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**MANUSCRIPT REPORT SERIES  
(OCEANOGRAPHIC and LIMNOLOGICAL)**

**No. 56**

**TITLE**

Field data for 1949-1954  
for

"Physical oceanographic results of the Calanus expeditions in Ungava Bay, Frobisher Bay, Cumberland Sound, Hudson Strait and Northern Hudson Bay, 1949-1955". Journal Fisheries Research Board of Canada, 15 (2):155-201.

**AUTHORSHIP**

M. J. Dunbar

**Establishment**

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505 Pine Ave. W.,  
Montreal, Que.

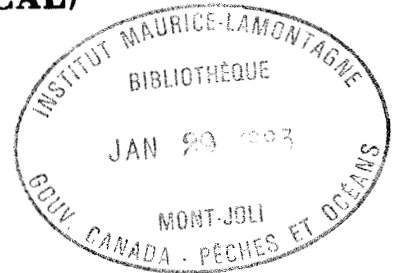
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November, 1959.

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No 56

The following raw data, because of their length, were deleted from the manuscript for the publication "Physical Oceanographic results of the "Calanus" Expeditions in Ungava Bay, Frobisher Bay, Cumberland Sound, Hudson Strait and Northern Hudson Bay, 1949 - 1955", by M. J. Dunbar, Journal Fisheries Research Board of Canada, 15 (2): 155 - 201, March 1958. In place of the table, the following statement was inserted (p. 188, end of third para.): "Copies of the raw data can be examined upon request to the author". These are herewith made available in manuscript form.

Physical oceanographic results of the "Calanus" expeditions in Ungava Bay, Frobisher Bay, Cumberland Sound, Hudson Strait and Northern Hudson Bay, 1949-1955. By M. J. Dunbar. Vol. 15, No. 2, Journal Fisheries Research Board of Canada, March, 1958.

Field Data for 1949-54.

Station	Date	Station depth m.	Sample depth m.	Time EST	Time, nearest High Water EST	Temperature °C.	Salinity ‰	Density σ <sub>t</sub>	
103	July 2 1949	290	0	0315		0.80	30.66	24.59	
			10	0330		0.14	30.88	24.81	
			25	0330		-0.10	31.46	25.27	
			50	0315		-0.60	31.20	25.09	
103	July 2 1949	290	100	0315		-0.51	32.63	26.24	
			100	0315		-0.46	33.53	26.96	
			200	0315					
105	July 6	15	13		-0.28	31.27	25.14		
103	July 16 1949	250	0	0315	2330	1.50	30.62	24.52	
			10	0330		1.06	30.75	24.66	
			25	0330		0.08	31.18	25.05	
			50	0315		-0.42	31.80	25.57	
			100	0315		-0.96	32.68	26.30	
			200	0315		-0.90	32.32	26.01	
108	July 16 1949	360	0	0930	1205	1.70	31.44	25.17	
			10	1000		0.48	31.53	25.32	
			25	1000		-0.53	31.78	25.55	
			50	0945		-1.21	32.77	26.38	
			100	0945		-1.23	33.40	26.89	
			200	0930		-0.52	33.66	27.06	
108	July 16 1949	360	300	0930		-0.20	33.95	27.29	

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
109	July 16 1949	110	0	1330	1215	2.60	31.46	25.12
			10	1350		0.44	32.07	25.75
			25	1350		-0.93	32.47	26.13
			50	1330		-1.01	32.47	26.13
			100	1330		-0.97	32.47	26.13
110	July 16 1949	115	0	1740	0036	2.20	32.05	25.62
			10	1800		0.67	32.05	25.72
			25	1800		-0.81	32.68	26.29
			50	1740		-0.84	32.27	25.96
			100	1740		-0.89	32.36	26.03
111	July 16 1949	60	0	2100	0043	2.00	31.69	25.35
			10	2120		1.59	31.85	25.50
			25	2100		0.68	31.91	25.61
			50	2100		0.33	32.07	25.76
113	July 21 1949	75	0	1030	1643	3.50	30.61	24.37
			10	1045		1.88	31.20	24.97
			25	1030		0.73	31.56	25.33
			50	1030		0.37	32.56	26.14
114	July 21 1949	145	0	1320	1641	4.10	31.80	25.26
			10	1355		1.94	31.73	25.37
			25	1340		0.01	32.01	25.72
			50	1340		-1.22	32.50	26.15
			100	1320		-1.44	32.86	26.45
			130	1320		-1.45	32.95	26.53

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
115	July 21 1949	225	0	1600	1638	4.40	32.16	25.52
			10	1635		1.75	31.89	25.52
			25	1620		0.29	32.09	25.77
			50	1620		-1.15	32.52	26.17
			100	1600		-1.41	33.17	26.70
			200	1600		-1.21	33.35	26.85
116	July 21 1949	145	0	2120	1644	3.70	31.80	25.30
			10	2155		1.78	31.87	25.51
			25	2140		0.29	32.05	25.73
			50	2140		-0.98	32.50	26.15
			90	2120		-1.36	32.95	26.53
			140	2120		-1.52	32.99	26.56
117	July 22 1949	100	0	0200	0525	2.50	31.18	24.90
			10	0220		2.59	31.49	25.14
			25	0220		0.84	31.71	25.42
			50	0200		0.09	31.89	25.62
			75	0200		-0.32	32.07	25.78
118	July 22 1949	32	0	0545	0530	2.30	31.00	24.78
			10	0545		1.70	31.90	25.53
			25	0545		1.73	30.82	24.67
123	Aug. 11 1949	17	0	1830	2130	1.80	32.32	25.87
			15	1830		0.99	32.38	25.96

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
126	Aug. 23 1949	88	0	1400	1930	4.80	31.49	24.94
			10	1415		3.49	31.49	25.07
			25	1400		2.72	31.65	25.26
			50	1400		2.36	31.80	25.41
			75	1415		2.07	31.87	25.49
127	Aug. 24 1949	106	0	1100	0800	5.80	31.17	24.58
			10	1120		4.24	31.26	24.81
			25	1120		3.48	31.36	24.97
			60	1100		2.27	31.67	25.32
			100	1100		1.18	32.09	25.72
128	Aug. 24	185	0	1340	0800	3.40	31.92	25.42
			10	1415		2.56	32.07	25.61
			25	1400		2.17	32.09	25.65
			50	1400		2.16	32.23	25.77
			100	1340		-0.41	32.61	26.22
			150	1340		-0.79	32.84	26.42
201A	June 29 1950	12	0	1810	1923	6.00	13.10	10.35
			10	1810		1.42	25.57	20.51
201B	June 30 1950	17	0	1440	2017	4.00	23.73	18.88
			10	1450		0.62	28.60	22.96
			15	1440		0.62	29.47	23.64

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
205	July 16 1950	18	0	1840	2054	2.00	30.35	24.28
			10	1850		1.21	30.55	24.50
			15	1840		1.21	30.55	24.50
208A	July 20 1950	195	0	1020	1127	2.50	29.72	23.74
			10	1055		1.04	30.64	24.58
			25	1040		0.18	31.20	25.07
			50	1040		-1.07	32.10	25.82
			100	1020		-1.39	33.12	26.66
			180	1020		-1.39	33.42	26.92
218	July 30 1950	137	0	1920	2053	2.50	30.55	24.41
			10	1940		1.82	30.46	24.37
			25	1940		1.04	30.99	24.85
			50	1920		-0.41	31.82	25.58
			100	1920		-1.28	32.81	26.41
219	July 30 1950	400	0	2310	2053	2.25	30.12	24.08
			10	2400		2.40	30.32	24.21
			25	2400		1.25	31.83	25.50
			50	2347		-1.27	32.97	26.54
			100	2330		-1.34	33.64	27.08
			200	2310		-1.59	33.53	27.00
			300	2310		-1.19	33.95	27.33
220	July 31 1950	300	0	0140	2053	0.00	29.60	23.78
			10	0215		0.11	30.19	24.26
			25	0215		-1.57	32.56	26.21
			50	0200		-1.62	33.04	26.61
			100	0200		-1.50	33.53	27.01
			200	0140		-1.15	33.93	27.31
250	0140	-1.22	33.62	27.07				



<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
221	Aug. 4 1950	274	0	1020	1230	1.50	30.55	24.48
			10	1100		0.52	32.34	25.95
			25	1100		0.40	31.04	24.92
			50	1040		-0.60	33.12	26.64
			100	1040		-1.37	33.37	26.86
			200	1020		-1.30	33.84	27.24
			250	1020		-1.37	33.42	26.91
227	Aug. 13 1950	20	0	1910	1925	1.20	31.89	25.56
			10	1920		0.94	31.80	25.50
			18	1910		0.95	31.82	25.51
201C	Aug. 29 1950	90	0	1100	0900	4.25	28.49	22.64
			10	1117		3.60	28.75	22.89
			25	1117		3.45	29.20	23.25
			50	1100		3.24	30.01	23.92
			80	1100		3.10	29.76	23.74
234	Aug. 31 1950	90	0			3.10	30.35	24.21
			10			2.45	30.46	24.33
			25			2.34	30.57	24.42
			50			1.85	31.08	24.87
			80			1.24	31.55	25.28
301	July 3 1951	91	10	1212	0723	1.55	26.10	20.91
			50	1212		3.28	28.00	22.31
			75	1212		0.55	28.54	22.95
302	July 4 1951	51	10	1140	0803	1.38	26.10	20.92
			20	1140		1.09	26.00	20.86
			35	1140		1.09	26.21	21.03

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<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
303	July 4 1951	120	0	1530	2015	2.80	28.42	22.81
			10	1530		0.44		
			50	1530		-1.50		
			75	1530		-1.53		
			100	1530		-1.53		
305	July 24 1951	128	0	0920	1230	1.50	31.20	24.08
			10	0920		0.01		
			25	0920		-0.49		
			50	0920		-1.51		
			100	0920		-1.46		
306	July 24 1951	320	0	1310	1240	1.00	31.26	25.06
			10	1310		-0.44		
			25	1310		-1.55		
			25	1415		-1.08		
			50	1310		-0.58		
			100	1415		-1.49		
			200	1415		-1.26		
275	1415	-1.14						
307	July 24 1951	155	0	1740	1240	0.60	31.33	25.14
			10	1740		-0.91		
			25	1740		-1.11		
			50	1740		-1.19		
			100	1740		-1.24		
			130	1800		-1.31		
308	July 24 1951	64	0	2120	0055	-0.20	31.73	25.49
			10	2120		-0.42		
			25	2120		-0.42		
			50	2120		-0.41		

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
309	July 28 1951	165	0	1908	1600	4.80	30.76	24.35
			10	1930		0.80	31.83	25.55
			25	1908		-0.09	32.29	25.97
			50	1930		-0.24	32.36	26.01
			100	1930		-0.14	32.49	26.10
			150	1930		-0.25	32.36	26.01
312	Aug. 4 1951	62	0	0830		7.40	0.00	
			10	0857		7.31	22.32	17.45
			25	0845		8.12	26.10	20.33
			50	0830		4.50	26.95	21.37
312A	Aug. 4 1951	20	0	1250		7.70	00.00	
			10	1240		6.40	26.99	21.18
			18	1230		3.88	27.47	21.83
313	Aug. 5 1951	183	0	1105	0815	4.40	28.00	22.21
			10	1122		1.21	31.83	25.52
			25	1105		0.03	32.35	25.99
			50	1105		-0.39	32.56	26.18
			100	1105		-0.93	32.62	26.25
			160	1105		-1.25	32.94	26.50
314	Aug. 8 1951	338	0	0835	1020	0.30	31.93	25.64
			10	0903		-0.26	32.40	26.05
			25	0903		-0.41	32.65	26.25
			50	0840		-0.44	32.87	26.43
			100	0840		-0.42	32.72	26.31
			200	0840		-0.44	32.97	26.51
			300	0840		-1.13	33.37	26.85

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
315	Aug. 8 1951	263	0	1120	1020	1.40	31.44	25.19
			10	1145		-0.10	32.31	25.96
			25	1125		-0.84	32.52	26.16
			50	1125		-1.06	32.90	26.47
			100	1125		-1.16	32.47	26.13
			200	1125		-0.94	33.32	26.82
320	Aug. 11 1951	80	0	1420	1247	-0.60	33.05	26.58
			10	1420		-0.91	32.75	26.36
			25	1420		-0.99	32.72	26.33
			50	1420		-0.94	32.78	26.38
323	Aug. 13 1951	146	0	1150	1505	2.90	31.91	25.45
			10	1150		1.53	31.27	24.98
			25	1150		0.10	31.75	25.51
			50	1150		-0.69	32.14	25.84
			100	1150		-1.10	32.73	26.34
324	Aug. 13 1951	330	0	1405	1505	3.40	31.23	24.86
			10	1435		1.84	31.76	25.42
			25	1435		-0.13	31.85	25.59
			50	1412		-0.96	32.16	25.90
			100	1412		-1.16	32.49	26.15
			200	1412		-1.38	32.69	26.32
			300	1412		-1.39	33.04	26.60
325	Aug. 13 1951	550	0	1545	1517	2.70	31.49	25.14
			10	1605		31.97		
			25	1605		32.36		
			50	1605		32.78		
			100	1605		33.01		
			200	1548		-1.35	32.94	26.51
			300	1548		-1.39	33.78	27.20
			400	1548		-1.12	33.04	26.59
500	1548	-0.70	33.19	26.79				

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
327	Aug. 19 1951	640+	0	1010	0820	0.40	32.63	26.20
			10	1137		0.19	32.49	26.10
			25	1116		-0.14	32.49	26.11
			50	1116		-0.19	32.77	26.34
			100	1116		-0.33	32.62	26.22
			200	1116		-1.20	32.83	26.42
			300	1030		-1.25	32.94	26.50
			400	1030		-1.42	32.83	26.43
			500	1045		-1.24	33.46	26.93
600	1045	-1.24	33.04	26.59				
328	Aug. 19 1951	274	0	1353	0820	1.40	32.00	25.63
			10	1415		0.48	32.00	25.68
			25	1353		0.25	32.00	25.70
			50	1353		-0.12	31.89	25.63
			100	1353		-0.48	32.31	25.98
			200	1353		-0.85	32.60	26.23
329	Aug. 21 1951	183	0	1000	0956	2.40	31.52	25.18
			10	1022		1.33	32.20	25.80
			25	1003		1.15	32.16	25.78
			50	1003		0.52	32.27	25.90
			100	1003		-1.66	33.31	26.82
			160	1022		-1.74	33.52	27.00
338	Aug. 30 1951	128	0	0630	0530	1.50	31.99	25.61
			10	0637		1.00	31.68	25.41
			25	0637		0.44	31.89	25.59
			50	0637		-0.02	32.23	25.90
			100	0637		-0.07	32.58	26.18
339	Aug. 30 1951	110	0	0740	0530	1.10	32.02	25.68
			10	0750		0.46	32.26	25.89
			25	0750		0.18	32.36	25.99
			50	0750		0.16	32.47	26.08
			100	0750		0.13	32.15	25.82

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<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
407	July 30 1952	118	0	1145	1000	1.25	30.72	24.62
			10	1230		1.19	31.35	25.12
			25	1215		-0.27	32.41	26.05
			50	1215		-1.02	32.52	26.17
			100	1150		-1.16	33.15	26.69
			150	1150		-1.02	33.22	26.74
408	July 30 1952	396	0	2215	2228	3.8	31.13	24.76
			10	2255		2.34	31.44	25.12
			25	2255		-0.28	32.27	25.94
			50	2255		-1.36	32.56	26.21
			100	2225		-1.32	32.97	26.54
			200	2225		-1.05	33.51	26.97
			300	2200		0.09	33.80	27.16
			350	2200		0.09	34.13	27.42
409	July 31 1952	640	0	0030	2228	3.8	31.20	24.82
			10	0220		3.00	31.46	25.08
			25	0220		-0.53	32.21	25.90
			50	0220		-1.37	32.70	26.32
			100	0200		-1.61	32.84	26.44
			200	0200		-0.92	33.53	26.98
			300	0140		-0.57	33.75	27.14
			400	0140		0.28	33.98	27.29
			500	0115		0.59	34.38	27.60
410	July 31 1952	576	0	0420	2228	3.0	29.99	23.92
			10	0515	1057	1.62	31.02	24.83
			25	0515	-0.97	32.45	26.11	
			50	0515	-1.27	32.68	26.30	
			100	0445	-1.37	32.74	26.35	
			200	0445	-1.16	33.73	27.14	
			300	0450	-0.66	33.87	27.25	
			400	0420	2228	0.19	34.16	27.44
			500	0420	0.64	34.09	27.35	

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
416	Aug. 7 1952	284	0	1615	2132	7.9	16.09	12.53
			10	1700		2.91	28.06	22.39
			25	1700		2.05	29.61	23.69
			50	1700		0.77	30.31	24.31
			100	1635		0.04	31.51	25.32
			200	1635		-0.67	31.91	25.66
502	July 13 1953	22	0	1555	1010	10.5	10.44	7.84
503	July 21 1953	76	0	1620	1340	5.0	31.36	24.82
			10	1630		3.48	31.46	25.04
			25	1630		2.67	31.69	25.30
505	July 24 1953	100	0	1035	1504	5.6	31.18	24.61
			10	1050		3.98	31.35	24.91
			25	1050		1.48	32.70	26.18
			50	1040		0.36	32.83	26.36
			90	1040		-0.52	32.88	26.44
506	July 24 1953	137	0	1545	1424	4.5	29.36	23.29
			10	1610		3.33	30.34	24.17
			25	1610		2.29	32.20	25.73
			50	1600		-1.10	32.86	26.44
			100	1600		-1.56	33.33	26.83
507	July 24 1953	146	0	1900	1349	3.50	29.31	23.33
			10	1950		4.76	31.51	24.97
			25	1950		4.14	32.00	25.41
			50	1930		-1.34	32.25	25.95
			100	1930		-1.42	33.15	26.69
			130	1930		-1.48	33.44	26.92

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
508	July 25 1953	95	0	1610	1229	5.70	31.62	24.94
			10	1640		5.67	31.56	24.91
			25	1640		2.38	31.91	25.50
			50	1625		-1.18	32.77	26.36
			80	1625		-1.18	32.74	26.33
509	July 25 1953	124	0	1830	0059	5.80	29.70	23.42
			10	1855		0.36	29.90	24.00
			25	1855		-1.64	31.53	25.37
			50	1845		-1.40	32.92	26.50
			100	1845		-1.42	32.77	26.38
510	July 25 1953	137	0	2045	0049	5.70	29.88	23.58
			10	2110		5.30	29.88	23.62
			25	2110		3.86	31.53	25.07
			50	2050		-1.25	32.48	26.14
			100	2050		-1.43	32.94	26.51
512	Sept. 8 1953	21	0	1420	1238	5.8	29.85	23.54
			10	1430		5.45	29.78	23.52
			18	1430		5.67	29.74	23.46
514	July 21 1953	7	0	1555	1850	6.25	30.72	24.17
			5	1600		4.68	30.97	24.54
515	Aug. 3 1953	137	0	1100	1722	5.30	30.12	23.81
			10	1130		5.29	30.62	24.20
			25	1118		3.14	31.47	25.09
			50	1118		-0.69	32.45	26.10
			100	1105		-1.51	33.22	26.75
			125	1105		-1.48	33.28	26.79



<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
516	Aug. 3 1953	219	0	1445	1657	7.50	29.92	23.39
			10	1507		5.48	30.46	24.05
			25	1507		0.56	31.87	25.58
			50	1507		-1.33	32.61	26.25
			100	1445		-1.36	32.86	26.45
			200	1445		-1.25	33.44	26.92
517	Aug. 3 1953	238	0	1820	1627	6.7	30.44	23.90
			10	1847		4.66	30.82	24.43
			25	1847		0.32	31.89	25.58
			50	1847		-1.45	32.56	26.21
			100	1827		-1.37	33.17	26.70
			200	1827		-1.24	33.37	26.86
520	Aug. 4 1953	136	0	1430	1804	6.7	28.71	22.55
			10	1450		5.81	29.04	22.90
			25	1450		3.52	29.51	23.49
			50	1435		-0.90	31.65	25.46
			100	1435		-1.23	33.01	26.57
			521	Aug. 5 1953		175	0	1250
10	1323	6.94			28.69		22.49	
25	1323	2.45			29.79		23.81	
50	1323	-1.21			31.20		25.11	
100	1257	-1.25			32.79		26.39	
160	1257	-1.11			33.15		26.68	
522	Aug. 5 1953	107	0	1550	1834	7.5	28.46	22.24
			10	1610		6.95	28.77	22.55
			25	1610		0.46	29.88	23.99
			50	1552		0.02	30.26	24.31
			90	1552		0.05	31.22	25.08

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
527	Aug. 9 1953	412	0	0855	0920	3.6	30.05	23.92
			10	0942		3.03	30.14	24.04
			25	0942		2.77	30.23	24.12
			50	0942		1.88	31.00	24.81
			100	0936		1.08	31.44	25.21
			200	0936		-0.75	32.88	26.45
			300	0907		-1.01	33.03	26.58
			400	0907		-1.23	33.04	26.59
529	Aug. 11 1953	420	0	0620	1021	5.3	29.36	23.21
			10	0703		4.49	29.65	23.52
			25	0703		1.62	30.90	24.74
			50	0703		-0.04	32.03	25.74
			100	0655		-0.38	32.66	26.25
			200	0644		-1.26	33.13	26.67
			300	0644		-1.33	33.30	26.80
			400	0655		-1.13	33.35	26.84
530	Aug. 11 1953	220	0	1015	1021	2.60	31.42	25.08
			10	1039		1.63	31.69	25.37
			25	1039		1.44	31.85	25.51
			50	1039		1.00	32.41	25.99
			100	1013		-1.02	32.86	26.44
			200	1013		-1.23	33.24	26.76
531	Aug. 11 1953	183	0	1445	1021	4.2	30.75	24.42
			10	1510		0.73	31.98	25.65
			25	1510		-0.30	32.38	26.02
			50	1510		-0.56	32.56	26.17
			100	1500		-0.96	32.95	26.52
			160	1500		-0.99	33.03	26.58

LIBRARY

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
535	Aug. 17 1953	155	0	1110	1513	1.8	32.34	25.88
			10	1134		1.27	32.38	25.95
			25	1134		0.99	32.66	26.19
			50	1134		0.90	32.54	26.10
			100	1114		0.42	32.83	26.36
			130	1114		0.04	32.83	26.38
543	Sept. 2 1953	265	0	0705	0624	1.90		
			10	0735		1.74	31.08	24.88
			25	0735		1.33	31.40	25.16
			50	0735		0.02	32.25	25.91
			100	0715		-0.80	32.99	26.54
			200	0715		-1.28	33.26	26.77
240	0715	2.08	33.17	26.72				
544	Sept. 2 1953	256	0	1035	0632	2.0	30.77	24.61
			10	1140		0.73	30.64	24.59
			25	1140		0.79	32.00	25.67
			50	1130		-0.41	32.54	26.16
			100	1105		-1.42	33.19	26.72
			200	1105		-1.50	33.39	26.89
240	1105	-1.99	33.33	26.85				
545	Sept. 2 1953	338	0	1540	1906	1.9	31.00	24.81
			10	1610		1.30	31.17	24.97
			25	1610		0.57	32.09	25.75
			50	1610		-1.10	32.72	26.33
			100	1550		-1.51	32.95	26.53
			200	1550		-1.64	33.37	26.87
300	1550	-1.70	33.57	27.03				

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
549	Sept. 4 1953	73	0	1035	0716	4.9	29.52	23.38
			10	1040	1040	4.76	29.43	23.32
			25	1040		3.03	30.26	24.13
			50	1040		-0.84	32.54	26.17
551	Sept. 11 1953	104	0	1025	0621	6.2	27.74	21.83
			10	1050		6.32	29.65	23.32
			25	1050		6.25	30.59	24.06
			40	1035		6.23	30.79	24.22
			80	1035		5.70	31.33	24.71
553	Sept. 13 1953	73	0	1130	0755	6.5	30.14	23.68
			10	1130		6.50	30.44	23.92
			25	1140		6.38	30.21	23.76
			50	1140		6.33	30.41	23.92
603	July 24 1954	108	0	1900	1732	4.0	28.95	23.00
			10	1910		4.42	29.74	23.60
			25	1910		-0.35	30.35	24.40
			50	1905		-0.86	31.78	25.56
			100	1905		-1.50	32.74	26.35
602	July 22 1954	20	0	1200	1522		29.63	
			1	1200		1.69	29.18	23.36
			3	1200		1.39	29.81	23.89
			5	1200		1.09	29.88	23.96
			10	1200		0.87	30.03	24.08
			15	1200		-0.62	31.20	25.09
602	Aug. 3 1954	27	0	0920	1346	3.5	30.84	24.55
			5	0940		1.80	30.88	24.72
			10	0930		1.38	31.06	24.88
			25	0910		-0.45	31.91	25.67

<u>Station</u>	<u>Date</u>	<u>Station depth</u> m.	<u>Sample depth</u> m.	<u>Time</u> EST	<u>Time, nearest High Water</u> EST	<u>Temperature</u> °C.	<u>Salinity</u> ‰	<u>Density</u> σ <sub>t</sub>
612	Aug. 10 1954	229	0	0955	0730	7.8	29.31	22.86
			10	1007		4.42	30.12	23.90
			25	1007		0.84	30.95	24.83
			50	1007		-1.02	31.87	25.65
			100	1035		-1.60	32.61	26.25
			200	0940		-1.24	32.97	26.54
617	Aug. 19 1954	100	0	1033	1208	3.4	31.20	24.85
			10	1033		1.92	31.24	24.99
			25	1033		2.09	31.62	25.29
			50	1033		0.40	31.65	25.41
			90	1033		-0.69	31.76	25.55
618	Aug. 21 1954	329	0	0930	1305	2.0	31.92	25.54
			10	0930		0.89	32.27	25.88
			25	0930		0.39	32.30	25.93
			50	0930		-0.76	32.74	26.33
			100	0945		-0.93	32.99	26.55
			200	0945		-0.47	33.39	26.85
			300	0945		-0.21	33.73	27.11