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Some Canadian Hydrographic Data
Atlantic Coast - 1937

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FISHERIES RESEARCH BOARD OF CANADA

SOME CANADIAN HYDROGRAPHIC DATA ATLANTIC COAST - 1937.

by

H. B. Hachey

The hydrographic data collected on the Atlantic Coast, by the Fisheries Research Board of Canada, are presented annually in the form of Manuscript Reports. The data contained herein consist of those collected, during 1937, at established stations and those collected in connection with investigations of the waters of the Scotian shelf. In some cases, data collected in 1936 are included to complete records of previous manuscript reports.

The locations of all stations are given in the manuscript report for 1936. Data for the following stations are tabulated:

Prince Stations 5, 6 and 533.

Zoarces Stations 50, 58, 59, 60, 61, 62, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133 and 134.

These data are primarily the property of the Fisheries Research Board of Canada, and permission should be obtained for the publication of any or all of these data.

ATLANTIC BIOLOGICAL STATION

Hydrographic data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Prince Sta. 5</u>				<u>Prince Sta. 5</u>			
1937				1937			
Jan. 13	0 m.	32.25	4.0	Aug. 13	0 m.	32.12	12.1
	10	32.18	4.05		10	32.07	11.29
	25	32.27	4.10		25	32.23	10.21
	50	32.50	4.57		50	32.38	9.78
	75	32.57	4.90		75	32.66	8.71
	90	32.63	4.94		90	32.66	8.71
Feb. 19	0 m.	32.03	2.4	Sept. 3	0 m.	32.30	13.0
	10	32.05	2.12		10	32.23	12.52
	25	32.01	2.18		25	32.23	12.14
	50	32.09	2.37		50	32.32	11.41
	75	32.09	2.50		75	32.47	10.72
	90	32.16	2.72		90	32.68	9.65
Mar. 10	0 m.	32.18	1.9	Oct. 16	0 m.	32.77	9.6
	10	32.09	2.06		10	32.72	10.12
	25	32.09	2.04		25	32.75	10.11
	50	32.22	2.22		50	32.74	10.12
	75	32.12	2.24		75	32.90	10.10
	90	32.20	2.47		90	33.12	9.77
Apr. 20	0 m.	31.56	4.0	Nov. 12	0 m.	32.68	7.1
	10	31.56	3.53		10	32.74	9.22
	25	31.69	3.45		25	32.75	9.11
	50	31.82	3.42		50	32.72	9.22
	75	32.00	3.25		75	32.95	9.53
	90	32.27	3.47		90	32.83	9.63
May 17	0 m.	29.99	7.3	Dec. 11	0 m.	32.39	6.1
	10	30.73	5.01		10	32.52	7.42
	25	31.17	4.96		25	32.54	7.31
	50	31.40	4.81		50	32.54	7.42
	75	32.01	4.39		75	32.75	7.51
	90	32.07	4.27		90	32.94	8.22
June 15	0 m.	31.40	7.2	<u>Prince Sta. 6</u>			
	10	31.44	7.03	1937			
	25	31.64	6.64	Jan. 6	0 m.	29.69	2.8
	50	31.76	6.43		10	30.08	3.11
	75	31.87	6.20		30	31.58	3.90
	90	32.12	5.70	Jan. 13	0 m.	31.35	3.5
July 10	0 m.	31.74	8.8		10	31.31	3.25
	10	31.74	8.60		30	31.62	3.46
	25	31.78	8.53	Jan. 20	0 m.	30.08	1.7
	50	31.80	8.41		10	31.35	3.18
	75	31.82	8.13		30	31.76	3.42
	90	31.91	7.91				

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Prince Sta. 6</u>				<u>Prince Sta. 6</u>			
1937				1937			
Jan. 27	0 m.	29.45	0.3	June 2	0 m.	23.73	12.7
	10	31.06	2.35		10	30.08	6.98
	30	31.40	2.62		30	30.59	6.38
Feb. 18	0 m.	29.09	0.3	June 9	0 m.	28.98	9.5
	10	30.26	0.89		10	30.61	7.57
	30	31.46	1.57		30	30.82	7.16
Feb. 24	0 m.	28.77	2.0	June 16	0 m.	28.10	11.3
	10	30.86	1.51		10	30.72	7.98
	30	31.56	1.66		30	31.06	7.58
Mar. 3	0 m.	29.60	0.9	June 23	0 m.	27.25	12.3
	10	29.56	1.21		10	30.64	8.43
	30	31.46	1.60		30	31.17	7.95
Mar. 10	0 m.	29.85	1.8	June 30	0 m.	27.03	12.8
	10	30.72	1.86		10	30.12	9.79
	30	31.60	1.76		30	30.95	8.99
Mar. 18	0 m.	26.00	1.8	July 7	0 m.	30.39	12.7
	10	31.17	1.86		10	30.91	10.02
	30	31.69	1.76		30	31.29	9.24
Mar. 24	0 m.	30.91	0.9	July 14	0 m.	28.30	14.3
	10	31.02	1.64		10	30.81	10.78
	30	31.22	1.82		30	31.31	10.98
Apr. 20	0 m.	26.31	5.0	July 20	0 m.	29.61	14.6
	10		4.07		10	31.08	10.85
	30	31.26	3.47		30	31.53	9.97
Apr. 28	0 m.	27.47	5.7	July 28	0 m.	28.30	15.8
	10	29.51	4.41		10	31.18	11.77
	30	30.90	3.86		30	31.64	10.96
May 5	0 m.	25.93	7.7	Aug. 4	0 m.	31.00	13.3
	10	30.52	5.00		10	31.42	11.80
	30	30.90	4.83		30	31.78	11.34
May 13	0 m.	29.87	6.5	Aug. 11	0 m.	29.38	15.7
	10	30.55	5.81		10	30.19	13.29
	30	30.88	5.62		30		12.31
May 19	0 m.	19.25	10.0	Aug. 18	0 m.	31.20	14.5
	10	30.61	6.19		10	31.38	13.19
	30	30.90	5.55		30	31.96	11.98
May 26	0 m.	23.91	10.3	Aug. 26	0 m.		14.3
	10	29.72	6.41		10	31.58	13.41
	30	30.79	5.83		30	31.96	12.68

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Prince Sta. 6</u>				<u>Prince Sta. 6</u>			
1937				1937			
Sept. 1	0 m.	30.88	14.9	Dec. 1	0 m.	31.18	5.1
	10	31.53	13.62		10	31.73	7.20
	30	31.96	12.71		30	32.18	7.83
Sept. 9	0 m.	30.93	13.8	Dec. 8	0 m.	31.31	4.3
	10	31.82	13.00		10	31.44	6.31
	30	31.98	11.78		30	31.58	6.42
Sept. 15	0 m.	31.08	13.1	Dec. 15	0 m.	31.42	4.2
	10	31.36	13.11		10	31.51	5.30
	30	32.18	11.41		30	31.80	5.42
Sept. 22	0 m.	31.69	12.7	Dec. 22	0 m.	30.41	2.2
	10 m.	31.78	12.40		10	30.73	4.29
	30	31.98	12.38		30	32.05	5.42
Sept. 29	0 m.	31.47	12.0	Dec. 30	0 m.	31.60	2.2
	10	31.58	12.26		10	31.98	4.29
	30	32.16	12.15		30	32.18	4.42
Oct. 6	0 m.	31.35	12.2	<u>Prince Sta. 533</u>			
	10	31.40	11.85	1936			
	30	32.21	11.49	Nov. 27	0 m.	30.70	7.0
Oct. 13	0 m.	31.22	10.4		5	30.66	6.45
	10	31.91	10.80		10	30.70	6.45
	30	32.25	10.81		20	31.09	6.65
Oct. 20	0 m.	32.07	10.5	Dec. 2	0 m.	30.26	5.0
	10	32.16	10.13		5 m.	30.46	5.35
	30	32.48	10.12		10	30.79	5.85
Oct. 27	0 m.	28.40	10.2		20	31.04	5.34
	10	31.80	10.29	Dec. 19	0 m.	28.42	4.3
	30	32.45	10.29		5	29.47	4.65
Nov. 5	0 m.	29.92	8.4		10	30.48	5.45
	10	31.06	9.24		20	30.88	5.65
	30	32.14	9.64	Dec. 30	0 m.	30.14	4.2
Nov. 10	0 m.	31.94	7.1		5	30.61	3.64
	10	31.96	5.98		10	31.04	3.32
	30	32.39	9.22		20	31.65	3.43
Nov. 17	0 m.	31.17	7.1	1937			
	10	31.69	8.31	Feb. 10	0 m.	30.44	2.0
	30	32.30	8.63		5	30.48	1.01
Nov. 24	0 m.	29.79	4.1		10	30.48	1.31
	10	30.77	7.33		20	30.79	0.39
	30	31.96	8.02	Feb. 22	0 m.	30.01	0.9
					5	30.26	0.61
					10	30.75	0.19
					20	30.91	0.19

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Prince Sta. 533</u>				<u>Prince Sta. 533</u>			
1937				1937			
Apr. 14	0 m.	30.59	3.6	July 24	0 m.	29.52	17.5
	5	30.62	3.54		5	30.52	16.04
	10	30.86	3.23		10	30.70	12.33
	20	30.91	2.93		20	30.97	9.55
Apr. 28	0 m.	30.61	4.9	July 29	0 m.	29.94	19.6
	5	30.75	4.65		5	30.93	9.04
	10	30.88	4.85		10	31.15	7.64
	20	31.08	3.42		20	31.47	6.55
May 20	0 m.	30.01	7.5	<u>Zoarces Sta. 50</u>			
	5	30.32	7.05	1937			
	10	30.39	6.85	Feb. 4	0 m.	31.65	2.2
	20	30.97	4.94		10	31.60	3.28
June 3	0 m.	29.34	11.3		25	31.60	3.38
	5	30.64	6.34		50	31.64	3.39
	10	31.06	5.34		75	33.33	4.68
	20	31.38	5.04		90	33.71	5.44
June 11	0 m.		9.3	May 5	0 m.	31.98	5.7
	5	30.53	7.14		10	31.96	4.46
	10	30.73	6.59		25	31.96	3.67
	20	31.42	4.93		50	32.79	3.55
June 17	0 m.	29.83	10.3		75	33.13	4.02
	5	30.43	8.04		90	33.13	4.82
	10	31.22	5.74	Aug. 21	0 m.	31.09	19.2
	20	31.46	5.04		10	31.04	19.29
June 24	0 m.	28.95	11.4		25	31.62	11.67
	5	29.54	9.95		50	32.14	2.27
	10	31.18	6.23		75	32.36	1.98
	20	31.58	5.23		100	33.39	5.31
July 2	0 m.	29.40	14.5	<u>Zoarces Sta. 58</u>			
	5	29.94	14.24	1937			
	10	30.14	12.44	Feb. 5	0 m.	30.97	1.6
	20	30.70	7.66		10	30.95	0.57
July 8	0 m.	29.54	15.0		25	30.97	0.63
	5	30.93	5.98		50	30.93	0.68
	10	31.29	5.42		75	30.99	0.72
	20	31.53	4.37	May 5	0 m.	31.11	5.3
July 15	0 m.	29.88	16.0		10	31.04	4.18
	5	30.41	14.95		25	31.24	2.57
	10		14.45		50	31.73	1.76
	20	31.00	7.22		75	32.57	3.22
				Aug. 21	0 m.	31.33	13.6
					10	31.62	6.56
					25	32.12	2.39
					50	32.27	2.05
					75	32.61	2.60

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Zoarces Sta. 59</u>				<u>Zoarces Sta. 122</u>			
1937				1937			
Feb. 13	0 m.	31.47	1.7	Feb. 4	0 m.	31.00	1.6
	10	31.44	1.26		10	30.99	2.16
	25	31.42	1.41		25	31.04	2.16
	50	31.82	3.48		50	31.04	2.15
	75	32.47	3.43		65	31.46	3.33
	100	32.99	4.08				
	150	34.20	6.24	May 4	0 m.	31.73	3.8
					10	31.71	3.32
					25	31.69	2.95
					50	31.78	2.67
					62	31.80	2.67
<u>Zoarces Sta. 60</u>							
1937				Aug. 20	0 m.	31.71	16.5
Feb. 13	0 m.	31.18	0.9		10	31.98	12.00
	10	31.20	0.18		25	32.29	10.07
	25	31.22	0.21		50	32.41	4.57
	50	31.62	3.16		62	32.41	4.54
	75	32.07	3.04				
	100	32.12	2.82				
<u>Zoarces Sta. 61</u>				<u>Zoarces Sta. 123</u>			
1937				1937			
Feb. 13	0 m.	31.17	0.8	Feb. 4	0 m.	31.35	1.9
	10	31.17	0.40		10	31.27	2.24
	25	31.17	0.46		25	31.33	2.36
	50	31.40	1.61		50	31.42	2.87
					75	32.07	3.23
					100	32.74	4.98
					150	33.37	4.48
					166	33.46	4.58
<u>Zoarces Sta. 62</u>							
1937				May 5	0 m.	31.82	3.9
Feb. 13	0 m.	30.91	1.0		10	31.83	3.52
	10	30.93	0.49		25	31.96	3.41
	25	31.29	1.07		50	32.07	3.77
	30	31.31	1.21		75	32.23	3.46
					100	32.97	4.43
					150	34.09	7.04
					166	34.31	7.15
<u>Zoarces Sta. 121</u>							
1937				Aug. 20	0 m.	31.53	17.0
Feb. 4	0 m.	30.99	2.0		10	31.53	17.00
	10	30.97	2.43		25	31.64	11.80
	25	30.97	2.41		50	32.29	2.86
	45	30.99	2.41		75	32.61	3.58
May 4	0 m.	31.53	4.0		100	33.01	4.35
	10	31.49	3.91		150	34.02	6.80
	25	31.56	3.12		166	34.31	7.08
	45	32.00	2.71				
Aug. 20	0 m.	32.09	12.5				
	10	32.32	8.57				
	25	32.27	7.20				
	45	32.50	4.96				

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Zoarces Sta. 124</u>				<u>Zoarces Sta. 126</u>			
1937				1937			
Feb. 4	0 m.	31.38	2.0	Feb. 5	0 m.	31.49	1.5
	10	31.33	2.51		10	31.40	2.63
	25	31.35	2.63		25	31.44	2.57
	50	31.60	2.88		50	31.35	2.68
	75	32.75	3.23		75	32.14	4.22
	80	32.72	3.23		100	32.86	4.64
					140	33.17	4.29
May 5	0 m.	31.73	3.60	May 5	0 m.	31.40	5.6
	10	31.69	2.92		10	31.38	3.56
	25	31.69	2.86		25	31.65	2.15
	50	31.71	2.51		50	31.76	2.17
	75	32.27	2.64		75	32.14	1.95
	80	32.27	2.62		100	32.88	4.08
Aug. 20	0 m.	31.44	17.2		140	34.09	7.05
	10	31.42	17.29	Aug. 21	0 m.	30.99	19.0
	25	31.65	8.52		10	31.00	19.02
	50	31.92	2.90		25	31.44	13.60
	75	32.52	3.48		50	32.32	4.23
	80	32.57	3.41		75	33.17	4.91
					100	33.60	6.19
					140	34.20	7.30
<u>Zoarces Sta. 125</u>				<u>Zoarces Sta. 127</u>			
1937				1937			
Feb. 4	0 m.	31.47	2.2	Feb. 8	0 m.	31.00	-0.5
	10	31.56	3.53		10	30.97	-0.51
	25	31.67	3.68		25	31.00	0.84
	50	31.62	3.78		50	31.11	0.01
	75	33.17	4.09		73	31.64	1.26
	100	33.57	4.93	May 12	0 m.	30.95	3.4
	150	34.16	6.44		10	30.91	2.94
	200	34.42	6.85		25	31.53	2.31
May 5	0 m.	31.89	4.5		50	31.71	0.99
	10	31.87	3.92		73	32.12	1.50
	25	31.91	3.56	Aug. 24	0 m.	31.17	15.7
	50	32.00	3.62		10	31.17	15.94
	75	32.38	2.43		25	31.62	4.17
	100	33.48	6.05		50	31.78	2.00
	150	34.38	7.45		73	32.30	2.88
	200	34.49	7.14				
Aug. 21	0 m.	31.04	18.9				
	10	30.99	18.96				
	25	31.36	12.33				
	50	32.21	2.64				
	75	32.94	4.56				
	100	33.42	5.72				
	150	34.33	7.82				
	165	34.36	7.90				

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Zoarces Sta. 128</u>				<u>Zoarces Sta. 130</u>			
1937				1937			
Feb. 9	0 m.	32.03	3.9	Feb. 9	0 m.	31.40	2.5
	10	31.91	3.98		10	31.38	2.53
	25	31.92	4.18		25	31.40	2.44
	50	32.10	4.70		50	31.46	2.63
	75	32.97	4.12		60	32.38	3.73
	100	33.53	4.96				
	150	34.02	6.04	May 12	0 m.	32.03	5.3
	165	34.04	6.04		10	31.94	5.10
May 12	0 m.	31.91	4.5		25	32.03	4.21
	10	31.83	3.47		50	32.03	3.92
	25	31.85	3.25		60	32.10	3.51
	50	32.01	1.50	Aug. 25	0 m.	31.55	17.6
	75	32.38	1.77		10	31.60	17.84
	100	32.90	3.88		25	32.21	15.16
	150	34.23	6.95		50	32.88	2.76
	176	34.33	7.34		75	32.95	2.93
Aug. 24	0 m.	31.08	18.1	<u>Zoarces Sta. 131</u>			
	10	31.06	17.45	1937			
	25	31.65	8.02	Feb. 9	0 m.	31.15	0.6
	50	32.30	2.61		10	31.20	0.30
	75	32.84	3.38		25	31.22	0.31
	100	33.42	5.37		38	31.24	0.30
	150	34.22	7.29	May 13	0 m.	31.58	2.6
	185	34.38	7.47		10	31.58	2.17
<u>Zoarces Sta. 129</u>					25	31.74	1.71
1937					41	31.78	1.66
Feb. 9	0 m.	32.16	5.2	Aug. 25	0 m.	31.00	17.6
	10	32.12	5.22		10	31.00	17.88
	25	32.16	5.20		25	31.76	9.98
	50	32.10	5.17		41	31.80	9.59
	56	32.09	5.12	<u>Zoarces Sta. 132</u>			
May 12	0 m.	32.09	5.4	1937			
	10	32.00	4.58	Feb. 10	0 m.	31.44	-0.3
	25	31.98	3.51		10	31.49	-0.61
	50	32.10	3.41		25	31.44	-0.59
Aug. 24	0 m.	31.56	19.1		50	31.51	-0.51
	10	31.55	19.28		75	32.21	1.83
	25	32.54	14.51		100	32.45	2.10
	50	32.34	3.95		150	32.72	2.53
	61	32.54	6.48		200	32.83	2.58

ATLANTIC BIOLOGICAL STATION
Hydrographic Data 1937

<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>	<u>Date</u>	<u>Depth</u>	<u>Sal.</u>	<u>Temp.</u>
<u>Zoarces Sta. 132</u>				<u>Zoarces Sta. 134</u>			
1937				1937			
May 13	0 m.	31.20	2.6	May 13	0 m.	30.52	4.2
	10	31.53	1.41		10	30.52	3.25
	25	31.64	2.04		25	31.29	-1.46
	50	31.98	1.51		50	31.71	-0.08
	75	32.23	1.01		75	32.21	0.25
	100	32.32	1.31		100	32.65	1.00
	150	32.57	1.84		125	32.81	1.21
	200	32.72	2.12				
Aug. 25	0 m.	30.91	18.8	Aug. 25	0 m.	29.83	18.4
	10	30.90	18.5		10	29.81	18.27
	25	31.60	10.98		25	30.43	14.01
	50	32.16	1.69		50	31.87	2.74
	75	32.45	1.29		75	32.54	1.53
	100	32.48	1.33		100	33.01	1.49
	145	32.74	1.77		125	33.13	1.72
<u>Zoarces Sta. 133</u>							
1937							
Feb. 10	0 m.	31.49	-0.7				
	10	31.49	-0.79				
	25	31.49	-0.82				
	50	31.60	-0.64				
	65	31.80	0.51				
May 13	0 m.	30.75	2.7				
	10	30.70	2.59				
	25	31.29	1.46				
	50	31.83	0.54				
	63	31.92	0.55				
Aug. 25	0 m.	31.09	18.8				
	10	31.02	18.48				
	25	31.87	14.13				
	50	32.25	1.06				
	65	32.39					
<u>Zoarces Sta. 134</u>							
1937							
Feb. 10	0 m.	31.24	-0.7				
	10	31.24	-1.20				
	25	31.29	-1.31				
	50	31.40	-1.01				
	75	31.44	-0.91				
	100	32.12	1.54				
	125	32.52	2.14				