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.

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TR 1451

TEMPERATURE/CONDUCTIVITY STATIONS (PENOBSCOT BAY)
August 1959

Sta. No. 66-2-1
5 August 1210 GMT

Depth (m)	Temp. (°C)	E. Cond. (mho/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 G

Depth (m)	Temp. (°C)	E. Cond (mho/cm	
0	14.2*	.0374	30.6
6	13.2*	.0371	31.1
12	11.3*	.0361	31.8
18	10.8*	.0355	31.6
24	10.4*	.0350	31.5
30	10.0*	.0347	31.5
37	9.3*	.0341	31.5
43	8.7*	.0336	31.5
49	8.8	.0338	31.6
55	8.8	.0338	31.6

Sta. No. 66-6-1
5 August 1[illegible]0 GMT

Depth (m)	Temp (°C)	E. Cond. (mho/cm)	
0	17.1*	.0375	28.97
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 (mho/
		.0351
		.0334
[illegible]		.0335
49	8.1	.0334
58	8.8	.0336

Sta. No. 66-8-1
5 August

Depth		
	[illegible]	.0373
0	17.0	.0377
12	11.7	.0358
18	10.0	.0347
24	9.5	.0341
30		.0335
37		.0335
43	8.8	.0337
47	8.8	.0337

Sta. No. 66-10- Dept [illegible]
5 August 09 GMT

Depth (m)	Temp. (°C)	C
0	17.	.0
6	15.	.0
12	11.	.0
18	10.	
[illegible]	[illegible]	
30	9.2*	
37	9.1	
43	9.2*	
49	8.8*	.033
55	8.8	.033

* Variable

TEMPERATURE/CONDUCTIVITY STATIONS (PENOBSCOT B M) 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	31.57
49	8.7	.0337	31.57
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	28.25
3	14.7	.0367	29.63
6	11.3	.0346	30.34
9	9.6	.0341	31.32
12	9.1	.0338	31.42

*Variable

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

Depth (m)	Temp (°C)	E. Cond. (mho/cm)	Sal.
15	8.7	.0334	[illegible]
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	[illegible]
33	8.5	.0334	31.5
37	8.5	.0334	[illegible]

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

Depth (m)	Temp (°C	E. Cond. (mho/cm)	
0	16.8*	.0362	[illegible]
3	14.7*	.0354	28.46
6	11.6	.0352	30.[illegible]
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.	
0	17.0	.0368	
3	16.8	.0367	28.0
6	[illegible]	.0353	31.0
9	[illegible]	.0347	[illegible]
12	[illegible]	.0337	31.
15	[illegible]	.0337	31.
18	8.9	.0336	31.

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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	[illegible]
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	[illegible]
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)	[illegible] (‰)
0	16.1*	.0376	[illegible]
3	12.1*	.0355	31.46
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

Depth (m)	Temp. (°C)	E. Cond. (mho/cm)
0	[illegible]	[illegible]
3	14.3*	.0385
[illegible]	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
[illegible]	9.9	
30	[illegible]	[illegible]
33	9.5	.0346
37	9.3	.0347
40	9.3	.0347
43	9.2	.0347
46	[illegible]	.0346
49	9.1	.0346
52	9.1	.0346
55	9.1	.0346
58	9.1	.0346

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		0346	31

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Sta. No. 60-12

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