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OCEANOGRAPHIC SURVEY
PENOBSCOT BAY, MAINE 1959

An oceanographic survey was made of Penobscot Bay, Maine, during the period 5 to 13 August 1959. Mr. R. L. Cory, NAVOCEANO Code 9220, was Chief Scientist aboard USS LITTLEHALES (AGSC-15).

A multisampler (IR 0-25-62) was used to measure temperature, conductivity, and depth. Salinity was computed from temperature and conductivity.

Data are presented by depth for 21 stations at 20 locations. Station numbers in the tables are arranged to indicate area, station, and consecutive occupation of station e.g., "66" is area, "-2" is station, and "-1" consecutive occupation of station

In addition to the data presented, NAVOCEANO TR-173 contains subbottom profiles and data from cores and grab samples.

NON-NODC PREPARED FORMS	
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TEMPERATURE/CONDUCTIVITY STATIONS (PENOBSCOT BAY)
August 1959

Sta. No. 66-2-1
5 August

1210 GMT

Depth (m)	Temp. (°C)	E. Cond. (rho/cm)	
0	16.1*	.0376	29.50
6	15.8*	.0362	30.63
12	14*	.0359	31.52
18	11.7*	.0354	31.62
24	10.3*	.0351	31.72
30	10.3*	.0341	31.57
37	9.0*	.0338	31.52
43	9.1	.0339	31.52
49	9.1	.0340	31.62
55	9.2	.0341	31.67
61	9.5	.0346	31.92
63	9.6	.0346	31.82

Sta. No. 66-4-1
5 August

1240 GMT

Depth (m)	Temp. (°C)	E. Cond. (rho/cm)	
0	14.2*	.0377	30.61
6	13.2*	.0371	31.11
12	11.3*	.0361	31.81
18	10.8*	.0355	31.61
24	10.4*	.0350	31.51
30	10.0*	.0347	31.51
37	9.3*	.0341	31.51
43	8.7*	.0338	31.51
49	8.8	.0338	31.61
55	8.8	.0338	31.61

Sta. No. 66-6-1
5 August

1210 GMT

Depth (m)	Temp. (°C)	E. Cond. (rho/cm)	
0	17.1*	.0375	28.91
6	17.1*	.0378	28.82
12	16.5*	.0360	27.71
18	12.6*	.0346	29.29
24	9.7*	.0339	31.02

Sta. No. 66-6-1
(Cont'd)

Depth (m)	Temp. (°C)	E. Co (rho)
43		.0334
49	8.1	.0334
58	8.8	.0336

Sta. No. 66-8-1
5 August

Depth

Depth (m)	Temp. (°C)	E. Co (rho)
0	17.0	.0377
12	11.7	.0358
18	10.0	.0347
24	9.5	.0341
30		.0338
37		.0338
43	8.8	.0337
47	8.8	.0337

Sta. No. 66-10-1
5 August

Depth (m)	Temp. (°C)	C
0	17.	.0377
6	15.	.0377
12	11.	.0358
18	10.	.0347
24	9.5	.0341
30	9.2*	.0338
37	9.1	.0338
43	9.1*	.0337
49	8.8*	.0337
55	8.8	.0337

* Variable

TEMPERATURE/CONDUCTIVITY STATIONS (PEROBSCOT 2 Y) CONT
August 1959

Sta. No. 66-12-1 145
5 August 1430 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal. (‰)
0	17.0*	.0375	28.65
6	16.5*	.0375	29.00
12	10.3*	.0343	30.92
18	9.5	.0341	31.42
24	9.2*	.0340	31.57
30	8.9	.0340	31.78
37	8.9	.0340	31.78
43	8.8	.0338	31.67
49	8.7	.0337	31.67
55	8.7	.0338	31.73

Sta. No. 66-14-1
5 August 1505 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal. (‰)
0	16.8*	.0368	28.17
6	14.6*	.0370	30.00
12	9.6*	.0342	31.42
18	9.1	.0338	31.42
24	8.7	.0335	31.46
30	8.7	.0335	31.46
37	8.6	.0334	31.46
43	8.6	.0334	31.46
49	8.6	.0334	31.46
55	8.6	.0334	31.46
61	8.6	.0334	31.46

Sta. No. 66-16-1
5 August 1545 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal. (‰)
0	16.4	.0342	26.25
3	14.7	.0367	29.63
6	11.3	.0346	30.34
9	9.6	.0341	31.32
12	9.1	.0338	31.42

Sta. No. 66-16-1
(Cont'd)

Depth (m)	Temp (°C)	E. Cond. (mho/cm)	Sal.
15	8.7	.0334	31.57
18	8.6	.0334	31.46
21	8.5	.0334	31.57
24	8.5	.0334	31.57
27	8.5	.0334	31.57
30	8.5	.0334	31.57
33	8.5	.0334	31.57
37	8.5	.0334	31.57

Sta. No. 66-18-1
5 August 1650

Depth (m)	Temp (°C)	E. Cond. (mho/cm)	Sal.
0	16.8*	.0362	27.00
3	14.7*	.0354	28.46
6	11.6	.0352	30.72
9	9.7	.0342	31.32
12	9.2	.0339	31.46
15	8.9*	.0337	31.46
17	8.8	.0335	31.36

Sta. No. 66-19-1 17
5 August

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal.
0	17.0*	.0368	28.17
3	16.8*	.0367	28.00
6	14.6*	.0353	30.00
9	9.6*	.0347	31.32
12	9.1	.0337	31.42
15	8.9	.0337	31.46
18	8.9	.0336	31.46

*Variable

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Sta

Depth

(m)

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table

TEMPERATURE/CONDUCTIVITY STATIONS (PENOBSCOT BAY) Cont'd
August 1959

Sta. No. 66-30-1
5 August

2000 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal. (‰)
0	15.9*	.0377	29.80
3	13.5*	.0361	30.00
6	11.3*	.0353	31.02
9	10.4	.0350	31.52
12	9.9	.0348	31.72
15	9.6	.0346	31.82
18	9.5	.0346	31.92
21	9.5	.0346	31.92
24	9.3	.0345	31.99
27	9.2	.0344	31.99
30	9.1	.0344	32.02
33	9.1	.0344	32.02
37	9.1	.0344	32.02
40	9.1	.0344	32.02
43	9.1	.0344	32.02
46	9.1	.0344	32.02

Sta. No. 66-32-1
5 August

2035 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)	Sal. (‰)
0	16.1*	.0376	29.80
3	12.1*	.0365	31.48
6	10.7*	.0353	31.52
9	10.1	.0351	31.92
12	10.0*	.0349	31.78
15	9.6	.0347	
18	9.5*	.0346	31.92
21	9.5	.0348	32.12
24	9.5	.0348	32.12
27	9.4*	.0346	31.99
30	9.2	.0345	32.10
33	9.2	.0345	32.10
37	9.2	.0345	32.10
40	9.1	.0345	32.12
43	9.1	.0345	32.12
46	9.1	.0345	32.12

*Variable

Sta. No. 66-34-1
5 August

21
21

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)
0	15.3*	.0360
3	14.3*	.0365
6	12.1*	.0366
9	11.1*	.0356
12	10.2*	.0352
15	10.0	.0351
18	9.9*	.0351
21	10.1	.0353
24	10.0	.0352
	9.9	
30	9.8	.0350
33	9.5	.0348
37	9.3	.0347
40	9.3	.0347
43	9.2	.0347
46	9.1	.0346
49	9.1	.0346
52	9.1	.0346
55	9.1	.0346
58	9.1	.0346

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Aug			
Depth	Temp		
	13.2		
	12.9		
8	11.2	00	
14	11.3	135	
	9.9		
	9.6		
	9		
	9.6	340	
14	9.6		
	9.2	0346	
15	9		31
			31

No. 60			
August			
		°C)	
		12	11
		18	
		27	
		54	9.0
		66	9.3
		70	9.3
		75	9.3
		80	9.3
		85	9.3
		90	9.3
		95	9.3
		100	9.3
		105	9.3
		110	9.3
		115	9.3
		120	9.3
		125	9.3
		130	9.3
		135	9.3
		140	9.3
		145	9.3
		150	9.3
		155	9.3
		160	9.3
		165	9.3
		170	9.3
		175	9.3
		180	9.3
		185	9.3
		190	9.3
		195	9.3
		200	9.3
		205	9.3
		210	9.3
		215	9.3
		220	9.3
		225	9.3
		230	9.3
		235	9.3
		240	9.3
		245	9.3
		250	9.3
		255	9.3
		260	9.3
		265	9.3
		270	9.3
		275	9.3
		280	9.3
		285	9.3
		290	9.3
		295	9.3
		300	9.3
		305	9.3
		310	9.3
		315	9.3
		320	9.3
		325	9.3
		330	9.3
		335	9.3
		340	9.3
		345	9.3
		350	9.3
		355	9.3
		360	9.3
		365	9.3
		370	9.3
		375	9.3
		380	9.3
		385	9.3
		390	9.3
		395	9.3
		400	9.3
		405	9.3
		410	9.3
		415	9.3
		420	9.3
		425	9.3
		430	9.3
		435	9.3
		440	9.3
		445	9.3
		450	9.3
		455	9.3
		460	9.3
		465	9.3
		470	9.3
		475	9.3
		480	9.3
		485	9.3
		490	9.3
		495	9.3
		500	9.3
		505	9.3
		510	9.3
		515	9.3
		520	9.3
		525	9.3
		530	9.3
		535	9.3
		540	9.3
		545	9.3
		550	9.3
		555	9.3
		560	9.3
		565	9.3
		570	9.3
		575	9.3
		580	9.3
		585	9.3
		590	9.3
		595	9.3
		600	9.3
		605	9.3
		610	9.3
		615	9.3
		620	9.3
		625	9.3
		630	9.3
		635	9.3
		640	9.3
		645	9.3
		650	9.3
		655	9.3
		660	9.3
		665	9.3
		670	9.3
		675	9.3
		680	9.3
		685	9.3
		690	9.3
		695	9.3
		700	9.3
		705	9.3
		710	9.3
		715	9.3
		720	9.3
		725	9.3
		730	9.3
		735	9.3
		740	9.3
		745	9.3
		750	9.3
		755	9.3
		760	9.3
		765	9.3
		770	9.3
		775	9.3
		780	9.3
		785	9.3
		790	9.3
		795	9.3
		800	9.3
		805	9.3
		810	9.3
		815	9.3
		820	9.3
		825	9.3
		830	9.3
		835	9.3
		840	9.3
		845	9.3
		850	9.3
		855	9.3
		860	9.3
		865	9.3
		870	9.3
		875	9.3
		880	9.3
		885	9.3
		890	9.3
		895	9.3
		900	9.3
		905	9.3
		910	9.3
		915	9.3
		920	9.3
		925	9.3
		930	9.3
		935	9.3
		940	9.3
		945	9.3
		950	9.3
		955	9.3
		960	9.3
		965	9.3
		970	9.3
		975	9.3
		980	9.3
		985	9.3
		990	9.3
		995	9.3
		1000	9.3

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7000734	F004	TR1457	9999	3107	31LI	1959/08/05	PENOB BY	13038

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