

**OCEANOGRAPHIC OBSERVATIONS IN  
BRISTOL BAY AND THE BERING SEA  
1939-41, USCGT Redwing**



**SPECIAL SCIENTIFIC REPORT-FISHERIES No. 381**

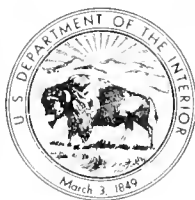
Contribution No. 21 to research conducted with the approval of the United States Section of the International North Pacific Fisheries Commission. The Commission, established in 1953 by the International Convention for the High Seas Fisheries of the North Pacific Ocean, coordinates the research of the member nations: Japan, Canada, and the United States. The resulting investigations provide data to the Commission for use in carrying out its duties in connection with fishery conservation problems in the North Pacific Ocean. Publication of this scientific report has been approved by the United States Section of the Commission.

United States Department of the Interior, Stewart L. Udall, Secretary  
Fish and Wildlife Service, Clarence F. Pautzke, Commissioner  
Bureau of Commercial Fisheries, Donald L. McKernan, Director

# OCEANOGRAPHIC OBSERVATIONS IN BRISTOL BAY AND THE BERING SEA 1939-41 (USCGT Redwing)

by

Felix Favorite, John W. Schantz  
and Charles R. Hebard



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## ABSTRACT

Oceanographic data in Bristol Bay and the Bering Sea obtained aboard the U. S. Coast Guard Tug *Redwing* during the summer months of 1939, 1940 and 1941 in conjunction with the exploratory fishing conducted in the area are presented. Temperature, salinity, dissolved oxygen, phosphates, nitrites and silicates are tabulated for 331 stations in 1939, 184 in 1940 and 40 in 1941. Interpolated values of temperature and salinity and computed values of density, specific volume anomaly, and dynamic height at standard depths are presented.

## INTRODUCTION

This report supplements current investigations of the distribution and migration of salmon in the North Pacific Ocean and the Bering Sea and follows the report by Favorite and Pedersen (1959) in which the basic operational plans and the results of the 1938 preliminary oceanographic investigations in Bristol Bay, Alaska, were presented.

The oceanographic data presented in this report were obtained during the summer months of 1939 to 1941 aboard the U. S. Coast Guard Tug *Redwing* in conjunction with the exploratory purse-seine and gill-net salmon fishing conducted in the area. The results of the fishing effort have been reported by Barnaby (1952).

Note.--Felix Favorite, Oceanographer, and John W. Schantz and Charles R. Hebard, Fishery Aids, Bureau of Commercial Fisheries, U. S. Fish and Wildlife Service, Seattle, Washington.

## VESSEL AND PERSONNEL

As in 1938, the U. S. Coast Guard Tug *Redwing* served as the research vessel with Lt. J. A. Fletcher, USCG, as her commanding officer during 1939 and 1940, and Lt. B. H. Brallier, USCG, during 1941. The oceanographic personnel, under the supervision of Dr. T. G. Thompson of the University of Washington, and their tours of duty as determined by the *Redwing* logs were as follows:

1939	Albert V. Collier	15 May to 8 June
	Walter Sands	15 May to 10 September
	Russel Scott	15 May to 10 September
	Alfred Westfall	15 May to 10 September
1940	Harry Worth	15 May to 10 September
	Harris Magnusson	27 June to 6 September
	Harold Plank	27 June to 6 September
	Walter Sands	27 June to 6 September
1941	Harry Worth	27 June to 6 September
	William P. Holland	6 May to 21 June
	Donald E. Knoke	6 May to 21 June
	Niell C. Ostranger	6 May to 21 June
	Walter Sands	6 May to 21 June
	Keith Sweeny	6 May to 21 June

## OBSERVATIONS

### Stations

The 1939 stations, which followed closely those sections of 1938 perpendicular to the Aleutian Chain and extending to Cape Newenham, were confined to the inner area of Bristol Bay. In 1940 those sections originating north of the Chain and reaching to and along Cape Newenham were repeated. An additional perimeter of stations was observed from Cape Newenham along Nunivak Island, the Pribilof Islands, and the Unimak Island and Pass. A third series of stations was observed beginning north of Akutan Pass and proceeding through Unimak Pass, along the Chain, around the Shumagin Islands, and ending at Sanak Island. In 1941, only four sections were made--one each from Unalaska Island and Unimak Island to the Pribilof Islands, and two east-west sections across Bristol Bay.

The number of stations observed was greatly increased in 1939--331 compared to 128 in 1938, 184 were observed in 1940, and 40 in 1941. The 1941 investigations were terminated abruptly because of a change in the operating schedule of the *Redwing*.

### Hydrographic casts

The hydrographic casts in 1939 and 1941 conformed to the depth interval used in 1938, but in 1940 standard sampling depths were often changed to other intervals.

In 1938 water samples were drawn for the analysis of only chlorinity and dissolved oxygen, but during the three following years the water was analyzed for phosphates, nitrites, and silicates as well. However, no bottom samples were collected or currents measured.

## NOTES ON TABULATED DATA

### Station heading

Station

Position

Messenger time and date, CGT

### Weather condition

B blue sky, cloudless  
C cloudy  
D drizzle  
E fog  
M mist  
O overcast  
P passing showers of rain  
R rain  
S snow, snowy weather, or snow falling  
V variable  
Z hazy

Barometer, in inches

### Wind

Direction  
Force in Beaufort scale

### Sea

Direction  
Height  
0. No swell )  
1. Moderate swell (Calm or  
2. Heavy swell )light sea  
3. No swell )Moderate  
4. Moderate swell (sea  
5. Heavy swell  
6. Rather rough sea  
7. Rough sea  
8. Very rough sea  
9. Mountainous sea

Temperature, in °F.

Depth, in meters

### Observed data

DEPTH Depth in meters  
TEMP Temperature from reversing thermometer, in °C.  
SAL Salinity, as obtained from chlorinity by Knudsen's tables (1901), Mohr method.  
OXY Dissolved oxygen concentration expressed as milligram-atoms of oxygen per kilogram of sea water. Winkler (American Public Health Association, 1923) method.



PHOS Soluble phosphate concentration expressed in microgram-atoms of phosphorus per kilogram of sea water. Deniges (1920) method as modified by Truog and Meyer (1929).

NIT Nitrite nitrogen concentration expressed as microgram-atoms of nitrogen per kilogram of sea water. Griess (1879) method as modified by Ilosvay (1889).

SIL Soluble silicate concentration expressed as microgram-atoms of silicon per kilogram of sea water. Thompson and Houlton (1934) method.

T Indicates a trace amount of the indicated constituent.

#### Computed data

SIG-T Density, defined by (specific gravity - 1) x 1000, expressed as grams per liter

$10^5 \delta$  Specific volume anomaly at the indicated pressure

$\Delta D$  Anomaly of dynamic height, in dynamic meters, of the sea surface relative to the indicated depth in meters

Calculations were done on an IBM 650, Magnetic Drum Data-Processing Machine at the computer center of the University of Washington, by using formulas presented in *Oceanographic Data Processing by Automatic Methods*, U. S. Hydrographic Office, January 31, 1955.

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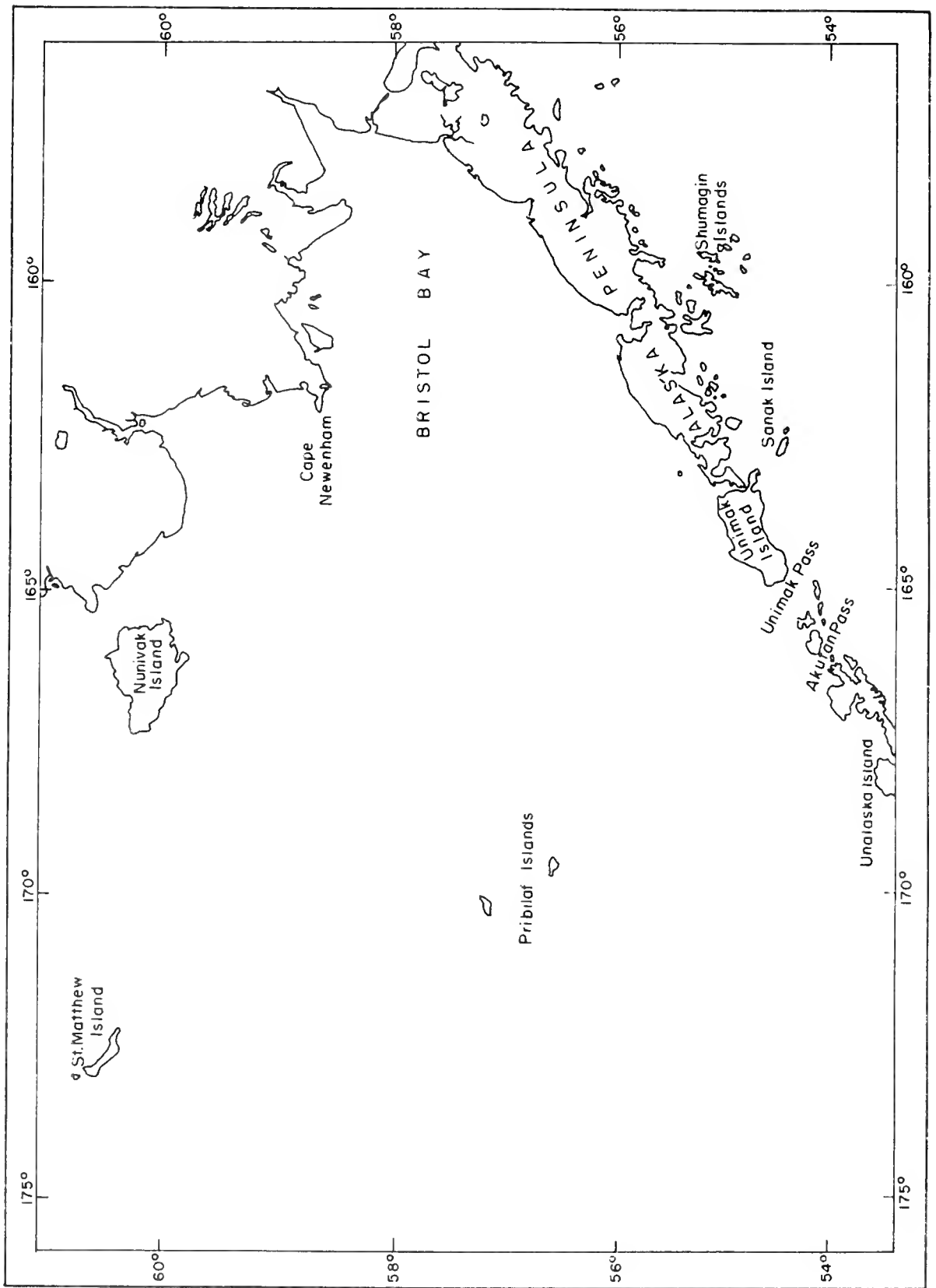


Figure 1.--Chart of Bristol Bay and the Eastern Bering Sea

## STATION DATA, 1939

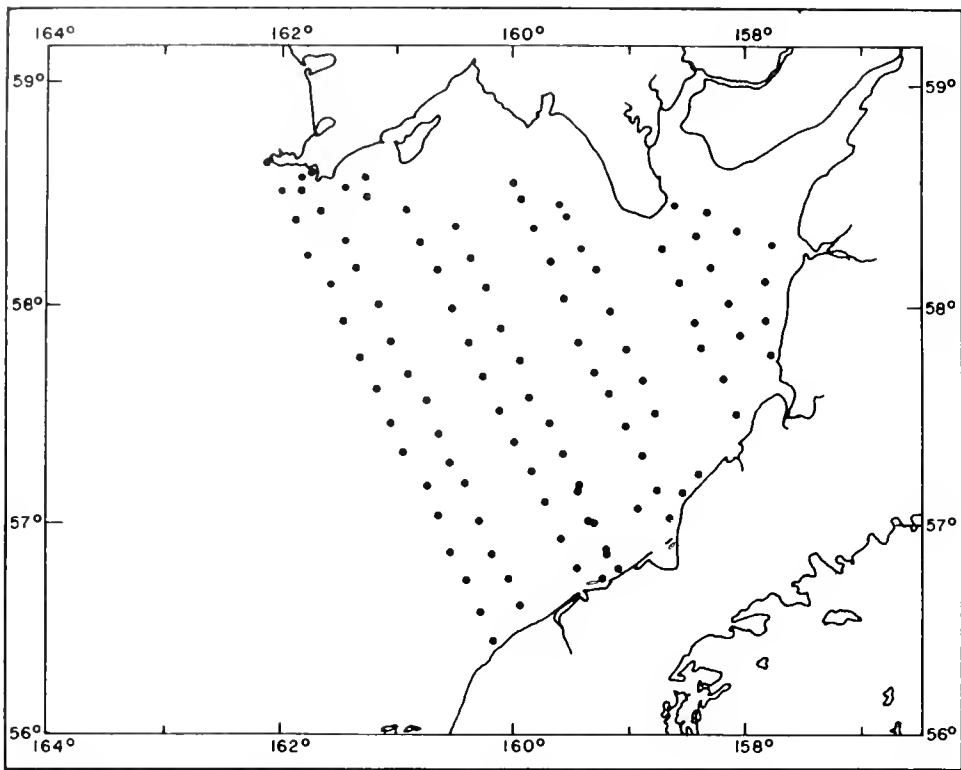


Figure 2.--Oceanographic stations 1-105, Bristol Bay, Alaska, May-June 1939

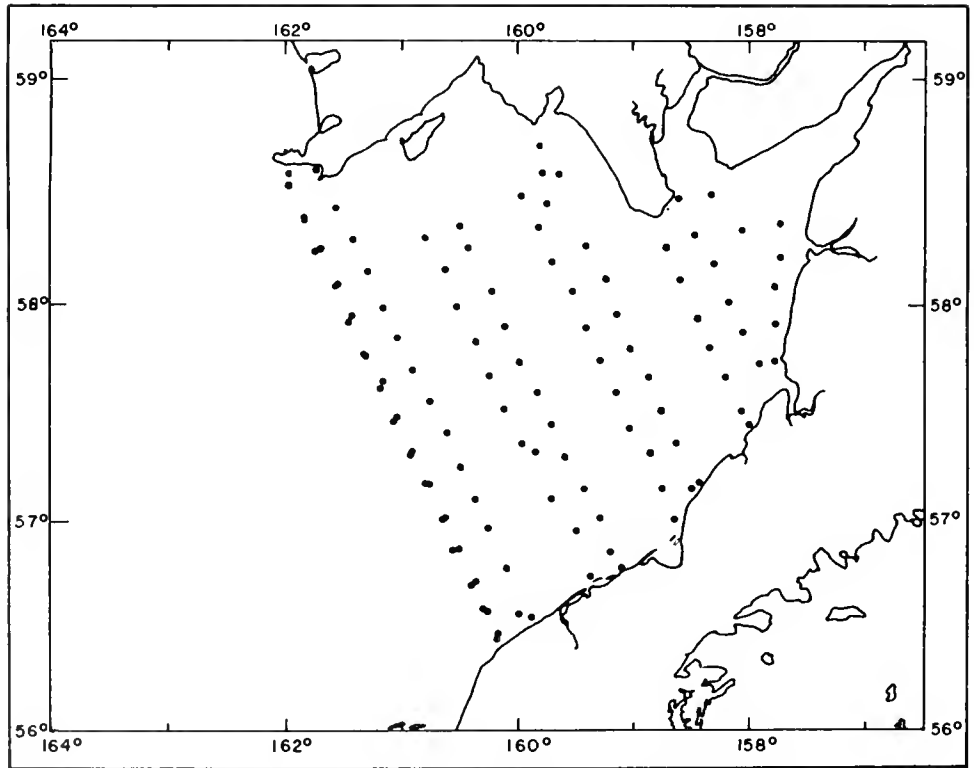


Figure 3.--Oceanographic stations 106-223, Bristol Bay, Alaska, July 1939

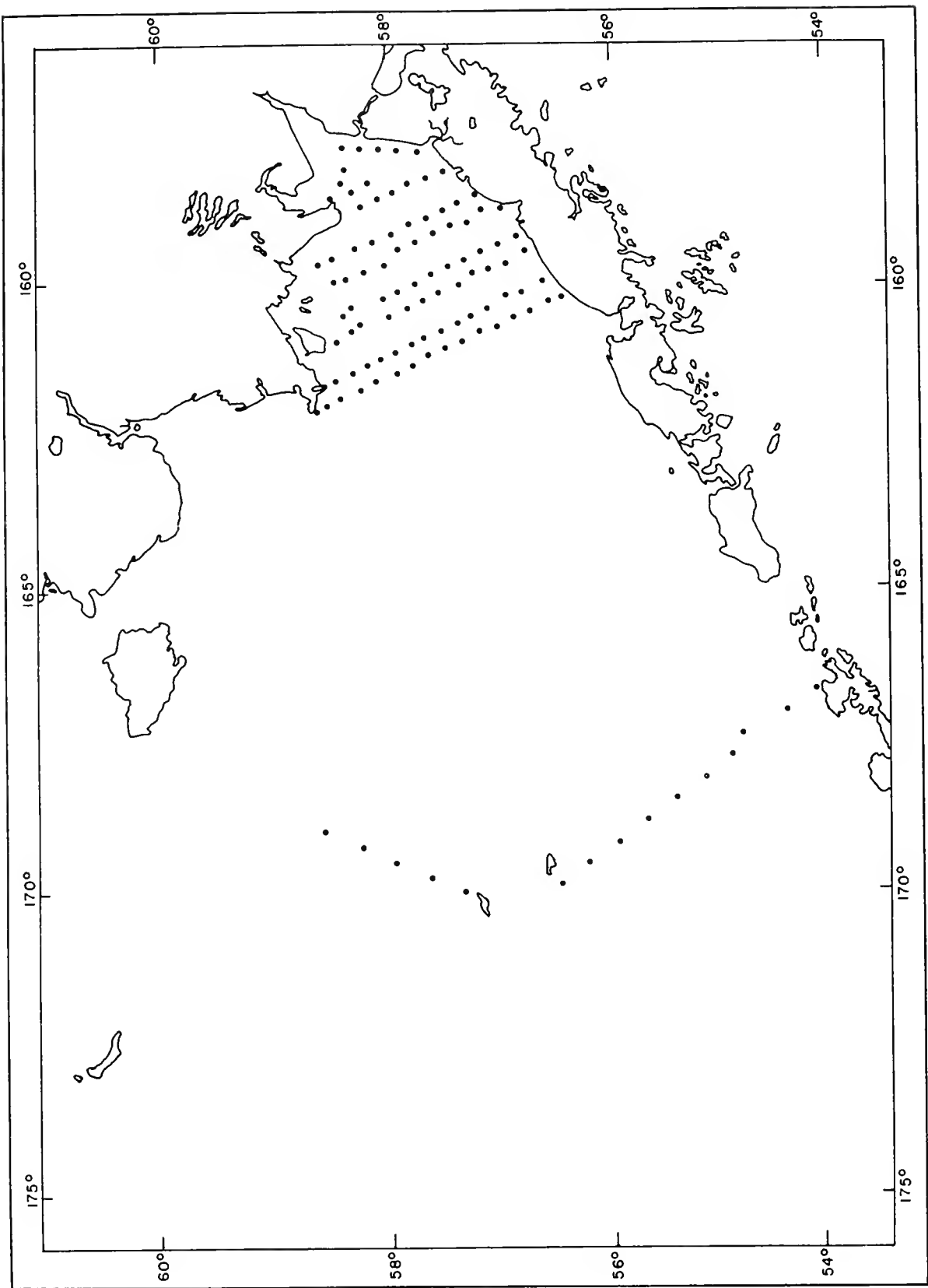


Figure 4.--Oceanographic stations 224-331, Eastern Bering Sea, Alaska, August 1939

## STATION 1

58-35 N 161-49 W 30 MAY 1939 1556 GCT  
 WEATHER 0 BAR 29.96 WIND W 2 SEA W 1  
 TEMPERATURE DRY 33 WET 32 DEPTH 13

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.77	30.88	24.64	.663	0.6	.0	0
5	2.77	30.88	24.64	.660	0.6	.0	0
10	2.78	30.88	24.64	.656	0.8	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	2.77	30.88	24.64	330.5	.000
10	2.78	30.88	24.64	330.6	.033

## STATION 2

58-38 N 162-08 W 30 MAY 1939 1823 GCT  
 WEATHER O P S BAR 29.99 WIND W 2 SEA W 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.60	30.79	24.59	.673	0.7	.0	0
5	2.51	30.79	24.59	.662	0.7	.0	0
10	2.46	30.81	24.61	.668	0.7	.0	0
15	2.35	30.86	24.66	.666	0.7	.0	0
20	2.08	30.97	24.77	.664	0.7	.0	0
30	1.98	31.08	24.86	.666	0.9	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	2.60	30.79	24.59	336.1	.000
10	2.46	30.81	24.61	333.6	.033
20	2.08	30.97	24.77	318.9	.066
30	1.98	31.08	24.86	309.8	.097

## STATION 3

58-31 N 162-00 W 30 MAY 1939 2025 GCT  
 WEATHER O P S BAR 29.99 WIND W 2 SEA W 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 37

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.48	31.29	25.06	.686	0.5	.0	0
5	1.47	31.29	25.06	.688	0.5	.0	0
10	1.33	31.31	25.09		0.5	.0	0
15	1.33	31.31	25.09	.693	0.6	.0	0
20	1.29	31.31	25.09	.688	0.5	.0	0
30	1.29	31.31	25.09	.693	0.5	.0	0
35	1.24	31.31	25.09	.688	0.6	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.48	31.29	25.06	290.8	.000
10	1.33	31.31	25.09	288.3	.029
20	1.29	31.31	25.09	288.1	.059
30	1.29	31.31	25.09	288.1	.087

## STATION 4

58-23 N 161-52 W 30 MAY 1939 2252 GCT  
 WEATHER O PAR 30.01 WIND W 2 SEA W 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.33	31.35	25.12	.706	0.60	.0	0
5	1.31	31.35	25.12	.705	0.55	.0	0
10	1.18	31.35	25.13	.704	0.60	.0	0
15	1.16	31.36	25.14	.694	0.50	.0	0
20	1.14	31.35	25.13	.694	0.60	.0	0
30	1.09	31.35	25.13	.701	0.55	.0	0
40	1.07	31.36	25.14	.694	0.50	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.33	31.35	25.12	285.3	.000
10	1.18	31.35	25.13	284.4	.028
20	1.14	31.35	25.13	284.2	.056
30	1.09	31.35	25.13	283.9	.084

## STATION 5

58-13 N 161-46 W 31 MAY 1939 0103 GCT  
 WEATHER O O Z BAR 30.05 WIND W 2 SEA W 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.23	31.42	25.18	.693	0.50	.0	0
5	1.18	31.42	25.18	.567	0.50	.0	0
10	1.14	31.40	25.17	.582	0.50	.0	0
15	1.14	31.40	25.17	.614	0.50	.0	0
20	1.14	31.42	25.19	.602	0.50	.0	0
30	1.15	31.40	25.17				0
40	1.14	31.42	25.19	.674	0.50	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.23	31.42	25.18	279.4	.000
10	1.14	31.40	25.17	280.4	.028
20	1.14	31.42	25.19	278.9	.056
30	1.15	31.40	25.17	280.4	.084

## STATION 6

58-05 N 161-35 W 31 MAY 1939 0320 GCT  
 WEATHER C BAR 30.02 WIND W 2 SEA W 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.29	31.46	25.21	.709	0.6	.0	0
5	1.13	31.47	25.22	.711	0.6	.0	0
10	1.10	31.47	25.22	.711	0.5	.0	0
15	1.11	31.47	25.22	.709	0.5	.0	0
20	1.08	31.47	25.22	.710	0.9	.0	0
30	1.07	31.47	25.22	.702		.0	0
35	1.10	31.47	25.22	.704	0.5	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.29	31.46	25.21	276.7	.000
10	1.10	31.47	25.22	274.9	.028
20	1.08	31.47	25.22	274.7	.055
30	1.07	31.47	25.22	274.6	.082



## STATION 7

57-55 N 161-29 W 31 MAY 1939 0547 GCT  
 WEATHER 0 PAR 30.04 WIND 0 0 SEA WNW 1  
 TEMPERATURE DRY 33 WET 32 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	0.53	31.56	25.33	.536	0.6	.0	0
5	0.54	31.58	25.35	.624	0.7	.0	0
10	0.51	31.56	25.33	.605	0.7	.T	0
15	0.53	31.56	25.33	.588	0.5	.0	0
20	0.52	31.58	25.35	.466	0.6	.0	0
30	0.54	31.58	25.35	.583	0.6	.0	0
40	0.53	31.58	25.35	.557	0.6	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	0.53	31.56	25.33	265.1	.000
10	0.51	31.56	25.33	265.0	.027
20	0.52	31.58	25.35	263.5	.053
30	0.54	31.58	25.35	263.5	.079

## STATION 8

57-46 N 161-20 W 31 MAY 1939 0803 GCT  
 WEATHER 0 2 PAR 30.06 WIND 0 0 SEA WNW 1  
 TEMPERATURE DRY 32 WET 32 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	0.72	31.55	25.31	.711	0.4	.0	
5	0.75	31.56	25.32	.717	0.3	.0	
10	0.73	31.55	25.31	.716	0.3	.0	
15	0.74	31.58	25.34	.751	0.3	.0	
20	0.73	31.58	25.34	.716	0.4	.0	
30	0.75	31.58	25.34	.718	0.4	.T	
40	0.74	31.58	25.34	.717	0.4	.0	
45	0.74	31.58	25.34	.708	0.5	.0	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	0.72	31.55	25.31	266.8	.000
10	0.73	31.55	25.31	266.8	.027
20	0.73	31.58	25.34	264.5	.054
30	0.75	31.58	25.34	264.6	.080

## STATION 9

57-37 N 161-11 W 31 MAY 1939 1023 GCT  
 WEATHER 0 Z BAR 30.07 WIND 0 0 SEA WNW 1  
 TEMPERATURE DRY 32 WET 31 DEPTH 54

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	0.76	31.67	25.41	.688	0.3	.0	0
5	0.69	31.67	25.41	.609	0.3	.0	0
10	0.64	31.67	25.41	.650	0.2	.0	0
15	0.68	31.69	25.42	.615	0.2	.0	0
20	0.67	31.69	25.42	.627	0.1	.0	0
30	0.69	31.69	25.42	.632	0.2	.0	0
40	0.68	31.69	25.42	.574	0.1	.0	0
50	0.67	31.69	25.42	.382	0.5	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	0.76	31.67	25.41	257.8	.000
10	0.64	31.67	25.41	257.2	.026
20	0.67	31.69	25.42	255.8	.052
30	0.69	31.69	25.42	255.9	.078
50	0.67	31.69	25.42	255.7	.129

## STATION 10

57-28 N 161-03 W 31 MAY 1939 1317 GCT  
 WEATHER 0 0 S BAR 30.05 WIND 0 0 SEA W 1  
 TEMPERATURE DRY 32 WET 31 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.17	31.83	25.51	.793	0.1	.0	0
5	1.16	31.83	25.51	.790	0.4	.0	0
10	1.11	31.83	25.52	.792	0.4	.0	0
15	1.12	31.83	25.52	.789	0.1	.0	0
20	1.11	31.83	25.52	.791	0.4	.0	0
30	1.10	31.83	25.52	.786	0.1	.0	0
40	1.11	31.85	25.52	.783	0.2	.0	0
50	1.09	31.85	25.52	.781	0.0	.T	0
60	1.13	31.85	25.52	.787	0.4	.T	0
65	1.13	31.85	25.52	.784	0.2	.T	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.17	31.83	25.51	247.8	.000
10	1.11	31.83	25.52	247.5	.025
20	1.11	31.83	25.52	247.5	.050
30	1.10	31.83	25.52	247.4	.075
50	1.09	31.85	25.53	245.8	.124

## STATION 11

57-19 N 160-56 W 31 MAY 1939 1558 GCT  
 WEATHER C BAR 30.06 WIND 0 0 SEA NW 1  
 TEMPERATURE DRY 34 WET 32 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.31	31.89	25.55	.773	0.4	.T	0
5	1.34	31.89	25.55	.768	0.4	.T	0
10	1.29	31.91	25.57	.763	0.2	.T	0
15	1.30	31.92	25.58	.765	0.3	.T	0
20	1.31	31.92	25.58	.762	0.5	.T	0
30	1.30	31.92	25.58	.758	0.2	.T	0
40	1.30	31.92	25.58	.758	0.2	.T	0
50	1.29	31.92	25.58	.763	0.1	.T	0
60	1.32	31.92	25.58	.759	0.2	.1	0
65	1.33	31.42	25.18	.757	0.1	.1	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.31	31.89	25.55	244.1	.000
10	1.29	31.91	25.57	242.4	.024
20	1.31	31.92	25.58	241.8	.048
30	1.30	31.92	25.58	241.7	.072
50	1.29	31.92	25.58	241.6	.120

## STATION 12

57-10 N 160-45 W 31 MAY 1939 1835 GCT  
 WEATHER C BAR 30.07 WIND NE 1 SEA 0 0  
 TEMPERATURE DRY 42 WET 40 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.64	31.94	25.57	.753	0.5	.10	0
5	1.56	31.94	25.58	.754	0.2	.10	0
10	1.49	31.96	25.60	.754	0.2	.10	0
15	1.53	31.92	25.56	.750	0.2	.10	0
20	1.52	31.94	25.58	.743	0.5	.10	0
30	1.51	31.94	25.58	.740	0.6	.10	0
40	1.50	31.94	25.58	.745	0.7	.10	0
50	1.47	31.94	25.58	.746	0.0	.10	0
60	1.48	31.94	25.58	.738	0.5	.10	0
65	1.50	31.96	25.60	.740	0.5	.10	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.64	31.94	25.57	242.3	.000
10	1.49	31.96	25.60	239.8	.024
20	1.52	31.94	25.58	241.5	.048
30	1.51	31.94	25.58	241.5	.072
50	1.47	31.94	25.58	241.2	.120

## STATION 13

57-02 N 160-40 W 31 MAY 1939 2054 GCT  
 WEATHER C BAR 30.09 WIND NNE 1 SEA 0 0  
 TEMPERATURE DRY 35 WET 34 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.07	31.96	25.56	.740	0.6	.14	18
5	1.91	31.94	25.55	.746	0.7	.11	14
10	1.77	31.94	25.56	.748	0.1	.07	13
15	1.75	31.94	25.56	.739	0.6	.08	18
20	1.74	31.96	25.58	.677	0.5	.09	22
30	1.74	31.96	25.58	.739	0.4		20
40	1.72	31.94	25.57	.732	0.1		26
50	1.74	31.94	25.57	.730	0.3		24
60	1.73	31.94	25.57	.729	0.1		18
65	1.74	31.94	25.57	.728	0.5		20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.07	31.96	25.56	243.6	.000
10	1.77	31.94	25.56	243.1	.024
20	1.74	31.96	25.58	241.4	.048
30	1.74	31.96	25.58	241.4	.072
50	1.74	31.94	25.57	242.9	.120

## STATION 14

56-52 N 160-32 W 31 MAY 1939 2322 GCT  
 WEATHER C BAR 30.11 WIND NE 2 SEA 0 0  
 TEMPERATURE DRY 36 WET 35 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.17	31.87	25.48	.733	0.75	.00	14
5	2.09	31.87	25.48	.737	0.70	.00	18
10	1.86	31.87	25.50	.738	0.05	.00	22
15	1.87	31.87	25.50	.737	0.03	.00	26
20	1.94	31.87	25.50	.733	1.20	.00	20
30	1.82	31.87	25.50	.723	0.75	.00	18
40	1.81	31.87	25.50	.726	0.60	.09	18
50	1.82	31.87	25.50	.719	0.80	.09	22
60	1.82	31.87	25.50	.578	0.75	.09	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.17	31.87	25.48	251.1	.000
10	1.86	31.87	25.50	249.0	.025
20	1.94	31.87	25.50	249.6	.050
30	1.82	31.87	25.50	248.8	.075
50	1.82	31.87	25.50	248.8	.125

## STATION 15

56-43 N 160-24 W 01 JUN 1939 0228 GCT  
 WEATHER C BAR 30.08 WIND NE 2 SEA NE 1  
 TEMPERATURE DRY 36 WET 35 DEPTH 62

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.41	31.74	25.36	.678	0.82	.07	12
5	2.37	31.76	25.38		0.80	.06	10
10	2.29	31.76	25.38	.662	0.70	.08	12
15	2.20	31.76	25.39	.673	0.75	.06	12
20	2.17	31.76	25.39	.676	1.30	.05	0
30	2.15	31.76	25.39	.708	0.70	.03	0
40	2.12	31.78	25.41	.579	0.80	.04	10
50	2.09	31.78	25.41	.565	0.75	.06	12
60	2.10	31.78	25.41	.557	0.75	.08	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	2.41	31.74	25.36	262.7	.000
10	2.29	31.76	25.38	260.3	.026
20	2.17	31.76	25.39	259.5	.052
30	2.15	31.76	25.39	259.4	.078
50	2.09	31.78	25.41	257.4	.130

## STATION 16

56-34 N 160-17 W 01 JUN 1939 0443 GCT  
 WEATHER C BAR 30.08 WIND NW 3 SEA NE 2  
 TEMPERATURE DRY 36 WET 34 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.86	31.49	25.12		0.45	.02	26
5	2.90	31.49	25.12	.713	0.40	.01	24
10	2.83	31.49	25.13	.716	0.55	.02	22
15	2.80	31.49	25.13	.715	0.50	.03	12
20	2.69	31.51	25.15	.707	0.55	.04	12
30	2.68	31.51	25.15	.695	0.25	.05	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	2.86	31.49	25.12	285.0	.000
10	2.83	31.49	25.13	284.8	.028
20	2.69	31.51	25.15	282.2	.056
30	2.68	31.51	25.15	282.2	.084

## STATION 17

56-27 N 160-10 W 01 JUN 1939 0641 GCT  
 WEATHER C BAR 30.10 WIND NE 2 SEA NE 1  
 TEMPERATURE DRY 37 WET 35 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.82	30.64	24.36	.528	0.40	.0	10
5	3.80	30.64	24.37	.300	0.50	.0	3
10	3.74	30.70	24.42	.564	1.20	.0	30

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.82	30.64	24.36	357.2	.000
10	3.74	30.70	24.42	352.0	.035

## STATION 18

56-36 N 159-57 W 01 JUN 1939 1526 GCT  
 WEATHER C BAR 30.14 WIND 0 0 SEA NNE 1  
 TEMPERATURE DRY 36 WET 35 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.84	30.70	24.41	.711	0.20	.0	0
5	3.72	30.91	24.59	.715	0.20	.0	0
10	3.66	30.95	24.63	.714	0.20	.0	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.84	30.70	24.41	352.8	.000
10	3.66	30.95	24.63	332.4	.034

## STATION 19

56-44 N 160-02 W 01 JUN 1939 1710 GCT  
 WEATHER C BAR 30.14 WIND 0 0 SEA NNE 0  
 TEMPERATURE DRY 26 WET 35 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.00	31.40	25.04	.738	0.25	.00	0
5	2.80	31.49	25.13	.741	0.40	.00	0
10	2.77	31.49	25.13	.739	0.45	.01	0
15	2.71	31.51	25.15	.742	0.40	.01	0
20	2.61	31.51	25.16	.728	0.40	.02	0
30	2.53	31.53	25.18	.729	0.45	.03	0
40	2.46	31.55	25.20	.723	0.45	.02	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	2.00	31.40	25.04	292.9	.000
10	2.77	31.49	25.13	284.3	.029
20	2.61	31.51	25.16	281.6	.057
30	2.53	31.53	25.18	279.5	.085

## STATION 20

56-52 N 160-10 W 01 JUN 1939 1905 GCT  
 WEATHER C BAR 30.17 WIND 0 0 SEA W 0  
 TEMPERATURE DRY 26 WET 35 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.12	31.76	25.39	.742	0.60	.08	4
5	2.04	31.76	25.40	.743	0.60	.07	4
10	2.00	31.78	25.42	.743	0.75	.09	6
15	2.04	31.78	25.42	.738	0.90	.07	10
20	2.04	31.78	25.42	.737	0.75	.09	10
30	2.03	31.78	25.42	.734	0.75	.06	6
40	2.00	31.80	25.44	.598	0.70	.07	10
50	1.96	31.80	25.44	.592	0.75	.10	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	2.12	31.76	25.39	259.1	.000
10	2.00	31.78	25.42	256.8	.026
20	2.04	31.78	25.42	257.1	.052
30	2.03	31.78	25.42	257.0	.078
50	1.96	31.80	25.44	255.0	.129

## STATION 21

57-00 N 160-18 W 01 JUN 1939 2113 GCT  
 WEATHER C BAR 30.22 WIND 0 0 SEA 0 0  
 TEMPERATURE DRY 39 WET 38 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.11	31.85	25.47	.592	0.80	.09	12
5	1.95	31.85	25.48	.580	0.90	.08	12
10	1.88	31.85	25.48	.547	0.65	.08	14
15	1.91	31.85	25.48	.513	0.80	.08	14
20	1.90	31.85	25.48	.547	0.75	.08	14
30	1.90	31.85	25.48	.516	0.90	.07	12
40	1.90	31.85	25.48	.525	0.75	.07	16
50	1.90	31.85	25.48	.549	0.80	.08	15
60	1.90	31.85	25.48	.551	0.80	.08	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.11	31.85	25.47	252.2	.000
10	1.88	31.85	25.48	250.7	.025
20	1.90	31.85	25.48	250.8	.050
30	1.90	31.85	25.48	250.8	.075
50	1.90	31.85	25.48	250.8	.125

## STATION 22

57-10 N 160-26 W 01 JUN 1939 2328 GCT  
 WEATHER O BAR 30.23 WIND 0 0 SEA  
 TEMPERATURE DRY 38 WET 37 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.05	31.85	25.47	.618	0.55	.02	24
5	1.65	31.85	25.50	.625	0.50	.01	6
10	1.57	31.83	25.49	.610	0.55	.02	8
15	1.57	31.83	25.49	.555	0.65	.02	14
20	1.55	31.83	25.49	.552	0.45	.03	9
30	1.55	31.83	25.49	.570	0.55	.02	10
40	1.54	31.85	25.51	.539	0.70	.02	12
50	1.53	31.85	25.51	.557	0.75	.02	12
60	1.57	31.85	25.50	.493	0.70	.03	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.05	31.85	25.47	251.8	.000
10	1.57	31.83	25.49	250.2	.025
20	1.55	31.83	25.49	250.1	.050
30	1.55	31.83	25.49	250.1	.075
50	1.53	31.85	25.51	248.4	.125



## STATION 23

57-17 N 160-32 W 02 JUN 1939 0122 GCT  
 WEATHER C Z BAR 30.27 WIND ESE 1 SEA 0 0  
 TEMPERATURE DRY 40 WET 38 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2 27	31.80	25.42	.531	0.40	.01	0
5	1 34	31.83	25.50	.538	0.25	.00	0
10	1.27	31.82	25.50	.586	0.45	.00	9
15	1.26	31.80	25.48	.586	0.45	.01	2
20	1.25	31.80	25.48	.612	0.25	.01	2
30	1.27	31.82	25.50	.610	0.45	.00	0
40	1.27	31.82	25.50	.607	0.55	.01	2
50	1.26	31.82	25.50	.601	0.60	.02	2
60	1.30	31.82	25.50	.577	0.55	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	2.27	31.80	25.42	257.1	.000
10	1.27	31.82	25.50	249.2	.025
20	1.25	31.80	25.48	250.6	.050
30	1.27	31.82	25.50	249.1	.075
50	1.26	31.82	25.50	249.1	.125

## STATION 24

57-24 N 160-38 W 02 JUN 1939 0329 GCT  
 WEATHER C Z BAR 30.27 WIND ESE 2 SEA WNW 1  
 TEMPERATURE DRY 39 WET 38 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.74	31.82	25.47		0.50	.01	2
5	1.41	31.83	25.50	.814	0.50	.00	2
10	1.24	31.83	25.51	.698	0.45	.01	2
15	1.23	31.83	25.51	.638	0.55	.01	2
20	1.22	31.83	25.51	.597	0.55	.01	2
30	1.21	31.83	25.51	.607	0.55	.01	2
40	1.21	31.83	25.51	.559	0.70	.01	4
50	1.21	31.82	25.50	.644	0.55	.02	3
55	1.22	31.83	25.51	.633	0.65	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	1.74	31.82	25.47	252.0	.000
10	1.24	31.83	25.51	248.2	.025
20	1.22	31.83	25.51	248.1	.050
30	1.21	31.83	25.51	248.0	.075
50	1.21	31.82	25.50	248.8	.125

## STATION 25

57-33 N 160-45 W 02 JUN 1939 0534 GCT  
 WEATHER C Z BAR 30.31 WIND ESE 1 SEA 0 0  
 TEMPERATURE DRY 37 WET 36 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.73	31.74	25.43	.789	0.20	.00	2
5	1.14	31.74	25.44	.807	0.45	.00	1
10	1.02	31.76	25.47	.808	0.45	.00	2
15	0.99	31.76	25.47	.798	0.50	.00	2
20	0.98	31.74	25.45	.791	0.45	.00	3
30	0.99	31.76	25.47	.783	0.50	.00	1
40	0.99	31.76	25.47	.782	0.55	.00	2
50	0.98	31.76	25.47	.781	0.50	.02	7
55	1.02	31.78	25.48	.777	0.55	.01	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	1.73	31.74	25.41	258.1	.000
10	1.02	31.76	25.47	252.3	.026
20	0.98	31.74	25.45	253.6	.051
30	0.99	31.76	25.47	252.1	.076
50	0.98	31.76	25.47	252.0	.126

## STATION 26

57-41 N 160-55 W 02 JUN 1939 0807 GCT  
 WEATHER C Z BAR 30.36 WIND ESE 1 SEA 0 0  
 TEMPERATURE DRY 34 WET 33 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.04	31.62	25.35	.715	0.50	.00	2
5	1.05	31.67	25.39	.705	0.45	.01	1
10	0.76	31.65	25.39	.545	0.45	.00	2
15	0.74	31.67	25.41	.583	0.45	.01	2
20	0.73	31.65	25.39	.613	0.45	.00	7
30	0.75	31.65	25.39	.685	0.15	.01	1
40	0.74	31.65	25.39	.614	0.55	.00	2
50	0.74	31.67	25.41	.573	0.55	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	1.04	31.62	25.35	263.1	.000
10	0.76	31.65	25.39	259.3	.026
20	0.75	31.65	25.39	259.1	.052
30	0.75	31.65	25.39	259.2	.078
50	0.74	31.67	25.41	257.6	.130

## STATION 27

57-50 N 161-03 W 02 JUN 1939 1014 GCT  
 WEATHER C Z BAR 30.32 WIND ESE 1 SEA 0 0  
 TEMPERATURE DRY 34 WET 33 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.01	31.62	25.35	.712	0.50	.00	3
5	1.02	31.64	25.37	.715	0.50	.00	2
10	1.00	31.62	25.35	.711	0.50	.00	3
15	1.01	31.62	25.35	.724	0.45	.00	3
20	1.02	31.52	25.35	.723	0.45	.00	5
30	1.02	31.52	25.35	.719	0.53	.00	2
40	1.00	31.52	25.35	.722	0.45	.00	3
45	1.00	31.54	25.37	.687	0.60	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.01	31.52	25.35	263.0	.000
10	1.00	31.62	25.35	262.9	.026
20	1.02	31.62	25.35	263.0	.052
30	1.02	31.62	25.35	263.0	.078

## STATION 28

58-00 N 161-10 W 02 JUN 1939 1236 GCT  
 WEATHER BC BAR 30.35 WIND E 1 SEA WNW 1  
 TEMPERATURE DRY 34 WET 33 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.06	31.62	25.35	.716	0.45	.00	6
5	1.05	31.60	25.34	.698	0.50	.00	3
10	1.07	31.62	25.35	.692	0.50	.01	2
15	1.08	31.62	25.35	.716	0.50	.01	9
20	1.07	31.60	25.33	.714	0.50	.00	14
30	1.06	31.62	25.35	.712	0.50	.00	1
40	1.04	31.60	25.34	.718	0.50	.00	3
45	1.04	31.60	25.34	.672	0.50	.01	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.06	31.62	25.35	263.2	.000
10	1.07	31.62	25.35	263.3	.026
20	1.07	31.60	25.33	264.8	.052
30	1.06	31.62	25.35	263.2	.078

## STATION 29

58-10 N 161-21 W 02 JUN 1939 1410 GCT  
 WEATHER BC BAR 30.35 WIND E 1 SEA WNW 1  
 TEMPERATURE DRY 34 WET 33 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.32	31.51	25.25	.715	0.40	.01	6
5	1.30	31.51	25.25	.715	0.45	.01	2
10	1.27	31.51	25.25	.715	0.45	.00	7
15	1.29	31.51	25.25	.713	0.45	.01	6
20	1.30	31.51	25.25	.713	0.35	.01	5
30	1.28	31.51	25.25	.711	0.30	.01	2
40	1.27	31.51	25.25	.702	0.45	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.32	31.51	25.25	273.1	.000
10	1.27	31.51	25.25	272.8	.027
20	1.30	31.51	25.25	272.9	.054
30	1.28	31.51	25.25	272.8	.081

## STATION 30

58-17 N 161-27 W 02 JUN 1939 1628 GCT  
 WEATHER BC BAR 30.34 WIND E 2 SEA WNW 1  
 TEMPERATURE DRY 35 WET 34 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.56	31.38	25.13	.636	0.45	.01	3
5	1.53	31.38	25.13	.639	0.45	.01	1
10	1.52	31.38	25.13	.680	0.45	.01	6
15	1.56	31.38	25.13	.622	0.45	.01	8
20	1.55	31.38	25.13	.666	0.60	.01	9
30	1.55	31.38	25.13	.683	0.55	.01	2
35	1.53	31.38	25.13	.681	0.45	.01	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.56	31.38	25.13	284.4	.000
10	1.52	31.38	25.13	284.1	.028
20	1.55	31.38	25.13	284.3	.056
30	1.55	31.38	25.13	284.3	.084

## STATION 31

58-26 N 161-39 W 02 JUN 1939 1832 GCT  
 WEATHER BC BAR 29.39 WIND E 3 SEA WNW 1  
 TEMPERATURE DRY 40 WET 39 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.51	31.08	24.82	.660	0.50	.01	4
5	2.45	31.08	24.83	.659	0.45	.01	4
10	2.40	31.08	24.83	.662	0.50	.01	6
15	2.44	31.08	24.83	.522	0.50	.03	6
20	2.43	31.08	24.83	.660	0.55	.01	5
25	2.43	31.08	24.83	.657	0.50	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	2.51	31.08	24.82	313.5	.000
10	2.40	31.08	24.83	312.7	.031
20	2.43	31.08	24.83	312.9	.062

## STATION 32

58-36 N 161-43 W 02 JUN 1939 2038 GCT  
 WEATHER BC BAR 30.32 WIND E 2 SEA E 1  
 TEMPERATURE DRY 41 WET 39 DEPTH 20

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.34	30.84	24.57	.653	0.45	.01	2
5	3.26	30.88	24.60	.653	0.45	.02	3
10	3.17	30.88	24.61	.653	0.45	.01	4
15	3.12	30.88	24.62	.652	0.55	.02	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	3.34	30.84	24.57	338.0	.000
10	3.17	30.88	24.61	333.6	.034

## STATION 33

58-32 N 161-27 W 02 JUN 1939 2248 GCT  
 WEATHER BC BAR 30.22 WIND E 2 SEA E 1  
 TEMPERATURE DRY 42 WET 39 DEPTH 20

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.52	30.82	24.53	.736	0.50	.02	2
5	3.33	30.81	24.54	.664	0.55	.02	4
10	3.28	30.81	24.55	.660	0.55	.01	25
15	3.31	30.81	24.54	.657	0.55	.01	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	3.52	30.82	24.53	341.0	.000
10	3.28	30.81	24.55	339.8	.034

## STATION 34

58-35 N 161-16 W 03 JUN 1939 0100 GCT  
 WEATHER BC BAR 30.30 WIND E 3 SEA E 1  
 TEMPERATURE DRY 43 WET 42 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.19	30.77	24.43	.551	0.45	.01	2
5	4.02	30.77	24.45	.548	0.45	.01	2
10	3.85	30.79	24.48	.549	0.50	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	4.19	30.77	24.43	350.7	.000
10	3.85	30.79	24.48	345.1	.035

## STATION 35

58-29 N 161-17 W 03 JUN 1939 0528 GCT  
 WEATHER BC BAR 30.26 WIND ESE 4 SEA ESE 1  
 TEMPERATURE DRY 44 WET 42 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.94	30.91	24.57	.636	0.50	.00	1
5	3.92	30.93	24.59	.629	0.50	.00	1
10	3.90	30.95	24.60	.635	0.60	.00	1
15	3.92	30.97	24.62	.633	0.55	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.94	30.91	24.57	337.8	.000
10	3.90	30.95	24.60	334.5	.034

## STATION 36

58-31 N 161-49 W 03 JUN 1939 0755 GCT  
 WEATHER BC BAR 30.21 WIND ESE 4 SEA ESE 2  
 TEMPERATURE DRY 42 WET 41 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.33	31.11	24.86	.663	0.45	.00	0
5	2.33	31.13	24.88	.664	0.50	.00	1
10	2.28	31.13	24.88	.665	0.50	.00	1
15	2.18	31.09	24.86	.656	0.45	.00	0
20	2.05	31.13	24.90	.672	0.55	.00	1
30	1.96	31.15	24.92	.658		.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.33	31.11	24.86	309.9	.000
10	2.28	31.13	24.88	308.1	.031
20	2.05	31.13	24.90	306.5	.062
30	1.96	31.15	24.92	304.4	.093

## STATION 37

58-26 N 160-55 W 06 JUN 1939 0019 GCT  
 WEATHER 0 BAR 29.60 WIND ESE 4 SEA ESE 2  
 TEMPERATURE DRY 41 WET 41 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.02	30.50	24.02	.587	0.45	.00	9
5	5.46	30.66	24.21	.570	0.40	.00	7
10	5.45	30.90	24.41	.557	0.40	.00	8
14	5.53	30.95	24.44	.489	0.45	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.02	30.50	24.02	389.6	.000
10	5.45	30.90	24.41	353.4	.037

## STATION 38

58-17 N 160-48 W 06 JUN 1939 0157 GCT  
 WEATHER 0 BAR 29.61 WIND SE 3 SEA SE 2  
 TEMPERATURE DRY 41 WET 40 DEPTH 28

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.47	31.20	24.75	.616	0.45	.00	9
5	4.46	31.20	24.75	.612	0.37	.00	8
10	4.43	31.20	24.75	.618	0.35	.00	8
15	4.22	31.22	24.79	.538	0.42	.00	8
20	4.00	31.22	24.81	.598	0.40	.00	8
25	4.00	31.24	24.82	.488	0.42	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.47	31.20	24.75	320.8	.000
10	4.43	31.20	24.75	320.5	.032
20	4.00	31.22	24.81	315.1	.064



## STATION 39

58-08 N 160-39 W 06 JUN 1939 0343 GCT  
 WEATHER 0 PAR 29.59 WIND SE 3 SEA S 2  
 TEMPERATURE DRY 38 WET 38 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.05	31.29	25.02	.685	0.38	.00	8
5	1.99	31.29	25.03	.683	0.37	.00	7
10	1.90	31.29	25.03	.682	0.37	.00	7
15	1.82	31.29	25.04	.683	0.37	.00	6
20	1.81	31.29	25.04	.683	0.55	.00	7
30	1.81	31.29	25.04	.681	0.35	.00	6
40	1.81	31.29	25.04	.680	0.40	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.05	31.29	25.02	294.4	.000
10	1.90	31.29	25.03	293.4	.029
20	1.81	31.29	25.04	292.8	.058
30	1.81	31.29	25.04	292.8	.087

## STATION 40

57-59 N 160-31 W 06 JUN 1939 0601 GCT  
 WEATHER 0 D PAR 29.59 WIND SE 3 SEA S 2  
 TEMPERATURE DRY 37 WET 37 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.71	31.44	25.17	.715	0.80	.00	6
5	1.70	31.44	25.17	.708	0.37	.00	5
10	1.60	31.44	25.17	.718	0.48	.00	5
15	1.52	31.44	25.18	.716	0.40	.00	5
20	1.49	31.44	25.18	.709	0.35	.00	5
30	1.46	31.44	25.18	.713	0.43	.00	5
40	1.45	31.44	25.18	.710	0.40	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.71	31.44	25.17	280.8	.000
10	1.60	31.44	25.17	280.1	.028
20	1.49	31.44	25.18	279.4	.056
30	1.46	31.44	25.18	279.2	.084

## STATION 41

57-49 N 160-23 W 06 JUN 1939 0756 GCT  
 WEATHER O R BAR 29.61 WIND SE 2 SEA S 2  
 TEMPERATURE DRY 37 WET 37 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.49	31.51	25.24	.705	0.40	.00	0
5	1.42	31.51	25.24	.658	0.40	.00	0
10	1.19	31.55	25.29	.640	0.48	.00	0
15	1.21	31.55	25.29	.656	0.43	.00	0
20	1.20	31.55	25.29	.600	0.43	.00	0
30	1.20	31.56	25.30	.575	0.43	.00	0
40	1.19	31.56	25.30	.730	0.40	.00	0
45	1.20	31.67	25.38	.693	0.45	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.49	31.51	25.24	274.1	.000
10	1.19	31.55	25.29	269.3	.027
20	1.20	31.55	25.29	269.3	.054
30	1.20	31.56	25.30	268.5	.081

## STATION 42

57-40 N 160-15 W 06 JUN 1939 1028 GCT  
 WEATHER O R BAR 29.62 WIND SE 1 SEA S 1  
 TEMPERATURE DRY 35 WET 35 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.32	31.64	25.35	.745	0.40	.00	2
5	1.22	31.64	25.36	.736	0.40	.00	5
10	1.16	31.64	25.36	.517	0.42	.00	4
15	1.04	31.64	25.37	.733	0.40	.00	6
20	1.00	31.64	25.37	.628	0.42	.00	4
30	0.96	31.64	25.37	.722	0.42	.00	6
40	0.97	31.64	25.37	.646	0.42	.00	9
50	0.98	31.64	25.37	.712	0.42	.00	4
55	1.00	31.64	25.37	.663	0.43	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.32	31.64	25.35	263.2	.000
10	1.16	31.64	25.36	262.2	.026
20	1.00	31.64	25.37	261.3	.052
30	0.96	31.64	25.37	261.1	.078
50	0.98	31.64	25.37	261.2	.130

## STATION 43

57-31 N 160-07 W 06 JUN 1939 1226 GCT  
 WEATHER O P BAR 29.61 WIND SE 2 SEA SW 1  
 TEMPERATURE DRY 37 WET 37 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.28	31.64	25.35	.722		.00	
5	1.23	31.64	25.36	.745	0.43	.00	1
10	1.12	31.64	25.36	.758	0.43	.00	3
15	1.04	31.64	25.37	.745	0.40	.00	0
20	1.06	31.64	25.37	.740	0.40	.00	4
30	1.04	31.64	25.37	.733	0.10	.00	4
40	1.04	31.64	25.37	.737	0.00	.00	2
50	1.02	31.64	25.37	.742	0.40	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.28	31.64	25.35	262.9	.000
10	1.12	31.64	25.36	262.0	.026
20	1.06	31.64	25.37	261.7	.052
30	1.04	31.64	25.37	261.5	.078
50	1.02	31.64	25.37	261.4	.130

## STATION 44

57-22 N 159-59 W 06 JUN 1939 1435 GCT  
 WEATHER C BAR 29.60 WIND SE 2 SEA SW 1  
 TEMPERATURE DRY 38 WET 38 DEPTH 59

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.18	31.64	25.36	.620	0.43	.00	4
5	1.15	31.64	25.36	.496	0.43	.00	3
10	1.08	31.64	25.37	.622	0.43	.00	6
15	1.08	31.64	25.37	.557	0.43	.00	5
20	1.07	31.64	25.37	.539	0.43	.00	4
30	1.06	31.64	25.37	.541	0.43	.00	3
40	1.05	31.64	25.37	.617	0.45	.00	3
50	1.04	31.64	25.37	.607	0.43	.00	4
55	1.04	31.64	25.37	.536	0.40	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.18	31.64	25.36	262.4	.000
10	1.08	31.64	25.37	261.8	.026
20	1.07	31.64	25.37	261.7	.052
30	1.06	31.64	25.37	261.7	.078
50	1.04	31.64	25.37	261.5	.130

## STATION 45

57-14 N 159-50 W 06 JUN 1939 1638 GCT  
 WEATHER C BAR 29.61 WIND SE 3 SEA SW 2  
 TEMPERATURE DRY 40 WET 39 DEPTH 60

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.05	31.71	25.36	.758	0.83	.00	4
5	2.03	31.71	25.36	.727	0.33	.00	3
10	1.98	31.71	25.36	.666	0.40	.00	6
15	2.00	31.71	25.36	.716	0.35	.00	10
20	2.00	31.71	25.36	.716	0.23	.00	7
30	2.02	31.71	25.36	.715	0.37	.00	3
40	1.99	31.73	25.38	.740	0.30	.00	10
50	1.98	31.73	25.38	.736	0.33	.00	5
55	1.98	31.73	25.38	.605	0.45	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.05	31.71	25.36	262.4	.000
10	1.98	31.71	25.36	262.0	.026
20	2.00	31.71	25.36	262.1	.052
30	2.02	31.71	25.36	262.2	.078
50	1.98	31.73	25.38	260.5	.130

## STATION 46

57-05 N 159-43 W 06 JUN 1939 1841 GCT  
 WEATHER C BAR 29.62 WIND SE 1 SEA SW 2  
 TEMPERATURE DRY 40 WET 39 DEPTH 60

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.43	31.71	25.33	.751	0.33	.01	4
5	2.42	31.65	25.28	.688	0.32	.01	3
10	2.34	31.65	25.29	.438	0.40	.01	9
15	2.31	31.67	25.31	.511	0.55	.01	8
20	2.30	31.69	25.33	.727	0.42	.00	5
30	2.28	31.69	25.33	.736	0.33	.00	2
40	2.24	31.71	25.35	.738	0.40	.02	5
50	2.24	31.73	25.36	.738	0.47	.01	11
55	2.26	31.73	25.36	.554	0.47	.02	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.43	31.71	25.33	265.1	.000
10	2.34	31.65	25.29	269.0	.027
20	2.30	31.69	25.33	265.7	.054
30	2.28	31.69	25.33	265.6	.081
50	2.24	31.73	25.36	262.3	.134

## STATION 47

56-56 N 159-35 W 06 JUN 1939 2040 GCT  
 WEATHER C BAR 29.62 WIND SE 1 SEA SW 2  
 TEMPERATURE DRY 42 WET 40 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.92	31.64	25.24	.698	0.47	.02	7
5	2.90	31.64	25.24	.714	0.45	.02	3
10	2.49	31.71	25.33	.018	0.47	.02	11
15	2.46	31.73	25.35	.691	0.47	.04	5
20	2.46	31.74	25.35	.703	0.42	.02	7
30	2.33	31.76	25.38	.655	0.43	.03	4
40	2.33	31.78	25.40	.706	0.42	.04	8
50	2.33	31.78	25.40	.726	0.50	.05	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	2.92	31.64	25.24	274.1	.000
10	2.49	31.71	25.33	265.5	.027
20	2.46	31.74	25.35	263.1	.053
30	2.33	31.76	25.38	260.6	.079
50	2.33	31.78	25.40	259.1	.131

## STATION 48

56-47 N 159-27 W 06 JUN 1939 2233 GCT  
 WEATHER C BAR 29.63 WIND SE 1 SEA SW 1  
 TEMPERATURE DRY 43 WET 41 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.82	31.35	24.93	.705	0.32	.01	10
5	3.74	31.38	24.96	.705	0.35	.01	3
10	3.17	31.42	25.04	.709	0.47	.01	10
15	3.15	31.42	25.04	.712	0.40	.01	10
20	3.13	31.44	25.06	.705	0.42	.01	10
30	3.13	31.44	25.06	.704	0.65	.01	6
40	3.07	31.46	25.08	.701	0.45	.01	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	3.82	31.35	24.93	303.5	.000
10	3.17	31.42	25.04	292.8	.030
20	3.13	31.44	25.06	291.0	.059
30	3.13	31.44	25.06	291.0	.088

## STATION 49

56-43 N 159-24 W 07 JUN 1939 0006 GCT  
 WEATHER C BAR 29.63 WIND SE 2 SEA SW 1  
 TEMPERATURE DRY 44 WET 42 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.73	31.11	24.75	.659	0.45	.00	1
5	3.73	31.09	24.73	.646	0.42	.00	2
10	3.70	31.26	24.87	.599	0.42	.00	2
15	3.39	31.27	24.90	.658	0.43	.00	2
20	3.38	31.26	24.90	.641	0.43	.00	2
25	3.39	31.26	24.90	.527	0.45	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	3.73	31.11	24.75	320.9	.000
10	3.70	31.26	24.87	309.3	.032
20	3.38	31.26	24.90	306.6	.063

## STATION 50

56-51 N 159-11 W 07 JUN 1939 0158 GCT  
 WEATHER C BAR 29.65 WIND SE 1 SEA SW 1  
 TEMPERATURE DRY 48 WET 45 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.99	31.22	24.81	.687	0.43	.00	2
5	3.99	31.24	24.82	.690	0.42	.00	2
10	3.35	31.22	24.87	.693	0.40	.00	1
15	3.19	31.29	24.94	.691	0.47	.00	1
20	3.16	31.31	24.95	.687	0.45	.00	2
25	3.12	31.36	25.00	.688	0.43	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	3.99	31.22	24.81	314.9	.000
10	3.35	31.22	24.87	309.4	.031
20	3.16	31.31	24.95	301.0	.062

## STATION 51

57-00 N 159-19 W 07 JUN 1939 0412 GCT  
 WEATHER C BAR 29.65 WIND SE 2 SEA SE 1  
 TEMPERATURE DRY 49 WET 45 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.10	31.40	25.03	.612	0.35	.00	1
5	2.97	31.46	25.00	.422	0.28	.00	0
10	2.86	31.46	25.10	.502	0.35	.00	1
15	2.88	31.46	25.10	.705	0.28	.00	2
20	2.88	31.46	25.10	.708	0.30	.00	1
30	2.90	31.46	25.10	.707	0.35	.00	1
40	2.81	31.46	25.10	.693	0.42	.00	2
45	2.87	31.46	25.10	.693	0.47	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.10	31.40	25.03	293.7	.000
10	2.86	31.46	25.10	287.3	.029
20	2.88	31.46	25.10	287.5	.058
30	2.90	31.46	25.10	287.6	.087

## STATION 52

57-09 N 159-26 W 07 JUN 1939 0621 GCT  
 WEATHER C BAR 29.67 WIND S 1 SEA SE 1  
 TEMPERATURE DRY 42 WET 42 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.10	31.58	25.17	.736	0.50	.00	2
5	2.98	31.60	25.20	.703	0.47	.00	2
10	2.61	31.60	25.23	.727	0.47	.00	2
15	2.27	31.60	25.26	.687	0.55	.00	2
20	2.23	31.60	25.26	.739	0.50	.00	2
30	2.22	31.60	25.26	.707	0.50	.00	2
40	2.19	31.60	25.26	.712	0.50	.00	2
50	2.18	31.58	25.25	.682	0.50	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.10	31.58	25.17	230.1	.000
10	2.61	31.60	25.23	274.3	.028
20	2.23	31.60	25.26	272.1	.055
30	2.22	31.60	25.26	272.0	.082
50	2.18	31.58	25.25	273.2	.137

## STATION 53

57-47 N 157-47 W 14 JUN 1939 2309 GCT  
 WEATHER C F PAR 30.12 WIND SW 5 SEA SW 3  
 TEMPERATURE DRY 45 WET 43 DEPTH 12

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.77	29.25	23.07	.637	5.5	.00	16
5	5.67	29.40	23.20	.635	5.2	.00	18
10	5.40	29.74	23.50	.628	5.3	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.77	29.25	23.07	480.8	.000
10	5.40	29.74	23.50	440.1	.046

## STATION 54

57-47 N 157-47 W 16 JUN 1939 2301 GCT  
 WEATHER O Z BAR 29.90 WIND SW 4 SEA SW 2  
 TEMPERATURE DRY 43 WET 42 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.79	29.60	23.34	.334	8*	.00	24
4	5.81	29.60	23.34	.542	8*	.00	24
8	5.56	29.78	23.51	.581	9*	.00	24

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.79	29.60	23.34	454.7	.000



## STATION 55

57-56 N 157-50 W 17 JUN 1939 0106 GCT  
 WEATHER O Z BAR 29.91 WIND SW 3 SEA SW 2  
 TEMPERATURE DRY 44 WET 43 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.22	29.22	22.99	.600	3.2	.00	6
5	5.99	29.25	23.04	.616	4.1	.00	6
10	5.92	29.29	23.08	.519	3.2	.00	6
13	5.93	29.31	23.10	.490	4.1	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.22	29.22	22.99	487.9	.000
10	5.92	29.29	23.08	479.4	.048

## STATION 56

58-06 N 157-50 W 17 JUN 1939 0249 GCT  
 WEATHER O P Z BAR 29.89 WIND SW 3 SEA SW 2  
 TEMPERATURE DRY 44 WET 43 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.10	28.44	22.28	.605	5.2	.00	6
5	7.08	28.46	22.29	.533	4.9	.00	6
10	7.00	28.46	22.30	.544	4.1	.00	6
14	6.95	28.53	22.37	.402	5.9	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.10	28.44	22.28	556.6	.000
10	7.00	28.46	22.30	554.0	.056

## STATION 57

58-17 N 157-46 W 17 JUN 1939 0419 GCT  
 WEATHER O P Z RAP 29.87 WIND SW 3 SEA SW 1  
 TEMPERATURE DRY 44 WET 43 DEPTH 13

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.36	27.97	21.88	.553	4.5	.00	6
5	7.36	28.03	21.92	.594	5.3	.00	6
10	7.28	28.03	21.93	.562	5.0	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	7.36	27.97	21.88	595.0	.000
10	7.28	28.03	21.93	589.6	.059

## STATION 58

58-20 N 158-04 W 17 JUN 1939 0544 GCT  
 WEATHER O Z PAR 29.85 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 45 WET 44 DEPTH 24

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.20	27.95	22.00	.587	4.8	.00	20
5	6.05	28.03	22.08	.625	4.5	.00	21
10	5.88	28.12	22.17	.587	4.6	.00	22
15	5.81	28.17	22.21	.622	5.0	.00	26
20	5.82	28.17	22.21	.623	5.0	.00	23

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	6.20	27.95	22.00	583.2	.000
10	5.88	28.12	22.17	567.0	.058
20	5.82	28.17	22.21	562.7	.114

## STATION 59

58-25 N 158-20 W 17 JUN 1939 0722 GCT  
 WEATHER C Z BAR 29.85 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 21

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.48	28.42	22.45	.638	6.2	.00	T
5	5.53	28.42	22.44	.631	6.2	.00	T
10	5.52	28.46	22.47	.631	6.2	.00	T
15	5.52	28.46	22.47	.527	6.5	.00	T
18	5.52	28.46	22.47	.612	6.5	.00	T

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	5.48	28.42	22.45	540.3	.000
10	5.52	28.46	22.47	537.7	.054

## STATION 60

58-27 N 158-37 W 17 JUN 1939 0857 GCT  
 WEATHER C Z BAR 29.83 WIND WSW 4 SEA WSW 2  
 TEMPERATURE DRY 46 WET 45 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.29	22.79	17.83	.620	6.4	.00	T
5	6.88	24.78	19.44	.608		.00	T
10	6.59	25.57	20.09	.540	7.0	.00	T
15	6.42	25.91	20.37	.574	6.4	.00	T
18	6.42	25.99	20.44	.570	6.9	.00	T

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	7.29	22.79	17.83	983.8	.000
10	6.59	25.57	20.09	766.6	.088

## STATION 61

58-18 N 158-27 W 17 JUN 1939 1048 GCT  
 WEATHER O Z BAR 29.84 WIND WSW 4 SEA WSW 3  
 TEMPERATURE DRY 42 WET 42 DEPTH 26

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.39	29.38	23.31	.647	5.2	.00	6
5	4.41	29.38	23.31	.664	4.4	.00	6
10	4.40	29.43	23.35	.662	4.2	.00	7
15	4.40	29.43	23.35	.655	4.0	.00	2
20	4.41	29.43	23.35	.654	4.9	.00	2
23	4.37	29.43	23.36	.657	4.5	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.39	29.38	23.31	457.4	.000
10	4.40	29.43	23.35	453.8	.046
20	4.41	29.43	23.35	453.9	.091

## STATION 62

58-10 N 158-18 W 17 JUN 1939 1241 GCT  
 WEATHER O F BAR 29.83 WIND WSW 5 SEA W 5  
 TEMPERATURE DRY 41 WET 40 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.23	29.99	23.81	.656	4.3	.00	2
5	4.28	29.99	23.81	.654	4.0	.00	T
10	4.26	29.99	23.81	.641	3.8	.00	2
15	4.25	29.99	23.81	.627	3.9	.00	2
20	4.27	29.99	23.81	.658	3.5	.00	2
25	4.27	29.99	23.81	.658	5.4	.00	2
28	4.25	29.99	23.81	.616	4.2	.00	T

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.23	29.99	23.81	409.9	.000
10	4.26	29.99	23.81	410.2	.041
20	4.27	29.99	23.81	410.3	.082

## STATION 63

58-01 N 158-10 W 17 JUN 1939 1437 GCT  
 WEATHER O F BAR 29.87 WIND WSW 5 SEA W 4  
 TEMPERATURE DRY 41 WET 40 DEPTH 27

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.01	30.28	23.96	.643	3.5	.00	T
5	5.00	30.30	23.98	.643	3.5	.00	T
10	5.02	30.32	23.99	.639	3.2	.00	T
15	4.88	30.37	24.05	.597	3.0	.00	T
20	4.87	30.39	24.06	.626	3.3	.00	O
24	4.90	30.39	24.06	.631	3.3	.00	O

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.01	30.28	23.96	395.4	.000
10	5.02	30.32	23.99	392.6	.039
20	4.87	30.39	24.06	385.9	.078

## STATION 64

57-52 N 158-03 W 17 JUN 1939 1525 GCT  
 WEATHER O F BAR 29.87 WIND WSW 5 SEA W 4  
 TEMPERATURE DRY 41 WET 40 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.48	30.16	23.82	.626	3.4	.00	4
5	5.46	30.16	23.82	.620	3.5	.00	4
10	5.41	30.19	23.85	.630	3.2	.00	4
15	5.42	30.21	23.86	.624	3.2	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.48	30.16	23.82	409.3	.000
10	5.41	30.19	23.85	406.4	.041

## STATION 65

57-30 N 158-05 W 18 JUN 1939 0020 GCT  
 WEATHER O Z BAR 29.90 WIND WSW 4 SEA SW 3  
 TEMPERATURE DRY 42 WET 42 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.00	30.21	23.91	.647	4.9	.00	12
5	4.94	30.21	23.92	.657	4.9	.00	12
10	4.63	30.43	24.12	.636	4.0	.00	10
15	4.42	30.82	24.45	.636	5.5	.00	8
19	4.44	30.88	24.50	.640	5.3	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	5.00	30.21	23.91	400.6	.000
10	4.63	30.43	24.12	380.5	.039

## STATION 66

57-39 N 158-12 W 18 JUN 1939 0208 GCT  
 WEATHER O Z BAR 29.90 WIND WSW 3 SEA W 3  
 TEMPERATURE DRY 41 WET 40 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.24	30.95	24.57	.672	3.4	.00	6
5	4.04	30.97	24.61	.644	3.5	.00	2
10	3.96	30.99	24.63	.643	7.0	.00	T
15	3.71	31.08	24.72	.666	5.2	.00	T
20	3.62	31.11	24.76	.636	4.0	.00	T
29	3.63	31.11	24.75	.628	5.8	.00	T

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	4.24	30.95	24.57	337.5	.000
10	3.96	30.99	24.63	332.2	.033
20	3.62	31.11	24.76	320.0	.066

## STATION 67

57-48 N 158-24 W 18 JUN 1939 0402 GCT  
 WEATHER 0 Z BAR 29.90 WIND WSW 3 SEA W 1  
 TEMPERATURE DRY 40 WET 41 DEPTH 38

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.22	30.75	24.41	.568	4.5	.00	T
5	4.08	30.77	24.44	.571	3.2	.00	T
10	3.97	30.93	24.59	.572	3.0	.00	T
15	3.80	30.95	24.51	.576	3.2	.00	T
20	3.73	30.95	24.52	.542	3.0	.00	2
30	3.69	30.99	24.65	.572	3.0	.00	T
35	3.62	31.02	24.62	.571	3.2	.00	T

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.22	30.75	24.41	332.4	.000
10	3.87	30.93	24.59	335.7	.034
20	3.73	30.95	24.62	333.0	.067
30	3.69	30.99	24.65	329.7	.100

## STATION 68

57-55 N 158-27 W 18 JUN 1939 0528 GCT  
 WEATHER C BAR 29.90 WIND WSW 3 SEA W 1  
 TEMPERATURE DRY 41 WET 41 DEPTH 37

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.85	30.19	23.91	.562	3.0	.00	T
5	4.71	30.26	23.98	.544	4.2	.00	0
10	3.44	30.88	24.59	.515	4.4	.00	T
15	3.22	30.99	24.70	.591	4.2	.00	0
20	3.14	31.08	24.77	.676	4.2	.00	0
30	3.12	31.08	24.78	.678	4.4	.00	0
34	3.12	31.08	24.78	.663	4.8	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.85	30.19	23.91	400.5	.000
10	3.44	30.88	24.59	335.8	.037
20	3.14	31.08	24.77	318.3	.070
30	3.12	31.08	24.78	318.1	.102

## STATION 69

58-06 N 158-35 W 18 JUN 1939 0730 GCT  
 WEATHER C BAR 29.86 WIND WSW 3 SEA SW 1  
 TEMPERATURE DRY 40 WET 40 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.62	28.75	22.69	.637	5.0	.00	T
5	3.48	30.57	24.34	.680	5.8	.00	2
10	3.13	30.86	24.60	.637	6.3	.00	T
15	3.11	30.88	24.62	.681	6.3	.00	T
20	3.12	30.90	24.63	.674	6.4	.00	0
30	3.13	30.90	24.63	.681	6.5	.00	0
35	3.11	30.91	24.64	.682	6.4	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.62	28.75	22.69	516.8	.000
10	3.13	30.86	24.60	334.8	.043
20	3.12	30.90	24.63	331.8	.076
30	3.13	30.90	24.63	331.9	.109

## STATION 70

58-15 N 158-43 W 18 JUN 1939 0913 GCT  
 WEATHER O BAR 29.86 WIND WSW 3 SEA WSW 1  
 TEMPERATURE DRY 40 WET 40 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.49	25.23	19.83	.636	6.0	.00	8
5	5.91	26.33	20.76	.637	6.0	.00	6
10	3.35	30.43	24.24	.667	6.4	.00	0
15	3.32	30.48	24.28	.672	6.5	.00	0
20	3.29	30.48	24.28	.670	6.3	.00	0
30	3.30	30.50	24.30	.664	6.3	.00	0
35	3.27	30.52	24.32	.668	6.9	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.49	25.23	19.83	791.2	.000
10	3.35	30.43	24.24	369.2	.058
20	3.29	30.48	24.28	364.9	.095
30	3.30	30.50	24.30	363.5	.131



## STATION 71

58-27 N 159-37 W 19 JUN 1939 0021 GCT  
 WEATHER O F Z BAR 29.81 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 41 WET 40 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.12	25.90	20.16	.595	2.5	.00	6
5	7.46	26.49	20.70	.598	2.0	.00	6
10	3.50	30.61	24.37	.664	4.5	.00	2
15	3.48	30.62	24.38	.663	4.2	.00	2
20	3.53	30.64	24.39	.658	5.2	.00	0
30	3.55	30.64	24.39	.657	5.0	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.12	25.90	20.16	759.5	.000
10	3.50	30.61	24.37	356.8	.056
20	3.53	30.64	24.39	354.8	.092
30	3.55	30.64	24.39	355.0	.127

## STATION 72

58-24 N 159-33 W 19 JUN 1939 0140 GCT  
 WEATHER O F Z BAR 29.81 WIND WSW 4 SEA SW 2  
 TEMPERATURE DRY 42 WET 42 DEPTH 32

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.34	26.62	20.82	.615	3.1	.00	2
5	6.97	26.85	21.05	.016	4.8	.00	4
10	3.58	30.12	23.97	.668	4.2	.00	4
15	3.20	30.62	24.40	.568	4.2	.00	6
20	3.15	30.68	24.45	.668	4.9	.00	4
29	3.14	30.70	24.47	.666	4.1	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.34	26.62	20.82	696.0	.000
10	3.58	30.12	23.97	394.5	.055
20	3.15	30.68	24.45	348.7	.092

## STATION 73

58-15 N 159-25 W 19 JUN 1939 0326 GCT  
 WEATHER O F Z BAR 29.80 WIND WSW 4 SEA SW 3  
 TEMPERATURE DRY 43 WET 43 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.51	25.05	19.57	.612	3.8	.00	4
5	7.47	25.07	19.59	.624	2.9	.00	2
10	3.01	30.68	24.47	.675	4.9	.00	0
15	2.96	30.70	24.49	.672	4.3	.00	0
20	2.95	30.72	24.50	.670	4.8	.00	0
30	2.97	30.75	24.52	.668	4.8	.00	0
35	2.93	30.75	24.53	.668	4.8	.00	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.51	25.05	19.57	816.0	.000
10	3.01	30.68	24.47	347.5	.058
20	2.95	30.72	24.50	344.1	.093
30	2.97	30.75	24.52	342.0	.127

## STATION 74

58-09 N 159-17 W 19 JUN 1939 0515 GCT  
 WEATHER O F BAR 29.81 WIND WSW 4 SEA SW 3  
 TEMPERATURE DRY 42 WET 42 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.34	27.90	22.05	.643	2.8	.00	0
5	5.28	28.69	22.68	.647	3.9	.00	0
10	3.57	29.31	23.33	.681	4.0	.00	0
15	2.84	29.87	23.84	.666	4.2	.00	2
20	2.83	29.90	23.86	.630	4.2	.00	0
30	2.84	29.92	23.87	.638	6.0	.00	1
35	2.81	29.92	23.88	.730	4.8	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.34	27.90	22.05	578.1	.000
10	3.57	29.31	23.33	455.7	.052
20	2.83	29.90	23.86	405.3	.095
30	2.84	29.92	23.87	403.9	.135

## STATION 75

57-58 N 159-09 W 19 JUN 1939 0702 GCT  
 WEATHER 0 BAR 29.83 WIND WSW 4 SEA SW 4  
 TEMPERATURE DRY 41 WET 41 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.86	28.46	22.54	.635			
5	4.85	28.46	22.54	.657			
10	2.95	29.97	23.91	.723			
15	2.46	30.28	24.19	.671			
20	2.43	30.28	24.19	.649			
30	2.46	31.18	24.91	.697			
40	2.45	31.20	24.92	.722			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.86	28.46	22.54	531.2	.000
10	2.95	29.97	23.91	400.9	.047
20	2.43	30.28	24.19	373.6	.086
30	2.46	31.18	24.91	305.6	.120

## STATION 76

57-48 N 159-01 W 19 JUN 1939 0853 GCT  
 WEATHER 0 BAR 29.83 WIND WSW 4 SEA SW 2  
 TEMPERATURE DRY 40 WET 39 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.61	28.75	22.69	.642			
5	2.90	31.09	24.80	.696			
10	2.74	31.29	24.97	.711			
15	2.69	31.33	25.01	.656			
20	2.70	31.33	25.01	.712			
30	2.71	31.33	25.01	.708			
40	2.68	31.33	25.01	.710			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.61	28.75	22.69	516.7	.000
10	2.74	31.29	24.97	299.3	.041
20	2.70	31.33	25.01	295.9	.071
30	2.71	31.33	25.01	296.0	.101

## STATION 77

57-39 N 158-53 W 19 JUN 1939 1054 GCT  
 WEATHER 0 BAR 29.83 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 38 WET 37 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.11	30.88	24.53	.675			
5	3.66	31.24	24.86	.690			
10	3.52	31.35	24.96	.693			
15	3.50	31.35	24.96	.696			
20	3.50	31.36	24.96	.693			
30	3.51	31.36	24.96	.692			
40	3.47	31.35	24.96	.690			
44	3.46	31.35	24.96	.690			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.11	30.88	24.53	341.6	.000
10	3.52	31.35	24.96	301.0	.032
20	3.50	31.36	24.96	300.1	.062
30	3.51	31.36	24.96	300.2	.092

## STATION 78

57-31 N 158-46 W 19 JUN 1939 1253 GCT  
 WEATHER 0 BAR 29.84 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 38 WET 37 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.97	31.31	24.88	.685			
5	3.89	31.31	24.89	.683			
10	3.90	31.29	24.87	.684			
15	3.85	31.33	24.91	.686			
20	3.78	31.31	24.90	.687			
30	3.78	31.31	24.90	.684			
35	3.82	31.31	24.90	.681			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.97	31.31	24.88	307.9	.000
10	3.90	31.29	24.87	308.8	.031
20	3.78	31.31	24.90	306.3	.062
30	3.78	31.31	24.90	306.3	.093

## STATION 79

57-13 N 158-25 W 19 JUN 1939 1427 GCT  
 WEATHER O Z BAR 29.85 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 39 WET 38 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.85	30.91	24.48	.645			
5	4.79	30.91	24.48	.640			
10	4.81	30.95	24.51	.570			
15	4.80	30.95	24.51	.643			
20	4.80	30.95	24.51	.646			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.85	30.91	24.48	346.4	.000
10	4.81	30.95	24.51	343.0	.034
20	4.80	30.95	24.51	343.0	.068

## STATION 80

57-08 N 158-32 W 19 JUN 1939 1527 GCT  
 WEATHER O Z BAR 29.86 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 39 WET 38 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.45	30.30	23.93	.643			
5	5.37	30.30	23.94	.638			
10	5.29	30.59	24.18	.643			
15	5.27	30.64	24.22	.640			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.45	30.30	23.93	398.4	.000
10	5.29	30.59	24.18	375.0	.039

## STATION 81

57-01 N 158-38 W 19 JUN 1939 1702 GCT  
 WEATHER 0 Z BAR 29.89 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 40 WET 40 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.31	30.53	24.13	.644			
5	5.23	30.59	24.18	.689			
10	5.18	30.64	24.23	.643			
15	5.08	30.72	24.30	.654			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	5.31	30.53	24.13	379.7	.000
10	5.18	30.64	24.23	370.1	.037

## STATION 82

57-04 N 158-53 W 19 JUN 1939 1904 GCT  
 WEATHER 0 BAR 29.91 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 39 WET 39 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.43	31.29	24.82	.665			
5	4.41	31.31	24.84	.684			
10	4.44	31.33	24.85	.687			
15	4.36	31.33	24.86	.671			
20	4.25	31.35	24.89	.656			
30	4.11	31.38	24.92	.669			
35	4.04	31.40	24.95	.669			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	4.43	31.29	24.82	313.7	.000
10	4.44	31.33	24.85	310.8	.031
20	4.25	31.35	24.89	307.6	.062
30	4.11	31.38	24.92	304.0	.093

## STATION 83

57-08 N 158-46 W 19 JUN 1939 2025 GCT  
 WEATHER 0 BAR 29.89 WIND W 3 SEA SW 2  
 TEMPERATURE DRY 40 WET 40 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.93	31.31	24.89	.641			
5	3.89	31.33	24.91	.650			
10	3.89	31.35	24.92	.584			
15	3.84	31.35	24.93	.668			
20	3.85	31.35	24.93	.620			
30	3.84	31.36	24.93	.644			
40	3.81	31.36	24.94	.645			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	3.93	31.31	24.89	307.5	.000
10	3.89	31.35	24.92	304.2	.031
20	3.85	31.35	24.93	303.9	.061
30	3.84	31.36	24.93	303.1	.091

## STATION 84

57-18 N 158-53 W 19 JUN 1939 2205 GCT  
 WEATHER 0 BAR 29.88 WIND W 4 SEA W 2  
 TEMPERATURE DRY 38 WET 37 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.50	31.51	25.08	.668			
5	3.45	31.49	25.07	.676			
10	3.46	31.49	25.07	.670			
15	3.44	31.49	25.07	.676			
20	3.41	31.51	25.09	.689			
30	3.34	31.53	25.11	.626			
40	3.31	31.53	25.12				
44	3.10	31.55	25.14	.681			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	3.50	31.51	25.08	288.7	.000
10	3.46	31.49	25.07	289.9	.029
20	3.41	31.51	25.09	288.0	.058
30	3.34	31.53	25.11	285.9	.087

## STATION 85

57-27 N 159-01 W 19 JUN 1939 2337 GCT  
 WEATHER O F BAR 29.88 WIND W 3 SEA WNW 2  
 TEMPERATURE DRY 40 WET 38 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.88	31.04	24.68	.681			
5	3.20	31.42	25.04	.693			
10	3.08	31.51	25.12	.687			
15	3.03	31.51	25.12	.717			
20	3.02	31.51	25.13	.698			
30	3.00	31.51	25.13	.690			
40	2.96	31.53	25.15	.676			
45	2.97	31.51	25.13	.700			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.88	31.04	24.68	327.5	.000
10	3.08	31.51	25.12	285.2	.031
20	3.02	31.51	25.13	284.8	.060
30	3.00	31.51	25.13	284.7	.088

## STATION 86

57-36 N 159-10 W 20 JUN 1939 0131 GCT  
 WEATHER O F BAR 29.88 WIND W 4 SEA WNW 2  
 TEMPERATURE DRY 40 WET 38 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.59	27.95	21.95	.588			
5	6.55	27.99	21.99	.620			
10	3.28	31.13	24.80	.700			
15	2.75	31.42	25.08	.718			
20	2.73	31.44	25.09	.725			
30	2.73	31.46	25.11	.626			
40	2.69	31.44	25.10	.717			
44	2.69	31.51	25.15	.725			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.59	27.95	21.95	587.5	.000
10	3.28	31.13	24.80	315.6	.045
20	2.73	31.44	25.09	287.8	.075
30	2.73	31.46	25.11	286.3	.104



## STATION 87

57-41 N 159-18 W 20 JUN 1939 0317 GCT  
 WEATHER O C F BAR 29.88 WIND W 4 SEA WNW 2  
 TEMPERATURE DRY 40 WET 39 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.95	29.27	23.06	.654			
5	5.24	29.36	23.21	.653			
10	2.73	31.36	25.03	.724			
15	2.70	31.47	25.12	.718			
20	2.70	31.36	25.03	.720			
30	2.70	31.51	25.15	.718			
40	2.68	31.36	25.03	.718			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.95	29.27	23.06	481.2	.000
10	2.73	31.36	25.03	293.9	.039
20	2.70	31.36	25.03	293.7	.068
30	2.70	31.51	25.15	282.3	.097

## STATION 88

57-51 N 159-25 W 20 JUN 1939 0512 GCT  
 WEATHER C BAR 29.88 WIND W 4 SEA NW 3  
 TEMPERATURE DRY 39 WET 38 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.62	28.46	22.46	.642			
5	5.60	28.46	22.47	.644			
10	3.37	30.37	24.19	.677			
15	2.65	31.15	24.87	.694			
20	2.66	31.13	24.85	.691			
30	2.65	31.13	24.85	.697			
35	2.63	31.20	24.91	.703			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.62	28.46	22.46	538.7	.000
10	3.37	30.37	24.19	373.9	.046
20	2.66	31.13	24.85	310.8	.080
30	2.65	31.13	24.85	310.7	.111

## STATION 89

58-02 N 159-33 W 20 JUN 1939 0702 GCT  
 WEATHER O F BAR 29.86 WIND WNW 4 SEA WNW 3  
 TEMPERATURE DRY 28 WET 38 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.07	27.95	22.01	.617			
5	5.93	28.17	22.20	.620			
10	2.96	30.88	24.63	.659			
15	2.95	30.86	24.61	.667			
20	2.96	30.97	24.70	.669			
30	2.90	30.86	24.61	.678			
35	2.92	30.88	24.63	.678			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.07	27.95	22.01	581.8	.000
10	2.96	30.88	24.63	332.0	.046
20	2.96	30.97	24.70	325.2	.079
30	2.98	30.86	24.61	333.7	.112

## STATION 90

58-12 N 159-40 W 20 JUN 1939 0850 GCT  
 WEATHER O F BAR 29.86 WIND WNW 4 SEA WNW 2  
 TEMPERATURE DRY 28 WET 38 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.27	28.48	22.41	.623			
5	4.47	28.93	22.95	.643			
10	3.22	30.72	24.48	.657			
15	3.21	30.75	24.51	.663			
20	3.20	30.75	24.51	.651			
30	3.21	30.77	24.52	.659			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.27	28.48	22.41	544.1	.000
10	3.22	30.72	24.48	346.1	.045
20	3.20	30.75	24.51	343.7	.079
30	3.21	30.77	24.52	342.3	.113

## STATION 91

58-21 N 159-49 W 20 JUN 1939 1040 GCT  
 WEATHER 0 BAR 29.86 WIND WNW 4 SEA WNW 2  
 TEMPERATURE DRY 39 WET 38 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.49	30.23	23.87	.619			
5	5.47	30.23	23.87	.620			
10	5.51	30.26	23.89	.617			
15	5.03	30.23	23.92	.632			
20	4.40	30.54	24.31	.619			
30	4.35	30.66	24.33	.608			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	5.49	30.23	23.87	404.1	.000
10	5.51	30.26	23.89	402.1	.040
20	4.40	30.64	24.31	362.5	.078
30	4.35	30.66	24.33	360.6	.114

## STATION 92

58-29 N 159-56 W 20 JUN 1939 1909 GCT  
 WEATHER 0 BAR 29.88 WIND WSW 4 SEA WSW 2  
 TEMPERATURE DRY 41 WET 41 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.47	27.09	21.17	.604			
5	7.48	28.15	22.00	.601			
10	4.66	30.70	24.33	.578			
15	4.70	30.72	24.34	.598			
20	4.71	30.72	24.34	.603			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	7.47	27.09	21.17	662.3	.000
10	4.66	30.70	24.33	360.4	.051
20	4.71	30.72	24.34	359.5	.087

## STATION 93

58-33 N 159-59 W 20 JUN 1939 2043 GCT  
 WEATHER C BAR 29.88 WIND WSW 2 SEA WSW 1  
 TEMPERATURE DRY 44 WET 43 DEPTH 29

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.58	25.57	19.97	.605			
5	6.00	29.49	23.23	.580			
10	5.74	30.23	23.84	.593			
15	5.65	30.34	23.94	.585			
20	5.50	30.44	24.04	.588			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.58	25.57	19.97	777.7	.000
10	5.74	30.23	23.84	406.9	.059
20	5.50	30.44	24.04	388.6	.099

## STATION 94

58-21 N 160-31 W 21 JUN 1939 0539 GCT  
 WEATHER C BAR 29.89 WIND W 4 SEA WSW 2  
 TEMPERATURE DRY 46 WET 44 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.91	29.16	22.73	.604			
6	7.80	29.16	22.75	.601			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.91	29.16	22.73	512.8	.000

## STATION 95

58-12 N 160-22 W 21 JUN 1939 0724 GCT  
 WEATHER C BAR 99.93 WIND W 2 SEA W 2  
 TEMPERATURE DRY 46 WET 44 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.12	30.52	23.90	.554			
5	7.14	30.52	23.90	.606			
10	6.21	30.82	24.25	.612			
15	5.94	30.91	24.36	.594			
20	5.88	30.95	24.40	.622			
25	5.77	30.97	24.42	.622			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	7.12	30.52	23.90	401.8	.000
10	6.21	30.82	24.25	367.8	.038
20	5.88	30.95	24.40	354.4	.074

## STATION 96

58-04 N 160-15 W 21 JUN 1939 0908 GCT  
 WEATHER C BAR 29.93 WIND W 2 SEA W 2  
 TEMPERATURE DRY 42 WET 43 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.57	30.97	24.65	.668			
5	3.53	31.00	24.68	.667			
10	3.56	31.26	24.88	.663			
15	3.01	31.26	24.93	.697			
20	2.51	31.27	24.97	.697			
30	2.47	31.27	24.98	.677			
40	2.53	31.27	24.97	.694			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	3.57	30.97	24.65	330.1	.000
10	3.56	31.26	24.88	308.1	.032
20	2.51	31.27	24.97	299.1	.062
30	2.47	31.27	24.98	298.8	.092

## STATION 97

57-53 N 160-07 W 21 JUN 1939 1057 GCT  
 WEATHER O F BAR 29.93 WIND W 3 SEA W 2  
 TEMPERATURE DRY 41 WET 40 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.54	31.08	24.64	.492			
5	4.51	31.09	24.66	.657			
10	4.49	31.11	24.67	.659			
15	3.47	31.46	25.05	.706			
20	2.28	31.51	25.18	.704			
30	2.27	31.49	25.17	.676			
40	2.35	31.51	25.18	.711			
48	2.25	31.51	25.19	.599			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.54	31.08	24.64	330.6	.000
10	4.49	31.11	24.67	327.9	.033
20	2.28	31.51	25.18	279.2	.063
30	2.27	31.49	25.17	280.7	.091

## STATION 98

57-45 N 159-57 W 21 JUN 1939 1258 GCT  
 WEATHER O F Z BAR 29.94 WIND W 3 SEA W 2  
 TEMPERATURE DRY 40 WET 40 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT
0	5.46	30.12	23.79	.622		
5	5.42	30.10	23.78	.632		
10	2.67	31.51	25.15	.713		
15	2.59	31.51	25.16	.671		
20	2.57	31.51	25.16	.711		
30	2.57	31.51	25.16	.694		
40	2.56	31.51	25.16	.714		
45	2.47	31.51	25.17	.710		

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.46	30.12	23.79	412.1	.000
10	2.67	31.51	25.15	282.0	.035
20	2.57	31.51	25.16	281.3	.063
30	2.57	31.51	25.16	281.3	.091

## STATION 99

57-35 N 159-51 W 21 JUN 1939 1454 GCT  
 WEATHER O F Z BAR 29.98 WIND W 2 SEA NW 2  
 TEMPERATURE DRY 39 WET 39 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.54	31.55	25.20	.671			
5	2.51	31.55	25.20	.711			
10	2.54	31.55	25.20	.727			
15	2.54	31.55	25.20	.687			
20	2.54	31.55	25.20	.714			
30	2.55	31.55	25.20	.718			
40	2.51	31.55	25.20	.717			
48	2.40	31.55	25.21	.712			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	2.54	31.55	25.20	278.0	.000
10	2.54	31.55	25.20	278.1	.028
20	2.54	31.55	25.20	278.1	.056
30	2.55	31.55	25.20	278.3	.084

## STATION 100

57-27 N 159-41 W 21 JUN 1939 1654 GCT  
 WEATHER O F BAR 30.01 WIND SW 2 SEA SW 2  
 TEMPERATURE DRY 36 WET 35 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.65	31.58	25.21	.689			
5	2.63	31.60	25.23	.701			
10	2.66	31.60	25.23	.726			
15	2.65	31.60	25.23	.735			
20	2.65			.714			
30	2.66	31.60	25.23	.693			
40	2.71	31.60	25.22	.708			
48	2.62	31.60	25.23	.732			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	2.65	31.58	25.21	276.6	.000
10	2.66	31.60	25.23	275.2	.028
20	2.65	31.60	25.23	275.2	.055
30	2.66	31.60	25.23	275.2	.083

## STATION 101

57-18 N 159-35 W 21 JUN 1939 1949 GCT  
 WEATHER O F BAR 30.03 WIND W 3 SEA W 2  
 TEMPERATURE DRY 40 WET 40 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.12	31.60	25.19	.714			
5	3.04	31.62	25.21	.729			
10	3.05	31.62	25.21	.697			
15	3.05	31.60	25.19	.716			
20	3.04	31.60	25.20	.728			
30	3.05	31.62	25.21	.725			
40	3.01	31.62	25.21	.687			
50	3.01	31.62	25.21	.676			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	3.12	31.60	25.19	278.7	.000
10	3.05	31.62	25.21	276.7	.028
20	3.04	31.60	25.20	278.2	.056
30	3.05	31.62	25.21	276.7	.084
50	3.01	31.62	25.21	276.5	.139

## STATION 102

57-09 N 159-26 W 21 JUN 1939 2028 GCT  
 WEATHER O F BAR 30.03 WIND W 3 SEA W 2  
 TEMPERATURE DRY 40 WET 40 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.94	31.51	25.04	.697			
5	3.83	31.51	25.05	.552			
10	3.70	31.51	25.07	.692			
15	3.60	31.55	25.11	.681			
20	3.54	31.56	25.12	.663			
30	3.53	31.56	25.12	.687			
40	3.48	31.56	25.13	.677			
50	3.45	31.56	25.13	.691			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	3.94	31.51	25.04	292.5	.000
10	3.70	31.51	25.07	290.4	.029
20	3.54	31.56	25.12	285.3	.058
30	3.53	31.56	25.12	285.3	.087
50	3.45	31.56	25.13	284.7	.144



## STATION 103

57-00 N 159-18 W 21 JUN 1939 2205 GCT  
 WEATHER O F BAR 30.08 WIND W 3 SEA W 2  
 TEMPERATURE DRY 43 WET 43 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.65	31.36	24.85	.696			
5	4.56	31.38	24.88	.623			
10	4.47	31.36	24.87	.681			
15	4.41	31.36	24.88	.681			
20	4.37	31.38	24.90	.693			
30	4.30	31.38	24.91	.680			
40	4.22	31.40	24.93	.687			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.65	31.36	24.85	310.5	.000
10	4.47	31.36	24.87	308.8	.031
20	4.37	31.38	24.90	306.4	.062
30	4.30	31.38	24.91	305.8	.093

## STATION 104

56-51 N 159-11 W 22 JUN 1939 0011 GCT  
 WEATHER O BAR 30.08 WIND W 3 SEA W 2  
 TEMPERATURE DRY 45 WET 44 DEPTH 29

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.03	31.20	24.69	.664			
5	5.01	31.26	24.74	.684			
10	4.94	31.26	24.75	.689			
15	4.89	31.26	24.75	.691			
20	4.84			.699			
25	4.86	31.26	24.75	.703			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.03	31.20	24.69	326.4	.000
10	4.94	31.26	24.75	321.0	.032
20	4.84	31.26	24.76	320.1	.064

## STATION 105

56-47 N 159-05 W 22 JUN 1939 0115 GCT  
 WEATHER O Z BAR 30.10 WIND H 3 SEA W 2  
 TEMPERATURE DRY 45 WET 44 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.45	30.62	24.07	.657			
5	6.32	30.62	24.03	.657			
10	6.33	30.66	24.11	.612			
12	6.34	30.66	24.11	.652			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	6.45	30.62	24.07	385.5	.000
10	6.33	30.66	24.11	381.2	.038

## STATION 106

OFF CAPE NEWENHAM 10 JUL 1939 1645 GCT  
 WEATHER O BAR 29.98 WIND W 3 SEA W 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.64	30.52	23.84	.527	1.20	.00	5
5	7.46	30.59	23.91	.532	0.75	.00	4
10	7.43	30.61	23.93	.457	1.10	.00	4
15	7.46	30.62	23.94	.489	2.00	.00	3
20	7.33	30.62	23.96	.557		.00	4
30	7.26	30.64	23.98	.537	1.40	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	7.64	30.52	23.84	407.7	.000
10	7.43	30.61	23.93	398.4	.040
20	7.33	30.62	23.96	396.4	.080
30	7.26	30.64	23.98	394.2	.120

## STATION 107

58-32 N 162-00 W 10 JUL 1939 2003 GCT  
 WEATHER 0 BAR 30.00 WIND WSW 3 SEA W 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 37

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.21	30.64	23.99	.598	0.75	.00	5
5	7.17	30.64	23.99	.528	0.55	.00	3
10	6.99	30.66	24.03	.476	0.55	.00	4
15	6.76	30.79	24.16	.491	0.65	.00	5
20	6.60	30.82	24.21	.463	0.63	.00	4
30	6.44	30.86	24.26	.548	1.10	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.21	30.64	23.99	393.2	.000
10	6.99	30.66	24.03	389.1	.039
20	6.60	30.82	24.21	372.5	.077
30	6.44	30.86	24.26	367.7	.114

## STATION 108

58-23 N 161-52 W 10 JUL 1939 2221 GCT  
 WEATHER 0 BAR 30.01 WIND WNW 4 SEA W 2  
 TEMPERATURE DRY 49 WET 47 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.92	30.79	24.14	.605	0.80	.00	3
5	6.85	30.73	24.10	.447	1.35	.00	2
10	6.62	30.77	24.16	.593	0.53	.00	3
15	6.27	30.88	24.29	.517	0.73	.00	5
20	6.07	30.93	24.36	.589	0.85	.00	3
30	5.99	30.93	24.37	.460	0.80	.00	4
40	6.08	30.93	24.36	.601	1.20	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.92	30.79	24.14	378.4	.000
10	6.62	30.77	24.16	376.4	.038
20	6.07	30.93	24.36	358.1	.075
30	5.99	30.93	24.37	357.2	.111

## STATION 109

58-14 N 161-43 W 11 JUL 1939 0053 GCT  
 WEATHER C BAR 30.00 WIND W 4 SEA W 3  
 TEMPERATURE DRY 47 WET 46 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.09	30.70	24.05	.611	0.80	.00	2
5	7.05	30.70	24.05	.533	0.57	.00	3
10	6.30	30.91	24.31	.623	0.57	.00	3
15	5.78	31.08	24.51	.586	0.60	.00	3
20	5.60	31.08	24.53	.579	0.75	.00	4
30	5.58	31.08	24.53	.566	0.65	.00	2
40	5.67	31.11	24.55	.583	0.57	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.09	30.70	24.05	387.2	.000
10	6.30	30.91	24.31	362.1	.037
20	5.60	31.08	24.53	341.6	.072
30	5.58	31.08	24.53	341.4	.106

## STATION 110

58-05 N 161-35 W 11 JUL 1939 0513 GCT  
 WEATHER O BAR 29.96 WIND WNW 4 SEA W 2  
 TEMPERATURE DRY 43 WET 43 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.98	31.06	24.47	.581	0.53	.00	18
5	5.91	31.08	24.49	.548	0.50	.00	16
10	5.40	31.08	24.55	.548	0.45	.00	16
15	4.88	31.17	24.68	.591	0.57	.00	15
20	4.65	31.22	24.74	.528	0.47	.00	18
30	4.66	31.22	24.74	.547	0.55	.00	17
39	4.64	31.22	24.74	.624	0.47	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.98	31.06	24.47	347.1	.000
10	5.40	31.08	24.55	339.3	.034
20	4.65	31.22	24.74	321.2	.067
30	4.66	31.22	24.74	321.4	.099

## STATION 111

57-55 N 161-28 W 11 JUL 1939 0746 GCT  
 WEATHER 0 BAR 29.98 WIND W 3 SEA WNW 2  
 TEMPERATURE DRY 44 WET 44 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.77	31.24	24.64	.602	0.55	.00	17
5	5.32	31.29	24.73	.502	0.60	.00	16
10	4.63	31.36	24.86	.538	0.65	.00	19
15	4.54	31.36	24.87	.597	0.57	.00	16
20	4.34	31.38	24.90	.542	0.70	.00	18
30	4.33	31.38	24.90	.582	0.65	.00	17
38	4.31	31.38	24.90	.591	0.70	.00	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.77	31.24	24.64	331.3	.000
10	4.63	31.36	24.86	310.4	.032
20	4.34	31.38	24.90	306.1	.063
30	4.33	31.38	24.90	306.1	.094

## STATION 112

57-46 N 161-19 W 11 JUL 1939 1015 GCT  
 WEATHER 0 BAR 29.96 WIND W 2 SEA WNW 2  
 TEMPERATURE DRY 44 WET 43 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.56	31.22	24.65	.632	0.57	.00	15
5	5.57	31.22	24.64	.338	0.65	.00	14
10	5.26	31.35	24.78	.506		.00	2
15	4.29	31.44	24.95	.471	0.52	.00	7
20	3.25	31.53	25.12	.501	0.67	.00	10
30	2.68	31.60	25.22	.538	0.65	.00	11
40	2.62	31.62	25.25	.543	0.50	.00	9
45	2.59						

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.56	31.22	24.65	330.5	.000
10	5.26	31.35	24.78	317.6	.032
20	3.25	31.53	25.12	285.2	.062
30	2.68	31.60	25.22	271.4	.090

## STATION 113

57-38 N 161-11 W 11 JUL 1939 1215 GCT  
 WEATHER O BAR 29.95 WIND W 2 SEA W 2  
 TEMPERATURE DRY 44 WET 42 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.20	31.51	24.80	.576	0.65	.00	5
5	6.17	31.51	24.80	.455	0.65	.00	4
10	5.40	31.55	24.92	.517	0.60	.00	4
15	3.13	31.67	25.24	.558	0.80	.00	3
20	2.27	31.76	25.38	.602	0.70	.00	4
30	2.24	31.76	25.39	.698	0.57	.00	4
40	2.20	31.76	25.39	.683	0.70	.00	4
50	2.23	31.76	25.39	.703	0.60	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	6.20	31.51	24.80	315.9	.000
10	5.40	31.55	24.92	304.0	.031
20	2.27	31.76	25.38	260.2	.059
30	2.24	31.76	25.39	260.0	.085
50	2.23	31.76	25.39	259.9	.137

## STATION 114

57-29 N 161-03 W 11 JUL 1939 1442 GCT  
 WEATHER O BAR 29.93 WIND W 2 SEA W 2  
 TEMPERATURE DRY 44 WET 42 DEPTH 62

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.15	31.53	24.69	.617	0.57	.00	10
5	7.11	31.53	24.70	.622	0.73	.00	4
10	6.78	31.53	24.74	.613	0.60	.00	3
15	4.77	31.73	25.13	.674	0.70	.00	4
20	3.01	31.85	25.40	.715	0.75	.00	6
30	2.62	31.87	25.44	.705	0.75	.00	9
40	2.67	31.82	25.40	.700	0.80	.00	10
50	2.61	31.83	25.41	.694	0.70	.00	18
55	2.59	31.85	25.43	.702	0.77	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	7.15	31.53	24.69	325.9	.000
10	6.78	31.53	24.74	321.4	.032
20	3.01	31.85	25.40	259.0	.061
30	2.62	31.87	25.44	254.4	.087
50	2.61	31.83	25.41	257.4	.138

## STATION 115

57-19 N 160-55 W 11 JUL 1939 1700 GCT  
 WEATHER 0 BAR 29.96 WIND WNW 1 SEA W 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.53	31.76	24.95	.566	0.65	.00	2
5	6.49	31.76	24.96	.566	0.55	.00	2
10	6.46	31.74	24.95	.606	0.55	.00	3
15	6.00	31.76	25.02	.648	0.55	.00	0
20	3.98	31.83	25.29	.526	0.70	.01	3
30	2.95	31.85	25.40	.565	0.80	.05	12
40	2.99	31.89	25.43	.514	0.85	.08	21
50	2.86	31.89	25.44	.602	1.00	.08	18
59	2.85	31.89	25.44	.537	0.95	.07	19

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.53	31.76	24.95	301.1	.000
10	6.46	31.74	24.95	301.8	.030
20	3.98	31.83	25.29	268.9	.059
30	2.95	31.85	25.40	258.5	.085
50	2.86	31.89	25.44	254.8	.136

## STATION 116

57-10 N 160-47 W 11 JUL 1939 1910 GCT  
 WEATHER 0 Z BAR 29.98 WIND NNW 1 SEA W 1  
 TEMPERATURE DRY 47 WET 46 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.29	31.74	24.97	.663	0.55	.00	8
5	6.18	31.74	24.98	.501	0.45	.00	8
10	5.62	31.83	25.12	.576	0.70	.00	9
15	3.23	31.89	25.41	.510	1.00	.09	11
20	3.07	31.87	25.41	.585	0.85	.09	12
30	3.08	31.87	25.41	.532	1.05	.09	10
40	3.14	31.89	25.42	.583	1.00	.08	7
50	3.03	31.87	25.41	.543	1.00	.09	11
60	3.03	31.91	25.44	.562	0.95	.07	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.29	31.74	24.97	299.7	.000
10	5.62	31.83	25.12	285.4	.029
20	3.07	31.87	25.41	258.0	.056
30	3.08	31.87	25.41	258.1	.082
50	3.03	31.87	25.41	257.7	.134

## STATION 117

57-01 N 160-40 W 11 JUL 1939 2129 GCT  
 WEATHER O F BAR 29.99 WIND N 1 SEA WNW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.95	31.80	24.79	.678	0.50	.00	12
5	6.17	31.78	25.01	.557	0.45	.00	5
10	5.33	31.83	25.15	.591	0.65	.00	10
15	4.38	31.85	25.27	.514	0.75	.06	9
20	3.15	31.91	25.43	.523	1.15	.11	14
30	3.10	31.91	25.44	.523	0.95	.10	9
40	3.09	31.89	25.42	.570	1.05	.12	11
50	3.09	31.91	25.44	.476	1.20	.13	15
60	3.07	31.91	25.44	.642			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.95	31.80	24.79	316.3	.000
10	5.33	31.83	25.15	282.2	.030
20	3.15	31.91	25.43	255.6	.057
30	3.10	31.91	25.44	255.2	.083
50	3.09	31.91	25.44	255.2	.134

## STATION 118

56-52 N 160-32 W 11 JUL 1939 2325 GCT  
 WEATHER O F BAR 29.97 WIND N 1 SEA WNW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.36	31.78	24.86	.529	0.40	.00	10
5	7.02	31.78	24.91	.567		.00	3
10	6.38	31.78	24.99	.632	0.40	.00	1
15	3.76	31.85	25.33	.549	1.20	.09	4
20	3.56	31.85	25.35	.561	1.15	.09	5
30	3.55	31.87	25.37	.584	1.15	.09	5
40	3.60	31.85	25.35	.570	0.90	.09	5
50	3.50	31.87	25.37	.563	1.15	.09	4
60	3.49	31.87	25.37	.535	1.20	.09	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.36	31.78	24.86	310.0	.000
10	6.38	31.78	24.99	297.9	.030
20	3.56	31.85	25.35	263.6	.058
30	3.55	31.87	25.37	262.0	.084
50	3.50	31.87	25.37	261.7	.136



## STATION 119

56-42 N 160-24 W 12 JUL 1939 0115 GCT  
 WEATHER O F BAR 30.00 WIND N 1 SEA WNW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.49	31.80	24.72	.511	0.50	.00	9
5	8.23	31.80	24.75	.512	0.45	.00	1
10	7.74	31.80	24.82	.581	0.40	.00	1
15	6.73	31.82	24.98	.649	0.55	.00	2
20	4.68	31.73	25.14	.695	1.05	.07	2
30	4.34	31.78	25.22	.622	0.90	.09	5
40	3.49	31.87	25.37	.619	1.15	.12	4
50		31.87		.623	0.95	.12	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.49	31.80	24.72	323.8	.000
10	7.74	31.80	24.82	313.6	.032
20	4.68	31.73	25.14	283.1	.062
30	4.34	31.78	25.22	275.9	.089
50		31.87			

## STATION 120

56-34 N 160-16 W 12 JUL 1939 0345 GCT  
 WEATHER O F BAR 30.02 WIND N 2 SEA WNW 1  
 TEMPERATURE DRY 45 WET 44 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.82	29.67	22.85	.612	0.53	.00	13
5	8.02	30.39	23.68	.648	0.47	.00	15
10	7.03	30.99	24.28	.673	0.55	.00	10
15	6.52	31.36	24.64	.679	0.50	.00	7
20	6.38	31.49	24.76	.667	0.55	.00	15
30	5.35	31.64	25.00	.678	0.83	.00	8
35	5.34	31.64	25.00	.678	0.60	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.82	29.67	22.85	501.6	.000
10	7.03	30.99	24.28	364.9	.043
20	6.38	31.49	24.76	319.7	.077
30	5.35	31.64	25.00	296.9	.108

## STATION 121

56-26 N 160-11 W 12 JUL 1939 0730 GCT  
 WEATHER O F PAR 30.04 WIND N 1 SEA WNW 1  
 TEMPERATURE DRY 46 WET 45 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.68	30.66	23.30	.693	0.53	.00	10
5	7.81	30.72	23.97	.698	0.53	.00	10
10	7.59	30.77	24.04	.693	0.57	.00	15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.68	30.66	23.80	411.3	.000
10	7.59	30.77	24.04	388.5	.040

## STATION 122

56-33 N 159-53 W 12 JUL 1939 0926 GCT  
 WEATHER O Z PAR 30.04 WIND CALM SEA WNW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.99	29.16	22.43	.598	0.70	.00	19
5	8.04	30.50	23.76	.616	0.65	.00	13
10	7.38	30.91	24.18	.684	0.63	.00	15
15	7.38	31.04	24.28	.675	0.47	.00	17
20	7.15	31.17	24.41	.682	0.57	.00	17

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.99	29.16	22.43	542.1	.000
10	7.38	30.91	24.18	375.3	.046
20	7.15	31.17	24.41	353.1	.082

## STATION 123

56-34 N 159-59 W 12 JUL 1939 1038 GCT  
 WEATHER 0 Z BAR 30.03 WIND CALM SEA 0 0  
 TEMPERATURE DRY 46 WET 46 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.27	31.73	24.69	.613	0.45	.00	7
5	8.16	31.74	24.72	.640	0.43	.00	5
10	7.72	31.74	24.78	.613	0.57	.00	8
15	7.57	31.76	24.82	.612	0.55	.00	4
20	6.71	31.67	24.86	.593	0.47	.00	9
30	5.44	31.67	25.01	.663	0.85	.04	10
40	5.36	31.71	25.09	.661	0.75	.04	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.27	31.73	24.69	325.9	.000
10	7.72	31.74	24.78	317.8	.032
20	6.71	31.67	24.86	310.2	.063
30	5.44	31.67	25.01	295.6	.093

## STATION 124

56-47 N 160-06 W 12 JUL 1939 1240 GCT  
 WEATHER 0 Z BAR 30.02 WIND NE 1 SEA NW 1  
 TEMPERATURE DRY 45 WET 44 DEPTH 59

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.68	31.64	24.71	.639	0.47	.00	7
5	6.83	31.67	24.84	.696	0.45	.00	7
10	6.03	31.71	24.98	.694	0.55	.00	9
15	4.72	31.74	25.15	.678	0.87	.06	7
20	4.32	31.76	25.20	.663	0.80	.08	9
30	4.17	31.78	25.24	.662	0.57	.08	10
40		31.82		.661	1.20	.09	7
50	3.98	31.82	25.29	.662	0.53	.09	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.68	31.64	24.71	324.6	.000
10	6.03	31.71	24.98	299.0	.031
20	4.32	31.76	25.20	277.3	.060
30	4.17	31.78	25.24	274.5	.088
50	3.98	31.82	25.29	269.8	.142

## STATION 125

56-58 N 160-15 W 12 JUL 1939 1435 GCT  
 WEATHER O D Z BAR 30.01 WIND ENE 1 SEA NW 1  
 TEMPERATURE DRY 45 WET 45 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.13	31.76	24.88	.692	0.43	.00	4
5	6.96	31.78	24.91	.676	0.53	.00	4
10	5.87	31.82	25.08	.725	0.45	.00	3
15	3.73	31.85	25.33	.697	0.55	.09	5
20	3.26	31.87	25.39	.670	1.10	.10	6
30	3.25	31.87	25.39	.675	1.05	.11	10
40		31.87		.665	1.05	.11	9
50	3.25	31.87	25.39	.665	1.20	.12	10
60	3.24	31.87	25.39	.665	1.25	.10	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	7.13	31.76	24.88	308.5	.000
10	5.87	31.82	25.08	289.0	.030
20	3.26	31.87	25.39	259.5	.057
30	3.25	31.87	25.39	259.5	.083
50	3.25	31.87	25.39	259.5	.135

## STATION 126

57-06 N 160-22 W 12 JUL 1939 1638 GCT  
 WEATHER C BAR 30.01 WIND ENE 1 SEA NW 1  
 TEMPERATURE DRY 46 WET 45 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.79	31.80	24.95	.667	0.47	.00	7
5	6.01	31.82	25.07	.679	0.40	.00	4
10	4.22	31.87	25.30	.702	0.57	.00	8
15	3.21	31.91	25.43	.690	1.15	.09	9
20	3.30	31.91	25.42	.697	0.85	.08	8
30	3.20	31.91	25.43	.685	1.10	.08	8
40	3.19	31.91	25.43	.598	0.95	.08	9
50	3.18	31.91	25.43	.684	1.00	.08	10
59	3.18	31.91	25.43	.668	1.10	.08	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	6.79	31.80	24.95	301.3	.000
10	4.22	31.87	25.30	268.0	.028
20	3.30	31.91	25.42	256.8	.054
30	3.20	31.91	25.43	256.0	.080
50	3.18	31.91	25.43	255.9	.131

## STATION 127

57-15 N 160-30 W 12 JUL 1939 1832 GCT  
 WEATHER C BAR 30.00 WIND CALM SEA NW 1  
 TEMPERATURE DRY 47 WET 45 DEPTH 65

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.72	31.78	24.95	.605	0.90	.00	10
5	6.61	31.74	24.93	.644	0.80	.00	10
10	6.01	31.74	25.00	.679	0.80	.00	11
15	3.77	31.85	25.33	.712	0.73	.03	10
20	3.09	31.87	25.41	.662	1.10	.02	12
30	3.10	31.87	25.41	.569	0.93	.02	15
40	3.07	31.87	25.41	.685	1.10	.03	13
50	3.09	31.87	25.41	.681	1.05	.05	16
60	3.07	31.87	25.41	.666	0.97	.04	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.72	31.78	24.95	301.9	.000
10	6.01	31.74	25.00	296.6	.030
20	3.09	31.87	25.41	258.1	.058
30	3.10	31.87	25.41	258.2	.084
50	3.09	31.87	25.41	258.2	.136

## STATION 128

57-24 N 160-37 W 12 JUL 1939 2035 GCT  
 WEATHER O BAR 30.01 WIND SSE 1 SEA O O  
 TEMPERATURE DRY 47 WET 46 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.34	31.55	24.81	.569	0.53	.00	13
5	6.15	31.55	24.84	.507	0.67	.00	13
10	5.85	31.64	24.94	.521	0.57	.00	12
15	5.23	31.71	25.07	.576	0.60	.00	11
20	2.96	31.78	25.35	.600	1.00	.00	20
30	3.07	31.78	25.34	.637	1.40	.00	15
40	3.01	31.78	25.34	.532	1.35	.00	15
50	3.00	31.80	25.36	.587	1.20	.00	19
55	3.00	31.80	25.36	.620	0.77	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.34	31.55	24.81	314.5	.000
10	5.85	31.64	24.94	302.2	.031
20	2.96	31.78	25.35	263.9	.059
30	3.07	31.78	25.34	264.8	.085
50	3.00	31.80	25.36	262.8	.138

## STATION 129

57-32 N 160-46 W 12 JUL 1939 2225 GCT  
 WEATHER O BAR 30.00 WIND SSE 1 SEA O O  
 TEMPERATURE DRY 47 WET 46 DEPTH 59

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.35	31.42	24.58	.572	0.87	.00	1
5	7.32	31.42	24.58	.564	0.60	.00	1
10	6.67	31.42	24.67	.570	1.05	.00	1
15	4.00	31.62	25.13	.584	0.75	.00	5
20	2.78	31.69	25.29	.595	0.83	.00	5
30	2.63	31.80	25.39	.597	0.80	.00	9
40	2.51	31.80	25.40	.638	1.10	.00	7
50	2.50	31.76	25.37	.640	0.97	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.35	31.42	24.58	336.7	.000
10	6.67	31.42	24.67	328.3	.033
20	2.78	31.69	25.29	269.3	.063
30	2.63	31.80	25.39	259.8	.089
50	2.50	31.76	25.37	261.9	.141

## STATION 130

57-42 N 160-55 W 13 JUL 1939 0027 GCT  
 WEATHER O F M BAR 29.99 WIND S 2 SEA SW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.07	30.97	24.26	.612	0.57	.00	5
5	5.56	31.31	24.72	.617	0.55	.00	5
10	4.48	31.51	24.99	.664	0.70	.00	5
15	2.45	31.65	25.28	.636	0.85	.00	5
20	2.36	31.65	25.29	.682	0.60	.00	6
30	2.35	31.65	25.29		0.67	.00	4
40	2.32	31.67	25.31		0.83	.00	5
45	2.30	31.65	25.29	.680	1.20	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.07	30.97	24.26	366.8	.000
10	4.48	31.51	24.99	297.6	.033
20	2.36	31.65	25.29	269.2	.061
30	2.35	31.65	25.29	269.1	.088

## STATION 131

57-51 N 161-03 W 13 JUL 1939 0224 GCT  
 WEATHER O Z BAR 29.97 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.36	30.61	23.94	.501	0.70	.00	2
5	7.27	30.61	23.96	.507	1.05	.00	3
10	4.21	31.18	24.76	.518	0.50	.00	6
15	4.10	31.20	24.78	.522	0.67	.00	7
20	4.04	31.24	24.82	.530	0.47	.00	7
30	3.87	31.31	24.89	.537	0.57	.00	8
40	3.26	31.35	24.98	.538	0.77	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.36	30.61	23.94	397.4	.000
10	4.21	31.18	24.76	320.0	.036
20	4.04	31.24	24.82	313.9	.068
30	3.87	31.31	24.89	307.1	.099

## STATION 132

57-59 N 161-10 W 13 JUL 1939 0410 GCT  
 WEATHER O F BAR 29.98 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.86	30.12	23.35	.584	0.73	.00	4
5	8.27	30.10	23.42	.586	1.00	.00	4
10	5.37	31.00	24.49	.630	0.50	.00	5
15	5.04	31.06	24.58	.619	0.57	.00	5
20	4.92	31.08	24.60	.620	0.50	.00	6
30	4.82	31.09	24.62	.605	0.55	.00	6
40	4.77	31.11	24.64	.594	0.80	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.86	30.12	23.35	454.1	.000
10	5.37	31.00	24.49	345.0	.040
20	4.92	31.08	24.60	334.4	.074
30	4.82	31.09	24.62	332.7	.107

## STATION 133

58-08 N 161-18 W 13 JUL 1939 0605 GCT  
 WEATHER O F BAR 29.98 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.59	29.65	22.87	.518	0.60	.00	16
5	9.54	29.69	22.91	.518	0.55	.00	16
10	5.98	30.95	24.38	.513	0.57	.00	17
15	5.95	30.95	24.39	.509	0.53	.00	17
20	5.79	30.95	24.41	.513	0.55	.00	16
30	5.85	30.95	24.40	.574	0.60	.00	18
35	5.82	30.95	24.40	.507	0.53	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.59	29.65	22.87	499.6	.000
10	5.98	30.95	24.38	355.5	.043
20	5.79	30.95	24.41	353.4	.078
30	5.85	30.95	24.40	354.2	.113

## STATION 134

58-17 N 161-27 W 13 JUL 1939 0813 GCT  
 WEATHER O F BAR 29.98 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.18	30.35	23.63	.605	0.60	.00	16
5	8.07	30.37	23.66	.604	0.63	.00	17
10	7.00	30.57	23.96	.567	0.80	.00	16
15	6.38	30.86	24.26	.570	0.65	.00	10
20	6.32	30.86	24.27	.574	0.83	.00	10
30	6.33	30.86	24.27	.593	0.57	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.18	30.35	23.63	427.5	.000
10	7.00	30.57	23.96	396.0	.041
20	6.32	30.86	24.27	366.2	.079
30	6.33	30.86	24.27	366.4	.116



## STATION 135

58-26 N 161-35 W 13 JUL 1939 1008 GCT  
 WEATHER O F BAR 29.98 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 44 WET 44 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.42	30.19	23.47	.549	0.60	.00	17
5	8.29	30.21	23.50	.515	0.65	.00	18
10	7.77	30.34	23.68	.547	0.70	.00	8
15	7.59	30.43	23.77	.512	0.67	.00	16
20	7.44	30.44	23.80	.507	0.57	.00	17
25	7.41	30.48	23.83	.535	0.67	.00	17

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.42	30.19	23.47	442.7	.000
10	7.77	30.34	23.68	422.9	.043
20	7.44	30.44	23.80	411.3	.085

## STATION 136

58-37 N 161-41 W 13 JUL 1939 1938 GCT  
 WEATHER O F BAR 29.99 WIND SE 3 SEA SE 2  
 TEMPERATURE DRY 47 WET 43 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.58	29.76	22.96	.562	0.63	.00	5
5	9.55	29.76	22.96	.544	0.53	.00	5
10		30.05		.457	0.67	.00	7
15	8.80	30.10	23.34	.484	0.65	.00	5
18	8.74	30.08	23.34	.495	0.63	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.58	29.76	22.96	491.3	.000
10	9.07	30.05	23.26	462.4	.048

## STATION 137

NO POSITION 13 JUL 1939 2250 GCT  
 WEATHER O F BAR 29.99 WIND SE 4 SEA SE 3  
 TEMPERATURE DRY 48 WET 47 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.55	28.42	21.76	.519	0.80	.00	10
5	10.39	28.51	21.86	.541	0.90	.00	12
8	10.39	28.53	21.88	.540	0.75	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.55	28.42	21.76	605.7	.000

## STATION 138

58-17 N 160-48 W 14 JUL 1939 0039 GCT  
 WEATHER O F BAR 29.98 WIND SSW 4 SEA SSW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.68	29.76	23.09	.574	0.70	.00	6
5	8.60	29.78	23.12	.581	0.65	.00	3
10	8.07	29.99	23.36	.582	0.63	.00	5
15	6.62	30.53	23.98	.574	0.60	.00	5
20	6.42	30.61	24.06	.606	0.80	.00	4
25	6.41	30.61	24.06	.598	0.90	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.68	29.76	23.09	478.4	.000
10	8.07	29.99	23.36	453.0	.047
20	6.42	30.61	24.06	386.1	.089

## STATION 139

58-08 N 160-39 W 14 JUL 1939 0230 GCT  
 WEATHER O F BAR 29.99 WIND SSW 4 SEA SSW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.88	29.31	22.56	.559	0.70	.00	2
5	9.86	29.33	22.58	.567	0.65	.00	4
10	5.76	30.48	24.04	.621	0.67	.00	1
15	4.96	30.93	24.48	.593	0.87	.00	4
20	4.77	31.00	24.56	.594	0.55	.00	5
30	4.65	31.02	24.59	.573	0.73	.00	5
40	4.53	31.02	24.60	.608	0.75	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.88	29.31	22.56	529.3	.000
10	5.76	30.48	24.04	388.3	.046
20	4.77	31.00	24.56	339.0	.082
30	4.65	31.02	24.59	336.3	.116

## STATION 140

57-59 N 160-31 W 14 JUL 1939 0430 GCT  
 WEATHER O BAR 30.00 WIND SW 4 SEA SW 2  
 TEMPERATURE DRY 48 WET 47 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.53	30.41	23.76	.565	0.50	.00	2
5	7.44	30.44	23.80	.608	0.45	.00	2
10	6.78	30.70	24.09	.652	0.53	.00	3
15	3.70	31.27	24.88	.588	0.77	.00	2
20	3.69	31.29	24.89	.509	0.40	.00	1
30	3.55	31.31	24.91	.525	0.63	.00	2
40	3.61	31.33	24.93	.518	0.43	.00	4
45	3.63	31.33	24.93	.625	0.73	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.53	30.41	23.76	414.5	.000
10	6.78	30.70	24.09	383.5	.040
20	3.69	31.29	24.89	307.0	.075
30	3.65	31.31	24.91	305.2	.106

## STATION 141

57-50 N 160-21 W 14 JUL 1939 0625 GCT  
 WEATHER 0 BAR 30.02 WIND WSW 4 SEA SW 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.37	30.86	24.14	.630	0.37	.00	8
5	7.29	30.86	24.15	.593	0.55	.00	8
10	7.21	30.88	24.17	.603	0.15	.00	6
15	5.11	31.42	24.85	.677	0.57	.00	8
20	3.38	31.53	25.11	.682	0.55	.00	9
30	3.28	31.55	25.14	.678	0.53	.00	9
40	3.20	31.55	25.14	.671	0.43	.00	9
50	3.20	31.55	25.14	.665	0.57	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.37	30.86	24.14	378.8	.000
10	7.21	30.88	24.17	375.4	.038
20	3.38	31.53	25.11	286.2	.071
30	3.28	31.55	25.14	283.9	.100
50	3.20	31.55	25.14	283.3	.157

## STATION 142

57-40 N 160-15 W 14 JUL 1939 0826 GCT  
 WEATHER 0 BAR 30.02 WIND W 4 SEA SW 2  
 TEMPERATURE DRY 45 WET 45 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.59	31.26	24.55	.605	0.50	.00	8
5	6.54	31.27	24.57	.612	0.55	.00	4
10	4.16	31.44	24.97	.633	0.60	.00	5
15	3.30	31.51	25.10	.702	0.23	.00	9
20	3.30	31.51	25.10	.638	0.63	.00	8
30	3.31	31.51	25.10	.653	0.68	.00	7
40	3.29	31.51	25.10	.687	0.55	.00	7
48	3.28	31.51	25.10	.602	0.50	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.59	31.26	24.55	339.2	.000
10	4.16	31.44	24.97	299.9	.032
20	3.30	31.51	25.10	287.1	.061
30	3.31	31.51	25.10	287.2	.090

## STATION 143

57-31 N 160-07 W 14 JUL 1939 1022 GCT  
 WEATHER C BAR 30.02 WIND W 4 SEA SW 2  
 TEMPERATURE DRY 45 WET 45 DEPTH 54

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.43	31.11	24.33	.637	0.55	.00	6
5	7.35	31.11	24.34	.598	0.53	.00	6
10	6.58	31.42	24.68	.633	0.53	.00	7
15	4.69	31.58	25.07	.713	0.47	.00	5
20	3.94	31.60	25.11	.594	0.65	.00	6
30	3.91	31.60	25.12	.652	0.63	.00	8
40	3.86	31.60	25.12	.629	0.55	.00	7
49	3.85	31.62	25.14	.716	0.57	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.43	31.11	24.33	360.9	.000
10	6.58	31.42	24.68	327.2	.034
20	3.94	31.60	25.11	285.8	.065
30	3.91	31.60	25.12	285.6	.094

## STATION 144

57-22 N 159-58 W 14 JUL 1939 1240 GCT  
 WEATHER O Z BAR 30.01 WIND SW 3 SEA SW 3  
 TEMPERATURE DRY 46 WET 46 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.62	31.55	24.78	.578	0.55	.00	9
5	6.54	31.55	24.79	.635	0.53	.00	10
10	5.08	31.62	25.01	.703	0.53	.00	4
15	4.40	31.69	25.14	.675	0.55	.00	11
20	4.08	31.71	25.19	.780	0.57	.00	10
30	4.01	31.71	25.20	.713	0.63	.00	10
40	3.98	31.69	25.18	.693	0.50	.00	9
50	3.97	31.71	25.20	.736	0.60	.00	15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.62	31.55	24.78	317.9	.000
10	5.08	31.62	25.01	295.4	.031
20	4.08	31.71	25.19	278.8	.060
30	4.01	31.71	25.20	278.2	.088
50	3.97	31.71	25.20	278.0	.144

## STATION 145

57-19 N 159-50 W 14 JUL 1939 1425 GCT  
 WEATHER 0 Z BAR 30.01 WIND SW 3 SEA SW 3  
 TEMPERATURE DRY 46 WET 46 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.61	31.64	24.85	.682	0.55	.00	8
5	6.56	31.64	24.85	.682	0.53	.00	10
10	6.57			.633	0.47	.00	10
15	5.79	31.65	24.96	.635	0.60	.00	10
20	4.74	31.67	25.09	.672	0.45	.00	9
30	4.52	31.69	25.13	.672	0.63	.00	10
40	4.45	31.69	25.14	.664	0.55	.00	11
50	4.43	31.69	25.14		0.57	.00	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.61	31.64	24.85	311.0	.000
10	6.57	31.64	24.86	310.0	.031
20	4.74	31.67	25.09	288.2	.060
30	4.52	31.69	25.13	284.6	.089
50	4.43	31.69	25.14	283.9	.146

## STATION 146

57-06 N 159-42 W 14 JUL 1939 1625 GCT  
 WEATHER 0 Z BAR 30.01 WIND WSW 3 SEA SW 3  
 TEMPERATURE DRY 47 WET 47 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.45	31.42	24.57	.667	0.37	.00	10
5	7.41	31.44	24.59	.590	0.55	.00	10
10	7.38	31.46	24.61	.597	0.55	.00	8
15	5.29	31.67	25.03	.715	0.57	.00	7
20	4.74	31.69	25.11	.685	0.63	.00	8
30	4.74	31.71	25.12	.704	0.75	.00	10
40	4.66	31.71	25.13	.679	0.77	.00	10
50	4.64	31.71	25.13	.692	0.77	.00	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.45	31.42	24.57	338.0	.000
10	7.38	31.46	24.61	334.2	.034
20	4.74	31.69	25.11	286.7	.065
30	4.74	31.71	25.12	285.3	.094
50	4.64	31.71	25.13	284.4	.151

## STATION 147

56-56 N 159-30 W 14 JUL 1939 1822 GCT  
 WEATHER O Z BAR 30.01 WIND SW 3 SEA SW 3  
 TEMPERATURE DRY 47 WET 47 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.87	31.00	24.18	.625	0.47	.00	10
5	7.87	31.00	24.24	.679	0.37	.00	9
10	5.77	31.44	24.75	.678	0.67	.00	10
15	5.51	31.47	24.85	.657	0.63	.00	11
20	5.42	31.47	24.86	.652	0.60	.00	14
30	5.44	31.47	24.86	.663	0.57	.00	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.87	31.00	24.18	374.9	.000
10	5.77	31.44	24.79	316.3	.035
20	5.42	31.47	24.86	310.3	.066
30	5.44	31.47	24.86	310.6	.097

## STATION 148

56-44 N 159-22 W 14 JUL 1939 2012 GCT  
 WEATHER C Z BAR 30.00 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 48 WET 47 DEPTH 26

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.74	30.35	23.39	.619	0.43	.00	10
5	8.53	30.37	23.59	.622	0.45	.00	10
10	8.43	30.44	23.66	.629	0.50	.00	10
15	8.01	30.59	23.84	.622	0.37	.00	10
20	7.93	30.72	23.95	.640	0.47	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.74	30.35	23.39	449.9	.000
10	8.43	30.44	23.66	424.3	.044
20	7.93	30.72	23.95	396.8	.085

## STATION 149

56-46 N 159-06 W 14 JUL 1939 2215 GCT  
 WEATHER 0 BAR 30.04 WIND WSW 2 SEA SW 2  
 TEMPERATURE DRY 49 WET 47 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.55	30.37	23.44	.632	0.63	.00	16
5	9.06	30.39	23.53	.635	0.45	.00	15
10	8.87	30.46	23.61	.642	0.30	.00	14
13	8.78	30.46	23.63	.658	0.53	.00	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.55	30.37	23.44	445.5	.000
10	8.87	30.46	23.61	429.0	.044

## STATION 150

56-52 N 159-11 W 14 JUL 1939 2328 GCT  
 WEATHER C BAR 30.00 WIND WSW 2 SEA SW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.43	30.68	23.85	.678	0.53	.00	13
5	8.43	30.70	23.86	.662	0.55	.00	13
10	8.15	30.81	23.99	.682	0.50	.00	12
15	8.01	30.84	24.03	.705	0.33	.00	12
20	7.99	30.88	24.07	.702	0.43	.00	12
25	8.01	30.88	24.07	.697	0.45	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.43	30.68	23.85	406.3	.000
10	8.15	30.81	23.99	392.9	.040
20	7.99	30.88	24.07	385.7	.079



## STATION 151

57-00 N 159-18 W 15 JUL 1939 0130 GCT  
 WEATHER C BAR 30.02 WIND WSW 2 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.17	31.00	24.14	.652	0.43	.00	10
5	7.91	31.04	24.20	.631	0.35	.00	10
10	7.64	31.02	24.23	.676	0.35	.00	10
15	7.35	31.08	24.31	.647	0.33	.00	10
20	6.75	31.13	24.43	.684	0.55	.00	10
30	6.51	31.27	24.57	.672	0.47	.00	11
40	6.41	31.27	24.58	.684	0.47	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.17	31.00	24.14	378.9	.000
10	7.64	31.02	24.23	370.5	.037
20	6.75	31.13	24.43	351.1	.073
30	6.51	31.27	24.57	337.8	.107

## STATION 152

57-08 N 159-25 W 15 JUL 1939 0335 GCT  
 WEATHER C BAR 30.00 WIND WSW-1 SEA WSW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 54

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.87	31.44	24.66	.632	0.53	.00	8
5	6.30	31.55	24.82	.702	0.57	.00	9
10	6.02	31.46	24.78	.693	0.65	.00	6
15	5.59	31.49	24.85	.689	0.35	.00	10
20	5.41	31.51	24.89	.688	0.45	.00	7
30	5.30	31.51	24.90	.697	0.53	.00	9
40	5.24	31.51	24.91	.693	0.57	.00	9
50	5.24	31.51	24.91	.695	0.40	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.87	31.44	24.66	329.2	.000
10	6.02	31.46	24.78	317.7	.032
20	5.41	31.51	24.89	307.2	.063
30	5.30	31.51	24.90	306.1	.094
50	5.24	31.51	24.91	305.7	.155

## STATION 153

57-18 N 159-35 W 15 JUL 1939 0520 GCT  
 WEATHER C BAR 29.97 WIND WSW 1 SEA WSW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.35	30.53	23.88	.626	0.57	.00	10
5	6.38	31.35	24.65	.678	0.50	.00	12
10	5.91	31.42	24.76	.658	0.53	.00	10
15	5.16	31.47	24.89	.744	0.57	.00	11
20	4.77	31.51	24.96	.713	0.57	.00	11
30	4.66	31.53	24.99	.716	0.57	.00	14
40	4.61	31.51	24.98	.720	0.57	.00	13
50	4.61	31.51	24.98	.694	0.53	.00	15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.35	30.53	23.88	403.2	.000
10	5.91	31.42	24.76	319.4	.036
20	4.77	31.51	24.96	300.6	.067
30	4.66	31.53	24.99	298.0	.097
50	4.61	31.51	24.98	299.2	.157

## STATION 154

57-26 N 159-42 W 15 JUL 1939 0648 GCT  
 WEATHER O BAR 29.97 WIND CALM SEA WSW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.66	31.42	24.54	.556	0.53	.00	10
5	7.81	31.51	24.59	.533	0.55	.00	11
10	5.11	31.56	24.96	.616	0.55	.00	9
15	3.92	31.42	24.97	.608	0.60	.00	11
20	3.87	31.44	24.99	.587	0.53	.00	12
30	3.88	31.46	25.01	.546	0.55	.00	10
40	3.85	31.47	25.02	.591	0.53	.00	10
50	3.84	31.47	25.02	.621	0.55	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.66	31.42	24.54	340.7	.000
10	5.11	31.56	24.96	300.2	.032
20	3.87	31.44	24.99	297.3	.062
30	3.88	31.46	25.01	295.9	.092
50	3.84	31.47	25.02	294.9	.151

## STATION 155

57-36 N 159-50 W 15 JUL 1939 0906 GCT  
 WEATHER O RAP 29.97 WIND SW 1 SEA WSW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.54	31.08	24.29	.620	0.55	.00	9
5	7.41	31.08	24.31	.646	0.55	.00	9
10	7.06	31.08	24.35	.644	0.57	.00	8
15	4.10	31.31	24.87	.709	0.55	.00	10
20	3.05	31.40	25.04	.716	0.55	.00	9
30	3.55	31.40	24.99	.649	0.55	.00	11
40	3.52	31.40	24.99	.726	0.57	.00	11
45	3.50	31.40	25.00	.722	0.57	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	Δσ
0	7.54	31.08	24.29	364.6	.000
10	7.06	31.08	24.35	358.6	.036
20	3.05	31.40	25.04	293.4	.069
30	3.55	31.40	24.99	297.5	.099

## STATION 156

57-44 N 159-59 W 15 JUL 1939 1051 GCT  
 WEATHER O D RAP 29.97 WIND SW 1 SEA WSW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.55	31.17	24.49	.657	0.45	.00	7
5	6.43	31.22	24.54	.654	0.53	.00	6
10	3.96	31.29	24.87	.695	0.60	.00	9
15	3.71	31.35	24.94	.589	0.53	.00	9
20	3.68	31.36	24.95	.585	0.60	.00	10
30	3.70	31.38	24.96	.589	0.55	.00	10
40		31.40		.670	0.55	.00	11
45	3.70	31.40	24.98	.669	0.63	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	Δσ
0	6.55	31.17	24.49	345.5	.000
10	3.96	31.29	24.87	309.4	.033
20	3.68	31.36	24.95	301.6	.064
30	3.70	31.38	24.96	300.3	.094

## STATION 157

57-54 N 160-06 W 15 JUL 1939 1230 GCT  
 WEATHER C BAR 29.96 WIND WSW 2 SEA W 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.60	30.07	23.49	.611	0.35		10
5	7.56	30.25	23.63	.606	0.35		12
10	3.98	31.31	24.88	.647	0.35		11
15	3.82	31.36	24.94	.661	0.37		14
20	3.74	31.36	24.94	.634	0.35		13
30	3.73	31.40	24.98	.626	0.33		12
40		31.42		.619	0.40		11
45	3.68	31.42	25.00	.668	0.50		15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.60	30.07	23.49	440.8	.000
10	3.98	31.31	24.88	308.0	.037
20	3.74	31.36	24.94	302.2	.068
30	3.73	31.40	24.98	299.1	.098

## STATION 158

58-03 N 160-14 W 15 JUL 1939 1420 GCT  
 WEATHER C BAR 29.94 WIND W 4 SEA W 2  
 TEMPERATURE DRY 46 WET 46 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.55	29.87	23.34	.614	0.33		11
5	7.54	29.87	23.34	.613	0.35		10
10	6.88	30.03	23.55	.624	0.33		11
15	4.54	30.91	24.51	.637	0.30		14
20	4.07	31.17	24.76	.642	0.60		11
30	4.06	31.18	24.77	.650	0.55		11
35	4.01	31.18	24.78	.647	0.35		15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.55	29.87	23.34	455.1	.000
10	6.88	30.03	23.55	434.9	.044
20	4.07	31.17	24.76	319.5	.082
30	4.06	31.18	24.77	318.7	.114

## STATION 159

58-15 N 160-26 W 15 JUL 1939 1600 GCT  
 WEATHER BC BAR 29.95 WIND NW 5 SEA W 2  
 TEMPERATURE DRY 48 WET 47 DEPTH 27

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.79	29.70	23.17	.593	0.33		8
5	7.74	29.76	23.23	.523	0.33		9
10	6.49	30.26	23.78	.537	0.35		10
15	5.96	30.46	24.00	.612	0.37		11
20	5.96	30.46	24.00	.611	0.37		11
24	5.95	30.46	24.00	.607	0.43		10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.79	29.70	23.17	470.9	.000
10	6.49	30.26	23.78	413.1	.044
20	5.96	30.46	24.00	392.1	.084

## STATION 160

58-21 N 160-30 W 15 JUL 1939 1748 GCT  
 WEATHER BC BAR 29.95 WIND NW 5 SEA NW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.93	28.82	22.17	.578	0.35	.00	12
5	9.92	28.84	22.19	.585	0.35	.00	10
10	9.81	28.96	22.30	.572	0.33	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.93	28.82	22.17	566.4	.000
10	9.81	28.96	22.30	554.4	.056

## STATION 161

56-27 N 160-10 W 22 JUL 1939 1930 GCT  
 WEATHER 0 PAR 29.80 WIND CALM SEA W 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.20	30.62	23.69	.601		.00	14
5	8.98	30.77	23.84	.509		.00	13
10	8.93	30.82	23.88	.612		.00	12
15	8.87	30.82	23.80	.588		.00	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.20	30.62	23.60	421.8	.000
10	8.93	30.82	23.88	403.1	.041

## STATION 162

56-35 N 160-18 W 22 JUL 1939 2235 GCT  
 WEATHER 0 PAR 29.79 WIND SEA W 2  
 TEMPERATURE DRY 53 WET 52 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.85	31.38	24.33	.638		.00	13
5	8.54	31.40	24.40	.644		.00	11
10	8.34	31.40	24.42	.646		.00	11
15	7.83	31.46	24.54	.648		.04	12
20	6.14	31.60	24.88	.657		.08	12
30	5.71	31.67	24.98	.646		.07	14
40	5.44	31.74	25.07	.646		.07	14
45	3.41	31.73	25.27	.614		.06	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.85	31.38	24.33	350.2	.000
10	8.34	31.40	24.42	351.6	.036
20	6.14	31.60	24.88	308.7	.069
30	5.71	31.67	24.98	298.6	.099

## STATION 163

56-43 N 160-23 W 23 JUL 1939 0203 GCT  
 WEATHER C BAR 29.77 WIND SW 3 SEA W 2  
 TEMPERATURE DRY 50 WET 50 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.82	31.51	24.59	.646		.00	9
5	7.72	31.51	24.60	.617		.00	8
10	7.73	31.51	24.60	.553		.00	7
15	6.41	31.58	24.83	.657		.00	7
20	5.24	31.74	25.09	.552		.00	9
30	5.18	31.78	25.13	.646		.00	10
40	5.13	31.78	25.14	.647		.04	10
50	5.13	31.80	25.15	.645		.06	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	7.82	31.51	24.59	336.2	.000
10	7.73	31.51	24.60	335.1	.034
20	5.24	31.74	25.09	289.1	.065
30	5.18	31.78	25.13	284.6	.094
50	5.13	31.80	25.15	282.7	.151

## STATION 164

56-52 N 160-34 W 23 JUL 1939 0428 GCT  
 WEATHER C BAR 29.76 WIND SW 2 SEA W 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 69

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.67	31.69	24.60	.622		.00	0
5	8.62	31.73	24.64	.637		.00	4
10	8.55	31.73	24.65	.638		.00	3
15	6.39	31.76	24.97	.636		.00	4
20	3.97	31.85	25.31	.664		.12	9
30	3.65	31.89	25.37	.657		.14	10
40	3.58	31.91	25.39	.660		.14	11
50		31.91		.663		.14	10
60	3.55	31.91	25.40	.667		.12	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.67	31.69	24.60	334.5	.000
10	8.55	31.73	24.65	330.0	.033
20	3.97	31.85	25.31	267.3	.063
30	3.65	31.89	25.37	261.4	.089
50	3.55	31.91	25.40	259.1	.141

## STATION 165

57-01 N 160-39 W 23 JUL 1939 0630 GCT  
 WEATHER 0 BAR 29.75 WIND SW 2 SEA SW 2  
 TEMPERATURE DRY 49 WET 49 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.13	31.80	24.91	.655		.00	11
5	7.00	31.82	24.94	.673		.00	10
10	5.55	31.87	25.16	.672		.00	10
15	3.80	31.92	25.38	.666		.08	12
20	3.67	31.92	25.39	.650		.08	11
30	3.55	31.92	25.41	.645		.08	11
40	3.50	31.92	25.41	.664		.09	12
50	3.48	31.92	25.41	.642		.09	12
58	3.47	31.94	25.43	.660		.09	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.13	31.80	24.91	305.5	.000
10	5.55	31.87	25.16	281.6	.029
20	3.67	31.92	25.39	259.3	.056
30	3.55	31.92	25.41	258.3	.082
50	3.48	31.92	25.41	257.7	.124

## STATION 166

57-10 N 160-48 W 23 JUL 1939 0840 GCT  
 WEATHER 0 BAR 29.76 WIND SW 4 SEA WSW 2  
 TEMPERATURE DRY 49 WET 49 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.85	31.85	24.98	.661		.00	9
5	6.79	31.85	24.99	.629		.00	9
10	6.76	31.85	25.00	.655		.00	9
15	5.66	31.85	25.12	.666		.00	27
20	5.61	31.92	25.19	.634		.07	10
30	3.36	31.94	25.44	.664		.07	10
40	3.32	31.94	25.44	.645		.08	11
50	3.30	31.96	25.46	.666		.08	11
60	3.33	31.96	25.46	.645		.09	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.85	31.85	24.98	298.3	.000
10	6.76	31.85	25.00	297.3	.020
20	5.61	31.92	25.19	278.6	.059
30	3.36	31.94	25.44	255.1	.086
50	3.30	31.96	25.46	253.2	.127



## STATION 167

57-18 N 160-55 W 23 JUL 1939 1100 GCT  
 WEATHER 0 BAR 29.74 WIND ESE 2 SEA WSW 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 65

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.79	31.82	24.97	.632		.00	11
5	6.75	31.80	24.96	.643		.00	10
10	6.76	31.80	24.96	.656		.00	10
15	5.92	31.80	25.06	.648		.00	11
20	5.36	31.80	25.13	.657		.02	12
30	3.39	31.87	25.38	.656		.04	14
40	3.34	31.89	25.40	.667		.04	11
50	3.32	31.89	25.40	.664		.06	13
60	3.31	31.89	25.40	.658		.06	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.79	31.82	24.97	299.8	.000
10	6.76	31.80	24.96	301.0	.030
20	5.36	31.80	25.13	284.9	.059
30	3.39	31.87	25.38	260.7	.086
50	3.32	31.89	25.40	258.6	.138

## STATION 168

57-28 N 161-03 W 23 JUL 1939 1319 GCT  
 WEATHER 0 R BAR 29.71 WIND SE 2 SEA SW 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.72	31.67	24.86	.486		.00	10
5	6.66	31.71	24.90	.508		.00	9
10	6.58	31.71	24.91	.632		.00	8
15	5.97	31.73	25.00	.648		.00	9
20	5.05	31.74	25.11	.648		.00	9
30	3.07	31.82	25.37	.664		.01	11
40	3.06	31.82	25.37	.678		.01	11
50	3.04	31.83	25.38	.677		.01	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.72	31.67	24.86	310.1	.000
10	6.58	31.71	24.91	305.5	.031
20	5.05	31.74	25.11	286.1	.061
30	3.07	31.82	25.37	261.8	.088
50	3.04	31.83	25.38	260.8	.140

## STATION 169

57-37 N 161-12 W 23 JUL 1939 1532 GCT  
 WEATHER O R M RAR 29.71 WIND SE 2 SEA SW 2  
 TEMPERATURE DRY 46 WET 46 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.72	31.51	24.73	.625		.00	6
5	6.70	31.53	24.75	.621		.00	7
10	6.74	31.53	24.75	.529		.00	7
15	6.26	31.55	24.82	.626		.00	6
20	3.37	31.71	25.25	.529		.00	5
30	3.02	31.71	25.28	.660		.00	7
40	2.97	31.73	25.30	.663		.00	7
50	2.95	31.73	25.31	.664		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	6.72	31.51	24.73	322.1	.000
10	6.74	31.53	24.75	320.9	.032
20	3.37	31.71	25.25	272.5	.062
30	3.02	31.71	25.28	269.7	.089
50	2.95	31.73	25.31	267.7	.143

## STATION 170

57-46 N 161-20 W 23 JUL 1939 1745 GCT  
 WEATHER O F RAR 29.70 WIND SE 2 SEA SW 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.14	31.38	24.82	.638		.00	3
5	5.14	31.42	24.85	.628		.00	3
10	4.20	31.44	24.96	.617		.00	3
15	4.10	31.44	24.97	.635		.00	3
20	4.07	31.44	24.98	.614		.00	2
30	3.85	31.47	25.02	.582		.00	4
40	3.70	31.49	25.05	.640		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	5.14	31.38	24.82	314.0	.000
10	4.20	31.44	24.96	300.2	.031
20	4.07	31.44	24.98	299.1	.061
30	3.85	31.47	25.02	294.9	.091

## STATION 171

57-56 N 161-28 W 24 JUL 1939 0008 GCT  
 WEATHER 0 BAR 29.73 WIND SW 2 SEA SW 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.43	30.97	24.35	.613		.00	8
5	5.99	30.99	24.41	.621		.00	8
10	5.03	31.11	24.62	.623		.00	8
15	4.64	31.15	24.69	.624		.00	9
20	4.60	31.15	24.69	.616		.00	10
30	4.61	31.15	24.69	.617		.00	9
40	4.56	31.18	24.72	.620		.00	9
45	4.53	31.15	24.70	.620		.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.43	30.97	24.35	359.0	.000
10	5.03	31.11	24.62	333.2	.035
20	4.60	31.15	24.69	326.0	.068
30	4.61	31.15	24.69	326.1	.101

## STATION 172

59-05 N 161-35 W 24 JUL 1939 0130 GCT  
 WEATHER 0 BAR 29.73 WIND SW 2 SEA W 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.77	30.41	23.73	.594		.00	4
5	7.72	30.41	23.74	.601		.00	4
10	6.85	30.57	23.98	.598		.00	5
20	6.53	30.62	24.06	.603		.00	5
30	6.50	30.64	24.08	.597		.00	6
36	6.39	30.66	24.11	.593		.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.77	30.41	23.73	417.6	.000
10	6.85	30.57	23.98	394.1	.041
20	6.53	30.62	24.06	386.6	.080
30	6.50	30.64	24.08	384.9	.119

## STATION 173

58-14 N 161-45 W 24 JUL 1939 0358 GCT  
 WEATHER O F BAR 29.74 WIND SSW 2 SEA W 2  
 TEMPERATURE DRY 46 WET 46 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.66	30.35	23.70	.583		.00	12
5	7.64	30.37	23.72	.607		.00	9
10	7.67	30.37	23.71	.586		.00	10
15	7.61	30.37	23.72	.598		.00	9
20	7.62	30.37	23.72	.594		.00	8
30	7.14	30.35	23.77	.584		.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	7.66	30.35	23.70	420.6	.000
10	7.67	30.37	23.71	419.4	.042
20	7.62	30.37	23.72	418.9	.084
30	7.14	30.35	23.77	414.4	.126

## STATION 174

58-23 N 161-51 W 24 JUL 1939 0610 GCT  
 WEATHER O F BAR 29.73 WIND SSW 3 SEA SW 2  
 TEMPERATURE DRY 46 WET 46 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.66	29.85	23.17	.591		.00	3
5	8.63	29.81	23.14	.573		.01	3
10	8.53	29.96	23.27	.583		.01	2
15	8.33	30.03	23.36	.589		.02	2
20	8.15	30.16	23.48	.601		.02	2
25	7.99	30.28	23.60	.594		.02	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	8.66	29.85	23.17	471.4	.000
10	8.53	29.96	23.27	461.5	.047
20	8.15	30.16	23.48	441.5	.092

## STATION 175

58-35 N 162-00 W 24 JUL 1939 0800 GCT  
 WEATHER 0 PAR 29.75 WIND SW 5 SEA SW 3  
 TEMPERATURE DRY 48 WET 48 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.27	29.58	22.87	.580		.00	3
5	8.60	29.94	23.25	.584		.00	3
10	8.27	30.17	23.47	.594		.00	3
15	8.10	30.28	23.58	.598		.00	5
20	8.01	30.35	23.65	.592		.00	4
30	7.96	30.39	23.69	.594		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.27	29.58	22.87	500.2	.000
10	8.27	30.17	23.47	442.3	.047
20	8.01	30.35	23.65	425.5	.090
30	7.96	30.39	23.69	421.9	.132

## STATION 176

57-44 N 157-47 W 25 JUL 1939 0243 GCT  
 WEATHER 0 PAR 29.92 WIND W 3 SEA SW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.56	28.98	22.20	.555		.03	11
5	10.54	28.96	22.18	.556		.03	10
10	10.58	28.96	22.18	.559		.03	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.56	28.98	22.20	564.2	.000
10	10.58	28.96	22.18	566.2	.057

## STATION 177

57-54 N 157-47 W 25 JUL 1939 0415 GCT  
 WEATHER 0 BAR 29.91 WIND W 2 SEA SW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.83	28.98	22.15	.558		.00	4
5	10.82	28.98	22.15	.435		.00	4
10	10.85	28.98	22.15	.512		.00	3
14		29.02		.559		.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	10.83	28.98	22.15	568.5	.000
10	10.85	28.98	22.15	568.5	.057

## STATION 178

58-04 N 157-46 W 25 JUL 1939 0600 GCT  
 WEATHER C M BAR 29.91 WIND W 2 SEA SW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 20

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.95	28.77	21.97	.556		.00	10
5	10.95	28.77	21.97	.554		.00	10
10	11.00	28.71	21.91	.555		.00	8
15	10.93	28.73	21.94	.559		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	10.95	28.77	21.97	586.0	.000
10	11.00	28.71	21.91	591.4	.059

## STATION 179

58-13 N 157-44 W 25 JUL 1939 0726 GCT  
 WEATHER C M BAR 29.91 WIND W 2 SEA SW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.97	29.13	22.41	.576		.01	5
5	9.93	29.13	22.41	.576		.01	5
10	9.91	29.14	22.43	.576		.02	5
15	9.79	29.14	22.44	.576		.02	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.97	29.13	22.41	544.0	.000
10	9.91	29.14	22.43	542.5	.054

## STATION 180

58-22 N 157-44 W 25 JUL 1939 0907 GCT  
 WEATHER C BAR 29.94 WIND W 1 SEA W 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.68	28.95	22.15	.544		.05	9
5	10.66	28.95	22.16	.546		.05	9
10	10.68	28.98	22.18	.546		.06	10
12	10.62	28.95	22.16	.546		.07	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	10.68	28.95	22.15	568.4	.000
10	10.68	28.98	22.18	566.3	.057

## STATION 181

58-22 N 157-44 W 25 JUL 1939 1004 GCT  
 WEATHER C BAR 29.96 WIND W 1 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.01	28.89	22.05	.533		.08	9
5	10.99	28.86	22.03	.437		.06	10
10	11.03	28.87	22.03	.535		.08	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.01	28.89	22.05	578.1	.000
10	11.03	28.87	22.03	580.0	.058

## STATION 182

58-22 N 157-44 W 25 JUL 1939 1109 GCT  
 WEATHER C BAR 29.96 WIND W 1 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 13

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.20	28.75	21.91	.530		.04	13
5	11.16	28.77	21.93	.530		.04	12
10	11.20	28.77	21.93	.548		.07	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.20	28.75	21.91	591.5	.000
10	11.20	28.77	21.93	590.2	.059



## STATION 183

58-22 N 157-44 W 25 JUL 1939 1203 GCT  
 WEATHER C BAR 29.96 WIND W 1 SEA W 1  
 TEMPERATURE DRY 50 WET 48 DEPTH 13

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.56	28.26	21.47	.522		.09	13
5	11.50	28.30	21.51	.539		.09	14
10	11.53	28.33	21.53	.534		.08	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.56	28.26	21.47	633.8	.070
10	11.53	28.33	21.53	628.2	.063

## STATION 184

58-22 N 157-44 W 25 JUL 1939 1317 GCT  
 WEATHER C BAR 29.95 WIND SW 1 SEA SW 1  
 TEMPERATURE DRY 50 WET 48 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.59	28.08	21.33	.533		.08	12
5	11.59	28.15	21.38	.547		.08	12
10	11.59	28.28	21.48	.546		.08	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.59	28.08	21.33	647.6	.000
10	11.59	28.28	21.48	632.9	.064

## STATION 185

58-20 N 158-03 W 25 JUL 1939 1532 GCT  
 WEATHER 0 BAR 29.94 WIND CALM SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.47	27.21	20.84	.577		.00	5
5	10.47	27.21	20.84	.567		.00	6
10	10.51	27.23	20.85	.556		.00	6
15	10.47	27.25	20.87	.567		.00	6
20		27.23		.568		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.47	27.21	20.84	694.4	.000
10	10.51	27.23	20.85	693.3	.069
20	10.47	27.23	20.85	693.3	.138

## STATION 186

58-24 N 158-20 W 25 JUL 1939 1728 GCT  
 WEATHER 0 BAR 29.94 WIND CALM SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.06	23.42	17.81	.586		.03	10
5	10.75	24.02	18.32	.583		.03	10
10	10.72	24.20	18.47	.586		.03	10
15	10.70	24.24	18.50	.586		.03	10
20	10.69	24.24	18.50	.586		.03	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.06	23.42	17.81	985.7	.000
10	10.72	24.20	18.47	922.4	.095
20	10.69	24.24	18.50	919.1	.187

## STATION 187

59-28 N 158-36 W 25 JUL 1939 1910 GCT  
 WEATHER 0 BAR 29.93 WIND CALM SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.33	26.04	19.95	.609		.00	5
5	10.25	26.08	20.00	.597		.00	4
10	10.24	26.24	20.12	.597		.00	4
15	10.16	26.40	20.26	.601		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.33	26.04	19.95	779.4	.000
10	10.24	26.24	20.12	763.2	.077

## STATION 188A

59-18 N 158-28 W 25 JUL 1939 2045 GCT  
 WEATHER 0 BAR 29.99 WIND CALM SEA SW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.92	24.33	18.54	.588		.02	6
5	10.13	25.59	19.64	.590		.02	5
10	9.92	25.90	19.91	.589		.02	6
15	9.60	26.27	20.24	.585		.02	6
20		26.40		.591		.02	5
25		26.47		.595		.02	0

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.92	24.33	18.54	915.7	.000
10	9.92	25.90	19.91	783.9	.085

## STATION 188B

58-18 N 158-28 W 25 JUL 1939 2124 GCT  
 WEATHER 0 BAR 29.99 WIND CALM SEA SW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.54	24.96	19.08	.594		.02	8
5	9.94	25.72	19.77	.597		.02	4
10	9.88	25.84	19.87	.588		.02	4
15	9.79	25.90	19.92	.589		.02	4
20	9.82	25.93	19.95	.590		.02	5
25	9.79	25.95	19.97	.589		.02	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.54	24.96	19.08	863.0	.000
10	9.88	25.84	19.87	787.8	.083
20	9.82	25.93	19.95	780.3	.161

## STATION 189

58-10 N 158-19 W 25 JUL 1939 2303 GCT  
 WEATHER C BAR 29.99 WIND CALM SEA SW 1  
 TEMPERATURE DRY 52 WET 50 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.97	27.05	20.79	.594		.00	4
5	8.90	28.12	21.78	.586		.00	3
10	8.73	28.31	21.96	.603		.00	3
15	8.52	28.51	22.14	.604		.00	3
20	8.52	28.60	22.21			.00	3
25	8.38	28.86	22.44	.612		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.97	27.05	20.79	698.8	.000
10	8.73	28.31	21.96	587.3	.064
20	8.52	28.60	22.21	562.9	.122

## STATION 190

58-01 N 158-10 W 26 JUL 1939 0045 GCT  
 WEATHER C BAR 30.01 WIND CALM SEA SW 1  
 TEMPERATURE DRY 51 WET 49 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.59	29.43	22.85	.606		.00	5
5	8.41	29.43	22.88	.605		.00	5
10	8.44	29.43	22.87	.626		.00	6
15	8.38	29.49	22.93	.611		.00	6
20	8.37	29.45	22.90	.612		.00	7
30	8.35	29.47	22.92	.610		.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.59	29.43	22.85	501.7	.000
10	8.44	29.43	22.87	499.8	.050
20	8.37	29.45	22.90	497.5	.100
30	8.35	29.47	22.92	495.8	.150

## STATION 191

57-52 N 158-04 W 26 JUL 1939 0218 GCT  
 WEATHER C BAR 30.00 WIND NNW 1 SEA WSW 1  
 TEMPERATURE DRY 50 WET 48 DEPTH 28

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.90	29.79	22.93	.590		.00	4
5	9.64	29.81	22.99	.596		.00	4
10	9.62	29.83	23.01	.595		.00	3
15	9.56	29.85	23.03	.595		.00	3
20		29.87		.595		.00	3
25	9.51	29.87	23.06	.585		.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.90	29.79	22.93	493.9	.000
10	9.62	29.83	23.01	486.8	.049
20	9.52	29.87	23.05	482.5	.097

## STATION 192

57-43 N 157-55 W 26 JUL 1939 0400 GCT  
 WEATHER C BAR 29.97 WIND CALM SEA WSW 1  
 TEMPERATURE DRY 51 WET 49 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.31	29.33	22.51	.569		.05	11
5	10.00	29.60	22.77	.569		.00	10
10	10.01	29.63	22.79	.570		.00	10
15	9.97	29.63	22.80	.570		.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta \sigma$
0	10.31	29.33	22.51	534.4	.000
10	10.01	29.63	22.79	507.6	.052

## STATION 193

57-26 N 158-00 W 26 JUL 1939 0636 GCT  
 WEATHER C BAR 29.97 WIND NE 1 SEA WSW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.79	29.79	22.79	.484		.00	18
5	10.76	29.88	22.86	.516		.00	17
10	10.79	29.83	22.82	.522		.00	17
14	10.65	29.85	22.86	.516		.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta \sigma$
0	10.79	29.79	22.79	507.8	.000
10	10.79	29.83	22.82	505.0	.051

## STATION 194

57-30 N 158-05 W 26 JUL 1939 0739 GCT  
 WEATHER C PAR 29.97 WIND NE 1 SEA WSW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 26

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.22	30.66	23.72	.580		.00	4
5	9.21	30.64	23.70	.580		.00	4
10	9.24	30.66	23.71	.590		.00	5
15	9.17	30.66	23.72	.593		.00	5
20	9.19	30.68	23.74	.591		.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	9.22	30.66	23.72	419.1	.000
10	9.24	30.66	23.71	419.5	.042
20	9.19	30.68	23.74	417.5	.084

## STATION 195

57-30 N 158-13 W 26 JUL 1939 0921 GCT  
 WEATHER C PAR 29.97 WIND W 1 SEA W 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.57	30.82	23.94	.593		.00	3
5	8.54	30.82	23.94	.591		.00	3
10	8.57	30.82	23.94	.590		.00	2
15	8.53	30.84	23.96	.595		.00	2
20	8.53	30.84	23.96	.593		.00	2
25	8.52	30.84	23.96	.591		.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	8.57	30.82	23.94	397.9	.000
10	8.57	30.82	23.94	398.0	.040
20	8.53	30.84	23.96	396.1	.080

## STATION 196

57-48 N 158-20 W 26 JUL 1939 1114 GCT  
 WEATHER C BAR 29.97 WIND N 1 SEA N 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.28	30.52	23.75	.604		.00	1
5	8.24	30.55	23.79	.605		.00	2
10	8.26	30.55	23.77	.608		.00	2
15	8.17	30.57	23.80	.613		.00	3
20	8.16	30.59	23.82	.607		.00	3
30	8.15	30.57	23.80	.604		.00	3
35	8.13	30.57	23.81	.614		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	8.28	30.52	23.75	416.2	.000
10	8.26	30.55	23.77	413.8	.042
20	8.16	30.59	23.82	409.6	.083
30	8.15	30.57	23.80	411.1	.124

## STATION 197

57-56 N 158-28 W 26 JUL 1939 1310 GCT  
 WEATHER C BAR 29.99 WIND SE 1 SEA WSW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.83	29.52	23.02	.617		.00	3
5	7.76	29.54	23.05	.6302		.00	3
10	7.74	29.60	23.10	.622		.00	3
15	7.62	29.65	23.16	.626		.00	3
20	7.58	29.69	23.19	.628		.00	4
30	7.56	29.70	23.20	.627		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	7.83	29.52	23.02	484.9	.000
10	7.74	29.60	23.10	477.8	.048
20	7.58	29.69	23.19	469.1	.095
30	7.56	29.70	23.20	468.2	.142



## STATION 198

58-06 N 158-36 W 26 JUL 1939 1455 GCT  
 WEATHER C BAR 29.99 WIND SE 2 SEA WSW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.66	26.38	20.32	.588		.00	5
5	9.49	26.82	20.69	.553		.00	4
10	9.20	27.27	21.08	.591		.00	3
15	8.83	27.75	21.51	.584		.00	3
20	8.38	28.22	21.94	.609		.00	4
30	7.95	28.69	22.36	.614		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	9.66	26.38	20.32	744.2	.000
10	9.20	27.27	21.08	671.4	.071
20	8.38	28.22	21.94	589.4	.134
30	7.95	28.69	22.36	548.8	.191

## STATION 199

58-15 N 158-43 W 26 JUL 1939 1615 GCT  
 WEATHER C BAR 29.99 WIND SSE 2 SEA WSW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.84	26.80	20.62	.591			
5	9.83	26.80	20.62	.590			
8	9.88	26.78	20.60	.589			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	9.84	26.80	20.62	715.5	.000

## STATION 200

58-29 N 159-58 W 27 JUL 1939 0450 GCT  
 WEATHER C BAR 30.00 WIND SE 2 SEA SE 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 24

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.47	28.78	22.21	.568		.02	12
5	9.43			.572		.02	12
10	9.48	28.78	22.21	.572		.02	12
15	9.41	28.80	22.24	.571		.02	12
20	9.40	28.80	22.24	.570		.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.47	28.78	22.21	562.6	.000
10	9.48	28.78	22.21	562.9	.056
20	9.40	28.80	22.24	560.4	.112

## STATION 201

58-21 N 159-49 W 27 JUL 1939 0637 GCT  
 WEATHER C BAR 30.01 WIND CALM SEA SSW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.13	28.95	22.40	.593		.02	5
5	7.53	29.02	22.68	.563		.02	5
10	7.33	29.09	22.76	.547		.02	7
15	7.30	29.13	22.79	.562		.02	8
20	6.95	29.34	23.00	.564		.02	8
30	6.87	29.40	23.06	.556		.02	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.13	28.95	22.40	545.1	.000
10	7.33	29.09	22.76	510.8	.053
20	6.95	29.34	23.00	487.5	.103
30	6.87	29.40	23.06	482.2	.151

## STATION 202

58-11 N 159-42 W 27 JUL 1939 0820 GCT  
 WEATHER 0 BAR 29.98 WIND CALM SEA SSW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.95	27.86	21.57	.611		.00	4
5	8.62	27.92	21.67	.612		.00	4
10	8.07	28.04	21.84	.608		.00	4
15	7.26	28.89	22.61	.587		.00	5
20	7.19	29.11	22.79	.583		.00	5
25	7.16	29.25	22.90	.578		.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	8.95	27.86	21.57	623.8	.000
10	8.07	28.04	21.84	598.7	.061
20	7.19	29.11	22.79	507.7	.116

## STATION 203

58-03 N 159-32 W 27 JUL 1939 1003 GCT  
 WEATHER 0 BAR 29.99 WIND NNW 1 SEA SSW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.37	29.70	23.35	.612		.02	5
5	6.31	29.76	23.41	.608		.02	5
10	6.27	29.78	23.43	.607		.02	5
15	6.22	29.78	23.43	.608		.02	5
20	6.22	29.79	23.44	.607		.02	5
25	6.22	29.81	23.46	.604		.02	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	6.37	29.70	23.35	453.6	.000
10	6.27	29.78	23.43	446.5	.045
20	6.22	29.79	23.44	445.3	.090

## STATION 204

57-53 N 159-25 W 27 JUL 1939 1153 GCT  
 WEATHER O P BAR 29.99 WIND SE 2 SEA W 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.65	27.95	21.60	.611		.00	2
5	8.24	28.13	21.88	.619		.00	3
10	7.76	28.59	22.31	.557		.00	3
15	7.04	29.00	22.72	.567		.00	3
20	6.88	29.13	22.84	.599		.00	2
30	5.99	30.23	23.82	.641		.00	3
35	5.98	30.26	23.84	.559		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.65	27.95	21.69	613.0	.000
10	7.76	28.59	22.31	553.6	.058
20	6.88	29.13	22.84	502.4	.111
30	5.99	30.23	23.82	409.8	.157

## STATION 205

57-44 N 159-18 W 27 JUL 1939 1352 GCT  
 WEATHER O P BAR 29.96 WIND SE 1 SEA W 1  
 TEMPERATURE DRY 47 WET 47 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.12	30.55	24.05	.669		.00	4
5	6.04	30.59	24.09	.667		.00	4
10	6.09	30.59	24.09	.672		.00	4
15	6.06	30.59	24.09	.676		.00	5
20	6.07	30.59	24.09	.675		.00	4
30	6.07	30.61	24.11	.678		.00	4
35	6.07	30.62	24.11	.670		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	6.12	30.55	24.05	387.0	.000
10	6.09	30.59	24.09	383.7	.039
20	6.07	30.59	24.09	383.6	.077
30	6.07	30.61	24.11	382.1	.115

## STATION 206

57-35 N 159-10 W 27 JUL 1939 1550 GCT  
 WEATHER O BAR 29.99 WIND SE 1 SEA SW 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.42	30.82	24.22	.584		.00	5
5	6.35	30.86	24.27	.578		.00	4
10	6.38	30.88	24.28	.575		.00	4
15	6.34	30.88	24.29	.585		.00	5
20	6.34	30.88	24.29	.577		.00	5
30	6.31	30.90	24.30	.583		.00	6
40	6.30	30.90	24.31	.582		.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	6.42	30.82	24.22	370.2	.000
10	6.38	30.88	24.28	365.3	.037
20	6.34	30.88	24.29	364.9	.074
30	6.31	30.90	24.30	363.2	.110

## STATION 207

57-26 N 159-02 W 27 JUL 1939 1750 GCT  
 WEATHER C BAR 29.99 WIND SE 1 SEA SW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.58	31.17	24.48	.675		.00	4
5	6.53	31.18	24.50	.677		.00	5
10	6.46	31.18	24.51	.676		.00	5
15	6.52			.675		.00	6
20	6.47	31.18	24.51	.678		.00	6
25	6.48	31.18	24.50	.675		.00	7
30	6.48	31.18	24.50	.671		.00	6
40	6.50	31.18	24.50	.671		.00	6
45	6.49	31.18	24.50	.648		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	6.58	31.17	24.48	345.8	.000
10	6.46	31.18	24.51	343.8	.034
20	6.47	31.18	24.51	344.0	.068
30	6.48	31.18	24.50	344.2	.102

## STATION 208

57-18 N 158-53 W 27 JUL 1939 1945 GCT  
 WEATHER C BAR 30.00 WIND E 1 SEA SW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.54	31.22	24.40	.647		.00	5
5	7.58	31.24	24.41	.646		.00	5
10	7.53	31.24	24.41	.644		.00	5
15	7.56	31.24	24.41	.645		.00	4
20	7.53	31.24	24.41	.639		.00	5
30	7.50	31.24	24.42	.642		.00	5
40	7.51	31.26	24.43	.637		.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta \sigma$
0	7.54	31.22	24.40	354.1	.000
10	7.53	31.24	24.41	352.6	.035
20	7.53	31.24	24.41	352.7	.070
30	7.50	31.24	24.42	352.5	.105

## STATION 209

57-09 N 158-45 W 27 JUL 1939 2143 GCT  
 WEATHER RC BAR 29.99 WIND NW 1 SEA W 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.20	31.22	24.30	.660		.00	5
5	7.54	31.27	24.44	.662		.00	5
10	7.45	31.26	24.44	.663		.00	5
15	7.48	31.26	24.44	.661		.00	5
20	7.41	31.26	24.45	.660		.00	5
30	7.41	31.26	24.45	.666		.00	6
35	7.42	31.27	24.45	.663		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta \sigma$
0	8.20	31.22	24.30	362.9	.000
10	7.45	31.26	24.44	350.1	.036
20	7.41	31.26	24.45	349.7	.071
30	7.41	31.26	24.45	349.8	.106

## STATION 210

57-00 N 158-38 W 27 JUL 1939 2308 GCT  
 WEATHER C BAR 29.96 WIND NW 1 SEA W 1  
 TEMPERATURE DRY 53 WET 51 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.73	29.83	22.83	.535		.00	9
5	10.07	30.16	23.19	.551		.00	9
10	9.83	30.25	23.29	.558		.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	10.73	29.83	22.83	503.9	.000
10	9.88	30.25	23.29	459.6	.048

## STATION 211

57-10 N 158-27 W 28 JUL 1939 0129 GCT  
 WEATHER C BAR 29.98 WIND N 2 SEA W 1  
 TEMPERATURE DRY 53 WET 51 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.94	30.34	23.35	.520		.00	14
3	9.73	30.35	23.39	.530		.00	14
10	9.50	30.50	23.55	.549		.00	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.94	30.34	23.35	453.7	.000
10	9.50	30.50	23.55	435.3	.044

## STATION 212

57-08 N 158-32 W 28 JUL 1939 0231 GCT  
 WEATHER C BAR 29.94 WIND W 1 SEA W 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.83	30.70	23.65	.586		.00	8
5	9.01	30.90	23.93	.604		.00	8
10	8.42	31.02	24.12	.547		.00	7
15	8.35	31.06	24.16	.567		.00	7
20	8.24	31.08	24.19	.535		.00	7
30	8.23	31.08	24.19	.622		.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.83	30.70	23.65	425.2	.000
10	8.42	31.02	24.12	381.0	.040
20	8.24	31.08	24.19	374.2	.078
30	8.23	31.08	24.19	374.2	.115

## STATION 213

57-22 N 158-38 W 28 JUL 1939 0423 GCT  
 WEATHER C BAR 29.93 WIND N 2 SEA W 1  
 TEMPERATURE DRY 50 WET 50 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.13	31.11	24.08	.606		.00	2
5	8.15	31.17	24.27	.626		.00	2
10	7.95	31.18	24.31	.623		.00	3
15	7.95	31.18	24.31	.624		.00	3
20	7.82	31.20	24.34	.626		.00	3
30	7.80	31.20	24.35	.625		.00	4
35	7.80	31.24	24.38	.629		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.13	31.11	24.08	384.3	.000
10	7.95	31.18	24.31	362.6	.037
20	7.82	31.20	24.34	359.5	.073
30	7.80	31.20	24.35	359.4	.109



## STATION 214

57-31 N 158-45 W 28 JUL 1939 0630 GCT  
 WEATHER C BAR 29.92 WIND NNE 1 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.47	31.18	24.38	.641		.00	5
5	7.43	31.18	24.38	.646		.00	5
10	7.27	31.18	24.40	.648		.00	4
15	7.26	31.22	24.43	.646		.00	4
20	7.17	31.24	24.46	.646		.00	4
30	7.10	31.24	24.47	.614		.00	4
40	7.13	31.22	24.45	.645		.00	4
45	7.13	31.22	24.45	.644		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	7.47	31.18	24.38	356.2	.000
10	7.27	31.18	24.40	353.7	.035
20	7.17	31.24	24.46	348.1	.070
30	7.10	31.24	24.47	347.3	.105

## STATION 215

57-40 N 158-53 W 28 JUL 1939 0820 GCT  
 WEATHER C BAR 29.92 WIND E 1 SEA W 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.52	30.90	24.28	.660		.00	6
5	6.56	30.91	24.28	.662		.00	5
10	6.61	30.93	24.29	.673		.00	5
15	6.57	30.93	24.30	.613		.00	5
20	6.48	30.95	24.32	.660		.00	5
30	6.54	30.95	24.32	.658		.00	4
40	6.54	30.93	24.30	.659		.00	4
45	6.54	30.93	24.30	.658		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	6.52	30.90	24.28	365.4	.000
10	6.61	30.93	24.29	364.3	.036
20	6.48	30.95	24.32	361.3	.072
30	6.54	30.95	24.32	362.1	.108

## STATION 216

57-48 N 159-01 W 28 JUL 1939 1019 GCT  
 WEATHER C BAR 29.92 WIND ESE 1 SEA W 1  
 TEMPERATURE DRY 43 WET 48 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.30	30.64	24.10	.672		.02	5
5	6.34	30.64	24.10	.675		.02	4
10	6.34	30.64	24.10	.673		.02	4
15	6.34	30.62	24.09	.672		.00	4
20	6.32	30.64	24.10	.675		.00	4
30	6.32	30.64	24.10	.670		.00	4
35	6.32	30.64	24.10	.672		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	6.30	30.64	24.10	382.3	.000
10	6.34	30.64	24.10	382.8	.038
20	6.32	30.64	24.10	382.7	.076
30	6.32	30.64	24.10	382.8	.114

## STATION 217

57-57 N 159-09 W 28 JUL 1939 1211 GCT  
 WEATHER C BAR 29.90 WIND ESE 1 SEA W 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 38

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.72	27.70	21.34	.593		.00	3
5	8.61	28.04	21.76	.602		.00	3
10	8.22	28.13	21.80	.609		.00	3
15	7.69	28.55	22.20	.606		.00	3
20	6.35	29.90	23.51	.587		.00	4
30	6.08	30.21	23.79	.623		.00	4
35	6.07	30.21	23.79	.630		.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.72	27.70	21.34	646.7	.000
10	8.22	28.13	21.80	593.9	.062
20	6.35	29.90	23.51	438.5	.114
30	6.08	30.21	23.79	412.3	.157

## STATION 218

58-06 N 159-16 W 28 JUL 1939 1352 GCT  
 WEATHER C BAR 29.89 WIND CALM SEA W 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 28

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.99	27.94	21.63	.610		.00	2
5	8.44	28.08	21.82	.611		.00	3
10	7.82	28.40	22.15	.611		.00	3
15	7.72	28.57	22.30	.614		.00	3
20	7.58	28.54	22.37	.611		.00	3
25	7.50	28.69	22.42	.613		.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.99	27.94	21.63	618.4	.000
10	7.82	28.40	22.15	568.6	.059
20	7.58	28.64	22.37	547.7	.115

## STATION 219

58-15 N 159-25 W 28 JUL 1939 1540 GCT  
 WEATHER C BAR 29.91 WIND NNW 2 SEA NNW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.78	28.01	21.57	.584		.00	3
5	9.12	28.13	21.76	.508		.00	3
10	8.00	28.31	22.06	.553		.00	3
15	7.81	28.62	22.33	.542		.00	3
20	7.51	28.80	22.51	.560		.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.78	28.01	21.57	624.5	.000
10	8.00	28.31	22.06	577.6	.060
20	7.51	28.80	22.51	534.8	.116

## STATION 220

58-27 N 159-46 W 28 JUL 1939 1735 GCT  
 WEATHER C BAR 29.93 WIND NNW 2 SEA NNW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.87	28.44	22.04	.590		.02	4
5	8.81	28.44	22.05	.589		.02	4
10	8.06	28.59	22.27	.560		.02	5
15	8.03	28.68	22.34	.556		.02	10
20	7.85	28.80	22.46	.539		.05	10
25	7.86	28.91	22.55	.538		.06	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.87	28.44	22.04	579.4	.000
10	8.06	28.59	22.27	557.4	.057
20	7.85	28.80	22.46	539.1	.112

## STATION 221

58-35 N 159-47 W 28 JUL 1939 2040 GCT  
 WEATHER C BAR 29.94 WIND ENE 2 SEA 0 0  
 TEMPERATURE DRY 54 WET 52 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.15	27.72	20.95	.568		.00	2
5	11.93	27.75	21.01	.557		.00	2
10	10.69	28.08	21.48	.539		.03	4
15	10.05	28.28	21.74	.538		.07	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	12.15	27.72	20.95	683.7	.000
10	10.69	28.08	21.48	633.2	.066

## STATION 222

58-42 N 159-49 W 28 JUL 1939 2240 GCT  
 WEATHER C PAR 29.95 WIND ENE 1 SEA 0 0  
 TEMPERATURE DRY 56 WET 53 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.14	27.27	20.42	.558			16
5	12.75	27.27	20.49	.563			15
7	11.93	27.27	20.64	.557			15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	13.14	27.27	20.42	734.3	.000

## STATION 223A

58-35 N 159-39 W 29 JUL 1939 0820 GCT  
 WEATHER C PAR 29.96 WIND W 2 SEA 0 0  
 TEMPERATURE DRY 55 WET 53 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.35	27.65	20.86	.558			
5	12.35	27.66	20.87	.561			
10	10.75	28.01	21.41	.559			
15	10.26	28.13	21.50	.521			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma_t$
0	12.35	27.65	20.86	692.3	.000
10	10.75	28.01	21.41	639.4	.067

## STATION 223B

58-35 N 159-39 W 29 JUL 1939 0915 GCT  
 WEATHER C BAR 29.96 WIND W 2 SEA 0 0  
 TEMPERATURE DRY 55 WET 53 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.31	27.74	20.94	.561			
5	12.29	27.74	20.94	.559			
10	11.14	28.03	21.36	.558			
15	10.05	28.19	21.67	.514			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.31	27.74	20.94	684.9	.000
10	11.14	28.03	21.36	644.1	.066

## STATION 223C

58-35 N 159-39 W 29 JUL 1939 1013 GCT  
 WEATHER BC BAR 29.96 WIND W 2 SEA 0 0  
 TEMPERATURE DRY 55 WET 53 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.32	27.74	20.94	.558			
5	12.13	27.79	21.01	.561			
10	10.12	28.19	21.65	.534			
15	9.92	28.39	21.84	.517			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.32	27.74	20.94	685.1	.000
10	10.12	28.19	21.65	616.3	.065

## STATION 223D

58-35 N 159-39 W 29 JUL 1939 1105 GCT  
 WEATHER BC BAR 29.96 WIND W 2 SEA 0 0  
 TEMPERATURE DRY 55 WET 53 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.90	27.85	21.09	.565			
5	11.80	27.86	21.12	.564			
10	10.74	28.15	21.52	.552			
15	9.93	28.22	21.71	.525			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.90	27.85	21.09	669.8	.000
10	10.74	28.15	21.52	628.8	.065

## STATION 223E

58-35 N 159-39 W 29 JUL 1939 1213 GCT  
 WEATHER BC BAR 29.95 WIND W 3 SEA  
 TEMPERATURE DRY 54 WET 53 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.40	27.94	21.25	.561			
5	11.39	27.92	21.24	.563			
10	10.24	28.19	21.64	.532			
15	9.97	28.21	21.69	.521			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.40	27.94	21.25	654.9	.000
10	10.24	28.19	21.64	618.1	.064

## STATION 223F

58-35 N 159-39 W 29 JUL 1939 1306 GCT  
 WEATHER BC BAR 29.96 WIND W 3 SEA  
 TEMPERATURE DRY 54 WET 53 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.32	27.94	21.26	.568			
5	11.26	27.94	21.27	.570			
10	10.54	28.17	21.57	.558			
15	9.86	28.17	21.68	.531			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.32	27.94	21.26	653.5	.000
10	10.54	28.17	21.57	624.2	.064

## STATION 223G

58-35 N 159-39 W 29 JUL 1939 1400 GCT  
 WEATHER BC BAR 29.96 WIND WNW 3 SEA  
 TEMPERATURE DRY 54 WET 52 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.15	27.92	21.28	.561			
5	11.28	27.92	21.26	.568			
10	10.10	28.13	21.61	.544			
15	10.08	28.13	21.61	.535			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.15	27.92	21.28	652.3	.000
10	10.10	28.13	21.61	620.4	.064



## STATION 223H

58-35 N 159-39 W 29 JUL 1939 1502 GCT  
 WEATHER BC BAR 29.96 WIND NW 3 SEA NW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.18	27.92	21.27	.568			
5	11.32	27.92	21.25	.572			
10	10.13	28.12	21.60	.538			
15	10.12	28.13	21.61	.533			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.18	27.92	21.27	652.8	.000
10	10.13	28.12	21.60	621.6	.064

## STATION 223I

58-35 N 159-39 W 29 JUL 1939 1602 GCT  
 WEATHER BC BAR 29.96 WIND NW 3 SEA NW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.40	27.92	21.24	.543			
5	11.52	28.12	21.37	.562			
10	10.36	28.12	21.56	.556			
15	10.16	28.13	21.60	.536			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.40	27.92	21.24	656.3	.000
10	10.36	28.12	21.56	625.1	.064

## STATION 223J

58-35 N 159-39 W 29 JUL 1939 1700 GCT  
 WEATHER BC BAR 29.97 WIND NW 3 SEA NW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.57	27.86	21.16	.564			
5	11.63	27.92	21.20	.559			
10	10.16	28.12	21.59	.536			
15	10.15	28.13	21.60	.521			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.57	27.86	21.16	663.6	.000
10	10.16	28.12	21.59	622.1	.064

## STATION 223K

58-35 N 159-39 W 29 JUL 1939 1808 GCT  
 WEATHER BC BAR 29.98 WIND NW 3 SEA NW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.84	27.81	21.07	.555			
5	11.85	27.81	21.07	.560			
10	10.20	28.17	21.63	.538			
15	10.14	28.17	21.64	.522			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.84	27.81	21.07	671.8	.000
10	10.20	28.17	21.63	619.0	.065

## STATION 223L

58-35 N 159-39 W 29 JUL 1939 1914 GCT  
 WEATHER BC BAR 29.99 WIND WNW 4 SEA NW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.72	27.83	21.11	.560			
5	11.85	27.83	21.09	.563			
10	10.10	28.15	21.63	.538			
15	10.06	28.15	21.63	.524			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.72	27.83	21.11	668.3	.000
10	10.10	28.15	21.63	619.0	.064

## STATION 223M

58-35 N 159-39 W 29 JUL 1939 2003 GCT  
 WEATHER BC BAR 29.97 WIND W 4 SEA NW 1  
 TEMPERATURE DRY 54 WET 54 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.52	27.83	21.15	.561			
5	11.56	27.83	21.14	.562			
10	10.16	28.19	21.65	.552			
15	9.96	28.21	21.70	.519			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.52	27.83	21.15	665.0	.000
10	10.16	28.19	21.65	616.9	.064

## STATION 223N

58-35 N 159-39 W 29 JUL 1939 2125 GCT  
 WEATHER BC BAR 29.96 WIND W 5 SEA NW 1  
 TEMPERATURE DRY 55 WET 54 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.70	28.01	21.25	.553			
5	11.48	27.95	21.24	.555			
10	10.28	28.13	21.58	.540			
15	9.84	28.21	21.71	.518			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.70	28.01	21.25	654.6	.000
10	10.28	28.13	21.58	623.2	.064

## STATION 2230

58-35 N 159-39 W 29 JUL 1939 2225 GCT  
 WEATHER BC BAR 29.95 WIND W 5 SEA NW 1  
 TEMPERATURE DRY 55 WET 54 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.86	27.90	21.14	.560			
5	11.76	27.94	21.19	.560			
10	9.95	28.21	21.70	.530			
14	9.82	28.40	21.86	.521			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.86	27.90	21.14	665.4	.000
10	9.95	28.21	21.70	612.2	.064

## STATION 223P

58-35 N 159-39 W 29 JUL 1939 2308 GCT  
 WEATHER BC BAR 29.95 WIND W 5 SEA NW 1  
 TEMPERATURE DRY 56 WET 55 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.00	27.83	21.06	.563			
5	12.04	27.88	21.09	.716			
10	9.84	28.24	21.74	.536			
15	9.78	28.26	21.76	.518			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.00	27.83	21.06	673.0	.000
10	9.84	28.24	21.74	608.4	.064

## STATION 223Q

58-35 N 159-39 W 29 JUL 1939 2400 GCT  
 WEATHER BC BAR 29.95 WIND W 5 SEA NW 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.27	27.81	21.00	.565			
5	12.24	27.79	20.99	.568			
10	10.02	28.15	21.64	.561			
14	9.86	28.21	21.71	.529			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.27	27.81	21.00	679.1	.000
10	10.02	28.15	21.64	617.8	.065

## STATION 223R

58-35 N 159-39 W 30 JUL 1939 0111 GCT  
 WEATHER BC BAR 29.94 WIND W 5 SEA NW 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.81	27.63	20.76	.586			
5	12.82	27.63	20.76	.583			
10	10.14	28.12	21.60	.564			
14	9.91	28.21	21.70	.531			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.81	27.63	20.76	701.8	.000
10	10.14	28.12	21.60	621.8	.066

## STATION 223S

58-35 N 159-39 W 30 JUL 1939 0206 GCT  
 WEATHER BC BAR 29.91 WIND W 5 SEA W 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 16

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.16	27.48	20.58	.578			
5	12.01	27.75	21.00	.583			
10	10.07	28.15	21.63	.551			
12.5	10.03	28.15	21.64	.544			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	13.16	27.48	20.58	719.1	.000
10	10.07	28.15	21.63	618.5	.067

## STATION 223T

58-35 N 159-39 W 30 JUL 1939 0303 GCT  
 WEATHER BC BAR 29.91 WIND WSW 5 SEA W 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.56	27.41	20.45	.564			
5	13.36	27.45	20.52	.576			
10	10.17	27.45	21.07	.547			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	13.56	27.41	20.45	731.6	.000
10	10.17	27.45	21.07	672.1	.070

## STATION 223U

58-35 N 159-39 W 30 JUL 1939 0354 GCT  
 WEATHER BC BAR 29.91 WIND WSW 5 SEA NW 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.47	27.38	20.45	.511			
5	13.50	27.43	20.48	.562			
10	10.23	27.45	21.06	.548			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	13.47	27.38	20.45	732.2	.000
10	10.23	27.45	21.06	673.0	.070

## STATION 223V

58-35 N 159-39 W 30 JUL 1939 0505 GCT  
 WEATHER BC BAR 29.90 WIND WSW 5 SEA SW 1  
 TEMPERATURE DRY 56 WET 54 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.40	27.32	20.41	.568			
5	13.47	27.32	20.40	.573			
10	11.55	27.32	20.75	.568			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	13.40	27.32	20.41	735.3	.000
10	11.55	27.32	20.75	703.4	.072

## STATION 223W

58-35 N 159-39 W 30 JUL 1939 0503 GCT  
 WEATHER BC BAR 29.89 WIND WSW 5 SEA SW 1  
 TEMPERATURE DRY 55 WET 53 DEPTH 12

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.03	27.47	20.60	.518			
5	13.12	27.45	20.57	.525			
9	10.94	27.94	21.33	.528			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	13.03	27.47	20.60	717.6	.000



## STATION 224

56-26 N 160-12 W 13 AUG 1939 2310 GCT  
 WEATHER O R BAR 29.83 WIND SW 1 SEA SW 1  
 TEMPERATURE DRY 50 WET 47 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.05	30.57	23.51				
5	10.02	30.59	23.53				
10	10.00	30.64	23.58				
14	10.04	30.64	23.57				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.05	30.57	23.51	438.3	.000
10	10.00	30.64	23.58	432.5	.044

## STATION 225

56-33 N 160-16 W 14 AUG 1939 0208 GCT  
 WEATHER O P BAR 29.73 WIND NE 2 SEA W 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.49	31.62	24.42				
5	9.49	31.64	24.44				
10	9.36	31.64	24.46				
15	9.30	31.64	24.47				
20	9.18	31.62	24.47				
30	8.78	31.64	24.55				
40	8.74	31.64	24.55				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.49	31.62	24.42	351.8	.000
10	9.36	31.64	24.46	348.5	.035
20	9.18	31.62	24.47	347.5	.070
30	8.78	31.64	24.55	340.3	.104

## STATION 226

56-43 N 160-25 W 14 AUG 1939 0409 GCT  
 WEATHER O R BAR 29.70 WIND ENE 3 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.49	31.64	24.44				
5	9.49	31.64	24.44				
10	9.46	31.67	24.47				
15	9.43	31.69	24.49				
20	9.30	31.69	24.51				
30	6.11	31.69	24.95				
40	6.01	31.71	24.98				
50	5.95	31.71	25.00				
55	5.79	31.71	25.00				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.49	31.64	24.44	350.3	.000
10	9.46	31.67	24.47	347.8	.035
20	9.30	31.69	24.51	344.1	.070
30	6.11	31.69	24.95	301.7	.102
50	5.85	31.71	25.00	297.4	.162

## STATION 227

56-52 N 160-32 W 14 AUG 1939 0635 GCT  
 WEATHER O D BAR 29.68 WIND NE 4 SEA NE 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.12	31.65	24.50				
5	9.33	31.65	24.47				
10	9.31	31.65	24.47				
15	7.74	31.69	24.74				
20	4.27	31.83	25.27				
30	4.15	31.83	25.28				
40	4.12	31.85	25.30				
50	4.12	31.85	25.30				
60		31.85					
65	4.17	31.85	25.29				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.12	31.65	24.50	344.0	.000
10	9.31	31.65	24.47	347.0	.035
20	4.27	31.83	25.27	271.6	.066
30	4.15	31.83	25.28	270.5	.093
50	4.12	31.85	25.30	268.8	.147

## STATION 228

57-01 N 160-40 W 14 AUG 1939 0933 GCT  
 WEATHER C BAR 29.67 WIND NE 4 SEA NE 2  
 TEMPERATURE DRY 48 WET 47 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.92	31.73	24.60				
5	8.83	31.73	24.61				
10	8.61	31.73	24.64				
15	3.83	31.85	25.32				
20	3.77	31.87	25.35				
30	3.72	31.87	25.35				
40	3.74	31.87	25.35				
50	3.71	31.89	25.37				
60	3.70	31.89	25.37				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.92	31.73	24.60	335.1	.000
10	8.61	31.73	24.64	330.8	.033
20	3.77	31.87	25.35	263.9	.063
30	3.72	31.87	25.35	263.5	.089
50	3.71	31.89	25.37	262.0	.142

## STATION 229

57-10 N 160-47 W 14 AUG 1939 1201 GCT  
 WEATHER O P BAR 29.69 WIND NNW 4 SEA WNW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.85	31.73	24.61				
5	8.85	31.74	24.61				
10	8.84	31.74	24.62				
15	8.40	31.78	24.71				
20	3.90	31.89	25.35				
30	3.71	31.91	25.38				
40	3.73	31.91	25.38				
50	3.69	31.91	25.38				
60	3.70	31.91	25.38				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.85	31.73	24.61	334.1	.000
10	8.84	31.74	24.62	333.4	.033
20	3.90	31.89	25.35	263.6	.053
30	3.71	31.91	25.38	260.4	.089
50	3.69	31.91	25.38	260.4	.141

## STATION 230

57-19 N 160-55 W 14 AUG 1939 1409 GCT  
 WEATHER C BAR 29.69 WIND NNW 3 SEA W 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.33	31.74	24.69				
5	8.36	31.74	24.69				
10	8.33	31.74	24.69				
15	3.97	31.92	25.37				
20	3.70	31.92	25.39				
30	3.69	31.92	25.39				
40	3.72	31.89	25.37				
50	3.67	31.92	25.39				
60	3.62	31.92	25.40				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	Δσ
0	8.33	31.74	24.69	326.0	.000
10	8.33	31.74	24.69	326.1	.033
20	3.70	31.92	25.39	259.5	.062
30	3.69	31.92	25.39	259.5	.088
50	3.67	31.92	25.39	259.4	.140

## STATION 231

57-28 N 161-03 W 14 AUG 1939 1602 GCT  
 WEATHER C BAR 29.70 WIND N 3 SEA WSW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.26	31.71	24.68				
5	8.26	31.71	24.68				
10	8.22	31.71	24.68				
15	7.03	31.74	24.87				
20	3.91	31.85	25.32				
30	3.90	31.85	25.32				
40	3.90	31.85	25.32				
50	3.88	31.85	25.32				
55	3.87	31.76	25.25				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	Δσ
0	8.26	31.71	24.68	327.2	.000
10	8.22	31.71	24.68	326.8	.033
20	3.91	31.85	25.32	266.7	.063
30	3.90	31.85	25.32	266.7	.090
50	3.88	31.85	25.32	266.6	.143

## STATION 232

57-37 N 161-10 W 14 AUG 1939 1830 GCT  
 WEATHER BC BAR 29.71 WIND N 3 SEA SW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.30	31.62	24.60				
5	8.31	31.62	24.60				
10	5.16	31.74	25.10				
15	3.85	31.82	25.30				
20	3.81	31.82	25.30				
30	3.73	31.82	25.31				
40	3.70	31.83	25.32				
50	3.66	31.83	25.32				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.30	31.62	24.60	334.5	.000
10	5.16	31.74	25.10	287.2	.031
20	3.81	31.82	25.30	268.1	.059
30	3.73	31.82	25.31	267.4	.086
50	3.66	31.83	25.32	266.1	.139

## STATION 233

57-46 N 161-20 W 14 AUG 1939 2034 GCT  
 WEATHER BC BAR 29.74 WIND W 2 SEA W 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.04	31.51	24.55				
5		31.51					
10	5.05	31.58	24.99				
15	3.88	31.65	25.16				
20	3.81	31.65	25.17				
30	3.73	31.65	25.17				
40	3.76	31.65	25.17				
44	3.72	31.67	25.19				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.04	31.51	24.55	339.1	.000
10	5.05	31.58	24.99	298.1	.032
20	3.81	31.65	25.17	280.9	.061
30	3.73	31.65	25.17	280.2	.089

## STATION 234

57-55 N 161-28 W 14 AUG 1939 2216 GCT  
 WEATHER BC BAR 29.74 WIND NW 3 SEA NW 2  
 TEMPERATURE DRY 52 WET 51 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.12	31.24	24.33				
5	8.07	31.24	24.34				
10	5.64	31.42	24.79				
15	4.60	31.53	24.99				
20	4.41	31.56	25.04				
30	4.33	31.58	25.06				
40	4.28	31.58	25.07				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.12	31.24	24.33	360.3	.000
10	5.64	31.42	24.79	316.4	.034
20	4.41	31.56	25.04	293.3	.064
30	4.33	31.58	25.06	291.0	.093

## STATION 235

58-05 N 161-37 W 15 AUG 1939 0022 GCT  
 WEATHER BC BAR 29.78 WIND NW 5 SEA NW 2  
 TEMPERATURE DRY 52 WET 51 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.53	29.29	22.60				
5	9.45	29.33	22.64				
10	5.82	29.34	23.13				
15	5.45	29.52	23.32				
20	5.25	29.58	23.39				
30	5.27	29.56	23.37				
40	5.26	29.56	23.37				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.53	29.29	22.60	525.5	.000
10	5.82	29.34	23.13	474.6	.050
20	5.25	29.58	23.39	450.7	.096
30	5.27	29.56	23.37	452.4	.141

## STATION 236

58-13 N 161-44 W 15 AUG 1939 0200 GCT  
 WEATHER BC BAR 29.79 WIND NW 5 SEA NW 2  
 TEMPERATURE DRY 53 WET 51 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.64	28.96	22.17				
5	10.59	28.96	22.18				
10	9.41	29.99	23.16				
15	6.90	30.53	23.94				
20	6.27	30.86	24.28				
30	6.02	30.93	24.36				
38	6.00	30.93	24.37				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.64	28.96	22.17	567.0	.000
10	9.41	29.99	23.16	471.8	.052
20	6.27	30.86	24.28	365.6	.094
30	6.02	30.93	24.36	357.6	.130

## STATION 237

58-23 N 161-52 W 15 AUG 1939 0358 GCT  
 WEATHER BC BAR 29.8 WIND NW 5 SEA NW 2  
 TEMPERATURE DRY 54 WET 52 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.74	29.18	22.48				
5	9.74	29.18	22.48				
10	9.11	29.42	22.77				
15	7.59	30.17	23.57				
20	7.22	30.37	23.77				
30	7.13	30.53	23.91				
38	7.07	30.53	23.92				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.74	29.18	22.48	536.8	.000
10	9.11	29.42	22.77	509.9	.052
20	7.22	30.37	23.77	413.8	.098
30	7.13	30.53	23.91	400.8	.139

## STATION 238

58-31 N 162-00 W 15 AUG 1939 0544 GCT  
 WEATHER BC BAR 29.81 WIND NW 4 SEA NW 3  
 TEMPERATURE DRY 53 WET 51 DEPTH 37

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.54	29.49	22.76				
5	9.50	29.52	22.78				
10	9.31	29.56	22.85				
15	9.10	29.61	22.92				
20	8.40	29.90	23.24				
30	8.22	29.92	23.29				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.54	29.49	22.76	510.8	.000
10	9.31	29.56	22.85	502.4	.051
20	8.40	29.90	23.24	464.3	.099
30	8.22	29.92	23.29	450.5	.145

## STATION 239

58-36 N 162-05 W 15 AUG 1939 0702 GCT  
 WEATHER BC BAR 29.81 WIND NW 5 SEA NW 3  
 TEMPERATURE DRY 52 WET 50 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.04	29.60	22.76				
5	10.04	29.60	22.76				
10	10.02	29.60	22.77				
15	10.07	29.60	22.76				
20	10.00	29.56	22.74				
30		29.58					

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.04	29.60	22.76	510.1	.000
10	10.02	29.60	22.77	510.0	.051
20	10.00	29.56	22.74	512.3	.102



## STATION 240

58-32 N 161-41 W 15 AUG 1939 0850 GCT  
 WEATHER C BAR 29.79 WIND NW 5 SEA NW 3  
 TEMPERATURE DRY 50 WET 49 DEPTH 24

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.80	29.36	22.61				
5	9.75	29.36	22.62				
10	9.60	29.42	22.69				
15	9.48	29.43	22.72				
19	9.41	29.43	22.73				

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.80	29.36	22.61	524.3	.000
10	9.60	29.42	22.69	517.0	.052

## STATION 241

58-27 N 161-35 W 15 AUG 1939 0930 GCT  
 WEATHER C BAR 29.75 WIND NW 5 SEA NW 3  
 TEMPERATURE DRY 50 WET 49 DEPTH 29

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.45	29.34	22.65				
5	9.42	29.34	22.66				
10	9.41	29.36	22.67				
15	9.46	29.34	22.65				
20	9.40	29.34	22.66				
25		29.38					

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.45	29.34	22.65	520.6	.000
10	9.41	29.36	22.67	518.7	.052
20	9.40	29.34	22.66	519.9	.104

## STATION 242

58-17 N 161-27 W 15 AUG 1939 1203 GCT  
 WEATHER C BAR 29.80 WIND NNW 5 SEA NW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 38

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.75	29.11	22.43	.571	0.60	.00	3
5	9.72	29.11	22.43	.459	0.80	.00	5
10	8.97	29.49	22.84	.580	0.45	.00	6
15	8.04	29.90	23.30	.579	0.55	.00	6
20	7.06	30.41	23.83	.577	0.60	.00	7
30	6.83	30.53	23.95	.579	0.60	.00	7
35	6.80	30.55	23.97	.582	0.55	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	9.75	29.11	22.43	542.2	.000
10	8.97	29.49	22.84	502.7	.052
20	7.06	30.41	23.83	408.8	.098
30	6.83	30.53	23.95	397.1	.138

## STATION 243

58-10 N 161-20 W 15 AUG 1939 1448 GCT  
 WEATHER C BAR 29.81 WIND NNW 5 SEA NW 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.69	29.02	22.37	.596	0.50	.00	4
5	9.79	29.09	22.41	.586	0.45	.00	4
10	8.53	29.63	23.01	.587	0.45	.00	5
15	5.83	31.06	24.49	.590	0.55	.00	6
20	5.74	31.08	24.51	.584	0.55	.00	7
30	5.75	31.08	24.51	.580	0.60	.00	8
40	5.73	31.08	24.52	.595	0.60	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	9.69	29.02	22.37	548.0	.000
10	8.53	29.63	23.01	486.1	.052
20	5.74	31.08	24.51	343.1	.093
30	5.75	31.08	24.51	343.3	.127

## STATION 244

58-03 N 161-14 W 15 AUG 1939 1542 GCT  
 WEATHER C BAR 29.80 WIND NNW 5 SEA NW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.08	29.58	22.90	.590	0.40	.00	5
5	9.03	29.58	22.90	.591	0.40	.00	5
10	8.63	29.92	23.23	.607	0.30	.00	6
15	5.26	31.44	24.85	.618	0.60	.00	6
20	5.11	31.46	24.88	.630	0.70	.00	5
30	5.18	31.47	24.88	.613	0.70	.00	8
40	5.16	31.49	24.90	.613	0.78	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	9.08	29.58	22.90	497.4	.000
10	8.63	29.92	23.23	465.9	.048
20	5.11	31.46	24.88	307.8	.087
30	5.18	31.47	24.88	307.9	.118

## STATION 245

57-55 N 161-07 W 15 AUG 1939 1737 GCT  
 WEATHER C BAR 29.79 WIND NNW 5 SEA NW 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.15	29.38	22.73	.578	0.45	.00	9
5	9.10	29.38	22.74	.603	0.55	.00	9
10	9.11	31.49	24.38	.627	0.65	.00	10
15	4.76	31.51	24.96	.626	0.75	.00	9
20	4.69	31.53	24.98	.623	0.70	.00	9
30	4.70	31.53	24.98	.629	0.70	.00	10
40	4.68	31.55	25.00	.619	0.70	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	9.15	29.38	22.73	513.3	.000
10	9.11	31.49	24.38	355.9	.043
20	4.69	31.53	24.98	298.3	.076
30	4.70	31.53	24.98	298.4	.106

## STATION 246

57-47 N 161-00 W 15 AUG 1939 1926 GCT  
 WEATHER C BAR 29.82 WIND NNW 5 SEA NW 3  
 TEMPERATURE DRY 50 WET 49 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.25	30.03	23.22	.609	0.45	.00	9
5	9.17	30.03	23.23	.602	0.45	.00	8
10	8.27	31.15	24.24	.536	0.45	.00	8
15	4.24	31.69	25.16		0.70	.00	9
20	4.04	31.71	25.19	.622	0.75	.00	10
30	4.04	31.73	25.21	.627	0.75	.00	10
40	4.00	31.71	25.20	.620	0.80	.00	10
45	4.00	31.73	25.21	.625	0.75	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.25	30.03	23.22	466.4	.000
10	8.27	31.15	24.24	369.2	.042
20	4.04	31.71	25.19	278.5	.074
30	4.04	31.73	25.21	277.0	.102

## STATION 247

57-40 N 160-53 W 15 AUG 1939 2135 GCT  
 WEATHER BC BAR 29.80 WIND NNW 4 SEA NW 4  
 TEMPERATURE DRY 52 WET 50 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.83	31.65	24.69	.671	0.35	.00	5
5	7.79	31.65	24.70	.681	0.40	.00	5
10	7.76	31.65	24.70	.683	0.40	.00	4
15	7.82	31.67	24.71	.682	0.40	.00	4
20	4.58	31.80	25.21	.589	0.65	.00	10
30	4.24	31.80	25.24	.584	0.80	.05	12
40	4.17	31.78	25.24	.581	0.85	.05	12
50	4.18	31.78	25.23	.581	0.85	.06	12
55	4.18	31.80	25.25	.581	0.85	.06	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.83	31.65	24.69	325.8	.000
10	7.76	31.65	24.70	325.0	.033
20	4.58	31.80	25.21	276.8	.063
30	4.24	31.80	25.24	273.6	.091
50	4.18	31.78	25.23	274.7	.146

## STATION 248

57-32 N 160-46 W 15 AUG 1939 2328 GCT  
 WEATHER BC BAR 29.81 WIND NNW 4 SEA NW 4  
 TEMPERATURE DRY 53 WET 51 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.32	31.71	24.67	.645	0.2	.00	4
5	8.30	31.71	24.67	.606	0.2	.00	4
10	7.39	31.71	24.80	.706	0.25	.00	6
15	4.22	31.85	25.29	.549	0.85	.00	10
20	4.17	31.85	25.29	.491	1.00	.03	10
30	4.20	31.85	25.29	.480	1.00	.04	12
40	4.16	31.85	25.29	.562	1.00	.04	12
50	4.11			.577	0.95	.04	14
60	4.08	31.85	25.30	.559	0.95	.04	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	8.32	31.71	24.67	328.1	.000
10	7.39	31.71	24.80	315.7	.032
20	4.17	31.85	25.29	269.1	.061
30	4.20	31.85	25.29	269.5	.088
50	4.11	31.85	25.30	268.7	.142

## STATION 249

57-22 N 160-38 W 16 AUG 1939 0135 GCT  
 WEATHER BC BAR 29.83 WIND NNW 4 SEA NW 2  
 TEMPERATURE DRY 54 WET 52 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.82	31.74	24.62	.687	0.25	.00	2
5	8.78	31.74	24.63	.691	0.45	.00	3
10	8.62	31.74	24.65	.588	0.20	.00	3
15	4.22	31.85	25.29	.614	1.50	.06	10
20	4.06	31.85	25.30	.614	0.95	.07	11
30	4.07	31.89	25.33	.617	1.20	.07	11
40	4.01	31.89	25.34	.615	0.90	.07	11
50	3.97	31.89	25.34	.619	0.90	.06	11
60	3.98	31.89	25.34	.617	0.90	.07	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	8.82	31.74	24.62	332.9	.000
10	8.62	31.74	24.65	330.2	.033
20	4.06	31.85	25.30	268.1	.063
30	4.07	31.89	25.33	265.2	.090
50	3.97	31.89	25.34	264.4	.143

## STATION 250

57-15 N 160-31 W 16 AUG 1939 0333 GCT  
 WEATHER BC BAR 29.81 WIND NW 4 SEA NW 2  
 TEMPERATURE DRY 52 WET 50 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.37	31.73	24.53	.608	0.35	.00	2
5	9.30	31.74	24.54	.621	0.30	.00	2
10	9.27	31.74	24.55	.625	0.35	.00	2
15	9.29	31.74	24.55	.623	0.30	.00	3
20	7.70	31.76	24.80	.617	0.45	.00	5
30	4.47	31.85	25.26	.603	1.05	.09	9
40	4.45	31.85	25.26	.596	0.95	.10	10
50	4.42	31.85	25.27	.582	1.30	.09	11
58	4.43	31.85	25.26	.597	0.95	.09	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.37	31.73	24.53	341.8	.000
10	9.27	31.74	24.55	339.7	.034
20	7.70	31.76	24.80	316.2	.067
30	4.47	31.85	25.26	272.1	.096
50	4.42	31.85	25.27	271.7	.150

## STATION 251

57-06 N 160-23 W 16 AUG 1939 0535 GCT  
 WEATHER BC BAR 29.81 WIND WNW 3 SEA NW 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.59	31.71	24.48	.613	0.00	.00	4
5	9.55			.637	0.05	.00	4
10	9.55	31.71	24.48	.638	0.10	.00	3
15	9.59	31.71	24.48	.639	0.10	.00	3
20	7.13	31.78	24.89	.588	0.30	.02	4
30	4.53	31.83	25.24	.588	0.85	.08	7
40	4.35	31.87	25.29	.589	0.85	.12	9
50	4.21	31.85	25.29	.598	0.85	.10	10
60	4.22	31.83	25.27	.595	0.85	.12	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.59	31.71	24.48	346.6	.000
10	9.55	31.71	24.48	346.2	.035
20	7.13	31.78	24.89	307.3	.068
30	4.53	31.83	25.24	274.2	.097
50	4.21	31.85	25.29	269.7	.151

## STATION 252

56-56 N 160-10 W 16 AUG 1939 0723 GCT  
 WEATHER BC BAR 29.81 WIND WNW 3 SEA NW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.60	31.71	24.47	.601	0.00	.00	2
5	9.59	31.69	24.46	.601	0.10	.00	2
10	9.56	31.67	24.45	.602	0.10	.00	2
15	9.60	31.67	24.44	.601	0.10	.00	2
20	9.42	31.65	24.46	.600	0.10	.00	2
30	5.49	31.74	25.06	.546	0.85	.07	8
40	5.28	31.78	25.12	.540	0.85	.08	9
50	5.25	31.76	25.11	.543	0.85	.07	10
57	5.25	31.76	25.11	.545	0.85	.07	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.60	31.71	24.47	346.8	.000
10	9.56	31.67	24.45	349.3	.035
20	9.42	31.65	24.46	348.8	.070
30	5.49	31.74	25.06	290.9	.102
50	5.25	31.76	25.11	287.0	.160

## STATION 253

56-47 N 160-08 W 16 AUG 1939 0925 GCT  
 WEATHER BC BAR 29.80 WIND WNW 2 SEA NW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 53

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.67	31.64	24.41	.651	0.00	.00	1
5	9.64	31.64	24.41	.652	0.00	.00	2
10	9.52	31.67	24.46	.638	0.10	.00	2
15	7.68	31.69	24.75	.638	0.35	.03	3
20	7.30	31.69	24.80	.522	0.40	.05	4
30	7.23	31.69	24.81	.517	0.35	.05	4
40	7.15	31.71	24.83	.516	0.40	.05	7
49	7.13	31.69	24.82	.513	0.45	.05	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.67	31.64	24.41	353.0	.000
10	9.52	31.67	24.46	348.7	.035
20	7.30	31.69	24.80	316.1	.068
30	7.23	31.69	24.81	315.4	.100

## STATION 254

56-47 N 160-08 W 16 AUG 1939 1440 GCT  
 WEATHER BC BAR 29.75 WIND SE 2 SEA NW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.12	31.65	24.17	.614	0.00	.00	4
5	9.57	31.65	24.43	.616	0.00	.00	4
10	9.36	31.65	24.47	.610	0.00	.00	5
15	8.08	31.67	24.67	.550	0.60	.01	5
20	7.88	31.69	24.72	.538	0.40	.01	7
30	7.77	31.69	24.73	.528	0.45	.02	7
40	7.58	31.69	24.76	.528	0.45	.03	
48	7.55	31.69	24.76	.522	0.50	.03	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.12	31.65	24.17	375.6	.000
10	9.36	31.65	24.47	347.8	.036
20	7.88	31.69	24.72	323.8	.070
30	7.77	31.69	24.73	322.5	.102

## STATION 255

56-37 N 159-56 W 16 AUG 1939 1650 GCT  
 WEATHER O F BAR 29.73 WIND SE 1 SEA NW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.04	30.99	23.67	.572	0.35	.00	8
5	10.10	31.04	23.87	.573	0.35	.00	9
10	10.05	31.08	23.91	.573	0.35	.00	9
15	9.91	31.17	24.00	.561	0.40	.00	9
20	9.71	31.24	24.09	.554	0.25	.00	9
30		31.46		.543	0.25	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	11.04	30.99	23.67	423.0	.000
10	10.05	31.08	23.91	400.6	.041
20	9.71	31.24	24.09	383.4	.080



## STATION 256

56-46 N 159-27 W 16 AUG 1939 2109 GCT  
 WEATHER BC BAR 29.71 WIND ENE 3 SEA NW 1  
 TEMPERATURE DRY 55 WET 54 DEPTH 24

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.28	30.61	23.51	.539	0.50	.05	14
5	9.87	30.86	23.77	.541	0.55	.03	12
10	9.90	30.90	23.80	.552	0.55	.02	10
15	9.87	30.95	23.84	.552	0.80	.02	10
20	9.60	31.08	23.98	.552	1.00	.02	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.28	30.61	23.51	438.9	.000
10	9.90	30.90	23.80	411.6	.043
20	9.60	31.08	23.98	393.9	.083

## STATION 257

56-56 N 159-39 W 16 AUG 1939 2311 GCT  
 WEATHER BC BAR 29.70 WIND ENE 2 SEA NW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.73	31.60	24.52	.653	0.10	.00	2
5	8.43	31.60	24.57	.663	0.10	.00	2
10	8.40	31.62	24.59	.596	0.35	.00	2
15	8.14	31.62	24.63	.545	0.35	.00	2
20	8.01	31.62	24.64	.559	0.55	.00	2
30	8.05	31.65	24.66	.551	0.55	.00	2
40	8.02	31.64	24.66	.566	0.55	.00	2
45	8.03	31.65	24.67	.563	0.60	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.73	31.60	24.52	342.1	.000
10	8.40	31.62	24.59	336.0	.034
20	8.01	31.62	24.64	330.8	.067
30	8.05	31.65	24.66	329.2	.100

## STATION 258

57-05 N 159-43 W 17 AUG 1939 0112 GCT  
 WEATHER BC BAR 29.67 WIND ESE 3 SEA SE 1  
 TEMPERATURE DRY 60 WET 56 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.93	31.67	24.39	.664	0.35	.00	1
5	9.78	31.67	24.41	.673	0.30	.00	1
10	9.39	31.65	24.46	.672	0.30	.00	2
15	8.89	31.71	24.59	.653	0.35	.00	2
20	6.75	31.74	24.91	.601	0.60	.02	4
30	6.20	31.74	24.98	.577	0.55	.04	5
40	6.14	31.73	24.98	.583	0.60	.04	5
50	6.08	31.71	24.97	.583	1.25	.05	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.93	31.67	24.39	354.8	.000
10	9.39	31.65	24.46	348.2	.035
20	6.75	31.74	24.91	305.5	.058
30	6.20	31.74	24.98	299.0	.098
50	6.08	31.71	24.97	300.0	.158

## STATION 259

57-14 N 159-50 W 17 AUG 1939 0316 GCT  
 WEATHER BC BAR 29.67 WIND ESE 3 SEA SE 1  
 TEMPERATURE DRY 56 WET 53 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.78	31.64	24.39	.688	0.20	.00	2
5	9.76	31.67	24.42	.693	0.20	.00	1
10	9.34	31.67	24.48	.678	0.20	.00	1
15	7.75	31.73	24.77	.637	0.50	.00	4
20	5.77	31.74	25.03	.604	1.00	.04	6
30	5.34	31.76	25.10	.601	1.30	.04	9
40	5.29	31.76	25.10	.600	1.30	.05	9
50	5.26	31.76	25.11	.600	1.00	.04	9
55	5.26	31.76	25.11	.602	0.95	.03	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.78	31.64	24.39	354.7	.000
10	9.34	31.67	24.48	346.0	.035
20	5.77	31.74	25.03	293.9	.067
30	5.34	31.76	25.10	287.8	.096
50	5.26	31.76	25.11	287.1	.153

## STATION 260

57-22 N 159-59 W 17 AUG 1939 0457 GCT  
 WEATHER C BAR 29.65 WIND ESE 5 SEA ESE 2  
 TEMPERATURE DRY 54 WET 52 DEPTH 59

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.47	31.67	24.46	.769	0.20	.00	2
5	9.45	31.67	24.47	.776	0.25	.00	2
10	8.28	31.69	24.66	.713	0.45	.00	2
15	5.51	31.74	25.06	.592	1.00	.04	5
20	5.37	31.74	25.08	.592	0.75	.06	5
30	5.30	31.74	25.08	.586	1.00	.06	6
40	5.28	31.74	25.09	.593	0.75	.07	6
50	5.22	31.74	25.09	.585	0.80	.07	7
55	5.18	31.74	25.10	.580	0.85	.07	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.47	31.67	24.46	347.8	.000
10	8.28	31.69	24.66	329.2	.034
20	5.37	31.74	25.08	289.5	.065
30	5.30	31.74	25.08	288.9	.094
50	5.22	31.74	25.09	288.2	.152

## STATION 261

57-32 N 160-07 W 17 AUG 1939 0637 GCT  
 WEATHER C BAR 29.63 WIND ESE 5 SEA ESE 2  
 TEMPERATURE DRY 52 WET 50 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.18	31.62	24.62	.724	0.25	.00	2
5	7.88	31.60	24.65	.717	0.40	.00	2
10	6.52	31.67	24.88	.684	0.65	.00	3
15	5.61	31.74	25.05	.585	0.90	.04	5
20	5.54			.578	0.90	.06	3
30	5.52	31.74	25.06	.574	0.75	.03	6
40	5.50	31.74	25.06	.574	0.75	.03	6
50	5.50	31.74	25.06	.577	0.75	.03	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.18	31.62	24.62	332.8	.000
10	6.52	31.67	24.88	307.8	.032
20	5.54	31.74	25.06	291.5	.062
30	5.52	31.74	25.06	291.2	.092
50	5.50	31.74	25.06	291.2	.150

## STATION 262

57-41 N 160-15 W 17 AUG 1939 0824 GCT  
 WEATHER C BAR 29.63 WIND ESE 5 SEA ESE 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.08	31.56	24.59	.636	0.45	.00	3
5	7.99	31.56	24.60	.637	0.45	.00	3
10	6.78	31.56	24.76	.635	0.60	.00	4
15	5.84	31.64	24.94	.607	0.70	.00	5
20	5.61	31.65	24.98	.600	0.70	.00	6
30	5.39	31.67	25.02	.591	0.70	.00	6
40	5.35	31.67	25.02	.589	0.70	.00	6
50	5.35	31.67	25.02	.587	0.70	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.08	31.56	24.59	335.9	.000
10	6.78	31.56	24.76	319.2	.033
20	5.61	31.65	24.98	298.9	.064
30	5.39	31.67	25.02	295.1	.094
50	5.35	31.67	25.02	294.8	.153

## STATION 263

57-49 N 160-22 W 17 AUG 1939 0958 GCT  
 WEATHER BC BAR 29.63 WIND ESE 5 SEA SE 5  
 TEMPERATURE DRY 50 WET 49 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.54	30.26	23.35	.594	0.50	.00	3
5	9.34	30.34	23.45	.599	0.50	.00	4
10	5.68	31.38	24.76	.625	0.55	.00	4
15	5.55	31.47	24.84	.616	0.65	.00	5
20	5.49	31.49	24.87	.618	0.65	.00	5
30	5.42	31.51	24.89	.613	0.70	.00	5
40	5.39	31.51	24.89	.614	0.70	.00	5
50	5.38	31.51	24.89	.611	0.70	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.54	30.26	23.35	453.6	.000
10	5.68	31.38	24.76	319.8	.039
20	5.49	31.49	24.87	309.6	.070
30	5.42	31.51	24.89	307.4	.101
50	5.38	31.51	24.89	307.2	.162

## STATION 264

57-58 N 160-31 W 17 AUG 1939 1151 GCT  
 WEATHER BC BAR 29.60 WIND E 5 SEA SE 4  
 TEMPERATURE DRY 50 WET 49 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.19	29.13	22.37	.577	0.55	.00	1
5	10.21	29.13	22.37	.583	0.55	.00	1
10	9.33	29.81	23.04	.598	0.60	.00	2
15	5.51	31.49	24.86	.624	0.55	.00	4
20	5.44	31.49	24.87	.623	0.55	.00	4
30	5.43	31.49	24.87	.626	0.75	.00	4
40	5.42	31.51	24.89	.624	0.60	.00	5
45	5.40	31.51	24.89	.625	0.55	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.19	29.13	22.37	547.4	.000
10	9.33	29.81	23.04	484.1	.052
20	5.44	31.49	24.87	309.1	.092
30	5.43	31.49	24.87	309.0	.123

## STATION 265

58-08 N 160-39 W 17 AUG 1939 1335 GCT  
 WEATHER C BAR 29.58 WIND E 5 SEA SE 4  
 TEMPERATURE DRY 52 WET 51 DEPTH 48

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.24	28.60	21.95	.575	0.45	.00	2
5	10.26	28.60	21.95	.573	0.45	.00	3
10	8.01	29.65	23.10	.600	0.50	.00	3
15	6.33	30.39	23.90	.589	0.60	.00	3
20	5.82	30.93	24.39	.601	0.85	.00	5
30	5.64	31.02	24.48	.602	0.85	.00	6
40	5.71	31.06	24.50	.604	0.55	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.24	28.60	21.95	587.5	.000
10	8.01	29.65	23.10	477.6	.053
20	5.82	30.93	24.39	355.3	.095
30	5.64	31.02	24.48	346.6	.130

## STATION 266

58-26 N 160-55 W 19 AUG 1939 0928 GCT  
 WEATHER C BAR 29.55 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 14

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.50	27.74	20.90	.525	1.15	.00	8
5	12.22	27.74	20.95	.523	1.20	.00	10
10	12.20	27.75	20.96	.524	1.10	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.50	27.74	20.90	688.2	.000
10	12.20	27.75	20.96	682.5	.069

## STATION 267

58-17 N 160-46 W 19 AUG 1939 1055 GCT  
 WEATHER C BAR 29.58 WIND SSW 2 SEA SW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.29	29.07	22.47	.571	0.70	.00	4
5	9.30	29.09	22.48	.571	0.65	.00	4
10	9.32	29.09	22.48	.568	0.75	.00	5
15	9.35	29.11	22.49	.568	0.75	.00	4
20		29.11		.544	0.65	.00	3
25		29.11		.572	0.75	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.29	29.07	22.47	538.4	.000
10	9.32	29.09	22.48	537.5	.054

## STATION 268

58-08 N 160-39 W 19 AUG 1939 1245 GCT  
 WEATHER C BAR 29.61 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.02	29.20	22.61	.582	0.70	.00	3
5	9.03	29.25	22.65	.580	0.70	.00	3
10	7.36	30.39	23.77	.598	0.80	.00	5
15	6.48	30.54	24.08	.592	0.70	.00	5
20	6.22	30.81	24.24	.588	0.75	.00	6
30	6.08	30.82	24.27	.588	0.70	.00	8
40	5.85	31.00	24.44	.593	0.85	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.02	29.20	22.61	524.9	.000
10	7.36	30.39	23.77	413.9	.047
20	6.22	30.81	24.24	368.8	.086
30	6.08	30.82	24.27	366.5	.123

## STATION 269

58-22 N 160-30 W 19 AUG 1939 1512 GCT  
 WEATHER C BAR 29.66 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.21	28.98	22.25	.558	0.75	.00	3
5	10.23			.553	0.75	.00	3
10	10.26	29.07	22.32	.554	0.80	.00	4
15	10.31	29.07	22.31	.554	0.70	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.21	28.98	22.25	558.8	.000
10	10.26	29.07	22.32	553.0	.056

## STATION 270

58-17 N 160-22 W 19 AUG 1939 1657 GCT  
 WEATHER O P BAR 29.68 WIND SW 4 SEA SW 2  
 TEMPERATURE DRY 49 WET 49 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.90	29.09	22.54	.580	0.70	.00	3
5	8.93	29.11	22.55	.581	0.55	.00	4
10	7.82	29.67	23.15	.584	0.75	.00	5
15	7.64	29.88	23.33	.580	0.75	.00	5
20	7.17	30.28	23.71	.587	0.75	.00	6
30	6.32	30.79	24.22	.587	0.75	.00	8
35	6.28	30.81	24.24	.572	0.75	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.90	29.09	22.54	531.4	.000
10	7.82	29.67	23.15	473.6	.050
20	7.17	30.28	23.71	419.9	.095
30	6.32	30.79	24.22	371.5	.135

## STATION 271

58-03 N 160-14 W 19 AUG 1939 1845 GCT  
 WEATHER O BAR 29.75 WIND SW 3 SEA SSW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.01	30.79	24.13	.593	0.60	.00	8
5	7.05	30.81	24.14	.594	0.75	.00	8
10	6.37	31.00	24.38	.600	0.70	.00	9
15	6.15	31.08	24.47	.604	0.75	.00	8
20	6.02	31.13	24.52	.604	0.70	.00	8
30	5.97	31.15	24.54	.605	0.80	.00	9
40	5.95	31.15	24.54	.608	0.75	.00	9
45	5.94	31.15	24.55	.607	0.60	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	7.01	30.79	24.13	379.5	.000
10	6.37	31.00	24.38	356.2	.037
20	6.02	31.13	24.52	342.5	.072
30	5.97	31.15	24.54	340.5	.105



## STATION 272

57-54 N 160-07 W 19 AUG 1939 2038 GCT  
 WEATHER C BAR 29.80 WIND SW 3 SEA SSW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.88	31.44	24.66	.603	0.55	.00	8
5	6.38	31.44	24.72	.600	0.55	.00	8
10	6.33	31.44	24.73	.603	0.55	.00	8
15	6.39	31.44	24.72	.602	0.55	.00	7
20	6.29	31.44	24.73	.601	0.60	.00	7
30	6.25	31.42	24.72	.601	0.65	.00	8
40	6.20	31.42	24.73	.602	0.55	.00	8
49	6.15	31.44	24.75	.600	0.65	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	6.88	31.44	24.66	329.3	.000
10	6.33	31.44	24.73	322.8	.033
20	6.29	31.44	24.73	322.4	.065
30	6.25	31.42	24.72	323.5	.097

## STATION 273

57-45 N 159-58 W 19 AUG 1939 2215 GCT  
 WEATHER C BAR 29.81 WIND SW 3 SEA SSW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.83	31.51	24.72	.601	0.55	.00	9
5	6.70	31.51	24.74	.602	0.60	.00	9
10	6.65	31.51	24.74	.596	0.60	.00	9
15	6.71	31.51	24.73		0.55	.00	9
20	6.64	31.53	24.76	.596	0.55	.00	9
30	6.66	31.53	24.76	.595	0.55	.00	8
40	6.60	31.53	24.76	.596	0.55	.00	9
48	6.61	31.53	24.76	.593	0.65	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	6.83	31.51	24.72	323.4	.000
10	6.65	31.51	24.74	321.3	.032
20	6.64	31.53	24.76	319.8	.064
30	6.66	31.53	24.76	320.2	.096

## STATION 274

57-36 N 159-50 W 20 AUG 1939 0010 GCT  
 WEATHER C Z BAR 29.84 WIND SE 2 SEA SSW 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 54

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.85	31.65	24.83	.603	0.60	.00	4
5	6.76	31.65	24.84	.607	0.55	.00	5
10	6.66	31.65	24.85		0.50	.00	4
15	6.68	31.65	24.85	.461	0.50	.00	4
20	6.64	31.65	24.85		0.55	.00	4
30	6.65	31.65	24.85	.578	0.55	.00	5
40	6.64	31.65	24.85	.594	0.60	.00	6
50	6.67	31.65	24.85		0.70	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	6.85	31.65	24.83	313.2	.000
10	6.66	31.65	24.85	311.0	.031
20	6.64	31.65	24.85	310.9	.062
30	6.65	31.65	24.85	311.1	.093
50	6.67	31.65	24.85	311.6	.155

## STATION 275

57-27 N 159-43 W 20 AUG 1939 0200 GCT  
 WEATHER C Z BAR 29.83 WIND SE 2 SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.39	31.71	24.66	.677	0.35	.00	5
5	7.98	31.69	24.70	.696	0.30	.00	5
10	6.93	31.71	24.86	.612	0.55	.00	6
15	6.93	31.71	24.86	.598	0.55	.00	6
20	6.90	31.71	24.87	.599	0.65	.00	8
30	6.88			.595	0.95	.00	8
40	6.81	31.71	24.88	.596	0.70	.00	9
50	6.84	31.71	24.87		0.75	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	8.39	31.71	24.66	329.1	.000
10	6.93	31.71	24.86	309.8	.032
20	6.90	31.71	24.87	309.6	.063
30	6.88	31.71	24.87	309.4	.094
50	6.84	31.71	24.87	309.2	.156

## STATION 276

57-18 N 159-34 W 20 AUG 1939 0156 GCT  
 WEATHER O R BAR 29.79 WIND SE 2 SEA SW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.60	31.69	24.46	.672	0.20	.00	4
5	8.88	31.69	24.57	.577	0.25	.00	4
10	6.96	31.71	24.86	.580	0.75	.00	6
15	6.78	31.71	24.88		0.70	.00	6
20	6.64			.411	0.65	.00	6
30	6.61				0.70	.00	7
40	6.57			.563	0.75	.00	7
50	6.57	31.73	24.93	.562	0.95	.00	6
55	6.48	31.74	24.94	.538	0.75	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.60	31.69	24.46	348.3	.000
10	6.96	31.71	24.86	310.2	.033
20	6.64	31.72	24.91	305.2	.064
30	6.61	31.72	24.92	304.3	.094
50	6.57	31.73	24.93	303.3	.124

## STATION 277

57-09 N 159-27 W 20 AUG 1939 0535 GCT  
 WEATHER O P BAR 29.74 WIND SE 4 SEA SE 3  
 TEMPERATURE DRY 49 WET 49 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.91	31.56	24.46		0.20	.00	3
5	8.88			.671	0.20	.00	3
10	7.63	31.64	24.71	.540	0.40	.00	4
15	7.55	31.64	24.72	.575	0.50	.02	4
20	7.43	31.64	24.74	.567	0.50	.03	5
30	7.28	31.65	24.77	.564	0.55	.04	5
40	7.31	31.69	24.80	.564	0.45	.05	5
50	7.31	31.67	24.78	.564	0.55	.04	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.91	31.56	24.46	347.6	.000
10	7.63	31.64	24.71	324.1	.034
20	7.43	31.64	24.74	321.6	.066
30	7.28	31.65	24.77	319.0	.098
50	7.31	31.67	24.78	318.2	.162

## STATION 278

57-00 N 159-19 W 20 AUG 1939 0720 GCT  
 WEATHER O R BAR 29.72 WIND SE 5 SEA SE 4  
 TEMPERATURE DRY 48 WET 48 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.22	31.31	24.22	.561	0.45	.02	8
5	9.21	31.31	24.22	.560	0.50	.02	9
10	9.20	31.33	24.24	.558	0.40	.02	9
15	9.18	31.33	24.24	.557	0.45	.02	9
20	8.79	31.44	24.39	.558	0.45	.03	9
30	8.55	31.51	24.48	.555	0.50	.03	10
35	8.49	31.53	24.50	.554	0.45	.03	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.22	31.31	24.22	370.8	.000
10	9.20	31.33	24.24	369.1	.037
20	8.79	31.44	24.39	355.1	.073
30	8.55	31.51	24.48	346.6	.108

## STATION 279

56-51 N 159-10 W 20 AUG 1939 0845 GCT  
 WEATHER O R BAR 29.61 WIND SE 6 SEA SE 6  
 TEMPERATURE DRY 48 WET 48 DEPTH 27

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.06	30.91	23.78	.549	0.50	.00	10
5	10.04	30.93	23.80	.549	0.50	.02	11
10	10.03	30.93	23.80	.547	0.60	.02	12
15	10.07	30.93	23.79	.548	0.60	.03	12
20		30.93		.549	0.55	.03	11
25		30.93		.549	0.55	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	10.06	30.91	23.78	413.2	.000
10	10.03	30.93	23.80	411.4	.041

## STATION 280

56-59 N 158-38 W 20 AUG 1939 1804 GCT  
 WEATHER C BAR 29.51 WIND S 4 SEA SE 2  
 TEMPERATURE DRY 53 WET 51 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.87	30.39	23.24	.549	1.00	.00	14
5	10.84	30.44	23.28	.550	1.20	.00	15
10	10.82	30.44	23.29	.547	1.00	.00	15
15	10.82	30.50	23.33	.549	0.95	.00	15

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.87	30.39	23.24	464.7	.000
10	10.82	30.44	23.29	460.3	.046

## STATION 281

57-08 N 158-45 W 20 AUG 1939 1941 GCT  
 WEATHER C BAR 29.60 WIND WSW 4 SEA S 2  
 TEMPERATURE DRY 57 WET 50 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.20	31.24	24.17	.570	0.60	.00	8
5	9.21	31.26	24.18	.575	0.55	.00	10
10	9.19	31.26	24.19	.572	0.55	.00	10
15	9.24	31.26	24.18	.570	0.45	.02	11
20	9.18	31.26	24.19	.566	0.50	.02	11
30		31.24		.569	0.50	.02	12
35					0.65	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.20	31.24	24.17	375.7	.000
10	9.19	31.26	24.19	374.2	.037
20	9.18	31.26	24.19	374.0	.074

## STATION 282

57-17 N 158-58 W 20 AUG 1939 2110 GCT  
 WEATHER C BAR 29.63 WIND WSW 3 SEA SW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.50	31.44	24.43	.581	0.45	.02	9
5	8.48	31.42	24.42	.580	0.50	.02	9
10	8.49	31.46	24.45	.579	0.50	.02	11
15	8.51	31.46	24.45	.575	0.35	.02	11
20	8.45	31.46	24.46	.579	0.35	.00	11
30	8.47	31.46	24.45	.579	0.35	.00	10
40	8.44	31.42	24.43	.578	0.40	.00	11
45		31.44		.578	0.40	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	8.50	31.44	24.43	350.7	.000
10	8.49	31.46	24.45	349.2	.035
20	8.45	31.46	24.46	348.8	.070
30	8.47	31.46	24.45	349.1	.105

## STATION 283

57-26 N 159-00 W 20 AUG 1939 2245 GCT  
 WEATHER C BAR 29.64 WIND WSW 2 SEA WSW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.11	31.51	24.54	.609	0.50	.00	6
5	8.06	31.51	24.55	.607	0.35	.00	7
10	8.02	31.47	24.53	.605	0.50	.00	5
15	8.03			.602	0.55	.00	3
20	7.99	31.51	24.56	.602	0.55	.00	3
30	8.00	31.51	24.56	.600	0.50	.00	5
40	7.96	31.49	24.55	.600	0.50	.00	4
45	7.97	31.49	24.55	.599	0.50	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	8.11	31.51	24.54	340.1	.000
10	8.02	31.47	24.53	342.0	.034
20	7.99	31.51	24.56	338.7	.068
30	8.00	31.51	24.56	339.0	.102

## STATION 284

57-35 N 159-09 W 21 AUG 1939 0024 GCT  
 WEATHER O C BAR 29.57 WIND WSW 3 SEA WSW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.70	31.49	24.59	.613	0.55	.00	8
5	7.68	31.47	24.57	.614	0.60	.00	8
10	7.64			.608	0.55	.00	8
15	7.66			.604	0.60	.00	8
20	7.60	31.47	24.58	.605	0.65	.00	8
30	7.59			.603	0.60	.00	9
40	7.58	31.47	24.59	.598	0.60	.00	8
45	7.55	31.46	24.58	.597	0.55	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.70	31.49	24.59	336.0	.000
10	7.64	31.47	24.58	336.7	.038
20	7.60	31.47	24.58	336.5	.067
30	7.59	31.48	24.59	335.7	.101

## STATION 285

57-44 N 159-17 W 21 AUG 1939 0206 GCT  
 WEATHER C BAR . WIND WSW 3 SEA WSW 1  
 TEMPERATURE DRY 47 WET 46 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.62	31.40	24.53	.583	0.65	.00	7
5	7.62	31.40	24.53	.583	0.70	.00	8
10	7.63	31.40	24.53	.560	0.60	.00	8
15	7.65	31.40	24.52	.579	0.75	.00	9
20	7.64	31.40	24.52	.581	0.70	.00	9
30	7.64	31.40	24.52	.576	0.75	.00	10
40	7.62	31.40	24.53	.580	0.75	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.62	31.40	24.53	341.7	.000
10	7.63	31.40	24.53	342.0	.034
20	7.64	31.40	24.52	342.2	.068
30	7.64	31.40	24.52	342.4	.102

## STATION 286

57-53 N 159-25 W 21 AUG 1939 0338 GCT  
 WEATHER C BAR 29.72 WIND WSW 4 SEA WSW 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.70	31.11	24.29	.570	0.65	.00	5
5	7.74	31.09	24.27	.563	0.65	.00	5
10	7.74	31.09	24.27	.570	0.55	.00	5
15	7.77	31.09	24.26	.563	0.65	.00	5
20	7.75	31.09	24.27	.569	0.55	.00	6
30	7.76	31.09	24.27	.563	0.65	.00	6
40	7.74	31.08	24.26	.565	0.65	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.70	31.11	24.29	364.4	.000
10	7.74	31.09	24.27	366.5	.037
20	7.75	31.09	24.27	366.8	.074
30	7.76	31.09	24.27	367.1	.111

## STATION 287

58-02 N 159-39 W 21 AUG 1939 0504 GCT  
 WEATHER C BAR 29.74 WIND WSW 4 SEA WSW 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.40	30.57	23.91	.571	0.45	.00	9
5	7.40	30.57	23.91	.574	0.45	.00	9
10	7.39	30.57	23.91	.574	0.45	.00	9
15	7.45	30.57	23.90	.576	0.50	.00	10
20	7.39	30.57	23.91	.576	0.50	.00	10
30	7.43	30.57	23.90	.573	0.55	.00	10
40	7.41	30.57	23.91	.573	0.50	.02	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.40	30.57	23.91	400.9	.000
10	7.39	30.57	23.91	400.8	.040
20	7.39	30.57	23.91	401.0	.080
30	7.43	30.57	23.90	401.6	.120



## STATION 288

58-11 N 159-49 W 21 AUG 1939 0621 GCT  
 WEATHER C BAR 29.76 WIND WSW 4 SEA WSW 2  
 TEMPERATURE DRY 47 WET 46 DEPTH 37

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.45	29.65	23.04	.582	0.45	.00	6
5	8.43	29.67	23.06	.588	0.55	.00	7
10	7.42	30.19	23.61	.584	0.55	.02	9
15	6.96	30.35	23.79	.579	0.55	.02	10
20	6.91	30.35	23.80	.576	0.55	.02	11
30	6.88	30.37	23.82	.577	0.55	.02	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.45	29.65	23.04	483.4	.000
10	7.42	30.19	23.61	429.6	.046
20	6.91	30.35	23.80	411.4	.088
30	6.88	30.37	23.82	409.7	.129

## STATION 289

58-21 N 159-55 W 21 AUG 1939 0800 GCT  
 WEATHER C BAR 29.82 WIND W 5 SEA W 2  
 TEMPERATURE DRY 49 WET 48 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.97	30.81	23.87	.582	0.55	.00	8
5	8.94	30.81	23.88	.581	0.45	.00	9
10	8.39	31.08	24.17	.582	0.40	.00	9
15	8.12	31.22	24.32	.569	0.50	.00	9
20	7.92	31.26	24.38	.567	0.50	.02	10
30	7.49	31.42	24.56	.547	0.65	.02	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.97	30.81	23.87	404.3	.000
10	8.39	31.08	24.17	376.1	.039
20	7.92	31.26	24.38	356.4	.076
30	7.49	31.42	24.56	338.9	.111

## STATION 290

58-29 N 159-57 W 21 AUG 1939 0940 GCT  
 WEATHER C BAR 29.86 WIND W 5 SEA W 4  
 TEMPERATURE DRY 49 WET 47 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.21	28.01	21.50	.564	0.40	.00	4
5	10.20	28.03	21.52	.565	0.40	.00	5
10	9.50	28.35	21.87	.549	0.45	.00	6
15	8.71	28.84	22.37	.492	0.85	.03	12
20	8.67	28.84	22.38	.492	0.75	.04	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.21	28.01	21.50	630.9	.000
10	9.50	28.35	21.87	595.2	.061
20	8.67	28.84	22.38	547.1	.118

## STATION 291

58-34 N 159-41 W 21 AUG 1939 1125 GCT  
 WEATHER C BAR 29.87 WIND W 5 SEA W 4  
 TEMPERATURE DRY 50 WET 47 DEPTH 21

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.04	28.01	21.53	.558	0.50	.00	5
5	10.03	28.01	21.53	.556	0.55	.00	6
10	10.06	28.01	21.52	.554	0.55	.00	6
15	10.09	28.01	21.52	.514	0.60	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.04	28.01	21.53	628.3	.000
10	10.06	28.01	21.52	628.8	.063

## STATION 292

58-24 N 159-34 W 21 AUG 1939 1255 GCT  
 WEATHER C BAR 29.87 WIND W 5 SEA W 4  
 TEMPERATURE DRY 51 WET 48 DEPTH 21

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.18	27.85	21.38	.564	0.60	.00	5
5	10.14	27.83	21.37	.555	0.60	.00	4
10	10.18	27.83	21.37	.574	0.60	.00	4
15	10.21	27.83	21.36	.553	0.65	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.18	27.85	21.38	642.3	.000
10	10.18	27.83	21.37	644.0	.064

## STATION 293

58-15 N 159-25 W 21 AUG 1939 1433 GCT  
 WEATHER O A BAR 29.89 WIND W 5 SEA W 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.80	28.08	21.62	.569	0.50	.00	3
5	9.80	28.08	21.62	.572	0.50	.00	3
10	9.78	28.08	21.62	.572	0.50	.00	3
15	9.81	28.08	21.62	.558	0.60	.00	3
20	9.75	28.15	21.68	.572	0.55	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.80	28.08	21.62	619.6	.000
10	9.78	28.08	21.62	619.4	.062
20	9.75	28.15	21.68	613.9	.124

## STATION 294

58-07 N 159-17 W 21 AUG 1939 1607 GCT  
 WEATHER O M BAR 29.92 WIND W 5 SEA SW 4  
 TEMPERATURE DRY 48 WET 48 DEPTH 27

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.62	29.85	23.17	.576	0.55	.00	4
5	8.61	29.87	23.19	.572	0.50	.00	5
10	8.61	29.92	23.23	.573	0.65	.00	6
15	8.62	29.92	23.23	.570	0.45	.00	6
20	8.57	29.99	23.29	.570	0.45	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.62	29.85	23.17	470.8	.000
10	8.61	29.92	23.23	465.6	.047
20	8.57	29.99	23.29	460.0	.093

## STATION 295

57-57 N 159-09 W 21 AUG 1939 1750 GCT  
 WEATHER O M BAR 29.96 WIND SW 6 SEA SW 5  
 TEMPERATURE DRY 48 WET 48 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.02	30.52	23.64	.559	0.40	.00	5
5	9.01	30.52	23.64	.558	0.40	.00	5
10	9.01	30.52	23.64	.558	0.40	.00	5
15	9.02	30.52	23.64	.554	0.45	.00	5
20	8.94	30.70	23.79	.554	0.45	.00	6
30	8.93	30.72	23.81	.553	0.45	.00	6
37	8.91	30.77	23.85	.551	0.40	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.02	30.52	23.64	426.6	.000
10	9.01	30.52	23.64	426.6	.043
20	8.94	30.70	23.79	412.3	.085
30	8.93	30.72	23.81	410.8	.126

## STATION 296

57-48 N 159-00 W 21 AUG 1939 1926 GCT  
 WEATHER O M BAR 29.99 WIND SW 6 SEA SW 5  
 TEMPERATURE DRY 48 WET 48 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.84	31.15	24.16	.551	0.45	.00	4
5	8.85	31.15	24.15	.547	0.45	.00	8
10	8.86	31.17	24.17	.552	0.45	.00	9
15	8.88	31.17	24.17	.550	0.40	.00	10
20	8.84	31.17	24.17	.549	0.45	.00	10
30	8.81	31.17	24.18	.550	0.40	.00	10
40	8.79	31.18	24.19	.550	0.40	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.84	31.15	24.16	377.1	.000
10	8.86	31.17	24.17	376.1	.038
20	8.84	31.17	24.17	375.9	.076
30	8.81	31.17	24.18	375.7	.114

## STATION 297

57-39 N 158-53 W 21 AUG 1939 2104 GCT  
 WEATHER O M BAR 30.05 WIND WSW 6 SEA SW 6  
 TEMPERATURE DRY 50 WET 49 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.96	31.18	24.16	.556	0.45	.00	8
5	8.97	31.18	24.16	.557	0.45	.00	8
10	8.90	31.20	24.19	.553	0.35	.00	9
15	8.94	31.20	24.18	.552	0.50	.00	10
20	8.91	31.20	24.18	.555	0.40	.00	9
30	8.90	31.20	24.19	.552	0.45	.00	10
39	8.88	31.20	24.19	.556	0.40	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	8.96	31.18	24.16	376.6	.000
10	8.90	31.20	24.19	374.4	.038
20	8.91	31.20	24.18	374.7	.075
30	8.90	31.20	24.19	374.7	.112

## STATION 298

57-30 N 158-45 W 21 AUG 1939 2235 GCT  
 WEATHER O M BAR 30.09 WIND WSW 6 SEA SW 6  
 TEMPERATURE DRY 50 WET 49 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.26	31.13	24.08	.575	0.20	.00	7
5	9.24	31.13	24.08	.573	0.20	.00	8
10	9.25	31.17	24.11	.573	0.45	.00	9
15	9.22	31.17	24.11	.570	0.45	.02	9
20	9.19	31.17	24.12	.570	0.40	.02	9
30	9.17	31.20	24.14	.566	0.50	.02	9
40	9.15	31.20	24.15	.568	0.45	.02	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.26	31.13	24.08	384.7	.000
10	9.25	31.17	24.11	381.8	.038
20	9.19	31.17	24.12	381.0	.076
30	9.17	31.20	24.14	378.7	.114

## STATION 299

57-22 N 158-38 W 22 AUG 1939 0018 GCT  
 WEATHER O P BAR 30.11 WIND WSW 6 SEA SW 5  
 TEMPERATURE DRY 50 WET 49 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.80	31.04	23.92	.563	0.50	.00	6
5	9.78	31.04	23.92	.560	0.50	.00	6
10	9.75	31.04	23.93	.575	0.45	.00	7
15	9.74	31.08	23.96	.568	0.55	.00	8
20	9.71	31.08	23.97	.552	0.50	.00	8
28	9.67	31.09	23.98	.566	0.45	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.80	31.04	23.92	399.6	.000
10	9.75	31.04	23.93	398.9	.040
20	9.71	31.08	23.97	395.5	.080

## STATION 300

57-13 N 158-30 W 22 AUG 1939 0114 GCT  
 WEATHER 0 BAR 30.11 WIND WSW 6 SEA SW 5  
 TEMPERATURE DRY 50 WET 50 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.72	30.41	23.28	.538	0.85	.00	13
5	10.72	30.46	23.32	.536	0.60	.00	13
10	10.73	30.46	23.32	.534	0.80	.00	15
15	10.75	30.46	23.31	.532	0.80	.00	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.72	30.41	23.28	460.7	.000
10	10.73	30.46	23.32	457.4	.046

## STATION 301

57-30 N 158-05 W 22 AUG 1939 0303 GCT  
 WEATHER O P BAR 30.11 WIND W 6 SEA W 5  
 TEMPERATURE DRY 49 WET 48 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.45	30.61	23.48	.568	0.70	.00	22
5	10.49	30.61	23.47	.569	0.55	.00	8
10	10.47	30.64	23.50	.570	0.65	.00	27
15	10.51	30.64	23.49	.563	0.60	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.45	30.61	23.48	441.6	.000
10	10.47	30.64	23.50	439.9	.044

## STATION 302

57-39 N 158-12 W 22 AUG 1939 0433 GCT  
 WEATHER 0 BAR 30.12 WIND W 5 SEA W 5  
 TEMPERATURE DRY 49 WET 48 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.71	31.06	23.95	.573	0.45	.00	4
5	9.70	31.06	23.95	.578	0.45	.00	4
10	9.67	31.06	23.96	.575	0.40	.00	6
15	9.71	31.06	23.95	.572	0.50	.00	6
20	9.70	31.02	23.92	.565	0.40	.00	7
30	9.68	31.04	23.94	.570	0.50	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.71	31.06	23.95	396.7	.000
10	9.67	31.06	23.96	396.2	.040
20	9.70	31.02	23.92	399.8	.080
30	9.68	31.04	23.94	398.2	.120

## STATION 303

57-48 N 158-19 W 22 AUG 1939 0625 GCT  
 WEATHER C BAR 30.11 WIND W 5 SEA W 5  
 TEMPERATURE DRY 49 WET 48 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.61	31.08	23.98	.446	0.55	.00	4
5	9.49	31.06	23.99	.556	0.45	.00	4
10	9.48	31.08	24.00	.544	0.55	.00	5
15	9.52	31.08	24.00	.547	0.55	.00	6
20	9.51	31.08	24.00	.547	0.50	.00	8
30	9.48	31.08	24.00	.547	0.50	.00	8
35		31.08		.548	0.55	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.61	31.08	23.98	393.7	.000
10	9.48	31.08	24.00	391.9	.039
20	9.51	31.08	24.00	392.0	.078
30	9.48	31.08	24.00	391.9	.117



## STATION 304

57-56 N 158-28 W 22 AUG 1939 0802 GCT  
 WEATHER C BAR 30.12 WIND W 5 SEA W 4  
 TEMPERATURE DRY 48 WET 47 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.94	30.86	23.76	.546	0.50	.00	3
5	9.94	30.86	23.76	.546	0.60	.00	3
10	9.95	30.86	23.76	.548	0.65	.00	3
15	10.01	30.86	23.75	.545	0.55	.00	3
20		30.86		.552	0.65	.00	3
30	9.97	30.86	23.75	.552	0.55	.00	3
36	9.93	30.86	23.76	.547	0.55	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.94	30.86	23.76	415.1	.000
10	9.95	30.86	23.76	415.4	.042
20	10.01	30.86	23.75	416.5	.084
30	9.97	30.86	23.75	416.0	.126

## STATION 305

58-05 N 158-35 W 22 AUG 1939 0945 GCT  
 WEATHER C BAR 30.13 WIND W 5 SEA W 4  
 TEMPERATURE DRY 47 WET 46 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.65	27.36	20.93	.577	0.45	.00	6
5	10.65	27.86	21.31	.570	0.45	.00	16
10	10.19	29.76	22.86	.538	0.50	.00	27
15	10.21	29.76	22.86	.532	0.50	.00	26
20	10.19	29.92	22.99	.552	0.60	.00	22
30	10.18	29.92	22.99	.550	0.55	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.65	27.36	20.93	686.0	.000
10	10.19	29.76	22.86	500.7	.059
20	10.19	29.92	22.99	489.0	.108
30	10.18	29.92	22.99	489.0	.157

## STATION 306

58-13 N 158-42 W 22 AUG 1939 1145 GCT  
 WEATHER C BAR 30.12 WIND W 4 SEA W 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 29

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.84	26.55	20.27	.571	0.45	.00	1
5	10.84	26.55	20.27	.569	0.55	.00	2
10	10.70	27.18	20.78	.571	0.55	.00	2
15	10.70	27.38	20.93	.568	0.55	.00	2
20	10.63	27.50	21.04	.565	0.45	.00	2
29	10.59	27.65	21.16	.570	0.50	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.84	26.55	20.27	749.1	.000
10	10.70	27.18	20.78	700.2	.072
20	10.63	27.50	21.04	675.5	.141

## STATION 307

57-44 N 157-48 W 22 AUG 1939 1755 GCT  
 WEATHER BC BAR 30.13 WIND W 4 SEA SW 4  
 TEMPERATURE DRY 51 WET 49 DEPTH 12

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.20	28.19	21.48	.513	1.80	.40	3
5	11.11	28.30	21.58	.502	1.80	.40	3
8	11.15	28.30	21.57	.494	1.80	.35	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.20	28.19	21.48	633.1	.000

## STATION 308

57-54 N 157-47 W 22 AUG 1939 1931 GCT  
 WEATHER BC BAR 30.14 WIND W 4 SEA SW 4  
 TEMPERATURE DRY 50 WET 49 DEPTH 15

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.25	29.22	22.27	.553	0.80	.00	3
5	11.26	29.22	22.27	.549	0.80	.00	3
10	11.20			.552	0.75	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.25	29.22	22.27	557.5	.000
10	11.20	29.22	22.28	556.3	.056

## STATION 309

58-04 N 157-45 W 22 AUG 1939 2103 GCT  
 WEATHER BC BAR 30.14 WIND W 4 SEA SW 4  
 TEMPERATURE DRY 50 WET 49 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.69	28.60	21.71	.533	1.00	.00	5
5	11.71	28.60	21.71	.514	1.00	.00	5
10	11.63	28.60	21.72	.532	1.20	.00	6
15	11.63	28.60	21.72	.528	1.20	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.69	28.60	21.71	610.8	.000
10	11.63	28.60	21.72	609.9	.061

## STATION 310

58-14 N 157-44 W 22 AUG 1939 2247 GCT  
 WEATHER BC BAR 30.11 WIND W 3 SEA SW 3  
 TEMPERATURE DRY 51 WET 50 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.87	28.39	21.52	.520	1.30	.03	10
5	11.90	28.39	21.51	.529	1.50	.03	10
10	11.78	28.49	21.61	.493	1.30	.04	11
15	11.74	28.59	21.69	.451	1.40	.05	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.87	28.39	21.52	629.3	.000
10	11.78	28.49	21.61	620.6	.062

## STATION 311

58-22 N 157-43 W 23 AUG 1939 0019 GCT  
 WEATHER C BAR 30.10 WIND W 4 SEA SW 4  
 TEMPERATURE DRY 52 WET 50 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.14	23.46	17.67	.577	1.20	.00	10
5	12.17	23.48	17.68	.584	0.95	.00	11
10	12.09	23.62	17.80	.572	0.90	.03	11
15	12.06	23.77	17.92	.578	0.95	.04	14
20	12.11	23.89	18.00	.569	1.05	.04	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.14	23.46	17.67	999.7	.000
10	12.09	23.62	17.80	987.1	.099
20	12.11	23.89	18.00	967.4	.197

## STATION 312

58-20 N 158-03 W 23 AUG 1939 0202 GCT  
 WEATHER C BAR 30.07 WIND W 5 SEA W 4  
 TEMPERATURE DRY 51 WET 49 DEPTH 22

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.24	21.40	16.06	.572	1.10	.02	12
5	12.24	21.44	16.09	.580	1.25	.02	13
10	11.99	22.65	17.07	.537	0.90	.00	12
15	11.95	22.88	17.25	.561	0.90	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.24	21.40	16.06	154.8	.000
10	11.99	22.65	17.07	057.7	.111

## STATION 313

58-23 N 158-18 W 23 AUG 1939 0330 GCT  
 WEATHER C BAR 30.49 WIND W 5 SEA W 4  
 TEMPERATURE DRY 50 WET 49 DEPTH 20

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.84	22.90	17.29	.576	0.95	.05	12
5	11.89	22.90	17.28	.570	1.10	.05	13
10	11.77	23.19	17.52	.577	1.10	.03	13
15	11.75	23.26	17.58	.568	1.10	.03	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.84	22.90	17.29	036.6	.000
10	11.77	23.19	17.52	013.9	.103

## STATION 314

58-28 N 158-35 W 23 AUG 1939 0510 GCT  
 WEATHER BC BAR 30.03 WIND W 5 SEA W 4  
 TEMPERATURE DRY 52 WET 50 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.15	27.05	20.60	.577	0.60	.00	2
5	11.20	27.05	20.60	.578	0.65	.00	3
10	11.13	27.07	20.62	.574	0.55	.00	3
15	11.15	27.07	20.62	.575	0.65	.00	3
20	11.18	27.07	20.61	.574	0.70	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.15	27.05	20.60	716.9	.000
10	11.13	27.07	20.62	715.2	.072
20	11.18	27.07	20.61	716.1	.144

## STATION 315

58-19 N 158-27 W 23 AUG 1939 0640 GCT  
 WEATHER C BAR 30.04 WIND W 5 SEA W 4  
 TEMPERATURE DRY 51 WET 50 DEPTH 24

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.80	27.01	20.63	.583	0.70	.00	3
5	10.81	27.05	20.66	.582	0.55	.00	3
10	10.72	27.05	20.67	.581	0.70	.00	3
15	10.75	27.05	20.67	.583	0.70	.00	3
20	10.75	27.16	20.76	.599	0.50	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.80	27.01	20.63	714.3	.000
10	10.72	27.05	20.67	710.2	.071
20	10.75	27.16	20.76	702.6	.142

## STATION 316

58-10 N 158-18 W 23 AUG 1939 0815 GCT  
 WEATHER C BAR 30.05 WIND W 6 SEA W 5  
 TEMPERATURE DRY 50 WET 49 DEPTH

NO DATA

## STATION 317

54-03 N 166-41 W 28 AUG 1939 2045 GCT  
 WEATHER O BAR 29.87 WIND E 4 SEA WNW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 777

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.19	32.86	25.73	.630	1.35	.22	25
5	7.26	32.88	25.74	.633	1.30	.27	25
10	7.45	32.97	25.78	.602	1.40	.28	24
15	7.26	32.97	25.81	.596	1.40	.17	25
20	7.13	32.97	25.83	.572	1.50	.18	24
30		32.97		.559			
40	6.32	32.94	25.91	.536	1.55	.19	30
50	6.16	32.97	25.95	.514	1.55	.19	38
50	5.79	32.94	25.97	.492	1.60	.16	33
60	5.85	32.94	25.97	.489	1.55	.19	31
70	5.62	32.97	26.02	.468	1.60	.17	34
80	5.52	33.01	26.06	.457	1.70	.21	33
90	5.49	33.03	26.08	.452	1.75	.23	35
100	5.38	33.06	26.12	.436	1.75	.16	33
115	5.31	33.08	26.14	.422	1.80	.16	35

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.19	32.86	25.73	227.1	.000
10	7.45	32.97	25.78	222.5	.022
20	7.13	32.97	25.83	219.4	.044
30	6.72	32.97	25.88	213.0	.065
50	6.16	32.97	25.95	206.7	.108
75	5.56	32.99	26.04	199.4	.159
100	5.38	33.06	26.12	191.4	.208

## STATION 318

54-19 N 167-03 W 29 AUG 1939 0050 GCT  
 WEATHER O D BAR 29.84 WIND SSE 3 SEA WNW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 686

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.29	32.63	25.39	.618	0.45	.06	6
5	8.29	32.63	25.39	.616	0.45	.07	6
10	8.07	32.63	25.43	.464	0.50	.16	7
15	7.88	32.65	25.47	.606	0.75	.24	6
20	6.82	32.83	25.76	.549	1.20	.23	14
30	5.90	33.08	26.07	.476	1.22	.24	26
40	5.49	33.06	26.11	.465	1.40	.24	31
50	5.49	33.08	26.12	.466	2.05	.29	29
60	5.06	33.19	26.26	.444	2.10	.39	30
70	4.98	33.21	26.28	.452	2.10	.36	33
80	4.85	33.30	26.37	.425	2.05	.34	37
90		33.30		.424	2.10	.36	37
100	4.52	33.30	26.40	.432	2.15	.18	39
115	4.39	33.30	26.42	.415	2.15	.36	39

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.29	32.63	25.39	259.2	.000
10	8.07	32.63	25.43	256.2	.026
20	6.82	32.83	25.76	224.9	.050
30	5.90	33.08	26.07	195.1	.071
50	5.49	33.08	26.12	190.6	.110
75	4.92	33.27	26.34	170.4	.155
100	4.52	33.30	26.40	164.1	.197



## STATION 319

54-35 N 167-25 W 29 AUG 1939 0406 GCT  
 WEATHER O D F BAR 29.81 WIND S 4 SEA SW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 765

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.98				0.95	.06	13
5	7.97	32.66	25.46	.638	0.95	.07	11
10	6.88	32.65	25.61	.614	2.10	.07	26
15	6.52	32.66	25.66	.593	1.75	.08	26
20	6.52	32.66	25.66	.586	1.70	.34	31
30	6.43	32.72	25.72	.568	1.70	.33	33
40	6.47	32.79	25.77	.570	1.45	.36	34
50	6.45	32.84	25.81	.569	1.60	.27	31
60	6.32	32.88	25.86	.547	1.60	.26	32
70	6.37	32.90	25.87	.539	1.65	.24	33
85	5.95	33.04	26.03	.497	1.70	.25	35
100	5.68	33.15	26.15	.473	1.75	.33	35
115	5.36	33.19	26.22	.451	2.10	.35	37

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.98	32.66	25.46	253.0	.000
10	6.88	32.65	25.61	239.0	.016
20	6.52	32.66	25.66	233.9	.040
30	6.43	32.72	25.72	228.4	.063
50	6.45	32.84	25.81	219.9	.108
75	6.21	32.95	25.93	209.1	.162
100	5.68	33.15	26.15	188.1	.212

## STATION 320

54-52 N 167-46 W 29 AUG 1939 0730 GCT  
 WEATHER O F BAR 29.78 WIND SSW 3 SEA SW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 1323

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.78	32.84	25.48	.620	0.60		5
5	8.98	32.84	25.45	.595	0.70		4
10	8.70	32.84	25.50	.618	0.60		5
15	7.83	32.88	25.66	.630	0.80		13
20	7.73	32.97	25.74	.637	0.90		18
30	6.97	33.03	25.89	.584	1.30		34
40	5.88	33.06	26.06	.502	3.60		35
50	5.30	33.13	26.18	.472	4.00		38
60	5.10	33.15	26.22	.461	3.50		37
70	4.76	33.22	26.31	.438	4.10		39
85	4.59	33.26	26.36	.429	4.20		39
100	4.41	33.30	26.42	.426	4.50		41
115	4.17	33.33	26.46	.429	4.60		42

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	8.78	32.84	25.48	250.6	.000
10	8.70	32.84	25.50	249.6	.025
20	7.73	32.97	25.74	226.4	.049
30	6.97	33.03	25.89	212.0	.071
50	5.30	33.13	26.18	184.8	.111
75	4.70	33.23	26.33	171.0	.155
100	4.41	33.30	26.42	163.0	.197

## STATION 321

55-08 N 168-08 W 29 AUG 1939 1026 GCT  
 WEATHER O F RAR 29.77 WIND SW 4 SEA SW 2  
 TEMPERATURE DRY 50 WET 50 DEPTH 1189

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.34	32.84	25.40	.586	0.80	.45	5
5	9.45	32.84	25.38	.595	0.75	.46	5
10	9.32	32.84	25.40	.598	0.80	.52	6
15	9.12	32.90	25.48	.607	0.75	.55	8
20	8.68	32.90	25.55	.615	1.40	.53	10
30	7.34	32.92	25.76	.566	1.70	.55	18
40	6.27	32.12	26.06	.519	3.20	.55	32
50	5.34	33.21	26.24	.519	3.20	.60	38
60	4.89	33.26	26.32	.488	3.90	.60	40
70	4.70	33.28	26.37	.400	5.30	.60	45
85	4.27	33.28	26.41	.376	5.40	.60	45
100	4.27	33.28	26.41	.394	6.20	.60	47
115	3.94	33.33	26.49	.467	8.00	.60	48

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.34	32.84	25.40	259.0	.000
10	9.32	32.84	25.40	258.8	.026
20	8.68	32.90	25.55	245.0	.051
30	7.34	32.92	25.76	225.0	.075
50	5.34	33.21	26.24	179.2	.115
75	4.51	33.28	26.39	165.3	.158
100	4.27	33.28	26.41	163.1	.199

## STATION 322

55-24 N 168-28 W 29 AUG 1939 1256 GCT  
 WEATHER O D BAR 29.74 WIND SW 3 SEA SW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 786

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.86	32.83	25.46	.594	0.60	.19	5
5	8.87	32.84	25.47	.604	0.55	.19	5
10	8.83	32.84	25.48	.607	0.55	.19	6
15	8.84	32.84	25.48	.606	0.60	.18	6
20	8.70	32.86	25.51	.606	0.70	.18	8
30	7.16	32.97	25.82	.551	3.90	.30	16
40	5.57	33.08	26.11	.489	3.00	.48	30
50	5.02	33.12	26.21	.462	4.50	.39	40
60	4.82	33.17	26.27	.449	3.90	.38	41
70	4.61	33.21	26.32	.424	5.40	.31	44
85	4.54	33.26	26.37	.411	4.00	.32	48
100	4.36	33.28	26.40	.434	5.40	.21	48
115	4.36	33.35	26.46	.394	5.50	.00	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.86	32.83	25.46	252.5	.000
10	8.83	32.84	25.48	251.5	.025
20	8.70	32.86	25.51	248.3	.050
30	7.16	32.97	25.82	219.0	.073
50	5.02	33.12	26.21	182.5	.113
75	4.60	33.23	26.34	170.0	.157
100	4.36	33.28	26.40	164.0	.199

## STATION 323

55-40 N 168-50 W 29 AUG 1939 1602 GCT  
 WEATHER O R BAR 29.71 WIND SW 3 SEA SW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 355

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.82	32.27	25.03	.574	0.65	.06	8
5	8.84	32.25	25.01	.592	0.60	.07	8
10	8.74	32.32	25.08	.592	0.40	.07	8
15	8.16	32.38	25.22	.559	0.90	.17	12
20	7.83	32.48	25.34	.570	0.80	.22	12
30	6.87	32.59	25.56	.528	1.05	.37	18
40	5.32	32.74	25.87	.505	1.60	.60	22
50	5.30	32.79	25.91	.374	1.70	.52	24
60	4.71	32.90	26.07	.410	1.90	.43	38
70	4.37	32.97	26.16	.338	1.90	.33	44
85	4.24	33.01	26.20	.392	1.70	.27	44
100	3.98	33.04	26.25	.254	2.40	.22	45
115	4.06	33.22	26.39	.345	2.40	.21	45

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	8.82	32.27	25.03	293.5	.000
10	8.74	32.32	25.08	288.8	.029
20	7.83	32.48	25.34	264.3	.057
30	6.87	32.59	25.56	243.6	.082
50	5.30	32.79	25.91	210.3	.127
75	4.34	32.98	26.17	186.1	.177
100	3.98	33.04	26.25	178.2	.223

## STATION 324

55-56 N 169-12 W 29 AUG 1939 1920 GCT  
 WEATHER O R BAR 29.69 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 913

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.97	32.32	25.05		0.40	.07	9
5	8.99	32.41	25.12		0.60	.04	9
10	8.91	32.41	25.13	.531	0.55	.07	10
15	8.84	32.43	25.15	.533	0.60	.08	10
20	8.62	32.43	25.19	.529	1.10	.09	10
30	5.55	32.70	25.81	.372	1.50	.33	28
40	4.77	32.81	25.99	.469	1.60	.21	30
50	4.55	32.83	26.03	.465	1.50	.26	32
60	4.21	32.94	26.15	.456	1.90	.39	35
70	4.17	32.95	26.16	.448	1.90	.13	36
85	4.14	32.99	26.20	.443	1.90	.03	37
100	4.17	33.06	26.25	.437	2.00	.00	37
115	4.12	33.12	26.30	.426	2.00	.00	37

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.97	32.32	25.05	292.0	.000
10	8.91	32.41	25.13	284.6	.029
20	8.62	32.43	25.19	279.1	.057
30	5.55	32.70	25.81	219.6	.082
50	4.55	32.83	26.03	199.3	.124
75	4.15	32.96	26.17	185.7	.172
100	4.17	33.06	26.25	178.6	.218

## STATION 325

56-12 N 169-33 W 29 AUG 1939 2230 GCT  
 WEATHER O R BAR 29.68 WIND SW 2 SEA SW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 155

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.32	31.98	24.73	.522	0.60	.00	15
5	9.31	31.98	24.73	.526	0.55	.00	14
10	9.25	32.00	24.76	.524	0.60	.00	15
15	9.20	32.00	24.76	.527	0.55	.00	16
20		32.00		.523	0.60	.00	15
30	9.16	32.01	24.78	.526	0.70	.00	14
40	5.77	32.12	25.33	.538	1.10	.00	16
50	3.90	32.20	25.59	.534	1.40	.53	18
60	3.70	32.29	25.60	.518	1.90	.48	18
70	3.62	32.41	25.79	.502	1.80	.30	27
85	3.67	32.63	25.96	.405	2.40	.00	48
100	3.71	32.65	25.97	.400	2.40	.00	48
115	3.75	32.70	26.01	.391	2.50	.00	46

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.32	31.98	24.73	322.5	.000
10	9.25	32.00	24.76	320.1	.032
20	9.18	32.00	24.77	318.9	.064
30	9.16	32.01	24.78	318.4	.096
50	3.90	32.20	25.59	240.4	.152
75	3.64	32.51	25.87	214.8	.209
100	3.71	32.65	25.97	205.0	.261

## STATION 326

56-27 N 169-53 W 30 AUG 1939 0216 GCT  
 WEATHER O F BAR 29.65 WIND WSW 2 SEA WSW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 91

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.69	32.14	25.23	.620	1.10	.31	14
5	6.67	32.16	25.25	.575	1.50	.34	15
10	6.36	32.18	25.31	.562	1.20	.33	14
15	6.10	32.20	25.35	.555	2.40	.35	12
20	6.28	32.20	25.33	.514	1.50	.34	15
30	6.14	32.20	25.35	.524	1.30	.35	16
40	5.76	32.21	25.40	.470	1.50	.37	17
50	5.22	32.21	25.46	.488	1.50	.38	20
60	4.51	32.29	25.61	.479	2.10	.36	30
70	4.15	32.29	25.64	.468	1.90	.34	31
85	4.14	32.32	25.67	.460	2.00	.35	31

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.69	32.14	25.23	274.6	.000
10	6.36	32.18	25.31	267.7	.027
20	6.28	32.20	25.33	265.4	.054
30	6.14	32.20	25.35	263.8	.080
50	5.22	32.21	25.46	252.9	.132
75	4.08	32.30	25.66	234.7	.193

## STATION 327

57-20 N 170-02 W 31 AUG 1939 0608 GCT  
 WEATHER O F BAR 29.60 WIND WSW 3 SEA WSW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.52	32.14	25.12	.603	1.1	.07	8
5	7.56	32.14	25.12	.609	1.1	.07	9
10	7.51	32.14	25.12	.604	1.2	.08	9
20	7.41	32.14	25.14	.598	1.0	.08	10
30	7.35	32.16	25.16	.592	1.2	.08	12
40	7.04	32.18	25.22	.579	1.4	.24	14
50	6.14	32.20	25.35	.547	1.7	.28	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.52	32.14	25.12	285.2	.000
10	7.51	32.14	25.12	285.2	.029
20	7.41	32.14	25.14	284.0	.057
30	7.35	32.16	25.16	281.9	.085
50	6.14	32.20	25.35	264.1	.140



## STATION 328

57-38 N 169-48 W 31 AUG 1939 0858 GCT  
 WEATHER O F PAR 29.56 WIND WSW 2 SEA WSW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 72

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.43	32.07	24.94	.613	0.45	.00	4
5	8.41	32.12	24.98	.549	0.45	.00	4
10	8.36	32.16	25.02	.625	0.50	.00	4
15	8.29	32.16	25.03	.516	0.50	.00	5
20	8.19	32.18	25.06	.611	0.55	.00	6
30	3.01	32.12	25.61	.524	1.90	.47	30
40	2.92	32.10	25.60	.554	2.00	.48	33
50	3.00	32.12	25.61	.549	2.00	.50	30
60	3.08	32.14	25.62	.551	2.20	.52	31
65	3.02	32.12	25.61	.551	2.10	.52	31

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.43	32.07	24.94	302.8	.000
10	8.36	32.16	25.02	295.3	.030
20	8.19	32.18	25.06	291.6	.059
30	3.01	32.12	25.61	238.6	.086
50	3.00	32.12	25.61	238.6	.134

## STATION 329

57-57 N 169-34 W 31 AUG 1939 1225 GCT  
 WEATHER C BAR 29.72 WIND SE 2 SEA NNW 5  
 TEMPERATURE DRY 48 WET 47 DEPTH 71

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.71	31.89	24.75	.521	0.30	.00	2
5	8.76	31.91	24.75	.494	0.30	.00	2
10	8.78	31.91	24.76	.536	0.40	.00	2
15	8.76	31.91	24.76	.510	0.30	.00	2
20	7.57	31.91	24.93	.533	0.60	.09	4
30	2.07	31.98	25.57	.451	2.00	.80	26
40	2.11	31.98	25.57	.518	2.00	.90	10
50	2.25	32.01	25.58	.486	2.00	.90	26
60	2.25	32.01	25.58	.521	2.00	.90	24
65	2.26	32.03	25.60	.492	2.00	.90	29

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.71	31.89	24.75	320.0	.000
10	8.78	31.91	24.76	319.9	.032
20	7.57	31.91	24.93	303.3	.063
30	2.07	31.98	25.57	242.1	.090
50	2.25	32.01	25.58	241.1	.138

## STATION 330

58-14 N 169-18 W 31 AUG 1939 1553 GCT  
 WEATHER O R BAR 29.62 WIND ESE 3 SEA NW 5  
 TEMPERATURE DRY 47 WET 47 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.60	31.65	24.58	.544	0.30	.00	0
5	8.65	31.65	24.57	.551	0.30	.00	0
10	8.60	31.65	24.58	.551	0.25	.00	0
15	8.60	31.65	24.58	.558	0.25	.00	0
20	8.49	31.65	24.60	.552	0.30	.00	0
30	1.65	31.92	25.56	.519	1.90	.38	29
40	1.64	31.91	25.55	.516	2.00	.39	33
50	1.65	31.91	25.55	.517	2.20	.37	31
60	1.63	31.91	25.55	.519	2.10	.42	34
65	1.63	31.92	25.56	.515	2.00	.39	33

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.60	31.65	24.58	336.5	.000
10	8.60	31.65	24.58	336.6	.034
20	8.49	31.65	24.60	335.2	.068
30	1.65	31.92	25.56	243.9	.097
50	1.65	31.91	25.55	244.6	.146

## STATION 331

58-33 N 169-02 W 31 AUG 1939 1820 GCT  
 WEATHER O R BAR 29.59 WIND E 4 SEA N 5  
 TEMPERATURE DRY 48 WET 48 DEPTH 68

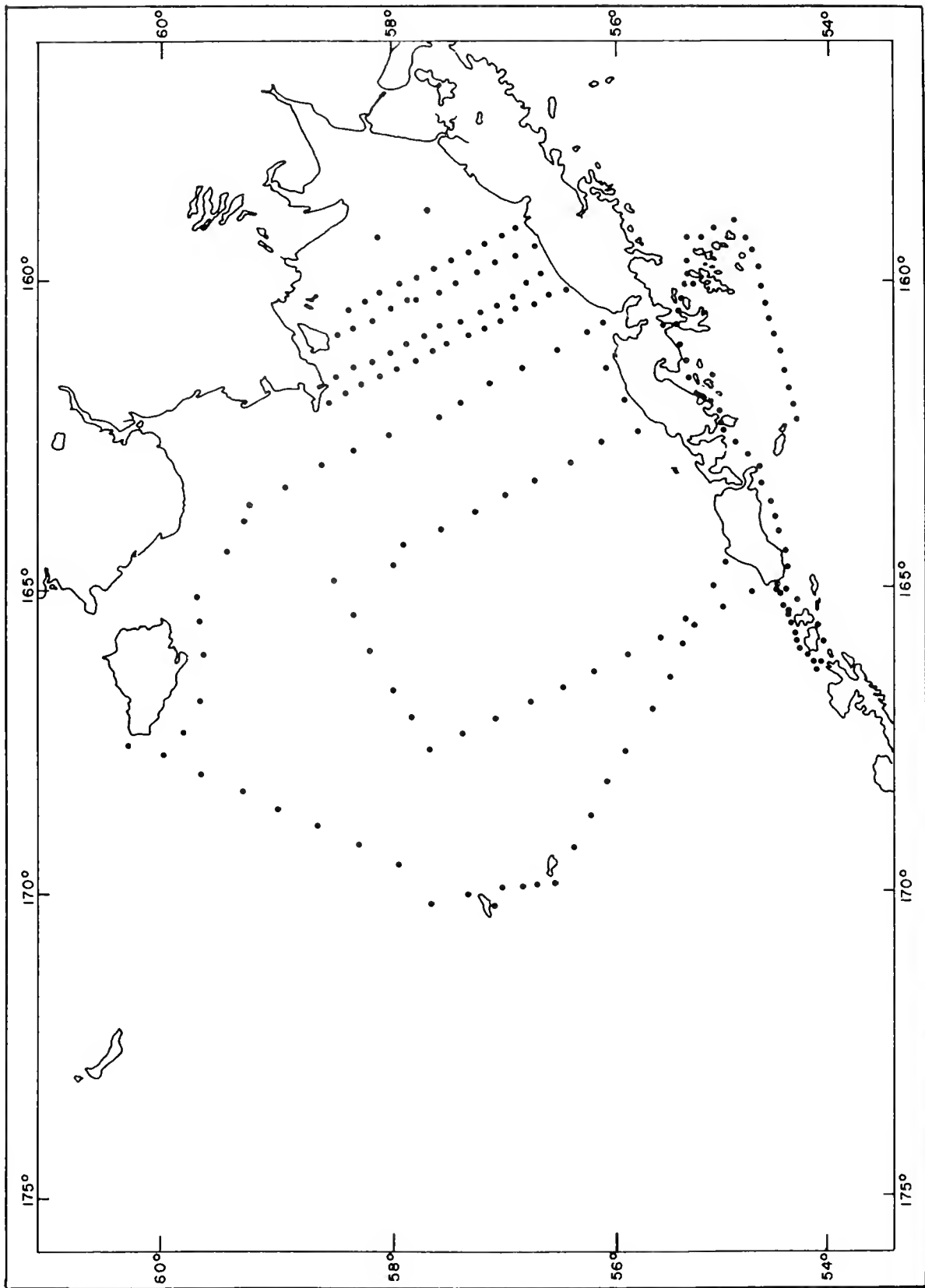
## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.40	31.51	24.50	.549	0.40	.00	2
5	8.43	31.51	24.50	.545	0.40	.00	2
10	8.40	31.51	24.50	.542	0.30	.00	2
15	8.40	31.46	24.46		0.35	.00	2
20	8.34			.542	0.30	.00	2
30	1.64	31.65	25.34	.548	1.80	.27	25
40	1.54	31.71	25.39	.539	1.80	.30	25
60	1.52	31.73	25.41	.537	1.90	.29	29

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.40	31.51	24.50	344.1	.000
10	8.40	31.51	24.50	344.2	.034
20	8.34	31.53	24.53	341.4	.068
30	1.64	31.65	25.34	264.3	.095
50	1.42	31.74	25.43	256.1	.147

## **STATION DATA, 1940**



## STATION 1

54-57 N 164-38 W 12 JUL 1940 1950 GCT  
 WEATHER 0 PAR 29.79 WIND WSW 4 SEA WSW 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 62.5

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.97	31.73	24.74	.592		.06	
5	7.99	31.76	24.76	.591	0.8	.05	
10	8.02	31.76	24.75	.594	0.8	.05	
15	7.97	31.78	24.78	.580		.06	
20	7.96	31.73	24.74	.580			5
30	7.89	31.73	24.75	.580	0.8	.06	5
40	7.80	31.78	24.80	.572	0.8		8
50	7.53	31.85	24.89	.570	0.8	.13	10
55	7.51	31.87	24.91	.568	0.8	.12	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.97	31.73	24.74	321.8	.000
10	8.02	31.76	24.75	320.4	.032
20	7.96	31.73	24.74	321.9	.064
30	7.89	31.73	24.75	321.1	.096
50	7.53	31.85	24.89	307.6	.159

STATION 2

55-09 N 165-03 W 13 JUL 1940 0035 GCT  
 WEATHER BC BAR 29.83 WIND SSW 5 SEA SW 4  
 TEMPERATURE DRY 50 WET 48 DEPTH 110

OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.88	31.96	24.93	.578	0.8	.14	0
5	7.88	31.98	24.94	.581	0.8	.13	2
10	7.77	31.98	24.96	.572	0.8	.12	12
15	7.68	31.98	24.97	.579	0.8	.13	12
20	7.67	31.98	24.97	.575	0.8	.13	12
30	7.51	32.03	25.04	.571	0.8	.13	12
40	7.49	32.07	25.07	.571		.14	12
50	7.42	32.12	25.12	.577		.15	12
75	7.24	32.32	25.30	.584		.15	12
100	5.78	32.63	25.73	.514	1.0	.22	12

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	7.88	31.96	24.93	303.4	.000
10	7.77	31.98	24.96	300.6	.030
20	7.67	31.98	24.97	299.4	.060
30	7.51	32.03	25.04	293.6	.090
50	7.42	32.12	25.12	286.0	.148
75	7.24	32.32	25.30	269.1	.217
100	5.78	32.63	25.73	228.2	.279



## STATION 3

55-20 N 165-35 W 13 JUL 1940 0510 GCT  
 WEATHER BC BAR 29.89 WIND WSW 5 SEA WSW 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 120

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.58	31.85	24.74	.603	0.5	.05	
5	8.57	31.89	24.77	.599	0.5	.05	4
10	8.61	31.92	24.79	.600	0.3	.06	10
20	8.45	31.94	24.83	.605	0.8	.06	9
30	8.36	31.94	24.84	.591	0.8	.06	3
40	6.72	32.01	25.13	.553	0.8	.06	12
50	6.56	32.12	25.23	.557	0.8	.08	16
75	6.04	32.39	25.51	.544	0.9	.10	24
100	5.02	32.63	25.82	.484	1.0	.11	32
105	4.87	32.68	25.88	.462	1.2	.12	36

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.58	31.85	24.74	321.3	.000
10	8.61	31.92	24.79	316.7	.032
20	8.45	31.94	24.83	313.1	.063
30	8.36	31.94	24.84	312.0	.094
50	6.56	32.12	25.23	275.1	.153
75	6.04	32.39	25.51	248.9	.219
100	5.02	32.63	25.82	219.7	.278

## STATION 4

55-21 N 165-58 W 13 JUL 1940 1015 GCT  
 WEATHER BC BAR 29.98 WIND SW 5 SEA WSW 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 124

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	8.62	32.05	24.89	.603	0.0	.00	
5	8.61	32.07	24.91	.601	0.2	.00	5
10	8.63	32.05	24.89	.641	0.3	.00	12
20	8.63	32.03	24.87	.623	0.3	.00	4
30	8.04	32.09	25.01	.610	0.5	.02	8
40	7.64	32.20	25.15	.605	0.6	.08	16
50	6.67	32.29	25.35	.568	0.8	.19	20
70	5.54	32.43	25.60	.529	0.9	.25	20
90	5.24	32.63	25.79	.499	1.0	.20	28
110	4.72	32.77	25.96	.458	1.2	.15	40

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.62	32.05	24.89	307.0	.000
10	8.63	32.05	24.89	307.3	.031
20	8.63	32.03	24.87	309.0	.062
30	8.04	32.09	25.01	296.3	.092
50	6.67	32.29	25.35	263.7	.148
75	5.47	32.49	25.66	234.9	.210
100	4.99	32.69	25.87	214.9	.266

## STATION 5

55-29 N 166-30 W 13 JUL 1940 1623 GCT  
 WEATHER C PAR 30.02 WIND SW 3 SEA WSW 3  
 TEMPERATURE DRY 48 WET 47 DEPTH 121

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.16	31.92	24.71	.581	0.2	.00	10
5	9.17	31.92	24.71	.583	0.2	.00	12
10	9.18	31.94	24.72	.584	0.2	.00	11
20	9.18	31.94	24.72	.583	0.2	.00	10
30	6.25	32.09	25.25	.584	0.2	.00	12
40	6.45	32.25	25.35	.564	0.4	.09	10
50	5.48	32.25	25.47	.546	0.4	.38	15
70	4.98	32.34	25.59	.568	0.5	.38	14
90	4.60	32.45	25.72	.539	0.5	.14	18
110	4.34	32.65	25.91	.442	0.5	.12	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.16	31.92	24.71	324.6	.000
10	9.18	31.94	24.72	323.5	.032
20	9.18	31.94	24.72	323.7	.064
30	6.25	32.09	25.25	273.4	.094
50	5.48	32.25	25.47	252.7	.147
75	4.89	32.36	25.62	238.3	.208
100	4.47	32.55	25.82	219.9	.265

## STATION 6

55-39 N 167-02 W 13 JUL 1940 2008 GCT  
 WEATHER C BAR 30.12 WIND SW 4 SEA WSW 4  
 TEMPERATURE DRY 50 WET 48 DEPTH 137

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.05	32.07	24.84	.512	0.2	.00	12
5	9.07	32.07	24.84	.552	0.2	.00	10
10	9.08	32.05	24.82	.561	0.2	.00	10
20	8.89	32.16	24.94	.574	0.2	.00	10
30	8.69	32.16	24.97	.577	0.2	.00	12
40	5.97	32.30	25.45	.585	0.4	.35	12
50	5.53	32.39	25.57	.575	0.5	.32	12
75	4.54	32.63	25.87	.507	0.5	.00	20
100	4.27	32.72	25.97	.426	0.6	.00	48
125	4.24	32.75	26.00	.426	0.5	.02	48

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.05	32.07	24.84	311.8	.000
10	9.08	32.05	24.82	313.9	.031
20	8.89	32.16	24.94	303.1	.062
30	8.69	32.16	24.97	300.3	.092
50	5.53	32.39	25.57	242.8	.146
75	4.54	32.63	25.87	214.4	.203
100	4.27	32.72	25.97	205.2	.255

## STATION 7

55-54 N 167-44 W 14 JUL 1940 0303 GCT  
 WEATHER C BAR 30.14 WIND SW 3 SEA WSW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 134

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.06	32.05	24.82	.569	0.2	.00	4
5	9.02	32.09	24.86	.580	0.2	.00	10
10	9.01	32.09	24.86	.578	0.2	.00	5
20	8.79	32.07	24.88	.578	0.2	.00	10
30	8.02	32.03	24.96		0.2	.00	5
40	3.98	32.12	25.52	.581	0.5	.40	20
50	3.44	32.25	25.68	.447	0.5	.38	28
75	3.93	32.63	25.93	.403	0.5	.00	56
100	4.01	32.74	26.01	.406	0.5	.00	54
125	4.01	32.74	26.01	.402	0.6	.00	54

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.06	32.05	24.82	313.4	.000
10	9.01	32.09	24.86	309.9	.031
20	8.79	32.07	24.88	308.3	.062
30	8.02	32.03	24.96	300.5	.092
50	3.44	32.25	25.68	232.5	.145
75	3.93	32.63	25.93	208.5	.200
100	4.01	32.74	26.01	201.1	.251

## STATION 8

56-04 N 168-15 W 14 JUL 1940 0713 GCT  
 WEATHER C BAR 30.16 WIND SW 2 SEA WSW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 157

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.95	32.30	25.04	.551	0.3	.00	3
5	8.89	32.32	25.06	.575	0.4	.00	3
10	8.64	32.34	25.11	.522	0.4	.00	6
20	8.50	32.32	25.12	.549	0.4	.00	5
30	6.96	32.32	25.34	.592	0.5	.18	10
40	5.26	32.32	25.55	.582	0.9	.34	14
50	4.84	32.54	25.77	.545	1.2	.40	24
75	4.59	32.75	25.96	.405	1.0	.00	40
100	4.61	32.84	26.03	.468	1.2	.00	46
140	4.45	33.04	26.21	.438	1.5	.10	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.95	32.30	25.04	293.2	.000
10	8.64	32.34	25.11	285.9	.029
20	8.50	32.32	25.12	285.5	.058
30	6.96	32.32	25.34	264.9	.086
50	4.84	32.54	25.77	224.1	.135
75	4.59	32.75	25.96	205.9	.189
100	4.61	32.84	26.03	199.6	.240

## STATION 9

56-13 N 168-48 W 14 JUL 1940 1155 GCT  
 WEATHER C BAR 30.13 WIND SE 2 SEA WSW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 149

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.18	31.98	24.75	.560	0.0	.00	4
5	9.15	31.98	24.76	.572	0.2	.00	3
10	9.08	32.00	24.78	.577	0.2	.00	3
20	9.00	32.00	24.79	.578	0.3	.00	3
30	8.62	32.03	24.88	.586	0.3	.00	2
40	5.93	32.32	25.47	.611	0.8	.28	12
50	4.46	32.43	25.72	.578	1.0	.48	16
75	3.96	32.68	25.97	.423	1.8	.00	52
100	4.08	32.79	26.05	.419	1.8	.00	56
135	4.14	32.88	26.11	.428	1.8	.02	56

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.18	31.98	24.75	320.4	.000
10	9.08	32.00	24.78	317.6	.032
20	9.00	32.00	24.79	316.6	.064
30	8.62	32.03	24.88	309.0	.095
50	4.46	32.43	25.72	228.5	.149
75	3.96	32.68	25.97	205.0	.203
100	4.08	32.79	26.05	198.0	.253

## STATION 10

56-22 N 169-18 W 14 JUL 1940 1548 GCT  
 WEATHER C BAR 30.08 WIND SE 5 SEA SE 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 116

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.70	32.00	24.84	.561	0.2	.00	4
5	8.69	32.00	24.84	.572	0.2	.00	4
10	8.62	32.01	24.86	.581	0.3	.00	5
20	7.82	32.03	24.99	.603	0.5	.00	5
30	5.24	32.12	25.39	.594	0.8	.08	10
40	3.90	32.14	25.55	.564	1.0	.10	28
50	3.78	32.23	25.63	.554	1.2	.32	28
70	3.53	32.48	25.85	.413	2.0	.00	46
90	3.70	32.61	25.94	.458	2.0	.00	50
110	3.82	32.66	25.97	.426	2.0	.00	52

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.70	32.00	24.84	311.9	.000
10	8.62	32.01	24.86	310.1	.031
20	7.82	32.03	24.99	297.7	.061
30	5.24	32.12	25.39	259.7	.089
50	3.78	32.23	25.63	237.0	.139
75	3.57	32.51	25.87	214.2	.195
100	3.77	32.64	25.96	206.3	.248



## STATION 11

56-33 N 169-53 W 14 JUL 1940 2050 GCT  
 WEATHER 0 Z BAR 30.06 WIND SE 3 SEA SSE 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 95

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.76	31.64	25.06	.613	0.2	.00	3
5	4.74	31.69	25.11	.634	0.2	.00	3
10	4.77	31.65	25.07	.635	0.3	.00	10
20	4.17	31.65	25.13	.618	0.3	.00	11
30	3.72	31.67	25.19	.592	0.5	.00	10
40	3.29	31.69	25.25	.584	0.7	.00	12
50	3.03	31.73	25.30	.578	0.8	.00	10
60	2.62	31.74	25.34	.568	0.9	.08	12
75	2.50	31.96	25.53	.514	1.5	.00	16
90	3.00	32.52	25.93	.446	1.9	.00	40

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.76	31.64	25.06	290.5	.000
10	4.77	31.65	25.07	290.0	.029
20	4.17	31.65	25.13	284.2	.058
30	3.72	31.67	25.19	278.6	.086
50	3.03	31.73	25.30	268.3	.141
75	2.50	31.96	25.53	246.8	.205

## STATION 12

56-43 N 169-56 W 14 JUL 1940 2208 GCT  
 WEATHER 0 Z BAR 30.01 WIND ESE 4 SEA SSE 2  
 TEMPERATURE DRY 47 WET 47 DEPTH 85

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.23	31.83	24.92	.584	0.1	.00	0
5	6.42	31.80	25.00		0.3	.00	2
10	5.48	31.76	25.08	.602	0.1	.00	3
20	4.02	31.73	25.21	.587	0.2	.00	6
30	3.89	31.73	25.22	.578	0.5	.00	10
40	3.65	31.74	25.25	.572	0.8	.00	12
50	3.59	31.76	25.27	.571	0.8	.00	11
60	3.54	31.76	25.28	.568	0.8	.00	12
70	3.50	31.76	25.28	.568	0.8	.00	12
80	3.45	31.74	25.27	.567	0.8	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.23	31.83	24.92	304.5	.000
10	5.48	31.76	25.08	289.1	.030
20	4.02	31.73	25.21	276.8	.058
30	3.89	31.73	25.22	275.6	.086
50	3.59	31.76	25.27	270.8	.141
75	3.48	31.76	25.28	269.9	.209

## STATION 13

56-50 N 169-57 W 15 JUL 1940 0035 GCT  
 WEATHER C BAR 29.98 WIND ESE 5 SEA SSE 4  
 TEMPERATURE DRY 45 WET 45 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.63	31.98	24.84	.598	0.0	.00	0
5	8.68	32.07	24.90	.598	0.0	.00	0
10	8.68	32.09	24.91	.597	0.2	.00	2
20	8.66	32.10	24.92	.597	0.1	.00	0
30	8.64	32.10	24.93	.612	0.1	.00	3
40	4.69	32.09	25.43	.597	0.7	.15	5
50	3.00	32.16	25.64	.545	2.0	.15	14
60	2.75	32.20	25.70	.521	2.0	.10	14
70	2.73	32.16	25.67	.532	2.0	.10	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.63	31.98	24.84	312.4	.000
10	8.68	32.09	24.91	305.1	.031
20	8.66	32.10	24.92	304.2	.061
30	8.64	32.10	24.93	304.1	.091
50	3.00	32.16	25.64	235.6	.145

## STATION 14

57-00 N 169-59 W 15 JUL 1940 0253 GCT  
 WEATHER C BAR 29.89 WIND SE 6 SEA SSE 4  
 TEMPERATURE DRY 47 WET 46 DEPTH 69

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.78	31.46	24.92	.645	0.3	.03	6
5	4.76	31.53	24.98	.653	0.3	.03	4
10	3.90	31.53	25.06	.634	0.3	.04	10
20	3.10	31.51	25.12	.594	0.4	.05	10
30	3.14	31.55	25.15	.621	0.5	.07	10
40	3.09	31.56	25.16	.615	0.5	.07	11
50	3.12	31.56	25.16	.619	0.6	.08	11
60	3.07	31.58	25.18	.624	0.5	.07	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	4.78	31.46	24.92	304.3	.000
10	3.90	31.53	25.06	290.7	.030
20	3.10	31.51	25.12	285.4	.059
30	3.14	31.55	25.15	282.8	.087
50	3.12	31.56	25.16	281.9	.143

## STATION 15

57-07 N 170-17 W 15 JUL 1940 0550 GCT  
 WEATHER O Z BAR 29.82 WIND E.6 SEA SW 1  
 TEMPERATURE DRY 45 WET 44 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.17	31.51	24.92	.629	0.5	.00	2
5	5.17	31.53	24.93	.627	0.8	.03	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	5.17	31.51	24.92	304.5	.000

## STATION 16

57-20 N 170-06 W 16 JUL 1940 2225 GCT  
 WEATHER F BAR 29.32 WIND SE 3 SEA NE 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.89	31.56	24.75	.602	0.5	.00	10
5	6.85	31.56	24.76	.608	0.4	.00	0
10	6.32	31.58	24.84	.623	0.4	.02	10
20	3.15	31.58	25.17	.615	0.8	.08	0
30	2.89	31.62	25.22	.611	1.0	.11	16
40	2.84	31.55	25.17	.609	1.0	.10	10
50	2.85	31.56	25.18	.607	1.0	.12	10
55	2.83	31.67	25.27	.605	1.0	.12	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.89	31.56	24.75	320.5	.000
10	6.32	31.58	24.84	312.2	.031
20	3.15	31.58	25.17	280.5	.061
30	2.89	31.62	25.22	275.5	.089
50	2.85	31.56	25.18	279.7	.145

## STATION 17

57-39 N 169-46 W 17 JUL 1940 0203 GCT  
 WEATHER C BAR 29.32 WIND SE 3 SEA E 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 72

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.65	31.47	24.71	.601	0.1	.00	0
5	6.65	31.46	24.70	.612	0.1	.00	2
10	6.61	31.44	24.69	.600	0.2	.00	2
20	0.62	31.36	25.17	.613	0.9	.05	5
30	0.64	31.38	25.18	.620	1.0	.05	10
40	0.61	31.38	25.18	.618	1.0	.03	10
50	0.37	31.47	25.27	.586	1.0	.05	12
60	0.22	31.51	25.31	.565	1.1	.05	12
65	0.21	31.51	25.31	.565	1.1	.05	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.65	31.47	24.71	324.2	.000
10	6.61	31.44	24.69	326.1	.033
20	0.62	31.36	25.17	280.7	.063
30	0.64	31.38	25.18	279.3	.091
50	0.37	31.47	25.27	271.0	.146

## STATION 18

57-57 N 169-34 W 17 JUL 1940 0523 GCT  
 WEATHER C 2 BAR 29.31 WIND SE 2 SEA E 1  
 TEMPERATURE DRY 53 WET 49 DEPTH 71

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.61	31.31	24.46	.578	0.24	.00	1
5	7.63	31.29	24.44	.589	0.24	.00	1
10	7.56	31.26	24.43	.595	0.24	.00	2
15	7.48	31.24	24.42	.595	0.27	.00	4
20	6.71	31.24	24.52	.608	0.29	.00	4
30	0.40	31.35	25.17	.598	0.40	.03	10
40	0.37	31.35	25.17	.598	0.50	.03	10
50	0.32	31.38	25.20	.593	0.50	.03	12
65	0.33	31.38	25.20	.591	0.55	.05	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.61	31.31	24.46	348.3	.000
10	7.56	31.26	24.43	351.5	.035
20	6.71	31.24	24.52	342.4	.070
30	0.40	31.35	25.17	280.4	.101
50	0.32	31.38	25.20	277.7	.157

## STATION 19

58-17 N 169-15 W 17 JUL 1940 0840 GCT  
 WEATHER D BAR 29.30 WIND SE 4 SEA E 4  
 TEMPERATURE DRY 47 WET 46 DEPTH 69

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.53	31.11	24.31	.582	0.19	.00	1
5	7.51	31.09	24.30	.589	0.22	.00	1
10	7.52	31.09	24.30	.598	0.18	.00	1
20	5.45	31.08	24.55	.618	0.24	.00	3
30	0.34	31.31	25.14	.627	0.33	.00	9
40	0.31	31.31	25.14	.625	0.45	.00	10
50	0.30	31.31	25.14	.623	0.45	.01	10
65	0.29	31.35	25.17	.620	0.47	.02	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.53	31.11	24.31	362.2	.000
10	7.52	31.09	24.30	363.7	.036
20	5.45	31.08	24.55	340.0	.071
30	0.34	31.31	25.14	283.2	.102
50	0.30	31.31	25.14	282.9	.159

## STATION 20

58-38 N 168-58 W 17 JUL 1940 1245 GCT  
 WEATHER R BAR 29.30 WIND S 4 SEA ESE 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.29	31.08	24.18	.575	0.2	.00	2
5	8.28	31.11	24.21	.578	0.2	.00	1
10	8.28	31.11	24.21	.578	0.2	.00	2
20	8.01	31.13	24.26	.585	0.2	.00	5
30	0.93	31.36	25.15	.631	0.9	.03	12
40	0.87	31.38	25.17	.634	0.9	.02	10
50	0.87	31.38	25.17	.631	0.9	.00	10
60	0.87	31.40	25.19	.557	0.9	.00	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	8.29	31.08	24.18	374.6	.000
10	8.28	31.11	24.21	372.4	.037
20	8.01	31.13	24.26	367.3	.074
30	0.93	31.36	25.15	282.3	.106
50	0.87	31.38	25.17	280.4	.162

## STATION 21

58-58 N 168-41 W 17 JUL 1940 1616 GCT  
 WEATHER O E F BAR 29.27 WIND S 4 SEA S 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.48	31.20	24.39	.592	0.3	.00	1
5	7.48	31.24	24.42	.593	0.5	.00	1
10	7.45	31.26	24.44	.593	0.2	.00	2
20	3.82	31.35	24.93	.651	0.8	.00	5
30	3.68	31.36	24.95	.656	0.7	.00	5
40	3.64	31.36	24.95	.656	0.7	.00	5
45	3.64	31.38	24.97	.652	0.7	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	7.48	31.20	24.39	354.8	.000
10	7.45	31.26	24.44	350.1	.035
20	3.82	31.35	24.93	303.6	.068
30	3.68	31.36	24.95	301.7	.098

## STATION 22

59-16 N 168-24 W 17 JUL 1940 1918 GCT  
 WEATHER F BAR 29.28 WIND SE 4 SEA SSE 3  
 TEMPERATURE DRY 47 WET 46 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.06	31.51	24.82	.604	0.1	.00	2
5	6.05	31.51	24.82	.606	0.2	.00	3
10	6.10	31.51	24.81	.605	0.2	.00	4
15	6.04	31.53	24.83	.605	0.2	.00	6
20	6.10	31.51	24.81	.602	0.2	.00	6
35	6.08	31.53	24.83	.602	0.3	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.06	31.51	24.82	314.3	.000
10	6.10	31.51	24.81	314.8	.031
20	6.10	31.51	24.81	314.9	.062
30	6.09	31.52	24.82	314.2	.093

## STATION 23

59-37 N 167-54 W 17 JUL 1940 2230 GCT  
 WEATHER O F BAR 29.29 WIND SSE 5 SEA SSE 4  
 TEMPERATURE DRY 48 WET 47 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.31	31.56	24.69	.588	0.2	.00	5
5	7.26	31.56	24.70	.587	0.2	.00	1
10	7.21		24.71	.588	0.1	.00	1
15	7.20	31.56	24.71	.587	0.1	.00	12
20	7.11	31.58	24.74	.585	0.1	.00	14
35	7.04	31.60	24.76	.587	0.1	.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.31	31.56	24.69	325.7	.000
10	7.21	31.56	24.71	324.6	.033
20	7.11	31.58	24.74	321.9	.065
30	7.07	31.59	24.75	320.8	.097



## STATION 24

59-57 N 167-49 W 18 JUL 1940 0158 GCT  
 WEATHER C D BAR 29.31 WIND SE 5 SEA SSE 4  
 TEMPERATURE DRY 48 WET 48 DEPTH 26

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.94	31.51	24.42	.571	0.1	.00	1
5	8.90	31.51	24.43	.571	0.1	.00	1
10	8.90	31.53	24.44	.571	0.1	.00	1
15	8.91	31.53	24.44	.568	0.1	.00	1
20	8.94	31.53	24.44	.569	0.1	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.94	31.51	24.42	351.8	.000
10	8.90	31.53	24.44	349.9	.035
20	8.94	31.53	24.44	350.6	.070

## STATION 25

60-13 N 167-38 W 18 JUL 1940 0422 GCT  
 WEATHER C D BAR 29.31 WIND SSE 5 SEA SSE 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.13	31.51	24.23	.538	0.28	.00	3
5	10.10	31.51	24.24	.538	0.24	.00	2
10	10.14	31.51	24.23	.521	0.26	.00	2
15	10.14	31.51	24.23	.539	0.26	.00	3
20	10.18	31.51	24.22	.540	0.24	.00	2
30	10.20	31.51	24.22	.548	0.27	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.13	31.51	24.23	369.8	.000
10	10.14	31.51	24.23	370.2	.037
20	10.18	31.51	24.22	371.0	.074
30	10.20	31.51	24.22	371.5	.111

## STATION 26

59-46 N 167-26 W 18 JUL 1940 0910 GCT  
 WEATHER O Z BAR 29.33 WIND SSE 7 SEA SSE 5  
 TEMPERATURE DRY 47 WET 47 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.50	31.33	24.19	.544	0.24	.00	3
5	9.47	31.33	24.20	.621	0.22	.00	3
10	9.44	31.33	24.20	.522	0.23	.00	3
20	9.44	31.33	24.20	.547	0.21	.00	4
25	9.46	31.33	24.20	.544	0.20	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.50	31.33	24.19	373.5	.000
10	9.44	31.33	24.20	372.7	.037
20	9.44	31.33	24.20	372.9	.074

## STATION 27

59-38 N 166-55 W 18 JUL 1940 1251 GCT  
 WEATHER C BAR 29.38 WIND SSE 5 SEA SSE 4  
 TEMPERATURE DRY 48 WET 48 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.76	31.26	24.10	.534	0.48	.00	8
5	9.73	31.26	24.10	.532	0.48	.00	8
10	9.72	31.26	24.10	.532	0.50	.00	4
20	9.73	31.26	24.10	.538	0.50	.00	10
25	9.75	31.26	24.10	.531	0.55	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.76	31.26	24.10	382.6	.000
10	9.72	31.26	24.10	382.2	.038
20	9.73	31.26	24.10	382.5	.076

## STATION 28

50-36 N 166-09 W 18 JUL 1940 1610 GCT  
 WEATHER O Z BAR 29.42 WIND SE 6 SEA SSE 4  
 TEMPERATURE DRY 49 WET 49 DEPTH 34

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.49	31.26	23.98	.523	0.35	.00	4
5	10.47	31.24	23.97	.522	0.30	.00	3
10	10.48	31.22	23.95	.520	0.25	.00	3
20	10.42	31.24	23.97	.523	0.25	.00	3
25	10.44	31.26	23.99	.523	0.23	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.49	31.26	23.98	394.1	.000
10	10.48	31.22	23.95	397.0	.040
20	10.42	31.24	23.97	394.8	.080

## STATION 29

50-38 N 165-36 W 18 JUL 1940 1905 GCT  
 WEATHER O M BAR 29.44 WIND SSE 6 SEA SSE 4  
 TEMPERATURE DRY 49 WET 49 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.18	31.31	24.07	.536	0.50	.00	3
5	10.15	31.29	24.06	.532	0.32	.00	2
10	10.16	31.29	24.06	.532	0.35	.00	2
15	10.18	31.29	24.05	.537	0.35	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.18	31.31	24.07	385.4	.000
10	10.16	31.29	24.06	386.8	.039

## STATION 30

59-38 N 165-12 W 18 JUL 1940 2125 GCT  
 WEATHER O M Z BAR 29.49 WIND SSE 5 SEA SSE 4  
 TEMPERATURE DRY 50 WET 50 DEPTH 12

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.92	31.08	23.76	.535	0.32	.00	1
4	10.90	31.08	23.77	.528	0.32	.00	1
8	10.89	31.08	23.77	.512	0.32	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.92	31.08	23.76	414.4	.000

## STATION 31

59-25 N 164-27 W 19 JUL 1940 0136 GCT  
 WEATHER C BAR 29.56 WIND S 6 SEA SSE 3  
 TEMPERATURE DRY 51 WET 50 DEPTH 21

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.94	31.08	23.76	.559	0.2	.00	2
5	10.93	31.08	23.76	.556	0.2	.00	2
10	10.92	31.08	23.76	.552	0.2	.00	2
15	10.93	31.08	23.76	.548	0.2	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.94	31.08	23.76	414.7	.000
10	10.92	31.08	23.76	414.6	.041

## STATION 32

59-16 N 163-56 W 19 JUL 1940 0440 GCT  
 WEATHER C Z BAR 29.66 WIND S 5 SEA S 4  
 TEMPERATURE DRY 50 WET 50 DEPTH 23

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.43	31.06	23.83	.549	0.35	.00	3
5	10.41	31.08	23.85	.545	0.23	.00	2
10	10.42	31.04	23.82	.533	0.22	.00	1
17	10.37	31.09	23.87	.545	0.22	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.43	31.06	23.83	407.9	.000
10	10.42	31.04	23.82	409.4	.041

## STATION 33

59-12 N 163-42 W 19 JUL 1940 0645 GCT  
 WEATHER O Z BAR 29.69 WIND S 5 SEA S 4  
 TEMPERATURE DRY 50 WET 49 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.41	31.00	23.79	.548	0.14	.00	1
5	10.39	31.00	23.79	.543	0.13	.00	2
10	10.40	31.00	23.79	.532	0.07	.00	2
15	10.41	31.00	23.79	.548	0.08	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.41	31.00	23.79	412.1	.000
10	10.40	31.00	23.79	412.1	.041

## STATION 34

58-53 N 163-24 W 19 JUL 1940 0956 GCT  
 WEATHER 0 Z BAR 29.74 WIND S 5 SEA S 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 26

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.09	30.77	23.66	.552	0.04	.00	2
5	10.07	30.77	23.67	.547	0.04	.00	2
10	10.09	30.77	23.66	.453	0.04	.00	2
20	10.10	30.77	23.66	.551	0.05	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.09	30.77	23.66	424.1	.000
10	10.09	30.77	23.66	424.2	.042
20	10.10	30.77	23.66	424.6	.084

## STATION 35

58-35 N 163-03 W 19 JUL 1940 1306 GCT  
 WEATHER 0 BAR 29.80 WIND SSE 4 SEA S 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 29

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.29	31.41	24.13	.547	0.2	.00	4
5	10.30	31.46	24.17	.546	0.3	.00	4
10	10.30	31.48	24.18	.537	0.2	.00	4
20	10.30	31.48	24.18	.546	0.28	.00	4
25	10.32	31.48	24.18	.541	0.28	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.29	31.41	24.13	379.8	.000
10	10.30	31.48	24.18	374.9	.038
20	10.30	31.48	24.18	375.1	.076

## STATION 36

58-18 N 162-49 W 19 JUL 1940 1600 GCT  
 WEATHER C BAR 29.80 WIND S 4 SEA S 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 33

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.23	30.70	23.75	.541	0.28	.00	2
5	9.18	30.73	23.78	.557	0.18	.00	2
10	9.18	30.73	23.78	.552	0.30	.00	2
20	9.19	30.75	23.79	.559	0.29	.00	2
25	9.14	30.73	23.78	.563	0.30	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.23	30.70	23.75	416.3	.000
10	9.18	30.73	23.78	413.4	.041
20	9.19	30.75	23.79	412.3	.082

## STATION 37

58-00 N 162-32 W 19 JUL 1940 1915 GCT  
 WEATHER F BAR 29.77 WIND SE 4 SEA SE 1  
 TEMPERATURE DRY 46 WET 46 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.62	31.40	24.53	.570	0.27	.00	2
5	7.57	31.40	24.53	.569	0.28	.00	3
10	7.43	31.40	24.55	.571	0.26	.00	2
20	7.42	31.51	24.64	.581	0.23	.00	2
37	7.40	31.51	24.64	.578	0.21	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.62	31.40	24.53	341.7	.000
10	7.43	31.40	24.55	339.4	.034
20	7.42	31.51	24.64	331.1	.068
30	7.41	31.51	24.64	331.1	.101

## STATION 38

57-34 N 162-14 W 19 JUL 1940 2240 GCT  
 WEATHER C Z BAR 29.70 WIND E 5 SEA ENE 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.34	31.73	24.68	.615	0.55	.00	3
5	8.14	31.76	24.74	.618	0.32	.00	5
10	7.39	31.80	24.87	.609	0.43	.00	8
20	6.67	31.87	25.02	.555	0.72	.00	8
30	6.70	31.87	25.02	.580	0.58	.00	6
40	6.65	31.87	25.03	.572	0.70	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.34	31.73	24.68	326.9	.000
10	7.39	31.80	24.87	309.0	.032
20	6.67	31.87	25.02	294.8	.062
30	6.70	31.87	25.02	295.3	.092

## STATION 39

57-22 N 162-00 W 22 JUL 1940 0325 GCT  
 WEATHER C Z BAR 29.96 WIND SE 3 SEA SSW 2  
 TEMPERATURE DRY 50 WET 49 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.90	31.74	24.45		0.02	.00	3
5	9.90	31.74	24.45	.593	0.00	.00	5
10	9.71	31.76	24.50	.593	0.02	.00	4
20	6.35	31.69	24.92	.552	0.30	.00	4
30	6.26	31.69	24.93	.543	0.38	.01	4
40	6.20	31.64	24.90	.562	0.38	.00	3
45	6.22	31.65	24.91	.561	0.42	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.90	31.74	24.45	349.2	.000
10	9.71	31.76	24.50	344.9	.035
20	6.35	31.69	24.92	304.4	.067
30	6.26	31.69	24.93	303.4	.097



## STATION 40

57-08 N 161-42 W 22 JUL 1940 0715 GCT  
 WEATHER O P BAR 29.93 WIND SSE 1 SEA SW 2  
 TEMPERATURE DRY 50 WET 50 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.03	31.71	24.40	.614	0.02	.00	3
5	9.07	31.71	24.56	.629	0.02	.00	3
10	7.42	31.65	24.75	.628	0.08	.00	4
20	6.55	31.73	24.93	.571	0.32	.02	5
30	6.31	31.73	24.96	.567	0.30	.02	5
40	6.18	31.74	24.98	.557			
50	6.15	31.74	24.99	.554	0.38	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.03	31.71	24.40	353.4	.000
10	7.42	31.65	24.75	320.6	.034
20	6.55	31.73	24.93	303.8	.065
30	6.31	31.73	24.96	301.0	.095
50	6.15	31.74	24.99	298.6	.155

## STATION 41

56-49 N 161-25 W 22 JUL 1940 1015 GCT  
 WEATHER O D BAR 29.93 WIND SE 2 SEA SW 2  
 TEMPERATURE DRY 51 WET 50 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.82	31.73	24.29	.585	0.07	.00	3
5	10.79	31.73	24.29	.589	0.04	.00	3
10	10.30	31.74	24.38	.593	0.34	.00	5
20	4.54	31.85	25.25	.545	0.60	.04	11
30	2.74	31.92	25.47	.538	1.20	.12	16
40	2.70	31.91	25.47	.540	1.20	.08	17
50	2.72	31.92	25.48	.573	1.00	.09	18
60	2.71	31.92	25.48	.544	1.15	.06	14
70	2.72	31.92	25.48	.532	1.20	.10	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.82	31.73	24.29	364.7	.000
10	10.30	31.74	24.38	355.7	.036
20	4.54	31.85	25.25	272.7	.067
30	2.74	31.92	25.47	251.6	.093
50	2.72	31.92	25.48	251.5	.143

## STATION 42

56-30 N 161-10 W 22 JUL 1940 1330 GCT  
 WEATHER C BAR 29.94 WIND S 4 SEA SW 2  
 TEMPERATURE DRY 50 WET 50 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.56	31.73	24.50	.604	0.08	.00	10
5	9.51	31.73	24.50	.613	0.12	.00	9
10	9.51	31.73	24.50	.604	0.12	.00	2
20	9.26	31.74	24.55	.598	0.05	.00	9
30	8.45	31.76	24.69	.570	0.22	.02	10
40	3.75	31.80	25.29	.515	0.95	.18	28
50	3.71	31.83	25.32	.525	0.12	.20	26
60	3.69	31.83	25.32	.521	1.00	.18	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.56	31.73	24.50	344.7	.000
10	9.51	31.73	24.50	344.1	.034
20	9.26	31.74	24.55	339.7	.068
30	8.45	31.76	24.69	326.6	.101
50	3.71	31.83	25.32	266.6	.160

## STATION 43

56-13 N 160-52 W 22 JUL 1940 1646 GCT  
 WEATHER C Z BAR 30.05 WIND SSW 4 SEA SW 5  
 TEMPERATURE DRY 50 WET 50 DEPTH 38

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.94	31.44	24.37	.585	0.33	.00	5
5	8.92	31.46	24.39	.588	0.32	.00	3
10	8.91	31.46	24.39	.582	0.33	.00	3
20	8.83	31.46	24.40	.588	0.33	.00	3
30	8.84	31.47	24.41	.581	0.33	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.94	31.44	24.37	357.0	.000
10	8.91	31.46	24.39	355.2	.036
20	8.83	31.46	24.40	354.2	.071
30	8.84	31.47	24.41	353.8	.106

## STATION 44

56-05 N 160-42 W 22 JUL 1946 1905 GCT  
 WEATHER C Z BAR 29.99 WIND SSW 2 SEA W 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 12

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.71	30.12	22.88		1.00	.00	6
8	11.36	30.23	23.03		1.00	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.71	30.12	22.88	498.6	.000

## STATION 45

56-04 N 161-26 W 23 JUL 1940 0538 GCT  
 WEATHER C Z BAR 30.08 WIND NE 1 SEA W 1  
 TEMPERATURE DRY 55 WET 54 DEPTH 35

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.66	31.49	24.29	.605	0.0	.00	2
5	9.13	31.51	24.39	.609	0.0	.00	3
10	8.91	31.51	24.43	.580	0.33	.00	3
20	8.82	31.55	24.47	.577	0.35	.00	3
30	8.84	31.55	24.47	.574	0.30	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.66	31.49	24.29	364.3	.000
10	8.91	31.51	24.43	351.5	.043
20	8.82	31.55	24.47	347.4	.078
30	8.84	31.55	24.47	347.8	.113

## STATION 46

55-54 N 161-58 W 23 JUL 1940 0845 GGT  
 WEATHER O D BAR 30.02 WIND SE 4 SEA SW 1  
 TEMPERATURE DRY 51 WET 51 DEPTH 30

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	9.63	31.46	24.27	.535	0.45	.00	11
5	9.58	31.47	24.29	.532	0.45	.00	10
10	9.58	31.47	24.29	.531	0.45	.00	10
20	9.49	31.49	24.32	.533	0.45	.02	10
27	9.49	31.51	24.34	.531	0.45	.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.63	31.46	24.27	365.8	.000
10	9.58	31.47	24.29	364.5	.037
20	9.49	31.49	24.32	361.8	.073

## STATION 47

55-46 N 162-30 W 23 JUL 1940 1158 GCT  
 WEATHER O D BAR 30.00 WIND WNW 2 SEA WSW 1  
 TEMPERATURE DRY 51 WET 50 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	9.51	31.73	24.50	.562	0.28	.00	12
4	9.32	31.69	24.50	.536	0.35	.00	12
9	9.17	31.71	24.54	.539	0.40	.02	10
19	8.95	31.71	24.58	.531	0.40	.00	12
29	8.86	31.71	24.59	.531	0.40	.02	14
38	8.90	31.73	24.60	.526	0.40	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.51	31.73	24.50	343.9	.000
10	9.15	31.71	24.54	340.2	.034
20	8.94	31.71	24.58	337.2	.068
30	8.86	31.71	24.59	336.2	.102

## STATION 48

56-05 N 162-41 W 23 JUL 1940 1513 GCT  
 WEATHER 0 BAR 30.01 WIND ENE 2 SEA WSW 1  
 TEMPERATURE DRY 51 WET 51 DEPTH 80

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.25	31.78	24.42	.568	0.02	.00	2
5	10.26	31.78	24.42	.561	0.08	.00	0
10	10.24	31.80	24.44	.507	0.08	.00	0
20	9.57	31.80	24.55	.582	0.08	.00	3
30	4.18	31.98	25.39	.500	0.09	.15	24
40	3.87	31.98	25.42	.495	1.00	.08	24
50	3.68	31.98	25.44	.494	1.00	.10	24
60		31.98	25.45	.480	1.20	.03	28
70	0.64	31.98	25.66	.483	1.20	.02	24

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.25	31.78	24.42	351.7	.000
10	10.24	31.80	24.44	350.3	.035
20	9.57	31.80	24.55	340.0	.070
30	4.18	31.98	25.39	259.5	.100
50	3.68	31.98	25.44	255.0	.151

## STATION 49

56-23 N 163-00 W 23 JUL 1940 1830 GCT  
 WEATHER 0 F BAR 30.05 WIND ENE 3 SEA WSW 1  
 TEMPERATURE DRY 51 WET 51 DEPTH 84

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.04	31.78	24.46	.563	0.22	.00	4
5	10.02	31.78	24.46	.561	0.18	.00	2
10	9.99	31.78	24.47	.569	0.17	.00	3
20	9.66	31.80	24.53	.571	0.13	.00	3
30	2.11	31.98	25.57	.494	1.00	.09	36
40	1.90	32.00	25.60	.522	1.00	.09	34
50	1.93	32.00	25.60	.522	1.00	.12	36
60	1.88	32.00	25.60	.517	1.05	.08	42
70	1.92	32.00	25.60	.525	1.10	.09	40
80	1.91	31.98	25.59	.518	1.05	.02	36

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.04	31.78	24.46	348.4	.000
10	9.99	31.78	24.47	347.8	.035
20	9.66	31.80	24.53	341.4	.069
30	2.11	31.98	25.57	242.4	.098
50	1.93	32.00	25.60	239.7	.146
75	1.91	32.00	25.60	239.5	.206

## STATION 50

56-42 N 163-18 W 23 JUL 1940 2247 GCT  
 WEATHER 0 Z BAR 30.05 WIND E 2 SEA WSW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 76

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.30	31.80	24.43	.580	0.05	.00	14
5	10.06	31.80	24.47	.582	0.12	.00	10
10	9.93	31.80	24.49	.575	0.08	.00	11
20	1.98	31.94	25.55	.540	1.25	.22	40
30	1.97	31.94	25.55	.539	1.20	.23	38
40	1.90	31.96	25.57	.536	1.28	.23	38
50	1.93	31.96	25.57	.541	1.28	.20	38
60		31.96	25.57	.536	1.28	.20	46
70	1.94	31.96	25.57	.535	1.28	.21	40

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	10.30	31.80	24.43	351.0	.000
10	9.93	31.80	24.49	345.4	.035
20	1.98	31.94	25.55	244.5	.064
30	1.97	31.94	25.55	244.5	.088
50	1.93	31.96	25.57	242.7	.137

## STATION 51

56-58 N 163-33 W 24 JUL 1940 0140 GCT  
 WEATHER C BAR 30.03 WIND E 3 SEA WNW 1  
 TEMPERATURE DRY 55 WET 53 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.32	31.74	24.38	.597	0.0	.00	10
5	10.23	31.74	24.39	.600	0.0	.00	10
10	9.97	31.74	24.44	.591	0.0	.00	10
20	2.36	31.85	25.45	.576	1.05	.15	22
30	2.26	31.85	25.46	.579	1.12	.15	24
40	2.20	31.87	25.48	.570	1.15	.13	26
50	2.19	31.87	25.48	.568	1.12	.10	24
60	2.18	31.87	25.48	.568	1.15	.12	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	10.32	31.74	24.38	355.8	.000
10	9.97	31.74	24.44	350.4	.035
20	2.36	31.85	25.45	254.0	.065
30	2.26	31.85	25.46	253.3	.090
50	2.19	31.87	25.48	251.3	.140

## STATION 52

57-16 N 163-50 W 24 JUL 1940 0455 GCT  
 WEATHER 0 BAR 30.02 WIND E 3 SEA NNW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.73	31.62	24.38	.598	0.07	.00	11
5	9.65	31.60	24.38	.595	0.05	.00	9
10	9.31	31.58	24.42	.575	0.05	.00	5
20	4.50	31.67	25.12	.537	0.90	.07	17
30	4.22	31.71	25.18	.537	0.90	.08	17
40	3.90	31.69	25.19	.539	1.00	.08	13
50	3.67	31.71	25.23	.540	1.00	.07	18
60	3.44	31.71	25.25	.536	1.00	.08	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.73	31.62	24.38	355.4	.000
10	9.31	31.58	24.42	352.2	.035
20	4.50	31.67	25.12	285.8	.067
30	4.22	31.71	25.18	280.2	.095
50	3.67	31.71	25.23	275.3	.151

## STATION 53

57-34 N 164-06 W 24 JUL 1940 0812 GCT  
 WEATHER 0 Z BAR 30.04 WIND ENE 2 SEA WNW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 56

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.12	31.53	24.41	.588	0.15	.00	4
5	9.16	31.56	24.43	.528	0.10	.00	5
10	8.35	31.44	24.45	.497	0.10	.00	4
15	8.10	31.44	24.49	.586	0.26	.00	6
20	7.15	31.40	24.59	.577	0.28	.00	6
30	5.32	31.40	24.81	.574	0.40	.02	7
40	4.98	31.44	24.88	.568	0.70	.02	10
50	4.76	31.47	24.93	.568	0.65	.03	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.12	31.53	24.41	352.9	.000
10	8.35	31.44	24.45	348.7	.035
20	7.15	31.40	24.59	335.9	.069
30	5.32	31.40	24.81	314.6	.102
50	4.76	31.47	24.93	303.7	.164

## STATION 54

57-52 N 164-21 W 24 JUL 1940 1106 GCT  
 WEATHER D BAR 30.06 WIND E 1 SEA WNW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.43	31.29	24.47	.597	0.12	.00	12
5	7.39	31.29	24.47	.599	0.25	.00	10
10	7.07	31.33	24.55	.588	0.25	.00	10
20	6.89	31.31	24.55	.580	0.30	.00	12
30	6.89	31.33	24.57	.578	0.30	.00	12
43	6.83	31.33	24.58	.575	0.38	.00	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.43	31.29	24.47	347.4	.000
10	7.07	31.33	24.55	340.0	.034
20	6.89	31.31	24.55	339.4	.068
30	6.89	31.33	24.57	338.0	.102

## STATION 55

58-10 N 164-40 W 24 JUL 1940 1438 GCT  
 WEATHER D BAR 30.08 WIND E 1 SEA SSW 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.79	31.33	24.45	.592	0.18	.00	2
5	7.77	31.33	24.45	.592	0.18	.00	2
10	7.54	31.35	24.50	.581	0.20	.00	2
20	6.29	31.42	24.72	.546	0.43	.02	10
30	6.30	31.44	24.73	.538	0.48	.03	12
40	6.26	31.44	24.74	.540	0.48	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.79	31.33	24.45	349.2	.000
10	7.54	31.35	24.50	344.5	.035
20	6.29	31.42	24.72	323.9	.068
30	6.30	31.44	24.73	322.6	.100



## STATION 56

58-29 N 164-57 W 24 JUL 1940 1738 GCT  
 WEATHER O D BAR 30.09 WIND ENE 2 SEA SW 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 42

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.95	31.47	24.54	.571	0.30	.00	8
5	7.89	31.47	24.54	.554	0.28	.01	8
10	7.77	31.49	24.58	.555	0.28	.01	8
20	7.65	31.47	24.58	.563	0.30	.01	9
30	7.67	31.49	24.59	.560	0.30	.01	10
35	7.63	31.49	24.60	.561	0.32	.00	8

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	7.95	31.47	24.54	340.9	.000
10	7.77	31.49	24.58	337.1	.034
20	7.65	31.47	24.58	337.1	.068
30	7.67	31.49	24.59	336.0	.102

## STATION 57

58-19 N 165-30 W 24 JUL 1940 2038 GCT  
 WEATHER O Z BAR 30.12 WIND ENE 2 SEA SSW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.84	31.33	24.44	.583	0.43	.00	5
5	7.79	31.33	24.45	.580	0.45	.00	3
10	7.28	31.35	24.53	.571	0.48	.00	5
20	7.12	31.36	24.56	.571	0.45	.00	5
30	7.15	31.36	24.56	.506	0.60	.00	8
40	7.11	31.36	24.56	.560	0.55	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	Δσ
0	7.84	31.33	24.44	349.8	.000
10	7.28	31.35	24.53	341.2	.035
20	7.12	31.36	24.56	338.5	.069
30	7.15	31.36	24.56	339.0	.103

## STATION 58

58-10 N 166-04 W 24 JUL 1940 2347 GCT  
 WEATHER C BAR 30.12 WIND WNW 2 SEA SSW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 50

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.74	31.27	24.41	.601	0.33	.00	7
5	7.66	31.29	24.44	.598		.00	5
10	7.34	31.31	24.49	.607		.00	5
20	5.24	31.33	24.77	.613		.00	10
30	4.53	31.35	24.86	.619		.00	10
40	4.47	31.35	24.86	.623		.00	10
45	4.50	31.35	24.86	.622		.00	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	7.74	31.27	24.41	353.0	.000
10	7.34	31.31	24.49	344.9	.035
20	5.24	31.33	24.77	318.9	.068
30	4.53	31.35	24.86	310.3	.099

## STATION 59

57-58 N 166-44 W 25 JUL 1940 0302 GCT  
 WEATHER BC Z BAR 30.16 WIND NNW 1 SEA W 1  
 TEMPERATURE DRY 52 WET 50 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.93	31.35	24.30	.587	0.28	.00	3
5	7.98	31.31	24.41	.592	0.22	.00	2
10	7.66	31.33	24.47	.590	0.25	.00	2
20	7.61	31.36	24.50	.586	0.48	.00	2
30	2.34	31.36	25.06	.674	0.76	.00	4
40	2.27	31.33	25.04	.674	0.75	.00	3
50	2.30	31.35	25.05	.672	0.80	.00	4
55	2.31	31.35	25.05	.672	0.78	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	8.93	31.35	24.30	363.5	.000
10	7.66	31.33	24.47	347.6	.036
20	7.61	31.36	24.50	344.8	.071
30	2.34	31.36	25.06	291.0	.103
50	2.30	31.35	25.05	291.5	.161

## STATION 60.

57-50 N 167-10 W 25 JUL 1940 0550 GCT  
 WEATHER C BAR 30.18 WIND WNW 1 SEA W 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.83	31.44	24.23	.591	0.34	.00	1
5	7.83	31.40	24.50	.596	0.33	.00	1
10	7.45	31.38	24.53	.606	0.35	.00	1
20	7.29	31.42	24.59	.608	0.37	.00	2
30	1.09	31.44	25.21	.617	0.95	.01	18
40	1.00	31.44	25.21	.618	1.00	.00	23
50	1.01	31.46	25.23	.618	1.10	.02	14
64	1.00	31.44	25.21	.619	1.05	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.83	31.44	24.23	370.3	.000
10	7.45	31.38	24.53	341.1	.036
20	7.29	31.42	24.59	336.2	.070
30	1.09	31.44	25.21	277.0	.101
50	1.01	31.46	25.23	275.0	.156

## STATION 61

57-40 N 167-44 W 25 JUL 1940 0910 GCT  
 WEATHER O F BAR 30.21 WIND SW 3 SEA W 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.14	31.46	24.50	.606	0.37	.00	3
5	7.91	31.44	24.52	.600	0.35	.00	3
10	7.30	31.44	24.60	.615	0.40	.00	2
20	7.05	31.44	24.64	.603	0.38	.00	3
30	0.93	31.46	25.23	.613	1.10	.03	9
40	0.91	31.47	25.24	.604	1.15	.02	9
50	0.91	31.51	25.27	.604	1.15	.01	11
65	0.91	31.51	25.27	.604	1.20	.01	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.14	31.46	24.50	344.2	.000
10	7.30	31.44	24.60	334.7	.034
20	7.05	31.44	24.64	331.6	.067
30	0.93	31.46	25.23	274.7	.097
50	0.91	31.51	25.27	270.7	.152

## STATION 62

57-22 N 167-27 W 25 JUL 1940 1222 GCT  
 WEATHER C BAR 30.23 WIND CALM SEA CALM  
 TEMPERATURE DRY 48 WET 48 DEPTH 74

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.79	31.51	24.44	.591	0.05	.00	6
5	8.62	31.49	24.45	.593	0.12	.00	5
10	7.68	31.49	24.59	.605	0.12	.00	2
20	7.26	31.49	24.65	.583	0.15	.00	4
30	1.36	31.69	25.39	.578	0.90	.10	20
40	0.97	31.69	25.41	.569	0.95	.10	20
50	0.97	31.69	25.41	.569	1.00	.10	20
60	0.96	31.73	25.45	.571	1.02	.11	20
70	0.97	31.67	25.40	.566	1.05	.12	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.79	31.51	24.44	349.6	.000
10	7.68	31.49	24.59	335.9	.034
20	7.26	31.49	24.65	330.6	.067
30	1.36	31.69	25.39	259.6	.097
50	0.97	31.69	25.41	257.3	.149

## STATION 63

57-04 N 167-12 W 25 JUL 1940 1528 GCT  
 WEATHER C E Z BAR 30.23 WIND S 1 SEA W 1  
 TEMPERATURE DRY 47 WET 47 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.73	31.51	24.45	.575	0.02	.00	2
5	8.49	31.51	24.49	.579	0.05	.00	3
10	8.16	31.51	24.54	.580	0.02	.00	2
20	7.60	31.55	24.65	.571	0.10	.01	3
30	0.96	31.78	25.49	.555	1.05	.19	24
40	0.91	31.76	25.47	.554	1.20	.12	22
50	0.92	31.78	25.49	.554	1.20	.13	22
60	0.91	31.78	25.49	.554	1.20	.14	24
70	0.92	31.78	25.49	.555	1.20	.14	22

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.73	31.51	24.45	348.8	.000
10	8.16	31.51	24.54	340.9	.034
20	7.60	31.55	24.65	330.5	.068
30	0.96	31.78	25.49	250.4	.097
50	0.92	31.78	25.49	250.2	.147

## STATION 64

56-46 N 166-55 W 25 JUL 1940 1855 GCT  
 WEATHER C 2 BAR 30.21 WIND SSE 2 SEA W 1  
 TEMPERATURE DRY 48 WET 47 DEPTH 85

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.71	31.62	24.54	.579	0.08	.00	2
5	8.65	31.64	24.57	.581	0.12	.00	2
10	8.28	31.64	24.62	.573	0.08	.00	2
20	8.23	31.67	24.65	.587	0.10	.00	2
30	4.90	31.74	25.13	.571	0.57	.00	3
40	1.51	31.74	25.42	.493	1.60	.03	2
50	1.53	32.07	25.68	.491	1.90	.03	3
60	1.54	32.01	25.63	.496	2.05	.04	3
70	1.55	32.03	25.65	.484	2.05	.02	2
80	1.54	32.05	25.67	.485	2.05	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	8.71	31.62	24.54	340.3	.000
10	8.28	31.64	24.62	332.9	.034
20	8.23	31.67	24.65	330.1	.067
30	4.90	31.74	25.13	284.7	.098
50	1.53	32.07	25.68	231.7	.150
75	1.54	32.04	25.66	234.0	.208

STATION 65

56-28 N 166-42 W 25 JUL 1940 2157 GCT  
 WEATHER 0 BAR 30.17 WIND ESE 4 SEA SE 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 103

OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.43	31.80	24.57	.567	0.08	.00	2
5	9.38	31.80	24.58	.566	0.08	.00	2
10	9.38	31.80	24.58	.563	0.10	.00	2
20	9.20	31.83	24.63	.570	0.10	.00	9
30	9.13	31.83	24.64	.567	0.12	.00	4
40	5.37	31.85	25.16	.638	0.60	.03	6
50	2.35	32.00	25.57	.528	1.25	.08	28
65	1.91	32.14	25.71	.469	1.60	.06	35
75	1.92	32.14	25.71	.465	1.69	.05	36
80	1.92	32.14	25.71	.464	1.73	.05	36
97	1.92	32.14	25.71	.465	1.80	.04	36

INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.43	31.80	24.57	337.5	.000
10	9.38	31.80	24.58	336.9	.034
20	9.20	31.83	24.63	332.2	.067
30	9.13	31.83	24.64	331.3	.100
50	2.35	32.00	25.57	242.6	.157
75	1.92	32.14	25.71	229.0	.216

## STATION 66

56-10 N 166-26 W 26 JUL 1940 0145 GCT  
 WEATHER D BAR 30.08 WIND E 5 SEA SW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 116

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.66	31.91	24.62	.574	0.15		9
5	9.61	31.91	24.63	.578	0.15		9
10	9.61	31.92	24.64	.583	0.12		8
20	9.24	31.92	24.69	.578	0.18		9
30	9.05	31.94	24.74	.567	0.18		10
40	5.54	32.16	25.39	.569	1.05		24
50	5.00	32.21	25.49	.547	1.33		24
70	3.96	32.36	25.72	.454	1.35		40
90	3.79	32.38	25.75	.437	1.75		40
110	3.79	32.27	25.66	.524	1.35		38

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	9.66	31.91	24.62	332.9	.000
10	9.61	31.92	24.64	331.5	.033
20	9.24	31.92	24.69	326.1	.066
30	9.05	31.94	24.74	321.9	.098
50	5.00	32.21	25.49	250.6	.155
75	3.89	32.36	25.72	228.4	.215
100	3.77	32.34	25.72	228.9	.272

## STATION 67

55-52 N 166-09 W 26 JUL 1940 0445 GCT  
 WEATHER 0 Z BAR 30.02 WIND E 5 SEA ESE 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 127

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.45	31.92	24.66	.573	0.36	.00	10
5	9.42	31.94	24.68	.578	0.36	.00	6
10	9.41	31.94	24.68	.574	0.34	.00	5
25	9.05	32.01	24.79	.570	0.46	.00	8
40	6.09	32.10	25.28	.567	0.98	.26	18
55	5.57	32.25	25.46	.552	1.36	.30	22
70	5.74	32.47	25.61	.522	1.39	.19	26
85	4.89	32.63	25.83	.467	2.00	.11	45
100	4.63	32.66	25.89	.421	2.00	.10	45
123	4.59	32.88	26.06	.417	2.10	.13	46

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	9.45	31.92	24.66	328.9	.000
10	9.41	31.94	24.68	327.0	.033
20	9.24	31.99	24.75	320.9	.065
30	8.20	32.03	24.94	303.0	.096
50	5.70	32.19	25.39	259.7	.152
75	5.50	32.52	25.68	233.0	.214
100	4.63	32.66	25.89	213.3	.270



## STATION 68

55-34 N 165-53 W 26 JUL 1940 0854 GCT  
 WEATHER O M BAR 29.95 WIND E 4 SEA SE 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 123

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.61	31.87	24.60	.574	0.36	.00	2
10	9.55	31.87	24.61	.574	0.40	.00	3
20	8.89	31.89	24.73	.561	0.40	.00	3
30	8.44	31.94	24.83	.557	0.52	.02	10
40	6.83	32.07	25.16	.553	0.88	.23	15
50	5.79	32.18	25.38	.545	1.16	.16	19
65	5.65	32.23	25.43	.546	1.24	.22	20
80	5.33	32.32	25.54	.518	1.44	.18	22
95	4.71	32.61	25.84	.422	1.72	.05	41
118	4.69	32.61	25.84	.417	1.74	.07	40

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.61	31.87	24.60	335.1	.000
10	9.55	31.87	24.61	334.3	.033
20	8.89	31.89	24.73	323.1	.066
30	8.44	31.94	24.83	313.1	.098
50	5.79	32.18	25.38	261.5	.155
75	5.45	32.29	25.50	249.6	.219
100	4.70	32.61	25.84	217.8	.277

## STATION 69

55-15 N 165-40 W 26 JUL 1940 1305 GCT  
 WEATHER D BAR 29.93 WIND SSW 4 SEA SW 1  
 TEMPERATURE DRY 50 WET 50 DEPTH 120

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.48	31.92	24.66	.582	0.10	.00	3
5	9.38	31.92	24.67	.584	0.10	.00	6
10	9.35	31.92	24.68	.586	0.15	.00	2
15	4.80	32.70	25.90	.419	1.60	.21	42
20	8.77	32.00	24.83	.586	0.30	.04	16
30	8.17	32.09	24.99	.553	0.70	.15	20
40	7.81	32.10	25.05	.551	0.78	.19	28
50	7.22	32.16	25.18	.545	0.80	.22	23
70	6.16	32.29	25.42	.542	1.00	.33	26
90	5.19	32.68	25.84	.440	1.55	.22	46

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.48	31.92	24.66	329.4	.000
10	9.35	31.92	24.68	327.6	.033
20	8.77	32.00	24.83	313.2	.065
30	8.17	32.09	24.99	298.1	.096
50	7.22	32.16	25.18	280.4	.154
75	5.93	32.39	25.52	247.6	.220

## STATION 70

54-59 N 165-24 W 26 JUL 1940 1615 GCT  
 WEATHER O E Z BAR 29.97 WIND SW 4 SEA SW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 122

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.56	32.25	25.06	.575	0.63	.17	26
5	8.57	32.25	25.06	.578	0.65	.17	26
10	8.50	32.27	25.08	.581	0.62	.17	25
20	7.84	32.36	25.25	.583	0.75	.18	26
30	7.58	32.36	25.29	.555	0.80	.25	27
40	7.43	32.38	25.32	.549	0.90	.23	26
50	7.21	32.45	25.41	.525	0.90	.19	26
70	6.31	32.59	25.63	.512	1.18	.35	29
90	5.23	32.84	25.96	.454	1.75	.37	36
115	4.85	32.99	26.12	.544	1.80	.35	46

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.56	32.25	25.06	291.3	.000
10	8.50	32.27	25.08	289.1	.029
20	7.84	32.36	25.25	273.3	.057
30	7.58	32.36	25.29	270.0	.084
50	7.21	32.45	25.41	258.7	.137
75	6.01	32.64	25.71	229.9	.198
100	5.04	32.92	26.05	198.1	.252

## STATION 71

54-42 N 165-07 W 26 JUL 1940 1940 GCT  
 WEATHER O M Q BAR 30.02 WIND SW 3 SEA SW 1  
 TEMPERATURE DRY 49 WET 49 DEPTH 83

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.39	31.73	24.68	.532	0.72	.11	12
10	8.34	31.76	24.71	.532	0.76	.09	9
15	8.28	31.80	24.75	.528	0.75	.07	11
20	8.19	31.83	24.78	.528	0.75	.16	13
30	8.03	31.92	24.88	.530	0.78	.18	15
40	7.88	31.98	24.94	.532	0.80	.17	17
50	7.71	32.00	24.98	.519	0.90	.14	19
60	7.53	32.12	25.10	.519	0.94	.14	24
70	7.26	32.25	25.24	.518	1.06	.16	25
79	7.09	32.29	25.30	.509	1.14	.12	27

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.39	31.73	24.68	327.6	.000
10	8.34	31.76	24.71	324.8	.033
20	8.19	31.83	24.78	317.6	.065
30	8.03	31.92	24.88	308.9	.096
50	7.71	32.00	24.98	298.8	.157
75	7.17	32.27	25.27	271.9	.228

## STATION 72

56-26 N 160-08 W 01 AUG 1940 0551 GCT  
 WEATHER C Z BAR 29.89 WIND SW 4 SEA WSW 4  
 TEMPERATURE DRY 54 WET 51 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.13	30.37	23.18	.502	0.60	.00	18
5	11.06	30.37	23.19	.518	0.60	.00	13
10	11.09	30.37	23.19	.522	0.60	.00	10
15	11.10	30.39	23.20	.524	0.60	.00	17

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.13	30.37	23.18	470.4	.000
10	11.09	30.37	23.19	469.9	.047

## STATION 73

56-34 N 160-16 W 01 AUG 1940 0750 GCT  
 WEATHER C BAR 29.88 WIND SW 2 SEA WSW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.00	31.27	24.07	.574	0.38	.00	2
5	9.96	31.27	24.07	.575	0.37	.00	4
10	9.96	31.29	24.09	.574	0.38	.00	1
15	9.85	31.36	24.16	.578	0.40	.00	2
25	9.84	31.42	24.21	.574	0.35	.00	3
35	9.80	31.44	24.23	.572	0.36	.00	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.00	31.27	24.07	385.6	.000
10	9.96	31.29	24.09	383.6	.038
20	9.85	31.39	24.18	374.7	.076
30	9.82	31.43	24.22	371.4	.113

## STATION 74

56-43 N 160-24 W 01 AUG 1940 0948 GCT  
 WEATHER C BAR 29.86 WIND CALM SEA WSW 1  
 TEMPERATURE DRY 52 WET 50 DEPTH 63

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.15	31.64	24.16	.554	0.07	.00	2
10	11.11	31.64	24.17	.556	0.08	.00	2
20	11.07	31.64	24.17	.536	0.35	.00	3
30	4.65	31.67	25.10	.507	0.90	.19	14
40	4.60	31.86	25.26	.500	0.92	.19	16
50	4.52	31.76	25.18	.504	0.92	.16	14
59	4.50	31.76	25.19	.502	0.96	.13	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.15	31.64	24.16	376.8	.000
10	11.11	31.64	24.17	376.3	.038
20	11.07	31.64	24.17	375.9	.076
30	4.65	31.67	25.10	287.4	.109
50	4.52	31.76	25.18	279.5	.166

## STATION 75

56-53 N 160-30 W 01 AUG 1940 1221 GCT  
 WEATHER C BAR 29.82 WIND CALM SEA WSW 2  
 TEMPERATURE DRY 52 WET 51 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.24	31.69	24.18	.560	0.00	.00	2
10	10.98	31.73	24.26	.572	0.00	.00	2
20	9.39	31.73	24.52	.555	0.22	.00	4
25	3.91	31.83	25.30	.538	1.00	.13	20
30	3.96	31.82	25.29	.546	0.95	.12	11
40	3.89	31.82	25.29	.544	0.95	.10	12
50	3.89	31.85	25.32	.543	0.93	.10	16
64	3.89	31.85	25.32	.548	0.90	.10	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.24	31.69	24.18	374.6	.000
10	10.98	31.73	24.26	367.5	.037
20	9.39	31.73	24.52	342.4	.072
30	3.96	31.82	25.29	269.5	.103
50	3.89	31.85	25.32	266.7	.157

## STATION 76

57-01 N 160-40 W 01 AUG 1940 1413 GCT  
 WEATHER C BAR 29.81 WIND SE 2 SEA WSW 2  
 TEMPERATURE DRY 53 WET 52 DEPTH 67

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.65	31.76	24.34	.596	0.00	.00	1
10	10.60	31.76	24.35	.599	0.00	.00	1
20	4.32	31.94	25.35	.586	1.00	.09	22
25	4.27	31.94	25.35	.583	0.98	.09	24
30	4.29	31.92	25.33	.579	0.98	.09	20
40	4.25	31.92	25.34	.580	1.00	.09	20
50	4.28	31.92	25.34	.581	0.95	.08	20
60	4.27	31.96	25.37	.580	0.95	.08	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.65	31.76	24.34	359.6	.000
10	10.60	31.76	24.35	359.0	.036
20	4.32	31.94	25.35	263.8	.067
30	4.29	31.92	25.33	265.0	.093
50	4.28	31.92	25.34	265.1	.146

## STATION 77

57-10 N 160-48 W 01 AUG 1940 1635 GCT  
 WEATHER O Z BAR 29.78 WIND S 2 SEA WSW 2  
 TEMPERATURE DRY 53 WET 52 DEPTH 64

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.64	31.71	24.47	.622	0.00	.00	2
10	9.29	31.73	24.54	.625	0.00	.00	2
15	4.27	31.92	25.34	.583	0.95	.07	20
20	4.04	31.92	25.36	.590	0.90	.10	20
30	4.08	31.92	25.36	.587	0.90	.10	20
40	4.03	31.94	25.38	.577	0.89	.08	20
50	4.03	31.96	25.39	.585	0.90	.08	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.64	31.71	24.47	347.4	.000
10	9.29	31.73	24.54	340.8	.034
20	4.04	31.92	25.36	262.6	.064
30	4.08	31.92	25.36	263.1	.090
50	4.03	31.96	25.39	259.7	.142

## STATION 78

57-19 N 160-55 W 01 AUG 1940 1838 GCT  
 WEATHER 0 Z BAR 29.77 WIND SE 3 SEA WSW 2  
 TEMPERATURE DRY 52 WET 50 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.93	31.73	24.44	.618	0.10	.00	6
10	9.57	31.73	24.49	.600	0.14	.00	4
15	4.39	31.91	25.32	.557	0.92	.04	22
20	4.31	32.94	26.14	.557	0.90	.08	28
30	4.36	32.94	26.14	.555	0.96	.07	23
40	4.30	32.92	26.13	.557	0.95	.07	23
50	4.32	32.94	26.14	.558	0.95	.06	24
60	4.30	31.91	25.33	.575	0.85	.06	23

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	9.93	31.73	24.44	350.4	.000
10	9.57	31.73	24.49	345.0	.035
20	4.31	32.94	26.14	188.4	.062
30	4.36	32.94	26.14	189.0	.081
50	4.32	32.94	26.14	188.7	.119

## STATION 79

57-28 N 161-04 W 01 AUG 1940 2030 GCT  
 WEATHER 0 Z BAR 29.76 WIND SE 2 SEA WSW 2  
 TEMPERATURE DRY 52 WET 50 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.84	31.87	24.39	.543	0.04	.00	3
10	10.31	31.85	24.47	.596	0.05	.00	3
15	10.05	31.85	24.51	.576	0.16	.00	4
20	5.75	31.91	25.17	.540	0.53	.06	14
30	4.87	31.91	25.27	.553	0.86	.07	16
40	4.77	31.92	25.28	.549	0.84	.08	21
57	4.76	31.94	25.30	.551	0.84	.07	23

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	10.84	31.87	24.39	354.6	.000
10	10.31	31.85	24.47	347.7	.035
20	5.75	31.91	25.17	281.0	.066
30	4.87	31.91	25.27	271.6	.094
50	4.76	31.93	25.29	269.1	.148



## STATION 80

57-37 N 161-11 W 01 AUG 1940 2308 GCT  
 WEATHER O Z BAR 29.75 WIND ESE 3 SEA WSW 2  
 TEMPERATURE DRY 53 WET 51 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.28	31.91	24.52	.686	0.05	.00	5
10	10.09	31.85	24.50	.605	0.00	.00	4
15	10.03	31.85	24.51	.586	0.00	.00	4
20	6.72	31.91	25.05	.512	0.40	.03	10
30	5.36	31.96	25.25	.510	0.58	.05	11
40	5.30	31.96	25.26	.508	0.65	.05	12
54	5.30	31.96	25.26	.508	0.68	.06	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.28	31.91	24.52	342.6	.000
10	10.09	31.85	24.50	344.2	.034
20	6.72	31.91	25.05	292.4	.066
30	5.36	31.96	25.25	273.0	.094
50	5.30	31.96	25.26	272.5	.149

## STATION 81

57-46 N 161-20 W 02 AUG 1940 0050 GCT  
 WEATHER C BAR 29.73 WIND ESE 3 SEA WSW 1  
 TEMPERATURE DRY 53 WET 51 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.21	31.89	24.51	.610	0.05	.00	2
10	8.88	31.87	24.71	.591	0.10	.00	2
15	6.19	31.91	25.11	.544	0.50	.02	5
20	6.17	31.92	25.12	.542	0.52	.02	6
30	6.19	31.92	25.12	.535	0.70	.02	6
40	6.13	31.94	25.15	.536	0.60	.01	10
45	6.17	31.94	25.14	.527	0.63	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.21	31.89	24.51	342.9	.000
10	8.88	31.87	24.71	324.3	.033
20	6.17	31.92	25.12	285.0	.063
30	6.19	31.92	25.12	285.4	.092

## STATION 82

57-56 N 161-28 W 02 AUG 1940 0304 GCT  
 WEATHER 0 Z BAR 29.72 WIND ESE 2 SEA WSW 2  
 TEMPERATURE DRY 53 WET 51 DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.08	31.58	24.12	.623	0.32	.00	6
10	8.95	31.87	24.70	.588	0.25	.00	2
15	6.75	31.92	25.05	.517	0.33	.01	3
20	6.61	31.92	25.07	.512	0.48	.01	6
30	6.52	31.92	25.08	.510	0.50	.02	6
35	6.38	31.92	25.10	.493	0.50	.01	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	11.08	31.58	24.12	380.1	.000
10	8.95	31.87	24.70	325.3	.035
20	6.61	31.92	25.07	290.3	.066
30	6.52	31.92	25.08	289.3	.095

## STATION 83

58-05 N 161-35 W 02 AUG 1940 0455 GCT  
 WEATHER 0 BAR 29.70 WIND E 3 SEA WSW 2  
 TEMPERATURE DRY 53 WET 52 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.97	30.30	22.98	.555	0.34	.00	5
5	11.68	30.37	23.08	.558	0.32	.00	5
10	7.83	31.74	24.76	.531	0.30	.00	6
15	7.61	31.78	24.83	.526	0.33	.01	8
20	7.60	31.78	24.83	.526	0.33	.00	9
30	7.49	31.82	24.87	.523	0.36	.00	8
39	7.49	31.83	24.88	.523	0.35	.00	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	11.97	30.30	22.98	489.8	.000
10	7.83	31.74	24.76	319.3	.040
20	7.60	31.78	24.83	313.4	.072
30	7.49	31.82	24.87	309.0	.103

## STATION 84

58-14 N 161-43 W 02 AUG 1940 0646 GCT  
 WEATHER 0 BAR 29.77 WIND SE 3 SEA WSW 2  
 TEMPERATURE DRY 52 WET 50 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.73	30.07	22.84	.552	0.28	.00	4
5	11.69	30.08	22.86	.560	0.34	.00	5
10	8.96	30.95	23.98	.547	0.34	.00	7
20	8.13	31.44	24.49	.526	0.33	.01	7
34	8.12	31.47	24.51	.528	0.32	.02	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.73	30.07	22.84	502.7	.000
10	8.96	30.95	23.98	393.9	.045
20	8.13	31.44	24.49	345.8	.082
30	8.12	31.46	24.50	344.3	.117

## STATION 85

58-23 N 161-52 W 02 AUG 1940 0850 GCT  
 WEATHER 0 BAR 29.68 WIND ENE 3 SEA SW 1  
 TEMPERATURE DRY 53 WET 51 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.92	30.12	22.84	.548	0.32	.00	4
5	11.67	30.16	22.92	.551	0.30	.00	4
10	8.24	31.20	24.28	.528	0.34	.00	4
20	8.16	31.27	24.35	.525	0.35	.00	4
30	7.92	31.36	24.45	.527	0.35	.01	4
39	7.90	31.44	24.52	.527	0.35	.01	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.92	30.12	22.84	502.2	.000
10	8.24	31.20	24.28	365.1	.043
20	8.16	31.27	24.35	358.9	.079
30	7.92	31.36	24.45	349.1	.114

## STATION 86

58-31 N 162-00 W 02 AUG 1940 1050 GCT  
 WEATHER 0 BAR 29.68 WIND ESE 3 SEA SW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.34	30.39	23.16	.543	0.42	.00	4
5	11.28	30.37	23.15	.533	0.38	.00	2
10	11.14	30.44	23.23	.536	0.36	.00	2
20	10.53	30.55	23.42	.520	0.40	.00	3
35	8.70	31.04	24.09	.505	0.39	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.34	30.39	23.16	472.4	.000
10	11.14	30.44	23.23	465.6	.047
20	10.53	30.55	23.42	447.7	.093
30	9.32	30.78	23.79	412.1	.136

## STATION 87

58-27 N 161-35 W 02 AUG 1940 1548 GCT  
 WEATHER C Z BAR 29.64 WIND ENE 4 SEA SW 2  
 TEMPERATURE DRY 54 WET 52 DEPTH 27

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.97	30.55	23.51	.531	0.30	.03	11
10	9.95	30.55	23.52	.529	0.30	.02	10
15	9.95	30.55	23.52	.530	0.30	.02	8
20	9.97	30.59	23.54	.528	0.40	.03	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.97	30.55	23.51	438.5	.000
10	9.95	30.55	23.52	438.4	.044
20	9.97	30.59	23.54	435.9	.088

## STATION 88

58-17 N 161-27 W 02 AUG 1940 1736 GCT  
 WEATHER C Z BAR 29.64 WIND E 6 SEA E 3  
 TEMPERATURE DRY 55 WET 53 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	11.02	30.21	23.07	.557	0.20	.00	4
10	10.95	30.59	23.38	.554	0.20	.00	4
15	8.95	30.59	23.70	.557	0.20	.01	7
20	8.92	30.61	23.72	.524	0.30	.01	7
30	8.95	30.61	23.72	.528	0.30	.02	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.02	30.21	23.07	480.4	.000
10	10.95	30.59	23.38	451.3	.047
20	8.92	30.61	23.72	418.7	.091
30	8.95	30.61	23.72	419.3	.133

## STATION 89

58-09 N 161-20 W 02 AUG 1940 1915 GCT  
 WEATHER C BAR 29.62 WIND E 4 SEA E 4  
 TEMPERATURE DRY 55 WET 53 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	11.79	30.25	22.97	.555	0.73	.00	10
10	11.73	30.25	22.98	.546	0.73	.00	2
15	9.79	31.26	24.09	.550	0.44	.00	2
20	8.23	31.62	24.61	.518	0.73	.00	20
30	8.17	31.64	24.64	.523	0.56	.00	3
40	8.12	31.65	24.65	.517	0.60	.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.79	30.25	22.97	490.4	.000
10	11.73	30.25	22.98	489.5	.049
20	8.23	31.62	24.61	333.8	.090
30	8.17	31.64	24.64	331.6	.123

## STATION 90

58-00 N 161-11 W 02 AUG 1940 2124 GCT  
 WEATHER BC BAR 29.63 WIND E 6 SEA E 4  
 TEMPERATURE DRY 56 WET 54 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.64	31.42	24.08	.589	0.24	.00	0
10	9.60	31.58	24.37	.567	0.32	.00	2
15	7.41	31.91	24.96	.523	0.48	.00	2
20	7.40	31.91	24.96	.524	0.46	.00	3
30	7.38	31.91	24.96	.523	0.44	.00	3
42	7.31	31.91	24.97	.521	0.43	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.64	31.42	24.08	384.6	.000
10	9.60	31.58	24.37	356.6	.037
20	7.40	31.91	24.96	301.0	.070
30	7.38	31.91	24.96	300.9	.100

## STATION 91

57-50 N 161-04 W 02 AUG 1940 2347 GCT  
 WEATHER C BAR 29.60 WIND E 6 SEA E 6  
 TEMPERATURE DRY 56 WET 54 DEPTH 46

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.99	31.85	24.52	.613	0.05	.00	4
10	9.93	31.85	24.53	.612	0.05	.00	5
15	8.68	31.87	24.74	.578	0.08	.00	4
20	6.75	31.92	25.05	.523	0.37	.00	9
30	6.72	31.92	25.06	.523	0.33	.00	12
42	6.67	31.92	25.06	.520	0.37	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.99	31.85	24.52	342.4	.000
10	9.93	31.85	24.53	341.7	.034
20	6.75	31.92	25.05	292.0	.066
30	6.72	31.92	25.06	291.8	.095

## STATION 92

57-42 N 160-55 W 03 AUG 1940 0158 GCT  
 WEATHER O D BAR 29.56 WIND E 6 SEA E 6  
 TEMPERATURE DRY 56 WET 55 DEPTH 53

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.53	31.87	24.44	.611	0.00	.00	4
10	10.49	31.92	24.49	.616	0.00	.00	4
15	10.49	31.89	24.47	.507	0.00	.00	4
20	10.54	31.87	24.44	.532	0.00	.00	5
30	6.08	31.91	25.13	.513	0.45	.00	10
40	5.61	31.94	25.21	.615	0.68	.04	12
48	5.61	31.94	25.21	.507	0.63	.04	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.53	31.87	24.44	349.6	.000
10	10.49	31.92	24.49	345.4	.035
20	10.54	31.87	24.44	350.1	.070
30	6.08	31.91	25.13	284.8	.102

## STATION 93

57-33 N 160-46 W 03 AUG 1940 0414 GCT  
 WEATHER O P BAR 29.51 WIND E 7 SEA E 7  
 TEMPERATURE DRY 52 WET 52 DEPTH 59

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.43	31.85	24.45	.617			
10	10.42	31.83	24.43	.616			
15	10.13	31.83	24.48	.609			
20	5.65	31.85	25.13	.527			
30	5.42	31.87	25.17	.526			
40	5.21	31.92	25.24	.518			
50	5.21	31.92	25.24	.517			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.43	31.85	24.45	349.4	.000
10	10.42	31.83	24.43	350.9	.035
20	5.65	31.85	25.13	284.3	.067
30	5.42	31.87	25.17	280.4	.095
50	5.21	31.92	25.24	274.6	.150

## STATION 94

57-23 N 160-43 W 03 AUG 1940 0732 GCT  
 WEATHER BC BAR 29.46 WIND ENE 2 SEA ENE 4  
 TEMPERATURE DRY 52 WET 51 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.06	31.62	24.49	.584	0.05	.00	2
10	8.92	31.64	24.53	.586	0.10	.00	1
15	8.81	31.65	24.55	.586	0.08	.00	2
20	6.35	31.82	25.02	.568	0.50	.00	12
30	4.77	31.94	25.30	.551	0.65	.00	19
40	4.72	31.94	25.31	.550	0.70	.00	17
50	4.73	31.92	25.29	.553	0.70	.00	18
60	4.70	31.94	25.31	.546	0.75	.00	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.06	31.62	24.49	345.4	.000
10	8.92	31.64	24.53	342.0	.034
20	6.35	31.82	25.02	294.7	.066
30	4.77	31.94	25.30	268.3	.094
50	4.73	31.92	25.29	269.5	.148

## STATION 95

57-12 N 160-33 W 03 AUG 1940 2300 GCT  
 WEATHER BC BAR 29.48 WIND ENE 2 SEA ENE 3  
 TEMPERATURE DRY 52 WET 51 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.32	31.76	24.39	.577	0.00	.02	2
10	9.90	31.78	24.48	.576	0.05	.00	2
15	9.85	31.78	24.49	.570	0.05	.00	3
20	5.49	31.91	25.20	.567	0.78	.07	20
25	4.45	31.96	25.35	.562	0.65	.07	20
30	4.39	31.96	25.36	.559	0.80	.06	17
45	4.39	31.94	25.34	.559	0.78	.06	23
60	4.34	31.94	25.35	.558	0.80	.08	24

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.32	31.76	24.39	354.3	.000
10	9.90	31.78	24.48	346.4	.035
20	5.49	31.91	25.20	278.1	.066
30	4.39	31.96	25.36	263.0	.093
50	4.37	31.94	25.34	264.5	.146



## STATION 96

57-03 N 160-25 W 04 AUG 1940 0018 GCT  
 WEATHER C BAR 29.48 WIND ENE 2 SEA ENE 3  
 TEMPERATURE DRY 53 WET 51 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	11.09	31.76	24.26	.561	0.00	.00	2
10	10.62	31.76	24.34	.563	0.00	.00	2
15	10.29	31.76	24.40	.564	0.03	.00	3
20	4.51	31.89	25.29	.571	0.80	.09	23
30	4.34	31.94	25.35	.570	0.82	.09	25
40	4.29	31.92	25.33	.569	0.90	.09	25
50	4.30	31.92	25.33	.568	0.85	.09	26
60	4.29	31.91	25.33	.570	0.80	.09	25

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.09	31.76	24.26	366.9	.000
10	10.62	31.76	24.34	359.3	.036
20	4.51	31.89	25.29	269.4	.067
30	4.34	31.94	25.35	264.0	.094
50	4.30	31.92	25.33	265.3	.147

## STATION 97

56-54 N 160-17 W 04 AUG 1940 0226 GCT  
 WEATHER C BAR 29.47 WIND ENE 3 SEA ENE 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	MIT	SIL
0	11.20	31.64	24.15	.539	0.00	.00	1
10	11.08	31.67	24.19	.540	0.00	.00	1
15	10.83	31.67	24.24	.537	0.00	.00	1
20	4.44	31.83	25.25	.540	0.63	.11	16
30		31.85	25.28	.538	0.70	.11	10
40	4.15	31.85	25.29	.546	0.70	.09	11
50	4.17	31.85	25.29	.546	0.70	.09	12
60	4.15	32.00	25.41	.548	0.70	.10	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.20	31.64	24.15	377.6	.000
10	11.08	31.67	24.19	373.6	.038
20	4.44	31.83	25.25	273.2	.070
30	4.23	31.85	25.28	269.7	.097
50	4.17	31.85	25.29	269.3	.151

## STATION 98

56-47 N 160-04 W 04 AUG 1940 0433 GCT  
 WEATHER C BAR 29.48 WIND E 2 SEA ENE 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.54	31.36	23.87	.552	0.34	.00	0
10	11.02	31.51	24.08	.555	0.34	.00	0
15	10.95	31.51	24.09	.555	0.24	.00	2
20	10.89	31.55	24.13	.549	0.32	.00	3
30	4.94	31.78	25.16	.529	0.92	.07	10
40	4.54	31.82	25.23	.536		.08	11
55	4.47	31.82	25.24	.537	0.86	.08	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.54	31.36	23.87	404.1	.000
10	11.02	31.51	24.08	384.4	.039
20	10.89	31.55	24.13	379.5	.077
30	4.94	31.78	25.16	282.1	.110
50	4.48	31.82	25.24	274.6	.166

## STATION 99

56-38 N 159-56 W 04 AUG 1940 0635 GCT  
 WEATHER C BAR 29.51 WIND E 2 SEA ENE 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 47

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.90	31.06	23.75	.562	0.46	.00	2
10	10.18	31.27	24.04	.561	0.44	.00	2
15	10.09	31.27	24.05	.566	0.44	.00	2
20	10.08	31.29	24.07	.555	0.50	.00	3
25	9.47	31.44	24.28	.535	0.56	.00	2
30	8.59	31.53	24.49	.513	0.82	.02	4
42		31.53	24.55	.512	0.86	.02	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.90	31.06	23.75	415.5	.000
10	10.18	31.27	24.04	388.6	.040
20	10.08	31.29	24.07	385.7	.079
30	8.59	31.53	24.49	345.7	.116

## STATION 100

56-42 N 159-27 W 04 AUG 1940 1019 GCT  
 WEATHER BC BAR 29.53 WIND E 2 SEA ENE 1  
 TEMPERATURE DRY 52 WET 51 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.94	31.18	23.84	.563	0.36	.00	1
10	10.49	31.20	23.93	.561	0.33	.00	1
20	8.74	31.53	24.47	.514	0.54	.02	3
27	8.75	31.53	24.47	.512	0.54	.02	3
35	8.76	31.55	24.48	.512	0.48	.02	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.94	31.18	23.84	407.3	.000
10	10.49	31.20	23.93	398.7	.040
20	8.74	31.53	24.47	347.7	.077
30	8.75	31.54	24.47	347.3	.112

## STATION 101

56-53 N 159-36 W 04 AUG 1940 1107 GCT  
 WEATHER C BAR 29.56 WIND ENE 1 SEA 0  
 TEMPERATURE DRY 51 WET 51 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.04	31.47	24.05	.559	0.18	.00	1
10	10.69	31.67	24.26	.558	0.18	.00	0
15	9.80	31.65	24.40	.547	0.23	.00	2
20	6.80	31.67	24.85	.505	0.58	.03	9
35	6.73	31.67	24.86	.501	0.58	.01	9
53	6.66	31.67	24.87	.502	0.62	.01	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.04	31.47	24.05	387.5	.000
10	10.69	31.67	24.26	367.1	.038
20	6.80	31.67	24.85	311.3	.072
30	6.75	31.67	24.86	310.8	.103
50	6.67	31.67	24.87	310.1	.165

## STATION 102

57-03 N 159-45 W 04 AUG 1940 1300 GCT  
 WEATHER BC Z BAR 29.58 WIND ENE 1 SEA E 1  
 TEMPERATURE DRY 52 WET 51 DEPTH 62

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.69	31.71	24.29	.554	0.00	.00	1
10	10.40	31.69	24.33	.552	0.12	.00	2
15	10.02	31.69	24.39	.560	0.12	.00	1
20	6.69	31.74	24.92	.549	0.43	.04	10
30	5.38	31.80	25.12	.562	0.60	.05	13
40	5.29	31.80	25.13	.560	0.68	.05	12
55	5.30	31.80	25.13	.559	0.70	.07	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.69	31.71	24.29	364.0	.000
10	10.40	31.69	24.33	361.0	.036
20	6.69	31.74	24.92	304.7	.069
30	5.38	31.80	25.12	285.2	.098
50	5.28	31.80	25.13	284.3	.155

## STATION 103

57-14 N 159-55 W 04 AUG 1940 1501 GCT  
 WEATHER BC BAR 29.61 WIND CALM SEA E 1  
 TEMPERATURE DRY 52 WET 51 DEPTH 61

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.10	31.67	24.36	.572	0.10	.00	0
10	9.37	31.65	24.46	.583	0.15	.00	0
15	7.75	31.65	24.70	.564	0.40	.01	1
20	6.29	31.73	24.96	.551	0.65	.05	10
30	5.91	31.76	25.03	.547	0.70	.08	12
40	5.87	31.74	25.02	.548	0.65	.05	12
55	5.88	31.74	25.02	.543	0.75	.06	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.10	31.67	24.36	357.5	.000
10	9.37	31.65	24.46	347.9	.035
20	6.29	31.73	24.96	300.7	.067
30	5.91	31.76	25.03	294.1	.097
50	5.87	31.74	25.02	295.3	.156

## STATION 104

57-24 N 160-04 W 04 AUG 1940 1657 GCT  
 WEATHER C BAR 29.65 WIND W 1 SEA E 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 60

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.80	31.53	24.30	.581	0.18	.00	1
10	9.38	31.51	24.35	.599	0.18	.00	1
15	9.36	31.51	24.36	.603	0.15	.00	1
20	9.38	31.51	24.35	.598	0.15	.00	4
30	7.15	31.65	24.79	.551	0.43	.03	10
40	7.03	31.73	24.87	.509	0.60	.00	11
55	5.97	31.74	25.01	.537	0.65	.06	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.80	31.53	24.30	363.2	.000
10	9.38	31.51	24.35	358.5	.036
20	9.38	31.51	24.35	358.6	.072
30	7.15	31.65	24.79	317.3	.106
50	6.44	31.75	24.96	301.3	.168

## STATION 105

57-35 N 160-13 W 04 AUG 1940 1850 GCT  
 WEATHER C BAR 29.67 WIND SW 1 SEA E 1  
 TEMPERATURE DRY 52 WET 51 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.03	31.49	24.23	.597	0.15	.00	1
10	9.29	31.49	24.35	.594	0.15	.00	1
20	7.08	31.67	24.81	.535	0.30	.02	8
25	7.11	31.67	24.81	.533	0.55	.01	8
30	7.11	31.67	24.81	.533	0.55	.02	8
40	7.05	31.69	24.83	.529	0.58	.02	8
52	7.05	31.69	24.83	.616	0.60	.02	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.03	31.49	24.23	369.7	.000
10	9.29	31.49	24.35	358.6	.036
20	7.08	31.67	24.81	314.8	.070
30	7.11	31.67	24.81	315.3	.102
50	7.04	31.69	24.83	313.2	.165

## STATION 106

57-45 N 160-22 W 04 AUG 1940 2235 GCT  
 WEATHER BC BAR 29.71 WIND SW 1 SEA WSW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.72	31.62	24.38	.616	0.10	.00	2
10	8.91	31.62	24.51	.604	0.23	.01	1
15	8.90	31.65	24.54	.586	0.25	.00	2
20	8.79	31.62	24.53	.578	0.25	.00	3
25	7.16	31.80	24.90	.527	0.62	.03	16
40	7.10	31.80	24.91	.526	0.70	.03	18
52	7.10	31.80	24.91	.525	0.75	.03	17

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.72	31.62	24.38	355.3	.000
10	8.91	31.62	24.51	343.3	.035
20	8.79	31.62	24.53	341.7	.069
30	7.13	31.80	24.91	305.9	.101
50	7.10	31.80	24.91	305.7	.162

## STATION 107

57-50 N 160-23 W 04 AUG 1940 2340 GCT  
 WEATHER BC BAR 29.71 WIND WSW 1 SEA SW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.18	31.73	24.39	.615	0.10	.00	1
10	9.17	31.73	24.56	.612	0.12	.00	1
20	8.72	31.74	24.63	.572	0.23	.00	2
25	7.25	31.80	24.89	.527	0.45	.03	12
30	7.14	31.80	24.91	.525	0.50	.03	12
40	7.08	31.80	24.91	.523	0.50	.03	13
50	7.05	31.82	24.93	.513	0.55	.03	13

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.18	31.73	24.39	354.3	.000
10	9.17	31.73	24.56	339.0	.035
20	8.72	31.74	24.63	331.8	.069
30	7.14	31.80	24.91	306.0	.101
50	7.05	31.82	24.93	303.6	.162

## STATION 108

57-58 N 160-30 W 05 AUG 1940 0201 GCT  
 WEATHER F BAR 29.74 WIND WNW 3 SEA SW 1  
 TEMPERATURE DRY 51 WET 51 DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.38	31.53	24.03	.612	0.18	.00	2
10	9.27	31.74	24.55	.604	0.25	.01	2
20	7.39	31.85	24.91	.511	0.42	.01	4
25	7.38	31.97	24.93	.508	0.40	.02	7
30	7.39	31.89	24.94	.308	0.45	.02	7
45	7.32	31.89	24.95	.499	0.45	.01	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	11.38	31.53	24.03	388.8	.000
10	9.27	31.74	24.55	339.7	.036
20	7.39	31.85	24.91	305.4	.068
30	7.39	31.89	24.94	302.5	.098

## STATION 109

58-08 N 160-39 W 05 AUG 1940 0333 GCT  
 WEATHER F BAR 29.74 WIND W 4 SEA W 2  
 TEMPERATURE DRY 52 WET 52 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.49	30.91	23.53	.615		.00	8
5	11.45	30.91	23.54	.640		.00	8
10	11.35	30.91	23.56	.637		.00	12
20	7.85	31.83	24.83	.531		.00	10
30	7.80	31.85	24.85	.530		.00	11
37	7.79	31.85	24.86	.506		.00	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	11.49	30.91	23.53	436.5	.000
10	11.35	30.91	23.56	434.3	.044
20	7.85	31.83	24.83	313.0	.081
30	7.80	31.85	24.85	310.9	.112

## STATION 110

58-18 N 160-48 W 05 AUG 1940 0600 GCT  
 WEATHER BC Z BAR 29.75 WIND WNW 5 SEA W 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 36

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.99	30.66	23.25	.553		.00	9
10	11.83	30.68	23.29	.547		.00	7
15	10.10	31.06	23.89	.523		.00	12
20	9.54	31.20	24.09	.509		.01	13
32	9.40	31.26	24.16	.506		.02	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.99	30.66	23.25	463.6	.000
10	11.83	30.68	23.29	459.5	.046
20	9.54	31.20	24.09	384.0	.088
30	9.31	31.28	24.18	374.8	.126

## STATION 111

58-26 N 160-55 W 05 AUG 1940 0758 GCT  
 WEATHER O Z BAR 29.78 WIND WNW 4 SEA W 1  
 TEMPERATURE DRY 55 WET 53 DEPTH 25

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	13.55	29.72	22.23	.525		.00	6
10	13.09	29.81	22.39	.510		.01	6
15	12.90	29.87	22.47	.508		.01	7
21	12.21	29.88	22.61	.510		.01	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	13.55	29.72	22.23	561.1	.000
10	13.09	29.81	22.39	546.1	.055
20	12.36	29.88	22.58	528.0	.109



## STATION 112

58-21 N 160-30 W 05 AUG 1940 0949 GCT  
 WEATHER C BAR 29.78 WIND WNW 4 SEA W 1  
 TEMPERATURE DRY 55 WET 54 DEPTH 18

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.99	30.57	23.18	.516		.00	8
7	11.97	30.57	23.18	.517		.00	6
15	11.96	30.57	23.19	.514		.00	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.99	30.57	23.18	470.2	.000
10	11.96	30.57	23.19	469.9	.047

## STATION 113

58-12 N 160-22 W 05 AUG 1940 1140 GCT  
 WEATHER O BAR 29.75 WIND WNW 3 SEA W 1  
 TEMPERATURE DRY 56 WET DEPTH 41

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.73	30.77	23.38	.565	0.05	.00	0
10	11.60	30.84	23.46	.580	0.02	.00	0
15	9.53	31.35	24.20	.544	0.20	.00	2
20	8.35	31.67	24.63	.512	0.20	.02	3
30	8.36	31.67	24.63	.511	0.43	.02	4
37	8.32	31.67	24.64	.512	0.40	.02	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.73	30.77	23.38	450.9	.000
10	11.60	30.84	23.46	443.7	.045
20	8.35	31.67	24.63	331.8	.084
30	8.36	31.67	24.63	332.0	.117

## STATION 114

58-03 N 160-14 W 05 AUG 1940 1338 GCT  
 WEATHER C BAR 29.74 WIND SW 4 SEA WNW 3  
 TEMPERATURE DRY 50 WET 50 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.69	30.70	23.33	.506	0.17	.00	1
10	11.59	30.70	23.35	.570	0.17	.01	1
15	8.50	31.71	24.64	.506	0.10	.01	2
20	8.21	31.82	24.77	.510	0.22	.02	3
30	8.18	31.83	24.78	.502	0.20	.02	3
45	8.14	31.85	24.81	.510	0.40	.02	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.69	30.70	23.33	455.4	.000
10	11.59	30.70	23.35	453.9	.045
20	8.21	31.82	24.77	318.7	.084
30	8.18	31.83	24.78	317.6	.116

## STATION 115

57-54 N 160-06 W 05 AUG 1940 1537 GCT  
 WEATHER C Z BAR 29.72 WIND SW 6 SEA WNW 4  
 TEMPERATURE DRY 50 WET 50 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.94	31.27	23.91	.626	0.08	.00	2
10	10.93	31.29	23.93	.630	0.08	.01	2
15	8.59	31.74	24.65	.526	0.18	.01	8
20	8.31	31.83	24.77	.496	0.20	.02	10
30	8.32	31.83	24.76	.492	0.20	.03	10
45	8.21	31.85	24.80	.544	0.20	.02	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.94	31.27	23.91	400.7	.000
10	10.93	31.29	23.93	399.2	.040
20	8.31	31.83	24.77	319.3	.076
30	8.32	31.83	24.76	319.6	.108

## STATION 116

57-45 N 159-58 W 05 AUG 1940 1727 GCT  
 WEATHER 0 Z BAR 29.67 WIND SW 6 SEA WNW 4  
 TEMPERATURE DRY 50 WET 50 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.68	31.69	24.45	.610	0.10	.00	1
10	9.59	31.71	24.48	.626	0.10	.00	1
15	8.94	31.78	24.62	.566	0.15	.01	8
20	8.68	31.80	24.69	.543	0.18	.01	10
30	8.61	31.83	24.72	.537	0.25	.02	10
45	8.52	31.83	24.73	.535	0.42	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.68	31.69	24.45	349.5	.000
10	9.59	31.71	24.48	346.8	.035
20	8.68	31.80	24.60	326.8	.069
30	8.61	31.83	24.72	323.7	.102

## STATION 117

57-36 N 159-50 W 05 AUG 1940 1940 GCT  
 WEATHER 0 Z BAR 29.54 WIND SSE 4 SEA SW 4  
 TEMPERATURE DRY 51 WET 50 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.91	31.65	24.38	.591	0.28	.00	4
10	8.63	31.76	24.66	.540	0.31	.01	4
15	8.59	31.78	24.68	.553	0.40	.01	5
20	8.61	31.80	24.70	.554	0.39	.01	5
35	8.60	31.80	24.70	.551	0.40	.01	5
50	8.56	31.80	24.71	.548	0.40	.01	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.91	31.65	24.38	356.0	.000
10	8.63	31.76	24.66	328.9	.034
20	8.61	31.80	24.70	325.8	.067
30	8.61	31.80	24.70	325.9	.100
50	8.56	31.80	24.71	325.5	.165

## STATION 118

57-27 N 159-42 W 05 AUG 1940 2153 GCT  
 WEATHER O R Z BAR 29.49 WIND SSE 4 SEA SW 4  
 TEMPERATURE DRY 52 WET 52 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.40	31.51	24.19	.564	0.24	.00	1
5	10.39	31.51	24.19	.562	0.21	.00	2
10	8.83	31.60	24.51	.563	0.28	.00	3
15	7.70	31.64	24.70	.542	0.44	.02	6
25	7.68	31.65	24.71	.540	0.44	.02	6
40	7.67	31.67	24.73	.541	0.46	.01	6
53	7.68	31.67	24.73	.533	0.46	.02	6

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.40	31.51	24.19	374.1	.000
10	8.83	31.60	24.51	343.7	.036
20	7.69	31.64	24.71	325.0	.069
30	7.67	31.66	24.72	323.4	.101
50	7.68	31.67	24.73	323.0	.166

## STATION 119

57-18 N 159-34 W 05 AUG 1940 2337 GCT  
 WEATHER R BAR 29.42 WIND S 6 SEA SW 4  
 TEMPERATURE DRY 52 WET 51 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.43	31.49	24.17	.632	0.16	.01	0
10	10.41	31.53	24.20	.559	0.20	.01	0
15	9.60	31.60	24.39	.555	0.18	.00	0
20	9.37	31.64	24.46	.541	0.20	.00	1
30	6.93	31.69	24.85	.526	0.58	.08	12
40	6.83	31.69	24.86	.527	0.60	.08	13
50	6.81	31.74	24.90	.529	0.70	.08	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.43	31.49	24.17	376.1	.000
10	10.41	31.53	24.20	373.0	.037
20	9.37	31.64	24.46	348.8	.073
30	6.93	31.69	24.85	311.6	.106
50	6.81	31.74	24.90	306.6	.168

## STATION 120

57-09 N 159-26 W 06 AUG 1940 0145 GCT  
 WEATHER R BAR 29.35 WIND SSE 6 SEA SW 5  
 TEMPERATURE DRY 52 WET 52 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.73	31.56	24.17	.543	0.03	.00	1
10	10.71	31.62	24.22	.547	0.03	.00	1
15	10.69	31.62	24.22	.528	0.10	.00	2
20	10.38	31.64	24.29	.538	0.10	.00	2
30	7.46	31.65	24.75	.536	0.40	.04	10
40	7.35	31.65	24.76	.522	0.40	.03	11
50	7.30	31.65	24.77	.544	0.35	.03	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.73	31.56	24.17	375.8	.000
10	10.71	31.62	24.22	371.2	.037
20	10.38	31.64	24.29	364.5	.074
30	7.46	31.65	24.75	321.3	.108
50	7.30	31.65	24.77	319.5	.172

## STATION 121

57-00 N 159-18 W 06 AUG 1940 0353 GCT  
 WEATHER C BAR 29.30 WIND WSW 7 SEA SW 6  
 TEMPERATURE DRY 52 WET 52 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.60	31.27	23.97	.535	0.28	.00	5
10	10.57	31.33	24.02	.541	0.28	.00	3
15	10.50	31.33	24.03	.535	0.28	.01	4
20	10.49	31.33	24.03	.533	0.28	.02	4
30	10.17	31.46	24.19	.511	0.36	.02	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.60	31.27	23.97	395.1	.000
10	10.57	31.33	24.02	390.3	.039
20	10.49	31.33	24.03	389.3	.078
30	10.17	31.46	24.19	374.7	.116

## STATION 122

56-52 N 159-10 W 06 AUG 1940 0538 GCT  
 WEATHER C BAR 29.23 WIND WSW 7 SEA SW 6  
 TEMPERATURE DRY 52 WET 52 DEPTH 28

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.83	31.20	23.87	.543	0.26	.00	1
10	10.81	31.20	23.88	.538	0.26	.00	2
20	10.82	31.24	23.91	.538	0.32	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.83	31.20	23.87	404.0	.000
10	10.81	31.20	23.88	403.9	.040
20	10.82	31.24	23.91	401.3	.080

## STATION 123

57-13 N 158-30 W 08 AUG 1940 1734 GCT  
 WEATHER O BAR 29.66 WIND NW 4 SEA WNW 5  
 TEMPERATURE DRY 50 WET 48 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.20	31.04	23.69	.523	0.57	.00	10
12	11.20	31.06	23.70	.522	0.68	.01	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.20	31.04	23.69	421.5	.000

## STATION 124

57-40 N 158-52 W 08 AUG 1940 2137 GCT  
 WEATHER C 0 BAR 29.55 WIND WNW 5 SEA W 4  
 TEMPERATURE DRY 49 WET 48 DEPTH 49

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.01	31.64	24.51	.572	0.40	.00	9
10	8.98	31.64	24.52	.573	0.50	.00	2
20	8.99	31.65	24.52	.572	0.43	.00	2
30	9.00	31.65	24.52	.572	0.35	.00	1
45	9.04	31.65	24.52	.570	0.42	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.01	31.64	24.51	343.1	.000
10	8.98	31.64	24.52	342.9	.034
20	8.99	31.65	24.52	342.4	.068
30	9.00	31.65	24.52	342.7	.102

## STATION 125

58-06 N 159-19 W 09 AUG 1940 0223 GCT  
 WEATHER C BAR 29.44 WIND NNW 4 SEA W 3  
 TEMPERATURE DRY 50 WET 48 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.98	31.17	23.99	.578	0.45	.00	1
10	9.78	31.17	24.02	.578	0.40	.00	1
15	9.72	31.18	24.04	.569	0.48	.00	3
20	9.69	31.18	24.05	.562	0.43	.01	3
35	9.71	31.20	24.06	.556	0.45	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.98	31.17	23.99	392.7	.000
10	9.78	31.17	24.02	389.8	.039
20	9.69	31.18	24.05	387.8	.078
30	9.68	31.19	24.06	387.1	.117

## STATION 126

54-05 N 166-22 W 16 AUG 1940 0230 GCT  
 WEATHER C BAR 29.69 WIND WNW 3 SEA WNW 1  
 TEMPERATURE DRY 52 WET 51 DEPTH 79

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.94	32.32	25.20	.553	0.64	.12	20
5	7.92	32.29	25.18	.508	0.66	.12	20
10	7.92	32.30	25.19	.553	0.64	.12	20
15	7.94	32.30	25.19	.553	0.64	.13	22
20	7.95	32.30	25.19	.548	0.65	.15	24
30	7.85	32.32	25.22	.543	0.64	.15	22
45	7.81	32.34	25.24	.541	0.66	.12	22
60	7.62	32.41	25.32	.533	0.67	.10	25
74	6.33	32.75	25.76	.466	0.98	.10	32

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.94	32.32	25.20	277.4	.000
10	7.92	32.30	25.19	278.8	.028
20	7.95	32.30	25.19	279.3	.056
30	7.85	32.32	25.22	276.6	.084
50	7.88	32.33	25.22	276.6	.139

## STATION 127

54-07 N 166-16 W 16 AUG 1940 0358 GCT  
 WEATHER O Z BAR 29.71 WIND WNW 4 SEA WNW 5  
 TEMPERATURE DRY 47 WET 47 DEPTH 87

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.78	32.32	25.23	.540	0.62	.14	20
10	7.76	32.34	25.24	.540	0.64	.15	20
20	7.77	32.34	25.24	.540	0.68	.15	22
30	7.78	32.34	25.24	.540	0.68	.10	23
60	7.77	32.36	25.26	.538	0.74	.08	24
80	7.72	32.38	25.28	.538	0.72	.08	25

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	7.78	32.32	25.23	275.2	.000
10	7.76	32.34	25.24	273.6	.027
20	7.77	32.34	25.24	273.9	.054
30	7.78	32.34	25.24	274.2	.081
50	7.78	32.35	25.25	273.7	.136
75	7.74	32.37	25.27	272.0	.204



## STATION 128

54-10 N 166-10 W 16 AUG 1940 0529 GCT  
 WEATHER 0 BAR 29.71 WIND WNW 6 SEA WNW 5  
 TEMPERATURE DRY 47 WET 47 DEPTH 93

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.90	32.32	25.21	.551	0.66	.10	20
10	7.89	32.32	25.21	.550	0.66	.12	20
20	7.92	32.32	25.21	.551	0.66	.12	19
30	7.93	32.32	25.20	.549	0.65	.15	20
60	7.93	32.32	25.20	.550	0.65	.15	20
85	7.69	32.36	25.27	.599	0.68	.12	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.90	32.32	25.21	276.9	.000
10	7.89	32.32	25.21	276.9	.028
20	7.92	32.32	25.21	277.4	.056
30	7.93	32.32	25.20	277.7	.084
50	7.96	32.31	25.19	279.2	.140
75	7.81	32.34	25.24	275.2	.209

## STATION 129

54-14 N 166-03 W 16 AUG 1940 0730 GCT  
 WEATHER 0 BAR 29.71 WIND W 5 SEA W 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 105

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.96	32.36	25.23	.557	0.68	.13	20
8	7.91	32.36	25.24	.559	0.64	.12	20
23	7.92	32.39	25.26	.548	0.66	.15	18
48	7.93	32.45	25.31	.560	0.66	.12	27
73	7.73	32.57	25.43	.560	0.66	.13	18
90	7.44	32.59	25.48	.543	0.70	.15	20
96	7.28						

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.96	32.36	25.23	274.7	.000
10	7.91	32.36	25.24	274.1	.027
20	7.92	32.38	25.25	273.0	.054
30	7.94	32.40	25.27	271.9	.081
50	7.92	32.46	25.32	267.4	.135
75	7.71	32.57	25.43	255.8	.161

## STATION 130

54-16 N 165-55 W 16 AUG 1940 0914 GCT  
 WEATHER O M BAR 29.71 WIND W 5 SEA W 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 102

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.09	32.50	25.32	.576	0.77	.11	20
10	8.05	32.48	25.31	.573	0.80	.14	20
25	8.16	32.52	25.33	.575	0.80	.12	20
50	7.82	32.52	25.38	.564	0.98	.12	20
75	7.59	32.63	25.50	.565	1.00	.13	20
95	6.98	32.63	25.58	.535	1.05	.12	25

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.09	32.50	25.32	266.1	.000
10	8.05	32.48	25.31	267.1	.027
20	8.15	32.51	25.32	266.5	.054
30	8.08	32.51	25.33	265.6	.081
50	7.82	32.52	25.38	261.6	.134
75	7.59	32.63	25.50	250.7	.198

## STATION 131

54-17 N 165-49 W 16 AUG 1940 1048 GCT  
 WEATHER O M BAR 29.69 WIND W 5 SEA W 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 92

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.87	32.32	25.21	.558	1.00	.12	25
10	7.85	32.34	25.23	.545	1.02	.14	20
25	7.80	32.38	25.27	.542	1.00	.15	22
50	7.70	32.43	25.32	.543	1.00	.12	20
70	7.56	32.47	25.37	.521	1.00	.12	24
85	7.45	32.50	25.41	.519	1.35	.13	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.87	32.32	25.21	276.4	.000
10	7.85	32.34	25.23	274.8	.028
20	7.82	32.37	25.26	272.3	.055
30	7.79	32.39	25.28	270.6	.082
50	7.70	32.43	25.32	266.7	.136
75	7.52	32.48	25.39	260.9	.202

## STATION 132

54-19 N 155-40 W 16 AUG 1940 1230 GCT  
 WEATHER C P BAR 29.66 WIND W 4 SEA W 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 90

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.89	32.41	25.28	.564	0.92	.12	18
10	7.87	32.41	25.28	.562	0.92	.12	18
20	7.89	32.43	25.30	.564	0.95	.11	17
40	7.94	32.45	25.30	.567	0.95	.10	16
60	7.94	32.50	25.34	.575	0.95	.12	16
84	7.51	32.57	25.46	.545	0.93	.11	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.89	32.41	25.28	270.0	.000
10	7.87	32.41	25.28	269.9	.027
20	7.89	32.43	25.30	268.8	.054
30	7.92	32.44	25.30	268.6	.081
50	7.98	32.47	25.31	267.5	.135
75	7.73	32.54	25.40	259.2	.201

## STATION 133

54-20 N 165-32 W 16 AUG 1940 1420 GCT  
 WEATHER O D BAR 29.63 WIND WSW 4 SEA W 4  
 TEMPERATURE DRY 47 WET 47 DEPTH 127

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.25	32.38	25.20	.565	1.02	.09	18
10	8.23	32.36	25.19	.558	0.92	.10	18
40	7.61	32.57	25.45	.536	1.05	.12	20
65	7.32	32.57	25.49	.525	1.10	.10	25
90	7.18	32.57	25.50	.518	1.10	.10	26
112	7.05						

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.25	32.38	25.20	277.2	.000
10	8.23	32.36	25.19	278.6	.028
20	7.99	32.46	25.31	268.0	.055
30	7.78	32.53	25.30	260.0	.081
50	7.48	32.57	25.46	253.3	.132
75	7.26	32.57	25.40	250.1	.157

## STATION 134

54-21 N 165-28 W 16 AUG 1940 1612 GCT  
 WEATHER O D BAR 29.62 WIND W 4 SEA W 4  
 TEMPERATURE DRY 48 WET 47 DEPTH 115

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.11	32.30	25.16	.542	0.93	.10	20
20	7.81	32.38	25.27	.539	0.97	.12	22
40	7.58	32.45	25.36	.537	1.08	.12	26
60	7.00	32.61	25.56	.509	1.15	.13	31
80	6.72	32.68	25.65	.495	1.30	.12	31
100	6.55	32.68	25.67	.489	1.33	.12	32

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.11	32.30	25.16	281.2	.000
10	7.95	32.34	25.22	276.2	.028
20	7.81	32.38	25.27	271.4	.055
30	7.74	32.40	25.29	269.1	.082
50	7.25	32.54	25.47	252.5	.134
75	6.78	32.67	25.64	237.1	.195
100	6.55	32.68	25.67	233.7	.254

## STATION 135

54-24 N 165-22 W 16 AUG 1940 1752 GCT  
 WEATHER O BAR 29.60 WIND NW 3 SEA SW 2  
 TEMPERATURE DRY 48 WET 48 DEPTH 166

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.46	32.30	25.11	.578	0.84	.28	20
30	8.17	32.38	25.22	.552	0.83	.25	19
60	7.82	32.45	25.32	.543	0.96	.30	20
90	6.72	32.61	25.60	.497		.01	20
120	6.39	32.70	25.71	.484	1.30	.30	30
150	5.97	32.88	25.91	.463	1.30	.20	32

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.46	32.30	25.11	286.1	.000
10	8.37	32.33	25.15	282.8	.028
20	8.27	32.35	25.18	280.0	.056
30	8.17	32.38	25.22	276.6	.084
50	8.02	32.42	25.27	271.8	.139
75	7.17	32.54	25.48	251.8	.204
100	6.62	32.63	25.63	238.3	.265
150	5.97	32.88	25.91	212.3	.378

## STATION 136

54-26 N 165-07 W 16 AUG 1940 2055 GCT  
 WEATHER C D Z BAR 29.56 WIND S 2 SEA WSW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 119

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.40	31.85	24.77	.553	0.68	.29	15
15	7.94	32.05	24.99	.539	0.84	.38	20
35	7.96	32.10	25.03	.538	0.74	.36	20
55	7.97	32.10	25.03	.538	0.78	.41	20
75	7.58	32.29	25.23	.523	0.87	.58	22
105	6.26	32.61	25.66	.474	1.35	.60	30

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.40	31.85	24.77	318.8	.000
10	8.05	32.00	24.94	302.9	.031
20	7.95	32.07	25.01	296.5	.061
30	7.96	32.09	25.02	295.2	.091
50	8.00	32.08	25.01	296.8	.150
75	7.58	32.29	25.23	275.8	.222
100	6.54	32.55	25.57	243.3	.287

## STATION 137

54-28 N 165-02 W 16 AUG 1940 2127 GCT  
 WEATHER C D Z BAR 29.56 WIND S 2 SEA WSW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 79

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.36	31.74	24.69	.534	0.66	.21	13
10	8.30	31.76	24.71	.533	0.65	.20	13
25	8.11	31.83	24.79	.528	0.78	.24	19
40	8.11	31.83	24.79	.523	0.78	.24	20
55	8.06	31.87	24.82	.522	0.82	.25	20
70	7.88	31.98	24.94	.521	0.82	.24	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.36	31.74	24.69	326.4	.000
10	8.30	31.76	24.71	324.2	.033
20	8.15	31.81	24.77	318.6	.065
30	8.12	31.83	24.79	316.8	.097
50	8.09	31.85	24.81	315.2	.160

## STATION 138

54-28 N 164-56 W 16 AUG 1940 2300 GCT  
 WEATHER O C BAR 29.52 WIND WSW 1 SEA WSW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 76

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.29	31.78	24.73	.541	0.66	.22	13
10	8.24	31.78	24.74	.530	0.78	.22	20
25	8.25	31.76	24.72	.531	0.76	.23	20
40	8.23	31.78	24.74	.521	0.75	.22	21
55	8.20	31.78	24.74	.522	0.78	.22	16
70	8.14	31.83	24.79	.516	0.78	.21	21

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.29	31.78	24.73	322.4	.000
10	8.24	31.78	24.74	321.9	.032
20	8.25	31.76	24.72	323.7	.064
30	8.24	31.77	24.73	322.9	.096
50	8.21	31.77	24.73	322.8	.161

## STATION 139

54-22 N 165-05 W 17 AUG 1940 0120 GCT  
 WEATHER ORFQ BAR 29.49 WIND WSW 7 SEA WSW 5  
 TEMPERATURE DRY 49 WET 49 DEPTH 129

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	8.38	31.78	24.72	.538	0.78	.25	16
25	7.97	32.09	25.02	.521	1.00	.26	16
50	7.27	32.43	25.38	.517	1.21	.32	28
75	6.02	32.74	25.79	.473	1.62	.40	34
100	5.91	32.77	25.83	.462	1.65	.56	32
120	5.87	32.81	25.86	.464	1.63	.34	34

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	8.38	31.78	24.72	323.7	.000
10	8.25	31.90	24.83	313.1	.032
20	8.08	32.03	24.96	301.2	.063
30	7.87	32.16	25.09	288.8	.093
50	7.27	32.43	25.38	260.9	.148
75	6.02	32.74	25.79	222.5	.208
100	5.91	32.77	25.83	219.2	.263

## STATION 140

54-16 N 165-16 W 17 AUG 1940 0340 GCT  
 WEATHER ORFG BAR 29.47 WIND WSW 4 SEA WSW 1  
 TEMPERATURE DRY 49 WET 48 DEPTH 73

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.69	32.25	25.18	.533	1.15	.32	27
20	7.72	32.25	25.18	.529	1.06	.32	27
40	7.75	32.27	25.19	.533	1.18	.34	24
65	7.77	32.93	25.70	.539	1.08	.32	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.69	32.25	25.18	279.2	.000
10	7.70	32.25	25.18	279.5	.028
20	7.72	32.25	25.18	279.9	.056
30	7.74	32.20	25.14	284.0	.084
50	7.76	32.45	25.33	266.0	.139

## STATION 141

54-05 N 165-39 W 17 AUG 1940 2023 GCT  
 WEATHER C BAR 29.59 WIND CALM SEA SW 1  
 TEMPERATURE DRY 50 WET 49 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.84	32.23	25.15	.547	0.88	.24	26
15	7.81	32.27	25.18	.554	0.88	.26	24
30	7.83	32.29	25.19	.548	0.84	.26	24
45	7.89	32.29	25.19	.552	0.94	.26	24
62	7.89	32.29	25.19	.547	0.94	.26	23

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.84	32.23	25.15	282.7	.000
10	7.81	32.26	25.17	280.2	.028
20	7.81	32.28	25.19	278.9	.056
30	7.83	32.29	25.19	278.6	.084
50	7.90	32.29	25.18	279.8	.140

## STATION 142

54-01 N 165-58 W 17 AUG 1940 2235 GCT  
 WEATHER O F Q BAR 29.64 WIND W 4 SEA SW 1  
 TEMPERATURE DRY 48 WET 48 DEPTH 82

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.83	32.27	25.18	.549	1.00	.26	19
15	7.80	32.29	25.20	.545	0.97	.21	23
30	7.80	32.29	25.20	.545	0.90	.26	22
45	7.85	32.27	25.18	.542	0.94	.28	21
60	7.85	32.29	25.19	.549	0.93	.26	21
75	7.82	32.29	25.20	.542	0.90	.25	21

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.83	32.27	25.18	279.6	.000
10	7.81	32.29	25.20	278.0	.028
20	7.79	32.29	25.20	277.9	.056
30	7.80	32.29	25.20	278.2	.084
50	7.85	32.28	25.18	279.9	.140
75	7.82	32.29	25.20	279.1	.210

## STATION 143

54-02 N 166-18 W 18 AUG 1940 0025 GCT  
 WEATHER O F Q BAR 29.68 WIND W 4 SEA W 5  
 TEMPERATURE DRY 48 WET 48 DEPTH 81

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	7.88	32.29	25.19	.558	1.03	.24	18
15	7.77	32.29	25.20	.547	1.04	.22	18
30	7.79	32.29	25.20	.557	1.13	.22	19
45	7.74	32.36	25.26	.544	1.30	.28	21
60	7.55	32.47	25.38	.544	1.20	.27	22
75	7.22	32.54	25.48	.526	1.30	.26	23

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	7.88	32.29	25.19	278.8	.000
10	7.79	32.29	25.20	277.7	.028
20	7.78	32.28	25.19	278.5	.056
30	7.79	32.29	25.20	278.0	.084
50	7.69	32.40	25.30	268.8	.139
75	7.22	32.54	25.48	252.4	.204



## STATION 144

54-23 N 164-42 W 23 AUG 1940 0518 GCT  
 WEATHER C BAR 29.46 WIND NNW 1 SEA ESE 2  
 TEMPERATURE DRY 60 WET 56 DEPTH 20

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.64	31.20	24.07		1.04	.12	5
5	9.61	31.20	24.08		0.98	.08	5
10	9.60	31.20	24.08	.533	0.85	.11	7
15	9.59	31.20	24.08	.539	0.82	.11	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.64	31.20	24.07	385.2	.000
10	9.60	31.20	24.08	384.8	.039

## STATION 145

54-23 N 164-29 W 23 AUG 1940 0805 GCT  
 WEATHER C Z BAR 29.51 WIND NE 4 SEA ESE 1  
 TEMPERATURE DRY 59 WET 55 DEPTH 87

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.66	31.31	24.15	.556	0.62	.11	9
10	9.63	31.31	24.16	.553	0.55	.07	4
20	9.62	31.33	24.17	.555	0.58	.11	5
35	8.70	31.53	24.47	.518	0.96	.28	13
50	8.01	31.62	24.64	.497	1.14	.28	18
65	7.22	31.82	24.91	.491	1.20	.26	22
80	7.20	31.96	25.02	.478	1.25	.30	25

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	9.66	31.31	24.15	377.4	.000
10	9.63	31.31	24.16	377.1	.038
20	9.62	31.33	24.17	375.6	.076
30	8.98	31.48	24.39	355.1	.113
50	8.01	31.62	24.64	331.2	.182
75	7.12	31.92	25.00	297.4	.261

## STATION 146

54-26 N 164-10 W 23 AUG 1940 1005 GCT  
 WEATHER C Z BAR 29.47 WIND N 5 SEA ESE 4  
 TEMPERATURE DRY 53 WET 53 DEPTH 115

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.09	31.47	24.21	.577	0.38	.00	0
10	10.03	31.51	24.25	.566	0.29	.00	1
25	9.48	31.69	24.48	.576	0.34	.02	2
40	8.35	31.78	24.72	.520	0.90	.28	12
55	7.46	31.91	24.95	.487	1.20	.26	20
70	6.86	32.14	25.21	.471	1.42	.32	25
80	6.70	32.32	25.37	.468	1.34	.32	27
100	6.45	32.39	25.46	.460	1.48	.36	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	10.09	31.47	24.21	372.2	.000
10	10.03	31.51	24.25	368.4	.037
20	9.73	31.64	24.40	354.3	.073
30	9.08	31.72	24.56	338.7	.108
50	7.72	31.86	24.87	309.4	.173
75	6.78	32.24	25.30	269.1	.245
100	6.45	32.39	25.46	254.1	.310

## STATION 147

54-29 N 163-55 W 23 AUG 1940 1300 GCT  
 WEATHER C BAR 29.52 WIND NW 5 SEA SE 4  
 TEMPERATURE DRY 54 WET 53 DEPTH 80

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.15	31.47	24.20	.565	0.18	.00	1
10	10.15	31.51	24.23	.564	0.25	.00	1
25	9.52	31.56	24.37	.545	0.39	.11	11
45	7.77	31.89	24.89	.505	0.98	.38	24
65	7.04	32.14	25.19	.491	1.10	.29	28
75	6.74	32.29	25.34	.478	1.37	.44	32

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	10.15	31.47	24.20	373.1	.000
10	10.15	31.51	24.23	370.3	.037
20	9.80	31.52	24.29	364.3	.074
30	8.99	31.65	24.52	342.6	.109
50	7.57	31.95	24.97	300.7	.173
75	6.74	32.29	25.34	264.9	.244

## STATION 148

54-32 N 163-39 W 23 AUG 1940 1507 GCT  
 WEATHER BC BAR 29.53 WIND CALM SEA SE 1  
 TEMPERATURE DRY 58 WET 54 DEPTH 111

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.98	31.31	24.26	.530	0.22	.00	1
20	10.01	31.51	24.25	.578	0.21	.00	1
40	8.87	31.60	24.50	.530	0.65	.23	13
60	7.81	31.67	24.71	.495	0.80	.37	21
90	7.58	31.76	24.81	.489	1.02	.32	24
105	6.75	31.89	25.03	.479	1.18	.32	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	9.98	31.51	24.26	367.5	.000
10	10.14	31.50	24.22	370.9	.037
20	10.01	31.51	24.25	368.3	.074
30	9.43	31.56	24.38	355.8	.110
50	8.25	31.64	24.63	333.0	.179
75	7.93	31.69	24.71	325.2	.261
100	7.08	31.84	24.95	303.1	.340

## STATION 149

54-35 N 163-21 W 23 AUG 1940 1732 GCT  
 WEATHER BC BAR 29.57 WIND NNW 3 SEA N 2  
 TEMPERATURE DRY 55 WET 54 DEPTH 113

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.04	31.40	24.16	.561	0.42	.00	7
20	9.94	31.42	24.19	.556	0.56	.02	5
40	9.53	31.58	24.38	.554	0.63	.14	11
60	8.74	31.67	24.58	.518	1.00	.27	16
90	7.58	31.89	24.92	.488	1.00	.30	26
105	6.75	32.21	25.28	.457	1.42	.37	39

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	10.04	31.40	24.16	376.6	.000
10	10.03	31.39	24.16	377.3	.038
20	9.94	31.42	24.19	373.9	.076
30	9.78	31.51	24.29	364.9	.113
50	9.13	31.62	24.48	347.2	.184
75	8.24	31.71	24.68	328.1	.268
100	7.05	32.09	25.15	284.1	.345

## STATION 150

54-37 N 163-05 W 23 AUG 1940 1905 GCT  
 WEATHER BC BAR 29.59 WIND NNW 3 SEA NW 2  
 TEMPERATURE DRY 55 WET 54 DEPTH 78

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.89	31.27	24.08	.543	0.57	.10	10
15	9.82	31.29	24.11	.539	0.43	.07	11
30	8.74	31.33	24.31	.499	0.86	.36	13
50	8.53	31.40	24.40	.491	0.97	.38	18
70	8.28	31.47	24.40	.482	1.02	.40	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.89	31.27	24.08	383.9	.000
10	9.96	31.28	24.08	384.4	.038
20	9.37	31.30	24.19	374.1	.076
30	8.74	31.33	24.31	362.7	.113
50	8.53	31.40	24.40	354.8	.185

## STATION 151

54-44 N 162-52 W 23 AUG 1940 2210 GCT  
 WEATHER O Z BAR 29.64 WIND NW 4 SEA NW 2  
 TEMPERATURE DRY 54 WET 53 DEPTH 85

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	9.91	31.27	24.08	.565	0.41	.05	7
15	9.76	31.33	24.15	.561	0.45	.07	8
30	9.71	31.33	24.16	.557	0.45	.08	5
55	7.85			.503	0.97	.35	20
80	7.19			.472	1.22	.20	24

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	9.91	31.27	24.08	384.2	.000
10	9.80	31.32	24.14	378.9	.038
20	9.83	31.33	24.14	378.6	.076
30	9.71	31.33	24.16	376.7	.114
50	8.13				
75	7.23				

## STATION 152

54-51 N 162-40 W 24 AUG 1940 0004 GCT  
 WEATHER C Z BAR 29.67 WIND NW 2 SEA NW 1  
 TEMPERATURE DRY 54 WET 53 DEPTH 40

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.46	31.08	23.84	.545	0.50	.01	6
10	10.09	31.11	23.93	.550	0.63	.05	5
20	9.86	31.17	24.01	.535	0.78	.15	11
35	9.77	31.17	24.03	.528	0.80	.17	11

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.46	31.08	23.84	406.9	.000
10	10.09	31.11	23.93	399.0	.040
20	9.86	31.17	24.01	391.2	.080
30	9.77	31.18	24.03	389.2	.119

## STATION 153

54-58 N 162-27 W 24 AUG 1940 0156 GCT  
 WEATHER C Z BAR 29.68 WIND NW 4 SEA NW 1  
 TEMPERATURE DRY 57 WET 55 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.27	31.13	23.91	.303	0.43	.14	11
10	10.05	31.13	23.95	.536	0.50	.15	11
20	9.28	31.29	24.20	.507	0.75	.38	14
30	8.84	31.33	24.30	.479	0.96	.61	14
40	8.77	31.38	24.35	.468	0.98	.65	20
50	8.68	31.38	24.36	.464	1.00	.67	21

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.27	31.13	23.91	400.2	.000
10	10.05	31.13	23.95	396.9	.040
20	9.28	31.29	24.20	373.5	.079
30	8.84	31.33	24.30	364.2	.116
50	8.68	31.38	24.36	358.5	.188

## STATION 154

55-00 N 162-18 W 24 AUG 1940 0318 GCT  
 WEATHER C Z BAR 29.68 WIND NW 4 SEA NW 1  
 TEMPERATURE DRY 57 WET 55 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.76	31.11	23.82	.571	0.52	.01	5
10	10.34	31.17	23.93	.570	0.63	.02	9
20	9.92	31.27	24.08	.551	0.42	.08	10
30	9.54	31.33	24.19	.531	0.76	.15	8
40	8.93	31.40	24.34	.486	0.83	.44	13
52	8.76	31.44	24.39	.477	1.00	.52	18

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.76	31.11	23.82	409.6	.000
10	10.34	31.17	23.93	398.5	.040
20	9.92	31.27	24.08	384.7	.079
30	9.54	31.33	24.19	374.6	.117
50	8.75	31.44	24.40	355.0	.190

## STATION 155

55-01 N 162-08 W 24 AUG 1940 0440 GCT  
 WEATHER BC Z BAR 29.71 WIND NNW 3 SEA CALM  
 TEMPERATURE DRY 61 WET 57 DEPTH 95

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.74	31.17	23.87	.562	0.25	.02	12
15	10.22	31.17	23.95	.547	0.30	.02	8
30	10.09	31.17	23.97	.533	0.37	.07	10
50	9.87	31.22	24.05	.522	0.38	.12	13
70	8.88	31.40	24.34	.477	0.70	.42	21
90	8.23	31.51	24.53	.432	1.10	.63	34

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.74	31.17	23.87	404.8	.000
10	10.35	31.17	23.93	398.7	.040
20	10.18	31.17	23.96	396.2	.080
30	10.09	31.17	23.97	394.9	.120
50	9.87	31.22	24.05	388.1	.198
75	8.69	31.43	24.40	355.3	.291

## STATION 156

55-02 N 161-56 W 24 AUG 1940 0640 GCT  
 WEATHER BC Z BAR 29.75 WIND NNW 2 SEA CALM  
 TEMPERATURE DRY 59 WET 56 DEPTH 17

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.37	30.72	23.58	.527	0.30	.01	11
7	10.04	30.95	23.81	.528	0.35	.02	10
14	10.17	31.08	23.89	.565	0.35	.02	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.37	30.72	23.58	432.2	.000
10	10.04	31.02	23.87	404.9	.042

## STATION 157

55-05 N 161-55 W 24 AUG 1940 0830 GCT  
 WEATHER BC Z BAR 29.76 WIND WNW 2 SEA CALM  
 TEMPERATURE DRY 56 WET 55 DEPTH 53

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.19	30.75	23.63	.549	0.38	.02	12
15	9.87	30.99	23.87	.533	0.43	.03	12
30	9.66	31.04	23.94	.518	0.45	.08	18
47	9.42	31.09	24.02	.513	0.75	.23	19

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.19	30.75	23.63	427.1	.000
10	9.96	30.93	23.81	410.3	.042
20	9.80	31.01	23.90	402.1	.083
30	9.66	31.04	23.94	397.9	.123

## STATION 158

55-08 N 161-55 W 24 AUG 1940 0950 GCT  
 WEATHER BC Z BAR 29.79 WIND NW 2 SEA CALM  
 TEMPERATURE DRY 55 WET 53 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.74	29.81	22.81	.575	0.22	.00	14
10	10.41	30.72	23.57	.563	0.25	.00	6
25	10.17	30.95	23.79	.549	0.30	.01	8
38	9.84	31.02	23.90	.531	0.58	.13	12

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	10.74	29.81	22.81	505.5	.000
10	10.41	30.72	23.57	433.0	.047
20	10.27	30.89	23.73	418.3	.090
30	10.06	30.99	23.84	407.8	.131

## STATION 159

55-12 N 161-54 W 24 AUG 1940 1132 GCT  
 WEATHER BC Z BAR 29.80 WIND CALM SEA CALM  
 TEMPERATURE DRY 51 WET 51 DEPTH 115

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.86	28.75	21.97	.574	0.23	.00	22
10	10.17	30.75	23.63	.556	0.25	.00	1
25	10.22	30.88	23.73	.550	0.25	.00	5
50	8.40	31.27	24.31	.477	0.75	.29	19
75	7.42	31.42	24.57	.439	1.15	.25	27
110	6.74	31.47	24.70	.391	1.15	.39	34

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	10.86	28.75	21.97	586.1	.000
10	10.17	30.75	23.63	427.0	.051
20	10.30	30.83	23.68	423.3	.094
30	9.79	30.98	23.88	404.3	.135
50	8.40	31.27	24.31	362.7	.212
75	7.42	31.42	24.57	338.5	.300
100	6.85	31.47	24.68	327.8	.383



## STATION 160

55-17 N 161-37 W 24 AUG 1940 1344 GCT  
 WEATHER BC Z BAR 29.79 WIND NE 1 SEA NE 1  
 TEMPERATURE DRY 51 WET 51 DEPTH 110

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.41	31.15	23.91	.579	0.30	.01	3
10	10.41	31.15	23.91	.579	0.33	.00	2
25	9.61	31.26	24.12	.565	0.38	.08	2
50	8.03	31.46	24.52	.491	1.00	.50	21
75	7.06	31.49	24.67	.448	1.10	.23	24
105		31.51		.302	1.60	.20	42

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.41	31.15	23.91	400.9	.000
10	10.41	31.15	23.91	401.1	.040
20	9.89	31.22	24.05	387.9	.079
30	9.25	31.31	24.22	371.7	.117
50	8.03	31.46	24.52	342.4	.189
75	7.06	31.49	24.67	328.1	.273

## STATION 161

55-19 N 161-20 W 24 AUG 1940 1544 GCT  
 WEATHER BC BAR 29.79 WIND CALM SEA W 1  
 TEMPERATURE DRY 51 WET 51 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.61	31.49	24.14	.567	0.26	.09	12
10	10.59	31.51	24.16	.561	0.36	.10	11
25	10.10	31.51	24.24	.556	0.38	.15	12
40	9.58	31.53	24.34	.543	0.60	.22	12
60	9.19	31.58	24.44	.535	0.78	.29	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.61	31.49	24.14	379.0	.000
10	10.59	31.51	24.16	377.4	.038
20	10.27	31.51	24.21	372.4	.075
30	9.90	31.51	24.27	366.7	.112
50	9.34	31.55	24.39	355.5	.184

## STATION 162

55-21 N 161-04 W 24 AUG 1940 1733 GCT  
 WEATHER C BAR 29.79 WIND NE 1 SEA SSE 1  
 TEMPERATURE DRY 52 WET 52 DEPTH 31

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.53	31.35	24.04	.572	0.28	.02	8
10	10.53	31.36	24.05	.569	0.28	.01	8
15	10.50	31.40	24.08	.567	0.28	.03	8
25	10.37	31.42	24.12	.559	0.38	.10	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.53	31.35	24.04	388.1	.000
10	10.53	31.36	24.05	387.5	.039
20	10.45	31.42	24.11	381.9	.077

## STATION 163

55-26 N 160-45 W 24 AUG 1940 1945 GCT  
 WEATHER C BAR 29.78 WIND NE 1 SEA CALM  
 TEMPERATURE DRY 54 WET 53 DEPTH 55

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.27	30.97	23.62	.575	0.18	.00	7
15	10.50	31.44	24.12	.561	0.26	.07	6
30	10.20	31.44	24.17	.558	0.36	.12	7
50	8.22	31.62	24.61	.504	0.86	.36	16

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.27	30.97	23.62	428.3	.000
10	10.70	31.34	24.00	391.7	.041
20	10.51	31.43	24.11	382.2	.080
30	10.20	31.44	24.17	376.7	.118
50	8.22	31.62	24.61	334.1	.189

## STATION 164

55-24 N 160-29 W 24 AUG 1940 2135 GCT  
 WEATHER 0 RAP 29.77 WIND NE 1 SEA CALM  
 TEMPERATURE DRY 54 WET 53 DEPTH 60

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.27	30.50	23.25	.563	0.20	.00	12
10	10.63	31.26	23.95	.573	0.22	.00	7
20	10.41	31.40	24.10	.576	0.28	.03	7
30	9.89	31.49	24.26	.558	0.56	.14	7
40	9.45	31.56	24.38	.541	0.62	.26	9
55	8.54	31.65	24.59	.520	0.82	.34	17

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.27	30.50	23.25	463.1	.000
10	10.63	31.26	23.95	396.5	.043
20	10.41	31.40	24.10	382.8	.082
30	9.89	31.49	24.26	368.1	.120
50	8.88	31.62	24.52	343.5	.191

## STATION 165

55-22 N 160-18 W 24 AUG 1940 2310 GCT  
 WEATHER 0 BAR 29.75 WIND ESE 1 SEA CALM  
 TEMPERATURE DRY 54 WET 53 DEPTH 110

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.74	31.33	23.99	.560	0.30	.02	9
20	9.77	31.51	24.29	.539	0.53	.01	10
40	9.36	31.62	24.44	.529	0.72	.01	12
55	8.79	31.76	24.64	.517	0.82	.01	17
75	8.11	31.80	24.77	.504	0.98	.00	19
100	7.70	31.82	24.85	.497	1.00	.14	22

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.74	31.33	23.99	392.9	.000
10	10.18	31.43	24.16	376.7	.038
20	9.77	31.51	24.29	364.6	.075
30	9.61	31.55	24.35	359.3	.111
50	8.97	31.72	24.58	337.4	.181
75	8.11	31.80	24.77	319.5	.263
100	7.70	31.82	24.85	312.8	.342

## STATION 166

55-14 N 160-04 W 25 AUG 1940 0125 GCT  
 WEATHER O R Q BAR 29.71 WIND SSW 5 SEA SW 1  
 TEMPERATURE DRY 53 WET 53 DEPTH 73

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.96	31.82	24.33	.545	0.55	.10	11
20	9.28	31.82	24.61	.507	0.90	.22	13
40	7.78	31.96	24.94	.468	1.00	.40	21
68	7.43	32.09	25.09	.481	1.15	.02	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.96	31.82	24.33	360.3	.000
10	10.10	31.80	24.46	348.0	.035
20	9.28	31.82	24.61	334.1	.069
30	8.40	31.89	24.80	316.2	.102
50	7.42	32.02	25.04	293.5	.163

## STATION 167

55-18 N 159-54 W 25 AUG 1940 1738 GCT  
 WEATHER BC Z BAR 29.77 WIND NW 4 SEA NW 3  
 TEMPERATURE DRY 52 WET 51 DEPTH 68

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.44	31.87	24.29	.552	0.05	.02	17
20	9.93	31.83	24.51	.548	0.42	.13	15
40	7.49	32.07	25.07	.488	1.20	.10	31
62	7.39	32.10	25.11	.426	1.20	.07	30

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.44	31.87	24.29	364.7	.000
10	10.80	31.82	24.36	357.9	.036
20	9.93	31.83	24.51	343.3	.071
30	8.43	31.98	24.87	310.0	.104
50	7.11	32.11	25.15	282.7	.163

## STATION 168

55-18 N 159-42 W 25 AUG 1940 1930 GCT  
 WEATHER BC Z BAR 29.77 WIND NW 4 SEA NW 3  
 TEMPERATURE DRY 52 WET 51 DEPTH 118

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.32	31.60	24.10	.553	0.05	.01	13
20	10.85	31.91	24.42	.532	0.25	.14	11
40	9.28	31.85	24.63	.515	0.62	.43	19
60	8.32	31.96	24.87	.508	0.83	.27	24
80	7.71	32.07	25.04	.489	0.98	.09	2
110	7.29	32.12	25.14	.480	1.05	.08	32

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.32	31.60	24.10	382.6	.000
10	11.22	31.80	24.27	366.3	.037
20	10.85	31.91	24.42	352.2	.073
30	9.99	31.86	24.53	342.2	.108
50	8.76	31.90	24.75	321.0	.174
75	7.84	32.05	25.01	297.2	.251
100	7.36	32.12	25.13	285.9	.324

## STATION 169

55-18 N 159-28 W 25 AUG 1940 2125 GCT  
 WEATHER BC BAR 29.78 WIND WNW 5 SEA NW 3  
 TEMPERATURE DRY 54 WET 52 DEPTH 153

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.13	31.62	24.15	.543	0.10	.09	13
20	10.33	31.69	24.34	.527	0.07	.21	13
40	9.48	31.82	24.58	.521	0.55	.35	15
60	8.46	31.89	24.79	.510	0.83	.40	21
80	7.83	31.98	24.95	.497	0.95	.15	26
100	7.77	32.03	25.00	.491	1.02	.23	27
125	7.37	32.16	25.16	.487	1.15	.03	28
145	7.11	32.21	25.23	.477	1.30	.02	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.13	31.62	24.15	377.9	.000
10	10.74	31.65	24.24	369.4	.037
20	10.33	31.69	24.34	360.0	.073
30	9.93	31.76	24.46	348.7	.108
50	8.92	31.85	24.69	327.0	.176
75	7.93	31.96	24.92	305.1	.255
100	7.77	32.03	25.00	298.1	.330

## STATION 170

55-10 N 159-18 W 26 AUG 1940 0054 GCT  
 WEATHER BC BAR 29.79 WIND WNW 5 SEA NW 3  
 TEMPERATURE DRY 56 WET 54 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.14	31.73	24.23	.555	0.21	.10	13
20	11.42	32.05	24.43	.552	0.15	.03	4
40	8.27	31.96	24.87	.509	0.70	.20	24
68	7.54	32.12	25.10	.490	0.98	.04	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	11.14	31.73	24.23	370.0	.000
10	11.71	31.94	24.29	364.4	.037
20	11.42	32.05	24.43	351.5	.073
30	9.57	31.98	24.69	326.8	.107
50	7.52	31.98	25.00	297.8	.169

## STATION 171

55-02 N 159-10 W 26 AUG 1940 0239 GCT  
 WEATHER BC BAR 29.81 WIND WNW 3 SEA WNW 1  
 TEMPERATURE DRY 57 WET 55 DEPTH 79

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.59	31.92	24.30	.560	0.05	.01	10
20	11.39	31.96	24.36	.548	0.18	.00	9
40	9.63	32.16	24.82	.518	0.53	.35	15
60	7.47	32.16	25.14	.487	0.98	.01	24
74	7.42	32.16	25.15	.482	0.95	.07	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta \sigma$
0	11.59	31.92	24.30	363.6	.000
10	11.69	31.92	24.28	365.5	.036
20	11.39	31.96	24.36	357.6	.072
30	10.56	32.09	24.61	334.3	.107
50	8.24	32.16	25.03	294.2	.170

## STATION 172

54-51 N 159-01 W 26 AUG 1940 0430 GCT  
 WEATHER BC Z BAR 29.81 WIND WNW 3 SEA WNW 2  
 TEMPERATURE DRY 56 WET 54 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	12.03	31.94	24.23	.548	0.28	.00	8
20	10.65	31.85	24.41	.534	0.46	.12	4
30	9.47	32.00	24.72	.519	0.80	.22	14
40	7.79	32.09	25.04	.491	1.26	.10	24
50	7.53	32.09	25.08	.488	1.26	.01	24
70	7.22	32.29	25.28	.478	1.28	.11	25

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	12.03	31.94	24.23	369.8	.000
10	11.50	31.83	24.24	368.9	.037
20	10.65	31.85	24.41	353.4	.073
30	9.47	32.00	24.72	323.8	.107
50	7.53	32.09	25.08	289.7	.168

## STATION 173

54-45 N 159-18 W 26 AUG 1940 0655 GCT  
 WEATHER BC Z BAR 29.82 WIND WNW 2 SEA SW 2  
 TEMPERATURE DRY 55 WET 55 DEPTH 58

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.95	31.67	24.22	.590	0.42	.00	4
10	10.88	31.69	24.24	.581	0.45	.01	4
20	10.90	31.82	24.34	.542	0.62	.04	11
30	9.26	32.14	24.86	.511	0.94	.26	13
40	7.73	32.05	25.02	.485	1.38	.18	20
50	7.42	32.09	25.10	.475	1.44	.28	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.95	31.67	24.22	371.2	.000
10	10.88	31.69	24.24	368.8	.037
20	10.90	31.82	24.34	359.7	.073
30	9.26	32.14	24.86	310.2	.106
50	7.42	32.09	25.10	288.3	.166

## STATION 174

54-41 N 159-31 W 26 AUG 1940 0920 GCT  
 WEATHER B BAR 29.82 WIND W 3 SEA SW 1  
 TEMPERATURE DRY 54 WET 52 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.00	31.76	24.28	.564	0.38	.05	4
20	11.07	31.91	24.38	.537	0.42	.02	6
30	10.43	32.01	24.57	.517	0.58	.18	9
40	8.79	32.03	24.85	.503	0.96	.40	13
55	7.73	32.16	25.11	.472	1.25	.15	21
70	7.67	32.16	25.12	.473	1.35	.20	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	11.00	31.76	24.28	365.4	.000
10	11.26	31.83	24.29	364.8	.037
20	11.07	31.91	24.38	355.9	.073
30	10.43	32.01	24.57	338.1	.108
50	7.97	32.13	25.05	292.7	.171

## STATION 175

54-38 N 159-47 W 26 AUG 1940 1200 GCT  
 WEATHER BC BAR 29.78 WIND WSW 3 SEA SW 1  
 TEMPERATURE DRY 53 WET 52 DEPTH 82

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.14	31.85	24.32	.551	0.30	.05	8
15	11.12	31.85	24.33	.550	0.30	.02	7
30	9.19	32.20	24.92	.508	0.77	.02	20
35	7.84	32.21	25.13	.487	1.04	.16	23
40	7.34	32.27	25.25	.480	1.20	.11	27
55	7.33	32.27	25.25	.475	1.35	.09	27
75	7.28	32.27	25.26	.476		.08	26

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> δ	ΔD
0	11.14	31.85	24.32	361.1	.000
10	11.34	31.81	24.26	367.6	.036
20	10.83	32.02	24.51	343.8	.072
30	9.19	32.20	24.92	304.7	.104
50	7.34	32.27	25.25	273.8	.162
75	7.28	32.27	25.26	273.3	.230



## STATION 176

54-36 N 160-06 W 26 AUG 1940 1421 GCT  
 WEATHER O D BAR 29.74 WIND WSW 3 SEA SW 1  
 TEMPERATURE DRY 52 WET 52 DEPTH 102

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.23	32.12	24.52	.560	0.41	.00	2
20	11.12	32.14	24.55	.542	0.56	.05	5
40	7.17	32.16	25.18	.483	1.20	.01	25
60	7.17	32.32	25.31	.474	1.30	.02	26
80	7.18	32.32	25.31	.471	1.43	.10	24
97	7.12	32.34	25.33	.469	1.38	.10	29

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.23	32.12	24.52	342.7	.000
10	11.65	32.13	24.45	349.4	.035
20	11.12	32.14	24.55	339.7	.069
30	8.65	32.13	24.95	302.0	.101
50	7.17	32.26	25.26	272.3	.158
75	7.19	32.32	25.31	268.4	.226

## STATION 177

54-33 N 160-23 W 26 AUG 1940 1630 GCT  
 WEATHER O D G BAR 29.64 WIND SW 3 SEA SW 2  
 TEMPERATURE DRY 52 WET 52 DEPTH 142

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.33	31.94	24.36	.550	0.40	.02	32
20	11.12	32.07	24.50	.543	0.42	.09	42
30	9.05	32.18	24.93	.516	0.80	.19	3
40	8.47	32.25	25.07	.499	0.98	.08	7
60	7.09	32.34	25.34	.476	1.35	.00	15
80	6.91	32.38	25.39	.474	1.32	.00	24
110	6.76	32.45	25.47	.469	1.25	.01	27
135	6.41	32.59	25.62	.442	1.36	.19	31

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.33	31.94	24.36	357.7	.000
10	11.88	31.99	24.30	363.7	.036
20	11.12	32.07	24.50	344.9	.071
30	9.05	32.18	24.93	304.1	.103
50	7.63	32.30	25.23	275.4	.161
75	6.95	32.37	25.38	261.6	.228
100	6.84	32.41	25.42	257.5	.293

## STATION 178

54-31 N 160-39 W 26 AUG 1940 1905 GCT  
 WEATHER O R G BAR 29.52 WIND SSW 5 SEA SW 4  
 TEMPERATURE DRY 53 WET 53 DEPTH 146

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.41	32.21	24.55	.556	0.46	.02	10
10	11.38	32.21	24.56	.544	0.44	.01	8
40	8.41	32.39	25.19	.506	1.00	.10	21
60	7.04	32.50	25.47	.487	1.16	.00	29
80	6.62	32.56	25.57	.462	1.20	.02	34
110	6.15	32.72	25.76	.451	1.42	.15	44
140	5.63	32.97	26.02	.380	1.56	.00	47

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.41	32.21	24.55	339.1	.000
10	11.38	32.21	24.56	338.8	.034
20	10.27	32.27	24.80	316.1	.067
30	9.28	32.33	25.01	296.4	.098
50	7.61	32.45	25.35	264.0	.154
75	6.72	32.54	25.54	246.0	.218
100	6.31	32.66	25.69	232.3	.278

## STATION 179

54-28 N 160-55 W 26 AUG 1940 2135 GCT  
 WEATHER O F BAR 29.46 WIND SW 3 SEA SW 4  
 TEMPERATURE DRY 53 WET 52 DEPTH 139

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.36	31.87	24.30	.582	0.08	.01	6
20	11.01	32.12	24.56	.576	0.47	.03	8
30	9.40	32.29	24.96	.534	0.68	.13	11
40	8.25	32.41	25.23	.509	1.04	.14	21
60	7.29	32.56	25.48	.511	1.16	.15	25
80	6.64	32.59	25.59	.488	1.22	.00	28
100	6.39	32.61	25.64	.464	1.40	.01	30
130	5.79	32.88	25.93	.421	1.46	.03	38

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.36	31.87	24.30	363.4	.000
10	11.66	31.98	24.33	360.6	.036
20	11.01	32.12	24.56	339.4	.071
30	9.40	32.29	24.96	301.2	.103
50	7.73	32.50	25.37	261.9	.159
75	6.76	32.58	25.57	243.5	.222
100	6.39	32.61	25.64	237.0	.282

## STATION 180

54-25 N 161-11 W 27 AUG 1940 0004 GCT  
 WEATHER 0 Z BAR 29.42 WIND WSW 3 SEA SW 4  
 TEMPERATURE DRY 53 WET 52 DEPTH 149

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.15	31.91	24.37	.611	0.20	.01	1
20	10.79	31.91	24.43	.574	0.22	.02	2
30	10.38	32.05	24.61	.544	0.45	.00	9
40	8.70	32.05	24.88	.525	0.45	.00	14
60	7.21	32.39	25.36	.512	0.42	.02	24
80	6.69	32.39	25.43	.471	0.50	.21	27
110	6.21	32.63	25.68	.457	0.50	.28	35
140	5.69	32.95	25.99	.391	1.62	.33	34

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.15	31.91	24.37	356.8	.000
10	11.05	31.86	24.35	359.1	.036
20	10.79	31.91	24.43	351.2	.072
30	10.38	32.05	24.61	334.4	.106
50	7.83	32.26	25.17	281.1	.168
75	6.81	32.38	25.41	259.1	.236
100	6.37	32.54	25.59	242.0	.299

## STATION 181

54-23 N 161-30 W 27 AUG 1940 0204 GCT  
 WEATHER C BAR 29.42 WIND W 5 SEA SW 4  
 TEMPERATURE DRY 53 WET 52 DEPTH 87

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	11.08	31.65	24.18	.594	0.20	.00	1
20	11.03	31.69	24.22	.574	0.27	.00	2
30	9.77	31.85	24.56	.530	0.55	.08	11
40	8.11	32.07	24.98	.521	1.00	.22	21
60	7.13	32.16	25.19	.477	1.35	.07	28
80	6.86	32.38	25.40	.477	1.35	.00	28

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	11.08	31.65	24.18	374.9	.000
10	11.47	31.62	24.09	383.9	.038
20	11.03	31.69	24.22	371.5	.076
30	9.77	31.85	24.56	339.5	.112
50	7.53	32.10	25.09	289.0	.175
75	6.86	32.31	25.34	264.9	.244

## STATION 182

54-20 N 161-46 W 27 AUG 1940 0413 GCT  
 WEATHER C BAR 29.41 WIND WNW 6 SEA SW 5  
 TEMPERATURE DRY 52 WET 49 DEPTH 150

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.98	31.56	24.13	.560	0.20	.00	0
20	10.90	31.62	24.19	.558	0.20	.00	0
30	9.32	31.87	24.64	.537	0.60	.38	7
50	7.54	32.16	25.13	.490	0.63	.08	20
75	7.05	32.34	25.34	.483	1.18	.01	24
100	6.86	32.36	25.38	.476	1.18	.10	28
120	6.63	32.43	25.47	.458	1.25	.08	36
140	6.16	32.63	25.68	.407	1.30	.18	40

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.98	31.56	24.13	379.9	.000
10	11.45	31.52	24.01	390.9	.039
20	10.90	31.62	24.19	374.5	.077
30	9.32	31.87	24.64	331.2	.112
50	7.54	32.16	25.13	284.6	.174
75	7.05	32.34	25.34	265.1	.243
100	6.86	32.43	25.47	252.0	.308

## STATION 183

54-18 N 162-02 W 27 AUG 1940 0743 GCT  
 WEATHER C Z BAR 29.41 WIND WSW 6 SEA SW 6  
 TEMPERATURE DRY 51 WET 50 DEPTH 73

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.68	31.55	24.17	.575	0.10	.00	2
20	9.67	31.82	24.55	.534	0.45	.28	10
30	7.95	31.94	24.90	.502	0.96	.75	22
40	7.62	32.00	25.00	.490	1.20	.70	26
50	7.52	32.14	25.12	.480	0.55	.64	27
65	6.99	32.12	25.18	.476	1.18	.38	30

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.68	31.55	24.17	375.7	.000
10	10.58	31.69	24.30	363.9	.037
20	9.67	31.82	24.55	340.0	.072
30	7.95	31.94	24.90	306.3	.104
50	7.52	32.14	25.12	285.9	.163

## STATION 184

54-16 N 162-18 W 27 AUG 1940 1010 GCT  
 WEATHER C Z RAR 29.40 WIND W 6 SEA SW 6  
 TEMPERATURE DRY 51 WET 50 DEPTH 71

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	10.39	31.49	24.17	.564	0.30	.00	0
5	10.38	31.47	24.16	.552	0.25	.00	0
15	10.38	31.51	24.19	.558	0.35	.00	0
25	10.26	31.67	24.33	.555	0.40	.02	1
35	8.48	31.83	24.74	.510	0.82	.29	20
45	7.71	31.94	24.94	.483	0.98	.38	22
60	7.12	32.03	25.09	.482	1.03	.47	27

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	10.39	31.49	24.17	375.4	.000
10	10.40	31.48	24.16	376.5	.038
20	10.53	31.59	24.23	370.7	.075
30	9.24	31.76	24.57	338.1	.110

## **STATION DATA, 1941**

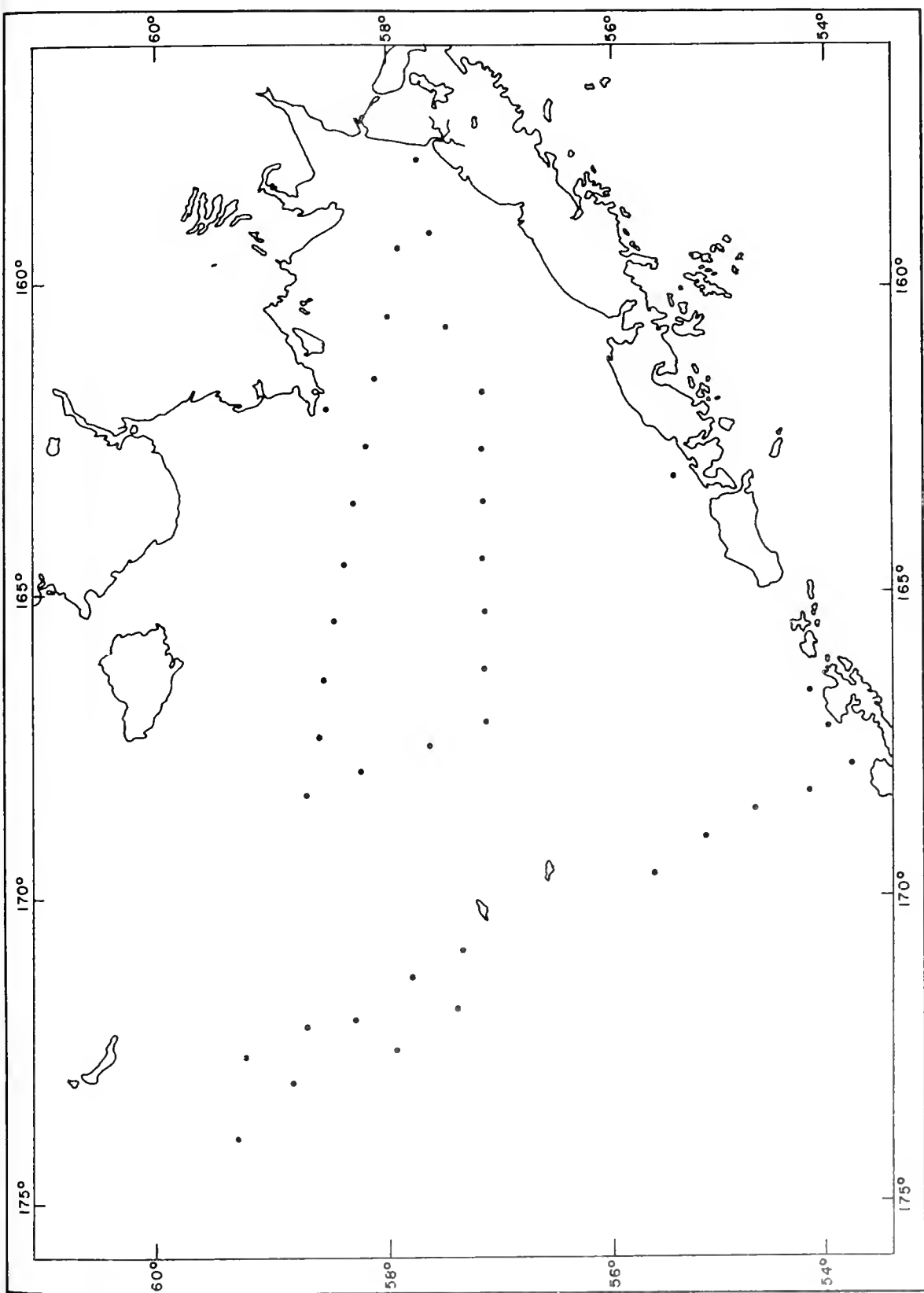


Figure 6.--Oceanographic stations 1-39, May-June 1941

## STATION 1

54-09 N 166-36 W

23 MAY 1941

2037 GCT

WEATHER C      SLP 30.05      WIND SW 4      SEA W 1  
 TEMPERATURE DRY 48      WET 45      DEPTH 896

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.76	32.41	25.56	.729	1.40	.12	10
10	5.68	32.41	25.57	.725	1.05	.12	10
20	5.39	32.45	25.64	.680	1.05	.15	14

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	5.76	32.41	25.56	243.4	.000
10	5.68	32.41	25.57	242.6	.024
20	5.39	32.45	25.64	236.5	.048



## STATION 2

53-58 N 167-11 W 23 MAY 1941 2347 GCT  
 WEATHER BC 2 BAR 30.05 WIND SW 6 SEA W 4  
 TEMPERATURE DRY 44 WET 43 DEPTH 1756

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.82	32.50	25.62	.737	1.50	.10	5
10	5.79	32.50	25.63	.736	1.40	.10	5
20	5.75	32.48	25.62	.738	2.00	.09	6
30	5.69	32.48	25.62	.736	1.35	.10	5
40	4.96	32.43	25.67	.648	1.60	.15	14
50	4.84	32.48	25.72	.622	1.55	.18	18
75	4.47	32.63	25.88	.563	1.50	.19	38
100	4.58	32.72	25.94	.537	1.70	.12	40
135	4.62	32.88	26.06	.498	1.50	.10	43
170	4.31	33.04	26.22	.486	1.60	.04	49

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta D$
0	5.82	32.50	25.62	237.3	.000
10	5.79	32.50	25.63	237.1	.024
20	5.75	32.48	25.62	238.2	.048
30	5.69	32.48	25.62	237.6	.072
50	4.84	32.48	25.72	228.6	.119
75	4.47	32.63	25.88	213.7	.174
100	4.58	32.72	25.94	208.3	.227
150	4.53	32.95	26.13	190.9	.327

## STATION 3

53-45 N 167-50 W 24 MAY 1941 0409 GCT  
 WEATHER C Z BAR 30.06 WIND S 5 SEA W 4  
 TEMPERATURE DRY 44 WET 43 DEPTH 1390

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.71	32.47	25.61	.692	3.00	.19	12
10	5.67	32.48	25.62	.695	2.50	.18	10
20	5.53	32.47	25.63	.673	2.50	.17	14
30	5.51	32.47	25.64	.681	1.60	.17	10
40	5.42	32.47	25.65	.661	1.20	.18	13
50	5.15	32.50	25.70	.619	1.50	.21	43
75	4.89	32.61	25.82	.588	1.50	.21	28
100	4.69	32.66	25.88	.567	1.75	.10	37
135	4.71	32.74	25.94	.534	1.30	.08	66
170	4.52	32.84	26.04	.502	2.50	.02	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.71	32.47	25.61	238.3	.000
10	5.67	32.48	25.63	237.2	.024
20	5.53	32.47	25.63	236.5	.048
30	5.51	32.47	25.64	236.4	.072
50	5.15	32.50	25.70	230.4	.119
75	4.89	32.61	25.82	219.6	.175
100	4.69	32.66	25.88	213.9	.229
150	4.65	32.78	25.98	204.9	.334

## STATION 4

54-12 N 168-13 W 24 MAY 1941 0820 GCT  
 WEATHER C Z BAR 30.06 WIND S 4 SEA W 4  
 TEMPERATURE DRY 44 WET 43 DEPTH 1810

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.63	32.47	25.62	.698	0.80	.14	13
10	5.66	32.47	25.62	.704	0.85	.13	11
20	5.64	32.47	25.62	.695	0.85	.13	15
30	5.55	32.50	25.66	.678	0.90	.14	15
40	5.51	32.50	25.66	.566	1.10	.14	13
50	5.34	32.50	25.68	.629	1.20	.14	38
75	5.03	32.61	25.80	.618	1.10	.16	30
100	5.07	32.68	25.85	.576	2.50	.15	30
135	4.94	32.74	25.92	.563	1.60	.13	62
170	4.76	32.83	26.01	.528	3.00	.13	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma$	$\Delta \sigma$
0	5.63	32.47	25.62	237.4	.000
10	5.66	32.47	25.62	237.8	.024
20	5.64	32.47	25.62	237.7	.048
30	5.55	32.50	25.66	234.6	.072
50	5.34	32.50	25.68	232.4	.119
75	5.03	32.61	25.80	221.1	.176
100	5.07	32.68	25.85	216.5	.231
150	4.87	32.77	25.95	208.0	.337

## STATION 5

54-40 N 168-35 W 24 MAY 1941 1201 GCT  
 WEATHER C Z BAR 30.01 WIND S 4 SEA SW 4  
 TEMPERATURE DRY 43 WET 42 DEPTH 2012

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.73	32.63	25.74	.682	1.00	.15	15
10	5.73	32.65	25.75	.682	1.70	.12	15
20	5.72	32.66	25.76	.682	1.10	.12	18
30	5.36	32.70	25.84	.607	1.40	.12	30
40	5.22	32.77	25.91	.567	1.55		42
50	5.14	32.79	25.93	.548	1.55	.10	34
75	4.71	32.94	26.10	.485	1.50	.12	46
100	4.32	33.01	26.20	.506	1.70	.00	42
135	3.88	33.10	26.31	.528	1.70	.07	50
170	1.94	33.12	26.49	.527	3.00	.00	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	5.73	32.63	25.74	226.6	.000
10	5.73	32.65	25.75	225.2	.023
20	5.72	32.66	25.76	224.4	.045
30	5.36	32.70	25.84	217.5	.067
50	5.14	32.79	25.93	208.5	.110
75	4.71	32.94	26.10	192.9	.160
100	4.32	33.01	26.20	183.8	.207
150	3.23	33.12	26.39	165.6	.294

## STATION 6

55-08 N 169-01 W 24 MAY 1941 1545 GCT  
 WEATHER 0 Z BAR 29.91 WIND SW 3 SEA SW 4  
 TEMPERATURE DRY 45 WET 44 DEPTH 1893

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.51	32.83	25.92	.651		.17	16
10	5.50	32.81	25.91	.653	1.25	.18	16
20	5.51	32.81	25.91	.657	3.60	.18	16
30	5.50	32.81	25.91	.651		.16	16
40	4.96	32.86	26.01	.628		.15	24
50	4.82	32.90	26.05	.615	1.55	.15	26
75	4.37	33.10	26.26	.463	1.90	.20	26
100	4.15	33.12	26.30	.473	1.65	.18	50
135	3.91	33.19	26.38	.479	1.72	.02	48
170	1.42	33.28	26.66	.462	1.78	.00	50

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	5.51	32.83	25.92	209.1	.000
10	5.50	32.81	25.91	210.6	.021
20	5.51	32.81	25.91	210.8	.042
30	5.50	32.81	25.91	210.8	.063
50	4.82	32.90	26.05	196.8	.104
75	4.37	33.10	26.26	177.4	.151
100	4.15	33.12	26.30	173.9	.195
150	3.12	33.23	26.49	156.3	.278

## STATION 7

55-38 N 169-38 W 24 MAY 1941 1945 GCT  
 WEATHER O R BAR 29.77 WIND E 6 SEA E 4  
 TEMPERATURE DRY 43 WET 42 DEPTH 2195

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.62	32.27	25.58	.647	1.23	.19	25
5	4.57						
10	4.62	32.27	25.58	.649	1.26	.22	26
20	4.83	32.56	25.78	.651	1.27	.22	26
30	4.79	32.56	25.79	.639	1.28	.23	24
40	4.74	32.63	25.85	.617	1.34	.22	24
50	4.73	32.74	25.94	.598	1.36	.21	26
75	4.51	32.90	26.09	.566	1.44	.17	37
100	4.10	32.95	26.17	.552	1.62	.17	39
135	3.84	33.03	26.26	.547	1.62	.18	43
170	3.49	33.04	26.30	.577	1.82	.20	45

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.62	32.27	25.58	241.7	.000
10	4.62	32.27	25.58	241.8	.024
20	4.83	32.56	25.78	222.2	.047
30	4.79	32.56	25.79	221.9	.069
50	4.73	32.74	25.94	207.9	.112
75	4.51	32.90	26.09	193.8	.162
100	4.10	32.95	26.17	186.2	.210
150	3.70	33.04	26.28	175.9	.301

## STATION 8

57-23 N 170-52 W 26 MAY 1941 1114 GCT  
 WEATHER C Z BAR 30.16 WIND NW 3 SEA SW 4  
 TEMPERATURE DRY 39 WET 39 DEPTH 88

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.28	31.82	25.43	.726	0.72	.02	4
10	2.29	31.83	25.44	.729	0.74	.02	8
20	2.27	31.83	25.44	.726	0.78	.04	10
30	2.65	31.92	25.48	.741	0.80	.02	10
40	3.06	32.09	25.58	.717	1.10	.07	12
50	2.60	31.96	25.52	.885	1.22	.06	14
65	2.60	32.07	25.61	.675	1.30	.08	18
80	2.59	32.03	25.57	.673	1.34	.08	20

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.28	31.82	25.43	255.7	.000
10	2.29	31.83	25.44	255.0	.026
20	2.27	31.83	25.44	254.9	.051
30	2.65	31.92	25.48	250.9	.076
50	2.60	31.96	25.52	247.5	.126
75	2.59	32.06	25.60	239.9	.187

## STATION 9

57-26 N 171-51 W 26 MAY 1941 1557 GCT  
 WEATHER 02 BAR 30.20 WIND NE 2 SEA NW 2  
 TEMPERATURE DRY 38 WET 38 DEPTH 111

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.54	32.18	25.61	.723	0.74	.06	14
5	3.55	32.16	25.60	.715	0.80	.05	14
15	3.55	32.18	25.61	.713	0.96	.07	14
25	3.55	32.23	25.65	.690	1.10	.09	15
35	3.56	32.21	25.63	.679	1.22	.07	16
45	3.54	32.23	25.65	.670	1.24	.06	16
65	2.39	32.30	25.81	.631	1.80	.17	34
85	2.40	32.30	25.80	.623	1.62	.15	36
105	2.27	32.29	25.81	.621	1.64	.16	37

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.54	32.18	25.61	238.4	.000
10	3.55	32.17	25.60	239.3	.024
20	3.55	32.21	25.64	236.3	.048
30	3.56	32.22	25.64	235.7	.072
50	3.14	32.25	25.70	229.9	.119
75	2.41	32.30	25.80	220.4	.175
100	2.32	32.29	25.80	220.5	.230



## STATION 10

57-50 N 171-20 W 26 MAY 1941 1938 GCT  
 WEATHER 0 BAR 30.22 WIND E 3 SEA N 2  
 TEMPERATURE DRY 38 WET 37 DEPTH 96

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.42	31.85	25.44	.750	0.37	.00	3
10	2.61	31.91	25.48	.759	0.36	.00	4
20	3.05	32.09	25.58	.739	0.47	.03	6
30	2.97	32.09	25.50	.723	0.67	.03	7
40	2.69	32.14	25.65	.689	1.03	.07	15
50	2.12	32.18	25.73	.641	1.48	.09	22
70	1.82	32.18	25.75	.619	1.61	.09	28
90	1.83	32.18	25.75	.618	1.73	.11	31

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.42	31.85	25.44	254.4	.000
10	2.61	31.91	25.48	251.3	.025
20	3.05	32.09	25.58	241.2	.050
30	2.97	32.09	25.50	240.5	.074
50	2.12	32.18	25.73	227.3	.121
75	1.79	32.18	25.75	225.1	.178

## STATION 11

57-58 N 172-31 W 26 MAY 1941 2323 GCT  
 WEATHER 0 BAR 30.22 WIND ENE 3 SEA N 2  
 TEMPERATURE DRY 40 WET 39 DEPTH 109

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.47	32.30	25.71	.696	1.15	.12	12
10		32.30		.699	1.18	.12	12
20	3.31	32.30	25.73	.696	0.85	.13	14
30	3.33	32.30	25.73	.694	0.95	.10	14
40	3.09	32.30	25.75	.680	0.98	.12	15
50	2.11	32.32	25.84	.645	1.60	.15	28
75	2.03	32.34	25.86	.633	1.77	.15	34
100	2.00	32.34	25.87	.630	1.75	.14	34

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.47	32.30	25.71	228.7	.000
10	3.39	32.30	25.72	228.0	.023
20	3.31	32.30	25.73	227.4	.046
30	3.33	32.30	25.73	227.7	.069
50	2.11	32.32	25.84	216.6	.113
75	2.03	32.34	25.86	214.6	.167
100	2.00	32.34	25.87	214.4	.221

## STATION 12A

58-20 N 172-01 W 27 MAY 1941 0250 GCT  
 WEATHER C BAR 30.17 WIND NE 4 SEA S 2  
 TEMPERATURE DRY 38 WET 37 DEPTH 100

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.40	31.83	25.43	.752	0.11	.00	3
10	2.12	31.83	25.45	.627	0.15	.00	4
20	2.00	31.85	25.48	.748	0.20	.00	6
30	2.19	31.89	25.49	.744	0.38	.00	5
40	1.34	32.07	25.70	.617	1.68	.04	10
50	0.92	32.14	25.78	.556	1.87	.03	27
70	1.22	32.23	25.83		1.97	.05	30
95	1.27	32.25	25.84	.553	1.98	.05	39

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	2.40	31.83	25.43	255.8	.000
10	2.12	31.83	25.45	253.8	.025
20	2.00	31.85	25.48	251.5	.050
30	2.19	31.89	25.49	249.8	.075
50	0.92	32.14	25.78	222.8	.122
75	1.26	32.24	25.84	217.1	.177

## STATION 12B

58-20 N 172-01 W 27 MAY 1941 0335 GCT  
 WEATHER DRY BAR WIND SEA  
 TEMPERATURE DRY WET DEPTH

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.48	31.85	25.44	.737	0.27	.00	0
10	2.21	31.85	25.46	.765	0.17	.00	1
20	2.22	31.85	25.46	.755	0.24	.00	1
30	1.87	31.94	25.56	.691	0.52	.02	2
40	1.25	32.05	25.68	.651	1.24	.02	3
50	0.84	32.14	25.78	.446	1.87	.04	13
70	1.45	32.23	25.82	.605	1.74	.08	25
95	1.34	32.29	25.87	.542	1.86	.06	

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	2.48	31.85	25.44	254.9	.000
10	2.21	31.85	25.46	252.9	.025
20	2.22	31.85	25.46	253.0	.050
30	1.87	31.94	25.56	243.8	.075
50	0.84	32.14	25.78	222.3	.122
75	1.51	32.25	25.83	217.9	.177

## STATION 13

58-44 N 171-52 W 27 MAY 1941 0708 GCT  
 WEATHER 0 BAR 30.10 WIND ENE 6 SEA NE 4  
 TEMPERATURE DRY 33 WET 32 DEPTH 96

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	0.33	31.42	25.23	.782	0.22	.00	2
10	0.44	31.40	25.21	.783	0.23	.00	4
20	0.43	31.40	25.21	.783	0.22	.00	4
30	0.34	31.40	25.21	.783	0.27	.00	4
40		31.44		.784	0.22	.00	2
50	- 0.12	31.85	25.59	.603	1.86	.02	16
70	0.56	32.09	25.76	.570	2.06	.02	39
90	0.54	32.09	25.76	.574	2.20	.03	42

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	0.33	31.42	25.23	274.9	.000
10	0.44	31.40	25.21	276.9	.028
20	0.43	31.40	25.21	276.8	.056
30	0.34	31.40	25.21	276.3	.084
50	- 0.12	31.85	25.59	239.9	.136
75	0.62	32.11	25.77	223.4	.194

## STATION 14

58-52 N 173-02 W 27 MAY 1941 1106 GCT  
 WEATHER 0 S BAR 30.01 WIND NE 6 SEA NE 4  
 TEMPERATURE DRY 33 WET 33 DEPTH 107

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.68	31.65	25.34	.754			
10	1.67	31.65	25.34	.753			
20	1.81	31.69	25.36	.758			
30	1.46	31.85	25.51	.741			
40	1.17	32.27	25.87	.582			
50	1.76	32.47	25.99	.557			
75	1.71	32.48	26.00	.556			
100	1.73	32.47	25.99	.554			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	1.68	31.65	25.34	264.6	.000
10	1.67	31.65	25.34	264.5	.026
20	1.81	31.69	25.36	262.4	.052
30	1.46	31.85	25.51	248.0	.078
50	1.76	32.47	25.99	202.8	.123
75	1.71	32.48	26.00	201.8	.174
100	1.73	32.47	25.99	202.7	.225

## STATION 15

59-15 N 172-36 W 27 MAY 1941 1534 GCT  
 WEATHER O S BAR 29.89 WIND NE 6 SEA NE 5  
 TEMPERATURE DRY 32 WET 32 DEPTH 88

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	- 0.18	31.31	25.16				
10	- 0.19	31.29	25.15	.754			
20	- 0.15	31.31	25.16	.643			
30	- 0.11	31.31	25.16	.687			
40	- 0.17	31.31	25.16	.660			
50	- 0.81	31.51	25.35				
75	- 0.20	31.85	25.60	.624			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	- 0.18	31.31	25.16	281.2	.000
10	- 0.19	31.29	25.15	282.7	.028
20	- 0.15	31.31	25.16	281.2	.056
30	- 0.11	31.31	25.16	281.3	.084
50	- 0.81	31.51	25.35	263.4	.138
75	- 0.20	31.85	25.60	239.4	.201

## STATION 16

59-20 N 173-58 W 27 MAY 1941 1936 GCT  
 WEATHER O S BAR 29.81 WIND NE 6 SEA NE 6  
 TEMPERATURE DRY 32 WET DEPTH 108

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	0.66	31.36	25.16	.757			
10	0.62	31.36	25.17	.761			
20	0.64	31.36	25.17	.759			
30	0.64	31.36	25.17	.759			
40	- 0.40	31.73	25.51	.720			
50	1.09	32.25	25.85				
70	1.45	32.36	25.92	.571			
90	1.45	32.39	25.94	.574			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	0.66	31.36	25.16	281.0	.000
10	0.62	31.36	25.17	280.8	.028
20	0.64	31.36	25.17	280.8	.056
30	0.64	31.36	25.17	280.8	.084
50	1.09	32.25	25.85	215.4	.134
75	1.48	32.37	25.93	208.6	.187

## STATION 17

58-32 N 162-00 W 29 MAY 1941 2150 GCT  
 WEATHER C Z BAR 29.83 WIND SSW 3 SEA W 3  
 TEMPERATURE DRY 41 WET 39 DEPTH 39

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.15	30.81	24.47	.657	0.52	.01	4
5	4.16	30.75	24.42	.645	0.48	.00	3
15	4.04	30.77	24.45	.643	0.54	.00	5
25	3.94	30.81	24.49	.643	0.60	.00	4
35	3.95	30.81	24.49	.648	0.58	.01	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.15	30.81	24.47	347.3	.000
10	4.10	30.76	24.43	350.6	.035
20	3.98	30.80	24.48	346.6	.070
30	3.93	30.82	24.50	344.7	.105

## STATION 18

58-06 N 161-30 W 30 MAY 1941 0121 GCT  
 WEATHER BC Z BAR 29.84 WIND SW 3 SEA SSW 1  
 TEMPERATURE DRY 42 WET 40 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.72	31.51	25.06	.693	0.50	.00	5
10	3.60	31.51	25.08	.696	0.50	.00	4
20	3.54	31.51	25.08	.687	0.55	.00	4
30	3.53	31.53	25.10	.688	0.60	.00	4
45	3.53	31.53	25.10	.687	0.58	.00	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.72	31.51	25.06	290.6	.000
10	3.60	31.51	25.08	289.6	.029
20	3.54	31.51	25.08	289.1	.058
30	3.53	31.53	25.10	287.5	.087

## STATION 19

58-00 N 160-28 W 30 MAY 1941 0533 GCT  
 WEATHER C BAR 29.85 WIND W 3 SEA W 1  
 TEMPERATURE DRY 44 WET 42 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.29	31.47	24.98	.710	0.45	.00	2
10	3.83	31.51	25.05	.714	0.48	.00	3
20	3.74	31.53	25.08	.695	0.47	.00	2
30	3.74	31.51	25.06	.694	0.52	.00	3
40	3.79	31.53	25.07	.693	0.59	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.29	31.47	24.98	298.8	.000
10	3.83	31.51	25.05	291.6	.030
20	3.74	31.53	25.08	289.3	.059
30	3.74	31.51	25.06	290.9	.088

## STATION 20

57-54 N 159-22 W 30 MAY 1941 0956 GCT  
 WEATHER C BAR 29.86 WIND W 2 SEA W 1  
 TEMPERATURE DRY 42 WET 40 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.43	30.99	24.58	.680	0.47	.00	3
10	4.16	31.46	24.98	.686	0.49	.00	5
20	4.13	31.47	24.99	.671	0.49	.00	3
30	4.14	31.47	24.99	.670	0.52	.01	3
40	4.17	31.47	24.99	.677	0.55	.01	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.43	30.99	24.58	336.3	.000
10	4.16	31.46	24.98	298.4	.032
20	4.13	31.47	24.99	297.4	.062
30	4.14	31.47	24.99	297.5	.092

## STATION 21

57-45 N 157-52 W 30 MAY 1941 1448 GCT  
 WEATHER O P Z BAR 29.88 WIND W 4 SEA W 1  
 TEMPERATURE DRY 42 WET 39 DEPTH 19

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.25	29.40	23.13	.617	0.57	.00	4
5	6.27	29.40	23.13	.617	0.55	.00	7
15	6.23	29.40	23.13	.614	0.55	.00	7

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	6.25	29.40	23.13	474.7	.000
10	6.26	29.40	23.13	474.9	.047

## STATION 22

57-37 N 159-06 W 30 MAY 1941 1923 GCT  
 WEATHER C BAR 29.94 WIND W 2 SEA W 1  
 TEMPERATURE DRY 40 WET 39 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS-	NIT	SIL
0	4.52	31.56	25.03	.687	0.49	.00	2
10	4.27	31.60	25.08	.703	0.48	.00	3
20	4.21	31.64	25.12	.700	0.49	.00	2
30	4.21	31.65	25.13	.701	0.47	.00	3
40	4.26	31.64	25.12	.703	0.53	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>θ</sub>	ΔD
0	4.52	31.56	25.03	294.2	.000
10	4.27	31.60	25.08	288.8	.029
20	4.21	31.64	25.12	285.3	.058
30	4.21	31.65	25.13	284.6	.086



## STATION 23

57-29 N 160-38 W 31 MAY 1941 0047 GCT  
 WEATHER C BAR 29.98 WIND SW 1 SEA W 1  
 TEMPERATURE DRY 45 WET 42 DEPTH 66

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.13	31.87	25.21	.713	0.64	.07	4
5	4.33	31.89	25.31	.727	1.00	.06	5
10	3.91	31.87	25.33	.724	0.78	.12	6
20	3.67	31.89	25.37	.686	0.95	.12	9
30	3.67	31.89	25.37	.682	0.95	.12	9
40	3.69	31.89	25.37	.681	1.00	.12	10
50	3.70	31.91	25.38	.680	0.90	.08	9
60	3.64	31.89	25.37	.678		.07	10

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	5.13	31.87	25.21	277.0	.000
10	3.91	31.87	25.33	265.1	.027
20	3.67	31.89	25.37	261.5	.053
30	3.67	31.89	25.37	261.6	.079
50	3.70	31.91	25.38	260.5	.131

## STATION 24

57-10 N 161-43 W 31 MAY 1941 0530 GCT  
 WEATHER BC BAR 29.99 WIND SW 1 SEA W 1  
 TEMPERATURE DRY 42 WET 40 DEPTH 52

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.21	31.85	25.06	.746	0.55	.03	2
5	4.73	31.83	25.22	.757	0.55	.04	3
10	3.93	31.83	25.30	.714	0.63	.04	3
20	3.86	31.85	25.32	.701	0.77	.05	3
30	3.89	31.85	25.32	.698	0.82	.04	3
48	3.91	31.85	25.32	.695	0.85	.02	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	6.21	31.85	25.06	290.5	.000
10	3.93	31.83	25.30	268.3	.028
20	3.86	31.85	25.32	266.3	.055
30	3.89	31.85	25.32	266.6	.082

## STATION 25

57-10 N 162-38 W 31 MAY 1941 0916 GCT  
 WEATHER C BAR 30.02 WIND E 1 SEA W 1  
 TEMPERATURE DRY 42 WET 40 DEPTH 57

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	5.11	31.85	25.19	.692	1.01	.03	20
5	4.53	31.85	25.25	.703	1.01	.09	20
10	3.77	31.85	25.33	.690	1.05	.09	20
20	3.70	31.85	25.34	.678	1.12	.08	19
30	3.72	31.85	25.33	.675	1.15	.09	21
40	3.74	31.85	25.33	.662	1.19	.07	21
53	3.69	31.85	25.34	.653	1.20	.08	22

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	5.11	31.85	25.19	278.3	.000
10	3.77	31.85	25.33	265.4	.027
20	3.70	31.85	25.34	264.8	.054
30	3.72	31.85	25.33	265.0	.080
50	3.71	31.85	25.33	265.1	.133

## STATION 26

57-10 N 163-32 W 31 MAY 1941 1302 GCT  
 WEATHER C BAR 30.04 WIND CALM SEA W 1  
 TEMPERATURE DRY 41 WET 40 DEPTH 65

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.37	31.92	25.33	.708	1.40	.10	15
5	4.35	31.94	25.34	.708	1.20	.11	18
10	3.46	31.92	25.41	.703	1.20	.13	18
20	3.01	31.92	25.45	.675	1.20	.15	23
30	3.04	31.92	25.45	.673	1.25	.15	26
40	3.05	31.92	25.45	.672	1.25	.13	26
50	2.98	31.94	25.47	.672	1.20	.10	22
60	3.00	31.92	25.45	.673	1.15	.14	24

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	4.37	31.92	25.33	265.6	.000
10	3.46	31.92	25.41	257.4	.026
20	3.01	31.92	25.45	253.7	.052
30	3.04	31.92	25.45	254.0	.077
50	2.98	31.94	25.47	252.0	.128

## STATION 27

57-10 N 164-26 W 31 MAY 1941 1654 GCT  
 WEATHER C BAR 30.05 WIND CALM SEA W 1  
 TEMPERATURE DRY 42 WET 40 DEPTH 69

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.61	31.89	25.38	.860		.02	10
5	2.55	31.91	25.48	.895	0.60	.02	10
10	2.01	31.91	25.52	.816	0.80	.03	10
20	1.99	31.91	25.52	.748	1.00	.07	14
30	2.02	31.92	25.53	.714	1.20	.07	20
40	1.98	31.92	25.53	.712	1.20	.06	20
50	1.92	31.92	25.54	.714	1.20	.05	20
65	1.90	31.92	25.54	.715	1.20	.06	22

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	3.61	31.89	25.38	260.9	.000
10	2.01	31.91	25.52	247.0	.025
20	1.99	31.91	25.52	246.9	.050
30	2.02	31.92	25.53	246.3	.075
50	1.92	31.92	25.54	245.7	.124

## STATION 28

57-10 N 165-20 W 31 MAY 1941 2031 GCT  
 WEATHER O BAR 30.10 WIND CALM SEA SW 1  
 TEMPERATURE DRY 41 WET 40 DEPTH 71

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.39	31.85	25.36	.723	0.72	.04	4
5	3.06	31.85	25.39	.725	0.74	.04	4
10	2.19	31.85	25.46	.727	0.76	.05	4
20	2.04	31.85	25.47	.720	0.79	.05	4
30	2.08	31.85	25.47	.720	0.79	.06	5
40	2.09	31.85	25.47	.716	0.83	.05	7
50	2.01	31.85	25.47	.715	0.82	.05	5
65	2.01	31.85	25.47	.707	1.05	.06	9

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	3.39	31.85	25.36	262.0	.000
10	2.19	31.85	25.46	252.8	.026
20	2.04	31.85	25.47	251.8	.051
30	2.08	31.85	25.47	252.0	.076
50	2.01	31.85	25.47	251.6	.126

## STATION 29

57-10 N 166-15 W 01 JUN 1941 0006 GCT  
 WEATHER 0 BAR 30.10 WIND CALM SEA SW 1  
 TEMPERATURE DRY 42 WET 41 DEPTH 73

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.62	31.65	25.27	.766	0.48	.00	0
5	2.08	31.65	25.31	.774	0.69	.00	3
10	0.83	31.67	25.40	.788	0.44	.01	3
20	0.70	31.69	25.43	.777	0.56	.00	3
30	0.64	31.67	25.41	.760	0.64	.00	2
40	0.51	31.74	25.48	.714	0.84	.00	2
50	0.52	31.74	25.48	.708	0.92	.00	2
65	0.48	31.74	25.48	.704	1.06	.00	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.62	31.65	25.27	271.1	.000
10	0.83	31.67	25.40	258.2	.026
20	0.70	31.69	25.43	256.0	.052
30	0.64	31.67	25.41	257.1	.078
50	0.52	31.74	25.48	251.2	.129

## STATION 30

57-10 N 167-09 W 01 JUN 1941 0453 GCT  
 WEATHER 0 Z BAR 30.12 WIND W 1 SEA SW 1  
 TEMPERATURE DRY 41 WET 40 DEPTH 75

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.59	31.71	25.23	.731	0.44	.01	2
5	1.91	31.71	25.37	.762	0.43	.01	2
10	1.45	31.71	25.40	.763	0.52	.01	2
20	1.32	31.71	25.41	.758	0.55	.01	3
30	1.34			.751	0.53	.01	3
40	1.33			.749	0.57	.02	2
55	1.30			.745	0.55	.01	3
70	1.27			.738	0.58	.02	4

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.59	31.71	25.23	274.3	.000
10	1.45	31.71	25.40	258.6	.027
20	1.32	31.71	25.41	257.8	.053
30	1.34				
50	1.31				

## STATION 31

57-40 N 167-30 W 01 JUN 1941 0830 GCT  
 WEATHER 0 Z BAR 30.15 WIND CALM SEA SW 1  
 TEMPERATURE DRY 40 WET 39 DEPTH 70

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.20	31.62	25.28	.755	0.73	.01	1
5	0.86	31.62	25.36	.782	0.74	.00	2
10	0.34	31.62	25.39	.777	0.64	.00	1
20	0.25	31.62	25.39	.774	0.72	.01	2
30	0.25	31.62	25.39	.775	0.73	.00	2
40	0.25	31.62	25.39	.770	0.68	.00	2
50	0.21	31.62	25.40	.771	0.70	.01	1
65	0.22	31.62	25.39	.771	0.69	.01	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	2.20	31.62	25.28	270.3	.000
10	0.34	31.62	25.39	259.6	.026
20	0.25	31.62	25.39	259.2	.052
30	0.25	31.62	25.39	259.1	.078
50	0.21	31.62	25.40	258.9	.130

## STATION 32

58-16 N 167-55 W 01 JUN 1941 1303 GCT  
 WEATHER 0 Z BAR 30.16 WIND ENE 2 SEA SW 1  
 TEMPERATURE DRY 37 WET 36 DEPTH 65

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.66	31.67	25.35	.783	0.40	.01	0
5	1.22	31.67	25.38	.789	0.35	.00	4
10	0.54	31.67	25.42	.795	0.30	.00	2
20	0.37	31.67	25.43	.785	0.35	.00	2
30	0.40	31.67	25.43	.780	0.40	.00	2
40	0.38	31.67	25.43	.776	0.50	.01	2
50	0.34	31.67	25.43	.775	0.35	.00	1
60	0.36	31.67	25.43	.775	0.35	.01	1

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	10 <sup>5</sup> σ <sub>t</sub>	ΔD
0	1.66	31.67	25.35	262.9	.000
10	0.54	31.67	25.42	256.7	.026
20	0.37	31.67	25.43	255.9	.052
30	0.40	31.67	25.43	256.0	.078
50	0.34	31.67	25.43	255.6	.129

## STATION 33

58-44 N 168-18 W 01 JUN 1941 1626 GCT  
 WEATHER O Z BAR 30.18 WIND ENE 2 SEA SW 1  
 TEMPERATURE DRY 37 WET 36 DEPTH 51

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	1.29	31.58	25.31	.797	0.36	.00	0
5	0.98	31.60	25.34	.804	0.40	.00	1
10	0.50	31.56	25.33	.805	0.44	.01	2
20	0.48	31.60	25.37	.804	0.48	.00	2
30	0.51	31.62	25.38	.801	0.46	.01	3
45	0.44	31.64	25.40	.797	0.47	.01	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	1.29	31.58	25.31	267.6	.000
10	0.50	31.56	25.33	264.9	.027
20	0.48	31.60	25.37	261.7	.053
30	0.51	31.62	25.38	260.3	.079

## STATION 34

58-38 N 167-21 W 01 JUN 1941 2052 GCT  
 WEATHER BC Z BAR 30.18 WIND NW 2 SEA SW 1  
 TEMPERATURE DRY 46 WET 44 DEPTH 45

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.22	31.58	25.24	.741	0.25	.00	1
5	1.89	31.58	25.27	.745	0.26	.00	1
10	1.20	31.56	25.30	.753	0.28	.00	2
20	1.07	31.56	25.30	.742	0.28	.00	2
30	1.06	31.56	25.30	.741	0.28	.00	2
40	1.07	31.56	25.30	.741	0.30	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta D$
0	2.22	31.58	25.24	273.5	.000
10	1.20	31.56	25.30	268.6	.027
20	1.07	31.56	25.30	267.8	.054
30	1.06	31.56	25.30	267.7	.081

## STATION 35

58-34 N 166-24 W 02 JUN 1941 0044 GCT  
 WEATHER BC BAR 30.17 WIND NW 2 SEA SW 1  
 TEMPERATURE DRY 38 WET 37 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	2.50	31.78	25.38	.734	0.44	.01	1
5	2.50	31.78	25.38	.737	0.48	.00	1
10	1.46	31.78	25.46	.748	0.48	.00	2
15	1.42	31.78	25.46	.743	0.52	.00	2
20	1.39	31.78	25.46	.742	0.54	.00	2
30	1.44	31.80	25.47	.744	0.58	.00	3
40	1.42	31.78	25.46	.742	0.58	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	2.50	31.78	25.38	260.3	.000
10	1.46	31.78	25.46	253.3	.026
20	1.39	31.78	25.46	252.9	.051
30	1.44	31.80	25.47	251.7	.076

## STATION 36

58-28 N 165-27 W 02 JUN 1941 0414 GCT  
 WEATHER C Z BAR 30.14 WIND NE 3 SEA SW 1  
 TEMPERATURE DRY 40 WET 39 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	3.35	31.67	25.22	.662	0.50	.01	1
5	3.20	31.67	25.24	.671	0.48	.01	2
10	2.54	31.64	25.27	.673	0.50	.01	2
20	2.49	31.65	25.28	.671	0.50	.00	2
30	2.44	31.65	25.28	.673	0.46	.01	3
40	2.49	31.64	25.27	.670	0.55	.01	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	3.35	31.67	25.22	275.3	.000
10	2.54	31.64	25.27	271.2	.027
20	2.49	31.65	25.28	270.1	.054
30	2.44	31.65	25.28	269.8	.081

## STATION 37

58-23 N 164-33 W 02 JUN 1941 0711 GCT  
 WEATHER C Z BAR 30.14 WIND ENE 1 SEA SW 1  
 TEMPERATURE DRY 42 WET 41 DEPTH 44

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.37	31.96	25.36	.701	0.36	.00	1
5	4.31	31.98	25.38	.706	0.35	.00	2
10	3.50	32.01	25.48	.715	0.38	.00	2
20	3.42	32.01	25.49	.701	0.40	.00	2
30	3.36	32.00	25.49	.701	0.40	.00	2
40	3.42	32.01	25.49	.697	0.40	.00	2

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.37	31.96	25.36	262.6	.000
10	3.50	32.01	25.48	250.9	.026
20	3.42	32.01	25.49	250.3	.051
30	3.36	32.00	25.49	250.6	.076

## STATION 38

58-17 N 163-34 W 02 JUN 1941 1037 GCT  
 WEATHER C Z BAR 30.11 WIND N 4 SEA SW 1  
 TEMPERATURE DRY 44 WET 43 DEPTH 43

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.10	31.73	25.20	.676	0.55	.00	2
5	4.09	31.71	25.19	.677	0.50	.00	2
10	3.98	31.71	25.20	.681	0.45	.00	3
20	3.52	31.73	25.26	.679	0.45	.00	2
35	3.51	31.76	25.28	.673	0.45	.00	3

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \delta$	$\Delta D$
0	4.10	31.73	25.20	277.4	.000
10	3.98	31.71	25.20	277.9	.028
20	3.52	31.73	25.26	272.3	.056
30	3.42	31.75	25.28	270.0	.083



## STATION 39

58-12 N 162-37 W 02 JUN 1941 1402 GCT  
 WEATHER BC Z BAR 30.09 WIND NE 4 SEA SW 1  
 TEMPERATURE DRY 43 WET 42 DEPTH 38

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	4.09	31.49	25.01	.685	0.40	.00	2
5	4.05	31.49	25.02	.688	0.40	.00	2
10	3.82	31.53	25.07	.692	0.40	.00	3
20	3.64	31.55	25.10	.692	0.40	.00	3
35	3.60	31.55	25.11	.688	0.40	.00	5

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	4.09	31.49	25.01	295.4	.000
10	3.82	31.53	25.07	290.0	.029
20	3.64	31.55	25.10	287.0	.058
30	3.58	31.55	25.11	286.5	.087

## STATION 40

OFF GOOD NEWS BAY 02 JUN 1941 2100 GCT  
 WEATHER BC Z BAR 30.09 WIND N 3 SEA CALM  
 TEMPERATURE DRY 54 WET 50 DEPTH 11

## OBSERVED VALUES

DEPTH	TEMP	SAL	SIG-T	OXY	PHOS	NIT	SIL
0	6.91	28.35	22.23	.628			
2	6.83	30.17	23.67	.629			
4	6.39	30.30	23.82	.630			
6	6.28	30.34	23.87	.631			

## INTERPOLATED AND COMPUTED VALUES

DEPTH	TEMP	SAL	SIG-T	$10^5 \sigma_t$	$\Delta \sigma$
0	6.91	28.35	22.23	561.1	.000



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