, 2200 G.C.T.												
DRY BULB 24.6	WET BULB 21.0	WIND SPEED 26	DIR. 07	BAR. 16	WEATHER 02	VIS. 8	CLOUD TYPE 6,	COVER 3	DYN. DPTH.			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
1.	23.76	34.54			23.35	450.7	0.	23.76	34.54	23.39	450.6	0.000
11.	23.77	34.53			23.37	452.0	10.	23.77	34.53	23.37	452.1	0.046
49. ^A	23.20	34.82			23.76	416.7	20.	23.66	34.59	23.45	445.2	0.091
75. ^A	23.06	34.88			23.85	409.5	30.	23.52	34.66	23.55	436.4	0.136
99.	22.72	35.02			24.05	391.0	50.	23.19	34.82	23.76	416.4	0.221
123.	22.62	35.06			24.11	386.3	75.	23.06	34.88	23.85	409.5	0.325
146.	21.75	35.10			24.38	360.8	100.	22.72	35.02	24.05	390.9	0.426
173.	19.92	35.02			24.82	320.2	150.	21.50	35.09	24.45	354.7	0.614
188.	19.06	34.97			25.00	303.0	200.	17.93	34.83	25.18	286.5	0.776
221.	15.69	34.54			25.48	257.4	250.	13.08	34.31	25.86	221.3	0.904
246.	13.36	34.33			25.82	225.2	300.	10.57	34.18	26.24	185.7	1.006
271.	11.88	34.24			26.04	204.2	400.	8.94	34.47	26.73	139.9	1.171
297.	10.66	34.18			26.22	187.5	500.	7.69	34.50	26.95	120.2	1.302
394.	9.02	34.46			26.71	141.7	600.	6.66	34.48	27.08	108.3	1.417
493.	7.77	34.50			26.94	121.2	700.	5.94	34.49	27.18	99.3	1.322
590.	6.74	34.48			27.07	109.3	800.	5.39	34.50	27.26	92.2	1.619
785.	5.47	34.50			27.24	93.2	1000.	4.44	34.51	27.37	81.3	1.795
981.	4.51	34.51			27.36	82.3	1200.	3.73	34.55	27.48	71.8	1.950
1176.	3.86	34.55			27.46	73.0						
1370.	3.21	34.58			27.55	64.4						

^AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB	3, STATION WET BULB	13, 19- ON LAT, 23.2 20.0	WIND SPEED 18, DIR. 06	154- OW LNG, APR. 18, 1964, 0700 G.C.T.				BAR. 17 WEATHER 02		VIS. 8	CLOUD TYPE	COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.48	34.64			23.54	435.6	0.	23.48	34.64	23.54	435.6	0.000	
10.	23.50	34.66			23.55	435.1	10.	23.50	34.66	23.55	435.1	0.044	
30. ^A	23.49	34.65			23.55	437.1	20.	23.51	34.66	23.55	435.9	0.088	
75. ^A	23.42	34.71			23.61	431.7	30.	23.51	34.66	23.55	436.5	0.132	
99.	22.93	34.94			23.93	402.5	50.	23.49	34.65	23.55	437.1	0.220	
123.	22.45	35.05			24.15	382.4	75.	23.47	34.71	23.61	431.7	0.350	
147.	21.51	35.21			24.53	346.6	100.	22.91	34.95	23.94	401.8	0.435	
171.	20.11	35.11			24.84	318.4	150.	21.36	35.21	24.57	343.0	0.622	
185.	19.07	35.01			25.03	300.2	200.	17.46	34.80	25.27	277.4	0.779	
216.	15.71	34.57			25.50	255.5	250.	13.16	34.31	25.84	223.2	0.905	
241.	13.83	34.36			25.75	232.2	300.	10.76	34.19	26.21	188.5	1.009	
265.	12.17	34.24			25.99	209.4	400.	8.87	34.33	26.63	149.1	1.179	
288.	11.13	34.19			26.14	194.8	600.	7.31	34.38	26.91	123.6	1.317	
381.	9.18	34.30			26.56	155.7	600.	5.96	34.31	27.04	111.3	1.435	
475.	7.75	34.40			26.86	128.0	760.	5.43	34.38	27.16	100.1	1.542	
569.	6.21	34.30			26.99	115.0	800.	5.09	34.47	27.27	90.7	1.639	
757.	5.31	34.45			27.22	94.5	1000.	4.31	34.52	27.39	79.2	1.810	
947.	4.44	34.51			27.37	81.0	1200.	3.83	34.55	27.47	72.8	1.964	
1136.	4.07	34.54			27.43	76.0							
1424.	3.49	34.56			27.51	69.7							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.11
 TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

CROMWELL DRY BULB	3, STATION WET BULB	14, 20-30N LAT, 154- OW LNG, APR. 21, 1964, 1200 G.C.T.	WIND SPEED 21, DIR. 10	BAR. 19	WEATHER 00	VIS. 8	CLOUD TYPE	COVER					
DRY BULB 23.0	WET BULB 20.5												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.42	34.52			23.47	442.6	0.	23.42	34.52	23.47	442.6	0.000	
9.	23.44	34.52			23.46	443.5	10.	23.44	34.52	23.46	443.6	0.045	
47.	23.40	34.52			23.48	443.8	20.	23.44	34.52	23.46	444.1	0.090	
75. ^A	23.30	34.54			23.52	440.7	30.	23.44	34.52	23.46	444.3	0.135	
96.	22.80	34.90			23.94	401.7	50.	23.41	34.51	23.47	444.9	0.224	
120.	22.55	35.00			24.08	388.6	75.	23.30	34.54	23.52	440.7	0.336	
143.	22.02	35.07			24.29	370.1	100.	22.76	34.93	23.97	398.6	0.441	
170.	19.36	34.72			24.73	327.8	150.	21.50	35.00	24.37	361.9	0.633	
183.	17.57	34.58			25.07	295.5	200.	16.08	34.45	25.33	271.4	0.793	
214.	15.21	34.39			25.47	257.8	250.	12.91	34.26	25.86	221.3	0.917	
238.	13.74	34.34			25.75	231.8	300.	10.87	34.17	26.17	192.1	1.021	
266.	11.92	34.17			25.98	210.0	400.	8.54	34.16	26.56	156.2	1.197	
289.	11.18	34.17			26.12	197.1	500.	6.66	34.21	26.86	127.2	1.340	
394.	8.67	34.16			26.53	158.2	600.	5.47	34.26	27.06	108.3	1.459	
482.	6.95	34.20			26.82	131.4	700.	4.89	34.38	27.21	94.0	1.561	
577.	5.65	34.24			27.02	112.2	800.	4.61	34.47	27.32	84.8	1.651	
766.	4.71	34.45			27.29	87.0	1000.	4.10	34.52	27.42	76.5	1.815	
958.	4.21	34.51			27.40	78.3	1200.	3.58	34.56	27.50	69.2	1.962	
1151.	3.69	34.55			27.48	70.7							
1446.	3.00	34.58			27.57	62.3							

CROMWELL DRY BULB	3, STATION WET BULB	15, 22- ON LAT, 154- 2W LONG, APR. 21, 1964, 2000 G.C.T.	WIND SPEED 20, DIR. 07	BAR. 23	WEATHER 03	VIS. 8	CLOUD TYPE	7, COVER	7				
DRY BULB 21.4	WET BULB 19.7												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.37	34.64			23.57	432.5	0.	23.37	34.64	23.57	432.5	0.000	
10.	23.35	34.64			23.58	432.4	10.	23.35	34.64	23.58	432.4	0.044	
30. ^A	23.34	34.66			23.60	431.4	20.	23.34	34.65	23.59	431.9	0.088	
50. ^A	23.36	34.68			23.61	431.3	30.	23.34	34.66	23.60	431.4	0.131	
75. ^A	23.40	34.76			23.66	427.6	50.	23.36	34.68	23.61	431.3	0.218	
100.	23.42	34.90			23.76	419.0	75.	23.40	34.76	23.66	427.6	0.326	
124.	22.97	34.97			23.94	402.4	100.	23.42	34.90	23.76	419.0	0.433	
149.	22.46	35.04			24.14	384.4	150.	22.41	35.04	24.15	383.1	0.635	
174.	20.94	35.02			24.54	346.3	200.	19.37	34.99	24.94	309.3	0.809	
189.	19.96	35.02			24.81	321.8	250.	15.85	34.58	25.48	258.8	0.953	
221.	18.17	34.88			25.16	289.1	300.	12.26	34.23	25.96	212.5	1.071	
247.	16.07	34.61			25.45	261.4	400.	8.94	34.14	26.48	164.0	1.261	
272.	14.25	34.38			25.67	240.1	500.	7.06	34.16	26.77	136.2	1.413	
298.	12.37	34.24			25.95	214.0	600.	5.44	34.18	27.00	114.3	1.539	
395.	9.05	34.14			26.46	165.7	700.	4.95	34.30	27.14	100.7	1.648	
493.	7.20	34.16			26.75	138.0	800.	4.84	34.42	27.26	91.1	1.745	
591.	5.51	34.17			26.98	115.8	1000.	4.11	34.50	27.40	78.1	1.916	
785.	4.90	34.41			27.24	92.5	1200.	3.56	34.53	27.48	70.8	2.067	
979.	4.17	34.50			27.39	78.8							
1175.	3.65	34.50			27.45	74.1							
1469.	3.03	34.58			27.57	62.9							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.15

^AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	3, STATION	16, 23-29N LAT, 153-58W LONG, APR. 22, 1964, 0500 G.C.T.											
DRY BULB 22.8	WET BULB 19.9	WIND SPEED 24, DIR. 09		BAR. 22		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.34	34.68			23.61	428.8	0.	23.34	34.68	23.61	428.8	0.000	
11.	23.35	34.70			23.63	428.1	10.	23.35	34.70	23.62	428.1	0.044	
30. ^A	23.36	34.71			23.63	428.4	20.	23.39	34.67	23.60	431.3	0.087	
48.	22.87	35.19			24.14	380.9	30.	23.36	34.71	23.63	428.4	0.130	
74.	22.56	35.20			24.23	372.7	50.	22.84	35.20	24.15	379.1	0.212	
98.	22.13	35.24			24.38	359.1	75.	22.55	35.20	24.24	372.2	0.306	
120.	21.54	35.23			24.54	344.9	100.	22.09	35.24	24.40	357.9	0.398	
144.	20.45	35.11			24.75	326.1	150.	20.30	35.10	24.78	323.2	0.570	
172.	19.57	35.04			24.92	310.0	200.	17.86	34.85	25.21	283.0	0.723	
185.	18.73	34.95			25.07	296.3	250.	14.72	34.49	25.66	240.9	0.855	
214.	17.04	34.76			25.34	271.2	300.	12.51	34.29	25.96	213.2	0.969	
240.	15.27	34.55			25.58	248.2	400.	9.52	34.11	26.35	175.9	1.165	
268.	13.84	34.41			25.78	229.5	500.	7.29	34.04	26.65	148.0	1.329	
290.	12.89	34.32			25.91	217.9	600.	5.61	34.06	26.88	125.1	1.467	
387.	9.85	34.12			26.31	180.0	700.	4.83	34.20	27.08	106.3	1.584	
485.	7.61	34.05			26.61	151.9	800.	4.47	34.35	27.24	91.9	1.684	
580.	5.83	34.04			26.84	129.4	1000.	3.88	34.49	27.41	76.4	1.854	
771.	4.59	34.32			27.20	95.2	1200.	3.41	34.56	27.52	67.0	2.000	
965.	3.97	34.47			27.39	78.4							
1158.	3.53	34.54			27.49	69.6							
1453.	2.92	34.57			27.57	62.2							
CROMWELL	3, STATION	17, 23-30N LAT, 151- OW LONG, APR. 22, 1964, 2300 G.C.T.											
DRY BULB 22.2	WET BULB 18.7	WIND SPEED 20, DIR. 09		BAR. 22		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.89	34.98			23.97	394.8	0.	22.89	34.98	23.97	394.8	0.000	
10.	22.92	34.98			23.96	396.0	10.	22.92	34.98	23.96	396.0	0.040	
30. ^A	22.92	35.06			24.02	391.0	20.	22.93	35.01	23.98	394.3	0.080	
48.	22.82	35.13			24.10	383.9	30.	22.92	35.06	24.02	391.0	0.120	
75. ^A	22.02	35.22			24.40	356.7	50.	22.77	35.14	24.13	381.9	0.198	
98.	21.62	35.22			24.51	347.0	75.	22.02	35.22	24.40	356.7	0.291	
122.	20.75	35.24			24.76	323.7	100.	21.56	35.22	24.53	345.0	0.379	
146.	19.85	35.08			24.88	313.2	150.	19.69	35.07	24.91	310.3	0.544	
171.	18.68	34.97			25.10	293.2	200.	16.95	34.72	25.33	271.6	0.691	
188.	17.53	34.80			25.25	278.8	250.	14.20	34.39	25.70	237.5	0.819	
220.	16.05	34.61			25.46	260.1	300.	11.64	34.20	26.06	203.2	0.930	
245.	14.58	34.44			25.65	241.8	400.	8.78	34.05	26.43	167.9	1.117	
272.	12.68	34.23			25.88	220.0	500.	6.70	34.01	26.70	142.0	1.274	
295.	11.81	34.21			26.03	205.7	600.	5.46	34.10	26.93	120.7	1.407	
394.	8.93	34.06			26.41	169.7	700.	4.79	34.20	27.09	105.6	1.521	
495.	6.78	34.01			26.69	143.2	800.	4.44	34.31	27.21	94.5	1.622	
594.	5.51	34.09			26.92	121.8	1000.	4.01	34.46	27.38	79.7	1.798	
792.	4.46	34.30			27.20	95.3	1200.	3.63	34.53	27.47	71.7	1.952	
993.	4.02	34.46			27.38	80.0							
1193.	3.65	34.51			27.45	73.5							
1495.	3.18	34.56			27.54	66.3							
CROMWELL	3, STATION	18, 22- IN LAT, 150-58W LONG, APR. 23, 1964, 0800 G.C.T.											
DRY BULB 21.7	WET BULB 19.5	WIND SPEED 15, DIR. 09		BAR. 21		WEATHER 00		VIS. 9		CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.30	34.88			23.78	413.3	0.	23.30	34.88	23.78	413.3	0.000	
11.	23.32	34.88			23.77	414.3	10.	23.32	34.88	23.77	414.2	0.042	
30. ^A	23.28	34.89			23.79	413.2	20.	23.33	34.87	23.76	415.5	0.084	
51.	22.85	35.16			24.12	382.6	30.	23.28	34.89	23.79	413.2	0.126	
75. ^A	22.30	35.20			24.31	365.7	50.	22.98	35.15	24.10	384.3	0.206	
102.	21.88	35.20			24.42	355.5	75.	22.30	35.20	24.31	365.7	0.300	
127.	20.70	35.13			24.69	330.5	100.	21.92	35.20	24.41	356.4	0.391	
153.	19.20	34.98			24.97	304.5	150.	19.37	35.00	24.94	307.2	0.559	
177.	18.34	34.92			25.15	288.8	200.	17.28	34.77	25.29	275.5	0.705	
192.	17.71	34.83			25.23	280.9	250.	13.80	34.36	25.75	232.0	0.833	
226.	15.61	34.56			25.52	254.3	300.	11.80	34.20	26.03	206.2	0.944	
254.	13.53	34.33			25.79	228.7	400.	9.09	34.10	26.42	169.4	1.133	
280.	12.55	34.26			25.93	215.5	500.	6.61	34.08	26.77	136.0	1.298	
304.	11.65	34.19			26.05	204.5	600.	5.79	34.25	27.01	113.8	1.414	
405.	8.98	34.10			26.44	167.7	700.	5.20	34.37	27.17	98.6	1.521	
507.	6.47	34.08			26.79	134.0	800.	4.71	34.44	27.28	88.4	1.616	
606.	5.77	34.26			27.02	112.7	1000.	4.12	34.51	27.40	77.7	1.784	
808.	4.68	34.44			27.29	87.8	1200.	3.87	34.52	27.44	75.5	1.939	
1010.	4.10	34.51			27.41	77.5	1500.	3.36	34.56	27.52	68.6	2.158	
1210.	3.86	34.52			27.44	75.5							
1513.	3.34	34.56			27.52	68.4							

^AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA			
CROMWELL 3, STATION 19, 20-30N LAT, 150-59W LONG, APR. 23, 1964, 1700 G.C.T. DRY BULB 21.8 WET BULB 18.7 WIND SPEED 16, DIR. 08 BAR. 18 WEATHER 02				VIS. 9				CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.11	34.63		23.64	426.1	0.	23.11	34.63	23.64	426.1	0.000
10.	23.13	34.62		23.63	427.7	10.	23.13	34.62	23.63	427.7	0.043
30. ^A	23.06	34.66		23.68	423.7	20.	23.13	34.61	23.62	428.7	0.087
48.	22.59	35.00		24.07	387.0	30.	23.06	34.66	23.68	423.7	0.130
75. ^A	22.46	35.02		24.12	383.0	50.	22.57	35.01	24.09	385.6	0.211
101.	22.35	35.04		24.17	379.6	75.	22.46	35.02	24.12	383.0	0.308
123.	22.08	35.12		24.31	367.4	100.	22.36	35.04	24.17	379.8	0.404
148.	21.21	35.16		24.58	342.3	150.	21.11	35.16	24.60	339.9	0.585
173.	20.01	35.10		24.85	316.7	200.	19.22	35.01	24.99	304.3	0.748
188.	19.67	35.07		24.92	310.9	250.	16.34	34.63	25.41	265.7	0.991
220.	18.23	34.88		25.14	290.5	300.	12.59	34.22	25.89	219.5	1.014
246.	16.61	34.67		25.37	269.0	400.	8.68	34.13	26.51	160.4	1.205
273.	14.66	34.42		25.62	245.7	500.	7.08	34.24	26.83	130.5	1.352
296.	12.84	34.24		25.86	222.9	600.	5.61	34.23	27.01	112.9	1.475
395.	8.79	34.13		26.49	162.3	700.	5.02	34.33	27.16	99.1	1.582
494.	7.18	34.24		26.82	131.8	800.	4.79	34.45	27.28	88.6	1.677
592.	5.67	34.22		27.00	114.2	1000.	4.07	34.51	27.41	76.7	1.844
789.	4.83	34.44		27.27	89.5	1200.	3.56	34.55	27.50	69.3	1.992
986.	4.12	34.51		27.41	77.5						
1182.	3.56	34.55		27.49	69.4						
1478.	3.31	34.56		27.53	67.8						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL 3, STATION 20, 19- ON LAT, 150-59W LONG, APR. 24, 1964, 0200 G.C.T. DRY BULB 22.9 WET BULB 20.3 WIND SPEED 21, DIR. 09 BAR. 16 WEATHER 01				VIS. 8				CLOUD TYPE 6, COVER 5			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.62	34.52		23.41	448.1	0.	23.62	34.52	23.41	448.1	0.000
10.	23.62	34.52		23.41	448.5	10.	23.62	34.52	23.41	448.5	0.046
30. ^A	23.62	34.52		23.41	449.3	20.	23.62	34.52	23.41	448.9	0.091
50. ^A	23.62	34.52		23.41	450.1	30.	23.62	34.52	23.41	449.3	0.136
75. ^A	23.54	34.53		23.44	448.1	50.	23.62	34.52	23.41	450.1	0.227
100.	22.95	34.88		23.88	407.4	75.	23.54	34.53	23.44	448.1	0.340
125.	22.60	35.01		24.08	389.4	100.	22.95	34.88	23.88	407.4	0.448
150.	21.75	35.14		24.41	358.1	150.	21.75	35.14	24.41	358.1	0.640
174.	20.32	35.12		24.79	323.2	200.	18.51	34.90	25.09	295.0	0.805
190.	19.31	35.03		24.98	304.9	250.	13.69	34.27	25.71	235.9	0.939
223.	16.39	34.56		25.34	271.4	300.	10.16	34.16	26.29	180.7	1.044
249.	13.78	34.28		25.70	237.2	400.	7.59	34.10	26.65	146.3	1.209
274.	11.70	34.18		26.03	205.4	500.	6.31	34.22	26.92	121.6	1.344
297.	10.29	34.16		26.27	182.6	600.	5.63	34.34	27.10	105.0	1.459
393.	7.72*	34.10		26.63	148.4	700.	5.26	34.42	27.21	95.6	1.560
487.	6.43	34.20		26.89	124.3	800.	4.99	34.47	27.28	89.4	1.693
582.	5.71	34.32		27.07	107.1	1000.	4.28	34.52	27.40	78.5	1.923
778.	5.07	34.46		27.26	90.9	1200.	3.70	34.55	27.48	71.0	1.975
976.	4.35	34.52		27.39	79.5						
1173.	3.79	34.54		27.46	72.9						
1471.	3.07	34.58		27.57	63.4						

CROMWELL 3, STATION 21, 17-30N LAT, 150-57W LONG, APR. 24, 1964, 1300 G.C.T. DRY BULB 23.0 WET BULB 20.3 WIND SPEED 22, DIR. 06 BAR. 15 WEATHER 02				VIS. 8				CLOUD TYPE 6, COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.82	34.40		23.26	462.4	0.	23.82	34.40	23.26	462.4	0.000
10. ^A	23.82	34.40		23.26	462.8	10.	23.82	34.40	23.26	462.8	0.047
30. ^A	23.78	34.41		23.28	461.7	20.	23.91	34.40	23.27	462.6	0.094
50. ^A	23.68	34.44		23.33	457.5	30.	23.78	34.41	23.28	461.7	0.140
75. ^A	23.58	34.49		23.40	452.1	50.	23.68	34.44	23.33	457.5	0.233
102.	23.00	34.77		23.78	416.8	75.	23.58	34.49	23.40	452.1	0.347
124.	21.22	34.88		24.36	361.9	100.	23.08	34.75	23.74	420.6	0.457
151.	18.83	34.83		24.95	306.3	150.	18.93	34.84	24.93	308.1	0.641
175.	15.91	34.48		25.39	265.1	200.	13.82	34.36	25.75	230.7	0.777
190.	14.61	34.42		25.63	242.3	250.	11.03	34.17	26.15	193.4	0.884
222.	12.34	34.24		25.95	211.6	300.	9.46	34.12	26.38	171.8	0.976
248.	11.12	34.19		26.14	194.4	400.	7.66	34.22	26.73	138.9	1.132
274.	10.13	34.12		26.26	182.4	500.	7.19	34.43	26.96	118.3	1.262
299.	9.48	34.12		26.37	172.2	600.	6.58	34.46	27.07	108.6	1.377
397.	7.68	34.21		26.72	139.7	700.	5.92	34.48	27.17	99.5	1.492
494.	7.22	34.42		26.95	119.1	800.	5.30	34.49	27.26	91.8	1.579
593.	6.63	34.46		27.07	109.3	1000.	4.46	34.52	27.38	80.8	1.754
790.	5.35	34.49		27.25	92.4	1200.	3.79	34.56	27.48	71.9	1.908
986.	4.51	34.52		27.37	81.6						
1183.	3.86	34.56		27.47	72.3						
1481.	3.06	34.58		27.57	63.3						

^AFROM BT DATA

*INTERPOLATED VALUE

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL DRY BULB	3, STATION 23.2	22, 16° ON LAT, 151° IW LCNG, APR. 24, 1964, 2100 G.C.T.	WET BULB 21.6	WIND SPEED 18, DIR. 06	BAR. 16	WEATHER 02	VIS. 8	CLOUD	TYPE	R, COVER	3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
1.	24.45	34.40			23.04	480.3	0.	24.45	34.40	23.08	480.2	0.000	
10. ^A	24.45	34.40			23.04	480.6	10.	24.45	34.40	23.08	480.6	0.049	
30. ^A	24.40	34.41			23.10	479.2	20.	24.43	34.40	23.08	460.2	0.397	
50. ^A	24.28	34.42			23.14	475.9	30.	24.40	34.41	23.10	479.2	0.146	
74.	23.22	34.70			23.66	426.9	50.	24.28	34.42	23.14	475.9	0.242	
98.	22.52	34.84			23.97	398.5	75.	23.20	34.71	23.67	425.8	0.355	
122.	20.83	35.09			24.63	336.6	100.	22.42	34.87	24.02	393.7	0.459	
147.	17.86	34.71			25.16	291.7	150.	17.33	34.65	25.18	284.0	0.629	
171.	14.10	34.31			25.65	239.4	200.	12.49	34.27	25.95	211.5	0.754	
185.	13.28	34.29			25.81	224.9	250.	10.93	34.42	26.35	173.6	0.451	
219.	11.68	34.28			26.11	196.4	300.	10.41	34.58	26.57	154.2	0.934	
246.	11.00	34.40			26.33	176.1	400.	9.09	34.54	26.77	136.8	1.081	
271.	10.63	34.50			26.47	162.9	500.	7.27	34.44	26.96	118.5	1.210	
295.	10.46	34.57			26.56	155.3	600.	6.42	34.46	27.10	106.3	1.323	
394.	9.21	34.55			26.75	138.1	700.	5.80	34.49	27.20	97.0	1.426	
493.	7.35	34.44			26.95	119.5	800.	5.31	34.52	27.28	89.8	1.520	
592.	6.47	34.46			27.09	107.1	1000.	4.38	34.54	27.40	78.5	1.691	
791.	5.36	34.52			27.27	90.3	1200.	3.69	34.57	27.50	69.4	1.840	
988.	4.43	34.54			27.40	79.1							
1187.	3.75	34.58			27.50	69.5							
1483.	3.01	34.60			27.59	61.2							

CROMWELL DRY BULB	3, STATION 24.9	23, 14-27N LAT, 151° IW LONG, APR. 25, 1964, 0600 G.C.T.	WET BULB 22.6	WIND SPEED 20, DIR. 04	BAR. 15	WEATHER 02	VIS. 8	CLOUD	TYPE	, COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	24.54	34.40			23.05	482.8	0.	24.54	34.40	23.05	482.8	0.000	
10. ^A	24.52	34.40			23.05	482.6	10.	24.52	34.40	23.05	482.6	0.049	
30. ^A	24.48	34.40			23.07	482.2	20.	24.50	34.40	23.06	482.4	0.098	
50. ^A	24.48	34.40			23.07	483.0	30.	24.49	34.40	23.07	482.2	0.146	
75. ^A	22.88	34.78			23.82	411.8	50.	24.42	34.40	23.07	483.0	0.244	
102.	21.79	35.00			24.30	367.5	75.	22.88	34.78	23.82	411.8	0.356	
124.	18.65	34.85			25.01	299.5	100.	21.91	34.99	24.26	371.0	0.455	
148.	15.38	34.48			25.51	252.9	150.	15.15	34.46	25.54	249.8	0.611	
175.	12.82	34.26			25.87	218.0	200.	11.37	34.25	26.14	192.9	0.723	
194.	11.59	34.20			26.06	200.1	250.	10.02	34.46	26.55	155.1	0.811	
221.	10.83	34.44			26.39	169.6	300.	9.63	34.59	26.71	140.0	0.885	
246.	10.08	34.45			26.53	156.7	400.	8.52	34.58	26.89	125.1	1.019	
274.	9.82	34.53			26.64	147.1	500.	7.43	34.55	27.02	112.6	1.139	
299.	9.64	34.59			26.71	140.2	600.	6.55	34.53	27.13	103.2	1.248	
400.	8.52	34.58			26.89	125.1	700.	5.86	34.53	27.22	95.4	1.348	
500.	7.43	34.55			27.02	112.6	800.	5.29	34.53	27.29	88.8	1.441	
599.	6.56	34.53			27.13	103.3	1000.	4.33	34.54	27.41	77.9	1.610	
795.	5.32	34.53			27.29	89.1	1200.	3.65	34.57	27.50	69.4	1.759	
991.	4.36	34.54			27.40	78.3							
1186.	3.75	34.57			27.49	70.3							
1481.	2.96	34.61			27.60	59.9							

CROMWELL DRY BULB	3, STATION 24.6	24, 12-56N LAT, 150°-59W LONG, APR. 25, 1964, 1600 G.C.T.	WET BULB 22.3	WIND SPEED 20, DIR. 06	BAR. 14	WEATHER 02	VIS. 8	CLOUD	TYPE	, COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
1.	25.08	34.46			22.93	494.1	0.	25.08	34.46	22.93	494.0	0.000	
11.	25.09	34.46			22.93	494.8	10.	25.09	34.46	22.93	494.8	0.050	
74.	23.66	34.50			23.38	453.5	20.	25.14	34.41	22.87	500.2	0.100	
97.	21.67	34.94			24.28	368.5	30.	25.10	34.38	22.86	501.7	0.151	
119.	19.28	34.90			24.89	311.1	50.	24.70	34.38	22.98	490.8	0.251	
143.	15.98	34.52			25.40	262.8	75.	23.59	34.52	23.42	450.0	0.369	
166.	13.05	34.30			25.86	219.2	100.	21.38	34.36	24.38	359.6	0.471	
179.	11.89	34.35			26.12	194.1	150.	15.02	34.42	25.54	249.3	0.625	
211.	11.29	34.59			26.42	166.4	200.	11.30	34.51	26.36	172.5	0.731	
236.	10.98	34.67			26.54	155.7	250.	10.74	34.67	26.58	152.0	0.813	
260.	10.57	34.66			26.61	149.8	300.	10.02	34.66	26.70	141.2	0.887	
282.	10.25	34.67			26.67	144.1	400.	8.84	34.59	26.85	129.0	1.023	
374.	9.14	34.60			26.80	132.9	500.	7.75	34.56	26.99	116.4	1.147	
469.	8.07	34.54			26.95	119.4	600.	6.80	34.52	27.09	107.2	1.260	
561.	7.16	34.53			27.05	111.2	700.	5.99	34.52	27.19	97.7	1.364	
745.	5.66	34.52			27.24	93.7	800.	5.36	34.52	27.28	90.1	1.458	
929.	4.80	34.54			27.36	83.2	1000.	4.51	34.55	27.39	79.7	1.630	
1113.	4.10	34.56			27.45	74.7	1200.	3.79	34.57	27.49	70.7	1.783	
1394.	3.23	34.60			27.57	63.3							

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12
 SALINITY ERROR TERM AT 30. METERS IS 0.06
 TEMPERATURE ERROR TERM AT 50. METERS IS 0.13
 SALINITY ERROR TERM AT 50. METERS IS 0.06
 TEMPERATURE ERROR TERM AT 200. METERS IS 0.11

^AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 3, STATION 25, 11-30N LAT, 151- OW LONG, APR. 25, 1964, 0000 G.C.T. DRY BULB 26.5 WET BULB 23.9 WIND SPEED 22, DIR. 04 PAR. 15 WEATHER 02														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.74	34.77			22.65	521.0	0.	26.74	34.77	22.65	521.0	0.000		
8.	26.76	34.76			22.63	522.6	10.	26.76	34.76	22.63	522.9	0.053		
30. ^d	26.75	34.76			22.64	523.2	20.	26.77	34.76	22.63	523.6	0.106		
50. ^d	26.62	34.76			22.66	520.1	30.	26.75	34.76	22.64	523.2	0.158		
75. ^d	24.60	34.75			23.29	462.2	50.	26.62	34.76	22.68	520.1	0.264		
97.	21.34	34.73			24.22	374.9	75.	24.00	34.75	23.29	462.2	0.387		
120.	17.67	34.64			25.10	291.4	100.	20.88	34.72	24.33	363.6	0.491		
145.	13.19	34.46			25.96	209.7	150.	12.74	34.50	26.08	198.0	0.633		
169.	11.84	34.70			26.41	167.3	200.	11.31	34.74	26.53	155.6	0.722		
185.	11.58	34.73			26.48	160.7	250.	10.69	34.74	26.65	145.d	0.798		
216.	11.05	34.74			26.58	151.3	300.	10.13	34.72	26.73	139.1	0.370		
242.	10.75	34.74			26.64	146.7	400.	9.26	34.67	26.84	130.2	1.006		
268.	10.51	34.73			26.67	143.8	500.	8.26	34.61	26.95	120.4	1.132		
292.	10.21	34.72			26.72	140.0	600.	7.14	34.57	27.08	108.3	1.248		
389.	9.38	34.68			26.83	131.2	700.	6.27	34.55	27.19	99.3	1.353		
487.	8.41	34.62			26.93	122.0	800.	5.58	34.54	27.26	91.8	1.449		
582.	7.32	34.58			27.06	110.2	1000.	4.59	34.56	27.40	79.5	1.622		
776.	5.73	34.54			27.24	93.6	1200.	3.90	34.58	27.48	71.6	1.775		
967.	4.72	34.56			27.39	81.1								
1159.	4.07	34.58			27.47	73.3								
1450.	3.36	34.58			27.54	66.2								
CROMWELL 3, STATION 26, 10- ON LAT, 148- IW LONG, APR. 27, 1964, 0300 G.C.T. DRY BULB 26.0 WET BULB 24.0 WIND SPEED 18, DIR. 11 PAR. 11 WEATHER 01										CLOUD TYPE 6, CLEVER 6				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.60	34.32			22.67	519.3	0.	25.60	34.32	22.67	519.3	0.000		
11.	25.60	34.33			22.67	519.0	10.	25.60	34.33	22.67	519.2	0.053		
30. ^d	25.44	34.36			22.75	512.9	20.	25.53	34.34	22.71	516.3	0.105		
50. ^d	25.36	34.37			22.78	510.6	30.	25.44	34.36	22.75	512.9	0.157		
75. ^d	25.32	34.37			22.79	510.4	50.	25.36	34.37	22.78	510.6	0.260		
100.	18.94	34.52			24.69	329.7	75.	25.32	34.37	22.79	510.4	0.389		
123.	13.93	34.38			25.74	229.5	100.	18.94	34.52	24.69	329.7	0.494		
147.	12.04	34.58			26.27	179.2	150.	11.92	34.60	26.31	175.7	0.622		
174.	11.42	34.70			26.48	159.8	200.	11.06	34.72	26.57	152.2	0.704		
189.	11.23	34.72			26.53	155.3	250.	10.40	34.70	26.67	143.6	0.779		
221.	10.74	34.72			26.62	147.5	300.	10.07	34.70	26.73	139.3	0.950		
247.	10.43	34.70			26.66	144.2	400.	9.36	34.68	26.83	131.1	0.987		
274.	10.21	34.72			26.72	139.6	500.	8.52	34.62	26.92	124.1	1.116		
298.	10.08	34.70			26.72	139.4	600.	7.41	34.57	27.04	112.7	1.235		
397.	9.33	34.68			26.83	131.3	700.	6.39	34.55	27.16	101.3	1.343		
496.	8.56	34.62			26.91	124.5	800.	5.54	34.54	27.27	91.3	1.441		
595.	7.47	34.57			27.03	113.3	1000.	4.46	34.56	27.41	78.4	1.612		
791.	5.60	34.54			27.26	92.0	1200.	3.77	34.58	27.50	69.8	1.762		
968.	4.60	34.55			27.39	80.3								
1160.	3.91	34.59			27.49	70.5								
1450.	3.37	34.59			27.55	66.2								
CROMWELL 3, STATION 27, 11-30N LAT, 148- 4W LONG, APR. 27, 1964, 1400 G.C.T. DRY BULB 25.8 WET BULB 23.2 WIND SPEED 24, DIR. 06 BAR. 12 WEATHER 00										CLOUD TYPE 6, CLEVER 6				
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.58	34.89			22.79	507.5	0.	26.58	34.89	22.79	507.5	0.000		
10.	26.60	34.90			22.79	507.8	10.	26.60	34.90	22.79	507.8	0.052		
30. ^d	26.60	34.90			22.79	508.6	20.	26.60	34.90	22.79	508.2	0.103		
50. ^d	26.60	34.90			22.79	509.4	30.	26.60	34.90	22.79	508.6	0.154		
75. ^d	26.48	34.90			22.83	506.8	50.	26.60	34.90	22.79	509.4	0.257		
101.	18.03	34.59			24.97	302.9	75.	26.48	34.90	22.83	506.8	0.385		
126.	14.97	34.43			25.56	247.2	100.	18.39	34.60	24.89	310.2	0.487		
152.	12.48	34.55			26.17	189.7	150.	12.63	34.54	26.13	193.5	0.614		
177.	11.74	34.65			26.39	169.3	200.	11.10	34.72	26.56	153.2	0.702		
193.	11.24	34.71			26.53	156.3	250.	10.42	34.70	26.67	144.0	0.777		
226.	10.72	34.72			26.63	147.2	300.	9.86	34.69	26.75	136.4	0.847		
253.	10.39	34.70			26.67	143.7	400.	8.84	34.62	26.87	126.9	0.990		
279.	10.13	34.70			26.72	139.8	500.	7.78	34.57	26.99	116.2	1.103		
304.	9.81	34.69			26.76	135.7	600.	6.86	34.54	27.10	106.6	1.215		
406.	8.70	34.62			26.87	126.5	700.	6.09	34.53	27.19	97.9	1.119		
508.	7.70	34.57			27.00	115.3	800.	5.45	34.54	27.28	90.2	1.414		
609.	6.78	34.54			27.11	105.8	1000.	4.46	34.56	27.41	78.3	1.584		
812.	5.38	34.54			27.29	89.4	1200.	3.84	34.58	27.49	70.9	1.735		
1013.	4.41	34.56			27.41	77.6	1500.	3.07	34.62	27.60	60.7	1.936		
1214.	3.81	34.58			27.49	70.5								
1515.	3.04	34.62			27.60	60.3								

^dFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL	3, STATION	28, 13- ON LAT, 148- 1W LONG, APR. 27, 1964, 2400 G.C.T.						VIS. 7	CLOUD	TYPE	COVER	
DRY BULB 26.0	WET BULB 23.8	WIND SPEED 18, DIR. 07		BAR. 14	WEATHER 01							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.05	34.88			22.95	492.3	0.	26.05	34.88	22.95	492.3	0.000
10.	26.00	34.88			22.96	491.2	10.	26.01	34.88	22.96	491.2	0.050
30. ^A	25.94	34.88			22.98	490.3	20.	25.97	34.88	22.97	490.6	0.099
50. ^A	25.90	34.88			23.00	489.9	30.	25.94	34.88	22.98	490.3	0.149
75. ^A	25.86	34.88			23.01	489.7	50.	25.90	34.88	23.00	489.9	0.248
100.	21.40	34.75			24.21	375.2	75.	25.86	34.88	23.01	489.7	0.371
125.	17.26	34.58			25.15	286.5	100.	21.40	34.75	24.21	375.2	0.450
151.	13.34	34.32			25.82	223.0	150.	13.46	34.33	25.80	224.9	0.631
175.	12.05	34.54			26.24	183.0	200.	11.80	34.68	26.40	169.0	0.730
191.	11.87	34.64			26.35	172.8	250.	10.74	34.64	26.56	154.0	0.812
224.	11.45	34.70			26.48	161.5	300.	10.29	34.67	26.66	145.3	0.917
243.	10.86	34.64			26.54	155.9	400.	9.17	34.63	26.82	131.9	1.027
270.	10.53	34.66			26.61	149.4	500.	8.03	34.58	26.96	119.5	1.154
294.	10.35	34.67			26.65	146.1	600.	7.03	34.53	27.07	109.9	1.270
394.	9.24	34.63			26.81	132.7	700.	6.21	34.52	27.17	100.6	1.376
495.	8.08	34.53			26.95	120.0	800.	5.55	34.53	27.26	92.2	1.474
594.	7.68	34.53			27.06	110.5	1000.	4.57	34.54	27.38	80.9	1.649
795.	5.58	34.53			27.26	92.6	1200.	3.84	34.57	27.48	71.7	1.803
995.	4.59	34.54			27.38	81.2						
1194.	3.89	34.57			27.48	72.1						
1493.	3.08	34.62			27.60	60.7						

CROMWELL	3, STATION	29, 14-30N LAT, 148- 0W LONG, APR. 28, 1964, 1000 G.C.T.						VIS. 7	CLOUD	TYPE	COVER	
DRY BULB 24.5	WET BULB 22.2	WIND SPEED 26, DIR. 07		BAR. 17	WEATHER 00							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.17	34.69			23.08	480.1	0.	25.17	34.69	23.08	480.1	0.000
9.	25.18	34.70			23.08	480.0	10.	25.18	34.70	23.08	480.1	0.049
30. ^A	25.18	34.69			23.07	481.6	20.	25.18	34.70	23.08	480.7	0.097
50. ^A	25.18	34.69			23.07	482.3	30.	25.19	34.69	23.07	481.6	0.146
75. ^A	25.18	34.69			23.07	483.3	50.	25.18	34.69	23.07	482.3	0.243
98.	24.43	34.49			23.15	477.0	75.	25.18	34.69	23.07	483.3	0.364
122.	20.58	34.88			24.54	345.3	100.	24.15	34.52	23.26	466.7	0.434
148.	17.72	34.65			25.05	292.8	150.	17.41	34.61	25.14	288.2	0.674
173.	14.15	34.30			25.63	241.2	200.	12.40	34.35	26.03	203.9	0.798
187.	13.11	34.33			25.87	218.7	250.	10.83	34.58	26.50	160.2	0.890
220.	11.62	34.41			26.22	185.8	300.	9.83	34.54	26.64	147.2	0.968
246.	10.95	34.58			26.48	162.0	400.	8.44	34.50	26.83	129.8	1.107
271.	10.26	34.53			26.56	154.3	500.	7.44	34.50	26.98	116.5	1.232
295.	9.91	34.54			26.63	148.3	600.	6.47	34.49	27.11	104.9	1.344
393.	8.52	34.50			26.82	130.8	700.	5.64	34.50	27.22	94.6	1.444
492.	7.52	34.50			26.97	117.5	800.	5.00	34.51	27.31	86.2	1.536
549.	6.57	34.49			27.16	106.2	1000.	4.30	34.56	27.43	76.1	1.700
783.	5.08	34.51			27.30	87.4	1200.	3.69	34.58	27.50	69.2	1.947
977.	4.3 ^a	34.56			27.42	76.9						
1170.	3.78	34.56			27.47	71.2						
1465.	3.03	34.59			27.58	62.1						

CROMWELL	3, STATION	30, 15-58N LAT, 148- 4W LONG, APR. 28, 1964, 1900 G.C.T.						VIS. 8	CLOUD	TYPE	COVER	
DRY BULB 23.2	WET BULB 21.3	WIND SPEED 22, DIR. 07		BAR. 17	WEATHER 02							
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.72	34.61			23.45	444.5	0.	23.72	34.61	23.45	444.4	0.000
9.	23.73	34.62			23.45	444.4	10.	23.71	34.62	23.46	443.5	0.045
46.	22.49	34.89			24.02	392.1	20.	23.46	34.68	23.58	433.0	0.089
73.	21.74	35.14			24.42	355.0	30.	23.14	34.75	23.72	419.6	0.132
96.	21.58	35.17			24.48	349.4	50.	22.36	34.93	24.09	365.5	0.213
119.	20.89	35.16			24.66	332.9	75.	21.73	35.15	24.42	354.2	0.307
143.	19.73	35.11			24.94	307.9	100.	21.49	35.17	24.51	347.2	0.395
169.	17.76	34.84			25.23	280.6	150.	19.27	35.06	25.02	300.4	0.558
182.	16.49	34.61			25.35	268.7	200.	14.41	34.37	25.63	242.4	0.695
212.	13.15	34.27			25.82	224.5	250.	11.14	34.29	26.21	187.1	0.803
238.	11.69	34.28			26.11	197.0	300.	10.12	34.46	26.53	158.1	0.990
264.	10.66	34.31			26.32	177.2	400.	8.36	34.46	26.82	131.2	1.036
287.	10.35	34.43			26.47	163.6	500.	7.16	34.47	27.00	114.4	1.160
381.	8.66	34.46			26.77	135.7	600.	6.53	34.49	27.10	105.7	1.271
477.	7.35	34.47			26.97	117.0	700.	5.91	34.50	27.19	98.1	1.374
573.	6.71	34.49			27.08	107.9	800.	5.33	34.51	27.27	91.2	1.470
760.	5.56	34.50			27.23	94.1	1000.	4.43	34.54	27.39	79.6	1.643
949.	4.61	34.53			27.37	81.7	1200.	3.77	34.56	27.48	71.3	1.796
1139.	4.02	34.55			27.45	74.7						
1427.	3.22	34.59			27.56	64.2						

^aFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 3, STATION 31, 17-32N LAT, 148- IW LONG, APR. 29, 1964, 0500 G.C.T.														
DRY BULB 22.9	WET BULB 19.8	WIND SPEED 24, DIR. 07	BAR. 17	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 3	DYN. DPTH.							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DPHTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.38	34.54			23.50	440.0	0.	23.38	34.54	23.50	440.0	0.000		
10. ^A	23.38	34.54			23.50	440.4	10.	23.38	34.54	23.50	440.4	0.045		
30. ^A	23.26	34.57			23.55	435.7	20.	23.33	34.55	23.52	438.7	0.09		
50. ^A	23.12	34.63			23.64	422.3	30.	23.26	34.57	23.55	435.7	0.133		
76.	22.45	34.80			23.96	398.7	50.	23.12	34.63	23.64	428.3	0.220		
100.	21.76	35.01			24.31	365.9	75.	22.48	34.79	23.94	400.1	0.325		
125.	20.63	35.10			24.69	330.8	100.	21.76	35.01	24.31	365.9	0.421		
150.	19.42	35.02			24.95	306.9	150.	19.42	35.02	24.95	306.9	0.501		
175.	18.05	34.82			25.14	289.1	200.	15.62	34.45	25.43	261.7	0.734		
190.	16.60	34.58			25.31	273.6	250.	11.45	34.21	26.10	198.1	0.850		
224.	13.42	34.25			25.75	231.6	300.	10.36	34.44	26.47	163.3	0.941		
250.	11.45	34.21			26.10	198.1	400.	8.74	34.46	26.76	137.2	1.092		
276.	10.55	34.32			26.35	174.8	500.	7.46	34.45	26.94	120.5	1.223		
300.	10.36	34.44			26.47	163.3	600.	6.57	34.46	27.07	108.6	1.339		
401.	8.72	34.46			26.76	137.0	700.	5.94	34.47	27.17	100.3	1.444		
501.	7.45	34.45			26.94	120.3	800.	5.45	34.49	27.24	93.9	1.542		
600.	6.57	34.46			27.07	108.6	1000.	4.57	34.53	27.37	81.7	1.720		
800.	5.45	34.49			27.24	93.9	1200.	3.82	34.56	27.47	72.6	1.976		
999.	4.58	34.53			27.37	81.8								
1197.	3.91	34.56			27.47	73.1								
1497.	3.07	34.59			27.57	62.8								
CROMWELL 3, STATION 32, 19- ON LAT, 147-58W LONG, APR. 29, 1964, 1400 G.C.T.														
DRY BULB 22.2	WET BULB 18.9	WIND SPEED 25, DIR. 08	BAR. 19	WEATHER 02	VIS. 7	CLOUD TYPE , COVER	DYN. DPTH.							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DPHTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.22	34.53			23.53	436.3	0.	23.22	34.53	23.53	436.3	0.300		
9.	23.25	34.52			23.52	433.2	10.	23.25	34.52	23.52	438.3	0.345		
50. ^A	23.10	34.64			23.65	427.0	20.	23.25	34.53	23.53	438.0	0.359		
98.	22.36	34.98			24.12	384.1	30.	23.23	34.55	23.55	436.0	0.133		
121.	22.07	35.11			24.30	367.7	50.	23.10	34.64	23.65	427.0	0.220		
145.	20.89	35.15			24.66	334.6	75.	22.74	34.81	23.88	405.0	0.325		
168.	19.76	35.08			24.90	311.7	100.	22.35	34.99	24.13	382.9	0.424		
133.	19.27	35.05			25.01	302.2	150.	20.62	34.14	24.72	328.8	0.603		
214.	17.13	34.72			25.29	276.2	200.	18.22	34.99	25.15	298.9	0.759		
238.	15.10	34.47			25.56	250.3	250.	13.77	34.32	25.73	234.1	0.341		
264.	12.36	34.20			25.91	216.3	300.	10.84	34.29	26.26	183.5	0.996		
285.	11.40	34.26			26.15	194.4	400.	8.19	34.23	26.70	142.1	1.150		
374.	8.77	34.28			26.61	150.6	500.	6.70	34.31	26.94	120.2	1.243		
464.	7.09	34.29			26.87	126.4	600.	5.94	34.37	27.08	106.9	1.407		
556.	6.25	34.34			27.02	112.5	700.	5.36	34.42	27.20	96.5	1.510		
736.	5.19	34.44			27.23	93.4	800.	4.90	34.46	27.28	89.0	1.604		
919.	4.45	34.49			27.35	82.4	1000.	4.17	34.51	27.40	76.1	1.773		
1104.	3.85	34.54			27.46	73.0	1200.	3.55	34.56	27.50	68.8	1.922		
1382.	3.08	34.59			27.57	62.1								
CROMWELL 3, STATION 33, 20-30N LAT, 148- 0W LONG, APR. 29, 1964, 2400 G.C.T.														
DRY BULB 21.5	WET BULB 19.0	WIND SPEED 25, DIR. 07	BAR. 22	WEATHER 03	VIS. 8	CLOUD TYPE 8, COVER 4	DYN. DPTH.							
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DPHTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	22.44	34.99			24.11	381.8	0.	22.44	34.99	24.11	381.8	0.000		
10. ^A	22.42	34.98			24.10	382.4	10.	22.42	34.98	24.10	382.4	0.039		
30. ^A	22.36	35.00			24.14	380.1	20.	22.39	34.98	24.12	381.7	0.077		
50. ^A	22.26	35.05			24.20	374.5	30.	22.36	35.00	24.14	380.1	0.116		
75. ^A	22.18	35.10			24.26	369.7	50.	22.26	35.05	24.20	374.5	0.192		
100.	22.05	35.15			24.34	363.5	75.	22.1d	35.10	24.26	369.7	0.226		
123.	21.23	35.20			24.60	339.1	100.	22.05	35.15	24.34	363.5	0.378		
147.	19.42	35.03			24.96	306.1	150.	19.29	35.02	24.98	303.9	0.546		
171.	18.59	34.94			25.10	293.2	200.	17.13	34.74	25.30	274.5	0.652		
185.	18.06	34.87			25.18	286.0	250.	12.93	34.26	25.86	221.6	0.817		
218.	15.71	34.55			25.49	257.0	300.	10.39	34.10	26.20	189.1	0.921		
244.	13.37	34.30			25.80	227.5	400.	8.27	34.16	26.59	152.5	1.093		
269.	11.73	34.19			26.02	205.8	500.	6.49	34.15	26.84	128.6	1.235		
294.	10.58	34.10			26.17	191.9	600.	5.91	34.32	27.05	109.6	1.355		
391.	8.47	34.16			26.56	155.1	700.	5.50	34.42	27.18	98.6	1.460		
490.	6.59	34.14			26.82	130.8	800.	5.14	34.47	27.26	91.6	1.556		
588.	5.96	34.31			27.03	111.2	1000.	4.30	34.50	27.38	80.2	1.730		
784.	5.21	34.46			27.24	92.8	1200.	3.64	34.54	27.48	71.2	1.884		
980.	4.37	34.50			27.37	81.2								
1177.	3.71	34.54			27.47	71.9								
1473.	3.02	34.57			27.56	63.5								

^A FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA							
CROMWELL 3, STATION 34, 22°-04' LAT, 148°-08' LONG, APR. 30, 1964, 0400 G.C.T. DRY BULB 22.1 WET BULB 18.9 WIND SPEED 26, DIR. 08 BAR. 24 WEATHER 00 VIS. 7 CLOUD TYPE , COVER															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	22.24	35.12		24.26	367.1	0	22.24	35.12	24.26	367.0	0.000				
10	22.25	35.10		24.24	369.1	10	22.25	35.10	24.24	369.1	0.038				
30	22.24	35.12		24.26	368.2	20	22.25	35.11	24.25	369.0	0.075				
50	22.22	35.13		24.27	367.7	30	22.24	35.12	24.26	369.2	0.112				
75	22.18	35.14		24.29	366.8	50	22.22	35.13	24.27	367.7	0.186				
91	22.04	35.15		24.34	362.9	75	22.18	35.14	24.29	366.8	0.279				
110	21.61	35.25		24.54	345.0	100	21.84	35.20	24.43	354.7	0.369				
130	21.37	35.28		24.62	337.2	150	21.10	35.27	24.69	331.5	0.542				
151	21.08	35.27		24.70	331.1	200	18.46	34.95	25.14	290.3	0.699				
164	20.54	35.23		24.81	320.5	250	15.10	34.50	25.58	248.6	0.835				
191	19.03	35.04		25.06	297.3	300	12.02	34.21	25.99	209.5	0.950				
214	17.53	34.80		25.25	279.6	400	8.59	34.05	26.46	165.3	1.139				
280	13.17	34.31		25.84	223.8	500	6.52	34.06	26.77	135.9	1.292				
303	11.86	34.20		26.01	207.5	600	5.52	34.20	27.00	114.2	1.418				
402	8.55	34.05		26.47	164.6	700	4.99	34.33	27.17	98.8	1.525				
499	6.53	34.06		26.76	136.2	800	4.68	34.44	27.29	88.0	1.620				
596	5.55	34.19		26.99	114.9	1000	4.11	34.53	27.42	75.9	1.786				
793	4.70	34.43		27.28	83.6	1200	3.66	34.56	27.49	70.1	1.934				
987	4.14	34.53		27.42	76.3										
1184	3.70	34.53		27.46	72.6										
1477	3.22	34.58		27.55	65.2										
CROMWELL 3, STATION 35, 23-30N LAT, 148°-08' LONG, APR. 30, 1964, 2000 G.C.T. DRY BULB 21.6 WET BULB 18.5 WIND SPEED 25, DIR. 08 BAR. 26 WEATHER 02 VIS. 8 CLOUD TYPE 6, COVER 7															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	22.74	34.92		23.97	395.0	0	22.74	34.92	23.97	395.0	0.000				
10	22.74	34.91		23.96	396.1	10	22.74	34.91	23.96	396.1	0.040				
30	22.70	34.94		23.99	393.6	20	22.72	34.92	23.97	395.4	0.080				
50	22.68	35.02		24.06	388.1	30	22.70	34.94	23.99	393.6	0.120				
75	22.62	35.11		24.15	380.9	50	22.68	35.02	24.06	388.1	0.199				
100	22.40	35.19		24.27	370.1	75	22.62	35.11	24.15	380.9	0.296				
124	21.35	35.14		24.52	346.6	100	22.40	35.19	24.27	370.1	0.390				
150	20.17	35.07		24.79	322.1	150	20.17	35.07	24.79	322.1	0.565				
175	19.67	35.10		24.94	308.2	200	18.42	34.93	25.13	290.8	0.719				
190	18.88	35.00		25.07	296.5	250	14.56	34.41	25.63	243.4	0.854				
224	17.01	34.72		25.32	273.8	300	12.03	34.18	25.97	212.1	0.969				
249	14.62	34.42		25.63	244.2	400	8.98	34.08	26.42	169.2	1.161				
275	13.35	34.30		25.80	227.9	500	6.77	34.03	26.71	141.6	1.318				
300	12.03	34.18		25.97	212.1	600	5.22	34.12	26.97	115.9	1.448				
398	9.03	34.08		26.41	169.9	700	4.64	34.26	27.15	99.5	1.557				
496	6.85	34.03		26.70	142.7	800	4.47	34.39	27.28	88.7	1.652				
592	5.29	34.11		26.96	117.5	1000	3.98	34.51	27.42	76.1	1.819				
786	4.51	34.38		27.26	89.9	1200	3.48	34.56	27.51	67.8	1.964				
980	4.03	34.50		27.41	77.1										
1174	3.52	34.54		27.49	69.6										
1466	2.86	34.58		27.56	60.8										
CROMWELL 3, STATION 36, 25°-04' LAT, 148°-08' LONG, MAY 1, 1964, 0600 G.C.T. DRY BULB 20.8 WET BULB 17.2 WIND SPEED 24, DIR. 08 BAR. 25 WEATHER 00 VIS. 8 CLOUD TYPE , COVER															
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0	21.33	35.29		24.64	330.6	0	21.33	35.29	24.64	330.6	0.000				
10	21.34	35.29		24.64	331.2	10	21.34	35.29	24.64	331.2	0.034				
50	21.34	35.29		24.64	332.7	20	21.34	35.29	24.64	331.7	0.067				
75	21.34	35.29		24.64	333.7	30	21.34	35.29	24.64	332.1	0.101				
121	20.79	35.26		24.77	323.2	50	21.34	35.29	24.64	332.7	0.168				
147	20.04	35.18		24.91	310.8	75	21.34	35.29	24.64	333.7	0.252				
171	19.26	35.08		25.03	299.4	100	21.15	35.28	24.69	329.9	0.335				
186	18.66	34.97		25.10	293.7	150	19.95	35.17	24.92	309.3	0.496				
217	17.14	34.74		25.30	275.1	200	18.01	34.86	25.18	285.9	0.646				
242	15.92	34.60		25.48	258.6	250	15.51	34.54	25.53	253.9	0.782				
268	14.50	34.42		25.65	242.2	300	12.53	34.25	25.93	216.1	0.901				
292	12.91	34.28		25.87	221.2	400	9.50	34.11	26.36	175.1	1.098				
388	9.80	34.13		26.33	178.5	500	7.35	34.04	26.64	149.1	1.262				
482	7.74	34.04		26.58	154.5	600	5.63	34.11	26.91	122.2	1.399				
574	5.95	34.08		26.85	127.9	700	4.74	34.22	27.11	103.9	1.513				
764	4.47	34.30		27.20	95.2	800	4.34	34.34	27.25	90.9	1.612				
956	4.01	34.48		27.39	78.1	1000	3.91	34.49	27.42	76.2	1.781				
1146	3.57	34.51		27.46	72.2	1200	3.46	34.55	27.51	68.2	1.927				
1435	3.00	34.56		27.56	63.7										

^FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL	3, STATION	37, 26-25N LAT, 148- 0W LONG, MAY	1, 1964, 1600 G.C.T.		DRY BULB 19.0	WET BULB 16.9	WIND SPEED 22, DIR. 08	BAR. 26	WEATHER 03	VIS. 8	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.	20.93	35.33		24.76	317.4	0.	20.93	35.33	24.78	317.3	0.000		
11.	20.94	35.35		24.80	316.5	10.	20.94	35.35	24.79	316.6	0.012		
52. ^A	20.44	35.35		24.92	306.6	20.	20.84	35.35	24.82	314.3	0.064		
75. ^A	20.44	35.34		24.92	306.8	30.	20.72	35.35	24.85	311.8	0.096		
103.	20.41	35.35		24.93	306.8	50.	20.47	35.33	24.91	307.1	0.158		
129.	20.45	35.34		24.92	309.0	75.	20.44	35.34	24.92	306.8	0.235		
155.	19.76	35.18		24.98	304.0	100.	20.43	35.35	24.93	306.7	0.313		
180.	18.47	34.97		25.15	288.4	150.	19.95	35.22	24.96	305.7	0.457		
195.	17.21	34.74		25.28	276.0	200.	16.85	34.68	25.33	272.0	0.613		
229.	14.82	34.42		25.58	247.8	250.	13.16	34.24	25.79	228.0	0.739		
256.	12.74	34.20		25.84	222.9	300.	11.30	34.15	26.08	201.3	0.947		
283.	11.76	34.16		26.00	209.2	400.	9.01	34.08	26.41	169.9	1.034		
308.	11.10	34.14		26.11	198.3	500.	6.40	34.01	26.69	143.4	1.192		
409.	8.82	34.07		26.44	167.5	600.	5.34	34.07	26.92	121.1	1.326		
509.	6.62	34.01		26.71	141.2	700.	4.60	34.18	27.10	104.7	1.440		
608.	5.26	34.08		26.94	119.5	800.	4.22	34.30	27.23	92.6	1.540		
801.	4.22	34.30		27.23	92.5	1000.	3.70	34.44	27.39	77.6	1.712		
998.	3.70	34.44		27.39	77.7	1200.	3.26	34.53	27.51	67.6	1.899		
1193.	3.29	34.52		27.50	68.5								
1459.	2.76	34.58		27.59	59.7								

CROMWELL	3, STATION	38, 25- ON LAT, 151- 3W LONG, MAY	2, 1964, 0900 G.C.T.		DRY BULB 22.2	WET BULB 18.9	WIND SPEED 14, DIR. 07	BAR. 23	WEATHER 00	VIS. 8	CLOUD TYPE , COVER	DYN. DPTH.
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	22.15	35.19		24.34	359.6	0.	22.15	35.19	24.34	359.6	0.000	
10.	22.16	35.18		24.33	360.9	10.	22.16	35.18	24.33	360.9	0.037	
30. ^A	22.10	35.21		24.37	357.9	20.	22.17	35.19	24.33	361.1	0.073	
48.	21.56	35.29		24.58	338.5	30.	22.10	35.21	24.37	357.9	0.109	
75.	21.29	35.30		24.66	331.6	50.	21.54	35.29	24.59	337.6	0.179	
99.	20.56	35.22		24.80	319.4	75.	21.29	35.30	24.66	331.6	0.264	
122.	19.92	35.14		24.91	309.7	100.	20.53	35.22	24.80	318.9	0.346	
148.	19.07	35.00		25.02	299.7	150.	18.96	34.98	25.03	298.6	0.501	
173.	17.80	34.77		25.16	286.8	200.	16.94	34.71	25.33	272.0	0.645	
189.	17.47	34.76		25.24	280.3	250.	14.40	34.48	25.72	235.7	0.773	
220.	15.80	34.60		25.50	255.4	300.	12.21	34.28	26.01	208.5	0.945	
246.	14.63	34.50		25.69	238.5	400.	9.05	34.09	26.42	169.4	1.076	
274.	13.12	34.34		25.88	220.5	500.	6.49	34.02	26.74	138.4	1.231	
298.	12.28	34.28		26.00	209.4	600.	5.13	34.10	26.97	116.7	1.360	
393.	9.26	34.10		26.39	172.0	700.	4.53	34.21	27.13	101.7	1.470	
489.	6.70	34.02		26.71	141.3	800.	4.26	34.33	27.25	90.7	1.568	
586.	5.25	34.08		26.94	119.1	1000.	3.72	34.47	27.42	75.7	1.736	
779.	4.33	34.31		27.22	92.9	1200.	3.29	34.55	27.52	66.7	1.930	
973.	3.76	34.46		27.40	77.0							
1167.	3.39	34.52		27.49	69.5							
1462.	2.81	34.58		27.59	60.2							

CROMWELL	3, STATION	3 ^a , 25- IN LAT, 154- 0W LONG, MAY	2, 1964, 2400 G.C.T.		DRY BULB 25.5	WET BULB 20.7	WIND SPEED 15, DIR. 08	BAR. 22	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2	DYN. DPTH.
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	23.24	34.93		23.83	408.0	0.	23.24	34.93	23.83	408.0	0.000	
10.	23.19	34.91		23.83	408.5	10.	23.19	34.91	23.83	408.5	0.042	
50. ^A	23.08	35.00		23.93	400.5	20.	23.19	34.90	23.83	409.3	0.033	
76.	22.67	35.24		24.24	371.5	30.	23.17	34.92	23.84	408.2	0.124	
102.	22.08	35.24		24.40	357.9	50.	23.08	35.00	23.93	400.5	0.205	
127.	20.78	35.12		24.66	333.3	75.	22.64	35.23	24.23	372.7	0.303	
152.	19.51	35.01		24.92	309.9	100.	22.14	35.25	24.39	358.9	0.395	
177.	18.16	34.88		25.16	287.4	150.	19.61	35.02	24.90	311.8	0.564	
192.	17.30	34.78		25.29	275.0	200.	16.83	34.73	25.36	268.9	0.710	
226.	15.52	34.59		25.56	250.2	250.	14.17	34.43	25.73	234.1	0.837	
252.	14.07	34.42		25.74	233.0	300.	12.22	34.24	25.98	211.3	0.949	
278.	13.27	34.34		25.85	223.5	400.	9.30	34.08	26.37	174.2	1.144	
304.	12.02	34.22		26.00	209.1	500.	6.61	34.02	26.72	140.2	1.303	
404.	9.22	34.08		26.38	173.0	600.	5.20	34.08	26.95	118.4	1.433	
505.	6.49	34.02		26.74	138.7	700.	4.53	34.21	27.12	102.0	1.545	
606.	5.15	34.09		26.96	117.4	800.	4.21	34.34	27.26	89.4	1.661	
807.	4.20	34.35		27.27	88.6	1000.	3.81	34.49	27.42	75.6	1.808	
1008.	3.80	34.49		27.42	75.3	1200.	3.37	34.54	27.51	68.0	1.954	
1207.	3.35	34.54		27.51	67.8	1500.	2.84	34.58	27.59	60.7	2.150	
1509.	2.82	34.58		27.59	60.6							

^AFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA								
CROMWELL 3, STATION 40, 25° ON LAT, 157° OW LONG, MAY DRY BULB 23.0 WET BULB 19.9 WIND SPEED 16, DIR. 09				3, 1964, 1600 G.C.T. BAR. 21 WEATHER 02				VIS. 8 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	22.66	35.25		24.24	36.90	0.	22.66	35.25	24.24	36.90	0.000					
10. ^Δ	22.66	35.24		24.23	37.01	10.	22.66	35.24	24.23	37.01	0.036					
10. ^Δ	22.66	35.24		24.23	37.01	20.	22.66	35.24	24.23	37.01	0.075					
50. ^Δ	22.66	35.24		24.23	37.16	30.	22.66	35.24	24.23	37.09	0.112					
75. ^Δ	22.20	35.22		24.35	36.16	50.	22.66	35.24	24.23	37.10	0.147					
102.	20.81	35.12		24.66	33.11	75.	22.20	35.22	24.35	36.16	0.240					
126.	19.74	35.04		24.88	312.6	100.	20.93	35.13	24.63	335.4	0.367					
151.	18.44	34.90		25.11	291.8	150.	18.49	34.91	25.10	292.6	0.526					
177.	17.27	34.79		25.30	273.9	200.	16.16	34.68	25.49	256.7	0.664					
192.	16.52	34.72		25.43	261.7	250.	13.97	34.43	25.77	230.1	0.787					
225.	15.10	34.56		25.63	243.4	300.	11.93	34.24	26.03	205.6	0.897					
252.	13.88	34.42		25.78	229.1	400.	9.38	34.11	26.38	173.2	1.088					
279.	12.61	34.32		25.92	216.0	500.	7.29	34.03	26.64	148.8	1.250					
304.	11.77	34.23		26.05	203.7	600.	5.79	34.08	26.88	125.9	1.389					
404.	9.31	34.11		26.39	172.3	700.	4.86	34.19	27.07	107.2	1.507					
507.	7.16	34.03		26.65	147.3	800.	4.31	34.31	27.23	92.7	1.603					
606.	5.72	34.09		26.89	124.6	1000.	3.78	34.46	27.40	77.4	1.780					
807.	4.28	34.32		27.24	91.8	1200.	3.26	34.54	27.51	66.8	1.926					
1005.	3.77	34.46		27.40	77.1	1500.	2.70	34.58	27.60	59.0	2.117					
1204.	3.25	34.56		27.52	66.6											
1504.	2.60	34.58		27.60	59.0											
CROMWELL 3, STATION 41, 23-29N LAT, 157° OW LONG, MAY DRY BULB 23.7 WET BULB 20.9 WIND SPEED 21, DIR. 09				4, 1964, 0500 G.C.T. BAR. 19 WEATHER 03				VIS. 8 CLOUD TYPE , COVER S								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
1.	23.42	34.87		23.73	417.4	0.	23.42	34.87	23.73	417.3	0.000					
10.	23.44	34.89		23.74	416.8	10.	23.44	34.89	23.74	416.8	0.043					
30. ^Δ	23.42	34.90		23.76	416.3	20.	23.43	34.90	23.75	416.6	0.084					
50. ^Δ	23.40	34.92		23.78	415.1	50.	23.42	34.90	23.76	416.3	0.126					
75. ^Δ	23.38	34.93		23.79	414.8	75.	23.38	34.93	23.79	414.8	0.315					
100.	22.20	35.06		24.24	372.6	100.	22.20	35.08	24.24	372.6	0.414					
124.	20.96	35.05		24.56	342.9	150.	20.16	35.08	24.80	321.1	0.589					
150.	20.16	35.08		24.80	321.1	200.	17.97	34.32	25.16	287.8	0.742					
174.	19.02	34.96		25.00	302.3	250.	14.26	34.45	25.73	234.3	0.874					
190.	18.52	34.88		25.07	296.5	300.	11.86	34.26	26.07	202.7	0.984					
223.	16.36	34.67		25.43	262.7	350.	8.66	34.09	26.47	163.9	1.169					
249.	14.33	34.46		25.72	235.3	400.	6.50	34.05	26.76	136.5	1.320					
273.	12.88	34.34		25.92	215.8	500.	5.45	34.12	26.95	118.9	1.449					
298.	11.93	34.27		26.06	203.6	600.	4.84	34.24	27.12	103.3	1.562					
337.	8.76	34.09		26.46	164.9	700.	4.47	34.37	27.25	90.7	1.660					
436.	6.56	34.05		26.75	137.3	800.	3.89	34.49	27.41	76.2	1.829					
592.	5.51	34.11		26.93	120.3	1000.	3.40	34.56	27.52	66.7	1.973					
792.	4.54	34.35		27.23	92.5	1200.										
974.	3.95	34.48		27.40	77.5											
1166.	3.51	34.54		27.49	69.4											
1461.	2.86	34.61		27.61	58.6											
CROMWELL 3, STATION 42, 21-58N LAT, 157° OW LONG, MAY DRY BULB 23.2 WET BULB 20.1 WIND SPEED 22, DIR. 09				4, 1964, 1500 G.C.T. BAR. 18 WEATHER 02				VIS. 8 CLOUD TYPE , COVER								
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.				
0.	23.26	35.00		23.86	403.5	0.	23.26	35.00	23.89	402.5	0.000					
9.	23.24	35.01		23.89	402.6	10.	23.24	35.01	23.89	402.5	0.041					
30. ^Δ	23.20	35.03		23.92	400.8	20.	23.22	35.02	23.91	401.5	0.082					
50. ^Δ	23.20	35.03		23.92	401.6	30.	23.20	35.03	23.92	400.8	0.122					
75. ^Δ	23.20	35.03		23.92	402.6	50.	23.20	35.03	23.92	401.6	0.203					
100. ^Δ	23.18	35.03		23.92	403.0	75.	23.20	35.03	23.92	402.6	0.304					
123.	21.52	35.07		24.42	356.1	100.	23.18	35.03	23.92	403.0	0.406					
148.	20.60	35.05		24.66	334.5	150.	20.50	35.05	24.69	332.0	0.591					
174.	19.05	35.00		25.03	300.1	200.	16.85	34.74	25.36	268.8	0.742					
190.	17.72	34.84		25.24	280.4	250.	13.96	34.43	25.77	229.9	0.868					
222.	15.28	34.55		25.58	247.8	300.	12.29	34.32	26.02	206.9	0.978					
247.	14.12	34.44		25.75	232.4	400.	8.75	34.08	26.46	165.6	1.166					
276.	12.74	34.36		25.97	211.7	500.	6.26	34.04	26.78	133.9	1.317					
299.	12.32	34.32		26.02	207.2	600.	5.29	34.15	26.99	114.4	1.442					
399.	8.76	34.08		26.45	165.9	700.	4.87	34.28	27.14	100.8	1.551					
499.	6.27	34.04		26.78	134.2	800.	4.62	34.40	27.26	90.2	1.648					
598.	9.30	34.15		26.99	114.7	1000.	3.76	34.51	27.44	73.2	1.813					
793.	4.65	34.39		27.25	91.0	1200.	3.23	34.56	27.53	64.9	1.953					
988.	3.80	34.51		27.44	73.6											
1184.	3.33	34.53		27.50	68.2											
1478.	2.77	34.60		27.61	58.6											

^ΔFROM BT DATA

MS #1493

Created in 1849 the Department of the Interior--a department of conservation--is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

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