

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY
La Jolla, California

NORPAC Hydrographic Data

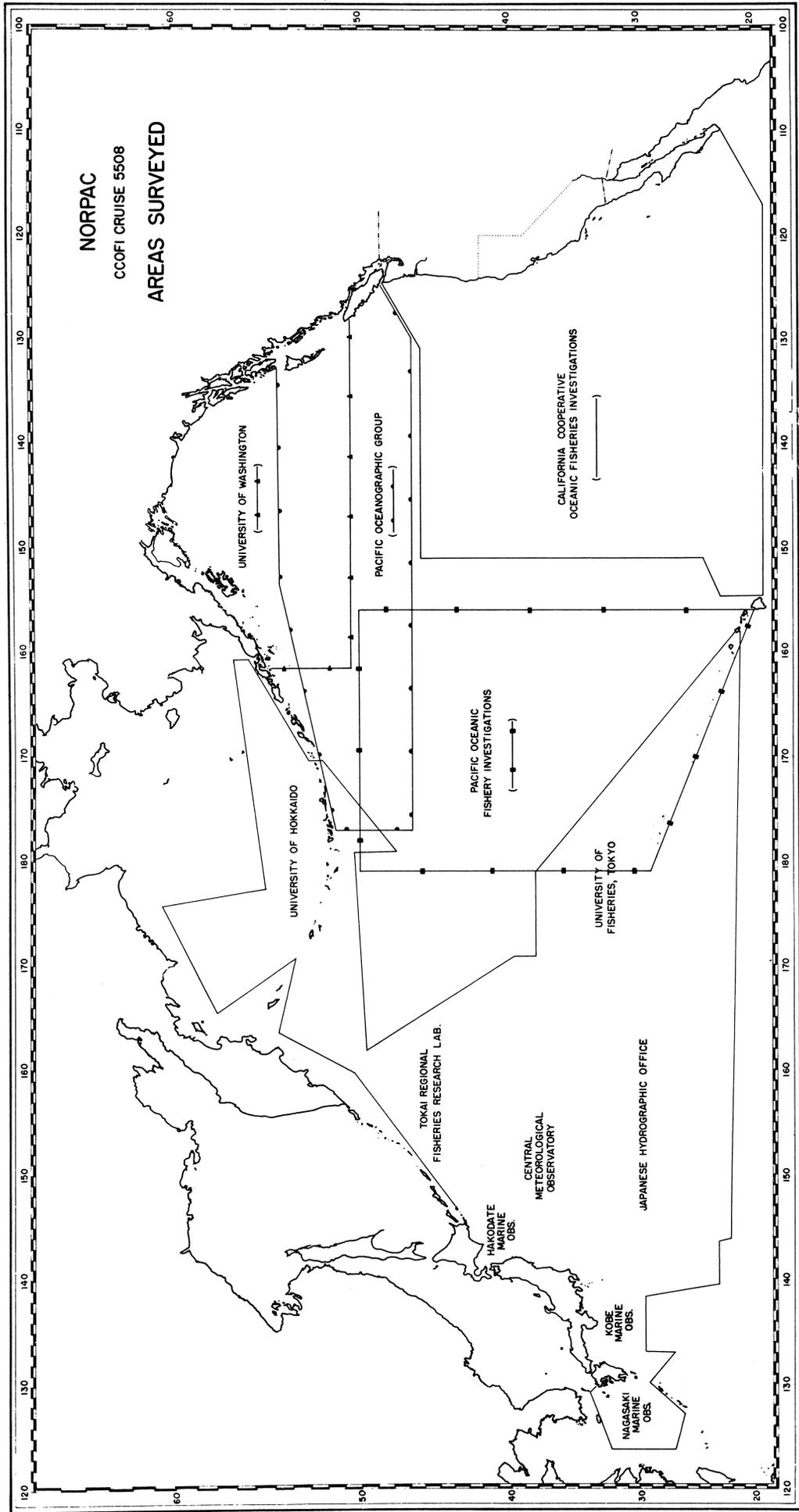
Report of the Scripps Institution
of Oceanography, University of
California, and the South Pacific
Fishery Investigations, U. S. Fish
and Wildlife Service, for the NORPAC
cruise of August-September 1955.

SIO Reference 56-4
10 February 1956

Approved for Distribution:



Roger Revelle, Director



FROM H.O. 1500

FIGURE 1

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CONTRIBUTORS TO NORPAC

JAPAN:

Japanese Hydrographic Office
Central Meteorological Observatory
Marine Observatory of Hakodate
Marine Observatory of Kobe
Marine Observatory of Nagasaki
Tokai Regional Fisheries Research Laboratory
University of Hokkaido
University of Kagoshima
University of Fisheries, Tokyo

CANADA:

Pacific Oceanographic Group,
Fisheries Research Board of Canada, Nanaimo, B. C.

UNITED STATES OF AMERICA:

University of Washington, Seattle, Washington (supported in
part by Office of Naval Research)

Pacific Oceanic Fishery Investigations, U. S. Fish and Wildlife
Service, Honolulu, T. H.

Scripps Institution of Oceanography, University of California 1/

South Pacific Fishery Investigations,
U. S. Fish and Wildlife Service 1/

Department of Fish and Game, State of California 1/

1/ These agencies are participants in the California Cooperative Oceanic
Fisheries Investigations.

LIST OF SCIENTIFIC PERSONNEL

R/V HORIZON (Captain M. F. Hopkins)

R. A. Schwartzlose, Sr. Marine Technician 1/
V. Bjerknes, Summer Fellowship Student
D. R. Bower, Fishery Aid, USFWS
C. M. Boyd, Summer Fellowship Student
B. A. Bryer, Marine Technician
G. L. Gilbert, Chemist, Laboratory Asst. (Antioch College)

R/V BLACK DOUGLAS (Captain C. W. Forster)

C. G. Worrall, Sr. Marine Technician 1/
M. M. Allen, Summer Fellowship Student
P. W. Glynn, Summer Fellowship Student
A. D. Reith, Marine Technician
B. A. Taft, Fishery Aid, USFWS
F. H. Watson, Fishery Aid, USFWS
R. D. Wilson, Electronics Technician

R/V STRANGER (Captain L. E. Davis)

R. W. Gilkey, Sr. Marine Technician 1/
R. E. Brennan, Marine Technician
J. W. Hinds, Jr., Marine Technician
L. I. Gordon, Research Assistant, Chemistry
G. Roden, Graduate Student, Research Assistant
A. V. Vorobiov, Fishery Aid, USFWS

R/V SPENCER F. BAIRD (Captain V. H. Wyatt)

R. D. King, Sr. Marine Technician 1/
N. E. Anderson, Sr. Engineering Aid
G. F. Field, Summer Fellowship Student
R. E. Hanson, Sr. Laboratory Technician
W. F. Hapgood, Fishery Aid, USFWS
R. J. Linn, Sr. Marine Technician
D. H. Morse, Summer Fellowship Student

ASHORE

J. L. Reid, Jr., Jr. Research Oceanographer
H. T. Klein, Principal Laboratory Technician
R. H. Greenbaum, Sr. Laboratory Technician
J. G. Wyllie, Sr. Laboratory Technician
L. M. Cunningham, Jr., Sr. Marine Technician
F. M. Abbott, Marine Technician
N. B. Christiansen, Marine Technician

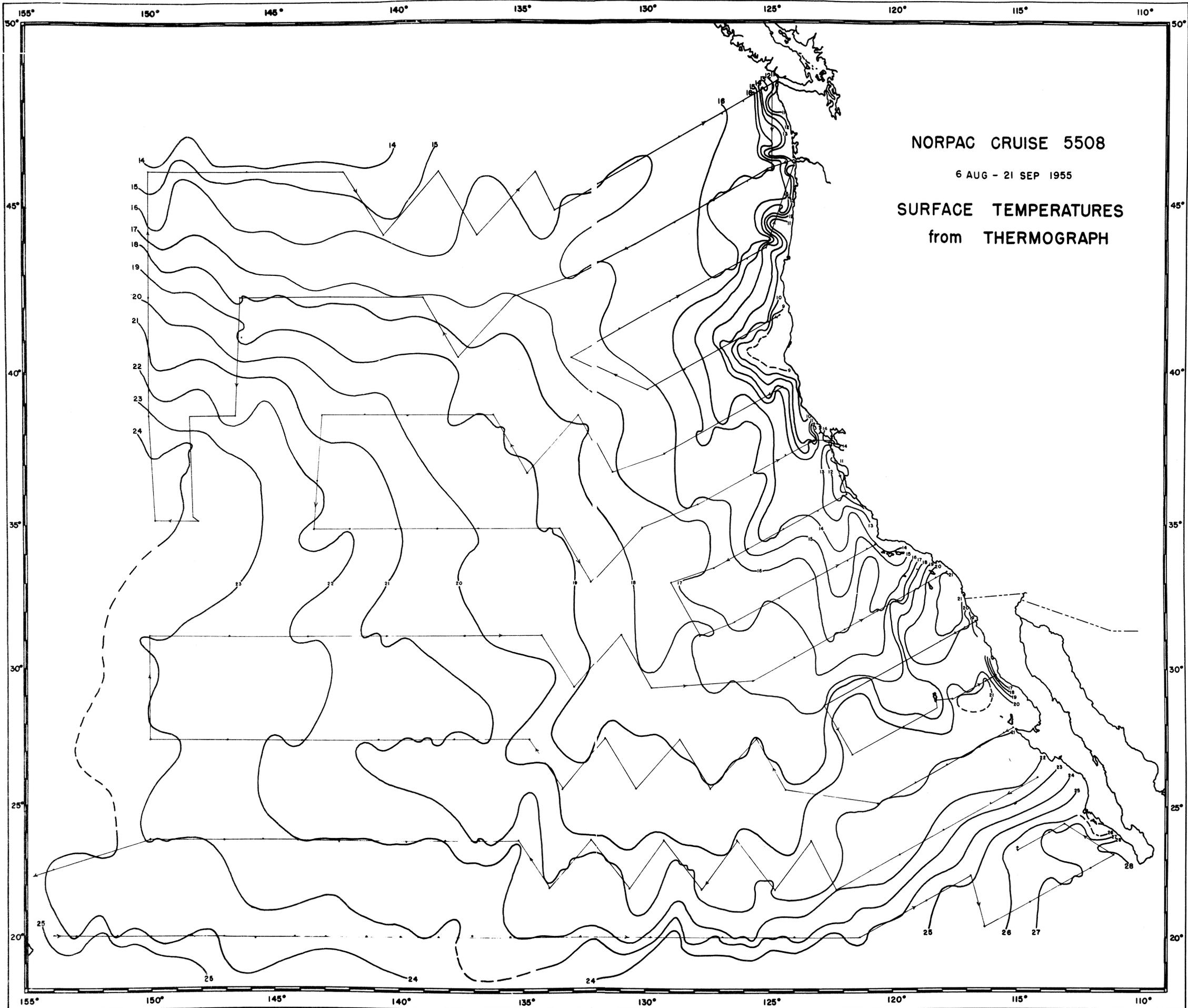
1/ In charge of hydrographic party.

List of scientific personnel (Continued)

Ashore (Continued)

F. D. Henson, Marine Technician
H. R. Kaye, Marine Technician
F. C. Wilkes, Engineering Aid
R. O. Profsner, Engineering Aid
R. B. Fiedler, Laboratory Technician
C. J. Hopper, Laboratory Technician
C. V. Gaty, Laboratory Helper

Figures 2 through 6



NORPAC CRUISE 5508
 6 AUG - 21 SEP 1955
 SURFACE TEMPERATURES
 from THERMOGRAPH

FIGURE 3

FIGURE 3

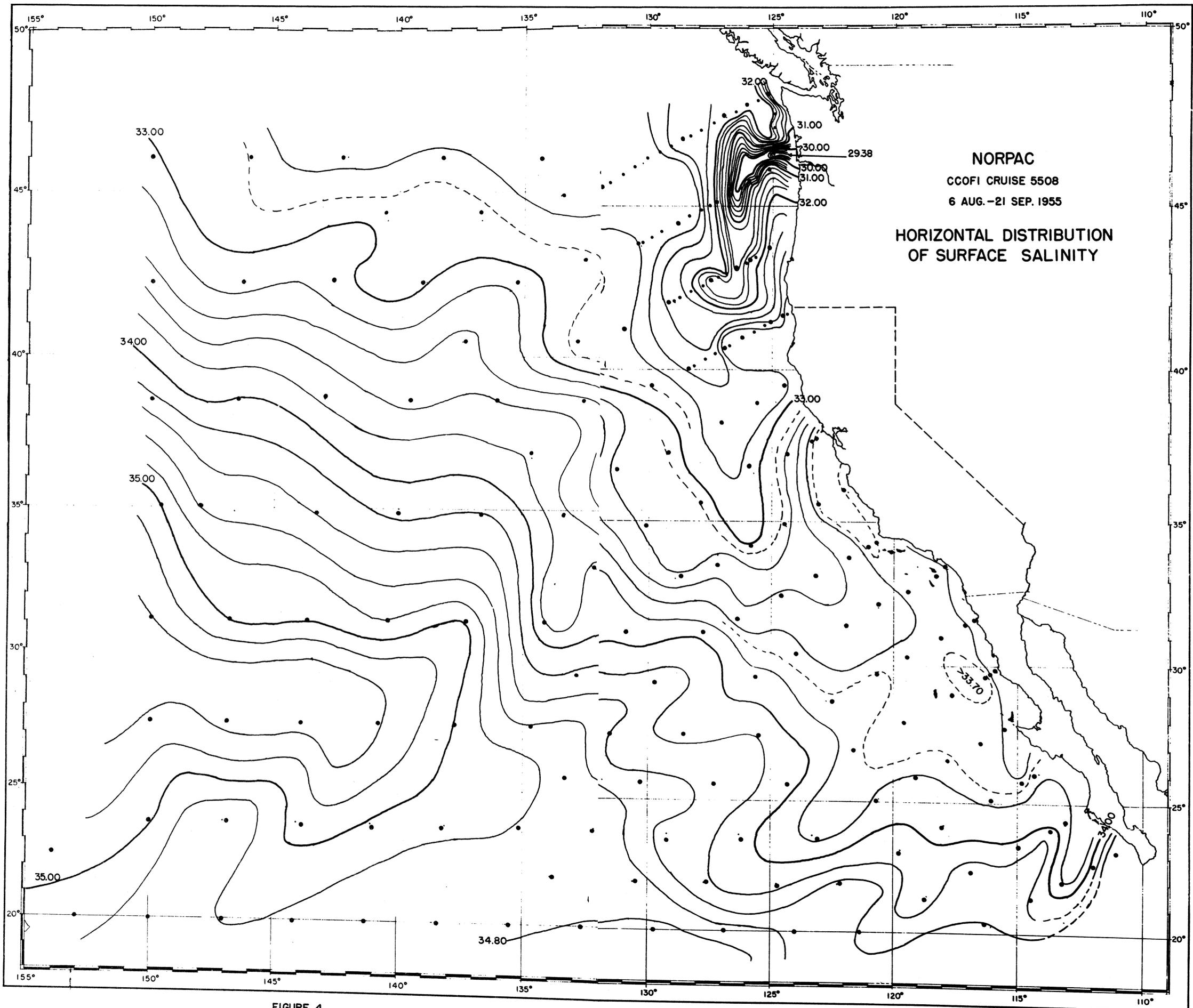


FIGURE 4

FIGURE 4

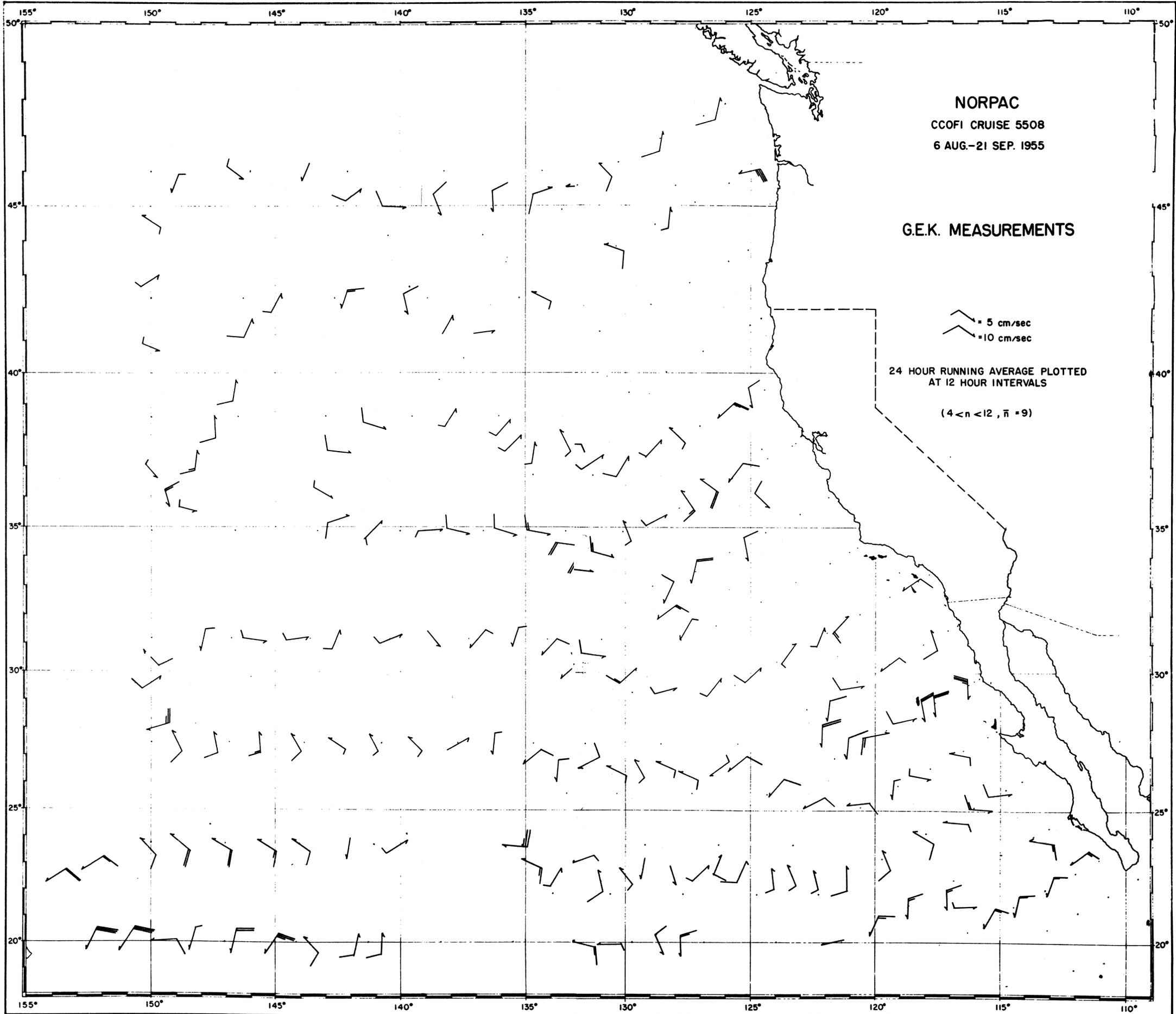


FIGURE 5

FIGURE 5

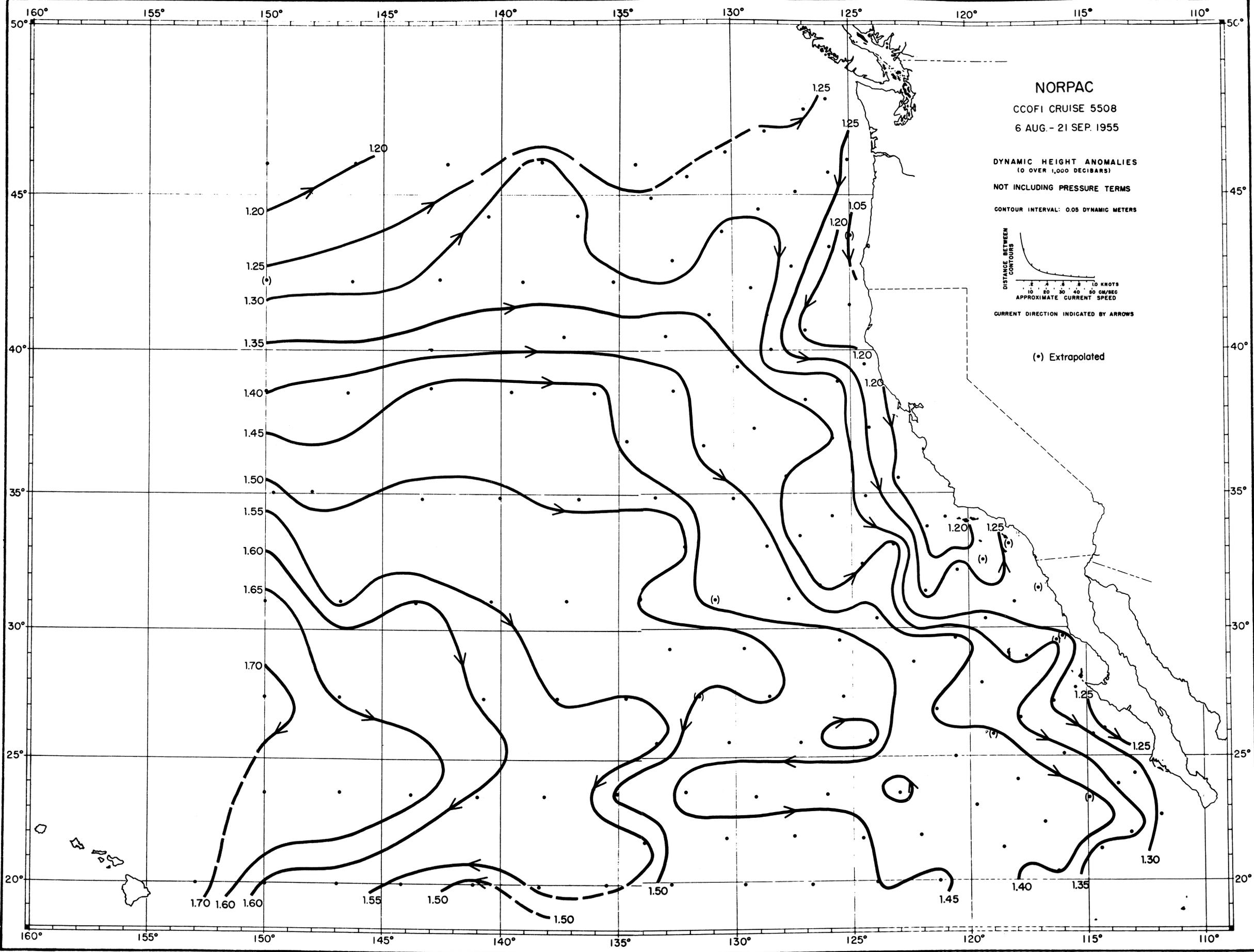


FIGURE 6

FIGURE 6

INTRODUCTION

NORPAC

In July, August, and September of 1955 agencies from Japan, Canada, and the United States combined their facilities to make a great synoptic oceanographic survey of the North Pacific Ocean. Such a coverage has long been needed to provide the background knowledge of hydrography for studies of fisheries problems. The enormous gyral of the Pacific Ocean had been covered before in piecemeal style with independent efforts being either too small or covering too long a time for their results to be used effectively in determining the currents and transport of water over the entire area. Contiguous cruises made by the Pacific Oceanographic Group of the Fisheries Research Board of Canada and the California Cooperative Oceanic Fisheries Investigations ^{1/} in August of 1950 and by the latter and the Pacific Oceanic Fishery Investigations of the U. S. Fish and Wildlife Service in Hawaii in January of 1954 had confirmed the great advantages to be gained by covering large areas in short periods. The proposal for such an effort was made at the Fifth Pacific Tuna Conference of November, 1954 (attended by all of the agencies which subsequently took part in the cruise except the Japanese) and it was immediately decided to attempt to make such a survey. Various distinguished Japanese scientists were queried as to whether Japan would participate and they at once agreed to take part.

Figure 1 shows the general areas covered by the various agencies. For the most part the 180th meridian separated the Japanese-covered area from the Canadian-United States area, although two Japanese vessels crossed over the meridian near the Aleutians. The coordination among the Japanese agencies was effected by Dr. Suda of the Japanese Hydrographic Office. Planning and coordination in the eastern part were handled by Dr. Richard H. Fleming of the University of Washington, Dr. John P. Tully of the Pacific Oceanographic Group (Canada), Mr. O. E. Sette of the Pacific Oceanic Fishery Investigations, U. S. Fish and Wildlife Service, and Mr. Joseph L. Reid, Jr., of the Scripps Institution.

The hydrographic work was to comprise hydrographic casts for measurement of temperature, salinity, dissolved oxygen, phosphate-phosphorus, and in some cases, silicate and deuterium; bathythermograph lowerings, thermograph records of surface temperature, measurements of surface currents with the GEK (Geomagnetic Electrokinetograph), measurement of transparency (on daylight stations) with the secchi disc, weather observations, and depth measurements with recording sonic apparatus, and collection of water samples for determination of the level of radioactivity.

The biological work consisted of net hauls for zooplankton and phytoplankton at various levels down to 1,000 meters, observations of fish, mammals and birds, trolling, and dipnetting.

^{1/}The Scripps Institution of Oceanography, University of California, and the South Pacific Fishery Investigations, U. S. Fish and Wildlife Service, are participants in this program.

In area covered, number of stations occupied, number of observations taken, and samples collected this is the largest oceanographic survey ever made in such a short period (most of the data were taken in August though a few ships began in July and did not return until mid-September).

THE HYDROGRAPHIC WORK OF

THE SCRIPPS INSTITUTION OF OCEANOGRAPHY

AND THE SOUTH PACIFIC FISHERY INVESTIGATIONS

The hydrographic data taken by the Scripps Institution of Oceanography and the South Pacific Fishery Investigations were processed by Scripps and are presented here in a preliminary form.

The vessels which covered this part of NORPAC were the R/V BLACK DOUGLAS (U. S. Fish and Wildlife Service), and the R/V HORIZON, the R/V SPENCER F. BAIRD and the R/V STRANGER (Scripps Institution of Oceanography). Both agencies are participants in the California Cooperative Oceanic Fisheries Investigations. The scientific parties on each of the four ships were composed of Scripps and U. S. Fish and Wildlife Service staff members.

The area covered and the nature of the work done on the various stations are shown in Figure 2. The data are presented in the form of general information, including weather, and in the form of tabulated values of temperature, salinity, and dissolved oxygen at the depths of observation, the interpolated values of these properties at standard depths, and the computed values of σ_t , Δ' and $\Delta D'$ at these standard depths. Phosphate-phosphorus values were not processed in time to be included in this report.

The station analysis was carried out on the form designed and in the method described by Klein (1) (see also the earlier publications by Montgomery (2), and Montgomery and Wooster (3)) including interpretation of the salinity and oxygen curves based upon their relationships with the temperature and the shape of the bathythermograph curve.

Values of ΔD have been determined at certain levels by the method described by Klein (1), which may result in errors whose maximum values are less than 0.5 dynamic centimeters at 0 over 200 decibars, 1 dynamic centimeter at 0 over 500 decibars, and 2 dynamic centimeters at 0 over 1000 decibars.

EXPLANATION OF TABLES

Station Data

General information about each station is to be found just above the tabulated data. This information includes the NORPAC station number, name of the ship, date and messenger time (Greenwich Civil Time), latitude and longitude of

station, depth of water in fathoms, wind direction and force (Beaufort scale), a verbal description of surface weather and sea state, and wire angle. When there was more than one cast on a station, messenger times and wire angles are given for each cast in the order of from shallow to deep casts.

Headings of Groups of Columns

OBSERVED: Corrected data at accepted depths of observation.

INTERPOLATED: Data at standard depths, read from curves drawn through the observed values, making use of bathythermograph data as in the method referred to in the introduction.

COMPUTED: Values derived from temperature and salinity at standard depths.

Column Headings

- Z Depth in meters at which observation was made.
- D The standard depths, in meters.
- T Temperature of water in degrees centigrade.
- S Salinity of water in grams per kilogram (‰).
- O₂ Concentration of dissolved oxygen in milliliters per liter.
- σ_t as used in THE OCEANS (4). It is an index of density. If $\rho_{s,t,o}$ is the density of water (cm³/gm) at 1 atmosphere pressure and the listed T and S, then σ_t is equal to $10^3(\rho_{s,t,o} - 1)$.
- Δ' tabulated in units of 10^5 cm³/gm as in (1). It is the term $\Delta_{s,t}$ as used in THE OCEANS (4). It is the specific volume anomaly less the pressure terms, or thermosteric anomaly as in (3). It is integrated to obtain the dynamic height anomaly $\Delta D'$ (ΔD as in THE OCEANS (4) less the pressure terms) and adjusted to the dynamic height anomaly ΔD by the method described by Klein (1).

The level of 125 meters was introduced in the integration to obtain greater accuracy in the determination of $\Delta D'$ in the layers below this level. The interpolated values at 125 meters were not tabulated.

Notes on the Tabulation of Data

1. Observed temperatures obtained by thermograph or bucket thermometers are reported only to tenths of a degree. Reversing thermometer temperatures are reported to hundredths of a degree.
2. Missing values are indicated by a hyphen (-).

3. Extrapolated values and values interpolated between remote observations are entered within parentheses.
4. Data from separate casts on a station are separated in the tables.
5. The following symbols have been used where appropriate.

p: pretrip or post-trip (premature or delayed reversal of water sampling bottle and reversing thermometers).

r: value rejected in drawing the curve, either because it is extreme or because malfunction is indicated.

u: uncertain, since the value lies a short distance off the curve. The curve was not drawn through the point, but its shape may have been influenced by the point.

This symbol was used where data from two casts on the same station overlapped and conflicted owing to time or space change or depth error, and it was necessary to neglect or average certain of the values.

REFERENCES

- (1) KLEIN, HANS T.
1955. A new technique for processing physical oceanographic data. (Scripps Institution of Oceanography; manuscript)
- (2) MONTGOMERY, R. B.
1954. Analysis of a HUGH M. SMITH oceanographic section from Honolulu southward across the equator. J. Mar. Res., 13(1): 67-75.
- (3) MONTGOMERY, R. B. and WARREN S. WOOSTER
1954. Thermosteric anomaly and the analysis of serial oceanographic data. Deep-Sea Research. London. Vol. 2, 63-70.
- (4) SVERDRUP, H. U., M. W. JOHNSON and R. H. FLEMING
1946. The Oceans. Prentice-Hall, Inc., New York.

HYDROGRAPHIC DATA

ERRATA

<u>Station Number</u>	<u>Given Position</u>	<u>Corrected Position</u>
10	46°19'N, 130°19'W	46°15'N, 130°19'W
13	44°20'N, 136°45'W	44°15'N, 136°45'W
14	44°19'N, 140°31'W	44°15'N, 140°31'W
36	40°00'N, 128°39'W	40°00'N, 128°41'W
48	39°42'N, 131°22'W	36°42'N, 131°22'W
82	31°16'N, 150°07'W	31°12'N, 150°07'W
97	28°43'N, 122°33'W	28°43'N, 122°37.5'W
102	27°26'N, 136°43.5'W	27°26'N, 137°43.5'W
123	23°34'N, 126°14'W	23°42.9'N, 126°14'W
124	23°30'N, 129°17'W	23°31'N, 129°19'W
142	23°25'N, 113°02'W	24°25'N, 113°02'W

NORPAC Station 1; HORIZON; August 31, 1955; 0220 GCT; 45°58'N, 134°22'W; sounding, 2175 fm; wind 180°, force 5; weather, moderate intermittent rain; sea, rough; wire angle, 13°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	15.29	32.68	6.28	0	15.29	32.68	6.28	24.15	378.0	0.000	
10	15.28	32.70	6.33	10	15.28	32.70	6.33	24.16	376.3	0.038	
24	14.05	32.71	6.91	20	15.25	32.71	6.39	24.17	375.7	0.075	
53	9.19	32.88	7.03	30	12.60	32.75	6.99	24.75	320.4	0.110	
67	7.89	32.94	6.88	50	9.45	32.87	7.02	25.40	258.3	0.168	
80	7.42	32.91	6.98	75	7.59	32.91	6.95	25.71	228.7	0.229	
103	6.89	32.94	6.91	100	6.98	32.94	6.92	25.82	218.2	0.285	
126	6.40	32.98	6.88	150	6.38	33.29	6.77	26.18	184.0	0.387	
154	6.42	33.38	6.32	200	6.70	33.89	5.10	26.61	143.7	0.469	0.472
204	6.71	33.91	4.94	250	6.12	33.95	4.03	26.71	133.9	0.538	
270	5.80	33.91	3.86	300	5.37	33.92	3.47	26.80	125.3	0.603	
368	4.77	33.96	2.54	400	4.55	33.98	2.12	26.94	112.0	0.722	
488	4.24	34.02	1.36	500	4.20	34.05	1.25	27.04	103.2	0.830	0.844
651	3.81	34.23	0.65	600	3.90	34.21	0.70	27.19	88.7	0.926	
870	3.40	34.32	0.42	700	3.75	34.25	0.52	27.24	83.8	1.012	
1121	2.96	34.46	0.45	800	3.56	34.29	0.46	27.29	79.2	1.093	
1418	2.48	34.54	0.71	1000	3.18	34.40	0.42	27.42	67.2	1.239	1.279
1691	2.14	34.60	1.10	1200	2.80	34.48	0.50	27.51	58.3	1.365	
1977	1.93	34.69u	1.55	1500	2.35	34.56	0.82	27.62	48.1	1.524	
2368	1.76	34.65	1.93	2000	1.90	34.63	1.65	27.71	39.2	1.743	

NORPAC
Station
1

NORPAC Station 2; HORIZON; August 29, 1955; 2145 GCT; 46°00'N, 138°12'W; sounding, 2400 fm; wind 135°, force 2; weather, cloudy; sea, moderate; wire angle, 04°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	15.59	32.84	6.32	0	15.59	32.84	6.32	24.21	372.2	0.000
10	15.18	32.75	6.36	10	15.18	32.75	6.36	24.22	370.8	0.037
25	15.09	32.75	6.38	20	15.13	32.75	6.37	24.23	369.8	0.074
55	9.63	32.86	7.11	30	15.00	32.75	6.38	24.26	367.2	0.111
71	8.33	32.94	7.00	50	10.19	32.83	7.10	25.25	272.6	0.175
86	7.90	32.89	6.92	75	8.19	32.91	6.98	25.64	236.0	0.239
111	7.44	-	6.87	100	7.60	32.90	6.88	25.70	229.6	0.297
136	7.09	32.99	6.81	150	6.88	33.14	6.79	25.99	202.1	0.406
164	6.76	33.33	6.72	200	6.73	33.61	5.50	26.38	165.1	0.497
217	6.92	33.75	5.09	250	6.79	33.89	4.82	26.59	145.3	0.575
285	6.18	33.93	4.25	300	5.90	33.92	3.97	26.74	131.4	0.644
386	4.90	33.91	2.70	400	4.80	33.92	2.50	26.86	119.6	0.770
511	4.22	34.04	1.46	500	4.26	34.01	1.46	27.00	106.9	0.883
681	3.76	34.19	0.84	600	3.93	34.13	1.04	27.12	94.9	0.984
908	3.27	34.36	0.50	700	3.76	34.21	0.83	27.21	86.9	1.075
1164	2.90	34.38	0.53	800	3.56	34.28	0.66	27.28	79.9	1.158
1473	2.42	34.54	0.73	1000	3.12	34.37	0.49	27.39	69.4	1.308
1753	2.11	34.64	1.13	1200	2.80	34.39	0.55	27.44	65.2	1.442
2047	1.90	34.65	1.56	1500	2.40	34.57	0.75	27.62	48.0	1.612
2446	1.67	34.69	2.04	2000	1.90	34.65	1.56	27.72	38.1	1.827

NORPAC
Station
2

0.501

0.899

1.352

NORPAC Station 3; HORIZON; August 28, 1955; 1650 GCT; 45°51'N, 142°16'W; sounding, 2480 fm; wind 115°, force 3; weather, cloudy; sea, moderate; wire angle, 09°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ
0	14.10	32.75	6.51	0	14.10	32.75	6.51	24.45	349.0	0.000
10	14.08	32.75	6.63	10	14.08	32.75	6.63	24.46	348.3	0.035
25	13.53	32.75	6.72	20	13.88	32.75	6.68	24.50	344.1	0.070
55	8.22	32.97	7.03	30	12.63	32.77	6.80	24.74	321.1	0.103
69	7.95	33.08	7.00	50	8.70	32.93	7.01	25.57	242.1	0.159
83	7.34	33.00	7.00	75	7.70	33.05	7.00	25.81	219.3	0.217
109	6.99	32.99	7.03	100	7.10	32.99	7.01	25.85	216.1	0.271
132	6.67	33.35	6.61	150	6.73	33.55	6.38	26.33	169.8	0.368
162	6.78	33.69	6.25	200	6.60	33.82	5.81	26.57	147.9	0.447
215	6.44	33.84	5.53	250	5.95	33.88	4.70	26.70	135.3	0.518
281	5.55	33.89	4.10	300	5.38	33.89	3.80	26.78	127.3	0.583
382	4.66	33.91	2.50	400	4.59	33.92	2.34	26.89	117.1	0.706
506	4.17	34.04	1.55	500	4.19	34.03	1.57	27.02	104.5	0.816
672	3.71	34.25	0.78	600	3.87	34.15	1.11	27.15	92.8	0.915
897	3.20	34.34	0.52	700	3.60	34.26	0.69	27.26	82.0	1.002
1152	2.71	34.42	0.48	800	3.40	34.31	0.59	27.32	76.6	1.082
1458	2.36	34.48	0.68	1000	3.01	34.37	0.49	27.41	68.0	1.226
1739	2.12	34.56	1.04	1200	2.70	34.43	0.51	27.48	60.7	1.355
2037a	1.94	34.61	1.44	1500	2.30	34.50	0.80	27.58	52.2	1.525
2437b	1.77	34.65	1.84	2000	1.90	34.59	1.58	27.67	42.9	1.763

NORPAC
Station
3

a - Alternate depth of 1989 m. rejected.

b - Alternate depth of 2318 m. rejected.

NORPAC Station 4; HORIZON; August 27, 1955; 2317 GCT; 45°59'N, 146°10'W; sounding, 2630 fm; wind 090°, force 4; weather, overcast; sea, moderate; wire angle, 18°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	Δ'
0	14.60	32.90	6.60	0	14.60	32.90	6.60	24.46	348.0	0.000		
9	14.58	32.88	6.47	10	14.58	32.88	6.47	24.45	348.6	0.035		
23	14.33	32.94	6.49	20	14.41	32.92	6.47	24.52	342.4	0.069		
51	8.71	33.10	7.48	30	13.30	32.96	6.68	24.78	317.8	0.102		
64	8.62	33.11	7.50	50	8.80	33.10	7.45	25.69	231.4	0.157		
79	7.54	33.10	7.11	75	7.80	33.10	7.17	25.84	217.0	0.213		
100	7.19	33.14	7.16	100	7.19	33.14	7.16	25.96	205.7	0.266		
125	7.01	33.29	6.84	150	6.79	33.58	6.60	26.36	167.8	0.361		
152	6.77	33.63	6.54	200	6.59	33.85	5.99	26.60	145.0	0.439	0.442	
204	6.56	33.86	5.87	250	6.15	33.90	5.09	26.69	136.2	0.510		
270	5.92	33.92	4.62	300	5.55	33.93	4.00	26.79	126.9	0.576		
368	4.77	33.95	2.75	400	4.50	34.00	2.30	26.96	110.3	0.694		
489	4.14	34.09	1.51	500	4.09	34.10	1.45	27.08	99.1	0.799	0.812	
652	3.74	34.20	0.98	600	3.80	34.17	1.08	27.17	90.2	0.894		
873	3.25	34.38	0.58	700	3.62	34.23	0.86	27.24	84.0	0.981		
1123	2.76	34.43	0.51	800	3.40	34.35	0.62	27.35	73.7	1.060		
1431	2.42	34.52	0.57	1000	3.01	34.40	0.51	27.43	65.9	1.200	1.244	
				1200	2.70	34.45	0.52	27.49	59.8	1.326		

NORPAC
Station
4

NORPAC Station 5; HORIZON; August 27, 1955; 0407, 0431, 0536 GCT; 46°00'N, 150°01'W; sounding, 2825 fm; wind 90°, force 3; weather, overcast; sea, moderate; wire angle, 04°, missing, 09°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	14.47	33.02	5.03u	0	14.47	33.02	(6.55)	24.58	337.0	0.000	
10	14.34	32.97	6.57	10	14.34	32.97	6.57	24.58	337.1	0.034	
25	13.98	32.98	6.59	20	14.13	32.98	6.58	24.62	332.7	0.067	
55	8.06	33.10	7.49	30	13.81	32.99	6.60	24.70	325.5	0.100	
70	7.56	33.10	7.23	50	8.60	33.10	7.47	25.71	228.7	0.156	
86	7.16	33.11	7.23	75	7.42	33.10	7.22	25.89	212.2	0.211	
111	6.70	33.16	7.27	100	6.84	33.13	7.26	25.99	202.1	0.263	
134	6.44	33.24	6.94	150	6.40	33.57	6.80	26.40	163.8	0.347	0.427
165	6.35	33.69	6.42	200	6.37	33.81	5.79	26.59	145.5	0.424	
219	6.12	33.84	5.53	250	5.76	33.88	4.98	26.72	133.1	0.494	
284	5.34	33.95	4.08	300	5.18	33.98	3.61	26.87	118.9	0.556	
387	4.54	34.04	2.02	400	4.45	34.05	1.93	27.00	106.3	0.669	
513	4.03	34.14	1.57	500	4.10	34.11	1.60	27.09	98.1	0.771	0.783
680	3.65	34.26	1.16	600	3.80	34.24	1.32	27.23	85.1	0.863	
907	3.16	34.34	0.74	700	3.60	34.27	1.13	27.27	81.2	0.946	
1154	2.69	34.47	0.68u	800	3.40	34.30	0.97	27.31	77.0	1.025	
1476	2.32	34.54	0.62	1000	2.99	34.39	0.63	27.43	65.8	1.168	1.205
1063	2.88	34.41	0.52u	1200	2.60	34.49	0.55	27.53	56.1	1.290	
1306	2.50	34.52	0.55	1500	2.25	34.55	0.64	27.61	48.9	1.447	
1654	2.15	34.57	0.85	2000	1.75	34.64	2.04	27.72	38.8	1.666	
2441	1.73	34.66	2.04	2500	1.64	34.66	2.10	27.75	35.6		
2934	1.56	34.69	2.67	3000	1.52	34.69	2.73	27.78	32.8		
3425	1.52	34.69	3.16	4000	1.51	34.72	3.47	27.80	30.9		
3914	1.50	34.72	3.46	5000	(1.56)	(34.71)	(3.67)				
4404	1.52	34.70	3.51								
4900	1.56	34.70	3.63								
4999	1.56	34.71	3.67								

NORPAC
Station
5

NORPAC Station 6; HORIZON; September 2, 1955; 0859 GCT; 48°11'N, 125°05'W; sounding, 63 fm; wind 360°, force 0; weather, fog in patches; sea, moderate; wire angle, 09°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	D	σ _t	Δ'	Δ'	ΔΔ
0	12.73	31.10	6.31	0	12.73	31.10	6.31	0	23.40	442.8	0.000	
10	10.99	31.78	6.33	10	10.99	31.78	6.33		24.30	363.7	0.040	
20	8.46	32.52	3.93	20	8.46	32.52	3.93		25.28	270.0	0.072	
30	7.43	32.77	4.16	30	7.43	32.77	4.16		25.63	237.0	0.097	
40	7.14	33.00	3.87	50	6.98	33.18	2.91		26.01	200.6	0.141	
49	6.98	33.17	2.91	75	6.78	33.55	2.33		26.32	170.7	0.188	
60	6.93	33.40	2.53	100	(6.4)							
70	6.82	33.49	2.34									
79	6.74	33.58	2.31									
89	6.70	33.77	2.52									

NORPAC
Station
6

NORPAC Station 7; HORIZON; September 2, 1955; 0335 GCT; 47°55'N, 126°04'W; sounding, 910 fm; wind 210°, force 2; weather, overcast; sea, rough; wire angle, 05°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	16.21	32.04	6.17	0	16.21	32.04	6.17	23.45	444.7	0.000	
10	15.94	32.14	6.18	10	15.94	32.14	6.18	23.59	431.3	0.044	
25	15.05	32.14	6.35	20	15.50	32.14	6.25	23.70	420.8	0.086	
54	7.97	32.54	6.61	30	13.40	32.19	6.50	23.93	398.3	0.127	
68	7.14	32.66	6.58	50	8.80	32.49	6.60	24.98	298.3	0.197	
84	6.97	32.90	5.60	75	7.00	32.73	6.10	25.66	234.2	0.264	
108	7.14	33.49	3.86	100	7.08	33.34	4.70	26.13	189.2	0.316	
133	7.17	33.78	3.15	150	7.03	33.90	2.85	26.57	147.7	0.400	0.473
162	6.82	33.93	2.52	200	6.40	33.97	1.95	26.71	134.3	0.470	
214	6.26	33.98	1.92	250	6.00	34.02	2.00	26.80	125.8	0.535	
283	5.91	34.04	2.04	300	5.82	34.04	2.03	26.84	121.8	0.597	
384	5.54	34.02	1.42	400	5.48	34.02	1.42	26.87	119.4	0.718	
511	4.91	34.13	0.96	500	5.00	34.11	1.05	27.00	106.8	0.831	0.845
680	4.28	34.22	0.47	600	4.50	34.18	0.60	27.10	96.9	0.933	
908	3.74	34.36	0.38	700	4.25	34.23	0.45	27.17	90.3	1.027	
1166	3.16	34.45	0.46	800	4.00	34.30	0.40	27.25	83.0	1.113	
1476	2.58	34.53	0.85	1000	3.50	34.40	0.41	27.38	70.4	1.267	1.309
				1200	3.09	34.46	0.50	27.47	62.1	1.400	
				1500	(2.48)	(34.54)	(0.95)	(27.58)	(51.4)	(1.570)	

NORPAC
Station
7

NORPAC Station 8; HORIZON; September 1, 1955; 2239 GCT; 47°36'N, 126°59'W; sounding, 1700 fm; wind 180°, force 3; weather, overcast; sea, rough; wire angle, 18°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	15.57	32.07	6.30	0	15.57	32.07	6.30	23.62	428.3	0.000		
9	15.48	32.05	6.45	10	15.48	32.05	6.45	23.62	428.6	0.043		
23	12.71	32.20	6.58	20	15.00	32.16	6.54	23.81	410.3	0.085		
52	7.75	32.54	6.65	30	10.70	32.29	6.61	24.94	302.2	0.120		
65	7.45	32.66	6.37	50	7.80	32.52	6.65	25.38	260.9	0.177		
79	7.30	32.97	5.43	75	7.36	33.08	5.75	25.89	211.7	0.236		
102	7.31	33.46	4.07	100	7.31	33.44	4.15	26.17	185.3	0.285		
124	7.26	33.69	3.42	150	7.13	33.86	3.12	26.52	151.9	0.369		
151	7.12	33.86	3.10	200	6.49	33.99	2.64	26.72	133.5	0.440	0.443	
201	6.48	33.99	2.63	250	6.10	34.01	2.11	26.78	127.2	0.505		
264	6.00	34.02	2.01	300	5.72	34.03	1.83	26.85	121.0	0.568		
361	5.30	34.07	1.62	400	5.11	34.09	1.36	26.96	110.8	0.684		
478	4.82	34.14	0.90	500	4.72	34.15	0.80	27.06	101.1	0.790	0.803	
641	4.26	34.22	0.51	600	4.38	34.20	0.58	27.14	93.4	0.887		
858	3.70	34.38	0.30	700	4.12	34.26	0.43	27.21	87.0	0.977		
1105	3.13	34.49	0.45	800	3.88	34.32	0.33	27.28	79.9	1.060		
1408	2.62	34.57	0.81	1000	3.35	34.44	0.37	27.43	65.8	1.206	1.245	
				1200	3.00	34.51	0.53	27.53	56.9	1.329		

NORPAC
Station
8

NORFAC Station 9; HORIZON; September 1, 1955; 1403 GGT; 46°56'N, 128°40'W; sounding, 1510 fm; wind 200°, force 4; weather, light fog; sea, rough; wire angle, 17°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	15.39	32.89	6.17	0	15.39	32.89	6.17	23.82	408.9	0.000
10	15.38	32.28	6.22	10	15.38	32.28	6.22	23.82	409.6	0.041
24	12.17	32.54	7.45	20	12.90	32.51	7.31	24.41	352.7	0.079
52	7.79	32.66	7.01	30	10.80	32.56	7.38	24.93	302.9	0.112
66	7.54	32.74	7.00	50	7.82	32.66	7.02	25.48	250.7	0.167
80	7.38	32.76	7.00	75	7.43	32.75	7.00	25.61	238.6	0.228
103	6.94	32.83	6.76	100	6.99	32.82	6.85	25.73	227.2	0.286
128	6.85	33.28	5.84	150	7.09	33.60	4.00	26.32	171.2	0.385
155	7.08	33.67	3.46	200	6.79	33.84	2.88	26.56	148.7	0.465
207	6.66	33.87	2.76	250	6.28	33.93	2.26	26.70	135.5	0.536
271	6.14	33.96	2.10	300	5.91	34.01	1.80	26.80	125.3	0.601
360	5.58	34.04	1.36	400	5.30	34.06	1.10	26.92	114.6	0.721
492	4.85	34.09	0.72	500	4.79	34.10	0.65	27.01	105.8	0.831
656	4.20	34.22	0.23	600	4.38	34.18	0.25	27.12	95.6	0.932
877	3.66	34.33	0.38	700	4.00	34.26	0.32	27.22	85.7	1.022
1127	3.06	34.45	0.45	800	3.78	34.32	0.35	27.29	79.0	1.105
1426	2.58	34.56	0.80	1000	3.33	34.39	0.40	27.38	70.2	1.254
1700	2.16	34.62	1.13	1200	2.98	34.48	0.50	27.49	59.8	1.384
1995	1.93	34.60u	1.59	1500	2.45	34.59	0.91	27.64	46.5	1.543
2391	1.76	34.63	1.99	2000	1.90	34.63	1.59	27.71	39.4	1.757

NORFAC
Station
9

0.468

0.845

1.295

NORPAC Station 10; HORIZON; September 1, 1955; 0429 GCT; 46°19'N, 130°19'W; sounding, 22°. 900 fm; wind 180°, force 3; weather fog, sky discernable; sea, moderate; wire angle, 22°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	16.11	32.79	6.17	0	16.11	32.79	6.17	24.05	386.8	0.000		
9	15.66	32.79	6.22	10	15.65	32.79	6.22	24.15	377.5	0.038		
23	15.38	32.79	6.24	20	15.43	32.79	6.23	24.19	373.7	0.076		
52	9.06	32.74	7.15	30	15.10	32.78	6.27	24.47	346.9	0.112		
65	8.43	32.77	7.03	50	9.70	32.74	7.11	25.26	271.9	0.174		
79	7.98	32.81	6.93	75	8.08	32.80	7.01	25.56	243.5	0.238		
102	7.35	32.88	6.54	100	7.40	32.87	6.60	25.71	228.9	0.297		
124	7.07	33.19	5.72	150	7.10	33.53	4.89	26.28	175.4	0.398		
150	7.10	33.53	4.89	200	6.98	33.84	3.88	26.53	151.0	0.479	0.482	
200	6.98	33.84	3.88	250	6.20	33.88	3.52	26.67	138.2	0.552		
261	6.01	33.89	3.46	300	5.50	33.92	3.14	26.88	127.5	0.618		
355	5.00	33.95	2.34	400	4.75	33.98	1.86	26.92	114.0	0.739		
471	4.41	34.04	1.28	500	4.31	34.08	1.06	27.04	102.5	0.847	0.862	
628	4.00	34.18	0.60	600	4.03	34.16	0.66	27.14	93.9	0.946		
842	3.59	34.36	0.32	700	3.85	34.25	0.40	27.23	85.3	1.035		
1088	3.12	34.45	0.42	800	3.65	34.33	0.32	27.31	77.2	1.116		
1390	2.56	34.52	0.79	1000	3.23	34.42	0.37	27.42	66.6	1.260	1.302	
				1200	2.90	34.48	0.56	27.50	59.2	1.386		

NORPAC
Station
10

NORPAC Station 11; HORIZON; August 31, 1955; 1845, 1929 GCT; 45° 33'N, 131° 59'W; sounding, 1850 fm; wind 200°, force 2; weather, cloudy; sea, moderate; wire angle, 10°, 13°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	15.94	32.81	6.05	0	15.94	32.81	6.05	24.10	382.3	0.000	
10	15.80	32.79	6.14	10	15.80	32.79	6.14	24.12	380.9	0.038	
25	15.14	32.76	6.31	20	15.53	32.77	6.23	24.16	376.7	0.076	
55	8.33	32.74	6.95	30	13.24	32.75	6.55	24.63	332.0	0.111	
64	8.14	32.78	6.84	50	8.72	32.74	6.94	25.41	257.4	0.170	
73	7.86	32.81	6.64	75	7.81	32.82	6.63	25.61	238.6	0.232	
87	7.61	32.84	6.64	100	7.40	32.89	6.52	25.73	227.4	0.290	
106	7.34	32.91	6.46	150	7.35	33.58	4.46	26.28	175.4	0.393	
131	7.18	33.26	5.57	200	6.99	33.89	3.21	26.57	147.1	0.474	0.477
159	7.26	33.67	4.11	250	6.48	33.97	2.60	26.70	135.3	0.544	
211	6.86	33.95	2.98	300	6.00	33.99	2.21	26.78	127.2	0.610	
285	6.14	33.99	2.31	400	5.30	34.04	1.50	26.90	115.7	0.731	
390	5.37	34.03	1.60	500	4.88	34.11	0.90	27.01	106.1	0.842	0.857
530	4.74	34.13	0.86	600	4.48	34.18	0.60	27.11	96.2	0.943	
721	4.18	34.24	0.40	700	4.20	34.23	0.41	27.18	89.8	1.036	
477	4.98	34.09	0.95	800	3.95	34.31	0.35	27.27	81.2	1.122	
647	4.36	34.21	-	1000	3.41	34.41	0.33	27.39	69.4	1.272	1.314
811	3.93	34.33	0.33	1200	3.03	34.45	0.45	27.47	62.0	1.404	
1052	3.33	34.42	0.33	1500	2.45	34.53	0.82	27.58	51.8	1.574	
1293	2.83	34.33r	0.97r	2000	1.90	34.65	1.60	27.71	37.9	1.798	
1630	2.22	34.60	0.99	2500	1.77	34.65	2.05	27.73	37.5		
2014	1.94	34.66	1.58	3000	1.60	34.70	2.51	27.78	32.8		
2403	1.82	34.65	1.94								
2894	1.64	34.69	2.51								
3292	1.54	34.72	2.50								

NORPAC
Station
11

NORPAC Station 12; HORIZON; August 31, 1955; 1037 GCT; 44°54'N, 133°31'W; sounding, 2100 fm; wind 220°, force 3; weather, partly cloudy; sea, rough; wire angle, 03°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	15.64	32.73	6.25	0	15.64	32.73	6.25	24.11	381.8	0.000
10	15.62	32.68	6.15	10	15.62	32.68	6.15	24.07	385.0	0.038
25	13.85	32.75	6.86	20	15.58	32.67	6.15	24.08	384.1	0.077
55	8.40	32.91	6.98	30	12.48	32.80	6.92	24.81	314.9	0.112
70	8.07	32.93	6.86	50	8.68	32.91	6.98	25.55	244.6	0.168
85	7.86	32.92	6.68	75	8.00	32.93	6.71	25.67	232.8	0.227
108	7.43	32.88	6.88	100	7.60	32.89	6.83	25.70	230.0	0.285
133	6.98	32.89	6.73	150	6.74	33.02	6.48	25.92	208.9	0.396
162	6.62	33.16	6.27	200	6.68	33.64	5.50	26.41	162.8	0.489
216	6.72	33.77	5.33	250	6.42	33.85	4.60	26.61	143.8	0.566
283	6.02	33.92	3.99	300	5.80	33.95	3.67	26.78	128.0	0.634
385	4.68	34.10	2.34	400	4.60	34.11	2.10	27.03	103.5	0.750
511	4.29	34.12	0.92	500	4.32	34.12	1.02	27.07	99.8	0.852
661p	3.80	34.23	0.31	600	3.99	34.18	0.45	27.16	91.9	0.947
852p	3.44	34.35	0.37	700	3.76	34.25	0.32	27.24	84.2	1.036
1062p	2.96	34.42	-	800	3.59	34.32	0.34	27.31	77.1	1.116
1317p	2.66	34.53	-	1000	3.05	34.40	-	27.43	66.1	1.259
				1200	2.70	34.48	-	27.52	57.7	1.383

NORPAC
Station
12

NORPAC Station 13; HORIZON; August 30, 1955; 1048 GCT; 44°20'N, 136°45'W; sounding, 2250 fm; wind 170°, force 5; weather, rain; sea, moderate; wire angle, 18°.

Z	OBSERVED					INTERPOLATED					COMPUTED					
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD	T	S	O ₂	σ _t	Δ'	ΔD
0	16.16	32.93	6.21	0	16.16	32.93	6.21							24.15	377.8	0.000
9	16.13	32.95	6.20	10	16.10	32.95	6.18							24.17	375.4	0.038
23	16.00	32.92	6.15	20	16.03	32.92	6.15							24.17	375.8	0.075
52	10.32	33.05	7.13	30	15.30	32.93	6.20							24.33	360.4	0.112
67	9.33	33.10	7.00	50	11.00	33.02	7.04							25.27	271.0	0.175
81	9.12	33.09	6.88	75	9.20	33.10	6.89							25.62	237.9	0.239
104	8.52	33.03	6.70	100	8.58	33.03	6.72							25.67	233.2	0.298
126	8.39	33.12	6.60	150	7.89	33.34	6.20							26.01	200.4	0.408
155	7.80	33.39	6.11	200	7.58	33.78	5.70							26.40	163.7	0.499
206	7.54	33.82	5.57	250	7.20	33.96	4.82							26.60	145.1	0.576
271	7.01	33.98	4.49	300	6.60	33.97	4.06							26.69	136.2	0.647
369	5.43	33.94	3.16	400	5.09	33.95	2.77							26.86	120.1	0.775
490	4.49	34.02	1.76	500	4.42	34.03	1.63							26.99	107.4	0.889
653	3.88	34.16	0.81	600	4.02	34.12	1.03							27.11	96.3	0.990
873	3.34	34.35	0.42	700	3.76	34.22	0.68							27.22	86.1	1.082
1124	2.96	34.44	0.36	800	3.50	34.30	0.51							27.30	77.8	1.163
1430	2.50	34.53	0.70	1000	3.10	34.40	0.37							27.43	66.3	1.308
				1200	2.80	34.46	0.40							27.50	59.7	1.434

NORPAC
Station
13

0.503

0.905

1.352

NORPAC Station 14; HORIZON; August 29, 1955; 0646 GCT; 44°19'N, 140°31'W; sounding, 2450 fm; wind 090°, force 4; weather, cloudy; sea, moderate; wire angle, 32°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	
0	15.83	32.97	6.11	0	15.83	32.97	6.11	24.24	368.7	0.000		
8	15.80	32.96	6.27	10	15.80	32.96	6.24	24.25	368.6	0.037		
21	15.80	32.95	6.21	20	15.80	32.95	6.22	24.24	369.2	0.074		
47	11.16	33.04	7.37	30	14.74	32.96	6.45	24.48	346.2	0.110		
60	9.88	33.18	7.25	50	10.80	33.09	7.35	25.35	263.5	0.170		
71	9.07	33.10	7.02	75	8.98	33.11	7.00	25.67	232.8	0.232		
92	8.74	33.15	6.70	100	8.63	33.17	6.73	25.76	224.0	0.290		
112	8.47	33.19	6.78	150	7.72	33.44	6.41	26.11	190.7	0.394	0.486	
135	7.92	33.32	6.54	200	7.40	33.80	6.00	26.44	160.0	0.482		
178	7.48	33.68	6.24	250	7.09	33.91	5.30	26.57	147.7	0.558		
234	7.25	33.89	5.57	300	6.32	33.92	4.35	26.68	136.8	0.630		
315	6.07	33.92	4.12	400	5.05	33.94	2.92	26.85	121.2	0.758		
417	4.88	33.95	2.69	500	4.46	34.02	2.00	26.98	108.1	0.873	0.889	
558	4.21	34.08	1.50	600	4.07	34.11	1.32	27.09	97.8	0.976		
747	3.67	34.20	0.77	700	3.81	34.17	0.92	27.17	90.6	1.070		
966	3.14	34.34	0.52	800	3.59	34.23	0.72	27.24	83.9	1.157		
1242	2.76	34.43	0.38	1000	3.09	34.35	0.50	27.38	70.4	1.312	1.356	
				1200	2.80	34.41	0.38	27.48	61.3	1.445		

NORPAC
Station
14

NORPAC Station 15; HORIZON; August 16, 1955; 0680 GCT; 46°03'N, 125°09'W; sounding, 800 fm; wind 360°, force 3; weather, overcast; sea, rough; wire angle, 09°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	15.94	31.23	5.87	0	15.94	31.23	5.87	22.89	498.0	0.000
10	15.28	31.92	5.97	10	15.28	31.92	5.97	23.56	433.9	0.047
25	12.26	32.51	6.90	20	13.30	32.45	6.62	24.18	374.9	0.087
49	8.64	32.66	6.95	30	11.10	32.59	6.93	24.90	306.0	0.121
65	7.85	32.68	6.84	50	8.60	32.66	6.94	25.37	261.4	0.178
78	7.64	32.72	6.66	75	7.70	32.71	6.67	25.55	244.7	0.241
97	7.40	32.91	5.84	100	7.39	32.99	5.70	25.81	219.6	0.299
121	7.28	33.40	4.45	150	7.23	33.84	3.04	26.50	154.0	0.391
151	7.21	33.85	3.12	200	6.67	34.01	2.01	26.70	134.7	0.464
198	6.68	34.00	2.02	250	6.21	34.06	1.86	26.80	125.2	0.529
260	6.14	34.07	1.91	300	5.97	34.08	1.49	26.86	119.9	0.590
349	5.76	34.09	1.18	400	5.53	34.11	0.98	26.94	112.8	0.706
463	5.07	34.15	0.60	500	4.90	34.23	0.45	27.10	97.3	0.811
614	4.64	34.30	0.28	600	4.63	34.29	0.27	27.18	90.1	0.905
828	4.18	34.36	0.16	700	4.43	34.32	0.20	27.22	85.8	0.993
1072	3.46	34.47	0.16	800	4.21	34.35	0.17	27.26	81.6	1.076
1372	2.76	34.60	0.43	1000	3.68	34.43	0.15	27.39	70.0	1.228
				1200	3.17	34.53	0.27	27.52	57.5	1.355

NORPAC
Station
15

NORPAC Station 16; HORIZON; August 16, 1955; 1339 GCT; 45°42'N, 125°59'W; sounding, 1425 fm; wind 340°, force 4; weather, intermittent drizzle; sea, rough; wire angle, 16°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	15.75	30.75	5.94	0	15.75	30.75	5.94	22.56	529.4	0.000
9	15.74	30.79	5.23 ^r	10	15.73	30.80	5.94	22.60	525.2	0.053
23	13.50	32.35	6.70	20	14.47	31.90	6.33	23.73	418.1	0.100
52	8.96	32.81	6.74	30	11.20	32.52	6.69	24.85	310.9	0.136
66	8.02	32.69	6.96	50	9.09	32.79	6.73	25.40	258.7	0.193
79	7.41	32.69	6.99	75	7.54	32.69	7.00	25.55	244.6	0.256
102	7.10	32.72	6.78	100	7.10	32.71	6.80	25.63	236.8	0.316
125	7.34	33.22	5.11	150	7.36	33.68	4.15	26.35	168.0	0.418
152	7.38	33.71	4.03	200	6.99	33.91	3.12	26.59	145.9	0.496
201	6.98	33.91	3.12	250	6.30	33.94	2.53	26.70	134.9	0.566
264	6.17	33.95	2.36	300	5.88	33.99	1.84	26.80	126.1	0.632
359	5.56	34.04	1.12	400	5.38	34.06	1.05	26.91	115.4	0.752
478	5.05	34.08	0.94	500	4.98	34.09	0.89	26.98	108.8	0.864
639	4.28	34.22	0.48	600	4.48	34.17	0.62	27.09	97.7	0.968
857	3.86	34.42	0.28	700	4.12	34.31	0.35	27.25	83.2	1.058
1107	3.20	34.46	0.35	800	3.98	34.40	0.30	27.34	74.7	1.137
1411	2.64	34.52	0.67	1000	3.42	34.45	0.32	27.42	66.7	1.279
				1200	3.02	34.48	0.45	27.49	60.1	1.406
										0.500
										0.891
										1.321

NORPAC
Station
16

NORPAC Station 17; HORIZON; August 16, 1955; 2125, 2221, 2325 GCT; 45°08'N, 127°22'W; sounding, 1600 fm; wind 310°, force 2; weather, cloudy; sea, slight; wire angle, 04°, 21°, 21°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	15.74	32.01	6.08	0	15.74	32.01	6.08	23.53	436.7	0.000		
10	15.54	31.99	5.97	10	15.54	31.99	5.97	23.56	433.9	0.044		
25	14.99	32.59	6.16	20	15.20	32.54	6.07	24.04	388.6	0.085		
55	10.02	32.66	6.95	30	14.54	32.60	6.28	24.25	368.5	0.122		
65	8.73	32.65	6.87	50	11.08	32.65	6.90	24.96	300.8	0.189		
75	8.32	32.69	6.76	75	8.32	32.69	6.76	25.44	255.0	0.259		
89	7.82	32.74	6.63	100	7.71	32.87	6.00	25.67	232.8	0.320		
108	7.68	33.02	5.67	150	7.44	33.53	4.30	26.22	180.3	0.423		
133	7.50	33.31	4.98	200	7.02	33.85	3.75	26.53	151.3	0.506	0.510	
161	7.42	33.64	4.08	250	6.39	33.93	3.33	26.68	137.0	0.578		
213	6.85	33.88	3.65	300	5.85	33.96	2.66	26.78	128.0	0.644		
289	5.96	33.96	2.88	400	5.16	34.01	1.48	26.89	116.7	0.766		
393	5.20	34.00	1.52	500	4.63	34.16	0.84	27.07	99.8	0.875	0.891	
530	4.53	34.14u	0.76	600	4.34	34.25	0.50	27.18	90.0	0.969		
720	4.08	34.27u	0.35u	700	4.12	34.30	0.42	27.24	84.0	1.056		
				800	3.90	34.38	0.36	27.32	75.9	1.136		
0	15.81u	32.01	6.16u	1000	3.50	34.49	0.27	27.46	63.3	1.276	1.318	
9	15.54u	31.96u	6.17u	1200	3.05	34.53	0.47	27.53	56.8	1.396		
464	4.81	34.17u	0.95	1500	2.50	34.58	0.86	27.62	48.3	1.554		
631	4.24	34.31u	0.44u	2000	1.85	34.68	1.55	27.75	35.4	1.764		
790	3.96	34.36	0.36									
975	3.56	34.48	0.28									
1164	3.13	34.52	0.43									
1424	2.63	34.54u	0.72									
1689	2.22	34.66	1.11u									
1409	2.64	34.58u	0.72									
1692	2.19	34.66	1.09u									
1984	1.88	34.65u	1.56									
2379	1.77	34.68	1.97									

NORPAC
Station
17

NORPAC Station 18; HORIZON; August 16, 1955; 0737 GCT; 44°31'N, 128°53'W; sounding, 1530 fm; wind 300°, force 2; weather, drizzle; sea, slight; wire angle, 05°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	15.53	32.70	1.82r	0	15.53	32.70		24.11	381.7	0.000
10	15.34	32.70	1.31r	10	15.34	32.70		24.15	377.3	0.038
25	14.98	32.71	1.52r	20	15.12	32.71		24.19	373.4	0.076
55	10.06	32.74	1.83r	30	14.78	32.71		24.28	365.4	0.113
70	8.94	32.79	1.61r	50	10.81	32.73		25.06	290.9	0.178
84	8.62	32.84	1.48r	75	8.80	32.80		25.45	253.7	0.245
110	7.91	32.92	1.62r	100	8.19	32.87		25.59	240.4	0.306
134	7.75	33.26	1.37r	150	7.62	33.42		26.11	190.7	0.414
163	7.55	33.58	1.18r	200	7.26	33.87		26.51	153.0	0.500
216	7.12	33.91	0.58r	250	6.53	33.92		26.66	139.2	0.573
283	6.03	33.93	0.73r	300	5.83	33.94		26.75	130.0	0.640
384	5.21	33.98	0.27r	400	5.14	33.99		26.89	117.3	0.764
509	4.71	34.13	0.24r	500	4.72	34.12		27.03	103.9	0.875
678	4.16	34.25	-	600	4.40	34.19		27.13	94.8	0.974
907	3.62	34.40	-	700	4.10	34.26		27.21	86.6	1.065
1166	3.10	34.48	0.11r	800	3.87	34.32		27.28	79.9	1.148
1477	2.56	34.58	0.03r	1000	3.40	34.43		27.42	66.9	1.295
				1200	3.04	34.50		27.50	58.9	1.420
										0.504
										0.891
										1.338

NORPAC
Station
18

NORPAC Station 19; HORIZON; August 17, 1955; 1838, 1933 CCT; 43°50'N, 130°30'W; sounding, 1850 fm; wind 340°, force 3; weather, overcast; sea, rough; wire angle, 06°, 13°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	15.41	32.80	6.04	0	15.41	32.80	6.04	24.21	372.0	0.000
10	15.26	32.82	6.13	10	15.26	32.82	6.13	24.26	367.1	0.037
25	14.91	32.81	6.17	20	15.02	32.81	6.15	24.30	363.3	0.074
54	9.92	32.88	6.87	30	14.19	32.81	6.29	24.48	346.5	0.109
64	9.38	32.86	6.85	50	10.50	32.86	6.83	25.22	275.3	0.171
73	9.02	32.87	6.81	75	8.98	32.87	6.79	25.48	250.6	0.237
88	8.62	32.87	6.61	100	8.44	32.88	6.76	25.57	242.4	0.298
108	8.37	32.90	6.79	150	7.40	32.97	6.51	25.78	222.0	0.415
132	7.84	32.88	6.69	200	7.60	33.81	4.00	26.42	161.5	0.511
161	7.44	33.19	5.96	250	6.90	33.89	3.25	26.58	146.9	0.588
214	7.42	33.84	3.64	300	6.00	33.91	2.77	26.72	133.0	0.658
291	6.12	33.91	2.86	400	5.13	33.99	1.95	26.88	118.1	0.784
397	5.18	33.98	2.01	500	4.62	34.05	1.16	26.99	108.0	0.897
537	4.48	34.09	0.94	600	4.22	34.17	0.67	27.13	94.2	0.998
728	4.06	34.28	0.34u	700	4.03	34.27	0.44	27.22	85.5	1.088
0	15.44u	32.75u	6.20u	800	3.91	34.31	0.39	27.27	81.3	1.171
9	15.36u	32.78u	6.21u	1000	3.45	34.42	0.37	27.40	69.1	1.322
479	4.76	34.03	1.28	1200	3.00	34.49	0.48	27.51	58.7	1.449
651	4.15	34.20	0.57	1500	2.50	34.55	0.80	27.59	50.6	1.613
813	3.89	34.31	0.46u	2000	1.85	34.60	1.55	27.68	42.0	1.847
1004	3.46	34.42	0.37							
1195	3.01	34.49	0.44							
1457	2.60	34.54	0.72							
1720	2.22	34.58	1.18							
2010	1.91	34.60	1.59							
2407	1.82	34.63	1.94							

NORPAC
Station
19

NORPAC Station 20; HORIZON; August 18, 1955; 0635 GCT; 42°58'N, 132°34'W; sounding, 2100 fm; wind 315°, force 3; weather, fog in patches; sea, moderate; wire angle, 10°.

Z	OBSERVED			D	INTERPOLATED			σ_t	COMPUTED		
	T	S	O ₂		T	S	O ₂		Δ'	Δ'	ΔD
0	15.92	32.92	6.03	0	15.92	32.92	6.03	24.19	373.7	0.000	
10	15.74	32.94	6.23	10	15.74	32.94	6.23	24.25	368.3	0.037	
25	14.32	32.88	6.58	20	15.00	32.90	6.47	24.38	355.8	0.073	
55	9.44	32.99	6.81	30	13.30	32.88	6.65	24.72	323.7	0.107	
69	9.16	33.00	6.77	50	10.00	32.95	6.80	25.37	261.4	0.166	
84	8.86	32.97	6.81	75	9.00	32.98	6.80	25.56	243.1	0.229	
108	8.60	33.05	6.65	100	8.70	33.02	6.70	25.64	235.8	0.289	
132	8.26	33.12	6.25	150	8.00	33.31	5.83	25.97	204.7	0.400	
160	7.85	33.46	5.56	200	7.64	33.86	4.53	26.45	158.7	0.491	
213	7.58	33.91	4.45	250	7.05	33.94	4.02	26.60	144.3	0.567	
280	6.50	33.96	3.72	300	6.18	33.96	3.46	26.73	131.9	0.636	
380	5.32	33.96	2.55	400	5.17	33.99	2.10	26.88	118.1	0.761	
506	4.73	34.11	1.05	500	4.78	34.09	1.09	27.00	106.2	0.873	
674	4.04	34.22	0.65	600	4.30	34.18	0.82	27.13	94.8	0.974	
899	3.70	34.42	0.33	700	4.00	34.25	0.60	27.21	86.7	1.064	
1158	3.05	34.52	0.44	800	3.80	34.36	0.40	27.32	76.1	1.146	
1468	2.56	34.58	0.81	1000	3.40	34.46	0.35	27.45	64.4	1.286	
				1200	3.00	34.53	0.50	27.53	56.1	1.406	

NORPAC
Station
20

NORPAC Station 21; HORIZON; August 18, 1955; 2108 GCT; 42°18'N, 135°19'W; sounding, 2250 fm; wind 240°, force 3; weather, cloudy; sea, moderate; wire angle, 17°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	17.37	33.12	5.89	0	17.37	33.12	5.89	24.01	390.8	0.000	
10	17.01	33.14	6.20	10	17.01	33.14	6.20	24.11	381.9	0.039	
24	16.24	33.13	6.10	20	16.54	33.13	6.16	24.21	372.3	0.076	
53	11.06	33.16	6.99	30	15.30	33.14	6.20	24.49	345.3	0.112	
67	10.19	33.24	6.57	50	11.70	33.16	6.93	25.23	274.4	0.174	
81	9.88	33.20	6.53	75	10.00	33.22	6.55	25.58	241.0	0.238	
104	9.26	33.17	6.61	100	9.37	33.17	6.61	25.65	234.8	0.298	
127	9.13	33.25	6.21	150	8.59	33.38	6.05	25.93	208.0	0.410	
153	8.52	33.40	6.02	200	8.06	33.77	5.63	26.32	171.4	0.505	0.509
204	8.02	33.82	5.59	250	7.70	34.00	4.72	26.56	148.7	0.585	
268	7.55	34.02	4.50	300	7.00	34.01	4.10	26.67	138.4	0.656	
365	5.80	33.98	3.39	400	5.43	33.99	2.98	26.85	121.2	0.786	
485	4.68	34.05	1.88	500	4.55	34.07	1.65	27.01	105.3	0.900	0.916
648	4.02	34.23	0.81	600	4.18	34.18	1.01	27.14	93.5	0.999	
867	3.62	34.40	0.35	700	3.91	34.28	0.53	27.25	83.4	1.088	
1115	2.98	34.47	0.36	800	3.75	34.37	0.39	27.33	75.0	1.167	
1412	2.62	34.59	0.69	1000	3.20	34.44	0.34	27.45	64.3	1.306	1.350
1684	2.26	34.62	1.12	1200	2.80	34.51	0.38	27.53	56.1	1.427	
1975	1.97	34.66	1.55	1500	2.50	34.60	0.83	27.64	46.3	1.581	
2376	1.76	34.68	1.50u	2000	1.90	34.66	(1.57)	27.73	37.3	1.790	

NORPAC
Station
21

NORPAC Station 22; HORIZON; August 20, 1955; 0140 GCT; 42°15'N, 139°01'W; sounding, 2360 fm; wind 180°, force 4; weather, cloudy; sea, rough; wire angle, 14°.

OBSERVED				INTERPOLATED				COMPUTED				
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	Δ'	ΔD
0	17.38	33.01	6.16	0	17.38	33.01	6.16	23.97	395.0	0.000		
10	16.92	33.04	6.07	10	16.92	33.04	6.07	24.06	386.5	0.039		
24	15.59	33.05	6.13	20	16.10	33.05	6.10	24.25	368.5	0.077		
54	10.28	33.22	6.67	30	13.55	33.09	6.39	24.83	313.2	0.111		
69	10.00	33.24	6.09	50	10.60	33.20	6.65	25.46	252.6	0.168		
83	9.78	33.26	5.13	75	9.90	33.25	5.28	25.62	237.3	0.229		
107	9.50	33.24	6.05	100	9.58	33.24	5.72	25.68	232.1	0.288		
131	9.32	33.39	6.28	150	8.90	33.53	6.21	26.00	201.3	0.398		
159	8.47	33.54	6.07	200	8.12	33.83	5.52	26.35	168.1	0.490	0.494	
210	8.06	33.88	5.48	250	7.67	33.99	4.97	26.55	149.8	0.569		
276	7.37	34.02	4.64	300	7.00	34.01	4.32	26.66	139.2	0.632		
374	5.64	33.95	3.22	400	5.28	33.97	2.85	26.85	120.9	0.762		
495	4.65	34.07	1.97	500	4.63	34.07	1.92	27.00	106.2	0.875	0.891	
658	4.01	34.18	0.82	600	4.20	34.14	1.01	27.10	96.8	0.976		
879	3.47	34.34	0.54	700	3.90	34.22	0.71	27.20	87.9	1.069		
1130	2.94	34.41	0.42	800	3.68	34.30	0.61	27.28	79.7	1.153		
1438	2.52	34.53	0.33	1000	3.19	34.38	0.48	27.39	69.3	1.302	1.346	
				1200	2.83	34.43	0.39	27.47	62.1	1.433		

NORPAC
Station
22

NORPAC Station 23; HORIZON; August 20, 1955; 1948 GCT; 42°20.0'N, 142°39.0'W; sounding, 2520 fm; wind 310°, force, 4; weather, overcast; sea, very rough; wire angle, 15°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	17.71	33.07	5.73	0	17.71	33.07	5.73	23.88	402.9	0.000	
9	17.68	33.28 ^r	5.67	10	17.69	33.07	5.66	23.89	402.0	0.040	
23	15.54	33.17	6.45	20	16.50	33.12	6.46	24.21	371.8	0.079	
51	10.75	33.29	7.09	30	13.80	33.23	6.79	24.88	307.7	0.113	
65	9.69	33.24	6.85	50	10.85	33.29	7.09	25.49	249.9	0.169	
79	9.86	33.33	6.71	75	9.79	33.28	6.78	25.67	232.6	0.229	
102	9.84	33.43	6.54	100	9.85	33.42	6.55	25.76	224.2	0.286	
125	9.35	33.49	6.35	150	9.00	33.86	5.92	26.24	178.6	0.389	
151	9.00	33.86	5.92	200	8.58	34.02	5.49	26.44	159.9	0.474	0.477
201	8.56	34.02	5.49	250	7.93	34.01	5.24	26.53	151.4	0.552	
265	7.69	34.00	5.12	300	7.19	33.99	4.69	26.64	141.2	0.625	
361	6.33	33.97	3.93	400	5.81	33.97	3.48	26.78	127.4	0.760	
481	4.81	34.00	2.44	500	4.68	34.01	2.22	26.96	110.8	0.880	0.896
644	4.12	34.13	1.16	600	4.20	34.11	1.27	27.08	99.1	0.984	
863	3.44	34.28	0.54	700	3.80	34.21	0.79	27.20	87.9	1.078	
1112	2.94	34.36	0.39	800	3.55	34.27	0.57	27.27	80.8	1.162	
1410	2.53	34.52	0.46	1000	3.19	34.32	0.45	27.35	73.7	1.317	
1681	2.27	34.56	0.92	1200	2.80	34.40	0.40	27.44	64.6	1.456	1.500
1970	1.98	34.60	1.48	1500	2.45	34.54	0.56	27.59	50.5	1.628	
2345	1.75	34.64	2.00	2000	1.99	34.60	1.45	27.70	40.8	1.858	

NORPAC
Station
23

NORPAC Station 24; HORIZON; August 21, 1955; 1242 GCT; 42°17'N, 146°16'W; sounding, 2650 fm; wind 320°, force 2; weather, overcast; sea, moderate; wire angle, 18°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	17.96	33.11	5.89	0	17.96	33.11	5.89	23.86	405.3	0.000	
9	17.96	33.12	5.95	10	17.96	33.12	5.98	23.87	404.2	0.040	
23	15.69	33.16	6.50	20	17.94	33.12	6.01	23.88	403.8	0.081	
51	10.18	33.35	7.60	30	13.19	33.27	7.10	25.04	292.9	0.116	
64	9.37	33.32	7.12	50	10.30	33.35	7.60	25.64	235.4	0.169	
79	9.08	33.33	6.83	75	9.16	33.32	6.87	25.80	220.3	0.226	
101	8.76	33.35	6.74	100	8.77	33.35	6.75	25.89	212.2	0.280	
124	8.40	33.40	7.05	150	8.40	33.73	6.50	26.23	179.5	0.380	0.466
151	8.40	33.73	6.49	200	8.22	34.02	5.92	26.49	155.2	0.463	
200	8.22	34.02	5.92	250	7.37	33.94	5.95	26.56	148.9	0.539	
263	7.17	33.93	5.96	300	6.63	33.94	5.32	26.65	139.5	0.611	
357	6.01	33.96	4.18	400	5.45	34.06	3.50	26.90	116.4	0.739	
474	4.79	34.14	2.60	500	4.60	34.14	2.35	27.06	100.7	0.848	0.863
631	4.02	34.15	1.10	600	4.20	34.14	1.35	27.11	96.0	0.946	
843	3.44	34.31	0.67	700	3.75	34.24	0.82	27.23	84.9	1.037	
1088	2.90	34.43	0.43	800	3.50	34.30	0.70	27.30	78.3	1.118	
1395	2.49	34.52	0.54	1000	3.10	34.38	0.50	27.41	67.9	1.265	1.307
				1200	2.75	34.46	0.45	27.50	59.3	1.392	

NORPAC
Station
24

NORPAC Station 25; HORIZON; August 26, 1955; 0405 GCT; 42°17'N, 150°00'W; sounding, 2740 fm; wind 260°, force 4; weather, cloudy; sea, moderate; wire angle, 07°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	19.69	33.47	5.74	0	19.69	33.47	5.74	23.70	420.7	0.000	
10	19.48	33.48	5.70	10	19.48	33.48	5.70	23.76	415.0	0.042	
25	15.98	33.55	-	20	17.28	33.53	6.02	24.34	359.8	0.080	
56	10.38	33.67	6.90	30	14.82	33.57	6.40	24.93	303.3	0.114	
70	9.86	33.73	6.59	50	10.97	33.65	6.89	25.75	225.1	0.166	
85	9.38	33.74	6.47	75	9.75	33.74	6.53	26.03	198.4	0.220	
109	8.76	33.73	6.37	100	8.92	33.73	6.43	26.16	186.7	0.268	
134	8.75	33.86	6.33	150	8.81	33.93	6.15	26.33	170.1	0.356	
163	8.84	33.98	6.05	200	8.70	34.08	5.75	26.47	157.0	0.438	0.441
216	8.52	34.11	5.65	250	8.02	34.08	5.46	26.57	147.8	0.514	
282	7.54	34.04	5.21	300	7.31	34.03	5.02	26.63	141.6	0.586	
382	6.21	33.99	3.89	400	6.03	33.99	3.63	26.78	128.0	0.721	
506	4.83	34.04	2.44	500	4.91	34.03	2.50	26.94	112.1	0.841	0.856
675	4.05	34.18	1.20	600	4.37	34.12	1.70	27.07	99.9	0.948	

NORPAC
Station
25

NORPAC Station 26; HORIZON; August 11, 1955; 0405 GCT; 43°46'N, 125°10'W; sounding, 900 fm; wind 340°, force 4; weather, overcast; sea, rough; wire angle 23°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	12.71	32.27	7.07	0	12.71	32.27	7.07	24.36	357.8	0.000	
9	12.67	32.27	7.12	10	12.67	32.27	7.15	24.37	356.7	0.036	
23	8.99	32.57	6.90	20	9.95	32.52	7.04	24.92	304.2	0.069	
51	8.30	32.73	6.35	30	8.79	32.62	6.83	25.29	268.8	0.097	
64	8.11	32.99	5.35	50	8.30	32.73	6.30	25.47	252.0	0.149	
79	7.98	33.20	4.71	75	7.99	33.14	4.85	25.84	217.0	0.208	
102	8.20	33.68	4.13	100	8.20	33.65	4.13	26.20	182.3	0.258	
125	7.79	33.92	3.21	150	7.38	33.98	2.75	26.58	146.4	0.338	
152	7.37	33.98	2.75	200	6.89	34.04	2.30	26.70	135.6	0.409	0.412
205	6.84	34.04	2.24	250	6.42	34.05	1.88	26.76	129.2	0.475	
269	6.24	34.05	1.71	300	6.05	34.07	1.40	26.84	122.1	0.538	
367	5.80	34.14	1.01	400	5.65	34.17	0.89	26.96	110.1	0.654	
487	5.13	34.23	0.58	500	5.01	34.24	0.51	27.09	98.0	0.758	0.770
649	4.54	34.30	0.36	600	4.61	34.29	0.39	27.18	90.1	0.852	
866	4.04	34.40	0.35	700	4.40	34.33	0.35	27.24	84.3	0.939	
				800	4.18	34.37	0.35	27.29	78.9	1.021	

NORPAC
Station
26

NORPAC Station 27; HORIZON; August 10, 1955; 2204 GCT; 43°25'N, 125°58'W; sounding, 1690 fm; wind 350°, force 4; weather, overcast; sea, rough; wire angle, 23°.

Z	OBSERVED			D	INTERPOLATED			σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂		Δ'	Δ'	ΔD
0	14.56	31.98	6.11	0	14.56	31.98	6.11	23.76	414.6	0.000	
9	14.44	31.91	6.31	10	14.43	31.91	6.30	23.74	416.9	0.042	
22	13.94	32.20	5.66	20	14.16	32.13	6.03	24.00	392.1	0.002	
50	8.28	32.65	6.72	30	11.00	32.38	6.31	24.32	361.8	0.120	
64	8.08	32.70	6.69	50	8.28	32.65	6.72	25.41	257.5	0.132	
78	7.78	32.83	6.62	75	7.81	32.75	6.66	25.56	243.2	0.244	
100	7.96	33.36	4.41	100	7.96	33.36	4.41	26.02	200.0	0.300	
124	7.80	33.71	3.36	150	7.60	33.85	3.09	26.45	158.9	0.388	
150	7.60	33.85	3.09	200	6.81	34.05	2.71	26.72	133.7	0.461	
199	6.82	34.05	2.75	250	6.40	34.03	2.35	26.75	130.1	0.527	
260	6.33	34.02	2.28	300	6.05	34.05	1.95	26.82	123.9	0.590	
351	5.72	34.10	1.59	400	5.39	34.12	1.21	26.96	110.1	0.707	
464	5.00	34.16	0.89	500	4.82	34.19	0.78	27.07	99.8	0.812	
616	4.39	34.32	0.53	600	4.41	34.31	0.57	27.21	86.7	0.905	
817	3.83	34.58r	-	700	4.03	34.38	-	27.31	77.5	0.987	
1056	3.36	34.46	3.37r	800	3.82	34.40	-	27.35	73.4	1.063	
1346	2.83	34.52	3.64u	1000	3.45	34.45	-	27.43	66.1	1.202	
				1200	3.10	34.49	-	27.49	59.9	1.328	
											0.464
											0.826
											1.241

NORPAC
Station
27

NORPAC Station 28; HORIZON; August 10, 1955; 1110 GCT; 42° 46' N, 127° 32' W; sounding, 1600 fm; wind 340°, force 4; weather, overcast; sea, rough; wire angle, 10°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	15.54	31.53	6.07	0	15.54	31.53	6.07	23.20	467.8	0.000	
10	15.57	31.46	5.96	10	15.57	31.46	5.96	23.15	473.2	0.047	
25	15.21	32.04	5.75	20	15.55	31.52	5.88	23.22	466.5	0.094	
54	10.70	32.56	7.04	30	15.05	32.12	5.77	23.76	415.0	0.138	
69	9.10	32.65	6.77	50	11.60	32.52	6.93	24.85	310.9	0.211	
82	8.80	32.67	6.72	75	8.92	32.65	6.74	25.32	266.1	0.283	
105	-	31.48	6.17	100	8.40	32.86	6.35	25.55	244.1	0.347	
128	7.94	-	-	150	7.79	33.60	3.65	26.23	179.4	0.452	0.538
156	7.74	33.66	3.60	200	7.32	33.93	3.03	26.66	139.0	0.534	
205	7.22	33.96	2.98	250	6.62	34.03	2.62	26.72	132.9	0.604	
267	6.46	34.04	2.52	300	6.10	34.06	2.30	26.82	123.7	0.668	
360	-	34.09	1.74	400	5.31	34.10	1.74	26.95	111.3	0.785	
476	4.79	34.17	1.08	500	4.63	34.28	0.65	27.17	90.8	0.886	0.902
635	4.52	34.33	0.43	600	4.57	34.32	0.48	27.20	87.3	0.976	
852	4.04	34.38	0.29	700	4.25	34.35	0.30	27.27	81.5	1.060	
1103	3.33	34.48	0.38	800	4.03	34.37	0.29	27.30	78.0	1.140	
1408	2.76	34.58	0.72	1000	3.61	34.43	0.31	27.40	68.9	1.286	1.329
				1200	3.18	34.50	0.44	27.50	59.6	1.415	

NORPAC
Station
28

NORPAC Station 29; HORIZON; August 9, 1955; 2155, 2316 GCT; 42° 03' N, 129° 19' W; sounding, 1820 fm; wind 345°, force 4; weather, overcast; sea, rough; wire angle, 15°, 30°

Z	OBSERVED		INTERPOLATED				COMPUTED			
	T	S	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	15.36	32.38	0	15.36	32.38	6.10	23.90	401.4	0.000	
9	15.37	32.31	10	15.35	32.31	6.05	23.85	406.5	0.040	
25	15.32	32.37	20	15.34	32.35	6.05	23.88	403.4	0.081	
53	11.88	32.66	30	14.90	32.41	6.06	23.96	395.3	0.121	
64	10.94	32.63	50	12.21	32.63	6.07	24.37	356.8	0.196	
73	9.98	32.64	75	9.80	32.69	6.55	25.20	277.2	0.276	
87	9.20	32.74	100	8.96	32.87	5.96	25.49	250.2	0.342	
107	8.84	32.92	150	8.20	33.53	4.29	26.11	191.4	0.452	
130	8.47	33.21	200	7.67	33.81	3.70	26.41	162.8	0.541	0.545
159	8.08	33.62	250	7.00	33.90	3.37	26.57	147.2	0.618	
209	7.58	33.84	300	6.03	33.98	2.76	26.76	129.3	0.687	
284	6.29	33.96	400	5.25	34.02	1.74	26.89	116.8	0.810	
390	5.29	34.02	500	4.70	34.09	1.29	27.01	105.5	0.922	0.939
529	4.56	34.12	600	4.40	34.21	0.55	27.14	93.9	1.021	
722	4.20u	34.29u	700	4.21	34.29	0.32	27.22	86.1	1.111	
			800	4.02	34.34	0.30	27.28	80.1	1.194	
1	15.36	32.30u	1000	3.58	34.51	0.31	27.47	62.5	1.337	1.382
425	5.17	34.03	1200	3.18	34.52	0.51	27.51	58.1	1.458	
579	4.44	34.19	1500	2.60	34.54	0.90	27.58	51.4	1.622	
725	4.16u	34.32u	2000	2.00	34.65	1.60	27.72	38.1	1.846	
943	3.67	34.51	2500	1.70	34.66	2.11	27.75	35.9	2.032	
1163	3.22	34.61r								
1474	2.62	34.54								
1834	2.08	34.64								
2205	1.86	34.66								
2679	1.66	34.67								
2974	1.63	34.70								

NORPAC
Station
29

NORPAC Station 30; HORIZON; August 9, 1955; 0925 GCT; 41°13'N, 131°07'W; sounding 1995 fm; wind 015°, force 4; weather, overcast; sea, moderate; wire angle 16°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	15.68	32.83	6.06	0	15.68	32.83	6.06	24.17	375.5	0.000
10	15.71	32.77	5.88	10	15.71	32.77	5.88	24.12	380.2	0.038
24	15.42	32.94	6.12	20	15.56	32.87	6.06	24.23	369.7	0.075
53	11.08	32.92	6.76	30	14.59	32.94	6.30	24.50	344.1	0.111
68	9.98	32.84	6.63	50	11.40	32.93	6.75	25.11	286.1	0.174
83	9.86	32.91	6.56	75	9.86	32.86	6.56	25.33	265.2	0.243
106	9.16	32.92	6.35	100	9.50	32.95	6.35	25.46	253.0	0.308
132	8.52	33.05	5.84	150	8.26	33.29	5.43	25.91	210.0	0.425
164	8.12	33.43	5.10	200	7.82	33.80	3.25	26.38	165.8	0.519
210	7.76	33.84	3.13	250	7.30	33.95	2.75	26.58	147.0	0.597
273	7.04	33.99	2.56	300	6.80	34.03	2.28	26.71	134.3	0.667
366	-	34.04	1.74	400	6.04	34.11	1.45	26.87	119.0	0.794
487	5.53	34.14	1.02	500	5.47	34.15	1.00	26.97	109.8	0.908
647	4.68	34.22	0.57	600	4.99	34.19	0.74	27.05	101.5	1.014
864	4.11a	34.36	0.26	700	4.47	34.26	0.40	27.17	90.2	1.110
1114	3.36	34.48	0.39	800	4.20	34.34	0.29	27.27	81.5	1.195
1422	2.77	34.53	0.63	1000	3.66	34.44	0.31	27.39	69.3	1.346
				1200	3.17	34.50	0.47	27.49	59.9	1.475

NORPAC
Station
30

a - Mean value taken between 4.07 and 4.15.

NORPAC Station 31; HORIZON; August 8, 1955; 2148, 2300 GCT; 40°28'N, 132°57'W; sounding, 2250 fm; wind 045°, force 4; weather, cloudy; sea, rough; wire angle, 05°, 10°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	16.26	32.86	5.67	0	16.26	32.86	5.67	24.07	385.4	0.000	
10	16.06	32.86	5.71	10	16.06	32.86	5.71	24.11	381.2	0.038	
25	15.55	33.10	5.89	20	15.76	33.02	5.81	24.30	363.2	0.076	
55	11.10	33.09	6.56	30	14.40	33.10	6.18	24.66	329.1	0.110	
65	10.44	33.04	6.48	50	11.53	33.09	6.54	25.22	276.2	0.171	
76	10.08	32.98	6.49	75	10.10	32.98	6.49	25.38	260.3	0.238	
91	9.99	33.04	6.32	100	9.85	33.07	6.24	25.49	249.8	0.302	
110	9.64	33.10	6.21	150	8.55	33.25	5.70	25.85	216.2	0.419	
135	8.84	33.17	5.85	200	8.23	33.67	4.90	26.21	181.3	0.518	0.522
165	8.37	33.33	5.60	250	7.82	33.92	4.25	26.47	157.1	0.603	
218	8.20	33.86	4.67	300	6.95	33.95	3.77	26.63	142.2	0.678	
294	7.06	33.95	3.86	400	5.50	33.98	2.80	26.83	123.2	0.810	
401	5.50	33.98	2.79	500	4.69	34.05	0.94	26.99	107.8	0.926	0.943
542	4.72	34.11	1.02	600	4.55	34.17	0.85	27.09	97.7	1.028	
731	4.06	34.27	0.44	700	4.18	34.23	0.50	27.19	89.1	1.122	
				800	3.80	34.33	-	27.29	78.9	1.206	
0	16.41u	32.86	-	1000	3.38	34.41	-	27.41	68.1	1.353	1.399
10	16.09u	32.86	-	1200	3.00	34.51	-	27.53	56.8	1.478	
488	4.69	34.03	-	1500	2.55	34.59	-	27.62	48.2	1.635	
663	4.27a	34.20	-	2000	2.02	34.64	-	27.70	39.9	1.748	
826	3.70	34.33	-								
1020	3.31	34.43	-								
1218	2.97	34.52	-								
1485	2.57	34.58	-								
1756	2.19	34.27r	-								
2052	1.96	34.51r	-								
2453	1.76	34.66	-								

NORPAC
Station
31

a - Mean Value taken between 4.24 and 4.30

NORPAC Station 32; HORIZON; August 19, 1955; 1134 GCT; 40°27'N, 137°20'W; sounding, 2250 fm; wind 225°, force 2; weather, partly cloudy; sea, moderate; wire angle, 07°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	18.91	33.41	5.73	0	18.91	33.41	5.73	23.85	405.9	0.000		
10	18.58	33.42	5.82	10	18.58	33.42	5.82	23.95	397.1	0.040		
25	15.37	33.35	6.62	20	17.47	33.39	6.18	24.19	373.7	0.079		
49	12.27	33.33	6.63	30	14.00	33.33	6.63	24.92	304.2	0.113		
64	11.56	33.36	6.39	50	12.20	33.33	6.63	25.28	270.4	0.170		
79	11.57	33.47	6.32	75	11.55	33.44	6.35	25.48	251.1	0.235		
98	10.78	33.35	6.44	100	10.70	33.35	6.41	25.56	243.0	0.297		
123	9.85	33.34	5.98	150	9.24	33.56	5.70	25.97	204.5	0.410		
150	9.24	33.56	5.70	200	8.72	33.82	5.70	26.26	176.6	0.505	0.509	
198	8.76	33.81	5.71	250	8.23	33.95	5.04	26.44	160.2	0.590		
260	8.11	33.97	4.86	300	7.43	33.96	4.41	26.56	147.9	0.667		
350	6.36	33.95	3.77	400	5.54	33.95	2.87	26.80	125.5	0.803		
464	5.06	33.95	2.19	500	4.98	33.96	2.02	26.88	118.4	0.925	0.942	
619	4.28	34.13	0.98	600	4.40	34.07	1.12	27.03	104.0	1.037		
834	3.83	34.30	0.43	700	3.98	34.26	0.55	27.22	85.6	1.131		
1080	3.28	34.42	0.34	800	3.81	34.30	0.42	27.26	81.7	1.215		
1381	2.74	34.53	0.60	1000	3.47	34.38	0.33	27.36	72.1	1.369	1.416	
				1200	3.08	34.47	0.46	27.48	61.3	1.502		

NORPAC
Station
32

NORPAC Station 33; HORIZON; August 6, 1955; 1848 GCT; 41°45'N, 124°29'W; sounding, 130 fm; wind 360°, force 2; weather, fog; sea, rough; wire angle, 12°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	9.6	33.84	4.67	0	9.6	33.84	4.67	26.13	188.8	0.000
10	8.80	33.88	3.92	10	8.80	33.88	3.92	26.30	173.4	0.018
15	8.44	33.89	3.48	20	8.39	33.89	3.56	26.36	166.9	0.035
20	8.39	33.89	3.56	30	8.16	33.87	3.48	26.38	165.3	0.058
25	8.34	33.89	3.39	50	7.84	33.89	3.00	26.45	159.0	0.084
30	8.16	33.87	3.48	75	7.50	33.99	2.45	26.58	146.9	0.122
35	8.06	33.89	3.56	100	7.23	34.00	2.42	26.62	142.7	0.158
44	7.88	33.90	3.18	150	6.91	34.01	1.95	26.68	137.2	0.228
54	7.84	33.89	3.04	200	6.80	34.05	1.70	26.72	133.1	0.296
63	7.78	33.91	2.87							
73	7.53	33.99	2.44							
93	7.32	33.99	2.51							
109	7.15	34.01	2.34							
138	6.96	34.00	2.11							
169	6.83	34.04	1.86							
202	6.78	34.05	1.68							0.298

NORPAC
Station
33

NORPAC Station 34; HORIZON; August 7, 1955; 0020 GMT; 41°31'N, 125°05'W; sounding, 1300 fm; wind 330°, force 3; weather, overcast; sea, very rough; wire angle, 08°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD	
0	12.38	32.56	6.42	0	12.38	32.56	6.42	24.64	330.5	0.000		
10	11.78	32.58	6.53	10	11.78	32.58	6.53	24.78	317.8	0.032		
24	10.03	32.72	6.58	20	10.60	32.68	6.58	25.07	290.3	0.063		
53	8.72	32.86	6.31	30	9.66	32.74	6.54	25.27	271.2	0.091		
67	8.06	-	5.67	50	8.86	32.83	6.37	25.47	252.0	0.143		
82	8.70	33.40	5.21	75	8.48	33.27	5.39	25.87	214.1	0.202		
106	8.51	33.41	5.10	100	8.55	33.40	5.11	25.96	205.0	0.254		
130	8.35	33.68	4.65	150	7.72	33.78	4.10	26.38	165.9	0.347		
158	7.70	33.80	3.72	200	7.20	33.92	2.93	26.56	148.0	0.425	0.428	
210	7.12	33.96	2.83	250	6.70	34.03	2.15	26.72	133.3	0.496		
276	6.46	34.07	1.82	300	6.23	34.10	1.60	26.84	121.4	0.559		
498	5.27	34.23	0.75	400	5.68	34.18	1.08	26.99	107.5	0.674		
664	4.66	34.33	0.35	500	5.25	34.23	0.73	27.06	101.2	0.778	0.791	
888	4.07	34.41	0.33	600	4.81	34.30	0.38	27.17	91.0	0.874		
1142	-	34.50	0.69	700	4.49	34.35	0.34	27.24	83.5	0.962		
1448	2.75	34.56	0.87	800	4.20	34.39	0.35	27.31	77.5	1.042		
				1000	3.91	34.44	0.36	27.38	71.0	1.191	1.229	
				1200	3.45	34.49	0.51	27.46	63.5	1.325		

NORPAC
Station
34

NORPAC Station 35; HORIZON; August 7, 1955; 1038, 1222 GCT; 40°37'N, 127°03'W; sounding, 1550 fm; wind 360°, force 4; weather, overcast; sea, rough; wire angle, 15°, 06°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'
0	11.72	32.94	6.45	0	11.72	32.94	6.45	25.06	290.1	0.000
9	11.66	32.92	6.53	10	11.64	32.92	6.54	25.06	290.6	0.029
23	11.43	32.94	6.30	20	11.51	32.93	6.31	25.10	287.3	0.058
51	9.18	33.27	5.43	30	11.33	33.00	6.24	25.18	279.4	0.086
60	9.08	33.27	5.38	50	9.18	33.27	5.44	25.76	224.8	0.137
69	8.91	33.37	5.10	75	8.69	33.41	4.81	25.95	206.7	0.191
81	8.68	33.43	4.85	100	8.24	33.69	3.95	26.23	179.8	0.239
99	8.24	33.69	3.98	150	7.53	33.87	2.87	26.48	156.1	0.322
123	7.80	33.79	3.24	200	7.07	33.98	2.37	26.63	142.0	0.397
150	7.53	33.87	2.87	250	6.69	34.01	2.00	26.70	134.8	0.466
200	7.07	33.98	2.37	300	6.38	34.03	1.73	26.76	129.0	0.532
274	6.56	34.02	1.86	400	5.60	34.10	1.11	26.92	114.2	0.653
372	5.78	34.07	1.27	500	5.02	34.19	0.63	27.05	101.9	0.762
510	4.98	34.20	0.56	600	4.62	34.28	0.40	27.17	90.2	0.858
695	4.40	34.32u	0.34u	700	4.40	34.33	0.34	27.24	84.2	0.945
				800	4.10	34.37	0.33	27.30	78.1	1.026
0	11.54u	32.90u	6.65u	1000	3.54	34.49	0.40	27.44	64.5	1.169
10	11.38u	32.86u	6.60u	1200	3.11	34.52	0.54	27.51	58.0	1.291
491	5.13	34.18	0.76	1500	2.51	34.56	0.99	27.60	50.0	1.453
663	4.48	34.34u	0.34u	2000	1.92	34.65	1.65	27.72	38.1	1.673
828	4.04	34.38	0.30							
1022	3.44	34.49	0.41							
1215	3.06	34.52	0.55							
1483	2.59	34.56	0.91							
1753	2.14	34.60	1.32							
2048	1.86	34.67	1.80							
2446	1.75	34.69	2.10							

NORPAC
Station
35

0.399

0.774

1.206

NORPAC Station 36; HORIZON; August 7, 1955; 2241 GCT; 40°00'N, 128°39'W; sounding, 2510 fm; wind 000°, force 4; weather, overcast; sea, moderate; wire angle, 22°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	14.67	32.56	6.24	0	14.67	32.56	6.24	24.18	374.8	0.000	
9	14.56	32.52	6.11	10	14.53	32.52	6.10	24.18	374.8	0.037	
23	14.32	32.49	6.07	20	14.33	32.49	6.06	24.20	372.5	0.075	
51	11.63	32.58	6.71	30	14.33	32.52	6.06	24.23	369.9	0.112	
65	9.81	32.69	6.48	50	11.73	32.58	6.70	24.78	317.8	0.181	
80	9.16	32.86	6.10	75	9.35	32.80	6.23	25.37	261.3	0.253	
103	8.76	33.03	5.66	100	8.80	33.01	5.75	25.62	237.9	0.315	
126	8.52	33.39	4.88	150	8.30	33.67	4.34	26.20	182.2	0.420	
155	8.24	33.68	4.26	200	7.50	33.92	3.31	26.52	152.0	0.503	0.507
205	7.41	33.96	3.21	250	7.00	34.05	2.01	26.70	135.5	0.575	
268	6.86	34.06	1.87	300	6.59	34.06	1.71	26.76	129.5	0.641	
362	5.98	34.05	1.41	400	5.64	34.06	1.25	26.88	118.1	0.765	
482	5.14	34.13	0.91	500	5.02	34.17	0.81	27.04	103.1	0.876	0.892
644	4.56	34.29	0.43	600	4.64	34.27	0.51	27.16	91.9	0.974	
860	3.89	34.39	0.36	700	4.34	34.33	0.39	27.25	83.4	1.061	
1109	3.16	34.49	0.53	800	3.99	34.38	0.36	27.32	76.7	1.141	
1431	2.66	34.53	0.82	1000	3.40	34.46	0.45	27.43	65.5	1.284	1.327
				1200	3.00	34.51	0.63	27.52	57.1	1.406	

NORPAC
Station
36

NORPAC Station 37; HORIZON; August 8, 1955; 0547, 0656 GCT; 39°27'N, 129°55'W; sounding, 2510 fm; wind 360°, force 5; weather, overcast; sea, very rough; wire angle 25°, 18°.

Z	OBSERVED			INTERPOLATED				COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.26	32.88	6.03	0	16.26	32.88	6.03	24.08	384.3	0.000
9	16.22	32.89	5.84	10	16.25	32.89	5.81	24.10	382.5	0.038
23	16.28	32.94	5.68	20	16.30	32.93	5.71	24.11	381.2	0.076
49	13.65	33.01	6.35	30	16.28	32.95	5.65	24.13	379.8	0.115
58	11.80	32.90	6.50	50	13.40	33.00	6.38	24.79	316.8	0.184
67	10.60	32.84	6.41	75	10.44	32.92	6.43	25.27	270.6	0.258
79	10.36	32.92	6.44	100	9.95	32.88	5.88	25.34	264.7	0.325
95	10.06	32.88	5.84	150	8.81	33.39	5.16	25.91	210.2	0.446
116	9.60	32.91	6.14	200	8.03	33.78	4.32	26.34	169.7	0.541
139	9.06	33.21	5.41	250	7.25	33.97	3.47	26.60	145.0	0.620
182	8.26	33.68	4.62	300	6.55	34.00	2.96	26.71	133.8	0.690
245	7.34	33.96	3.55	400	5.67	34.02	2.00	26.84	121.4	0.817
334	6.18	34.01	2.68	500	5.04	34.07	1.11	26.95	111.1	0.934
456	5.22	34.05	1.40	600	4.75	34.17	0.72	27.07	100.0	1.039
630	4.50	34.23	0.57	700	4.21	34.27		27.21	86.8	1.132
0	16.26	32.98u		800	4.01	34.31		27.26	82.1	1.217
9	16.25u	32.88u		1000	3.42	34.45		27.43	65.9	1.365
455	5.22	34.04		1200	3.04	34.53		27.53	56.2	1.487
627	4.50	34.20		1500	2.50	34.59		27.62	47.7	1.643
796	4.04	34.31		2000	1.85	34.67		27.74	36.9	1.854
983	3.52	34.44								
1170	3.09	34.52								
1431	2.64	34.58								
1693	2.25	34.61								
1982	1.95	34.66								
2376	1.77	34.68								

NORPAC
Station
37

NORPAC Station 38; BLACK DOUGLAS; August 11, 1955; 1845 GCT; 38°34'N, 132°39'W; sounding, 2650 fm; wind 355°, force 3, weather, overcast; sea, moderate; wire angle, 03°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	17.61	33.30	5.46	0	17.61	33.30	5.46	24.09	383.6	0.000	
10	17.52	33.28	5.46	10	17.52	33.28	5.46	24.10	382.4	0.038	
24	17.16	33.25	5.44	20	17.30	33.26	5.44	24.13	379.5	0.076	
47	13.82	33.21	6.22	30	15.40	33.23	5.87	24.54	340.5	0.112	
62	12.51	33.29	6.41	50	13.58	33.22	6.29	24.92	304.0	0.177	
76	12.15	33.18	6.19	75	12.15	33.18	6.20	25.17	280.3	0.250	
95	12.08	33.27	6.09	100	12.01	33.26	6.02	25.26	272.1	0.319	
118	11.61	33.18	5.91	150	10.66	33.12	6.16	25.40	258.5	0.452	0.573
147	10.74	33.12	6.16	200	9.18	33.48	4.33	25.91	208.5	0.569	
193	9.30	33.43	4.49	250	8.40	33.82	3.15	26.31	172.1	0.664	
253	8.34	33.85	3.02	300	7.80	34.07	2.48	26.59	145.0	0.744	
341	7.36	34.13	2.13	400	6.72	34.11	1.69	26.78	127.3	0.880	
453	6.14	34.10	1.34	500	5.72	34.11	1.12	26.91	115.2	1.001	1.020
602	4.86	34.16	0.69	600	4.90	34.16	0.67	27.05	102.2	1.110	
812	4.16	34.37	0.32	700	4.52	34.28	0.45	27.18	89.1	1.205	
1050	3.48	34.45	0.44	800	4.18	34.36	0.35	27.29	79.6	1.290	
1339	2.92	34.51	0.82	1000	3.60	34.43	0.41	27.40	68.9	1.438	1.488
				1200	3.19	34.47	0.64	27.47	61.9	1.569	

NORPAC
Station
38

NORPAC Station 39; BLACK DOUGLIAS; August 13, 1955; 1044, 2030 GCT; 38°34'N, 136°07'W; sounding, 2780 fm; wind 344°, force 2; weather, overcast; sea, moderate; wire angle, 02° 00'.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	18.82	33.45	5.49	0	18.82	33.45	5.49	23.90	401.1	0.000
9	18.81	33.43	5.60	10	18.80	33.43	5.62	23.90	401.9	0.040
24	18.09	33.44	5.75	20	18.50	33.43	5.68	23.97	394.5	0.080
47	14.04	33.40	6.83	30	17.10	33.43	6.08	24.31	362.2	0.118
57	13.06	33.37	6.55	50	13.69	33.39	6.78	25.03	293.8	0.183
66	12.54	33.39	6.45	75	12.20	33.35	6.53	25.30	268.0	0.259
76	12.12	33.35	6.55	100	11.61	33.36	6.30	25.41	257.9	0.329
95	11.76	33.35	6.37	150	10.63	33.49	5.94	25.69	230.7	0.451
118	11.10	33.38	6.08	200	8.82	33.70	5.30	26.15	187.5	0.556
145	10.76	33.49	5.98	250	8.41	33.88	4.59	26.36	167.9	0.644
192	8.98	33.59	5.39	300	7.52	33.90	3.73	26.51	153.7	0.724
258	8.34	33.89	4.39	400	5.92	33.93	2.88	26.74	130.6	0.866
356	6.45	33.91	3.18	500	5.11	34.01	2.38	26.90	116.0	0.989
479	5.07u	33.94u	2.09u	600	4.50	34.10	1.80	27.05	102.1	1.098
655	4.28	34.15	0.88	700	4.20	34.17	1.22	27.13	94.4	1.196
				800	4.03	34.22	0.95	27.19	89.0	1.288
0	18.89u	33.45u	5.55u	1000	3.59	34.36	0.58	27.34	74.3	1.452
464	5.44u	34.04u	0.33r	1200	3.00	34.47	0.53	27.49	60.2	1.586
633	4.33	34.13	2.01u	1500	2.44	34.58	0.99	27.62	47.5	1.759
892	3.91	34.26	1.09	2000	1.95	34.62	1.70	27.70	40.3	1.979
1027	3.46	34.38	0.55	2500	1.75	34.65	2.10	27.74	36.7	2.171
1263	2.88	34.49	0.54	3000	1.58	34.69	2.51	27.78	33.3	2.346
1592	2.31	34.61	1.13	4000	1.50	34.73	3.13	27.82	29.6	2.661
1969	1.96	34.63u	1.53							
2344	1.82	34.62u	1.90							
2813	1.66	34.68	2.35							
3283	1.54	34.69	2.74							
3753	1.50	34.76u	3.09							
4225	1.51	34.74	3.16							
4414	1.51	34.74	3.24							

NORPAC
Station
39

NORPAC Station 40; BLACK DOUGLAS; August, 14, 15, 1955; 2335, 0019 GCT; 38°34'N, 139°35'W; sounding, 1328 fm; wind 322°, force 2; weather, partly cloudy; sea, moderate; wire angle, 10°, 05°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
1	19.96	33.55	6.09	0	(20.00)	(33.55)	(6.09)	23.69	421.5	0.000
10	19.57	33.49	5.84	10	19.57	33.49	5.84	23.76	415.5	0.042
24	16.48	33.47	6.77	20	19.09	33.49	5.92	23.86	405.0	0.083
47	13.32	33.42	7.05	30	15.31	33.46	6.98	24.74	321.7	0.119
62	12.88	33.46	6.84	50	13.20	33.43	7.03	25.15	281.9	0.180
76	12.77	33.40	6.52	75	12.79	33.40	6.54	25.23	275.0	0.249
95	12.46u	33.40u	5.79	100	12.54	33.41	(5.78)	25.28	270.0	0.317
				150	11.20	33.39	-	25.51	248.8	0.448
95	12.68u	33.44u	a	200	9.95	33.49	-	25.80	220.3	0.565
118	12.36	33.44		250	9.22	33.89	-	26.23	179.5	0.665
145	11.36	33.38		300	8.28	33.95	-	26.43	160.9	0.750
192	10.09	33.45		400	6.42	33.95	-	26.69	135.9	0.898
251	9.20	33.89		500	5.18	33.99	-	26.88	118.2	1.025
339	7.50	33.96		600	4.48	34.08	-	27.03	103.8	1.136
450	5.70	33.95		700	3.95	34.18	-	27.15	92.4	1.235
598	4.48	34.08		800	3.82	34.27	-	27.24	83.8	1.323
807	3.81	34.27		1000	3.40	34.37	-	27.37	71.8	1.477
1044	3.24	34.38		1200	3.02	34.45	-	27.47	62.2	1.611
1331	2.78	34.49								

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a - One oxygen sample was missing on second cast when titration was carried out, and the values are listed here in order of increasing depth. For each oxygen value there is a possibility of two different depths, 5.94, 5.79, 5.49, 5.36, 4.28, 3.39, 2.07, 1.39, 1.69, 1.70.

NORPAC Station 41; BLACK DOUGLAS: August 15, 16; 2235, 0155 GCT; 38°39'N, 142°59'W; sounding, 3000 fm; wind 310°, force 4; weather, rain showers; sea, moderate; wire angle, 25, 27°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	20.6	33.70	4.86	0	20.6	33.70	4.86	23.63	426.9	0.000	
8	20.52	33.66	4.80	10	20.50	33.66	4.80	23.62	427.3	0.043	
21	19.75	33.68	4.95	20	19.91	33.68	4.91	23.79	411.1	0.085	
47	14.76	33.57	5.77	30	18.23	33.65	5.21	24.20	372.1	0.124	
56	13.55	33.50	5.87	50	14.33	33.54	5.81	25.02	294.7	0.190	
64	12.95	33.53	5.66	75	12.64	33.49	5.64	25.31	267.4	0.261	
76	12.63	33.49	5.64	100	12.00	33.54	5.31	25.48	251.6	0.326	
91	12.24	33.53	5.34	150	10.90	33.60	5.14	25.73	227.2	0.446	
110	11.78	33.54	5.30	200	9.99	33.85	4.82	26.08	193.9	0.551	0.555
134	11.31	33.57	5.25	250	9.58	33.99	4.62	26.26	177.2	0.644	
175	10.13	33.64	4.89	300	8.72	34.00	3.92	26.40	163.3	0.729	
235	9.76	33.98	4.73	400	7.00	33.96	3.22	26.63	142.0	0.882	
320	8.35	34.00	3.70	500	5.80	33.98	2.40	26.80	126.0	1.016	1.036
437	6.42	33.95u	3.19u	600	4.80	34.05	1.41	26.97	109.9	1.134	
608	4.70	34.04u	1.55u	700	4.20	34.13	0.88	27.10	97.4	1.237	
				800	3.88	34.20	0.60	27.19	88.7	1.330	
0	21.00u	33.62u	4.85u	1000	3.39	34.38	0.36	27.38	70.9	1.490	1.543
7	20.69u	33.68u	4.77u	1200	3.00	34.46	0.38	27.48	61.7	1.623	
421	6.66	33.97u	2.93u	1500	2.52	34.55	0.65	27.59	50.8	1.791	
570	5.04	34.05u	1.42u	2000	1.99	34.61	1.45	27.69	41.8	2.022	
711	4.17	34.14	0.76								
877	3.65	34.29	0.48								
1045	3.28	34.40	0.35								
1279	2.83	34.48	0.38								
1515	2.52	34.56	0.66								
1778	2.20	34.60	1.06								
2139	1.91	34.61	1.51								

NORPAC
Station
41

NORPAC Station 42; HORIZON; August 22, 1955; 1135 GCT; 38°37'N, 146°29'W; sounding, 2900 fm; wind 180°, force 4; weather, rain; sea, moderate; wire angle, 19°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔΔ
0	21.68	34.00	4.82	0	21.68	34.00	4.82	23.57	433.2	0.000		
10	21.68	34.02	5.33	10	21.68	34.02	5.33	23.59	431.2	0.043		
23	19.86	33.96	5.59	20	21.62	34.02	5.36	23.59	430.8	0.086		
51	14.46	33.96	6.56	30	17.50	33.96	6.09	24.62	332.9	0.124		
65	13.43	33.94	6.48	50	14.55	33.96	6.55	25.29	269.4	0.185		
79	12.94	33.93	6.46	75	13.07	33.94	6.47	25.57	242.2	0.249		
101	11.69	33.84	6.14	100	11.72	33.84	6.14	25.76	224.1	0.307		
124	11.54	33.89	5.82	150	10.58	33.89	5.75	26.00	201.2	0.414		
151	10.56	33.89	5.74	200	10.12	34.11	5.24	26.25	177.5	0.509	0.513	
201	10.12	34.11	5.24	250	9.44	34.12	5.20	26.38	165.8	0.595		
264	9.18	34.11	5.21	300	8.41	34.08	4.82	26.51	153.3	0.675		
359	7.74	34.04	4.43	400	7.28	34.01	4.22	26.63	142.1	0.823		
479	5.85	33.99	3.27	500	5.59	33.99	2.94	26.84	122.2	0.955	0.973	
641	4.50	34.08	1.64	600	4.67	34.05	1.89	26.99	108.0	1.070		
858	3.61	34.27	0.60	700	4.19	34.13	1.10	27.10	97.2	1.172		
1106	2.98	34.42	0.05u	800	3.76	34.23	0.61	27.22	85.9	1.264		
1411	2.58	34.47	0.64	1000	3.18	34.38	0.61	27.40	68.8	1.419	1.468	
				1200	2.77	34.45	0.63	27.48	60.8	1.548		

NORPAC
Station
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NORPAC Station 44; BLACK DOUGLAS; August 7, 1955; 2351 GCT; 39°30'N, 124°30'W; sounding, 1160 fm; wind 345°, force 4; weather, overcast; sea, very rough; wire angle, 35°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	$\Delta D'$	ΔD
0	11.74	32.77		0	11.74	32.77		24.93	303.1	0.000	
8	11.66	32.76		10	11.64	32.76		24.94	302.3	0.030	
21	11.42	32.76		20	11.44	32.76		24.98	299.0	0.060	
45	9.68	32.80		30	11.07	32.77		25.06	291.5	0.090	
57	8.80	32.79		50	9.29	32.79		25.37	261.5	0.145	
70	8.45	32.83		75	8.37	32.87		25.58	242.0	0.208	
87	8.26	33.02		100	8.40	33.24		25.86	215.1	0.265	
108	8.52	33.43		150	8.12	33.75		26.30	173.5	0.361	0.445
131	8.36	33.61		200	7.31	33.92		26.55	149.6	0.442	
170	7.84	33.85		250	6.64	33.99		26.69	135.9	0.514	
221	6.96	33.96		300	6.27	34.02		26.76	129.0	0.580	
296	6.33	34.02		400	5.52	34.08		26.91	115.3	0.702	
391	5.56	34.07		500	5.20	34.21		27.05	101.9	0.811	0.825
517	5.17	34.23		600	4.87	34.29		27.15	92.6	0.908	
706	4.57	34.33		700	4.58	34.33		27.21	86.4	0.998	
918	3.92	34.42		800	4.26	34.37		27.28	79.9	1.081	
1198	3.14	34.50		1000	3.67	34.45		27.40	68.9	1.229	1.269
				1200	(3.12)	(34.50)		(27.49)	(59.5)	(1.358)	

NORPAC
Station
44

NORPAC Station 45, BLACK DOUGLAS; August 8, 1955; 1509. 1951 GCT; 39°00'N, 125°36'W; sounding, 2200 fm; wind 278°, force 6; weather, overcast; sea, very rough; wire angle, 10°, 26°.

Z	OBSERVED		INTERPOLATED				COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
1	14.06	32.65	5.90	0	(14.07)	(32.65)	(5.90)	24.39	354.9	0.000	
10	14.08	32.56	4.28r	10	14.08	32.56	6.02	24.31	362.2	0.036	
29	14.05	32.55	6.24	20	14.07	32.55	6.13	24.31	362.3	0.072	
54	13.24	32.79	6.43	30	14.07	32.55	6.31	24.31	362.3	0.108	
66	12.10	33.03	6.52	50	13.80	32.77	6.39	24.53	341.3	0.178	
77	11.87	33.09	6.65	75	11.94	33.09	6.62	25.12	283.2	0.257	
90	10.74	32.93	6.40	100	10.45	33.02	6.08	25.36	262.9	0.325	
113	10.15	33.20	5.74	150	8.95	33.64	4.47	26.09	193.5	0.438	
144	9.09	33.58	4.76	200	8.32	33.91	2.57	26.40	163.8	0.527	0.531
167	8.63	33.73	3.65	250	7.62	34.01	2.28	26.57	147.2	0.605	
218	8.10	33.98	2.34	300	6.83	34.02	2.05	26.70	135.5	0.676	
294	6.92	34.02	2.11	400	5.90	34.10	1.15	26.87	118.4	0.802	
400	5.90	34.10	1.15	500	5.35	34.13	0.79	26.97	109.3	0.916	0.933
542	5.08	34.15	0.64	600	4.90	34.21	0.43	27.08	99.0	1.020	
738	4.41u	34.34u	0.22	700	4.60	34.32	0.28	27.20	87.5	1.114	
				800	4.37	34.38	0.26	27.28	79.9	1.198	
0	14.19u	32.57u	5.95u	1000	3.79	34.48	0.39	27.42	66.9	1.344	1.390
453	6.14u	34.14u	0.96u	1200	3.30	34.56	0.61	27.53	56.7	1.468	
012	5.06u	34.25u	0.48u	1500	2.72	34.59	0.86	27.60	49.5	1.627	
765	4.45	34.36	0.32u	2000	(2.00)	(34.63)	(1.67)	(27.70)	(40.0)	(1.851)	
986	3.81	34.47	0.37								
1209	3.22	34.56	0.63								
1527	2.68	34.59	0.88								
1902	2.12	34.63	1.50								

NORPAC
Station
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NORPAC Station 46; BLACK DOUGLAS; August 9, 1955; 0825 GCT; 38°20'N, 127°05'W; sounding, 2390 fm; wind 320°, force 6; weather, cloudy; sea, very rough; wire angle 18°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	14.13	32.76	5.92	0	14.13	32.76	5.92	24.45	348.7	.000
9	14.11	32.70	5.77	10	14.12	32.70	5.80	24.42	352.0	.035
23	14.08	32.72	5.98	20	14.09	32.72	5.89	24.44	350.3	.070
50	12.94	32.79	6.57	30	13.95	32.73	6.09	24.47	347.0	.105
63	11.46	32.84	6.26	50	12.94	32.79	6.57	24.72	323.4	.172
77	10.96	32.86	5.99	75	11.00	32.86	6.02	25.13	283.9	.248
99	10.56	33.01	5.88	100	10.54	33.01	5.87	25.33	265.0	.317
122	9.48	33.03	5.64	150	8.88	33.44	4.80	25.94	206.7	.436
149	8.88	33.44	4.81	200	8.04	33.83	3.34	26.37	166.3	.530
197	8.06	33.82	3.43	250	7.22	33.97	2.55	26.60	144.3	.607
258	7.10	33.99	2.49	300	6.61	34.01	2.31	26.72	133.7	.677
349	6.13	34.04	2.07	400	5.85	34.08	1.52	26.87	118.7	.803
461	5.57	34.13	1.05	500	5.30	34.15	0.83	27.00	107.2	.916
614	4.60	34.22	0.47	600	4.65	34.21	0.47	27.11	95.9	1.017
817	3.93	34.35	0.32	700	4.34	34.27	0.32	27.20	87.8	1.109
1049	3.46	34.50	0.48	800	3.98	34.34	0.35	27.29	79.3	1.193
1334	2.88	34.59	0.79	1000	3.60	34.47	0.44	27.43	65.8	1.338
				1200	3.18	34.56	0.61	27.54	55.6	1.459

NORPAC
Station
46

NORPAC Station 47, BLACK DOUGLAS; August 10, 1955; 0330, 0552 GCT; 37°20'N, 129°16.5'W; sounding, 2740 fm; wind 353°, force 4; weather, cloudy; sea, rough; wire angle, 16°, 26°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.33	33.07	4.91r	0	16.33	33.07	(5.92)	24.22	372.0	0.000
8	16.32	33.03	5.92	10	16.35	33.03	5.91	24.18	374.5	0.037
23	16.33	33.04	5.86	20	16.36	33.04	5.88	24.19	374.0	0.075
51	13.00	33.01	6.43	30	16.33	33.04	5.88	24.19	373.6	0.112
61	12.60	33.00	6.20	50	13.20	33.01	6.41	24.84	312.0	0.181
70	12.42	33.02	6.10	75	12.30	33.03	6.03	25.02	294.3	0.256
84	12.00	33.04	5.93	100	11.02	33.22	6.04	25.41	257.9	0.326
102	10.92	33.22	6.03	150	9.21	33.56	3.70	25.98	203.3	0.443
126	9.88	33.22	5.22	200	8.76	33.94	1.91	26.35	168.2	0.536
156	9.08	33.67	3.37	250	8.39	34.08	1.42	26.52	152.4	0.616
207	8.69	33.97	1.87	300	7.95	34.12	1.33	26.62	143.3	0.690
281	8.15	34.11	1.36	400	6.89	34.13	1.33	26.78	128.0	0.826
385	6.93u	34.13u	1.33	500	6.15	34.21	0.71	26.93	113.1	0.946
522	6.00	34.22	0.65	600	5.40	34.26	0.51	27.07	100.3	1.053
707	4.75u	34.33u	1.37r	700	4.89	34.30	0.42	27.16	91.4	1.149
0	16.34u	33.12u	5.84u	800	4.52	34.35	0.33	27.24	84.0	1.237
8	16.30u	33.04u	5.86u	1000	3.93	34.49	0.38	27.41	67.6	1.388
432	6.64u	34.14u	2.82	1200	3.42	34.53	0.58	27.49	60.0	1.516
584	5.49	34.25	0.53	1500	2.76	34.58	0.95	27.60	50.1	1.681
730	4.83u	34.29u	0.44	2000	2.10	34.62	1.50	27.68	42.1	1.912
901	4.19	34.42	0.31							
1075	3.70	34.52	0.46							
1330	3.14	34.54	0.77							
1561	2.64	34.59	1.02							
1836	2.26	34.61	1.36							
2210	1.50	34.66	1.80							

NORPAC
Station
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NORPAC Station 48; BLACK DOUGLAS; August 10, 1955; 2155, 2255 GCT; 39°42'N, 131°22'W; sounding, 2800 fm; wind 358°, force 4; weather, overcast; sea, rough; wire angle, 02°, 05°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	17.19	33.15	5.68	0	17.19	33.15	5.68	24.07	385.0	0.000	
9	17.06	33.07	5.94	10	17.08	33.07	5.95	24.05	387.3	0.039	
24	16.88	33.12	6.02	20	16.94	33.10	6.00	24.10	382.4	0.077	
52	12.55	33.05	6.26	30	16.67	33.13	6.08	24.18	375.5	0.115	
66	12.21	33.12	6.28	50	12.62	33.05	6.25	24.98	298.8	0.182	
80	11.65	33.05	6.26	75	11.84	33.07	6.28	25.14	283.1	0.255	
103	11.74	33.30	5.71	100	11.75	33.29	6.27	25.33	265.2	0.324	
127	10.34	33.30	5.44	150	9.20	33.40	5.43	25.86	215.0	0.444	
156	9.02	33.49u	5.41	200	8.80	33.78	4.38	26.22	180.9	0.543	0.547
208	8.70	33.91	4.34	250	8.00	33.99	4.05	26.51	153.4	0.627	
273	7.49u	34.03u	3.86	300	7.10	34.00	3.52	26.64	140.9	0.700	
372	6.00	33.96	2.84	400	5.68	33.98	2.48	26.81	124.6	0.833	
				500	4.99	34.12	1.83	27.01	105.9	0.948	0.966
61	12.62u	33.17u	7.02u	600	4.69	34.22	0.43	27.12	95.8	1.049	
159	9.01	33.42u	4.71	700	4.40	34.31	0.47	27.22	85.8	1.140	
281	7.42u	33.98u	3.77	800	4.10	34.39	0.48	27.32	76.7	1.221	
446	5.21	34.05	1.98	1000	3.61	34.47	0.50	27.43	66.0	1.364	1.410
666	4.51	34.27	0.39	1200	3.15	34.51	0.74	27.50	58.9	1.488	
915	3.82	34.45	0.41								
1214	3.10	34.51	0.74								

NORPAC
Station
48

NORPAC Station 49; BLACK DOUGLAS; August 12, 1955; 1404 GCT; 36°53'N, 134°46'W; sounding, 2310 fm; wind 345°, force 4; weather, rain showers; sea, rough; wire angle, 20°.

OBSERVED				INTERPOLATED				COMPUTED				
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	19.45	33.77	5.41	0	19.45	33.77	5.41	23.99	393.2	0.000		
9	19.44	33.77	5.57	10	19.47	33.77	5.57	24.00	392.1	0.039		
22	19.16	33.87	5.53	20	19.27	33.85	5.55	24.10	382.5	0.078		
49	15.15	33.76	6.07	30	18.00	33.84	5.69	24.41	353.3	0.115		
62	14.68	33.79	6.12	50	15.10	33.76	6.08	25.01	295.7	0.180		
76	14.15	33.82	6.05	75	14.18	33.82	6.07	25.26	272.0	0.251		
98	13.45	33.78	5.93	100	13.37	33.77	5.93	25.39	259.8	0.317		
119	12.34	33.66	5.74	150	10.77	33.63	5.46	25.78	222.6	0.438		
146	10.82	33.63	5.46	200	10.00	33.88	5.33	26.10	191.9	0.542	0.546	
194	10.08	33.85	5.36	250	9.27	34.05	4.98	26.35	168.0	0.632		
256	9.16	34.05	4.91	300	8.10	34.01	4.54	26.51	153.7	0.712		
350	7.00	33.97	4.08	400	6.28	33.98	3.54	26.73	132.2	0.855		
465	5.57	34.00	2.86	500	5.26	34.02	2.58	26.89	117.1	0.980	0.999	
621	4.44	34.13	1.87	600	4.59	34.11	1.99	27.04	102.5	1.090		
832	3.74	34.29	1.42	700	4.19	34.19	1.57	27.15	92.7	1.187		
1076	3.24	34.45	1.56	800	3.80	34.28	1.43	27.26	82.3	1.274		
1371	2.77	34.54	1.79	1000	3.39	34.42	1.53	27.41	67.8	1.424	1.474	
				1200	3.04	34.50	1.69	27.50	58.8	1.551		

NORPAC
Station
49

NORPAC Station 50; BLACK DOUGLAS; August 26, 1955; 0047 GCT; 37°47'N, 123°15'W; sounding, 50 fm; wind 315°, force 6; weather, clear; sea, very rough; wire angle 03°.

Z	OBSERVED			INTERPOLATED					COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	10.85	33.75	a	0	10.85	33.75		25.85	216.0	0.000	
9	10.81	33.77		10	10.82	33.77		25.87	214.0	0.022	
14	10.81	33.77		20	10.79	33.78		25.89	212.2	0.043	
19	10.79	33.78		30	10.73	33.76		25.88	213.0	0.064	
24	10.76	33.77		50	10.24	33.74		25.95	206.2	0.106	
28	10.72	33.76									
33	10.70	33.79									
38	10.65	33.74									
47	8.98	33.76									
57	9.89	33.75									

NORPAC
Station
50

a - One oxygen sample was missing when the titration was carried out, and the values are listed here in order of increasing depth. For each oxygen value there is a possibility of two different depths, 5.95, 5.83, 6.04, 5.66, 5.59, 5.50, 5.72, 5.16, 4.02.

NORPAC Station 51; BLACK DOUGLAS; August 25, 1955; 2217 GCT; 37°43'N, 123°23'W; sounding, 700 fm; wind 325°, force 6; weather, clear; sea, high; wire angle 17°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	12.09	33.70	5.67	0	12.09	33.70	5.67	25.58	241.1	0.000
8	12.04	33.70	5.62	10	12.05	33.70	5.60	25.60	239.9	0.024
27	11.94	33.71	5.52	20	11.97	33.71	5.56	25.61	238.2	0.048
36	11.90	33.71	5.59	30	11.92	33.71	5.53	25.63	237.2	0.072
45	11.06	33.68	4.91	50	10.49	33.66	4.63	25.84	216.5	0.117
54	10.03	33.65	4.34	75	9.22	33.77	3.82	26.14	188.2	0.168
63	9.60	33.75	3.69	100	8.70	33.86	2.59	26.30	173.1	0.213
73	9.25	33.76	3.83	150	8.01	34.00	2.10	26.51	152.9	0.295
91	8.96	33.86	2.65	200	7.80	34.09	1.80	26.61	143.6	0.369
113	8.32	33.87	2.51	250	7.44	34.13	1.63	26.69	135.9	0.439
141	8.07	33.96	2.27	300	7.23	34.18	1.30	26.76	129.1	0.505
187	7.88	34.07	1.81	400	6.68	34.17	0.86	26.83	122.5	0.631
250	7.44	34.13	1.63	500	5.98	34.14	0.76	26.91	115.7	0.749
346	7.04	34.19	0.96	600	5.50	34.23	0.64	27.03	104.2	0.859
465	6.18	34.14	0.80	700	5.04	34.30	0.56	27.14	93.6	0.958
608	5.48	34.23	0.68							
753	4.82	34.34	0.52							

NORPAC
Station
51

0.371

0.761

NORPAC Station 53, BLACK DOUGLAS; August 24, 1955; 1727 GCT; 36°49'N, 125°57'W; sounding, 2650 fm; wind 327°, force 6; weather, overcast; sea, very rough; wire angle, 25°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	14.95	32.94	5.58	0	14.95	32.94	5.58	24.42	351.7	0.000
8	14.95	32.85	5.58	10	14.94	32.85	5.40	24.35	358.8	0.036
22	14.93	32.84	5.39	20	14.93	32.85	5.39	24.35	358.8	0.071
48	14.49	32.86	5.66	30	14.93	32.84	5.39	24.35	358.8	0.107
60	12.12	32.94	5.92	50	13.84	32.89	5.80	24.62	333.3	0.176
73	11.39	32.97	5.89	75	11.31	32.97	5.88	25.16	281.0	0.253
94	10.68	33.00	5.82	100	10.50	33.01	5.77	25.34	264.3	0.321
116	10.08	33.03	5.52	150	9.48	33.38	5.47	25.80	220.4	0.444
142	9.61	33.30	5.55	200	8.60	33.78	3.05	26.25	178.0	0.543
190	8.74	33.72	3.37	250	8.10	34.00	2.36	26.49	154.8	0.626
250	8.10	34.00	2.36	300	7.47	34.06	1.98	26.64	141.0	0.700
341	6.98	34.10	1.72	400	6.42	34.16	1.38	26.86	120.3	0.831
452	6.04	34.20	1.01	500	5.80	34.23	0.73	27.00	107.1	0.945
607	5.22	34.30	0.36	600	5.27	34.30	0.37	27.11	96.1	1.046
826	4.35	34.43	0.38	700	4.85	34.36	0.36	27.20	87.2	1.138
1071	3.70	34.47	0.45	800	4.44	34.42	0.37	27.30	78.4	1.221
1369	3.00	34.54	0.74	1000	3.91	34.46	0.42	27.39	70.0	1.369
				1200	3.40	34.49	0.55	27.47	62.5	1.502

NORPAC
Station
53

0.547

0.963

1.416

NORPAC Station 54; BLACK DOUGLAS; August 23, 1955; 1736, 1944 GCT; 35°40'N, 127°49'W; sounding, 2650 fm; wind 348°; force 6; weather, partly cloudy; sea, very rough; wire rough; wire angle, 04°, 15°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	15.92	33.09	5.84	0	15.92	33.09	5.84	24.32	361.5	0.000	
9	15.90	33.06	6.05	10	15.90	33.06	6.00	24.30	362.8	0.036	
24	15.89	33.13	5.62	20	15.90	33.11	5.75	24.34	359.4	0.072	
52	15.14	33.05	5.63	30	15.80	33.13	5.63	24.37	356.1	0.108	
62	12.71	33.19	6.14	50	15.20	33.05	5.63	24.45	348.7	0.179	
71	11.98	33.21	5.92	75	11.71	33.22	5.84	25.28	269.8	0.256	
85	10.97	33.24	5.59	100	9.83	33.29	5.02	25.67	233.1	0.319	
103	9.60	33.30	4.95	150	8.80	33.76	3.72	26.20	182.2	0.422	
127	9.22	33.59	4.30	200	8.02	33.98	2.72	26.49	154.8	0.506	0.510
154	8.72	33.78	3.64	250	7.39	34.02	2.14	26.62	143.0	0.580	
205	7.98	33.99	2.65	300	6.83	34.05	1.83	26.71	133.9	0.650	
279	7.06	34.04	1.94	400	5.88	34.11	1.32	26.89	116.7	0.775	
384	5.99	34.09	1.45	500	4.90	34.17	0.88	27.06	101.7	0.884	0.900
516	4.73	34.17	0.88	600	4.54	34.25	0.40	27.15	92.1	0.981	
699	4.55	34.38	0.36	700	4.55	34.38	0.40	27.26	82.0	1.068	
				800	4.30	34.43	0.37	27.33	75.8	1.185	
0	15.95u	33.08u	5.62u	1000	3.78	34.49	0.60	27.43	65.8	1.326	1.371
8	15.92u	33.08u	5.37u	1200	3.30	34.54	0.75	27.51	58.0	1.450	
445	5.66	34.18	0.92	1500	2.65	34.60	1.20	27.62	48.3	1.610	
606	4.55	34.25	0.59	2000	2.03	34.63	1.60	27.70	40.5	1.832	
761	4.41	34.42	0.34								
942	3.87	34.47	0.52								
1125	3.44	34.52	0.69								
1378	2.84	34.57	0.92								
1633	2.51	34.61	1.26								
1912	2.11	34.63	1.50								
2287	1.80	34.64	1.97								

NORPAC
Station
54

NORPAC Station 55; BLACK DOUGLAS; August 22, 1955; 2010 GCT; 34°51'N, 130°09'W; sounding, 2700 fm; wind 352°, force 5; weather, overcast; sea, rough; wire angle, 16°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	17.18	33.14	5.51	0	17.18	33.14	5.51	24.07	385.0	0.000	
8	17.15	33.12	5.60	10	17.18	33.15	5.59	24.08	384.2	0.038	
23	17.50	33.50	5.41	20	17.46	33.44	5.44	24.23	370.0	0.076	
50	14.31	33.46	5.96	30	17.47	33.50	5.40	24.28	365.4	0.113	
63	13.51	33.49	6.01	50	14.31	33.46	5.96	24.96	301.0	0.180	
78	13.14	33.53	6.01	75	13.18	33.52	6.04	25.24	274.0	0.252	
104	13.17	33.59	5.87	100	13.18	33.59	5.90	25.29	269.2	0.320	
122	9.57r	33.43	5.50	150	10.12	33.42	5.12	25.72	228.2	0.447	0.555
150	10.12	33.42	5.12	200	9.27	33.79	4.70	26.15	187.6	0.551	
198	9.32	33.78	4.70	250	8.48	33.99	4.09	26.43	160.8	0.638	
259	8.25	33.99	4.03	300	7.46	33.98	3.69	26.58	147.0	0.715	
353	6.56	33.98	3.23	400	6.00	34.01	2.66	26.79	126.1	0.852	
468	5.35	34.08	1.76	500	5.20	34.10	1.47	26.97	110.0	0.970	0.988
624	4.91	34.17	0.80	600	4.99	34.15	0.79	27.02	104.4	1.077	
834	3.99	34.40	0.36	700	4.60	34.24	0.48	27.14	93.3	1.176	
1076	3.40	34.50	0.53	800	4.17	34.36	0.36	27.29	79.6	1.262	
1369	2.84	34.57	0.98	1000	3.59	34.48	0.47	27.44	65.5	1.407	1.456
				1200	3.17	34.54	0.68	27.53	56.4	1.528	

NORPAC
Station
55

NORPAC Station 56; BLACK DOUGLAS; August 20, 1955; 1859, 2111 GCT; 34°51'N, 133°27'W; sounding, 2850 fm; wind 356°, force 4; weather, cloudy; sea, moderate; wire angle, 12°, 20°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	σ ₂	D	T	S	σ ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	18.63	33.66	4.92	0	18.63	33.66	4.92	24.11	381.4	0.000	
8	18.60	33.64	4.89	10	18.59	33.64	4.84	24.11	381.8	0.038	
23	18.25	33.64	4.79	20	18.31	33.64	4.78	24.18	375.0	0.076	
49	15.86	33.65	5.39	30	18.12	33.64	4.79	24.22	270.5	0.113	
58	14.90	33.59	5.54	50	15.80	33.65	5.37	24.75	318.0	0.182	
67	14.54	33.61	5.45	75	14.48	33.69	5.40	25.10	287.5	0.258	
80	14.42	33.75	5.33	100	13.79	33.77	5.37	25.30	268.2	0.327	
98	13.83	33.77	5.38	150	11.62	33.54	5.07	25.55	244.2	0.457	
121	12.94	33.59	5.35	200	9.79	33.78	4.86	26.06	195.8	0.567	0.571
148	11.68	33.54	5.09	250	9.26	34.02	4.51	26.33	169.8	0.658	
198	9.81	33.77	4.90	300	8.50	34.04	4.08	26.47	156.9	0.735	
270	9.05	34.04	4.39	400	6.53	34.04	3.32	26.74	130.9	0.879	
369	6.96	34.04	3.44	500	5.32	34.02	2.57	26.89	117.2	1.003	1.022
500	5.32	34.02	2.57	600	4.79	34.12	1.91	27.03	104.1	1.114	
679	4.38	34.20	1.28u	700	4.34	34.21	1.42	27.15	92.8	1.212	
				800	4.12	34.27	1.29	27.22	86.0	1.301	
0	-	33.62	5.19u	1000	3.67	34.41	1.12	27.36	71.5	1.459	1.510
8	18.59	33.76u	4.98u	1200	3.18	34.49	0.95	27.48	60.6	1.591	
429	6.22	33.97r	3.27	1500	2.65	34.54	1.14	27.57	52.6	1.761	
583	4.88	34.09	2.08	2000	2.00	34.61	1.60	27.69	41.8	1.997	
728	4.26	34.22	1.68u								
901	3.84	34.36	1.07u								
1073	3.50	34.45	1.25u								
1314	2.92	34.44r	0.98								
1554	2.53	34.55	1.19								
1820	2.19	34.61	1.40								
2184	1.85	34.61	1.81								

NORPAC
Station
56

NORPAC Station 57; BLACK DOUGLAS; August 19, 1955; 1341, 1558 GCT; 34°51'N, 136°45'W; sounding, 2780 fm; wind 320°, force 2; weather, overcast; sea, moderate; wire angle, 06°, 08°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	19.85	34.20	4.85	0	19.85	34.20	4.85	24.21	372.0	0.000	
9	19.84	34.20	4.94	10	19.86	34.20	4.92	24.21	371.8	0.037	
24	19.83	34.16	4.89	20	19.85	34.18	4.90	24.19	374.0	0.074	
52	17.22	34.22	5.29	30	19.73	34.16	4.87	24.21	371.7	0.112	
62	17.05	34.23	5.33	50	17.30	34.22	5.18	24.87	309.7	0.180	
70	16.45	34.14	5.32	75	16.10	34.08	5.33	25.04	292.9	0.255	
84	15.72	34.04	5.35	100	15.46	34.08	5.29	25.18	279.0	0.327	
102	15.42	34.09	5.28	150	14.87	34.10	5.07	25.33	265.7	0.463	
126	15.24	34.14	5.13	200	11.62	33.78	4.80	25.74	226.6	0.586	0.591
154	14.62	34.07	5.04	250	9.63	33.91	4.20	26.18	184.4	0.688	
205	11.38	33.78	4.76	300	8.18	34.01	3.80	26.49	154.9	0.773	
278	8.72	33.98	3.94	400	6.61	34.04	3.38	26.72	131.8	0.917	
380	6.84	34.04	3.14u	500	5.61	34.04	2.25	26.87	119.6	1.042	1.061
516	5.43	34.04	1.58u	600	4.90	34.10	1.59	27.00	106.5	1.155	
699	4.52	34.25	0.62u	700	4.50	34.25	1.50	27.16	91.5	1.254	
				800	4.18	34.37	1.33	27.29	79.0	1.340	
0	21.32u	34.17u	5.35u	1000	3.59	34.44	1.14	27.41	68.1	1.487	1.540
9	19.89u	34.22u	5.30u	1200	3.05	34.51	1.37	27.52	57.9	1.613	
469	6.00	34.04	3.34u	1500	2.53	34.62	1.50	27.65	45.5	1.768	
633	4.72	34.14	1.74u	2000	1.95	34.68	-	27.75	35.9	1.972	
788	4.20	34.36	1.39								
971	3.62	34.43	1.15								
1155	3.14	34.49	1.32								
1409	2.64	34.60	1.42								
1665	2.28	34.69	1.89								
1945	1.98	34.79	3.06r								
2323	1.76	34.69	2.82u								

NORPAC
Station
57

NORPAC Station 58; BLACK DOUGLAS; August 18, 1955; 1245 GCT; 34°52'N, 140°04'W; sounding, 1160 fm; wind 240°, force 1; weather, partly cloudy; sea, moderate; wire angle, 00°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	21.07	34.16	5.05	0	21.07	34.16	5.05	23.86	405.1	0.000
9	21.02	34.11	5.00	10	21.02	34.11	5.00	23.83	408.0	0.041
24	19.76	34.15	5.22	20	20.38	34.14	5.11	24.02	390.2	0.081
47	16.40	34.14	5.68	30	18.94	34.15	5.33	24.41	352.5	0.118
62	15.69	34.07	6.42	50	16.17	34.11	5.94	25.05	291.5	0.182
76	15.42	34.09	5.74	75	15.44	34.09	5.81	25.19	278.4	0.253
94	15.26	34.08	5.60	100	15.13	34.06	5.59	25.24	273.4	0.322
117	14.35	33.96	5.55	150	12.89	33.76	5.51	25.48	251.5	0.453
145	13.11	33.78	5.52	200	10.95	33.71	5.03	25.81	220.0	0.571
192	11.10	33.70	5.07	250	10.09	33.99	4.82	26.17	185.5	0.673
251	10.05	33.99	4.82	300	9.20	34.07	4.48	26.38	165.5	0.760
340	8.42	34.07	4.18	400	7.27	34.03	3.76	26.64	140.7	0.914
451	6.21	34.00	3.17	500	5.65	34.01	2.60	26.84	121.9	1.045
601	4.74	34.09	1.43	600	4.77	34.09	1.43	27.00	106.2	1.159
811	3.96	34.29	0.50	700	4.37	34.18	0.87	27.12	94.9	1.259
1050	3.45	34.42	0.38	800	3.98	34.28	0.48	27.24	84.0	1.349
1337	2.94	34.54	0.88	1000	3.59	34.39	0.37	27.37	71.5	1.504
				1200	3.19	34.48	0.53	27.48	61.6	1.637

NORPAC
Station
58

NORPAC Station 59; BLACK DOUGLAS; August 17, 1955; 0943, 1152 GCT; 34°53'N, 143°23'W; sounding, 2520 fm; wind 295°, force 2; weather, overcast; sea, moderate; wire angle 00°, 02°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	21.66	34.36	5.00	0	21.66	34.36	5.00	23.84	406.8	0.000	
9	21.64	34.40	4.94	10	21.64	34.40	4.93	23.88	402.9	0.040	
24	21.09	34.51	5.06	20	21.38	34.48	4.98	24.02	390.4	0.080	
52	16.74	34.25	5.63	30	20.57	34.50	5.14	24.25	367.5	0.118	
62	16.37	34.23	5.67	50	17.01	34.27	5.60	24.97	299.4	0.185	
71	15.99	34.23	5.56	75	15.88	34.23	5.56	25.21	276.9	0.247	
85	15.60	34.20	5.58	100	14.94	34.07	5.54	25.29	269.0	0.315	
104	14.72	34.04	5.55	150	12.58	33.88	5.68	25.63	236.9	0.440	
128	13.54	34.02	5.74	200	11.02	33.94	5.27	25.97	204.6	0.521	0.555
157	12.32	33.86	5.65	250	10.45	34.07	4.96	26.18	184.5	0.648	
209	10.88	33.97	5.20	300	9.79	34.13	4.62	26.32	171.0	0.737	
285	10.02	34.13	4.72	400	7.85	34.02	3.97	26.54	150.0	0.898	
387	8.13	34.03	4.08	500	5.99	33.98	3.03	26.78	127.5	1.036	1.055
524	5.68	34.00	2.74	600	4.97	34.02	1.80	26.93	113.8	1.157	
706	4.44	34.14	0.91	700	4.47	34.13	0.89	27.07	99.9	1.264	
				800	4.07	34.27	0.36	27.23	85.2	1.356	
0	21.64u	34.18u	5.05u	1000	3.54	34.41	0.42	27.39	69.6	1.512	1.566
9	21.60u	34.37u	5.28u	1200	3.12	34.47	0.63	27.49	61.0	1.642	
470	6.34	33.96	3.42	1500	2.50	34.53	1.13	27.58	52.2	1.812	
639	4.63	34.03	1.34	2000	2.00	34.66	1.82	27.73	37.7	2.037	
799	4.03	34.27	0.38	2500	(1.60)						
986	3.53	34.40	0.43								
1173	3.16	34.47	0.58								
1431	2.62	34.52	1.02								
1689	2.29	34.60	1.30								
1970	2.00	34.68	1.78								
2346	1.76	34.67	2.10								

NORPAC
Station
59

NORPAC Station 60; HORIZON; August 23, 1955; 1745 GCT; 35°08'N, 148°00'W; sounding, 3000 fm; wind 045°, force 2; weather, partly cloudy; sea, moderate; wire angle, 10°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	23.59	34.56	5.05	0	23.59	34.56	5.05	23.45	444.3	0.000
10	23.58	34.63	5.11	10	23.58	34.63	5.11	23.50	439.2	0.044
25	22.44	34.52	5.28	20	23.47	34.65	5.18	23.58	432.3	0.088
54	16.68	34.18	6.14	30	21.45	34.43	5.38	23.96	395.8	0.129
69	15.22	34.23	6.45	50	17.30	34.19	6.01	24.84	312.1	0.200
83	13.94	34.12	6.44	75	14.72	34.19	6.45	25.44	255.3	0.271
108	12.64	34.09	6.10	100	13.04	34.09	6.23	25.70	229.9	0.332
131	11.86	34.16	5.79	150	11.41	34.13	5.61	26.05	197.2	0.436
159	11.24	34.13	5.56	200	10.79	34.19	5.49	26.21	181.5	0.531
210	10.68	34.20	5.48	250	10.15	34.20	5.30	26.32	170.8	0.619
277	9.77	34.19	5.15	300	9.38	34.17	5.00	26.43	160.5	0.702
376	8.03	34.07	4.42	400	7.55	34.04	4.20	26.61	143.7	0.854
498	5.76	33.98	3.16	500	5.75	33.98	3.16	26.81	124.7	0.989
662	4.42	34.14	1.33	600	4.83	34.07	1.80	26.98	108.3	1.105
883	3.57	34.29	0.45	700	4.25	34.17	1.11	27.12	95.1	1.207
1138	3.11	34.47	0.42	800	3.85	34.23	0.70	27.21	87.1	1.298
1446	2.58	34.60	0.74	1000	3.30	34.37	0.41	27.38	70.8	1.456
				1200	3.00	34.50	0.46	27.51	58.1	1.585

NORPAC
Station
60

NORPAC Station 61; HORIZON; August 24, 1955; 0241 GCT; 35°07'N, 149°40'W; sounding, 3000 fm; wind 090°, force 3; weather, partly cloudy; sea, moderate; wire angle, 08°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	24.40	35.01	4.93	0	24.40	35.01	4.93	23.55	434.8	0.000	
10	23.88	34.98	4.85	10	23.88	34.98	4.85	23.67	423.3	0.043	
25	23.10	35.00	5.17	20	23.39	34.99	5.05	23.85	406.7	0.084	
55	16.84	34.40	5.72	30	21.90	34.89	5.32	24.20	373.2	0.123	
71	16.24	34.42	6.25	50	17.13	34.41	5.59	25.05	292.2	0.190	
85	15.60	34.38	5.95	75	16.07	34.41	6.17	25.30	267.8	0.260	
109	14.62	34.34	5.98	100	15.00	34.35	5.98	25.49	249.8	0.324	
134	13.18	34.42u	5.55	150	12.49	34.19	5.36	25.89	212.1	0.439	0.544
162	12.09	34.18	5.22	200	11.37	34.20	5.03	26.10	191.9	0.540	
215	11.14	34.20	5.00	250	10.66	34.20	5.09	26.23	179.4	0.633	
281	10.25	34.19	5.15	300	9.98	34.18	5.03	26.34	169.5	0.720	
380	8.54	34.11	4.32	400	8.17	34.09	4.19	26.56	148.8	0.879	
505	6.14	34.00	3.44	500	6.24	34.00	3.51	26.76	129.7	1.018	1.038
672	4.56	34.09	1.59	600	5.09	34.03	2.36	26.92	114.3	1.140	
897	3.68	34.29	0.45	700	4.40	34.12	1.35	27.07	100.0	1.248	
1152	3.11	34.42	0.35	800	4.01	34.20	0.84	27.17	90.7	1.343	
1457	2.66	34.56	0.77	1000	3.40	34.35	0.35	27.35	73.3	1.507	1.561
1739	2.28	34.68u	1.14	1200	3.01	34.45	0.38	27.47	62.0	1.642	
2034	1.97	34.67	1.71	1500	2.55	34.48	0.83	27.61	49.2	1.809	
2433	1.70	34.64u	2.23	2000	2.00	34.67	1.60	27.73	37.3	2.025	

NORPAC
Station
61

NORPAC Station 62; BLACK DOUGLAS; August 30, 1955; 1236 GCT; 36°03'N, 122°02'W; sounding, 635 fm; wind 310°, force 5; weather, clear; sea, very rough; wire angle 03°.

Z	OBSERVED			INTERPOLATED				COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	10.73	33.69	4.72	0	10.73	33.69	4.72	25.82	218.1	0.000		
9	10.73	33.69	4.68	10	10.73	33.69	4.66	25.83	218.0	0.022		
28	10.60	33.69	4.57	20	10.67	33.69	4.61	25.84	216.9	0.044		
38	10.58	33.71	4.54	30	10.60	33.70	4.54	25.85	215.7	0.065		
47	10.52	33.65	4.40	50	10.51	33.66	4.42	25.84	216.3	0.108		
57	10.44	33.69	4.41	75	8.80	33.76	3.06	26.20	182.2	0.158		
66	9.02	33.73	3.76	100	8.40	33.86	2.55	26.34	169.0	0.202		
76	8.79	33.93	3.04	150	8.31	34.10	2.47	26.54	149.9	0.281		
95	8.46	33.84	2.61	200	7.85	34.18	2.25	26.67	137.6	0.353	0.355	
119	8.18	33.96	2.24	250	7.60	34.21	1.48	26.73	131.7	0.420		
147	8.33	34.09	1.78	300	7.39	34.27	0.95	26.81	124.8	0.484		
193	7.92	34.17	2.23	400	6.79	34.30	0.74	26.92	114.0	0.604		
258	7.57	34.22	1.33	500	5.97	34.30	0.83	27.04	103.5	0.712	0.723	
355	7.13	34.30	0.72	600	5.49	34.33	0.60	27.11	96.0	0.812		
474	6.04	34.30	0.82	700	4.99	34.38	0.54	27.21	86.7	0.904		
618	5.40	34.34	0.58									
764	4.69	34.45	0.53									

NORPAC
Station
62

NORPAC Station 63; BLACK DOUGLAS; August 31, 1955; 0146, 0426 GCT; 35°33'N, 123°06'W; sounding, 2070 fm; wind 312°, force 6°; weather, clear; sea, very rough; wire rough; wire angle, 25°, 19°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	13.16	33.71	5.64	0	13.16	33.71	5.64	25.39	259.8	0.000	
8	13.14	33.73	5.83	10	13.14	33.73	5.84	25.40	258.1	0.026	
22	13.11	33.74	-	20	13.12	33.74	5.83	25.42	257.0	0.052	
48	10.38	33.78	3.70	30	13.11	33.74	5.83	25.42	257.0	0.077	
56	9.90	33.76	3.29	50	10.25	33.78	3.62	25.98	204.0	0.123	
65	9.46	33.83	2.96	75	9.10	33.86	2.65	26.24	179.5	0.171	
77	9.04	33.87	2.61	100	8.64	33.98	2.30	26.39	164.1	0.214	
95	8.68	33.94	2.35	150	8.03	34.11	1.75	26.59	145.6	0.292	
116	8.56	34.01	2.09	200	7.92	34.19	1.38	26.68	137.7	0.362	0.364
142	8.06	34.09	1.86	250	7.33	34.16	1.40	26.74	131.7	0.430	
187	8.01	34.19	1.40	300	6.94	34.19	1.16	26.81	124.2	0.494	
254	7.24	34.16	1.40	400	6.36	34.25	0.82	26.94	112.8	0.612	
346	6.66	34.22	0.94	500	5.78	34.34	0.73	27.08	99.2	0.719	
472	5.86u	34.33	0.75	600	5.20	34.35	0.36	27.16	91.4	0.814	
650	4.98	34.44	0.59	700	4.73	34.44	0.57	27.28	79.5	0.900	
				800	4.40	34.45	0.56	27.33	75.3	0.977	
0	13.09u	33.74u	5.82u	1000	3.86	34.52	0.76	27.44	64.6	1.117	1.152
451	6.08u	34.28	0.78	1200	3.37	34.55	0.99	27.52	57.9	1.240	
613	5.14	34.36	0.38	1500	2.76	34.58	1.10	27.60	50.4	1.402	
768	4.48	34.44	0.52	2000	2.00	34.61	1.65	27.68	41.9	1.633	
990	3.88	34.52	0.72	2500	1.72	34.66	2.05	27.74	36.3	1.829	
1209	3.36	34.55	0.96	3000	1.65	34.68	2.40	27.76	34.5	2.007	
1519	2.72	34.58	1.10								
1876	2.18	34.67r	1.78u								
2237	1.80	34.63	1.80u								
2699	1.72	34.67	2.28								
3165	1.61	34.68	2.48								
3260	1.58	34.74	2.67								

NORPAC
Station
63

NORPAC Station 64; BLACK DOUGLAS; August 31, 1955; 2200 GCT; 34°53'N, 124°30'W; sounding, 2460 fm; wind 320°, force 6; weather, partly cloudy; sea, very rough; wire rough; wire angle, 13°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	14.62	33.15	5.53	0	14.62	33.15	5.53	24.64	330.2	0.000
8	14.60	33.12	5.81	10	14.60	33.12	5.75	24.64	331.4	0.033
23	14.51	33.17	5.53	20	14.57	33.17	5.55	24.67	327.9	0.066
50	12.62	33.18	5.47	30	14.52	33.18	5.50	24.68	326.1	0.099
64	11.38	33.10	5.72	50	12.62	33.18	5.47	25.08	289.0	0.160
79	9.92	32.93	5.09	75	10.19	32.95	5.28	25.34	264.3	0.230
101	9.43	33.26	4.36	100	9.48	33.26	4.35	25.70	229.5	0.292
125	8.89	33.48	3.38	150	8.79	33.84	3.27	26.27	176.1	0.393
153	8.72	33.87	3.23	200	8.00	33.98	2.36	26.49	154.7	0.476
203	7.95	33.98	2.35	250	7.19	33.99	1.82	26.62	142.7	0.550
268	6.96	34.00	1.69	300	6.67	34.04	1.49	26.73	132.2	0.619
364	6.29	34.11	-	400	6.12	34.15	1.01	26.87	117.1	0.744
483	5.66	34.23	0.64	500	5.58	34.24	0.54	27.03	103.7	0.854
645	4.72	34.32	0.46	600	4.96	34.30	0.42	27.14	92.8	0.953
861	4.07	34.44	1.51r	700	4.58	34.34	0.49	27.22	85.3	1.042
1108	3.45	34.52	0.91	800	4.27	34.40	0.61	27.30	78.1	1.124
1404	2.86	34.57	1.05	1000	3.72	34.49	0.81	27.44	65.5	1.267
				1200	3.25	34.54	0.98	27.51	58.0	1.391

NORPAC
Station
64

0.479

0.869

1.309

NORPAC Station 65; BLACK DOUGLAS; September 1, 1955; 1727, 1937 GCT; 34°13'N, 125°54'W; sounding, 2640 fm; wind 335°, force 4; weather, partly cloudy; sea, very rough; wire angle 03°, 05°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	14.53	33.02	5.04	0	14.53	33.02	5.04	24.57	337.5	0.000	
9	14.49	32.99	5.30	10	14.49	32.99	5.27	24.56	338.8	0.034	
24	14.44	33.01	5.15	20	14.45	33.01	5.20	24.58	337.1	0.068	
52	13.16	33.20	6.16	30	14.42	33.02	5.18	24.59	335.9	0.101	
62	12.21	33.22	5.38	50	13.70	33.15	5.72	24.85	311.3	0.166	
71	11.81	33.17	5.65	75	11.74	33.20	5.63	25.26	271.8	0.239	
85	11.56	33.24	5.49	100	11.12	33.29	5.29	25.45	254.0	0.305	
104	10.92	33.31	5.26	150	9.12	33.63	3.75	26.06	196.0	0.416	0.510
128	9.56	33.42	4.61	200	8.26	33.93	2.74	26.41	162.2	0.506	
156	9.01	33.69	3.57	250	7.66	34.06	2.16	26.61	143.5	0.582	
207	8.16	33.96	2.67	300	7.23	34.12	1.78	26.72	133.2	0.652	
281	7.38	34.11	1.87	400	6.40	34.17	1.21	26.87	119.2	0.778	
382	6.54	34.16	1.01u	500	5.84	34.30	0.83	27.06	101.5	0.888	0.904
517	5.64	34.31	0.50u	600	5.20	34.30	0.62	27.12	95.0	0.987	
701	4.74	34.37	0.55	700	4.75	34.37	0.57	27.23	85.2	1.077	
				800	4.46	34.42	0.58	27.30	78.0	1.158	
				1000	3.82	34.46	0.68	27.40	69.2	1.306	1.350
0	14.72u	32.98u	5.72u	1200	3.33	34.52	0.78	27.50	59.5	1.434	
9	14.65u	32.99u	5.75u	1500	2.65	34.60	1.08	27.61	48.4	1.596	
464	5.96	34.21	1.16u	2000	2.05	34.65	1.75	27.71	39.1	1.815	
633	5.00	34.30	0.81u								
793	4.47	34.42	0.59								
980	3.88	34.45	0.67								
1167	3.42	34.51	0.78								
1426	2.82	34.59	1.05								
1684	2.44	34.58u	1.34								
1964	2.08	34.65	1.72								
2344	1.80	34.67	2.17								

NORPAC
Station
65

NORPAC Station 66; BLACK DOUGLAS; September 2, 1955; 0902 GCT; 33°33'N, 127°16.5'W; sounding, 2500 fm; wind 335°, force 5; weather, partly cloudy; sea, very rough; wire rough; wire angle, 14°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.73	33.35	5.24	0	16.73	33.35	5.24	24.33	360.2	0.000
9	16.72	33.34	5.47	10	16.71	33.34	5.46	24.32	360.9	0.018
23	16.73	33.34	5.41	20	16.70	33.34	5.42	24.32	360.9	0.072
50	15.00	33.24	5.90	30	16.72	33.34	5.41	24.32	360.9	0.108
64	12.86	33.14	5.88	50	15.00	33.24	5.90	24.64	331.2	0.178
78	11.90	33.11	5.83	75	12.08	33.11	5.84	25.13	284.0	0.254
101	11.12	33.19	5.41	100	11.12	33.19	5.42	25.37	261.9	0.323
124	9.57	33.15	4.97	150	9.10	33.52	4.33	25.96	204.9	0.440
153	9.05	33.55	4.24	200	8.40	33.90	3.72	26.37	166.3	0.533
203	8.35	33.91	3.64	250	7.65	33.99	2.40	26.56	148.5	0.612
266	7.41	34.01	2.08	300	6.98	34.03	1.74	26.68	136.6	0.683
362	6.34	34.07	1.33	400	6.07	34.16	0.95	26.90	115.6	0.809
475	5.73	34.22	0.66	500	5.60	34.22	0.61	27.02	105.3	0.920
633	4.50	34.27	0.41	600	4.75	34.25	0.44	27.14	93.8	1.020
844	3.98	34.38	0.66	700	4.21	34.31	0.50	27.24	84.0	1.108
1085	3.40	34.52	0.91	800	4.00	34.37	0.61	27.31	77.3	1.189
1379	2.87	34.56	1.19	1000	3.63	34.47	0.81	27.43	66.1	1.333
				1200	3.10	34.55	1.05	27.54	55.2	1.454

NORPAC
Station
66

NORPAC Station 67; BLACK DOUGLAS; September 2, 3, 1955; 2237, 0056 GCT; 33°04'N, 128°45'W; sounding, 2800 fm; wind 340°, force 4; weather, cloudy; sea, very rough; wire angle 13°, 11°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	17.27	33.21	5.04	0	17.27	33.21	5.04	24.10	382.2	0.000	
8	17.22	33.19	5.20	10	17.22	33.19	5.23	24.10	382.7	0.038	
23	17.21	33.21	5.36	20	17.21	33.20	5.30	24.11	381.3	0.076	
51	15.83	33.46	5.65	30	17.21	33.21	5.40	24.12	380.8	0.114	
60	14.93	33.47	3.89 ^r	50	15.97	33.45	5.64	24.58	336.4	0.186	
69	14.02	33.52	5.59	75	13.89	33.56	5.58	25.12	285.2	0.264	
84	13.73	33.58	5.55	100	13.40	33.57	5.50	25.22	275.2	0.334	
102	13.38	33.57	5.49	150	10.85	33.53	4.70	25.68	232.0	0.462	
125	12.62	33.58	4.75	200	9.35	33.77	4.05	26.12	190.4	0.568	0.572
153	10.64	33.53	4.69	250	8.43	33.98	3.54	26.43	160.8	0.656	
203	9.30	33.78	4.02	300	7.63	34.02	3.13	26.58	146.3	0.732	
275	8.02	34.02	3.31	400	6.21	34.02	2.28	26.78	127.8	0.870	
375	6.56	34.02	2.57	500	5.30	34.12	0.98	26.96	110.1	0.989	1.008
509	5.24	34.13	0.94	600	4.75	34.19	0.82	27.08	98.8	1.093	
691	4.42	34.26	0.43	700	4.40	34.27	0.44	27.19	89.0	1.187	
				800	4.05	34.32	0.41	27.26	81.7	1.272	
				1000	3.60	34.46	0.73	27.42	67.2	1.421	1.470
				1200	3.18	34.49	0.70	27.49	60.2	1.548	
				1500	2.52	34.59	1.25	27.62	48.1	1.711	
				2000	2.00	34.64	1.67	27.71	39.8	1.930	
0	17.24 ^u	33.21 ^u	5.14 ^u								
9	17.21 ^u	33.21 ^u	4.97 ^u								
457	5.58	34.06	1.60								
620	4.65	34.20	0.80								
775	4.13	34.31	0.41								
958	3.72	34.42	0.75								
1142	3.32	34.49	0.64								
1395	2.71	34.51	1.18								
1651	2.41	34.61	1.32								
1932	2.06	34.63	1.67								
2314	1.79	34.67	1.97								

NORPAC
Station
67

NORPAC Station 68; BLACK DOUGLAS; August 21, 1955; 1705 GCT; 33°02'N, 132°15'W; sounding, 2276 fm; wind 357°, force 5; weather, overcast; sea, rough; wire angle, 15°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	18.59	33.87	4.36	0	18.59	33.87	4.36	24.28	364.6	0.000
9	18.54	33.86	4.95	10	18.55	33.86	4.95	24.28	364.5	0.018
23	18.56	33.87	4.95	20	18.54	33.86	4.95	24.29	364.0	0.073
50	17.28	34.13	5.33	30	18.50	33.91	5.00	24.34	359.8	0.109
52	16.77	34.14	5.30	50	17.28	34.13	5.33	24.80	315.6	0.177
77	16.50	34.14	5.30	75	16.55	34.14	5.30	24.98	298.6	0.253
98	16.09	34.18	5.26	100	16.08	34.18	5.26	25.13	284.6	0.326
120	15.94	34.22	5.11	150	14.99	34.05	5.17	25.26	271.9	0.465
146	15.23	34.09	5.19	200	11.42	33.69	4.72	25.69	230.5	0.591
195	11.68	33.69	4.75	250	9.65	33.85	4.47	26.13	189.0	0.696
256	9.50	33.86	4.43	300	8.51	33.92	4.00	26.37	166.3	0.785
349	7.49	33.96	3.31	400	6.73	33.99	2.65	26.69	136.3	0.936
464	6.01	34.04	1.91	500	5.77	34.10	1.45	26.90	116.4	1.062
621	4.93	34.25	0.61	600	5.03	34.23	0.68	27.08	99.0	1.170
834	4.18	34.33	0.46	700	4.59	34.29	0.50	27.18	89.5	1.264
1079	3.50	34.49	0.60	800	4.29	34.32	0.47	27.24	84.1	1.351
1375	2.88	34.54	1.00	1000	3.70	34.44	0.58	27.40	69.3	1.504
				1200	3.21	34.52	0.78	27.50	59.0	1.633
										0.596
										1.083
										1.557

NORPAC
Station
68

NORPAC Station 69; BLACK DOUGLAS; September 7, 1955; 0016 GCT; 34°19'N, 120°48'W; sounding, 370 fm; wind 305°, force 5; weather, partly cloudy; sea, rough; wire angle, 07°.

Z	OBSERVED			INTERPOLATED					COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	Δ
0	14.3u	33.69u	5.96	0	(13.9)	(33.68)	5.96	25.20	277.7	0.000	
9	13.92	33.66	5.84	10	13.92	33.66	5.82	25.19	278.8	0.028	
28	13.85	33.64	5.75	20	13.90	33.65	5.78	25.19	278.8	0.056	
38	13.74	33.62	5.77	30	13.84	33.64	5.75	25.19	278.8	0.083	
47	13.33	33.63	5.62	50	12.85	33.64	5.32	25.39	259.5	0.137	
56	11.50	33.65	4.47	75	9.84	33.69	3.74	25.98	204.0	0.195	
65	10.08	33.69	4.09	100	9.09	33.80	3.40	26.19	183.5	0.244	
75	9.84	33.69	3.74	150	8.85	33.97	3.23	26.36	167.5	0.331	0.413
84	9.62	33.75	3.58	200	8.27	34.09	1.95	26.54	150.8	0.410	
94	9.23	33.78	3.61	250	7.98	34.19	1.54	26.66	138.5	0.483	
117	8.94	33.87	3.16	300	7.62	34.23	1.77	26.74	130.8	0.550	
144	8.88	33.96	3.24	400	7.00	34.26	1.42	26.86	119.9	0.675	
190	8.34	34.07	2.10	500	6.30	34.28	-	26.97	109.8	0.790	0.803
242	8.01	34.18	1.55								
337	7.40	34.25	1.91								
446	6.64	34.27	0.94								
562	5.94	34.30	1.52u								

NORPAC
Station
69

NORPAC Station 70; BLACK DOUGLAS; September 6, 1955; 1821 GCT; 34° 09' N, 121° 09' W; sounding, 1100 fm; wind 302°, force 5; weather, cloudy; sea, rough; wire angle, 13°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	15.4	33.62	6.42u	0	15.4	33.62	(5.60)	24.84	311.8	0.000	
8	15.39	33.62	5.62	10	15.39	33.62	5.65	24.85	311.2	0.031	
23	15.25	33.60	5.88	20	15.30	33.60	5.83	24.85	310.7	0.062	
51	11.30	33.64	4.43	30	15.00	33.60	5.79	24.91	305.3	0.093	
64	10.13	33.74	3.29	50	11.50	33.63	4.52	25.64	235.4	0.147	
78	9.32	33.76	2.82	75	9.45	33.76	2.87	26.07	192.8	0.201	
101	8.70	33.87	2.82	100	8.74	33.87	2.82	26.30	173.4	0.246	
123	8.56	34.00	2.85	150	8.32	34.03	2.25	26.48	155.7	0.328	
151	8.32	34.03	2.23	200	8.05	34.15	2.03	26.62	143.0	0.402	0.405
199	8.06	34.15	2.01	250	7.73	34.29	1.00	26.78	127.8	0.470	
261	7.66	34.29	0.99	300	7.35	34.28	1.28	26.82	123.1	0.533	
355	6.89	34.27	1.63	400	6.60	34.29	1.43	26.94	112.7	0.651	
469	6.19	34.33	0.91	500	6.00	34.34	0.83	27.06	100.8	0.757	0.769
624	5.09	34.38	0.64	600	5.21	34.37	0.64	27.17	90.3	0.853	
831	4.37	34.48	0.82	700	4.75	34.43	0.73	27.28	80.4	0.938	
1070	3.66	34.54	0.85	800	4.42	34.47	0.82	27.34	74.1	1.015	
1361	2.99	34.60	1.36	1000	3.85	34.52	0.84	27.44	64.7	1.154	1.190
				1200	3.34	34.57	1.05	27.53	56.4	1.275	

NORPAC
Station
70

NORPAC Station 71; BLACK DOUGLAS; September 6, 1955; 0755 GCT; 33°49'N, 121°51'W; sounding, 2000 fm; wind 315°, force 4; weather, overcast; sea, very rough; wire angle, 07°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	
0	14.49	33.43	5.87	0	14.49	33.43	5.87	24.90	306.0	0.000		
9	14.46	33.43	5.47	10	14.43	33.43	5.47	24.90	306.0	0.031		
24	13.96	33.61	5.67	20	14.19	33.60	5.58	25.10	287.7	0.060		
51	12.06	33.31	5.43	30	13.59	33.57	5.64	25.19	278.8	0.089		
61	10.60	33.17	5.67	50	12.18	33.33	5.43	25.28	270.1	0.144		
70	10.30	33.24	5.70	75	10.19	33.30	5.67	25.62	238.1	0.207		
84	9.93	33.38	5.13	100	9.33	33.49	4.35	25.90	210.3	0.263		
103	9.24	33.51	4.28	150	8.46	33.88	3.05	26.35	168.3	0.356		
127	8.77	33.76	3.34	200	7.70	34.02	2.38	26.58	146.9	0.435	0.438	
156	8.39	33.91	2.96	250	7.20	34.10	1.78	26.71	134.2	0.505		
207	7.59	34.04	2.27	300	6.70	34.13	1.42	26.80	125.9	0.570		
280	6.94	34.13	1.55	400	5.42	34.11	0.78	26.95	111.9	0.689		
381	5.57	34.10	0.98	500	5.22	34.27	0.75	27.09	98.1	0.794		
516	5.26	34.28	0.62	600	5.10	34.35	0.85	27.16	90.2	0.888		
699	4.57	34.37	0.65	700	4.55	34.37	0.67	27.25	83.0	0.975		
				800	4.26	34.42	0.75	27.32	76.1	1.055		
0	14.47u	33.44u	5.70u	1000	3.73	34.48	1.28	27.43	66.5	1.197	1.236	
9	14.41u	33.44u	5.76u	1200	3.21	34.53	1.36	27.51	58.0	1.322		
468	5.30	34.20	0.76	1500	2.57	34.59	1.44	27.62	48.0	1.481		
636	4.97	34.37	0.89	2000	2.05	34.62	2.00	27.69	41.2	1.704		
792	4.31	34.42	0.72	2500	1.80	34.64	2.15	27.72	38.8	1.904		
977	3.79	34.52	1.28									
1164	3.32	34.52	1.34									
1421	2.74	34.58	1.43									
1680	2.42	34.58	1.37									
1963	2.09	34.63	1.94									
2541	1.82	34.63	2.24									

NORPAC
Station
71

NORPAC Station 72; BLACK DOUGLAS; September 5, 1955; 1920 GCT; 33°09'N, 123°13'W; sounding, 2400 fm; wind 310°, force 3; weather, overcast; sea, rough; wire angle, 18°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.36	33.39	5.70	0	16.36	33.39	5.70	24.45	349.0	0.000
8	16.32	33.36	5.61	10	16.33	33.36	5.60	24.44	350.1	0.035
22	16.23	33.43	5.41	20	16.27	33.43	5.43	24.50	344.1	0.070
49	16.08	33.40	5.35	30	16.19	33.43	5.39	24.52	342.8	0.104
63	14.42	33.31	5.44	50	16.07	33.40	5.35	24.53	341.7	0.172
77	13.38	33.30	5.65	75	13.50	33.30	5.64	25.00	296.4	0.251
99	11.99	33.32	5.44	100	11.95	33.32	5.43	25.32	266.0	0.322
122	9.60r	33.31	5.04	150	9.92	33.58	4.50	25.88	213.2	0.441
149	9.94	33.57	4.51	200	8.66	33.81	3.04	26.26	176.9	0.538
199	8.68	33.80	3.05	250	7.81	33.98	2.69	26.52	151.8	0.621
260	7.69	34.01	2.61	300	7.32	34.08	2.17	26.67	138.1	0.693
346	6.94	34.14	1.28	400	6.39	34.16	1.21	26.87	119.5	0.822
453	5.93	34.19	1.15	500	5.70	34.22	0.71	27.00	106.8	0.935
601	5.28	34.31	0.52	600	5.29	34.31	0.53	27.10	97.6	1.036
806	4.52	34.42	0.85	700	4.89	34.40	0.70	27.23	84.7	1.126
1049	3.86	34.43	0.72	800	4.54	34.42	0.84	27.29	79.2	1.208
1344	3.10	34.53	1.03	1000	4.00	34.42	0.72	27.37	73.3	1.361
				1200	3.48	34.47	0.87	27.44	65.0	1.499

NORPAC
Station
72

0.952

1.407

NORPAC Station 73; BLACK DOUGLAS; September 5, 1955; 0337, 0528 GCT; 32°29'N, 124°35'W; sounding, 2460 fm; wind 290°, force 3; weather, overcast; sea, rough; wire angle 05°, 00°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.51	33.46	5.35	0	16.51	33.46	5.35	24.47	347.2	0.000
9	16.44	33.46	5.26	10	16.45	33.46	5.13	24.49	345.6	0.035
24	15.85	33.44	5.02	20	15.99	33.45	5.08	24.58	336.1	0.069
51	15.61	33.40	4.85	30	15.80	33.43	4.99	24.61	333.9	0.102
61	14.99	33.41	5.54	50	15.63	33.40	4.85	24.62	332.4	0.169
70	14.36	33.37	5.50	75	14.00	33.37	5.55	24.95	301.4	0.248
84	13.38	33.38	5.60	100	12.60	33.37	5.32	25.23	274.5	0.320
102	12.54	33.37	5.30	150	10.12	33.48	4.61	25.79	221.2	0.445
125	11.60	33.47	5.17	200	8.63	33.88	3.31	26.32	171.0	0.543
154	9.88	33.49	4.49	250	7.68	34.04	2.58	26.59	145.3	0.622
204	8.55	33.90	3.25	300	7.19	34.16	1.60	26.76	129.3	0.691
279	7.33	34.11	2.13	400	6.79	34.23	0.93	26.87	119.4	0.816
381	6.94	34.23	0.94	500	5.99	34.32	0.57	27.05	102.5	0.927
516	5.92	34.33	0.49	600	5.39	34.37	0.60	27.15	92.1	1.024
701	4.83	34.40	0.34	700	4.83	34.40	0.34	27.24	84.0	1.112
				800	4.41	34.45	0.72	27.33	75.5	1.192
0	16.49u	33.43u	5.07u	1000	3.81	34.50	0.68	27.43	66.2	1.334
9	15.42r	33.38u	5.23u	1200	3.32	34.54	1.07	27.51	58.0	1.458
469	6.06	34.23	0.88	1500	2.75	34.61	1.19	27.62	47.8	1.617
638	5.14	34.38	0.64	2000	2.10	34.65	1.90	27.71	39.2	1.834
771F	4.58	34.43	0.58							
797	4.42	34.45	0.72							
984	3.86	34.49	0.62							
1172	3.40	34.53	1.01							
1687	2.46	34.64	1.28							
1969	2.10	34.65	1.69							
2346	1.82	34.70	2.21							

NORPAC
Station
73

0.547

0.944

1.379

NORPAC Station 74; BLACK DOUGLAS; September 4, 1955; 1228 GCT; 31°37'N, 126°19'W; sounding, 2600 fm; wind 332°, force 2; weather, drizzle; sea, rough; wire angle, 15°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	16.64	33.49	5.26	0	16.64	33.49	5.26	24.46	348.2	0.000
8	16.62	33.48	5.23	10	16.62	33.48	5.22	24.45	348.8	0.035
23	16.62	33.47	5.17	20	16.62	33.47	5.18	24.45	349.1	0.070
50	16.15	33.44	5.17	30	16.57	33.46	5.16	24.45	348.8	0.104
63	14.78	33.60u	5.36	50	16.15	33.44	5.17	24.54	340.8	0.174
78	13.76	33.37	5.46	75	13.89	33.37	5.44	24.97	299.2	0.252
99	13.05	33.57	5.44	100	13.00	33.57	5.43	25.31	267.5	0.323
122	11.12	33.41	4.92	150	9.77	33.57	4.88	25.90	210.9	0.443
149	9.78	33.57	4.88	200	8.50	33.91	3.07	26.37	166.7	0.538
195	8.59	33.88	3.25	250	7.92	34.10	2.52	26.61	143.9	0.615
256	7.84	34.11	2.48	300	7.32	34.12	1.98	26.71	134.5	0.685
347	6.81	34.14	1.58	400	6.28	34.20	1.12	26.91	115.2	0.810
459	5.84	34.26	0.78	500	5.60	34.28	0.66	27.06	101.2	0.918
610	5.02	34.33	0.59	600	5.06	34.33	0.58	27.16	91.6	1.014
814	4.34	34.47	0.63	700	4.73	34.39	0.59	27.25	83.0	1.102
1052	3.66	34.55	0.92	800	4.39	34.46	0.61	27.36	74.1	1.180
1345	3.02	34.61	1.81	1000	3.80	34.54	0.81	27.47	62.5	1.317
				1200	3.32	34.59	1.28	27.55	54.9	1.434
										0.542
										0.935

NORPAC
Station
74

NORPAC Station 75; BLACK DOUGLAS; September 3, 1955; 2016, 2209 GCT; 31°09'N, 127°48'W; sounding, 2400 fm; wind 338°, force 3; weather, overcast; sea, very rough; wire angle, 05°, 14°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	17.93	33.96	4.79	0	17.93	33.96	4.79	24.52	342.9	0.000	
9	17.87	33.95	5.01	10	17.87	33.95	5.00	24.52	342.3	0.034	
23	17.86	33.94	4.90	20	17.85	33.94	4.93	24.52	342.3	0.068	
51	17.11	33.90	5.32	30	17.85	33.93	4.91	24.52	342.3	0.103	
60	16.57	33.95	5.57	50	17.50	33.91	5.07	24.79	316.5	0.170	
68	16.52	34.07	5.01	75	16.40	34.07	5.10	24.96	300.6	0.250	
83	16.16	34.04	5.35	100	15.30	33.96	5.33	25.13	284.2	0.323	
101	15.26	33.96	5.33	150	13.20	33.69	5.07	25.36	262.3	0.462	
124	14.92	33.96	5.18	200	9.98	33.62	4.30	25.90	211.0	0.579	0.584
153	12.98	33.67	5.04	250	8.35	33.91	3.60	26.39	164.9	0.673	
203	9.80	33.62	4.27	300	7.39	33.99	2.94	26.59	145.7	0.751	
277	7.78	33.97	3.21	400	6.17	34.06	1.85	26.81	124.2	0.886	
379	6.34	34.03	2.03	500	5.42	34.17	1.16	26.99	107.9	1.002	1.021
514	5.29	34.18	0.98	600	4.96	34.23	0.60	27.10	97.6	1.105	
697	4.48	34.32	0.72	700	4.46	34.32	0.70	27.23	85.3	1.196	
				800	4.26	34.36	0.72	27.28	80.5	1.279	
0	17.95u	33.93u	5.01u	1000	3.70	34.48	0.90	27.43	65.8	1.426	1.476
9	17.86u	33.94u	4.82u	1200	3.27	34.54	1.02	27.52	57.9	1.550	
457	5.86	34.13	1.57	1500	2.75	34.59	1.18	27.60	49.5	1.711	
622	4.87	34.25	0.59	2000	2.10	34.62	1.56	27.68	42.1	1.940	
777	4.33	34.35	0.69								
960	3.79	34.47	0.88								
1144	3.39	34.45u	2.18r								
1398	2.86	34.58	1.45u								
1655	2.54	34.61u	1.25								
1936	2.17	34.60u	1.58								
2312	1.88	34.65	1.95								

NORPAC
Station
75

NORPAC Station 76; STRANGER; September 1, 1955; 1005, 1127 GCT; 31°08.5'N, 130°59'W; sounding, 2410 fm; wind 070°, force 6-8; weather, overcast; sea, high; wire angle, 21°, 25°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
1	18.59	33.92	4.86	0	(18.59)	(33.92)	(4.86)	24.32	361.5	0.000	
9	18.61	33.99	5.49	10	18.65	34.00	5.48	24.37	356.7	0.036	
24	18.68	34.05	5.56	20	18.68	34.04	5.53	24.38	355.3	0.072	
51	18.87	34.03r	5.60	30	18.75	34.14	5.60	24.44	349.8	0.107	
60	18.15	34.36	5.63	50	18.90	34.43	5.60	24.63	331.8	0.175	
69	17.65	34.29	5.87	75	17.50	34.31	5.90	24.89	307.0	0.255	
81	17.28	34.33	5.92	100	16.59	34.35	5.80	25.18	280.0	0.328	
98	16.61	34.40	5.90	150	14.90	34.19	6.01	25.39	259.8	0.465	
119	16.16	34.28	5.62	200	10.18	33.65	5.05	25.89	211.7	0.582	0.587
143	15.34	34.28	5.94	250	8.80	33.69	4.27	26.15	187.2	0.681	
188	10.66	34.24r	5.35	300	7.70	(33.79)	3.78	26.39	164.7	0.769	
254	8.71	33.70	4.21	400	6.26	(33.98)	2.45	26.74	131.5	0.917	
347	6.95	-	3.36	500	5.49	(34.13)	1.33	26.96	110.8	1.038	1.058
472	5.66	-	1.46	600	4.88	34.27	0.82	27.14	93.9	1.141	
649	4.62	-	0.64	700	4.40	34.40	0.55	27.29	79.1	1.227	
0	18.77u	-	5.58u	800	4.03	34.47	0.58	27.38	70.7	1.302	
9	18.75u	-	5.50u	1000	3.70	34.54	0.75	27.47	61.8	1.435	1.485
440	6.07u	-	2.16	1200	3.25	34.60	1.05	27.57	53.0	1.549	
596	4.95	34.26	0.88	1500	2.75	34.64	1.46	27.64	45.9	1.698	
744	4.34	34.41	0.55	2000	2.07	34.70	2.04	27.75	35.4	1.901	
921	3.88	34.49	0.62								
1099	3.50	34.58	0.84								
1347	2.97	34.63	1.38								
1602	2.66	34.65	1.50								
1887	2.21	34.69	1.87								
2276	1.88	34.71	2.43								

NORPAC
Station
76

NORPAC Station 77; STRANGER; August 30, 1955; 1413 GCT; 31°08'N, 134°10'W; sounding, 2530 fm; wind 080°, force 4; weather, overcast; sea, moderate; wire angle, 15°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	$\Delta D'$	ΔD
0	19.44	33.78	5.67	0	19.44	33.78	5.67	24.00	392.2	0.000	
10	19.45	33.80	5.60	10	19.45	33.80	5.60	24.01	391.0	0.039	
24	18.87	33.85	5.68	20	18.88	33.77	5.80	24.14	379.2	0.078	
48	15.36	33.62	6.19	30	18.88	33.99	5.41	24.30	363.3	0.116	
61	16.10	33.70	6.12	50	16.31	33.62	6.18	24.64	331.0	0.185	
76	15.52	33.70	6.13	75	15.56	33.70	6.12	24.87	309.4	0.265	
94	14.94	33.73	6.08	100	14.83	33.75	6.04	25.07	290.3	0.340	
116	14.58	33.80	5.98	150	13.40	33.75	5.68	25.38	260.9	0.478	
146	14.53r	33.96u	5.95u	200	10.49	33.59	5.37	25.79	221.8	0.599	0.604
193	10.73	33.58	5.42	250	9.15	33.86	4.77	26.23	180.1	0.699	
253	9.04	33.87	4.71	300	8.10	339.3	4.22	26.44	160.0	0.784	
341	7.36	33.96	3.58	400	6.56	34.01	2.42	26.72	133.2	0.931	
454	6.03	34.05	1.76	500	5.69	34.09	1.35	26.89	116.6	1.056	
605	4.98	34.16	0.66	600	5.00	34.15	0.70	27.03	104.0	1.166	
835	4.09	34.38	0.40	700	4.52	34.25	0.46	27.16	91.5	1.264	
1082	3.44	34.48	0.81	800	4.20	34.35	0.40	27.27	80.8	1.350	
1385	2.86	34.54	1.13	1000	3.62	34.46	0.70	27.41	67.6	1.499	1.552
				1200	3.19	34.50	0.96	27.49	59.8	1.626	

NORPAC
Station
77

NORPAC Station 78; STRANGER; August 29, 1955; 1354, 1532 GCT; 31°12'N, 137°19'W: sounding, 2600 fm; wind 345°, force 2; weather, slight rain showers; sea, moderate; wire angle 02°, 00°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	20.70	34.93	5.42	0	20.70	34.93	5.42	24.54	340.0	0.000	
8	20.73	34.96	5.38	10	20.70	34.96	5.46	24.58	337.0	0.034	
23	20.43	34.90	5.46	20	20.48	34.92	5.48	24.59	336.2	0.068	
48	20.12	34.88	5.41	30	20.36	34.89	5.43	24.61	334.1	0.101	
55	19.92	34.89	5.51	50	20.09	34.88	5.45	24.67	327.7	0.167	
67	17.97	34.67	5.82	75	17.79	34.66	5.80	25.08	288.5	0.244	
78	17.70	34.66	5.78	100	17.18	34.61	5.70	25.22	277.5	0.315	
98	17.19	34.61	5.70	150	16.39	34.50	5.54	25.29	269.2	0.451	
122	17.03	34.63	5.66	200	12.74	34.03	5.33	25.72	228.3	0.576	0.580
152	16.32	34.48	5.53	250	11.09	34.05	5.02	26.05	197.2	0.682	
201	12.73	34.04	5.33	300	9.41	33.99	4.93	26.28	174.6	0.775	
272	10.21	34.01	5.04	400	7.25	33.98	3.73	26.60	144.8	0.935	
374	7.73	33.98	4.13	500	5.82	33.99	2.46	26.80	126.0	1.070	1.091
501	5.82	33.99	2.46	600	5.00	34.11	1.30	26.99	107.8	1.187	
685	4.67	34.21	0.68	700	4.60	34.22	0.57	27.13	94.5	1.289	
				800	4.20	34.32	0.43	27.24	84.0	1.378	
				1000	3.70	34.45	0.58	27.41	68.3	1.530	1.585
				1200	3.19	34.51	0.91	27.49	59.6	1.658	
				1500	2.65	34.59	1.40	27.61	49.2	1.822	
				2000	2.15	34.62	1.77	27.68	41.6	2.048	
0	20.75u	34.96u	5.42								
10	20.56u	34.95u	5.49u								
495	5.83u	33.96u	2.67u								
664	4.73	34.20	0.70								
832	4.15	34.33	0.42								
1025	3.64	34.46	0.60								
1220	3.16	34.51	0.94								
1488	2.72	34.58	1.34								
1758	2.40	34.60	1.62								
2055	1.99	34.63	1.89								
2456	1.75	34.65	2.33								

NORPAC
Station
78

NORPAC Station 79; STRANGER; August 28, 1955; 1643 GCT; 31°09'N, 140°29'W; sounding, 2550 fm; wind 100°, force 2; weather, partly cloudy; sea, moderate; wire angle, 00°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	20.91	34.80	5.38	0	20.91	34.80	5.38	24.39	355.4	0.000
10	20.92	34.79	5.38	10	20.92	34.79	5.38	24.38	356.2	0.036
24	20.67	34.85	5.46	20	20.79	34.83	5.41	24.44	349.5	0.071
49	19.86	34.82	5.71	30	20.57	34.86	5.49	24.52	342.1	0.106
63	18.05	34.54	5.89	50	19.80	34.81	5.72	24.69	325.9	0.172
79	17.50	34.52	5.94	75	17.62	34.52	5.93	25.02	294.8	0.250
98	16.74	34.49	5.78	100	16.71	34.49	5.77	25.22	276.0	0.321
123	16.09	34.42	5.67	150	13.80	34.09	5.59	25.55	244.2	0.453
152	13.70	34.08	5.59	200	11.42	33.97	5.24	25.91	209.7	0.566
201	11.41	33.97	5.24	250	10.60	34.04	5.20	26.12	190.2	0.666
264	10.34	34.05	5.18	300	9.70	34.08	5.00	26.31	172.3	0.757
358	8.50	34.05	4.53	400	7.60	34.02	4.13	26.58	146.3	0.916
474	6.01	33.96	3.20	500	5.73	33.97	2.90	26.80	126.0	1.052
631	4.84	34.13	0.99	600	5.02	34.03	1.62	26.97	110.2	1.171
852	4.16	34.29	0.38	700	4.72	34.21	0.65	27.13	94.0	1.273
1029p	3.55	34.43	0.52	800	4.20	34.28	0.36	27.22	86.3	1.363
1315p	3.02	34.51	0.96	1000	3.59	34.42	0.49	27.39	70.1	1.519
				1200	3.18	34.49	0.79	27.48	60.5	1.650

NORPAC
Station
79

NORPAC Station 80; STRANGER; August 27, 1955; 1925, 1947, 2115 GCT; 31°08.5'N, 143°39'W; sounding, 2750 fm; wind 090°, force 2; weather, cloudy; sea, moderate; wire angle, 02°, 07°, 05°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	21.79	34.96	5.43	0	21.79	34.96	5.43	24.27	366.2	0.000	
10	21.68	34.97	5.43	10	21.68	34.97	5.43	24.30	363.2	0.036	
25	21.34	35.10	5.75	20	21.43	35.10	5.69	24.47	347.3	0.072	
50	19.14	34.81	5.71	30	21.28	35.09	5.78	24.51	343.1	0.106	
60	18.73	34.81	6.02	50	19.14	34.81	5.71	24.86	310.0	0.172	
70	18.36	34.79	5.93	75	18.13	34.78	5.83	25.09	287.8	0.246	
80	17.96	34.78	5.78	100	17.60	34.77	5.94	25.22	276.2	0.317	
100	17.60	34.77	5.94	150	16.65	34.61	5.47	25.32	266.0	0.452	
124	17.30	34.74	5.73	200	13.02	34.16	5.21	25.75	224.8	0.575	0.579
153	16.47	34.58	5.44	250	11.70	34.13	5.28	26.00	202.1	0.681	
				300	10.63	34.11	5.18	26.16	185.8	0.779	
200	13.02	34.16	5.21	400	8.62	34.01	4.52	26.42	162.1	0.952	
268	11.24	34.13	5.30	500	6.59	33.95	3.60	26.68	137.4	1.102	1.124
369	9.27	34.04	4.74	600	5.37	34.03	1.93	26.89	117.2	1.229	
495	6.62	33.96	3.69	700	4.80	34.07	1.21	26.99	108.0	1.342	
628p	5.07	34.04	1.57	800	4.30	34.22	0.65	27.16	91.5	1.442	
				1000	3.78	34.38	0.38	27.33	74.6	1.608	1.666
0	22.15u	35.00u	5.30u	1200	3.29	34.48	0.66	27.47	62.5	1.745	
10	21.68	34.94u	5.36u	1500	2.65	34.56	1.50	27.59	51.0	1.916	
491	6.78	33.95	3.82	2000	2.19	34.60	1.88	27.66	43.9	2.152	
662	4.93	34.05	1.31								
825	4.17	34.28	0.49								
1017	3.70	34.39	0.39								
1211	3.24	34.49	0.71								
1479	2.70	34.55	1.48								
1747	2.44	34.58	1.77								
2043	2.02	34.60	1.91								
2440	1.78	34.65	2.22								

NORPAC
Station
80

NORPAC Station 81; STRANGER; August 26, 1955; 2131 GCT; 31°07'N, 146°49.5'W; sounding, 2950 fm; wind 056°, force 4; weather, cloudy; sea, rough; wire angle, 04°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	22.45	35.00	5.31	0	22.45	35.00	5.31	24.11	381.0	0.000
10	22.43	35.01	5.29	10	22.43	35.01	5.29	24.13	380.0	0.038
25	22.40	35.05	5.29	20	22.42	35.04	5.28	24.15	378.0	0.076
50	20.12	34.97	5.61	30	21.90	34.98	5.58	24.25	368.1	0.113
65	18.51	34.79	5.73	50	20.12	34.97	5.61	24.72	323.0	0.182
80	18.14	34.83	5.64	75	18.70	34.95	5.55	25.08	288.8	0.259
99	17.35	34.69	5.64	100	17.30	34.69	5.64	25.22	275.8	0.329
124	16.00	34.48	5.78	150	13.26	34.06	5.78	25.64	236.0	0.458
152	13.12	34.05	5.76	200	11.52	34.04	5.47	25.95	206.0	0.569
199	11.55	34.04	5.48	250	10.81	34.08	5.35	26.11	190.9	0.668
262	10.66	34.09	5.33	300	10.10	34.10	5.15	26.25	177.8	0.760
351	9.24	34.09	4.78	400	8.31	34.05	4.47	26.50	153.9	0.926
466	7.00	33.99	4.01	500	6.42	33.99	3.71	26.72	133.0	1.069
620	4.84	34.02	1.98	600	5.10	34.01	2.38	26.90	115.9	1.194
837	3.88	34.27	0.41	700	4.22	34.14	0.85	27.10	97.0	1.300
1086	3.42	34.43	0.55	800	3.98	34.25	0.44	27.22	86.1	1.392
1390	1.75r	34.54	1.00	1000	3.50	34.42	0.45	27.40	69.0	1.547
										1.603

NORPAC
Station
81

0.574

1.090

NORPAC Station 82; STRANGER; August 25, 1955; 1557, 1612, 1820 GCT; 31°16'N, 150°07'W; sounding, 2900 fm; wind 030°, force 4; weather, cloudy; sea, rough; wire angle, 00°, 00°, 06°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	23.13	35.40	5.18	0	23.13	35.40	5.18	24.22	370.9	0.000	
10	23.13	35.45	5.17	10	23.13	35.45	5.17	24.26	367.2	0.037	
25	23.12	35.43	5.12	20	23.13	35.43	5.13	24.24	368.7	0.074	
55	19.62	35.08	5.62	30	22.70	35.39	5.12	24.33	360.1	0.110	
65	19.29	35.03	5.63	50	19.91	35.11	5.58	24.89	307.2	0.177	
75	19.03	35.03	5.56	75	19.03	35.03	5.56	25.06	291.3	0.252	
89	18.82	35.07	5.46	100	18.59	35.04	5.45	25.18	280.0	0.323	
110	18.35	34.99	5.46	150	17.47	34.88	5.30	25.33	265.0	0.460	
134	17.80	34.88	5.34	200	15.00	34.54	5.09	25.64	236.4	0.585	0.590
163	17.11	34.89	5.28	250	12.64	34.28	5.08	25.92	208.8	0.696	
217	13.66	34.34	5.05	300	11.52	34.23	5.15	26.10	191.5	0.796	
295	11.64	34.24	5.14	400	9.32	34.11	4.65	26.38	164.8	0.974	
403	9.24	34.10	4.62	500	7.45	34.00	4.10	26.58	145.9	1.130	1.153
545	6.48u	33.95u	3.65u	600	5.90	33.98	3.28	26.79	126.8	1.266	
719	4.66u	34.00u	2.46u	700	4.72	34.01	2.11	26.95	111.5	1.385	
				800	4.23	34.14	1.07	27.11	96.5	1.490	
				1000	3.67	34.34	0.33	27.32	76.0	1.662	1.723
0	23.15u	35.43u	5.12u	1200	3.20	34.43	0.47	27.44	65.3	1.803	
503	7.53u	34.02u	4.12u	1500	2.65	34.53	1.16	27.57	53.0	1.981	
672	4.89u	34.02u	1.89u	2000	2.00	34.61	1.72	27.68	41.8	2.218	
833	4.08	34.20	0.67	2500	1.70	34.67	2.33	27.75	35.5		
1072	3.47	34.38	0.31	3000	1.54	(34.69)	2.79	(27.78)	(32.8)		
1311	3.00	34.49	0.79								
1648	2.47	34.57	1.33								
2038	1.93	34.62	1.83								
2429	1.74	34.66	2.27								
2927	1.56	34.69	2.72								
3424	1.46	34.67r	3.21								

NORPAC
Station
82

NORFAC Station 83; STRANGER; September 6, 1955; 0216, 0300 GCT; 33°34'N, 117°54'W; sounding, 340 fm; wind 320°, force 4; weather, clear; sea, moderate; wire angle, 18°, 27°.

OBSERVED				INTERPOLATED				COMPUTED				
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	Δ'	Δ
0	21.16	33.60	5.68	0	21.16	33.60	5.68	23.41	448.0	0.000		
10	20.91	33.62	5.79	10	20.91	33.62	5.79	23.49	440.5	0.044		
29	14.25	33.51	6.43	20	17.70	33.57	6.35	24.27	366.0	0.085		
35	12.98	33.48	5.76	30	14.00	33.51	6.35	25.06	291.4	0.118		
44	12.15	33.46	5.29	50	11.50	33.47	4.92	25.51	247.8	0.172		
52	-	33.44	4.75	75	9.80	33.55	3.95	25.88	213.3	0.229		
61	10.46	33.49	4.42	100	9.40	33.71	3.40	26.07	195.4	0.280		
69	10.04	33.51	4.14	150	9.12	33.91	2.53	26.27	176.2	0.372		0.461
77	9.77	33.57	3.91	200	9.03	34.00	2.25	26.35	168.1	0.458		
86	9.57	33.63	3.68	250	8.98	34.10	1.85	26.44	159.7	0.540		
107	9.35	33.74	3.21	300	8.46	34.11	1.93	26.52	152.0	0.618		
132	9.26	33.88	2.48	400	7.48	34.22	1.02	26.76	129.5	0.759		
175	8.97	33.95	2.59	500	6.58	34.31	0.43	26.95	111.3	0.879		0.895
229	9.12	34.09	1.89									
324	8.16	34.11	1.96									
438	7.18	34.27	0.68									
562	5.93	34.33	0.28									

NORFAC
Station
83

NORPAC Station 84; STRANGER; September 5, 1955; 2156 GCT; 33°10'N, 118°24'W; sounding, 620 fm; wind 270°, force 4; weather, clear; sea, moderate; wire angle, 11°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	20.64	33.64	5.66	0	20.64	33.64	5.66	23.58	432.1	0.000	
11	20.41	33.64	5.80	10	20.51	33.64	5.75	23.61	429.0	0.043	
28	14.14	33.48	6.10	20	17.30	33.57	6.12	24.37	356.8	0.082	
38	12.56	33.49	5.47	30	14.00	33.48	6.09	25.03	293.8	0.115	
48	11.39	33.43	5.36	50	11.30	33.43	5.31	25.52	247.2	0.169	
58	-	33.46	4.67	75	9.85	33.53	3.75	25.85	216.0	0.227	
66	10.18	33.52	3.90	100	9.42	33.67	3.36	26.04	198.3	0.278	
75	9.86	33.53	3.75	150	9.10	33.98	2.53	26.33	170.1	0.370	
94	9.48	33.65	3.46	200	8.91	34.16	1.78	26.50	154.0	0.451	0.454
117	9.21	33.81	3.03	250	8.58	34.21	1.51	26.59	145.9	0.526	
145	9.10	33.95	2.53	300	8.18	34.24	1.28	26.68	137.2	0.597	
192	8.95	34.14	1.86	400	7.40	34.29	0.89	26.83	123.3	0.727	
258	8.48	34.22	1.47	500	6.65	34.32	0.40	26.95	110.7	0.844	
357	7.69	34.27	1.03	600	6.03	34.34	0.32	27.06	101.5	0.950	
483	6.76	34.32	0.45	700	5.51	34.36	0.30	27.13	94.0	1.048	
635	5.79	34.35	0.29	800	(5.00)	(34.40)	(0.28)	(27.22)	(85.8)	(1.138)	
788	5.06a	34.40	0.28								0.859

NORPAC
Station
84

a - Mean value taken between 5.03 and 5.09.

NORPAC Station 85; STRANGER; September 5, 1955; 1250 GCT; 32°38'N, 119°28'W; sounding, 500 fm; wind 310°, force 5; weather, overcast; sea, very rough; wire rough; wire angle, 04°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	18.02	33.64	5.56	0	18.02	33.64	5.56	24.24	368.5	0.000	
10	18.00	33.64	5.72	10	18.00	33.64	5.72	24.25	368.0	0.037	
29	14.42	33.53	6.20	20	17.70	33.63	5.86	24.32	361.5	0.073	
40	12.96	33.51	5.73	30	14.30	33.53	6.19	25.01	295.7	0.106	
50	12.05	33.48	5.33	50	12.05	33.48	5.33	25.42	256.8	0.161	
60	-	33.46	5.22	75	10.40	33.57	4.47	25.78	222.0	0.221	
70	10.74	33.53	4.77	100	9.43	33.70	3.50	26.05	197.1	0.274	
79	10.11	33.61	4.10	150	8.60	33.90	2.95	26.34	169.2	0.366	
98	9.44	33.69	3.53	200	8.10	34.03	2.45	26.52	152.2	0.446	0.449
123	9.15	33.77	3.17	250	7.70	34.16	1.68	26.68	136.8	0.519	
153	8.54	33.91	2.91	300	7.40	34.23	1.10	26.78	128.0	0.585	
203	8.02	34.05	2.34	400	6.88	34.31	0.55	26.92	114.2	0.706	
271	7.54	34.20	1.37	500	6.21	34.34	0.35	27.03	104.2	0.815	0.829
373	7.02	34.30	0.66	600	5.81	34.36	0.35	27.09	97.9	0.916	
500	6.21	34.34	0.35	700	5.45	34.39	0.36	27.16	91.7	1.011	
654	5.61	34.37	0.34	800	4.92	34.43	0.38	27.26	82.3	1.098	
809	4.85	34.43	0.39								

NORPAC
Station
85

NORPAC Station 86; STRANGER; September 5, 1955; 0155, 0307 GCT; 32°14'N; 120°38'W; sounding, 2000 fm; wind 300°, force 5; weather, overcast; sea, very rough; wire rough; wire angle, 22°, 16°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	16.54	33.44	5.87	0	16.54	33.44	5.87	24.45	349.5	0.000
9	16.51	33.42	5.78	10	16.50	33.42	5.77	24.44	349.9	0.035
24	15.91	33.40	5.97	20	16.22	33.41	5.83	24.49	344.6	0.070
51	14.02	33.38	6.04	30	15.45	33.39	6.03	24.66	329.5	0.103
60	-	33.32	6.00	50	14.08	33.38	6.05	24.94	302.0	0.166
68	12.07	33.34	5.79	75	11.50	33.35	5.60	25.43	256.1	0.236
81	11.11	33.37	5.42	100	10.01	33.43	4.45	25.74	226.1	0.296
98	10.03	33.42	4.50	150	8.80	33.68	3.58	26.14	188.2	0.400
120	9.65	33.57	4.24	200	8.07	33.94	2.78	26.46	158.2	0.487
145	8.94	33.66	3.71	250	7.50	34.04	2.08	26.62	143.1	0.562
193	8.12	33.92	2.89	300	7.02	34.09	1.50	26.72	132.7	0.631
362	6.51	34.16	0.94	400	6.18	34.18	0.74	26.91	115.5	0.755
495	5.50	34.23	0.47	500	5.29	34.24	0.40	27.04	103.2	0.864
680	4.69	34.38u	0.36	600	5.17	34.31	0.35	27.13	94.3	0.963
0	-	33.43u	5.92u	700	4.82	34.43	0.38	27.26	81.8	1.051
10	16.49u	33.42u	5.92u	800	4.43	34.47	0.45	27.34	74.2	1.129
463	5.53u	34.25u	0.46	1000	3.95	34.51	0.60	27.42	66.6	1.270
628	5.05	34.39u	0.34	1200	3.40	34.55	0.81	27.51	58.5	1.396
784	4.54	34.37u	0.42	1500	2.80	34.58	1.30	27.59	51.0	1.560
973	4.01	34.50	0.58	2000	2.10	34.63	2.04	27.69	40.8	1.790
1161	3.54	34.54	0.76							
1423	2.94	34.57	1.20							
1684	2.59	34.61	1.44							
1973	2.12	34.63	1.93							
2368	1.85a	34.67	2.31							

NORPAC
Station
86

a - Mean value taken between 1.82 and 1.88.

NORPAC Station 87; STRANGER; September 4, 1955; 1500, 1538 GCT; 31°25'N, 121°59'W; sounding, 2050 fm; wind 300°, force 4; weather, overcast; sea, rough; wire angle, 04°, 02°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	16.08	33.51	5.92	0	16.08	33.51	5.92	24.61	334.2	0.000
9	16.07	33.49	5.95	10	16.07	33.49	5.95	24.60	335.0	0.034
24	15.07	33.53	6.10	20	15.30	33.53	6.08	24.80	316.0	0.066
50	14.10	33.42	6.01	30	14.82	33.50	6.10	24.88	308.1	0.097
65	12.83	33.32	6.27	50	14.10	33.42	6.01	24.97	299.8	0.158
79	-	33.49	5.77	75	12.82	33.49	5.90	25.28	270.0	0.229
99	11.08	33.48	5.40	100	11.00	33.48	5.36	25.62	238.2	0.293
123	9.45	33.47	4.79	150	8.98	33.77	3.40	26.18	184.5	0.399
152	8.96	33.78	3.31	200	8.00	33.95	2.78	26.48	156.4	0.484
201	8.00	33.96	2.78	250	7.35	34.05	2.35	26.65	140.4	0.558
258	7.24	34.06	2.27	300	6.78	34.09	1.52	26.76	129.5	0.626
355	6.22	34.13	0.47	400	6.11	34.24	0.45	26.96	110.1	0.745
471	6.03	34.31	0.45	500	5.94	34.35	0.43	27.07	99.6	0.850
625	5.24	34.43	0.28	600	5.40	34.41	0.28	27.19	88.8	0.944
846	4.85	34.49	0.48	700	4.85	34.46	0.33	27.28	79.7	1.029
1110	3.55	34.52	0.82	800	4.50	34.48	0.42	27.34	74.0	1.105
1412	2.95	34.56	1.14	1000	3.70	34.52	0.78	27.46	63.5	1.243
				1200	3.35	34.53	0.92	27.50	59.4	1.366

NORPAC
Station
87

NORPAC Station 89; STRANGER; September 3, 1955; 0738 GCT; 29°34'N, 125°40'W; sounding, 2300 fm; wind 360°, force 4; weather, overcast; sea, very rough; wire rough; wire angle, 02°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	17.85	33.85	5.56	0	17.85	33.85	5.56	24.45	349.2	0.000		
10	17.82	33.86	5.63	10	17.82	33.86	5.63	24.46	347.9	0.035		
25	17.70	33.86	5.58	20	17.73	33.86	5.59	24.48	346.0	0.070		
49	17.68	33.86	5.59	30	17.70	33.86	5.59	24.49	344.6	0.104		
64	16.91	33.78	5.80	50	17.65	33.86	5.60	24.51	343.4	0.173		
78	16.60	33.97	5.85	75	16.66	33.93	5.84	24.80	316.5	0.255		
99	16.36	34.05	5.79	100	16.31	34.05	5.77	24.96	300.0	0.332		
123	15.27	33.91	5.71	150	13.57	33.74	5.47	25.32	265.5	0.475		
152	13.43	33.73	5.44	200	10.12	33.59	4.76	25.86	215.4	0.595		
200	10.12	33.59	4.76	250	8.79	33.81	3.96	26.24	178.6	0.694		
263	8.54	33.87	3.77	300	7.82	33.95	3.13	26.50	154.3	0.777		
355	6.88	34.04	2.29	400	6.39	34.08	1.70	26.81	125.3	0.917		
470	5.82	34.14	0.98	500	5.62	34.16	0.80	26.96	110.5	1.035		
624	4.98	34.27	0.49	600	5.10	34.25	0.57	27.09	98.3	1.139		
843	4.17	34.41	0.49	700	4.60	34.33	0.49	27.22	86.3	1.231		
1093	3.53	34.50	0.88	800	4.25	34.39	0.49	27.30	78.3	1.314		
1400	2.95	34.58	1.17	1000	3.70	34.48	0.75	27.43	66.2	1.458		
				1200	3.29	34.53	0.99	27.51	58.4	1.583		

NORPAC
Station
89

NORPAC Station 90; STRANGER; September 2, 1955; 0410 GCT; 29°17'N, 129°45'W; sounding, 2700 fm; wind 040°, force 6; weather, overcast; sea, high; wire angle, 20°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	18.80	34.27	5.52	0	18.80	34.27	5.52	24.53	340.8	0.000
9	18.81	34.28	5.46	10	18.80	34.28	5.46	24.53	340.6	0.034
28	18.80	34.27	5.43	20	18.80	34.28	5.45	24.53	340.6	0.068
55	18.77	34.29	5.46	30	18.80	34.28	5.44	24.53	340.6	0.102
69	18.29	34.45	5.72	50	18.80	34.29	5.45	24.56	339.0	0.170
88	16.88	34.18	5.79	75	16.60	33.99	6.57	24.86	310.5	0.251
109	16.24	34.14	5.72	100	16.20	34.08	5.89	25.02	295.1	0.327
136	14.88	33.85	5.84	150	14.47	33.83	5.80	25.20	277.6	0.470
162	14.11	33.81	5.72	200	11.30	33.66	5.21	25.70	230.3	0.597
214	10.47	33.64	5.08	250	9.52	33.82	4.70	26.12	189.8	0.702
285	8.83	33.98	4.37	300	8.50	33.99	4.17	26.43	160.9	0.790
378	6.95	34.02	3.13	400	6.60	34.03	2.87	26.73	132.3	0.937
500	5.49	34.08	1.29	500	5.49	34.08	1.29	26.91	115.1	1.060
660	4.60	34.25	0.47	600	4.89	34.18	0.61	27.06	100.7	1.168
891	3.94	34.40	0.53	700	4.48	34.27	0.48	27.18	90.1	1.263
1152	3.41	34.49	0.98	800	4.20	34.33	0.49	27.26	82.2	1.349
1464	2.86	34.57	1.27	1000	3.72	34.44	0.70	27.40	69.4	1.501
				1200	3.35	34.51	1.02	27.48	60.8	1.631

NORPAC
Station
90

NORPAC Station 91; STRANGER; August 31, 1955; 0719, 0842 GCT; 29°17'N, 132°57'W; sounding, 2300 fm; wind 080°, force 5; weather, overcast; sea, very rough; wire rough; wire angle, 19°, 25°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	19.30	34.29	5.62	0	19.30	34.29	5.62	24.42	351.5	0.000
10	19.28	34.27	5.56	10	19.28	34.27	5.56	24.42	352.3	0.035
24	19.26	34.29	5.30	20	19.26	34.28	5.40	24.43	351.0	0.070
53	19.14	34.36	5.45	30	19.22	34.30	5.36	24.45	349.2	0.105
62	19.05	34.35	5.48	50	19.18	34.35	5.40	24.50	343.9	0.175
71	18.50	34.42	5.35	75	18.32	34.45	5.39	24.79	317.1	0.257
85	18.04	34.50	5.47	100	17.72	34.52	5.43	24.99	297.8	0.334
103	17.68	34.52	5.41	150	16.61	34.38	4.99	25.15	282.1	0.479
125	17.19	34.47	5.31	200	13.74	33.97	5.16	25.46	252.9	0.612
153	16.55	34.37	4.95	250	10.40	33.85	4.49	26.01	201.0	0.726
201	13.70	33.96	5.17	300	8.60	33.92	3.97	26.36	167.3	0.818
271	9.34	33.87	4.19	400	6.99	34.02	3.01	26.67	137.8	0.970
370	7.41	34.01	3.45	500	5.72	34.09	1.55	26.89	117.3	1.098
499	5.75	34.09	1.59	600	5.02	34.18	0.79	27.04	103.2	1.208
684	4.62	34.29	0.49	700	4.59	34.30	0.51	27.20	88.0	1.304
				800	4.20	34.38	0.70	27.30	78.0	1.387
1	19.25u	34.31u	5.04u	1000	3.79	34.50	0.83	27.43	66.0	1.531
9	19.23u	34.31u	5.31u	1200	3.33	34.55	0.97	27.51	57.7	1.654
447	6.27	34.02	1.95	1500	2.88	34.60	1.38	27.60	50.0	1.816
606	5.01	34.18	0.83	2000	2.02	34.64	1.76	27.70	40.0	2.041
756	4.37	34.35	-							
935	3.96	34.47	0.80							
1114	3.58	34.53	0.87							
1365	3.05	34.58	1.20							
1618	2.72	34.61	1.42							
1898	2.23	34.63	2.11u							
2281	1.86	34.65	1.83							

NORPAC
Station
91

0.617

1.120

1.586

NORPAC Station 92; STRANGER; September 15, 1955; 0450 GCT; 31°42'N, 116°42.5'W; sounding, 90 fm; wind 155°, force 1; weather, missing; sea, slight; wire angle, 00°.

Z	OBSERVED			INTERPOLATED				COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	18.29	33.52	-	0	18.29	33.52	-	24.08	383.8	
10	14.70	33.45	-	10	14.70	33.45	-	24.86	309.9	
				20	13.8a					
				30	12.8					
				50	11.9					
				75	10.7					
				100	10.2					

NORPAC Station 93; STRANGER; September 15, 1955; 0910 GCT; 31°30.5'N, 117°06'W; sounding, 600 fm; wind 325°, force 2; weather, missing; sea, slight; wire angle, 12°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	21.02	33.61		0	21.02	33.61		23.45	444.1	0.000
10	19.60	33.57		10	19.60	33.57		23.59	431.0	0.043
24	15.48	33.46		20	16.50	33.49		24.49	345.4	0.081
48	13.04	33.42		30	14.86	33.44		24.83	313.2	0.114
50p	12.99	33.38u		50	12.90	33.42		25.22	276.3	0.172
55p	12.49	33.39u		75	11.40	33.42		25.49	249.8	0.238
63	11.94	33.41		100	10.20	33.51		25.78	223.2	0.297
68p	11.72	33.51u		150	8.98	33.89		26.28	175.2	0.394
78	-	33.42		200	8.50	34.00		26.44	160.4	0.478
98	10.26	33.49		250	8.15	34.07		26.54	150.0	0.556
124p	9.24	33.80		300	7.77	34.17		26.69	136.4	0.627
254p	8.10	34.08		400	7.10	34.31		26.88	118.0	0.754
375p	7.26	34.29		500	6.50	34.34		26.99	107.8	0.867
662p	5.40	34.38		600	5.79	34.37		27.10	97.0	0.970
982p	4.18	34.47		700	5.10	34.40		27.21	86.8	1.062
				800	4.70	34.43		27.28	80.0	1.145

NORPAC
Station
93

NORPAC Station 94; STRANGER; September 15, 1955; 1852, 2020 GCT; 31°01'N, 118°07'W; sounding, 850 fm; wind 300°, force 4; weather, cloudy; sea, rough; wire angle, 08°, missing.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	21.03	33.66		0	21.03	33.66		23.49	441.0	0.000		
10	21.04	33.65		10	21.04	33.65		23.48	441.5	0.044		
30	17.15	33.53		20	21.05	33.65		23.47	442.0	0.088		
61	12.20	33.44		30	17.15	33.53		24.37	356.7	0.128		
76	11.52	33.43		50	13.27	33.45		25.17	280.8	0.192		
95	-	33.49		75	11.55	33.43		25.48	251.2	0.258		
				100	9.70	33.65		25.97	204.1	0.315		
110	9.26	33.73		150	8.82	33.97		26.33	170.0	0.407		0.490
139	8.89	33.91		200	8.10	34.03		26.52	152.0	0.486		
168	8.67	34.04		250	8.70	34.32		26.66	139.3	0.559		
225	8.96	34.31		300	8.10	34.31		26.74	131.3	0.627		
301	8.04	34.31		400	7.22	34.32		26.87	118.8	0.752		
402	7.20	34.32		500	6.38	34.39		27.05	102.1	0.862		0.877
540	6.07	34.76r		600	5.79	34.44		27.16	91.5	0.959		
716	5.43	34.47		700	5.45	34.47		27.22	85.5	1.048		
969p	4.39	34.31r		800	5.05	34.50		27.29	78.6	1.130		
1212p	3.52	34.56		1000	4.22	34.54		27.42	67.0	1.276		1.318
1485p	2.90a	34.56		1200	3.55	34.56		27.50	59.2	1.402		

NORPAC
Station
94

a - Mean value taken between 2.87 and 2.94.

NORPAC Station 95; STRANGER; September 16, 1955; 0650, 0920 GCT; 30°20.5'N, 119°27'W; sounding, 2100 fm; wind 335°, force 4; weather, missing; sea, rough; wire angle, 03°, 09°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	19.60	33.65	5.51	0	19.60	33.65	5.51	24.86	405.5	0.000	
10	19.62	33.68	5.50	10	19.62	33.68	5.50	24.87	403.8	0.040	
29	16.00	33.47	6.23	20	19.62	33.68	5.52	24.87	403.8	0.081	
53	14.25	33.39	5.90	30	16.00	33.47	6.24	24.60	334.8	0.118	
68	13.33	33.38	5.93	50	14.50	33.40	5.92	24.87	309.4	0.182	
78	-	33.46	5.52	75	12.70	33.39	5.78	25.23	274.8	0.255	
93	11.08	33.03	5.06	100	10.80	33.43	4.90	25.62	238.0	0.319	
117	10.18	33.48	4.46	150	9.25	33.73	3.25	26.01	201.3	0.427	
151	9.22	33.74	3.30	200	8.38	33.98	2.76	26.44	160.0	0.515	0.519
175	8.55	33.88	2.96	250	8.00	34.08	2.05	26.57	147.2	0.592	
235	8.16	34.06	2.19	300	7.30	34.14	1.50	26.72	133.3	0.662	
317	7.12	34.15	1.37	400	6.30	34.20	0.78	26.91	115.5	0.786	
429	6.09	34.22	0.66	500	5.70	34.29	0.45	27.06	101.4	0.894	0.910
582	5.29	34.34	0.34	600	5.21	34.35	0.32	27.16	91.8	0.991	
788	4.59a	34.43	0.45	700	4.90	34.41	0.35	27.24	84.0	1.079	
				800	4.58	34.43	0.45	27.30	78.5	1.160	
0	-	33.67u	5.42u	1000	3.98	34.52	0.60	27.43	66.0	1.305	1.349
498	5.76	34.28	0.48	1200	3.50	34.56	0.85	27.51	58.3	1.429	
573p	5.31	34.34	0.35	1500	2.75	34.60	1.33	27.61	48.8	1.590	
701p	4.88	34.41	0.34	2000	2.00	34.66	1.22	27.72	38.0	1.806	
879p	4.30	34.47	0.50								
1047p	3.84	34.53	0.66								
1282p	3.23	34.57	0.96								
1567p	2.60	34.60	1.33								
1882p	2.21	34.65	1.85								
2180p	1.88	34.67	-								
2622p	1.70	34.67	-								

NORPAC
Station
95

a - Mean value taken between 4.56 and 4.62.

NORPAC Station 96; STRANGER; September 16, 1955; 2035 GCT; 29°41'N, 120°43.5'W; sounding, 2050 fm; wind 335°, force 4; weather, partly cloudy; sea, moderate; wire angle, 10°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ
0	18.51	33.71		0	18.51	33.71		24.18	374.6	0.000
10	18.50	33.71		10	18.50	33.71		24.18	374.6	0.037
29	18.42	33.72		20	18.46	33.72		24.20	372.8	0.075
58	15.78	33.61		30	18.42	33.72		24.21	371.8	0.112
67	15.81	33.84		50	16.30	33.62		24.64	331.4	0.182
91	15.83	33.86		75	15.82	33.85		24.92	304.1	0.262
115	14.50	33.82		100	15.54	33.88		25.02	295.4	0.337
142	11.66	33.53		150	11.08	33.54		25.65	235.0	0.469
169	10.04	33.59		200	8.98	33.79		26.20	182.7	0.574
225	8.38	33.94		250	7.96	34.00		26.52	151.9	0.657
298	7.29	34.05		300	7.28	34.05		26.66	139.4	0.730
337p	6.87	34.07		400	6.30	34.14		26.86	120.2	0.860
395	6.34	34.13		500	5.78	34.23		27.00	106.9	0.974
523	5.65	34.25		600	5.42	34.29		27.09	98.2	1.076
933	4.30	34.49		700	5.09	34.36		27.18	89.5	1.170
1199	3.44	34.54		800	4.79	34.42		27.27	81.4	1.255
1513	2.84	34.60		1000	4.07	34.51		27.41	67.8	1.405
				1200	3.50	34.54		27.49	59.8	1.532
				1500	2.92	34.59		27.60	50.2	1.697
										0.579
										0.993
										1.454

NORPAC
Station
96

NORPAC Station 97; STRANGER; September 17, 1955; 1240, 1315, 1500 GCT; 28°44'N, 122°37'W; sounding, missing; wind 335°, force 3; weather, partly cloudy; sea, moderate; wire angle, 06°, missing, 23°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ
0	18.22	33.71	5.50	0	18.22	33.71	5.50	24.25	368.0	0.000
10	18.24	33.69	5.68	10	18.24	33.69	5.68	24.23	370.0	0.037
30	18.41	33.78	5.60	20	18.35	33.72	5.62	24.23	370.0	0.074
55	17.29	33.77	5.77	30	18.41	33.78	5.60	24.26	367.4	0.111
70	16.27	33.73	5.95	50	17.62	33.78	5.72	24.45	348.6	0.182
80	15.84	33.82	5.94	75	16.10	33.77	5.97	24.80	315.8	0.265
95	15.16	33.78	5.62	100	15.10	33.80	5.65	25.04	292.8	0.341
118	15.46	34.04	5.56	150	12.53	33.67	5.23	25.48	251.0	0.480
152	12.39	33.66	5.23	200	9.62	33.63	4.89	25.96	205.0	0.599
173p	11.00	33.57	5.05	250	8.35	33.85	3.77	26.34	169.3	0.687
175	10.85	33.58	5.06	300	7.62	34.01	3.13	26.57	147.5	0.766
222p	8.80	33.73	4.59	400	6.42	34.14	1.32	26.84	122.1	0.901
313p	7.42	34.04	2.91	500	5.85	34.26	0.63	27.01	105.8	1.015
438p	6.16	34.16u	1.02	600	5.20	34.32	0.35	27.13	94.0	1.115
608p	5.16	34.33u	0.36u	700	4.82	34.35	0.38	27.20	87.8	1.206
0	-	33.71	5.46u	800	4.37	34.44	0.50	27.33	75.5	1.287
9	18.22u	33.69u	5.47u	1000	3.88	34.49	0.72	27.42	67.0	1.430
255p	8.60u	33.77	4.05							
352p	6.94	34.09	1.96							
449	6.10	34.19u	0.94							
533p	5.71	34.29	0.50							
604	5.17	34.30u	0.41u							
662p	4.91	34.33	0.37							
754	4.53	34.42	0.41							
886p	4.16	34.46	0.59							
1130p	3.60	34.54	0.85							

NORPAC
Station
97

NORPAC Station 98; STRANGER; August 15, 1955; 0016, 0031, 0155 GCT; 27°26'N, 125°31'W; sounding, 2400 fm; wind 030°, force 6; weather, overcast; sea, high; wire angle, 15°, 15°, 18°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	19.4	34.19	5.54	0	19.4	34.19	5.54	24.32	361.5	0.000
9	19.32	34.21	5.50	10	19.32	34.21	5.51	24.36	357.6	0.036
24	19.32	34.42	5.51	20	19.32	34.21	5.51	24.37	357.3	0.072
53	18.83	34.17	5.61	30	19.26	34.22	5.52	24.38	355.8	0.108
68	18.06	34.16	5.63	50	18.95	34.18	5.57	24.43	350.9	0.178
82	17.46	34.10	5.34	75	17.70	34.12	5.40	24.69	325.6	0.263
108	16.59	34.04	5.59	100	17.00	34.08	5.47	24.83	312.8	0.342
132	15.61	34.00	5.28	150	14.43	33.86	5.25	25.23	274.5	0.490
161	13.81	33.78	5.21	200	10.80	33.63	4.81	25.77	223.5	0.614
212	10.03	33.61	4.59	250	8.83	33.78	3.86	26.21	182.0	0.715
265	8.52	33.85	3.66	300	7.89	33.95	3.08	26.49	155.0	0.800
364	7.02	34.06	2.14	400	6.60	34.09	1.74	26.78	127.5	0.941
488	5.76	34.14	1.01	500	5.62	34.15	0.92	26.94	111.8	1.060
654	4.77	34.30	0.42	600	5.02	34.23	0.49	27.09	98.2	1.166
878	4.20	34.47	0.57	700	4.55	34.39	0.45	27.26	81.7	1.255
1133	3.52	34.54	0.96	800	4.25	34.46	0.54	27.34	73.7	1.333
1459	2.93	34.00r	2.70r	1000	3.88	34.50	0.71	27.43	66.3	1.473
				1200	3.40	-	-			1.525

NORPAC
Station
98

NORPAC Station 99; STRANGER; August 16, 1955; 1614, 1638 GCT; 27°26'N, 128°34'W; sounding, 2550 fm; wind 345°, force 5; weather, overcast; sea, very rough; wire angle 09°, 10°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	18.84	34.14	5.64	0	18.84	34.14	5.64	24.43	351.4	0.000
10	18.83	34.10	5.70	10	18.83	34.10	5.70	24.40	354.1	0.035
25	18.82	34.11	5.58	20	18.82	34.11	5.63	24.40	353.6	0.071
56	18.80	34.14	5.63	30	18.81	34.12	5.63	24.42	352.2	0.106
69	18.22	34.07	5.74	50	18.80	34.14	5.63	24.43	350.9	0.176
85	17.47	34.08	5.90	75	17.87	34.06	5.82	24.61	334.2	0.262
110	17.11	34.17	5.64	100	17.75	34.33	5.67	24.84	311.5	0.343
134	16.61	33.96	5.51	150	15.83	33.75	5.48	24.85	311.0	0.499
164	15.02	33.59	5.47	200	11.80	33.57	5.71	25.53	245.9	0.639
				250	9.28	33.83	4.65	26.18	184.3	0.746
213	10.43	33.62	5.77	300	8.17	33.99	3.35	26.48	156.2	0.831
281	8.56	33.96	3.75	400	6.54	34.08	1.94	26.79	127.4	0.973
383	6.78	34.07	2.13	500	5.55	34.13	1.10	26.94	112.1	1.093
506	5.50	34.13	1.05	600	5.00	34.19	0.88	27.06	101.3	1.200
898	4.04	34.46	0.73	700	4.66	34.28	0.81	27.16	91.3	1.296
1164	3.43	34.54	0.98	800	4.40	34.35	0.76	27.25	83.0	1.383
				1000	3.80	34.50	0.81	27.43	66.0	1.532

NORPAC
Station
99

NORPAC Station 100; STRANGER; August 18, 1955; 0150, 0200, 0243 GCT; 27°26'N, 131°38'W; sounding, 2400 fm; wind 045°, force 4; weather, overcast; sea, rough; wire angle 14°, 16°, 22°.

OBSERVED			INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	19.7	34.40	5.45	0	19.7	34.40	5.45	24.41	353.0	0.000
10	19.61	34.35	5.61	10	19.61	34.35	5.61	24.39	355.0	0.035
25	19.53	34.38	5.48	20	19.58	34.37	5.53	24.42	351.9	0.071
53	18.18	-	-	30	19.53	34.38	5.47	24.44	349.8	0.106
68	17.81	34.33	5.73	50	18.72	34.36	5.60	24.63	331.9	0.174
82	17.36	34.30	5.76	75	17.61	34.32	5.74	24.86	310.0	0.254
105	16.74	34.29	5.74	100	16.86	34.30	5.75	25.03	293.7	0.330
129	16.35	34.25	5.60	150	15.38	34.14	5.47	25.25	273.2	0.472
156	14.92	34.09	5.45	200	11.29	33.76	4.98	25.78	222.4	0.596
206	10.94	33.76	4.89	250	9.28	33.92	3.99	26.25	177.6	0.696
269	8.90	33.97	3.66	300	8.56	34.08	3.02	26.49	154.7	0.780
362	8.08	34.18	1.43	400	7.71	34.19	1.30	26.70	134.5	0.924
484	6.72	34.20	0.98	500	6.55	34.20	0.98	26.88	118.0	1.050
627p	5.15	34.26	0.59	600	5.39	34.25	0.64	27.06	100.8	1.160
847p	4.28	34.43	0.38	700	4.71	34.33	0.48	27.20	87.5	1.254
				800	4.40	34.40	0.40	27.29	78.6	1.337

NORPAC
Station
100

0.601

1.071

NORPAC Station 101; STRANGER; August 19, 1955; 141.4 GCT; 27°26'N, 134°45'W; sounding, 2300 fm; wind 050°, force 3; weather, very cloudy; sea, rough; wire angle, 08°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	D	σ_t	Δ'	Δ'	Δ'
0	19.6	34.61	5.49	0	19.6	34.61	5.49	0	24.59	335.5	0.000	
10	19.60	34.63	5.59	10	19.60	34.63	5.59	10	24.61	334.3	0.034	
25	19.59	34.62	5.42	20	19.60	34.62	5.45	20	24.61	334.2	0.067	
50	19.68	34.80	5.50	30	19.61	34.66	5.44	30	24.63	331.9	0.100	
65	19.17	35.03	5.63	50	19.68	34.80	5.50	50	24.71	324.0	0.166	
79	18.24	34.78	5.55	75	18.40	34.81	5.58	75	25.05	291.9	0.243	
97	17.95	34.76	5.52	100	17.93	34.77	5.52	100	25.13	284.0	0.315	
124	17.94	34.87	5.52	150	17.68	34.82	5.48	150	25.23	274.8	0.454	
153	17.56	34.78	5.44	200	14.85	34.27	4.90	200	25.46	252.9	0.586	0.591
200	14.85	34.27	4.90	250	11.80	33.94	5.01	250	25.82	219.1	0.708	
257	11.42	33.92	5.03	300	9.88	33.96	4.79	300	26.18	184.0	0.809	
354	8.32	34.00	4.23	400	7.30	34.00	3.51	400	26.62	143.3	0.973	
468	6.13	34.00	2.61	500	5.78	34.01	2.26	500	26.83	123.4	1.106	1.128
622	4.92	34.18	0.83	600	5.00	34.14	1.10	600	27.02	105.1	1.220	
840	4.20	34.40	0.55	700	4.59	34.26	0.58	700	27.16	92.0	1.319	
1088	3.56	34.51	0.95	800	4.35	34.36	0.53	800	27.27	81.4	1.406	
1389	3.32	34.54	1.24	1000	3.72	34.49	0.79	1000	27.43	65.5	1.553	1.609
				1200	3.33	34.53	1.24	1200	27.49	59.5	1.678	

NORPAC
Station
101

NORPAC Station 103; STRANGER; August 21, 1955; 1129 GCT; 27°30.5'N, 140°49'W; sounding, 2640 fm; wind 045°, force 5; weather, overcast; sea, rough; wire angle, 06°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	21.81	35.40	5.13	0	21.81	35.40	5.13	24.60	335.0	0.000	
10	21.80	35.37	5.22	10	21.80	35.37	5.22	24.58	336.8	0.034	
25	21.78	35.37	5.16	20	21.78	35.37	5.14	24.58	336.8	0.067	
50	21.14	35.32	5.28	30	21.74	35.37	5.14	24.60	335.4	0.101	
65	20.47	35.26	5.47	50	21.14	35.32	5.28	24.72	323.2	0.166	
79	19.64	35.21	5.41	75	19.85	35.22	5.44	24.99	297.9	0.244	
100	19.18	35.16	5.46	100	19.18	35.16	5.46	25.12	285.4	0.317	
124	18.63	35.07	5.13	150	18.12	34.95	5.14	25.23	275.0	0.457	
154	18.02	34.93	5.17	200	14.74	34.38	5.06	25.58	242.3	0.586	0.591
206	14.38	34.33	5.04	250	12.03	34.20	5.05	25.98	203.6	0.697	
265	11.51	34.18	5.07	300	10.70	34.14	4.97	26.19	184.1	0.794	
356	9.49	34.09	4.61	400	8.40	34.08	4.13	26.51	152.6	0.962	
472	6.62	34.08	3.36	500	6.22	34.08	3.02	26.83	123.4	1.100	1.122
626	5.01	34.11	1.25	600	5.18	34.10	1.58	26.97	109.7	1.216	
844	3.98	34.34	0.54	700	4.55	34.17	0.88	27.09	97.7	1.320	
1092	3.41	34.52	0.93	800	4.06	34.31	0.55	27.25	82.7	1.410	
1392	3.33	34.51	1.43	1000	3.55	34.45	0.80	27.42	66.8	1.560	1.616
				1200	3.34	34.50	1.23	27.48	61.2	1.688	

NORPAC
Station
103

NORPAC Station 104; STRANGER; August 22, 1955; 0925, 1000, 1225, 1330 GCT; 27°28'N, 144°00'W; sounding, 2400 fm; wind 045°, force 6; weather, overcast; sea, rough; wire angle, 13°, 13°, 18°, 18°, 20°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	
0	22.23	35.43	5.26	0	22.23	35.43	5.26	24.50	344.1	0.000		
10	22.26	35.45	5.19	10	22.26	35.45	5.19	24.50	343.9	0.034		
24	22.22	35.43	5.07	20	22.22	35.43	5.05	24.50	344.0	0.069		
49	22.22	35.41	5.12	30	22.22	35.43	5.10	24.50	344.4	0.103		
58	22.17	35.41	5.00	50	22.22	35.41	5.13	24.49	344.8	0.173		
68	20.40	35.32	5.45	75	20.16	34.29	5.49	24.96	300.6	0.254		
78	20.02	35.27	5.49	100	19.43	35.20	5.37	25.08	289.1	0.318		
63p	21.06	35.44	5.27	150	18.25	35.03	5.20	25.26	272.0	0.460	0.598	
140p	18.45	35.07	5.20	200	16.15	34.51	4.98	25.36	262.8	0.593		
218p	14.90	34.25	4.88	250	13.01	34.13	4.78	25.74	226.1	0.716		
323p	10.02	34.06	4.71	300	10.80	34.07	4.74	26.11	191.2	0.820		
469p	6.93u	34.02	3.45u	400	8.28	34.04	4.10	26.50	154.6	0.993		
592p	5.50	34.09	1.09u	500	6.62	34.03	2.84	26.73	132.5	1.136	1.159	
				600	5.40	34.10	1.30	26.94	112.8	1.259		
				700	4.65	34.19	0.55	27.10	97.5	1.364		
				800	4.20	34.31	0.48	27.24	84.0	1.455		
				1000	3.62	34.46	0.64	27.42	67.2	1.606	1.664	
464	7.22u	34.02	3.22u	1200	3.27	34.53	1.05	27.51	58.4	1.732		
633	5.08	34.12	1.12u	1500	2.75	34.59	1.45	27.61	49.2	1.893		
790	4.25	34.29	0.47	2000	2.10	34.65	1.90	27.71	39.2	2.114		
977	3.68	34.43	0.58									
1084	3.56	34.50	0.87									
1345	2.99	34.57	1.27									
1608	2.56	34.61	1.57									
1897	2.12	34.61u	1.84									
2293	1.85	34.67	2.03									

NORPAC
Station
104

NORPAC Station 105; STRANGER; August 23, 1955; 1107 GCT; 27°28'N, 146°56.5'W; sounding, 2850 fm; wind 080°, force 7; weather, partly cloudy; sea, very rough; wire rough; wire angle, 05°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	22.51	35.48	5.26	0	22.51	35.48	5.26	24.46	348.2	0.000
10	22.52	35.48	5.18	10	22.52	35.48	5.18	24.45	348.6	0.035
25	22.50	35.48	5.12	20	22.50	35.48	5.12	24.46	348.0	0.070
50	22.32	35.49	-	30	22.48	35.48	5.11	24.47	346.7	0.104
65	22.25	35.53	5.13	50	22.32	35.49	5.12	24.52	342.5	0.173
80	20.73	35.32	5.48	75	21.20	35.40	5.38	24.76	319.4	0.256
99	19.86	35.07	5.30	100	19.82	35.07	5.29	24.88	308.2	0.334
124	18.82	35.24u	5.17	150	17.99	34.94	5.24	25.25	273.4	0.479
154	17.84	34.92	5.23	200	15.28	34.49	4.66	25.53	246.2	0.609
202	15.22	34.48	4.64	250	12.42	34.18	4.87	25.88	212.8	0.724
265	11.88	34.14	4.90	300	11.02	34.13	4.84	26.11	191.2	0.825
356	9.74	34.14	4.70	400	8.75	34.10	4.46	26.47	156.6	0.999
471	7.10	34.01	3.82	500	6.62	34.01	3.53	26.71	134.0	1.144
626	5.05	34.09	1.57	600	5.38	34.07	2.08	26.92	114.0	1.268
843	4.01	34.33	0.44	700	4.60	34.17	0.90	27.09	98.4	1.374
1092	3.50	34.49	0.90	800	4.20	34.28	0.48	27.22	86.2	1.467
1395	2.93	34.58	1.47	1000	3.70	34.44	0.70	27.40	69.3	1.622
				1200	3.30	34.52	1.05	27.50	59.4	1.751

NORPAC
Station
105

NORPAC Station 106; STRANGER; August 24, 1955; 0835, 1021, 1138 GCT; 27°25'N, 150°00'W; sounding, 2800 fm; wind 100°, force 6; weather, slight rain showers; sea, very rough; wire angle, 07°, 16°, 10°

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	AD'	AD
0	23.62	35.30	5.11	0	23.62	35.30	5.11	24.00	391.8	0.000	
10	23.62	35.32	5.03	10	23.62	35.32	5.03	24.02	390.5	0.039	
25	23.63	35.31	5.08	20	23.65	35.31	5.05	24.01	391.0	0.078	
55	23.62	35.31	4.97	30	23.66	35.31	5.02	24.01	391.0	0.117	
65	22.21	35.33	5.51	50	23.66	35.31	4.98	24.03	389.4	0.196	
75	21.23	35.31	5.55	75	21.23	35.31	5.55	24.68	326.8	0.285	
90	20.44	35.23	5.48	100	20.00	35.19	5.30	24.92	303.8	0.364	
109	19.63	35.16	5.14	150	18.38	35.01	5.13	25.21	277.4	0.509	
134	18.84	35.08	5.03	200	15.88	34.57	5.10	25.46	252.8	0.641	0.646
163	17.97	34.93	5.24	250	13.44	34.31	4.91	25.78	222.0	0.760	
216	14.87	34.42	4.97	300	11.70	34.21	4.97	26.06	196.5	0.865	
291	11.96	34.22	4.97	400	9.27	34.09	4.63	26.38	165.5	1.046	
396	9.37	34.09	4.65	500	7.22	34.00	4.10	26.62	142.7	1.200	
534	6.58	33.97	4.08	600	5.75	33.98	2.92	26.81	125.3	1.334	
724	4.44	34.13	1.03	700	4.75	34.09	1.32	27.01	106.1	1.449	
				800	4.14	34.20	0.90	27.16	91.2	1.548	
0	23.60u	35.28u	5.04u	1000	3.58	34.40	0.45	27.37	71.8	1.711	
9	23.56u	35.28u	4.99u	1200	3.16	34.53	1.03	27.52	57.3	1.840	
482	7.70u	34.02	4.14	1500	2.60	34.57	1.60	27.60	49.5	2.000	
649	5.24	34.02	2.15	2000	1.95	34.59	2.00	27.68	42.5	2.230	
808	4.15	34.21	0.90								
994	3.61	34.39	0.42								
1181	3.18	34.52	1.00								
1442	2.72	34.57	1.44								
1708	2.41	34.58	1.72								
2046	1.95	34.60	2.05								
2343	1.74	34.62	2.38								

NORPAC
Station
106

NORPAC Station 107; STRANGER; September 21, 1955; 1053 GCT; 29°50'N, 115°52'W; sounding, 50 fm; wind 340°, force 3-4; weather, obscured; sea, moderate; wire angle, 02°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	16.87	33.51	6.01	0	16.87	33.51	6.01	24.42	351.8	0.000
10	16.88	33.50	6.07	10	16.88	33.50	6.07	24.41	352.9	0.035
15	15.59	33.48	6.43	20	14.80	33.46	6.30	24.85	311.1	0.068
25	14.11	33.44	6.15	30	13.30	33.41	5.90	25.13	284.4	0.098
34	12.58	33.40	5.69	50	10.90	33.48	4.40	25.64	236.1	0.150
43	11.80	33.42	5.21	75	9.88	33.73	2.80	26.01	201.4	0.205
53	10.60	33.52	4.09							
67	9.86	33.64	3.50							
76	9.92	33.75	2.75							

NORPAC
Station
107

NORPAC Station 108; STRANGER; September 21, 1955; 0555, 0645 GCT; 29°31'N, 116°02'W; sounding, 900 fm; wind 340°, force 4; weather, obscured; sea, rough; wire angle, 32°, 32°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	19.44	33.60	5.60	0	19.44	33.60	5.60	23.85	405.6	0.000
10	19.44	33.60	5.61	10	19.44	33.60	5.61	23.85	405.6	0.041
25	17.04	33.51	6.01	20	18.00	33.54	5.91	24.17	375.9	0.080
50	13.81	33.47	6.16	30	16.37	33.50	6.05	24.53	341.2	0.116
62	12.53	33.40	5.72	50	13.81	33.47	6.16	25.07	290.4	0.179
76p	11.83	33.42	5.62	75	11.90	33.40	-	25.39	259.5	0.247
78	-	33.46	5.41	100	10.83	33.45	-	25.62	237.7	0.310
97	10.98	33.44	5.00							
99p	10.62r	33.42u	5.02u							
121	10.15	33.55	4.30							
143	10.12	33.83	2.87							
728	4.99	34.43	0.33							
948	3.92	34.51	0.62							
1229	3.26	34.55	0.98							
				800	4.70	34.45	0.35	27.30	78.4	
				1000	3.74	34.52	0.72	27.46	63.2	
				1200	3.34	34.55	0.92	27.51	57.8	

NORPAC
Station
108

NORPAC Station 109; STRANGER; September 21, 1955; 0050, 0155 GCT; 29°35'N, 116°20.5'W; sounding, 1275 fm; wind 330°, force 4; weather, cloudy; sea, moderate; wire angle, 21°, 21°.

Z	OBSERVED				INTERPOLATED				COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD	σ _t	Δ'	ΔD
0	20.91	33.75	5.29	0	20.91	33.75	5.29	23.59	431.0	0.000	23.59	431.0	0.000
10	20.94	33.75	5.28	10	20.94	33.75	5.28	23.58	432.0	0.043	23.58	432.0	0.043
28	17.69	33.55	5.78	20	19.70	33.66	5.45	23.74	416.7	0.085	23.74	416.7	0.085
57	14.42	33.39	6.18	30	17.50	33.54	5.80	24.29	363.8	0.124	24.29	363.8	0.124
70	13.46	33.39	5.99	50	15.02	33.42	6.13	24.77	318.9	0.192	24.77	318.9	0.192
91	-	33.39	5.56	75	13.10	33.39	5.85	25.15	282.5	0.267	25.15	282.5	0.267
108	10.61	33.45	4.64	100	11.18	33.42	4.95	25.54	245.5	0.333	25.54	245.5	0.333
130p	9.96r	33.72r	3.39r	150	10.35	33.99	2.05	26.12	190.0	0.441	26.12	190.0	0.441
134	9.82	33.64	3.70	200	10.30	34.27	0.70	26.35	168.1	0.530	26.35	168.1	0.530
153	10.43	34.05	1.68	250	9.68	34.34	0.47	26.51	153.0	0.611	26.51	153.0	0.611
190	10.42	34.25	1.08	300	9.79	34.49	0.49	26.65	140.0	0.684	26.65	140.0	0.684
243	9.74	34.32	0.44	400	7.52	34.32	0.45	26.83	123.0	0.816	26.83	123.0	0.816
311	9.50	34.52	0.44	500	(6.50)	(34.35)	(0.46)	(27.00)	(107.2)	(0.930)	(27.00)	(107.2)	(0.930)
331p	7.74r	34.29r	1.15r										
405	7.41	34.31	0.85u										
495	6.58	34.34	0.45										

NORPAC
Station
109

NORPAC Station 110; STRANGER; September 20, 1955; 0830, 0915, 1135, 1300 GCT; 28°56'N, 117°38'W; sounding, 2050 fm; wind 330°, force 3; weather, obscured; sea, rough; wire angle, 33°, 34°, 37°, missing.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	20.62	33.68	5.32	0	20.62	33.68	5.32	23.61	429.0	0.000	
8	20.64	33.68	5.24	10	20.65	33.68	5.25	23.61	429.5	0.043	
26	17.89	33.53	5.66	20	19.50	33.61	5.40	23.86	405.4	0.085	
46	15.08	33.40	5.99	30	17.20	33.49	5.75	24.33	360.0	0.123	
59	14.18	33.39	5.88	50	14.80	33.39	5.95	24.80	316.0	0.191	
				75	13.00	33.47	5.51	25.23	274.8	0.264	
60	14.12	33.39	5.97u	100	11.35	33.61	3.65	25.65	234.5	0.328	
69	13.47	33.48	5.69	150	9.50	34.02	2.79	26.30	173.5	0.432	0.519
84	12.28	33.44	5.23	200	8.62	34.04	2.65	26.45	159.0	0.515	
106	11.05	33.66	3.31	250	7.90	34.08	2.10	26.61	143.8	0.591	
122	10.39	33.72	3.15	300	7.18	34.10	1.78	26.71	134.0	0.661	
154	9.20	34.00	2.78	400	6.46	34.22	0.90	26.90	116.4	0.786	
199p	8.62	34.04	2.65	500	6.02	34.33	0.40	27.05	102.2	0.895	0.911
211	8.84	34.18	1.83	600	5.50	34.35	0.35	27.12	94.6	0.994	
260p	7.66	34.06	2.14	700	4.95	34.39	0.40	27.22	85.9	1.084	
390p	6.55u	34.20	0.99u	800	4.60	34.44	0.45	27.30	78.2	1.166	
				1000	3.95	34.50	0.68	27.41	67.5	1.312	1.356
0	20.83u	33.69u	5.38u	1200	3.37	34.54	0.95	27.51	58.2	1.433	
8	20.79u	33.68	5.51u	1500	2.85	34.61	1.35	27.61	48.8	1.598	
392	6.52	34.21	1.07								
525	5.92	34.34	0.38								
654	5.19	34.36	0.38								
809	4.60	34.45	0.46								
966	4.04	34.49	0.63								
1191	3.39	34.54	-								
1421	3.00	34.60	1.19								
1520	2.79	34.61	1.34								
1877	2.21	34.65	1.92								

NORPAC
Station
110

NORPAC Station 111; STRANGER; September 19, 1955; 0230 GCT; 27°56'N, 119°35'W; sounding, 2075 fm; wind 345°, force 3; weather, missing; sea, rough; wire angle, 09°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	
0	19.63	33.62	5.50	0	19.63	33.62	5.50	23.83	408.1	0.000		
10	19.64	33.61	5.41	10	19.64	33.61	5.41	23.81	409.9	0.041		
30	17.79	33.57	5.89	20	19.60	33.61	5.40	23.83	408.1	0.082		
60	15.56	33.51	5.90	30	17.79	33.57	5.89	24.25	368.1	0.121		
75p	14.70	33.48	5.90	50	16.15	33.53	6.00	24.60	334.5	0.191		
99p	12.97	33.43	5.74	75	14.70	33.48	5.90	24.88	307.5	0.271		
143p	10.20	33.57	4.39	100	12.96	33.43	5.74	25.21	276.8	0.344		
208p	9.53	34.19	1.94	150	9.82	33.60	4.10	25.91	210.0	0.465	0.565	
287p	9.09	34.42	0.62	200	9.37	34.02	3.70	26.31	172.0	0.561		
395p	7.59	34.36	0.49	250	9.40	34.40	2.30	26.61	144.0	0.640		
532p	6.35	34.38	0.25	300	8.98	34.42	0.61	26.69	136.0	0.710		
728p	5.28	34.44	0.30	400	7.50	34.46	0.47	26.87	119.4	0.837		
942p	4.28	34.49	0.50	500	6.56	34.37	0.30	27.01	106.0	0.950	0.968	
1197p	3.56	34.52	0.74	600	5.90	34.40	0.25	27.12	95.5	1.051		
				700	5.40	34.43	0.29	27.20	87.8	1.143		
				800	5.00	34.45	0.34	27.26	81.6	1.227		
				1000	4.10	34.50	0.55	27.40	68.7	1.378	1.425	
				1200	(3.55)	(34.52)	(0.75)					

NORPAC
Station
111

NORPAC Station 112; STRANGER; September 18, 1955; 0510, 0735, 0845 GCT; 26°53'N, 121°39'W; sounding, 2200 fm; wind 360°, force 2-3; weather, missing; sea, moderate; wire angle, 07°, 27°, 28°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	20.65	33.73	5.26	0	20.65	33.73	5.26	23.65	425.3	0.000	
10	20.66	33.80	5.24	10	20.66	33.80	5.24	23.69	421.0	0.042	
30	17.97	33.56	5.84	20	18.80	33.62	5.70	24.04	388.2	0.083	
56	16.96	33.78	5.90	30	17.97	33.56	5.84	24.20	372.8	0.121	
70	16.10	33.78	5.90	50	17.25	33.74	5.90	24.51	342.6	0.192	
80	15.75	33.75	5.87	75	15.90	33.76	5.90	24.84	312.1	0.274	
95	15.10	33.69	5.72	100	13.90	33.39	5.95	25.00	296.8	0.350	
118	13.67	33.58	5.45	150	10.42	33.78	3.73	25.94	207.0	0.480	
150	10.42	33.78	3.73	200	8.70	34.15	(2.25)	26.52	151.9	0.569	0.573
172	9.37	34.11	2.36a	250	8.55	34.31	(2.07)	26.67	137.5	0.642	
226	8.78	34.26	3.49a	300	8.02	34.34	(1.40)	26.77	128.0	0.708	
303	7.98	34.34	0.62a	400	6.98	34.31	(0.67)	26.90	116.0	0.830	
330p	7.72	34.30u	0.35u	500	6.22	34.37	0.45	27.05	101.9	0.939	0.956
408	6.85	34.31	1.37u	600	5.62	34.41	0.35	27.15	92.0	1.036	
555	5.83	34.39	1.09u	700	5.00	34.46	0.32	27.27	81.0	1.122	
				800	4.55	34.50	0.49	27.35	73.0	1.199	
0	20.55u	33.75u	5.23u	1000	3.91	34.54	0.70	27.45	64.0	1.336	1.381
10	20.52u	33.77u	5.28u	1200	3.38	34.56	0.85	27.52	56.8	1.457	
452	6.54	34.35	0.53	1500	2.83	34.61	1.25	27.61	48.6	1.615	
613	5.50	34.42	0.33	2000	2.10	34.67	2.00	27.73	37.8	1.831	
769	4.72	34.49	0.39								
904	4.24	34.52	0.64								
1082	3.71	34.60u	0.71								
1329	3.10	34.58	1.05								
1578	2.75	34.63	1.33								
1861	2.24	34.66	1.79								
2245	1.90	34.69	2.28								

NORPAC
Station
112

a - These two values possibly reversed.

NORPAC Station 113; STRANGER; August 14, 1955; 0346, 0526 GGT; 25° 34.5'N, 124° 21'W; sounding, 2500 fm; wind 045°, force 5; weather, overcast; sea, high; wire angle, 11°, 22°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	19.6	34.13	5.53	0	19.6	34.13	5.53	24.22	370.6	0.000	
10	19.56	34.11	5.48	10	19.56	34.11	5.48	24.22	371.0	0.037	
23	19.49	34.16	5.60	20	19.52	34.15	5.55	24.26	367.2	0.074	
51	18.86	34.11	5.62	30	19.42	34.16	5.62	24.29	364.0	0.110	
61	17.95	34.04	5.75	50	18.90	34.11	5.62	24.39	354.7	0.183	
66p	17.72	34.00u	5.83	75	17.46	34.01	5.87	24.67	328.0	0.268	
69	17.63	34.02	5.88	100	16.96	33.99	5.76	24.77	318.7	0.349	
84	17.18	34.00	5.77	150	15.47	33.96	5.39	25.09	288.2	0.500	
103	16.93	33.99	5.76	200	12.38	33.86	4.81	25.65	234.9	0.631	0.636
125	17.02	34.22	5.62	250	9.57	33.87	4.37	26.16	185.9	0.736	
139p	16.28	34.08	5.47	300	8.08	33.92	3.75	26.44	160.5	0.823	
151	15.35	33.95	5.35	400	6.35	34.03	2.30	26.77	128.4	0.967	
248p	9.60	33.87	4.37	500	5.98	34.25	0.87	27.00	107.5	1.085	1.107
404p	6.26	34.04	2.22	600	5.73	34.37	0.40	27.11	96.0	1.187	
				700	5.37	34.41	0.36	27.19	89.0	1.280	
				800	4.70	34.44	0.48	27.29	79.4	1.364	
				1000	4.31	34.47	0.60	27.37	72.4	1.516	1.570
				1200	3.58	34.54	0.91	27.49	60.1	1.648	
				1500	2.90	34.59	1.41	27.60	50.0	1.813	
0	19.54u	34.09u	6.00u								
9	19.58u	34.11u	5.63u								
462	6.07	34.14	1.32								
623	5.67	34.38	0.36								
779	4.80	34.43	0.44								
964	4.42	34.29r	0.75r								
1148	3.73	34.53	0.84								
1404	3.11	34.58	1.21								
1660	2.54	34.61	1.64								
1942	2.12	34.61	2.01								
2329	1.89	34.23r	3.05r								

NORPAC
Station
113

NORPAC Station 114; STRANGER; August 15, 1955; 1931, 2111 GCT; 25°34'N, 127°21.5'W; sounding, 2300 fm; wind 345°, force 5; weather, overcast; see, rough; wire angle, 12°, 15°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	$\Delta\sigma_t$	$\Delta\Delta$
0	19.5	34.31	5.47	0	19.5	34.31	5.47	24.38	355.8	0.000	
10	19.50	34.27	5.51	10	19.50	34.27	5.51	24.36	357.6	0.036	
24	19.48	34.31	5.44	20	19.47	34.30	5.48	24.39	355.2	0.071	
55	19.02	34.47	5.66	30	19.50	34.35	5.45	24.42	352.0	0.107	
64	18.80	34.52	5.68	50	19.33	34.51	5.48	24.58	336.6	0.176	
73	18.78	34.56	5.65	75	18.75	34.56	5.65	24.77	318.8	0.258	
89	17.40	34.26	5.66	100	17.00	34.18	5.65	24.91	305.4	0.336	
108	17.43	34.33	5.63	150	17.30	34.61	5.50	25.17	280.9	0.483	
133	17.80	34.63	5.54	200	13.30	34.02	5.15	25.60	240.0	0.613	0.618
162	16.92	34.57	5.47	250	9.82	33.96	4.48	26.20	183.2	0.719	
215	11.76	33.87	5.02	300	8.22	34.03	3.68	26.50	154.5	0.804	
290	8.48	34.02	3.80	400	6.45	34.06	2.25	26.77	128.2	0.945	
393	6.54	34.05	2.46	500	6.00	34.24	0.70	26.99	108.2	1.063	1.084
532	5.85	34.25	0.65	600	5.86	34.31	0.60	27.07	99.6	1.167	
722	5.25	34.07r	1.87r	700	5.37	34.40	0.37	27.19	89.3	1.262	
				800	4.82	34.45	0.50	27.28	80.0	1.346	
				1000	4.02	34.51	0.79	27.41	68.0	1.494	1.547
0	19.7u	34.31	5.56u	1200	3.47	34.54	0.99	27.49	59.6	1.622	
487	6.26u	34.22	0.91	1500	2.75	34.60	1.45	27.62	48.4	1.784	
657	5.47	34.38	0.36	2000	2.15	34.64	2.10	27.69	40.8	2.007	
815	4.76	34.03r	3.42r	2500	1.73	34.64	2.48	27.73	37.5		
1050	3.88	34.51	0.84	3000	1.55	34.65	2.91	27.75	35.4		
1285	3.23	34.56	1.08	4000	(1.50)	(34.67)	(3.39)	(27.77)	(33.9)		
1619	2.65	34.61	1.50								
2005	2.06	34.64	2.15								
2396	1.79	34.63	2.38								
2889	1.59	34.68u	2.82								
3388	1.48	34.67	3.19								
3890	1.50	34.67	3.33								
3991	1.50	34.67	3.39								

NORPAC
Station
114

NORPAC Station 115; STRANGER; August 17, 1955; 0835 GCT; 25°39.5'N, 130°22'W; sounding, 2470 fm; wind 045°, force 5; weather, overcast; sea, very rough; wire rough; wire angle, 12°.

Z	OBSERVED			INTERPOLATED			COMPUTED		
	T	S	σ_t	D	T	S	σ_t	Δ'	ΔD
0	19.75	34.47	5.40	0	19.75	34.47	5.40	349.5	0.000
9	19.73	34.47	5.50	10	19.74	34.47	5.50	349.7	0.035
24	19.74	34.45	5.34	20	19.74	34.46	5.35	350.3	0.070
53	18.37	34.58	5.73	30	19.73	34.45	5.35	351.3	0.105
68	18.40	34.70	6.59	50	18.55	34.54	5.64	315.9	0.172
83	18.11	34.68	5.57	75	18.30	34.70	6.30	297.8	0.248
107	17.69	34.81	5.47	100	17.82	34.80	5.48	279.8	0.321
130	17.44	34.63	5.40	150	17.18	34.59	5.36	279.2	0.461
158	17.01	34.58	5.35	200	13.26	34.03	4.85	239.0	0.591
277	9.16	34.00	4.39	250	9.98	33.93	4.48	187.7	0.697
375	7.38	34.08	2.41	300	8.57	34.02	4.17	159.8	0.784
499	6.37	34.27	0.71	400	7.10	34.12	1.85	132.0	0.930
666	5.36	34.40	0.31	500	6.37	34.27	0.68	110.7	1.051
890	4.31	34.49	0.63	600	5.76	34.36	0.36	97.4	1.156
1145	3.61	34.55	0.86	700	5.19	34.42	0.35	85.9	1.247
1455	2.97	34.04r	4.06r	800	4.76	34.46	0.47	78.3	1.329
				1000	3.99	34.52	0.72	66.1	1.474
									1.526

NORPAC
Station
115

0.596

1.072

NORPAC Station 116; STRANGER; August 18, 1955; 1929, 2055 GCT; 25°32'N, 133°23'W; sounding, 2450 fm; wind 045°, force 4; weather, overcast; sea, rough; wire angle, 07°, 10°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	
0	20.1	34.77	5.52	0	20.1	34.77	5.52	24.58	336.8	0.000		
10	20.03	34.77	5.55	10	20.03	34.77	5.55	24.60	335.0	0.034		
25	20.00	34.72	5.39	20	20.01	34.72	5.37	24.57	338.0	0.067		
55	20.02	34.73	5.37	30	20.01	34.72	5.37	24.57	338.0	0.101		
65	20.02	34.75	5.35	50	20.02	34.73	5.37	24.58	337.1	0.168		
75	19.06	34.63	5.56	75	19.06	34.63	5.56	24.74	321.1	0.251		
89	18.51	34.65	5.58	100	18.41	34.70	5.40	24.95	300.8	0.328		
109	18.35	34.73	5.38	150	17.69	34.68	5.37	25.12	284.7	0.475		
133	17.94	34.69	5.42	200	14.90	34.22	5.08	25.42	257.2	0.610	0.615	
162	17.48	34.68	5.31	250	11.80	33.98	4.70	25.86	214.6	0.728		
216	13.84	34.08	5.04	300	9.28	34.00	3.50	26.31	172.0	0.825		
294	9.42	33.99	3.69	400	8.05	34.22	1.44	26.67	137.8	0.980		
401	8.05	34.22	1.44	500	6.75	34.22	0.82	26.86	119.8	1.109	1.132	
543	6.16	34.23	0.64	600	5.70	34.30	0.43	27.07	100.2	1.218		
565p	5.94u	34.22u	0.84u	700	5.33	34.36	0.36	27.16	92.0	1.315		
				800	4.80	34.42	0.47	27.26	82.0	1.402		
				1000	4.18	34.49	0.69	27.39	69.9	1.554	1.610	
0	20.03u	34.73u	5.41u	1200	3.60	34.55	0.92	27.49	59.8	1.683		
10	20.06u	34.71u	5.45u	1500	3.01	34.58	1.25	27.58	51.9	1.851		
490	6.89	34.22	0.88	2000	2.18	34.62	1.86	27.68	42.2	2.086		
661	5.51	34.34	0.36									
823	4.71	34.43	0.49									
1015	4.07	34.49	0.72									
1208	3.57	34.56	0.94									
1474	3.02	34.58	1.20									
1741	2.46	34.63	1.65									
2036	2.11	34.62	1.90									
2433	1.83	34.65	2.31									

NORPAC
Station
116

NORPAC Station 117; STRANGER; August 10, 11, 1955; 2247, 2258, 0045 GCT; 27°42'N, 115°35'W; sounding, 1500 fm; wind 350°, force 4; weather, cloudy; sea, moderate; wire angle, 07°, 07°, 06°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	$\Delta\Delta$
0	21.33	33.60	6.84	0	21.33	33.60	6.84	23.36	453.0	0.000	
10	20.68	33.64	5.98	10	20.68	33.64	5.98	23.57	433.2	0.044	
25	18.36	33.57	6.29	20	19.55	33.61	6.15	23.84	407.0	0.086	
55	12.12	33.49	5.40	30	17.10	33.54	6.22	24.40	354.3	0.124	
64	11.11	33.57	4.16	50	13.00	33.49	5.58	25.25	273.0	0.187	
74	10.82	33.68	3.58	75	10.80	33.69	3.55	25.82	219.4	0.249	
88	10.07	33.82	3.30	100	10.07	33.96	2.60	26.15	186.8	0.299	
107	10.06	34.00	2.39	150	9.90	34.14	2.20	26.32	171.4	0.389	
132	9.78	34.06	2.58	200	9.89	34.40	1.10	26.54	150.2	0.469	0.472
161	10.02	34.23	1.62	250	9.48	34.45	0.65	26.64	141.2	0.542	
				300	9.11	34.47	0.42	26.71	134.1	0.611	
216	9.71	34.41	0.85	400	8.14	34.44	0.27	26.84	122.1	0.739	
294	9.16	34.47	0.42	500	7.42	34.44	0.39	26.94	112.2	0.856	0.871
401	8.13	34.44	0.27	600	6.30	34.43	0.29	27.08	98.6	0.962	
545	6.82	34.42	0.29	700	5.75	34.43	0.30	27.15	92.0	1.057	
738	5.47	34.42	0.34	800	5.10	34.43	0.36	27.23	84.5	1.146	
				1000	4.10	34.52	0.55	27.41	67.5	1.298	1.342
0	21.34u	33.66u	5.47u	1200	3.50	34.56	0.83	27.51	58.3	1.424	
21	21.38u	33.67u	5.57u	1500	2.85	34.57	1.40	27.58	51.6	1.589	
489	7.52	34.44	0.39	2000	2.20	(34.65)	1.80	27.70	40.0	1.818	
662	5.96	34.43	0.29								
827	4.96	34.43	0.38								
1020	4.00	34.52	0.58								
1217	3.44	34.56	0.84								
1488	2.95	34.57	1.33								
1760	2.38	34.62	1.78								
2059	2.19	34.68u	1.83								
2462	1.85	34.67u	2.46								

NORPAC
Station
117

NORPAC Station 118; STRANGER; August 11, 1955; 0852, 0913, 0935, 1011 GCT; 27°13.5'N, 116°30.5'W; sounding, 2100 fm; wind 330°, force 4; weather, partly cloudy; sea, slight; wire angle, 12°, 15°, 11°, 14°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	20.16	33.64	5.47	0	20.16	33.64	5.47	23.71	419.9	0.000	
10	19.36	33.64	5.58	10	19.36	33.64	5.58	23.92	400.2	0.041	
				20	18.08	33.54	5.84	24.17	376.3	0.080	
25	17.20	33.49	6.00	30	16.42	33.47	6.00	24.48	346.0	0.116	
54	12.78	33.39	5.92	50	13.33	33.40	5.93	25.12	285.5	0.179	
69	11.79	33.53	4.47	75	11.50	33.61	3.86	25.63	236.8	0.244	
83	11.12	33.73	3.32	100	10.37	33.87	2.86	26.03	199.0	0.299	
108	10.06	33.92	2.72	150	9.55	34.19	2.13	26.41	162.8	0.388	
				200	9.09	34.26	1.56	26.54	149.9	0.466	0.469
133	9.66	34.11	2.33	250	9.10	34.43	0.70	26.67	137.6	0.538	
164	9.46	34.22	1.92	300	9.10	34.56	0.25	26.78	127.5	0.604	
216	8.94	34.27	1.37	400	7.69	34.44	0.32	26.90	116.1	0.726	
282	9.25	34.57	2.65	500	6.93	34.42	0.36	27.00	107.5	0.837	0.851
382	7.91	34.45	-	600	6.35	34.45	0.39	27.10	97.3	0.940	
508	6.87	34.42	0.37	700	5.80	34.50	0.45	27.21	87.2	1.032	
677	5.94	34.53	0.41	800	5.28	34.51	0.58	27.28	80.3	1.116	
				1000	4.25	34.53	0.75	27.41	67.9	1.264	1.306
927	4.54	34.52	0.73	1200	3.61	34.57	0.77	27.50	58.8	1.391	
1180	3.68	34.56	0.73								
1489	2.97	34.61	1.19								

NORPAC
Station
118

NORPAC Station 119; STRANGER; August 11, 1955; 2102, 2329 GCT; 26°31'N, 117°54.5'W; sounding, 2100, (1900) fm; wind 315°, force 4; weather, overcast; sea, rough; wire angle, 04°, 02°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	21.65	33.76	5.40	0	21.65	33.76	5.40	23.39	449.8	0.000	
8	20.82	33.74	5.48	10	20.57	33.73	5.49	23.66	424.0	0.044	
16	19.13	33.69	5.63	20	18.89	33.69	5.61	24.06	385.6	0.084	
41	17.79	33.68	5.44	30	18.39	33.68	5.53	24.19	374.2	0.122	
49	16.83	33.63	5.80	50	16.60	33.61	5.90	24.57	338.0	0.193	
56	15.62	-	6.19	75	12.60	33.40	5.98	25.25	272.9	0.269	
67	13.88	33.40	6.35	100	10.77	33.41	4.67	25.61	239.0	0.333	
82	11.87	33.40	5.63	150	10.08	34.01	2.51	26.20	183.4	0.439	
102	10.71	33.42	4.64	200	9.20	34.09	2.38	26.40	164.0	0.526	0.530
124	10.30	33.65	3.52	250	8.20	34.11	2.28	26.58	147.0	0.604	
167	9.94	34.05	2.33	300	7.65	34.13	1.21	26.66	138.9	0.675	
230	8.45	33.51r	2.44	400	6.90	34.23	0.45	26.85	120.9	0.805	
319	7.59	34.14	1.11	500	6.59	34.41	0.61	27.03	104.0	0.917	0.934
435	6.71	34.27	0.44	600	5.52	34.35	0.62	27.12	95.2	1.017	
593	5.60	34.35	0.62	700	5.20	34.43	0.62	27.23	85.2	1.107	
				800	4.88	34.49	0.68	27.31	77.2	1.188	
492	6.60	34.41	0.60	1000	4.15	34.54	0.77	27.43	66.1	1.332	1.377
669	5.24	34.41	0.61	1200	3.48	34.56	0.99	27.50	58.8	1.457	
832	4.77	34.51	0.71	1500	2.90	34.59	1.42	27.59	50.7	1.620	
1077	3.90	34.68r	0.80	2000	2.10	34.65	2.18	27.70	39.9	1.847	
1322	3.17	34.51r	1.21	2500	1.80	34.67	2.52	27.75	35.9		
1688	2.52	34.61	1.67	3000	1.60	-	2.95				
2067	2.06	34.65	2.27								
2469	1.81	34.67	2.44								
2971	1.62	34.67	2.82								
3372	1.58	34.79r	3.48								

NORPAC
Station
119

NORPAC Station 120; STRANGER; August 12, 1955; 1141, 1200, 1237 GCT; 25°52.5'N, 119°06'W; sounding, 2200 fm; wind 315°, force 4; weather, overcast; sea, moderate; wire angle, 08°, 08°, 25°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	$\Delta D'$	ΔD
0	20.8	33.81	5.40	0	20.8	33.81	5.40	23.66	423.9	0.000	
10	20.78	33.80	5.23	10	20.78	33.80	5.23	23.66	423.9	0.042	
25	18.98	33.86	5.56	20	19.30	33.86	5.45	24.09	382.7	0.083	
55	18.16	33.84	5.74	30	18.80	33.86	5.60	24.23	370.2	0.120	
69	16.34	33.64	5.93	50	18.32	33.85	5.71	24.34	359.8	0.193	
83	15.96	33.65	5.98	75	16.18	33.65	5.96	24.69	325.8	0.279	
107	14.23	33.49	5.86	100	14.70	33.51	5.90	24.91	304.9	0.358	
130	12.85	33.49	5.32	150	11.21	33.50	4.71	25.58	241.4	0.495	0.610
155	10.94	33.50	4.54	200	9.95	33.81	2.95	26.06	196.1	0.605	
206	9.82	33.89	2.89	250	9.09	34.08	2.58	26.41	163.0	0.694	
269	8.74	34.14	2.49	300	8.32	34.19	2.18	26.61	144.0	0.771	
365	7.59	34.26	1.15	400	7.20	34.28	0.90	26.85	121.0	0.904	
483	6.42	34.31	0.55	500	6.30	34.32	0.52	27.00	107.0	1.018	1.038
644	5.33	34.38	0.33	600	5.58	34.36	0.36	27.12	95.0	1.119	
865p	4.40	34.49	0.54	700	5.03	34.40	0.31	27.22	86.2	1.209	
				800	4.66	34.45	0.40	27.30	77.8	1.292	
465p	6.60	34.31	0.63								
753p	4.82	34.43	0.33								

NORPAC
Station
120

NORPAC Station 121; STRANGER; August 13, 1955; 0138, 0248 GUT; 25°02'N, 120°45'W; sounding, 2200 fm; wind 330°, force 4; weather, overcast; sea, rough; wire angle, 08°, 02°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	21.1	33.83	5.45	0	21.1	33.83	5.45	23.61	429.0	0.000		
10	20.6	33.82	5.57	10	20.6	33.82	5.57	23.73	418.0	0.042		
25	19.90	33.81	5.60	20	20.17	33.82	5.60	23.83	407.2	0.084		
54	18.76	33.73	5.72	30	19.71	33.80	5.61	23.95	396.5	0.124		
64	17.85	33.63	5.80	50	18.97	33.75	5.70	24.09	382.7	0.202		
74	17.00	33.58	5.99	75	16.92	33.58	6.00	24.46	347.6	0.293		
89	15.76	33.52	6.08	100	14.72	33.46	5.91	24.87	309.3	0.375		
108	13.80	33.42	5.68	150	10.40	33.65	3.98	25.86	215.4	0.505		
131	11.34	33.44	4.53	200	9.64	34.00	2.79	26.25	177.5	0.603	0.608	
161	10.11	33.75	3.73	250	9.10	34.22	1.75	26.52	152.4	0.686		
213	9.52	34.09	2.36	300	8.43	34.32	1.16	26.72	132.6	0.756		
291	8.56	34.30	1.22	400	7.38	34.36	0.50	26.89	117.4	0.882		
400	7.38	34.36	0.50	500	6.52	34.38	0.33	27.02	105.3	0.993	1.012	
543	6.13u	34.37u	0.29u	600	5.75	34.40	0.30	27.13	93.9	1.092		
738	4.98	34.43	0.36	700	5.17	34.42	0.34	27.22	85.6	1.182		
				800	4.70	34.44	0.45	27.29	79.3	1.265		
				1000	4.04	34.51	0.58	27.42	67.2	1.411	1.460	
0	20.52u	33.82u	5.44u	1200	3.54	34.56	0.83	27.50	58.5	1.537		
10	20.59u	33.81u	5.43u	1500	2.87	34.59	1.42	27.60	49.9	1.699		
498	6.60u	34.40u	0.38u	2000	2.15	34.64	1.92	27.70	40.4	1.925		
672	5.26	34.42	0.32									
837	4.56	34.51	0.50									
1032	3.98	34.52	0.59									
1227	3.41	34.57	0.91									
1497	2.88	34.59	1.46									
1768	2.40	34.62	1.71									
2064	2.05	34.68u	2.20u									
2465	1.85	34.63u	2.09u									

NORPAC
Station
121

NORPAC Station 122; SPENCER F. BAIRD; August 14, 1955; 1755 GCT; 23°31.5'N, 123°08'W; sounding, 2000 fm; wind 010°, force 3; weather, overcast; sea, rough; wire angle, 23°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	AD'	ΔD	
0	20.44	33.78	5.25	0	20.44	33.78	5.25	23.73	417.2	0.000		
9	20.44	33.78	5.28	10	20.44	33.78	5.28	23.74	416.7	0.042		
23	19.33	33.79	5.40	20	20.09	33.79	5.35	23.83	408.0	0.083		
51	16.56	33.57	5.89	30	18.30	33.71	5.63	24.23	370.1	0.122		
64	15.99	33.54	5.82	50	16.63	33.58	5.88	24.53	341.3	0.193		
78	15.54	33.54	5.82	75	15.62	33.54	5.82	24.73	322.1	0.276		
102	14.24	33.45	5.68	100	14.38	33.46	5.71	24.94	302.3	0.354		
124	13.02	33.48	5.27	150	10.91	33.53	4.35	25.67	232.5	0.489		
151	10.82	33.53	4.34	200	10.06	34.00	2.60	26.18	184.3	0.594	0.599	
200	10.06	34.00	2.60	250	9.05	34.17	2.39	26.48	155.7	0.678		
261	8.87	34.19	2.31	300	8.52	34.25	1.95	26.63	142.0	0.753		
355	8.08	34.34	0.86	400	7.55	34.38	0.59	26.88	118.2	0.883		
470	6.78	34.40	0.43	500	6.53	34.40	0.38	27.03	103.4	0.994	1.013	
626	5.68	34.42	0.29	600	5.86	34.42	0.29	27.14	93.9	1.092		
837	4.64	34.52	0.51	700	5.23	34.45	0.34	27.23	84.4	1.182		
1068	3.78	34.59	0.79	800	4.79	34.50	0.48	27.33	75.3	1.262		
1371	3.14	34.61	1.09	1000	4.00	34.58	0.70	27.48	61.4	1.398	1.446	
				1200	3.35	34.60	0.96	27.56	54.0	1.514		

NORPAC
Station
122

NORPAC Station 123; SPENCER F. BAIRD; August 16, 1955; 0457, 0628 GCT; 23°34'N, 126°14'W; sounding, 2000 fm; wind 040°, force 4; weather, drizzle, intermittent; sea, moderate; wire angle, 14°, 10°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	R	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	$\Delta\Delta$
0	20.12	34.06	5.27	0	20.12	34.06	5.27	24.04	388.5	0.000	
10	20.12	34.09	5.27	10	20.12	34.09	5.27	24.06	386.2	0.039	
24	20.10	34.07	5.28	20	20.10	34.07	5.28	24.05	386.8	0.077	
53	19.10	34.04	5.46	30	20.10	34.06	5.28	24.05	386.8	0.116	
62	18.30	33.96	5.59	50	19.27	34.05	5.43	24.25	368.4	0.192	
72	17.88	33.98	5.64	75	17.82	33.99	5.63	24.56	338.2	0.280	
86	17.60	34.00	5.61	100	17.22	34.01	5.56	24.73	322.7	0.363	
104	17.04	34.01	5.53	150	13.04	33.70	5.00	25.40	258.5	0.509	
128	15.52	33.95	5.26	200	10.12	33.84	3.78	26.05	197.2	0.622	0.627
154	12.70	33.68	4.95	250	8.75	34.01	3.35	26.41	162.9	0.712	
205	9.94	33.86	3.73	300	7.90	34.11	2.79	26.61	143.3	0.789	
278	8.23	34.07	3.11	400	6.72	34.21	1.13	26.86	120.3	0.921	
377	6.94	34.18	1.47	500	6.24	34.34	0.45	27.02	105.2	1.034	1.054
515	6.29u	34.36u	0.40u	600	5.78	34.45	0.35	27.17	90.8	1.132	
702	5.24	34.48	0.41	700	5.26	34.48	0.43	27.26	82.3	1.218	
				800	4.80	34.51	0.48	27.33	75.6	1.297	
				1000	4.20	34.51	0.65	27.40	68.7	1.442	1.492
				1200	3.55	34.56	1.15	27.50	59.1	1.569	
				1500	2.88	34.58	1.27	27.59	51.0	1.734	
				2000	2.10	34.64	2.10	27.70	40.3	1.963	
0	20.10u	34.06	5.28u								
10	20.12	34.09	5.28u								
488	6.23u	34.31u	0.52u								
660	5.47	34.47	0.33								
824	4.76	34.51	0.49								
1019	4.14	34.51	0.69								
1208	3.53	34.56	1.14								
1471	2.94	34.58	1.25								
1735	2.48	34.61	1.64								
2021	2.13	34.64	2.05								
2414	1.86	34.68	2.44								

NORPAC
Station
123

NORPAC Station 124; SPENCER F. BAIRD; August 17, 1955; 1827 GCT; 23°30'N, 129°17'W; sounding, 2000 fm; wind 030°, force 3; weather, overcast; sea, moderate; wire angle, 16°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	20.11	34.35	5.28	0	20.11	34.35	5.28	24.26	367.2	0.000	
9	20.10	34.34	5.28	10	20.12	34.34	5.29	24.25	367.9	0.037	
23	20.10	34.33	5.29	20	20.11	34.33	5.29	24.25	368.2	0.074	
52	20.09	34.56	5.26	30	20.10	34.39	5.29	24.29	364.0	0.110	
65	19.37	34.47	5.38	50	20.09	34.54	5.27	24.40	353.4	0.182	
80	19.21	34.54	5.38	75	19.30	34.52	5.38	24.60	334.8	0.267	
102	18.22	34.43	5.42	100	18.33	34.44	5.42	24.78	317.2	0.347	
125	16.62	34.42	5.13	150	13.85	33.88	4.91	25.37	261.4	0.490	0.611
154	13.32	33.79	4.85	200	10.60	33.85	3.97	25.97	204.2	0.606	
204	10.42	33.86	3.91	250	9.17	34.00	3.45	26.33	170.0	0.699	
269	8.78	34.07	3.26	300	8.20	34.11	2.83	26.57	147.3	0.779	
367	7.16	34.15	1.82	400	6.80	34.20	1.45	26.84	122.0	0.914	
487	6.14	34.31	0.67	500	6.07	34.31	0.62	27.02	104.3	1.027	1.047
650	5.30	34.42	0.57	600	5.55	34.32	0.60	27.09	97.9	1.128	
869	4.46	34.52	0.46	700	5.06	34.38	0.52	27.20	87.6	1.221	
1122	3.71	34.56	0.90	800	4.62	34.48	0.49	27.33	75.5	1.303	
1427	2.96	34.60	1.23	1000	4.07	34.55	0.65	27.44	64.6	1.443	1.493
				1200	3.50	34.57	1.00	27.52	57.5	1.565	

NORPAC
Station
124

NORPAC Station 125; SPENCER F. BAIRD; August 19, 1955; 1019, 1200 GCT; 23°40'N, 132°15'W; sounding, 2580 fm; wind 050°, force 3; weather, missing; sea, moderate; wire angle, 13°, 15°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	20.00	34.66	5.32	0	20.00	34.66	5.32	24.52	342.3	0.000	
6	19.98	34.68	5.25	10	19.99	34.68	5.27	24.54	340.2	0.034	
24	19.99	34.68	5.35	20	19.99	34.68	5.33	24.54	340.2	0.068	
53	19.24	34.66	5.46	30	19.99	34.68	5.37	24.54	340.2	0.102	
63	18.81	34.62	5.48	50	19.63	34.67	5.43	24.63	332.1	0.169	
72	18.60	34.68	5.46	75	18.55	34.68	5.47	24.91	304.8	0.249	
88	18.32	34.68	5.42	100	17.83	34.60	5.30	25.02	294.6	0.324	
106	17.60	34.56	5.25	150	14.83	34.17	4.98	25.39	259.9	0.463	
132	16.74	34.48	5.12	200	11.35	33.95	4.74	25.91	209.8	0.580	0.585
160	13.92	34.06	4.92	250	9.88	33.97	4.52	26.18	184.0	0.679	
210	10.89	33.94	4.69	300	8.58	34.06	3.93	26.47	156.9	0.764	
284	9.01	34.04	4.25	400	6.60	34.11	1.90	26.80	126.0	0.906	
385	6.69	34.09	2.14	500	6.16	34.29	0.56	27.00	107.0	1.022	1.042
520	5.98	34.31	0.43	600	5.40	34.34	0.40	27.13	94.3	1.123	
707	4.89	34.42	0.41	700	4.95	34.41	0.40	27.24	83.9	1.212	
				800	4.60	34.45	0.52	27.31	77.5	1.293	
0	19.96u	34.68u	5:27u	1000	3.95	34.51	0.85	27.42	66.4	1.437	1.487
11	19.98u	34.68u	5:32u	1200	3.42	34.57	1.05	27.52	57.1	1.561	
469	6.33	34.24	0.84	1500	2.80	34.62	1.40	27.63	47.4	1.718	
639	5.26	34.36	0.40	2000	2.15	34.64	2.00	27.70	40.1	1.937	
795	4.61	34.45	0.50								
983	3.99	34.60u	0.84								
1176	3.48	34.56	1.02								
1438	2.93	34.61	1.26								
1703	2.46	34.63	1.68								
1996	2.10	34.64	1.99								
2396	1.80	34.67	2.42								

NORPAC
Station
125

NORPAC Station 126; SPENCER F. BAIRD; August 20, 1955; 2245 GCT; 23°43'N, 135°11'W; sounding, 2700 fm; wind 040°, force 3; weather, drizzle; sea, moderate; wire angle, 15°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	21.48	34.79	5.13	0	21.48	34.79	5.13	24.22	370.9	0.000	
10	21.29	34.78	5.06	10	21.29	34.78	5.06	24.27	366.6	0.037	
24	21.26	34.78	5.17	20	21.26	34.78	5.18	24.27	365.8	0.073	
53	20.11	34.72	5.30	30	21.24	34.78	5.32	24.28	364.9	0.110	
66	19.85	34.80	5.41	50	21.09	34.77	5.30	24.32	361.9	0.183	
80	19.38	34.80	5.33	75	19.59	34.80	5.38	24.74	321.5	0.268	
103	18.63	34.79	5.20	100	18.70	34.79	5.21	24.96	300.7	0.346	
125	18.08	34.76	5.08	150	17.25	34.66	4.99	25.21	276.2	0.490	
152	17.15	34.64	4.99	200	13.02	34.10	4.16	25.71	229.1	0.616	0.621
200	13.02	34.10	4.16	250	10.14	33.99	4.30	26.16	186.0	0.720	
264	9.58	33.99	4.29	300	8.64	34.01	3.81	26.42	161.8	0.807	
360	7.54	34.07	2.74	400	6.98	34.11	2.27	26.75	130.7	0.953	
477	6.18	34.19	1.10	500	6.00	34.21	0.74	26.95	111.0	1.074	1.096
637	5.22	34.36	0.46	600	5.40	34.32	0.46	27.11	96.2	1.177	
851	4.32	34.49	0.71	700	4.89	34.43	0.55	27.26	82.2	1.267	
1096	3.68	34.53	0.93	800	4.48	34.48	0.67	27.34	74.1	1.345	
1395	3.02	34.58	1.27	1000	3.90	34.52	0.86	27.44	65.1	1.484	1.536
				1200	3.41	34.54	1.03	27.51	58.8	1.608	

NORPAC
Station
126

NORPAC Station 127; SPENCER F. BAIRD; August 21, 1955; 1650, 1820 GCT; 23°39.5'N, 138°16'W; sounding, 2000 fm; wind 045°, force 3; weather, cloudy; sea, slight; wire angle, 20°, 12°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	22.12	34.83	5.16	0	22.12	34.83	5.16	24.08	384.2	0.000	
9	22.08	34.82	5.12	10	22.09	34.82	5.12	24.08	384.0	0.038	
23	22.03	34.79	5.10	20	22.04	34.80	5.10	24.07	385.0	0.077	
51	20.99	34.82	5.35	30	22.00	34.79	5.08	24.08	384.2	0.115	
61	20.58	34.89	5.42	50	21.40	34.79	5.08	24.10	382.2	0.192	
70	20.23	34.92	5.34	75	20.00	34.92	5.35	24.72	323.8	0.280	
84	19.57	34.88	5.30	100	18.92	34.77	4.90	24.88	307.9	0.359	
103	18.83	34.76	4.90	150	18.18	34.78	5.05	25.08	289.1	0.508	
130	18.43	34.79	5.12	200	16.39	34.58	4.90	25.35	263.7	0.646	0.651
152	18.15	34.78	5.04	250	12.45	34.05	4.80	25.78	222.9	0.767	
199	16.42	34.58	4.90	300	10.05	34.03	4.36	26.20	182.2	0.869	
270	11.35	33.97	4.69	400	7.79	34.05	3.49	26.58	146.1	1.033	
366	8.22	34.05	3.72	500	6.25	34.13	1.50	26.86	120.0	1.166	1.190
498	6.26	34.13	1.52	600	5.30	34.29	0.70	27.10	97.1	1.275	
683	4.99	34.33	0.45	700	4.89	34.34	0.46	27.19	88.8	1.368	
				800	4.53	34.41	0.64	27.28	79.7	1.452	
				1000	4.00	34.49	0.85	27.41	68.0	1.599	1.657
0	22.12	34.82u	5.08u	1200	3.50	34.52	0.99	27.48	61.1	1.728	
9	22.10u	34.81u	5.17u	1500	2.75	34.60	1.38	27.61	48.8	1.893	
482	6.56	34.08	1.90	2000	2.08	34.63	2.01	27.69	41.2	2.118	
651	5.10	34.31	0.50								
809	4.52	34.43	0.63								
998	4.00	34.52	0.85								
1186	3.48	34.52	0.99								
1448	2.89	34.59	1.32								
1710	2.46	34.67u	1.67								
2007	2.09	34.63	2.06								
2339p	2.18r	34.64	1.97								

NORPAC
Station
127

NORPAC Station 128; SPENCER F. BAIRD; August 22, 1955; 1444 GCT; 23°40'N, 191°06'W; sounding, 2800 fm; wind 025°, force 4; weather, drizzle; sea, moderate; wire angle 20°.

Z	OBSERVED		INTERPOLATED				COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔΔ
0	22.10	34.97	4.95	0	22.10	34.97	4.95	24.19	374.0	0.000	
9	22.12	35.01	5.09	10	22.10	35.01	5.03	24.22	371.2	0.037	
23	22.13	35.03	4.90	20	22.11	35.03	4.92	24.23	370.1	0.074	
51	21.74	35.01	4.96	30	21.92	35.02	4.91	24.28	365.3	0.111	
64	20.84	35.28	5.12	50	21.75	35.01	4.96	24.32	361.3	0.184	
78	20.50	35.32	5.14	75	20.55	35.32	5.14	24.88	308.0	0.268	
100	19.87	35.23	5.03	100	19.87	35.23	5.03	24.99	297.9	0.343	
122	19.12	35.16	5.05	150	18.71	35.10	4.96	25.19	279.0	0.486	
148	18.76	35.10	4.98	200	16.41	34.63	4.78	25.38	260.4	0.621	0.626
195	16.81	34.69	4.79	250	12.41	34.17	4.69	25.88	213.0	0.739	
256	12.18	34.14	4.69	300	10.50	34.08	4.53	26.17	185.2	0.839	
348	9.43	34.07	4.31	400	8.20	34.05	3.73	26.52	151.8	1.007	
460	6.67	34.04	2.57	500	6.09	34.10	1.90	26.86	120.2	1.143	1.167
615	5.23	34.23	0.63	600	5.27	34.22	0.66	27.05	102.3	1.254	
821	4.34	34.43	0.61	700	4.80	34.32	0.60	27.19	89.1	1.350	
1060	3.77	34.52	1.01	800	4.39	34.42	0.61	27.31	77.6	1.433	
1355	3.10	34.57	1.25	1000	3.83	34.51	0.98	27.43	65.8	1.577	1.634
				1200	3.45	34.55	1.12	27.50	59.1	1.702	

NORPAC
Station
128

NORPAC Station 129; SPENCER F. BAIRD; August 23, 1955; 0829, 1010 GCT; 23°42'N, 143°57.5'W; sounding, 2000 fm; wind 060°, force 4; weather, drizzle; sea, moderate; wire angle, 26°, 20°.

Z	OBSERVED			INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	22.23	35.03	5.23	0	22.23	35.03	5.23	24.20	373.0	0.000	
9	22.20	35.04	5.06	10	22.19	35.04	5.10	24.22	371.3	0.037	
22	22.09	35.16	5.15	20	22.10	35.13	5.13	24.31	362.0	0.074	
49	21.92	35.19	5.11	30	22.02	35.18	5.10	24.37	356.2	0.110	
58	21.93	35.16	5.03	50	21.91	35.19	5.12	24.40	353.4	0.181	
67	21.66	35.20	5.29	75	21.10	35.21	5.23	24.64	331.0	0.266	
80	20.90	35.21	5.21	100	20.42	35.21	5.27	24.83	313.0	0.347	
99	20.44	35.21	5.26	150	19.23	35.14	5.07	25.09	288.6	0.497	
120	19.92	35.18	5.29	200	17.60	34.85	4.98	25.28	270.0	0.637	0.642
143	19.40	35.16	5.10	250	14.50	34.39	4.73	25.63	237.1	0.763	
185	18.50	35.01	5.01	300	12.14	34.13	4.75	25.90	210.9	0.875	
246	14.74	34.42	4.76	400	9.02	34.03	4.00	26.37	166.0	1.064	
339	10.74	34.04	4.73	500	6.81	34.10	2.19	26.75	130.0	1.212	1.238
455	7.62	34.05	3.02	600	5.70	34.19	0.82	26.97	109.2	1.331	
640	5.39	34.23	0.71	700	5.00	34.32	0.64	27.16	91.9	1.432	
				800	4.59	34.40	0.60	27.26	81.8	1.519	
				1000	4.00	34.48	0.93	27.40	69.1	1.670	1.732
				1200	3.50	34.53	1.15	27.49	60.1	1.799	
				1500	2.90	34.59	1.45	27.59	50.8	1.965	
				2000	2.10	34.60	2.07	27.67	43.2	2.200	
0	22.40u	34.92u	5.09u								
9	22.42u	34.92u	5.08u								
456	7.60	34.05	2.97								
627	5.49	34.22	0.73								
785	4.68	34.38	0.57								
968	4.11	34.47	0.87								
1150	3.61	34.52	1.09								
1403	3.07	34.58	1.35								
1656	2.57	34.61	1.63								
1935	2.17	34.60	1.92								
2313	1.82	34.63	2.34								

NORPAC
Station
129

NORPAC Station 130; SPENCER F. BAIRD; August 24, 1955; 0748 GCT; 23°48'N, 146°56'W; sounding, 2000 fm; wind 060°, force 5; weather, partly cloudy; sea, rough; wire angle, 25°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	22.54	34.64	5.07	0	22.54	34.64	5.07	23.82	409.0	0.000		
9	22.54	35.16	5.09	10	22.54	35.17	5.08	24.21	372.1	0.039		
22	22.56	35.16	5.15	20	22.55	35.16	5.11	24.21	372.1	0.076		
51	22.46	35.26	5.10	30	22.54	35.16	5.11	24.21	372.1	0.113		
64	21.48	35.08	5.25	50	22.47	35.25	5.10	24.30	363.3	0.187		
78	21.54	35.34	5.32	75	21.51	35.30	5.31	24.61	334.2	0.274		
99	20.90	35.33	5.05	100	20.86	35.33	5.03	24.80	315.4	0.355		
122	20.24	35.26	4.98	150	19.53	35.20	4.93	25.07	290.2	0.507		
148	19.59	35.21	4.93	200	18.00	34.98	4.96	25.28	270.1	0.647	0.652	
196	18.17	35.01	4.97	250	15.03	34.50	4.80	25.60	239.9	0.774		
257	14.68	34.46	4.77	300	12.30	34.24	4.66	25.96	205.3	0.885		
348	10.22	34.12	4.64	400	8.60	34.06	4.08	26.47	156.8	1.066		
461	7.03	34.04	2.86	500	6.43	34.10	1.35	26.81	124.5	1.207	1.232	
616	5.66	34.23	0.71	600	5.69	34.22	0.71	27.00	106.6	1.323		
814p	4.72	34.42	0.67	700	5.24	34.30	0.67	27.11	95.9	1.424		
1016p	4.06	34.54	0.93	800	4.79	34.41	0.66	27.26	82.3	1.513		
1299p	3.40	34.51u	1.25	1000	4.10	34.53	0.89	27.43	66.0	1.662	1.723	
				1200	3.59	-	1.16					

NORPAC
Station
130

NORPAC Station 131; SPENCER F. BAIRD; August 25, 1955; 0129, 0330 GCT; 23°45'N, 150°00'W; sounding, 2900 fm; wind 070°, force 5; weather, cloudy; sea, very rough; wire angle, 09°, 17°.

Z	COMPUTED			INTERPOLATED			OBSERVED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	23.13	35.01	5.04	0	23.13	35.01	5.04	23.93	398.9	0.000
10	23.13	35.03	4.98	10	23.13	35.03	4.98	23.95	396.3	0.040
25	23.10	35.07	5.01	20	23.11	35.06	5.05	23.97	394.8	0.079
55	22.89	35.01	5.06	30	23.08	35.06	5.05	23.99	393.3	0.119
65	22.68	35.00	5.13	50	22.95	35.02	5.07	23.99	393.1	0.197
76	22.30	34.99	5.19	75	22.31	34.99	5.20	24.14	378.2	0.294
89	21.16	35.01	5.28	100	20.55	34.97	5.25	24.62	333.3	0.383
110	20.27	34.95	5.19	150	19.00	34.94	4.81	25.00	296.2	0.540
135	19.28	34.92	4.88	200	16.71	34.58	4.61	25.28	270.0	0.682
162	18.81	34.92	4.79	250	12.20	34.06	4.20	25.85	216.2	0.804
212	15.38	34.37	4.54	300	10.66	34.04	3.99	26.11	191.5	0.905
285	11.05	34.04	4.07	400	8.12	34.06	2.85	26.54	150.7	1.076
385	8.35	34.85	3.03	500	6.10	34.06	1.75	26.82	123.8	1.214
520	5.62	34.05	1.54	600	5.00	34.16	0.89	27.03	103.4	1.327
705	4.65	34.27	0.57	700	4.65	34.27	0.60	27.15	92.0	1.425
				800	4.37	34.34	0.66	27.25	82.7	1.512
				1000	3.88	34.47	1.05	27.40	68.5	1.663
				1200	3.24	34.56	1.34	27.53	56.3	1.788
				1500	2.70	34.63	1.65	27.64	46.0	1.942
				2000	2.10	34.65	2.17	27.71	39.9	2.156
				2500	1.75	34.68	2.47	27.76	34.7	
				3000	1.56	34.71	2.93	27.80	30.1	
0	23.09u	35.03u	5.00u							
8	23.11u	35.03u	4.96u							
467	7.12	34.09	2.16							
629	4.91	34.19	0.76							
787	4.38	34.34	0.65							
1022	3.83	34.50	1.08							
1194	3.31	34.56	1.30							
1399p	2.92	34.61	1.52							
1580	2.64	34.65	1.68							
1956	2.18	34.65	2.01							
2334	1.83	34.67	2.31							
2817	1.60	34.67u	2.79							
3305	1.52	34.71	3.12							
3799	1.47	34.72	3.31							

NORPAC
Station
131

NORPAC Station 132; SPENCER F. BAIRD; August 10, 1955; 1952 GCT; 26°05'N, 114°16'W; sounding 1500 fm; wind 300°, force 3; weather, clear; sea, slight; wire angle, 06°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂		D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	22.08	33.78	5.21		0	22.08	33.78	5.21	23.29	459.8	0.000	
10	18.98	33.69	5.74		10	18.98	33.69	5.74	24.05	387.3	0.042	
25	16.04	33.73	6.20		20	16.88	33.71	6.12	24.57	337.3	0.079	
49	12.48	33.48	5.04		30	15.20	33.69	6.10	24.94	302.9	0.111	
67	11.95	33.73	3.39		50	12.41	33.48	4.98	25.35	263.3	0.167	
78	10.63	33.82	2.70		75	10.80	33.80	2.79	25.90	210.9	0.227	
98	10.48	34.03	2.06		100	10.50	34.05	2.00	26.15	187.4	0.276	
123	10.64	34.25	1.75		150	10.72	34.45	1.16	26.42	161.5	0.364	
151	10.70	34.45	1.16		200	10.22	34.57	0.80	26.60	144.7	0.440	0.443
198	10.22	34.57	0.80		250	9.58	34.53	0.44	26.68	137.2	0.510	
260	9.47	34.52	0.42		300	9.05	34.51	0.42	26.74	130.6	0.577	
352	8.73	34.50	0.45		400	8.25	34.48	0.50	26.85	121.1	0.703	
465	7.38	34.43	0.58		500	7.09	34.43	0.58	26.98	108.2	0.818	0.832
621	6.30	34.49	0.51		600	6.40	34.48	0.51	27.11	95.8	0.920	
838	5.02	34.51	0.71		700	5.86	34.50	0.58	27.20	87.7	1.012	
1095	3.91	34.51	0.75		800	5.30	34.51	0.69	27.27	80.6	1.096	
1386	3.23	34.58	1.09		1000	4.27	34.51	0.71	27.39	69.5	1.246	1.287
					1200	3.60	34.54	0.89	27.48	60.9	1.377	

NORPAC
Station
132

NORPAC Station 133; SPENCER F. BAIRD; August 11, 1955; 0405 GCT; 25°49'N, 114°47'W; sounding, 1940 fm; wind 310°, force 3; weather, clear; sea, slight; wire angle, 25°.

Z	OBSERVED			INTERPOLATED					COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	21.59	33.62	5.11	0	21.59	33.62	5.11	23.31	458.0	0.000	
9	20.84	33.62	5.28	10	20.40	33.61	5.25	23.61	428.9	0.044	
23	18.65	33.55	5.14	20	18.91	33.55	5.14	23.97	395.3	0.086	
45	16.88	33.53	6.07	30	18.18	33.55	5.33	24.14	378.2	0.124	
60	15.20	33.44	6.06	50	16.13	33.50	6.07	24.59	335.8	0.196	
72	14.23	33.38	5.94	75	13.68	33.36	5.83	25.01	296.0	0.275	
91	12.10	33.35	5.12	100	11.60	33.40	4.84	25.45	254.1	0.343	
112	11.19	33.49	4.30	150	10.41	34.16	2.06	26.24	178.6	0.453	0.543
138	10.56	33.89	2.39	200	9.99	34.26	1.27	26.40	163.4	0.539	
179	10.20	34.23	1.44	250	9.54	34.41	0.70	26.60	144.8	0.616	
231	9.66	34.36	0.98	300	9.31	34.51	0.32	26.71	134.5	0.686	
308	9.28	34.52	0.30	400	8.28	34.47	0.20	26.84	122.1	0.814	
404	8.24	34.47	0.21	500	7.50	34.47	0.20	26.95	111.4	0.931	0.948
536	7.05	34.47	0.94r	600	5.97	34.48	0.18	27.18	89.9	1.031	
619	5.65	34.49	0.19	700	4.92	34.50	0.30	27.31	76.9	1.115	
937	4.26	34.52	0.47	800	4.54	34.51	0.40	27.37	72.0	1.189	
1204	3.56	34.56	0.71	1000	4.04	34.53	0.51	27.43	56.0	1.327	1.372
				1200	3.58	34.56	0.70	27.50	59.3	1.452	

NORPAC
Station
133

NORPAC Station 134; SPENCER F. BAIRD; August 11, 1955; 1526, 1733 GCT; 25°09'N, 116°02'W; sounding, 2000 fm; wind 310°, force 3; weather, partly cloudy; sea, slight; wire angle, 32°, 35°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	22.10	33.78	5.12	0	22.10	33.78	5.12	23.29	460.0	0.000
8	21.75	33.77	5.16	10	21.30	33.78	5.19	23.50	439.4	0.045
21	19.77	33.79	5.30	20	19.82	33.79	5.30	23.91	400.6	0.087
42	17.64	33.62	5.58	30	18.80	33.73	5.41	24.12	380.1	0.126
50	16.74	33.54	5.59	50	16.74	33.54	5.59	24.48	345.7	0.199
58	15.99	33.51	5.80	75	14.55	33.38	5.81	24.84	311.8	0.281
66	15.31	33.45	5.85	100	12.46	33.39	5.24	25.27	270.8	0.354
82	13.90	33.33	5.75	150	10.05	33.70	3.10	25.95	206.1	0.471
100	12.46	33.39	5.24	200	10.01	34.21	2.44	26.35	168.0	0.564
124	10.70	33.53	3.81	250	9.64	34.37	1.70	26.55	149.7	0.644
162	9.85	33.85	2.84	300	9.27	34.52	0.41	26.72	132.9	0.714
215	9.84	34.29	2.35	400	7.61	34.43	0.35	26.91	115.8	0.838
293	9.34	34.52	0.46	500	6.60	34.42	0.50	27.04	103.5	0.948
394	7.70	34.43	0.37	600	6.00	34.42	0.26	27.12	95.1	1.048
560	6.18u	34.42	0.26	700	5.41	34.45	0.32	27.22	86.2	1.138
				800	5.01	34.46	0.37	27.27	81.4	1.222
0	22.39u	33.75u	5.20u	1000	4.19	34.52	0.68	27.42	67.5	1.371
9	21.44u	33.76u	5.24u	1200	3.60	34.57	0.89	27.51	58.0	1.496
404	7.55	34.38u	0.49u	1500	2.96	34.62	1.19	27.61	48.2	1.656
551	6.38u	34.42	0.53	2000	2.15	34.64	1.99	27.70	40.7	1.879
689	5.46	34.45	0.32							
872	4.76	34.46	0.42							
1015	4.12	34.53	0.71							
1238	3.52	34.58	1.14r							
1466	3.00	34.62	1.14							
1727	2.50	34.56r	1.53							
2095	2.03	34.64	2.11							

NORPAC
Station
134

0.568

0.966

1.418

NORPAC Station 135; SPENCER F. BAIRD; August 12, 1955; 1358 GCT; 24° 10' N, 117° 56' W; sounding, 2000 fm; wind 335°, force 3; weather, overcast; sea, moderate; wire angle, 15°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	22.33	33.93	5.02	0	22.33	33.93	5.02	23.34	455.4	0.000
10	21.30	33.82	5.16	10	21.30	33.82	5.16	23.53	436.3	0.045
24	19.84	33.78	5.39	20	20.19	33.78	5.32	23.79	410.2	0.087
53	17.46	33.61	5.75	30	19.25	33.76	5.48	24.04	388.3	0.127
68	16.28	33.49	5.90	50	17.61	33.63	5.72	24.34	359.9	0.202
82	15.76	33.52	5.81	75	16.06	33.49	5.87	24.60	334.6	0.288
106	14.02	33.42	5.64	100	14.60	33.47	5.70	24.90	306.0	0.368
109p	13.69	33.39	5.42	150	10.99	33.64	4.00	25.74	226.1	0.501
130	11.90	33.42	4.90	200	9.72	34.07	2.66	26.30	173.0	0.601
158	11.76	34.00	2.49	250	9.07	34.28	0.87	26.57	147.9	0.681
209	9.70	34.17	2.40	300	8.54	34.35	0.51	26.70	135.1	0.752
517	6.72	34.42	0.28	400	7.65	34.39	0.36	26.87	118.5	0.879
778	5.14	34.50	0.25	500	6.86	34.42	0.29	27.00	106.3	0.991
1070	3.94	34.54	0.58	600	6.13	34.44	0.26	27.11	95.8	1.092
1415	3.11	34.60	1.06	700	5.51	34.48	0.24	27.23	85.4	1.183
				800	5.02	34.51	0.27	27.30	78.0	1.265
				1000	4.20	34.53	0.47	27.41	67.4	1.410
				1200	3.55	34.56	0.80	27.51	58.2	1.536

NORPAC
Station
135

NORPAC Station 135-A; SPENCER F. BAIRD; August 12, 1955; 1605, 1650 GCT; 24°06.5'N, 118°01'W; sounding, 2000 fm; wind 315°, force 3; weather, overcast; sea, moderate; wire angle, 11°, 22°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	22.33	33.87	5.11	0	22.33	33.87	5.11	23.29	459.4	0.000
10	21.46	33.84	5.05	10	21.46	33.84	5.05	23.51	438.8	0.045
27	19.68	33.77	5.33	20	20.18	33.79	5.23	23.82	409.0	0.087
54	17.52	33.62	5.80	30	19.55	33.77	5.37	23.96	395.9	0.128
69	16.47	33.55	5.80	50	18.60	33.71	5.61	24.16	376.7	0.205
83	15.90	33.51	5.78	75	16.25	33.54	5.80	24.59	336.0	0.294
108	14.50	33.44	5.63	100	15.00	33.45	5.70	24.80	315.9	0.376
130	12.64	33.46	5.16	150	11.70	33.71	4.01	25.66	234.0	0.514
158	12.16	33.98	2.52	200	9.00	33.81	3.94	26.21	181.7	0.618
209	9.22	33.94	3.58	250	9.34	34.23	2.04	26.49	155.4	0.702
274	8.90	34.27	1.70	300	8.57	34.32	1.30	26.68	136.9	0.776
373	8.15	34.40	0.58	400	7.95	34.41	0.46	26.84	121.8	0.905
495	6.91	34.43	0.28	500	6.85	34.43	0.28	27.02	105.2	1.018
659	5.68	34.45	0.81	600	6.04	34.44	0.68	27.13	94.3	1.118
871	4.64	34.48	0.48	700	5.48	34.45	0.80	27.20	87.3	1.209
1116	3.83	34.54	0.71	800	4.99	34.46	0.50	27.27	80.9	1.293
1416	3.11	34.60	1.18	1000	4.21	34.52	0.59	27.40	68.4	1.442
				1200	3.62	34.55	0.85	27.49	60.0	1.570

NORPAC
Station
135-A

NORPAC Station 136; SPENCER F. BAIRD; August 13, 1955; 0526, 0656 GCT; 23°09'N, 119°47'W; sounding, 2000 fm; wind 295°, force 2; weather, overcast; sea, moderate; wire angle, 12°, 09°.

Z	OBSERVED				INTERPOLATED				COMPUTED				
	T	S	O ₂	PO ₄	D	T	S	O ₂	PO ₄	σ _t	Δ'	Δ'	ΔD
0	21.47	34.08	5.13	0.40	0	21.47	34.08	5.13	0.40	23.69	422.1	0.000	
10	21.42	34.07	5.16	0.40	10	21.42	34.07	5.16	0.40	23.69	421.5	0.042	
24	20.46	34.10	5.24	0.40	20	21.40	34.09	5.17	0.40	23.71	419.3	0.084	
53	19.94	34.16	5.34	0.40	30	20.40	34.11	5.23	0.40	24.00	392.1	0.125	
62	19.00	34.07	5.51	0.38	50	20.30	34.16	5.26	0.40	24.06	385.9	0.203	
72	17.64	33.79	5.66	0.43	75	17.40	33.76	5.69	0.43	24.48	345.8	0.294	
87	16.78	33.69	5.72	0.42	100	16.23	33.69	5.60	0.42	24.70	324.9	0.378	
106	15.98	33.70	5.52	0.44	150	11.50	33.57	4.32	1.25	25.59	239.9	0.518	0.628
129	12.92	33.51	4.90	0.89	200	10.32	34.12	2.10	2.16	26.23	180.0	0.623	
157	11.16	33.62	4.03	1.41	250	9.77	34.35	1.80	2.38	26.51	153.7	0.706	
209	10.23	34.20	2.03	2.19	300	9.08	34.38	1.37	2.53	26.65	140.1	0.780	
284	9.30	34.38	1.53	2.48	400	7.61	34.39	0.41	2.78	26.87	118.6	0.910	
387	7.77	34.39	0.47	2.75	500	6.85	34.40	0.26	2.94	26.99	108.0	1.023	1.043
459p	7.10u	34.39u	0.29u	2.90u	600	6.12	34.44	0.29	3.04	27.12	95.4	1.125	
525	6.66	34.40	0.24	2.94	700	5.45	34.49	0.31	3.12	27.23	84.1	1.214	
					800	4.99	34.51	0.30	3.14	27.31	77.5	1.295	
0	21.32u	34.02u	5.20u		1000	3.19	34.57	0.58	3.12	27.45	64.3	1.437	1.487
10	21.32u	34.04u	5.15u		1200	3.49	34.56	0.82	3.18	27.51	58.2	1.560	
485	7.08u	34.40u	0.30		1500	2.90	34.62	1.48	2.98	27.61	48.2	1.720	
656	5.69	34.47	0.32		2000	2.15	34.69	2.07	2.82	27.74	36.3	1.933	
817	4.94	34.51	0.31										
1007	4.09	34.57	0.61										
1197	3.54	34.56	0.82										
1461	2.95	34.61	1.71u										
1723	2.48	34.64	1.81										
2010	2.10	34.69	2.08										
2408	1.85	34.67r	2.46										

NORPAC
Station
136

NORPAC Station 137; SPENCER F. BAIRD; August 13, 1955; 0107, 0242, 0337 GCT; 21°53'N, 122°14.5'W; sounding, 2000 fm; wind 355°, force 3; weather, overcast; sea, moderate; wire angle, 10°, 16°, 19°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	21.92	34.47	5.03	0	21.92	34.47	5.03	23.86	404.9	0.000	
10	21.89	34.49	5.06	10	21.89	34.49	5.06	23.89	402.8	0.040	
25	21.22	34.42	5.12	20	21.70	34.48	5.06	23.94	397.8	0.080	
54	20.60	34.49	5.25	30	20.92	34.42	5.18	24.10	382.5	0.120	
64	19.82	34.38	5.44	50	20.63	34.49	5.24	24.22	370.7	0.195	
74	18.94	34.22	5.52	75	18.92	34.22	5.52	24.47	347.4	0.284	
88	18.90	34.34	5.42	100	18.61	34.37	5.40	24.66	329.4	0.369	
107	18.40	34.36	5.39	150	13.15	33.71	4.68	25.38	260.1	0.519	
131	15.62	33.96	5.12	200	10.40	33.96	4.00	26.09	192.7	0.632	0.637
159	12.48	33.78	4.54	250	9.52	34.26	2.30	26.47	156.7	0.720	
209	10.08	33.98	3.70	300	9.11	34.41	1.21	26.66	138.7	0.794	
285	9.26	34.40	1.47	400	8.05	34.46	0.40	26.86	119.8	0.923	
386	8.20	34.45	0.43	500	7.09	34.47	0.28	27.02	104.9	1.035	1.055
513p	6.92	34.54	0.27	600	6.18	34.54	0.27	27.19	88.2	1.132	
522	6.78	34.48	0.24	700	5.83	34.56	0.28	27.25	82.6	1.217	
				800	5.22	34.56	0.34	27.32	76.0	1.296	1.487
0	21.83u	34.49u	5.35u	1000	4.15	34.56	0.61	27.44	64.9	1.437	
10	21.82u	34.55u	5.20u	1200	3.68	34.56	0.81	27.49	60.1	1.562	
475	7.40	34.52u	0.32	1500	2.99	34.64	1.30	27.63	47.3	1.724	
642	6.09	34.56	0.28	2000	2.10	(34.69)	(2.10)	(27.74)	(36.5)	(1.933)	
798	5.22	34.56	0.33								
982	4.41	34.56	0.54								
1166	3.79	34.56	0.74								
1420	3.11	34.61	1.12								
1697	2.58	34.66	1.57								
1982	2.16	34.69	2.03								
2374	1.86	34.61r	-								

NORPAC
Station
137

NORPAC Station 138; SPENCER F. BAIRD; August 15, 1955; 1044, 1122 GCT; 21°48'N, 124°44'W; sounding, 2520 fm; wind 040°, force 3; weather, obscured; sea, moderate; wire angle, 04°, 09°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	20.75	34.17	5.21	0	20.75	34.17	5.21	23.96	396.1	0.000	
10	20.75	34.15	5.22	10	20.75	34.15	5.22	23.94	397.4	0.040	
25	20.23	34.12	5.31	20	20.53	34.18	5.26	24.02	390.3	0.079	
55	19.53	34.22	5.42	30	20.15	34.13	5.33	24.08	384.6	0.118	
69	18.59	34.14	5.59	50	19.86	34.27	5.37	24.27	366.4	0.193	
84	17.92	34.07	5.58	75	18.30	34.11	5.58	24.54	340.5	0.281	
108	17.74	34.23	5.51	100	17.79	34.20	5.53	24.73	322.1	0.364	
132	16.12	34.05	5.28	150	14.28	33.82	5.06	25.24	274.2	0.514	
159	13.12	33.73	4.87	200	10.57	33.87	3.87	26.00	201.6	0.633	0.638
211	10.14	33.93	3.61	250	9.20	34.10	2.73	26.40	163.4	0.724	
278	8.73	34.19	2.07	300	8.40	34.25	1.47	26.65	140.0	0.800	
378	7.76	34.35	0.71	400	7.57	34.36	0.65	26.86	120.4	0.930	
499	6.45	34.37	0.42	500	6.44	34.37	0.42	27.02	104.7	1.043	1.063
670	5.65	34.47	0.31	600	5.86	34.44	0.34	27.15	92.6	1.142	
908	4.48	34.51	0.43	700	5.58	34.48	0.32	27.22	86.1	1.231	
1167	3.66	34.56	0.76	800	5.19	34.49	0.33	27.27	80.9	1.315	
1481	3.06	34.58	1.15	1000	4.20	34.52	0.53	27.41	67.8	1.464	1.516
				1200	3.59	34.56	0.82	27.51	58.7	1.590	

NORPAC
Station
138

NORPAC Station 139; SPENCER F. BAIRD; August 16, 17, 1955; 2316, 0105 GGT; 21°53'N, 127°38'W; sounding, 2000 fm; wind 040°, force 3; weather, overcast; sea, moderate; wire angle, 15°, 21°.

Z	OBSERVED			INTERPOLATED					COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD'	ΔD
0	20.60	34.22	5.29	0	20.60	34.22	5.29	24.03	389.0	0.000	
9	20.56	34.25	5.25	10	20.56	34.25	5.24	24.07	385.5	0.039	
24	20.53	34.23	5.25	20	20.55	34.23	5.24	24.07	385.6	0.077	
53	20.20	34.52	5.30	30	20.41	34.23	5.23	24.09	383.8	0.116	
63	20.06	34.59	5.40	50	20.22	34.47	5.28	24.33	360.9	0.190	
70p	19.71	34.61	5.46	75	19.59	34.61	5.47	24.59	335.3	0.277	
72	19.65	34.61	5.47	100	18.98	34.60	5.39	24.75	320.9	0.359	
87	19.30	34.60	5.49	150	16.78	34.31	5.13	25.06	290.9	0.513	
104	18.86	34.60	5.37	200	12.02	33.76	4.50	25.65	234.9	0.644	0.649
129	16.16	34.53	5.32	250	9.80	34.00	3.60	26.22	180.7	0.748	
151p	16.70	34.30	5.12	300	8.54	34.08	3.20	26.50	154.6	0.832	
156	16.06	34.19	5.08	400	7.22	34.25	1.13	26.82	123.7	0.971	
267p	8.95u	34.04u	0.77u	500	6.40	34.32	0.52	26.99	107.6	1.087	1.109
430p	6.81	34.29	3.76u	600	5.69	34.44	0.37	27.18	90.0	1.186	
641p	5.56	34.45	0.38	700	5.18	34.45	0.46	27.24	83.9	1.273	
				800	4.67	34.46	0.60	27.31	77.7	1.354	
0	20.56u	34.23u	5.29	1000	4.01	34.53	0.73	27.43	65.6	1.497	1.550
10	20.58u	34.22u	5.29u	1200	3.45	34.58	0.99	27.53	56.1	1.619	
141	17.58	34.48	5.29	1500	2.80	34.61	1.40	27.62	48.2	1.776	
188	12.77	33.75	4.76	2000	2.15	34.67	2.03	27.72	38.6	1.994	
235	10.37	33.93	3.52								
282	8.90	34.08	3.82								
329	8.06	34.09	2.18								
374	7.59	34.20	1.54								
462	6.66	34.29	0.65								
617	5.61	34.45	0.38								
754	4.86	34.45	0.56								
937	4.23	34.52	0.68								
1112	3.72	34.57	0.84								
1354	3.12	34.60	1.20								
1599	2.66	34.62	1.49								
1873	2.26	34.66	1.88								
2255	1.92	34.68	2.32								

NORPAC
Station
139

NORPAC Station 140; SPENCER F. BAIRD; August 18, 1955; 0930 GCT; 21°52.5'N, 130°32'W; sounding, 2000 fm; wind 045°, force 2; weather, overcast; sea, moderate; wire angle, 17°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	20.73	34.76	5.19	0	20.73	34.76	5.19	24.41	353.0	0.000		
10	20.74	34.76	5.16	10	20.74	34.76	5.16	24.41	353.2	0.035		
24	20.74	34.74	5.25	20	20.74	34.75	5.23	24.39	354.3	0.071		
51	20.50	34.74	5.29	30	20.71	34.74	5.29	24.40	354.0	0.106		
66	20.35	34.77	5.32	50	20.51	34.74	5.29	24.45	349.0	0.176		
80	19.54	34.74	5.44	75	20.00	34.77	5.39	24.60	334.4	0.262		
102	18.70	34.66	5.42	100	18.73	34.66	5.42	24.85	310.7	0.342		
125	18.13	34.65	5.40	150	17.57	34.61	5.28	25.10	287.0	0.492		
153	17.48	34.60	5.26	200	12.06	33.86	4.44	25.72	228.5	0.620	0.625	
203	11.84	33.86	4.38	250	10.30	34.13	3.16	26.25	178.0	0.722		
268	9.80	34.21	2.68	300	9.15	34.26	2.18	26.54	150.8	0.804		
365	8.11	34.27	1.45	400	7.60	34.28	1.14	26.79	126.4	0.943		
485	6.67	34.34	0.57	500	6.58	34.36	0.52	27.00	106.6	1.059	1.080	
647	5.86	34.46	0.34	600	6.03	34.44	0.35	27.13	94.1	1.160		
865	4.80	34.51	0.51	700	5.63	34.48	0.35	27.21	87.0	1.250		
1116	3.89	34.55	0.80	800	5.11	34.50	0.44	27.29	79.4	1.334		
1419	3.06	34.59	1.22	1000	4.26	34.53	0.67	27.41	68.0	1.481	1.533	
				1200	3.70	34.56	0.89	27.49	60.2	1.610		

NORPAC
Station
140

NORPAC Station 141; SPENCER F. BAIRD; August 20, 1955; 0527, 0659 GCT; 21°52'N, 133°51'W; sounding, 2000 fm; wind 040°, force 3; weather, missing; sea, moderate; wire angle, 17°, 12°.

Z	OBSERVED			INTERPOLATED				COMPUTED		
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	21.04	34.78	5.20	0	21.04	34.78	5.20	24.33	360.0	0.000
10	21.02	34.77	5.02	10	21.02	34.77	5.02	24.33	360.0	0.036
24	21.01	34.79	5.24	20	21.01	34.79	5.23	24.35	358.8	0.072
54	20.78	34.76	5.33	30	21.00	34.79	5.26	24.35	358.1	0.108
62	20.14	34.72	5.33	50	20.92	34.78	5.30	24.37	357.0	0.179
73	19.90	34.71	5.28	75	19.87	34.71	5.28	24.60	335.2	0.266
86	19.56	34.74	5.23	100	19.35	34.83	5.20	24.82	313.9	0.347
106	19.25	34.84	5.19	150	18.27	34.73	5.00	25.02	294.9	0.498
130	18.76	34.80	5.09	200	15.92	34.31	4.90	25.26	271.9	0.640
157	18.11	34.70	4.99	250	12.00	34.04	4.50	25.87	214.2	0.762
207	15.12	34.21	4.87	300	10.03	34.04	3.84	26.22	180.9	0.860
277	10.65	34.02	4.19	400	7.90	34.24	1.57	26.71	133.9	1.018
373	8.25	34.21	1.99	500	6.86	34.30	0.77	26.91	115.2	1.142
504	6.64u	34.32u	0.63u	600	5.90	34.37	0.53	27.09	98.2	1.249
692	5.41	34.45	0.53	700	5.40	34.45	0.53	27.22	85.9	1.341
				800	4.80	34.49	0.60	27.32	76.7	1.422
				1000	4.11	34.52	0.81	27.42	67.1	1.566
				1200	3.60	34.58	0.96	27.51	58.0	1.692
				1500	2.80	34.60	1.33	27.60	49.8	1.854
				2000	2.12	34.68	2.10	27.73	37.2	2.091
0	21.01u	34.80u	5.17u							
10	21.00u	34.79u	5.22u							
502	6.98u	34.28u	0.82u							
653	5.50	34.41	0.54							
815	4.78	34.49	0.60							
1004	4.11	34.52	0.81							
1193	3.63	34.58	0.94							
1455	2.96	34.60	1.32							
1719	2.46	34.61	1.84							
2007	2.09	34.68	2.09							
2402	1.80	34.69	2.51							

NORPAC
Station
141

NORPAC Station 142; SPENCER F. BAIRD; September 16, 1955; 1218, 1358 GCT; 23°25'N, 113°02'W; sounding, 1700 fm; wind 310°, force 2; weather, clear; sea, slight; wire angle, 19°, 28°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	26.23	33.84	4.79	0	26.23	33.84	4.79	22.11	572.9	0.000	
9	19.96	33.67	5.54	10	19.84	33.67	5.55	23.81	409.9	0.049	
24	18.02	33.65	5.72	20	18.55	33.66	5.66	24.13	379.2	0.089	
53	13.36	33.39	5.90	30	17.20	33.61	5.79	24.42	351.9	0.125	
62	12.25	33.37	5.11	50	13.80	33.41	5.91	25.02	295.0	0.190	
72	11.64	33.40	5.01	75	11.45	33.41	4.92	25.48	251.2	0.258	
84	11.00	33.44	4.47	100	10.35	33.56	3.89	25.79	221.3	0.317	
103	10.30	33.58	3.83	150	11.16	34.39	1.20	26.28	174.6	0.413	
126	10.61	34.09	2.14	200	10.38	34.36	1.18	26.41	162.6	0.498	0.502
152	11.21	34.41	1.12	250	10.03	34.49	0.67	26.57	147.4	0.575	
201	10.36	34.36	1.18	300	9.60	34.55	0.39	26.69	135.9	0.646	
268	9.88	34.54	0.53	400	8.50	34.54	0.22	26.86	119.8	0.774	
360	9.00	34.56	0.25	500	7.37	34.51	0.19	27.00	106.2	0.887	0.903
489	7.47	34.51	0.18	600	6.60	34.52	0.20	27.11	95.9	0.988	
669	6.12	34.53	0.23	700	5.90	34.52	0.23	27.21	87.1	1.079	
				800	5.20	34.48	0.24	27.26	81.7	1.164	
				1000	4.18	34.50	0.50	27.40	69.2	1.314	1.358
				1200	3.59	34.56	0.78	27.50	59.4	1.443	
				1500	2.95	34.60	1.20	27.60	50.2	1.608	
				2000	2.16	34.63	1.90	27.68	41.9	1.839	
0	26.02u	33.86u	4.81u								
9	20.78u	33.68u	5.45u								
447	8.26u	34.49u	0.21u								
605	6.58	34.52	0.21								
753	5.56	34.49	0.23								
930	4.44	34.48	0.40								
1106	3.83	34.54	0.67								
1351	3.20	34.58	0.96								
1597	2.74	34.60	1.31								
1872	2.28	34.62	1.73								
2250	1.93	34.64	2.31								

NORPAC
Station
142

NORPAC Station 143; SPENCER F. BAIRD: September 16, 1955; 1955 GCT; 23°59.5'N, 113°44.5'W; sounding, 1900 fm; wind 020°, force 1; weather, partly cloudy; sea, moderate; wire angle 12°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	27.56	34.17	4.74	0	27.56	34.17	4.74	21.94	589.2	0.000		
10	27.02	34.16	4.78	10	27.02	34.16	4.78	22.10	573.2	0.058		
24	19.46	34.09	5.31	20	21.60	34.10	5.24	23.67	423.8	0.108		
55	14.58	34.05	3.51	30	18.75	34.08	5.23	24.40	353.7	0.147		
68	13.32	34.13	1.96	50	15.60	34.05	4.37	25.13	284.7	0.211		
84	12.00	34.04	1.85	75	12.71	34.08	1.87	25.76	224.1	0.274		
107	10.80	34.03	2.07	100	11.01	34.02	2.02	26.04	198.0	0.327		
130	10.42	34.21	1.63	150	11.21	34.50	1.06	26.37	166.0	0.418		
159	10.62	34.41	1.11	200	10.28	34.48	0.81	26.52	151.8	0.497	0.501	
210	10.18	34.49	0.74	250	9.63	34.47	0.61	26.62	142.4	0.571		
275	9.29	34.46	0.53	300	9.14	34.48	0.44	26.71	134.0	0.640		
372	8.61	34.54	0.19	400	8.33	34.54	0.16	26.88	117.9	0.766		
494	7.30	34.49	0.21	500	7.23	34.49	0.20	27.00	106.2	0.878		
655	5.87	34.47	0.21	600	6.29	34.47	0.21	27.12	95.3	0.979		
873	4.70	34.49	0.34	700	5.60	34.47	0.22	27.21	86.6	1.070		
1123	3.83	34.52	0.63	800	5.09	34.48	0.28	27.28	80.3	1.153		
1422	3.12	34.61	1.06	1000	4.22	34.50	0.49	27.39	69.8	1.303	1.347	
				1200	3.60	34.54	0.76	27.48	60.9	1.434		

NORPAC
Station
143

NORPAC Station 144; SPENCER F. BAIRD; September 17, 1955; 0452 GCT; 23°26'N, 114°56'W; sounding, 2000 fm; wind 360°, force 0; weather, clear; sea, slight; wire angle 0°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	27.00	34.03	4.70	0	27.00	34.03	4.70	22.01	582.0	0.000	0.000	
10	26.50	34.05	4.73	10	26.50	34.05	4.73	22.19	565.2	0.057	0.057	
25	21.95	34.07	5.26	20	22.70	34.07	5.17	23.33	455.7	0.108	0.108	
55	19.71	34.04	5.44	30	21.52	34.07	5.30	23.66	424.1	0.152	0.152	
65	18.48	33.80	5.60	50	20.03	34.05	5.41	24.05	387.6	0.234	0.234	
70	16.42	33.58	5.73	75	16.13	33.58	5.68	24.64	330.7	0.323	0.323	
90	15.25	33.57	5.50	100	13.79	33.54	4.92	25.12	285.2	0.400	0.400	
110	12.16	33.53	4.09	150	11.10	33.91	2.52	25.93	208.1	0.520	0.520	0.620
136	11.40	33.78	3.11	200	10.68	34.32	1.48	26.32	170.9	0.615	0.615	
165	10.91	34.06	2.18	250	9.98	34.47	0.86	26.56	148.1	0.695	0.695	
217	10.42	34.40	1.24	300	9.38	34.50	0.57	26.69	136.2	0.766	0.766	
293	9.46	34.50	0.62	400	8.23	34.47	0.31	26.85	121.3	0.895	0.895	
396	8.27	34.47	0.33	500	7.19	34.47	0.21	27.00	106.9	1.009	1.009	1.029
532	6.94	34.47	0.19	600	6.35	34.46	0.21	27.11	96.7	1.111	1.111	
720	5.44	34.45	0.31	700	5.58	34.45	0.28	27.20	88.2	1.203	1.203	

NORPAC
Station
144

NORPAC Station 145; SPENCER F. BAIRD; September 13, 1955; 0930 GCT; 22°26.5'N, 116°48'W; sounding, 2200 fm; wind 350°, force 1; weather, overcast; sea, moderate; wire angle 14°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	24.86	34.29	4.74	0	24.86	34.29	4.74	22.87	500.0	0.000
10	24.48	34.30	4.74	10	24.48	34.30	4.74	22.99	488.8	0.049
23	22.36	34.11	5.10	20	22.98	34.17	5.00	23.34	455.2	0.097
53	13.88	33.93	5.53	30	20.98	34.02	5.30	23.76	414.6	0.140
68	17.08	33.62	5.76	50	19.11	33.94	5.49	24.21	372.3	0.219
82	16.16	33.56	5.74	75	16.57	33.58	5.75	24.54	340.2	0.308
107	14.24	33.53	5.41	100	14.78	33.53	5.51	24.91	305.5	0.389
130	11.86	33.58	4.08	150	11.38	33.92	3.00	25.89	212.0	0.517
158	11.36	34.07	2.38	200	11.00	34.35	1.30	26.29	173.9	0.614
251p	9.61	34.42	0.87	250	9.61	34.42	0.87	26.58	146.1	0.694
417p	8.18	34.45	0.31	300	9.18	34.43	0.60	26.67	138.0	0.765
584p	6.30	34.49	0.29	400	8.35	34.45	0.32	26.81	124.5	0.896
822p	5.00	34.47	0.35	500	7.27	34.47	0.29	26.98	108.1	1.012
1122p	3.90	34.55	0.52	600	6.19	34.49	0.29	27.15	92.1	1.112
1417p	3.16	34.57	1.02	700	5.59	34.48	0.30	27.22	85.9	1.202
				800	5.14	34.47	0.34	27.26	81.8	1.285
				1000	4.30	34.53	0.43	27.41	68.1	1.435
				1200	3.67	34.56	0.65	27.49	60.2	1.563

NORPAC
Station
145

0.619

1.032

1.485

NORPAC Station 146; SPENCER F. BAIRD; September 12, 1955; 1755, 1944 GCT; 21°21.5'N, 118°40'W; sounding, 2000 fm; wind 330°, force 1; weather, cloudy; sea, slight; wire angle 05°, 05°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	24.39	34.14	5.19	0	24.39	34.14	5.19	22.90	497.2	0.000	
10	23.82	34.14	5.12	10	23.82	34.14	5.12	23.07	481.1	0.049	
25	21.32	34.04	5.52	20	23.60	34.14	5.15	23.18	469.9	0.097	
56	17.32	33.62	6.22	30	19.71	33.84	5.88	23.98	393.9	0.140	
65	16.60	33.57	6.04	50	17.65	33.64	6.20	24.34	359.5	0.215	
75	15.70	33.52	5.93	75	15.70	33.52	5.93	24.70	325.3	0.301	
90	14.76	33.48	5.79	100	14.10	33.47	5.55	25.01	295.7	0.378	
109	13.52	33.46	5.31	150	11.38	33.77	3.33	25.78	222.8	0.508	
133	11.91	33.60	4.18	200	10.20	34.19	2.25	26.31	172.0	0.607	0.612
161	11.08	33.91	2.88	250	9.82	34.47	1.03	26.59	145.5	0.687	
212	10.43	34.36	1.39	300	9.12	34.52	0.80	26.74	131.1	0.756	
290	9.27	34.52	0.87	400	7.78	34.43	0.40	26.88	117.9	0.880	
393	7.84	34.43	0.42	500	7.00	34.49	0.28	27.04	102.7	0.990	1.009
532	6.64u	34.47u	0.29u	600	6.35	34.48	0.31	27.12	95.8	1.090	
722	5.42u	34.44u	0.46u	700	5.44	34.48	0.47	27.23	84.5	1.180	
				800	4.97	34.53	0.38	27.33	75.8	1.260	
				1000	4.30	34.54	0.57	27.41	67.8	1.404	1.453
				1200	3.60	34.59	0.81	27.52	57.2	1.528	
				1500	2.99	34.60	1.22	27.60	50.1	1.689	
				2000	2.20	34.67	2.12	27.72	38.2	1.910	
0	24.53u	34.16u	5.04u								
10	23.76u	34.14	5.09u								
492	7.10u	34.51u	0.28u								
662	5.70u	34.47u	0.33u								
822	4.94	34.53	0.38								
1013	4.22	34.54	0.60								
1203	3.60	34.59	0.81								
1467	3.01	34.60	1.17								
1733	2.50	34.67	1.70								
2029	2.11	34.67	2.13								

NORPAC
Station
146

NORPAC Station 147; SPENCER F. BAIRD; September 11, 1955; 2050, 2305 GCT; 20°03'N, 121°17.5'W; sounding, 2000 fm; wind 260°, force 2; weather, cloudy; sea, slight; wire angle, 15°, 15°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD	ΔD
0	23.78	34.39	4.85	0	23.78	34.39	4.85	23.27	462.0	0.000		
9	23.71	34.38	4.98	10	23.72	34.38	4.98	23.28	460.6	0.046		
24	23.66	34.40	4.92	20	23.68	34.40	4.93	23.31	458.0	0.092		
53	20.68	34.22	5.33	30	23.44	34.39	4.90	23.37	452.1	0.138		
63	20.64	34.51	5.31	50	20.80	34.22	5.37	23.98	394.0	0.222		
75	20.16	34.45	5.37	75	20.16	34.45	5.37	24.32	361.2	0.317		
87	18.63	34.03	5.53	100	17.30	33.83	5.47	24.57	337.8	0.404		
106	16.82	33.81	5.46	150	12.24	33.92	3.29	25.72	228.1	0.546		
131	14.02	33.75	4.66	200	11.06	34.38	1.27	26.31	172.6	0.646	0.651	
159	11.65	33.98	2.76	250	10.29	34.49	0.88	26.52	151.8	0.727		
213	10.77	34.41	1.16	300	9.75	34.53	0.51	26.65	140.2	0.800		
288	9.88	34.52	0.57	400	8.28	34.51	0.34	26.87	119.5	0.930		
389	8.43	34.51	0.34	500	7.23	34.49	0.29	27.01	106.1	1.043	1.063	
524	6.79u	34.47u	0.36u	600	6.38	34.49	0.41	27.12	95.0	1.144		
711	5.48u	34.49u	0.27u	700	5.68	34.50	0.52	27.23	85.3	1.234		
				800	5.25	34.54	0.28	27.30	78.0	1.316		
0	23.80u	34.36u	4.86u	1000	4.33	34.56	0.51	27.42	66.6	1.460	1.511	
10	23.76u	34.38u	4.92u	1200	3.75	34.57	0.80	27.49	59.8	1.587		
475	7.71u	34.51u	0.25u	1500	3.00	34.62	1.43	27.61	48.8	1.750		
635	6.17u	34.51u	0.28u	2000	2.18	34.66	2.01	27.70	40.0	1.972		
789	5.28	34.54	0.52u									
967	4.46	34.55	0.44									
1147	3.88	34.56	0.64									
1397	3.22	34.60	1.16									
1650	2.68	34.64	1.66									
1926	2.26	34.65	1.93									
2306	1.92	34.66	2.38									

NORPAC
Station
147

NORPAC Station 148; SPENCER F. BAIRD; September 11, 1955; 0233 GCT; 19°59.5'N, 124°06'W; sounding, 2000 fm; wind 340°, force 2; weather, cloudy; sea, slight; wire angle, 25°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	22.62	34.54	5.17	0	22.62	34.54	5.17	23.71	419.2	0.000	
9	22.63	34.51	5.09	10	22.64	34.51	5.08	23.68	422.0	0.042	
22	21.28r	34.49	5.20	20	22.64	34.50	5.18	23.68	422.0	0.084	
49	20.72	34.42	5.44	30	22.63	34.49	5.22	23.68	422.0	0.126	
62	19.73	34.27	5.50	50	20.60	34.40	5.48	24.18	374.5	0.206	
75	19.03	34.22	5.54	75	19.03	34.22	5.54	24.44	350.0	0.297	
96	18.37	34.13	5.56	100	18.15	34.11	5.53	24.58	337.0	0.383	
116	17.06	34.00	5.38	150	12.80	33.81	4.62	25.53	246.5	0.532	
141	13.81	33.77	4.98	200	10.45	34.14	2.50	26.22	180.6	0.639	0.644
187	10.92	34.02	2.97	250	10.45	34.60	0.88	26.58	146.5	0.721	
246	10.53	34.60	0.90	300	9.72	34.54	0.60	26.66	138.9	0.792	
364	8.93	34.49	0.48	400	8.40	34.47	0.72	26.82	123.8	0.923	
442	7.72	34.47	1.13	500	7.00	34.51	0.70	27.06	101.3	1.036	1.056
591	6.31	34.52	0.27	600	6.22	34.52	0.27	27.17	91.0	1.132	
790	5.28	34.52	0.29	700	5.68	34.52	0.27	27.23	84.7	1.220	
1024	4.15	34.56	0.55	800	5.25	34.52	0.30	27.29	79.5	1.302	
1320	3.34	34.63	0.98	1000	4.24	34.55	0.51	27.43	65.9	1.448	1.499
				1200	3.65	34.61	0.78	27.53	56.1	1.570	

NORPAC
Station
148

NORPAC Station 149; SPENCER F. BAIRD; September 10, 1955; 0616, 0815 GCT; 19°56'N, 126°52'W; sounding, 2400 fm; wind 020°, force 3; weather, partly cloudy; sea, moderate; wire angle, 12°, 13°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	21.98r	34.72	4.99u	0	22.58	34.72	5.00	23.86	405.0	0.000	
10	22.56	34.72	5.04	10	22.56	34.72	5.04	23.87	404.3	0.040	
25	22.54	34.71	5.04	20	22.54	34.71	5.04	23.87	404.2	0.081	
53	21.48	34.59	5.22	30	22.49	34.70	5.05	23.87	404.2	0.121	
63	20.36	34.51	5.35	50	22.29	34.66	5.10	23.91	400.1	0.202	
74	19.94	34.47	5.37	75	19.90	34.46	5.39	24.40	353.9	0.296	
88	19.29	34.38	5.40	100	18.81	34.34	5.30	24.59	336.1	0.382	
106	18.58	34.33	5.24	150	15.83	34.06	4.73	25.08	289.3	0.540	
131	17.86	34.34	5.07	200	12.01	34.06	3.10	25.88	213.4	0.665	0.670
158	14.74	33.95	4.53	250	10.19	34.21	2.35	26.33	170.6	0.761	
209	11.59	34.08	2.88	300	9.10	34.35	1.68	26.62	142.6	0.840	
281	9.40	34.31	2.03	400	7.99	34.43	0.46	26.86	120.2	0.971	
382	8.12	34.43	0.52	500	6.96	34.44	0.30	27.01	105.7	1.084	1.109
518	6.62	34.45	0.30	600	6.19	34.46	0.20	27.13	94.7	1.184	
707	5.39	34.49	0.34	700	5.41	34.49	0.32	27.24	83.6	1.273	
				800	5.04	34.51	0.42	27.30	78.0	1.354	
0	22.58	34.72	5.00	1000	4.23	34.53	0.58	27.41	67.9	1.500	1.553
10	20.11r	34.71u	5.00u	1200	3.60	34.59	0.86	27.53	56.7	1.624	
473	7.35	34.44	0.33	1500	2.90	34.61	1.48	27.61	48.9	1.782	
640	5.93	34.47	0.19	2000	2.20	34.65	2.06	27.71	39.5	2.002	
800	5.04	34.51	0.42	2500	1.80	34.67	2.53	27.74	36.5		
1035	4.14	34.54	0.61	3000	1.57	34.69	2.93	27.78	32.2		
1270	3.40	34.60	0.97								
1602	2.68	34.62	1.65								
1982	2.15	34.65	2.05								
2364	1.86	34.66	2.42								
2841	1.62	34.69	2.81								
3325	1.50	34.69	3.17								
3819	1.51	34.71	3.26								

NORPAC
Station
149

NORPAC Station 150; SPENCER F. BAIRD; September 9, 1955; 1141 GCT; 19°57.5'N, 129°44'W; sounding, 2000 fm; wind 020°, force 4; weather, obscured; sea, rough; wire angle 21°.

OBSERVED				INTERPOLATED				COMPUTED				
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	Δ'	ΔD
0	22.57	34.85	5.09	0	22.57	34.85	5.09	23.97	395.2	0.000		
10	22.58	34.83	5.04	10	22.58	34.83	5.04	23.95	397.0	0.040		
23	22.61	34.83	5.11	20	22.60	34.83	5.10	23.94	397.5	0.079		
51	21.48	34.61	5.25	30	22.57	34.61	5.16	23.93	398.3	0.119		
65	20.24	34.43	5.48	50	21.60	34.63	5.23	24.07	385.1	0.197		
79	19.86	34.43	5.48	75	19.94	34.42	5.48	24.35	358.1	0.290		
101	19.38	34.47	5.32	100	19.39	34.47	5.32	24.54	340.8	0.378		
123	18.40	34.41	5.26	150	14.20	33.94	4.62	25.35	263.7	0.532		
148	14.41	33.95	4.65	200	10.48	33.85	4.14	26.00	201.8	0.649	0.654	
196	10.68	33.85	4.20	250	8.88	34.01	3.45	26.39	164.5	0.740		
258	8.77	34.04	3.32	300	8.38	34.23	1.34	26.63	141.3	0.817		
350	8.01	34.31	1.05	400	7.45	34.32	1.13	26.84	121.8	0.948		
464	6.64	34.37	1.27	500	6.40	34.41	1.05	27.06	101.4	1.060	1.081	
619	5.84	34.47	0.32	600	5.93	34.47	0.34	27.16	91.2	1.156		
832	4.83	34.52	0.45	700	5.48	34.49	0.34	27.24	84.0	1.244		
1077	3.88	34.56	0.75	800	5.00	34.51	0.42	27.31	76.9	1.324		
1385	3.14	34.61	1.20	1000	4.20	34.55	0.65	27.43	66.0	1.467	1.519	
				1200	3.55	34.58	0.93	27.52	57.2	1.590		

NORPAC
Station
150

NORPAC Station 151; SPENCER F. BAIRD; September 8, 1955; 1205, 1440 GCT; 20°00'N, 132° 45.5'W; sounding, 2000 fm; wind 020°, force 4; weather, cloudy; sea, moderate; wire angle, 33°, 19°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	22.5	34.81	5.05	0	22.5	34.81	5.05	23.95	396.5	0.000
8	22.54	34.81	5.02	10	22.53	34.82	5.02	23.95	396.8	0.040
21	22.46	34.82	5.03	20	22.45	34.82	5.03	23.97	394.5	0.079
45	21.60	34.72	5.12	30	22.24	34.79	5.04	24.02	390.4	0.118
53	20.82	34.67	5.31	50	21.08	34.68	5.25	24.25	367.9	0.194
61	20.30	34.61	5.34	75	19.95	34.68	5.40	24.54	340.0	0.283
73	20.00	34.67	5.41	100	19.13	34.67	5.30	24.76	319.8	0.365
87	19.42	34.68	5.31	150	16.00	34.20	4.81	25.15	282.0	0.516
104p	19.02	34.61r	5.23r	200	12.20	34.02	3.91	25.81	219.2	0.642
105	19.00	34.67	5.28	250	10.26	34.11	3.00	26.23	179.5	0.741
127	17.94	34.50	5.10	300	8.70	34.21	1.88	26.57	147.3	0.823
169	14.43	34.04	4.57	400	7.34	34.32	0.91	26.86	120.4	0.957
367p	7.67	34.29	1.20	500	6.54	34.38	0.47	27.01	105.3	1.070
557p	6.38	34.47r	0.43	600	6.08	34.43	0.38	27.12	95.8	1.171
				700	5.39	34.48	0.41	27.24	83.9	1.260
0	22.45u	34.79u	5.03u	800	4.97	34.50	0.48	27.31	77.3	1.341
8	22.46u	34.81	4.95u	1000	4.22	34.53	0.66	27.41	67.8	1.486
468	6.73	34.36	0.50	1200	3.55	34.59	0.95	27.52	57.1	1.611
630	5.83	34.45	0.36	1500	3.00	34.61	1.35	27.60	50.1	1.772
785	5.00	34.50	0.47	2000	2.18	34.66	2.08	27.71	39.8	1.996
965	4.35	34.52	0.62							
1147	3.74	34.57	0.85							
1396	3.14	34.60	1.17							
1644	2.66	34.61	1.54							
1920	2.24	34.65	1.95							
2302	1.90	34.66	2.36							

NORPAC
Station
151

NORPAC Station 152; SPENCER F. BAIRD; September 7, 1955; 1752 GCT; 20°03.5'N, 135°32'W; sounding, 2000 fm; wind 030°, force 2; weather, partly cloudy; sea, moderate; wire angle, 24°.

Z	OBSERVED			INTERPOLATED			COMPUTED				
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔΔ'	ΔΔ
0	22.27	34.77	5.19	0	22.27	34.77	5.19	23.98	393.5	0.000	
9	22.24	34.76	5.21	10	22.25	34.76	5.21	23.98	393.4	0.039	
23	22.24	34.74	5.35	20	22.25	34.74	5.33	23.97	394.7	0.079	
51	21.81	34.73	5.34	30	22.13	34.74	5.37	24.01	391.4	0.118	
63	21.72	34.77	5.08	50	21.82	34.73	5.32	24.08	384.0	0.195	
77	21.16	34.77	5.30	75	21.20	34.77	5.28	24.29	364.7	0.289	
99	19.75	34.66	5.39	100	19.72	34.66	5.38	24.59	335.8	0.376	
120	19.45	34.69	4.65	150	18.56	34.58	5.02	24.83	312.7	0.539	0.685
146	18.86	34.62	5.02	200	14.09	34.09	4.25	25.49	250.1	0.679	
192	14.56	34.07	4.39	250	11.49	34.18	2.71	26.07	195.3	0.791	
252	11.20	34.18	2.63	300	9.59	34.17	2.51	26.40	163.9	0.880	
341	8.49	34.16	2.35	400	7.78	34.27	1.47	26.76	129.9	1.028	
451	7.21	34.32	0.74	500	6.76	34.34	0.74	26.96	110.6	1.148	1.172
603	5.89	34.40	0.80	600	5.94	34.40	0.80	27.11	96.0	1.251	
807	4.92	34.47	0.56	700	5.37	34.43	0.57	27.21	86.8	1.342	
1044	3.96	34.56	0.79	800	4.98	34.46	0.55	27.28	80.3	1.426	
1343	3.20	34.56	1.20	1000	4.10	34.54	0.73	27.44	65.2	1.572	1.629
				1200	3.51	34.56	1.03	27.51	58.2	1.695	

NORPAC
Station
152

NORPAC Station 153; SPENCER F. BAIRD; September 6, 1955; 2052, 2308 GCT; 20°07'N, 138°22.5'W; sounding, 2800 fm; wind 065°, force 1; weather, partly cloudy; sea, moderate; wire angle, 00°, 00°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	ΔD
0	23.24	34.74	4.98	0	23.24	34.74	4.98	23.69	421.8	0.000	
10	23.00	34.74	4.92	10	23.00	34.74	4.92	23.76	414.9	0.042	
25	22.98	34.75	4.94	20	22.98	34.75	4.93	23.77	413.8	0.083	
55	22.95	34.76	4.98	30	22.98	34.75	4.94	23.78	413.1	0.124	
65	22.92	34.76	4.94	50	22.95	34.76	4.98	23.79	412.1	0.207	
75	21.70	34.68	5.14	75	21.70	34.68	5.14	24.08	384.6	0.307	
90	20.56	34.69	5.09	100	20.00	34.70	5.07	24.55	339.8	0.397	
109	19.62	34.72	5.01	150	18.40	34.76	4.89	25.01	295.3	0.555	
132	19.32	34.87	5.09	200	13.69	34.12	4.07	25.60	240.0	0.689	0.695
161	17.52	34.62	4.51	250	11.02	34.12	4.16	26.10	191.8	0.797	
210	13.07	34.10	4.05	300	9.43	34.14	4.20	26.40	163.9	0.886	
290	9.68	34.14	4.26	400	7.51	34.22	1.45	26.75	130.0	1.033	
395	7.58	34.21	1.60	500	6.60	34.32	0.69	26.96	110.5	1.153	1.177
534	6.13	34.35	0.52	600	5.70	34.39	0.48	27.13	94.5	1.256	
721	5.10	34.46	0.52	700	5.23	34.44	0.49	27.23	84.9	1.345	
				800	4.81	34.50	0.57	27.32	76.1	1.426	
0	23.56u	34.74	4.89u	1000	4.07	34.53	0.78	27.43	66.2	1.568	1.625
10	23.04u	34.74	4.92	1200	3.25	34.60	1.15	27.57	52.8	1.687	
492	6.66	34.31	0.71	1500	2.70	34.65	1.64	27.71	44.8	1.834	
659	5.45	34.42	0.47	2000	2.15	34.65	2.20	27.71	39.7	2.044	
818	4.80	34.50	0.58	2500	1.80	34.67	2.64	27.74	36.4		
1053	3.87	34.54	0.86	3000	1.59	34.68	2.95	27.77	33.3		
1190	3.28	34.60	1.14	4000	1.45	34.70		27.79	31.2		
1624	2.62	34.65u	1.60								
2011	2.09	34.65	2.20								
2400	1.82	34.67	2.55								
2889	1.62	34.67	2.87								
3376	1.52	34.70	3.13								
3866	1.46	34.63r	2.88								
4364	1.44	34.70	3.71r								

NORPAC
Station
153

NORPAC Station 154; SPENCER F. BAIRD; September 6, 1955; 0223 GCT; 20°01'N, 141°16.5'W; sounding, 2000 fm; wind 005°, force 2; weather, cloudy; sea, moderate; wire angle, 14°.

OBSERVED				INTERPOLATED				COMPUTED			
Z	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	ΔD
0	23.25	34.76	5.04	0	23.25	34.76	5.04	23.70	420.8	0.000	
10	23.09	34.76	5.01	10	23.09	34.76	5.01	23.75	416.0	0.042	
24	23.03	34.76	5.03	20	23.03	34.76	5.02	23.76	414.8	0.083	
53	23.01	34.73	5.04	30	23.02	34.75	5.03	23.76	414.8	0.125	
68	22.69	34.70	5.08	50	23.01	34.74	5.03	23.75	415.8	0.208	
82	20.02	34.52	5.15	75	21.10	34.59	5.14	24.17	375.3	0.307	
106	17.88	34.58	4.48	100	18.26	34.40	4.62	24.77	318.2	0.394	
129	16.23	34.29	4.01	150	14.67	34.18	3.69	25.43	255.3	0.537	0.656
156	14.26	34.16	3.60	200	11.79	34.14	3.10	25.98	203.0	0.651	
207	11.48	34.14	3.10	250	9.71	34.12	3.62	26.33	170.0	0.744	
273	9.04	34.11	3.75	300	8.73	34.25	3.32	26.60	144.6	0.823	
369	8.30	34.40	0.86	400	8.01	34.39	0.72	26.82	123.9	0.957	
489	6.68	34.38	0.54	500	6.59	34.39	0.51	27.02	104.9	1.072	1.093
653	5.82	34.49	0.46	600	6.07	34.46	0.46	27.14	93.0	1.171	
873	4.76	34.52	0.64	700	5.60	34.50	0.50	27.23	85.1	1.260	
1122	3.99	34.58	0.90	800	5.15	34.51	0.55	27.29	79.3	1.342	
1426	3.19	34.60	1.26	1000	4.35	34.55	0.78	27.42	67.3	1.489	1.541
				1200	3.80	34.59	1.00	27.50	58.9	1.615	

NORPAC
Station
154

NORPAC Station 155; SPENCER F. BAIRD; September 5, 1955; 0323, 0456 GCT; 19°57.5'N, 144°15'W; sounding, 2000 fm; wind 040°, force 3; weather, overcast; sea, moderate; wire angle, 18°, 30°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	ΔD
0	23.55	34.73	4.92	0	23.55	34.73	4.92	23.59	431.0	0.000
10	23.48	34.75	4.93	10	23.48	34.75	4.93	23.62	427.8	0.043
24	23.40	34.71	4.89	20	23.42	34.72	4.90	23.62	427.9	0.086
53	23.40	34.74	4.92	30	23.40	34.72	4.90	23.63	427.3	0.129
62	23.41	34.70	4.91	50	23.40	34.74	4.92	23.64	426.2	0.214
72	23.44	34.71	4.86	75	23.41	34.72	4.86	23.62	427.9	0.321
85	23.34	34.73	4.89	100	22.92	34.76	4.88	23.80	410.8	0.426
104	22.87	34.76	4.88	150	15.30	34.21	3.16	25.32	266.2	0.595
127	18.58	34.28	3.60	200	11.93	34.22	2.40	26.02	199.8	0.711
154	14.92	34.21	3.15	250	9.80	34.23	2.40	26.40	163.3	0.802
204	11.72	34.22	2.39	300	8.67	34.26	1.64	26.61	143.3	0.879
272	9.18	34.23	2.41	400	7.79	34.35	0.80	26.82	123.8	1.012
366	8.20u	34.34u	0.97u	500	6.75	34.41	0.53	27.01	105.5	1.127
493	6.80	34.41	0.52	600	6.22	34.45	0.51	27.11	96.1	1.228
676	5.60	34.50	0.40	700	5.46	34.51	0.45	27.25	82.7	1.317
				800	5.00	34.52	0.56	27.32	76.8	1.397
0	23.52u	34.74u	4.90u	1000	4.27	34.53	0.88	27.41	67.9	1.542
9	23.53u	34.76u	4.82u	1200	3.60	34.56	1.14	27.50	59.5	1.669
429	7.38u	34.37u	0.71u	1500	2.90	34.62	1.50	27.62	48.2	1.831
578	6.40	34.44	0.52	2000	2.10	34.65	2.02	27.70	40.1	2.054
720	5.39	34.51	0.48							
891	4.69	34.52	0.66							
1059	4.04	34.54	0.96							
1292	3.34	34.59	1.24							
1531	2.80	34.62	1.57							
1799	2.38	34.64	1.85							
2170	1.97	34.65	2.29							

NORPAC
Station
155

NORPAC Station 156; SPENCER F. BAIRD; September 4, 1955; 0749 GCT; 20°02'N, 147°08'W; sounding, 2000 fm; wind 065°, force 3; weather, partly cloudy; sea, moderate; wire angle 22°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	23.86	34.84	4.91	0	23.86	34.84	4.91	23.58	431.8	0.000
9	23.85	34.81	4.95	10	23.85	34.82	4.95	23.56	433.8	0.043
22	23.85	34.83	4.98	20	23.85	34.83	4.98	23.57	432.7	0.087
49	23.79	34.85	4.90	30	23.81	34.84	4.95	23.59	430.8	0.130
62	23.80	34.83	4.89	50	23.80	34.85	4.90	23.61	428.8	0.216
75	23.75	34.79	4.93	75	23.75	34.79	4.93	23.57	432.8	0.323
96	21.84	34.94	5.19	100	21.40	34.92	5.15	24.34	359.3	0.422
118	20.28	34.82	4.99	150	19.00	34.82	4.50	24.91	305.5	0.588
143	19.44	34.87	4.79	200	14.72	34.34	4.21	25.54	245.7	0.726
189	16.26	34.58	4.30	250	11.39	34.13	4.07	26.05	197.1	0.837
250	11.39	34.13	4.07	300	9.74	34.14	3.50	26.34	169.0	0.928
342	8.67	34.18	2.90	400	7.70	34.23	2.00	26.73	131.9	1.079
454	7.12	34.27	1.16	500	6.72	34.32	0.81	26.94	112.2	1.201
608	5.92	34.58	0.65	600	5.97	34.58	0.67	27.25	82.9	1.298
815	4.84	34.49	0.76	700	5.37	34.54	0.70	27.30	78.4	1.379
1061	3.94	34.54	1.05	800	4.89	34.51	0.78	27.32	75.9	1.456
1354	3.20	34.54	1.35	1000	4.14	34.54	0.98	27.43	66.1	1.598
				1200	3.58	34.54	1.17	27.49	60.2	1.725

NORPAC
Station
156

NORPAC Station 157; SPENCER F. BAIRD; September 3, 1955; 0546, 0740 GCT; 20°03'N, 150°01.5'W; sounding, 2850 fm; wind 075°, force 3; weather, cloudy; sea, moderate; wire angle 25°, 26°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	24.35	34.74	4.82	0	24.35	34.74	4.82	23.36	453.2	0.000		
9	24.32	34.74	4.86	10	24.35	34.74	4.86	23.37	452.2	0.045		
23	24.32	34.74	4.83	20	24.34	34.74	4.84	23.37	452.2	0.091		
51	24.26	34.70	4.85	30	24.33	34.73	4.84	23.37	452.2	0.136		
60	24.26	34.72	4.85	50	24.25	34.70	4.85	23.36	453.5	0.226		
69	24.28	34.73	4.84	75	24.28	34.72	4.85	23.37	451.8	0.339		
83	24.26	34.72	4.88	100	23.80	34.68	4.92	23.48	441.5	0.451		
100	23.80	34.68	4.92	150	16.40	34.53	4.00	25.16	281.8	0.625		
123	19.42	34.44	4.69	200	12.59	34.14	3.30	25.83	217.8	0.749	0.755	
148	16.66	34.34	4.03	250	10.20	34.21	2.99	26.32	170.8	0.846		
194	12.97	34.13	3.35	300	8.57	34.13	2.80	26.53	151.2	0.927		
257	9.96	34.21	2.95	400	6.60	34.16	1.37	26.83	122.7	1.064		
344	7.26	34.08	2.57	500	5.90	34.30	0.75	27.03	103.6	1.177		
464	6.30u	34.33u	0.77	600	5.20	34.37	0.67	27.17	90.1	1.274		
656	4.95	34.42	0.76	700	4.80	34.47	0.81	27.30	78.0	1.358		
				800	4.55	34.51	0.86	27.36	72.6	1.433		
0	24.30u	34.72u	4.83u	1000	3.99	34.55	1.03	27.46	63.4	1.569	1.626	
9	24.31u	34.74	4.89u	1200	3.39	34.59	1.43	27.54	55.4	1.688		
439	6.14u	34.17u	1.13u	1500	2.75	34.61	1.85	27.62	47.8	1.843		
591	5.25	34.36	0.65	2000	2.00	34.69	2.32	27.75	35.8	2.051		
736	4.71	34.49	0.82	2500	1.76	34.71	2.60	27.78	32.2			
951	4.08	34.55	0.99	3000	1.62	34.72	3.10	27.79	31.2			
1164	3.47	34.58	1.91u									
1463	2.79	34.51	1.86									
1804	2.28	34.63	2.18									
2146	1.96	34.69	2.38									
2572	1.75	34.71	2.65									
2998	1.62	34.72	3.10									
3440	1.52	34.71	3.16									
3916	1.48	34.71	3.36									

NORPAC
Station
157

NORPAC Station 157B; SPENCER F. BAIRD; September 2, 1955; 0641, 0458 GCT; 20°06.5'N, 153°06'W; sounding, 2000 fm; wind 070°, force 4; weather, partly cloudy; sea, moderate; wire angle 20°, 27°.

Z	OBSERVED			D	INTERPOLATED			O ₂	σ _t	COMPUTED		
	T	S	O ₂		T	S	O ₂			Δ'	Δ'	ΔD
0	24.16	34.92	4.92	0	24.16	34.92	4.92	23.55	434.5	0.000		
9	24.15	34.88	4.95 ^a	10	24.14	34.88	4.95	23.53	437.0	0.044		
24	24.12	34.90	4.97	20	24.13	34.89	4.96	23.54	435.4	0.087		
57	24.10	34.90	4.92	30	24.12	34.89	4.95	23.54	435.4	0.131		
60	24.10	34.88	4.98	50	24.10	34.90	4.92	23.55	434.7	0.218		
69	24.11	34.88	4.98	75	24.00	34.88	5.00	23.58	432.4	0.326		
84	22.70	34.94	5.26	100	22.15	35.07	5.00	24.25	368.0	0.426		
101	22.12	35.07	5.00	150	21.26	35.25	4.83	24.63	331.5	0.600	0.763	
123	21.65	35.20	4.99	200	19.22	35.02	4.63	25.00	296.7	0.757		
149	21.28	35.25	4.84	250	15.41	34.44	4.37	25.47	252.0	0.894		
196	19.58	35.08	4.65	300	12.40	34.23	4.02	25.93	207.9	1.009		
265	14.64	34.37	4.28	400	8.02	34.11	3.42	26.59	145.3	1.186		
362	9.16	34.13	3.72	500	6.22	34.18	1.35	26.90	116.3	1.316	1.345	
492	6.36	34.17	1.52	600	5.60	34.35	0.73	27.11	95.9	1.423		
673	5.40	34.44	0.63	700	5.33	34.46	0.61	27.23	84.7	1.513		
				800	4.63	34.50	0.76	27.35	74.0	1.592	1.796	
0	24.18u	34.90u	5.15u	1000	4.08	34.53	1.02	27.43	66.0	1.732		
9	24.18u	34.92u	5.07u	1200	3.41	34.57	1.30	27.53	56.8	1.855		
452	6.97	34.11	2.51	1500	2.77	34.60	1.70	27.61	48.9	2.014		
611	5.58	34.36	0.70	2000	2.28	34.61	1.87	27.66	44.1	2.247		
760	4.90	34.49	0.71									
937	4.27	34.52	0.94									
1114	3.64	34.56	1.18									
1360	3.06	34.59	1.45									
1610	2.58	34.61	1.76									
1986	2.26	34.61	2.13									
2266	1.88	34.66	2.49									

NORPAC
Station
157B

a. - Mean value taken between 4.93 and 4.97.

NORPAC Station 158; SPENCER F. BAIRD; September 15, 1955; 2113 GCT; 23°14.5'N, 111°01.5'W; sounding, 640 fm; wind 160°, force 1; weather, cloudy; sea, slight; wire angle 03°.

Z	OBSERVED			INTERPOLATED			COMPUTED		
	T	S	O ₂	D	S	O ₂	σ _t	Δ'	ΔD
0	27.88	34.64	4.76	0	34.64	4.76	22.18	565.7	0.000
10	26.16	34.60	5.08	10	34.60	5.08	22.70	515.9	0.054
15	24.09	34.61	5.13	20	34.55	5.03	23.73	417.5	0.101
20	22.59	34.55	5.03	30	34.60	4.24	24.29	364.7	0.140
30	20.73	34.60	4.24	50	34.04	4.05	24.80	315.3	0.208
40	19.20	34.51	4.14	75	34.09	2.57	25.48	251.2	0.278
50	16.99	34.04	4.05	100	34.33	1.55	25.81	219.9	0.337
65	15.41	34.30	2.38	150	34.63	0.50	26.30	172.8	0.432
81	13.50	34.02	2.60	200	34.56	0.59	26.47	157.1	0.515
101	13.42	34.34	1.55	250	34.70	0.14	26.57	147.2	0.591
115	12.52	34.54	0.73	300	34.68	0.10	26.67	138.0	0.662
153	12.06	34.63	0.49	400	34.54	0.13	26.86	120.3	0.791
199	10.94	34.56	0.60	500	34.51	0.14	27.01	105.3	0.904
263	10.82	34.71	0.11	600	34.51	0.18	27.15	92.6	1.003
351	9.36	34.59	0.14						
478	7.52	34.51	0.14						
656	5.73	34.51	0.23						

NORPAC
Station
158

NORPAC Station 159; SPENCER F. BAIRD; September 15, 1955; 1405 GCT; 22°44.5'N, 111°57'W; sounding, 1800 fm; wind 150°, force 1; weather, rain; sea, slight; wire angle, 06°.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	ΔD
0	27.56	34.10	4.60	0	27.56	34.10	4.60	21.88	594.2	0.000
10	27.56	34.20	4.63	10	27.56	34.20	4.63	21.96	587.0	0.059
25	20.52	33.91	6.12	20	24.00	34.03	5.45	22.93	493.9	0.113
55	13.76	34.05	2.79	30	19.20	33.92	5.67	24.17	375.9	0.157
70	13.30	34.30	1.50	50	14.74	34.01	3.33	25.29	269.2	0.221
85	13.26	-	0.92	75	13.30	34.37	1.40	25.87	213.9	0.282
108	12.04	34.51	0.75	100	12.58	34.56	0.62	26.15	187.1	0.332
137	11.48	34.54	0.98	150	11.45	34.64	0.55	26.43	161.2	0.418
161	11.47	34.69	0.36	200	11.07	34.71	0.16	26.56	148.1	0.495
212	10.90	34.71	0.16	250	10.35	34.68	0.27	26.66	138.6	0.567
279	9.93	34.66	0.34	300	9.65	34.65	0.30	26.76	129.5	0.634
380	8.46	34.60	0.14	400	8.19	34.59	0.14	26.94	112.0	0.755
503	7.06	34.54	0.11	500	7.08	34.54	0.13	27.07	100.2	0.861
669	5.76	34.52	0.17	600	6.28	34.52	0.15	27.16	91.5	0.956
774p	5.00	34.53	0.23	700	5.52	34.52	0.17	27.26	82.1	1.043
894	4.54	34.52	0.56	800	4.90	34.52	0.31	27.33	75.0	1.122
1150	3.76	34.61	0.60	1000	4.24	34.54	0.60	27.42	67.2	1.264
										1.306

NORPAC
Station
159

NORPAC Station 160; SPENCER F. BAIRD; September 15, 1955; 0254, 0427 GCT; 22°03.5'N, 113°12'W; sounding, 2000 fm; wind -, force 0; weather, clear; sea, slight; wire angle, 02° 00'.

Z	OBSERVED			INTERPOLATED			COMPUTED			
	T	S	σ _t	D	T	S	σ _t	Δ'	ΔD'	ΔD
0	26.99	33.80	4.85	0	26.99	33.80	4.85	598.1	0.000	
10	26.20	33.78	4.77	10	26.20	33.78	4.77	576.0	0.059	
26	21.22	33.75	4.79	20	22.58	33.76	4.69	475.2	0.111	
56	17.32	33.66	5.94	30	20.44	33.75	4.95	419.5	0.156	
66	15.32	33.47	6.01	50	17.86	33.69	5.79	361.0	0.234	
76	14.25	33.40	5.91	75	14.25	33.40	5.93	304.4	0.317	
90	13.10	33.62	4.29	100	12.14	33.67	3.21	244.2	0.386	
109	11.64	33.77	3.01	150	11.59	34.28	1.65	189.6	0.492	
134	11.50	34.18	1.90	200	12.00	34.77	0.22	160.5	0.579	0.584
163	12.18	34.68	0.44	250	11.10	34.73	0.13	147.8	0.656	
219	11.61	34.74	0.19	300	10.40	34.69	0.10	138.5	0.278	
291	10.54	34.70	0.13	400	8.99	34.61	0.14	122.2	0.858	
394	9.04	34.61	0.15	500	7.82	34.57	0.16	108.3	0.973	0.991
533	7.20	34.53	0.15	600	6.63	34.52	0.16	96.2	1.076	
723	5.76	34.52	0.19	700	5.93	34.52	0.19	87.2	1.168	
				800	5.35	34.52	0.21	80.2	1.251	
				1000	4.39	34.57	0.44	66.1	1.398	1.446
0	26.95u	33.80	4.77u	1200	3.77	34.58	0.65	59.2	1.523	
10	26.11u	33.78	4.78u	1500	3.00	34.62	1.16	48.8	1.685	
499	7.84	34.57	0.16	2000	2.15	34.70	2.09	36.2	1.898	
668	6.14	34.52	0.18							
829	5.18	34.52	0.25							
1019	4.33	34.57	0.47							
1209	3.74	34.58	0.65							
1470	3.02	34.62	1.13							
1734	2.52	34.65	1.59							
2022	2.10	34.70	2.06							
2414	1.85	34.70	2.52							

NORPAC
Station
160

NORPAC Station 161; SPENCER F. BAIRD; September 14, 1955; 1706 GCT; 21°24'N, 114°26'W; sounding, 2100 fm; wind 350°, force 1; weather, cloudy; sea, slight; wire angle, 09°.

NORPAC
Station
161

OBSERVED		INTERPOLATED					COMPUTED				
Z	T	S	O ₂	D	T	S	O ₂	σ_t	Δ'	Δ'	$\Delta\Delta$
0	26.60	34.18	4.72	0	26.60	34.18	4.72	22.25	559.2	0.000	
10	25.80	34.18	4.85	10	25.80	34.18	4.85	22.50	535.2	0.055	
25	19.01	33.61	5.87	20	20.20	33.65	5.75	23.70	420.2	0.102	
55	14.67	33.68	5.14	30	17.95	33.62	5.81	24.26	367.4	0.142	
69	13.51	33.91	3.32	50	15.19	33.67	5.24	24.92	303.9	0.209	
84	13.08	34.16	1.93	75	13.57	34.06	2.60	25.57	242.0	0.277	
109	12.58	34.43	1.03	100	12.75	34.29	1.31	25.91	209.9	0.334	
133	11.94	34.59	0.47	150	11.65	34.62	0.40	26.38	165.2	0.425	
160	11.56	34.66	0.36	200	11.32	34.71	0.21	26.51	152.8	0.505	0.509
212	11.23	34.72	0.16	250	10.61	34.68	0.19	26.61	143.3	0.579	
276	10.22	34.66	0.23	300	9.88	34.65	0.30	26.72	133.7	0.648	
375	8.96	34.60	0.44	400	8.63	34.58	0.40	26.87	119.5	0.774	
497	7.50	34.52	0.15	500	7.46	34.52	0.15	27.00	106.9	0.888	0.904
660	6.08	34.51	0.19	600	6.52	34.51	0.17	27.12	95.2	0.989	
879	4.78	34.52	0.38	700	5.79	34.51	0.23	27.22	86.1	1.079	
1128	3.91	34.56	0.55	800	5.19	34.51	0.31	27.29	79.1	1.162	
1433	3.12	34.61	1.04	1000	4.30	34.54	0.44	27.41	67.5	1.308	1.352
				1200	3.75	34.57	0.63	27.50	59.4	1.435	

NORPAC Station 162; SPENCER F. BAIRD; September 14, 1955; 0004, 0145 GCT; 20°22'N, 116°19.5'W; sounding, 2000 fm; wind 355°, force 1; weather, intermittent drizzle; sea, slight; wire angle, 16°, 15°.

Z	OBSERVED				INTERPOLATED				COMPUTED			
	T	S	O ₂	D	T	S	O ₂	σ _t	Δ'	Δ'	Δ'	ΔD
0	25.3	34.40	4.84	0	25.3	34.40	4.84	22.82	505.0	0.000		
9	24.88	34.43	4.83	10	24.87	34.43	4.83	22.97	490.1	0.050		
25	24.45	34.45	4.85	20	24.60	34.45	4.82	23.07	481.0	0.098		
55	19.94	34.09	5.49	30	24.03	34.45	4.89	23.24	464.9	0.146		
64	18.60	33.94	5.61	50	21.20	34.23	5.32	23.87	403.9	0.232		
74	17.75	33.86	5.58	75	17.70	33.85	5.58	24.49	344.9	0.326		
88	14.99	33.60	5.27	100	13.25	33.57	4.80	25.26	272.2	0.403		
106	12.62	33.57	4.37	150	12.92	34.59	0.60	26.11	191.2	0.520		
131	13.00	34.14	2.16	200	11.67	34.67	0.42	26.42	162.1	0.508	0.613	
157	12.83	34.70	0.52	250	10.80	34.68	0.32	26.58	146.5	0.685		
207	11.54	34.67	0.44	300	10.00	34.67	0.21	26.71	133.8	0.755		
278	10.35	34.69	0.25	400	8.47	34.56	0.21	26.88	118.1	0.881		
377	8.80	34.58	0.21	500	7.20	34.53	0.22	27.04	102.8	0.992	1.011	
511	7.08	34.53	0.19	600	6.50	34.55	0.17	27.15	92.1	1.089		
695	5.90	34.53	0.19	700	5.85	34.53	0.18	27.22	85.4	1.178		
				800	5.18	34.53	0.22	27.30	77.9	1.260		
0	25.28u	34.45u	4.76u	1000	4.30	34.58	0.43	27.44	64.6	1.402	1.451	
10	24.91u	34.43u	4.78u	1200	3.65	34.58	0.68	27.51	58.2	1.525		
473	7.56	34.52	0.26	1500	2.90	34.63	1.27	27.63	47.2	1.683		
639	6.30	34.55	0.16	2000	2.20	34.69	2.00	27.74	37.0	1.895		
798	5.20	34.53	0.23	2500	1.77	34.70	2.61					
1028	4.21	34.58	0.45									
1262	3.52	34.58	0.78									
1590	2.74	34.64	1.40									
1618p	2.62u	34.63u	1.51u									
1970	2.18	34.69	1.98									
2354	1.91	34.69	2.39									
2840	1.69	34.70	2.73									

NORPAC
Station
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