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Oceanographic Observations in the Inner New York Bight in Support of the 12-Mile Dumpsite Study 1987-1989

by
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Table of Contents

Abstract 1
Introduction 1
Cruises 1
Methods 2
Data 2
References 2

Cruise Station Locations and Data

Section A: *Albatross IV* 87-02 3
Section B: *Albatross IV* 87-03 13
Section C: *Albatross IV* 87-06 71
Section D: *Albatross IV* 88-03 99
Section E: *Albatross IV* 88-10 111
Section F: *Delaware II* 89-04 121
Section G: *Oregon II* 89-04 167

ABSTRACT

Oceanographic observations from seven cruises in the inner New York Bight during 1987 - 1989 are presented. The observations were part of the 12-Mile Dumpsite Study conducted by the Environmental Processes Division of the Northeast Fisheries Center. Vertical profiles and sub-sampled listings of the temperature, salinity, and sigma-t data for each station are presented.

INTRODUCTION

The Environmental Processes Division of the Northeast Fisheries Center conducted a three-year study (July 1986-August 1989) of the measurable effects on habitat and biota caused by the cessation of sludge deposition at the 12-mile dumpsite (12 MDS) in the New York Bight. The plan for the overall 12 MDS study and its sampling design are described in Environmental Processes Division (1988).

As part of the 12 MDS study, oceanographic (temperature and salinity) data were collected on seven cruises using conductivity/temperature/depth (CTD) profiling instruments. On one cruise, oxygen data also were collected at discrete depths through the water column. Vertical profiles and sub-sampled listings of these data are presented in this report.

CRUISES

The CTD observations made on each of the seven cruises are summarized in Table 1. On three of the cruises (ALB87-02, ALB88-03, and ALB88-10) the primary objective was to deploy or recover current meter moorings for the 12 MDS study and only a few transects of CTD stations were occupied. An additional current meter recovery cruise was conducted in the fall of 1987, but because of bad weather no CTD stations were completed.

The two cruises in May-June of 1987 and 1989 used the same grid of stations to survey the water properties in the inner New York Bight. Two surveys of the area were completed on each cruise. The cruises in August of 1987 and 1989 used a different grid of stations to survey the region. Due to requirements of other sampling programs on these cruises, the entire grid of stations was not completed before portions of it were repeated. As a result, distinct surveys, separate in time, do not exist. For display purposes in this report, the stations from the August 1989 cruise have been grouped into two surveys that covered at least most of the region and which were essentially separate in time.

Table 1. Summary of cruises collecting CTD data during the 12-mile dumpsite study

Section	Vessel	Cruise	Sampling Dates	# Stations	Coverage
A	*Albatross IV*	ALB87-02	9-11 May, 1987	20	Transects
B	*Albatross IV*	ALB87-03	13-20 May, 1987	153	2 Surveys
C	*Albatross IV*	ALB87-06	18-26 August, 1987	71	1 Survey
D	*Albatross IV*	ALB88-03	4-6 May, 1988	25	Transects
E	*Albatross IV*	ALB88-10	16-17 November, 1988	22	Transects
F	*Delaware II*	DEL89-04	6-17 June, 1989	118	2 Surveys
G	*Oregon II*	ORE89-04	12-21 August, 1989	133	2 Surveys

METHODS

Two CTD profiling instrument systems were used to collect the data presented in this report. In 1987 and 1988 a Neil Brown Instrument Systems Mark III instrument with a rosette water sampler was used. In 1989 an internally recording Sea-Bird Electronics, Inc. SBE9 instrument was used.

The Mark III CTD sampled at a rate of 15 scans per second. The data were displayed in real time and recorded on nine-track tape. In processing the data, only the down cast was used, unless it could not be retrieved or deemed unreliable. In those cases the up cast was substituted. During the up cast, water samples were collected at one or more depths to provide a quality control for the salinity data. During cruise ALB87-03, water samples were collected at up to twelve depths and analyzed by titration for dissolved oxygen content.

After a cruise, the data on the nine-track tapes were transferred to the NMFS VAX computer in Woods Hole, MA, where the data were processed to create the final, clean data. During the processing, obvious errors were removed and a latch filter was applied to create a series with increasing pressure. A lag correction was applied to compensate for the different response times of the temperature and conductivity sensors on the instrument. A depth correction was determined from the near- surface data values at each station and applied to the data for the station. The data were then averaged in 2 m intervals. The salinity of the quality control water samples was measured by a Guildline Autosal and compared with the corresponding CTD values to determine a salinity correction which was applied to the data.

The SBE9 CTD instrument sampled at a rate of eight scans per second. The data were collected and processed using the programs supplied with the instrument by Sea-Bird Electronics, Inc. At the bottom of each cast a water sample for salinity quality control was collected using a Niskin bottle. In processing the data the pressure latch option was activated and the data were averaged in 1 m intervals. The data were then transferred to the VAX computer, where a pressure and a salinity correction were applied, as described above for the Mark III system.

The final CTD data for each cruise were stored in a NODC standard format file on the NMFS VAX computer in Woods Hole, MA.

DATA

In the following sections (A-G), the individual cruises are presented in chronological order. A plot of the station locations is shown. If the cruise involved area-wide surveys of the inner New York Bight, the surface and bottom temperature and salinity distributions for each survey are presented. Then the temperature, salinity, and density (sigma-t) data in the upper 50 m of each station are plotted. Most stations were less than 50 m deep and for those that were deeper, most of the water column structure occurred in the upper 50 m. Beside the plots, a sub-sample of the data for each station is listed. For cruise ALB87-03, the only cruise with oxygen data, each depth for which an oxygen value exists is included in the listing.

REFERENCES

Environmental Processes Division. 1988. A plan for study: response of the habitat and biota of the inner New York Bight to abatement of sewage sludge dumping. NOAA NMFS Northeast Fisheries Center: Woods Hole, MA. NOAA Tech. Mem. NMFS-F/NEC-55. 34 pp.

Section A

Albatross IV 87-02
9-11 May 1987

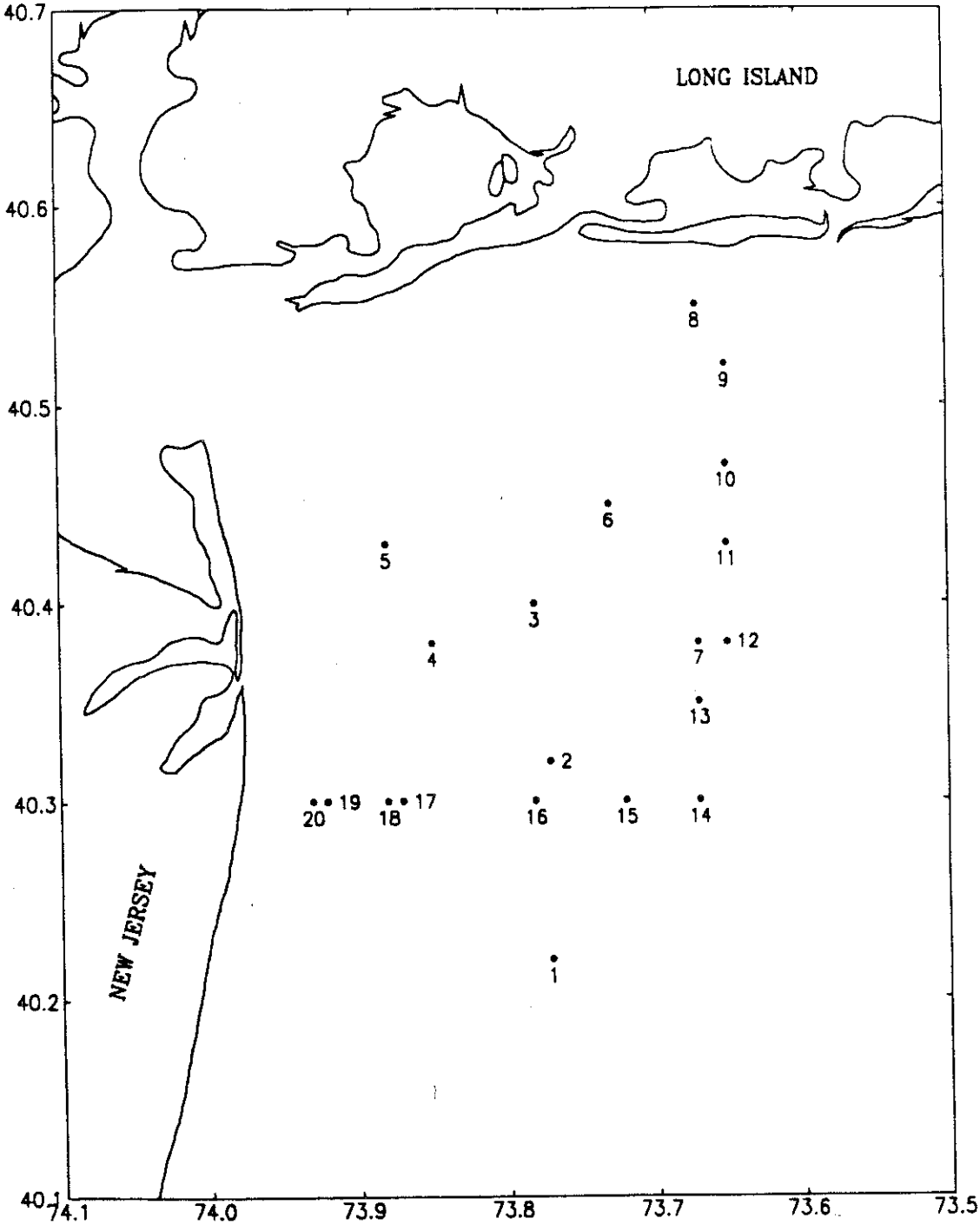


Figure A-1. Locations of CTD stations on cruise ALB87-02.

Sta 2 Depth 51 M Date 5/10/87
Lat 40 19.3N Lon 73 46.2W Time 130

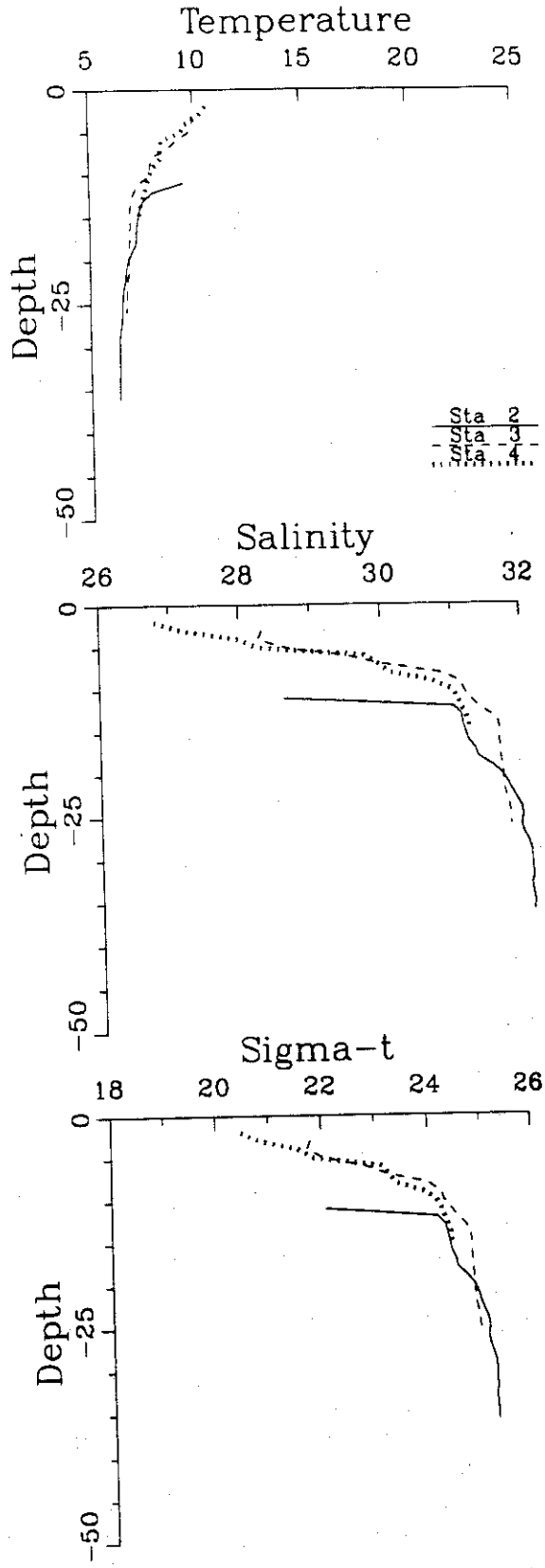
Depth	Temp	Salinity	Sigma-t	Oxygen
11	9.49	28.615	22.082	
12	8.02	31.025	24.178	
13	7.58	31.146	24.334	
14	7.40	31.167	24.375	
16	7.26	31.241	24.451	
17	7.21	31.335	24.532	
18	7.19	31.378	24.568	
19	6.98	31.577	24.752	
20	6.83	31.717	24.882	
22	6.71	31.851	25.002	
25	6.53	32.018	25.157	
27	6.51	32.029	25.168	
30	6.38	32.154	25.283	
32	6.38	32.170	25.295	
35	6.37	32.187	25.310	
36	6.37	32.184	25.307	

Sta 3 Depth 39 M Date 5/10/87
Lat 40 24.3N Lon 73 47.2W Time 306

Depth	Temp	Salinity	Sigma-t	Oxygen
3	9.94	28.332	21.793	
4	9.98	28.279	21.746	
5	9.79	28.640	22.056	
7	8.72	29.989	23.267	
10	7.94	31.181	24.311	
12	7.15	31.378	24.573	
15	6.93	31.682	24.841	
17	6.91	31.689	24.849	
20	6.85	31.734	24.892	
22	6.83	31.753	24.910	
25	6.75	31.836	24.985	
26	6.74	31.839	24.989	

Sta 4 Depth 18 M Date 5/10/87
Lat 40 23.7N Lon 73 51.7W Time 412

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.62	26.800	20.497	
3	10.28	27.223	20.879	
4	9.63	27.984	21.570	
5	9.42	28.295	21.844	
6	8.48	29.763	23.126	
7	8.40	29.963	23.294	
8	8.43	30.122	23.413	
9	8.11	30.704	23.914	
10	7.89	30.985	24.165	
11	7.78	31.087	24.260	
12	7.65	31.142	24.321	
13	7.51	31.206	24.390	
14	7.39	31.251	24.442	
15	7.36	31.265	24.457	



Sta 5 Depth 20 M Date 5/10/87
Lat 40 26.8N Lon 73 53.6W Time 518

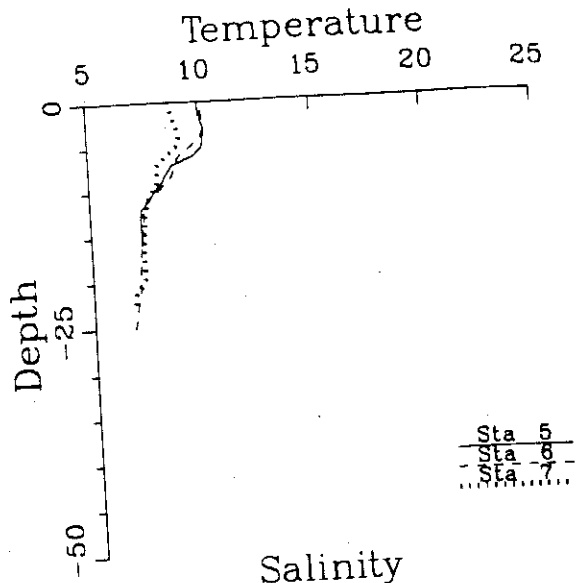
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.08	26.339	20.224	
2	10.08	26.323	20.212	
3	10.23	26.027	19.959	
4	10.18	26.029	19.968	
5	10.13	26.228	20.130	
6	9.69	27.149	20.912	
7	8.74	29.819	23.132	
8	8.48	30.727	23.879	
9	8.26	30.956	24.089	
10	7.92	31.130	24.274	
11	7.64	31.162	24.338	
12	7.29	31.225	24.435	
13	7.24	31.250	24.461	
14	7.25	31.267	24.473	
15	7.27	31.292	24.490	
16	7.26	31.311	24.506	

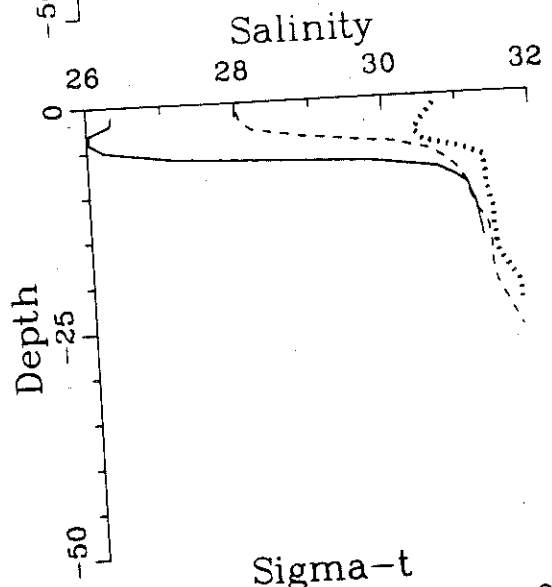
Sta 6 Depth 30 M Date 5/10/87
Lat 40 27.1N Lon 73 44.1W Time 654

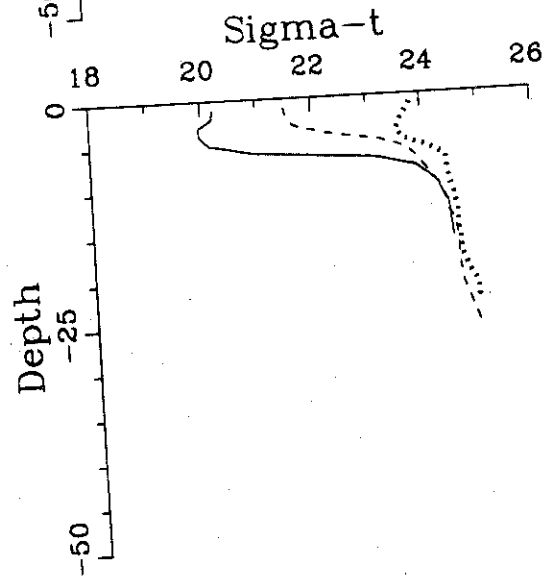
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.16	28.017	21.514	
3	10.20	28.214	21.660	
5	9.58	30.123	23.242	
7	8.87	30.826	23.898	
10	8.01	31.134	24.264	
12	7.38	31.195	24.399	
15	7.24	31.394	24.574	
17	7.20	31.419	24.599	
20	7.11	31.457	24.641	
22	7.01	31.543	24.721	
25	6.80	31.740	24.903	
26	6.72	31.799	24.960	

Sta 7 Depth 29 M Date 5/10/87
Lat 40 23.0N Lon 73 40.8W Time 742

Depth	Temp	Salinity	Sigma-t	Oxygen
1	8.78	30.696	23.810	
3	9.02	30.483	23.608	
5	8.96	30.541	23.662	
7	8.12	31.354	24.421	
10	7.81	31.368	24.476	
12	7.51	31.426	24.563	
15	7.38	31.461	24.608	
17	7.31	31.488	24.638	
20	7.27	31.684	24.797	
22	6.84	31.793	24.940	
23	6.83	31.795	24.943	







Sta 8 Depth 15 M Date 5/10/87
Lat 40 33.5N Lon 73 40.1W Time 936

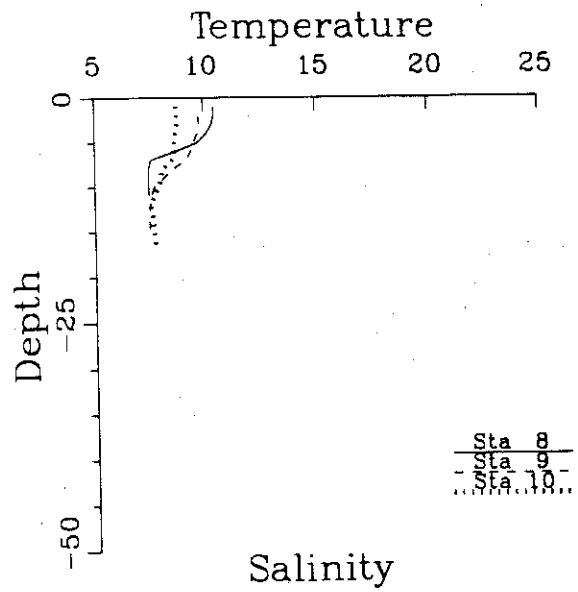
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.47	30.404	23.316	
2	10.47	30.400	23.313	
3	10.37	30.422	23.347	
4	10.15	30.457	23.410	
5	9.75	30.527	23.529	
6	8.74	30.688	23.810	
7	7.61	30.939	24.167	
8	7.48	30.976	24.214	
9	7.48	30.974	24.212	
10	7.47	30.977	24.216	
11	7.47	30.980	24.219	

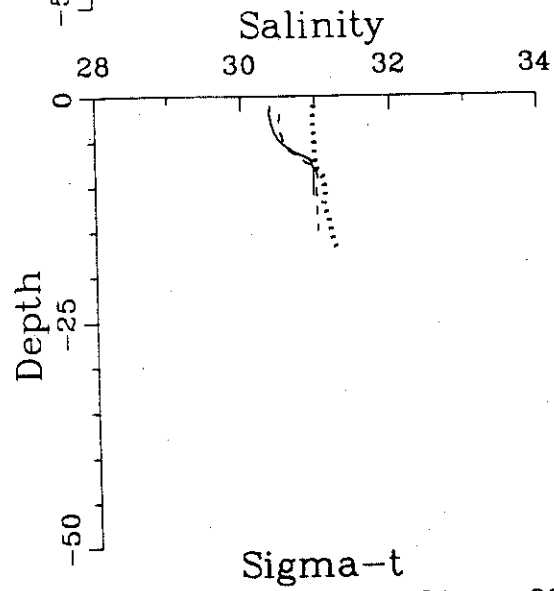
Sta 9 Depth 19 M Date 5/10/87
Lat 40 31.9N Lon 73 39.9W Time

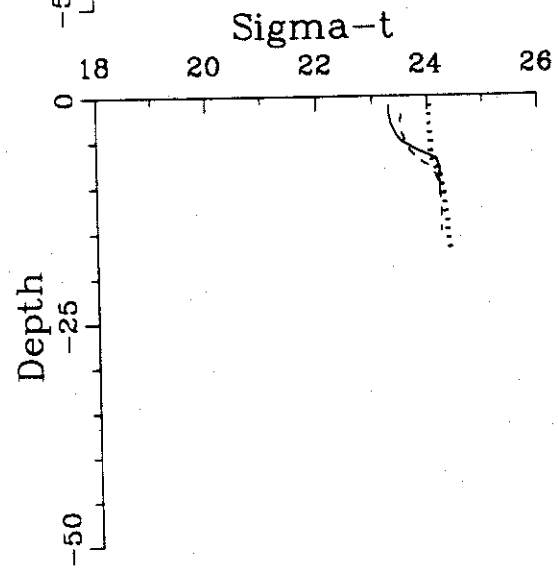
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.79	30.535	23.529	
3	9.83	30.527	23.516	
4	9.74	30.545	23.545	
5	9.55	30.581	23.603	
6	9.44	30.661	23.682	
7	9.25	30.813	23.830	
8	8.61	31.016	24.085	
9	8.20	31.032	24.157	
10	7.74	31.018	24.211	
11	7.60	31.019	24.231	
12	7.55	31.022	24.241	
13	7.54	31.021	24.241	
14	7.52	31.026	24.248	
15	7.52	31.024	24.246	

Sta 10 Depth 23 M Date 5/10/87
Lat 40 28.9N Lon 73 39.9W Time 1054

Depth	Temp	Salinity	Sigma-t	Oxygen
1	8.77	30.983	24.036	
3	8.80	30.980	24.029	
4	8.74	30.987	24.043	
5	8.69	30.993	24.055	
6	8.68	30.988	24.053	
7	8.56	31.001	24.081	
8	8.14	31.021	24.157	
9	8.02	31.109	24.243	
10	7.97	31.122	24.261	
11	7.73	31.126	24.297	
12	7.58	31.111	24.306	
13	7.63	31.151	24.331	
14	7.68	31.186	24.351	
15	7.70	31.205	24.363	
16	7.76	31.225	24.371	
17	7.81	31.276	24.404	







Sta 11 Depth 25 M Date 5/10/87
Lat 40 26.4N Lon 73 39.9W Time 1136

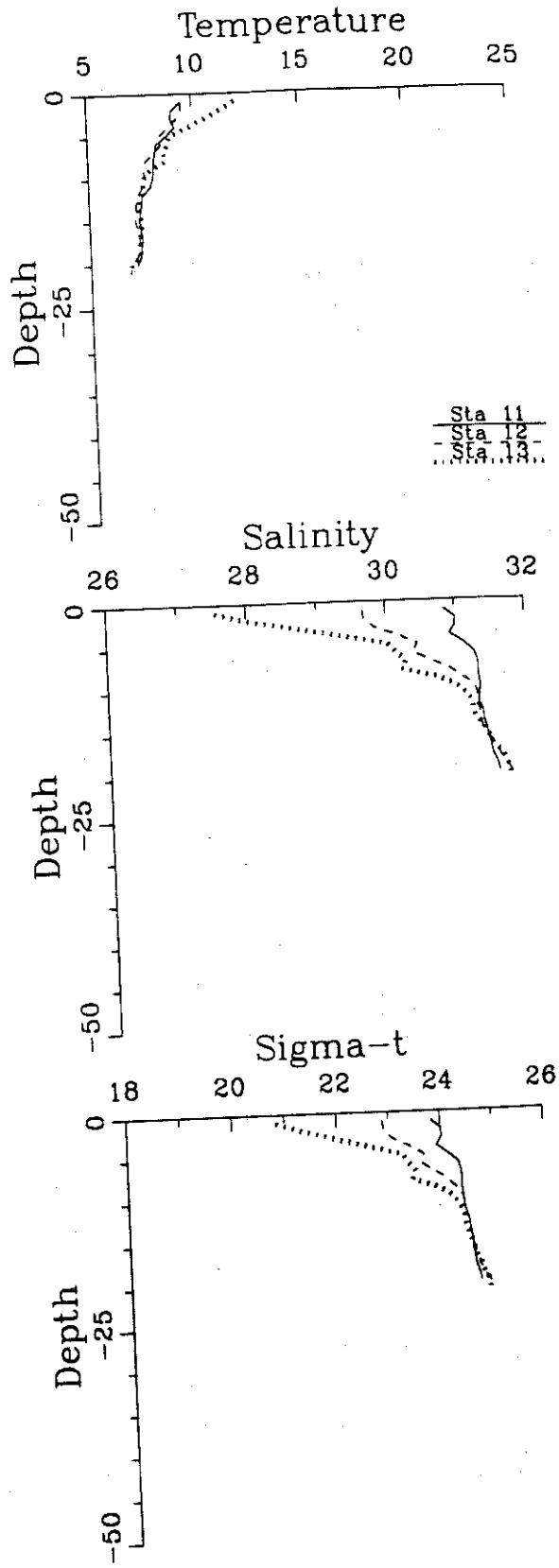
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.45	30.846	23.825	
3	8.96	31.003	24.023	
5	8.71	31.119	24.151	
7	8.16	31.319	24.388	
10	8.05	31.349	24.427	
12	7.50	31.322	24.482	
15	7.36	31.425	24.582	
17	7.47	31.476	24.607	
20	7.20	31.584	24.728	

Sta 12 Depth 27 M Date 5/10/87
Lat 40 23.5N Lon 73 39.9W Time 2318

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.50	29.666	22.898	
3	9.27	29.829	23.061	
5	8.38	30.460	23.685	
7	8.12	30.631	23.855	
10	7.71	31.267	24.410	
12	7.28	31.286	24.484	
15	7.17	31.363	24.559	
17	7.35	31.546	24.678	
20	6.94	31.761	24.902	
21	6.89	31.778	24.922	

Sta 13 Depth 27 M Date 5/11/87
Lat 40 21.0N Lon 73 40.0W Time 0

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.02	27.556	20.846	
4	9.77	29.368	22.625	
5	8.91	30.027	23.269	
7	8.59	30.278	23.512	
10	7.58	30.997	24.217	
12	7.43	31.228	24.418	
15	7.48	31.400	24.546	
17	7.32	31.505	24.650	
20	6.91	31.732	24.883	
21	6.88	31.741	24.894	



Sta 14 Depth 27 M Date 5/11/87
Lat 40 18.1N Lon 73 40.0W Time 42

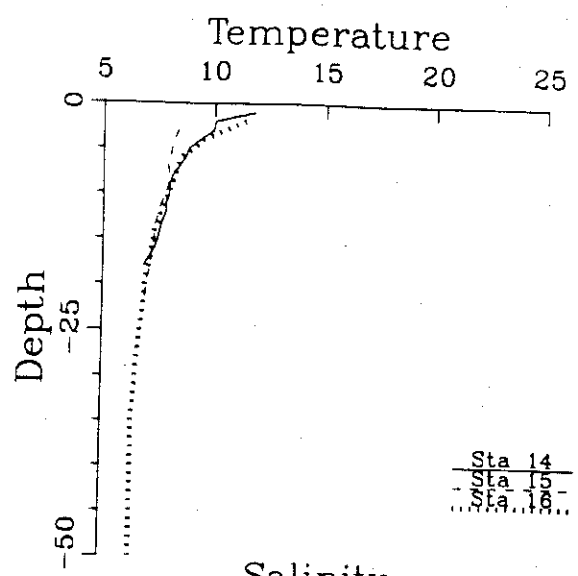
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.80	27.670	20.973	
2	10.04	29.355	22.572	
3	9.98	29.343	22.572	
4	9.40	29.960	23.143	
5	8.85	30.715	23.815	
6	8.73	30.984	24.042	
7	8.44	31.248	24.292	
8	8.13	31.337	24.406	
9	8.00	31.382	24.460	
10	7.99	31.411	24.484	
11	7.84	31.440	24.528	
12	7.84	31.518	24.589	
13	7.69	31.496	24.593	
14	7.57	31.528	24.634	
15	7.48	31.549	24.663	
16	7.34	31.580	24.706	
17	7.09	31.702	24.836	
18	6.86	31.771	24.920	

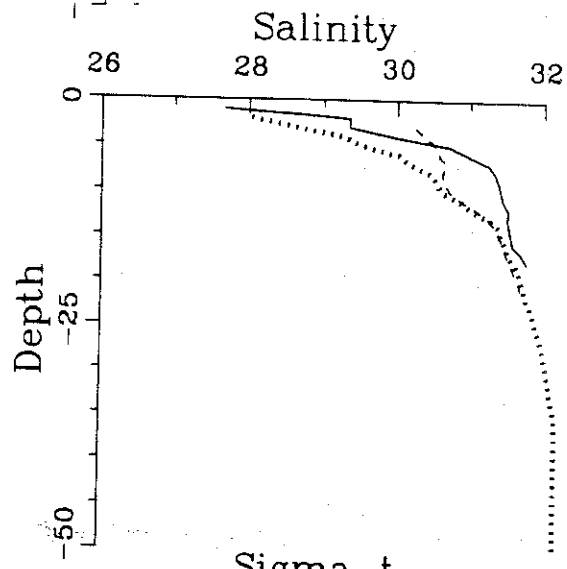
Sta 15 Depth 28 M Date 5/11/87
Lat 40 18.1N Lon 73 43.2W Time 130

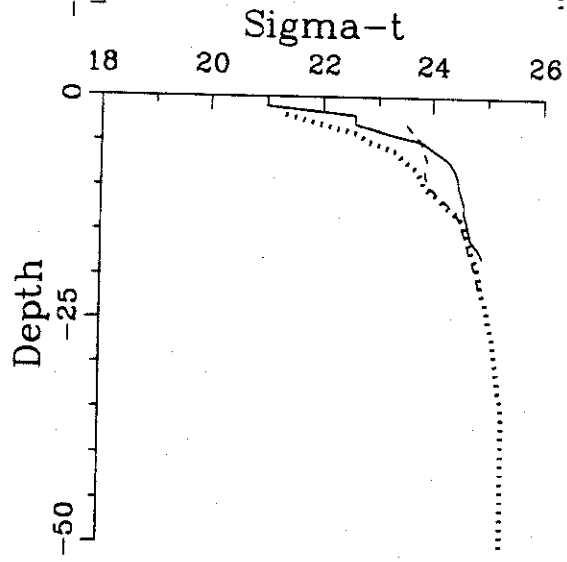
Depth	Temp	Salinity	Sigma-t	Oxygen
3	8.39	30.250	23.519	
4	8.23	30.391	23.652	
5	8.08	30.549	23.797	
7	7.93	30.670	23.913	
10	7.84	30.715	23.960	
12	7.53	31.083	24.291	
15	7.34	31.399	24.564	
17	7.19	31.493	24.658	
20	6.97	31.664	24.822	
22	6.92	31.701	24.857	

Sta 16 Depth 59 M Date 5/11/87
Lat 40 18.0N Lon 73 47.3W Time 212

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.39	28.031	21.323	
3	10.45	28.600	21.920	
5	9.13	29.515	22.837	
7	8.37	30.187	23.473	
10	8.00	30.613	23.858	
12	7.59	31.016	24.230	
15	7.27	31.413	24.585	
17	7.15	31.509	24.676	
20	6.91	31.696	24.855	
22	6.86	31.761	24.912	
25	6.72	31.897	25.037	
27	6.63	31.982	25.116	
30	6.54	32.059	25.188	
32	6.48	32.104	25.231	
35	6.39	32.183	25.304	
40	6.39	32.190	25.310	
45	6.39	32.190	25.310	
50	6.39	32.190	25.310	
54	6.38	32.191	25.312	







Sta 17 Depth 24 M Date 5/11/87
Lat 40 18.0N Lon 73 52.0W Time 254

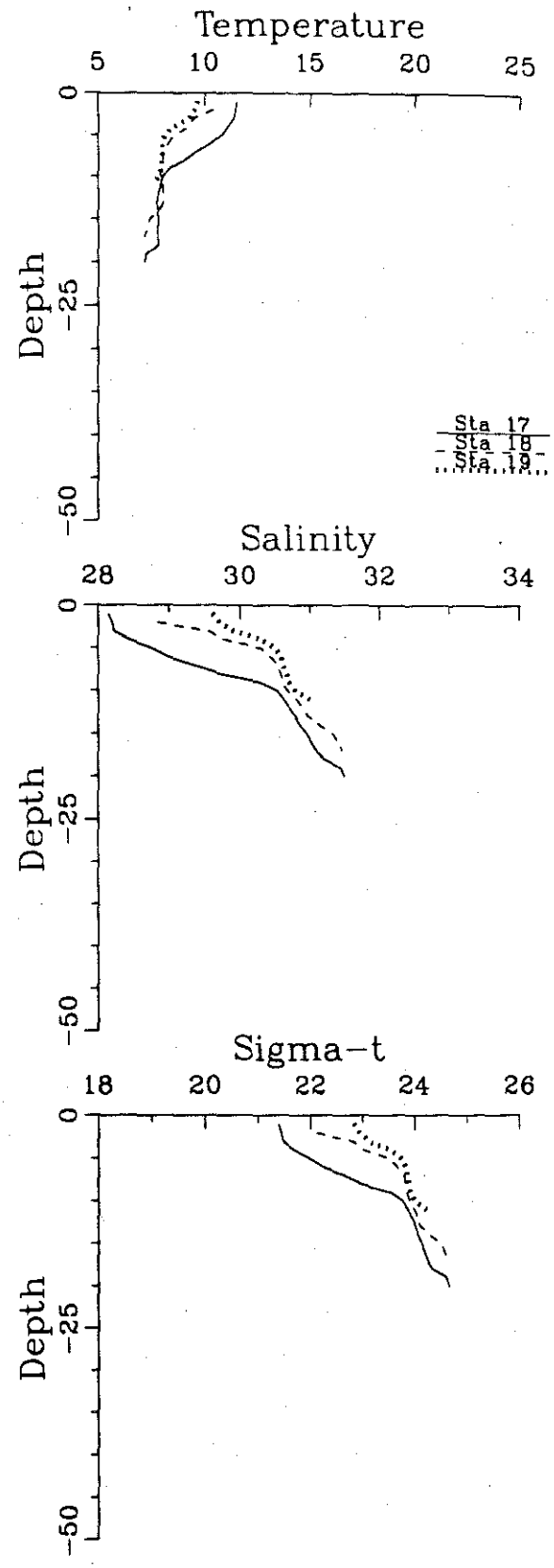
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.51	28.152	21.396	
3	11.37	28.222	21.474	
5	10.78	28.757	21.987	
7	9.61	29.374	22.654	
10	8.06	30.532	23.786	
12	7.83	30.712	23.959	
15	7.85	30.959	24.150	
17	7.80	31.086	24.256	
20	7.19	31.504	24.667	

Sta 18 Depth 23 M Date 5/11/87
Lat 40 18.2N Lon 73 53.0W Time 318

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.41	28.842	22.114	
3	9.50	29.551	22.809	
4	9.22	29.776	23.027	
5	8.61	30.291	23.519	
6	8.32	30.433	23.672	
7	8.07	30.543	23.794	
8	8.02	30.584	23.833	
9	7.96	30.617	23.867	
10	7.93	30.671	23.913	
11	8.07	30.810	24.002	
12	8.06	30.890	24.066	
13	8.05	30.973	24.133	
14	7.86	31.143	24.293	
15	7.42	31.339	24.507	
16	7.32	31.410	24.576	
17	7.16	31.462	24.638	

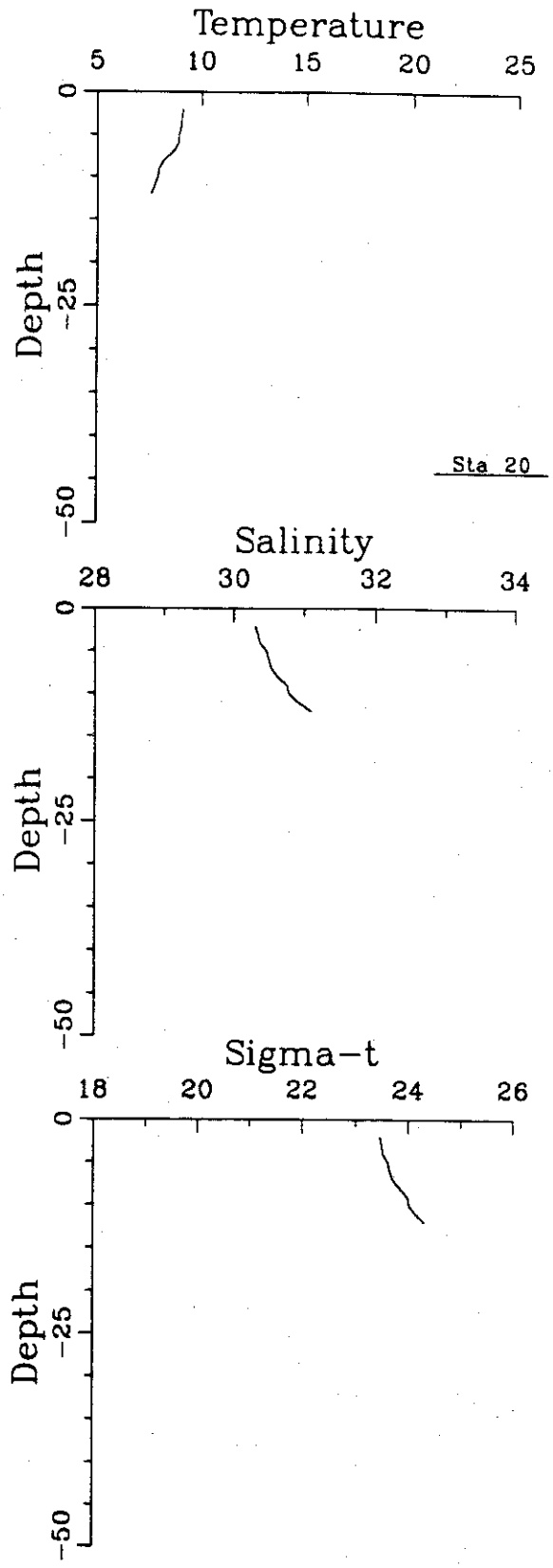
Sta 19 Depth 19 M Date 5/11/87
Lat 40 18.1N Lon 73 55.3W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.68	29.613	22.829	
2	9.52	29.715	22.933	
3	9.25	29.901	23.120	
4	8.54	30.312	23.546	
5	8.15	30.504	23.752	
6	8.02	30.587	23.835	
7	8.00	30.614	23.859	
8	7.98	30.661	23.899	
9	7.93	30.699	23.935	
10	7.83	30.795	24.024	
11	7.59	31.012	24.227	



Sta 20 Depth 17 M Date 5/11/87
Lat 40 18.2N Lon 73 56.8W Time

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.11	30.307	23.457	
3	9.06	30.343	23.493	
4	9.02	30.374	23.523	
5	8.91	30.472	23.616	
6	8.89	30.502	23.642	
7	8.66	30.539	23.705	
8	8.20	30.624	23.839	
9	7.94	30.759	23.981	
10	7.88	30.788	24.012	
11	7.75	30.918	24.132	
12	7.56	31.101	24.301	



Section B

Albatross IV 87-03
13-20 May 1987

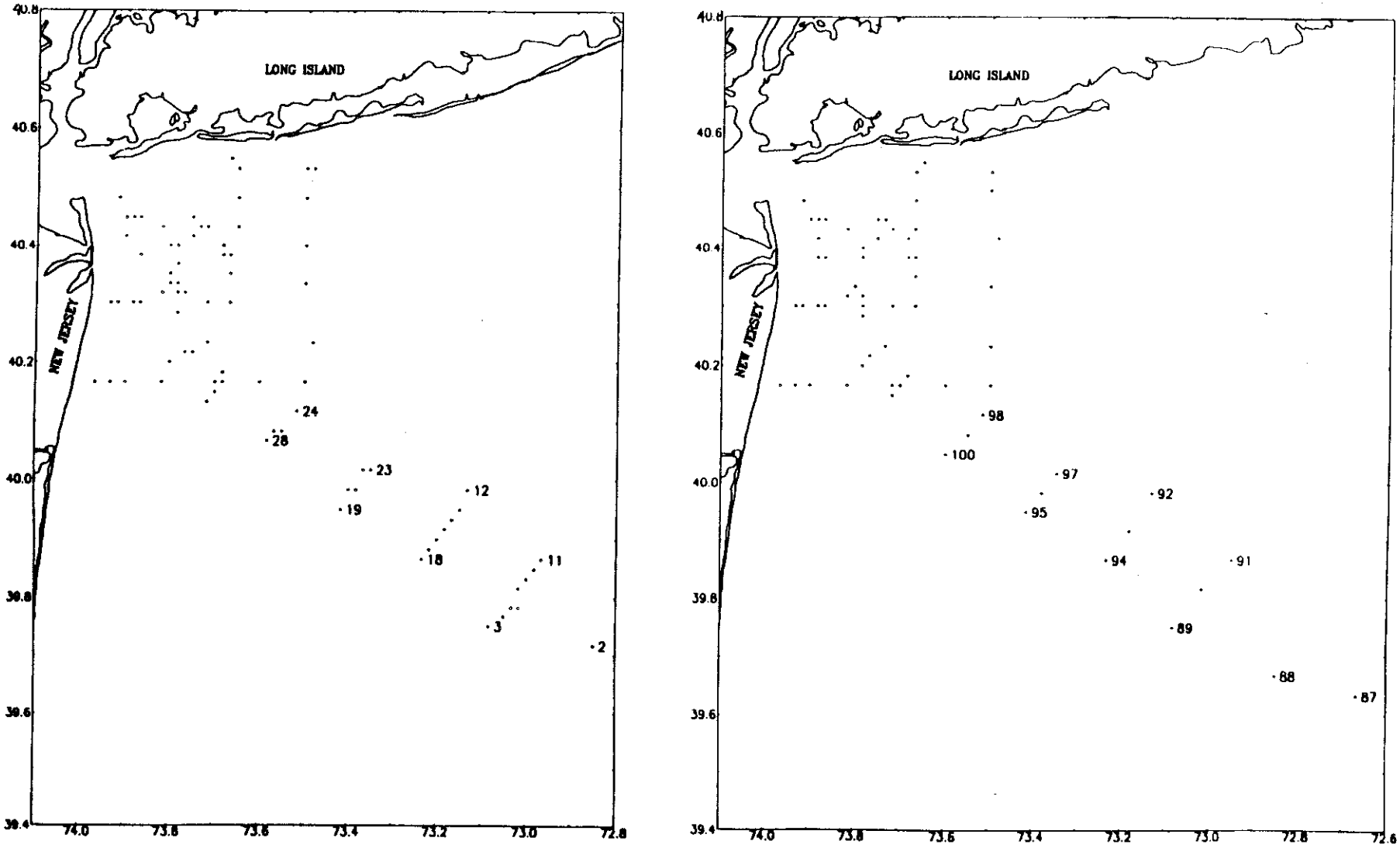


Figure B-1. Locations of CTD stations on cruise ALB87-03 during (a) the first survey and (b) the second survey. See Figure B-2 for an enlargement of the New York Bight area.

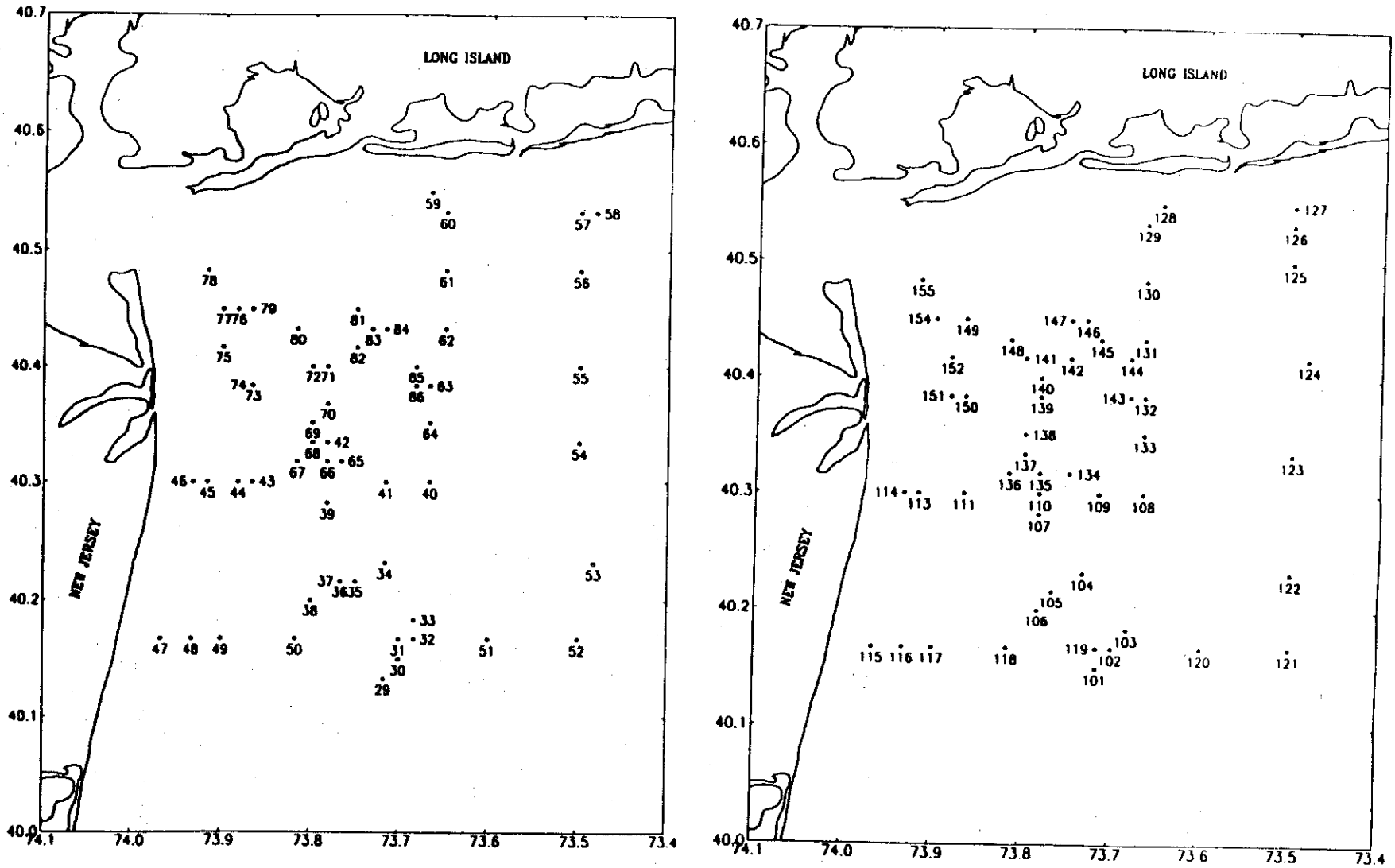


Figure B-2. Locations of CTD stations in the inner New York Bight on cruise ALB87-03 during (a) the first survey and (b) the second survey.

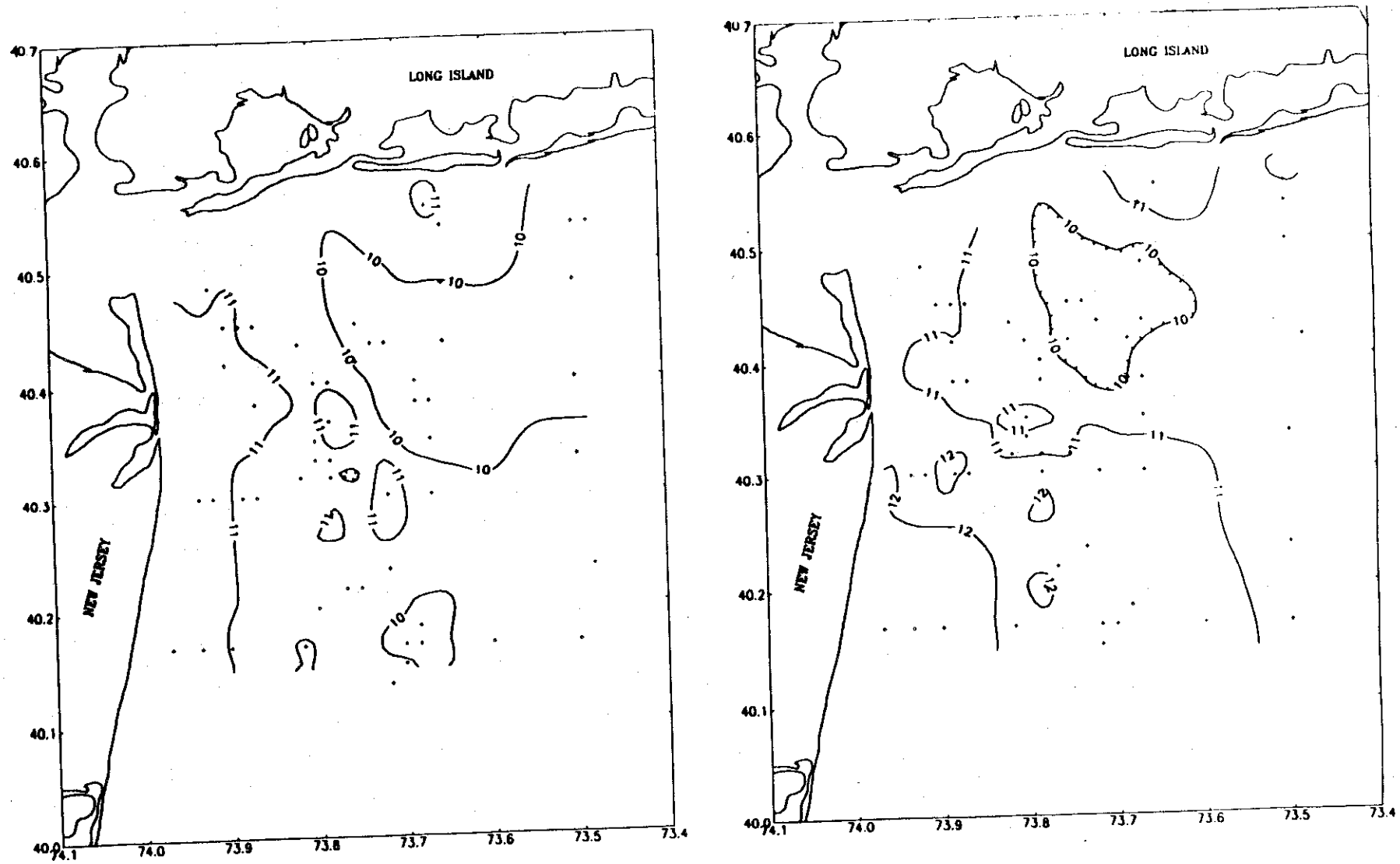


Figure B-3. Surface temperature on cruise ALB87-03 during (a) the first survey and (b) the second survey.

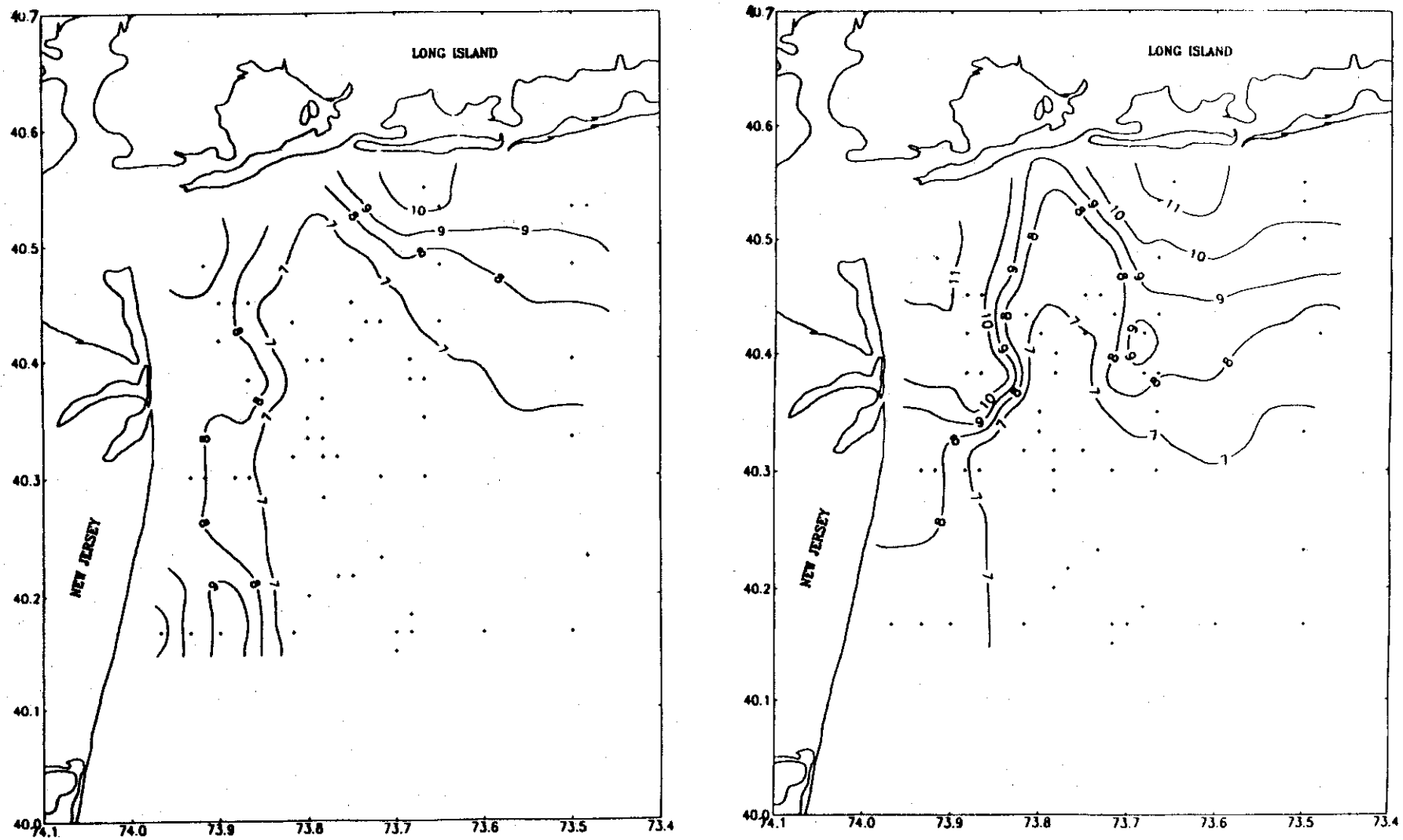


Figure B-4. Bottom temperature on cruise ALB87-03 during (a) the first survey and (b) the second survey.

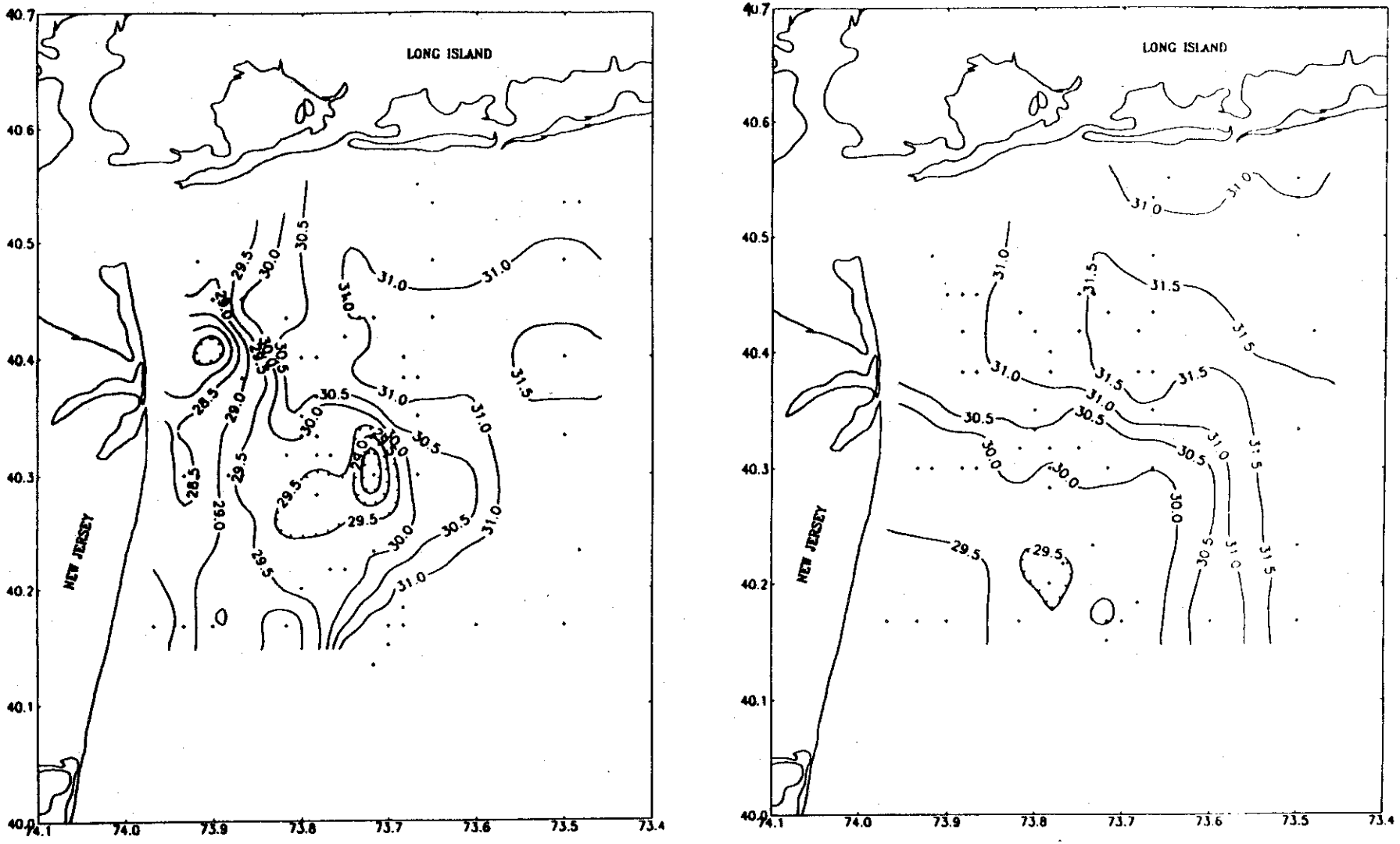


Figure B-5. Surface salinity on cruise ALB87-03 during (a) the first survey and (b) the second survey.

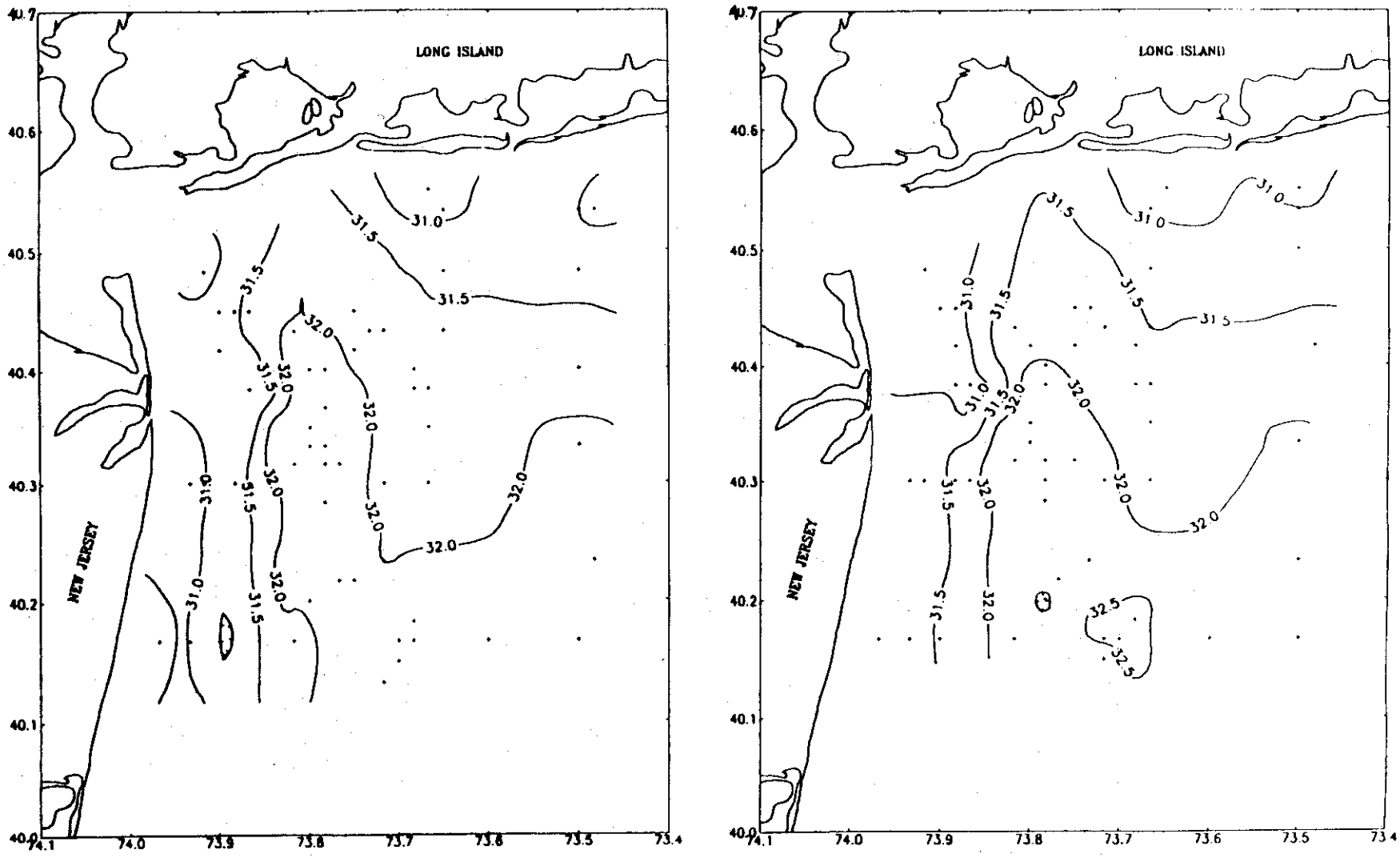


Figure B-6. Bottom salinity on cruise ALB87-03 during (a) the first survey and (b) the second survey.

Sta 2 Depth 73 M Date 5/13/87
Lat 39 43.0N Lon 72 51.5W Time 600

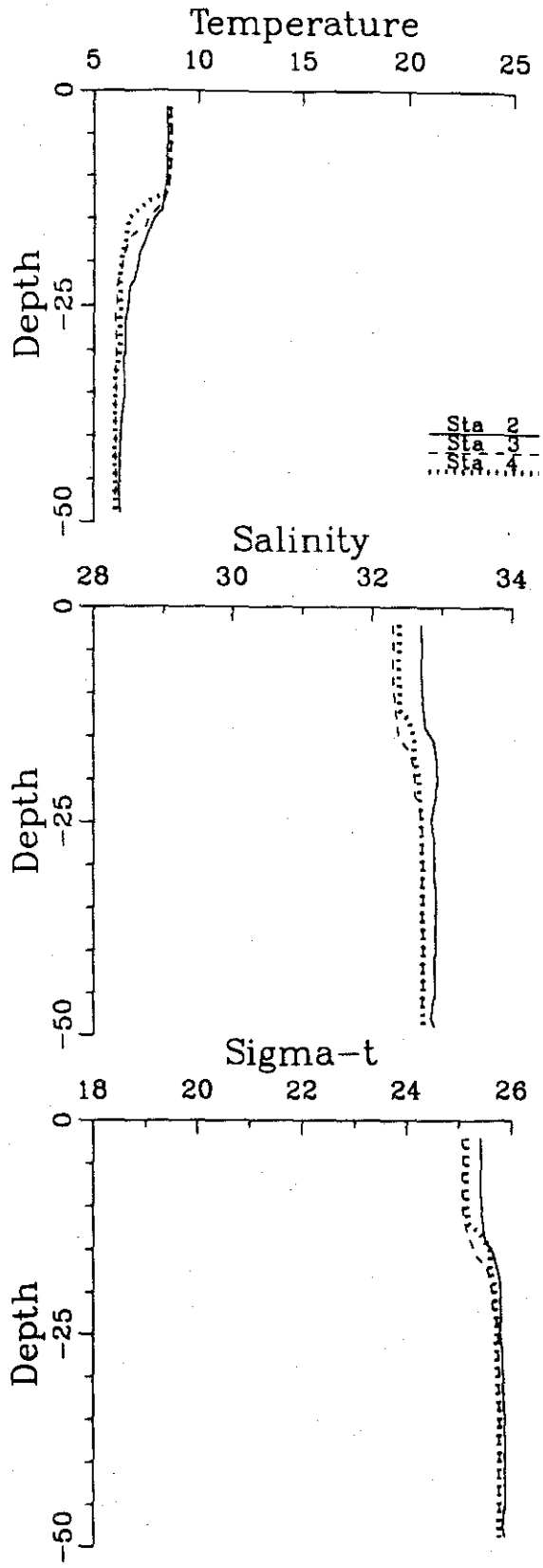
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.49	32.707	25.424	7.12
3	8.49	32.707	25.424	
5	8.49	32.707	25.424	
8	8.47	32.709	25.429	
10	8.46	32.710	25.431	
15	7.84	32.838	25.623	7.26
22	6.97	32.927	25.814	
25	6.63	32.849	25.797	
31	6.45	32.897	25.858	
36	6.46	32.925	25.879	
40	6.29	32.912	25.891	
51	6.24	32.905	25.891	
60	6.30	32.922	25.897	
67	6.13	33.170	26.114	6.67
73	6.13	33.170	26.114	6.42

Sta 3 Depth 53 M Date 5/13/87
Lat 39 45.0N Lon 73 5.1W Time 748

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.66	32.293	25.075	6.87
4	8.66	32.294	25.076	
5	8.65	32.293	25.077	
8	8.65	32.291	25.075	
11	8.54	32.309	25.106	
13	8.33	32.344	25.164	
15	7.57	32.366	25.291	6.93
17	6.78	32.548	25.541	
22	6.19	32.614	25.668	
23	6.11	32.675	25.726	
26	6.04	32.722	25.772	
28	6.04	32.726	25.775	
32	6.04	32.728	25.777	
34	6.05	32.729	25.776	
35	6.05	32.729	25.776	
42	6.05	32.732	25.779	
46	6.06	32.732	25.778	
47	6.05	32.733	25.780	6.72

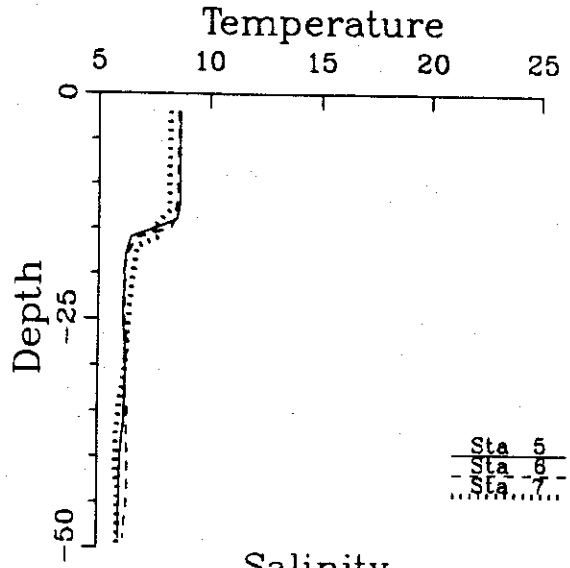
Sta 4 Depth 56 M Date 5/13/87
Lat 39 46.2N Lon 73 3.7W Time 906

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.60	32.379	25.151	
4	8.60	32.378	25.151	
5	8.61	32.377	25.148	
8	8.60	32.377	25.150	
12	8.41	32.393	25.191	
13	7.62	32.507	25.395	
15	6.62	32.587	25.593	
18	6.50	32.603	25.621	
21	6.24	32.673	25.709	
24	6.25	32.699	25.728	
26	6.26	32.711	25.736	
27	6.24	32.712	25.739	
32	6.13	32.731	25.768	
33	6.00	32.723	25.778	
36	6.00	32.731	25.784	
42	6.00	32.733	25.786	
46	6.01	32.732	25.784	
51	6.00	32.734	25.787	
56	6.00	32.734	25.787	



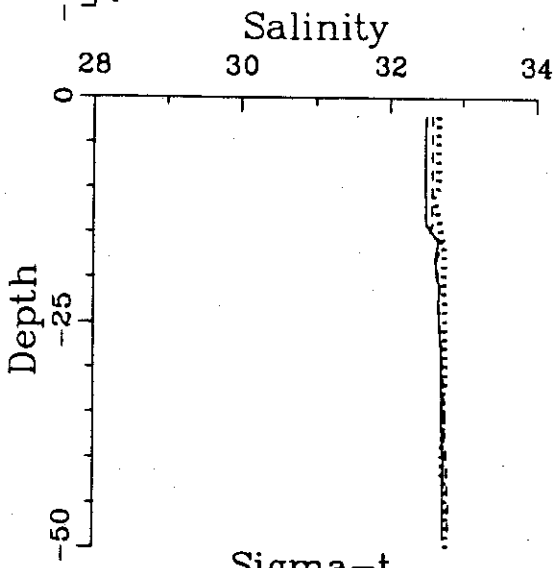
Sta 5 Depth 63 M Date 5/13/87
Lat 39 47.2N Lon 73 2.8W Time 1006

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.66	32.499	25.236	
4	8.66	32.496	25.234	
5	8.67	32.494	25.231	
7	8.67	32.495	25.232	
10	8.66	32.496	25.234	
12	8.65	32.498	25.237	
16	6.46	32.670	25.678	
18	6.23	32.632	25.678	
20	6.16	32.643	25.695	
23	6.12	32.674	25.724	
25	6.13	32.684	25.731	
28	6.21	32.707	25.739	
31	6.24	32.719	25.745	
34	6.23	32.722	25.749	
36	6.21	32.724	25.753	
40	6.03	32.747	25.793	
46	6.00	32.750	25.799	
51	5.99	32.751	25.801	
58	5.99	32.751	25.801	



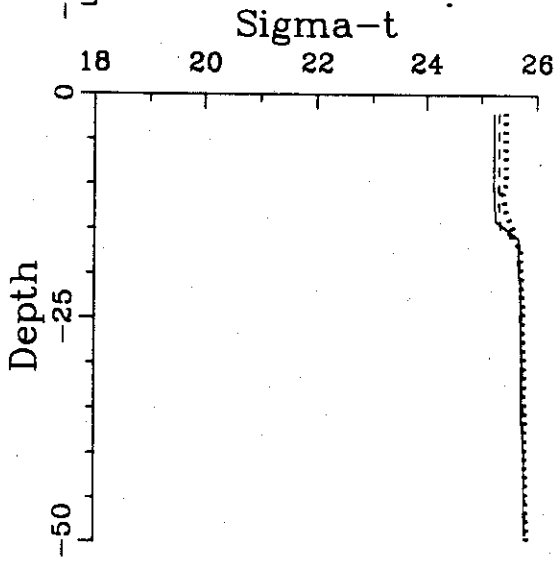
Sta 6 Depth 72 M Date 5/13/87
Lat 39 47.8N Lon 73 1.6W Time 1130

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.57	32.587	25.319	7.06
3	8.58	32.585	25.315	
5	8.57	32.586	25.318	
7	8.56	32.585	25.319	
12	8.53	32.586	25.324	
15	8.23	32.550	25.340	7.20
20	6.19	32.664	25.708	
25	6.20	32.693	25.729	
30	6.26	32.728	25.749	
35	6.35	32.770	25.771	
40	6.38	32.794	25.786	
51	6.06	32.803	25.834	
60	6.02	32.800	25.836	
67	5.99	32.798	25.776	6.61
72	5.95	32.798	25.843	6.65



Sta 7 Depth 76 M Date 5/13/87
Lat 39 49.6N Lon 73 1.5W Time 1254

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.21	32.673	25.440	7.22
4	8.20	32.671	25.440	
6	8.19	32.669	25.439	
7	8.18	32.673	25.444	
10	8.17	32.674	25.446	
15	7.43	32.708	25.579	7.37
22	6.46	32.753	25.744	
26	6.36	32.763	25.764	
32	6.14	32.767	25.795	
36	5.94	32.751	25.807	
40	5.84	32.731	25.804	
50	5.91	32.789	25.841	
60	5.95	32.808	25.851	
70	5.96	32.813	25.854	
72	5.97	32.814	25.784	6.58
76	5.98	32.814	25.786	6.44



Sta 8 Depth 72 M Date 5/13/87
Lat 39 50.5N Lon 73 0.3W Time 1400

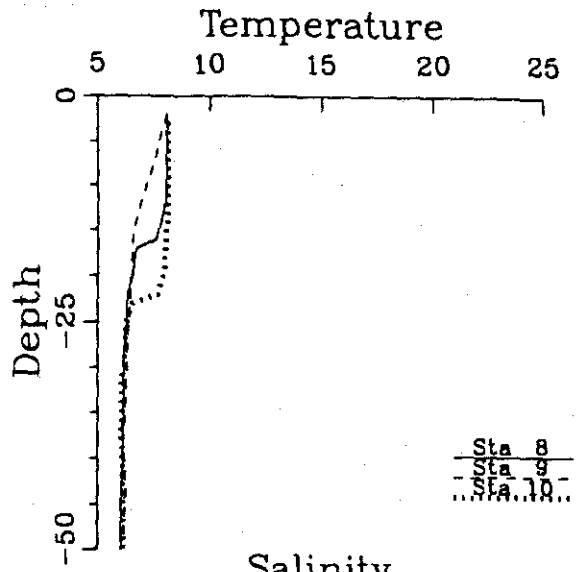
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.09	32.701	25.479	
3	8.10	32.701	25.478	
5	8.10	32.700	25.477	
7	8.09	32.704	25.481	
10	8.08	32.700	25.480	
16	7.63	32.736	25.573	
20	6.57	32.779	25.750	
25	6.31	32.811	25.809	
30	6.17	32.809	25.825	
35	6.16	32.808	25.825	
42	6.11	32.840	25.856	
50	6.03	32.831	25.859	
60	6.15	32.861	25.868	
67	6.20	32.875	25.873	

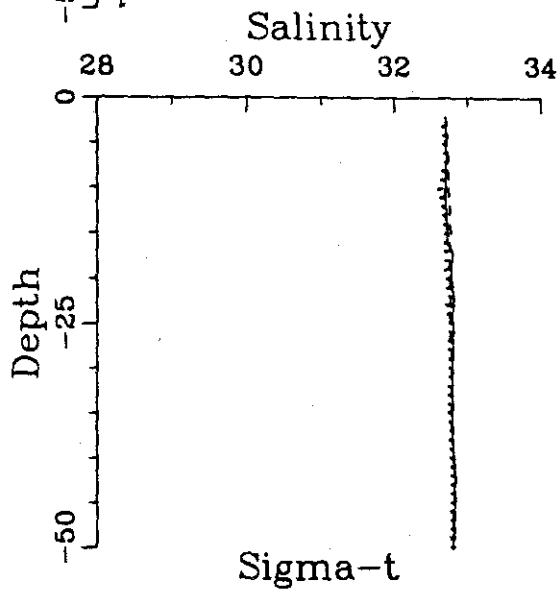
Sta 9 Depth 76 M Date 5/13/87
Lat 39 51.6N Lon 72 59.4W Time 1512

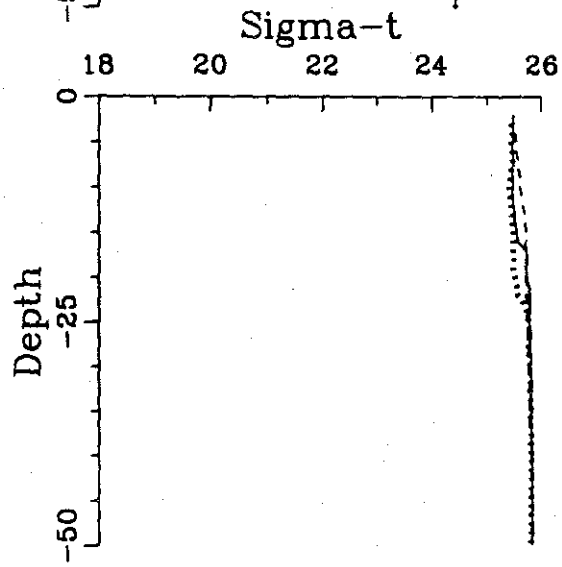
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.12	32.702	25.476	7.15
15	6.60	32.773	25.741	7.33
20	6.52	32.758	25.740	
22	6.48	32.764	25.750	
24	6.43	32.770	25.761	
25	6.39	32.764	25.761	
27	6.34	32.773	25.775	
29	6.32	32.789	25.790	
31	6.28	32.805	25.808	
36	6.19	32.790	25.807	
40	6.20	32.824	25.833	
52	6.23	32.860	25.857	
60	6.27	32.869	25.859	
69	6.36	32.895	25.776	6.76
76	6.36	32.895	25.868	6.75

Sta 10 Depth 56 M Date 5/13/87
Lat 39 52.4N Lon 72 58.6W Time 1630

Depth	Temp	Salinity	Sigma-t	Oxygen
3	8.16	32.669	25.444	
6	8.16	32.699	25.467	
7	8.16	32.705	25.472	
10	8.16	32.628	25.412	
12	8.15	32.675	25.450	
13	8.15	32.696	25.466	
15	8.08	32.713	25.490	
17	8.03	32.711	25.496	
22	7.69	32.765	25.587	
23	6.58	32.724	25.705	
25	6.26	32.780	25.790	
28	6.21	32.768	25.787	
30	6.19	32.783	25.802	
33	6.06	32.785	25.819	
36	6.06	32.788	25.822	
40	6.10	32.801	25.827	
45	6.13	32.819	25.837	
50	6.13	32.821	25.839	







Sta 11 Depth 55 M Date 5/13/87
Lat 39 52.5N Lon 72 58.1W Time 1706

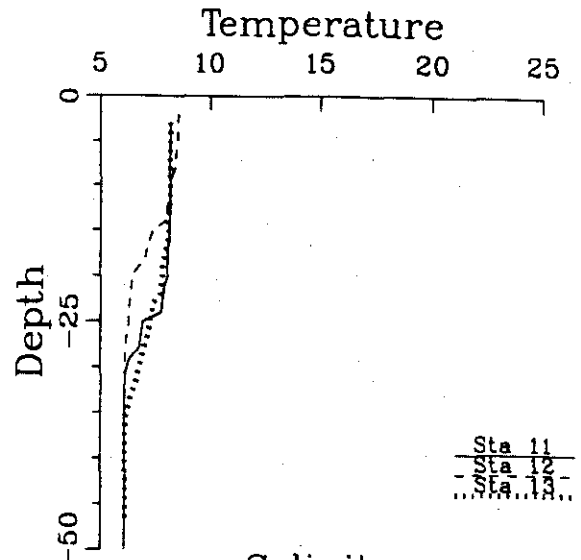
Depth	Temp	Salinity	Sigma-t	Oxygen
3	8.20	32.721	25.479	
6	8.20	32.719	25.477	
8	8.18	32.716	25.478	
9	8.16	32.726	25.488	
12	8.18	32.719	25.480	
13	8.18	32.705	25.469	
15	8.14	32.725	25.491	7.30
17	8.08	32.707	25.485	
20	8.05	32.701	25.485	
24	7.77	32.580	25.431	
25	6.93	32.757	25.685	
28	6.76	32.665	25.636	
31	6.09	32.797	25.825	
33	6.08	32.788	25.819	
35	6.07	32.803	25.832	
40	6.10	32.810	25.834	
45	6.10	32.813	25.836	
50	6.10	32.814	25.837	
51	6.10	32.814	25.837	6.70
55	6.10	32.814	25.837	6.86

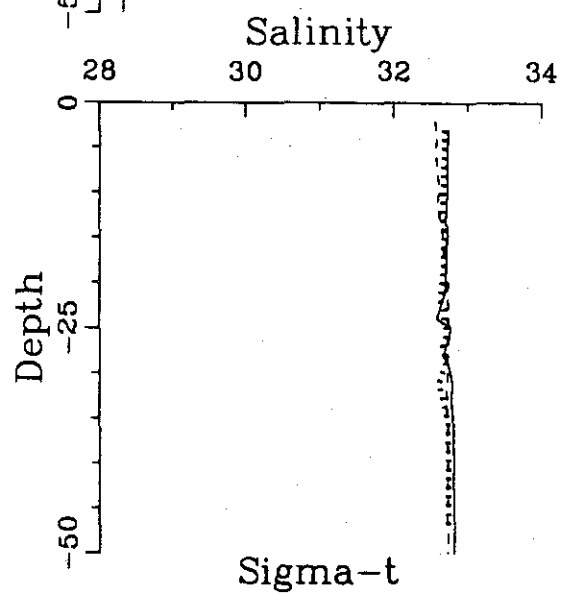
Sta 12 Depth 50 M Date 5/13/87
Lat 39 59.5N Lon 73 8.6W Time 1918

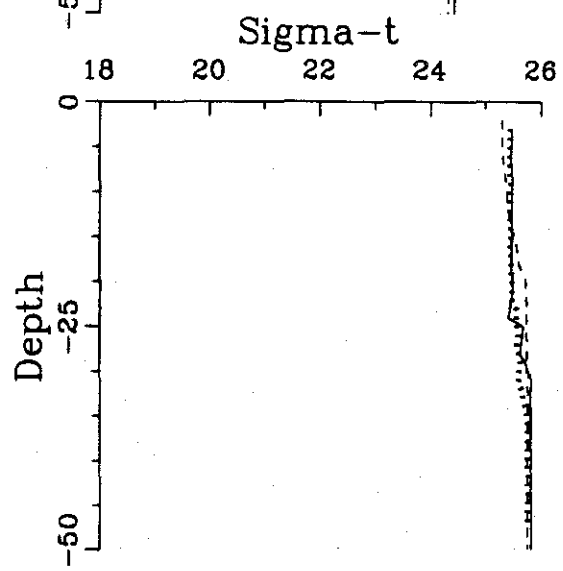
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.58	32.561	25.297	7.04
3	8.54	32.570	25.310	
5	8.53	32.564	25.307	
8	8.43	32.592	25.344	
10	8.20	32.610	25.392	
14	7.93	32.645	25.459	
15	7.37	32.659	25.549	7.27
18	7.05	32.683	25.611	
20	6.47	32.734	25.728	
23	6.32	32.734	25.747	
26	6.26	32.729	25.750	
27	6.16	32.720	25.756	
30	6.12	32.727	25.766	
34	6.09	32.722	25.766	
35	6.09	32.723	25.767	
41	6.09	32.724	25.768	
46	6.09	32.723	25.767	6.95
50	6.09	32.723	25.767	6.93

Sta 13 Depth 53 M Date 5/13/87
Lat 39 57.9N Lon 73 9.4W Time 2012

Depth	Temp	Salinity	Sigma-t	Oxygen
3	8.20	32.674	25.442	
5	8.20	32.673	25.441	
8	8.20	32.673	25.441	
9	8.18	32.669	25.441	
12	8.15	32.656	25.435	
14	8.09	32.678	25.461	
16	8.10	32.667	25.451	
17	8.00	32.663	25.463	
22	7.69	32.625	25.477	
23	7.41	32.683	25.562	
26	7.20	32.677	25.586	
27	7.11	32.647	25.575	
31	6.68	32.608	25.601	
34	6.27	32.705	25.730	
36	6.13	32.731	25.768	
41	6.11	32.733	25.772	
45	6.11	32.734	25.773	
47	6.11	32.734	25.773	

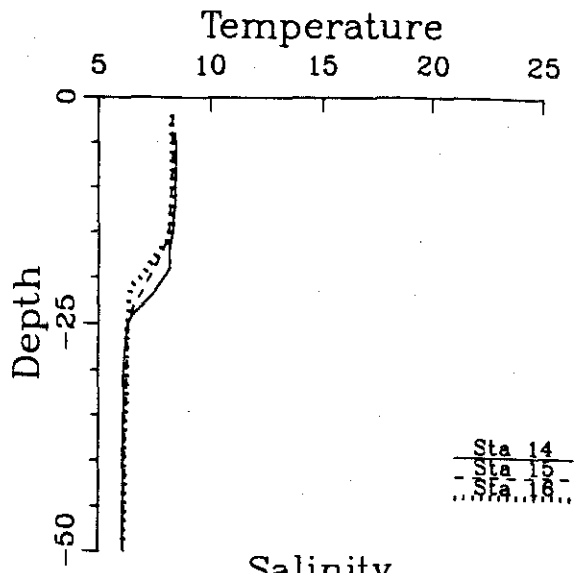






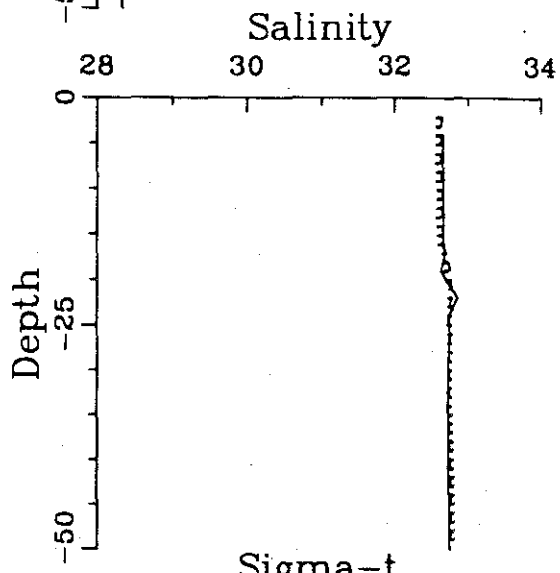
Sta 14 Depth 72 M Date 5/13/87
Lat 39 56.5N Lon 73 10.4W Time 2054

Depth	Temp	Salinity	Sigma-t	Oxygen
4	8.42	32.674	25.409	
5	8.42	32.674	25.409	
8	8.42	32.673	25.408	
9	8.42	32.674	25.409	
12	8.42	32.674	25.409	
15	8.28	32.675	25.431	7.37
22	7.39	32.869	25.711	
25	6.27	32.757	25.771	
31	6.13	32.742	25.777	
35	6.11	32.741	25.778	
42	6.09	32.746	25.785	
50	6.10	32.761	25.795	
60	6.10	32.770	25.803	
66	6.10	32.772	25.804	6.72
72	6.10	32.772	25.804	7.28



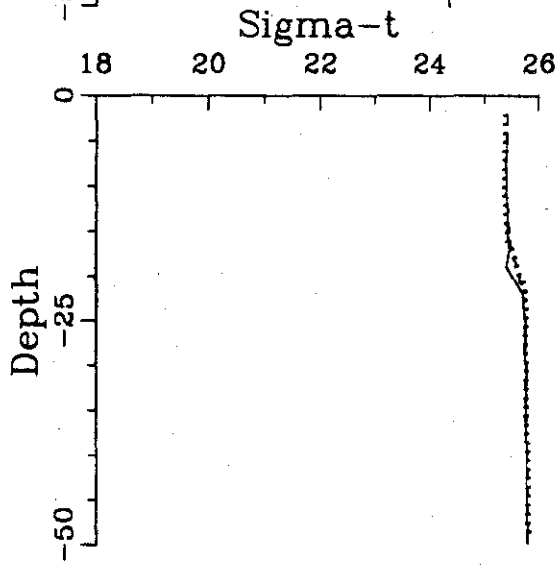
Sta 15 Depth 73 M Date 5/13/87
Lat 39 55.3N Lon 73 11.6W Time 2148

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.30	32.653	25.411	7.40
4	8.28	32.648	25.410	
5	8.28	32.649	25.410	
8	8.28	32.649	25.410	
11	8.26	32.655	25.418	
15	8.09	32.679	25.462	7.33
22	6.87	32.788	25.718	
25	6.34	32.751	25.757	
30	6.29	32.752	25.765	
35	6.16	32.742	25.773	
40	6.17	32.763	25.788	
50	6.13	32.779	25.806	
60	6.15	32.789	25.811	
67	6.15	32.792	25.814	6.76
73	6.15	32.792	25.814	6.83



Sta 16 Depth 65 M Date 5/13/87
Lat 39 54.5N Lon 73 12.4W Time 2342

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.27	32.607	25.379	
4	8.26	32.607	25.381	
5	8.26	32.605	25.379	
8	8.26	32.607	25.381	
11	8.26	32.609	25.382	
16	8.05	32.638	25.436	
20	6.90	32.727	25.666	
25	6.28	32.758	25.771	
32	6.27	32.764	25.777	
35	6.22	32.761	25.781	
40	6.18	32.789	25.808	
51	6.16	32.795	25.815	
60	6.16	32.800	25.819	



Sta 17 Depth 55 M Date 5/14/87
Lat 39 53.5N Lon 73 13.5W Time 36

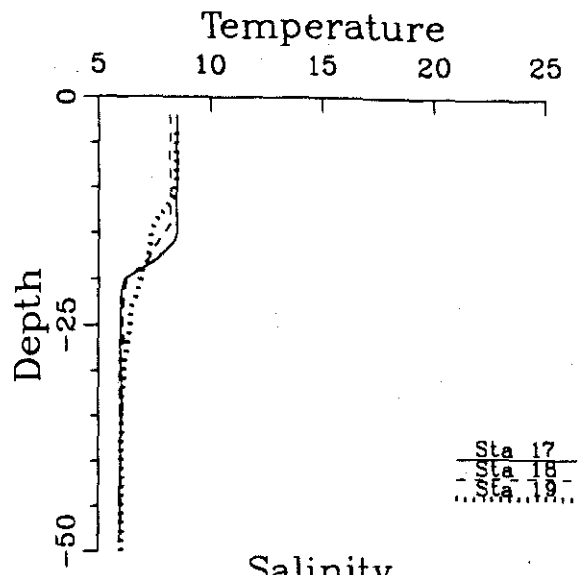
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.50	32.587	25.329	7.05
4	8.50	32.588	25.330	
5	8.50	32.587	25.329	
7	8.51	32.586	25.327	
11	8.50	32.586	25.328	
14	8.50	32.586	25.328	
15	8.50	32.570	25.316	7.14
18	7.55	32.693	25.550	
20	6.17	32.712	25.748	
24	5.98	32.689	25.754	
26	5.99	32.691	25.754	
27	5.98	32.703	25.765	
30	5.98	32.701	25.763	
34	6.06	32.745	25.788	
36	6.00	32.751	25.800	
40	5.98	32.765	25.813	
46	5.97	32.766	25.815	
49	5.97	32.766	25.815	6.61
55	5.97	32.766	25.815	6.56

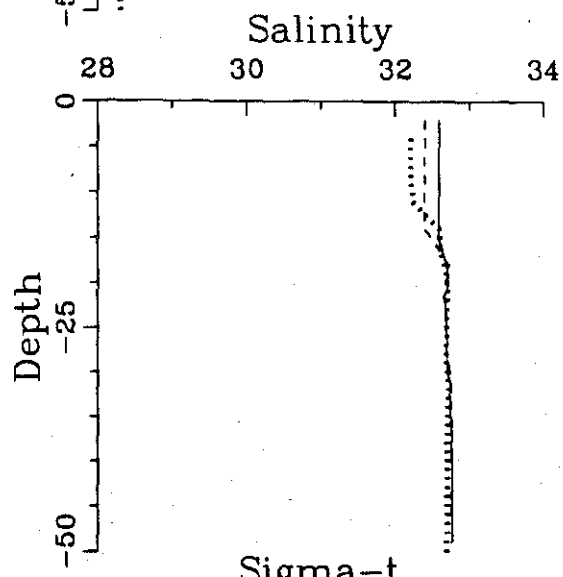
Sta 18 Depth 52 M Date 5/14/87
Lat 39 52.8N Lon 73 14.5W Time 136

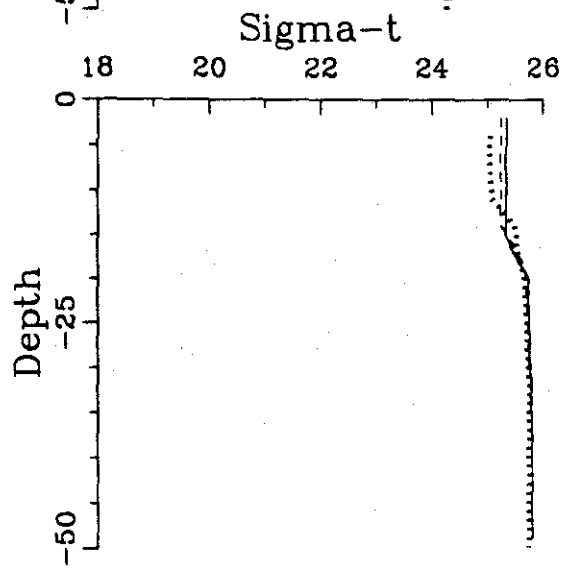
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.18	32.395	25.226	6.99
3	8.19	32.396	25.226	
6	8.18	32.396	25.227	
7	8.18	32.395	25.226	
12	8.19	32.395	25.225	
14	8.19	32.397	25.227	
15	7.93	32.498	25.343	6.97
18	7.19	32.721	25.622	
20	6.24	32.676	25.711	
23	6.10	32.670	25.724	
25	6.06	32.679	25.736	
27	6.13	32.693	25.738	
31	5.94	32.741	25.799	
34	5.97	32.758	25.809	
35	5.98	32.761	25.810	
41	5.98	32.764	25.813	
45	5.98	32.763	25.812	
47	5.97	32.763	25.813	6.65
52	5.97	32.763	25.813	6.60

Sta 19 Depth 50 M Date 5/14/87
Lat 39 57.9N Lon 73 25.5W Time 342

Depth	Temp	Salinity	Sigma-t	Oxygen
4	8.46	32.211	25.041	
5	8.46	32.212	25.042	
8	8.46	32.212	25.042	
9	8.46	32.213	25.043	
11	8.35	32.246	25.085	
14	7.48	32.588	25.478	
15	7.30	32.598	25.510	7.31
18	7.18	32.663	25.578	
22	6.64	32.713	25.689	
23	6.46	32.698	25.700	
25	6.38	32.691	25.705	
28	6.24	32.690	25.722	
31	6.12	32.704	25.748	
33	6.03	32.711	25.765	
36	6.01	32.701	25.759	
42	6.01	32.701	25.759	
45	6.01	32.701	25.759	6.70
50	6.01	32.701	25.759	6.62







Sta 20 Depth 61 M Date 5/14/87
Lat 39 59.9N Lon 73 24.1W Time 448

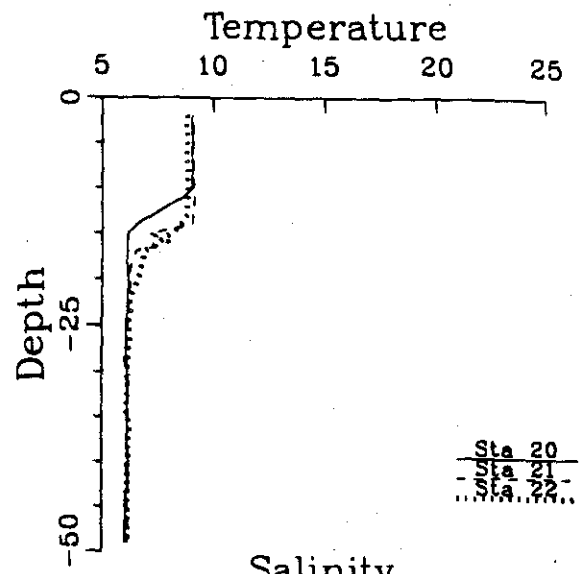
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.06	32.252	24.982	
4	9.06	32.252	24.982	
5	9.07	32.247	24.976	
8	9.06	32.253	24.983	
10	9.05	32.255	24.986	
14	6.57	32.439	25.483	
15	6.17	32.421	25.519	
18	6.10	32.501	25.591	
22	6.16	32.575	25.642	
23	6.12	32.574	25.646	
26	6.08	32.571	25.648	
28	6.10	32.574	25.648	
30	6.13	32.579	25.648	
32	6.15	32.607	25.668	
36	6.14	32.617	25.677	
41	6.18	32.637	25.688	
45	6.04	32.708	25.761	
51	6.02	32.711	25.766	
55	6.02	32.711	25.766	

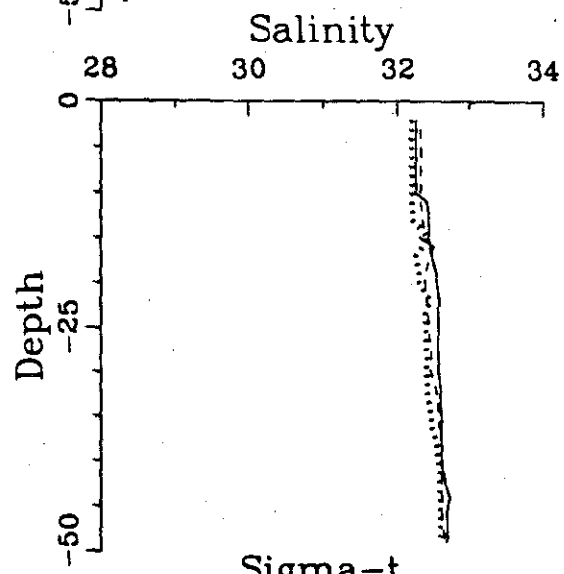
Sta 21 Depth 67 M Date 5/14/87
Lat 39 59.9N Lon 73 23.5W Time 524

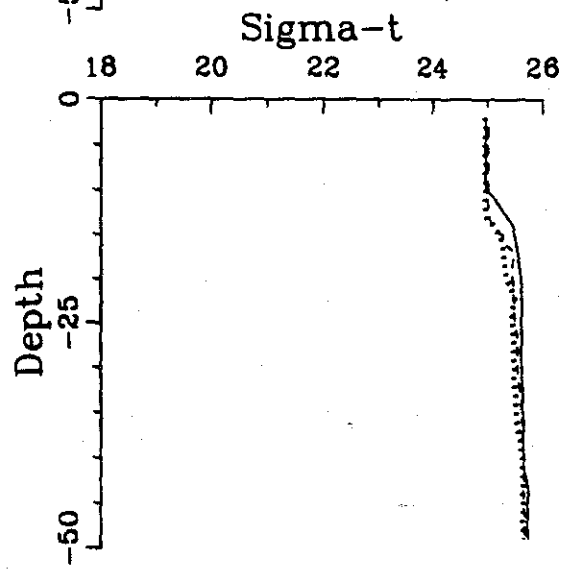
Depth	Temp	Salinity	Sigma-t	Oxygen
3	9.13	32.316	25.021	
6	9.13	32.317	25.022	
7	9.13	32.316	25.021	
9	9.13	32.316	25.021	
11	9.14	32.316	25.019	
15	7.13	32.298	25.298	6.95
22	6.21	32.395	25.494	
26	6.12	32.453	25.550	
30	6.06	32.468	25.570	
36	6.13	32.592	25.659	
40	6.14	32.628	25.686	
52	6.12	32.665	25.717	
60	6.08	32.684	25.737	
61	6.07	32.685	25.739	6.81
67	6.07	32.685	25.739	6.80

Sta 22 Depth 56 M Date 5/14/87
Lat 40 1.0N Lon 73 22.3W Time 712

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.82	32.188	24.969	
3	8.81	32.187	24.970	
6	8.82	32.185	24.966	
7	8.82	32.189	24.970	
11	8.84	32.199	24.974	
13	8.83	32.208	24.983	
15	6.15	32.423	25.253	
17	6.90	32.253	25.293	
20	6.62	32.297	25.365	
22	6.28	32.447	25.526	
26	6.23	32.385	25.483	
28	6.17	32.401	25.503	
32	6.14	32.411	25.515	
34	6.06	32.449	25.555	
36	6.24	32.481	25.558	
40	6.16	32.579	25.645	
45	6.13	32.616	25.678	
52	6.13	32.618	25.679	







Sta 23 Depth 50 M Date 5/14/87
Lat 40 1.9N Lon 73 21.2W Time 748

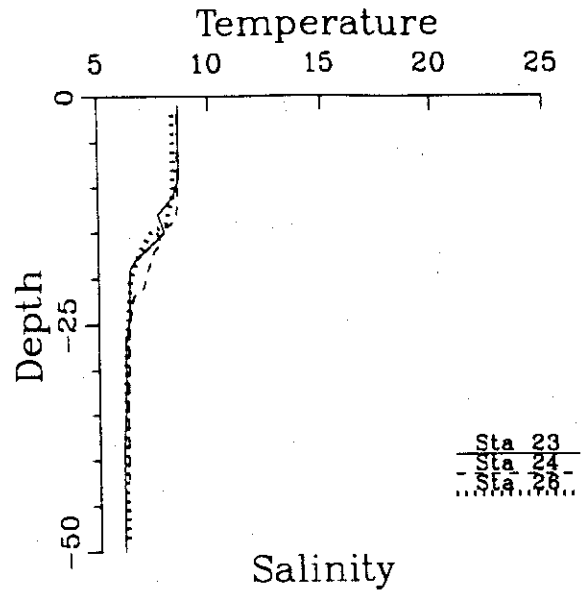
Depth	Temp	Salinity	Sigma-t	Oxygen
1	8.65	32.015	24.860	6.78
3	8.65	32.010	24.856	
6	8.65	32.009	24.855	
8	8.65	32.008	24.854	
11	8.40	32.018	24.899	
13	7.68	32.104	25.070	
15	7.97	32.113	25.036	6.97
18	6.66	32.101	25.205	
21	6.39	32.172	25.295	
24	6.39	32.207	25.323	
26	6.29	32.262	25.379	
27	6.22	32.281	25.403	
31	6.21	32.361	25.467	
34	6.20	32.392	25.492	
36	6.16	32.462	25.553	
42	6.11	32.575	25.648	
44	6.11	32.577	25.649	6.80
50	6.11	32.577	25.649	6.86

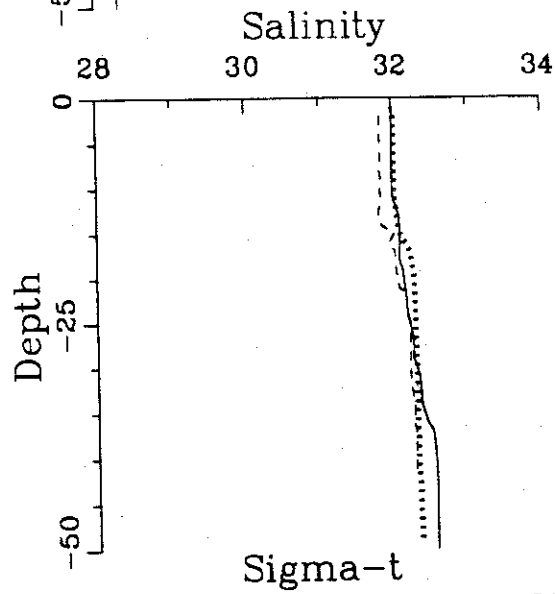
Sta 24 Depth 42 M Date 5/14/87
Lat 40 7.5N Lon 73 31.4W Time 942

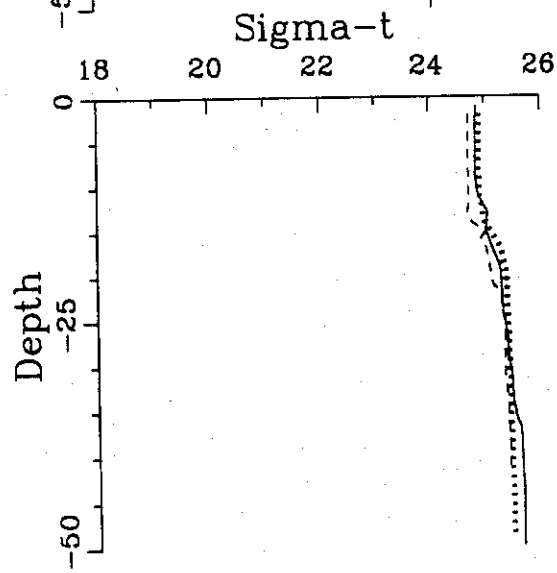
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.62	31.835	24.723	
3	8.62	31.835	24.723	
6	8.62	31.835	24.723	
7	8.61	31.835	24.725	
10	8.60	31.835	24.726	
13	8.54	31.809	24.715	
15	7.63	32.041	25.028	7.06
17	7.50	32.041	25.046	
21	7.03	32.097	25.154	
22	6.55	32.196	25.294	
25	6.38	32.240	25.350	
27	6.37	32.242	25.353	
31	6.35	32.245	25.358	
32	6.33	32.260	25.372	
36	6.31	32.295	25.402	
37	6.30	32.307	25.413	6.58
42	6.30	32.307	25.413	6.48

Sta 26 Depth 65 M Date 5/14/87
Lat 40 5.1N Lon 73 33.0W Time 1124

Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.39	32.035	24.914	6.89
3	8.39	32.034	24.913	
6	8.39	32.036	24.915	
8	8.40	32.037	24.914	
11	8.35	32.043	24.926	
15	7.34	32.115	25.126	6.97
20	6.42	32.299	25.392	
26	6.26	32.313	25.423	
31	6.22	32.331	25.442	
36	6.21	32.328	25.441	
40	6.18	32.337	25.452	
52	6.28	32.407	25.494	
59	6.24	32.461	25.542	6.68
65	6.24	32.461	25.542	6.54







Sta 27 Depth 45 M Date 5/14/87
Lat 40 5.1N Lon 73 34.8W Time 1230

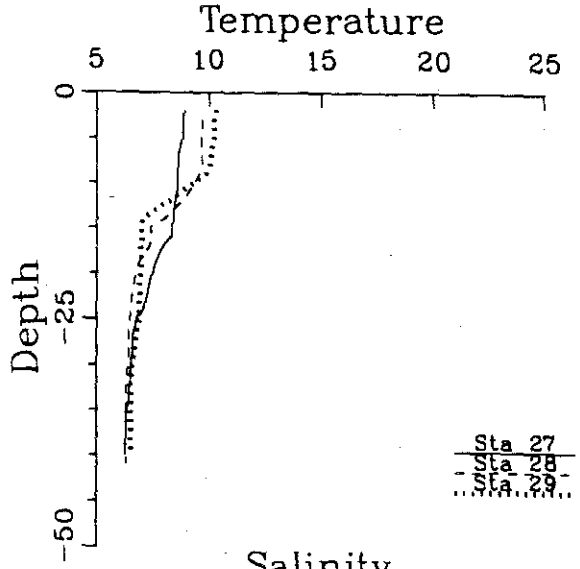
Depth	Temp	Salinity	Sigma-t	Oxygen
2	8.91	32.029	24.831	
3	8.87	32.030	24.838	
5	8.83	32.032	24.845	
7	8.64	32.052	24.890	
10	8.61	32.056	24.898	
12	8.52	32.065	24.918	
16	8.33	32.081	24.959	
17	7.97	32.131	25.050	
21	7.36	32.225	25.210	
24	7.08	32.270	25.283	
25	6.76	32.344	25.383	
27	6.61	32.352	25.409	
30	6.56	32.355	25.418	
34	6.45	32.370	25.444	
35	6.34	32.395	25.477	
40	6.29	32.430	25.511	

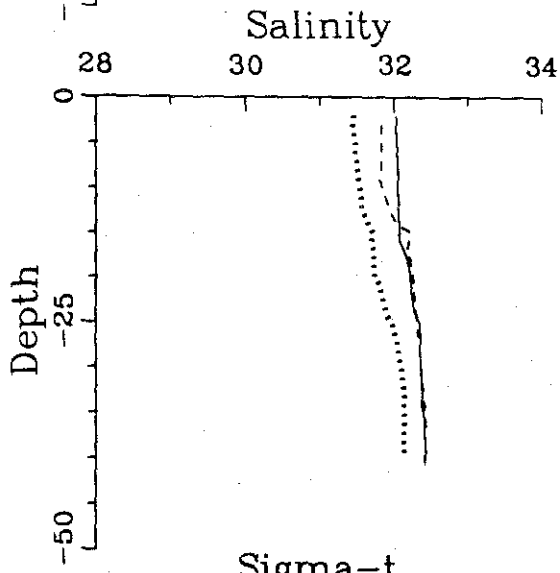
Sta 28 Depth 41 M Date 5/14/87
Lat 40 4.1N Lon 73 35.9W Time 1330

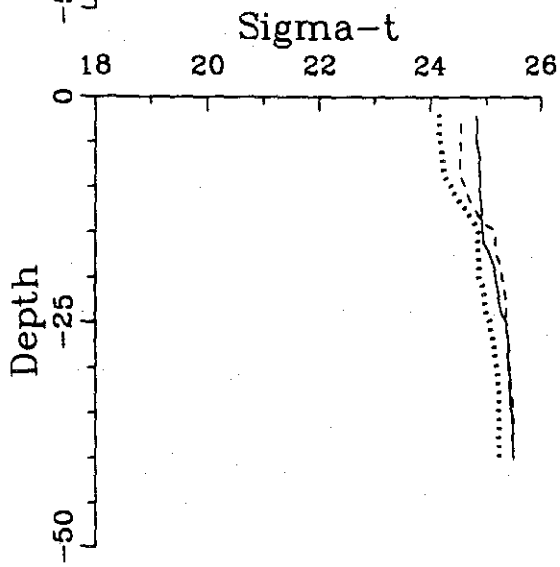
Depth	Temp	Salinity	Sigma-t	Oxygen
3	9.69	31.833	24.555	
6	9.67	31.826	24.553	
8	9.65	31.828	24.558	
9	9.58	31.816	24.560	
12	8.85	31.923	24.757	
14	8.07	32.035	24.961	
15	7.40	32.218	25.199	7.07
17	7.33	32.174	25.174	
22	6.59	32.278	25.353	
23	6.52	32.294	25.375	
26	6.46	32.310	25.395	
27	6.44	32.338	25.420	
30	6.41	32.355	25.437	
33	6.33	32.394	25.478	
35	6.30	32.419	25.501	
37	6.30	32.425	25.506	6.60
41	6.30	32.425	25.506	6.58

Sta 29 Depth 40 M Date 5/14/87
Lat 40 8.5N Lon 73 43.6W Time 1524

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.28	31.442	24.154	6.89
3	10.22	31.441	24.164	
5	10.19	31.463	24.186	
8	10.00	31.503	24.248	
9	9.85	31.519	24.285	
12	8.24	31.565	24.568	6.97
14	7.05	31.653	24.802	
15	7.00	31.715	24.858	
16	7.00	31.705	24.850	
17	6.97	31.724	24.869	
20	6.98	31.739	24.879	
21	6.90	31.810	24.945	
24	6.91	31.892	25.009	6.68
25	6.90	31.973	25.073	6.54
28	6.72	32.053	25.160	
30	6.61	32.088	25.201	
32	6.54	32.127	25.241	
33	6.53	32.135	25.249	
40	6.53	32.135	25.249	







Sta 30 Depth 49 M Date 5/14/87
Lat 40 9.9N Lon 73 42.9W Time 1618

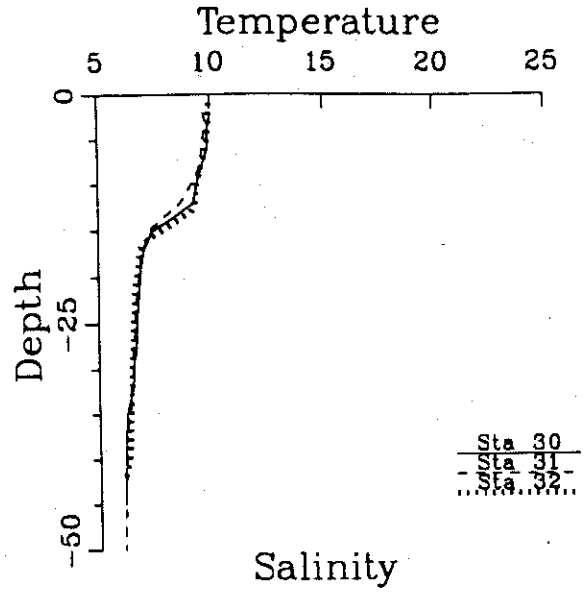
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.04	31.163	23.977	
4	9.90	31.196	24.026	
6	9.88	31.203	24.034	
7	9.76	31.269	24.105	
12	9.23	31.341	24.245	
14	8.11	31.301	24.381	
15	7.42	31.407	24.560	
17	7.05	31.561	24.730	
22	6.82	31.810	24.956	
23	6.75	31.972	25.092	
26	6.70	32.066	25.173	
28	6.67	32.077	25.185	
32	6.54	32.141	25.252	
34	6.32	32.303	25.407	
35	6.24	32.394	25.489	
40	6.15	32.471	25.561	
45	6.14	32.488	25.575	

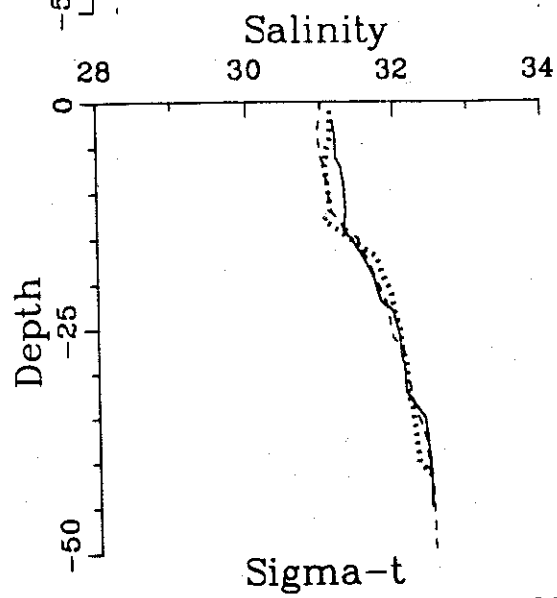
Sta 31 Depth 66 M Date 5/14/87
Lat 40 10.4N Lon 73 42.5W Time 1712

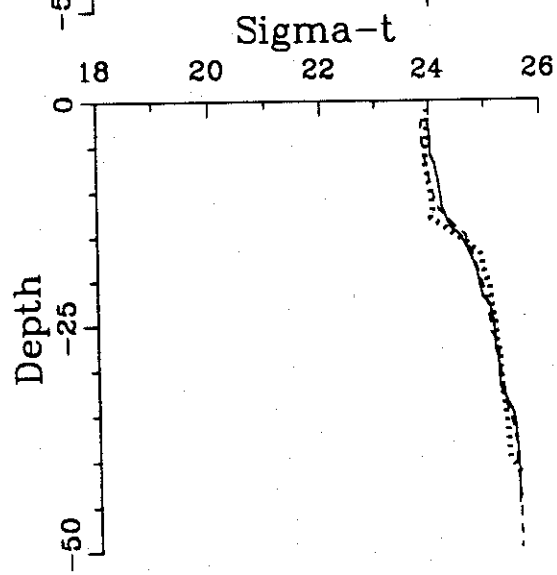
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.72	30.984	23.890	6.91
3	9.82	30.964	23.858	
6	9.64	31.001	23.916	
7	9.60	31.055	23.964	
12	8.66	31.137	24.172	
15	7.25	31.513	24.666	7.03
20	6.83	31.769	24.922	
26	6.63	31.970	25.106	
30	6.54	32.132	25.245	
36	6.28	32.369	25.464	
40	6.18	32.443	25.535	
50	6.11	32.526	25.609	
60	6.10	32.541	25.622	6.41
66	6.10	32.541	25.622	6.32

Sta 32 Depth 47 M Date 5/14/87
Lat 40 10.8N Lon 73 41.9W Time 1718

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.95	31.127	23.964	
4	9.94	31.128	23.966	
5	9.88	31.087	23.944	
7	9.72	31.052	23.942	
10	9.41	31.099	24.028	
12	9.32	31.124	24.062	
16	7.19	31.552	24.705	
17	6.85	31.759	24.912	
21	6.64	31.951	25.090	
23	6.60	31.995	25.130	
25	6.55	32.066	25.192	
27	6.53	32.091	25.214	
32	6.47	32.164	25.279	
34	6.43	32.222	25.330	
36	6.39	32.260	25.365	
40	6.34	32.313	25.413	
42	6.11	32.537	25.618	







Sta 33 Depth 39 M Date 5/14/87
Lat 40 11.3N Lon 73 41.5W Time 1748

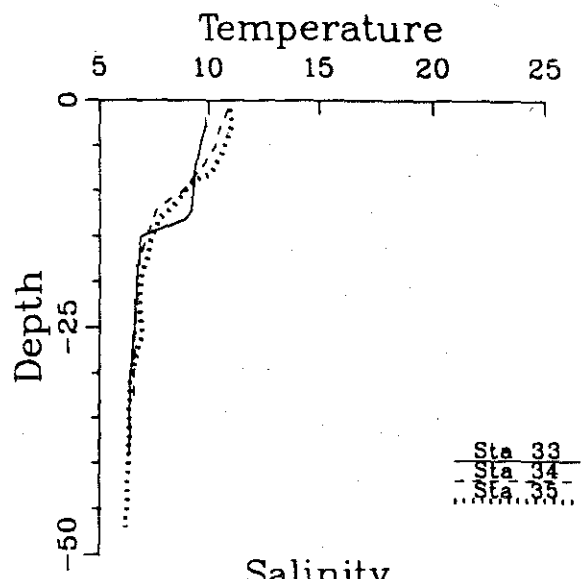
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.85	31.117	23.972	
3	9.87	31.120	23.971	
5	9.60	31.103	24.001	
8	9.34	31.090	24.032	
9	9.32	31.141	24.075	
12	9.24	31.170	24.110	
13	8.97	31.236	24.203	
15	6.91	31.713	24.868	
18	6.82	31.750	24.909	
19	6.77	31.808	24.961	
21	6.70	31.896	25.039	
24	6.65	31.963	25.098	
26	6.60	32.016	25.146	
27	6.56	32.068	25.192	
30	6.45	32.193	25.304	
32	6.43	32.211	25.321	
34	6.43	32.214	25.323	
39	6.43	32.214	25.323	

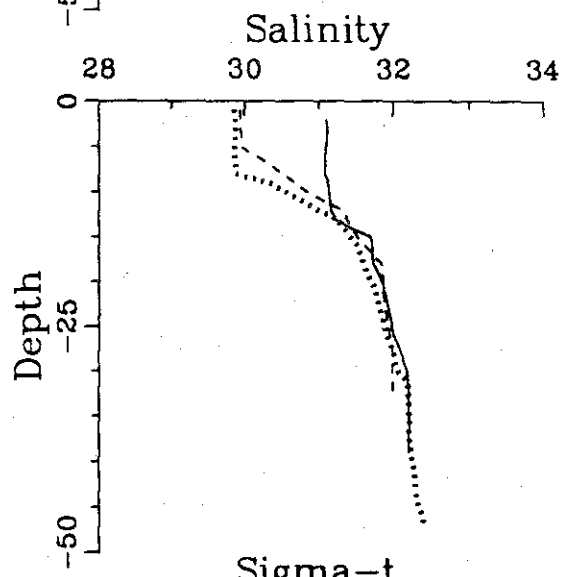
Sta 34 Depth 33 M Date 5/14/87
Lat 40 14.0N Lon 73 43.8W Time 1948

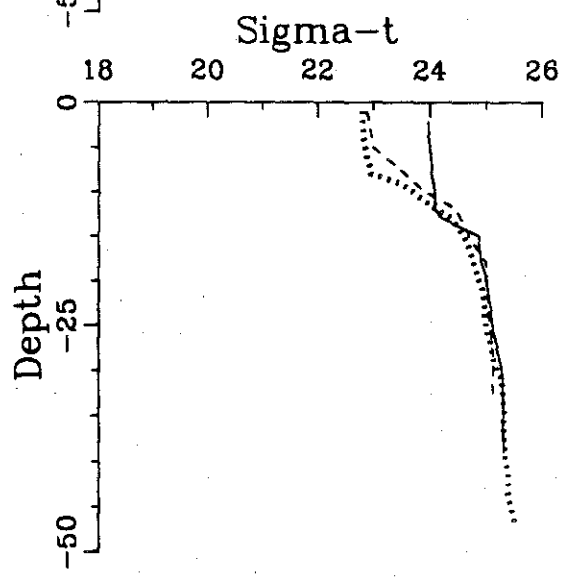
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.89	29.948	22.892	6.91
4	10.39	29.955	22.981	
5	10.32	29.973	23.007	
7	9.80	30.360	23.391	
10	8.79	30.848	23.927	
12	7.63	31.331	24.472	7.03
14	7.32	31.469	24.622	
15	7.21	31.535	24.689	
18	6.76	31.858	25.001	
19	6.74	31.867	25.011	
22	6.72	31.888	25.030	
23	6.71	31.900	25.041	
25	6.67	31.945	25.081	6.41
28	6.63	32.005	25.134	6.32
33	6.63	32.005	25.134	

Sta 35 Depth 53 M Date 5/14/87
Lat 40 13.9N Lon 73 45.4W Time 2030

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.00	29.874	22.816	
3	11.05	29.880	22.812	
6	10.58	29.871	22.884	
8	10.14	29.889	22.971	
12	8.25	30.994	24.121	
13	7.75	31.254	24.395	
16	7.28	31.536	24.680	
17	7.26	31.588	24.723	
21	6.85	31.780	24.928	
24	6.92	31.859	24.981	
26	7.00	31.927	25.024	
27	6.81	31.970	25.083	
30	6.53	32.075	25.201	
33	6.40	32.216	25.329	
36	6.39	32.220	25.333	
40	6.36	32.260	25.369	
46	6.23	32.401	25.496	
47	6.21	32.422	25.515	







Sta 36 Depth 56 M Date 5/14/87
Lat 40 13.5N Lon 73 46.2W Time 2112

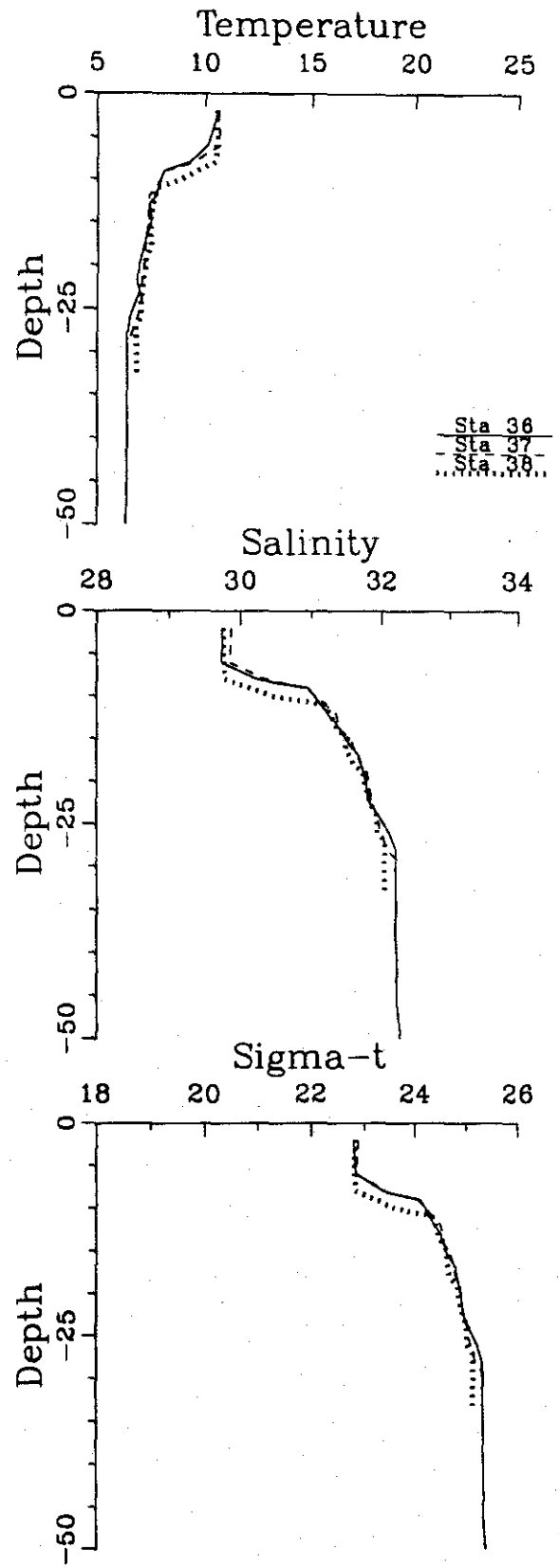
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.59	29.742	22.783	7.15
3	10.47	29.744	22.804	
6	10.10	29.735	22.857	
8	9.26	30.233	23.377	
12	7.64	31.225	24.387	
13	7.38	31.338	24.511	
15	7.47	31.476	24.607	7.15
17	7.21	31.678	24.801	
20	6.91	31.771	24.914	
22	6.85	31.796	24.941	
26	6.51	32.112	25.233	
28	6.39	32.211	25.326	
30	6.38	32.214	25.330	
34	6.38	32.216	25.331	
35	6.38	32.217	25.332	
41	6.38	32.231	25.343	
46	6.37	32.238	25.350	
50	6.34	32.281	25.388	5.62
56	6.34	32.281	25.388	6.11

Sta 37 Depth 41 M Date 5/15/87
Lat 40 13.0N Lon 73 46.6W Time 0

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.63	29.869	22.875	6.91
3	10.62	29.871	22.878	
6	10.67	29.853	22.856	
8	9.45	30.334	23.426	
9	8.18	30.913	24.067	
12	7.37	31.347	24.520	7.03
14	7.31	31.415	24.581	
15	7.35	31.549	24.681	
18	7.18	31.699	24.821	
19	7.17	31.795	24.898	
22	7.07	31.841	24.947	
24	7.04	31.936	25.026	
25	6.98	31.958	25.051	6.41
28	6.61	32.073	25.190	6.32
29	6.41	32.195	25.311	
31	6.38	32.217	25.332	
34	6.39	32.222	25.335	
36	6.39	32.228	25.340	

Sta 38 Depth 33 M Date 5/15/87
Lat 40 12.5N Lon 73 48.0W Time 54

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.54	29.766	22.810	
4	10.54	29.767	22.810	
5	10.54	29.766	22.810	
8	10.43	29.775	22.835	
10	8.87	30.467	23.618	
11	7.75	31.203	24.355	
14	7.44	31.366	24.525	
15	7.47	31.509	24.633	
16	7.43	31.478	24.614	
18	7.48	31.592	24.697	
19	7.24	31.723	24.832	
22	7.13	31.803	24.910	
24	7.02	31.926	25.021	
26	7.02	31.933	25.026	
27	6.82	32.042	25.138	
33	6.82	32.042	25.138	



Sta 39 Depth 61 M Date 5/15/87
Lat 40 17.4N Lon 73 47.2W Time 218

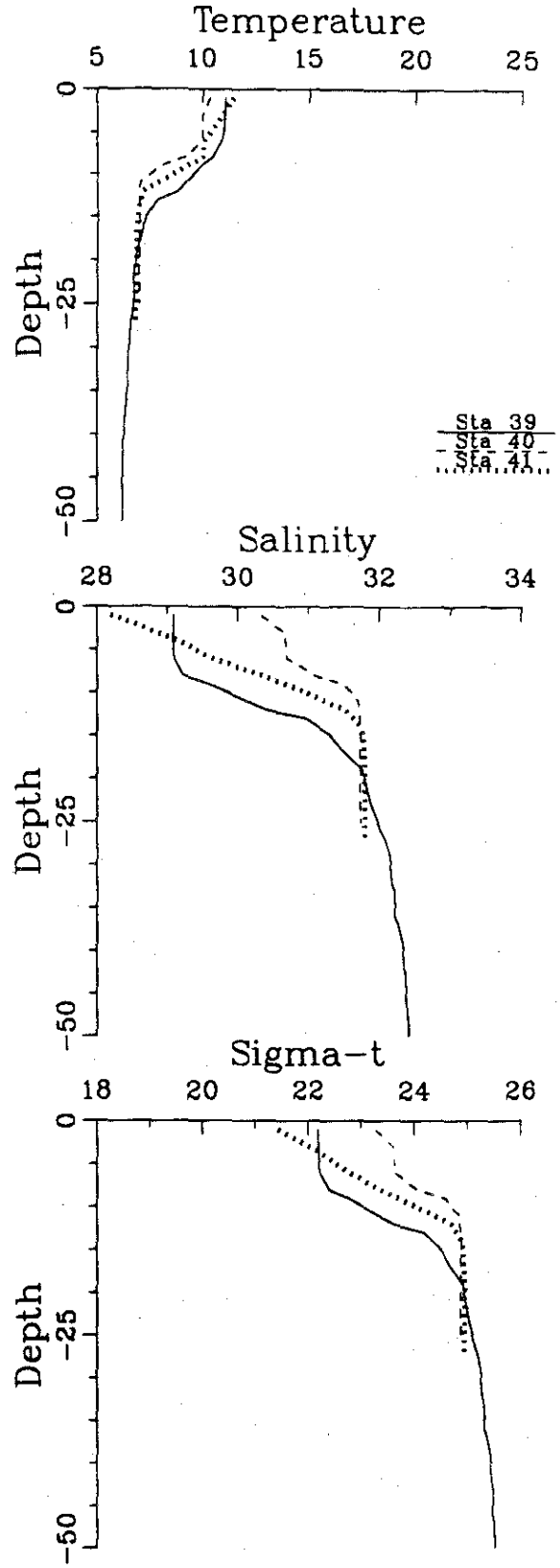
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.10	29.101	22.200	7.40
4	11.01	29.082	22.201	
6	10.90	29.102	22.235	
8	10.48	29.226	22.401	
12	8.82	30.427	23.594	
15	7.27	31.308	24.503	6.42
22	6.74	31.851	24.998	
26	6.70	32.015	25.133	
32	6.49	32.171	25.282	
36	6.42	32.225	25.333	
42	6.26	32.365	25.464	
50	6.19	32.417	25.513	
55	6.16	32.457	25.549	6.11
61	6.16	32.457	25.549	5.99

Sta 40 Depth 25 M Date 5/15/87
Lat 40 18.3N Lon 73 40.0W Time 518

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.39	30.348	23.286	
3	10.01	30.669	23.598	
6	9.98	30.700	23.627	
8	9.18	31.101	24.065	
9	7.95	31.489	24.551	
11	7.04	31.712	24.850	
14	6.99	31.730	24.871	
15	6.98	31.734	24.875	
16	6.99	31.734	24.874	
17	6.98	31.737	24.878	
19	6.99	31.736	24.876	
25	6.99	31.736	24.876	

Sta 41 Depth 27 M Date 5/15/87
Lat 40 18.2N Lon 73 43.2W Time 624

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.48	28.203	21.440	
4	10.65	29.151	22.314	
6	10.08	29.638	22.785	
8	10.01	30.364	23.361	
10	8.56	30.965	24.053	
12	7.18	31.525	24.685	
14	6.94	31.747	24.891	
15	6.91	31.766	24.910	
16	6.87	31.787	24.931	
17	6.85	31.794	24.939	
19	6.84	31.795	24.942	
21	6.83	31.800	24.947	
27	6.83	31.800	24.947	



Sta 42 Depth 57 M Date 5/15/87
Lat 40 20.2N Lon 73 47.2W Time 724

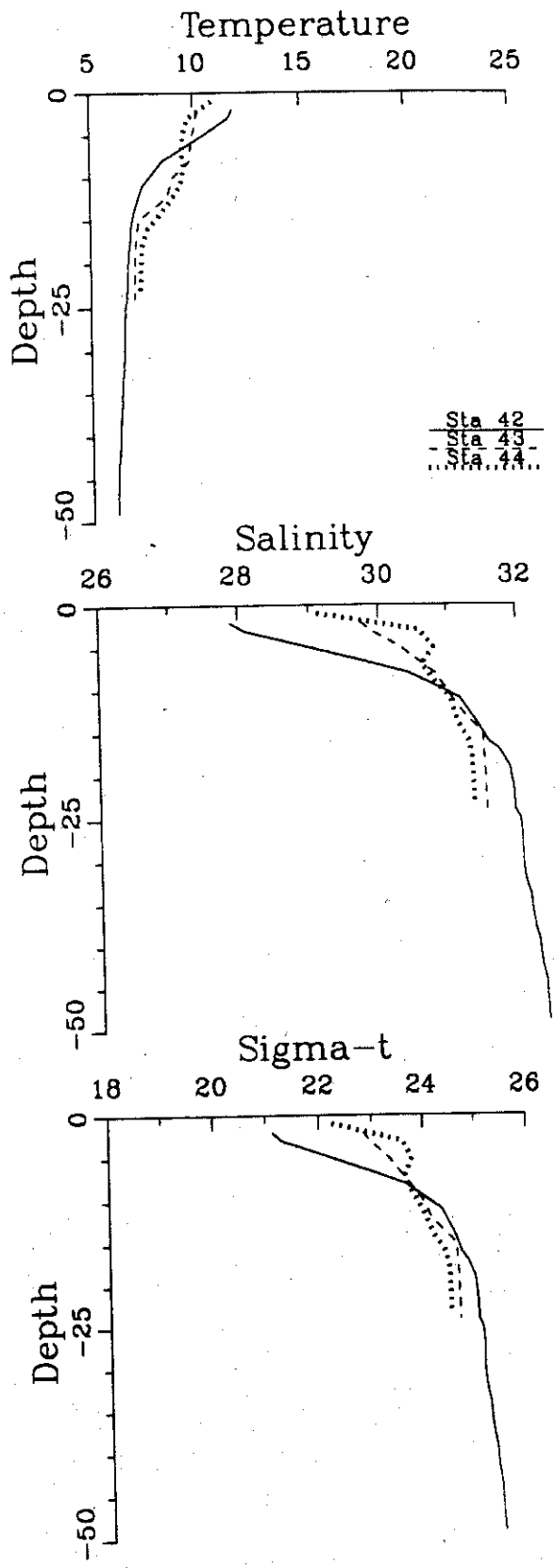
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.88	27.899	21.136	7.30
3	11.67	28.102	21.329	
5	10.46	29.036	22.256	
8	8.50	30.453	23.662	
10	7.86	30.957	24.147	
14	7.10	31.453	24.639	
15	7.02	31.519	24.701	6.17
17	6.95	31.744	24.887	
22	6.76	31.950	25.074	
24	6.74	31.960	25.084	
25	6.65	32.036	25.155	
27	6.61	32.061	25.180	
30	6.60	32.066	25.185	
32	6.55	32.099	25.218	
36	6.45	32.195	25.306	
42	6.30	32.331	25.432	
45	6.23	32.392	25.489	
52	6.17	32.435	25.530	
57	6.17	32.435	25.530	5.87

Sta 43 Depth 24 M Date 5/15/87
Lat 40 18.3N Lon 73 52.0W Time 830

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.18	29.746	22.853	
3	10.19	29.892	22.965	
5	9.97	30.333	23.343	
8	9.80	30.832	23.758	
10	8.96	30.999	24.020	
12	8.73	31.170	24.188	
13	8.34	31.269	24.323	
15	7.31	31.513	24.658	
18	7.16	31.529	24.691	
19	7.13	31.537	24.701	
24	7.11	31.554	24.717	

Sta 44 Depth 23 M Date 5/15/87
Lat 40 18.1N Lon 73 53.2W Time 912

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.90	29.131	22.257	
3	9.73	30.610	23.597	
5	9.51	30.811	23.788	
7	9.44	30.644	23.669	
9	9.51	30.821	23.796	
11	9.34	31.047	23.999	
14	8.45	31.167	24.227	
15	8.11	31.242	24.335	
16	7.73	31.316	24.446	
18	7.45	31.355	24.515	
23	7.37	31.375	24.542	



Sta 45 Depth 22 M Date 5/15/87
Lat 40 18.1N Lon 73 55.4W Time 954

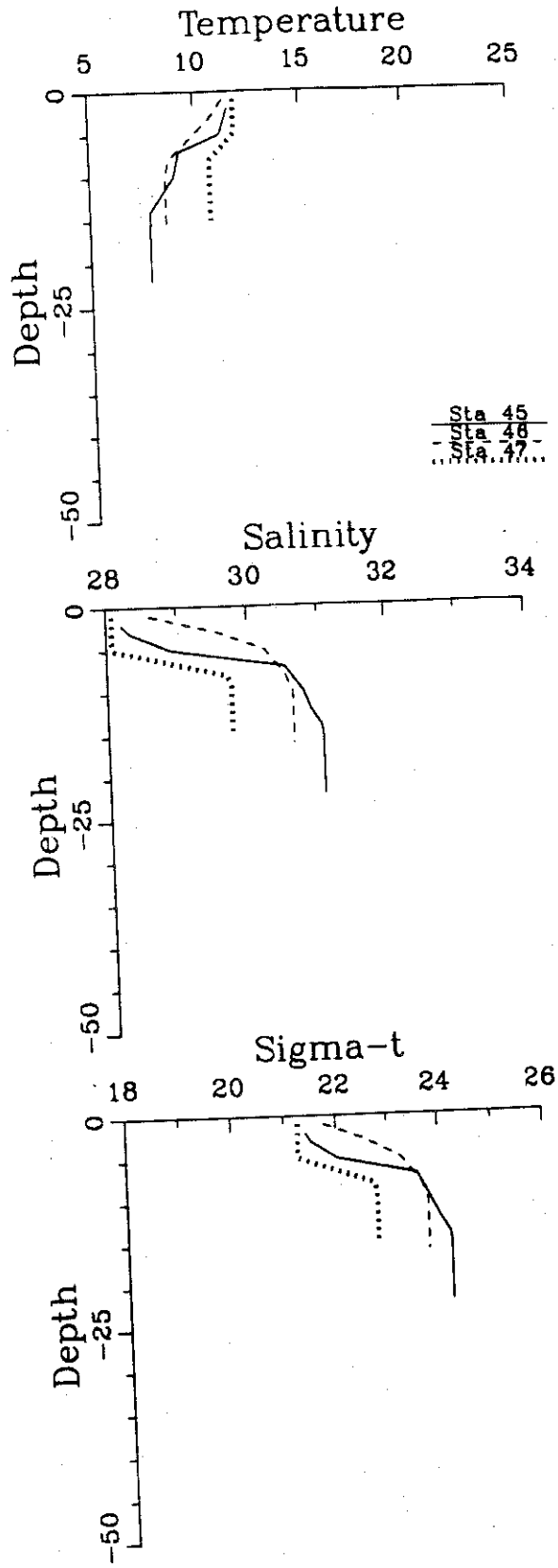
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.61	28.221	21.432	7.30
3	11.51	28.332	21.535	
5	11.21	28.900	22.026	
7	9.29	30.526	23.600	
10	8.99	30.796	23.857	
12	8.44	30.890	24.012	
14	7.86	31.041	24.213	6.17
15	7.84	31.062	24.232	
16	7.83	31.063	24.234	
22	7.83	31.063	24.234	

Sta 46 Depth 16 M Date 5/15/87
Lat 40 18.2N Lon 73 56.9W Time 1036

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.40	28.619	21.776	
3	10.81	29.596	22.633	
5	9.97	30.242	23.272	
8	8.79	30.532	23.681	
10	8.61	30.642	23.793	
16	8.61	30.642	23.793	

Sta 47 Depth 15 M Date 5/15/87
Lat 40 10.0N Lon 73 58.5W Time 1206

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.90	28.087	21.278	
4	11.90	28.080	21.272	
5	11.87	28.111	21.301	
8	10.72	29.707	22.734	
9	10.69	29.771	22.789	
15	10.69	29.771	22.789	



Sta 48 Depth 22 M Date 5/15/87
Lat 40 10.1N Lon 73 56.4W Time 1248

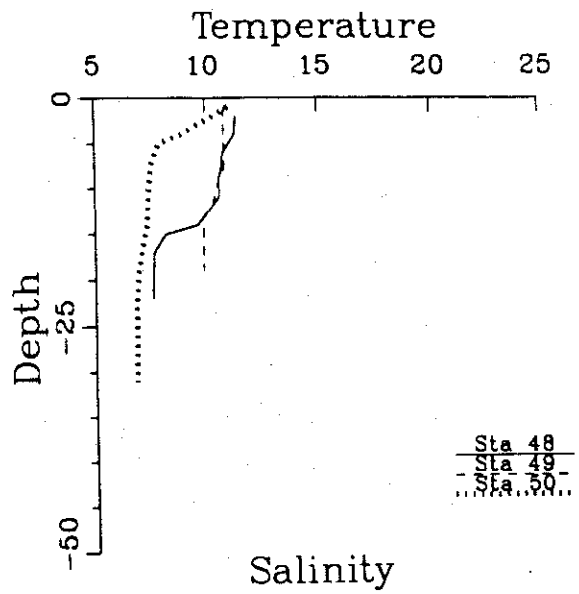
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.38	28.787	21.909	
4	11.33	28.862	21.976	
6	10.77	29.546	22.601	
8	10.69	29.729	22.756	
9	10.58	30.058	23.030	
11	10.60	30.746	23.560	
14	9.63	30.875	23.819	
15	8.22	31.185	24.274	
17	7.68	31.457	24.563	
22	7.62	31.476	24.587	

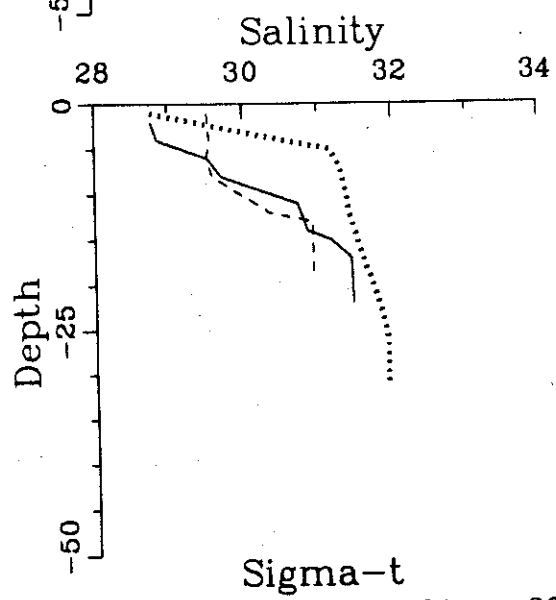
Sta 49 Depth 19 M Date 5/15/87
Lat 40 10.0N Lon 73 54.0W Time 1336

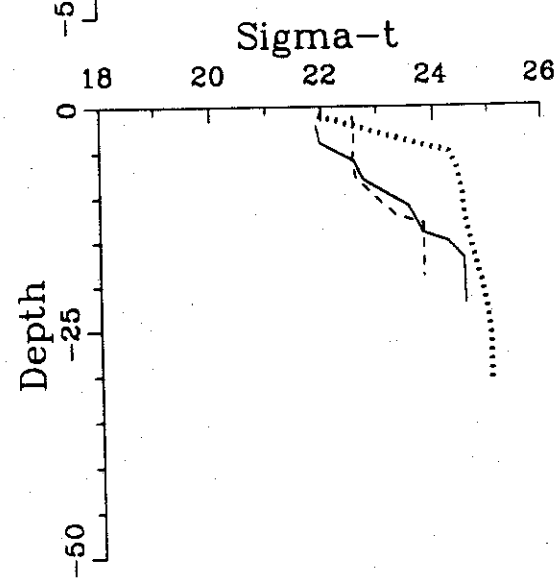
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.86	29.541	22.582	
4	10.84	29.561	22.601	
6	10.85	29.525	22.571	
8	10.81	29.600	22.636	
9	10.60	29.794	22.821	
12	10.31	30.373	23.319	
13	9.89	30.942	23.830	
19	9.89	30.942	23.830	

Sta 50 Depth 31 M Date 5/15/87
Lat 40 10.0N Lon 73 49.5W Time 1430

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.04	28.781	21.963	
4	8.94	30.534	23.660	
5	7.95	31.172	24.303	
7	7.61	31.307	24.456	
10	7.46	31.396	24.546	
12	7.41	31.423	24.574	
14	7.37	31.507	24.645	
16	7.19	31.578	24.725	
18	7.06	31.656	24.803	
19	6.97	31.708	24.856	
21	6.90	31.786	24.927	
23	6.87	31.859	24.988	
26	6.88	31.935	25.046	
31	6.88	31.935	25.046	







Sta 51 Depth 40 M Date 5/15/87
Lat 40 10.1N Lon 73 36.6W Time 2330

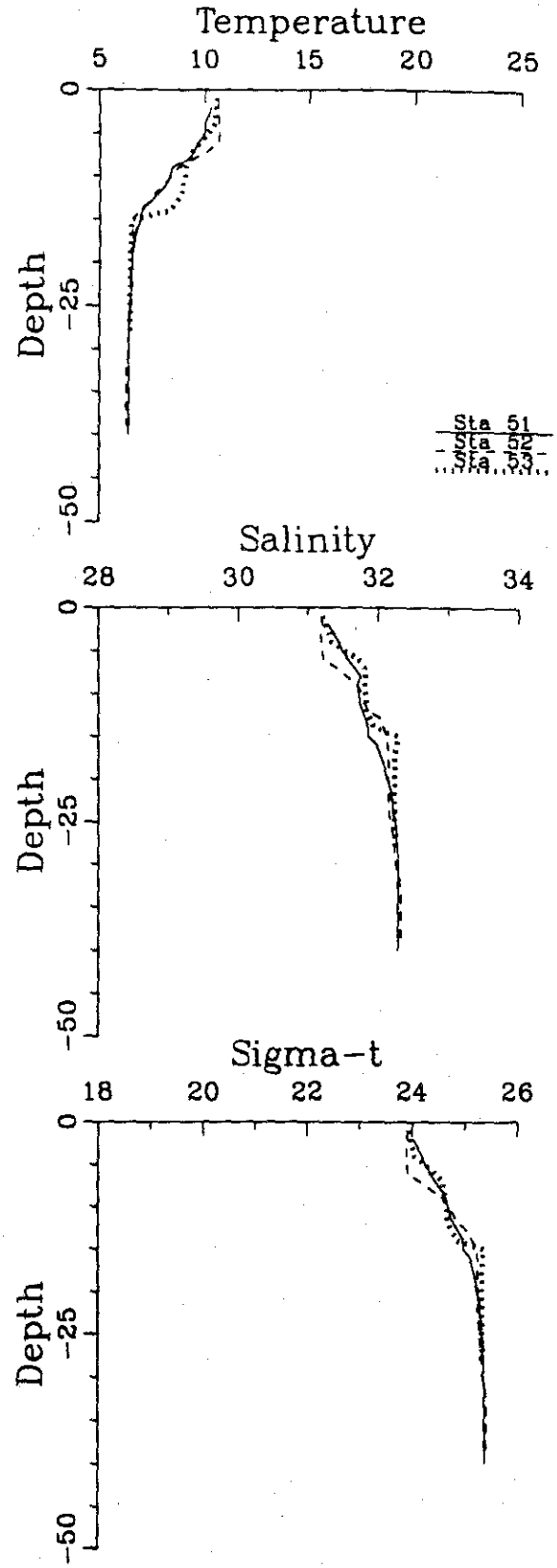
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.31	31.286	24.028	6.67
4	10.01	31.431	24.190	
5	9.98	31.485	24.237	
8	9.27	31.742	24.551	
11	8.18	31.737	24.712	
14	6.98	31.859	24.973	
15	6.91	31.851	24.976	6.72
17	6.65	32.029	25.150	
22	6.47	32.200	25.307	
24	6.47	32.219	25.322	
25	6.45	32.249	25.348	
28	6.40	32.276	25.376	
30	6.39	32.285	25.384	
34	6.38	32.287	25.387	
35	6.38	32.288	25.388	6.54
40	6.38	32.288	25.388	6.50

Sta 52 Depth 39 M Date 5/16/87
Lat 40 10.0N Lon 73 30.1W Time 118

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.65	31.201	23.905	
4	10.66	31.192	23.896	
6	10.65	31.206	23.909	
7	10.19	31.410	24.144	
9	8.78	31.704	24.597	
12	7.62	31.870	24.895	
13	7.27	32.042	25.078	
15	6.55	32.129	25.241	
16	6.56	32.133	25.243	
17	6.55	32.144	25.253	
19	6.54	32.150	25.259	
22	6.54	32.158	25.265	
24	6.50	32.165	25.276	
26	6.45	32.197	25.308	
28	6.39	32.230	25.341	
30	6.36	32.253	25.363	
31	6.32	32.284	25.392	
33	6.27	32.325	25.431	
39	6.27	32.325	25.431	

Sta 53 Depth 28 M Date 5/16/87
Lat 40 14.9N Lon 73 29.9W Time 230

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.57	31.216	23.930	
4	10.46	31.333	24.039	
6	9.85	31.709	24.433	
7	9.42	31.810	24.581	
9	9.11	31.810	24.629	
12	8.91	31.835	24.679	
14	8.36	31.950	24.852	
15	6.54	32.277	25.359	
18	6.45	32.233	25.336	
19	6.44	32.237	25.340	
22	6.44	32.240	25.343	
28	6.44	32.240	25.343	



Sta 54 Depth 25 M Date 5/16/87
Lat 40 20.0N Lon 73 30.0W Time 336

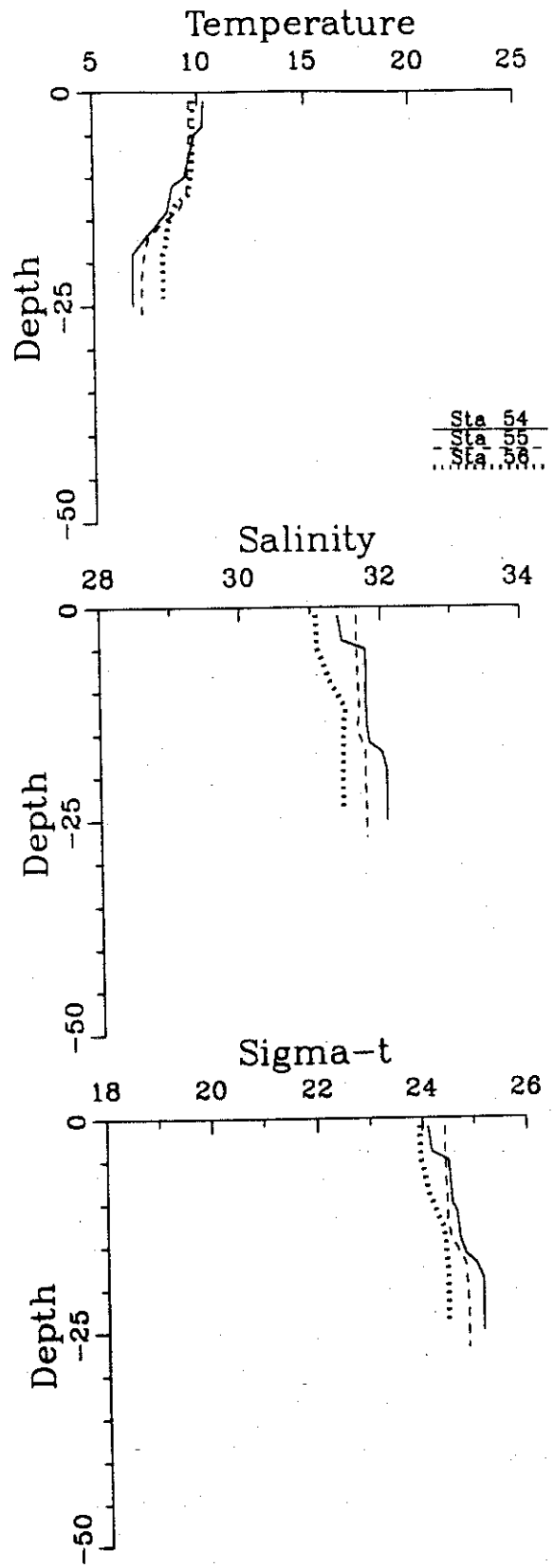
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.29	31.388	24.111	6.67
4	10.23	31.454	24.172	
5	9.83	31.779	24.491	
8	9.54	31.785	24.542	
10	9.34	31.777	24.567	
11	8.76	31.781	24.660	
14	8.52	31.798	24.709	6.72
16	7.86	31.831	24.831	
17	7.47	32.006	25.023	
19	6.86	32.076	25.160	
25	6.86	32.076	25.160	

Sta 55 Depth 27 M Date 5/16/87
Lat 40 24.8N Lon 73 30.0W Time 436

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.60	31.655	24.431	
4	9.61	31.657	24.431	
5	9.61	31.656	24.430	
7	9.57	31.663	24.442	
9	9.50	31.672	24.460	
12	9.44	31.682	24.478	
14	9.03	31.664	24.528	
15	8.47	31.684	24.628	
17	7.60	31.772	24.821	
20	7.33	31.768	24.855	
22	7.28	31.778	24.870	
27	7.28	31.778	24.870	

Sta 56 Depth 24 M Date 5/16/87
Lat 40 29.8N Lon 73 30.0W Time 548

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.79	31.079	23.952	
3	9.79	31.085	23.957	
5	9.78	31.096	23.967	
7	9.75	31.193	24.047	
9	9.71	31.279	24.121	
12	9.53	31.495	24.318	
13	8.95	31.472	24.390	
15	8.61	31.454	24.427	
16	8.52	31.455	24.441	
18	8.40	31.456	24.460	
19	8.29	31.447	24.469	
24	8.29	31.447	24.469	



Sta 57 Depth 16 M Date 5/16/87
Lat 40 32.3N Lon 73 30.0W Time 612

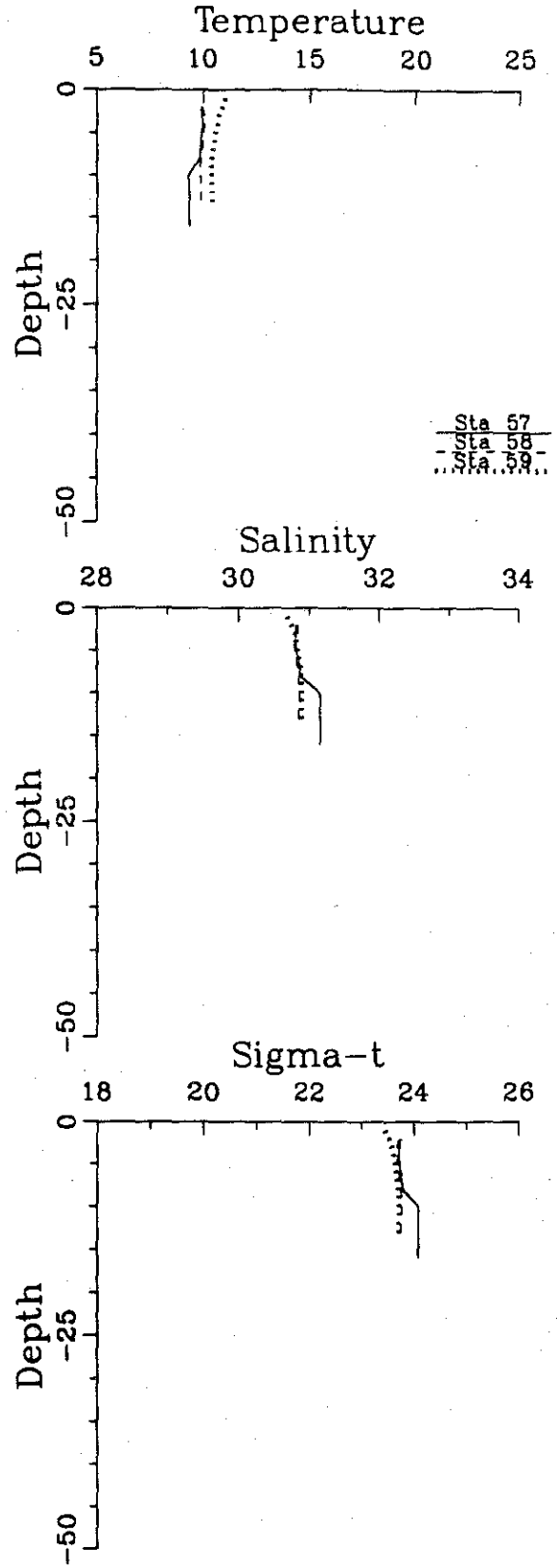
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.89	30.836	23.747	
4	9.94	30.808	23.717	
5	9.92	30.820	23.730	
8	9.81	30.879	23.793	
10	9.30	31.152	24.087	
11	9.31	31.158	24.090	
16	9.31	31.158	24.090	

Sta 58 Depth 13 M Date 5/16/87
Lat 40 32.8N Lon 73 29.9W Time 648

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.96	30.814	23.719	
3	10.03	30.795	23.693	
5	10.03	30.795	23.693	
8	9.87	30.854	23.764	
13	9.87	30.854	23.764	

Sta 59 Depth 13 M Date 5/16/87
Lat 40 33.4N Lon 73 40.1W Time 812

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.02	30.689	23.444	
3	10.71	30.806	23.588	
6	10.51	30.854	23.659	
8	10.38	30.891	23.710	
13	10.38	30.891	23.710	



Sta 60 Depth 16 M Date 5/16/87
Lat 40 32.1N Lon 73 39.8W Time 848

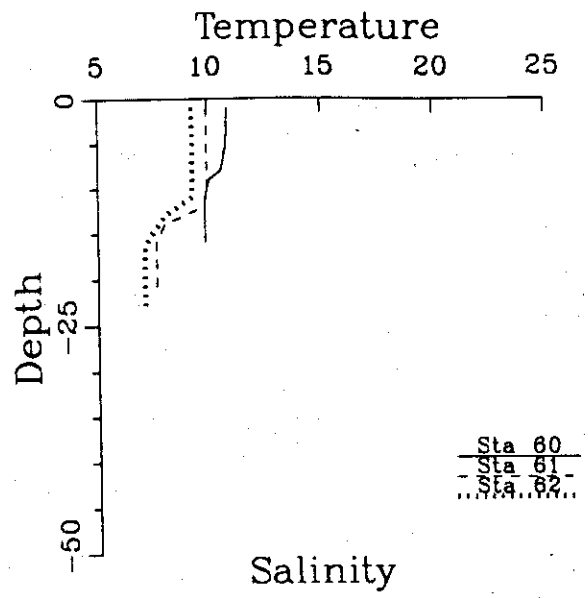
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.91	30.730	23.495	
3	10.88	30.738	23.506	
5	10.85	30.749	23.520	
8	10.60	30.829	23.625	
9	10.10	30.957	23.807	
11	9.89	30.979	23.858	
16	9.89	30.979	23.858	

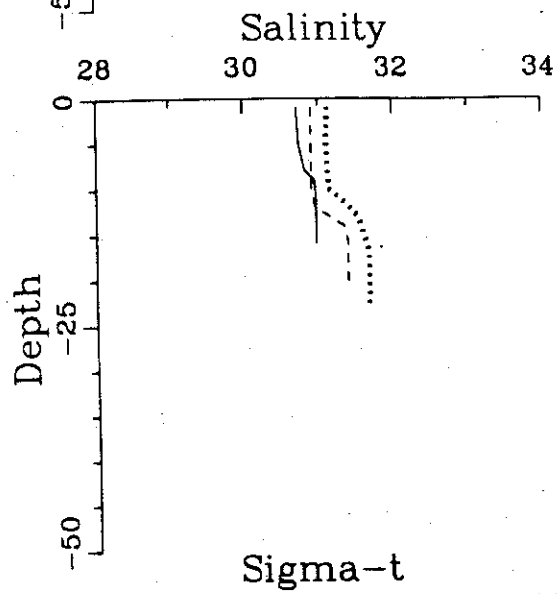
Sta 61 Depth 21 M Date 5/16/87
Lat 40 29.1N Lon 73 39.7W Time 930

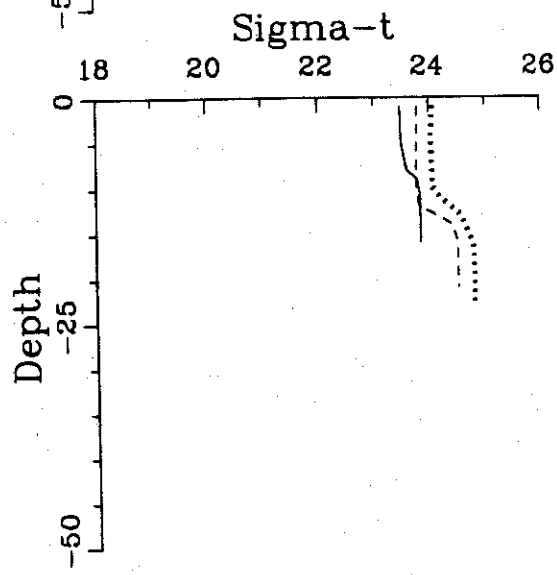
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.99	30.916	23.793	
3	9.99	30.915	23.792	
5	9.99	30.915	23.792	
8	9.99	30.916	23.793	
10	9.98	30.920	23.798	
12	9.87	30.960	23.847	
14	8.06	31.346	24.423	
16	7.67	31.400	24.520	
21	7.67	31.400	24.520	

Sta 62 Depth 23 M Date 5/16/87
Lat 40 26.6N Lon 73 39.8W Time 1012

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.30	31.127	24.067	
4	9.33	31.113	24.052	
5	9.34	31.112	24.049	
8	9.32	31.133	24.069	
10	9.32	31.144	24.077	
11	9.29	31.296	24.200	
13	8.06	31.534	24.570	
16	7.21	31.651	24.780	
17	7.13	31.679	24.812	
23	7.13	31.679	24.812	







Sta 63 Depth 26 M Date 5/16/87
Lat 40 23.6N Lon 73 40.0W Time 1054

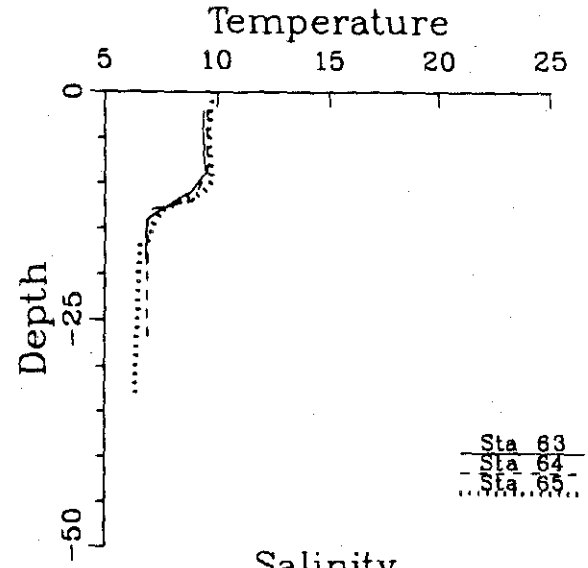
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.40	31.273	24.165	
3	9.39	31.273	24.167	
5	9.39	31.274	24.168	
8	9.43	31.252	24.144	
9	9.45	31.249	24.139	
11	8.84	31.347	24.309	
14	6.88	31.786	24.929	
16	6.86	31.797	24.940	
17	6.84	31.804	24.949	
19	6.84	31.808	24.952	

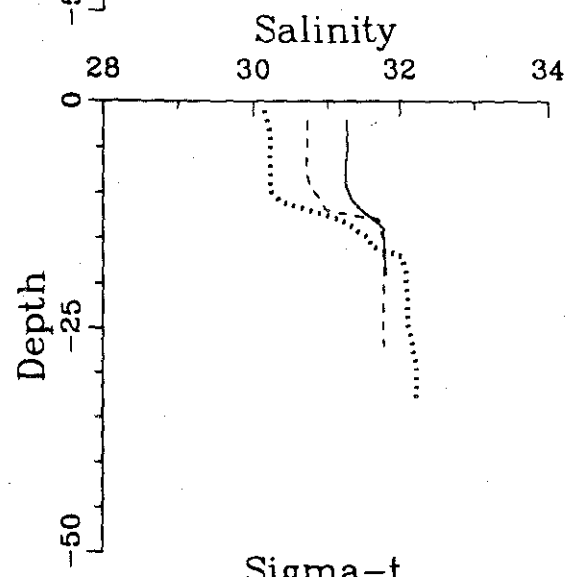
Sta 64 Depth 27 M Date 5/16/87
Lat 40 21.1N Lon 73 40.0W Time 1124

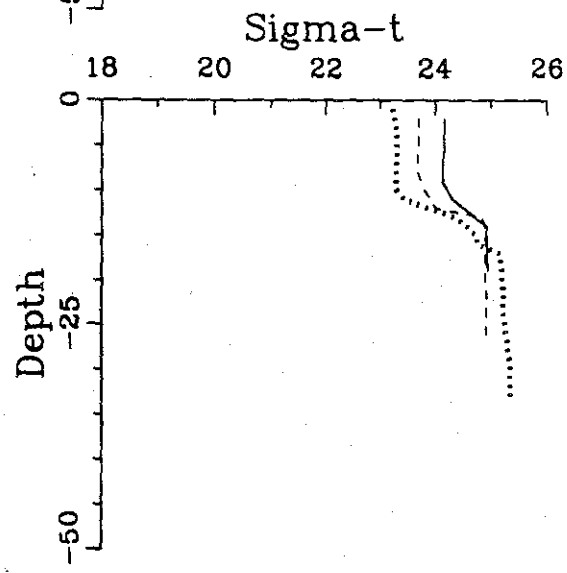
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.58	30.728	23.712	
4	9.59	30.726	23.709	
6	9.58	30.722	23.708	
8	9.58	30.721	23.707	
9	9.51	30.749	23.740	
12	8.89	30.996	24.028	
13	7.02	31.719	24.858	
15	6.91	31.775	24.917	
17	6.90	31.782	24.923	
20	6.90	31.784	24.925	
22	6.90	31.787	24.927	
27	6.90	31.787	24.927	

Sta 65 Depth 34 M Date 5/16/87
Lat 40 19.7N Lon 73 46.6W Time 1218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.73	30.157	23.244	
4	9.64	30.230	23.315	
6	9.66	30.232	23.314	
8	9.71	30.230	23.304	
10	9.72	30.245	23.315	
11	9.37	30.348	23.449	
13	7.55	31.175	24.360	
15	7.08	31.588	24.747	
16	7.05	31.607	24.766	
17	6.58	32.044	25.171	
19	6.51	32.089	25.215	
21	6.49	32.107	25.232	
24	6.48	32.114	25.238	
25	6.46	32.137	25.259	
28	6.41	32.206	25.320	
29	6.38	32.239	25.349	
33	6.38	32.239	25.349	







Sta 66 Depth 57 M Date 5/16/87
Lat 40 19.7N Lon 73 47.7W Time 1254

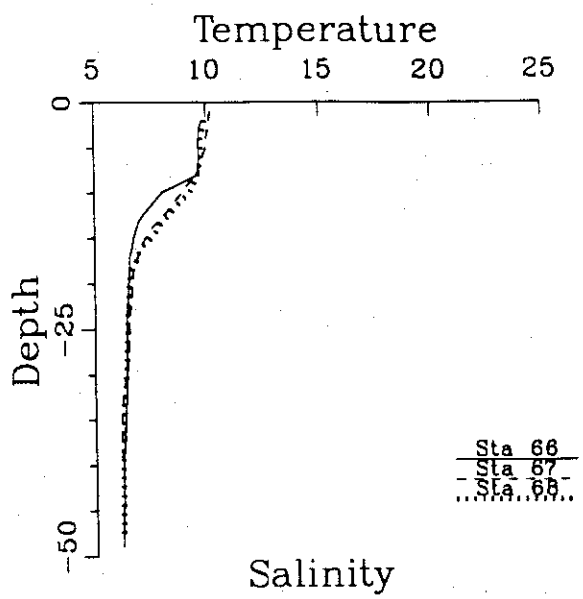
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.85	30.058	23.148	6.88
3	9.68	30.112	23.217	
5	9.67	30.104	23.213	
8	9.67	30.105	23.213	
10	8.00	31.014	24.172	
12	7.31	31.358	24.536	
15	6.74	31.849	24.997	5.85
17	6.57	32.032	25.163	
22	6.48	32.127	25.249	
24	6.43	32.166	25.286	
25	6.42	32.173	25.292	
27	6.42	32.179	25.297	
32	6.38	32.276	25.379	
34	6.35	32.297	25.399	
35	6.32	32.320	25.421	
41	6.22	32.409	25.503	
46	6.20	32.421	25.515	
51	6.20	32.428	25.521	
54	6.18	32.420	25.517	6.04
57	6.18	32.420	25.517	6.07

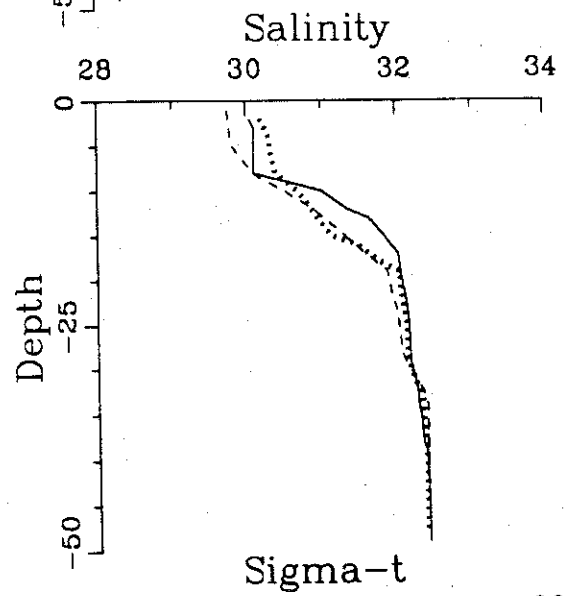
Sta 67 Depth 40 M Date 5/16/87
Lat 40 19.5N Lon 73 49.2W Time 1442

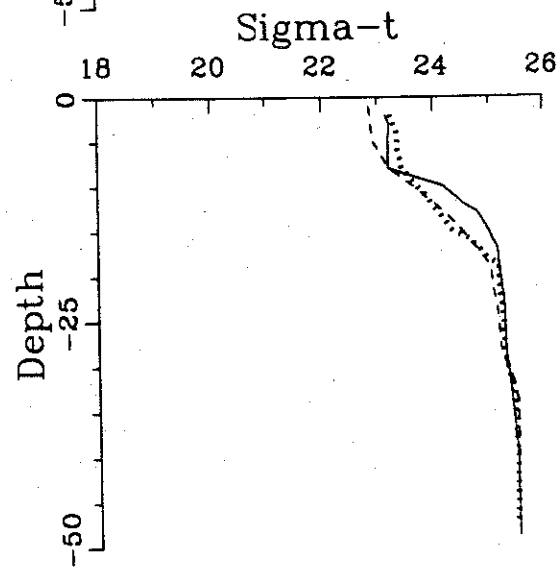
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.22	29.754	22.853	
4	10.02	29.785	22.909	
5	9.99	29.810	22.933	
8	9.55	30.093	23.223	
10	8.89	30.513	23.651	
12	8.26	30.890	24.038	
14	7.52	31.179	24.368	
15	7.26	31.321	24.514	
17	6.92	31.594	24.773	
19	6.71	31.893	25.035	
22	6.64	31.949	25.088	
23	6.57	32.002	25.139	
26	6.51	32.053	25.187	
28	6.49	32.077	25.208	
29	6.46	32.120	25.246	
32	6.25	32.340	25.445	
34	6.17	32.417	25.516	
40	6.17	32.417	25.516	

Sta 68 Depth 48 M Date 5/16/87
Lat 40 20.6N Lon 73 48.1W Time 1530

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.97	30.192	23.233	6.88
4	9.77	30.313	23.359	
6	9.76	30.340	23.382	
8	9.61	30.399	23.452	
10	9.25	30.678	23.725	
13	8.10	30.948	24.106	
15	7.52	31.141	24.338	6.12
18	6.78	31.807	24.959	
22	6.50	32.074	25.204	
24	6.45	32.122	25.249	
25	6.43	32.140	25.265	
28	6.42	32.148	25.273	
30	6.38	32.195	25.315	
32	6.32	32.286	25.394	
35	6.23	32.363	25.466	
42	6.19	32.395	25.496	5.99
48	6.19	32.395	25.496	5.91







Sta 69 Depth 45 M Date 5/16/87
Lat 40 21.3N Lon 73 48.1W Time 1600

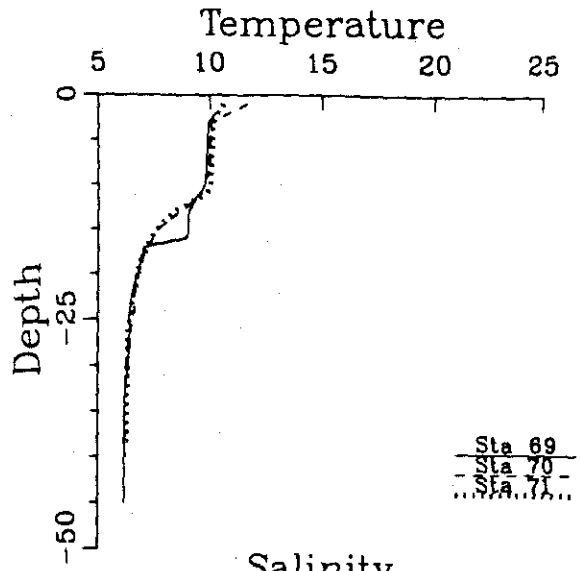
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.29	30.538	23.450	6.76
3	9.95	30.567	23.528	
5	9.89	30.580	23.548	
7	9.86	30.721	23.662	
10	9.79	30.825	23.755	
13	9.06	30.875	23.908	
15	9.03	31.003	24.012	6.74
17	7.06	31.520	24.697	
20	6.80	31.853	24.992	
22	6.56	32.053	25.180	
25	6.46	32.117	25.243	
27	6.45	32.136	25.260	
32	6.29	32.289	25.400	
33	6.25	32.338	25.444	
36	6.23	32.360	25.464	
37	6.22	32.368	25.471	5.92
45	6.22	32.368	25.471	6.00

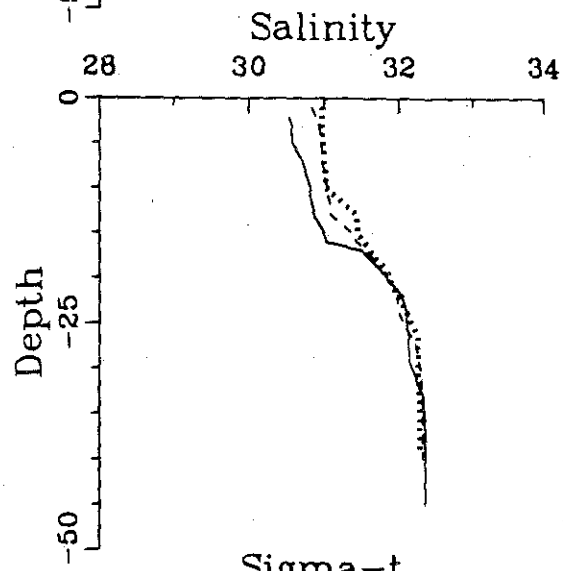
Sta 70 Depth 40 M Date 5/16/87
Lat 40 22.9N Lon 73 47.5W Time 1712

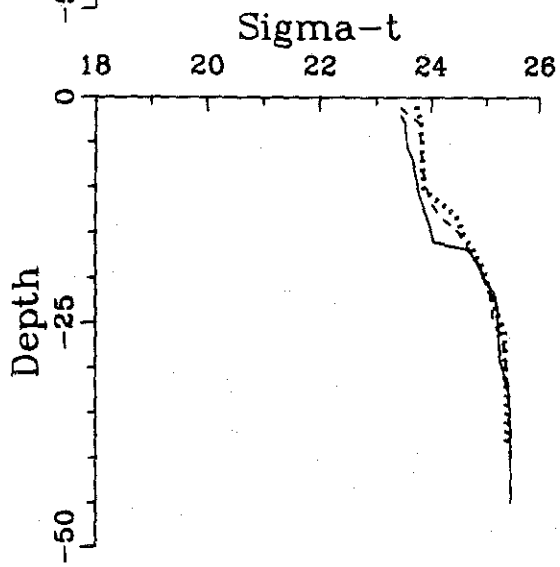
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.67	30.847	23.452	
3	10.09	30.938	23.794	
6	10.02	30.966	23.827	
8	10.02	30.992	23.847	
9	9.90	31.019	23.888	
11	9.57	31.059	23.972	
13	8.77	31.106	24.132	
15	7.66	31.386	24.511	
16	7.50	31.445	24.579	
18	7.06	31.692	24.832	
20	6.84	31.808	24.952	
21	6.68	31.973	25.102	
24	6.64	32.007	25.134	
25	6.58	32.056	25.180	
27	6.39	32.226	25.338	
29	6.32	32.278	25.388	
31	6.28	32.316	25.423	
34	6.24	32.338	25.445	
40	6.24	32.338	25.445	

Sta 71 Depth 39 M Date 5/16/87
Lat 40 24.4N Lon 73 47.2W Time 1824

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.60	30.976	23.739	6.88
3	10.16	30.977	23.813	
5	10.11	30.984	23.826	
7	10.08	30.995	23.840	
10	10.03	31.030	23.875	
11	9.84	31.167	24.013	
13	8.46	31.438	24.437	6.12
15	7.61	31.455	24.572	
18	7.00	31.710	24.854	
19	6.84	31.831	24.970	
21	6.73	31.922	25.056	
23	6.56	32.060	25.186	
26	6.37	32.244	25.355	
27	6.35	32.263	25.372	
30	6.34	32.269	25.378	
32	6.33	32.281	25.389	5.99
34	6.32	32.294	25.400	5.91
39	6.32	32.294	25.400	







Sta 72 Depth 36 M Date 5/16/87
Lat 40 24.9N Lon 73 48.3W Time 1942

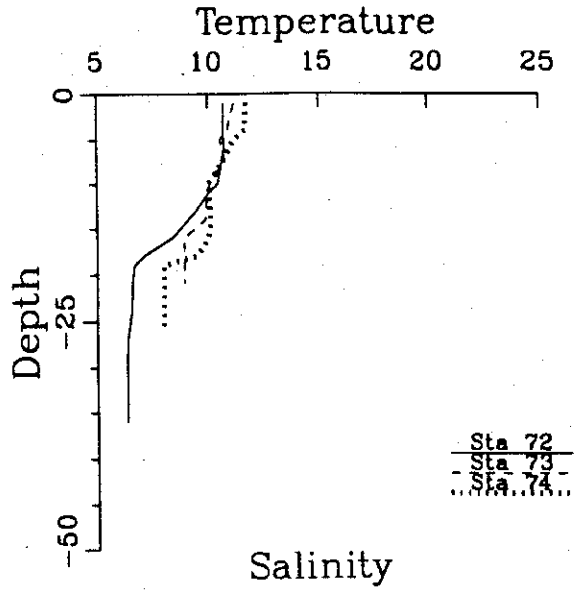
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.73	31.030	23.759	6.76
4	10.71	31.021	23.755	
6	10.72	31.024	23.756	
8	10.59	31.017	23.772	
10	10.45	31.030	23.806	
11	10.04	31.057	23.895	
13	9.47	31.391	24.246	6.74
16	8.39	31.477	24.478	
18	7.04	31.798	24.918	
19	6.65	31.955	25.092	
21	6.57	32.019	25.152	
24	6.53	32.063	25.192	
26	6.43	32.171	25.290	
27	6.35	32.251	25.363	
30	6.33	32.268	25.379	
31	6.33	32.270	25.380	5.92
36	6.33	32.270	25.380	6.00

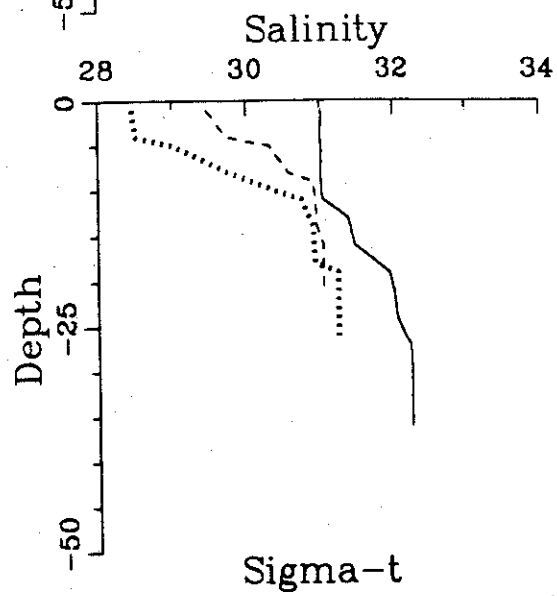
Sta 73 Depth 21 M Date 5/16/87
Lat 40 23.9N Lon 73 52.1W Time 2030

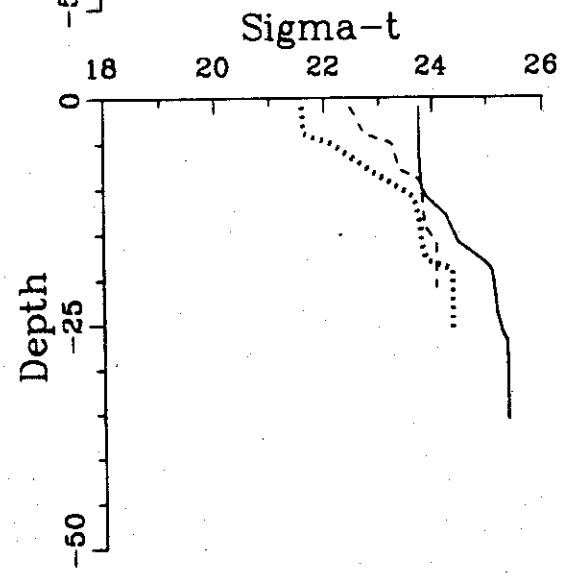
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.18	29.471	22.473	
4	10.88	29.733	22.727	
5	10.54	30.317	23.237	
8	10.78	30.578	23.399	
9	10.17	30.914	23.762	
11	9.96	30.946	23.821	
14	9.87	30.965	23.851	
16	8.93	31.054	24.067	
21	8.93	31.054	24.067	

Sta 74 Depth 26 M Date 5/16/87
Lat 40 23.8N Lon 73 52.9W Time 2148

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.72	28.458	21.596	6.88
4	11.66	28.507	21.644	
5	11.17	29.023	22.128	
8	10.54	29.778	22.819	
10	10.00	30.392	23.384	
11	10.06	30.752	23.654	
14	10.11	30.920	23.777	6.12
16	10.02	30.923	23.794	
18	9.49	30.942	23.893	
19	7.99	31.254	24.361	
26	7.99	31.254	24.361	







Sta 75 Depth 25 M Date 5/16/87
Lat 40 25.3N Lon 73 54.0W Time 2230

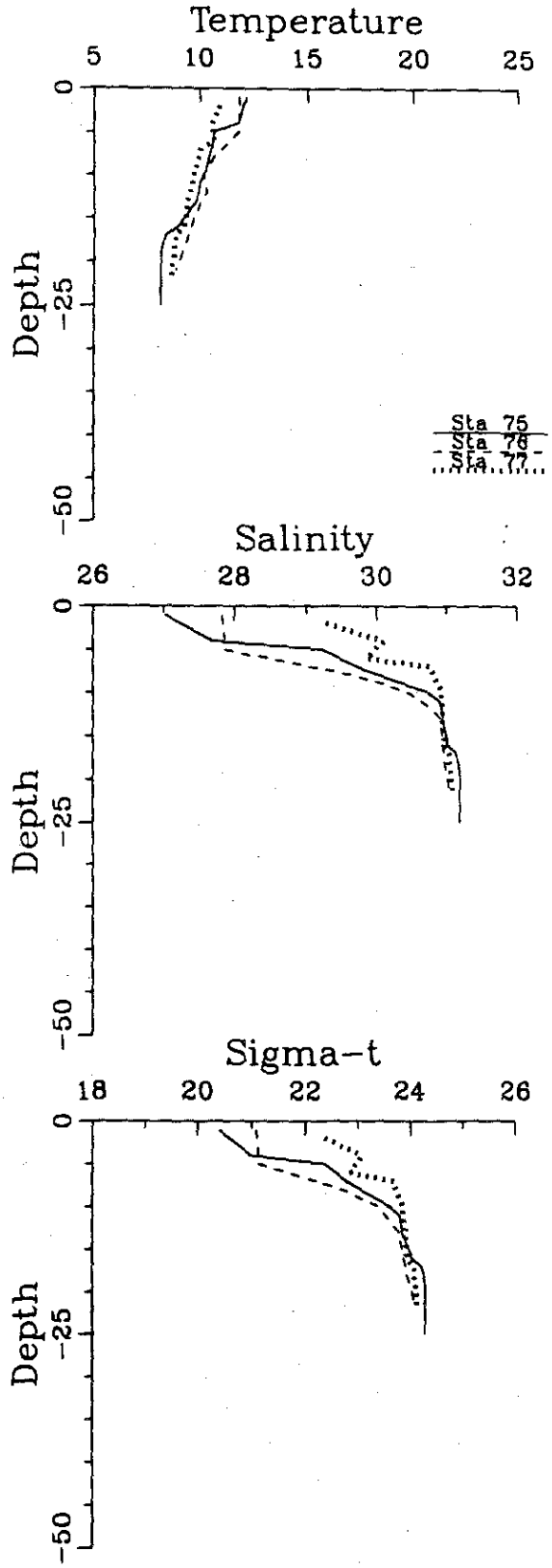
Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.17	27.039	20.421	
4	11.78	27.693	20.994	
5	10.67	29.228	22.371	
7	10.55	29.718	22.771	
10	10.22	30.747	23.624	
11	10.01	30.917	23.791	
13	9.87	30.945	23.835	
16	9.01	31.029	24.035	
17	8.36	31.139	24.218	
19	8.18	31.200	24.292	
25	8.18	31.200	24.292	

Sta 76 Depth 21 M Date 5/16/87
Lat 40 27.4N Lon 73 53.5W Time 2312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.83	27.841	21.100	
3	11.81	27.853	21.113	
5	11.81	27.869	21.125	
8	10.66	29.694	22.734	
10	10.19	30.475	23.418	
12	10.34	30.813	23.656	
13	10.08	30.904	23.769	
21	8.88	31.036	24.061	

Sta 77 Depth 22 M Date 5/17/87
Lat 40 27.6N Lon 73 54.4W Time 54

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.93	29.289	22.375	
4	10.56	30.094	23.061	
6	10.66	29.862	22.864	
7	10.06	30.776	23.673	
10	9.74	30.936	23.849	
12	9.55	30.943	23.885	
13	9.44	30.948	23.906	
16	9.27	30.958	23.940	
17	8.86	31.044	24.070	
22	8.67	31.096	24.139	



Sta 78 Depth 19 M Date 5/17/87
Lat 40 29.2N Lon 73 55.4W Time 148

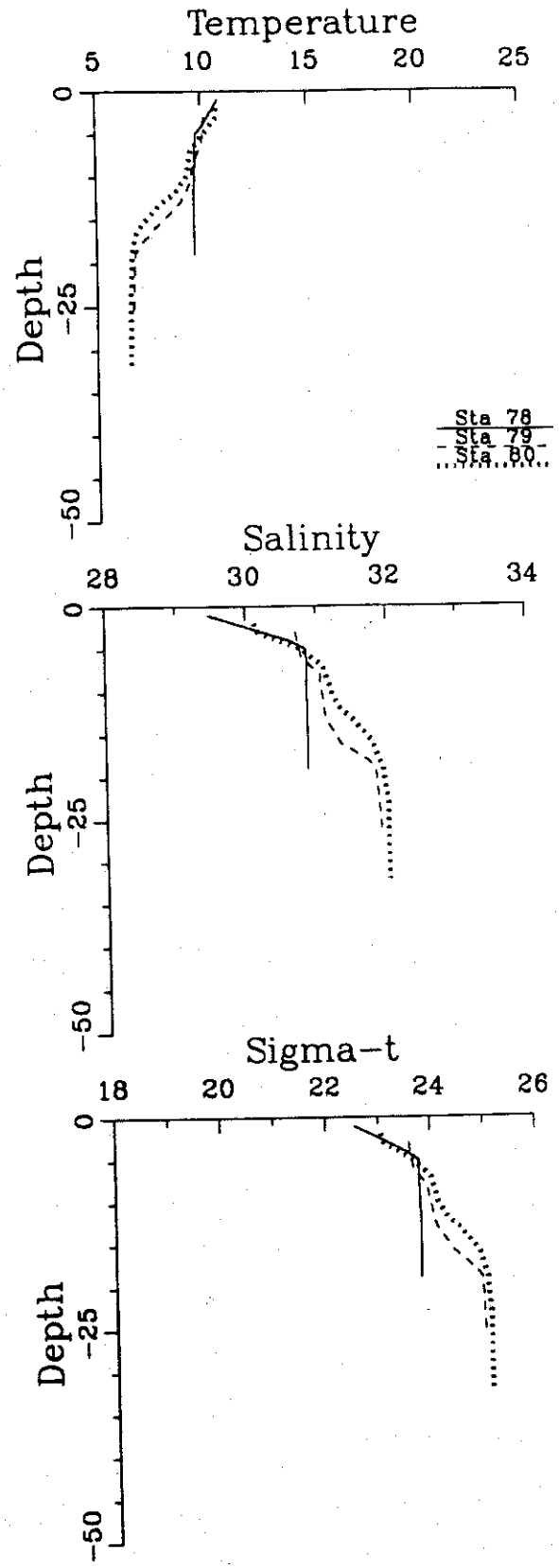
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.80	29.489	22.551	
4	10.10	30.620	23.545	
5	9.75	30.866	23.793	
7	9.72	30.869	23.800	
10	9.69	30.868	23.804	
12	9.64	30.873	23.816	
14	9.63	30.871	23.816	
19	9.63	30.871	23.816	

Sta 79 Depth 26 M Date 5/17/87
Lat 40 27.1N Lon 73 52.0W Time 248

Depth	Temp	Salinity	Sigma-t	Oxygen
3	10.14	30.715	23.612	
6	10.06	30.795	23.688	
8	9.71	31.070	23.958	
9	9.60	31.057	23.965	
11	9.44	31.110	24.032	
13	8.99	31.128	24.116	
16	7.74	31.340	24.463	
18	7.01	31.713	24.855	
19	6.81	31.836	24.978	
26	6.72	31.907	25.045	

Sta 80 Depth 32 M Date 5/17/87
Lat 40 26.6N Lon 73 49.4W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.72	30.138	23.068	
3	10.72	30.181	23.102	
5	10.12	30.795	23.678	
7	9.50	31.106	24.019	
10	9.27	31.220	24.144	
12	8.70	31.349	24.332	
13	8.09	31.491	24.532	
16	6.97	31.802	24.930	
17	6.81	31.835	24.977	
19	6.66	31.942	25.080	
22	6.62	31.987	25.121	
23	6.60	32.009	25.141	
26	6.59	32.012	25.144	
32	6.58	32.016	25.149	



Sta 81 Depth 30 M Date 5/17/87
Lat 40 27.6N Lon 73 45.6W Time 430

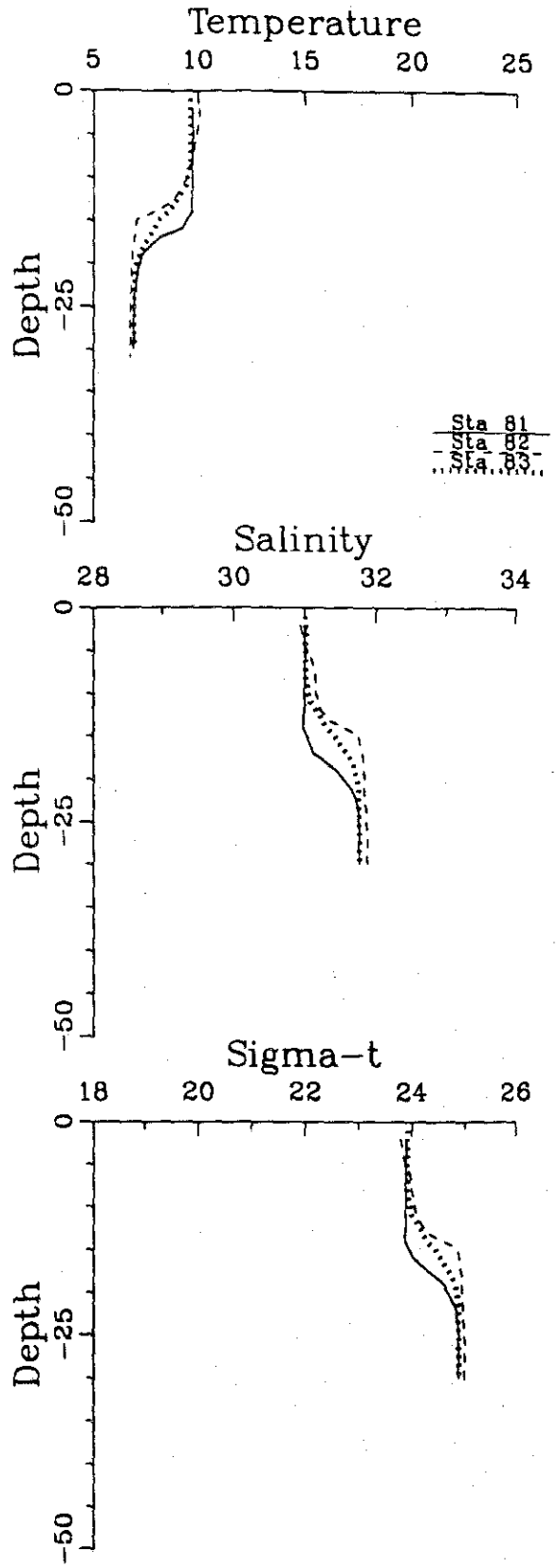
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.72	31.012	23.911	
3	9.74	31.001	23.900	
5	9.74	31.001	23.900	
8	9.73	31.003	23.903	
10	9.73	30.997	23.898	
11	9.73	31.001	23.901	
14	9.69	30.975	23.887	
16	9.26	31.081	24.037	
17	8.20	31.117	24.224	
19	7.32	31.451	24.608	
22	7.04	31.714	24.852	
24	6.96	31.761	24.899	
26	6.95	31.768	24.906	
30	6.95	31.768	24.906	

Sta 82 Depth 31 M Date 5/17/87
Lat 40 25.6N Lon 73 45.6W Time 506

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.05	30.935	23.798	
4	10.00	30.975	23.837	
6	9.85	31.106	23.964	
8	9.72	31.143	24.013	
10	9.49	31.158	24.062	
12	9.03	31.220	24.181	
13	8.77	31.322	24.300	
15	7.08	31.770	24.890	
18	6.87	31.826	24.962	
20	6.83	31.842	24.980	
22	6.82	31.847	24.985	
24	6.77	31.869	25.009	
26	6.75	31.880	25.020	
31	6.75	31.883	25.022	

Sta 83 Depth 30 M Date 5/17/87
Lat 40 26.9N Lon 73 44.0W Time 530

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.63	31.007	23.922	
3	9.63	31.009	23.923	
6	9.63	31.009	23.923	
8	9.63	31.009	23.923	
9	9.60	31.020	23.937	
11	9.42	31.081	24.013	
14	8.64	31.301	24.303	
15	8.16	31.410	24.459	
18	7.44	31.669	24.763	
20	7.02	31.739	24.874	
21	6.97	31.756	24.894	
23	6.96	31.761	24.899	
25	6.95	31.767	24.905	
30	6.95	31.768	24.906	



Sta 84 Depth 29 M Date 5/17/87
Lat 40 26.6N Lon 73 43.6W Time 712

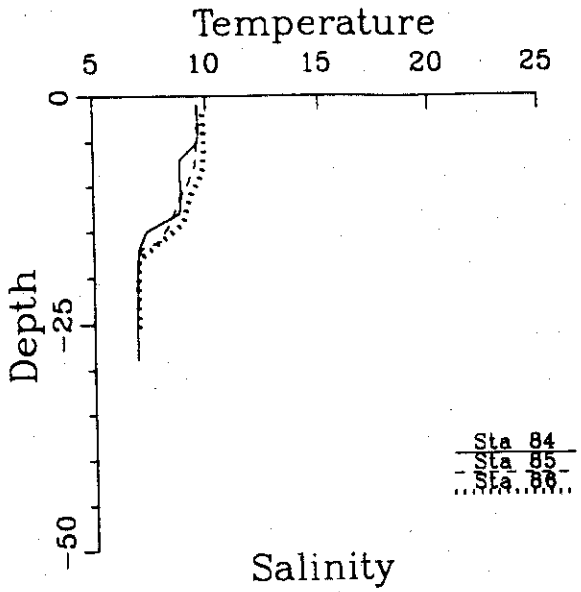
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.64	31.004	23.918	
4	9.66	30.992	23.905	
5	9.63	31.006	23.921	
7	8.83	31.283	24.261	
9	8.84	31.281	24.258	
11	8.88	31.270	24.243	
13	8.80	31.291	24.272	
15	7.34	31.664	24.772	
17	7.00	31.758	24.891	
19	6.95	31.777	24.913	
22	6.93	31.782	24.920	
24	6.92	31.785	24.923	
29	6.91	31.789	24.928	

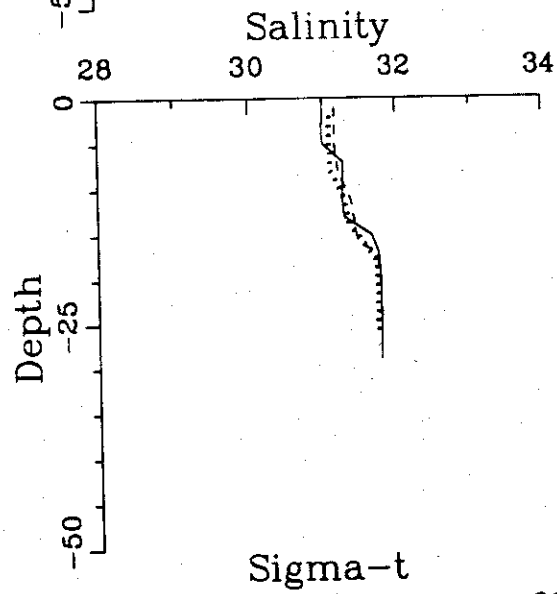
Sta 85 Depth 25 M Date 5/17/87
Lat 40 24.9N Lon 73 41.6W Time 748

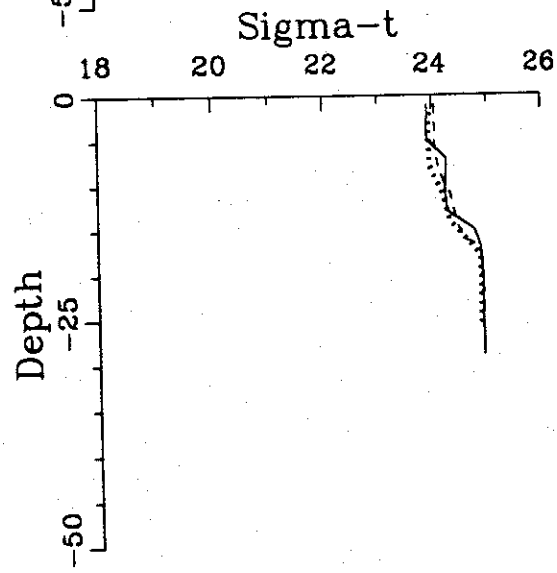
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.60	31.171	24.054	
4	9.60	31.172	24.055	
6	9.57	31.183	24.068	
8	9.46	31.216	24.111	
10	9.11	31.322	24.249	
11	8.86	31.385	24.336	
14	8.43	31.444	24.446	
15	8.14	31.460	24.501	
16	8.01	31.505	24.555	
17	7.04	31.744	24.875	
20	6.92	31.782	24.921	
25	6.91	31.799	24.936	

Sta 86 Depth 26 M Date 5/17/87
Lat 40 23.8N Lon 73 41.3W Time 824

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.87	31.100	23.956	
3	9.89	31.096	23.949	
5	9.91	31.097	23.947	
8	9.85	31.110	23.967	
9	9.71	31.173	24.038	
11	9.29	31.292	24.197	
14	8.96	31.367	24.307	
15	8.52	31.477	24.459	
18	6.99	31.733	24.873	
20	6.97	31.737	24.879	
26	6.96	31.746	24.887	







Sta 87 Depth 78 M Date 5/17/87
Lat 39 38.3N Lon 72 40.1W Time 1918

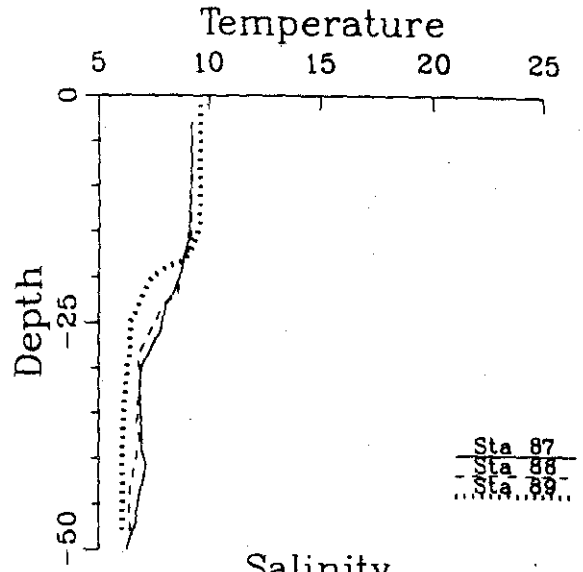
Depth	Temp	Salinity	Sigma-t	Oxygen
4	9.21	32.857	25.430	
5	9.20	32.870	25.442	
8	9.20	32.870	25.442	
9	9.20	32.861	25.435	
11	9.14	32.868	25.450	
16	9.07	32.844	25.442	
20	8.66	32.873	25.528	7.30
26	7.77	32.847	25.640	
30	6.91	32.910	25.808	
35	6.89	32.970	25.858	
41	7.15	33.044	25.881	
50	6.25	33.043	25.999	
61	6.32	33.204	26.117	
70	6.37	33.262	26.156	
73	6.41	33.272	26.159	6.30
78	6.41	33.272	26.159	6.23

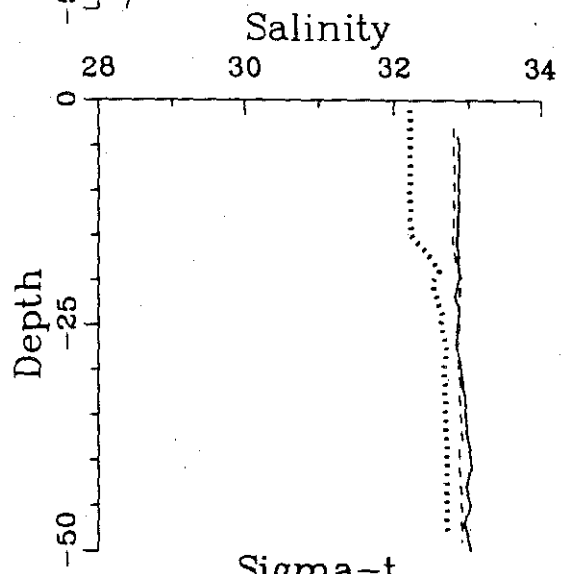
Sta 88 Depth 73 M Date 5/17/87
Lat 39 40.6N Lon 72 51.7W Time 2112

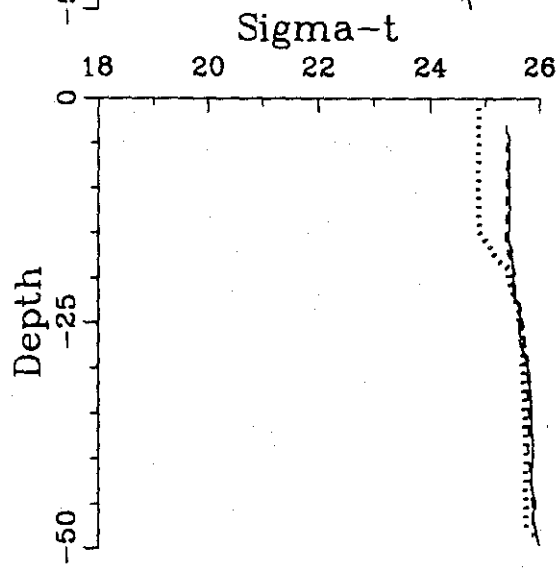
Depth	Temp	Salinity	Sigma-t	Oxygen
3	9.20	32.800	25.387	
6	9.19	32.802	25.391	
8	9.20	32.802	25.389	
9	9.19	32.801	25.390	
12	9.18	32.801	25.391	
16	9.16	32.791	25.387	
20	8.62	32.898	25.554	7.07
25	7.50	32.878	25.702	
32	6.86	32.898	25.806	
36	6.70	32.911	25.837	
42	6.54	32.898	25.848	
52	6.32	32.953	25.919	
60	6.17	32.995	25.971	
68	6.07	33.052	26.028	6.40
73	6.07	33.052	26.028	6.39

Sta 89 Depth 54 M Date 5/17/87
Lat 39 45.0N Lon 73 5.1W Time 2254

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.62	32.213	24.863	6.70
3	9.59	32.216	24.870	
6	9.60	32.213	24.866	
7	9.58	32.215	24.871	
10	9.59	32.214	24.868	
14	9.56	32.223	24.880	
15	9.51	32.240	24.901	
18	8.97	32.529	25.212	
20	7.40	32.531	25.444	7.40
24	6.60	32.647	25.642	
25	6.42	32.624	25.647	
28	6.41	32.704	25.712	
30	6.27	32.668	25.701	
34	6.16	32.690	25.732	
35	6.11	32.691	25.739	
42	6.08	32.711	25.759	
46	6.08	32.713	25.760	
48	6.08	32.716	25.763	6.79
54	6.08	32.716	25.763	6.65







Sta 90 Depth 77 M Date 5/18/87
Lat 39 49.5N Lon 73 1.5W Time 6

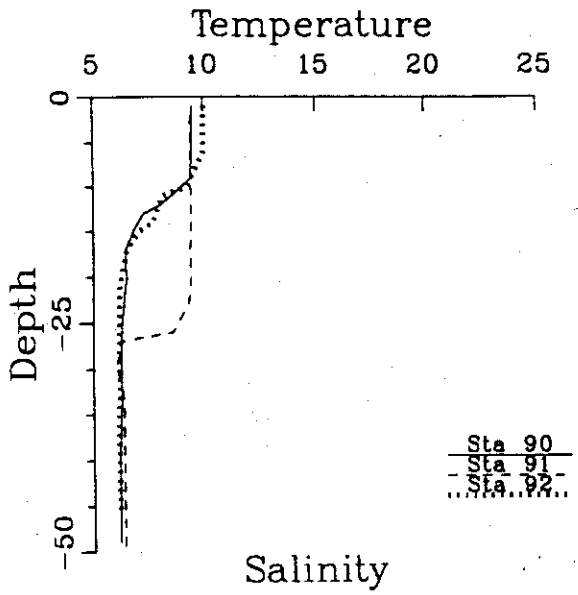
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.53	32.585	25.167	6.96
3	9.50	32.602	25.185	
6	9.49	32.606	25.190	
8	9.44	32.617	25.206	
12	8.07	32.682	25.467	
15	6.81	32.684	25.644	
20	6.52	32.726	25.715	7.60
25	6.31	32.760	25.768	
30	6.29	32.783	25.789	
35	6.24	32.789	25.800	
42	6.19	32.785	25.803	
51	6.18	32.784	25.804	
60	6.17	32.784	25.805	
70	6.17	32.784	25.805	
72	6.17	32.785	25.806	6.66
77	6.17	32.785	25.806	6.65

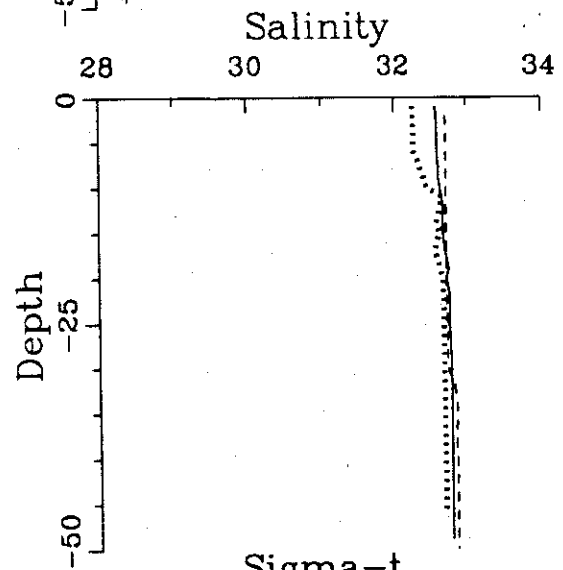
Sta 91 Depth 56 M Date 5/18/87
Lat 39 52.4N Lon 72 57.9W Time 106

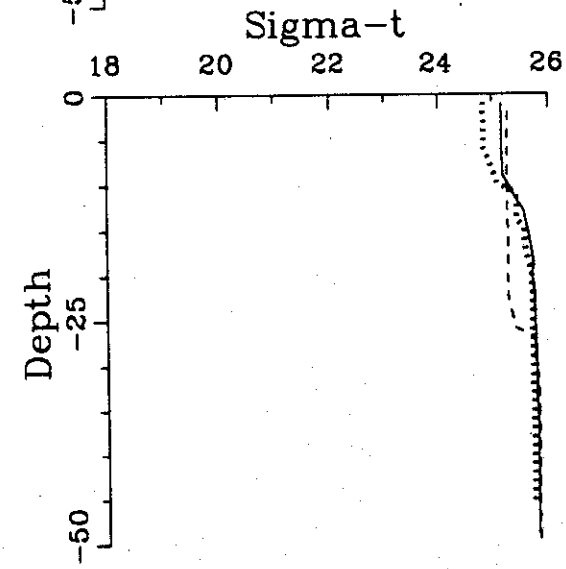
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.45	32.720	25.285	6.90
3	9.44	32.724	25.290	
6	9.44	32.724	25.290	
7	9.44	32.725	25.291	
10	9.44	32.725	25.291	
12	9.44	32.725	25.291	
16	9.42	32.727	25.295	
17	9.39	32.728	25.301	
20	9.43	32.724	25.291	7.00
23	9.33	32.727	25.310	
26	8.60	32.736	25.430	
27	6.23	32.734	25.758	
30	6.08	32.733	25.776	
32	6.33	32.828	25.819	
36	6.38	32.851	25.831	
40	6.38	32.850	25.830	
45	6.38	32.850	25.830	
50	6.39	32.855	25.833	
51	6.39	32.856	25.834	6.78
56	6.39	32.856	25.834	6.71

Sta 92 Depth 51 M Date 5/80/87
Lat 39 59.5N Lon 73 8.4W Time 2600

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.04	32.267	24.836	6.81
4	10.00	32.280	24.853	
6	10.01	32.276	24.848	
7	9.82	32.335	24.925	
10	9.24	32.456	25.113	
14	7.71	32.593	25.449	
15	7.07	32.640	25.575	
17	6.54	32.571	25.590	
20	6.27	32.675	25.707	7.49
23	6.18	32.680	25.722	
26	6.18	32.681	25.723	
27	6.18	32.681	25.723	
32	6.17	32.684	25.726	
33	6.17	32.686	25.728	
36	6.16	32.686	25.729	
40	6.17	32.686	25.728	
46	6.17	32.689	25.730	7.04
51	6.17	32.689	25.730	7.07







Sta 93 Depth 79 M Date 5/18/87
Lat 39 55.6N Lon 73 11.4W Time 318

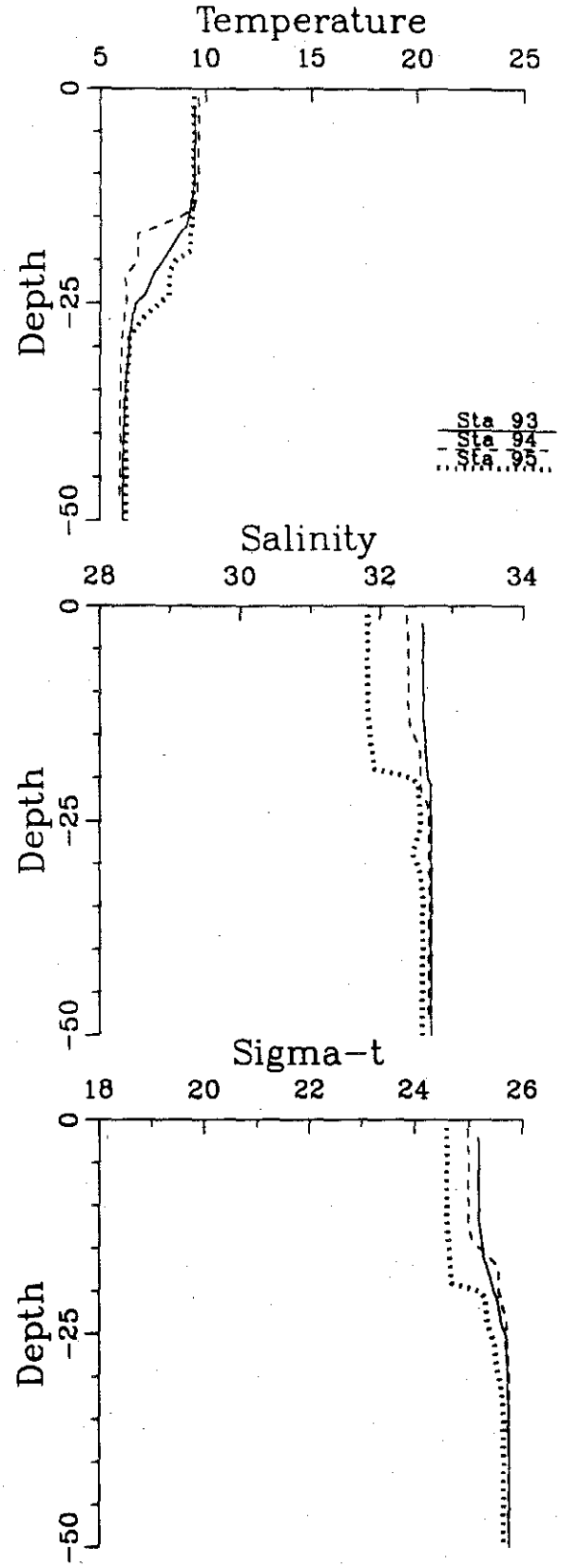
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.49	32.605	25.189	7.04
3	9.48	32.609	25.194	
6	9.48	32.608	25.193	
7	9.48	32.610	25.194	
12	9.42	32.620	25.212	
16	9.08	32.649	25.288	
20	7.96	32.674	25.477	7.50
25	6.69	32.726	25.693	
32	6.35	32.724	25.735	
35	6.21	32.724	25.753	
40	6.13	32.719	25.759	
50	6.10	32.731	25.772	
60	6.09	32.731	25.773	
70	6.09	32.731	25.773	
74	6.09	32.732	25.774	6.68
79	6.08	32.732	25.775	6.68

Sta 94 Depth 52 M Date 5/18/87
Lat 39 52.7N Lon 73 14.3W Time 442

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.70	32.391	24.988	6.82
4	9.68	32.396	24.995	
6	9.67	32.400	25.000	
7	9.66	32.403	25.004	
10	9.65	32.405	25.007	
12	9.63	32.412	25.016	
15	8.77	32.487	25.210	
17	6.80	32.583	25.566	
20	6.78	32.579	25.565	4.70
22	6.16	32.597	25.659	
25	6.24	32.692	25.724	
28	6.11	32.690	25.738	
32	5.99	32.696	25.758	
33	5.98	32.696	25.759	
35	5.98	32.697	25.760	
41	5.97	32.698	25.762	
46	5.97	32.699	25.763	
48	5.97	32.700	25.763	4.19
52	5.97	32.700	25.763	4.19

Sta 95 Depth 50 M Date 5/18/87
Lat 39 57.9N Lon 73 25.7W Time 618

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.44	31.828	24.591	6.53
4	9.42	31.826	24.593	
6	9.42	31.826	24.593	
7	9.42	31.827	24.594	
10	9.42	31.830	24.596	
13	9.39	31.843	24.611	
16	9.32	31.877	24.649	
17	9.29	31.902	24.673	
20	8.58	32.460	25.218	7.03
24	8.25	32.567	25.351	
26	7.33	32.576	25.489	
28	6.68	32.493	25.511	
31	6.40	32.575	25.611	
34	6.27	32.603	25.650	
35	6.26	32.607	25.654	
40	6.25	32.611	25.659	
43	6.24	32.614	25.662	7.19
50	6.24	32.614	25.662	7.10



Sta 96 Depth 67 M Date 5/18/87
Lat 39 59.9N Lon 73 23.7W Time 706

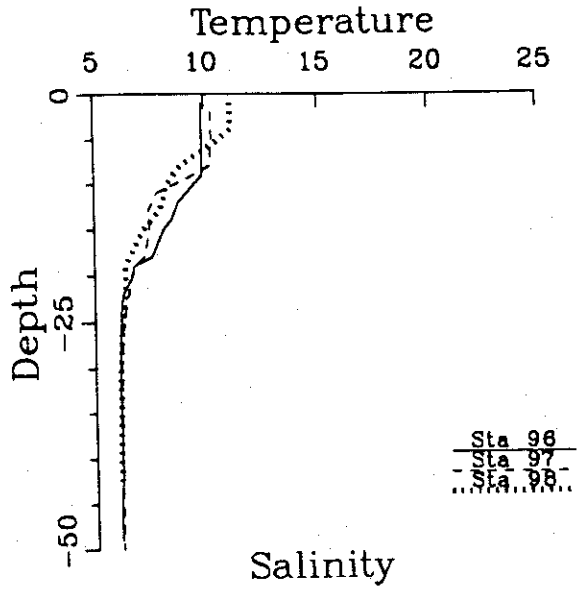
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.90	31.732	24.443	6.63
4	9.90	31.733	24.443	
6	9.90	31.733	24.443	
7	9.89	31.734	24.446	
12	8.81	32.249	25.018	
15	8.14	32.464	25.286	
20	6.74	32.487	25.498	7.19
26	6.16	32.513	25.593	
30	6.12	32.542	25.620	
36	6.14	32.585	25.652	
40	6.16	32.606	25.666	
52	6.09	32.680	25.733	
60	6.08	32.685	25.738	
61	6.08	32.688	25.740	6.49
67	6.08	32.688	25.740	6.53

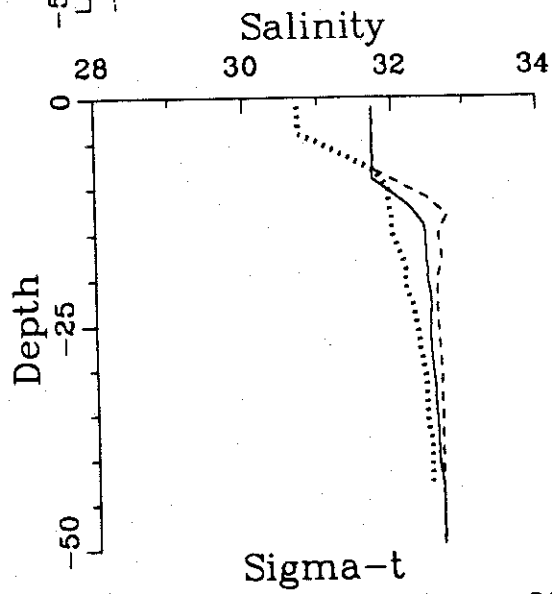
Sta 97 Depth 50 M Date 5/18/87
Lat 40 1.9N Lon 73 21.1W Time 806

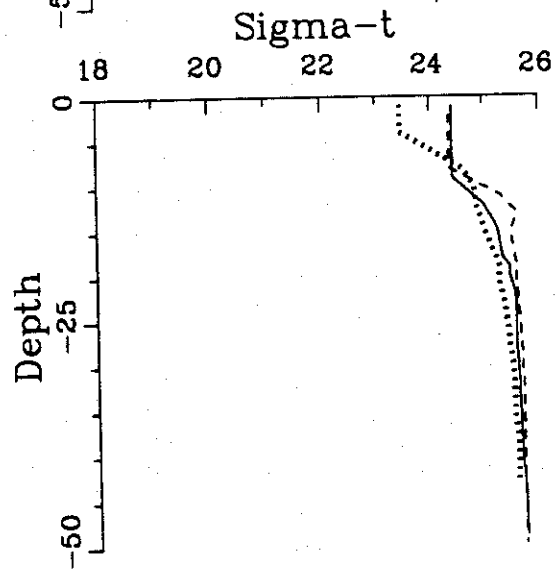
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.32	31.738	24.378	
3	10.32	31.739	24.378	
6	10.31	31.740	24.381	
8	10.25	31.759	24.406	
11	7.86	32.465	25.328	
13	7.44	32.774	25.629	
15	7.50	32.644	25.519	
18	7.29	32.699	25.591	
20	6.70	32.618	25.607	
22	6.55	32.623	25.630	
26	6.25	32.634	25.677	
28	6.21	32.650	25.694	
30	6.20	32.657	25.701	
33	6.17	32.664	25.710	
35	6.17	32.667	25.713	
42	6.17	32.668	25.714	
45	6.17	32.670	25.715	
50	6.17	32.670	25.715	

Sta 98 Depth 43 M Date 5/18/87
Lat 40 7.4N Lon 73 31.5W Time 930

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.16	30.734	23.455	6.55
4	11.16	30.749	23.467	
5	10.68	31.017	23.757	
8	8.90	31.750	24.615	
10	8.29	31.946	24.859	
12	8.12	31.956	24.892	
15	7.23	32.000	25.051	
18	6.59	32.152	25.254	
20	6.38	32.179	25.302	6.85
23	6.31	32.278	25.389	
26	6.22	32.342	25.451	
28	6.19	32.368	25.475	
31	6.13	32.437	25.537	
34	6.13	32.447	25.544	
36	6.13	32.451	25.548	
38	6.10	32.506	25.595	6.44
43	6.10	32.506	25.595	6.41







Sta 99 Depth 64 M Date 5/18/87
Lat 40 5.4N Lon 73 33.4W Time 1012

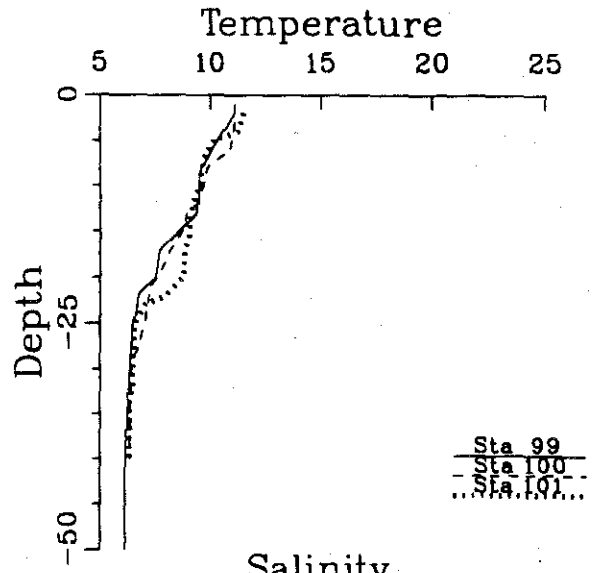
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.11	30.773	23.494	6.55
4	10.61	31.176	23.892	
5	10.32	31.446	24.151	
8	9.61	31.925	24.640	
11	9.47	31.915	24.654	
16	8.17	32.103	24.999	
20	7.50	32.041	25.046	6.86
25	6.47	32.207	25.313	
30	6.35	32.277	25.383	
36	6.25	32.370	25.469	
42	6.13	32.483	25.573	
50	6.13	32.619	25.680	
57	6.13	32.647	25.702	6.71
64	6.13	32.647	25.702	6.72

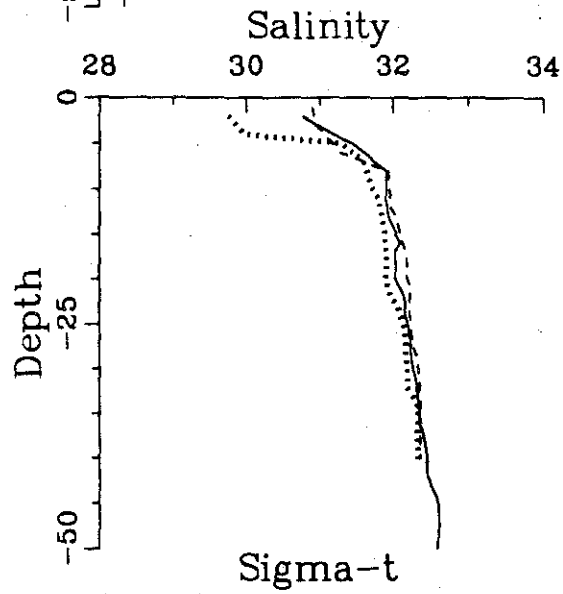
Sta 100 Depth 40 M Date 5/18/87
Lat 40 3.9N Lon 73 36.0W Time 1112

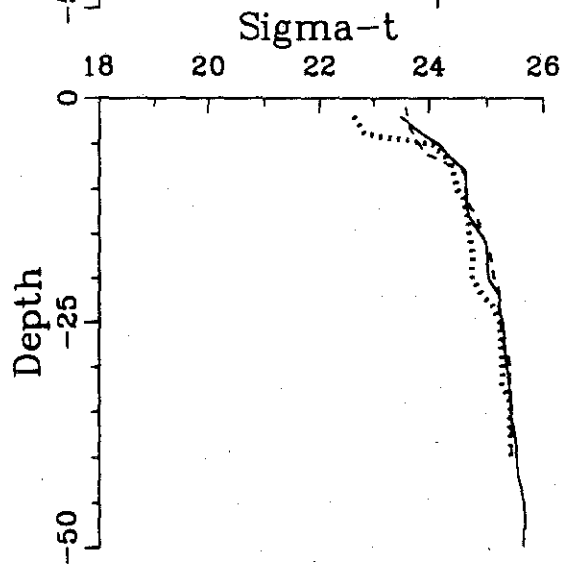
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.14	30.896	23.584	
3	11.10	30.945	23.629	
6	10.94	31.284	23.920	
8	9.88	31.948	24.614	
10	9.68	31.958	24.654	
12	9.35	31.987	24.730	
13	8.91	32.043	24.842	
15	8.71	32.102	24.918	
17	8.20	32.188	25.062	
20	7.61	32.200	25.155	
21	7.28	32.237	25.230	
23	7.16	32.225	25.237	
26	6.91	32.251	25.291	
28	6.67	32.309	25.367	
29	6.46	32.346	25.424	
32	6.38	32.371	25.453	
33	6.37	32.376	25.459	
35	6.36	32.381	25.464	
40	6.36	32.381	25.464	4.19

Sta 101 Depth 39 M Date 5/18/87
Lat 40 9.1N Lon 73 43.8W Time 1224

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.50	29.776	22.654	6.55
4	11.25	29.979	22.854	
5	10.19	31.299	24.058	
7	9.66	31.611	24.387	
10	9.51	31.723	24.498	
11	9.25	31.819	24.614	
14	9.07	31.877	24.688	
16	8.98	31.913	24.730	
17	8.81	31.920	24.761	6.85
20	8.77	31.915	24.763	
22	7.99	31.977	24.927	
23	7.04	32.056	25.120	
25	6.58	32.151	25.255	
27	6.53	32.173	25.279	
29	6.51	32.188	25.293	
32	6.48	32.203	25.309	6.44
34	6.33	32.348	25.442	6.41
40	6.33	32.348	25.442	7.10

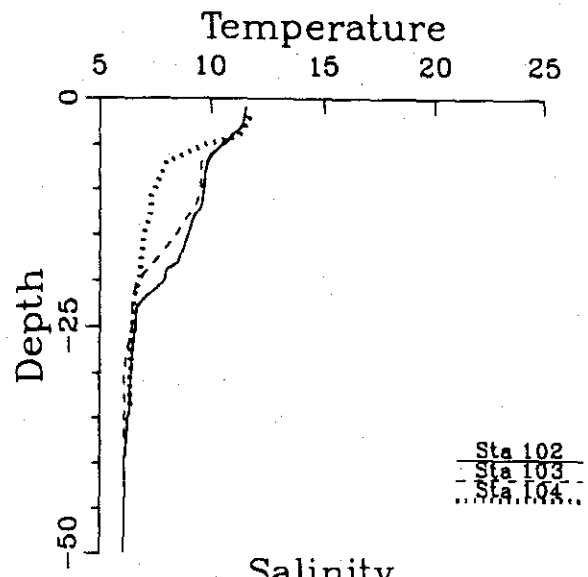






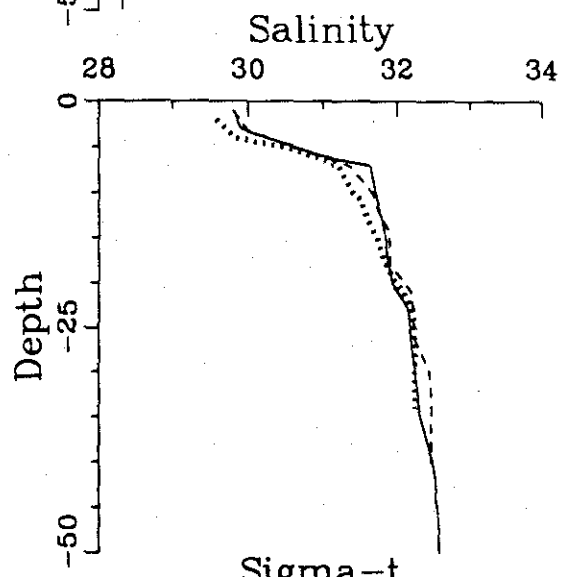
Sta 102 Depth 67 M Date 5/18/87
Lat 40 10.5N Lon 73 42.6W Time 1306

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.49	29.813	22.684	6.82
3	11.35	29.920	22.791	
6	10.07	31.018	23.859	
7	9.80	31.645	24.391	
10	9.70	31.712	24.459	
15	8.97	31.844	24.677	
20	7.95	31.933	24.898	6.78
26	6.58	32.202	25.295	
32	6.39	32.294	25.391	
35	6.31	32.341	25.439	
40	6.14	32.500	25.585	
50	6.11	32.591	25.660	
60	6.11	32.597	25.665	
61	6.11	32.598	25.666	6.51
67	6.11	32.598	25.666	6.52



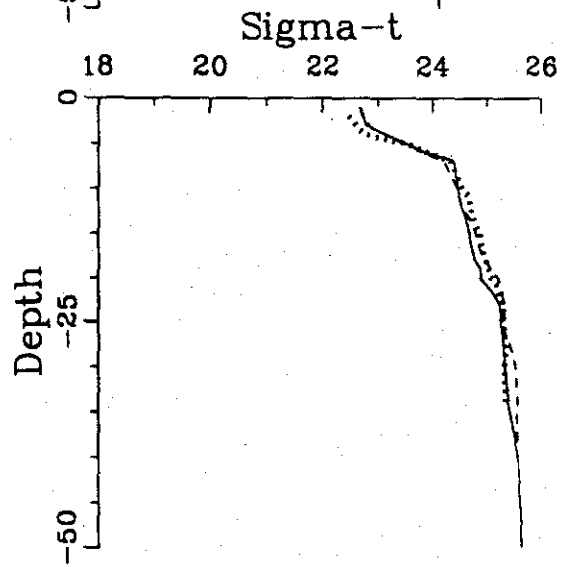
Sta 103 Depth 40 M Date 5/18/87
Lat 40 11.5N Lon 73 41.6W Time 1342

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.52	29.806	22.673	
3	11.37	29.983	22.837	
5	10.54	30.616	23.469	
7	9.55	31.361	24.210	
10	9.55	31.669	24.450	
12	9.29	31.748	24.553	
14	8.71	31.883	24.747	
15	8.47	31.902	24.798	
18	7.49	31.917	24.950	
20	6.70	32.123	25.217	
21	6.60	32.207	25.296	
23	6.48	32.232	25.331	
26	6.43	32.246	25.349	
28	6.21	32.357	25.464	
30	6.14	32.459	25.553	
32	6.13	32.475	25.566	
33	6.12	32.478	25.570	
40	6.12	32.478	25.570	



Sta 104 Depth 34 M Date 5/18/87
Lat 40 14.0N Lon 73 44.0W Time 1436

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.68	29.598	22.484	
4	11.23	29.825	22.739	
5	9.85	30.519	23.507	
7	8.01	31.218	24.330	
10	7.48	31.400	24.546	
11	7.28	31.531	24.676	
13	7.27	31.604	24.735	
15	6.97	31.732	24.875	
18	6.86	31.855	24.986	
20	6.82	31.989	25.097	
21	6.59	32.102	25.215	
23	6.53	32.223	25.318	
26	6.44	32.250	25.351	
28	6.42	32.257	25.359	
29	6.41	32.256	25.359	
34	6.41	32.256	25.359	



Sta 105 Depth 70 M Date 5/18/87
Lat 40 13.4N Lon 73 46.0W Time 1512

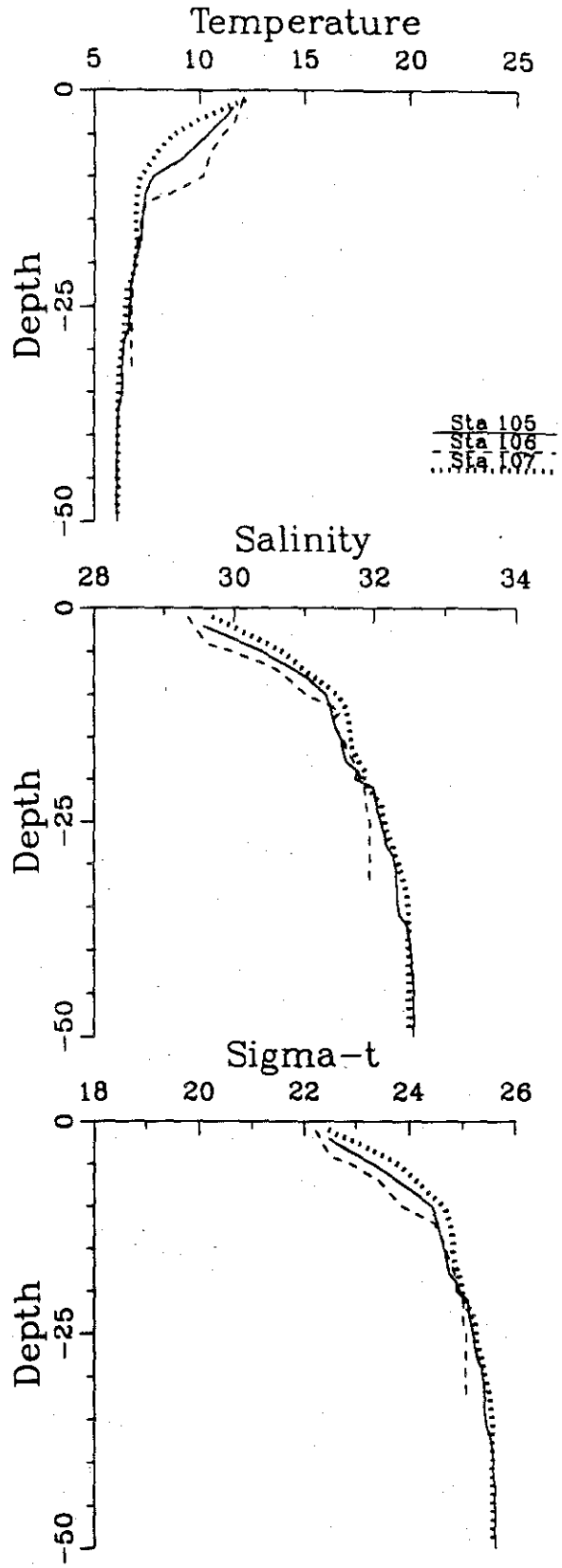
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.60	29.564	22.472	7.10
3	11.23	29.836	22.747	
5	10.36	30.387	23.321	
8	9.14	31.038	24.022	
10	7.79	31.316	24.438	
15	7.32	31.522	24.664	
20	6.93	31.737	24.884	6.84
26	6.70	32.134	25.226	
31	6.37	32.318	25.413	
36	6.30	32.363	25.457	
42	6.11	32.532	25.614	
50	6.10	32.562	25.639	
60	6.10	32.559	25.636	
63	6.10	32.562	25.639	6.34
70	6.10	32.562	25.639	6.38

Sta 106 Depth 32 M Date 5/18/87
Lat 40 12.6N Lon 73 47.8W Time 1642

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.08	29.344	22.216	
4	11.56	29.591	22.500	
5	11.10	29.999	22.896	
7	10.54	30.587	23.447	
10	10.14	31.031	23.858	
12	8.62	31.525	24.481	
13	7.40	31.400	24.557	
15	7.25	31.535	24.683	
18	7.06	31.716	24.851	
20	6.92	31.817	24.948	
21	6.86	31.870	24.998	
24	6.82	31.900	25.027	
25	6.78	31.947	25.069	
32	6.78	31.947	25.069	

Sta 107 Depth 63 M Date 5/18/87
Lat 40 17.1N Lon 73 47.5W Time 1742

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.17	29.696	22.472	6.91
3	10.20	30.193	23.197	
5	8.79	30.677	23.794	
7	8.05	30.971	24.131	
10	7.22	31.489	24.651	
16	6.97	31.677	24.832	
20	6.98	31.868	24.980	6.47
26	6.48	32.170	25.283	
31	6.27	32.389	25.481	
35	6.15	32.486	25.573	
42	6.14	32.487	25.575	
52	6.13	32.500	25.586	
56	6.12	32.503	25.590	6.17
63	6.12	32.503	25.590	6.13



Sta 108 Depth 27 M Date 5/18/87
Lat 40 18.1N Lon 73 40.3W Time 1918

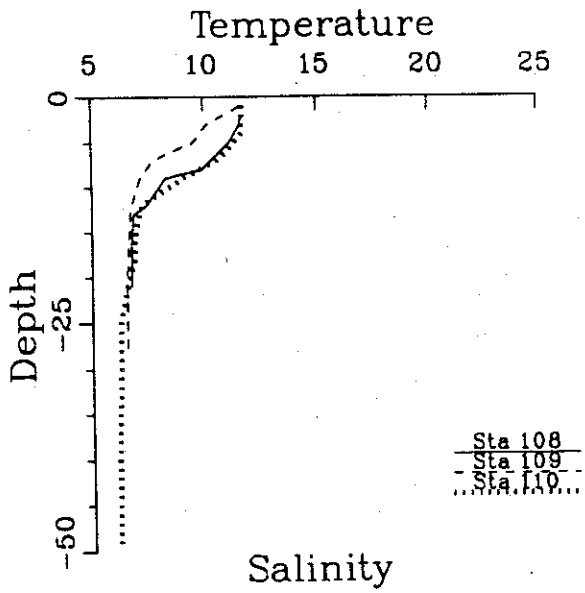
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.65	29.925	22.742	7.10
3	11.63	29.929	22.749	
5	11.14	30.037	22.918	
8	9.93	30.639	23.587	
9	8.29	31.350	24.393	
12	7.44	31.897	24.941	
13	6.88	31.836	24.968	6.84
15	6.79	31.856	24.996	
17	6.76	31.868	25.009	
20	6.76	31.874	25.014	
21	6.76	31.874	25.014	

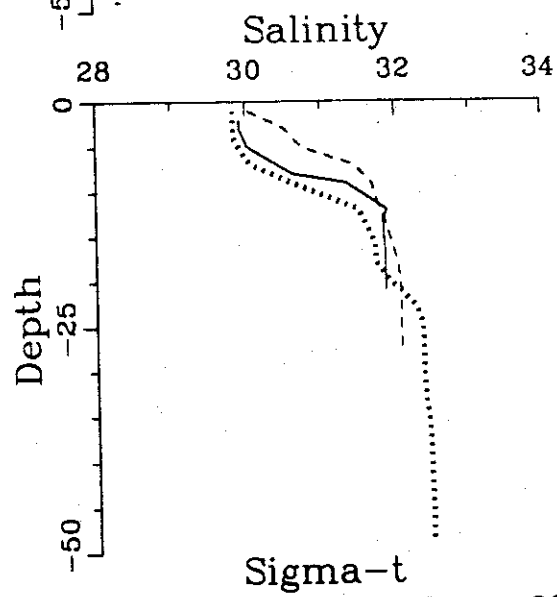
Sta 109 Depth 28 M Date 5/18/87
Lat 40 18.2N Lon 73 43.4W Time 2000

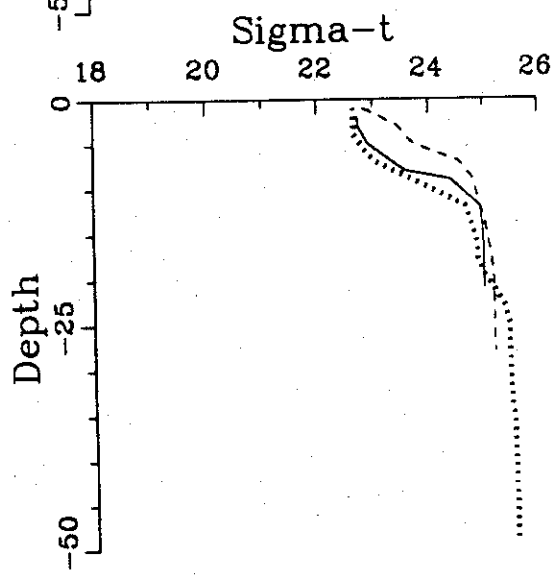
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.61	30.050	22.846	
3	10.17	30.535	23.468	
5	9.56	30.755	23.737	
7	7.74	31.456	24.554	
9	7.17	31.694	24.819	
12	6.78	31.793	24.948	
13	6.71	31.864	25.013	
16	6.64	31.974	25.108	
18	6.60	32.041	25.166	
20	6.57	32.072	25.194	
21	6.57	32.076	25.197	
23	6.57	32.079	25.200	
28	6.56	32.080	25.202	

Sta 110 Depth 58 M Date 5/18/87
Lat 40 18.2N Lon 73 47.4W Time 2036

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.71	29.835	22.662	
4	11.67	29.845	22.677	
6	11.03	29.987	22.898	
7	10.60	30.090	23.051	
12	7.23	31.512	24.668	
14	7.04	31.635	24.790	
16	6.91	31.737	24.887	
18	6.89	31.749	24.899	
20	6.68	31.925	25.064	
23	6.41	32.290	25.386	
25	6.27	32.368	25.465	
28	6.26	32.371	25.468	
30	6.26	32.373	25.470	
34	6.22	32.409	25.503	
35	6.19	32.435	25.528	
42	6.16	32.462	25.553	
45	6.14	32.475	25.565	
52	6.14	32.481	25.570	
58	6.14	32.481	25.570	5.98







Sta 111 Depth 24 M Date 5/18/87
Lat 40 18.2N Lon 73 52.1W Time 2130

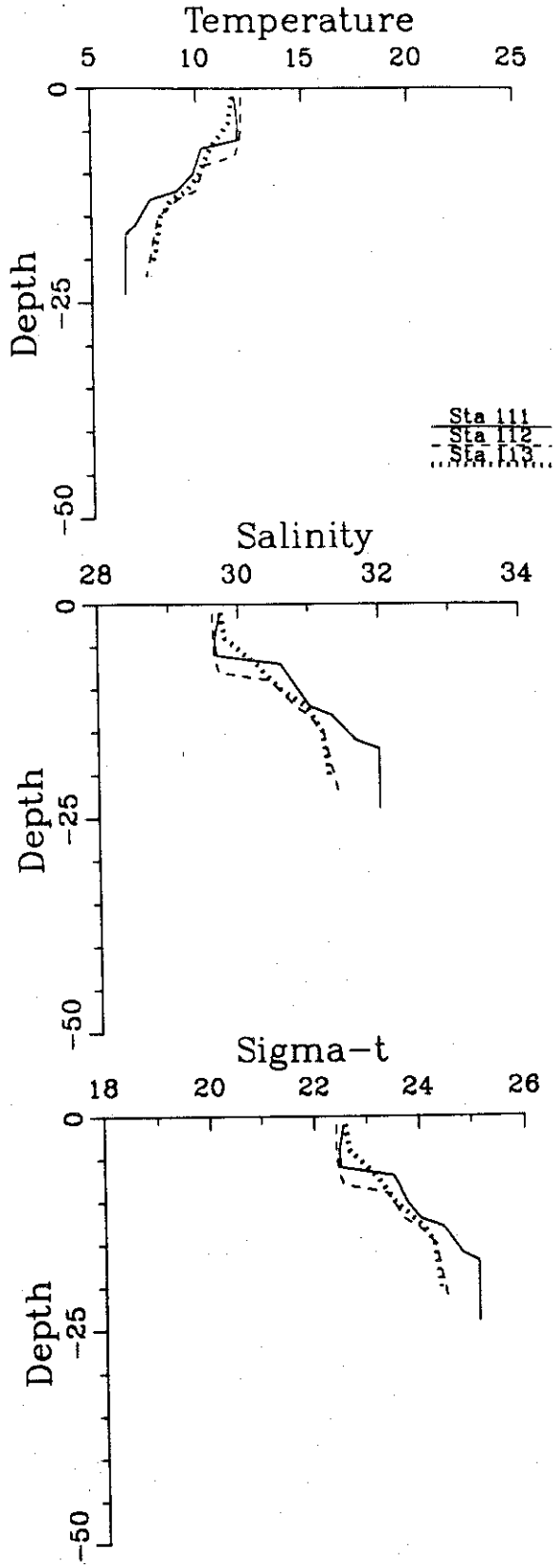
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.85	29.740	22.564	
4	11.99	29.668	22.483	
6	11.95	29.691	22.508	
7	10.25	30.612	23.514	
10	9.85	30.856	23.769	
12	9.06	31.032	24.030	
13	7.77	31.338	24.458	
16	7.08	31.681	24.820	
17	6.61	32.012	25.142	
20	6.60	32.006	25.138	
24	6.60	32.006	25.138	

Sta 112 Depth 22 M Date 5/18/87
Lat 40 18.2N Lon 73 53.4W Time 2154

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.17	29.641	22.429	
4	12.16	29.643	22.433	
6	12.09	29.659	22.458	
8	11.82	29.730	22.561	
9	10.37	30.477	23.390	
12	9.97	30.817	23.719	
13	9.10	31.002	24.001	
15	8.14	31.214	24.308	
22	7.57	31.425	24.554	

Sta 113 Depth 21 M Date 5/18/87
Lat 40 18.2N Lon 73 55.7W Time 2236

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.70	29.754	22.601	
4	11.55	29.812	22.673	
5	11.25	29.966	22.844	
7	10.65	30.261	23.175	
10	10.13	30.611	23.533	
12	9.55	30.966	23.903	
13	8.78	31.053	24.089	
15	8.26	31.203	24.283	
20	7.95	31.294	24.398	



Sta 114 Depth 17 M Date 5/18/87
Lat 40 18.2N Lon 73 56.9W Time 2312

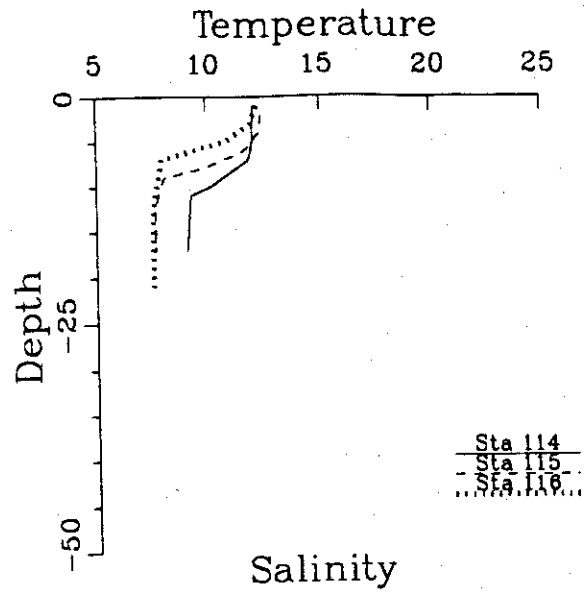
Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.10	29.647	22.447	
4	12.09	29.643	22.445	
5	12.09	29.641	22.444	
7	11.90	29.751	22.563	
10	10.23	30.457	23.397	
11	9.31	30.838	23.840	
17	9.16	30.899	23.911	

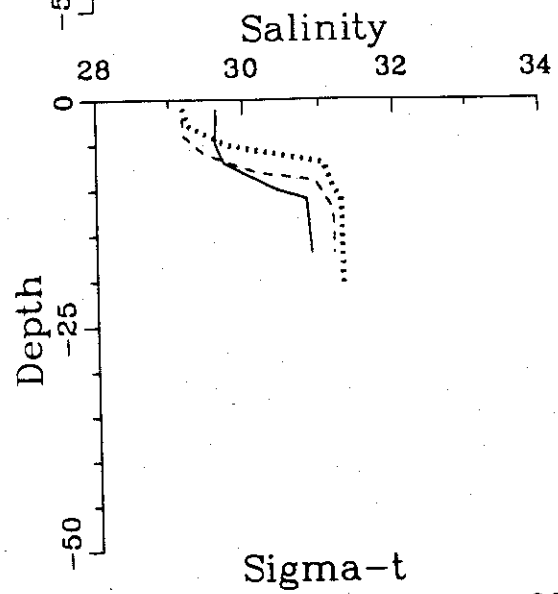
Sta 115 Depth 21 M Date 5/19/87
Lat 40 10.1N Lon 73 58.5W Time 24

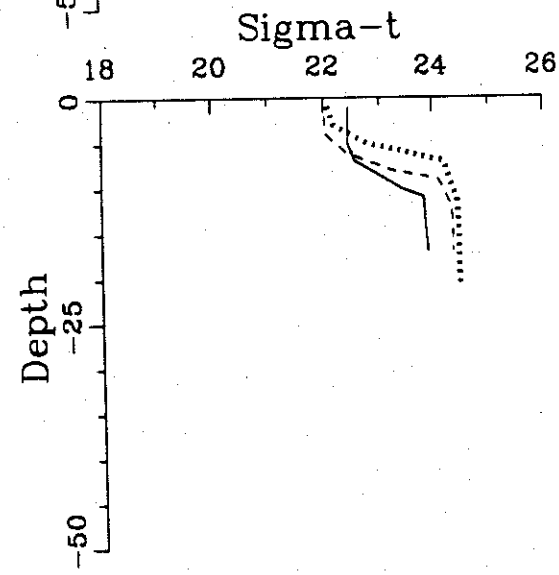
Depth	Temp	Salinity	Sigma-t	Oxygen
2	12.48	29.195	22.028	
4	12.37	29.200	22.052	
6	11.71	29.489	22.395	
8	9.86	30.171	23.235	
9	8.10	30.948	24.106	
12	7.73	31.183	24.342	
14	7.71	31.200	24.358	
17	7.71	31.200	24.358	

Sta 116 Depth 21 M Date 5/19/87
Lat 40 10.1N Lon 73 56.6W Time 112

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.25	29.196	22.071	
3	11.98	29.291	22.193	
5	10.85	29.787	22.774	
7	7.98	31.057	24.208	
10	7.77	31.208	24.356	
11	7.67	31.293	24.436	
13	7.61	31.307	24.456	
15	7.59	31.305	24.457	
21	7.59	31.316	24.465	







Sta 117 Depth 21 M Date 5/19/87
Lat 40 10.0N Lon 73 54.0W Time 148

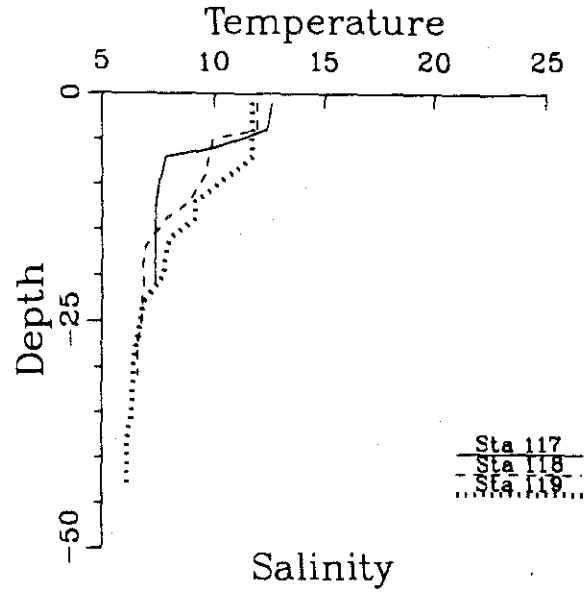
Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.58	29.037	21.888	
4	12.36	29.141	22.009	
6	10.02	30.297	23.307	
7	7.83	31.154	24.305	
10	7.55	31.372	24.515	
12	7.41	31.451	24.596	
13	7.36	31.550	24.680	
21	7.36	31.590	24.712	

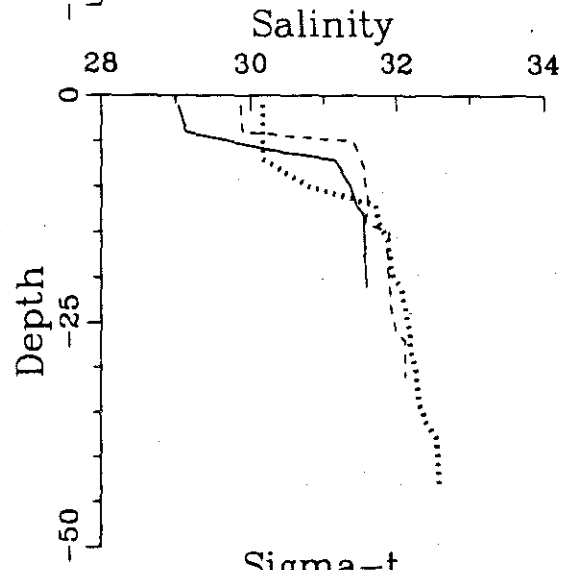
Sta 118 Depth 32 M Date 5/19/87
Lat 40 10.0N Lon 73 49.5W Time 242

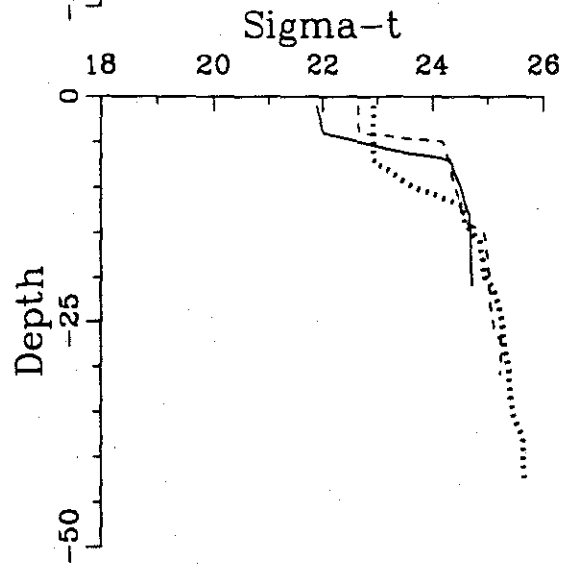
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.92	29.860	22.644	
4	11.89	29.878	22.663	
5	9.95	31.411	24.185	
8	9.66	31.556	24.344	
9	9.57	31.562	24.363	
12	8.91	31.614	24.507	
14	7.77	31.581	24.648	
15	7.54	31.905	24.934	
17	6.90	31.868	24.991	
19	6.86	31.889	25.013	
21	6.85	31.908	25.029	
23	6.82	31.927	25.048	
26	6.73	31.996	25.114	
27	6.59	32.134	25.240	
31	6.59	32.134	25.240	

Sta 119 Depth 48 M Date 5/19/87
Lat 40 10.0N Lon 73 43.1W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.68	30.163	22.921	
3	11.68	30.163	22.921	
6	11.68	30.163	22.921	
7	11.68	30.162	22.920	
10	10.19	30.806	23.675	
12	9.13	31.706	24.545	
16	8.04	31.889	24.851	
17	7.86	31.894	24.880	
20	7.76	31.959	24.945	
23	6.86	32.122	25.196	
26	6.63	32.183	25.274	
28	6.52	32.205	25.305	
30	6.38	32.264	25.369	
34	6.35	32.319	25.416	
36	6.26	32.406	25.496	
41	6.11	32.576	25.649	
43	6.11	32.586	25.656	







Sta 120 Depth 41 M Date 5/19/87
Lat 40 10.0N Lon 73 36.5W Time 448

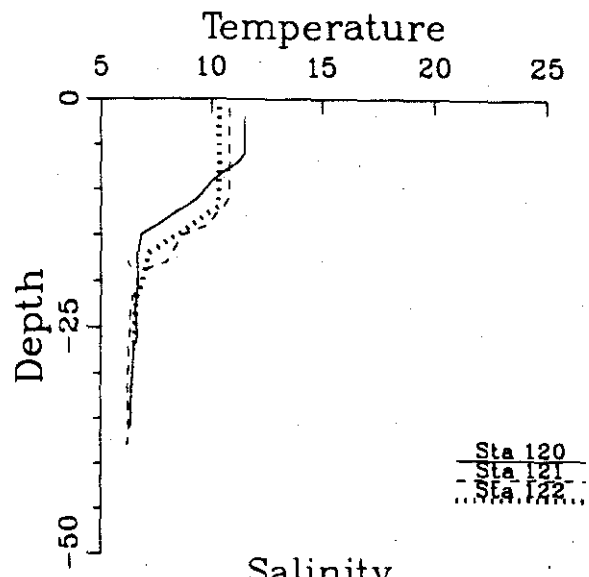
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.50	30.683	23.356	
3	11.50	30.683	23.356	
6	11.50	30.682	23.355	
7	11.19	30.916	23.591	
9	10.09	31.680	24.371	
11	9.39	31.842	24.610	
14	7.54	32.007	25.014	
15	6.83	31.953	25.067	
17	6.67	31.934	25.073	
19	6.67	31.957	25.091	
22	6.64	31.981	25.114	
23	6.59	32.004	25.138	
26	6.65	32.043	25.161	
27	6.53	32.075	25.201	
29	6.49	32.108	25.233	
31	6.43	32.214	25.323	
34	6.39	32.254	25.360	
36	6.33	32.299	25.403	

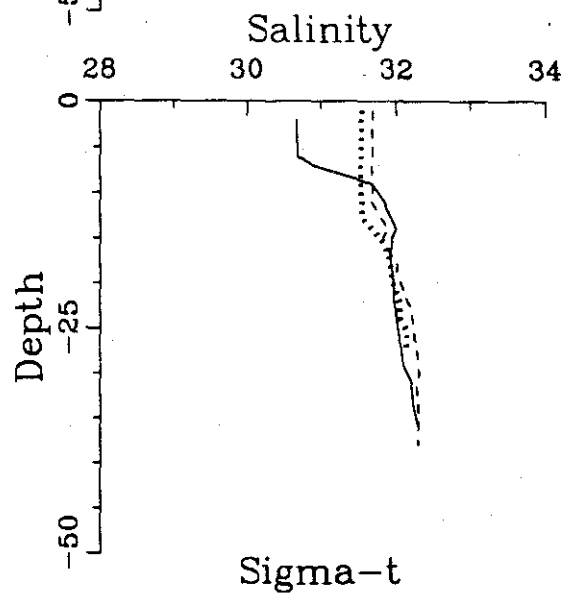
Sta 121 Depth 43 M Date 5/19/87
Lat 40 10.1N Lon 73 30.3W Time 536

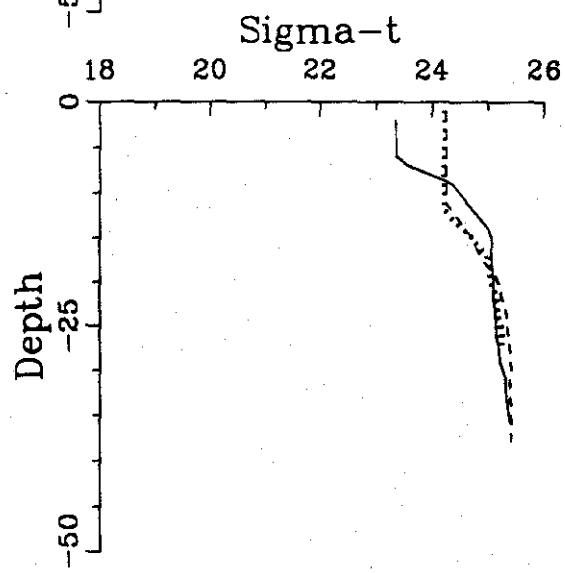
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.82	31.689	24.254	
4	10.82	31.688	24.254	
6	10.82	31.688	24.254	
7	10.82	31.689	24.254	
10	10.80	31.690	24.259	
11	10.79	31.689	24.260	
14	9.86	31.908	24.586	
15	8.67	31.825	24.708	
18	7.99	32.024	24.964	
19	6.74	32.021	25.132	
22	6.46	32.163	25.280	
23	6.37	32.222	25.337	
26	6.31	32.254	25.370	
28	6.27	32.304	25.414	
30	6.26	32.316	25.425	
31	6.25	32.296	25.411	
34	6.25	32.311	25.422	
35	6.25	32.306	25.418	
38	6.23	32.312	25.426	

Sta 122 Depth 33 M Date 5/19/87
Lat 40 14.8N Lon 73 30.3W Time 630

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.35	31.547	24.224	
4	10.35	31.547	24.224	
5	10.35	31.542	24.220	
7	10.35	31.540	24.219	
10	10.35	31.541	24.220	
12	10.28	31.557	24.244	
13	9.65	31.586	24.369	
15	8.48	31.791	24.710	
17	7.17	31.913	24.991	
20	6.90	31.956	25.060	
22	6.61	32.054	25.175	
24	6.59	32.070	25.190	
25	6.55	32.136	25.247	
27	6.56	32.157	25.262	







Sta 123 Depth 30 M Date 5/19/87
Lat 40 20.0N Lon 73 30.3W Time 718

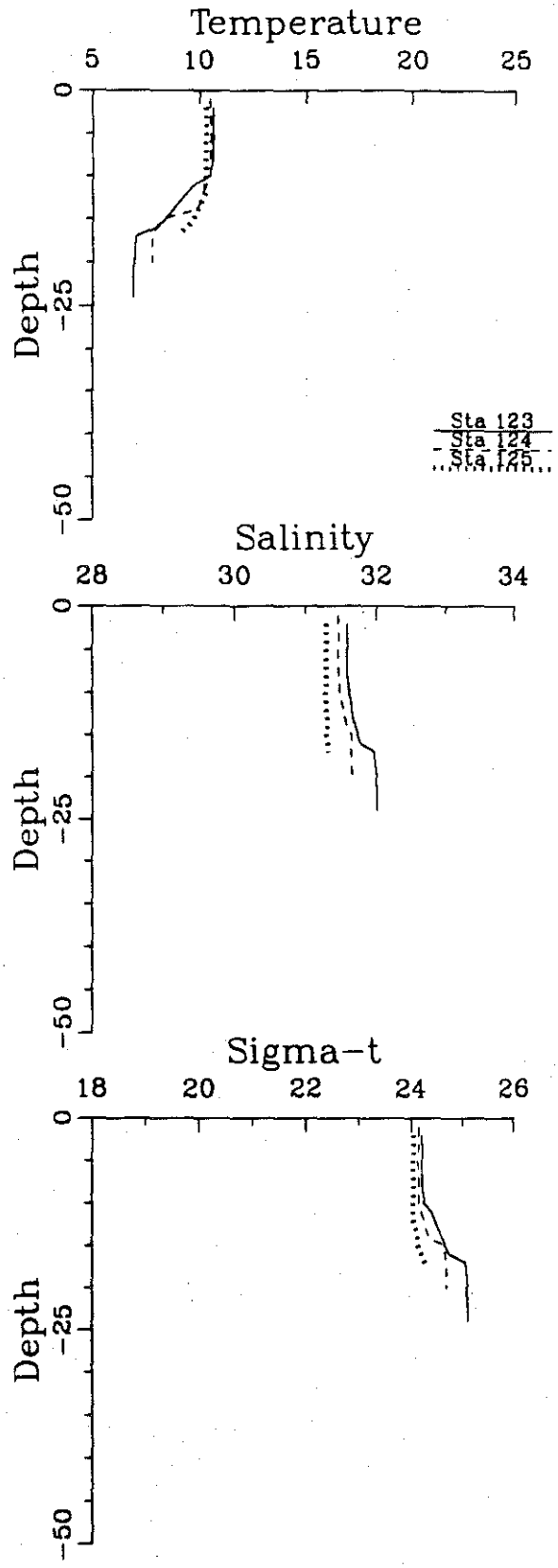
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.63	31.577	24.200	
4	10.62	31.578	24.203	
5	10.61	31.579	24.205	
8	10.61	31.578	24.204	
10	10.44	31.606	24.255	
11	9.77	31.640	24.392	
13	9.06	31.660	24.520	
16	8.06	31.765	24.751	
17	7.02	31.968	25.054	
20	6.93	32.001	25.092	
22	6.92	32.010	25.100	
24	6.91	32.014	25.104	

Sta 124 Depth 26 M Date 5/19/87
Lat 40 25.1N Lon 73 29.8W Time 730

Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.49	31.462	24.135	
4	10.49	31.460	24.133	
5	10.49	31.460	24.133	
8	10.49	31.462	24.135	
10	10.48	31.465	24.139	
11	10.30	31.505	24.200	
14	9.84	31.570	24.326	
15	8.23	31.647	24.634	
17	7.79	31.640	24.691	
20	7.77	31.645	24.698	

Sta 125 Depth 23 M Date 5/19/87
Lat 40 30.0N Lon 73 30.1W Time 918

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.29	31.288	24.033	
4	10.28	31.286	24.033	
6	10.28	31.286	24.033	
7	10.28	31.286	24.033	
10	10.26	31.288	24.038	
12	10.24	31.283	24.037	
13	10.05	31.299	24.081	
15	9.70	31.296	24.136	
17	9.02	31.321	24.262	



Sta 126 Depth 17 M Date 5/19/87
Lat 40 32.5N Lon 73 30.0W Time 948

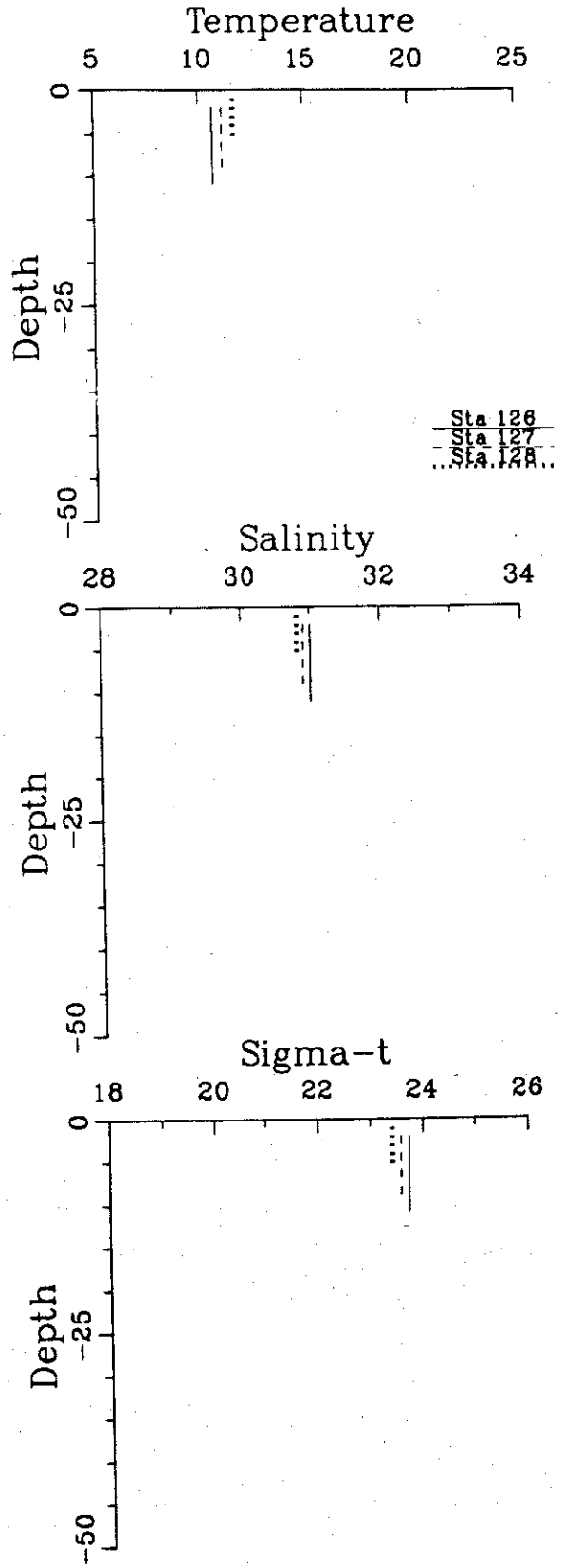
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.67	31.008	23.752	
4	10.68	31.008	23.750	
5	10.67	31.008	23.752	
8	10.68	31.007	23.749	
10	10.68	31.008	23.750	
11	10.66	31.009	23.754	

Sta 127 Depth 14 M Date 5/19/87
Lat 40 33.9N Lon 73 30.0W Time 1018

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.14	30.912	23.596	
3	11.14	30.911	23.596	
5	11.14	30.911	23.596	
8	11.14	30.911	23.596	
9	11.14	30.911	23.596	

Sta 128 Depth 12 M Date 5/19/87
Lat 40 33.6N Lon 73 39.9W Time 1124

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.68	30.816	23.426	
3	11.68	30.816	23.426	
6	11.68	30.815	23.426	



Sta 129 Depth 17 M Date 5/19/87
Lat 40 32.0N Lon 73 40.2W Time 1154

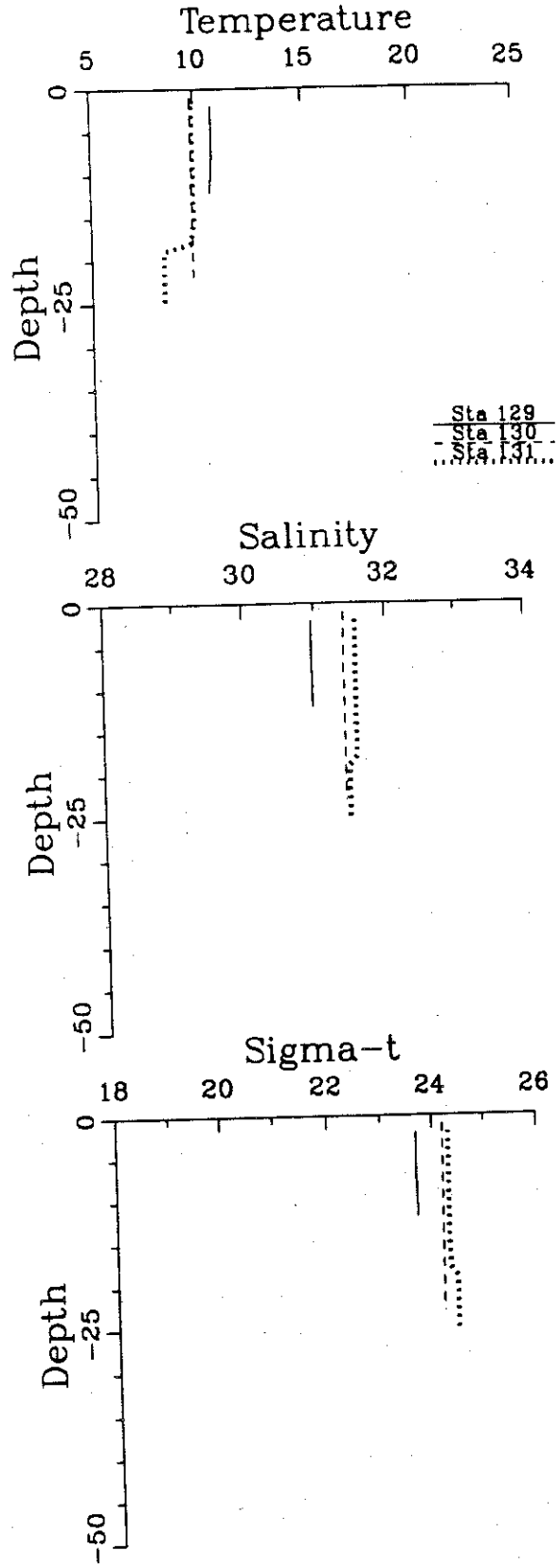
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.84	30.970	23.693	
3	10.85	30.965	23.688	
6	10.84	30.967	23.691	
7	10.83	30.969	23.694	
9	10.81	30.972	23.700	
12	10.74	30.979	23.717	

Sta 130 Depth 23 M Date 5/19/87
Lat 40 29.1N Lon 73 40.3W Time 1624

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.86	31.425	24.210	
4	9.86	31.426	24.211	
5	9.86	31.425	24.210	
7	9.86	31.418	24.205	
10	9.86	31.421	24.207	
11	9.85	31.421	24.209	
14	9.86	31.426	24.211	
15	9.86	31.423	24.209	
18	9.86	31.422	24.208	
23	9.86	31.422	24.208	

Sta 131 Depth 25 M Date 5/19/87
Lat 40 26.3N Lon 73 40.2W Time 1712

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.94	31.582	24.319	
3	9.94	31.582	24.319	
6	9.94	31.582	24.319	
7	9.94	31.581	24.319	
10	9.94	31.582	24.319	
12	9.94	31.582	24.319	
14	9.94	31.580	24.318	
15	9.95	31.582	24.318	
18	9.78	31.582	24.345	
19	8.46	31.477	24.468	
25	8.46	31.477	24.468	



Sta 132 Depth 27 M Date 5/19/87
Lat 40 23.8N Lon 73 40.1W Time 1748

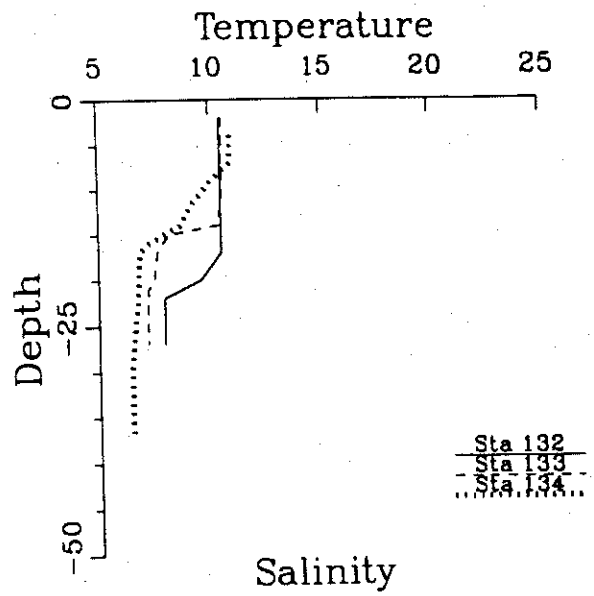
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.47	31.542	24.200	
3	10.47	31.542	24.200	
5	10.47	31.543	24.201	
7	10.47	31.544	24.202	
9	10.48	31.544	24.200	
12	10.48	31.543	24.199	
13	10.48	31.545	24.201	
15	10.48	31.544	24.200	
17	10.47	31.544	24.202	
20	9.59	31.568	24.365	
22	7.92	31.629	24.664	
27	7.92	31.629	24.664	

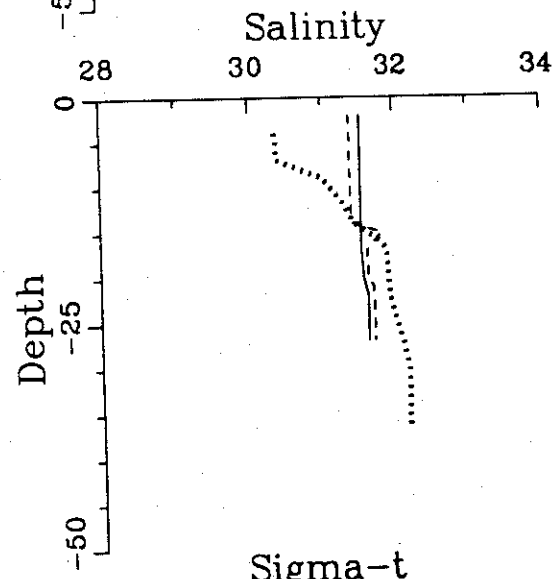
Sta 133 Depth 27 M Date 5/19/87
Lat 40 21.0N Lon 73 40.3W Time 1830

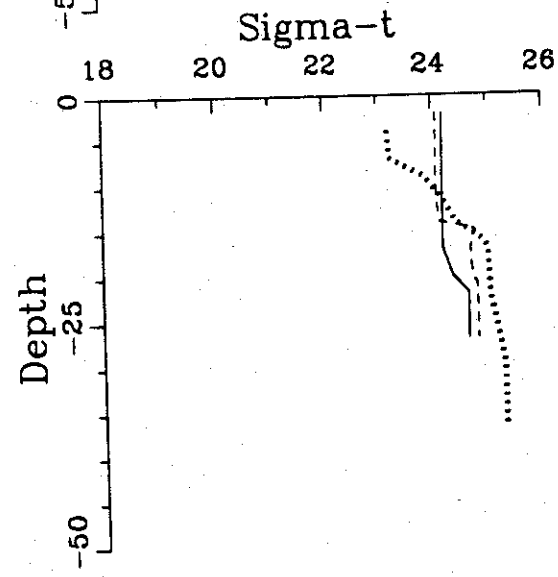
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.54	31.401	24.079	
4	10.54	31.401	24.079	
5	10.54	31.403	24.080	
7	10.53	31.401	24.080	
10	10.52	31.406	24.086	
11	10.49	31.408	24.093	
14	10.37	31.420	24.122	
15	8.12	31.836	24.798	
17	7.61	31.629	24.708	
20	7.47	31.642	24.737	
21	7.20	31.709	24.826	
23	7.16	31.715	24.837	
27	7.16	31.715	24.837	

Sta 134 Depth 37 M Date 5/19/87
Lat 40 19.2N Lon 73 45.5W Time 1930

Depth	Temp	Salinity	Sigma-t	Oxygen
4	10.92	30.363	23.209	
5	10.91	30.376	23.221	
7	10.89	30.392	23.236	
9	10.02	31.014	23.864	
12	9.08	31.314	24.247	
14	8.65	31.446	24.415	
16	7.20	31.814	24.909	
17	6.83	31.899	25.025	
20	6.77	31.921	25.050	
22	6.74	31.939	25.068	
23	6.70	31.963	25.092	
25	6.61	32.032	25.157	
27	6.53	32.106	25.226	
30	6.44	32.189	25.303	
37	6.44	32.189	25.303	







Sta 135 Depth 51 M Date 5/19/87
Lat 40 19.5N Lon 73 47.7W Time 2000

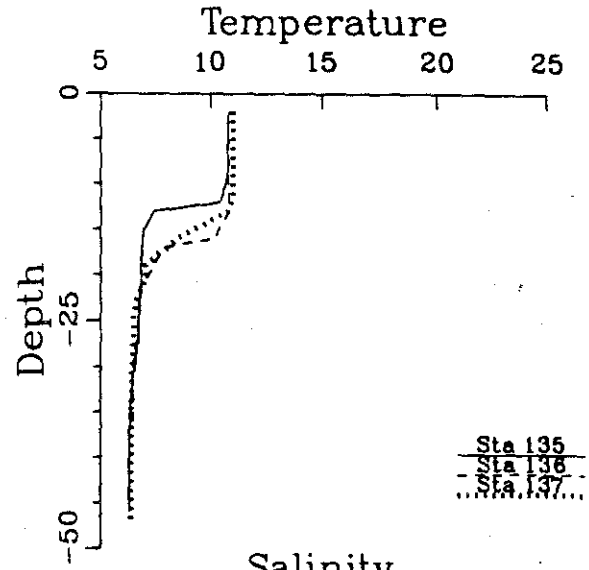
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.82	30.328	23.199	6.59
4	10.78	30.325	23.203	
5	10.78	30.324	23.202	
7	10.78	30.327	23.205	
12	10.44	30.661	23.521	
13	7.48	31.717	24.795	
15	7.03	31.782	24.906	
17	6.92	31.810	24.943	
20	6.89	31.815	24.951	6.18
23	6.83	31.844	24.981	
25	6.80	31.878	25.012	
27	6.75	31.919	25.051	
30	6.60	32.045	25.169	
34	6.38	32.244	25.353	
36	6.35	32.267	25.375	
40	6.32	32.293	25.400	
46	6.32	32.301	25.406	5.64
51	6.32	32.301	25.406	5.67

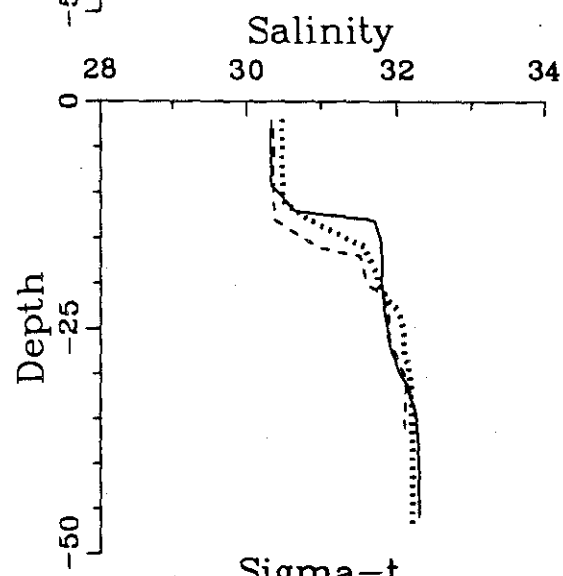
Sta 136 Depth 37 M Date 5/19/87
Lat 40 19.6N Lon 73 49.3W Time 2036

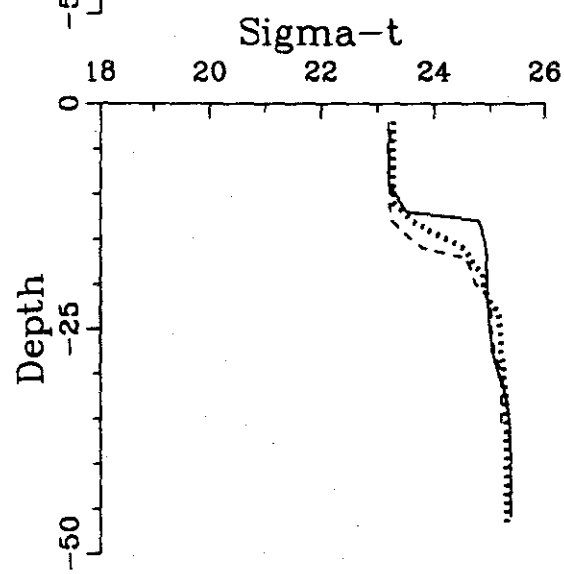
Depth	Temp	Salinity	Sigma-t	Oxygen
3	10.82	30.362	23.225	
6	10.82	30.362	23.225	
8	10.82	30.353	23.218	
9	10.82	30.362	23.225	
11	10.82	30.361	23.224	
13	10.81	30.384	23.244	
16	10.21	30.957	23.789	
17	7.96	31.526	24.578	
20	7.26	31.607	24.738	
21	6.92	31.793	24.929	
23	6.77	31.891	25.026	
26	6.74	31.909	25.044	
27	6.68	31.945	25.080	
30	6.51	32.107	25.229	
31	6.51	32.113	25.234	
36	6.51	32.113	25.234	

Sta 137 Depth 47 M Date 5/19/87
Lat 40 20.3N Lon 73 48.1W Time 2106

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.02	30.481	23.283	6.68
4	11.03	30.480	23.281	
6	11.03	30.481	23.281	
8	11.03	30.481	23.281	
10	11.02	30.485	23.286	
13	10.77	30.839	23.604	
16	8.55	31.576	24.532	
18	7.57	31.681	24.754	
20	7.10	31.761	24.881	6.13
22	6.84	31.893	25.018	
25	6.52	32.083	25.209	
28	6.50	32.102	25.227	
32	6.43	32.194	25.308	
34	6.43	32.200	25.312	
36	6.42	32.204	25.317	
40	6.42	32.206	25.318	
42	6.42	32.208	25.320	5.36
47	6.42	32.208	25.320	5.13







Sta 138 Depth 47 M Date 5/19/87
Lat 40 21.2N Lon 73 48.0W Time 2130

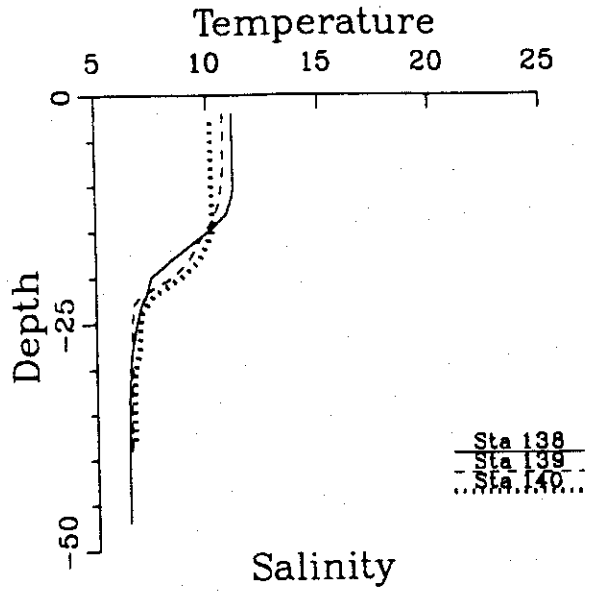
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.13	30.678	23.417	6.55
4	11.13	30.678	23.417	
5	11.13	30.679	23.417	
8	11.13	30.679	23.417	
10	11.13	30.680	23.418	
13	10.83	30.978	23.701	
15	10.04	31.313	24.094	
18	8.39	31.577	24.556	
20	7.46	31.742	24.817	6.06
22	7.24	31.819	24.907	
25	6.81	31.954	25.070	
28	6.60	32.072	25.190	
30	6.50	32.135	25.252	
32	6.47	32.165	25.280	
36	6.44	32.184	25.299	
39	6.43	32.192	25.306	5.44
47	6.43	32.192	25.306	5.40

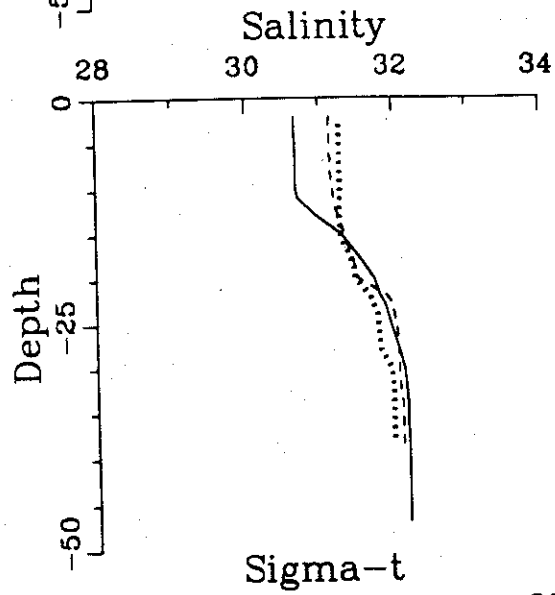
Sta 139 Depth 39 M Date 5/19/87
Lat 40 23.0N Lon 73 47.5W Time 2242

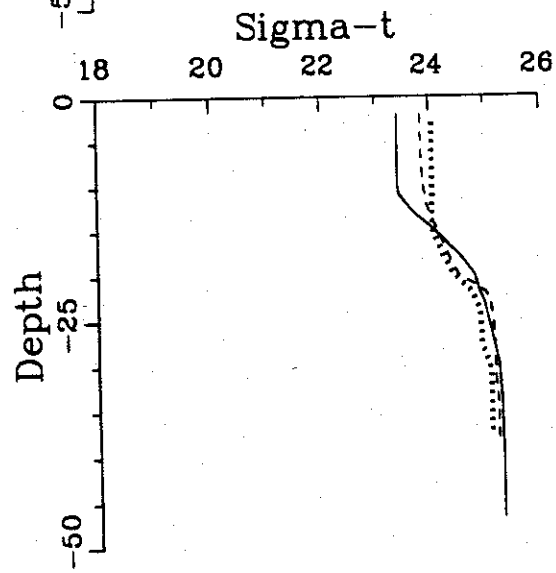
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.73	31.155	23.856	
3	10.74	31.152	23.851	
6	10.71	31.159	23.862	
8	10.69	31.169	23.873	
9	10.67	31.175	23.881	
12	10.51	31.224	23.946	
14	10.17	31.313	24.072	
15	9.86	31.346	24.149	
18	9.19	31.469	24.351	
20	8.40	31.526	24.515	
22	6.98	31.916	25.018	
23	6.68	31.990	25.115	
26	6.60	32.050	25.173	
28	6.59	32.060	25.182	
30	6.58	32.068	25.190	
32	6.57	32.081	25.201	
34	6.54	32.109	25.227	
39	6.54	32.109	25.227	

Sta 140 Depth 38 M Date 5/23/87
Lat 40 24.5N Lon 73 47.4W Time 400

Depth	Temp	Salinity	Sigma-t	Oxygen
3	10.16	31.289	24.055	
6	10.17	31.290	24.054	
7	10.17	31.290	24.054	
10	10.16	31.296	24.061	
12	10.17	31.289	24.054	
13	10.18	31.287	24.050	
15	10.18	31.292	24.054	
18	9.64	31.440	24.257	
19	9.27	31.486	24.352	
20	8.79	31.481	24.421	
22	7.55	31.681	24.757	
24	7.00	31.778	24.907	
26	6.97	31.797	24.926	
28	6.93	31.816	24.946	
30	6.73	31.955	25.081	
32	6.68	31.984	25.111	
38	6.68	31.984	25.111	







Sta 141 Depth 35 M Date 5/20/87
Lat 40 25.0N Lon 73 48.3W Time 12

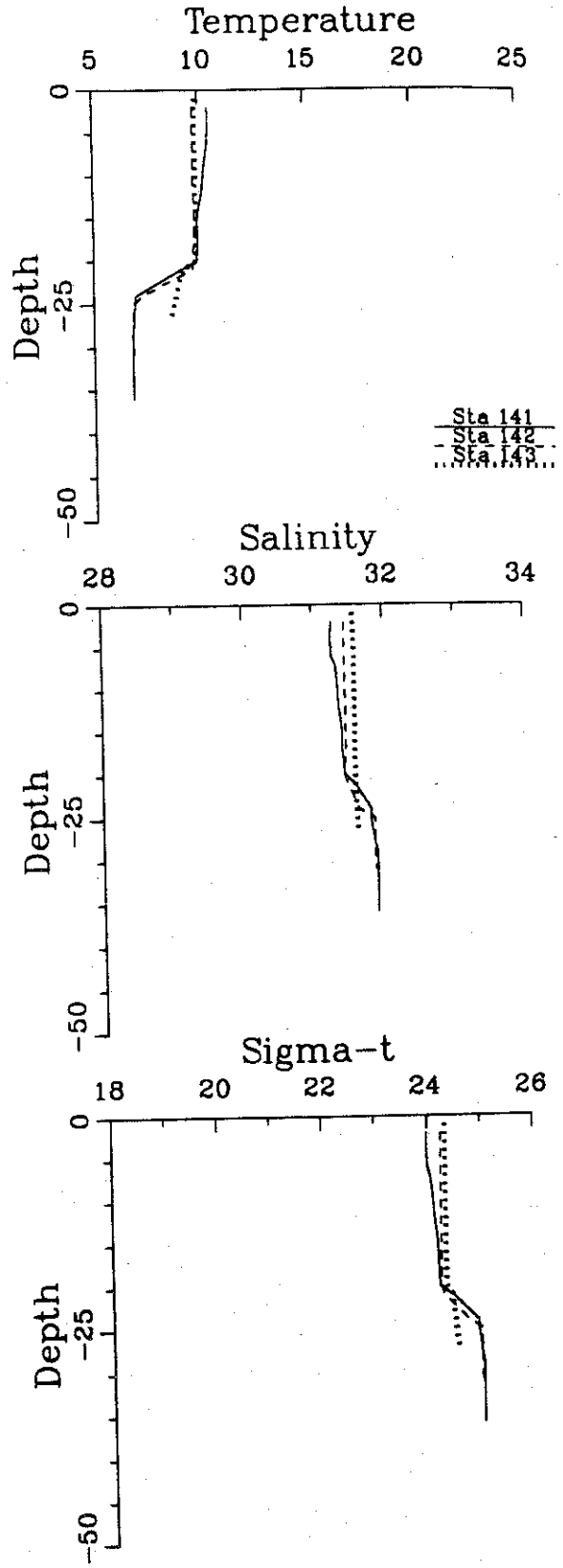
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.46	31.275	23.994	6.55
4	10.46	31.269	23.990	
6	10.45	31.275	23.996	
7	10.37	31.330	24.052	
9	10.28	31.356	24.087	
12	10.15	31.373	24.122	
14	9.97	31.404	24.176	
15	9.92	31.411	24.190	
17	9.91	31.417	24.196	6.06
20	9.90	31.448	24.222	
21	9.16	31.592	24.451	
24	6.97	31.819	24.943	
25	6.94	31.814	24.943	
28	6.85	31.875	25.003	
29	6.81	31.905	25.032	
36	6.81	31.905	25.032	5.44

Sta 142 Depth 31 M Date 5/20/87
Lat 40 25.5N Lon 73 45.6W Time 106

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.74	31.455	24.253	
3	9.76	31.462	24.255	
6	9.75	31.460	24.255	
7	9.76	31.461	24.254	
10	9.76	31.461	24.254	
12	9.77	31.465	24.256	
13	9.77	31.465	24.256	
16	9.78	31.468	24.257	
17	9.78	31.470	24.258	
20	9.71	31.446	24.251	
21	9.69	31.488	24.287	
24	7.30	31.651	24.768	
25	6.84	31.874	25.004	
31	6.84	31.874	25.004	

Sta 143 Depth 27 M Date 5/20/87
Lat 40 23.9N Lon 73 41.2W Time 218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.85	31.580	24.332	
4	9.85	31.591	24.341	
5	9.85	31.592	24.342	
7	9.86	31.591	24.339	
10	9.86	31.593	24.341	
12	9.85	31.593	24.343	
14	9.85	31.594	24.343	
15	9.85	31.592	24.342	
18	9.85	31.593	24.343	
20	9.82	31.596	24.350	
21	9.20	31.597	24.449	
27	8.64	31.631	24.561	



Sta 144 Depth 27 M Date 5/20/87
Lat 40 25.1N Lon 73 41.5W Time 2054

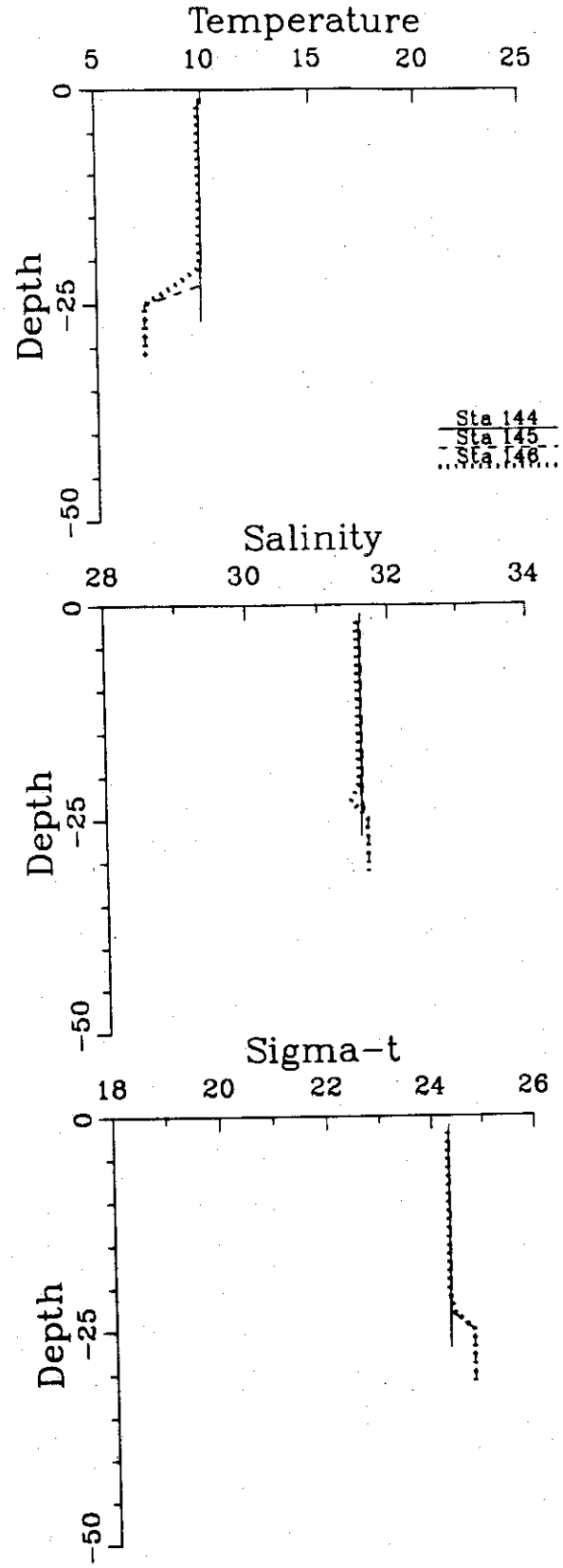
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.90	31.586	24.329	6.55
4	9.89	31.589	24.333	
5	9.90	31.589	24.331	
7	9.90	31.589	24.331	
10	9.90	31.589	24.331	
12	9.90	31.589	24.331	
13	9.90	31.590	24.332	
15	9.90	31.590	24.332	
18	9.90	31.590	24.332	6.06
20	9.89	31.591	24.334	
21	9.87	31.576	24.326	
27	9.87	31.576	24.326	

Sta 145 Depth 35 M Date 5/20/87
Lat 40 26.5N Lon 73 43.7W Time 330

Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.90	31.607	24.345	
4	9.90	31.606	24.344	
6	9.90	31.608	24.346	
7	9.90	31.607	24.345	
10	9.90	31.607	24.345	
12	9.90	31.607	24.345	
13	9.90	31.607	24.345	
15	9.90	31.606	24.344	
18	9.90	31.606	24.344	
20	9.90	31.606	24.344	
21	9.90	31.608	24.346	
23	9.76	31.592	24.356	
25	7.26	31.676	24.793	
31	7.26	31.676	24.793	

Sta 146 Depth 31 M Date 5/20/87
Lat 40 27.0N Lon 73 44.2W Time 406

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.81	31.544	24.311	
4	9.82	31.544	24.309	
6	9.81	31.545	24.312	
7	9.81	31.544	24.311	
10	9.81	31.544	24.311	
11	9.82	31.544	24.309	
14	9.81	31.544	24.311	
16	9.81	31.544	24.311	
18	9.81	31.545	24.312	
19	9.80	31.542	24.311	
20	9.82	31.547	24.312	
21	9.70	31.538	24.324	
23	8.58	31.426	24.410	
25	7.25	31.669	24.788	
31	7.25	31.669	24.788	



Sta 147 Depth 31 M Date 5/20/87
Lat 40 27.7N Lon 73 45.8W Time 506

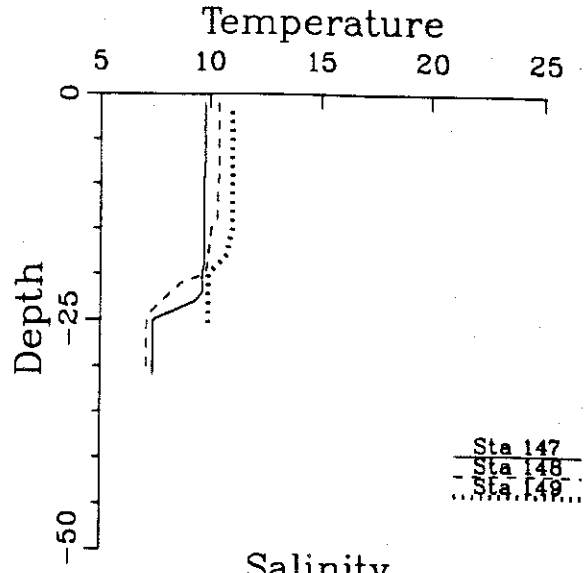
Depth	Temp	Salinity	Sigma-t	Oxygen
1	9.77	31.422	24.222	
4	9.77	31.422	24.222	
5	9.77	31.422	24.222	
7	9.77	31.423	24.223	
10	9.73	31.427	24.233	
11	9.72	31.427	24.234	
14	9.71	31.428	24.237	
15	9.71	31.428	24.237	
18	9.71	31.428	24.237	
19	9.71	31.429	24.237	
20	9.64	31.428	24.248	
22	9.66	31.436	24.251	
23	9.34	31.460	24.320	
25	7.39	31.620	24.731	
31	7.39	31.620	24.731	

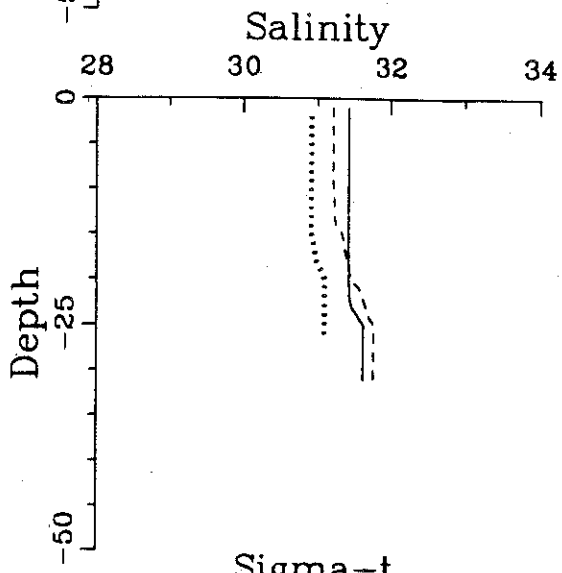
Sta 148 Depth 30 M Date 5/20/87
Lat 40 26.5N Lon 73 49.8W Time 554

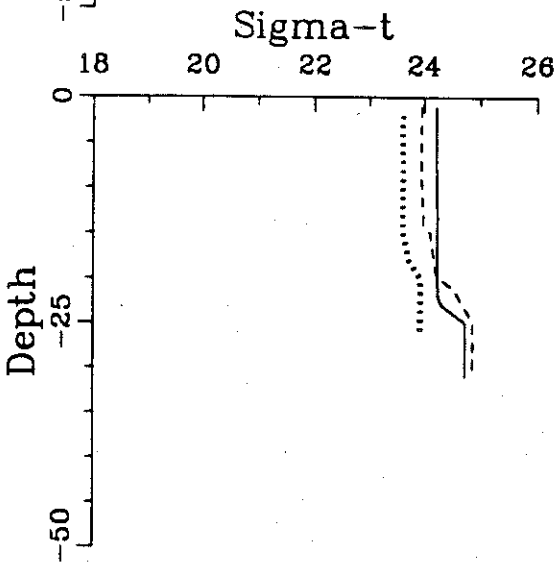
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.38	31.207	23.955	
4	10.38	31.207	23.955	
6	10.38	31.208	23.956	
8	10.37	31.208	23.957	
9	10.37	31.209	23.958	
11	10.34	31.223	23.974	
14	10.29	31.240	23.996	
15	10.04	31.341	24.115	
18	9.90	31.394	24.180	
20	9.83	31.450	24.234	
21	8.65	31.565	24.508	
24	7.33	31.691	24.795	
25	7.12	31.756	24.874	
31	7.12	31.756	24.874	

Sta 149 Depth 26 M Date 5/20/87
Lat 40 27.0N Lon 73 52.2W Time 630

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.97	30.912	23.626	
4	10.98	30.911	23.623	
5	10.98	30.912	23.624	
7	10.97	30.912	23.626	
9	10.97	30.912	23.626	
11	10.97	30.912	23.626	
13	10.97	30.912	23.626	
15	10.97	30.912	23.626	
18	10.68	30.984	23.731	
20	9.91	31.092	23.943	
26	9.91	31.092	23.943	







Sta 150 Depth 24 M Date 5/20/87
Lat 40 23.4N Lon 73 52.2W Time 712

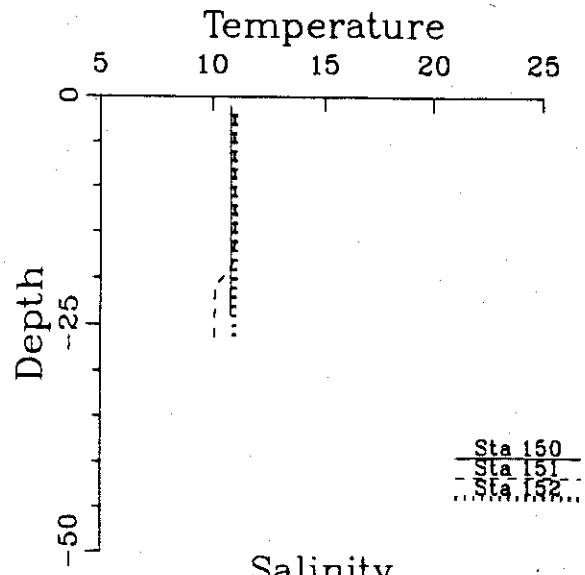
Depth	Temp	Salinity	Sigma-t	Oxygen
1	10.77	30.960	23.697	
3	10.77	30.960	23.697	
5	10.77	30.959	23.697	
7	10.77	30.958	23.696	
10	10.77	30.959	23.697	
11	10.77	30.959	23.697	
14	10.77	30.959	23.697	
16	10.77	30.959	23.697	
18	10.77	30.960	23.697	
19	10.77	30.960	23.697	
24	10.77	30.960	23.697	

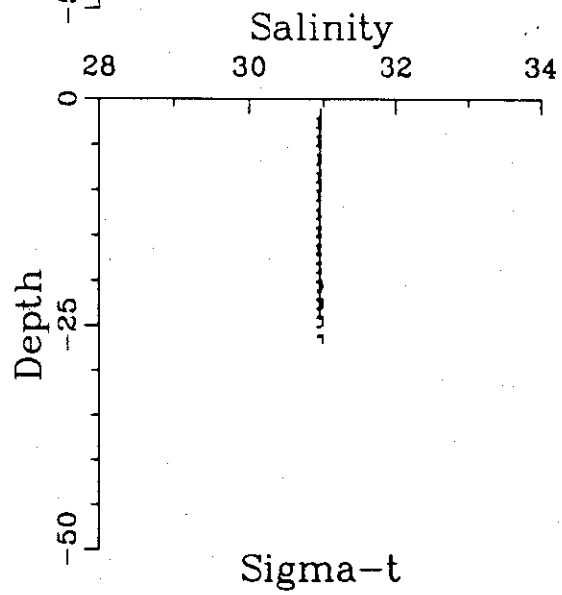
Sta 151 Depth 27 M Date 5/20/87
Lat 40 23.8N Lon 73 53.2W Time 742

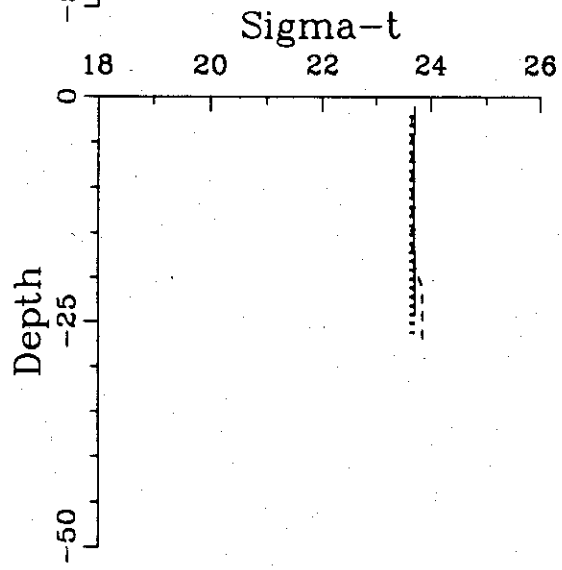
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.96	30.938	23.648	
4	10.96	30.939	23.648	
6	10.96	30.939	23.648	
8	10.96	30.939	23.648	
10	10.96	30.939	23.648	
11	10.96	30.939	23.648	
13	10.96	30.939	23.648	
16	10.96	30.939	23.648	
18	10.89	30.946	23.666	
19	10.73	30.972	23.714	
21	10.08	30.997	23.841	
27	10.08	30.997	23.841	

Sta 152 Depth 27 M Date 5/20/87
Lat 40 25.5N Lon 73 53.9W Time 818

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.98	30.940	23.646	
3	10.97	30.938	23.646	
5	10.97	30.938	23.646	
8	10.97	30.938	23.646	
10	10.97	30.937	23.645	
11	10.97	30.938	23.646	
14	10.98	30.939	23.645	
16	10.98	30.939	23.645	
17	10.98	30.941	23.647	
20	10.97	30.942	23.649	
21	10.94	30.945	23.657	
27	10.94	30.945	23.657	







Sta 153 Depth 20 M Date 5/20/87
Lat 40 27.2N Lon 73 53.4W Time 854

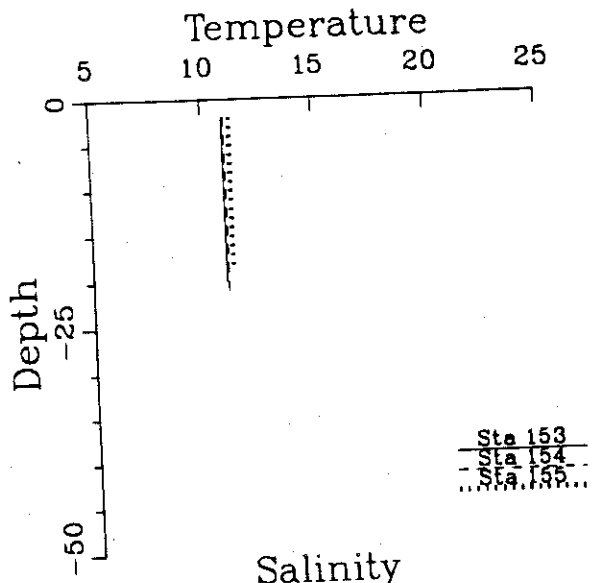
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.97	30.912	23.626	
3	10.97	30.912	23.626	
6	10.97	30.912	23.626	
7	10.97	30.912	23.626	
9	10.97	30.912	23.626	
12	10.97	30.912	23.626	
13	10.97	30.911	23.625	
16	10.96	30.912	23.628	
20	10.96	30.912	23.628	

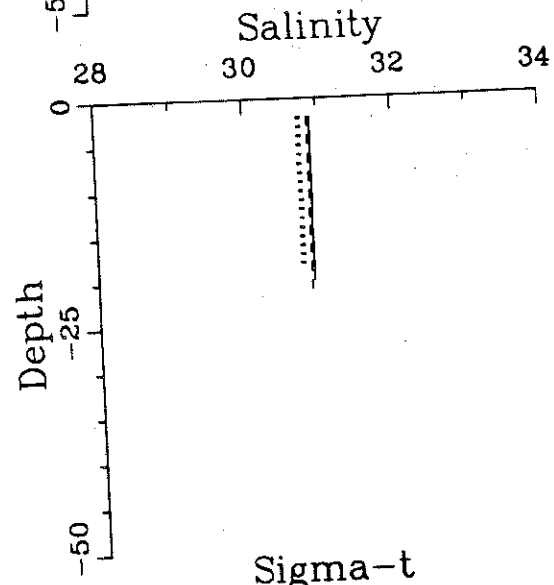
Sta 154 Depth 22 M Date 5/20/87
Lat 40 27.5N Lon 73 54.4W Time 918

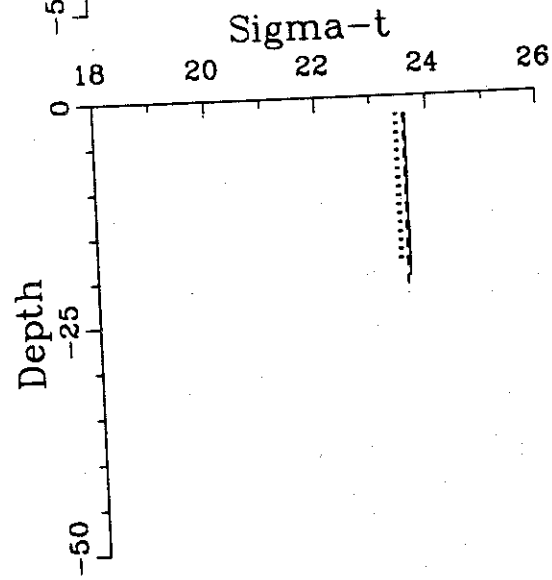
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.05	30.879	23.586	
3	11.05	30.879	23.586	
6	11.05	30.879	23.586	
7	11.05	30.879	23.586	
10	11.05	30.879	23.586	
11	11.05	30.879	23.586	
14	11.05	30.879	23.586	
16	11.05	30.881	23.588	
17	11.05	30.881	23.588	
22	11.05	30.881	23.588	

Sta 155 Depth 19 M Date 5/20/87
Lat 40 29.1N Lon 73 55.3W Time 948

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.28	30.760	23.454	
4	11.28	30.760	23.454	
5	11.27	30.760	23.456	
7	11.27	30.760	23.456	
10	11.26	30.764	23.461	
11	11.26	30.768	23.464	
14	11.26	30.771	23.466	
19	11.26	30.771	23.466	







Section C

Albatross IV 87-06
18-26 August 1987

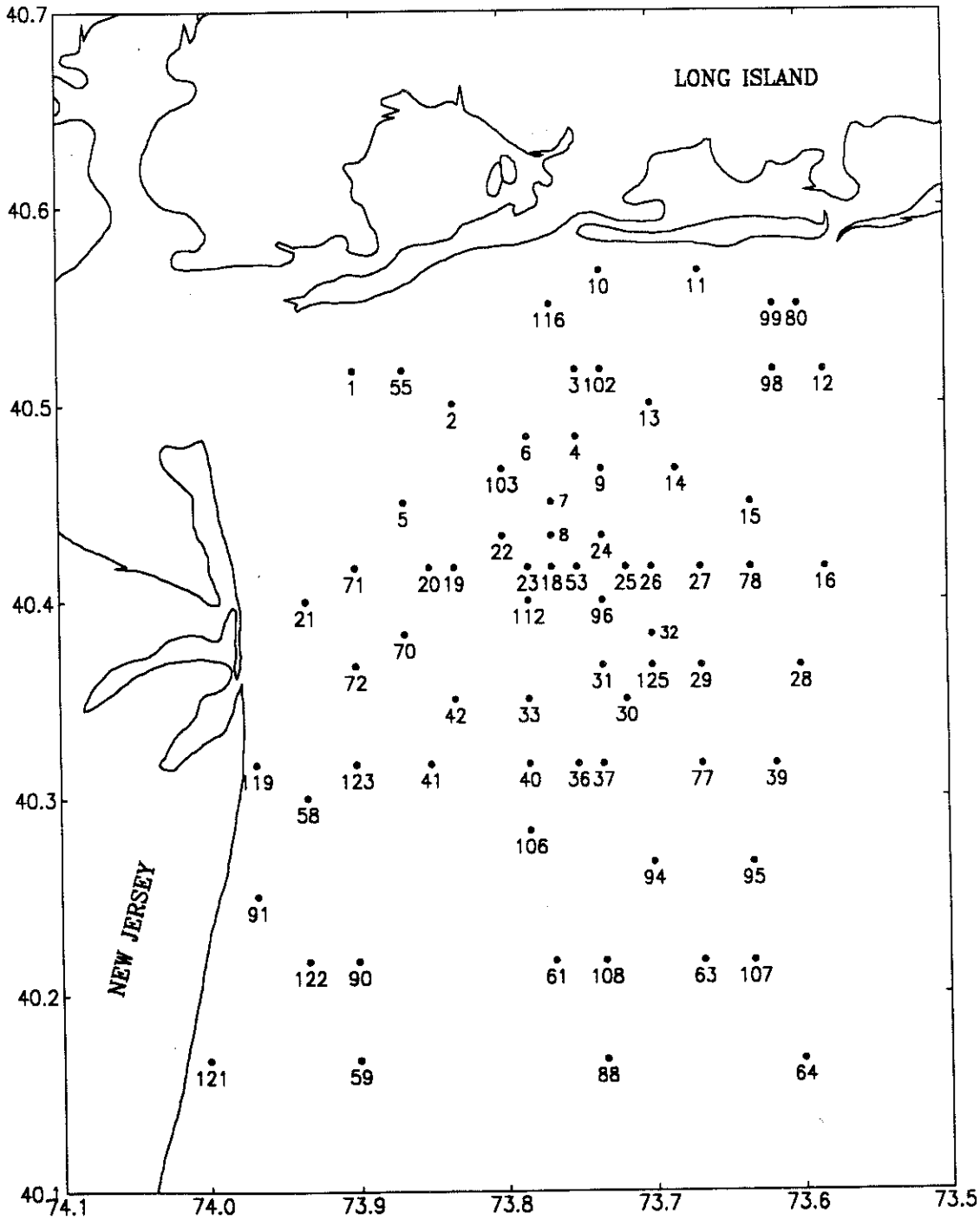


Figure C-1. Locations of CTD stations on cruise ALB87-06.

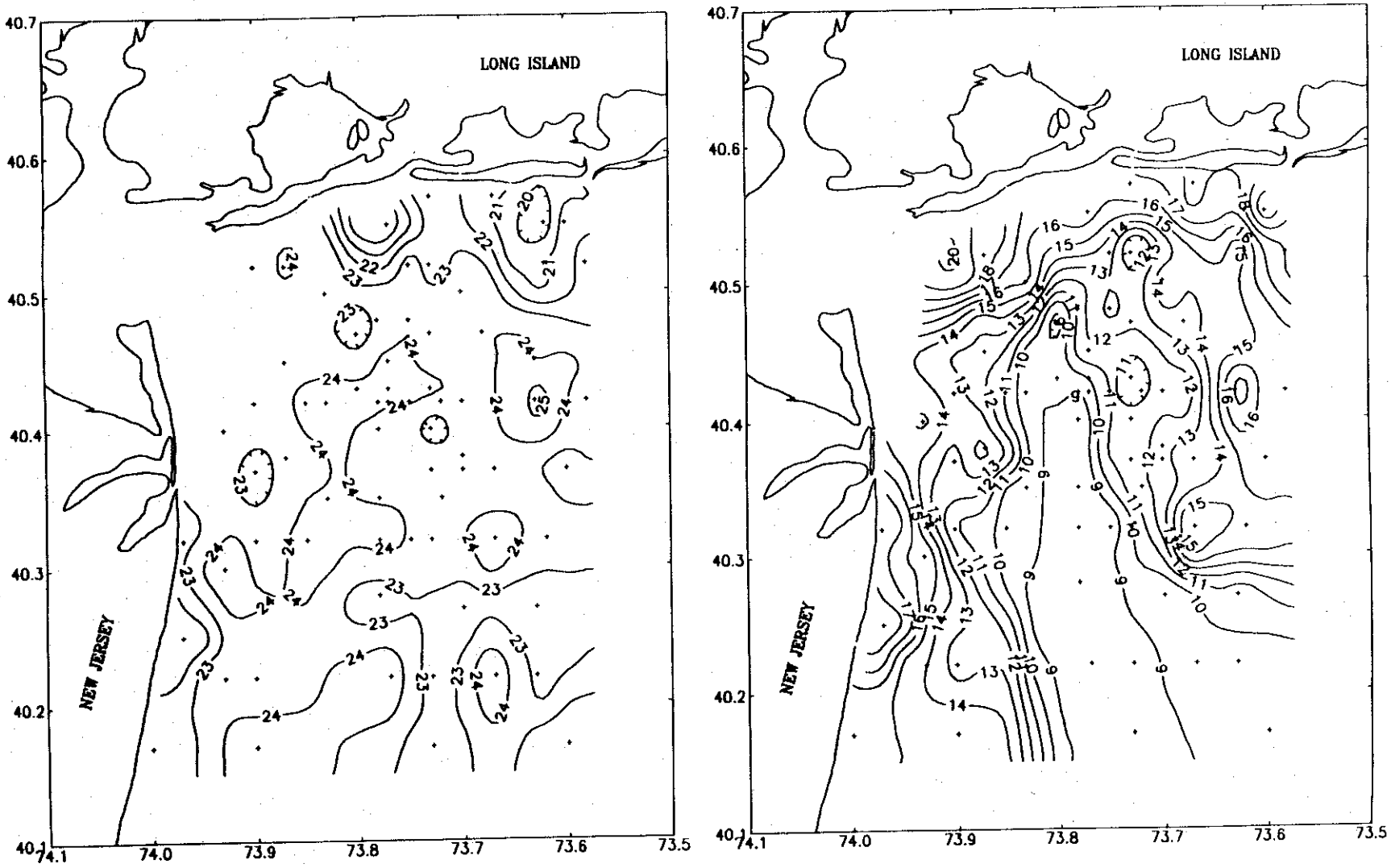
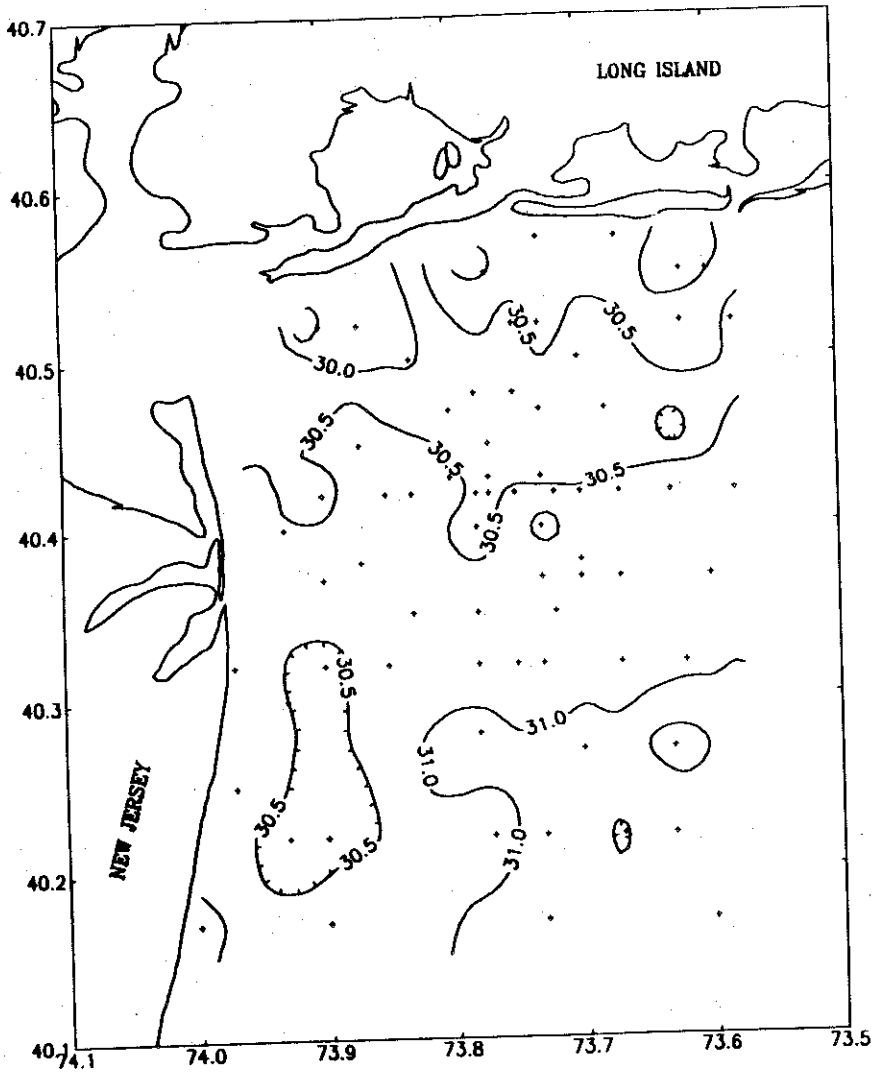


Figure C-2. Distribution of (a) surface and (b) bottom temperature on cruise ALB87-06.



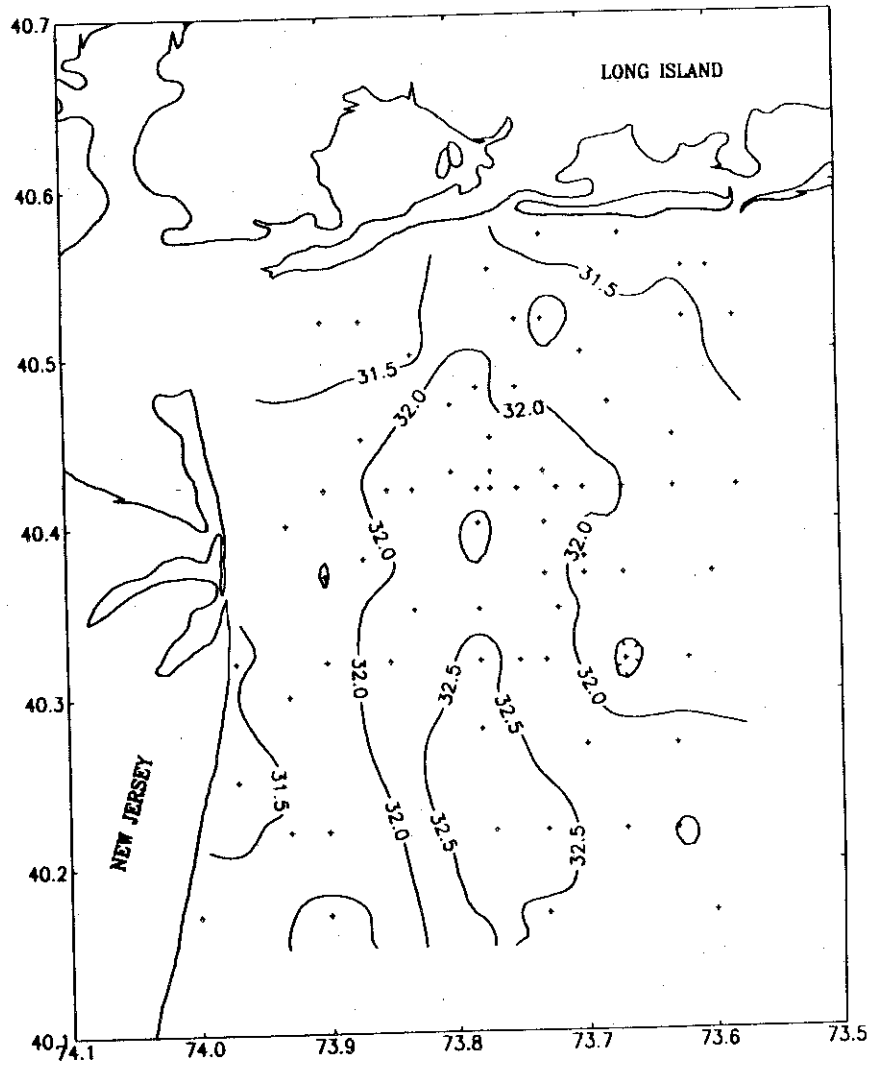


Figure C-3. Distribution of (a) surface and (b) bottom salinity on cruise ALB87-06.

Sta 1 Depth 9 M Date 8/18/87
Lat 40 31.1N Lon 73 54.0W Time 1336

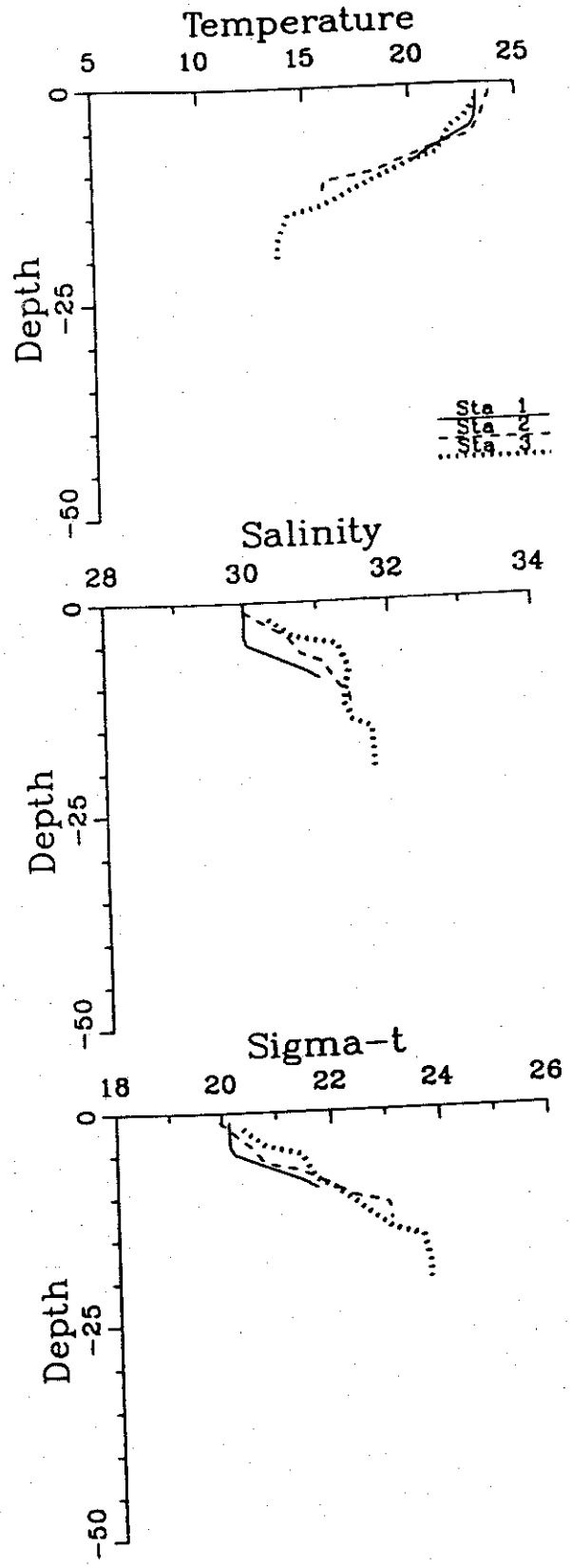
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.16	30.008	20.138	
4	23.10	30.003	20.151	
5	22.87	30.041	20.244	
8	20.67	30.841	21.447	
9	20.11	31.038	21.742	

Sta 2 Depth 14 M Date 8/18/87
Lat 40 30.9N Lon 73 50.0W Time 1600

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.79	29.991	19.945	
4	23.33	30.588	20.527	
6	22.88	30.777	20.797	
7	21.29	31.084	21.466	
10	18.31	31.303	22.394	
11	15.91	31.436	23.054	
13	15.80	31.454	23.092	

Sta 3 Depth 20 M Date 8/18/87
Lat 40 31.0N Lon 73 45.9W Time 1800

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.12	30.344	20.403	
4	22.59	30.672	20.799	
5	21.90	31.283	21.451	
8	21.29	31.427	21.726	
9	19.99	31.402	22.049	
12	17.34	31.352	22.663	
14	15.76	31.459	23.104	
15	14.16	31.737	23.659	
18	13.69	31.765	23.776	
20	13.65	31.770	23.788	



Sta 4 Depth 25 M Date 8/18/87
Lat 40 29.8N Lon 73 45.8W Time 2012

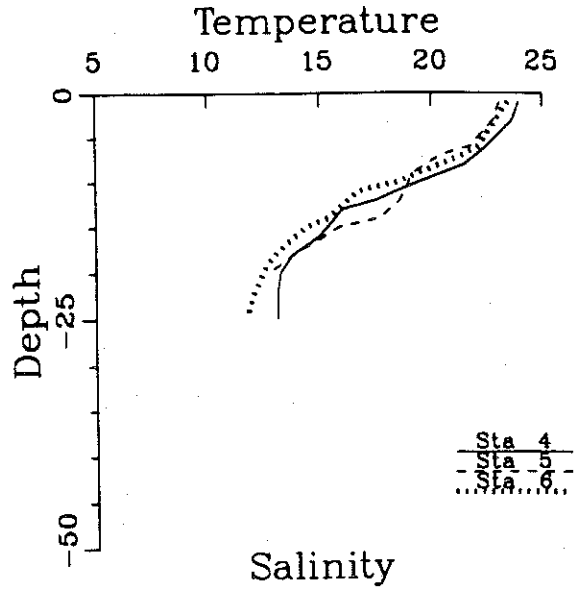
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.95	30.170	20.034	
3	23.66	30.296	20.213	
6	22.48	30.985	21.066	
8	21.49	31.392	21.645	
10	19.45	31.427	22.206	
12	17.49	31.572	22.796	
13	16.01	31.514	23.091	
16	15.00	31.663	23.426	
18	13.77	31.863	23.835	
20	13.22	31.901	23.974	
22	13.12	31.904	23.996	
24	13.11	31.888	23.986	
25	13.11	31.910	24.003	

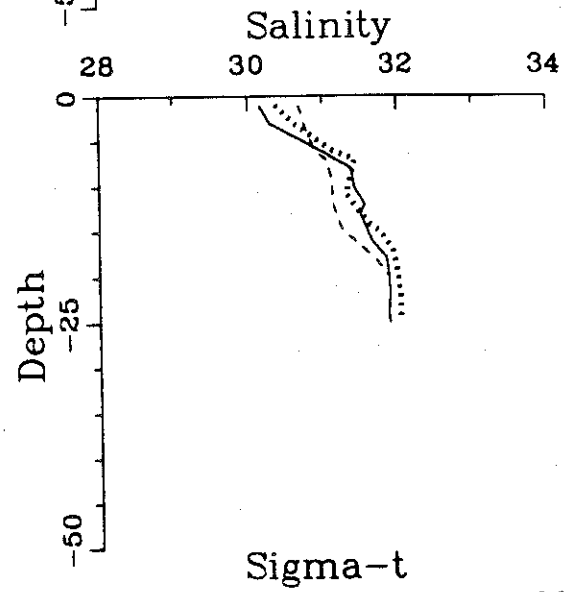
Sta 5 Depth 21 M Date 8/18/87
Lat 40 27.8N Lon 73 52.2W Time 2130

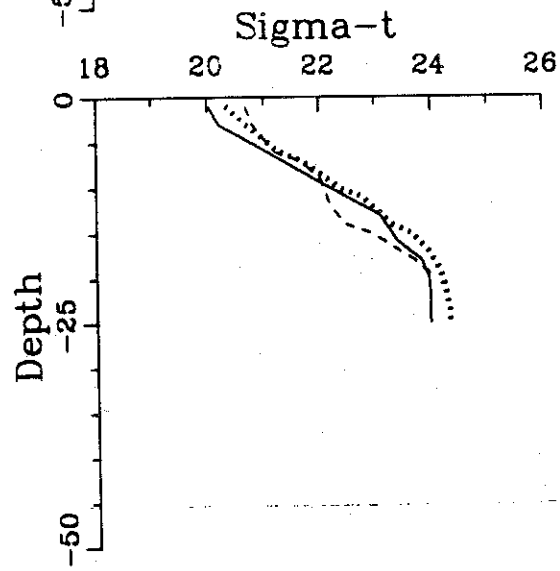
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.07	30.694	20.681	
3	22.79	30.757	20.807	
6	21.76	30.899	21.199	
7	20.40	31.052	21.677	
9	19.20	31.122	22.037	
12	18.59	31.151	22.210	
14	17.73	31.225	22.474	
15	15.88	31.282	22.942	
18	13.82	31.715	23.711	
20	12.72	31.907	24.076	

Sta 6 Depth 25 M Date 8/18/87
Lat 40 29.0N Lon 73 47.7W Time 2300

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.44	30.373	20.334	
3	22.89	30.618	20.674	
6	22.12	31.132	21.277	
7	21.40	31.435	21.702	
10	18.50	31.341	22.377	
11	16.75	31.323	22.778	
14	15.35	31.604	23.305	
15	14.38	31.776	23.643	
17	13.41	31.942	23.968	
19	12.64	31.997	24.161	
22	12.09	32.045	24.302	
24	11.81	32.044	24.353	
25	11.82	32.044	24.351	







Sta 7 Depth 27 M Date 8/18/87
Lat 40 27.8N Lon 73 46.0W Time 2330

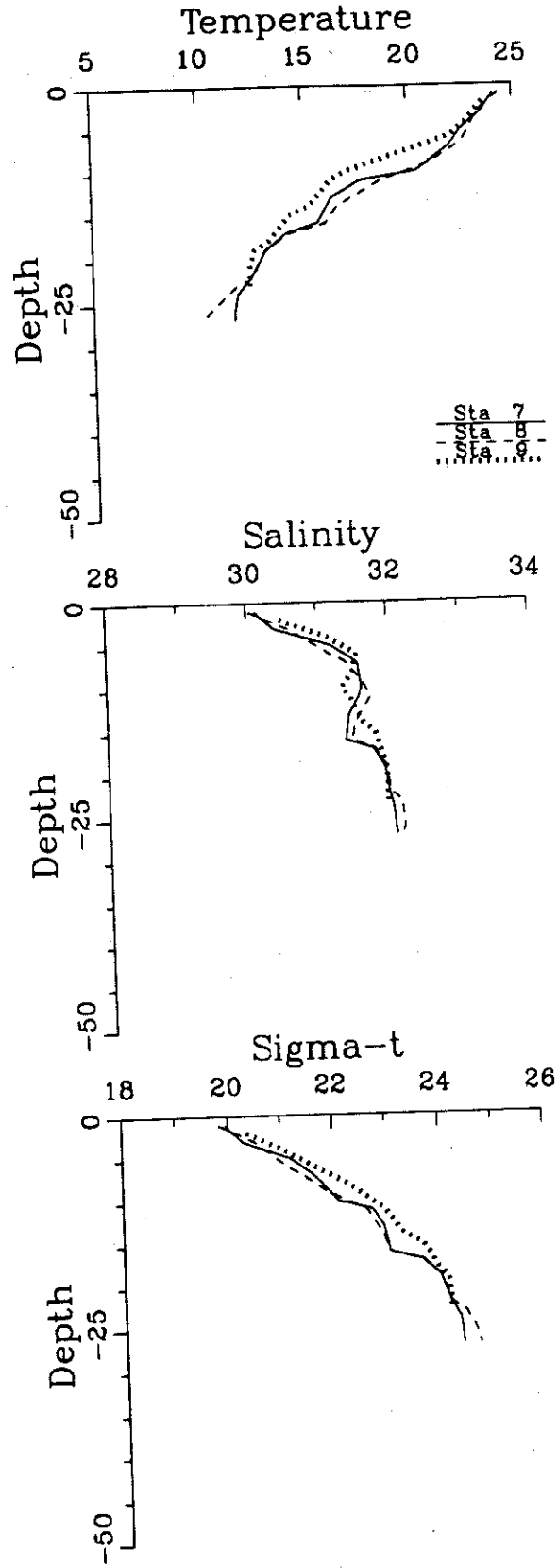
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.10	30.131	19.961	
3	23.59	30.395	20.307	
5	22.58	31.198	21.199	
7	21.99	31.576	21.648	
10	20.39	31.620	22.111	
11	17.78	31.585	22.737	
13	16.39	31.444	22.952	
16	15.69	31.387	23.065	
17	14.21	31.780	23.681	
19	13.20	31.932	24.002	
22	12.52	31.997	24.184	
24	11.82	32.065	24.368	
26	11.68	32.076	24.402	
27	11.67	32.097	24.420	

Sta 8 Depth 27 M Date 8/19/87
Lat 40 26.9N Lon 73 46.4W Time 112

Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.34	30.048	19.829	
3	23.37	30.590	20.517	
6	22.74	31.193	21.150	
7	22.31	31.419	21.441	
9	21.09	31.612	21.919	
11	18.77	31.760	22.629	
14	16.65	31.520	22.951	
16	16.07	31.488	23.058	
17	14.44	31.802	23.651	
19	13.13	31.957	24.035	
22	12.62	32.020	24.183	
23	11.82	32.171	24.450	
26	10.46	32.210	24.721	
27	10.22	32.172	24.732	

Sta 9 Depth 26 M Date 8/19/87
Lat 40 28.0N Lon 73 44.0W Time 400

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.57	30.476	20.374	
4	22.89	31.147	21.073	
6	21.93	31.563	21.655	
8	19.41	31.508	22.278	
10	17.03	31.345	22.730	
11	16.35	31.454	22.969	
14	15.32	31.641	23.340	
15	14.33	31.806	23.677	
18	13.32	31.922	23.971	
19	12.64	31.969	24.140	
21	12.42	31.974	24.185	
23	12.43	31.974	24.183	



Sta 10 Depth 12 M Date 8/19/87
Lat 40 34.0N Lon 73 44.0W Time 542

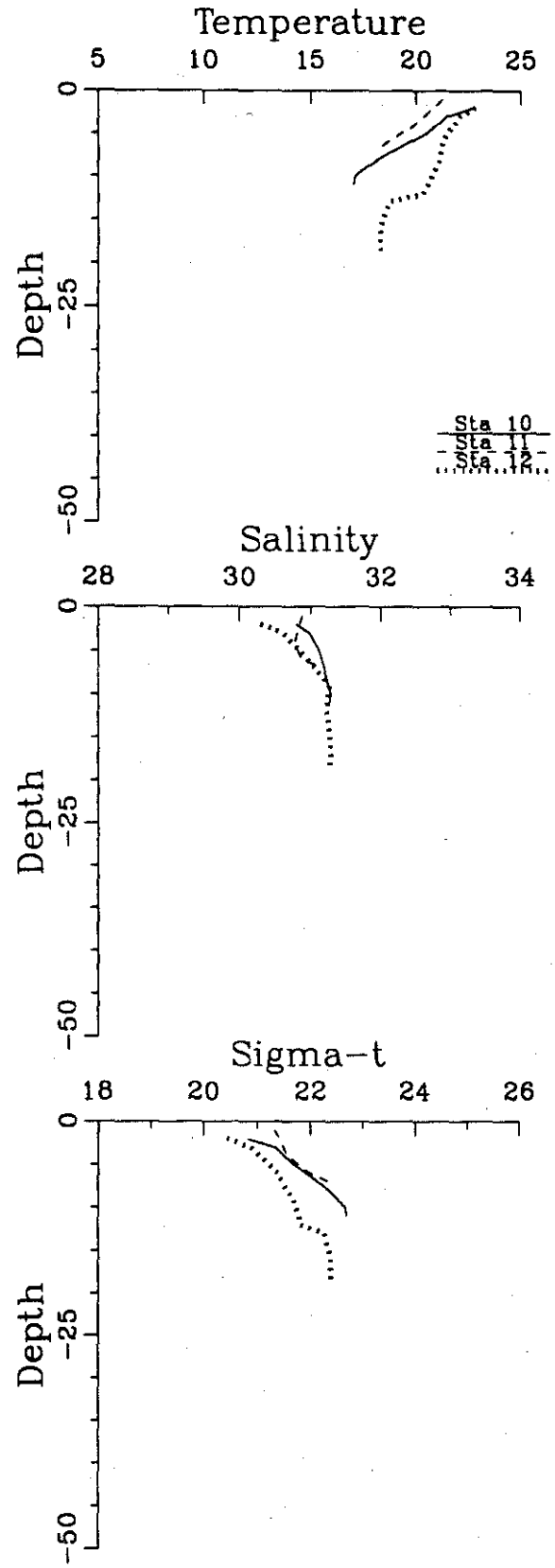
Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.75	30.793	20.845	
3	21.46	30.991	21.350	
5	20.49	31.122	21.707	
8	18.17	31.225	22.369	
10	17.07	31.282	22.673	
11	17.01	31.270	22.678	

Sta 11 Depth 9 M Date 8/19/87
Lat 40 34.0N Lon 73 40.0W Time 700

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.23	30.883	21.330	
4	19.94	30.780	21.590	
6	18.63	30.869	21.986	
7	18.10	31.197	22.364	

Sta 12 Depth 20 M Date 8/19/87
Lat 40 31.1N Lon 73 35.9W Time 836

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.82	30.296	20.451	
3	22.07	30.621	20.904	
6	21.25	30.956	21.380	
8	21.11	31.173	21.582	
9	20.97	31.267	21.690	
12	20.33	31.225	21.827	
13	18.68	31.257	22.269	
16	18.28	31.283	22.386	
18	18.26	31.286	22.394	
19	18.27	31.286	22.391	



Sta 13 Depth 19 M Date 8/19/87
Lat 40 30.9N Lon 73 42.0W Time 1036

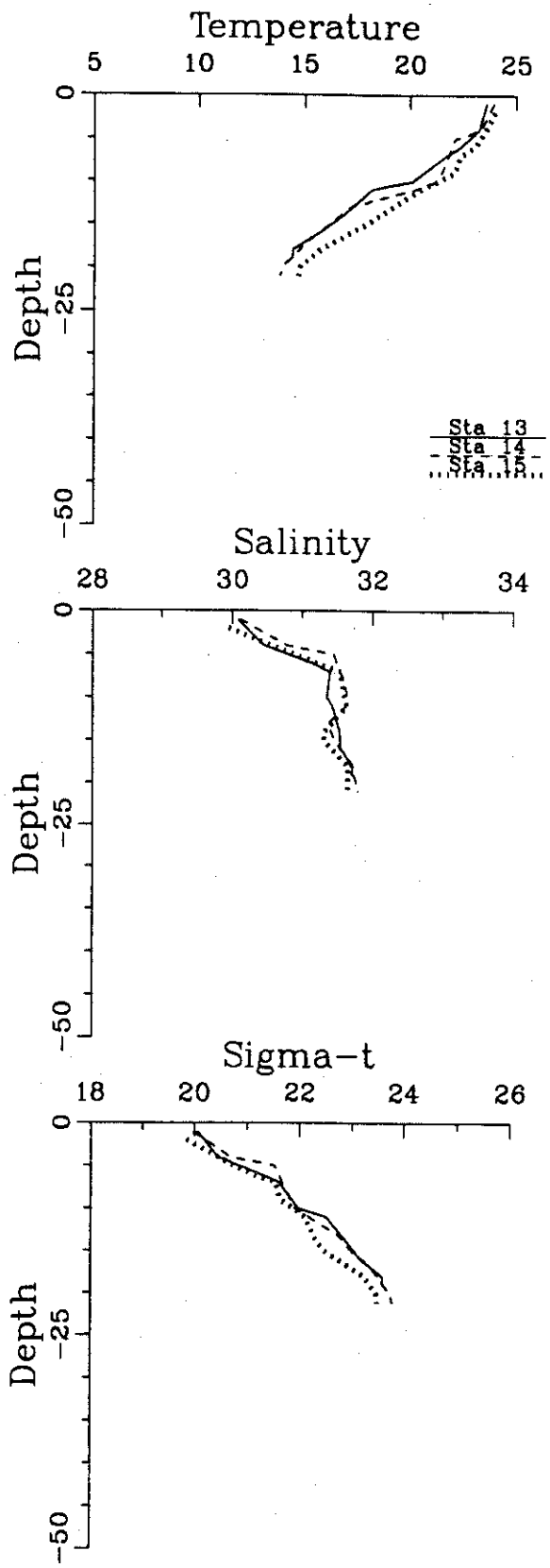
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.58	30.080	20.073	
4	23.26	30.452	20.444	
6	22.33	31.157	21.237	
7	21.68	31.397	21.597	
10	20.11	31.358	21.985	
11	18.19	31.436	22.525	
14	16.82	31.532	22.922	
16	15.75	31.552	23.178	
18	14.39	31.722	23.600	
19	14.40	31.710	23.588	

Sta 14 Depth 21 M Date 8/19/87
Lat 40 28.2N Lon 73 41.0W Time 1154

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.95	30.112	19.990	
4	23.32	30.779	20.674	
5	22.11	31.450	21.520	
8	21.66	31.588	21.747	
10	21.24	31.647	21.906	
11	20.15	31.623	22.175	
13	17.16	31.375	22.723	
15	16.22	31.461	23.004	
17	15.15	31.647	23.381	
20	13.92	31.779	23.740	
21	13.81	31.799	23.778	

Sta 15 Depth 21 M Date 8/19/87
Lat 40 27.9N Lon 73 38.2W Time 1236

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.98	29.951	19.860	
4	23.58	30.553	20.429	
6	23.01	31.195	21.076	
7	22.35	31.553	21.531	
9	22.06	31.577	21.629	
11	20.43	31.637	22.113	
14	18.57	31.317	22.342	
15	17.93	31.313	22.494	
18	15.77	31.650	23.249	
20	14.77	31.658	23.471	
21	14.69	31.655	23.485	



Sta 16 Depth 22 M Date 8/19/87
Lat 40 25.2N Lon 73 35.9W Time 1348

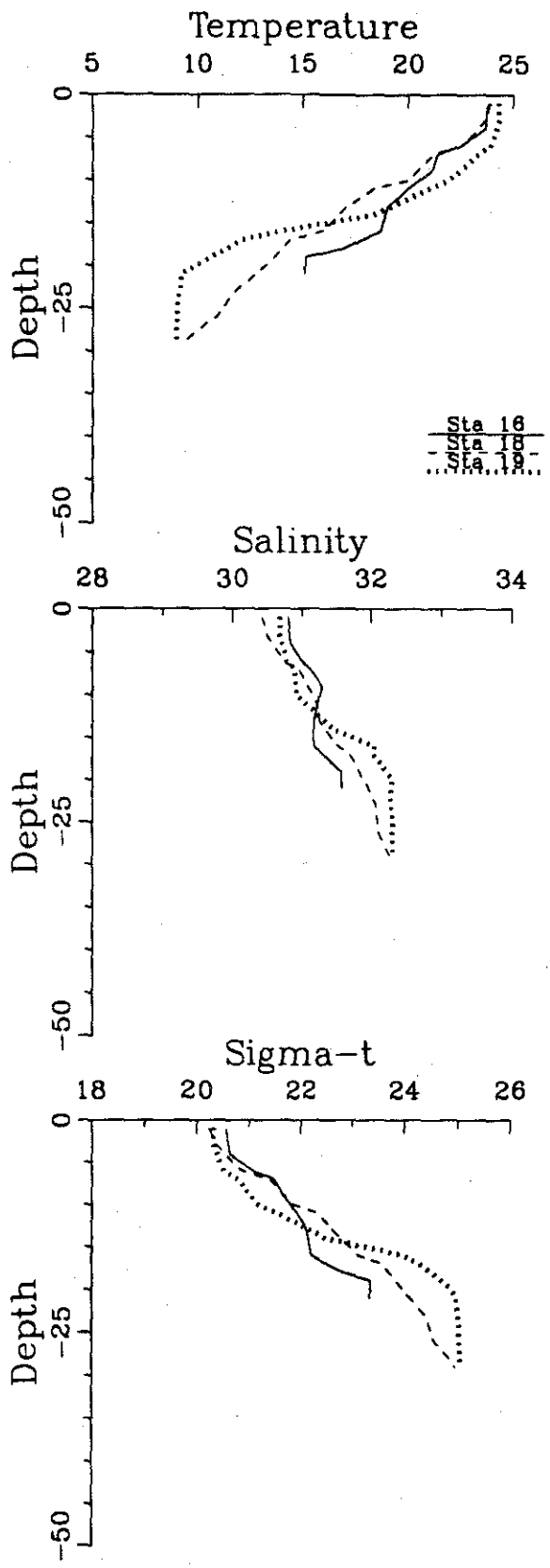
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.77	30.808	20.567	
4	23.66	30.837	20.620	
6	22.47	30.995	21.076	
7	21.39	31.132	21.475	
9	21.12	31.297	21.673	
11	19.99	31.235	21.922	
13	19.06	31.177	22.114	
16	18.70	31.176	22.202	
18	16.93	31.441	22.827	
19	15.11	31.589	23.345	
21	15.09	31.585	23.347	

Sta 18 Depth 30 M Date 8/19/87
Lat 40 25.1N Lon 73 46.0W Time 1736

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.89	30.423	20.242	
3	23.66	30.500	20.366	
6	22.50	30.731	20.868	
7	21.20	30.964	21.399	
10	20.02	31.147	21.848	
11	18.39	31.223	22.314	
13	17.13	31.256	22.639	
16	15.97	31.534	23.115	
17	14.44	31.710	23.580	
20	13.23	31.906	23.976	
22	12.27	32.033	24.259	
23	11.76	32.080	24.390	
26	10.92	32.101	24.557	
27	10.26	32.159	24.715	
29	9.31	32.277	24.962	

Sta 19 Depth 30 M Date 8/19/87
Lat 40 25.0N Lon 73 50.0W Time 2000

Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.27	30.685	20.329	
3	24.33	30.681	20.308	
6	23.89	30.789	20.518	
7	23.29	30.903	20.776	
10	21.93	30.923	21.171	
11	20.98	31.055	21.527	
14	18.42	31.468	22.493	
16	13.91	32.059	23.958	
17	12.05	32.033	24.300	
20	9.91	32.314	24.894	
21	9.22	32.281	24.979	
24	9.05	32.303	25.023	
25	9.00	32.311	25.037	
28	8.97	32.316	25.046	
29	8.97	32.318	25.047	



Sta 20 Depth 20 M Date 8/19/87
Lat 40 25.0N Lon 73 51.1W Time 2106

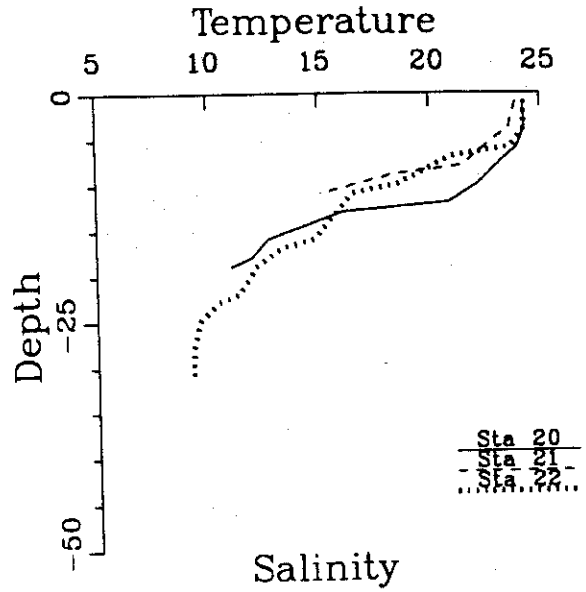
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.29	30.732	20.358	
4	24.31	30.731	20.351	
6	23.96	30.780	20.490	
7	23.47	30.880	20.707	
10	22.18	30.978	21.144	
12	20.84	31.070	21.575	
13	16.06	31.690	23.215	
16	12.72	31.933	24.096	
18	11.97	31.983	24.277	
19	11.00	32.095	24.538	

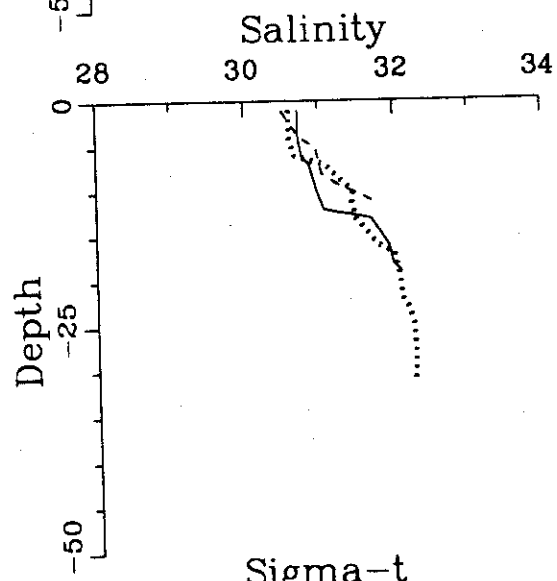
Sta 21 Depth 12 M Date 8/18/87
Lat 40 24.9N Lon 73 56.0W Time 2200

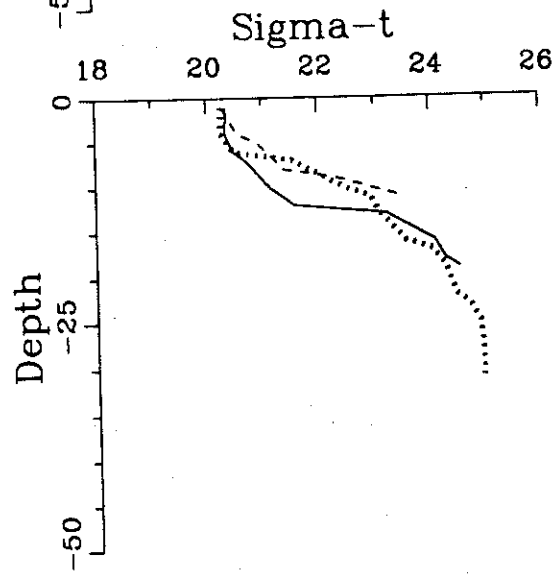
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.93	30.516	20.300	
4	23.60	30.747	20.570	
5	22.99	30.967	20.909	
8	21.47	31.048	21.390	
9	18.19	31.214	22.356	
11	15.06	31.701	23.442	

Sta 22 Depth 31 M Date 8/19/87
Lat 40 26.8N Lon 73 48.7W Time 2348

Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.30	30.614	20.266	
4	24.28	30.607	20.267	
6	23.67	30.679	20.498	
7	21.00	31.092	21.549	
10	18.53	31.449	22.452	
11	16.48	31.435	22.925	
13	15.82	31.482	23.109	
16	14.78	31.786	23.567	
17	13.31	32.012	24.042	
19	12.17	32.057	24.297	
22	11.39	32.110	24.481	
23	10.39	32.190	24.717	
25	9.59	32.263	24.906	
28	9.32	32.272	24.957	
30	9.30	32.274	24.961	
31	9.31	32.264	24.952	







Sta 23 Depth 31 M Date 8/20/87
Lat 40 25.1N Lon 73 47.9W Time 36

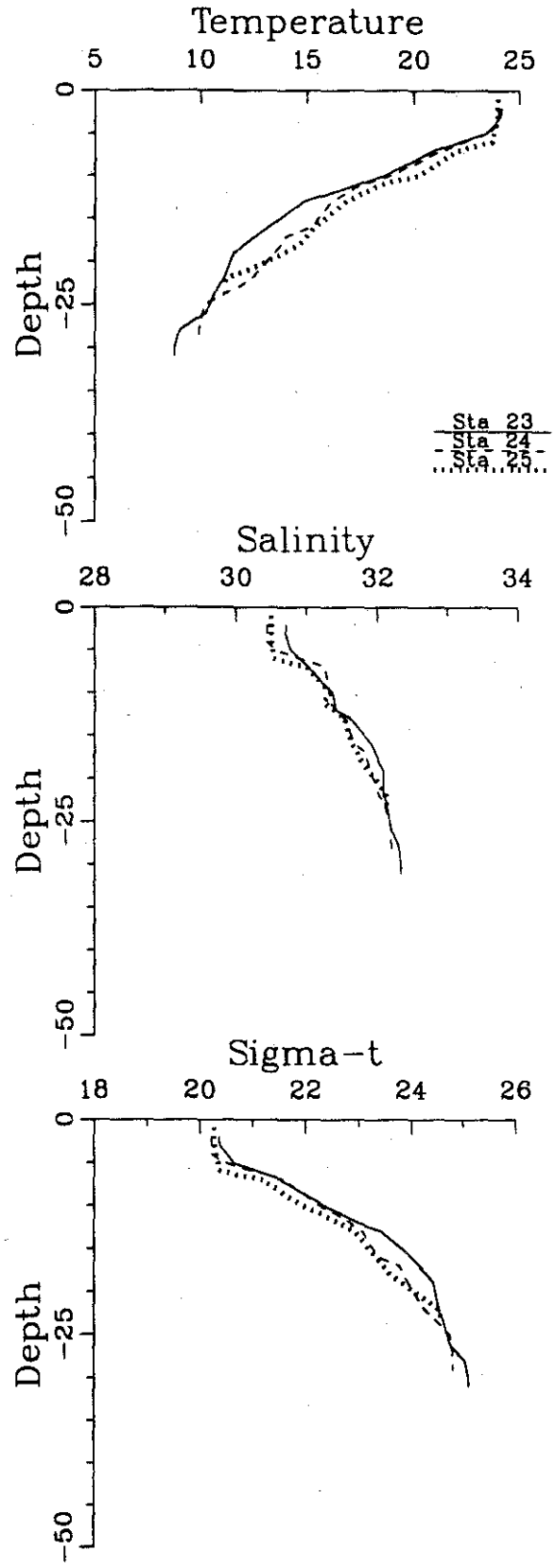
Depth	Temp	Salinity	Sigma-t	Oxygen
2	24.18	30.711	20.374	
3	24.11	30.713	20.396	
5	23.45	30.778	20.636	
7	20.94	31.025	21.515	
10	18.65	31.372	22.364	
12	16.13	31.419	22.992	
13	14.82	31.628	23.437	
16	13.20	31.926	23.998	
18	12.03	32.029	24.301	
19	11.55	32.092	24.438	
22	11.06	32.096	24.528	
23	10.78	32.145	24.615	
26	10.25	32.205	24.752	
28	9.01	32.323	25.045	
30	8.77	32.344	25.098	
31	8.77	32.349	25.102	

Sta 24 Depth 29 M Date 8/20/87
Lat 40 26.1N Lon 73 44.2W Time 254

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.99	30.443	20.228	
4	23.98	30.443	20.231	
5	23.49	30.569	20.467	
7	21.31	31.269	21.601	
10	18.93	31.331	22.263	
11	17.57	31.318	22.583	
13	16.11	31.544	23.092	
16	15.25	31.675	23.381	
17	14.04	31.843	23.765	
20	13.10	31.951	24.037	
22	12.37	32.028	24.237	
23	11.75	32.111	24.416	
25	10.17	32.193	24.757	
28	9.89	32.208	24.815	
29	9.88	32.213	24.820	

Sta 25 Depth 23 M Date 8/20/87
Lat 40 25.0N Lon 73 43.9W Time 336

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.99	30.504	20.274	
3	23.95	30.501	20.283	
6	23.73	30.540	20.376	
7	22.07	31.002	21.192	
10	20.24	31.345	21.941	
11	18.49	31.232	22.296	
13	16.79	31.541	22.935	
16	15.37	31.641	23.329	
18	14.61	31.787	23.604	
20	13.16	31.979	24.046	
22	11.21	32.134	24.531	
23	10.95	32.146	24.587	



Sta 26 Depth 23 M Date 8/20/87
Lat 40 25.0N Lon 73 42.1W Time 500

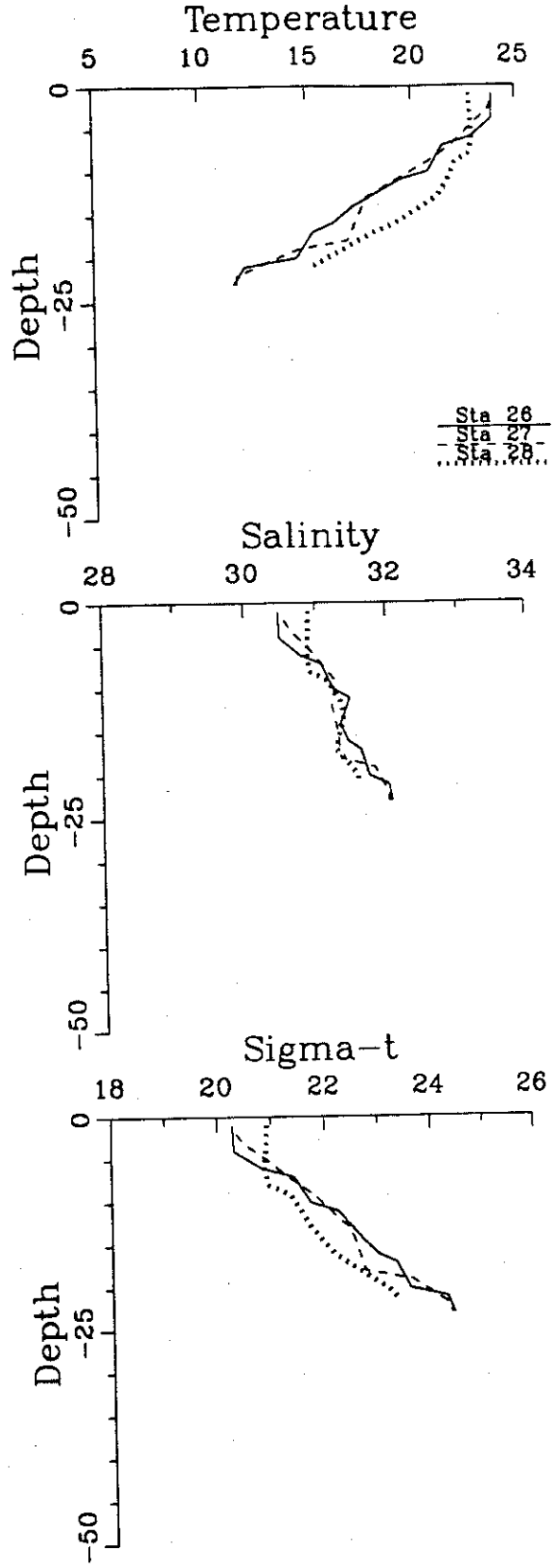
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.89	30.491	20.293	
4	23.85	30.504	20.314	
6	22.82	30.793	20.826	
7	21.45	31.088	21.426	
10	20.79	31.263	21.735	
11	19.43	31.490	22.259	
14	17.26	31.357	22.686	
16	16.26	31.457	22.992	
17	15.28	31.643	23.350	
20	14.51	31.755	23.600	
21	12.09	32.025	24.287	
23	11.58	32.068	24.414	

Sta 27 Depth 23 M Date 8/20/87
Lat 40 25.0N Lon 73 40.0W Time 630

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.86	30.578	20.367	
3	23.66	30.647	20.477	
5	22.70	30.887	20.930	
7	21.86	31.097	21.321	
9	20.70	31.292	21.780	
12	18.53	31.240	22.293	
13	17.86	31.265	22.474	
15	17.49	31.324	22.607	
18	16.94	31.353	22.757	
19	14.60	31.827	23.636	
22	11.74	32.022	24.349	
23	11.71	32.029	24.360	

Sta 28 Depth 22 M Date 8/20/87
Lat 40 22.0N Lon 73 36.0W Time 800

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.74	30.910	20.937	
4	22.82	30.903	20.909	
6	22.89	30.888	20.878	
8	22.68	30.931	20.969	
9	21.99	31.174	21.344	
11	21.66	31.338	21.558	
13	21.15	31.409	21.750	
16	19.21	31.312	22.179	
17	18.21	31.295	22.413	
20	15.98	31.597	23.161	
21	15.19	31.589	23.328	



Sta 29 Depth 24 M Date 8/20/87
Lat 40 22.0N Lon 73 40.0W Time 906

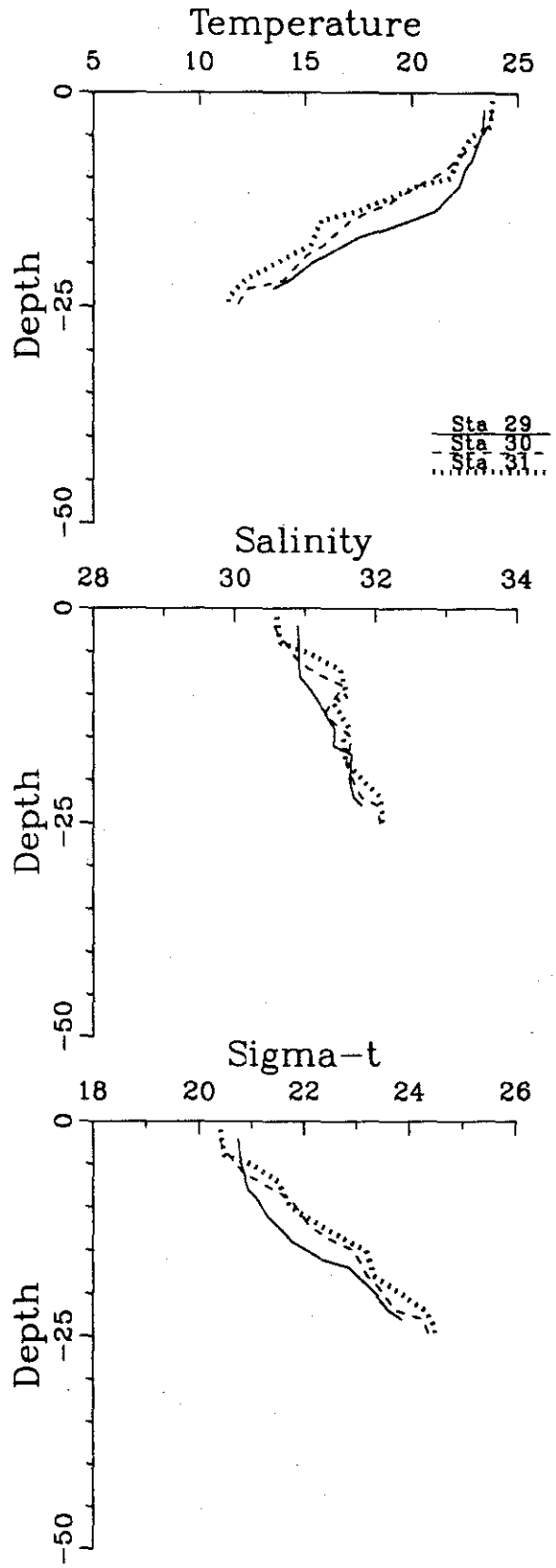
Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.42	30.899	20.736	
4	23.32	30.907	20.770	
5	23.28	30.920	20.791	
8	22.82	30.929	20.928	
9	22.50	31.038	21.100	
11	22.21	31.200	21.303	
14	21.09	31.433	21.784	
16	18.87	31.413	22.341	
17	17.50	31.661	22.861	
20	15.32	31.646	23.344	
22	14.29	31.703	23.606	
23	13.49	31.816	23.855	

Sta 30 Depth 25 M Date 8/20/87
Lat 40 21.7N Lon 73 43.4W Time 1024

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.79	30.572	20.383	
3	23.71	30.626	20.447	
6	23.14	30.904	20.819	
7	22.46	31.061	21.129	
9	21.62	31.557	21.735	
12	19.56	31.296	22.079	
13	18.97	31.382	22.292	
15	17.18	31.681	22.952	
18	15.77	31.590	23.203	
19	15.12	31.631	23.375	
22	13.96	31.808	23.754	
23	12.29	32.039	24.260	
25	11.69	32.059	24.387	

Sta 31 Depth 25 M Date 8/20/87
Lat 40 22.0N Lon 73 44.0W Time 1100

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.80	30.604	20.404	
4	23.69	30.652	20.472	
5	22.89	30.998	20.961	
7	22.29	31.508	21.514	
10	21.77	31.608	21.732	
11	20.22	31.407	21.993	
14	17.44	31.650	22.867	
15	15.75	31.555	23.180	
18	15.21	31.590	23.325	
19	14.41	31.718	23.592	
22	12.14	32.069	24.311	
24	11.33	32.097	24.481	
25	11.34	32.092	24.476	



Sta 32 Depth 23 M Date 8/20/87
Lat 40 23.0N Lon 73 42.1W Time 1206

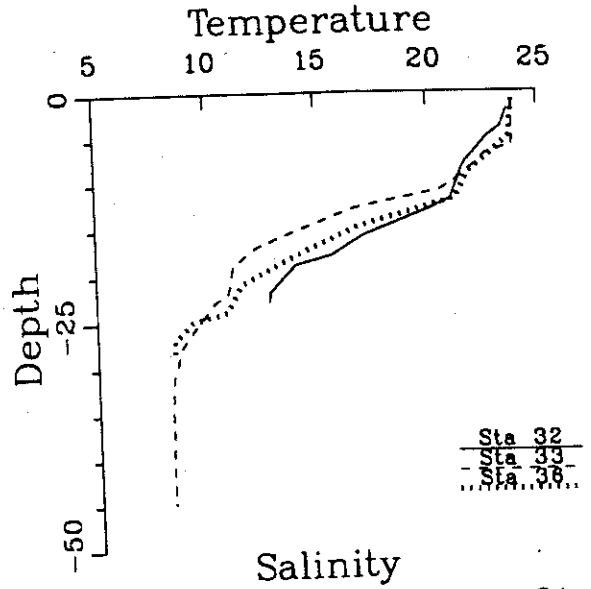
Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.64	30.613	20.457	
4	23.34	30.745	20.642	
5	22.71	31.028	21.034	
8	21.65	31.288	21.523	
9	21.44	31.356	21.631	
12	20.99	31.366	21.760	
13	20.14	31.438	22.038	
16	17.06	31.501	22.842	
18	15.64	31.533	23.187	
19	13.99	31.820	23.757	
22	12.81	31.933	24.079	
23	12.79	31.862	24.028	

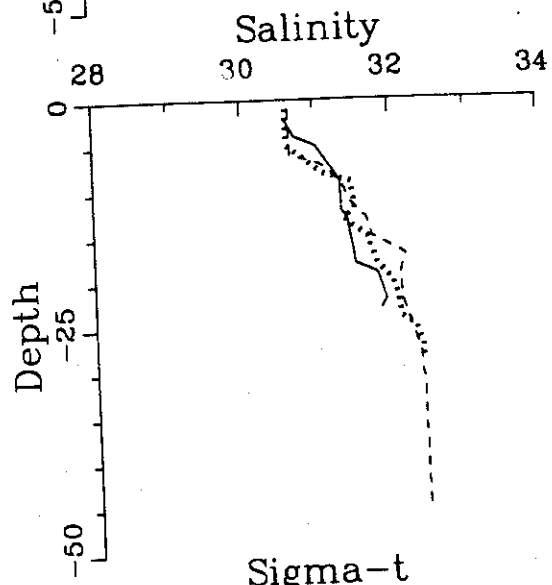
Sta 33 Depth 45 M Date 8/20/87
Lat 40 21.6N Lon 73 47.5W Time 1324

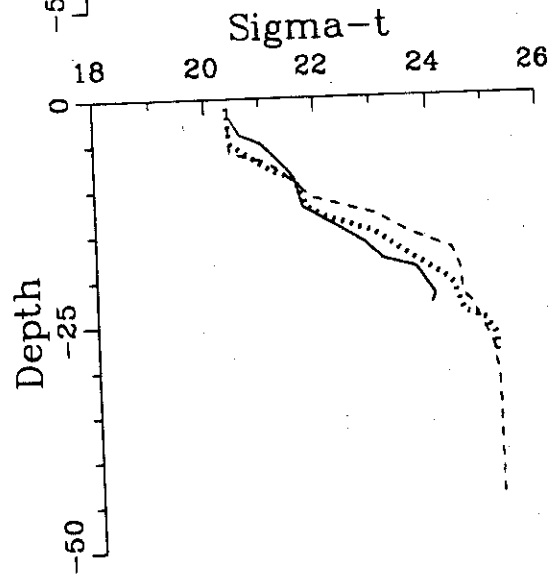
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.89	30.675	20.432	
4	23.89	30.676	20.432	
6	23.86	30.683	20.446	
7	22.57	31.097	21.125	
11	20.55	31.462	21.949	
13	16.64	31.696	23.088	
15	14.41	31.764	23.628	
17	12.25	32.203	24.394	
22	10.93	32.146	24.590	
23	10.31	32.194	24.734	
26	9.28	32.302	24.986	
28	8.69	32.380	25.139	
30	8.52	32.392	25.174	
33	8.31	32.416	25.224	
35	8.29	32.415	25.226	
42	8.25	32.427	25.241	
45	8.25	32.429	25.243	

Sta 36 Depth 29 M Date 8/20/87
Lat 40 19.0N Lon 73 45.9W Time 1648

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.89	30.634	20.401	
3	23.80	30.632	20.425	
5	23.72	30.648	20.460	
8	22.33	31.119	21.209	
9	21.79	31.497	21.643	
12	21.19	31.540	21.838	
13	19.68	31.394	22.122	
15	16.85	31.697	23.041	
18	14.03	31.816	23.746	
20	12.35	32.025	24.238	
21	11.53	32.065	24.421	
24	10.86	32.136	24.594	
25	9.27	32.314	24.997	
27	8.44	32.407	25.197	
29	8.43	32.405	25.197	







Sta 37 Depth 25 M Date 8/20/87
Lat 40 19.0N Lon 73 44.1W Time 1736

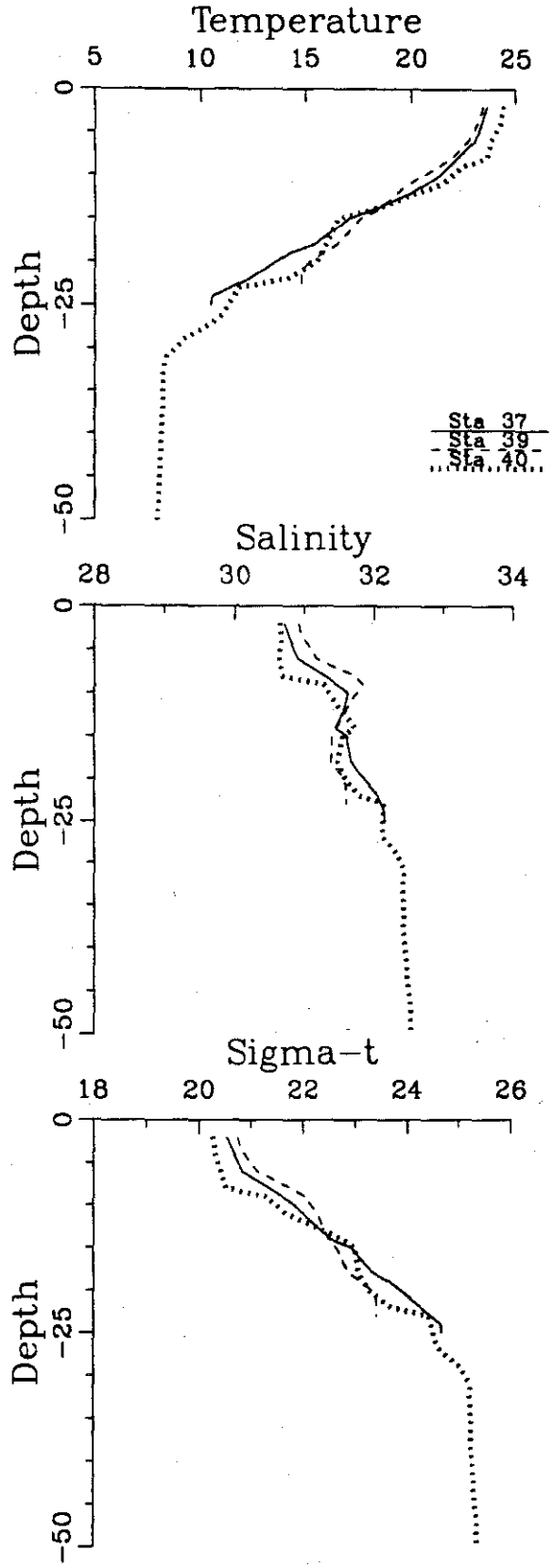
Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.64	30.717	20.535	
4	23.37	30.807	20.681	
6	23.08	30.916	20.845	
8	22.25	31.296	21.365	
10	21.38	31.629	21.854	
12	20.02	31.558	22.160	
14	18.18	31.439	22.530	
15	17.07	31.615	22.927	
18	15.41	31.673	23.345	
19	14.25	31.757	23.655	
22	12.32	32.064	24.274	
24	10.55	32.158	24.665	
25	10.47	32.160	24.680	

Sta 39 Depth 24 M Date 8/20/87
Lat 40 19.0N Lon 73 37.9W Time 1924

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.45	30.924	20.746	
3	23.34	30.940	20.789	
6	22.78	31.177	21.127	
8	21.97	31.729	21.769	
9	21.27	31.839	22.043	
11	19.86	31.663	22.281	
14	18.45	31.461	22.481	
15	17.62	31.402	22.635	
18	16.46	31.381	22.888	
20	15.21	31.574	23.312	
21	14.83	31.604	23.417	
23	14.82	31.604	23.419	

Sta 40 Depth 55 M Date 8/20/87
Lat 40 19.0N Lon 73 47.4W Time 2118

Depth	Temp	Salinity	Sigma-t	Oxygen
2	24.42	30.656	20.263	
4	24.26	30.671	20.321	
6	23.83	30.643	20.425	
8	23.64	30.690	20.515	
11	21.46	31.440	21.690	
14	18.17	31.722	22.748	
15	16.51	31.549	23.005	
18	15.99	31.477	23.067	
20	15.54	31.592	23.255	
22	14.16	31.790	23.699	
26	11.05	32.118	24.547	
27	10.61	32.153	24.651	
31	8.39	32.427	25.220	
33	8.26	32.425	25.238	
36	8.22	32.430	25.248	
41	8.15	32.465	25.286	
46	8.06	32.523	25.344	
50	8.00	32.545	25.370	
55	8.01	32.547	25.370	



Sta 41 Depth 25 M Date 8/20/87
Lat 40 19.0N Lon 73 51.9W Time 2248

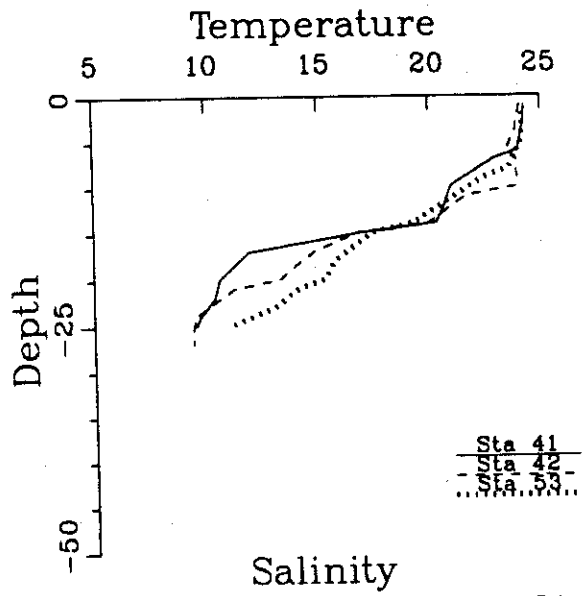
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.29	30.761	20.380	
3	24.22	30.805	20.434	
6	23.97	30.882	20.564	
7	22.85	31.061	21.020	
10	20.99	31.065	21.532	
12	20.68	31.070	21.617	
14	20.32	31.117	21.747	
15	16.93	31.617	22.961	
17	11.89	32.232	24.484	
20	10.62	32.157	24.652	
22	10.41	32.166	24.695	
24	9.74	32.260	24.880	
25	9.58	32.294	24.932	

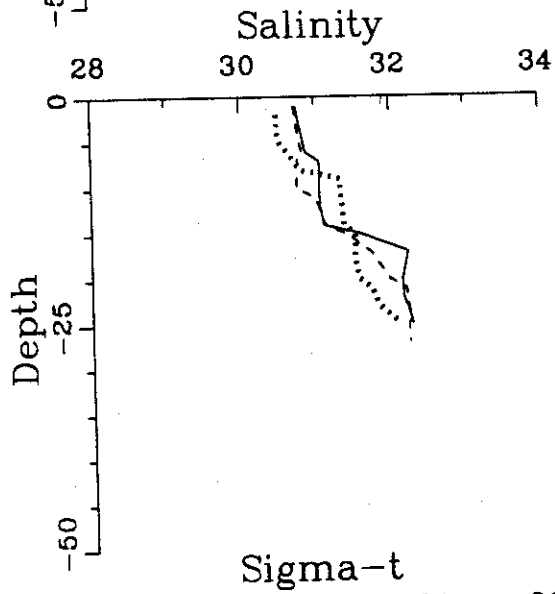
Sta 42 Depth 27 M Date 8/21/87
Lat 40 21.4N Lon 73 50.5W Time 18

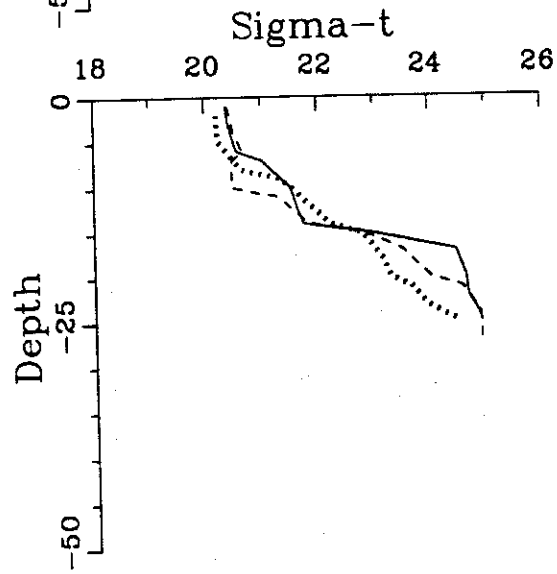
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.08	30.735	20.422	
4	23.84	30.782	20.527	
6	23.44	30.833	20.680	
7	23.92	30.765	20.491	
10	23.93	30.759	20.483	
11	21.68	31.005	21.301	
14	19.99	31.138	21.849	
15	16.74	31.418	22.853	
17	14.81	31.741	23.526	
20	13.27	31.996	24.038	
21	11.25	32.204	24.579	
24	9.51	32.256	24.914	
25	9.45	32.243	24.913	
27	9.43	32.247	24.920	

Sta 53 Depth 26 M Date 8/21/87
Lat 40 25.1N Lon 73 45.0W Time 1248

Depth	Temp	Salinity	Sigma-t	Oxygen
2	24.17	30.503	20.221	
4	24.16	30.510	20.229	
5	24.13	30.538	20.259	
8	23.54	30.819	20.641	
9	22.44	31.336	21.342	
11	21.19	31.351	21.695	
14	19.26	31.386	22.223	
15	17.42	31.536	22.785	
18	15.74	31.538	23.169	
20	15.31	31.584	23.298	
21	14.12	31.748	23.675	
23	13.07	31.840	23.957	
25	11.09	32.119	24.541	







Sta 55 Depth 11 M Date 8/21/87
Lat 40 31.0N Lon 73 52.0W Time 1530

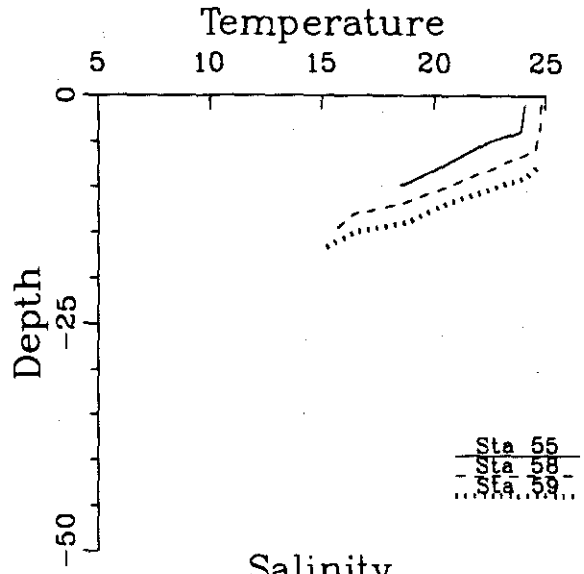
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.07	29.751	19.684	
4	23.89	30.028	19.944	
5	22.48	30.482	20.686	
8	20.19	30.843	21.573	
10	18.50	31.154	22.235	

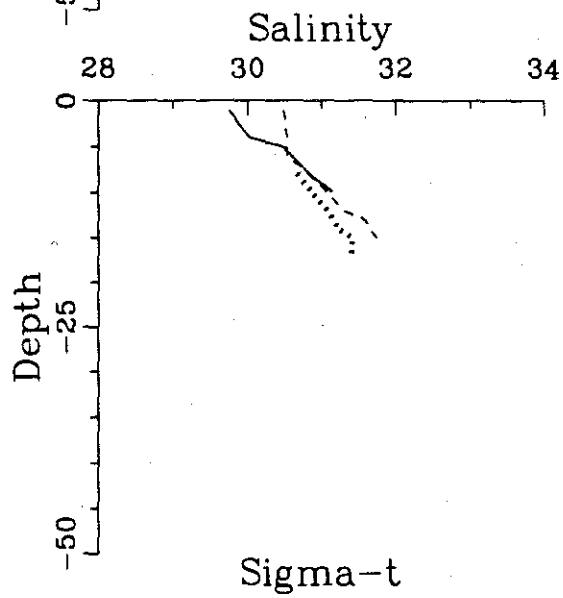
Sta 58 Depth 17 M Date 8/21/87
Lat 40 18.9N Lon 73 56.0W Time 2206

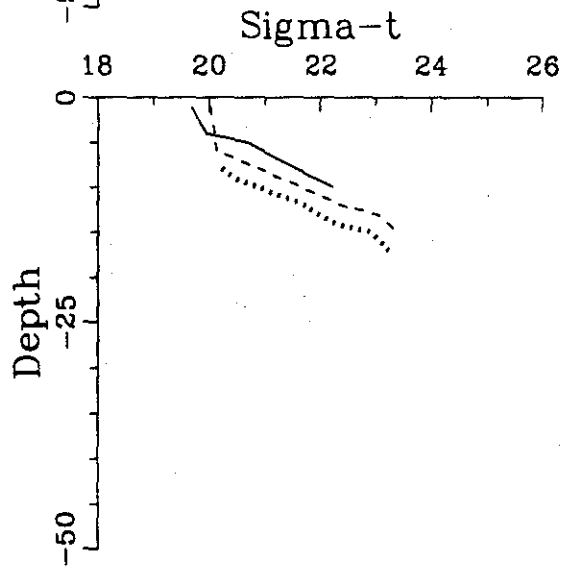
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.82	30.490	20.020	
4	24.74	30.544	20.084	
6	24.57	30.536	20.128	
7	23.65	30.699	20.519	
10	20.61	31.090	21.651	
12	18.39	31.302	22.374	
13	16.49	31.585	23.038	
15	15.49	31.758	23.393	

Sta 59 Depth 18 M Date 8/22/87
Lat 40 10.0N Lon 73 54.0W Time 124

Depth	Temp	Salinity	Sigma-t	Oxygen
8	24.58	30.674	20.229	
9	24.15	30.771	20.428	
12	20.41	31.089	21.703	
14	18.78	31.235	22.228	
15	16.51	31.425	22.911	
17	14.99	31.414	23.237	







Sta 61 Depth 59 M Date 8/22/87
Lat 40 13.5N Lon 73 46.2W Time 418

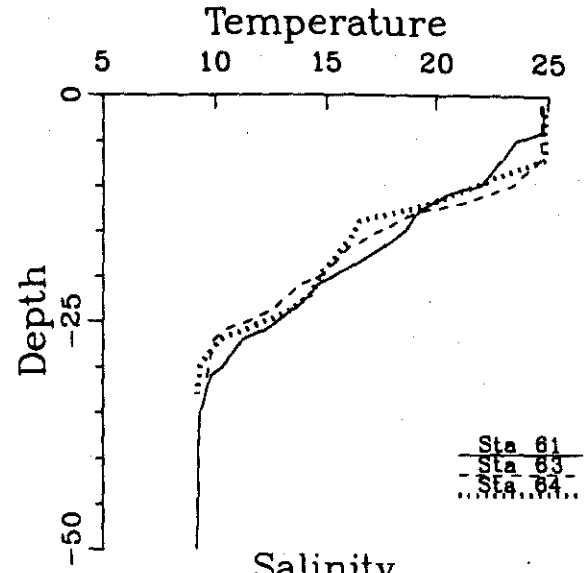
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.77	30.786	20.257	
4	24.78	30.778	20.248	
5	23.54	31.269	20.980	
7	22.97	31.422	21.258	
10	21.95	31.358	21.494	
13	19.14	31.148	22.072	
15	18.63	31.207	22.243	
17	17.50	31.291	22.579	
21	14.62	31.721	23.551	
23	13.92	32.077	23.970	
26	12.25	32.026	24.258	
27	11.21	32.028	24.449	
30	10.36	32.154	24.694	
34	9.50	32.293	24.944	
35	9.36	32.312	24.981	
40	9.26	32.340	25.019	
45	9.24	32.347	25.028	
50	9.17	32.394	25.075	
57	8.83	32.524	25.230	

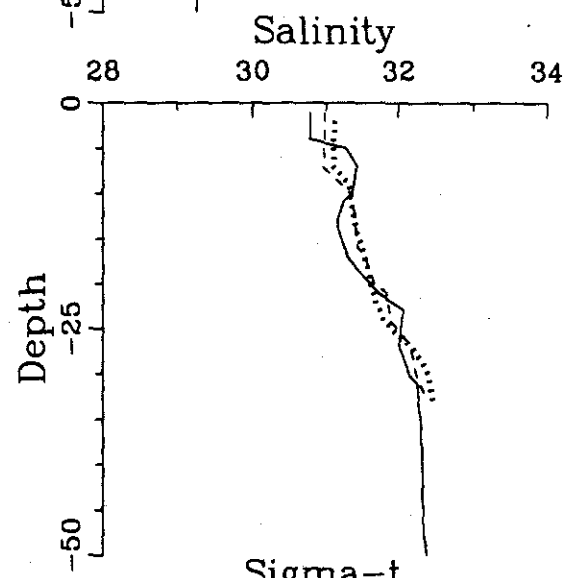
Sta 63 Depth 34 M Date 8/22/87
Lat 40 13.0N Lon 73 40.0W Time 612

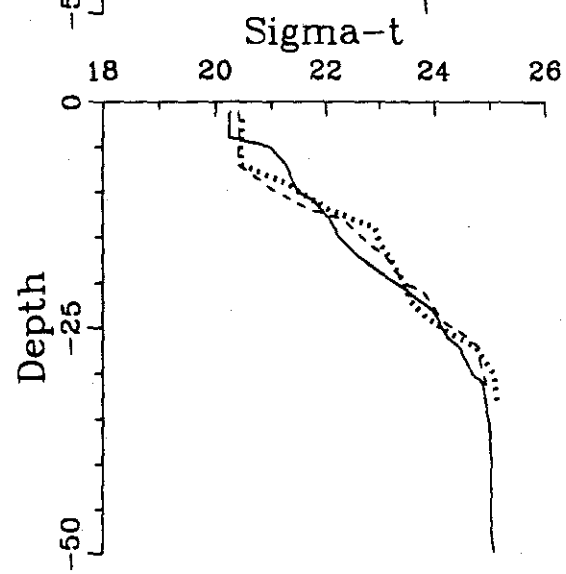
Depth	Temp	Salinity	Sigma-t	Oxygen
1	24.68	30.985	20.434	
4	24.68	30.977	20.428	
6	24.69	30.974	20.422	
7	24.69	30.968	20.418	
10	23.36	31.328	21.076	
12	21.15	31.389	21.734	
13	19.08	31.417	22.291	
16	16.73	31.429	22.864	
17	15.99	31.545	23.119	
20	14.80	31.659	23.465	
21	13.79	31.845	23.817	
24	12.47	31.889	24.110	
26	10.48	32.087	24.622	
27	9.94	32.186	24.789	
30	9.75	32.256	24.875	
32	9.55	32.354	24.984	

Sta 64 Depth 36 M Date 8/22/87
Lat 40 10.0N Lon 73 36.0W Time 718

Depth	Temp	Salinity	Sigma-t	Oxygen
2	24.85	31.118	20.483	
4	24.87	31.106	20.468	
5	24.86	31.106	20.471	
7	24.86	31.103	20.469	
9	22.72	31.311	21.245	
12	19.78	31.371	22.079	
14	16.50	31.417	22.907	
16	16.07	31.493	23.062	
18	15.37	31.569	23.274	
20	14.69	31.620	23.458	
22	14.32	31.683	23.584	
24	13.26	31.802	23.890	
26	11.27	32.022	24.434	
27	10.21	32.200	24.755	
30	9.35	32.418	25.066	
32	9.26	32.453	25.107	
33	9.23	32.470	25.125	







Sta 70 Depth 19 M Date 8/22/87
Lat 40 23.5N Lon 73 52.0W Time 1830

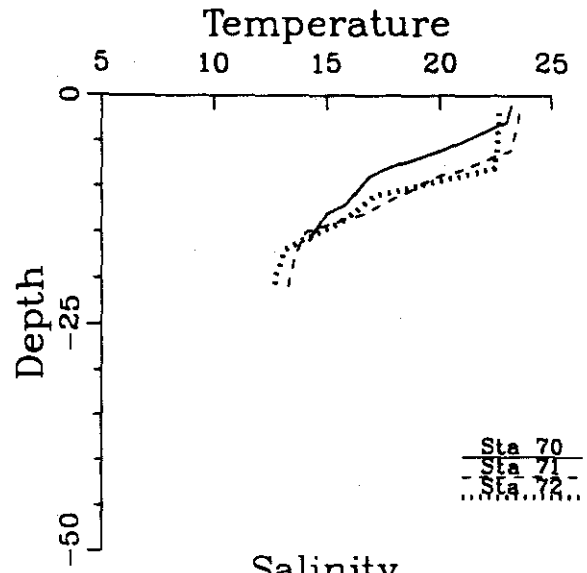
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.23	30.721	20.656	
3	23.00	30.754	20.746	
6	20.14	31.147	21.817	
8	17.65	31.368	22.602	
9	16.86	31.562	22.935	
12	15.85	31.648	23.229	
13	14.99	31.719	23.471	
16	14.19	31.835	23.728	

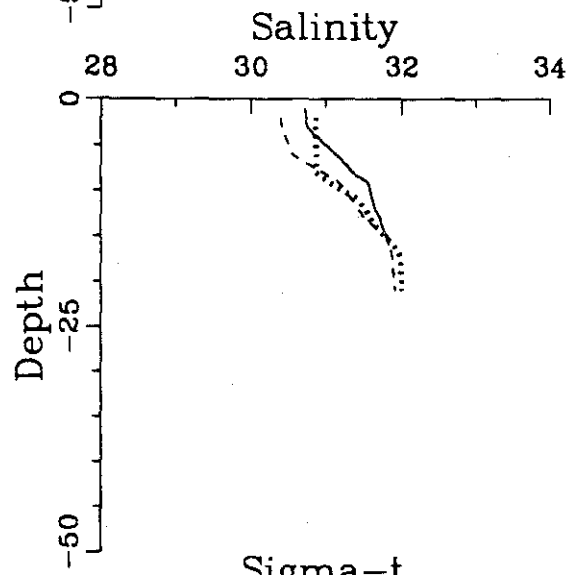
Sta 71 Depth 22 M Date 8/22/87
Lat 40 25.0N Lon 73 54.1W Time 1918

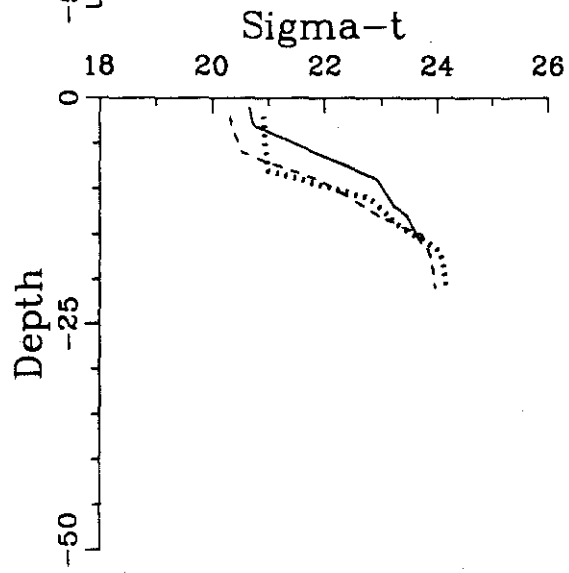
Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.53	30.406	20.333	
3	23.50	30.414	20.347	
6	23.22	30.552	20.531	
8	21.15	30.975	21.421	
9	19.85	31.184	21.920	
12	17.39	31.434	22.714	
13	16.65	31.509	22.943	
15	14.10	31.825	23.739	
18	13.53	31.894	23.907	
20	13.37	31.910	23.952	
21	13.31	31.920	23.971	

Sta 72 Depth 21 M Date 8/22/87
Lat 40 22.0N Lon 73 54.0W Time 2030

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.64	30.868	20.933	
3	22.64	30.870	20.934	
5	22.62	30.873	20.942	
8	22.44	30.884	21.001	
9	20.74	31.044	21.582	
11	17.12	31.438	22.780	
14	15.61	31.675	23.303	
16	13.84	31.897	23.847	
17	13.11	31.976	24.054	
20	12.74	32.013	24.154	
21	12.73	32.014	24.157	







Sta 77 Depth 23 M Date 8/23/87
Lat 40 19.0N Lon 73 40.0W Time 506

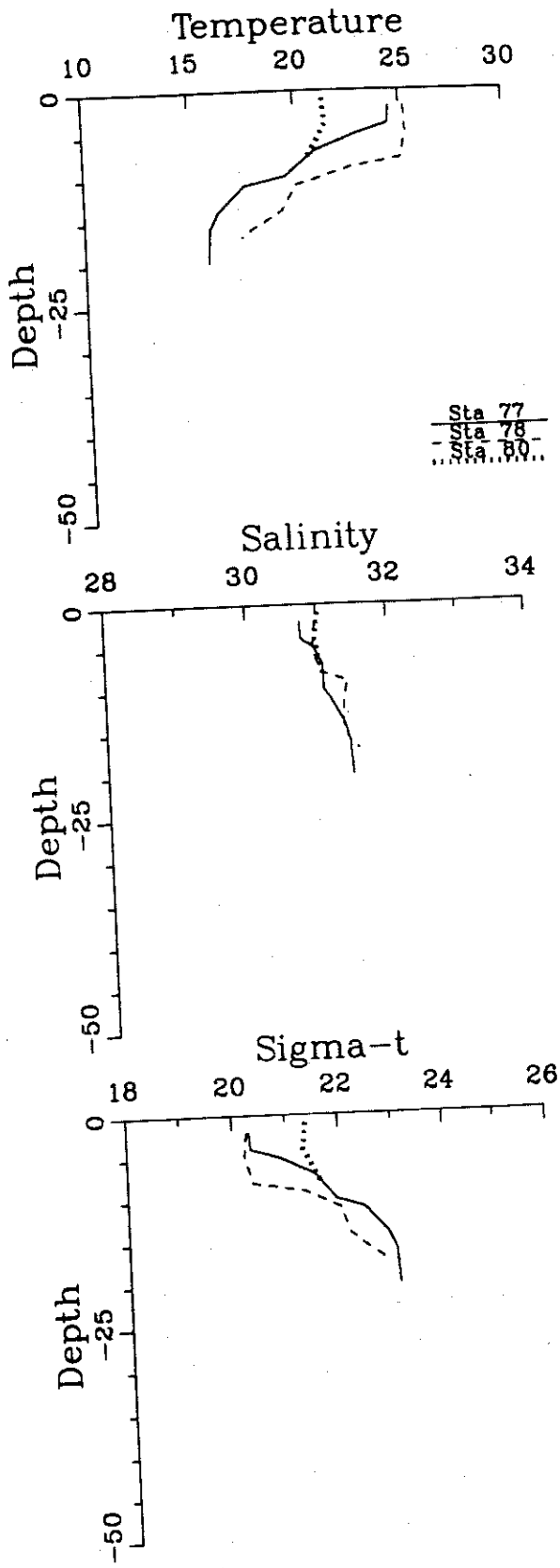
Depth	Temp	Salinity	Sigma-t	Oxygen
2	24.52	30.777	20.324	
4	24.47	30.787	20.347	
5	23.06	30.959	20.883	
7	20.96	31.078	21.550	
10	19.48	31.089	21.942	
11	17.56	31.177	22.478	
14	16.31	31.370	22.914	
16	15.89	31.439	23.060	
18	15.84	31.456	23.084	
20	15.81	31.472	23.103	

Sta 78 Depth 20 M Date 8/23/87
Lat 40 25.0N Lon 73 38.0W Time 700

Depth	Temp	Salinity	Sigma-t	Oxygen
2	25.22	30.990	20.276	
3	25.25	30.973	20.254	
5	25.28	30.949	20.227	
8	25.02	31.044	20.377	
9	22.70	31.434	21.343	
11	20.01	31.371	22.020	
14	19.30	31.355	22.189	
16	17.92	31.437	22.591	
17	17.36	31.560	22.817	

Sta 80 Depth 9 M Date 8/23/87
Lat 40 33.9N Lon 73 36.0W Time 1048

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.37	31.022	21.398	
4	21.47	30.978	21.337	
6	21.01	31.019	21.492	
8	20.52	31.071	21.660	



Sta 88 Depth 37 M Date 8/24/87
Lat 40 10.0N Lon 73 44.1W Time 0

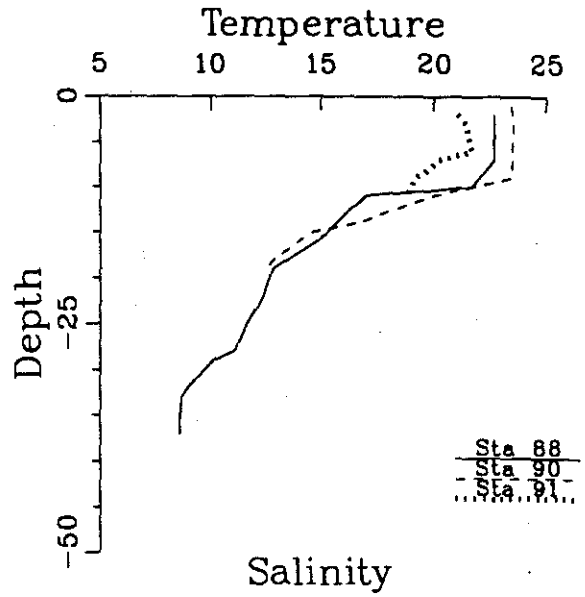
Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.66	31.388	21.320	
4	22.66	31.389	21.321	
5	22.66	31.390	21.321	
7	22.66	31.390	21.321	
10	21.70	31.369	21.571	
11	16.99	31.531	22.882	
13	16.06	31.531	23.093	
16	14.90	31.680	23.460	
18	13.49	31.928	23.942	
19	12.83	32.016	24.139	
22	12.40	32.058	24.254	
23	12.18	32.055	24.293	
25	11.67	32.076	24.404	
28	11.09	32.189	24.595	
29	10.11	32.313	24.860	
32	8.95	32.409	25.121	
33	8.66	32.474	25.217	
36	8.59	32.488	25.238	
37	8.59	32.491	25.241	

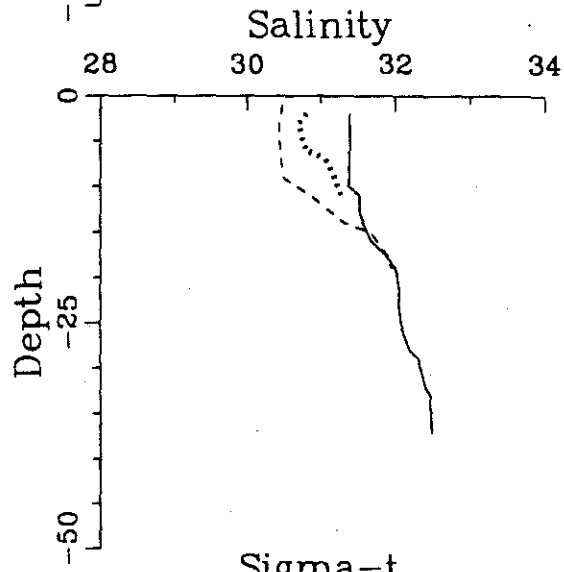
Sta 90 Depth 20 M Date 8/24/87
Lat 40 13.1N Lon 73 54.0W Time 254

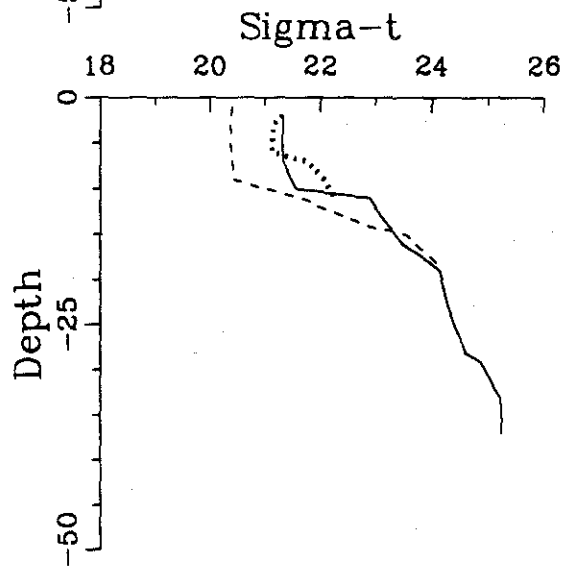
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.46	30.473	20.403	
3	23.51	30.440	20.364	
5	23.50	30.442	20.368	
8	23.46	30.476	20.405	
9	23.41	30.496	20.435	
11	19.94	30.855	21.647	
14	16.63	31.328	22.809	
15	14.62	31.684	23.522	
18	12.85	31.926	24.066	
19	12.55	31.955	24.146	

Sta 91 Depth 14 M Date 8/24/87
Lat 40 15.9N Lon 73 58.0W Time 412

Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.07	30.809	21.317	
3	21.40	30.706	21.150	
6	21.70	30.791	21.134	
7	20.23	31.072	21.737	
9	19.22	31.181	22.077	
11	18.80	31.280	22.257	







Sta 94 Depth 27 M Date 8/ 0/87
Lat 40 16.0N Lon 73 42.0W Time 0

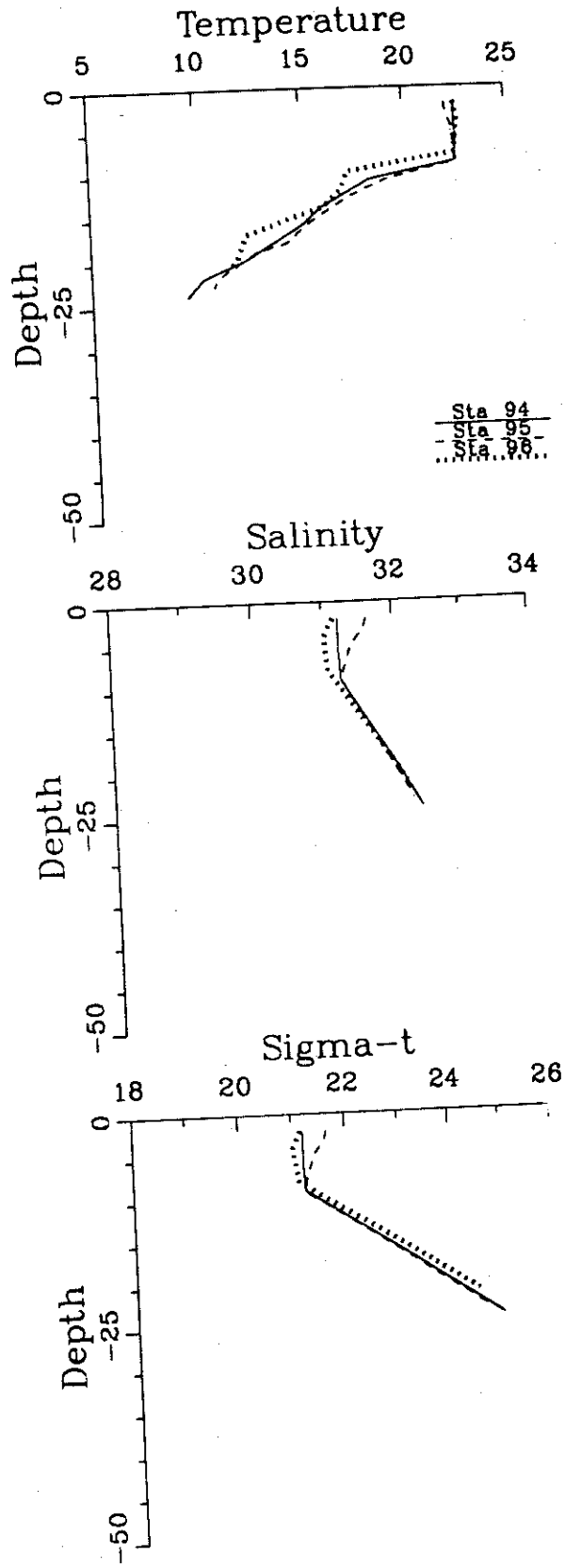
Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.57	31.228	21.224	
4	22.57	31.229	21.225	
6	22.59	31.227	21.218	
7	22.57	31.233	21.228	
9	22.50	31.245	21.257	
11	18.22			
14	15.88			
16	14.98			
18	13.56			
20	12.18			
22	10.25			
24	9.49	32.371	25.007	

Sta 95 Depth 26 M Date 8/24/87
Lat 40 16.0N Lon 73 38.1W Time 936

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.11	31.629	21.655	
3	22.15	31.597	21.620	
5	22.42	31.404	21.399	
9	22.59	31.245	21.231	
11	19.05			
13	17.09			
16	15.16			
18	14.24			
19	12.81			
22	10.90			
23	10.76	32.237	24.690	

Sta 96 Depth 23 M Date 8/24/87
Lat 40 24.0N Lon 73 44.3W Time 1148

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.54	31.153	21.176	
4	22.72	31.025	21.029	
8	22.46	31.069	21.135	
10	17.14			
12	16.84			
14	15.96			
15	14.68			
17	12.29			
20	11.84			
21	11.35	32.147	24.516	



Sta 98 Depth 16 M Date 8/24/87
Lat 40 31.1N Lon 73 37.8W Time 1442

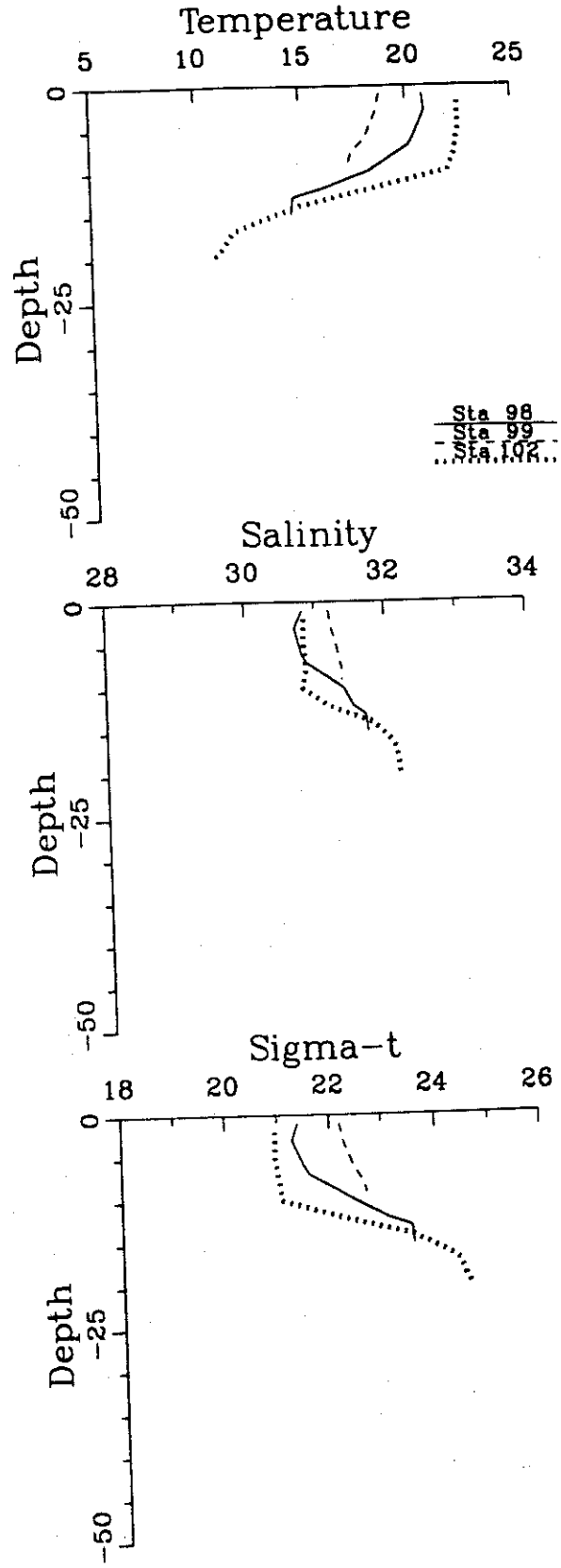
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.82	30.834	21.402	
3	20.90	30.723	21.297	
6	20.36	30.825	21.515	
7	20.13	30.892	21.626	
10	18.27	31.418	22.492	
12	16.02	31.545	23.113	
13	14.62	31.727	23.555	
15	14.56	31.749	23.585	

Sta 99 Depth 10 M Date 8/24/87
Lat 40 33.9N Lon 73 37.9W Time 1530

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.83	31.209	22.195	
3	18.66	31.247	22.266	
6	18.14	31.343	22.466	
8	17.42	31.393	22.676	
9	17.30	31.392	22.703	

Sta 102 Depth 21 M Date 8/24/87
Lat 40 31.0N Lon 73 44.0W Time 1936

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.48	30.857	20.969	
3	22.48	30.857	20.969	
5	22.48	30.855	20.968	
8	22.26	30.873	21.042	
10	21.93	30.827	21.098	
12	18.48	31.174	22.255	
14	14.95	31.826	23.561	
16	12.76	32.077	24.200	
17	11.76	32.152	24.446	
19	11.21	32.176	24.564	
20	10.80	32.200	24.655	



Sta 103 Depth 27 M Date 8/24/87
Lat 40 28.0N Lon 73 48.0W Time 2054

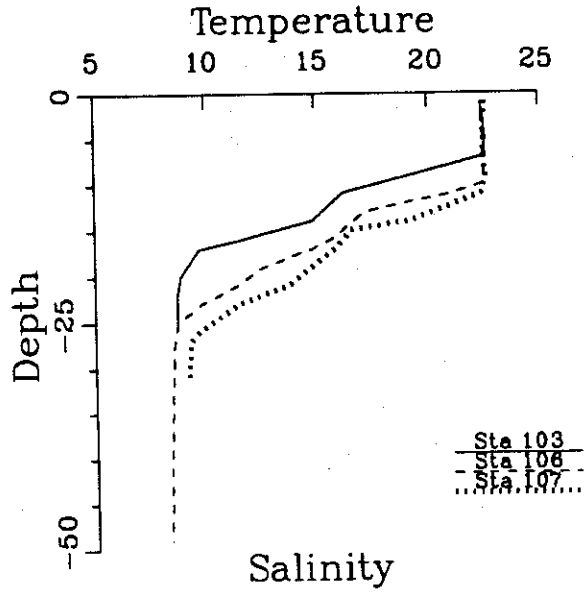
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.38	30.308	20.582	
3	22.49	30.395	20.618	
5	22.58	30.563	20.719	
7	22.42	30.608	20.798	
9	19.35	31.054	21.948	
11	16.23	31.521	23.047	
14	14.86	31.678	23.467	
16	11.68	32.044	24.377	
17	9.70	32.262	24.888	
20	8.87	32.398	25.125	
22	8.72	32.434	25.176	
23	8.71	32.441	25.183	
25	8.72	32.445	25.185	

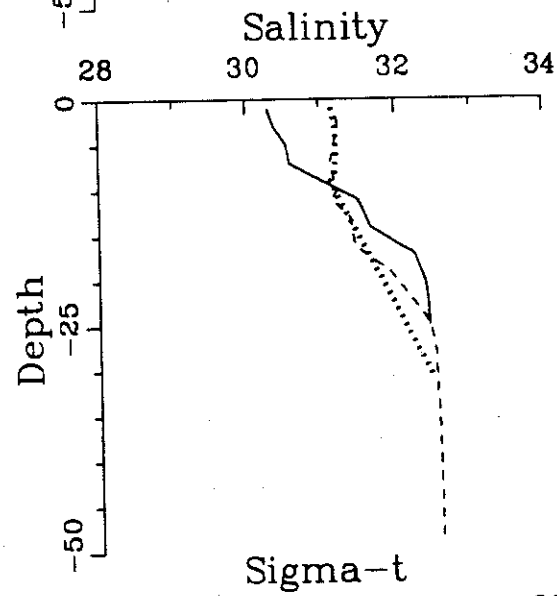
Sta 106 Depth 57 M Date 8/25/87
Lat 40 17.5N Lon 73 47.2W Time 200

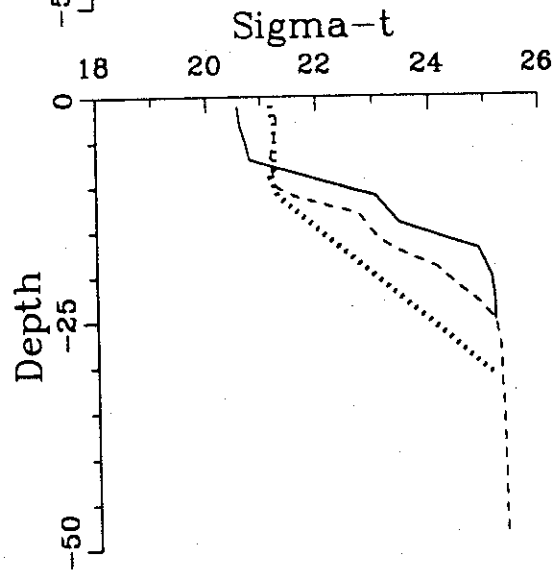
Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.42	31.251	21.283	
3	22.41	31.261	21.294	
6	22.53	31.184	21.202	
7	22.58	31.156	21.167	
10	22.44	31.248	21.276	
13	17.21	31.413	22.740	
16	15.74	31.476	23.122	
17	14.88	31.602	23.404	
21	11.41	32.118	24.483	
23	9.80	32.315	24.913	
25	8.73	32.466	25.200	
28	8.55	32.534	25.280	
30	8.53	32.539	25.287	
32	8.52	32.542	25.291	
35	8.45	32.561	25.316	
40	8.39	32.577	25.338	
46	8.37	32.585	25.347	
51	8.34	32.593	25.358	
57	8.31	32.597	25.365	

Sta 107 Depth 33 M Date 8/25/87
Lat 40 13.0N Lon 73 38.0W Time 354

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.58	31.172	21.179	
3	22.49	31.226	21.245	
6	22.48	31.235	21.255	
8	22.51	31.217	21.233	
9	22.59	31.162	21.169	
11	22.40	31.275	21.307	
14	19.23			
15	16.61			
17	15.91			
19	14.82			
21	13.78			
23	11.49			
26	9.69			
27	9.33			
30	9.24			
31	9.21	32.508	25.158	







Sta 108 Depth 34 M Date 8/25/87
Lat 40 13.0N Lon 73 44.0W Time 524

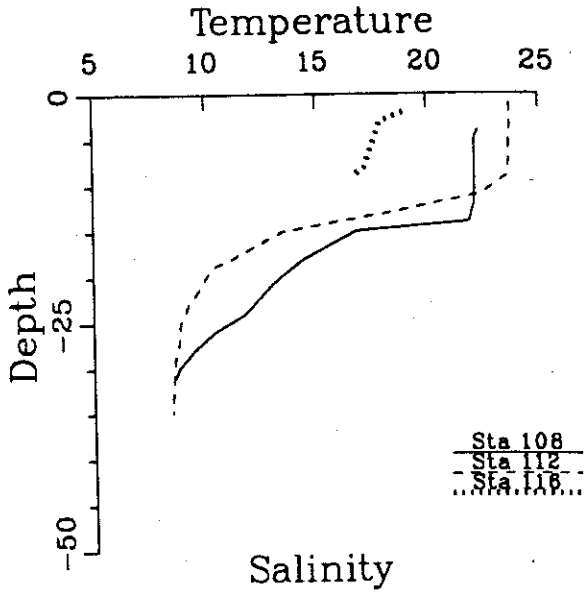
Depth	Temp	Salinity	Sigma-t	Oxygen
4	22.32	31.224	21.291	
5	22.17	31.323	21.407	
8	22.16	31.329	21.414	
9	22.17	31.321	21.406	
12	22.12	31.353	21.444	
14	21.90	31.330	21.487	
15	16.81			
18	14.45			
20	13.39			
21	12.93			
24	11.78			
26	10.42			
28	9.48			
30	8.77			
31	8.64	32.578	25.301	

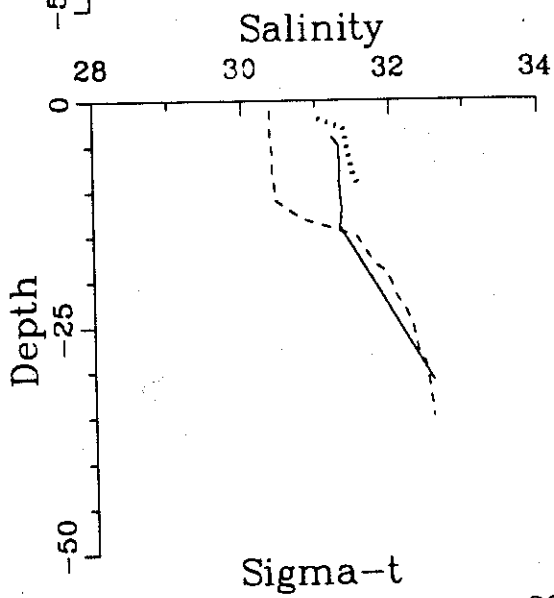
Sta 112 Depth 36 M Date 8/25/87
Lat 40 24.4N Lon 73 47.4W Time 948

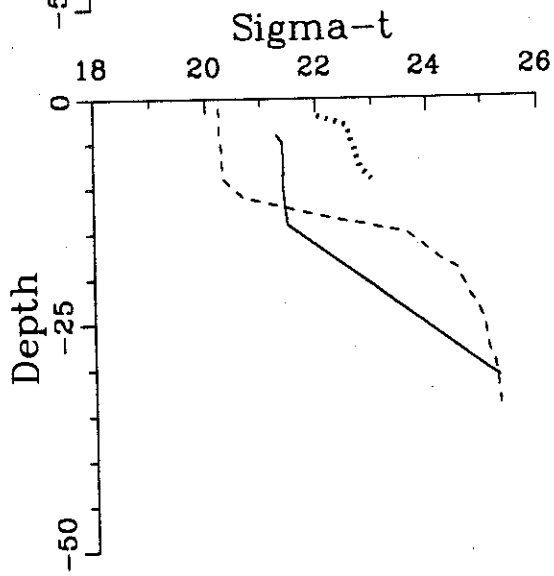
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.77	30.386	20.249	
4	23.76	30.390	20.255	
5	23.72	30.409	20.280	
8	23.68	30.418	20.299	
9	23.62	30.437	20.330	
11	22.45	30.457	20.675	
13	18.26	30.806	22.028	
15	13.51	31.550	23.646	
18	11.18	31.774	24.258	
19	10.27	31.948	24.549	
22	9.54	32.103	24.790	
23	9.22	32.197	24.914	
25	8.87	32.304	25.052	
28	8.75	32.379	25.129	
29	8.61	32.466	25.218	
32	8.53	32.529	25.279	
34	8.49	32.563	25.312	
35	8.49	32.567	25.315	

Sta 116 Depth 12 M Date 8/25/87
Lat 40 33.9N Lon 73 46.0W Time 1654

Depth	Temp	Salinity	Sigma-t	Oxygen
2	18.93	31.040	22.042	
3	17.90	31.377	22.550	
6	17.48	31.451	22.706	
8	17.18	31.503	22.816	
9	16.62	31.559	22.988	







Sta 119 Depth 11 M Date 8/25/87
Lat 40 19.0N Lon 73 58.0W Time 2042

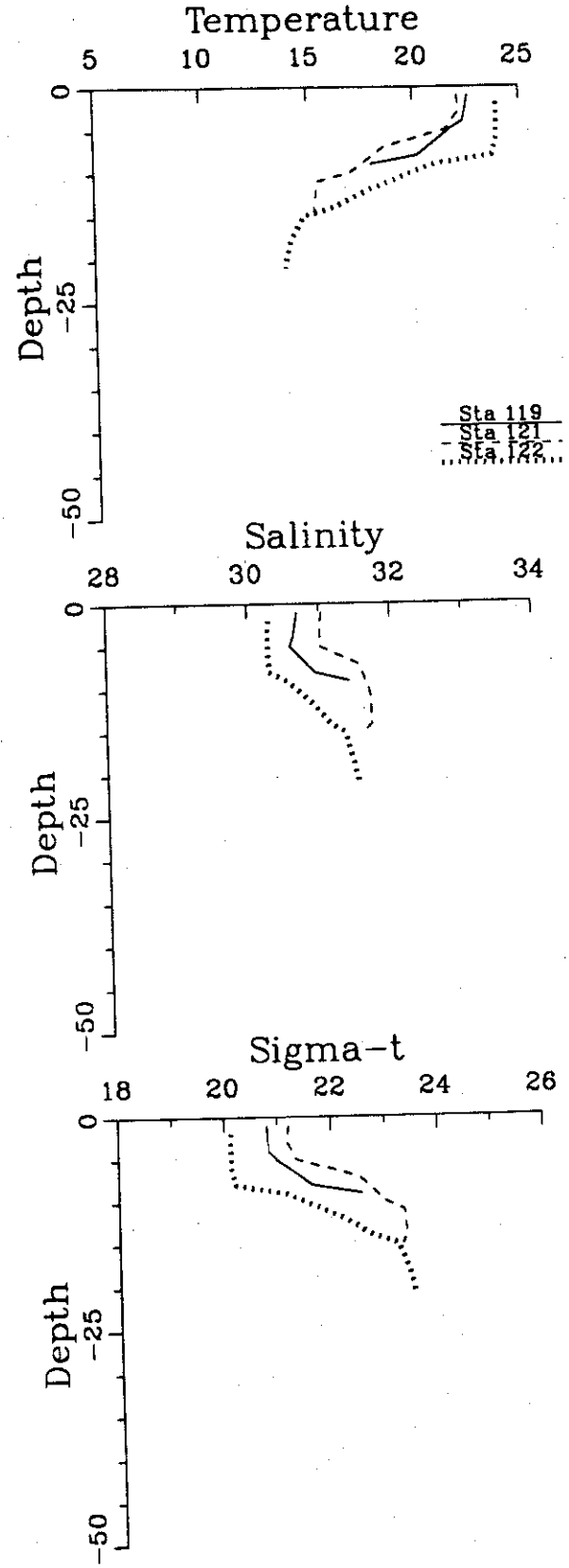
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.59	30.697	20.818	
4	22.36	30.643	20.841	
5	21.67	30.597	20.995	
8	20.19	30.940	21.647	
9	17.97	31.428	22.572	

Sta 121 Depth 16 M Date 8/25/87
Lat 40 10.0N Lon 74 0.0W Time 2312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.11	31.043	21.212	
3	22.12	31.016	21.189	
5	21.50	31.018	21.359	
7	18.63	31.551	22.505	
10	17.00	31.699	23.008	
11	15.46	31.722	23.372	
14	15.30	31.730	23.413	
15	15.33	31.632	23.331	

Sta 122 Depth 22 M Date 8/26/87
Lat 40 13.1N Lon 73 56.0W Time 30

Depth	Temp	Salinity	Sigma-t	Oxygen
2	23.94	30.305	20.139	
3	23.95	30.290	20.124	
6	23.91	30.295	20.140	
8	23.70	30.309	20.211	
9	20.99	30.553	21.144	
12	17.85	30.947	22.234	
14	16.24	31.153	22.763	
15	14.78	31.360	23.240	
18	14.16	31.456	23.443	
20	13.97	31.509	23.522	
21	13.93	31.536	23.551	

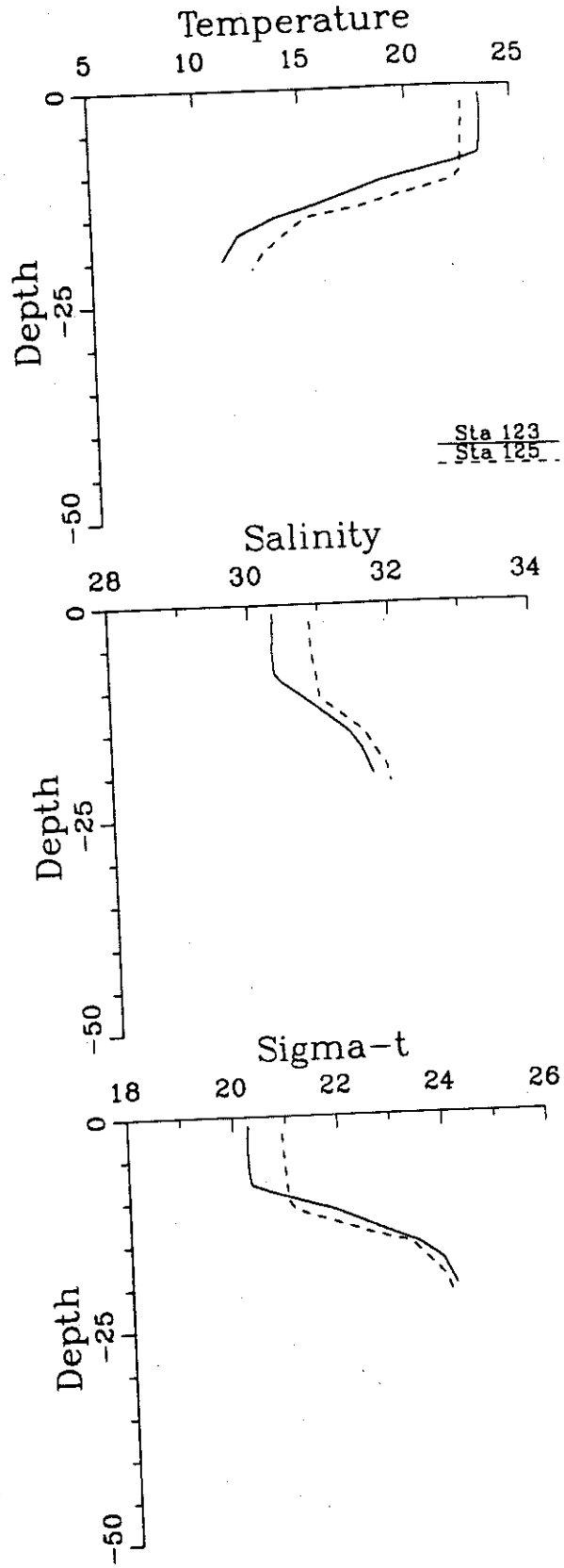


Sta 123 Depth 21 M Date 8/26/87
Lat 40 19.0N Lon 73 54.0W Time 224

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.51	30.356	20.301	
3	23.53	30.343	20.285	
6	23.51	30.337	20.286	
8	23.38	30.354	20.336	
9	22.12	30.452	20.763	
11	18.74	30.783	21.894	
14	15.15	31.249	23.076	
15	13.72	31.397	23.486	
17	11.94	31.574	23.966	
20	11.16	31.726	24.224	

Sta 125 Depth 24 M Date 8/26/87
Lat 40 22.1N Lon 73 42.0W Time 624

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.65	30.881	20.940	
4	22.63	30.892	20.954	
6	22.60	30.910	20.976	
8	22.57	30.954	21.017	
10	22.54	30.982	21.047	
11	22.16	31.000	21.166	
14	17.62	31.453	22.674	
15	15.26	31.616	23.334	
17	14.11	31.747	23.677	
19	13.12	31.915	24.005	
21	12.58	31.964	24.147	



Section D

Albatross IV 88-03
4-6 May 1988

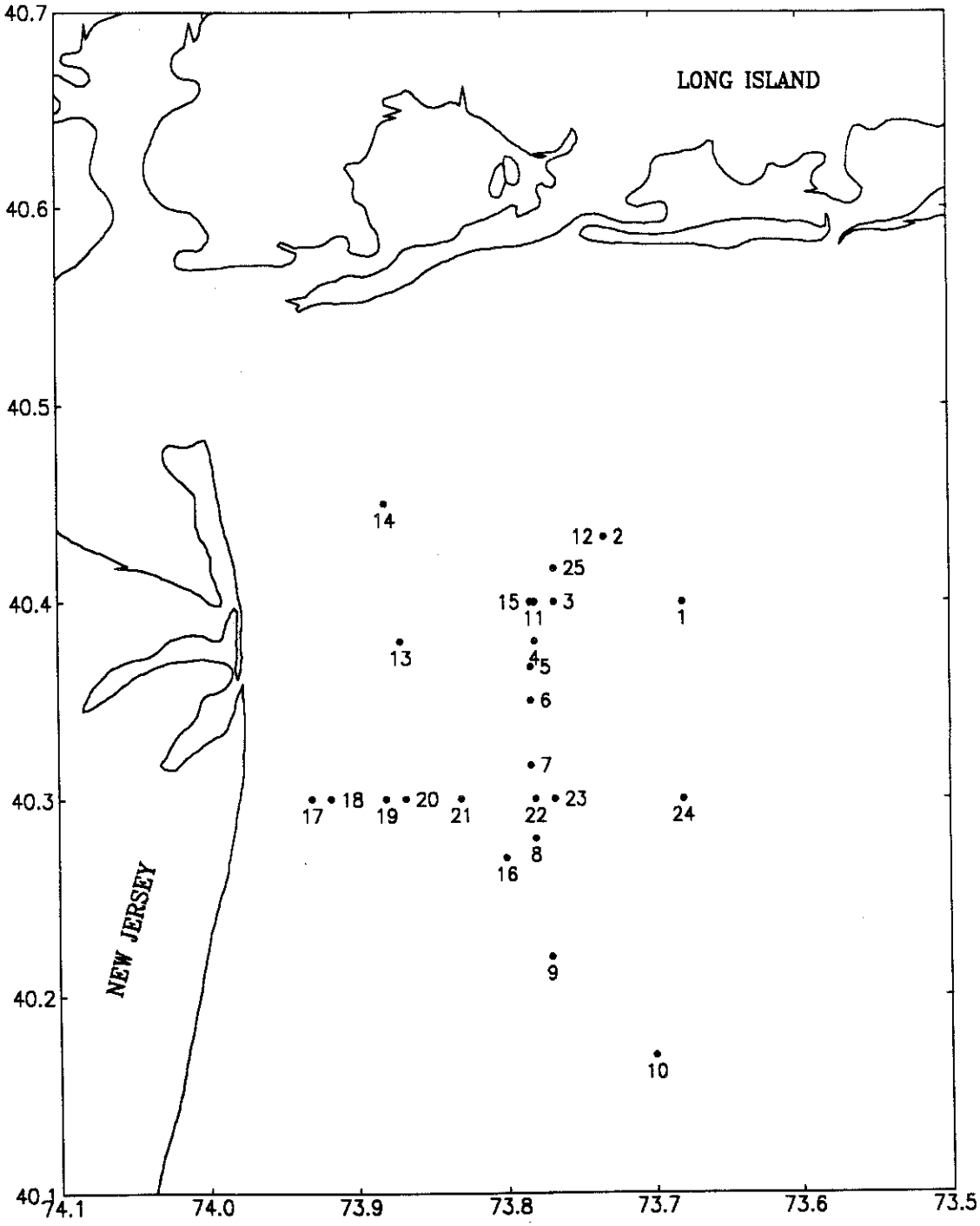


Figure D-1. Locations of CTD stations on cruise ALB88-03.

Sta 1 Depth 24 M Date 5/ 4/88
Lat 40 24.2N Lon 73 41.4W Time 1424

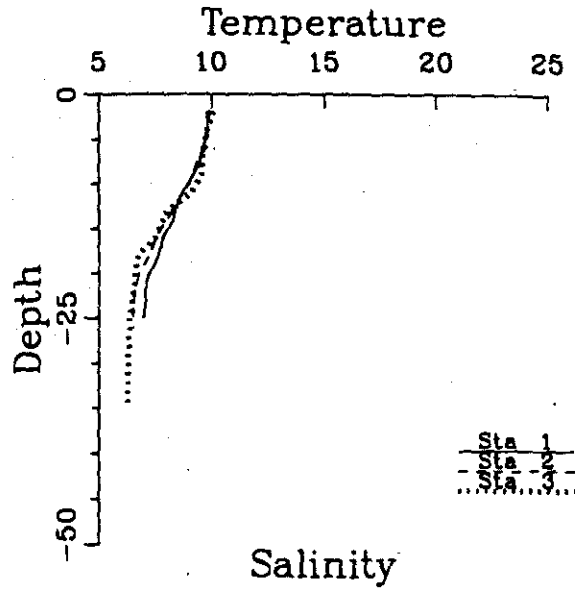
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.82	30.055	23.151	
4	9.82	30.055	23.151	
5	9.71	30.277	23.341	
8	9.43	30.732	23.739	
9	9.21	30.881	23.889	
12	8.52	31.149	24.202	
14	8.30	31.216	24.287	
16	7.86	31.336	24.444	
18	7.66	31.414	24.533	
20	7.25	31.636	24.762	
21	7.10	31.713	24.843	
24	7.05	31.741	24.872	
25	6.99	31.769	24.901	

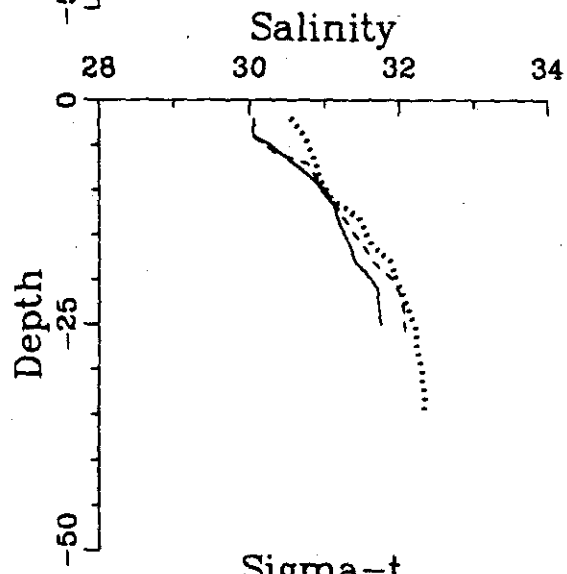
Sta 2 Depth 28 M Date 5/ 4/88
Lat 40 26.7N Lon 73 44.2W Time 1806

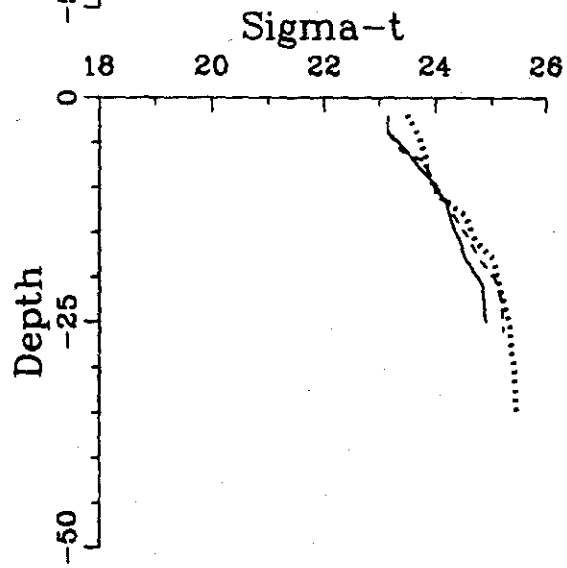
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.88	30.060	23.145	
4	9.84	30.057	23.149	
6	9.82	30.371	23.397	
7	9.45	30.769	23.765	
10	9.00	31.013	24.024	
11	8.71	31.116	24.148	
13	8.29	31.247	24.313	
16	7.52	31.508	24.625	
18	7.23	31.657	24.782	
20	6.78	31.933	25.058	
22	6.60	32.039	25.164	
24	6.55	32.080	25.203	
26	6.54	32.087	25.210	

Sta 3 Depth 36 M Date 5/ 5/88
Lat 40 24.5N Lon 73 46.9W Time 30

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.08	30.543	23.489	
4	9.82	30.731	23.677	
6	9.63	30.845	23.796	
8	9.59	30.914	23.858	
9	9.57	30.941	23.880	
11	9.14	31.094	24.066	
13	8.04	31.462	24.517	
16	7.51	31.625	24.719	
18	6.75	31.902	25.037	
19	6.65	31.933	25.074	
21	6.60	32.023	25.152	
24	6.43	32.160	25.281	
25	6.36	32.219	25.336	
28	6.33	32.248	25.363	
29	6.31	32.288	25.397	
32	6.29	32.335	25.436	
33	6.29	32.346	25.445	
35	6.28	32.349	25.449	







Sta 4 Depth 38 M Date 5/ 5/88
Lat 40 23.0N Lon 73 47.8W Time 112

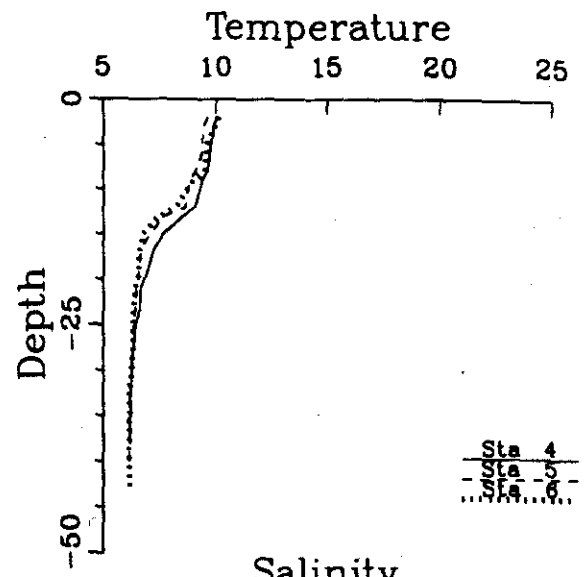
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.03	30.523	23.481	
3	9.90	30.636	23.590	
5	9.78	30.742	23.692	
8	9.60	30.865	23.816	
9	9.40	30.955	23.918	
12	9.07	31.124	24.100	
13	8.54	31.398	24.394	
15	7.63	31.757	24.805	
17	7.20	31.872	24.954	
20	6.82	31.947	25.064	
21	6.65	31.989	25.119	
24	6.56	32.096	25.214	
25	6.43	32.208	25.319	
28	6.30	32.349	25.446	
29	6.25	32.405	25.496	
32	6.22	32.428	25.518	
33	6.19	32.451	25.540	
35	6.18	32.455	25.545	
37	6.18	32.455	25.545	

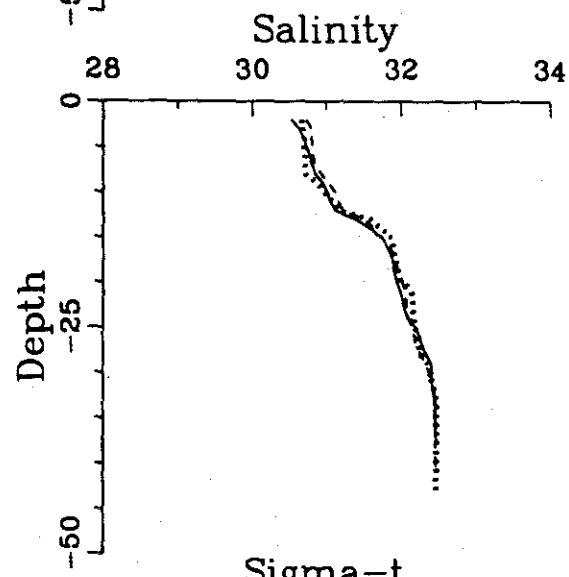
Sta 5 Depth 44 M Date 5/ 5/88
Lat 40 22.0N Lon 73 47.4W Time 154

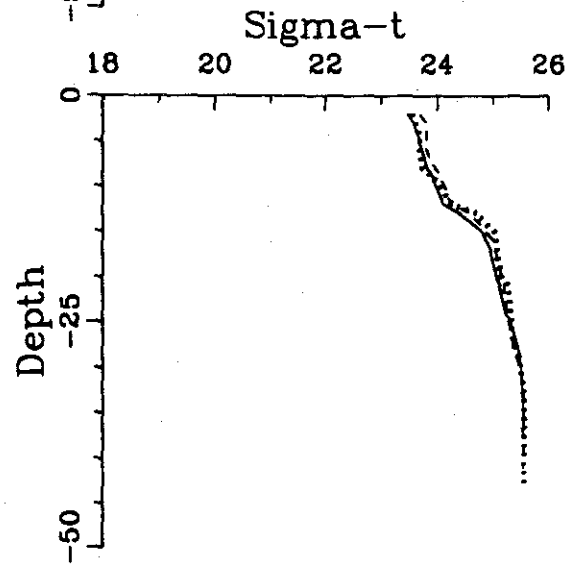
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.63	30.731	23.707	
3	9.42	30.813	23.804	
6	9.39	30.822	23.815	
7	9.22	30.865	23.875	
10	8.75	31.118	24.144	
12	8.63	31.220	24.242	
16	6.79	31.863	25.001	
17	6.66	31.899	25.046	
20	6.50	32.023	25.164	
24	6.38	32.107	25.246	
25	6.32	32.153	25.289	
27	6.31	32.219	25.343	
32	6.19	32.448	25.538	
33	6.17	32.468	25.556	
36	6.17	32.469	25.557	
40	6.17	32.469	25.557	
41	6.17	32.469	25.557	

Sta 6 Depth 42 M Date 5/ 5/88
Lat 40 21.3N Lon 73 47.4W Time 230

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.12	30.660	23.573	
4	9.75	30.712	23.673	
5	9.60	30.697	23.685	
8	9.48	30.735	23.734	
12	8.20	31.179	24.272	
13	7.42	31.586	24.700	
15	6.73	31.881	25.023	
17	6.59	31.917	25.070	
20	6.50	32.011	25.155	
23	6.33	32.168	25.300	
25	6.30	32.194	25.324	
28	6.32	32.273	25.384	
32	6.18	32.450	25.541	
33	6.14	32.472	25.563	
35	6.14	32.475	25.565	
40	6.14	32.476	25.566	
43	6.14	32.476	25.566	







Sta 7 Depth 55 M Date 5/ 5/88
Lat 40 19.5N Lon 73 47.5W Time 324

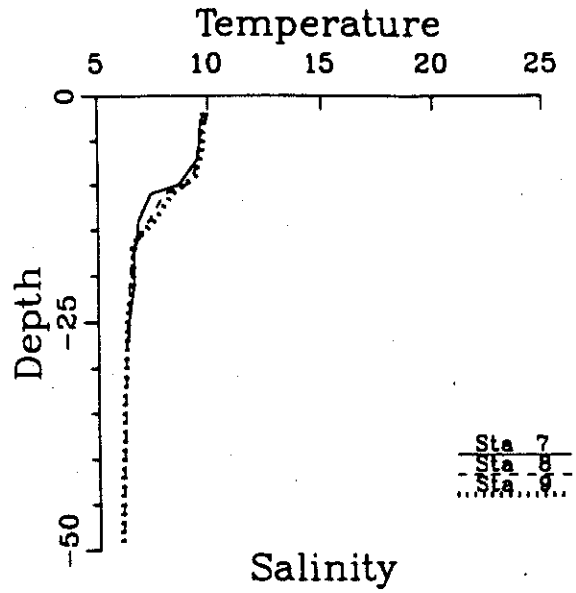
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.87	30.703	23.647	
3	9.67	30.787	23.744	
6	9.60	30.929	23.866	
7	9.56	30.966	23.901	
10	8.68	31.125	24.160	
11	7.39	31.597	24.713	
14	6.82	31.916	25.039	
16	6.75	32.005	25.118	
17	6.63	32.034	25.156	
20	6.63	32.095	25.204	
21	6.61	32.139	25.242	
24	6.42	32.196	25.311	
25	6.38	32.267	25.372	
27	6.32	32.334	25.432	

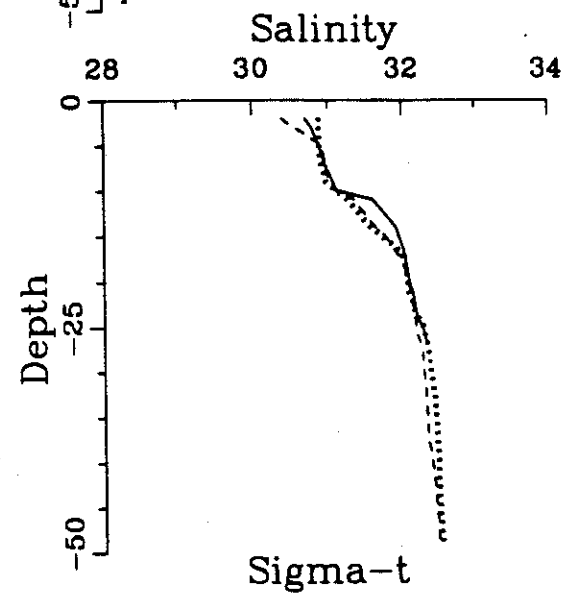
Sta 8 Depth 57 M Date 5/ 5/88
Lat 40 17.6N Lon 73 47.0W Time 406

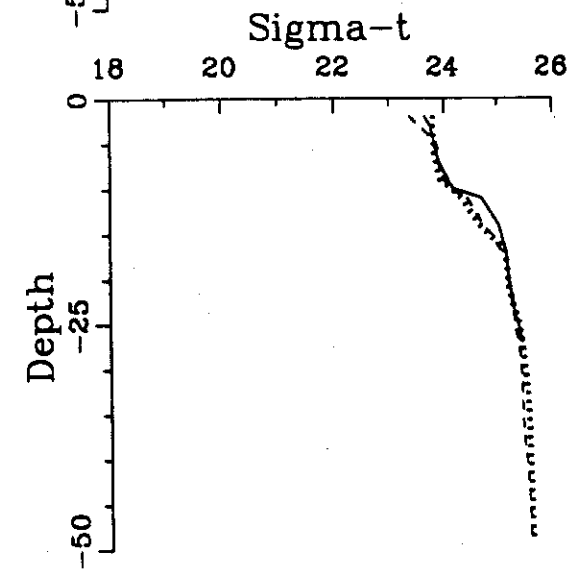
Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.00	30.389	23.382	
4	9.77	30.750	23.699	
5	9.58	30.928	23.868	
8	9.50	30.982	23.923	
10	9.03	31.106	24.092	
14	7.32	31.629	24.748	
15	7.02	31.770	24.898	
18	6.52	32.028	25.166	
20	6.45	32.071	25.208	
23	6.39	32.146	25.275	
26	6.34	32.206	25.329	
27	6.29	32.257	25.375	
32	6.23	32.310	25.424	
34	6.23	32.318	25.430	
35	6.23	32.327	25.438	
41	6.14	32.416	25.519	
46	6.08	32.464	25.564	
51	6.05	32.482	25.582	

Sta 9 Depth 63 M Date 5/ 5/88
Lat 40 13.6N Lon 73 46.2W Time 518

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.80	30.885	23.800	
3	9.81	30.884	23.797	
6	9.73	30.896	23.819	
7	9.63	30.918	23.852	
11	8.37	31.258	24.310	
14	7.55	31.569	24.669	
16	6.75	31.865	25.008	
17	6.54	32.005	25.145	
21	6.56	32.085	25.206	
23	6.40	32.160	25.285	
25	6.31	32.280	25.391	
28	6.26	32.355	25.456	
30	6.25	32.385	25.481	
32	6.21	32.416	25.510	
35	6.15	32.448	25.543	
42	6.08	32.481	25.577	
46	6.04	32.503	25.600	
52	5.94	32.569	25.664	
55	5.92	32.549	25.651	







Sta 10 Depth 65 M Date 5/ 5/88
Lat 40 10.5N Lon 73 42.5W Time 624

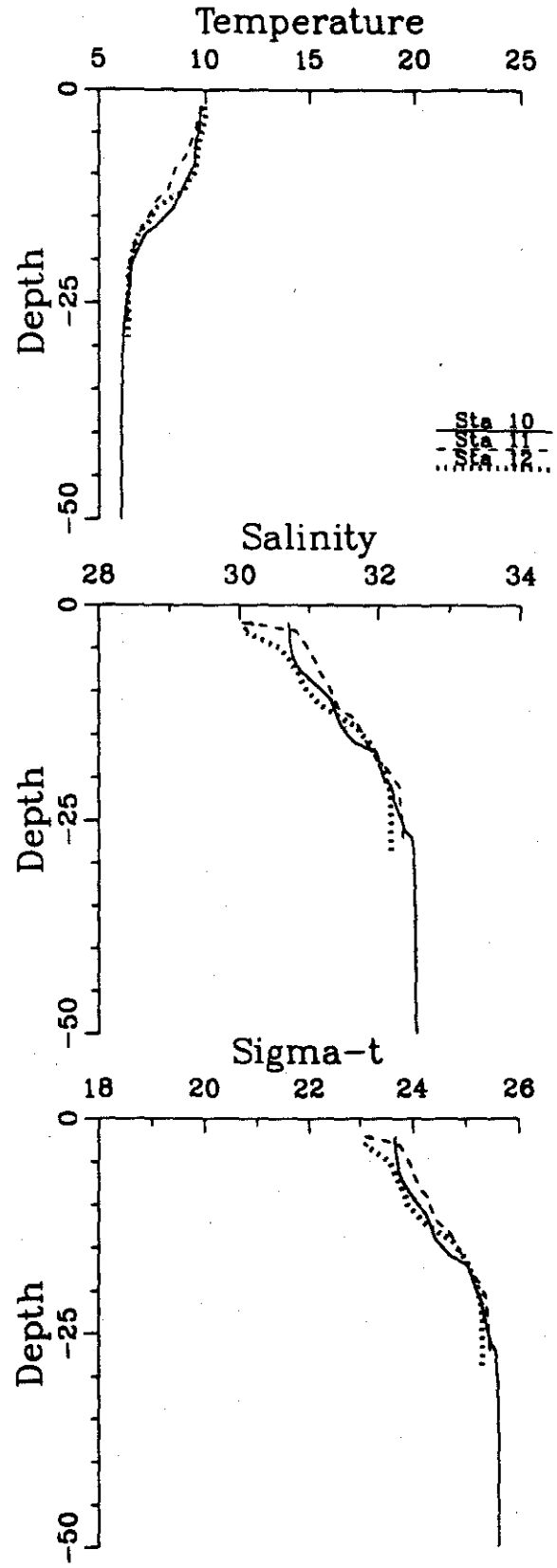
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.78	30.704	23.662	
4	9.75	30.717	23.677	
6	9.59	30.762	23.737	
7	9.52	30.815	23.790	
11	9.07	31.314	24.248	
14	8.49	31.459	24.449	
16	7.70	31.663	24.722	
17	7.17	31.978	25.042	
20	6.59	32.080	25.198	
23	6.41	32.244	25.350	
26	6.23	32.374	25.475	
27	6.18	32.476	25.561	
31	6.10	32.513	25.600	
34	6.08	32.518	25.607	
36	6.07	32.523	25.612	
42	6.03	32.533	25.624	
45	6.03	32.538	25.628	
50	6.04	32.552	25.638	
59	5.90	32.593	25.688	

Sta 11 Depth 35 M Date 5/ 5/88
Lat 40 24.4N Lon 73 47.9W Time 1042

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.93	30.029	23.113	
3	9.67	30.804	23.757	
5	9.53	30.990	23.924	
8	9.03	31.170	24.142	
9	8.65	31.262	24.271	
12	8.21	31.432	24.469	
13	7.73	31.638	24.698	
16	7.09	31.846	24.949	
18	6.66	31.990	25.118	
19	6.56	32.131	25.242	
21	6.39	32.296	25.393	
23	6.36	32.322	25.417	
26	6.34	32.339	25.433	
27	6.32	32.353	25.447	

Sta 12 Depth 29 M Date 5/ 5/88
Lat 40 26.7N Lon 73 44.6W Time 1430

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.99	30.174	23.216	
3	10.02	30.040	23.107	
5	9.81	30.581	23.562	
8	9.61	30.840	23.795	
10	9.46	30.965	23.916	
12	8.91	31.221	24.200	
14	7.69	31.661	24.722	
16	7.19	31.889	24.969	
17	6.84	31.937	25.053	
19	6.56	32.068	25.192	
22	6.37	32.176	25.301	
23	6.37	32.179	25.304	
26	6.37	32.181	25.305	
28	6.37	32.181	25.305	
29	6.37	32.181	25.305	



Sta 13 Depth 20 M Date 5/ 5/88
Lat 40 23.5N Lon 73 52.1W Time 1718

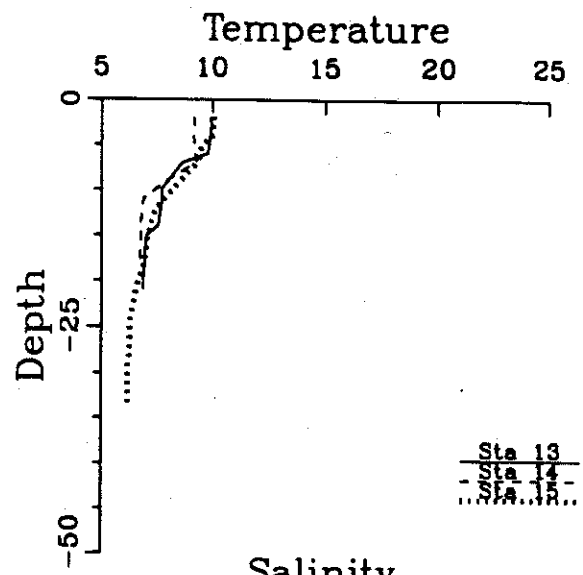
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.93	29.736	22.885	
3	9.96	29.777	22.913	
6	9.81	30.084	23.175	
7	8.66	31.221	24.238	
10	7.72	31.592	24.664	
11	7.74	31.581	24.652	
14	7.58	31.682	24.754	
15	7.03	31.961	25.047	
18	6.95	32.000	25.088	
20	6.89	32.027	25.117	
21	6.89	32.030	25.120	

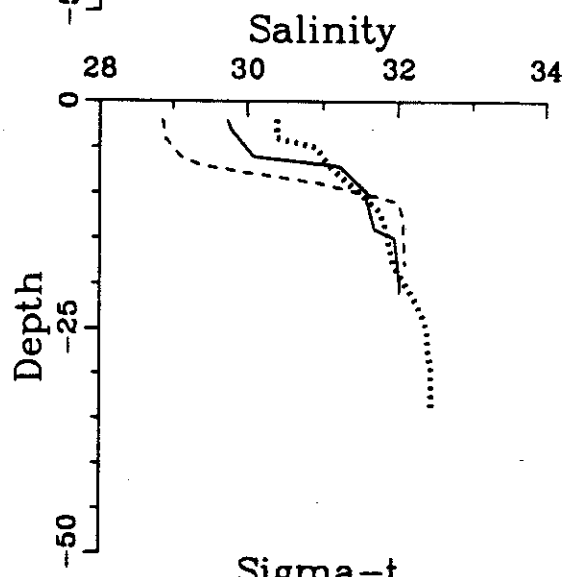
Sta 14 Depth 19 M Date 5/ 5/88
Lat 40 27.2N Lon 73 53.5W Time 1854

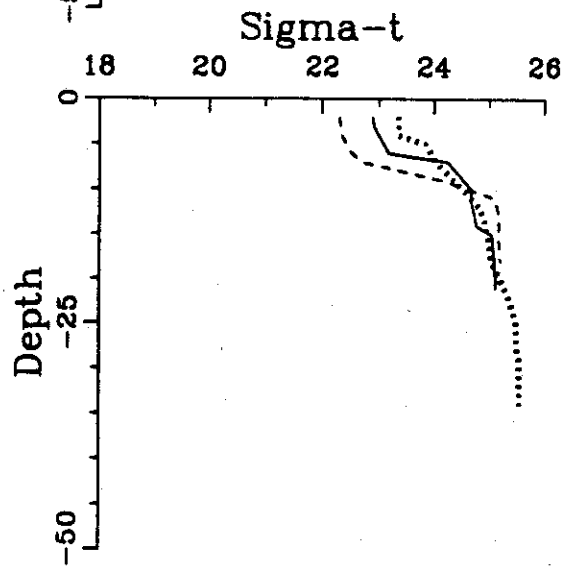
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.21	28.860	22.315	
4	9.18	28.891	22.344	
6	9.22	29.117	22.514	
7	9.32	29.387	22.709	
9	7.96	30.990	24.159	
11	6.89	32.007	25.101	
13	6.78	32.076	25.170	
16	6.76	32.085	25.180	
18	6.72	32.106	25.201	

Sta 15 Depth 36 M Date 5/ 5/88
Lat 40 24.5N Lon 73 47.7W Time 2100

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.07	30.387	23.369	
4	10.04	30.395	23.380	
5	9.56	30.913	23.860	
7	9.33	31.079	24.025	
9	8.58	31.342	24.344	
12	7.45	31.747	24.822	
14	7.18	31.837	24.930	
15	7.09	31.860	24.960	
18	6.94	31.936	25.039	
20	6.65	32.101	25.207	
22	6.46	32.251	25.349	
24	6.32	32.354	25.448	
25	6.28	32.397	25.486	
28	6.25	32.420	25.508	
29	6.19	32.453	25.542	
31	6.19	32.455	25.543	
34	6.19	32.456	25.544	







Sta 16 Depth 39 M Date 5/ 6/88
Lat 40 16.9N Lon 73 48.0W Time 130

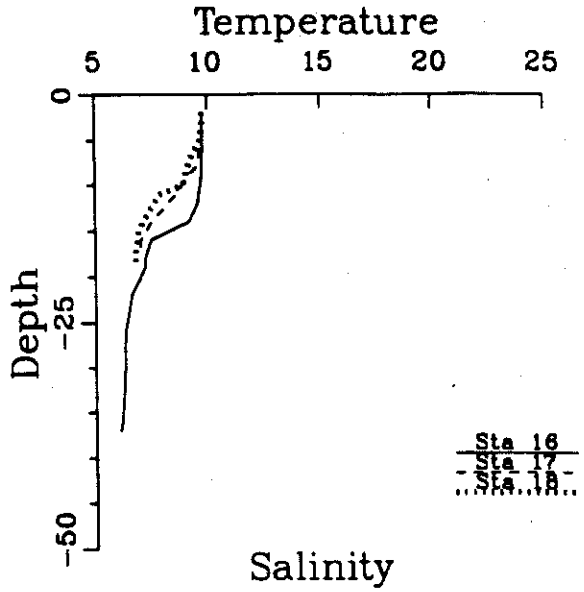
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.80	30.774	23.713	
3	9.80	30.772	23.712	
5	9.80	30.775	23.714	
7	9.79	30.782	23.721	
9	9.76	30.813	23.750	
12	9.57	30.968	23.901	
14	9.20	31.158	24.107	
16	7.50	31.583	24.687	
18	7.21	31.821	24.913	
19	7.21	31.931	24.999	
22	6.63	32.001	25.131	
24	6.49	32.113	25.236	
26	6.33	32.238	25.355	
28	6.30	32.260	25.376	
29	6.31	32.282	25.392	
32	6.27	32.361	25.459	
34	6.21	32.394	25.493	
36	6.16	32.449	25.542	
37	6.11	32.482	25.574	

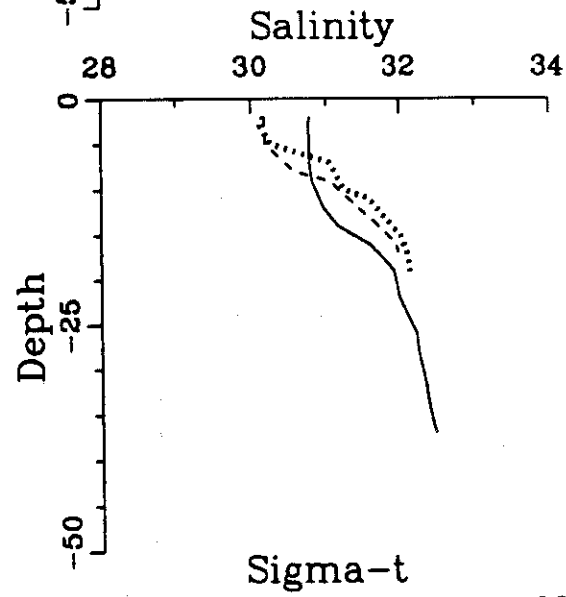
Sta 17 Depth 18 M Date 5/ 6/88
Lat 40 18.2N Lon 73 56.3W Time 224

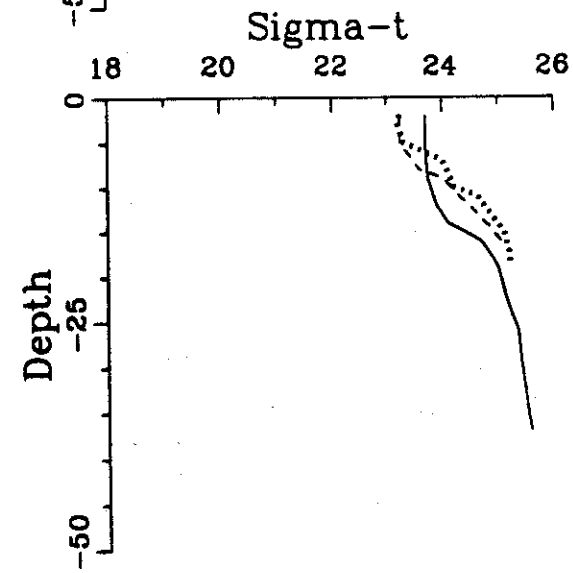
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.82	30.184	23.251	
4	9.82	30.190	23.256	
5	9.82	30.193	23.258	
8	9.52	30.574	23.602	
9	9.15	31.034	24.018	
11	8.64	31.302	24.304	
14	7.52	31.714	24.787	
16	7.04	31.958	25.043	
17	7.00	31.990	25.074	

Sta 18 Depth 21 M Date 5/ 6/88
Lat 40 18.1N Lon 73 55.8W Time 254

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.77	30.170	23.248	
3	9.79	30.130	23.214	
5	9.72	30.263	23.329	
7	9.26	31.039	24.005	
10	8.93	31.248	24.218	
11	7.89	31.582	24.632	
14	7.14	31.895	24.980	
15	6.95	32.017	25.101	
17	6.83	32.108	25.189	
19	6.78	32.148	25.227	







Sta 19 Depth 22 M Date 5/ 6/88
Lat 40 18.1N Lon 73 53.4W Time 330

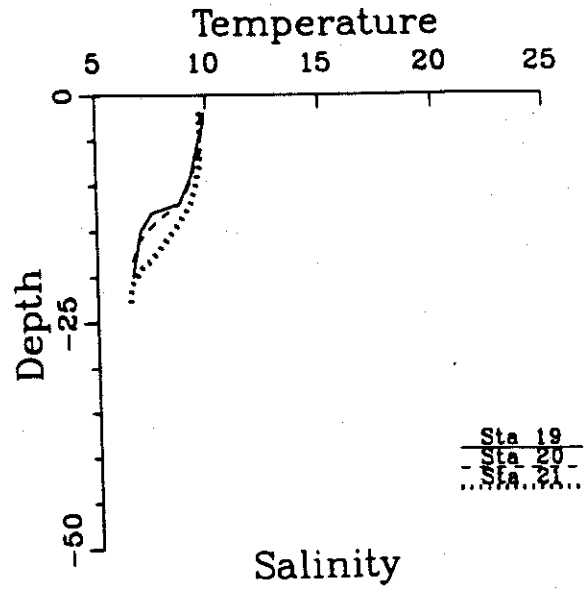
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.93	30.117	23.182	
3	9.92	30.131	23.194	
5	9.66	30.629	23.623	
8	9.39	31.173	24.089	
9	9.28	31.204	24.130	
12	8.75	31.311	24.295	
13	7.52	31.732	24.801	
15	7.00	32.005	25.085	
18	6.75	32.174	25.251	
20	6.63	32.242	25.320	

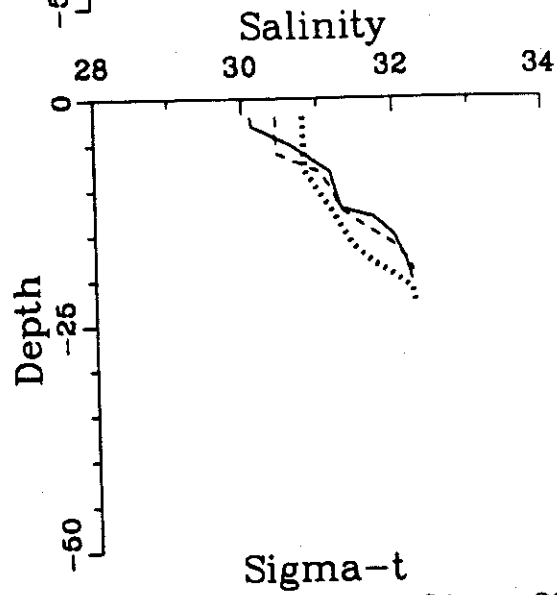
Sta 20 Depth 24 M Date 5/ 6/88
Lat 40 18.3N Lon 73 52.2W Time 412

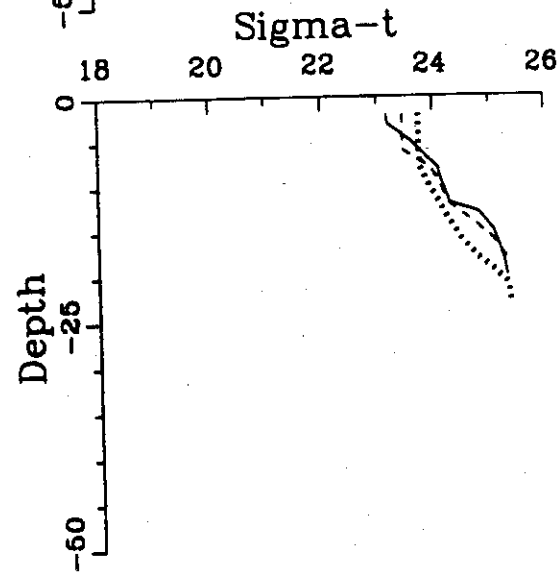
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.77	30.460	23.474	
4	9.78	30.451	23.465	
6	9.77	30.464	23.477	
8	9.45	31.029	23.967	
10	9.21	31.199	24.137	
12	8.77	31.292	24.277	
14	7.66	31.613	24.688	
16	6.94	31.985	25.078	
18	6.65	32.215	25.296	
19	6.58	32.264	25.344	

Sta 21 Depth 28 M Date 5/ 6/88
Lat 40 18.2N Lon 73 50.1W Time 448

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.71	30.813	23.758	
4	9.71	30.818	23.762	
6	9.71	30.820	23.763	
8	9.69	30.841	23.783	
10	9.50	30.997	23.935	
12	9.25	31.168	24.107	
14	8.76	31.310	24.292	
16	8.15	31.453	24.494	
18	7.50	31.706	24.783	
19	7.06	31.910	25.003	
21	6.53	32.247	25.337	
23	6.49	32.293	25.378	







Sta 22 Depth 57 M Date 5/ 6/88
Lat 40 18.2N Lon 73 47.3W Time 536

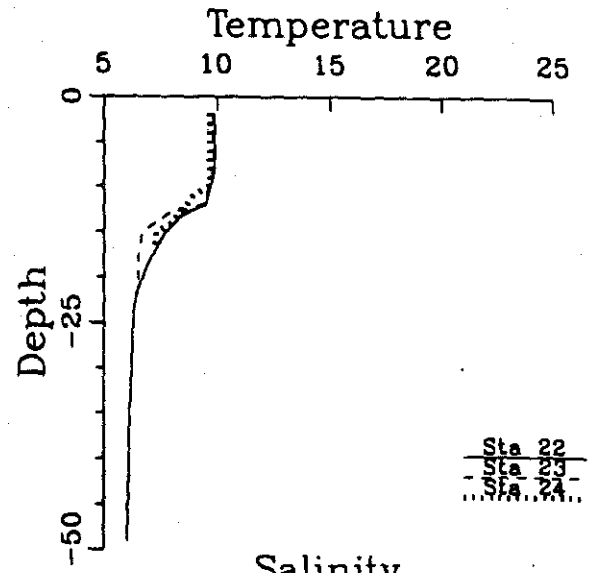
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.90	30.643	23.595	
3	9.90	30.643	23.595	
5	9.89	30.643	23.597	
8	9.89	30.650	23.602	
10	9.71	30.814	23.759	
12	9.50	30.941	23.891	
15	7.74	31.503	24.591	
18	7.04	31.817	24.933	
22	6.43	32.176	25.294	
23	6.36	32.207	25.327	
26	6.29	32.245	25.365	
28	6.29	32.256	25.374	
32	6.21	32.409	25.505	
34	6.16	32.472	25.560	
35	6.12	32.483	25.574	
40	6.10	32.491	25.583	
46	6.05	32.509	25.603	
49	6.05	32.509	25.603	

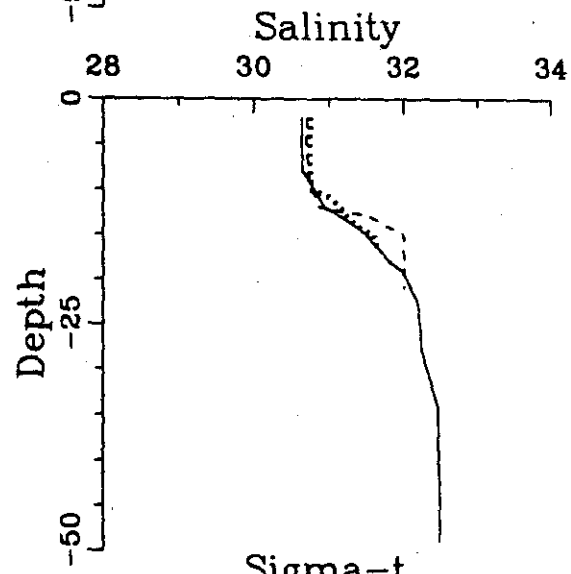
Sta 23 Depth 26 M Date 5/ 6/88
Lat 40 18.3N Lon 73 46.0W Time 648

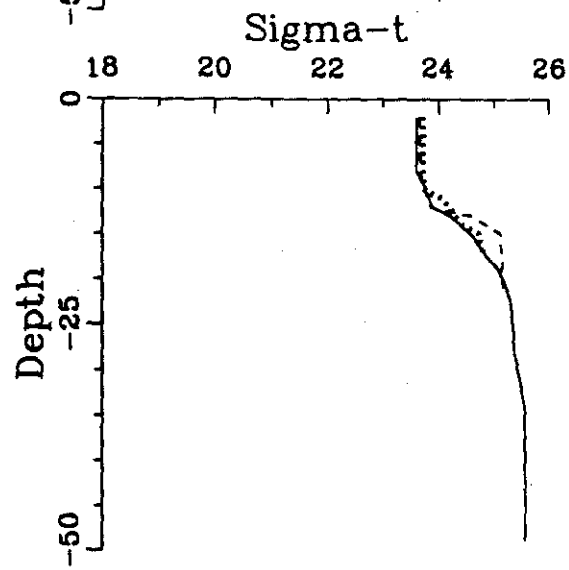
Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.84	30.709	23.656	
3	9.84	30.709	23.656	
6	9.84	30.711	23.658	
7	9.84	30.716	23.662	
9	9.78	30.737	23.688	
12	9.40	30.874	23.854	
13	7.86	31.542	24.605	
15	6.68	32.002	25.125	
18	6.53	32.022	25.160	
20	6.51	32.025	25.165	
21	6.51	32.028	25.167	

Sta 24 Depth 23 M Date 5/ 6/88
Lat 40 18.3N Lon 73 41.9W Time 748

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.67	30.752	23.717	
4	9.67	30.750	23.715	
6	9.67	30.749	23.715	
7	9.67	30.748	23.714	
10	9.64	30.764	23.731	
11	8.95	31.042	24.055	
14	8.01	31.346	24.430	
15	7.34	31.602	24.724	
17	7.17	31.678	24.806	

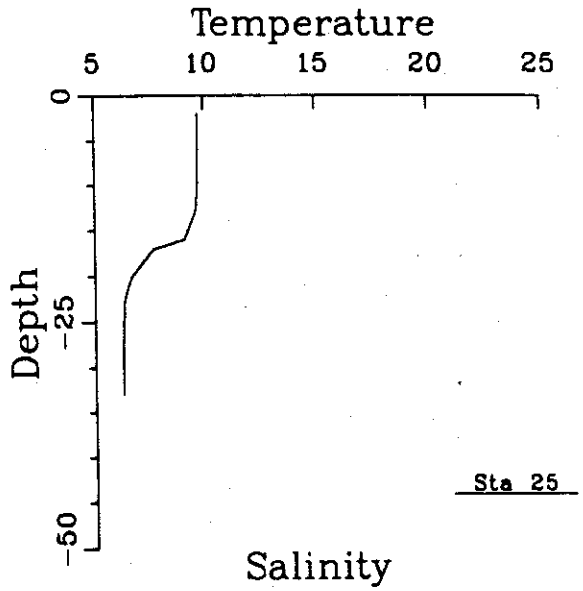


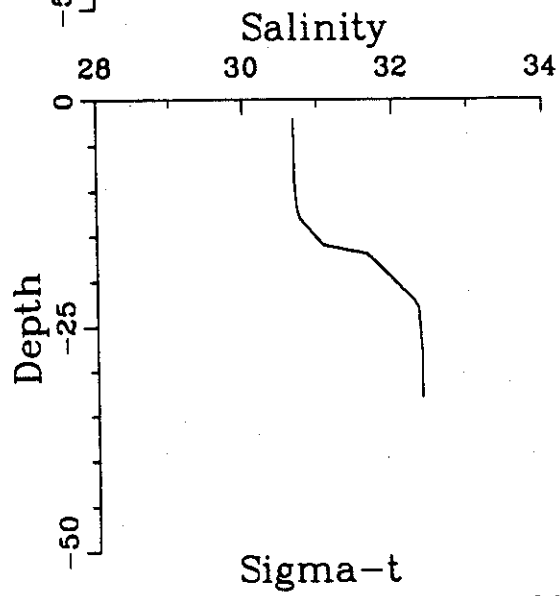


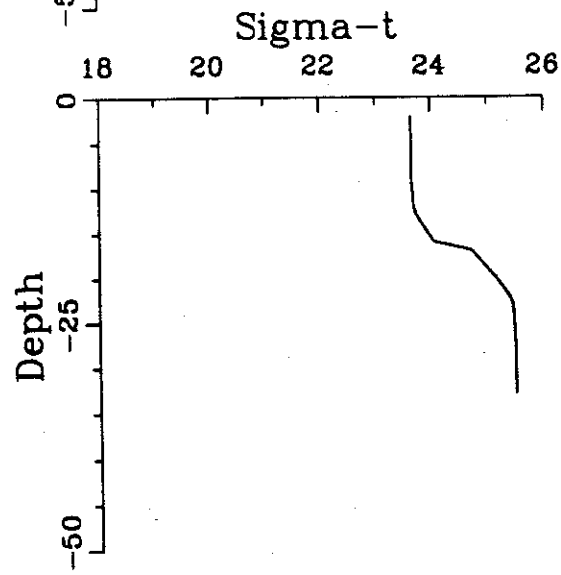


Sta 25 Depth 33 M Date 5/ 6/88
Lat 40 25.6N Lon 73 46.8W Time 1736

Depth	Temp	Salinity	Sigma-t	Oxygen
2	9.75	30.695	23.660	
3	9.75	30.692	23.658	
5	9.74	30.700	23.665	
7	9.73	30.701	23.668	
9	9.73	30.704	23.670	
12	9.67	30.732	23.701	
13	9.60	30.771	23.743	
16	9.13	31.076	24.054	
17	7.68	31.667	24.728	
20	6.71	32.035	25.147	
22	6.41	32.287	25.383	
23	6.33	32.357	25.449	
26	6.30	32.381	25.471	
28	6.28	32.395	25.485	
29	6.28	32.398	25.487	
32	6.28	32.399	25.488	
33	6.28	32.398	25.487	







Section E

Albatross IV 88-10
16-17 November 1988

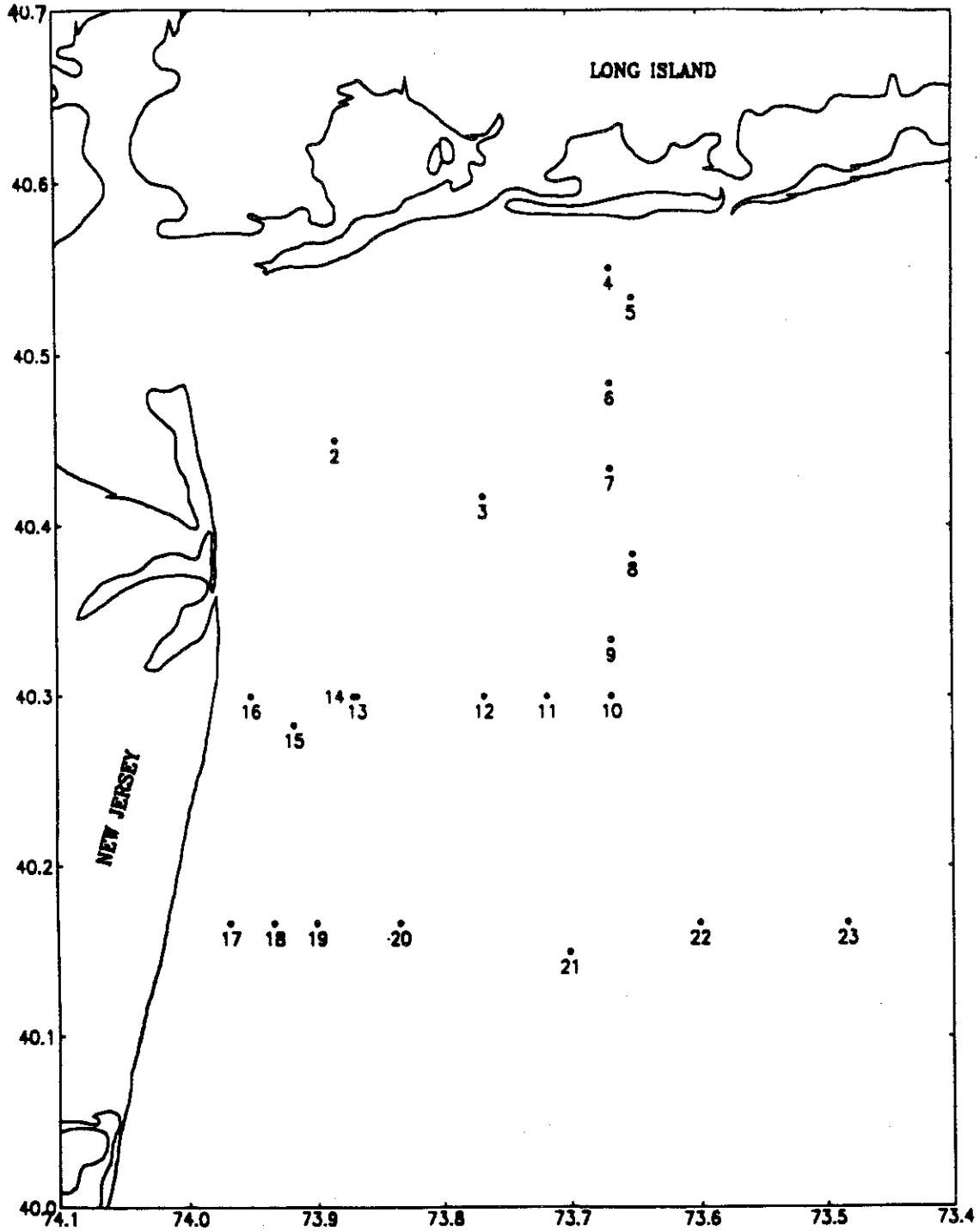


Figure E-1. Locations of CTD stations on cruise ALB88-10.

Sta 2 Depth 29 M Date 11/16/88
Lat 40 27.0N Lon 73 53.4W Time 30

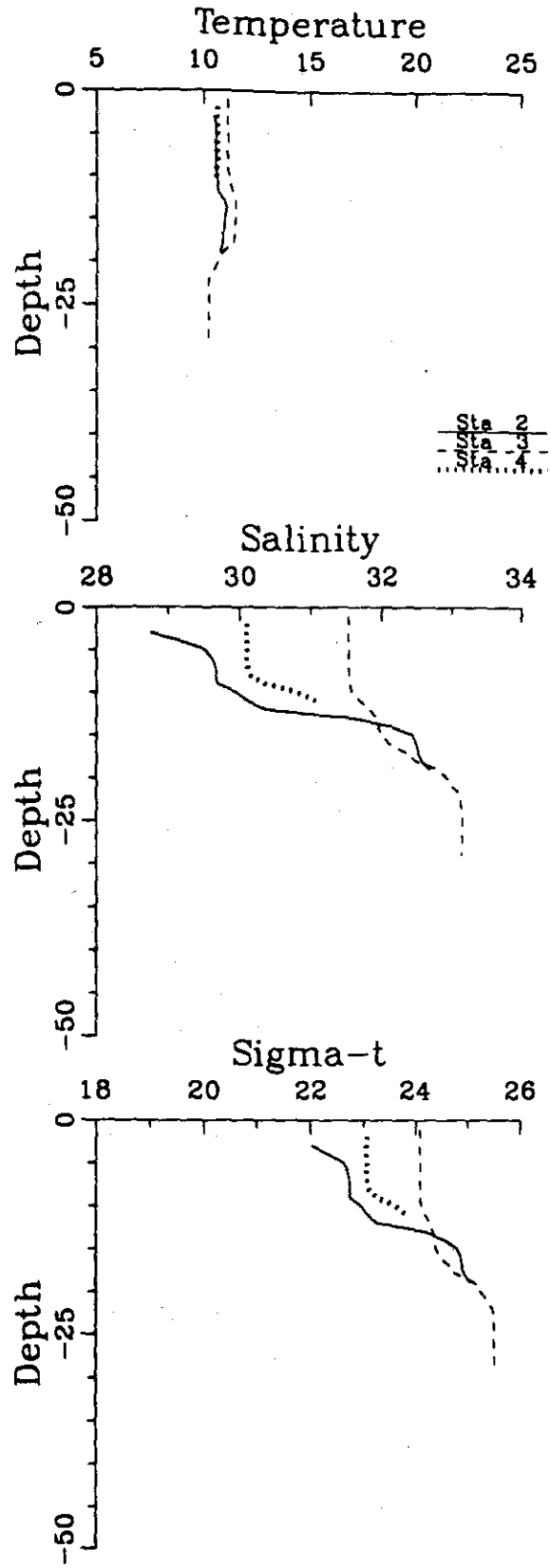
Depth	Temp	Salinity	Sigma-t	Oxygen
3	10.49	28.757	22.035	
4	10.56	29.173	22.346	
5	10.56	29.511	22.609	
6	10.56	29.615	22.689	
7	10.56	29.659	22.723	
8	10.56	29.662	22.726	
9	10.56	29.681	22.740	
10	10.58	29.944	22.941	
11	10.61	30.106	23.062	
12	10.66	30.381	23.267	
13	10.94	31.590	24.157	
14	11.03	32.155	24.579	
15	10.95	32.449	24.822	
16	10.89	32.500	24.872	
17	10.88	32.527	24.895	
18	10.83	32.576	24.941	
19	10.70	32.690	25.053	

Sta 3 Depth 39 M Date 11/16/88
Lat 40 25.8N Lon 73 46.8W Time 124

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.10	31.525	24.079	
3	11.09	31.527	24.082	
5	11.09	31.523	24.079	
7	11.08	31.523	24.080	
10	11.15	31.573	24.107	
12	11.34	31.824	24.268	
15	11.46	32.010	24.391	
17	11.43	32.339	24.651	
20	10.65	32.932	25.249	
22	10.25	33.132	25.474	
25	10.20	33.164	25.507	
27	10.20	33.166	25.508	
29	10.20	33.166	25.508	

Sta 4 Depth 15 M Date 11/16/88
Lat 40 33.5N Lon 73 40.0W Time 2148

Depth	Temp	Salinity	Sigma-t	Oxygen
2	10.61	30.103	23.059	
3	10.61	30.102	23.059	
4	10.62	30.100	23.055	
5	10.62	30.101	23.056	
6	10.62	30.101	23.056	
7	10.61	30.106	23.062	
8	10.61	30.149	23.095	
9	10.60	30.359	23.260	
10	10.57	30.815	23.619	
11	10.56	31.060	23.811	



Sta 5 Depth 18 M Date 11/16/88
Lat 40 32.0N Lon 73 39.9W Time 2224

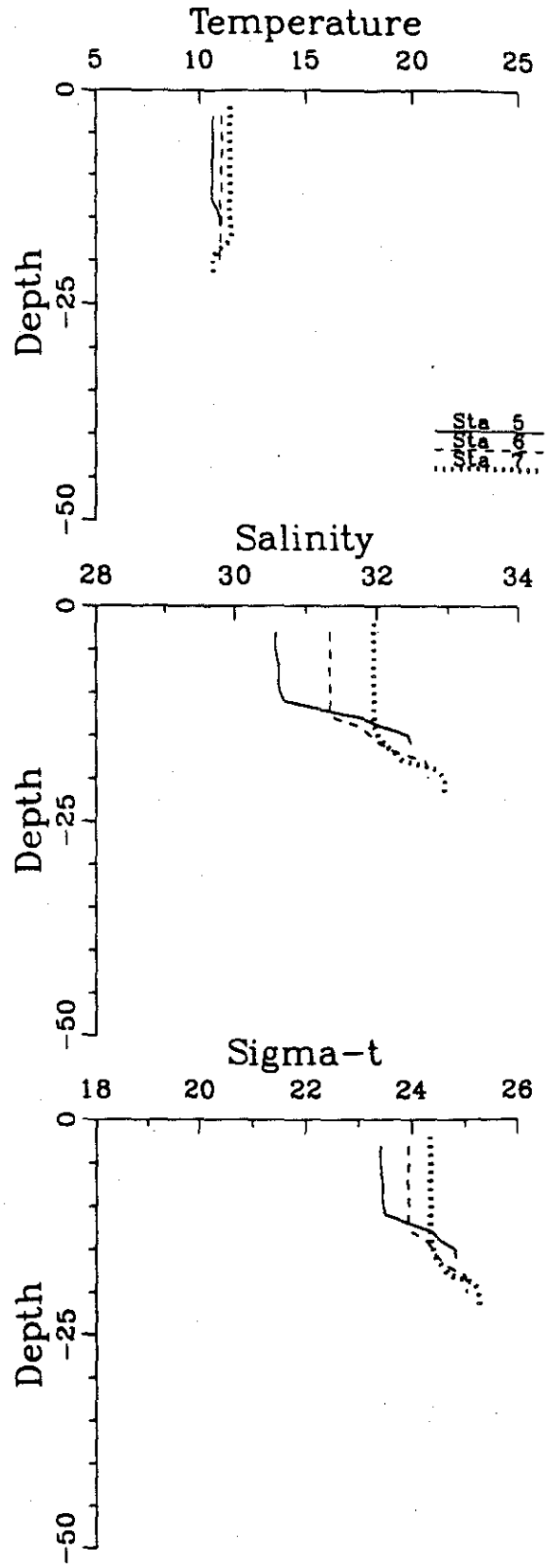
Depth	Temp	Salinity	Sigma-t	Oxygen
3	10.65	30.582	23.424	
4	10.64	30.572	23.418	
5	10.63	30.571	23.419	
6	10.63	30.587	23.432	
7	10.62	30.626	23.464	
8	10.62	30.622	23.461	
9	10.62	30.614	23.454	
10	10.62	30.629	23.466	
11	10.61	30.681	23.508	
12	10.55	31.226	23.941	
13	10.62	31.797	24.373	
14	10.84	32.071	24.548	
15	10.96	32.430	24.805	
16	10.96	32.479	24.843	

Sta 6 Depth 29 M Date 11/16/88
Lat 40 29.2N Lon 73 40.0W Time 2300

Depth	Temp	Salinity	Sigma-t	Oxygen
3	11.07	31.337	23.938	
4	11.07	31.337	23.938	
5	11.06	31.338	23.941	
6	11.08	31.335	23.935	
7	11.07	31.336	23.937	
8	11.05	31.337	23.941	
9	11.05	31.338	23.942	
10	11.05	31.337	23.941	
11	11.05	31.338	23.942	
12	11.04	31.342	23.947	
13	10.99	31.401	24.002	
14	11.00	31.763	24.281	
15	11.04	31.910	24.388	
16	11.01	32.035	24.490	
17	11.00	32.271	24.675	
18	11.00	32.681	24.993	
19	10.97	32.718	25.027	
20	10.97	32.720	25.029	

Sta 7 Depth 31 M Date 11/16/88
Lat 40 26.4N Lon 73 40.0W Time 2348

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.45	31.964	24.357	
3	11.45	31.964	24.357	
5	11.44	31.963	24.358	
7	11.45	31.963	24.356	
10	11.44	31.962	24.357	
12	11.44	31.962	24.357	
15	11.44	32.014	24.397	
17	11.51	32.251	24.568	
20	10.63	32.948	25.265	
22	10.62	32.962	25.278	



Sta 8 Depth 26 M Date 11/17/88
Lat 40 23.6N Lon 73 39.9W Time 30

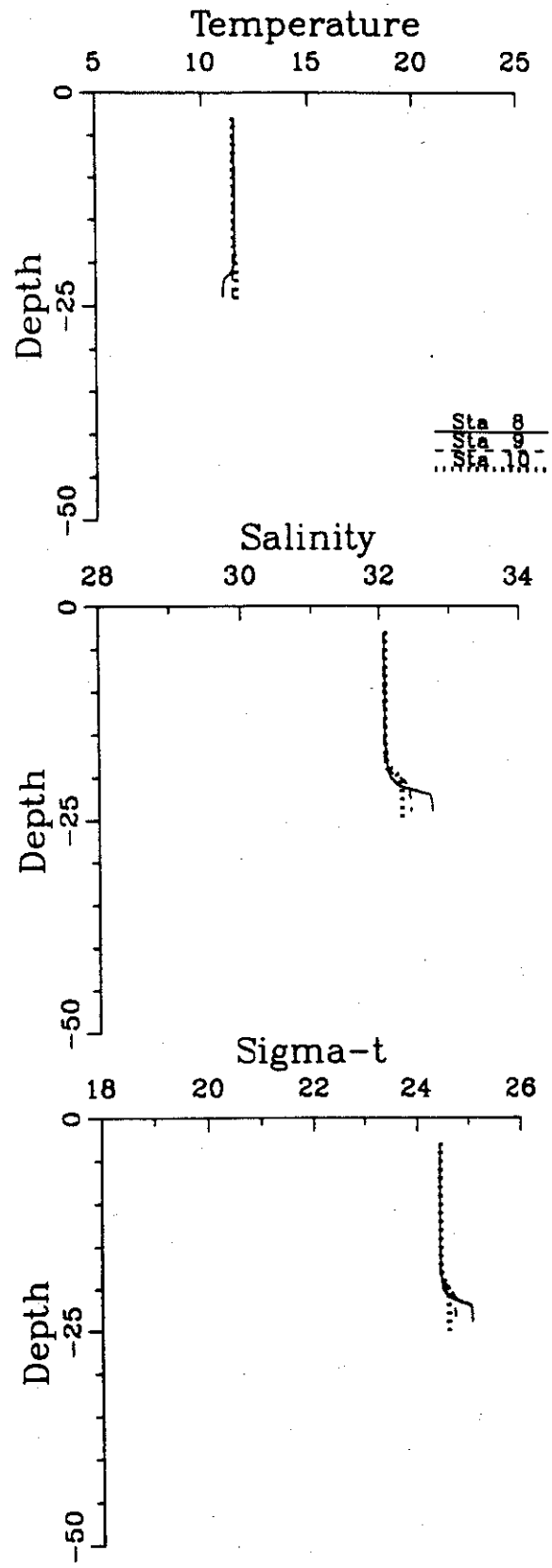
Depth	Temp	Salinity	Sigma-t	Oxygen
3	11.52	32.080	24.434	
4	11.52	32.081	24.435	
5	11.52	32.081	24.435	
7	11.51	32.082	24.437	
10	11.52	32.084	24.437	
12	11.52	32.083	24.436	
15	11.52	32.084	24.437	
17	11.52	32.103	24.452	
20	11.50	32.161	24.500	
22	11.00	32.728	25.029	
24	10.96	32.758	25.060	

Sta 9 Depth 27 M Date 11/17/88
Lat 40 20.9N Lon 73 40.4W Time 100

Depth	Temp	Salinity	Sigma-t	Oxygen
3	11.52	32.082	24.435	
4	11.47	32.069	24.434	
5	11.47	32.070	24.435	
7	11.47	32.070	24.435	
10	11.47	32.072	24.437	
12	11.47	32.072	24.437	
15	11.47	32.074	24.438	
17	11.47	32.075	24.439	
20	11.43	32.292	24.614	
22	11.43	32.433	24.724	
24	11.43	32.445	24.733	

Sta 10 Depth 27 M Date 11/17/88
Lat 40 18.0N Lon 73 40.0W Time 130

Depth	Temp	Salinity	Sigma-t	Oxygen
3	11.46	32.091	24.453	
4	11.47	32.090	24.451	
5	11.46	32.090	24.453	
7	11.47	32.090	24.451	
10	11.46	32.089	24.452	
12	11.46	32.090	24.453	
15	11.46	32.090	24.453	
17	11.46	32.094	24.456	
20	11.55	32.284	24.587	
22	11.59	32.324	24.610	
25	11.59	32.326	24.612	



Sta 11 Depth 28 M Date 11/17/88
Lat 40 18.1N Lon 73 43.1W Time 206

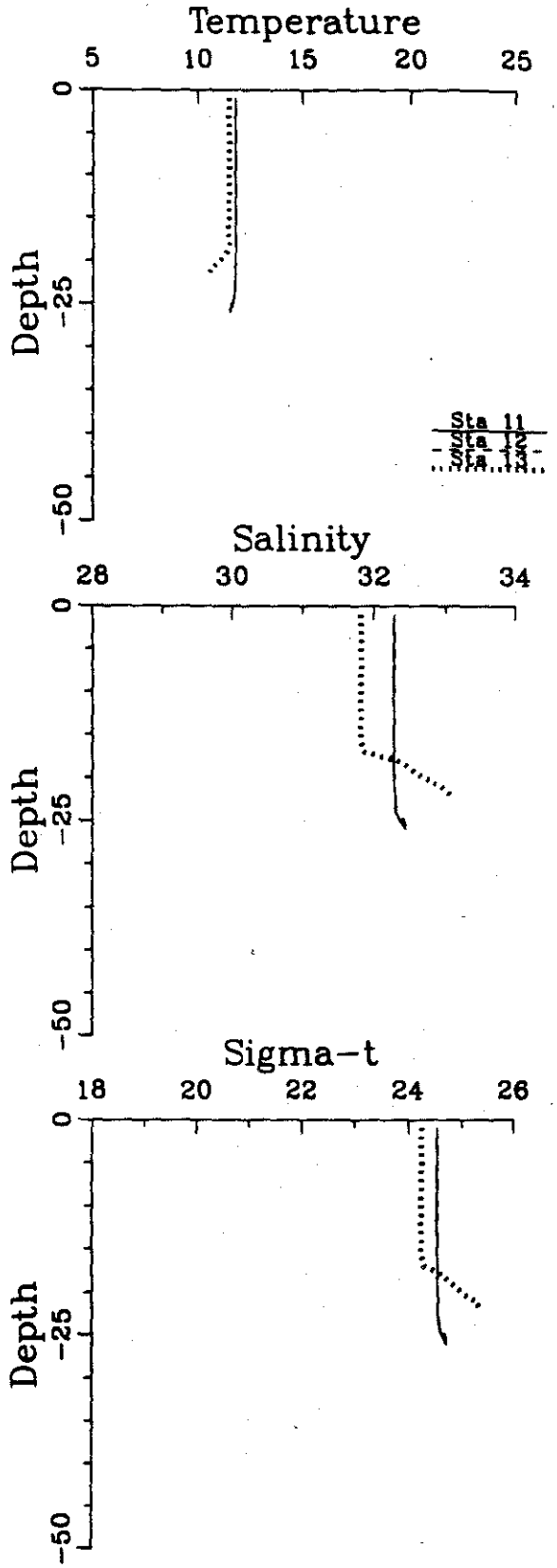
Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.83	32.278	24.531	
3	11.83	32.279	24.531	
5	11.83	32.279	24.531	
7	11.83	32.280	24.532	
10	11.83	32.280	24.532	
12	11.82	32.281	24.535	
15	11.82	32.282	24.536	
17	11.82	32.283	24.536	
20	11.81	32.290	24.544	
22	11.79	32.299	24.554	
25	11.66	32.374	24.636	
26	11.56	32.448	24.712	

Sta 12 Depth 35 M Date 11/17/88
Lat 40 18.1N Lon 73 46.6W Time 242

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.83	32.281	24.533	
3	11.82	32.282	24.536	
5	11.82	32.281	24.535	
7	11.82	32.282	24.536	
10	11.82	32.282	24.536	
12	11.82	32.282	24.536	
15	11.82	32.281	24.535	
17	11.82	32.286	24.539	
20	11.81	32.288	24.542	
22	11.79	32.302	24.557	
25	11.58	32.433	24.697	
26	11.55	32.453	24.718	

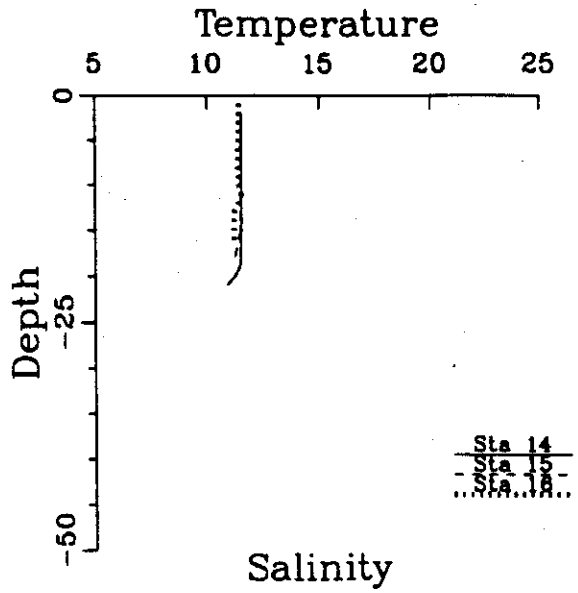
Sta 13 Depth 26 M Date 11/17/88
Lat 40 18.1N Lon 73 52.1W Time 324

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.51	31.827	24.240	
3	11.50	31.827	24.242	
5	11.50	31.827	24.242	
7	11.50	31.827	24.242	
10	11.50	31.827	24.242	
12	11.50	31.828	24.242	
15	11.49	31.833	24.248	
17	11.48	31.885	24.290	
20	11.08	32.686	24.983	
22	10.45	33.070	25.391	



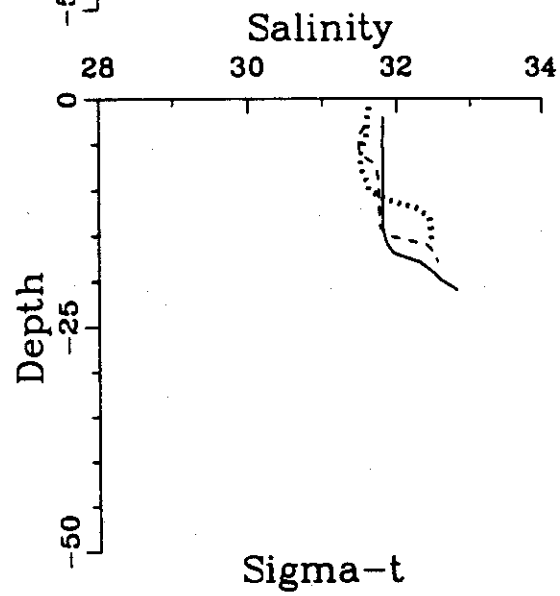
Sta 14 Depth 23 M Date 11/17/88
Lat 40 18.0N Lon 73 52.8W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
2	11.53	31.809	24.222	
3	11.53	31.808	24.221	
5	11.54	31.807	24.219	
7	11.53	31.808	24.221	
10	11.52	31.808	24.223	
12	11.52	31.810	24.225	
15	11.51	31.826	24.239	
17	11.49	31.961	24.347	
20	11.24	32.623	24.905	
21	10.89	32.820	25.120	



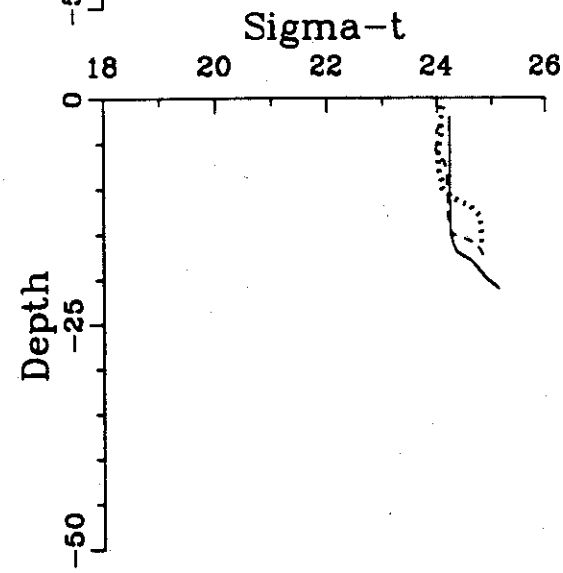
Sta 15 Depth 20 M Date 11/17/88
Lat 40 17.9N Lon 73 55.1W Time 418

Depth	Temp	Salinity	Sigma-t	Oxygen
3	11.52	31.569	24.038	
4	11.52	31.487	23.975	
5	11.52	31.484	23.972	
6	11.51	31.493	23.981	
7	11.52	31.673	24.119	
8	11.52	31.738	24.169	
9	11.51	31.743	24.175	
10	11.50	31.748	24.180	
11	11.50	31.753	24.184	
12	11.50	31.756	24.187	
13	11.50	31.761	24.190	
14	11.51	31.772	24.197	
15	11.52	31.861	24.264	
16	11.41	32.402	24.703	
17	11.31	32.514	24.808	
18	11.25	32.558	24.853	



Sta 16 Depth 19 M Date 11/17/88
Lat 40 18.0N Lon 73 57.0W Time 454

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.43	31.621	24.095	
2	11.43	31.600	24.078	
3	11.42	31.594	24.075	
4	11.42	31.590	24.072	
5	11.40	31.544	24.040	
6	11.38	31.513	24.020	
7	11.38	31.511	24.018	
8	11.39	31.529	24.030	
9	11.40	31.583	24.070	
10	11.42	31.617	24.093	
11	11.52	31.830	24.240	
12	11.40	32.270	24.603	
13	11.22	32.442	24.768	
14	11.20	32.463	24.788	
15	11.18	32.470	24.797	
16	11.18	32.472	24.799	



Sta 17 Depth 13 M Date 11/17/88
Lat 40 10.0N Lon 73 58.0W Time 612

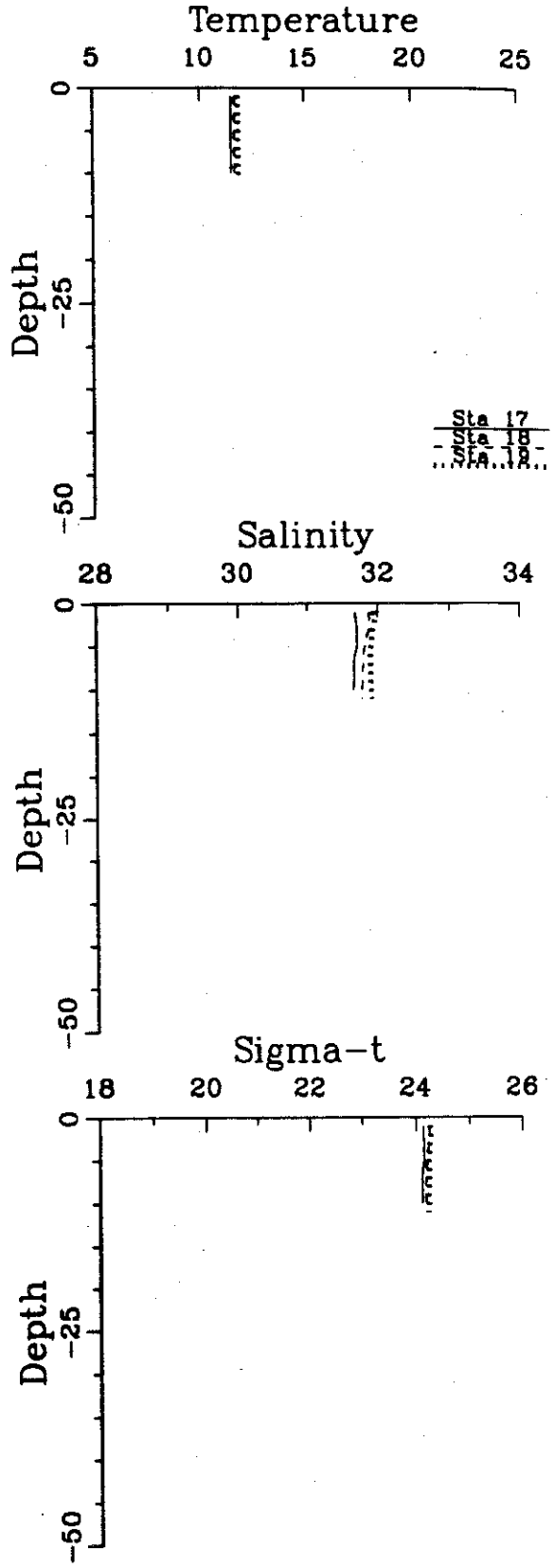
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.51	31.691	24.134	
2	11.51	31.703	24.144	
3	11.51	31.715	24.153	
4	11.51	31.716	24.154	
5	11.51	31.713	24.151	
6	11.51	31.684	24.129	
7	11.51	31.674	24.121	
8	11.51	31.671	24.119	
9	11.51	31.670	24.118	
10	11.51	31.664	24.113	

Sta 18 Depth 16 M Date 11/17/88
Lat 40 10.0N Lon 73 56.0W Time 642

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.68	31.883	24.252	
2	11.68	31.887	24.255	
3	11.68	31.889	24.257	
4	11.68	31.840	24.219	
5	11.68	31.824	24.207	
6	11.68	31.812	24.197	
8	11.68	31.795	24.184	
9	11.68	31.798	24.187	
10	11.68	31.789	24.180	
11	11.68	31.789	24.180	

Sta 19 Depth 17 M Date 11/17/88
Lat 40 10.0N Lon 73 54.0W Time 700

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.84	31.941	24.268	
2	11.84	31.962	24.284	
3	11.85	31.932	24.259	
4	11.85	31.925	24.254	
5	11.85	31.911	24.243	
6	11.85	31.907	24.240	
7	11.85	31.908	24.241	
9	11.85	31.904	24.238	
10	11.86	31.911	24.241	
11	11.87	31.918	24.245	



Sta 20 Depth 27 M Date 11/17/88
Lat 40 10.0N Lon 73 50.0W Time 736

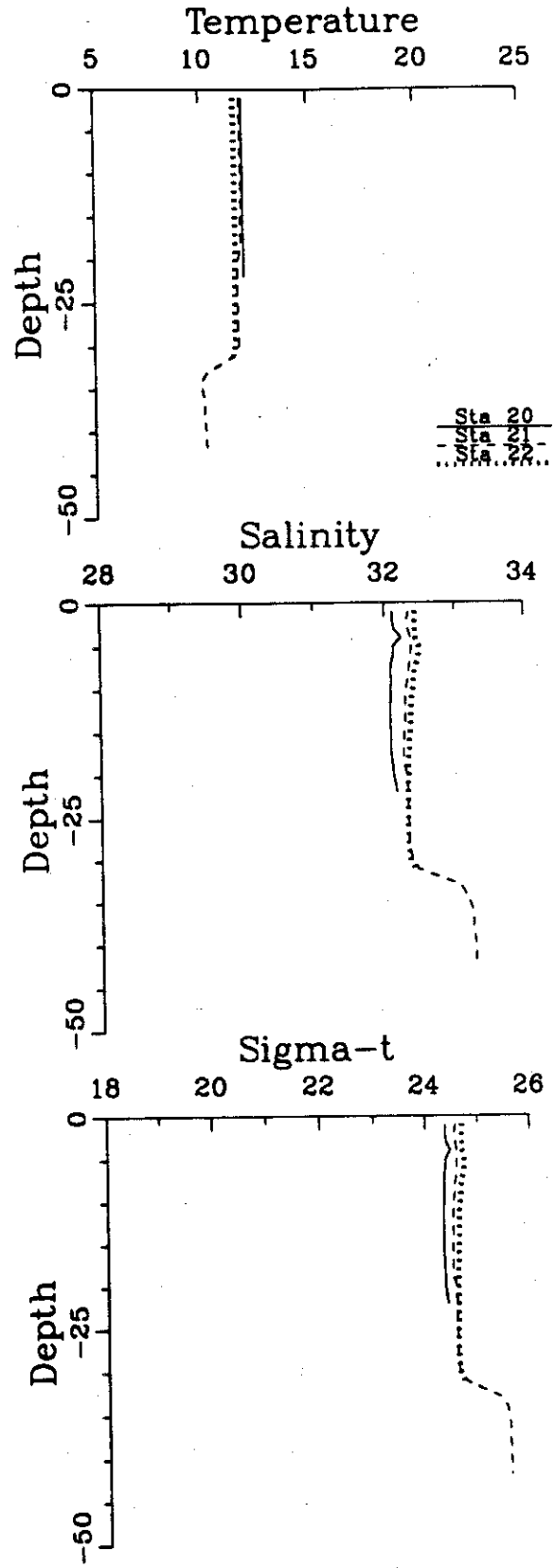
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.99	32.125	24.383	
3	12.00	32.140	24.392	
5	12.00	32.133	24.387	
7	12.00	32.096	24.358	
10	11.99	32.086	24.353	
12	12.00	32.078	24.344	
15	12.00	32.085	24.350	
17	12.00	32.090	24.354	
20	12.02	32.120	24.373	
22	12.01	32.165	24.410	

Sta 21 Depth 47 M Date 11/17/88
Lat 40 9.9N Lon 73 42.7W Time 754

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.91	32.359	24.579	
3	11.90	32.350	24.574	
5	11.91	32.391	24.603	
8	11.90	32.343	24.568	
10	11.90	32.307	24.540	
12	11.89	32.290	24.529	
15	11.88	32.277	24.521	
17	11.88	32.272	24.517	
20	11.75	32.318	24.576	
22	11.73	32.327	24.587	
25	11.74	32.329	24.587	
27	11.76	32.335	24.588	
30	11.79	32.389	24.624	
32	10.96	32.771	25.070	
35	10.10	33.200	25.552	
40	10.23	33.278	25.591	
42	10.26	33.288	25.593	

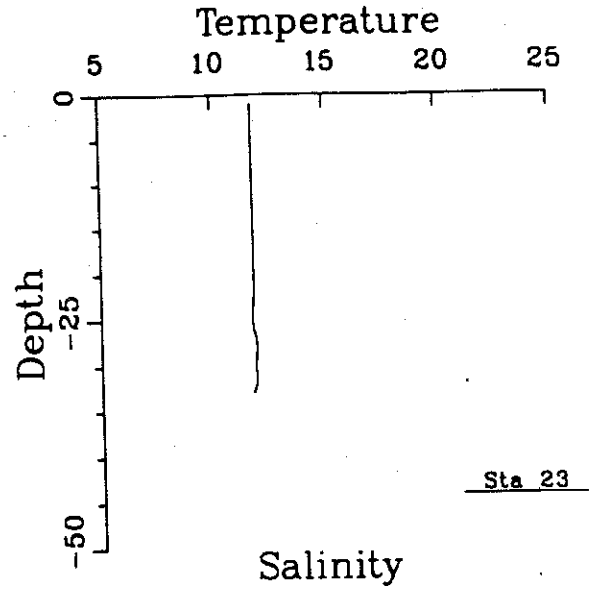
Sta 22 Depth 37 M Date 11/17/88
Lat 40 10.1N Lon 73 36.9W Time 954

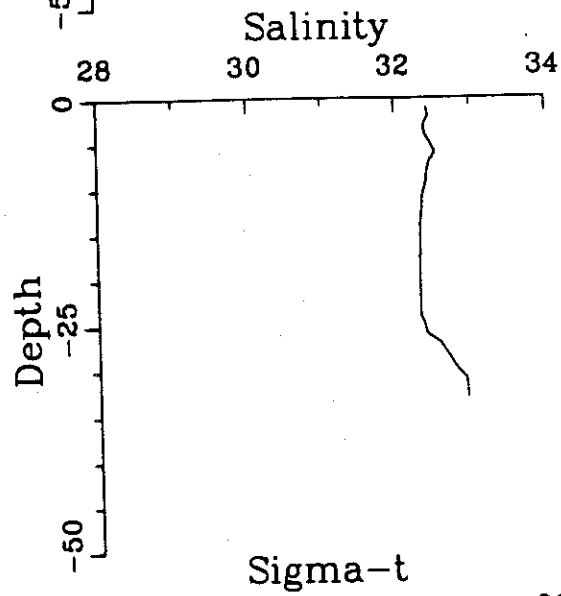
Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.62	32.450	24.702	
3	11.62	32.443	24.697	
5	11.62	32.501	24.742	
7	11.62	32.465	24.714	
10	11.62	32.407	24.669	
13	11.62	32.374	24.644	
15	11.62	32.362	24.634	
17	11.62	32.353	24.627	
20	11.62	32.339	24.616	
22	11.62	32.328	24.608	
25	11.62	32.325	24.606	
27	11.62	32.324	24.605	
30	11.60	32.354	24.632	
31	11.52	32.422	24.699	

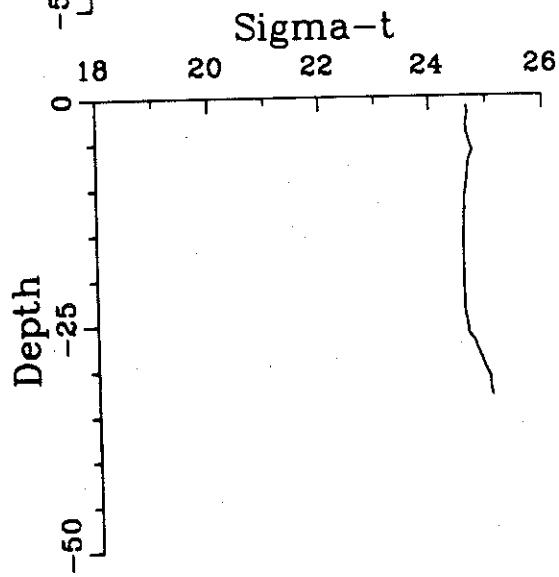


Sta 23 Depth 39 M Date 11/17/88
Lat 40 10.1N Lon 73 29.8W Time 1036

Depth	Temp	Salinity	Sigma-t	Oxygen
1	11.80	32.445	24.666	
3	11.80	32.410	24.638	
5	11.79	32.495	24.706	
7	11.79	32.472	24.688	
10	11.79	32.402	24.634	
12	11.79	32.370	24.609	
15	11.79	32.348	24.592	
17	11.78	32.343	24.590	
20	11.78	32.335	24.584	
22	11.78	32.333	24.583	
25	11.73	32.390	24.636	
27	11.88	32.589	24.762	
30	11.85	32.810	24.939	
32	11.87	32.930	25.028	
33	11.73	32.942	25.063	







Section F

Delaware II 89-04
6-17 June 1989

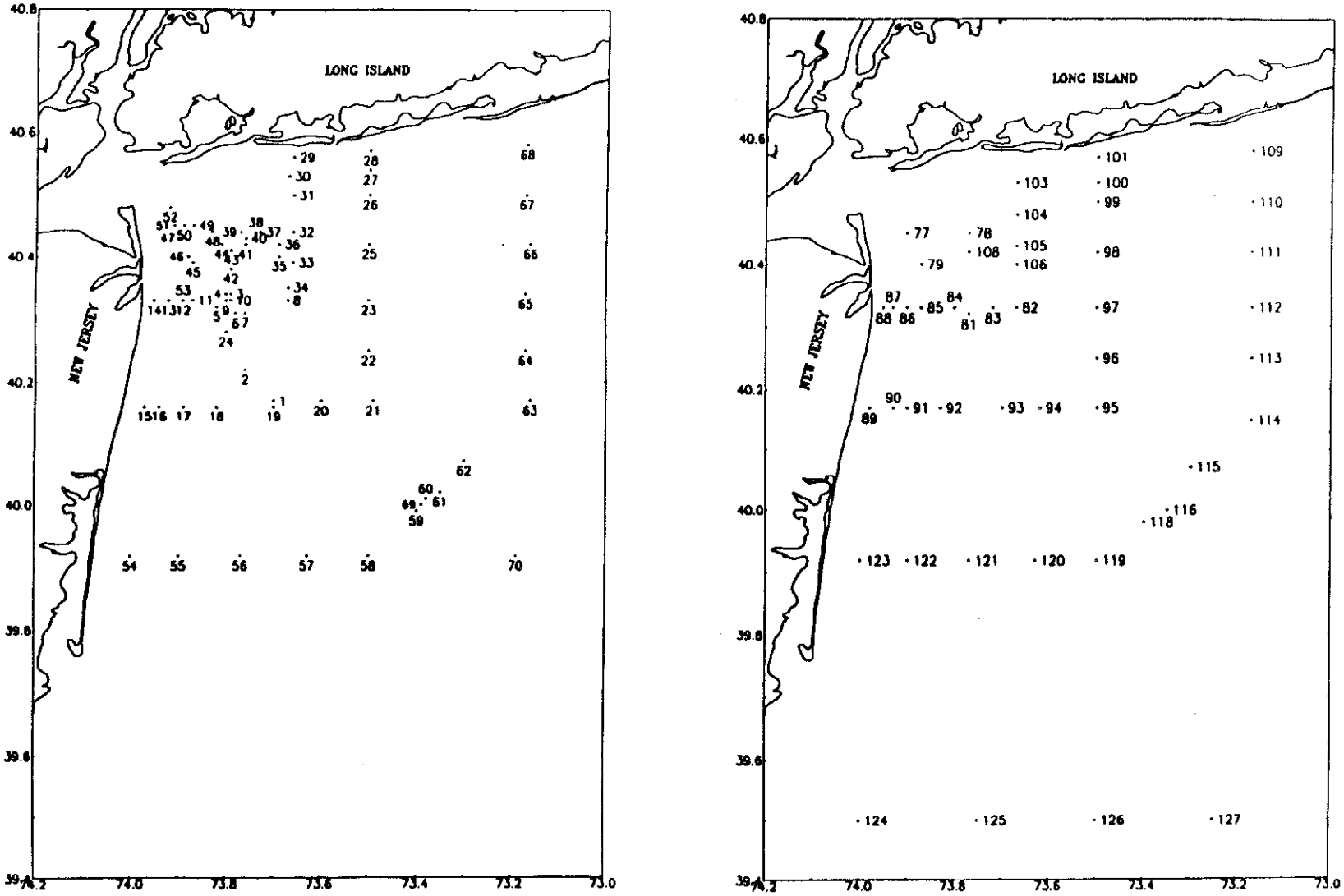


Figure F-1. Locations of CTD stations on cruise DE89-04 during (a) the first survey and (b) the second survey.

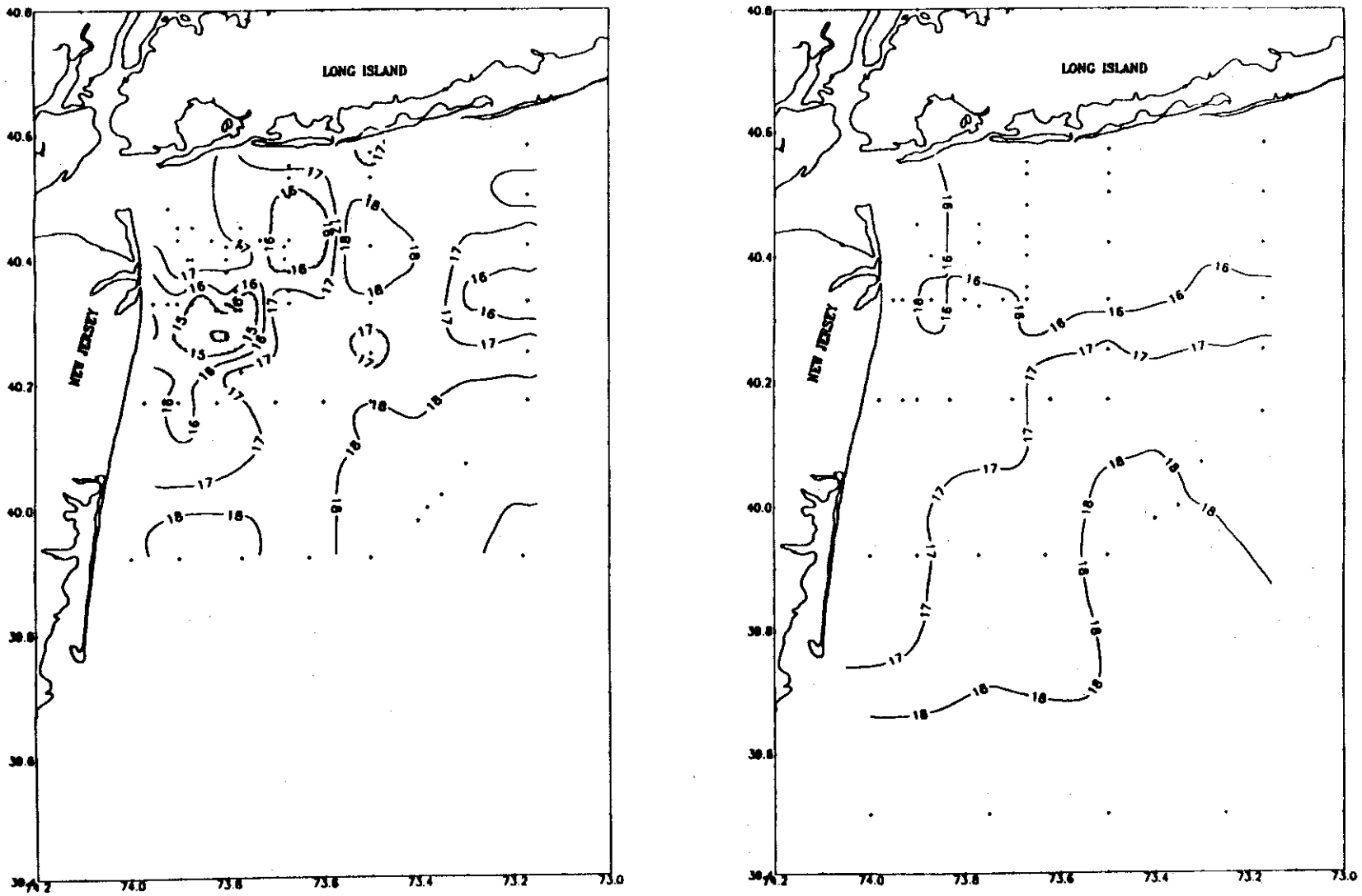


Figure F-2. Surface temperature on cruise DE89-04 during (a) the first survey and (b) the second survey.

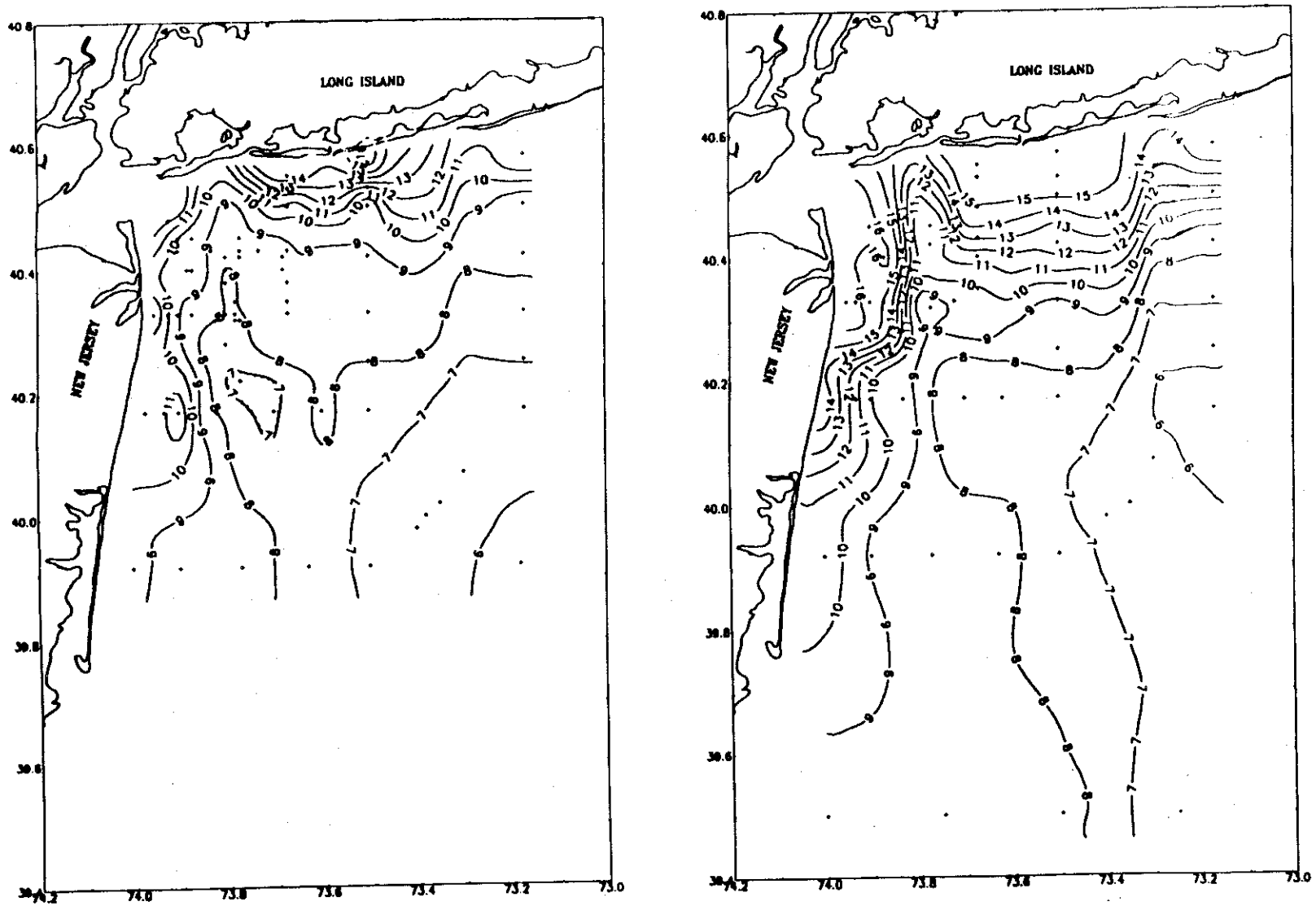


Figure F-3. Bottom temperature on cruise DE89-04 during (a) the first survey and (b) the second survey.

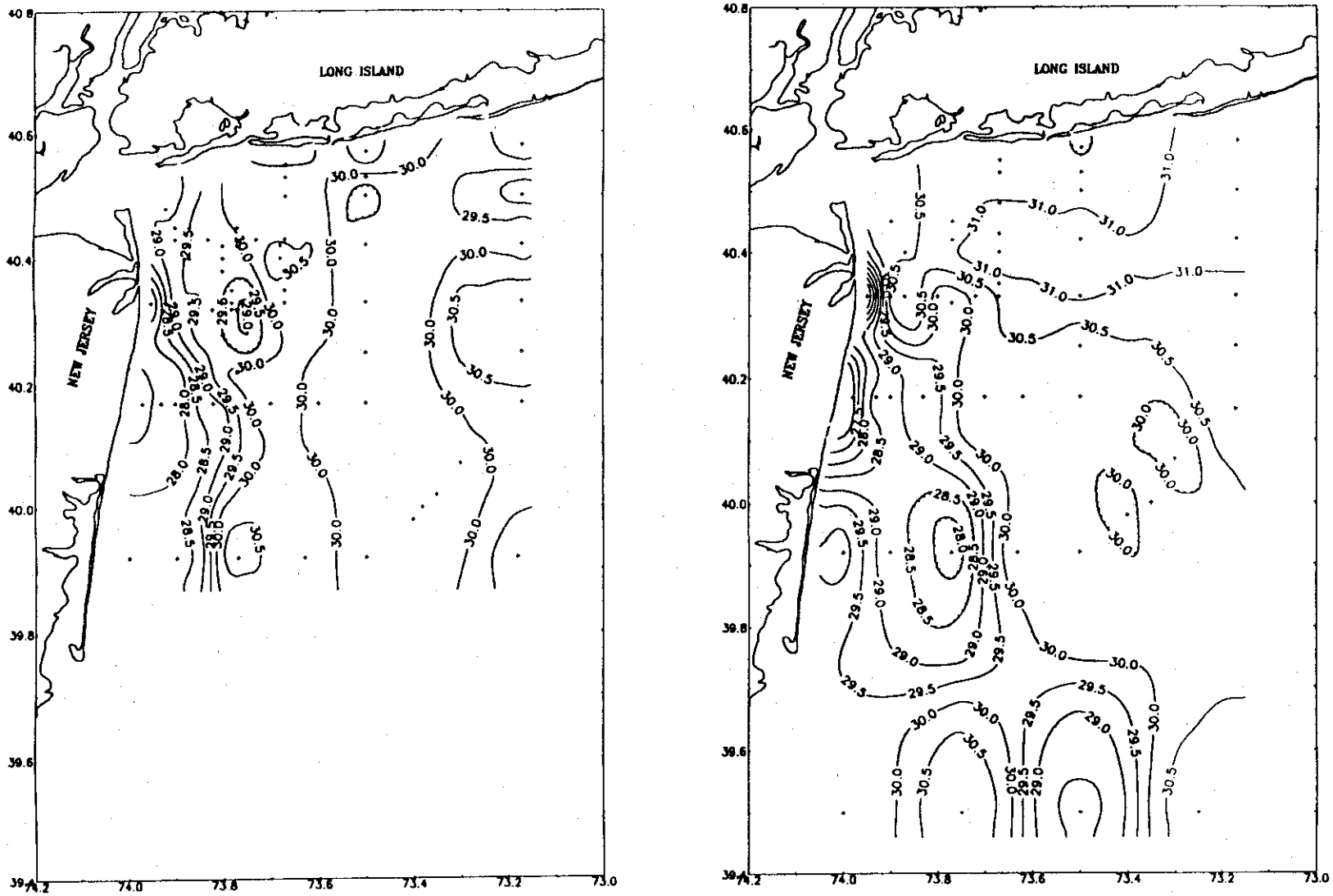


Figure F-4. Surface salinity on cruise DE89-04 during (a) the first survey and (b) the second survey.

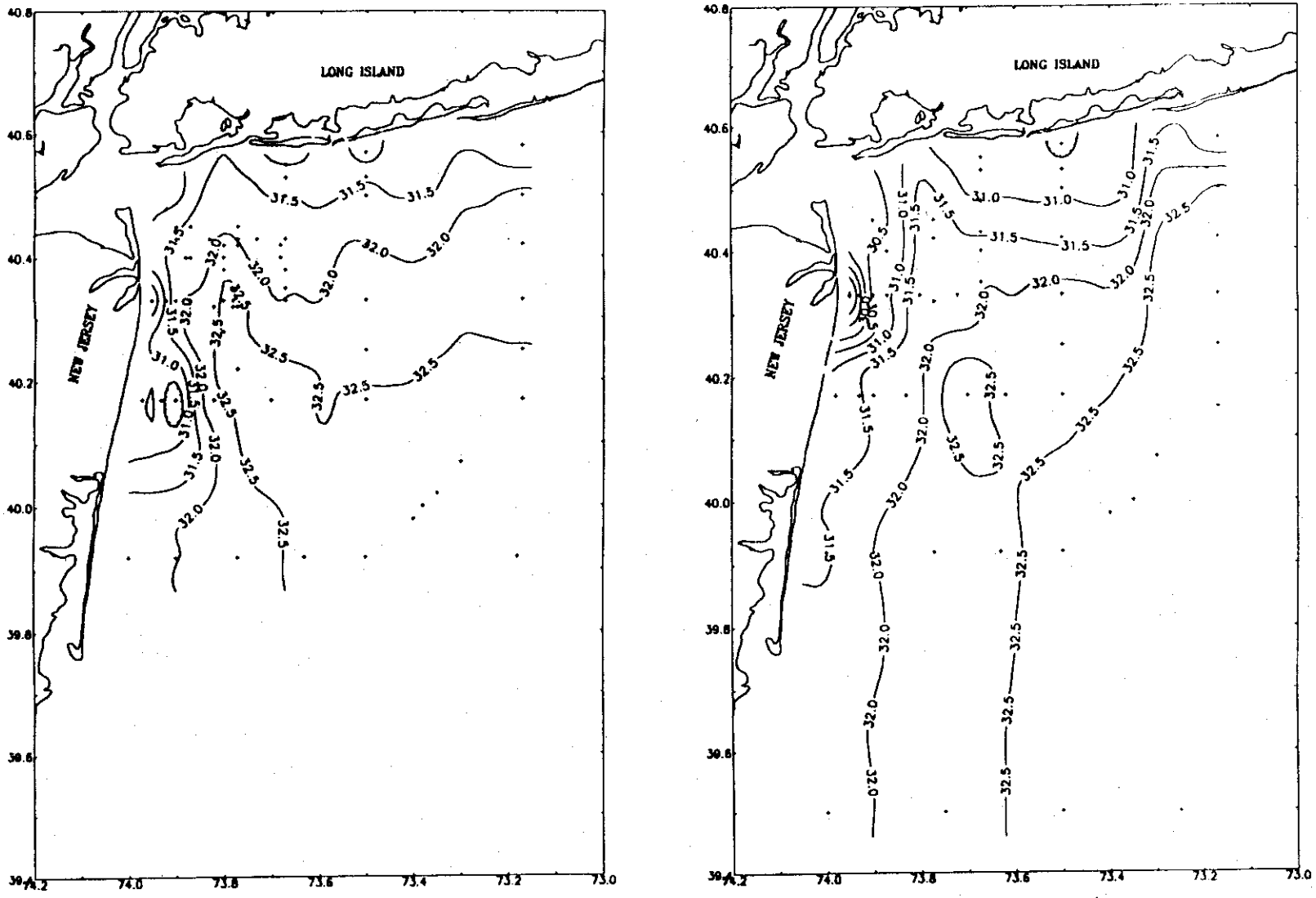


Figure F-5. Bottom salinity on cruise DE89-04 during (a) the first survey and (b) the second survey.

Sta 1 Depth 62 M Date 6/ 7/89
Lat 40 10.4N Lon 73 42.3W Time 1230

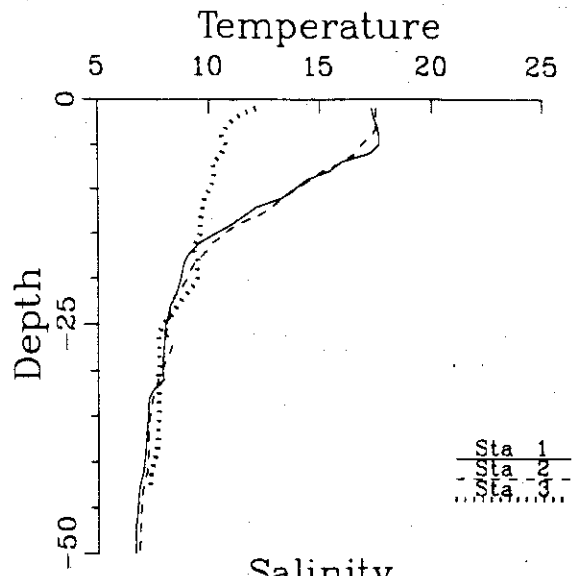
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.33	30.155	21.752	
3	17.57	30.116	21.667	
5	17.66	30.090	21.626	
7	15.94	30.533	22.356	
10	13.87	30.872	23.052	
12	12.07	31.389	23.799	
15	10.23	31.868	24.494	
17	9.11	32.035	24.805	
20	8.72	32.117	24.929	
22	8.46	32.230	25.056	
25	8.05	32.418	25.263	
27	8.01	32.442	25.288	
30	7.91	32.499	25.347	
32	7.55	32.595	25.473	
35	7.24	32.668	25.574	
40	7.08	32.713	25.631	
45	6.78	32.813	25.749	
50	6.70	32.867	25.802	
56	6.60	32.885	25.830	

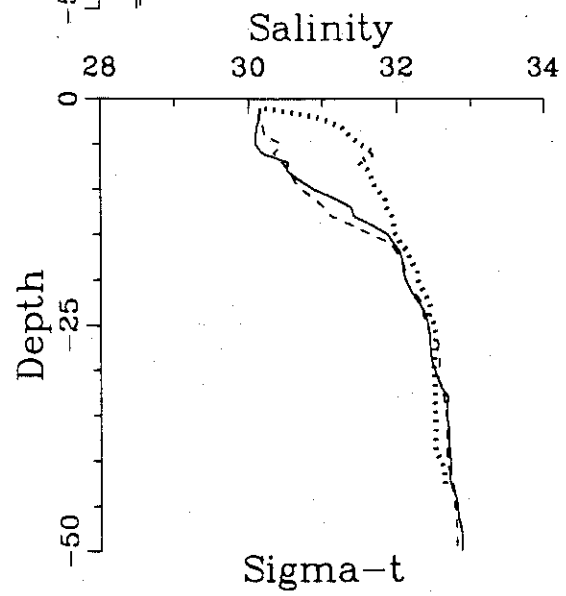
Sta 2 Depth 63 M Date 6/ 7/89
Lat 40 13.4N Lon 73 45.9W Time 1606

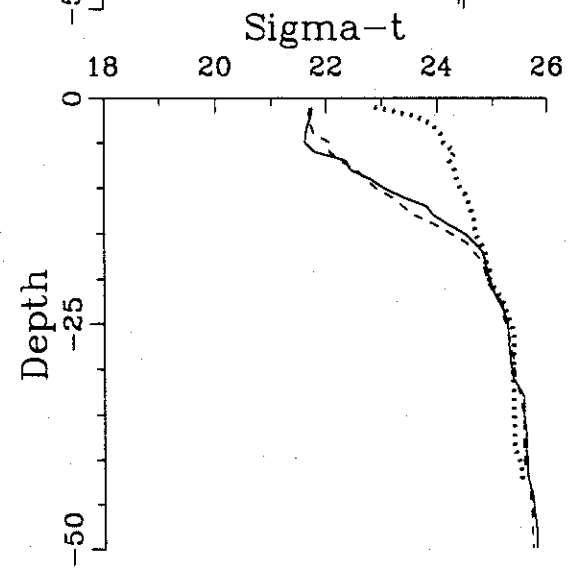
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.52	30.146	21.701	
3	17.54	30.188	21.729	
5	16.86	30.444	22.081	
7	16.02	30.438	22.265	
10	13.96	30.708	22.908	
12	12.81	31.021	23.375	
15	10.65	31.645	24.250	
17	9.85	31.991	24.652	
20	9.02	32.102	24.871	
22	8.43	32.279	25.099	
25	8.14	32.395	25.232	
27	8.36	32.549	25.320	
30	7.91	32.557	25.393	
32	7.67	32.605	25.464	
35	7.34	32.660	25.554	
40	7.26	32.673	25.575	
45	6.96	32.778	25.698	
50	6.87	32.810	25.735	
57	6.75	32.844	25.778	

Sta 3 Depth 48 M Date 6/ 7/89
Lat 40 20.7N Lon 73 47.3W Time 2218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	12.11	30.220	22.888	
3	10.78	31.239	23.912	
5	10.77	31.493	24.111	
7	10.17	31.486	24.207	
10	10.02	31.715	24.410	
12	9.71	31.853	24.568	
15	9.57	31.975	24.685	
17	9.32	32.140	24.854	
20	9.45	32.265	24.930	
22	8.84	32.388	25.122	
25	7.92	32.501	25.347	
27	7.75	32.511	25.379	
30	7.75	32.479	25.354	
32	7.75	32.501	25.372	
35	7.74	32.505	25.376	
40	7.49	32.584	25.473	
43	7.31	32.645	25.546	

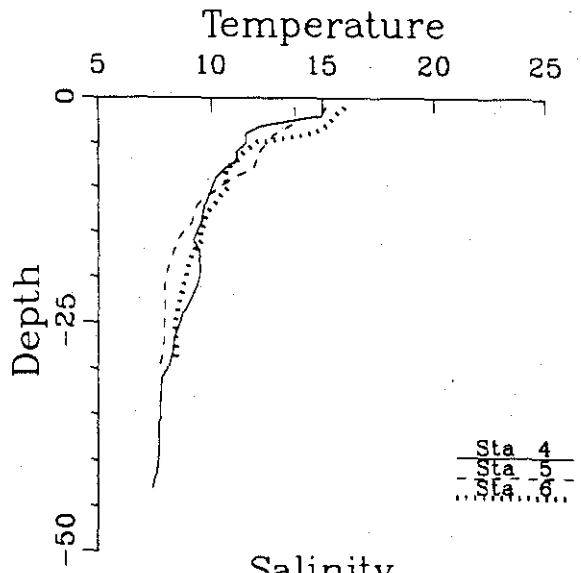






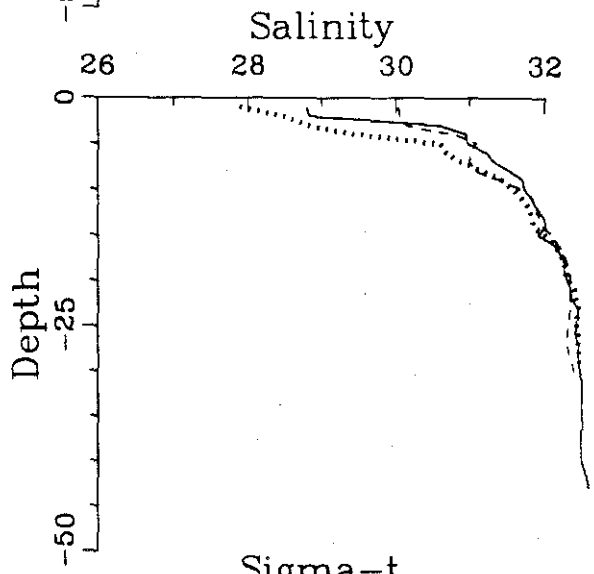
Sta 4 Depth 47 M Date 6/ 7/89
Lat 40 20.5N Lon 73 48.0W Time 2354

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.14	28.796	21.198	
3	12.40	30.599	23.127	
5	11.54	30.961	23.564	
7	11.19	31.331	23.912	
10	10.02	31.725	24.417	
12	9.69	31.891	24.600	
15	9.34	31.912	24.673	
17	9.40	32.200	24.888	
20	9.47	32.314	24.965	
22	9.16	32.351	25.043	
25	8.59	32.432	25.194	
27	8.30	32.464	25.263	
30	8.07	32.470	25.301	
32	7.76	32.514	25.380	
35	7.70	32.512	25.387	
40	7.63	32.512	25.397	
43	7.39	32.619	25.515	



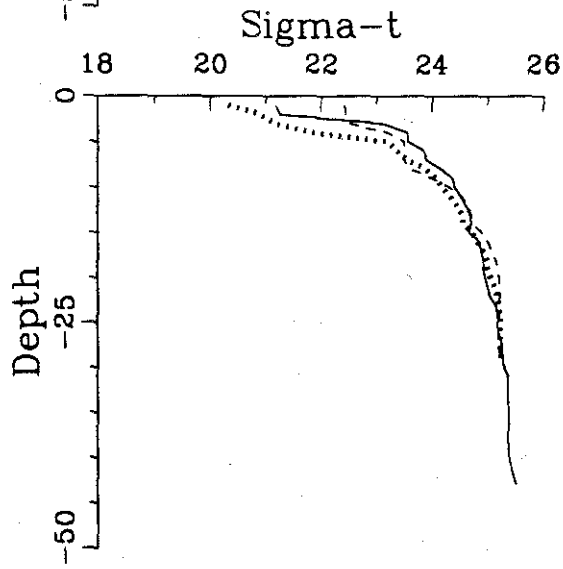
Sta 5 Depth 35 M Date 6/ 8/89
Lat 40 19.2N Lon 73 49.4W Time 12

Depth	Temp	Salinity	Sigma-t	Oxygen
1	13.77	30.037	22.430	
3	13.61	30.133	22.535	
5	12.42	31.079	23.494	
7	12.05	31.005	23.505	
10	10.37	31.680	24.324	
12	9.39	31.876	24.637	
15	8.74	32.088	24.903	
17	8.32	32.244	25.088	
20	7.95	32.353	25.227	
22	7.91	32.344	25.226	
25	7.90	32.318	25.207	
27	7.89	32.311	25.203	
30	7.62	32.394	25.306	



Sta 6 Depth 35 M Date 6/ 8/89
Lat 40 18.8N Lon 73 46.8W Time 30

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.98	27.893	20.328	
3	15.25	28.795	21.174	
5	12.01	30.594	23.195	
7	11.16	30.878	23.566	
10	10.75	31.580	24.182	
12	10.08	31.776	24.447	
15	9.47	32.001	24.721	
17	9.21	32.195	24.914	
20	8.83	32.321	25.071	
22	8.64	32.423	25.180	
25	8.37	32.442	25.235	
27	8.41	32.457	25.241	
29	8.39	32.471	25.255	



Sta 7 Depth 30 M Date 6/ 8/89
Lat 40 18.9N Lon 73 45.5W Time 124

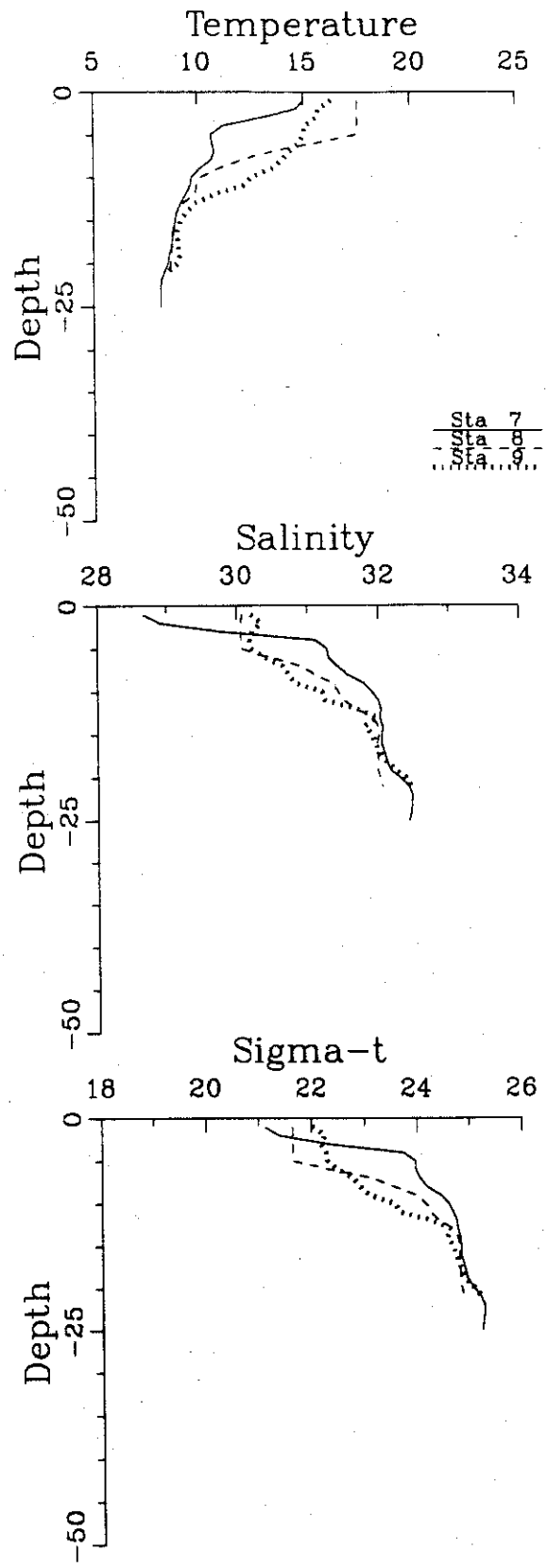
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.04	28.675	21.126	
3	13.17	29.794	22.360	
5	10.63	31.285	23.973	
7	10.82	31.430	24.053	
10	9.71	31.906	24.609	
12	9.42	32.034	24.755	
15	8.94	32.050	24.843	
17	8.82	32.089	24.892	
20	8.60	32.312	25.099	
22	8.28	32.485	25.282	
25	8.25	32.442	25.253	

Sta 8 Depth 25 M Date 6/ 8/89
Lat 40 20.0N Lon 73 40.0W Time 200

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.52	30.076	21.648	
3	17.53	30.075	21.645	
5	17.46	30.079	21.664	
7	13.53	30.910	23.149	
10	10.13	31.442	24.179	
12	9.91	31.689	24.407	
15	8.94	32.010	24.811	
17	8.81	31.980	24.808	
20	8.74	32.019	24.849	
21	8.68	32.057	24.888	

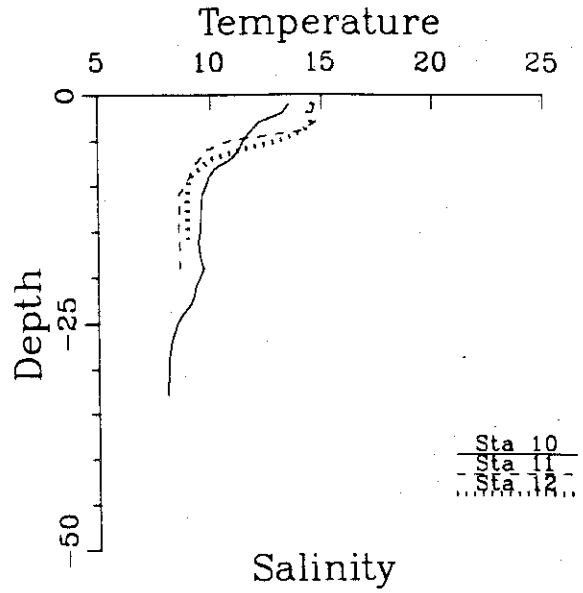
Sta 9 Depth 26 M Date 6/ 8/89
Lat 40 20.0N Lon 73 47.7W Time 224

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.33	30.214	22.025	
3	15.63	30.225	22.188	
5	15.01	30.223	22.319	
7	14.33	30.649	22.787	
10	12.54	31.218	23.579	
12	10.79	31.701	24.269	
15	9.21	31.905	24.688	
17	9.04	32.015	24.800	
20	9.06	32.390	25.089	
21	8.59	32.467	25.222	



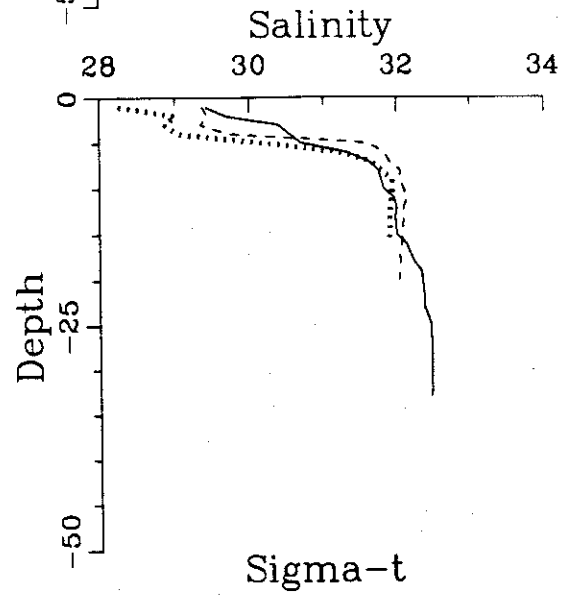
Sta 10 Depth 39 M Date 6/ 8/89
Lat 40 20.0N Lon 73 47.1W Time 248

Depth	Temp	Salinity	Sigma-t	Oxygen
1	13.50	29.419	22.008	
3	12.18	30.387	23.004	
5	11.48	30.690	23.365	
7	10.94	31.615	24.176	
10	9.78	31.823	24.533	
12	9.57	31.997	24.702	
15	9.51	32.000	24.714	
17	9.45	32.182	24.866	
20	9.50	32.352	24.990	
22	9.22	32.383	25.059	
25	8.49	32.467	25.237	
27	8.24	32.473	25.279	
30	8.10	32.473	25.299	
32	8.07	32.477	25.307	
33	8.05	32.469	25.303	



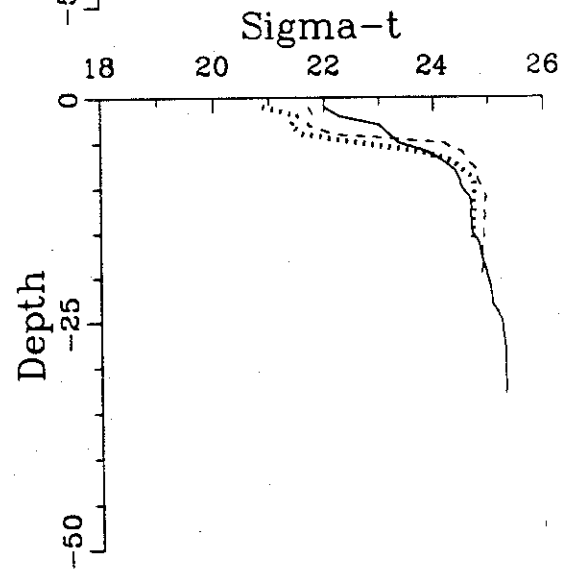
Sta 11 Depth 25 M Date 6/ 8/89
Lat 40 20.0N Lon 73 52.1W Time 330

Depth	Temp	Salinity	Sigma-t	Oxygen
1	14.69	29.361	21.724	
3	14.75	29.344	21.699	
5	10.82	31.594	24.181	
7	9.51	31.897	24.634	
10	8.84	32.094	24.892	
12	8.59	32.097	24.933	
15	8.58	32.084	24.924	
17	8.59	32.040	24.888	
20	8.59	32.035	24.884	



Sta 12 Depth 22 M Date 6/ 8/89
Lat 40 19.5N Lon 73 53.5W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
1	14.61	28.256	20.893	
2	14.39	29.017	21.522	
3	14.47	28.866	21.390	
4	14.18	29.068	21.603	
5	13.15	30.184	22.664	
6	11.37	31.168	23.754	
7	10.02	31.638	24.350	
9	9.05	31.938	24.738	
10	8.97	31.948	24.758	
11	8.95	31.928	24.746	
12	8.95	31.919	24.739	
13	8.94	31.906	24.730	
14	8.94	31.907	24.731	
15	8.95	31.902	24.726	
16	8.96	31.895	24.719	



Sta 13 Depth 20 M Date 6/ 8/89
Lat 40 19.5N Lon 73 55.4W Time 412

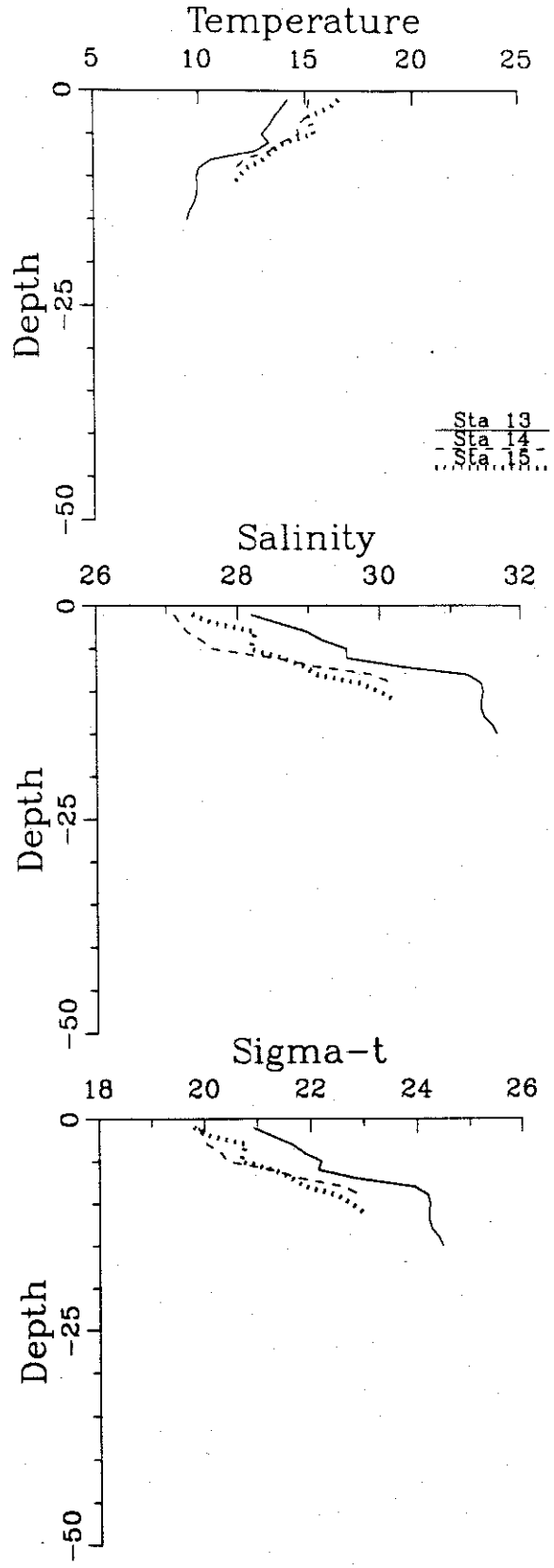
Depth	Temp	Salinity	Sigma-t	Oxygen
1	14.18	28.201	20.937	
2	13.88	28.586	21.293	
3	13.57	28.987	21.662	
4	13.30	29.199	21.877	
5	12.98	29.545	22.205	
6	13.28	29.543	22.146	
7	12.62	30.275	22.836	
8	10.58	31.244	23.950	
9	10.01	31.444	24.200	
10	9.90	31.467	24.236	
11	9.91	31.441	24.214	
12	9.90	31.443	24.218	
13	9.79	31.485	24.268	
14	9.54	31.605	24.402	
15	9.43	31.666	24.467	

Sta 14 Depth 14 M Date 6/ 8/89
Lat 40 19.6N Lon 73 57.0W Time 442

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.17	27.112	19.902	
2	15.13	27.209	19.984	
3	15.07	27.296	20.063	
4	14.59	27.506	20.322	
5	14.70	27.666	20.422	
6	13.86	28.516	21.243	
7	13.31	29.075	21.780	
8	12.12	29.914	22.649	
9	11.70	30.176	22.928	

Sta 15 Depth 16 M Date 6/ 8/89
Lat 40 9.7N Lon 73 58.4W Time 606

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.56	27.375	19.806	
2	16.11	27.667	20.127	
3	15.13	28.254	20.785	
5	15.39	28.193	20.683	
6	14.04	28.634	21.298	
7	13.44	28.928	21.641	
8	13.00	29.127	21.879	
9	12.23	29.737	22.493	
10	11.86	29.997	22.761	
11	11.63	30.211	22.967	



Sta 16 Depth 21 M Date 6/ 8/89
Lat 40 9.8N Lon 73 56.3W Time 630

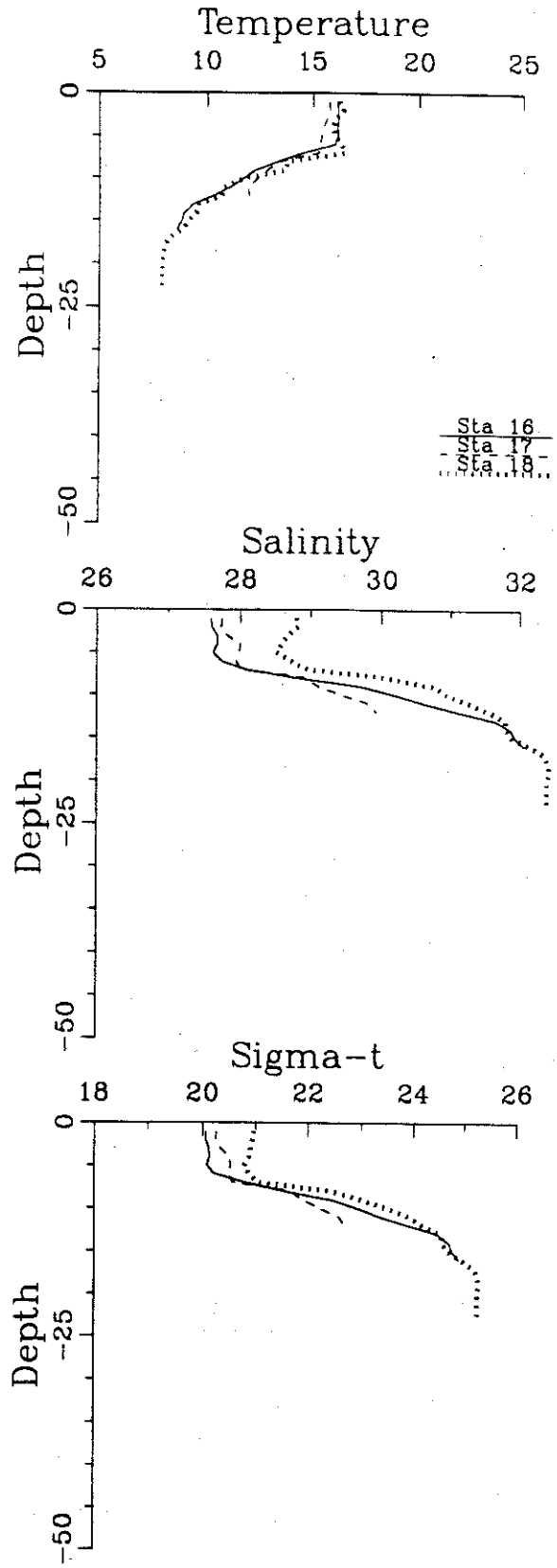
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.14	27.593	20.064	
2	16.15	27.595	20.064	
3	16.15	27.671	20.122	
4	16.13	27.671	20.126	
5	16.12	27.617	20.087	
6	15.99	27.739	20.208	
7	14.47	28.078	20.785	
8	13.27	28.769	21.552	
9	12.23	29.675	22.445	
10	11.66	30.184	22.941	
11	11.06	30.602	23.370	
12	10.23	31.128	23.919	
13	9.31	31.639	24.465	
14	8.92	31.859	24.697	
15	8.79	31.921	24.765	
16	8.59	32.056	24.901	

Sta 17 Depth 17 M Date 6/ 8/89
Lat 40 9.8N Lon 73 53.5W Time 654

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.76	27.743	20.261	
2	15.77	27.728	20.247	
3	15.62	27.810	20.342	
4	15.46	27.999	20.520	
5	15.37	27.979	20.524	
6	15.32	27.940	20.504	
7	15.22	27.994	20.567	
8	13.32	28.912	21.652	
9	12.80	29.104	21.899	
10	12.31	29.419	22.232	
11	11.88	29.786	22.594	
12	11.95	29.930	22.693	

Sta 18 Depth 27 M Date 6/ 8/89
Lat 40 9.8N Lon 73 49.2W Time 724

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.22	28.796	20.966	
3	16.02	28.661	20.906	
5	16.03	28.504	20.784	
7	16.44	28.946	21.032	
10	11.63	30.940	23.531	
12	10.66	31.559	24.181	
15	9.12	31.886	24.687	
17	8.25	32.360	25.189	
20	7.93	32.383	25.253	
22	7.90	32.381	25.256	
23	7.90	32.376	25.252	



Sta 19 Depth 48 M Date 6/ 8/89
Lat 40 9.9N Lon 73 42.2W Time 806

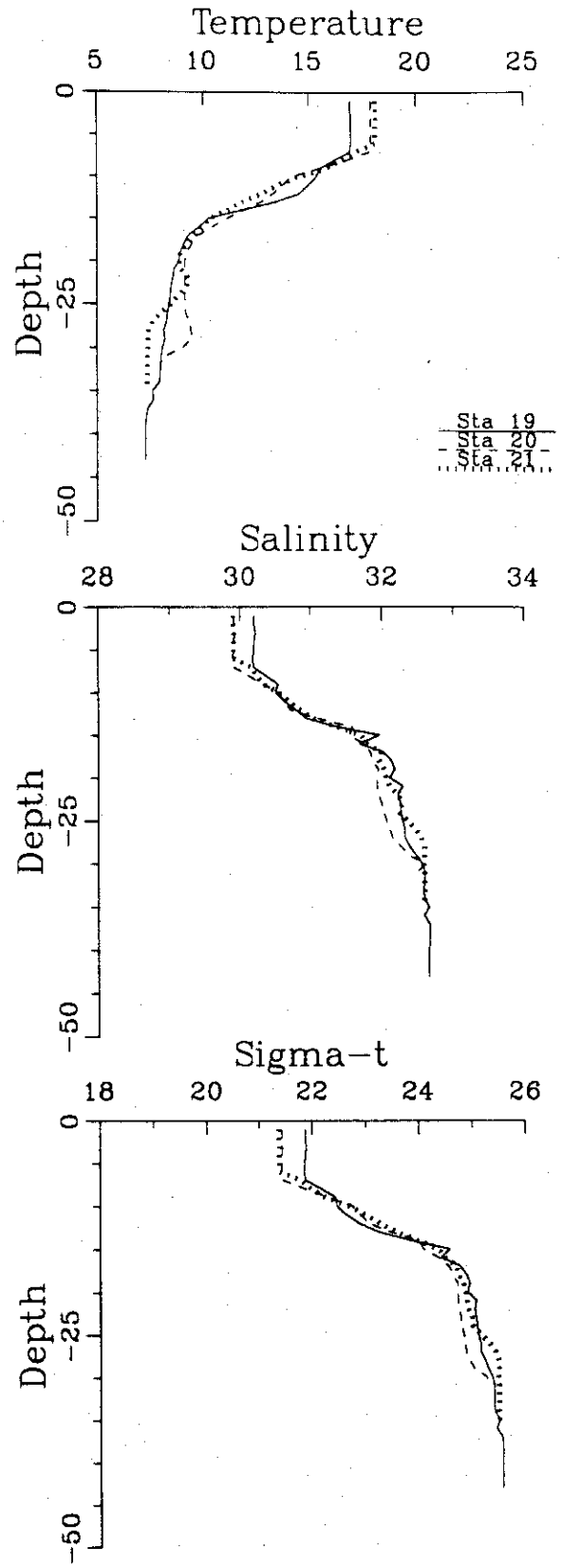
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.95	30.209	21.881	
3	16.99	30.222	21.882	
5	16.99	30.203	21.867	
7	16.94	30.201	21.877	
10	15.36	30.512	22.466	
12	14.51	30.794	22.862	
15	10.24	31.955	24.560	
17	9.25	32.019	24.770	
20	8.82	32.112	24.909	
22	8.54	32.227	25.042	
25	8.38	32.292	25.116	
27	8.26	32.329	25.163	
30	8.07	32.571	25.380	
32	7.97	32.592	25.411	
35	7.61	32.667	25.521	
40	7.25	32.666	25.571	
43	7.24	32.665	25.571	

Sta 20 Depth 36 M Date 6/ 8/89
Lat 40 10.1N Lon 73 35.9W Time 842

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.90	29.910	21.432	
3	17.90	29.926	21.444	
5	17.91	29.905	21.426	
7	17.85	29.918	21.450	
10	14.16	30.567	22.759	
12	13.31	30.720	23.046	
15	11.14	31.542	24.085	
17	9.72	31.839	24.555	
20	9.12	31.928	24.720	
22	9.11	31.957	24.744	
25	9.12	32.067	24.828	
27	9.30	32.157	24.870	
30	9.00	32.612	25.272	
31	8.20	32.480	25.290	

Sta 21 Depth 40 M Date 6/ 8/89
Lat 40 10.2N Lon 73 29.6W Time 924

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.11	29.904	21.377	
3	18.12	29.916	21.384	
5	18.10	29.913	21.387	
7	17.18	30.171	21.799	
10	14.47	30.560	22.690	
12	12.78	30.852	23.251	
15	10.29	31.702	24.355	
17	9.53	31.987	24.701	
20	8.83	32.055	24.863	
22	9.27	32.222	24.925	
25	8.45	32.353	25.154	
27	7.60	32.555	25.435	
30	7.36	32.585	25.492	
32	7.34	32.598	25.505	
35	7.33	32.605	25.512	



Sta 22 Depth 31 M Date 6/ 8/89
Lat 40 15.0N Lon 73 29.9W Time 1000

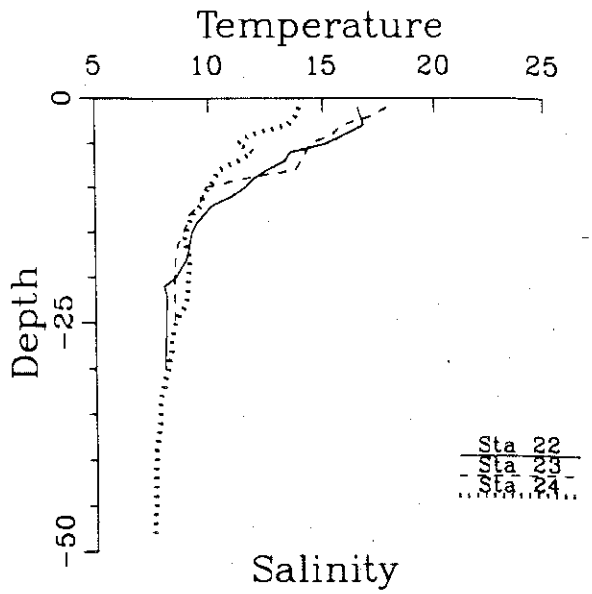
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.59	29.957	21.771	
3	16.85	30.233	21.922	
5	15.14	30.313	22.360	
7	13.32	30.798	23.105	
10	11.57	31.691	24.124	
12	10.13	32.023	24.631	
15	9.26	32.053	24.795	
17	9.12	32.118	24.868	
20	8.54	32.240	25.052	
22	8.13	32.328	25.181	
25	8.11	32.333	25.188	
27	8.09	32.335	25.193	
30	8.06	32.328	25.192	

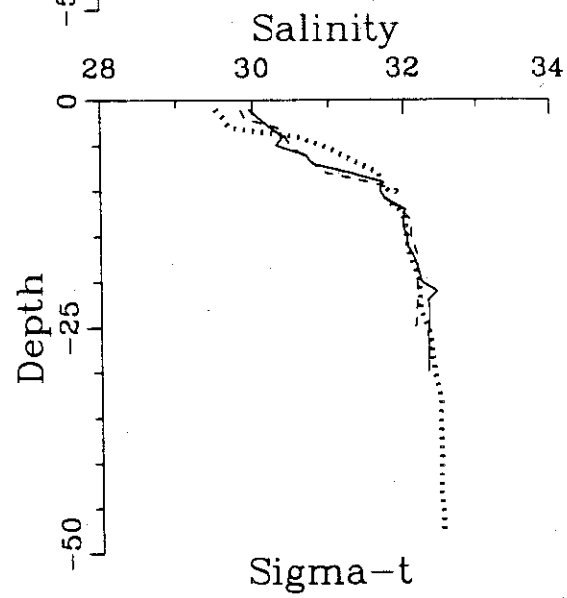
Sta 23 Depth 28 M Date 6/ 8/89
Lat 40 20.0N Lon 73 30.0W Time 1048

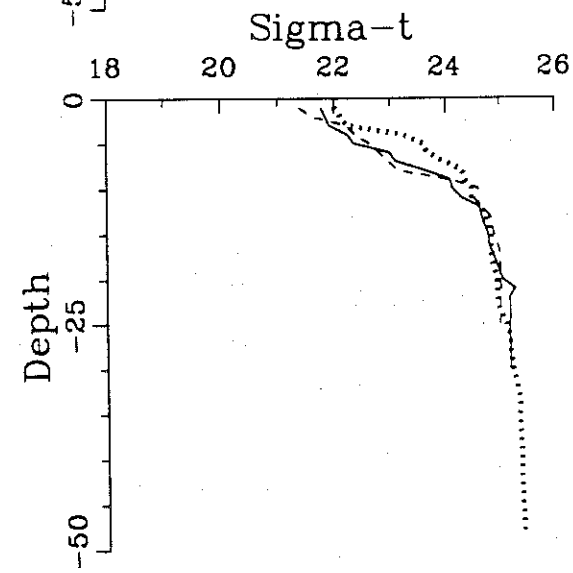
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.89	29.850	21.389	
3	15.83	30.328	22.223	
5	14.47	30.501	22.645	
8	13.79	30.967	23.141	
10	9.74	31.934	24.626	
12	9.57	31.941	24.659	
15	8.87	32.103	24.895	
17	8.58	32.180	24.999	
20	8.49	32.182	25.014	
22	8.50	32.179	25.010	
25	8.48	32.160	24.998	

Sta 24 Depth 51 M Date 6/ 8/89
Lat 40 16.9N Lon 73 47.7W Time 1218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	13.95	29.525	22.000	
3	13.45	29.707	22.239	
5	11.25	30.925	23.587	
7	11.26	31.420	23.969	
10	9.97	31.805	24.488	
12	9.62	31.934	24.645	
15	8.98	32.043	24.831	
17	9.05	32.078	24.848	
20	9.08	32.202	24.940	
22	9.04	32.221	24.961	
25	8.50	32.325	25.124	
27	8.33	32.380	25.193	
30	8.17	32.411	25.240	
32	7.99	32.466	25.310	
35	7.81	32.480	25.347	
40	7.62	32.491	25.382	
45	7.60	32.507	25.397	
48	7.54	32.520	25.416	







Sta 25 Depth 25 M Date 6/ 8/89
Lat 40 25.0N Lon 73 30.0W Time 1518

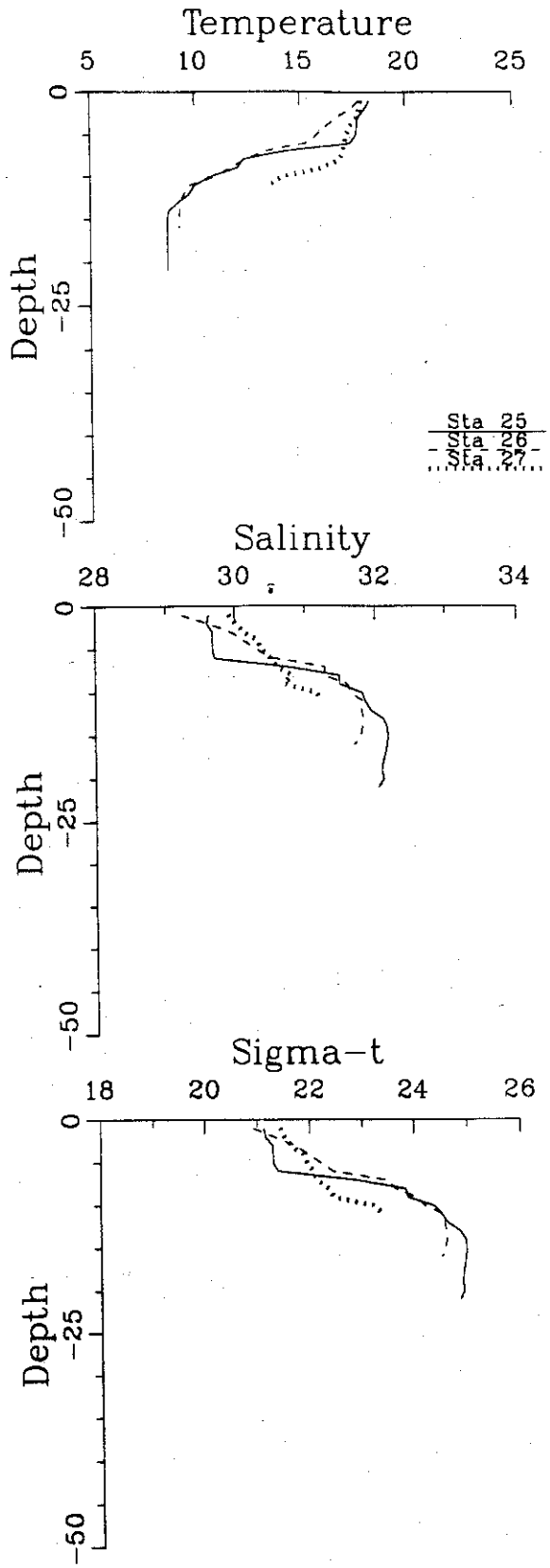
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.30	29.640	21.131	
3	17.75	29.688	21.298	
5	17.68	29.693	21.318	
7	14.31	30.735	22.857	
10	10.76	31.817	24.364	
12	9.73	31.940	24.632	
15	8.67	32.180	24.985	
17	8.67	32.146	24.959	
20	8.67	32.118	24.937	
21	8.67	32.043	24.878	

Sta 26 Depth 22 M Date 6/ 8/89
Lat 40 30.2N Lon 73 30.0W Time 1600

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.83	29.240	20.938	
2	17.38	29.630	21.340	
3	16.74	29.941	21.724	
4	16.26	30.134	21.980	
6	15.39	30.506	22.455	
7	13.36	31.292	23.477	
8	12.48	31.281	23.639	
9	11.66	31.612	24.046	
10	10.97	31.659	24.205	
11	9.75	31.833	24.546	
12	9.45	31.810	24.576	
13	9.32	31.832	24.613	
14	9.25	31.822	24.617	
15	9.24	31.796	24.598	
16	9.23	31.708	24.531	

Sta 27 Depth 16 M Date 6/ 8/89
Lat 40 32.5N Lon 73 30.0W Time 1630

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.90	29.924	21.443	
2	17.85	30.019	21.527	
3	17.70	30.127	21.644	
4	17.39	30.332	21.873	
5	17.22	30.379	21.949	
6	17.12	30.506	22.069	
7	17.07	30.601	22.153	
8	16.86	30.812	22.362	
9	16.01	30.702	22.470	
10	14.21	31.164	23.208	
11	13.55	31.243	23.402	



Sta 28 Depth 12 M Date 6/ 8/89
Lat 40 34.2N Lon 73 30.1W Time 1648

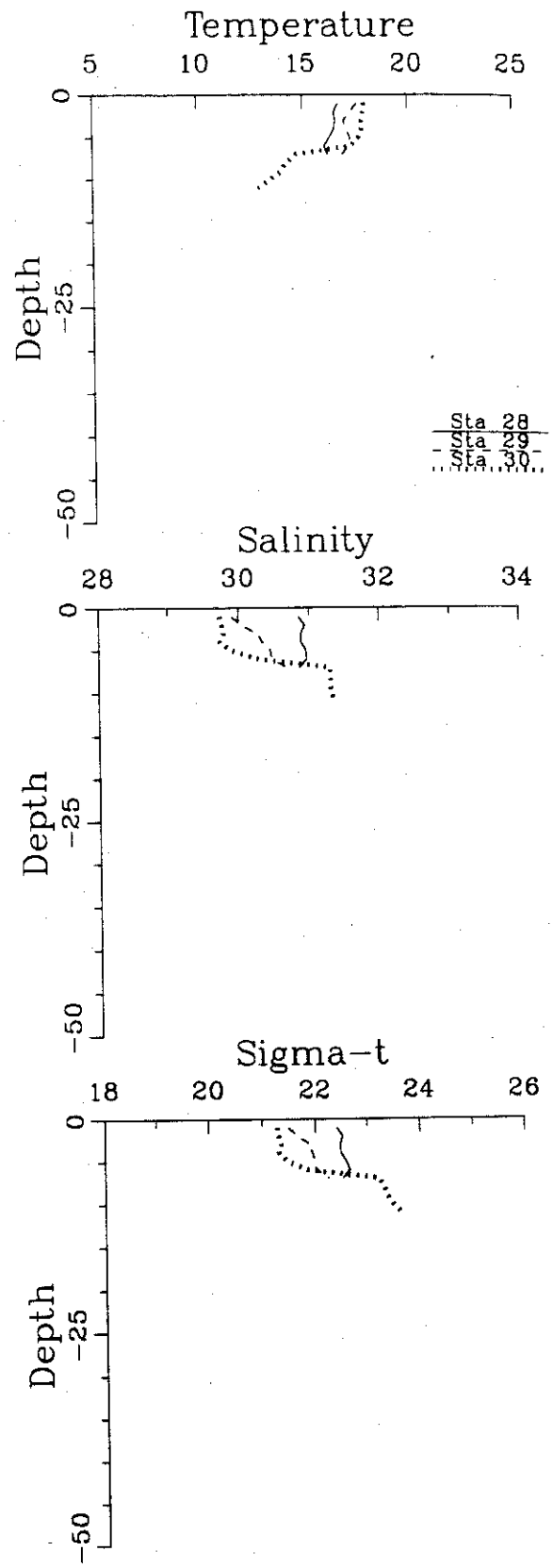
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.72	30.853	22.426	
2	16.54	30.940	22.533	
3	16.60	30.889	22.480	
4	16.53	30.894	22.500	
5	16.29	30.956	22.602	
6	16.05	30.968	22.664	
7	16.21	30.862	22.548	

Sta 29 Depth 12 M Date 6/ 8/89
Lat 40 33.3N Lon 73 39.8W Time 1754

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.62	29.911	21.499	
2	17.31	30.050	21.677	
3	17.00	30.273	21.919	
4	17.10	30.339	21.946	
5	17.30	30.461	21.993	
6	17.23	30.482	22.025	
7	16.90	30.692	22.261	

Sta 30 Depth 16 M Date 6/ 8/89
Lat 40 31.6N Lon 73 39.9W Time 1812

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.95	29.740	21.291	
2	17.92	29.768	21.319	
3	17.83	29.798	21.363	
4	17.83	29.741	21.320	
5	17.69	29.904	21.477	
6	17.32	30.289	21.857	
7	14.70	31.296	23.207	
8	14.19	31.303	23.319	
9	13.98	31.307	23.365	
10	13.47	31.315	23.473	
11	12.87	31.372	23.634	



Sta 31 Depth 20 M Date 6/ 8/89
Lat 40 30.0N Lon 73 39.8W Time 1836

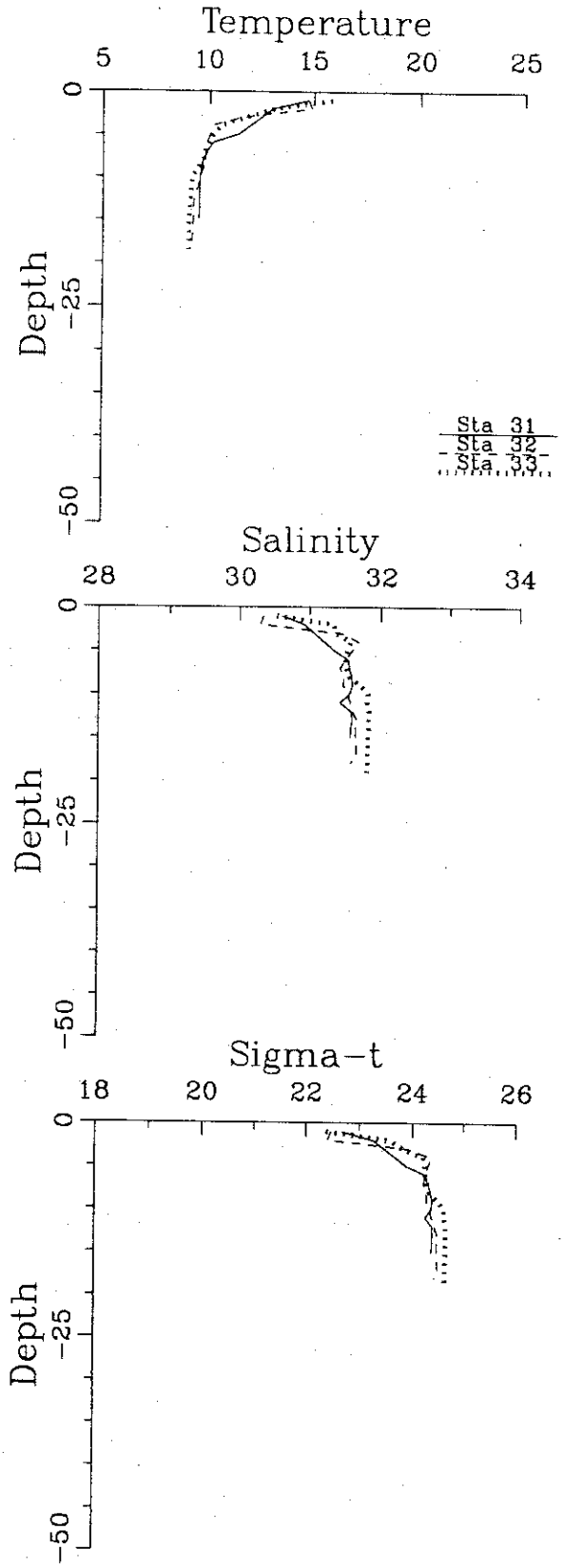
Depth	Temp	Salinity	Sigma-t	Oxygen
1	14.72	30.612	22.678	
2	13.02	30.928	23.263	
5	11.38	31.338	23.884	
6	10.16	31.539	24.250	
7	9.89	31.549	24.302	
8	9.69	31.585	24.362	
9	9.58	31.600	24.391	
10	9.55	31.558	24.364	
11	9.53	31.421	24.260	
12	9.52	31.584	24.389	
13	9.52	31.595	24.397	
14	9.51	31.582	24.389	
15	9.50	31.567	24.379	

Sta 32 Depth 23 M Date 6/ 8/89
Lat 40 26.3N Lon 73 39.8W Time 1900

Depth	Temp	Salinity	Sigma-t	Oxygen
1	14.75	30.333	22.458	
2	14.89	30.289	22.395	
3	11.58	31.426	23.917	
4	10.19	31.684	24.357	
6	9.86	31.494	24.264	
7	9.84	31.426	24.214	
8	9.73	31.479	24.273	
9	9.68	31.469	24.273	
10	9.56	31.528	24.339	
11	9.46	31.567	24.385	
12	9.36	31.601	24.427	
13	9.22	31.663	24.497	
14	9.23	31.646	24.483	
15	9.22	31.648	24.486	
16	9.20	31.655	24.494	
17	9.19	31.653	24.494	
18	9.19	31.580	24.437	

Sta 33 Depth 24 M Date 6/ 8/89
Lat 40 23.4N Lon 73 39.8W Time 1924

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.82	30.523	22.374	
2	13.11	31.333	23.558	
3	11.78	31.364	23.832	
4	10.56	31.574	24.210	
5	10.22	31.526	24.230	
6	9.92	31.496	24.256	
7	9.78	31.513	24.292	
8	9.69	31.553	24.337	
9	9.44	31.707	24.497	
10	9.17	31.821	24.628	
11	9.14	31.812	24.626	
12	9.09	31.839	24.655	
13	9.06	31.832	24.654	
14	9.03	31.834	24.660	
15	9.02	31.825	24.655	
16	9.02	31.826	24.656	
17	9.02	31.815	24.647	
18	9.02	31.815	24.647	
19	9.02	31.812	24.645	



Sta 34 Depth 25 M Date 6/ 8/89
Lat 40 20.9N Lon 73 40.0W Time 1948

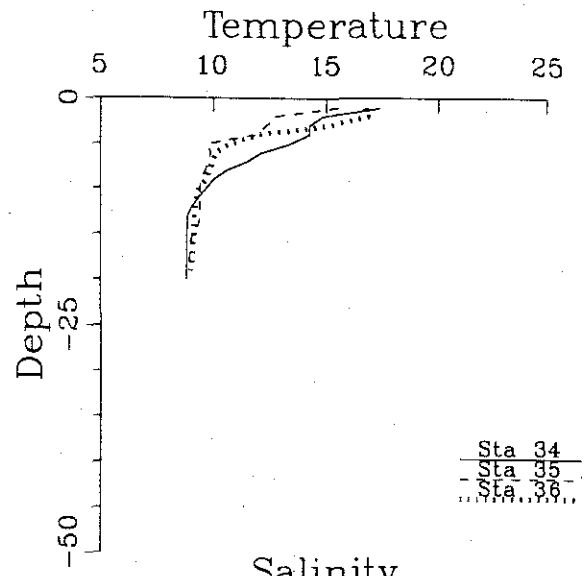
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.35	30.186	21.771	
3	14.25	30.747	22.879	
5	13.36	30.822	23.115	
7	11.53	31.164	23.723	
10	9.68	31.755	24.496	
12	9.02	31.938	24.743	
15	8.84	32.015	24.831	
17	8.84	32.003	24.821	
20	8.84	31.990	24.811	

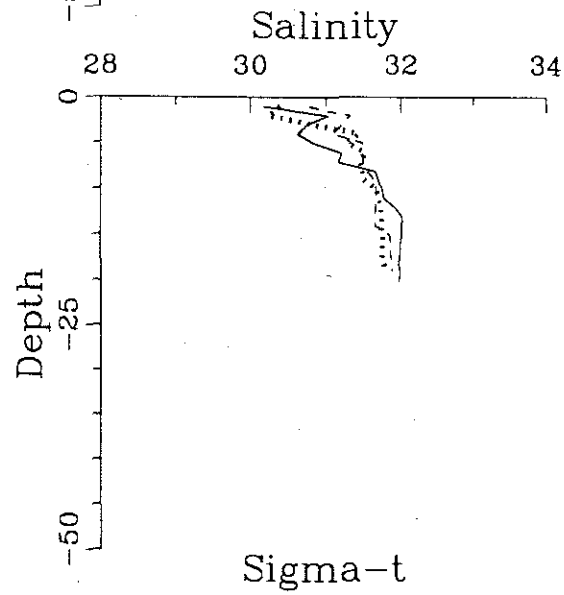
Sta 35 Depth 24 M Date 6/ 8/89
Lat 40 24.0N Lon 73 41.2W Time 2018

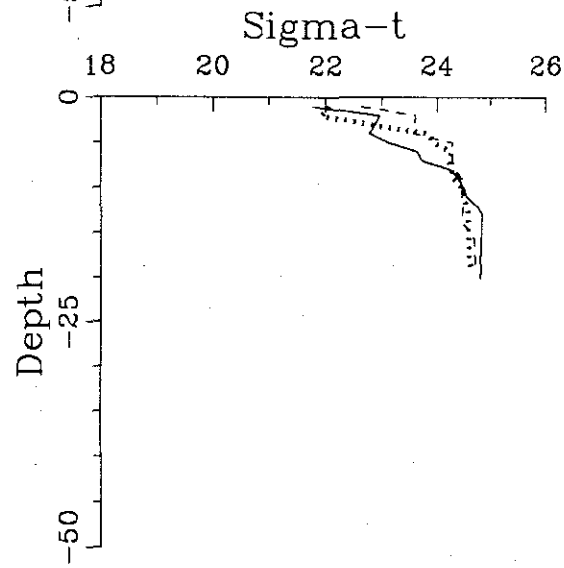
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.52	30.783	22.639	
2	12.75	31.317	23.615	
4	11.97	31.084	23.581	
5	9.76	31.487	24.275	
6	9.87	31.493	24.261	
7	9.79	31.494	24.275	
8	9.63	31.546	24.341	
9	9.47	31.661	24.456	
10	9.40	31.662	24.468	
11	9.41	31.673	24.475	
12	9.41	31.663	24.468	
13	9.41	31.656	24.462	
14	9.35	31.660	24.475	
15	9.08	31.852	24.667	
16	9.00	31.875	24.697	
17	8.97	31.876	24.702	
18	8.94	31.884	24.713	
19	8.92	31.878	24.712	

Sta 36 Depth 24 M Date 6/ 8/89
Lat 40 25.0N Lon 73 41.3W Time 2030

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.72	30.390	22.072	
2	16.86	30.237	21.923	
3	15.16	30.861	22.776	
4	12.05	31.432	23.836	
5	10.78	31.275	23.940	
6	10.10	31.522	24.246	
7	9.97	31.449	24.211	
8	9.83	31.479	24.257	
9	9.66	31.501	24.302	
10	9.36	31.664	24.476	
11	9.27	31.701	24.519	
12	9.21	31.728	24.550	
13	9.16	31.742	24.568	
14	9.14	31.750	24.578	
15	9.14	31.758	24.584	
16	9.11	31.763	24.592	
17	9.09	31.763	24.596	
18	9.08	31.756	24.592	
19	9.02	31.801	24.636	







Sta 37 Depth 28 M Date 6/ 8/89
Lat 40 26.2N Lon 73 43.6W Time 2054

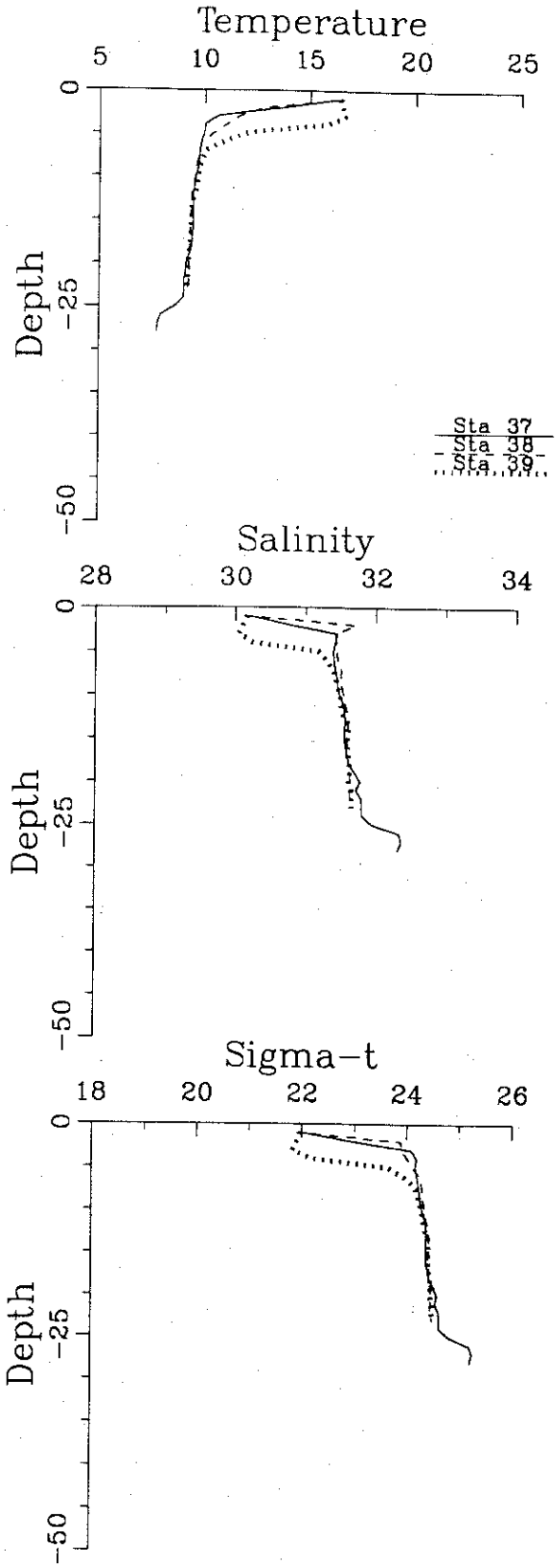
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.25	30.205	22.036	
3	10.63	31.441	24.095	
5	9.94	31.386	24.167	
7	9.76	31.419	24.222	
10	9.56	31.478	24.300	
12	9.44	31.552	24.376	
15	9.43	31.551	24.377	
17	9.39	31.586	24.411	
20	9.10	31.774	24.603	
22	9.01	31.795	24.633	
25	8.58	31.960	24.827	
27	7.76	32.369	25.267	
28	7.75	32.319	25.229	

Sta 38 Depth 28 M Date 6/ 8/89
Lat 40 26.4N Lon 73 44.5W Time 2106

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.59	30.119	21.894	
3	11.66	31.419	23.897	
6	9.84	31.450	24.233	
7	9.73	31.501	24.290	
10	9.50	31.533	24.352	
12	9.36	31.592	24.420	
15	9.31	31.591	24.427	
17	9.28	31.594	24.434	
20	9.24	31.627	24.466	
22	9.24	31.634	24.472	
23	9.18	31.670	24.509	

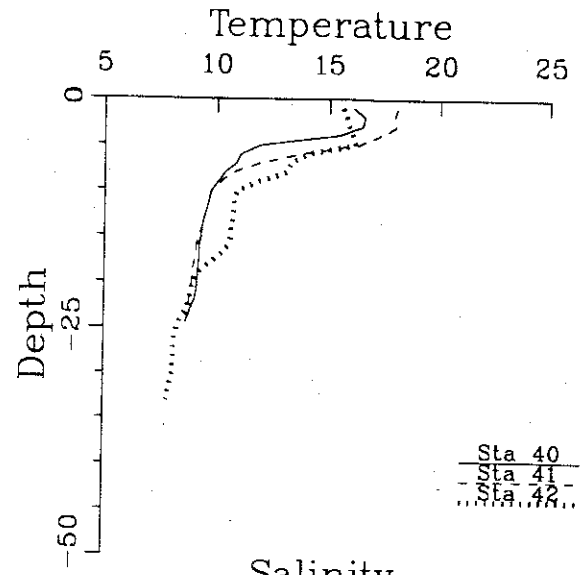
Sta 39 Depth 28 M Date 6/ 8/89
Lat 40 26.6N Lon 73 46.2W Time 2130

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.40	30.163	21.971	
3	16.65	30.045	21.824	
5	12.03	31.181	23.645	
7	10.06	31.376	24.139	
10	9.67	31.486	24.288	
12	9.52	31.509	24.330	
15	9.33	31.597	24.429	
17	9.29	31.604	24.440	
20	9.20	31.615	24.463	
22	9.17	31.653	24.497	
23	9.16	31.656	24.501	



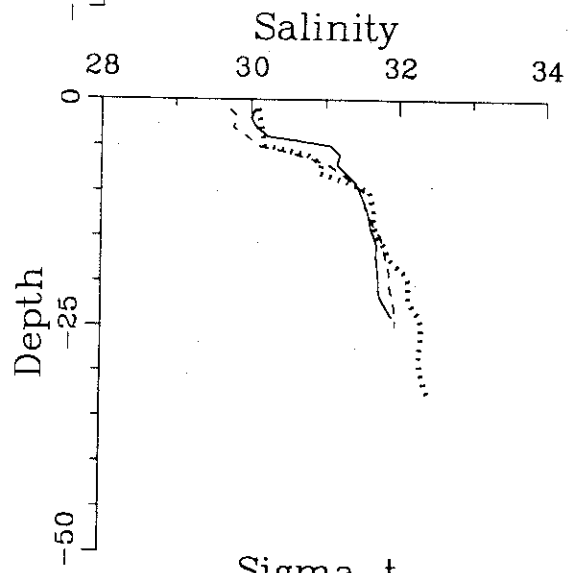
Sta 40 Depth 29 M Date 6/ 8/89
Lat 40 25.5N Lon 73 45.8W Time 2218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.06	30.056	21.964	
3	16.46	30.071	21.887	
5	11.92	31.050	23.564	
7	10.86	31.149	23.829	
10	9.77	31.446	24.241	
12	9.54	31.555	24.363	
15	9.31	31.653	24.476	
17	9.22	31.690	24.518	
20	9.15	31.722	24.554	
22	9.04	31.757	24.599	
24	8.73	31.914	24.769	



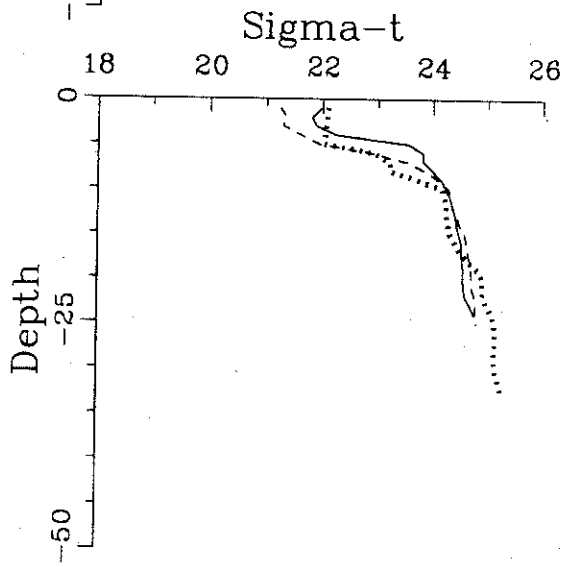
Sta 41 Depth 29 M Date 6/ 8/89
Lat 40 25.0N Lon 73 45.6W Time 2230

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.09	29.716	21.239	
3	18.02	29.761	21.290	
5	16.29	30.097	21.945	
7	11.88	31.017	23.546	
10	9.76	31.500	24.285	
12	9.54	31.535	24.347	
15	9.19	31.755	24.574	
17	9.06	31.809	24.636	
20	8.91	31.873	24.709	
22	8.80	31.931	24.771	
25	8.66	31.960	24.815	



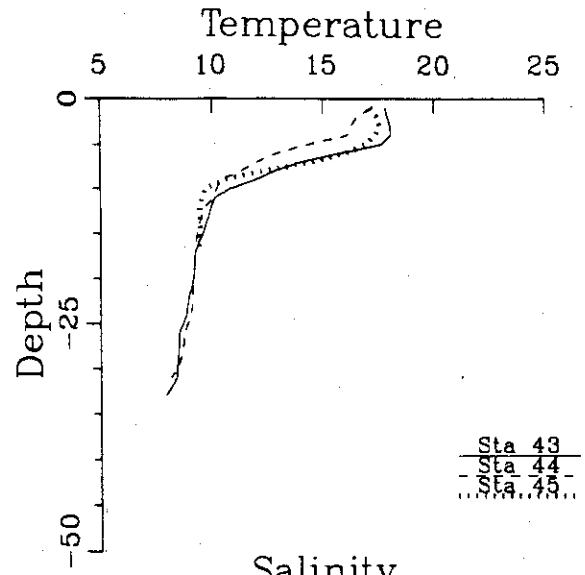
Sta 42 Depth 38 M Date 6/ 8/89
Lat 40 22.9N Lon 73 47.6W Time 2336

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.60	30.096	22.095	
5	16.15	30.175	22.035	
6	14.07	30.756	22.923	
7	13.26	30.938	23.224	
10	10.92	31.593	24.163	
12	10.76	31.653	24.237	
15	10.63	31.708	24.302	
17	10.13	31.849	24.496	
20	8.91	32.137	24.915	
22	8.80	32.133	24.929	
25	8.26	32.314	25.151	
27	8.14	32.307	25.163	
30	8.11	32.296	25.159	
32	7.93	32.380	25.251	
33	7.82	32.432	25.307	



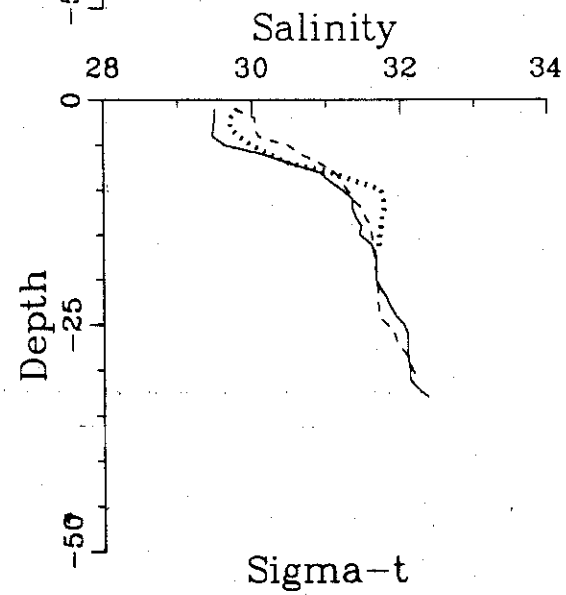
Sta 43 Depth 36 M Date 6/ 9/89
Lat 40 24.5N Lon 73 47.5W Time 54

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.83	29.502	21.138	
3	18.01	29.487	21.084	
5	17.64	29.632	21.281	
7	13.97	30.530	22.769	
10	10.82	31.222	23.892	
12	9.96	31.368	24.150	
15	9.57	31.462	24.286	
17	9.24	31.673	24.502	
20	9.16	31.677	24.518	
22	8.94	31.813	24.658	
25	8.68	32.046	24.879	
27	8.52	32.095	24.942	
30	8.41	32.122	24.979	
32	8.16	32.237	25.106	
33	7.90	32.380	25.255	



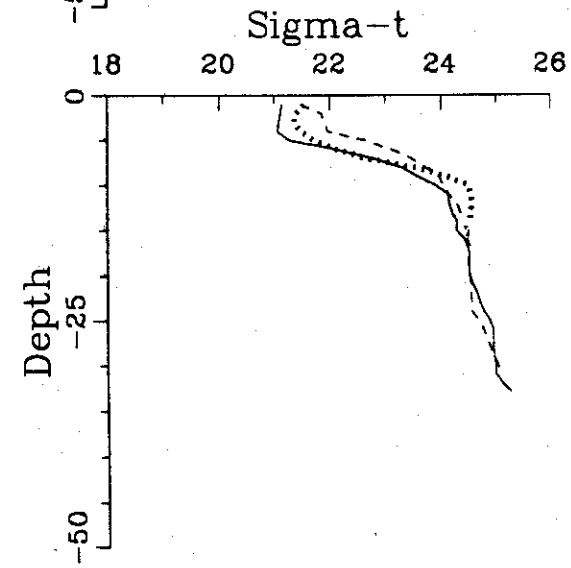
Sta 44 Depth 35 M Date 6/ 9/89
Lat 40 25.0N Lon 73 48.3W Time 206

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.20	29.772	21.490	
3	16.28	30.046	21.908	
5	14.38	30.494	22.658	
7	11.97	30.925	23.458	
10	10.22	31.296	24.051	
12	9.67	31.475	24.280	
15	9.32	31.624	24.451	
17	9.24	31.645	24.480	
20	9.16	31.682	24.522	
22	9.11	31.696	24.540	
25	8.88	31.819	24.672	
27	8.72	31.958	24.804	
30	8.40	32.157	25.008	
31	8.15	32.230	25.102	



Sta 45 Depth 21 M Date 6/ 9/89
Lat 40 23.5N Lon 73 52.1W Time 242

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.15	29.813	21.533	
2	17.46	29.711	21.384	
3	17.54	29.706	21.361	
4	17.38	29.821	21.486	
5	16.94	30.000	21.724	
6	15.99	30.243	22.123	
7	14.49	30.512	22.649	
8	12.16	31.056	23.525	
9	10.55	31.414	24.087	
10	9.68	31.743	24.487	
11	9.53	31.771	24.533	
12	9.44	31.786	24.559	
13	9.44	31.758	24.537	
14	9.43	31.742	24.526	
15	9.43	31.727	24.514	
16	9.42	31.716	24.507	
17	9.41	31.708	24.503	



Sta 46 Depth 25 M Date 6/ 9/89
Lat 40 23.8N Lon 73 53.0W Time 306

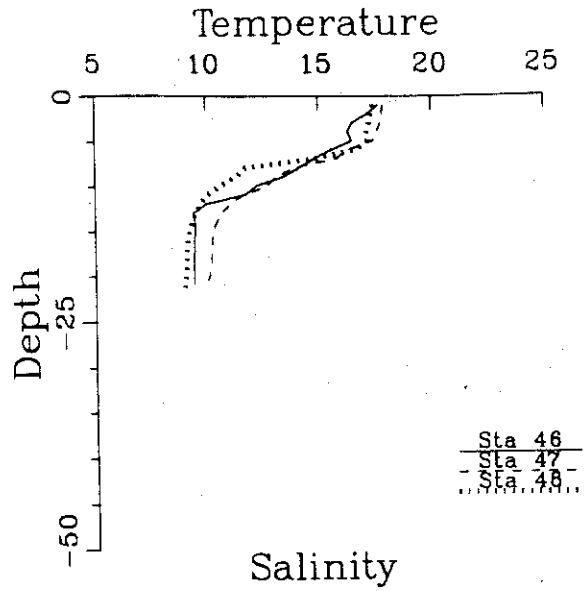
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.65	29.176	20.932	
3	16.49	29.479	21.428	
5	16.48	29.654	21.564	
7	14.84	30.346	22.449	
10	12.28	31.095	23.532	
12	9.97	31.562	24.299	
15	9.49	31.732	24.509	
17	9.45	31.705	24.494	
20	9.43	31.664	24.465	
21	9.43	31.659	24.461	

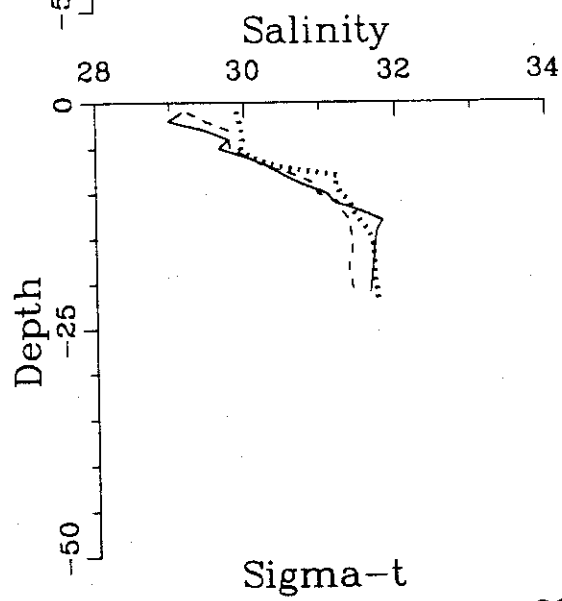
Sta 47 Depth 25 M Date 6/ 9/89
Lat 40 25.6N Lon 73 54.0W Time 324

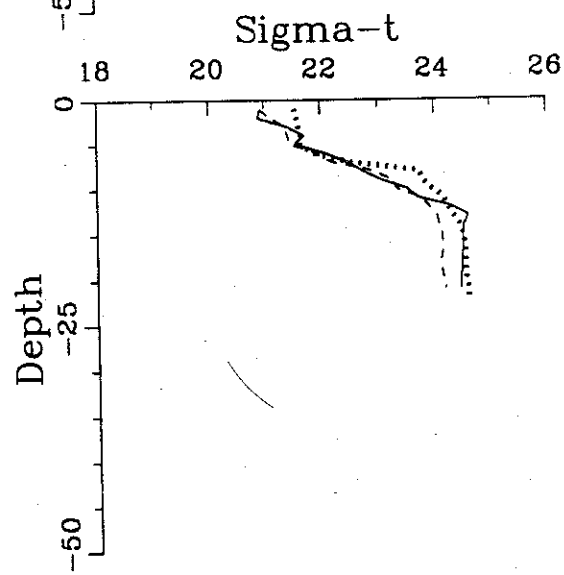
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.85	29.243	20.936	
3	17.74	29.795	21.382	
5	17.39	29.812	21.477	
7	15.80	30.286	22.197	
10	12.75	30.973	23.350	
12	11.05	31.296	23.910	
15	10.30	31.420	24.134	
17	10.23	31.414	24.141	
20	10.11	31.414	24.161	
21	10.00	31.426	24.188	

Sta 48 Depth 28 M Date 6/ 9/89
Lat 40 26.4N Lon 73 49.9W Time 418

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.41	29.909	21.546	
3	17.25	29.963	21.624	
5	17.13	29.958	21.648	
7	14.95	30.459	22.512	
10	10.64	31.271	23.961	
12	9.73	31.434	24.238	
15	9.23	31.673	24.504	
17	9.11	31.710	24.551	
20	9.06	31.728	24.573	
22	9.02	31.753	24.599	







Sta 49 Depth 24 M Date 6/ 9/89
Lat 40 26.8N Lon 73 52.2W Time 518

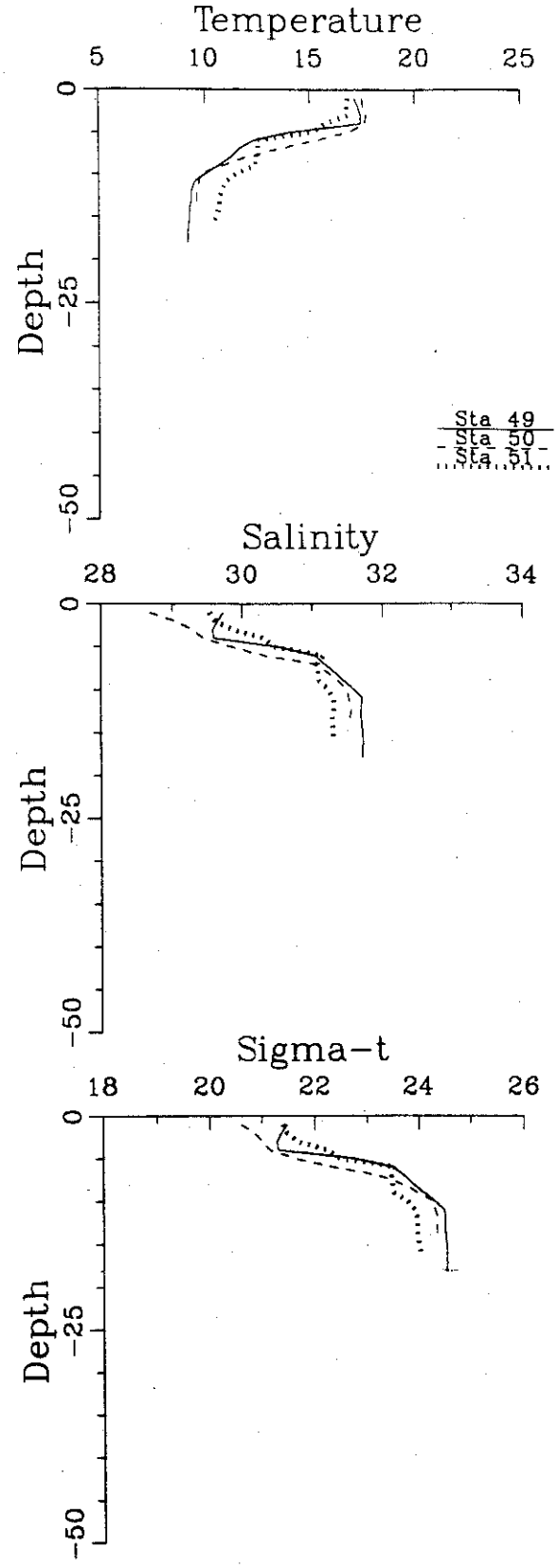
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.13	29.728	21.473	
2	17.29	29.648	21.375	
3	17.42	29.579	21.292	
4	17.41	29.598	21.309	
5	14.03	30.519	22.748	
6	12.31	31.041	23.485	
7	11.63	31.183	23.719	
8	11.23	31.328	23.903	
9	10.68	31.458	24.099	
10	10.04	31.599	24.316	
11	9.48	31.705	24.489	
12	9.36	31.701	24.505	
13	9.34	31.688	24.498	
14	9.27	31.705	24.522	
15	9.25	31.717	24.535	
16	9.21	31.723	24.546	
17	9.19	31.719	24.546	
18	9.18	31.716	24.545	

Sta 50 Depth 19 M Date 6/ 9/89
Lat 40 26.8N Lon 73 53.6W Time 530

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.47	28.685	20.599	
2	17.53	29.037	20.854	
3	17.67	29.292	21.015	
4	17.63	29.454	21.148	
5	16.83	29.857	21.640	
6	15.27	30.328	22.344	
7	13.58	31.024	23.227	
8	12.02	31.230	23.685	
10	9.77	31.508	24.289	
11	9.73	31.521	24.306	
12	9.60	31.564	24.360	
13	9.61	31.546	24.345	
14	9.59	31.536	24.340	

Sta 51 Depth 21 M Date 6/ 9/89
Lat 40 27.1N Lon 73 54.5W Time 548

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.79	29.535	21.403	
2	16.74	29.619	21.479	
3	16.79	29.869	21.658	
4	15.71	30.327	22.248	
5	15.11	30.459	22.479	
6	12.49	31.161	23.544	
7	12.55	31.074	23.466	
8	12.50	31.084	23.483	
9	12.40	31.104	23.517	
10	11.50	31.233	23.781	
11	10.96	31.299	23.928	
12	10.78	31.316	23.972	
13	10.67	31.289	23.970	
14	10.66	31.289	23.971	
15	10.52	31.303	24.006	
16	10.38	31.305	24.031	



Sta 52 Depth 18 M Date 6/ 9/89
Lat 40 28.8N Lon 73 55.3W Time 642

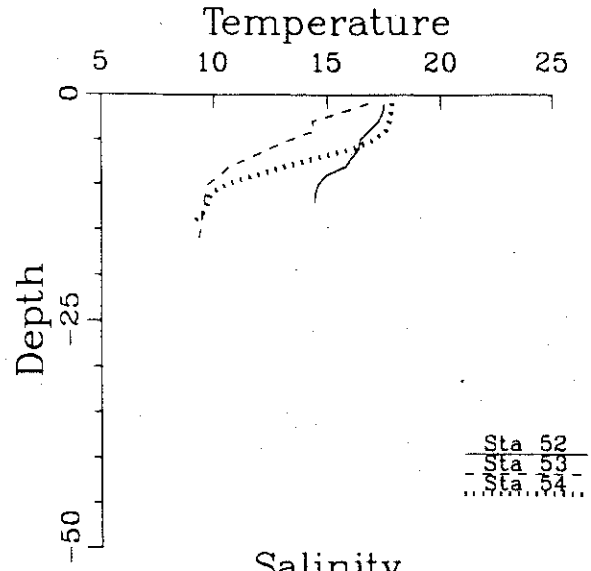
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.51	28.635	20.552	
2	17.44	29.013	20.856	
3	17.25	29.562	21.319	
4	16.85	29.913	21.678	
5	16.40	30.066	21.896	
6	16.38	30.053	21.891	
7	16.08	30.177	22.052	
8	15.80	30.272	22.187	
9	14.95	30.459	22.512	
10	14.59	30.516	22.631	
11	14.47	30.509	22.651	
12	14.44	30.497	22.648	

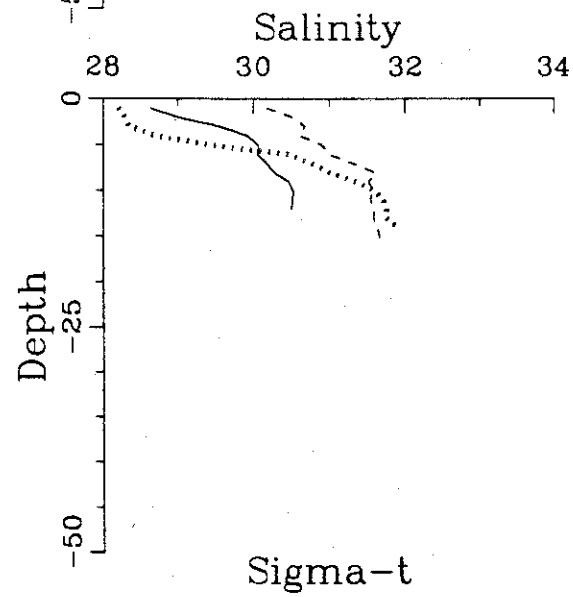
Sta 53 Depth 21 M Date 6/ 9/89
Lat 40 19.6N Lon 73 53.5W Time 848

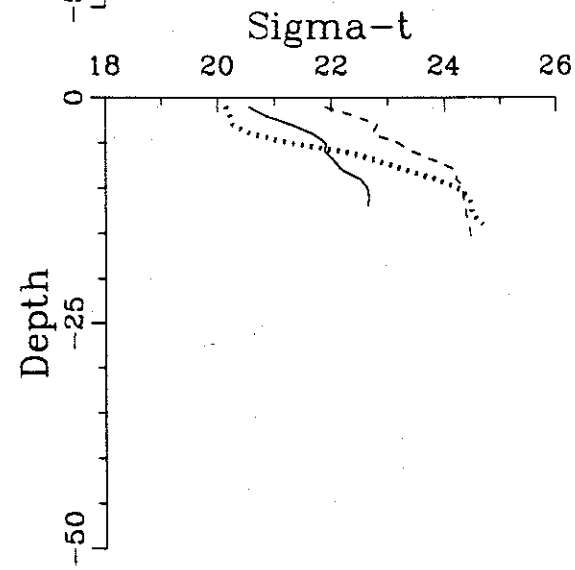
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.79	30.176	21.893	
2	15.59	30.513	22.417	
3	14.33	30.678	22.810	
4	14.49	30.607	22.722	
5	13.37	30.896	23.170	
6	12.45	30.994	23.423	
8	10.74	31.608	24.205	
9	10.28	31.513	24.209	
10	9.76	31.563	24.334	
11	9.65	31.537	24.331	
12	9.57	31.584	24.381	
13	9.53	31.583	24.386	
14	9.46	31.639	24.441	
15	9.41	31.653	24.460	
16	9.36	31.675	24.485	

Sta 54 Depth 18 M Date 6/ 9/89
Lat 39 55.0N Lon 74 0.0W Time 1242

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.86	28.207	20.145	
2	17.79	28.288	20.223	
3	17.73	28.341	20.277	
4	17.56	28.700	20.590	
5	17.09	29.447	21.268	
6	16.15	30.467	22.259	
7	14.64	30.768	22.815	
8	13.14	31.007	23.301	
9	11.83	31.340	23.805	
10	10.59	31.600	24.225	
11	9.87	31.706	24.427	
12	9.73	31.749	24.483	
13	9.58	31.749	24.508	
14	9.16	31.888	24.682	







Sta 55 Depth 24 M Date 6/ 9/89
Lat 39 55.0N Lon 73 54.0W Time 1330

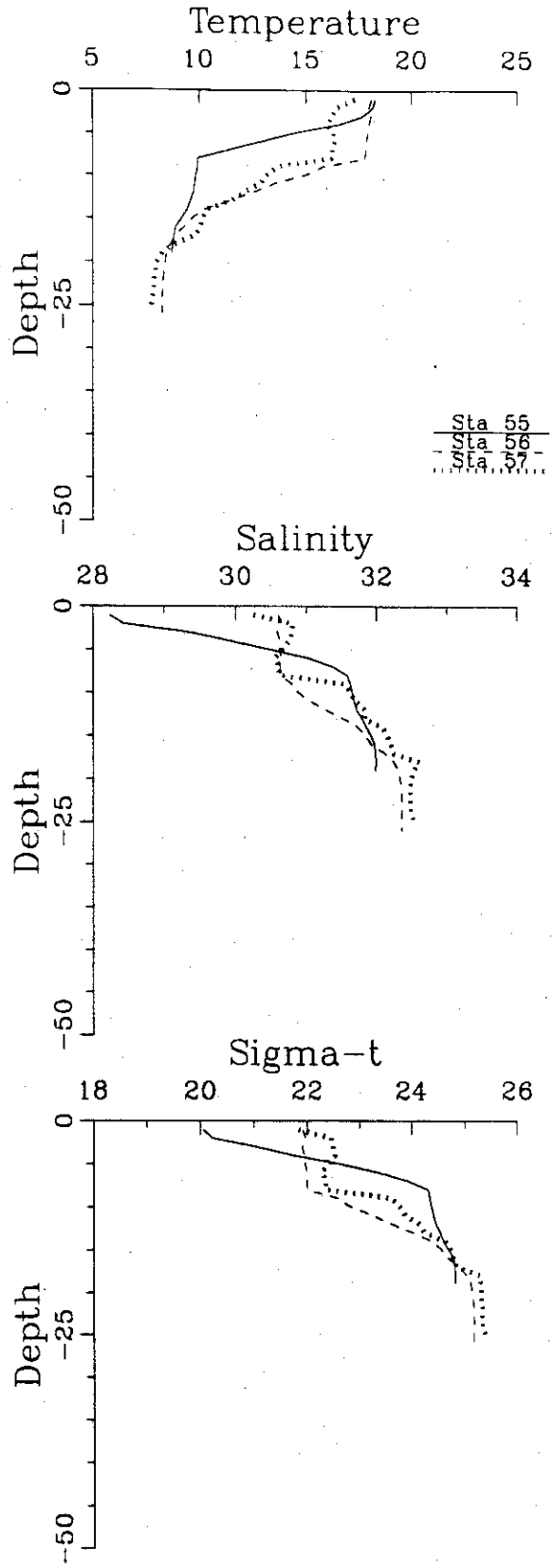
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.31	28.234	20.059	
2	18.17	28.432	20.243	
3	17.66	29.366	21.074	
4	16.55	29.921	21.752	
5	14.42	30.462	22.625	
6	12.98	31.033	23.352	
7	11.36	31.383	23.923	
8	9.91	31.582	24.324	
9	9.92	31.618	24.351	
10	9.85	31.646	24.384	
11	9.77	31.673	24.418	
12	9.71	31.718	24.462	
13	9.59	31.798	24.544	
14	9.42	31.855	24.616	
15	9.18	31.921	24.705	
16	8.88	31.977	24.795	
17	8.79	31.984	24.814	
18	8.74	31.994	24.830	
19	8.73	31.987	24.826	

Sta 56 Depth 30 M Date 6/ 9/89
Lat 39 55.0N Lon 73 46.0W Time 1412

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.11	30.618	21.921	
3	18.07	30.590	21.909	
5	17.91	30.624	21.973	
7	17.83	30.633	21.999	
10	14.99	30.878	22.825	
12	12.53	31.274	23.624	
15	9.67	31.844	24.567	
17	8.89	32.115	24.901	
20	8.41	32.339	25.149	
22	8.30	32.367	25.187	
25	8.27	32.362	25.187	
26	8.27	32.361	25.187	

Sta 57 Depth 28 M Date 6/ 9/89
Lat 39 55.0N Lon 73 38.0W Time 1506

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.30	30.258	21.838	
4	15.97	30.770	22.530	
5	16.27	30.659	22.379	
7	16.21	30.617	22.360	
10	13.12	31.622	23.779	
12	12.08	31.841	24.146	
15	10.15	32.153	24.729	
17	9.81	32.244	24.856	
20	7.99	32.487	25.326	
22	7.89	32.491	25.344	
25	7.73	32.536	25.402	



Sta 58 Depth 31 M Date 6/ 9/89
Lat 39 55.2N Lon 73 29.8W Time 1600

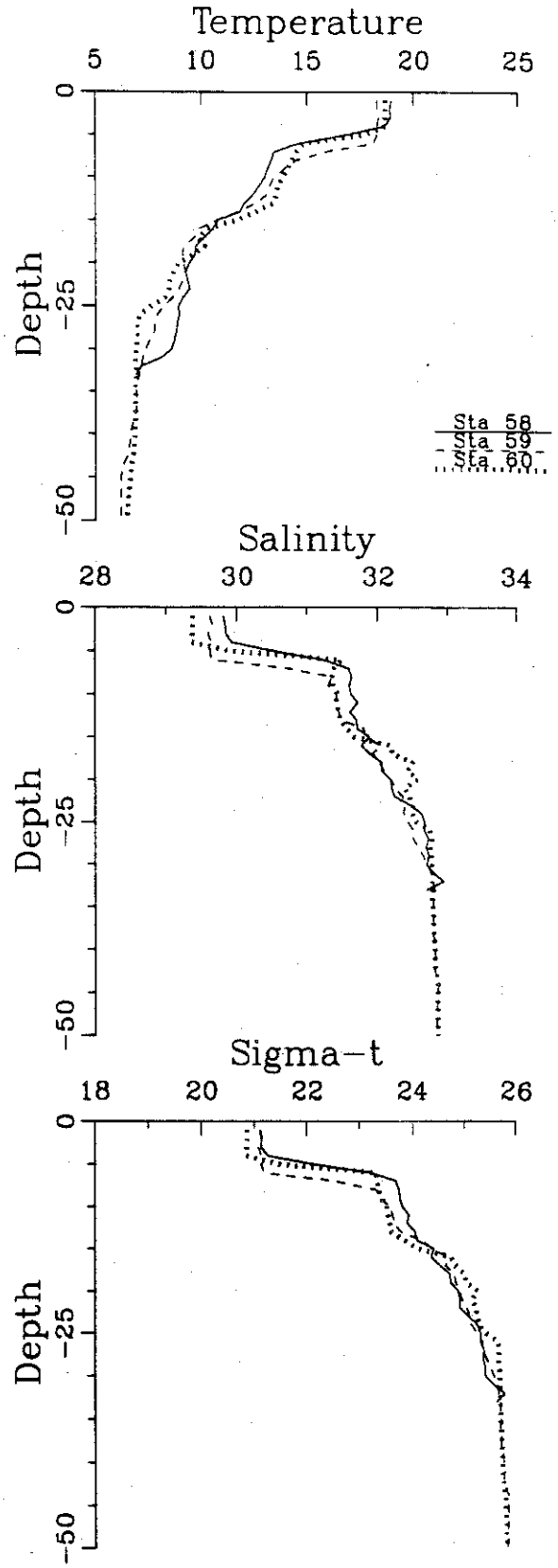
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.91	29.807	21.110	
3	18.87	29.837	21.142	
5	16.77	30.491	22.138	
7	13.41	31.586	23.694	
10	12.94	31.624	23.815	
12	12.36	31.607	23.913	
15	10.71	31.880	24.422	
17	10.06	31.879	24.531	
20	9.37	32.186	24.882	
22	9.29	32.223	24.923	
25	8.87	32.654	25.325	
27	8.80	32.720	25.387	
30	8.53	32.695	25.409	
32	7.12	32.929	25.795	
33	6.89	32.688	25.637	

Sta 59 Depth 59 M Date 6/ 9/89
Lat 39 59.3N Lon 73 23.9W Time 1642

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.25	29.616	21.125	
3	18.35	29.588	21.079	
5	18.26	29.615	21.122	
7	15.77	30.722	22.538	
10	13.37	31.419	23.573	
12	13.01	31.446	23.665	
15	10.67	31.818	24.380	
17	9.60	31.928	24.644	
20	9.12	32.171	24.909	
22	9.06	32.354	25.061	
25	8.20	32.431	25.252	
27	7.80	32.511	25.372	
30	7.37	32.696	25.578	
32	7.12	32.771	25.671	
35	6.93	32.803	25.722	
40	6.67	32.821	25.770	
45	6.23	32.862	25.859	
50	6.22	32.852	25.852	
53	6.21	32.850	25.852	

Sta 60 Depth 77 M Date 6/ 9/89
Lat 40 0.3N Lon 73 22.6W Time 1706

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.62	29.369	20.848	
3	18.63	29.364	20.841	
5	17.67	29.895	21.475	
7	14.45	31.377	23.322	
10	13.79	31.437	23.503	
15	11.60	31.667	24.100	
20	8.84	32.571	25.265	
25	7.63	32.546	25.424	
30	6.93	32.772	25.697	
35	6.90	32.785	25.711	
40	6.85	32.821	25.746	
50	6.51	32.865	25.825	
60	6.33	32.867	25.850	
70	6.16	32.885	25.886	
71	6.12	32.886	25.891	



Sta 61 Depth 54 M Date 6/ 9/89
Lat 40 1.1N Lon 73 21.3W Time 1730

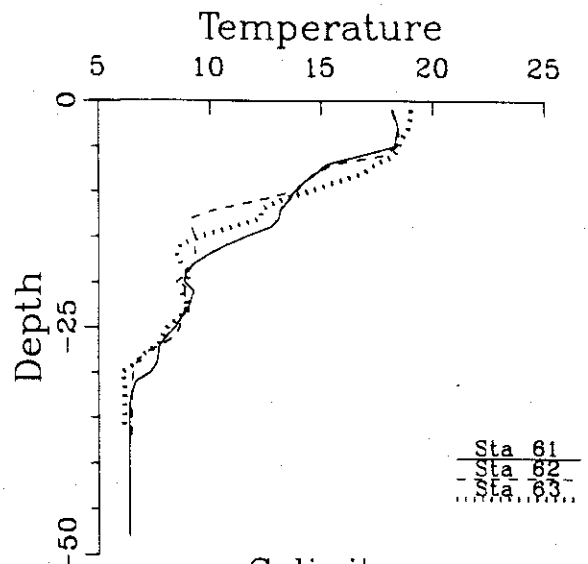
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.16	29.649	21.171	
3	18.42	29.443	20.952	
5	18.27	29.535	21.058	
7	15.25	31.249	23.054	
10	13.81	31.424	23.489	
12	13.18	31.433	23.621	
15	11.61	31.736	24.151	
17	9.88	32.204	24.813	
20	8.85	32.247	25.010	
22	9.15	32.505	25.165	
25	8.46	32.585	25.334	
27	7.73	32.708	25.537	
30	7.35	32.757	25.628	
32	6.52	32.853	25.815	
35	6.39	32.848	25.827	
40	6.39	32.847	25.827	
45	6.39	32.850	25.829	
48	6.40	32.855	25.832	

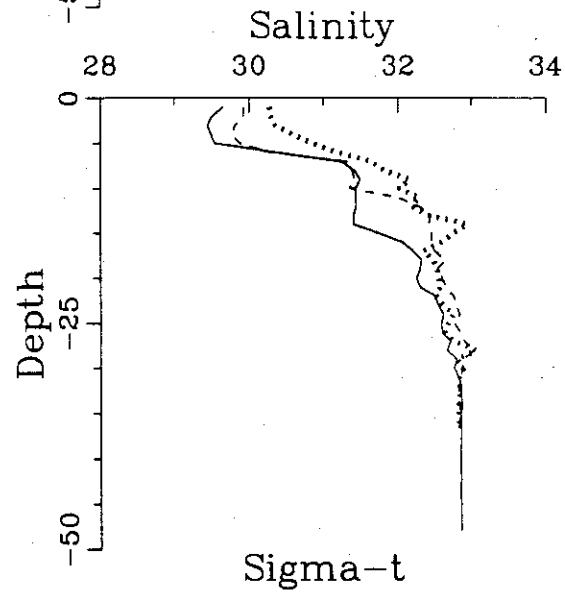
Sta 62 Depth 41 M Date 6/ 9/89
Lat 40 4.1N Lon 73 17.8W Time 1806

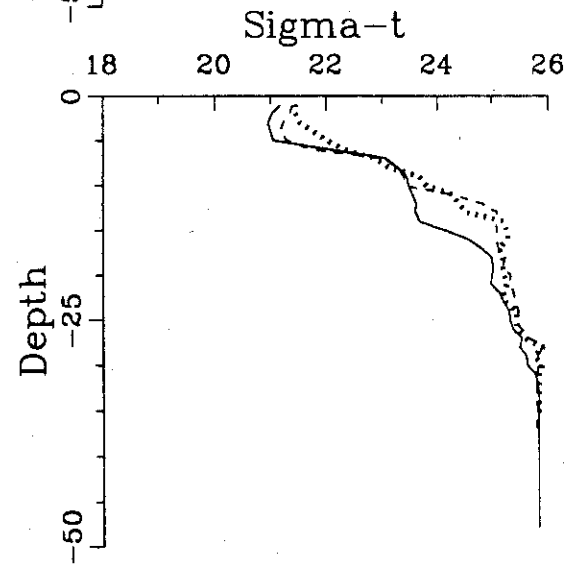
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.14	29.927	21.388	
3	18.41	29.807	21.231	
5	18.34	29.873	21.299	
7	15.57	31.321	23.040	
10	13.85	31.348	23.423	
12	10.26	32.289	24.816	
15	9.32	32.460	25.103	
17	9.35	32.501	25.130	
20	8.49	32.599	25.340	
22	8.88	32.754	25.402	
25	8.65	32.762	25.443	
27	7.84	32.900	25.671	
30	6.55	32.878	25.831	
32	6.48	32.827	25.799	
35	6.47	32.828	25.802	
37	6.47	32.816	25.792	

Sta 63 Depth 42 M Date 6/ 9/89
Lat 40 10.3N Lon 73 9.8W Time 1906

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.99	30.278	21.448	
3	18.88	30.357	21.535	
5	18.46	30.854	22.016	
7	17.37	31.636	22.873	
10	14.46	32.008	23.805	
12	12.30	32.187	24.373	
15	9.59	32.744	25.281	
17	8.52	32.345	25.137	
20	8.98	32.550	25.227	
22	8.86	32.515	25.218	
25	8.12	32.678	25.457	
27	7.69	32.748	25.574	
30	6.06	32.881	25.895	
32	6.16	32.831	25.843	
35	6.15	32.819	25.835	
36	6.15	32.817	25.833	







Sta 64 Depth 41 M Date 6/ 9/89
Lat 40 15.1N Lon 73 9.9W Time 1942

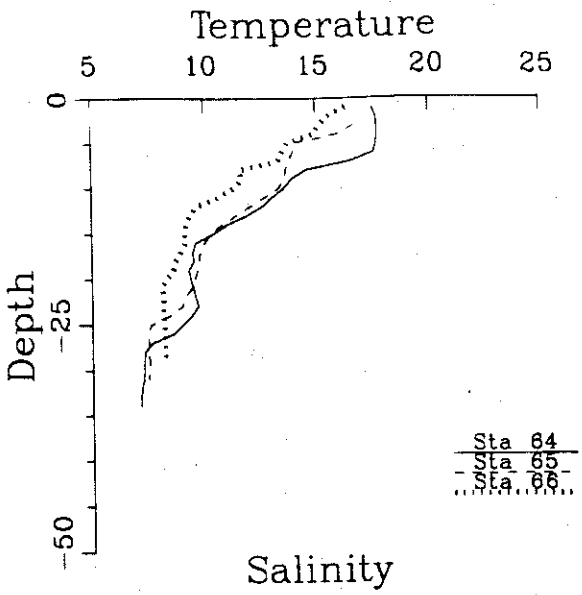
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.47	30.778	22.195	
3	17.69	30.624	22.026	
5	17.66	30.650	22.053	
7	16.52	30.802	22.432	
10	13.56	31.246	23.402	
12	12.59	31.482	23.773	
15	10.41	31.898	24.487	
17	9.46	31.885	24.633	
20	9.39	32.064	24.783	
22	9.59	32.257	24.902	
25	9.01	32.500	25.183	
27	7.65	32.640	25.495	
30	7.27	32.477	25.420	
32	7.17	32.466	25.425	
34	7.13	32.467	25.431	

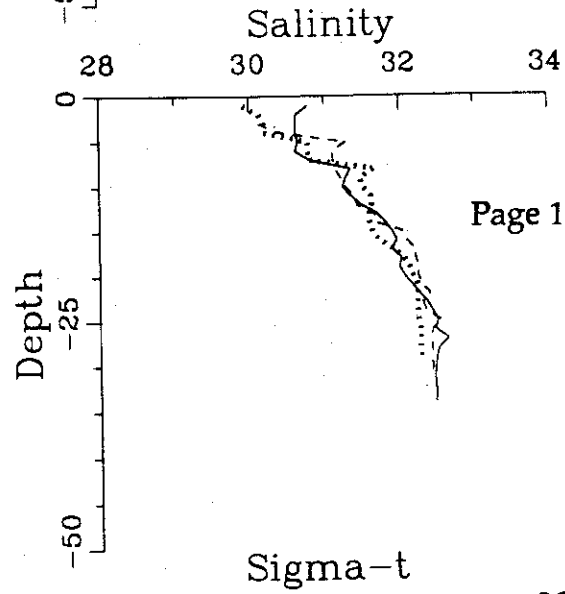
Sta 65 Depth 37 M Date 6/ 9/89
Lat 40 20.3N Lon 73 9.9W Time 2024

Depth	Temp	Salinity	Sigma-t	Oxygen
3	16.70	30.133	21.880	
4	16.02	30.426	22.256	
5	13.98	31.291	23.352	
7	13.76	31.119	23.264	
10	13.34	31.265	23.460	
12	12.06	31.428	23.831	
15	10.26	32.033	24.617	
17	9.80	32.202	24.825	
20	9.57	32.240	24.892	
22	9.11	32.400	25.089	
25	7.61	32.543	25.424	
27	7.47	32.425	25.351	
30	7.50	32.429	25.350	
31	7.48	32.418	25.344	

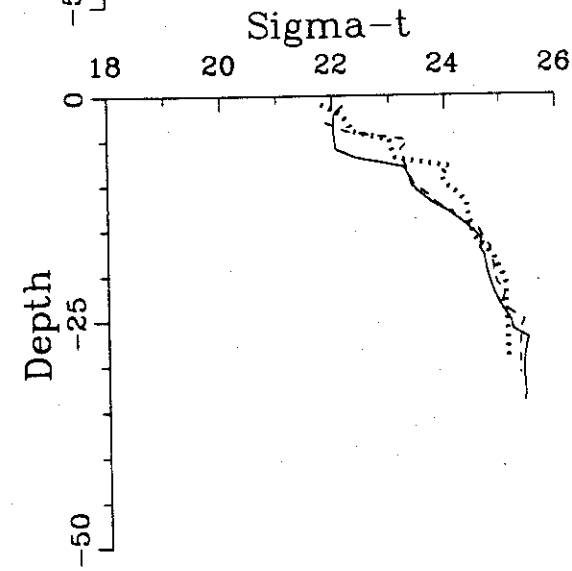
Sta 66 Depth 34 M Date 6/ 9/89
Lat 40 25.0N Lon 73 9.7W Time 2112

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.33	29.930	21.808	
3	15.13	30.204	22.279	
5	13.70	30.775	23.012	
7	13.28	30.795	23.110	
10	11.33	31.501	24.019	
12	9.62	31.617	24.398	
15	9.12	31.630	24.487	
17	8.93	31.909	24.734	
20	8.27	32.175	25.041	
22	8.15	32.230	25.102	
25	8.16	32.244	25.111	
27	8.21	32.271	25.125	
29	8.22	32.283	25.133	





Page 147



Sta 67 Depth 29 M Date 6/ 9/89
Lat 40 30.0N Lon 73 10.0W Time 2212

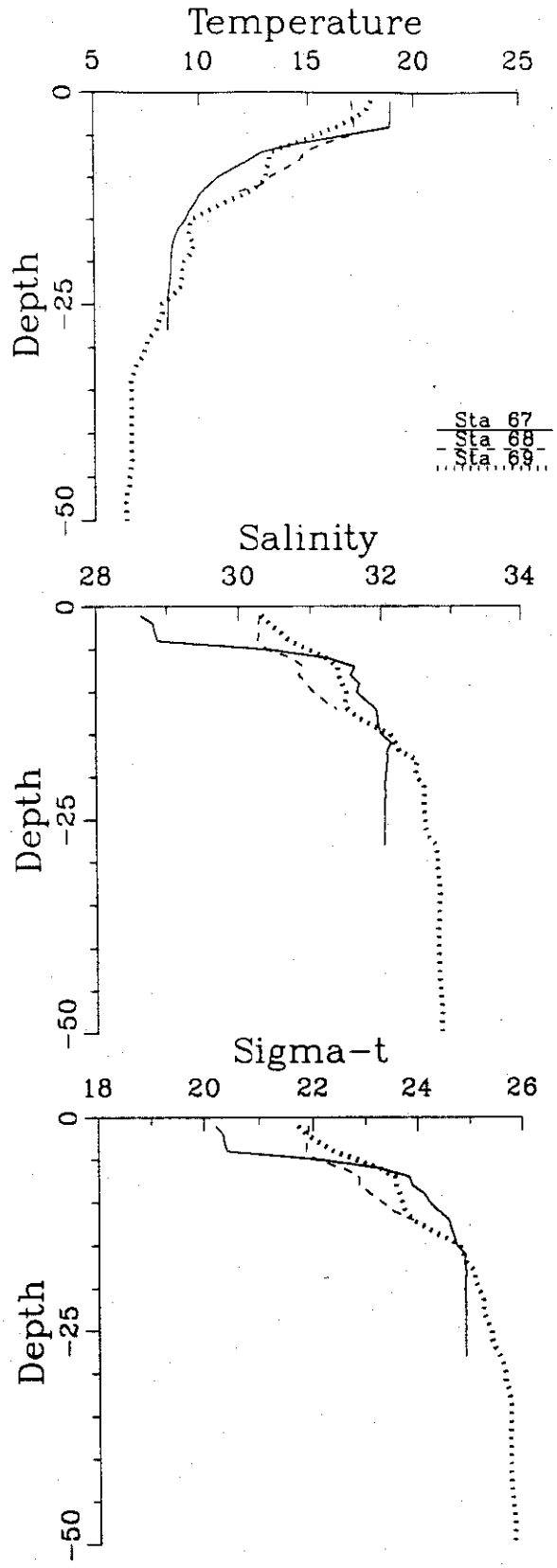
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.92	28.639	20.220	
3	18.92	28.839	20.372	
5	16.60	30.428	22.128	
7	12.86	31.633	23.838	
10	10.81	31.657	24.231	
12	10.00	31.933	24.583	
15	9.36	32.001	24.739	
17	8.82	32.085	24.888	
20	8.64	32.062	24.898	
22	8.59	32.061	24.904	
25	8.48	32.050	24.912	
27	8.47	32.047	24.911	
28	8.47	32.047	24.911	

Sta 68 Depth 23 M Date 6/ 9/89
Lat 40 35.0N Lon 73 10.0W Time 2312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.08	30.303	21.923	
2	17.10	30.284	21.904	
3	17.15	30.284	21.892	
4	17.19	30.277	21.878	
5	16.92	30.407	22.039	
6	15.68	30.746	22.576	
7	14.85	30.906	22.876	
8	14.59	30.841	22.881	
9	13.88	30.943	23.105	
10	13.16	31.046	23.327	
11	12.73	31.204	23.532	
12	11.39	31.372	23.909	

Sta 69 Depth 69 M Date 6/10/89
Lat 40 59.8N Lon 73 23.4W Time 1654

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.98	30.327	21.730	
3	17.15	30.590	22.126	
6	14.31	31.230	23.238	
7	13.30	31.390	23.565	
10	13.06	31.512	23.706	
15	9.64	32.133	24.797	
20	9.25	32.508	25.152	
25	8.18	32.633	25.413	
30	7.40	32.809	25.662	
35	6.75	32.824	25.762	
40	6.75	32.815	25.755	
50	6.52	32.863	25.823	
60	6.42	32.864	25.836	
65	6.36	32.853	25.835	



Sta 70 Depth 76 M Date 6/10/89
Lat 39 55.3N Lon 73 11.2W Time 2000

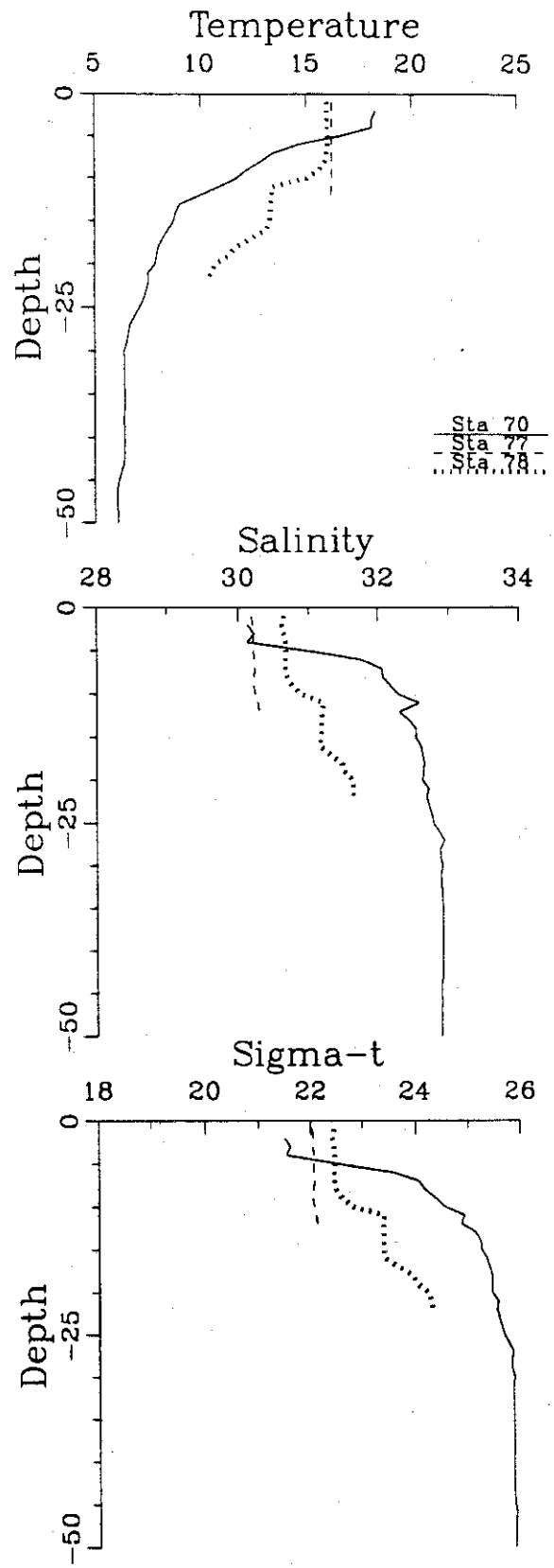
Depth	Temp	Salinity	Sigma-t	Oxygen
2	18.33	30.143	21.506	
3	18.16	30.228	21.612	
5	16.61	30.962	22.534	
7	13.42	32.064	24.060	
10	11.71	32.286	24.559	
15	8.76	32.533	25.247	
20	7.91	32.633	25.452	
25	7.13	32.782	25.678	
30	6.39	32.914	25.879	
35	6.46	32.917	25.873	
40	6.41	32.913	25.876	
50	6.09	32.894	25.902	
60	5.88	32.890	25.924	
70	5.57	32.900	25.969	
71	5.53	32.906	25.979	

Sta 77 Depth 17 M Date 6/15/89
Lat 40 27.0N Lon 73 53.6W Time 1218

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.21	30.195	22.037	
2	16.21	30.206	22.046	
3	16.21	30.215	22.053	
4	16.21	30.221	22.057	
5	16.21	30.221	22.057	
6	16.21	30.229	22.063	
7	16.21	30.232	22.066	
8	16.21	30.225	22.060	
9	16.21	30.216	22.053	
10	16.20	30.243	22.076	
11	16.18	30.275	22.105	
12	16.16	30.296	22.126	

Sta 78 Depth 27 M Date 6/15/89
Lat 40 26.7N Lon 73 46.1W Time 1330

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.99	30.655	22.438	
3	15.99	30.648	22.433	
5	16.00	30.673	22.450	
7	15.97	30.669	22.453	
10	15.03	30.898	22.832	
12	13.35	31.189	23.400	
15	13.25	31.178	23.411	
17	12.35	31.305	23.682	
20	10.69	31.640	24.239	
22	10.32	31.654	24.312	



Sta 79 Depth 17 M Date 6/15/89
Lat 40 23.5N Lon 73 52.1W Time 1430

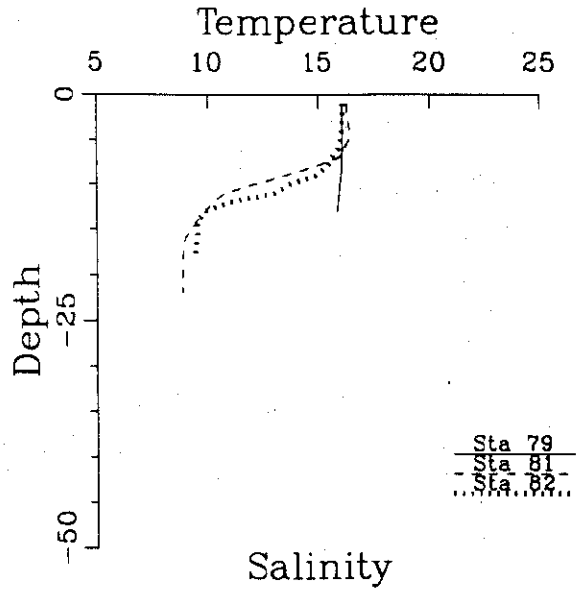
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.11	30.492	22.287	
2	16.11	30.500	22.293	
3	16.11	30.514	22.304	
4	16.11	30.521	22.309	
5	16.11	30.523	22.310	
6	16.11	30.524	22.311	
7	16.08	30.542	22.332	
8	16.08	30.539	22.329	
9	16.05	30.558	22.351	
10	15.98	30.603	22.400	
11	15.96	30.614	22.413	
12	15.91	30.660	22.460	
13	15.87	30.714	22.510	

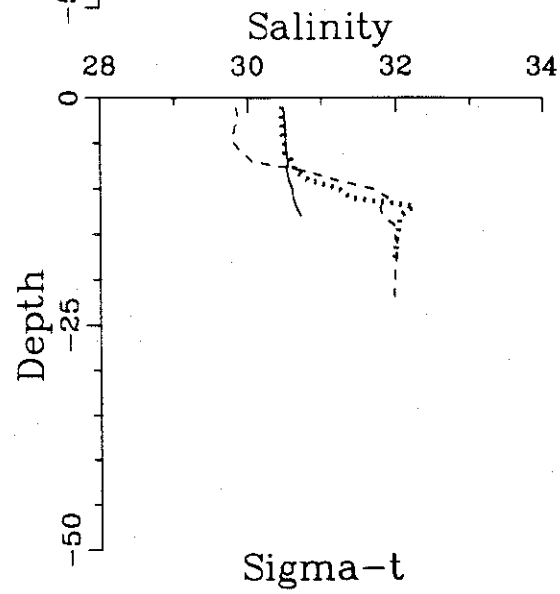
Sta 81 Depth 27 M Date 6/15/89
Lat 40 18.8N Lon 73 45.6W Time 1630

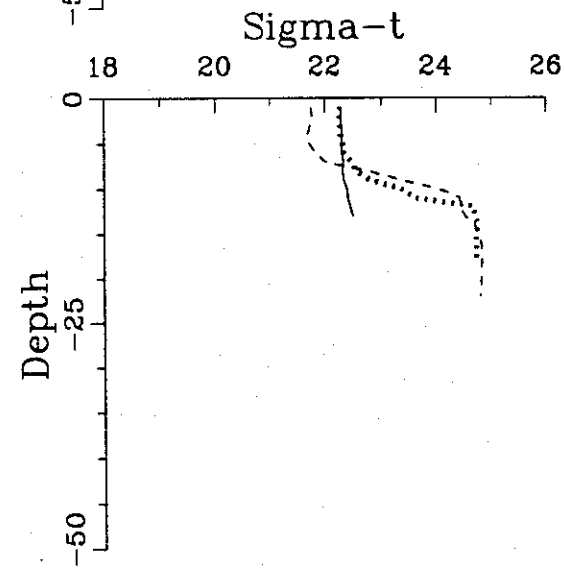
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.31	29.842	21.745	
3	16.36	29.833	21.727	
5	16.38	29.816	21.710	
7	15.92	30.067	22.003	
10	12.05	31.684	24.030	
12	10.22	31.785	24.431	
15	9.27	31.969	24.728	
17	8.90	32.004	24.813	
20	8.86	31.985	24.804	
22	8.86	31.972	24.794	

Sta 82 Depth 29 M Date 6/15/89
Lat 40 20.0N Lon 73 40.0W Time 1800

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.09	30.466	22.271	
2	16.10	30.464	22.268	
3	16.08	30.472	22.278	
4	16.07	30.471	22.280	
5	15.99	30.505	22.323	
6	15.91	30.504	22.340	
7	15.62	30.615	22.489	
8	15.40	30.634	22.551	
9	14.85	30.813	22.805	
10	13.71	31.235	23.364	
11	13.01	31.381	23.614	
12	10.91	32.240	24.666	
13	9.90	32.057	24.695	
14	9.53	32.041	24.743	
15	9.54	32.011	24.718	
16	9.50	31.996	24.713	
17	9.44	31.991	24.718	
18	9.43	31.973	24.706	







Sta 83 Depth 24 M Date 6/15/89
Lat 40 20.1N Lon 73 43.2W Time 1912

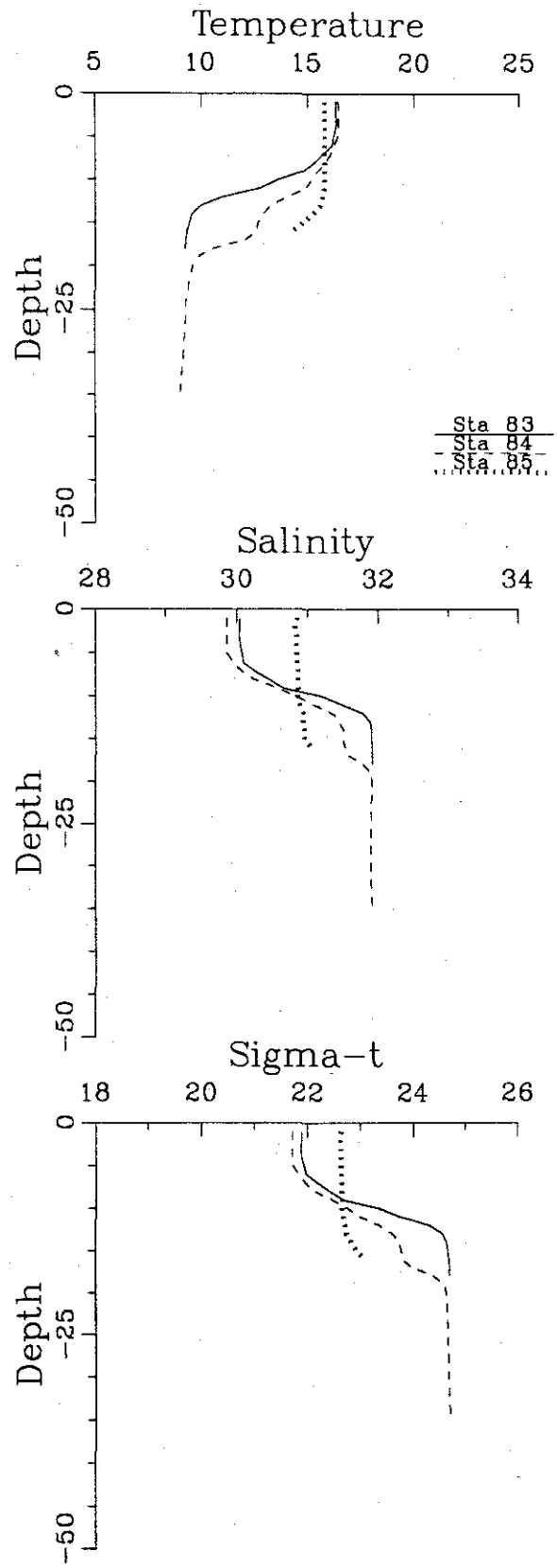
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.34	30.046	21.895	
2	16.34	30.050	21.898	
3	16.34	30.039	21.889	
4	16.34	30.051	21.898	
5	16.22	30.076	21.944	
6	16.15	30.097	21.976	
7	15.75	30.262	22.190	
8	15.37	30.464	22.427	
9	14.87	30.662	22.685	
10	13.64	31.195	23.347	
11	12.80	31.483	23.734	
12	10.98	31.786	24.302	
13	9.98	31.889	24.552	
14	9.55	31.910	24.638	
15	9.43	31.910	24.657	
16	9.32	31.914	24.677	
17	9.25	31.914	24.688	
18	9.22	31.911	24.691	

Sta 84 Depth 40 M Date 6/15/89
Lat 40 19.8N Lon 73 47.6W Time 1948

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.45	29.860	21.728	
3	16.45	29.862	21.729	
5	16.42	29.866	21.739	
7	16.07	30.055	21.961	
10	15.17	30.840	22.758	
12	14.14	31.348	23.364	
15	12.66	31.503	23.776	
17	12.02	31.588	23.962	
20	9.57	31.920	24.642	
22	9.38	31.920	24.673	
25	9.29	31.907	24.677	
27	9.25	31.911	24.686	
30	9.19	31.906	24.692	
32	9.12	31.909	24.705	
35	9.01	31.923	24.733	

Sta 85 Depth 22 M Date 6/15/89
Lat 40 19.7N Lon 73 52.5W Time 2036

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.80	30.855	22.633	
2	15.80	30.830	22.614	
3	15.80	30.855	22.633	
4	15.80	30.851	22.630	
5	15.79	30.857	22.637	
6	15.79	30.859	22.638	
7	15.78	30.871	22.650	
8	15.78	30.869	22.648	
9	15.78	30.871	22.650	
10	15.78	30.864	22.644	
11	15.77	30.897	22.672	
12	15.69	30.946	22.727	
13	15.58	30.940	22.746	
14	15.21	30.956	22.838	
15	14.77	30.956	22.932	
16	14.32	31.049	23.097	



Sta 86 Depth 21 M Date 6/15/89
Lat 40 19.7N Lon 73 53.6W Time 2048

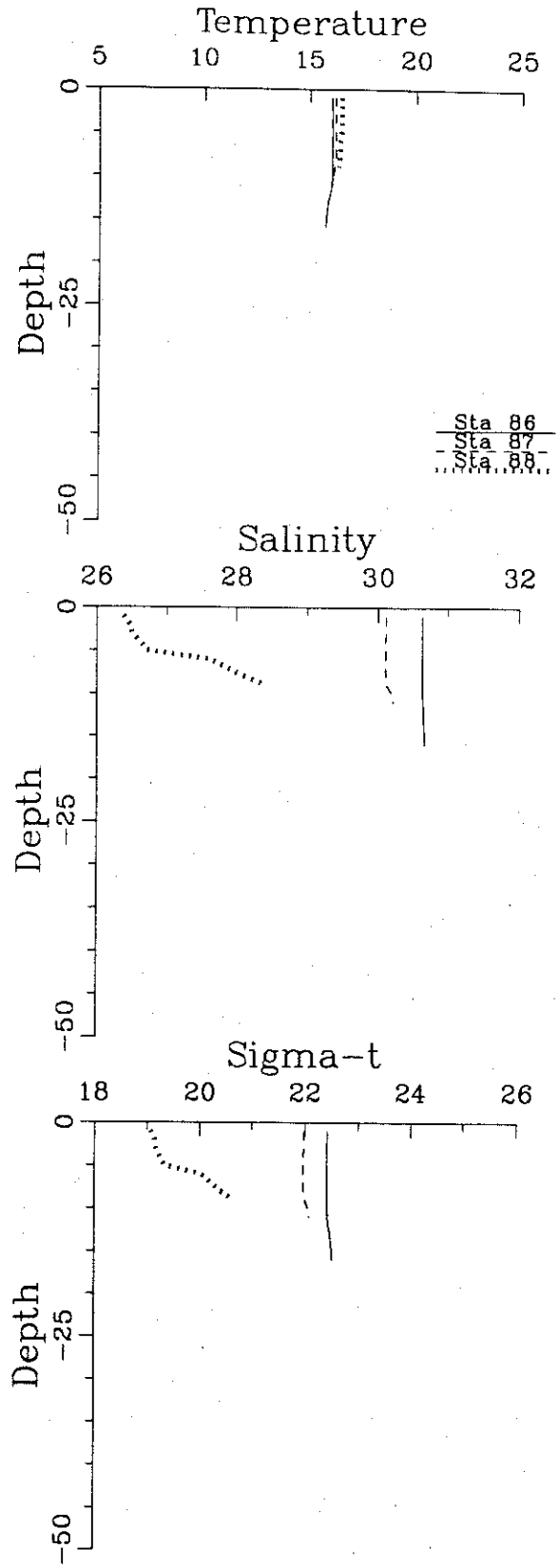
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.02	30.632	22.414	
2	16.02	30.630	22.412	
3	16.03	30.628	22.409	
4	16.02	30.630	22.412	
5	16.03	30.628	22.409	
6	16.02	30.628	22.411	
7	16.02	30.628	22.411	
8	16.02	30.628	22.411	
9	16.01	30.630	22.414	
10	16.01	30.633	22.417	
11	15.99	30.637	22.424	
12	15.93	30.644	22.443	
13	15.82	30.645	22.468	
14	15.75	30.654	22.490	
15	15.71	30.662	22.505	
16	15.70	30.662	22.507	

Sta 87 Depth 16 M Date 6/15/89
Lat 40 19.7N Lon 73 55.7W Time 2112

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.19	30.114	21.980	
2	16.19	30.111	21.978	
3	16.19	30.109	21.976	
4	16.19	30.105	21.973	
5	16.19	30.104	21.972	
6	16.19	30.104	21.972	
7	16.19	30.103	21.972	
8	16.17	30.107	21.979	
9	16.14	30.126	22.000	
10	16.08	30.189	22.062	
11	16.05	30.214	22.087	

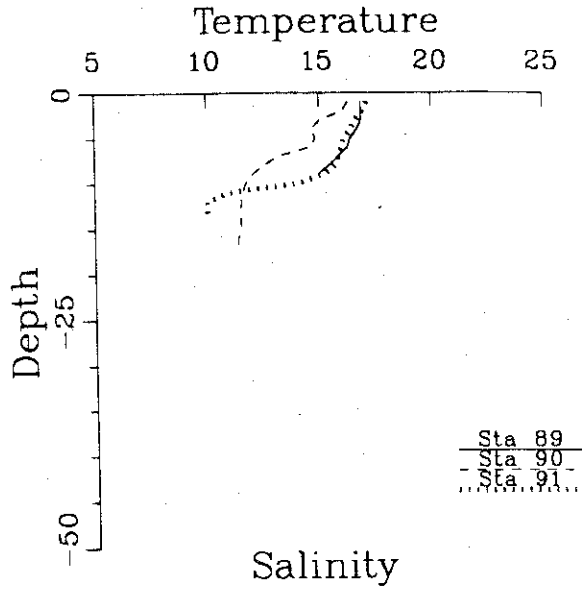
Sta 88 Depth 14 M Date 6/15/89
Lat 40 19.6N Lon 73 57.0W Time 2130

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.48	26.380	19.065	
2	16.47	26.479	19.142	
3	16.47	26.504	19.161	
5	16.45	26.716	19.327	
6	16.40	27.605	20.017	
8	16.37	28.116	20.413	
9	16.31	28.420	20.659	



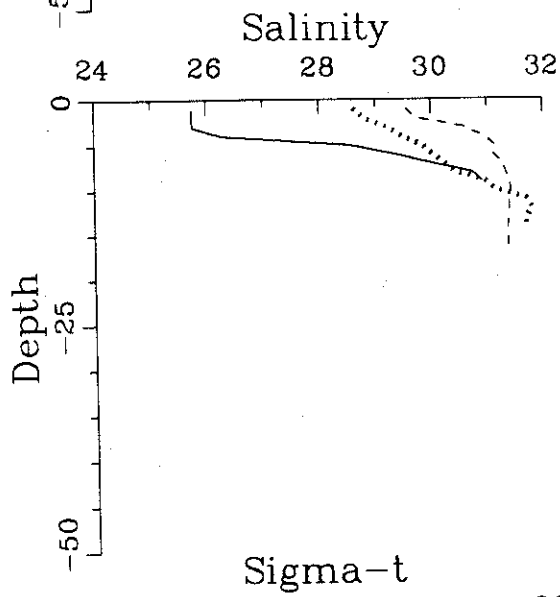
Sta 89 Depth 14 M Date 6/15/89
Lat 40 10.0N Lon 73 58.6W Time 2230

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.86	25.747	18.499	
2	16.86	25.748	18.499	
3	16.86	25.761	18.509	
4	16.70	26.295	18.952	
5	16.37	28.552	20.746	
6	16.26	29.385	21.407	
7	15.83	30.048	22.009	
8	15.45	30.739	22.620	
9	14.96	30.909	22.856	



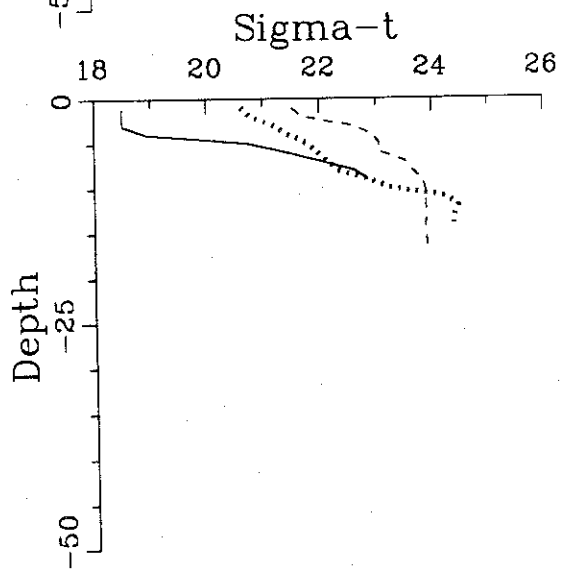
Sta 90 Depth 20 M Date 6/15/89
Lat 40 10.0N Lon 73 56.3W Time 2306

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.31	29.553	21.524	
2	16.08	29.734	21.714	
3	15.06	30.578	22.580	
4	14.63	30.934	22.944	
5	14.84	31.136	23.055	
6	14.66	31.105	23.069	
7	13.19	31.301	23.518	
8	12.57	31.332	23.661	
9	12.01	31.386	23.807	
10	11.73	31.425	23.889	
11	11.57	31.397	23.896	
12	11.52	31.391	23.900	
13	11.50	31.390	23.903	
14	11.51	31.371	23.887	
15	11.48	31.368	23.890	
16	11.40	31.369	23.905	
17	11.38	31.365	23.905	



Sta 91 Depth 18 M Date 6/15/89
Lat 40 10.0N Lon 73 53.8W Time 2330

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.12	28.608	20.621	
2	16.93	28.786	20.800	
3	16.60	29.200	21.190	
4	16.40	29.469	21.440	
5	16.11	29.844	21.791	
8	15.73	30.428	22.321	
9	15.21	30.969	22.848	
10	14.07	31.155	23.229	
11	10.94	31.695	24.238	
12	10.02	31.795	24.472	
13	10.03	31.707	24.402	
14	10.03	31.685	24.385	



Sta 92 Depth 28 M Date 6/16/89
Lat 40 10.0N Lon 73 49.6W Time 6

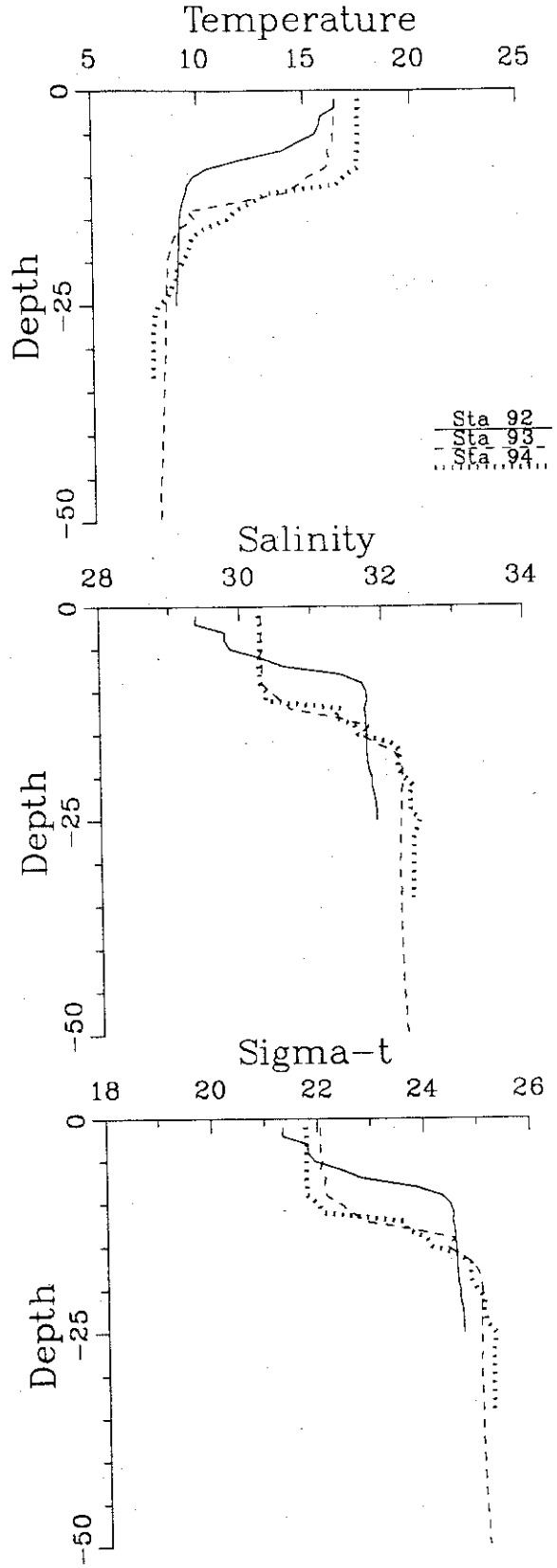
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.50	29.388	21.356	
3	15.81	29.798	21.822	
5	15.54	29.875	21.939	
7	14.01	30.625	22.834	
10	9.82	31.786	24.498	
12	9.42	31.756	24.538	
15	9.16	31.786	24.603	
17	9.13	31.784	24.606	
20	9.06	31.851	24.669	
22	9.02	31.880	24.698	
25	8.96	31.919	24.737	

Sta 93 Depth 66 M Date 6/16/89
Lat 40 10.5N Lon 73 42.5W Time 54

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.47	30.305	22.063	
3	16.45	30.301	22.065	
5	16.39	30.319	22.092	
7	16.11	30.318	22.154	
10	15.23	30.419	22.422	
15	9.86	31.696	24.421	
20	8.54	32.279	25.082	
25	8.48	32.254	25.072	
30	8.47	32.237	25.060	
35	8.36	32.244	25.082	
40	8.28	32.251	25.099	
50	8.11	32.334	25.189	
60	7.13	32.709	25.621	
61	7.12	32.713	25.625	

Sta 94 Depth 38 M Date 6/16/89
Lat 40 10.5N Lon 73 36.6W Time 148

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.57	30.272	21.786	
3	17.56	30.289	21.801	
5	17.56	30.281	21.795	
7	17.55	30.270	21.789	
10	16.92	30.379	22.018	
12	13.25	31.427	23.603	
15	11.37	31.669	24.142	
17	9.75	32.258	24.876	
20	9.27	32.296	24.983	
22	8.94	32.369	25.092	
25	8.14	32.518	25.329	
27	7.92	32.429	25.291	
30	7.87	32.421	25.292	
32	7.87	32.416	25.288	
34	7.87	32.407	25.281	



Sta 95 Depth 39 M Date 6/16/89
Lat 40 10.0N Lon 73 30.0W Time 230

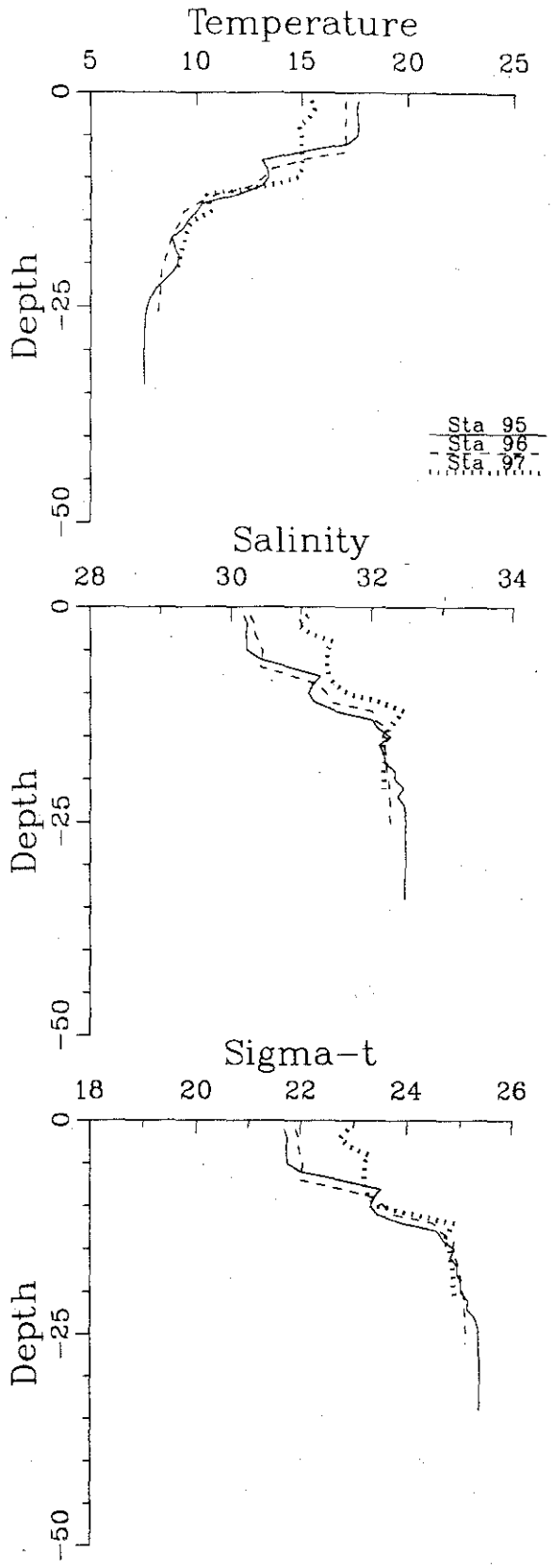
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.69	30.185	21.691	
3	17.62	30.213	21.729	
5	17.61	30.221	21.737	
7	14.98	30.834	22.794	
10	13.41	31.107	23.325	
12	11.90	31.496	23.913	
15	9.59	32.270	24.912	
17	8.79	32.168	24.958	
20	9.11	32.327	25.032	
22	8.51	32.362	25.152	
25	7.69	32.483	25.366	
27	7.58	32.473	25.374	
30	7.53	32.473	25.381	
32	7.53	32.470	25.378	
34	7.54	32.465	25.373	

Sta 96 Depth 31 M Date 6/16/89
Lat 40 15.0N Lon 73 30.0W Time 312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.08	30.279	21.905	
3	17.06	30.342	21.957	
5	17.04	30.439	22.036	
7	17.03	30.424	22.027	
10	13.17	31.366	23.572	
12	10.90	32.004	24.485	
15	9.24	32.146	24.871	
17	8.81	32.196	24.977	
20	8.45	32.240	25.065	
22	8.32	32.249	25.092	
25	8.22	32.271	25.124	
26	8.21	32.278	25.131	

Sta 97 Depth 26 M Date 6/16/89
Lat 40 20.0N Lon 73 30.0W Time 406

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.46	31.099	22.894	
3	15.31	31.118	22.941	
5	14.95	31.365	23.208	
7	14.98	31.379	23.212	
10	14.79	31.667	23.473	
12	10.46	32.445	24.903	
15	9.85	32.211	24.824	
17	9.44	32.175	24.862	
20	9.15	32.171	24.905	
21	9.06	32.172	24.919	



Sta 98 Depth 23 M Date 6/16/89
Lat 40 25.2N Lon 73 30.2W Time 454

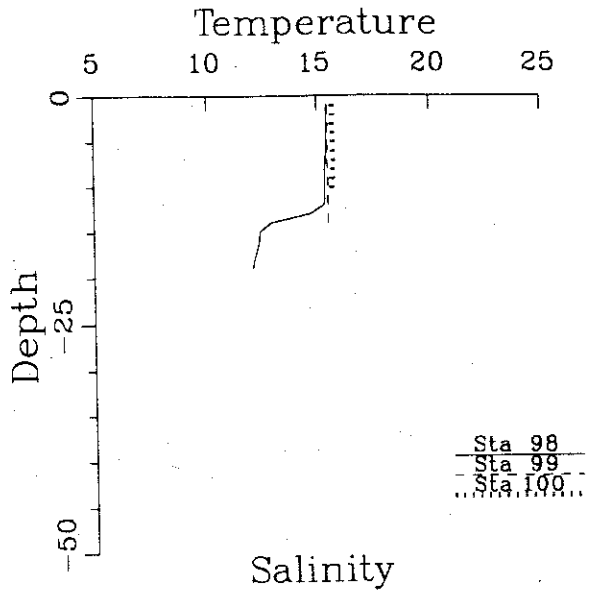
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.44	31.243	23.009	
2	15.44	31.209	22.983	
3	15.44	31.185	22.964	
4	15.44	31.167	22.951	
5	15.44	31.159	22.944	
6	15.43	31.183	22.965	
7	15.38	31.265	23.039	
8	15.36	31.302	23.071	
9	15.36	31.315	23.081	
10	15.35	31.324	23.090	
11	15.34	31.327	23.095	
12	15.32	31.323	23.096	
13	14.68	31.224	23.156	
14	12.91	31.327	23.592	
15	12.39	31.482	23.811	
16	12.37	31.480	23.813	
17	12.26	31.482	23.835	
18	12.13	31.494	23.869	
19	12.04	31.511	23.898	

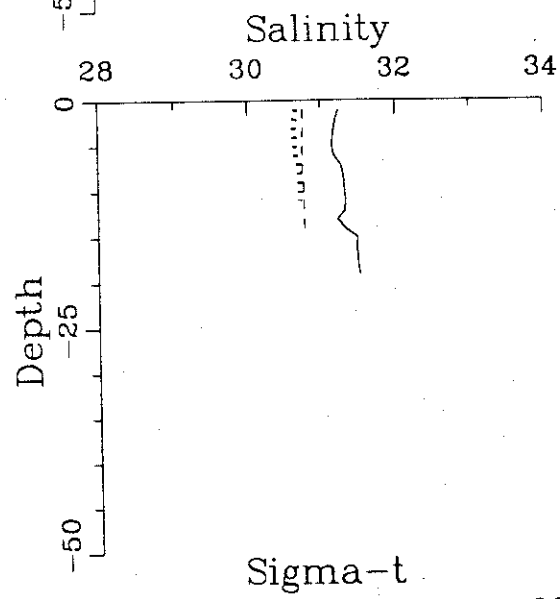
Sta 99 Depth 19 M Date 6/16/89
Lat 40 30.0N Lon 73 30.0W Time 530

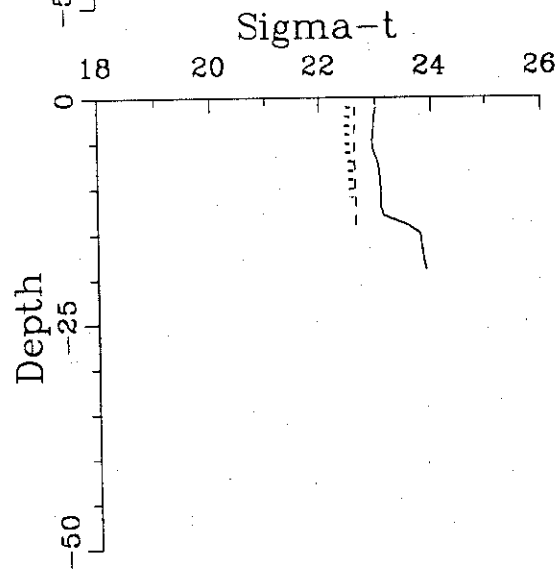
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.48	30.771	22.638	
2	15.48	30.767	22.635	
3	15.49	30.766	22.632	
4	15.48	30.756	22.627	
5	15.48	30.757	22.628	
6	15.49	30.760	22.628	
7	15.48	30.756	22.627	
8	15.49	30.762	22.629	
9	15.50	30.774	22.636	
10	15.50	30.778	22.639	
11	15.50	30.779	22.640	
12	15.50	30.780	22.641	
13	15.50	30.780	22.641	
14	15.49	30.785	22.647	

Sta 100 Depth 15 M Date 6/16/89
Lat 40 32.5N Lon 73 30.1W Time 554

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.70	30.675	22.517	
2	15.69	30.658	22.506	
3	15.70	30.647	22.496	
4	15.71	30.656	22.500	
5	15.72	30.660	22.501	
6	15.72	30.671	22.510	
7	15.74	30.713	22.537	
8	15.71	30.723	22.552	
9	15.69	30.724	22.557	
10	15.67	30.726	22.563	
11	15.64	30.723	22.567	







Sta 101 Depth 10 M Date 6/16/89
Lat 40 34.1N Lon 73 30.0W Time 612

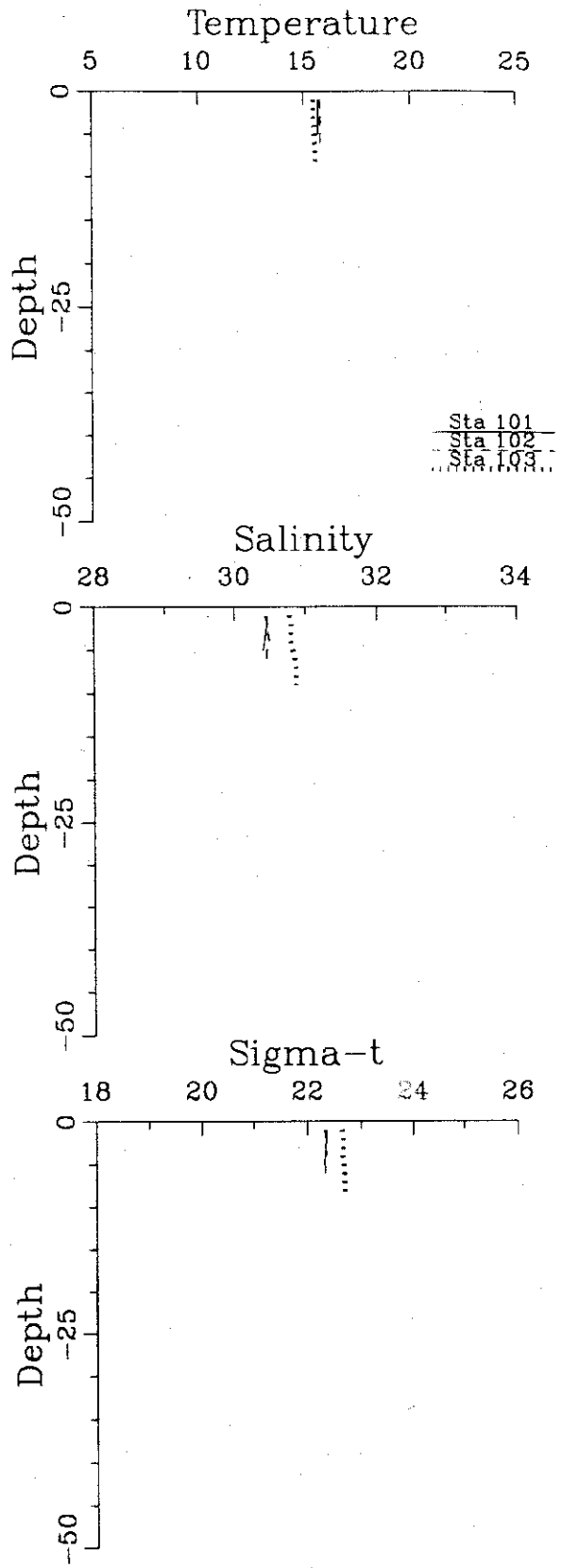
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.70	30.468	22.359	
2	15.70	30.468	22.359	
3	15.69	30.451	22.348	
4	15.69	30.431	22.332	
5	15.69	30.417	22.322	

Sta 102 Depth 10 M Date 6/16/89
Lat 40 33.3N Lon 73 40.1W Time 706

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.79	30.441	22.318	
2	15.80	30.479	22.345	
3	15.80	30.487	22.351	
4	15.81	30.506	22.364	
5	15.80	30.469	22.337	
6	15.80	30.470	22.338	

Sta 103 Depth 15 M Date 6/16/89
Lat 40 31.8N Lon 73 40.0W Time 724

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.48	30.779	22.645	
2	15.48	30.803	22.663	
3	15.48	30.801	22.661	
4	15.49	30.799	22.658	
5	15.51	30.829	22.676	
6	15.54	30.858	22.692	
7	15.56	30.867	22.695	
8	15.57	30.873	22.697	
9	15.57	30.875	22.699	



Sta 104 Depth 19 M Date 6/16/89
Lat 40 28.9N Lon 73 40.1W Time 748

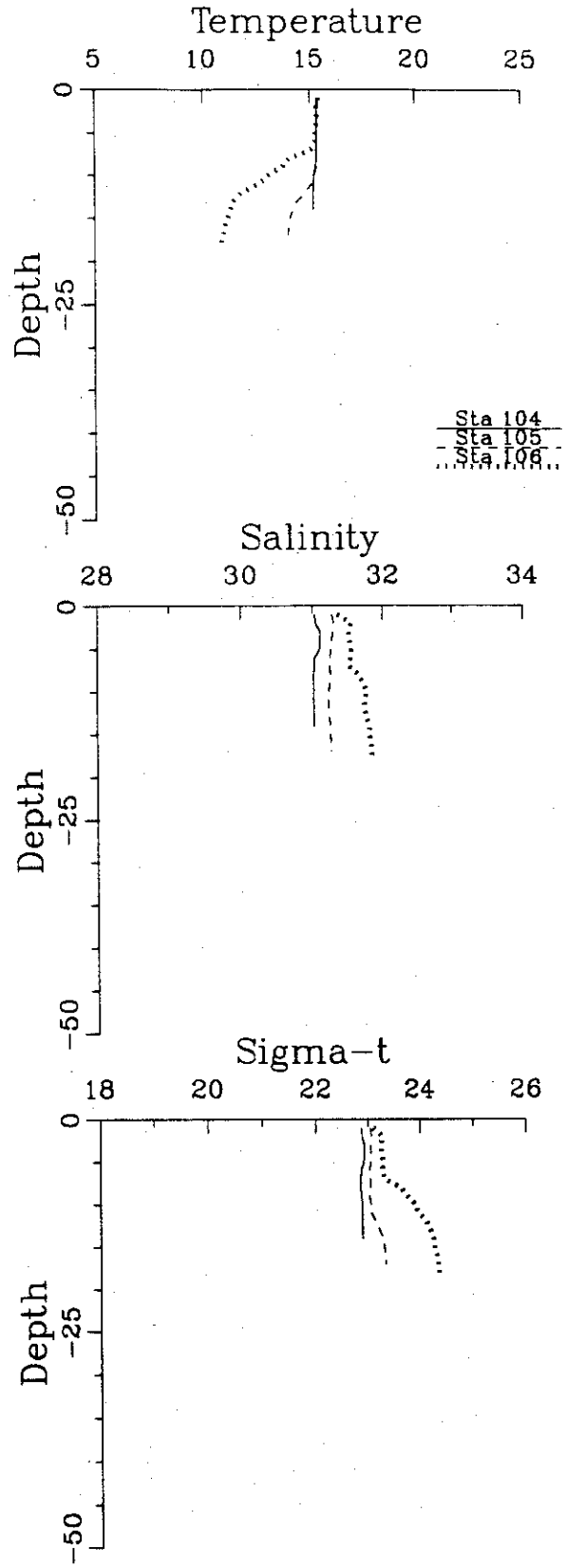
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.32	31.035	22.875	
2	15.31	31.048	22.887	
3	15.31	31.115	22.939	
4	15.31	31.105	22.931	
5	15.32	31.101	22.926	
6	15.32	31.029	22.871	
7	15.32	31.024	22.867	
8	15.33	31.018	22.860	
9	15.27	31.016	22.871	
10	15.18	31.022	22.895	
11	15.18	31.019	22.893	
12	15.16	31.017	22.896	
13	15.14	31.017	22.900	
14	15.14	31.020	22.902	

Sta 105 Depth 22 M Date 6/16/89
Lat 40 26.4N Lon 73 40.1W Time 812

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.39	31.274	23.043	
2	15.38	31.301	23.066	
3	15.37	31.292	23.062	
4	15.32	31.272	23.057	
5	15.31	31.257	23.048	
6	15.32	31.250	23.040	
7	15.29	31.247	23.044	
8	15.28	31.250	23.049	
9	15.33	31.242	23.032	
10	15.19	31.234	23.056	
11	15.08	31.224	23.072	
12	14.73	31.229	23.150	
13	14.41	31.239	23.224	
14	14.18	31.254	23.283	
15	14.07	31.256	23.307	
16	14.00	31.260	23.324	
17	13.97	31.261	23.331	

Sta 106 Depth 24 M Date 6/16/89
Lat 40 23.6N Lon 73 40.0W Time 848

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.41	31.355	23.101	
2	15.30	31.550	23.275	
3	15.33	31.513	23.240	
4	15.30	31.532	23.261	
5	15.27	31.552	23.283	
6	15.26	31.546	23.280	
7	15.06	31.530	23.311	
8	14.03	31.659	23.625	
9	13.69	31.724	23.744	
10	13.03	31.774	23.914	
11	12.61	31.737	23.966	
12	11.82	31.751	24.125	
13	11.44	31.772	24.210	
14	11.31	31.810	24.262	
15	11.18	31.809	24.285	
16	11.05	31.837	24.329	
17	10.97	31.850	24.353	
18	10.87	31.847	24.368	



Sta 107 Depth 24 M Date 6/16/89
Lat 40 20.9N Lon 73 39.9W Time 912

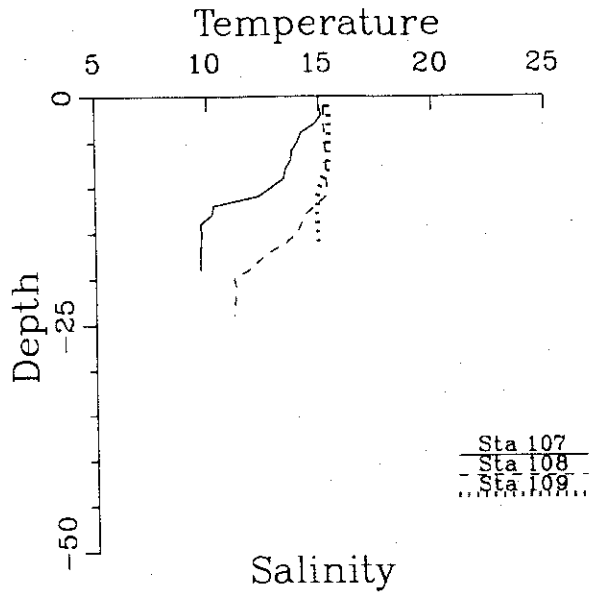
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.03	31.181	23.049	
2	15.12	31.025	22.910	
3	14.82	31.186	23.098	
4	14.21	31.384	23.377	
5	14.02	31.408	23.434	
6	13.77	31.431	23.503	
7	13.75	31.430	23.506	
8	13.47	31.442	23.571	
9	13.43	31.380	23.531	
10	12.89	31.511	23.738	
11	12.27	31.582	23.911	
12	10.27	32.010	24.598	
13	10.22	32.042	24.631	
14	9.70	32.096	24.758	
15	9.75	32.086	24.743	
16	9.71	32.079	24.744	
17	9.70	32.070	24.738	
18	9.70	32.068	24.737	
19	9.70	32.062	24.732	

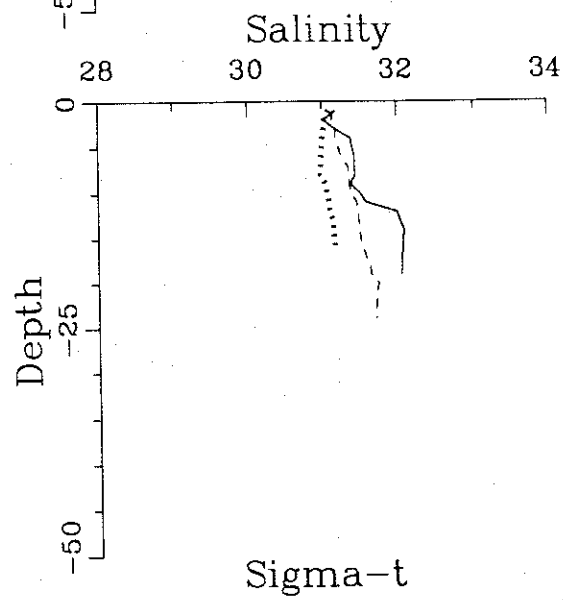
Sta 108 Depth 29 M Date 6/16/89
Lat 40 25.0N Lon 73 45.6W Time 1000

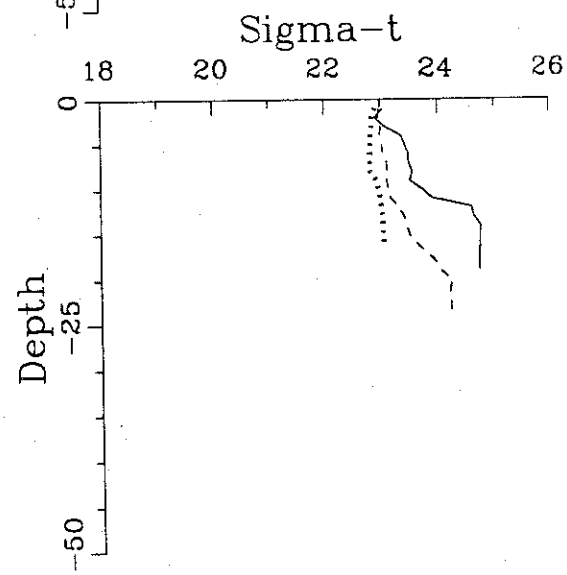
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.24	31.145	22.977	
3	15.22	31.181	23.009	
5	15.26	31.222	23.032	
7	15.32	31.343	23.111	
10	15.35	31.387	23.139	
12	14.82	31.484	23.327	
15	14.01	31.512	23.516	
17	12.80	31.575	23.805	
20	11.15	31.747	24.242	
22	11.20	31.721	24.213	
24	11.13	31.714	24.220	

Sta 109 Depth 21 M Date 6/16/89
Lat 40 34.9N Lon 73 9.8W Time 1612

Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.40	31.096	22.905	
2	15.47	31.038	22.845	
3	15.46	31.030	22.841	
4	15.46	31.011	22.827	
5	15.43	31.000	22.825	
6	15.43	30.991	22.818	
7	15.43	30.983	22.812	
8	15.39	30.980	22.818	
9	15.14	31.053	22.928	
10	15.01	31.068	22.967	
11	14.94	31.096	23.003	
12	14.92	31.101	23.011	
13	14.90	31.142	23.047	
14	14.92	31.151	23.050	
15	14.93	31.161	23.055	
16	14.94	31.170	23.060	







Sta 110 Depth 27 M Date 6/16/89
Lat 40 30.0N Lon 73 10.0W Time 1654

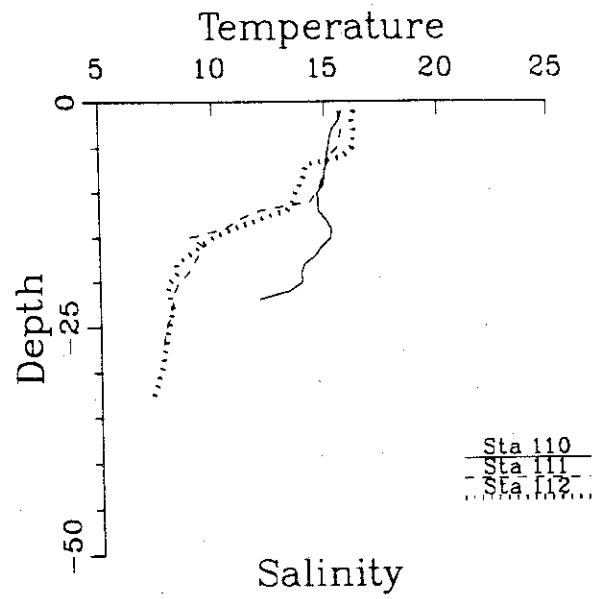
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.75	31.121	22.848	
3	15.35	31.098	22.917	
5	15.19	31.048	22.913	
7	15.03	31.022	22.927	
10	14.67	31.143	23.096	
12	14.70	31.413	23.297	
15	15.24	31.791	23.472	
17	14.54	31.802	23.630	
20	13.93	32.144	24.019	
22	11.99	32.487	24.663	

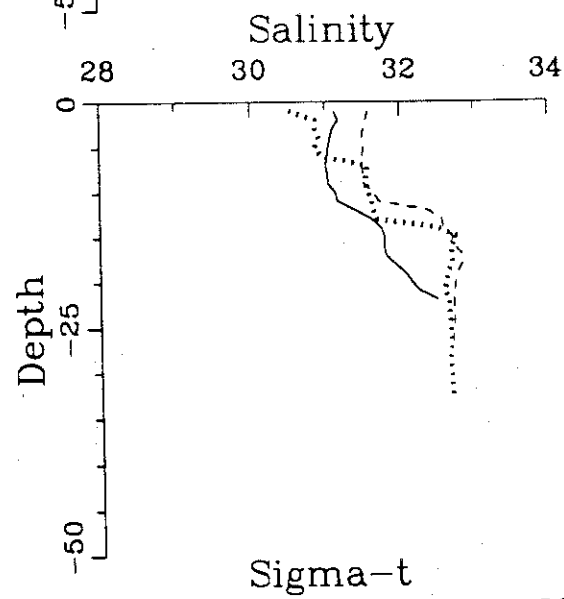
Sta 111 Depth 31 M Date 6/16/89
Lat 40 24.9N Lon 73 9.9W Time 1736

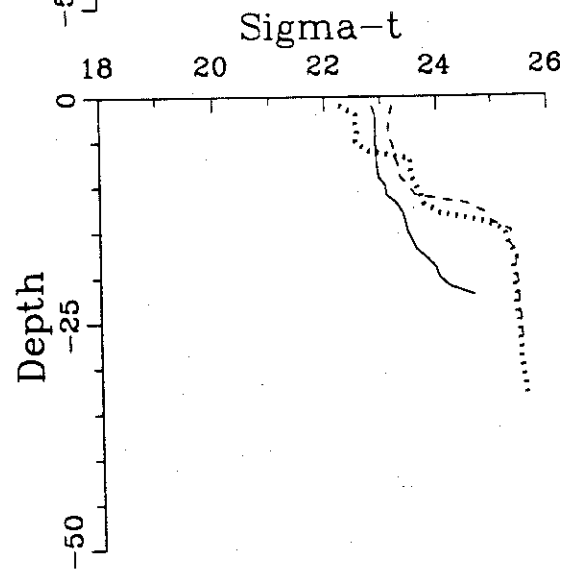
Depth	Temp	Salinity	Sigma-t	Oxygen
1	15.62	31.571	23.221	
3	15.76	31.514	23.147	
5	15.54	31.512	23.193	
7	15.05	31.491	23.283	
10	14.59	31.647	23.500	
12	12.09	32.369	24.553	
15	8.97	32.699	25.345	
17	9.34	32.827	25.386	
20	8.52	32.733	25.440	
22	8.22	32.707	25.465	
25	7.91	32.702	25.506	
27	7.81	32.696	25.516	

Sta 112 Depth 36 M Date 6/16/89
Lat 40 20.0N Lon 73 9.8W Time 1812

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.30	30.520	22.266	
3	16.27	30.877	22.546	
5	16.21	30.864	22.549	
7	14.13	31.573	23.539	
10	13.68	31.574	23.631	
12	13.27	31.644	23.766	
15	9.99	32.758	25.226	
17	8.92	32.686	25.342	
20	8.08	32.612	25.411	
22	8.12	32.644	25.430	
25	8.03	32.653	25.450	
27	7.91	32.651	25.466	
30	7.62	32.661	25.515	
32	7.38	32.675	25.560	
33	7.25	32.668	25.572	







Sta 113 Depth 39 M Date 6/16/89
Lat 40 14.9N Lon 73 9.7W Time 1854

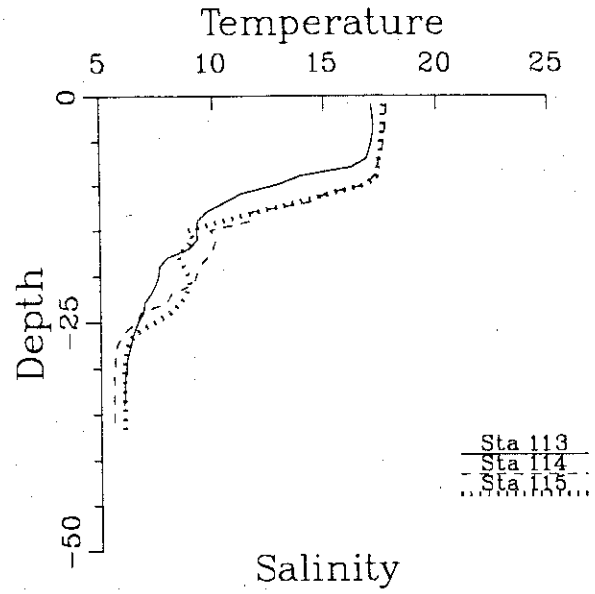
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.14	30.787	22.279	
3	17.22	30.768	22.246	
5	17.12	30.753	22.257	
7	16.89	30.744	22.303	
10	12.91	31.674	23.860	
13	9.66	32.105	24.772	
15	9.22	32.584	25.216	
17	8.93	32.586	25.263	
20	7.57	32.608	25.481	
22	7.21	32.612	25.534	
25	6.66	32.571	25.575	
27	6.36	32.586	25.625	
30	6.12	32.617	25.680	
32	6.04	32.629	25.699	
34	6.02	32.633	25.705	

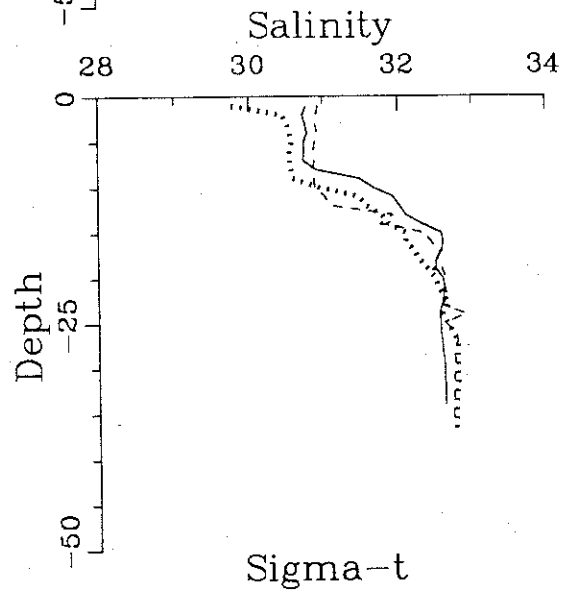
Sta 114 Depth 39 M Date 6/16/89
Lat 40 9.0N Lon 73 9.9W Time 1942

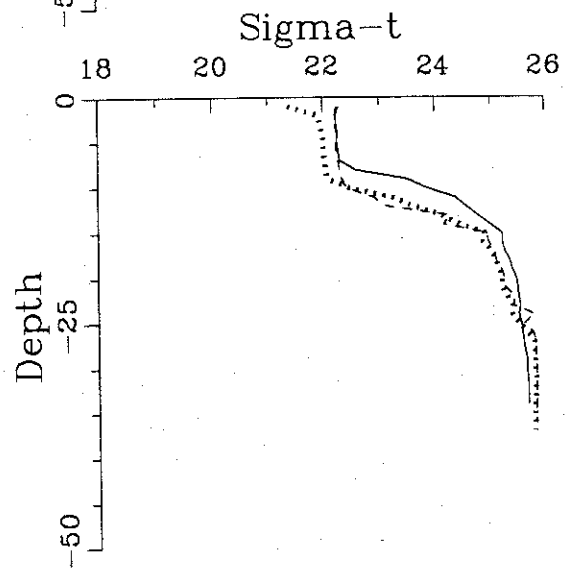
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.80	30.945	22.244	
3	17.77	30.905	22.221	
5	17.65	30.897	22.243	
7	17.46	30.891	22.283	
10	16.91	30.902	22.420	
12	14.32	31.111	23.144	
15	9.84	32.355	24.937	
17	9.99	32.561	25.073	
20	9.22	32.646	25.264	
22	8.10	32.661	25.446	
25	6.61	32.629	25.627	
27	5.83	32.800	25.859	
30	5.63	32.758	25.850	
32	5.58	32.749	25.849	
35	5.58	32.743	25.844	
36	5.57	32.740	25.843	

Sta 115 Depth 42 M Date 6/16/89
Lat 40 4.0N Lon 73 17.8W Time 2054

Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.66	29.773	21.384	
3	17.63	30.521	21.961	
5	17.54	30.581	22.028	
7	17.45	30.562	22.035	
10	16.85	30.954	22.473	
12	13.78	31.576	23.612	
15	8.85	32.102	24.897	
17	8.67	32.217	25.014	
20	8.86	32.500	25.206	
22	8.77	32.612	25.308	
25	7.42	32.651	25.535	
27	6.23	32.801	25.811	
30	6.07	32.798	25.828	
32	6.03	32.796	25.832	
35	6.03	32.779	25.818	
37	6.03	32.775	25.815	







Sta 116 Depth 53 M Date 6/16/89
Lat 40 0.0N Lon 73 21.2W Time 2130

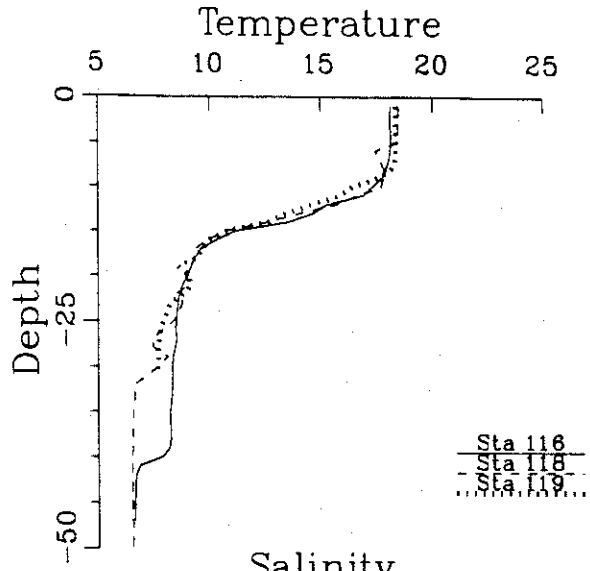
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.13	30.441	21.781	
3	18.12	30.418	21.766	
5	18.13	30.360	21.720	
7	18.05	30.366	21.743	
10	17.33	30.502	22.017	
12	15.25	30.907	22.792	
15	11.21	32.299	24.659	
17	9.59	32.514	25.102	
20	9.01	32.579	25.245	
22	8.63	32.592	25.313	
25	8.48	32.617	25.356	
27	8.51	32.654	25.380	
30	8.31	32.675	25.426	
32	8.30	32.682	25.433	
35	8.21	32.686	25.450	
40	7.88	32.765	25.560	
45	6.63	32.886	25.826	
47	6.62	32.878	25.821	

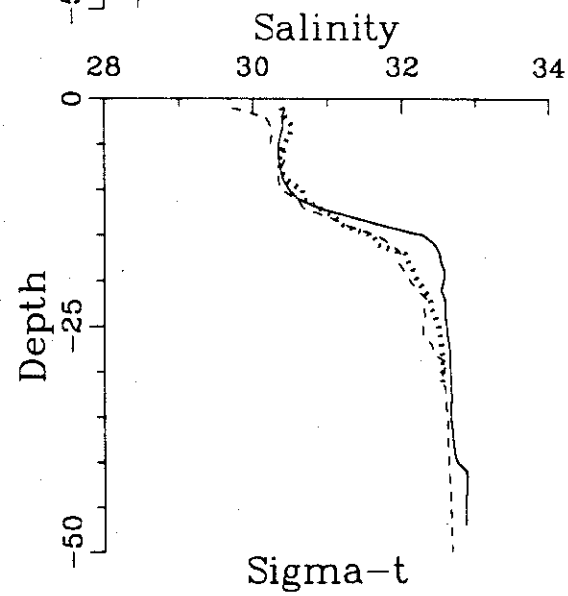
Sta 118 Depth 58 M Date 6/16/89
Lat 39 59.0N Lon 73 24.5W Time 2224

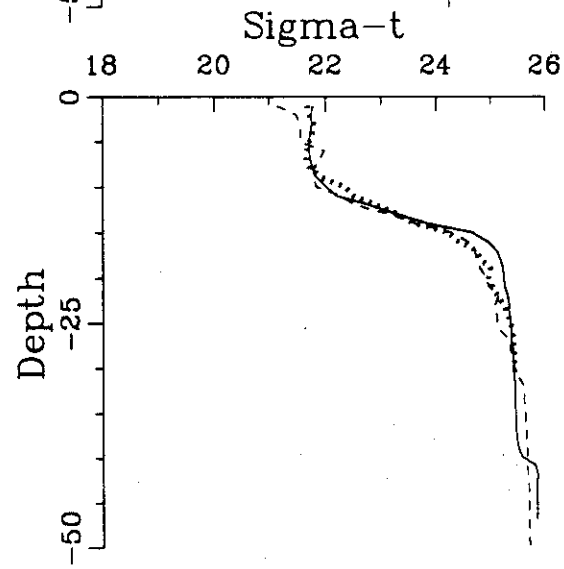
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.48	29.725	21.152	
3	18.45	30.247	21.557	
5	18.43	30.244	21.559	
8	17.81	30.360	21.796	
10	17.70	30.385	21.841	
12	15.64	30.694	22.545	
15	10.78	31.693	24.264	
17	9.38	31.991	24.728	
20	8.92	32.133	24.911	
22	8.52	32.344	25.136	
25	8.38	32.293	25.117	
27	7.41	32.411	25.349	
30	7.68	32.550	25.420	
32	6.64	32.604	25.603	
35	6.57	32.629	25.632	
40	6.51	32.650	25.656	
45	6.51	32.675	25.676	
50	6.52	32.692	25.688	
53	6.53	32.699	25.692	

Sta 119 Depth 38 M Date 6/16/89
Lat 39 55.0N Lon 73 30.0W Time 2318

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.36	30.389	21.686	
3	18.37	30.535	21.795	
5	18.36	30.433	21.720	
7	18.33	30.358	21.670	
10	16.44	30.674	22.352	
12	14.63	30.899	22.917	
15	10.75	31.627	24.218	
17	9.67	32.057	24.733	
20	9.02	32.223	24.965	
22	8.84	32.390	25.124	
25	7.91	32.508	25.354	
27	7.71	32.543	25.410	
30	7.67	32.561	25.430	
31	7.66	32.562	25.432	







Sta 120 Depth 27 M Date 6/17/89
Lat 39 55.0N Lon 73 38.0W Time 12

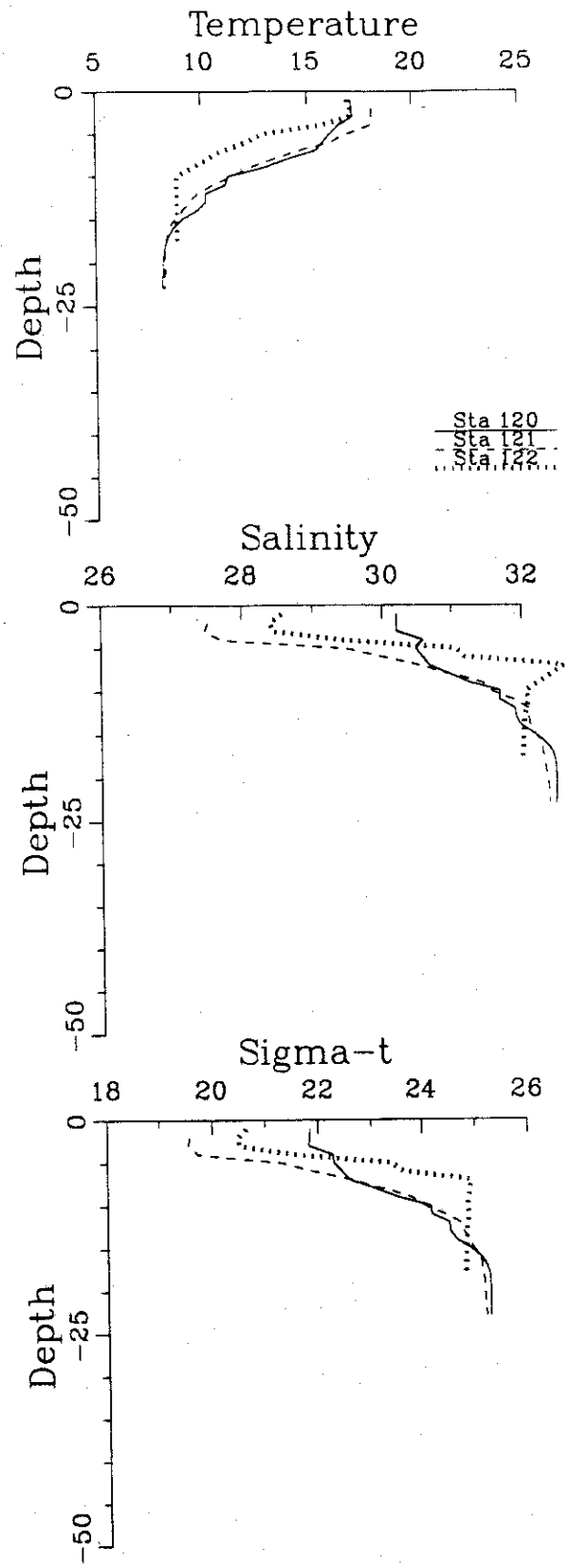
Depth	Temp	Salinity	Sigma-t	Oxygen
1	17.06	30.206	21.854	
3	17.15	30.205	21.832	
5	16.07	30.494	22.297	
7	15.41	30.702	22.601	
10	11.31	31.686	24.166	
12	10.24	31.896	24.514	
15	9.10	32.172	24.913	
17	8.45	32.425	25.210	
20	8.21	32.485	25.292	
22	8.18	32.480	25.293	
23	8.17	32.476	25.291	

Sta 121 Depth 29 M Date 6/17/89
Lat 39 55.0N Lon 73 46.0W Time 106

Depth	Temp	Salinity	Sigma-t	Oxygen
2	18.07	27.529	19.580	
3	18.09	27.490	19.546	
5	16.90	29.464	21.324	
7	14.63	30.569	22.664	
10	11.47	31.563	24.042	
12	9.83	32.089	24.732	
15	8.77	32.173	24.965	
17	8.39	32.286	25.110	
20	8.30	32.353	25.176	
22	8.29	32.381	25.199	
23	8.28	32.382	25.202	

Sta 122 Depth 23 M Date 6/17/89
Lat 39 55.0N Lon 73 54.0W Time 212

Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.89	28.570	20.644	
2	17.04	28.407	20.486	
3	17.00	28.441	20.521	
4	15.69	29.384	21.531	
5	13.00	31.063	23.371	
6	12.12	31.184	23.631	
7	11.03	32.603	24.927	
10	8.86	32.043	24.849	
11	8.86	32.086	24.883	
12	8.87	32.055	24.857	
13	8.87	32.027	24.835	
14	8.87	32.022	24.832	
15	8.87	32.015	24.826	
16	8.87	32.008	24.821	
17	8.87	32.004	24.818	
18	8.87	32.001	24.815	



Sta 123 Depth 17 M Date 6/17/89
Lat 39 55.0N Lon 74 0.0W Time 248

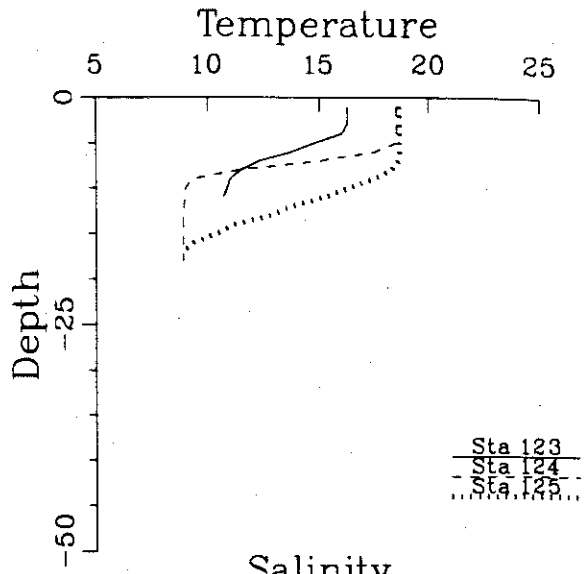
Depth	Temp	Salinity	Sigma-t	Oxygen
1	16.31	30.168	21.995	
2	16.30	30.189	22.013	
3	16.28	30.155	21.991	
4	16.05	30.328	22.175	
5	14.75	30.776	22.798	
6	13.70	31.101	23.263	
7	12.27	31.388	23.761	
8	11.47	31.423	23.934	
9	10.98	31.426	24.023	
10	10.88	31.420	24.035	
11	10.69	31.434	24.079	

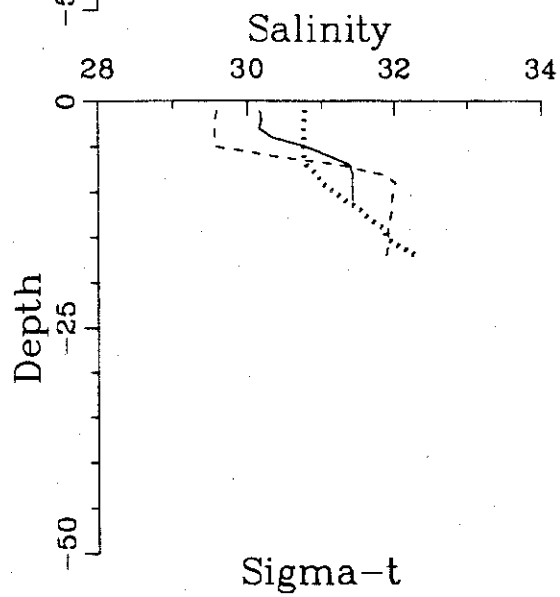
Sta 124 Depth 24 M Date 6/17/89
Lat 39 29.9N Lon 73 59.9W Time 518

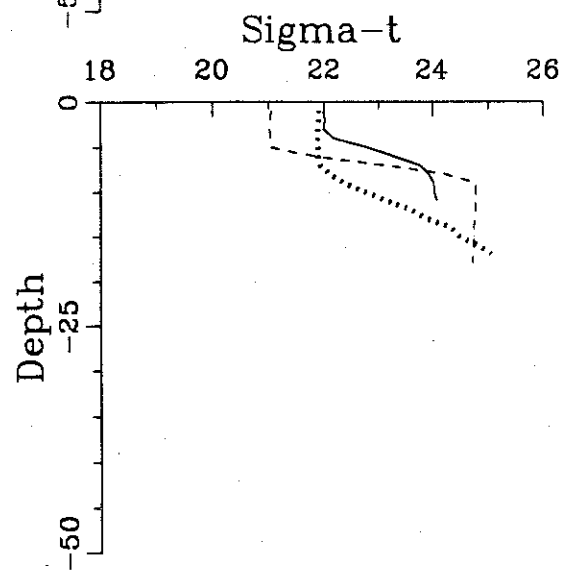
Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.53	29.597	21.043	
2	18.53	29.575	21.026	
3	18.53	29.572	21.024	
4	18.53	29.572	21.024	
5	18.50	29.590	21.045	
6	17.54	30.316	21.826	
7	14.95	31.235	23.108	
8	11.45	31.810	24.237	
9	9.26	32.027	24.775	
10	8.99	31.989	24.787	
11	8.96	31.966	24.774	
12	8.92	31.966	24.780	
13	8.90	31.939	24.762	
14	8.89	31.912	24.743	
15	8.89	31.919	24.748	
16	8.89	31.905	24.737	
17	8.88	31.887	24.725	
18	8.88	31.885	24.723	

Sta 125 Depth 24 M Date 6/17/89
Lat 39 30.0N Lon 73 44.9W Time 636

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.65	30.768	21.904	
2	18.67	30.764	21.896	
3	18.68	30.757	21.888	
4	18.69	30.754	21.884	
5	18.69	30.755	21.885	
6	18.68	30.758	21.889	
7	18.63	30.796	21.930	
8	18.29	30.928	22.114	
9	17.45	30.997	22.367	
10	16.33	31.170	22.756	
11	15.17	31.334	23.137	
12	13.73	31.544	23.598	
13	12.81	31.661	23.869	
14	11.19	31.851	24.315	
15	10.38	31.884	24.481	
16	9.34	32.075	24.800	
17	8.85	32.293	25.046	





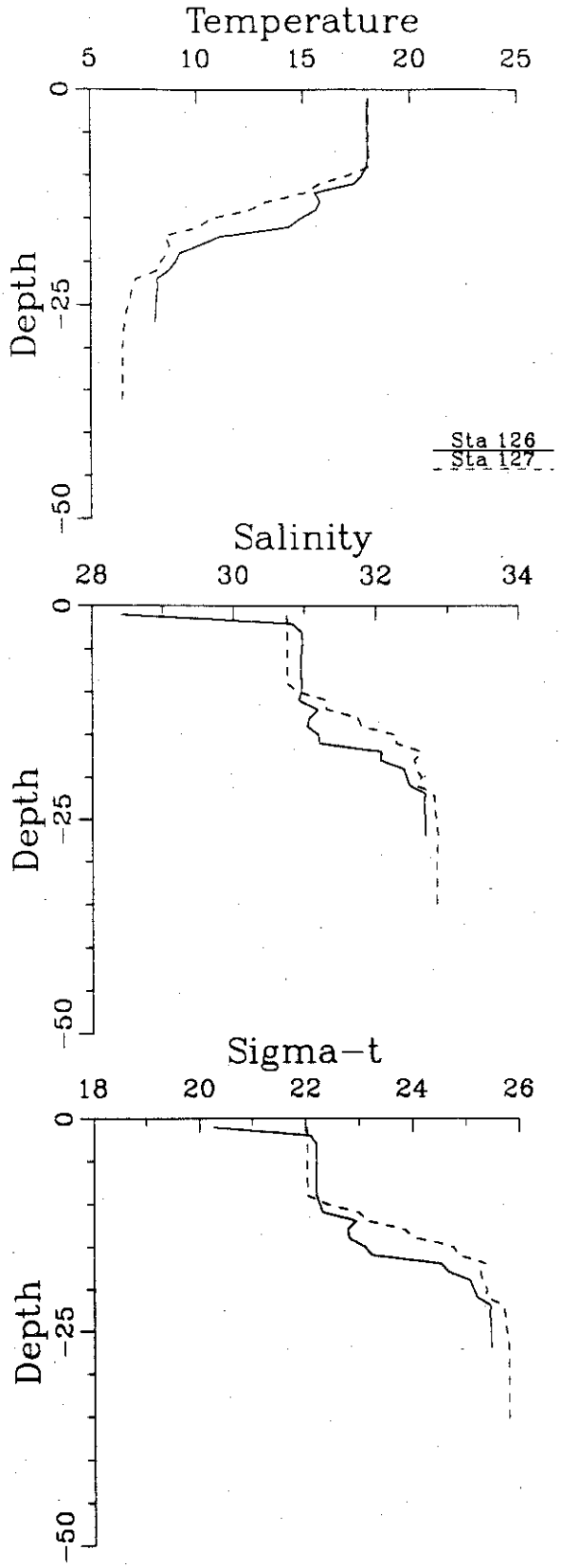


Sta 126 Depth 35 M Date 6/17/89
Lat 39 30.0N Lon 73 29.0W Time 748

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.04	28.428	20.271	
3	18.03	30.969	22.208	
5	18.03	30.965	22.205	
7	18.04	30.957	22.196	
10	17.76	30.958	22.264	
12	15.56	31.193	22.944	
15	14.87	31.206	23.102	
17	11.09	32.083	24.513	
20	9.00	32.444	25.141	
22	8.13	32.687	25.462	
25	8.09	32.693	25.473	
27	8.06	32.695	25.479	

Sta 127 Depth 40 M Date 6/17/89
Lat 39 30.1N Lon 73 14.7W Time 912

Depth	Temp	Salinity	Sigma-t	Oxygen
1	18.09	30.749	22.026	
3	18.09	30.758	22.032	
5	18.09	30.756	22.031	
7	18.09	30.756	22.031	
10	17.12	30.930	22.392	
12	15.08	31.323	23.148	
15	10.64	32.290	24.752	
17	8.50	32.640	25.371	
20	8.31	32.637	25.397	
22	7.13	32.804	25.695	
25	6.81	32.834	25.762	
27	6.61	32.859	25.808	
30	6.54	32.845	25.806	
32	6.54	32.846	25.807	
35	6.52	32.844	25.808	
36	6.51	32.844	25.809	



Section G

Oregon II 89-04
12-21 August 1989

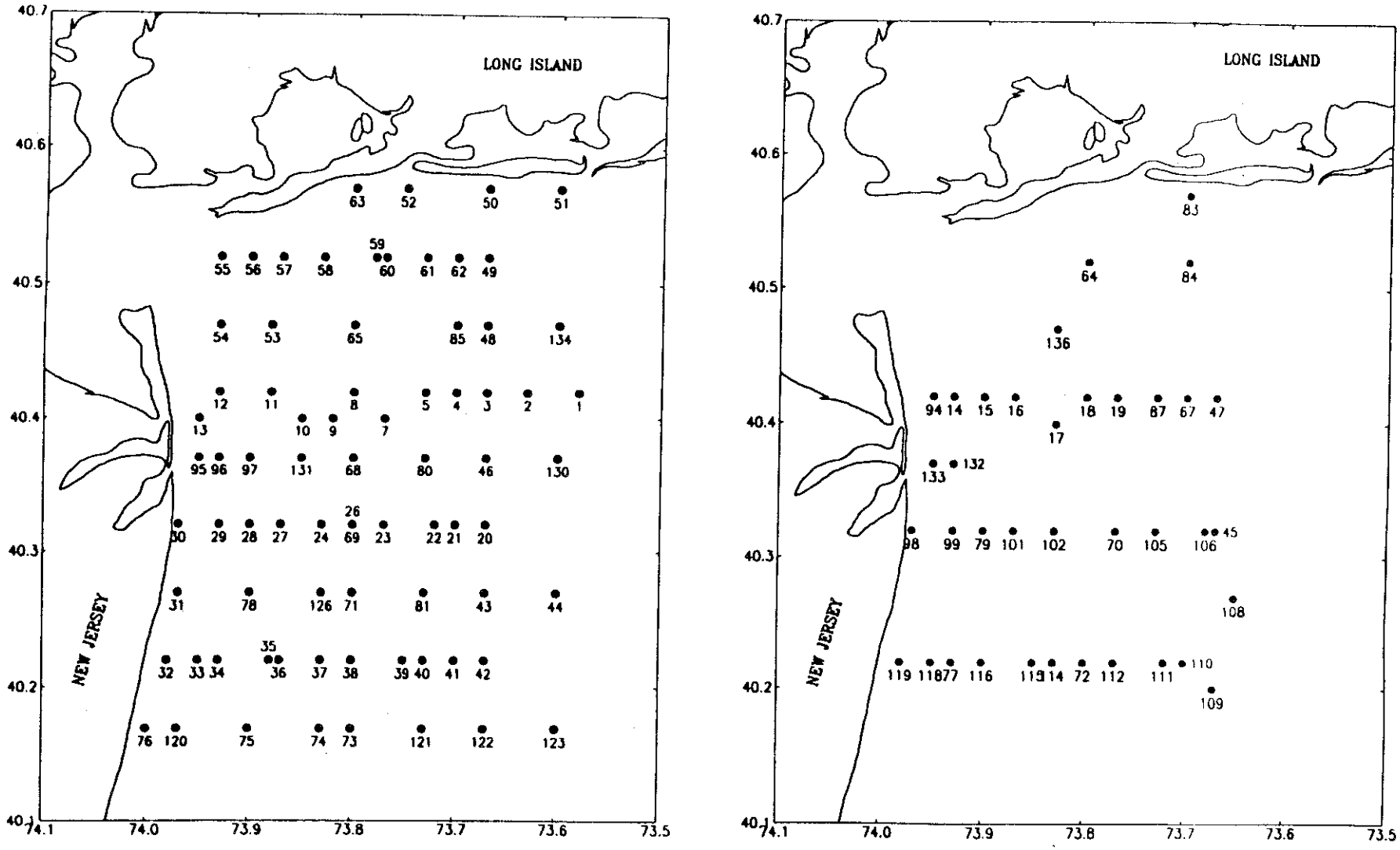


Figure G-1. Locations of CTD stations on cruise ORE89-04 during (a) the first survey and (b) the second survey.

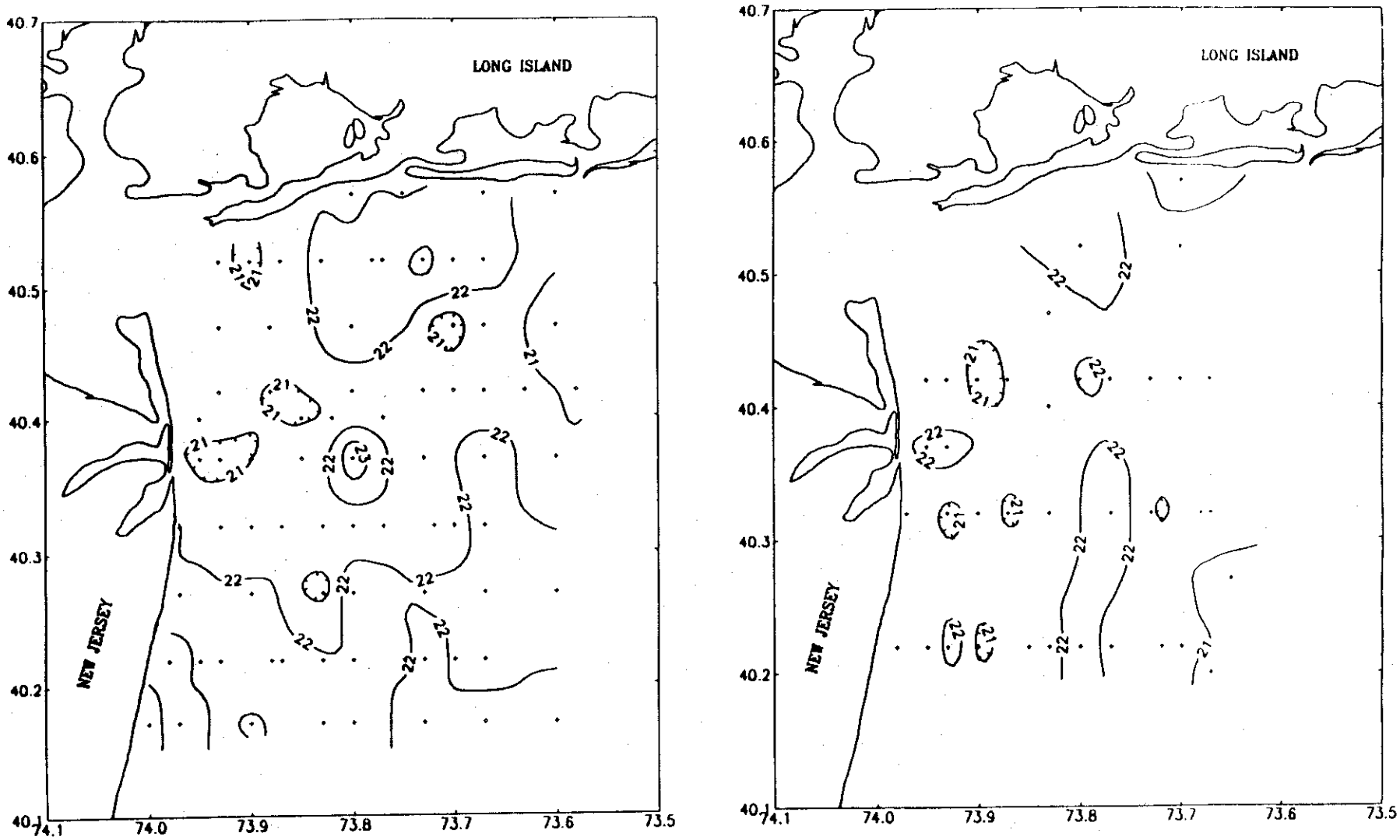


Figure G-2. Surface temperature on cruise ORE89-04 during (a) the first survey and (b) the second survey.

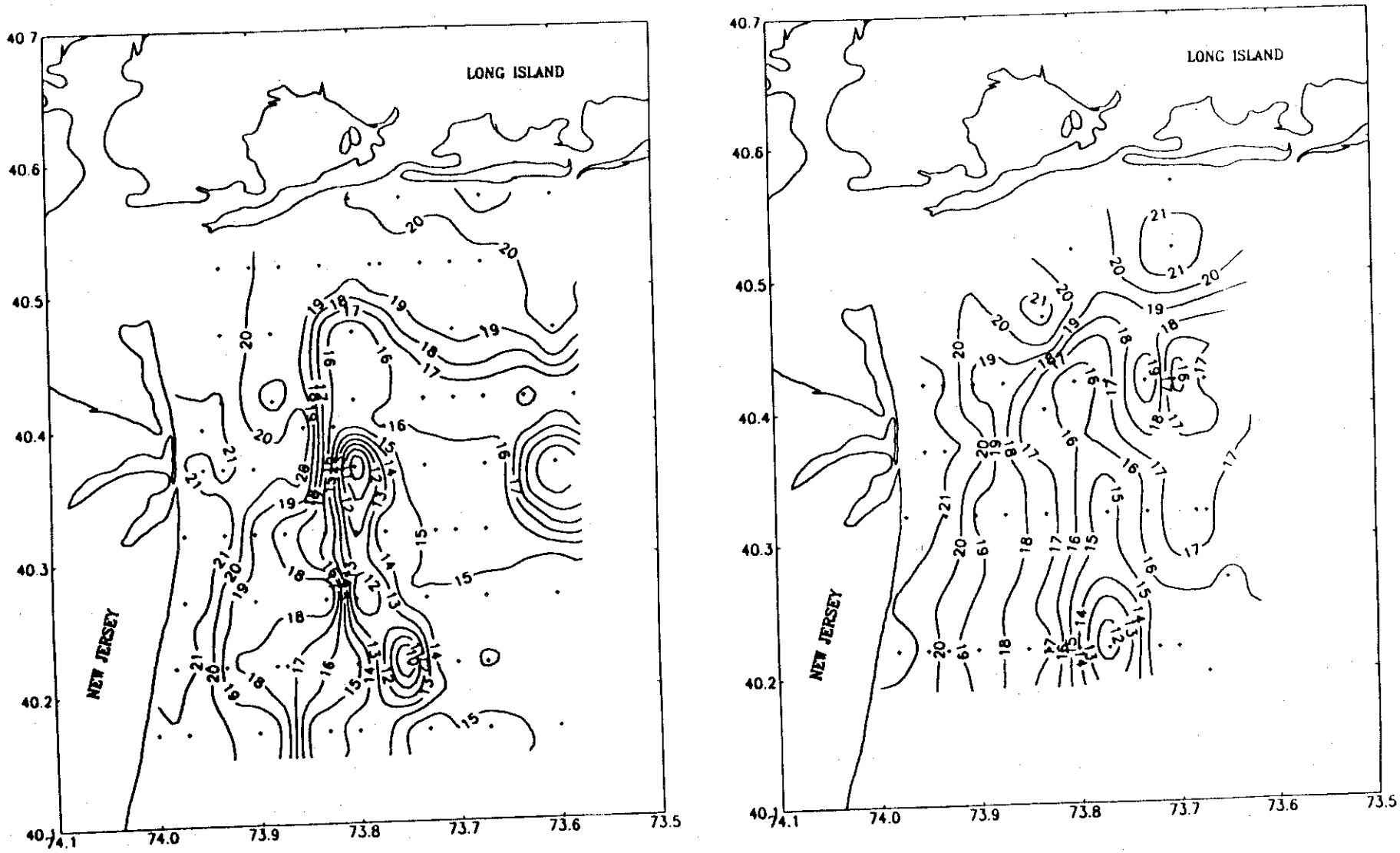


Figure G-3. Bottom temperature on cruise ORE89-04 during (a) the first survey and (b) the second survey.

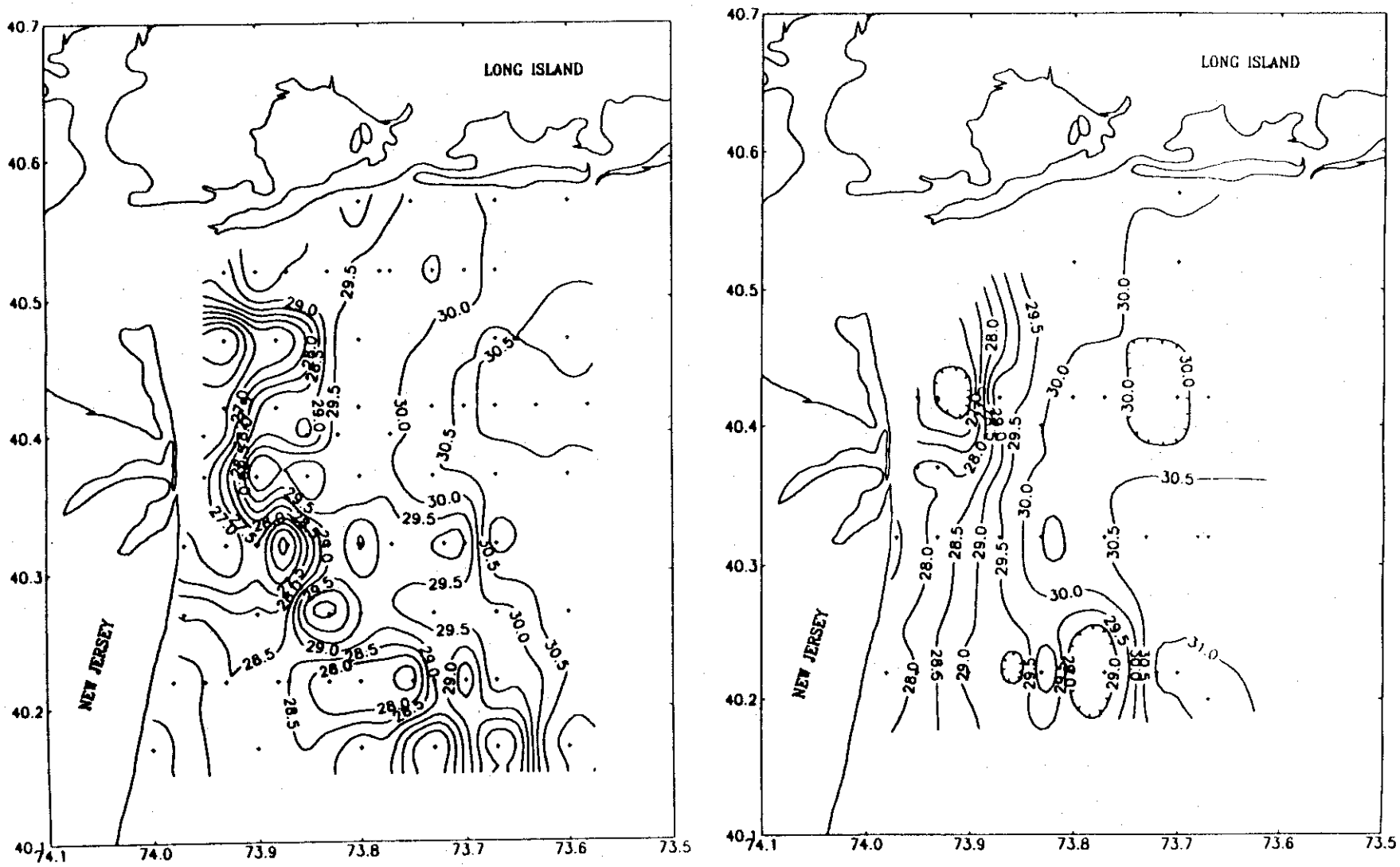


Figure G-4. Surface salinity on cruise ORE89-04 during (a) the first survey and (b) the second survey.

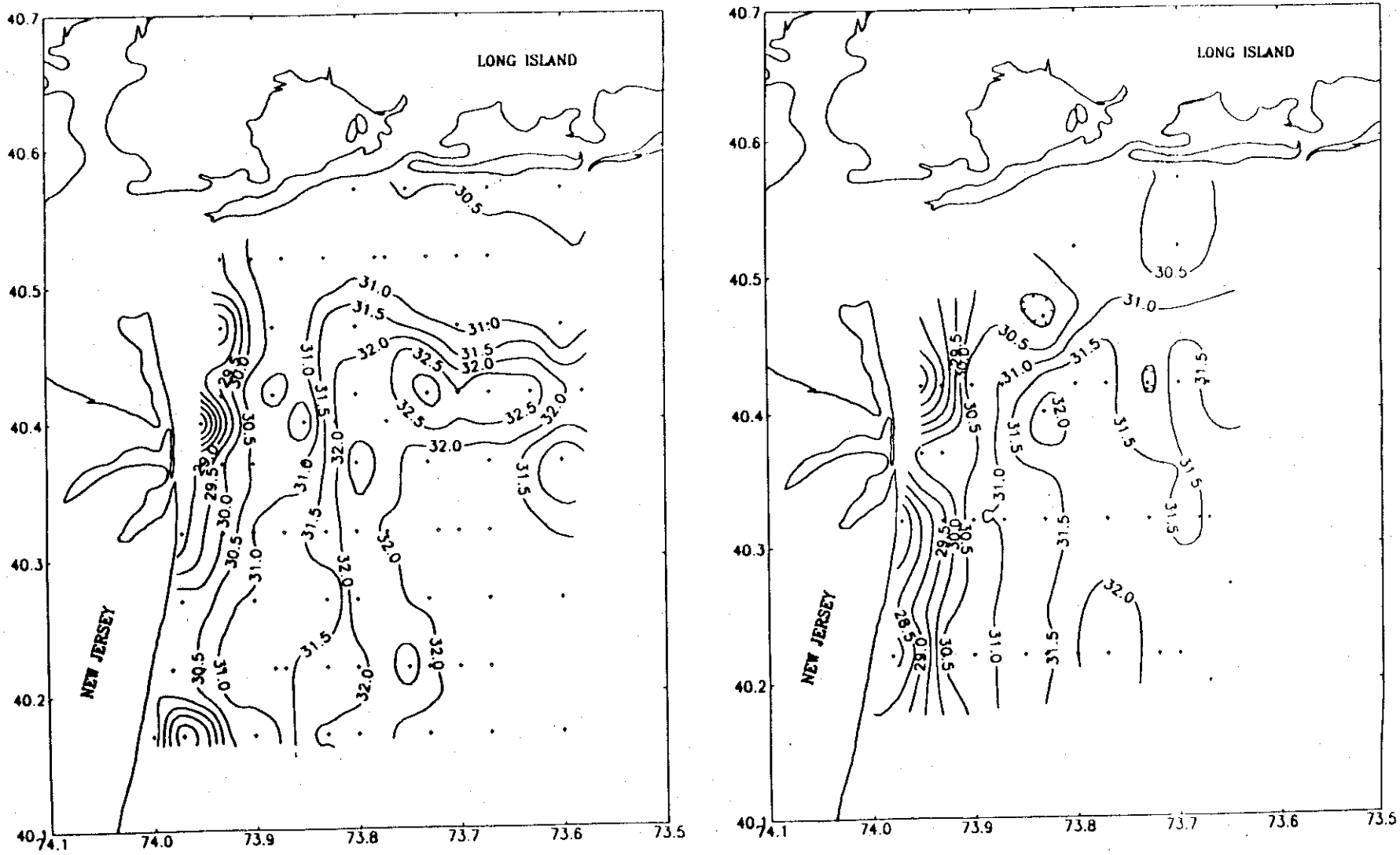


Figure G-5. Bottom salinity on cruise ORE89-04 during (a) the first survey and (b) the second survey.

Sta 1 Depth 23 M Date 8/12/89
Lat 40 25.0N Lon 73 35.9W Time 306

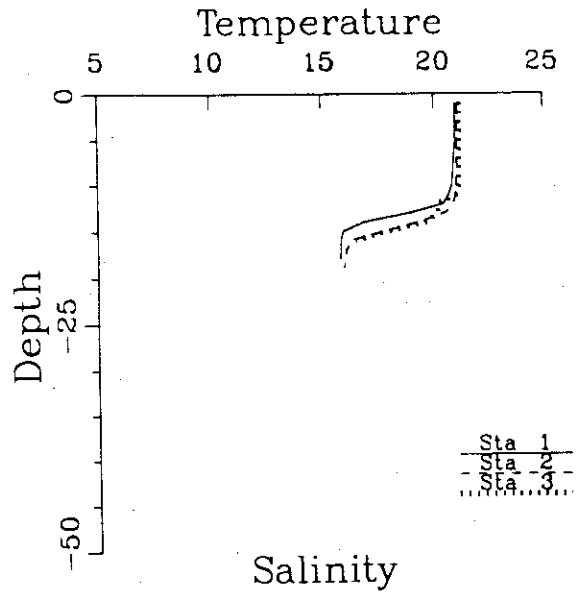
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.96	30.417	21.049	
2	20.96	30.427	21.057	
3	20.95	30.435	21.065	
5	20.94	30.452	21.081	
6	20.92	30.470	21.100	
7	20.89	30.495	21.127	
8	20.87	30.505	21.139	
10	20.81	30.539	21.181	
11	20.67	30.635	21.291	
12	20.43	30.779	21.462	
13	18.97	31.423	22.323	
14	16.90	32.076	23.319	
15	15.95	32.093	23.548	
16	15.84	32.004	23.504	
17	15.83	31.980	23.488	
18	15.81	32.042	23.540	

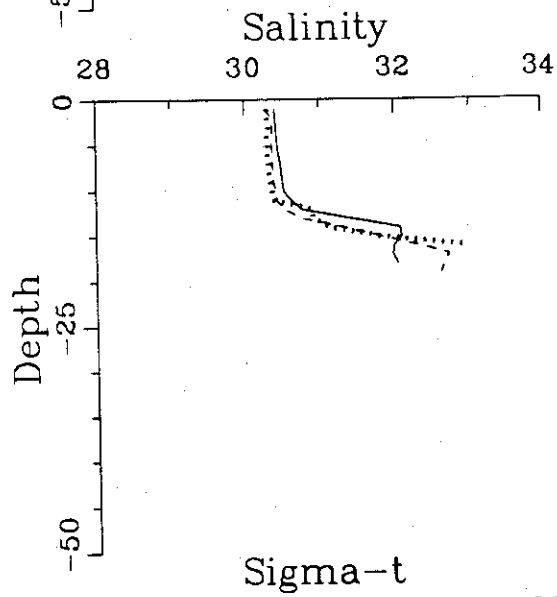
Sta 2 Depth 22 M Date 8/12/89
Lat 40 25.1N Lon 73 38.1W Time 324

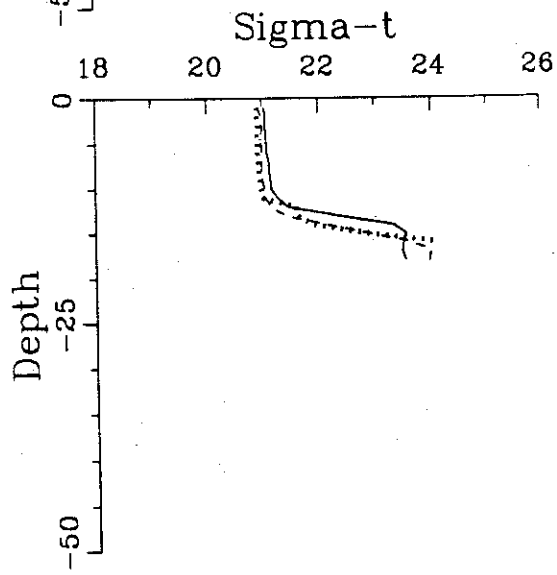
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.06	30.285	20.923	
2	21.06	30.379	20.994	
3	21.05	30.381	20.998	
4	21.05	30.380	20.997	
5	21.05	30.375	20.993	
6	21.05	30.387	21.002	
7	21.05	30.379	20.996	
8	21.04	30.389	21.007	
9	21.03	30.399	21.017	
10	20.99	30.430	21.051	
11	20.97	30.445	21.068	
12	20.86	30.524	21.156	
13	20.50	30.779	21.444	
14	19.39	31.325	22.144	
16	16.31	32.314	23.636	
17	16.09	32.724	24.000	
19	15.97	32.609	23.939	

Sta 3 Depth 25 M Date 8/12/89
Lat 40 25.0N Lon 73 40.0W Time 412

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.15	30.305	20.914	
2	21.15	30.305	20.914	
3	21.14	30.322	20.929	
4	21.15	30.306	20.915	
5	21.14	30.316	20.925	
6	21.14	30.316	20.925	
7	21.13	30.329	20.937	
8	21.12	30.339	20.947	
9	21.11	30.355	20.962	
10	21.09	30.377	20.984	
11	21.03	30.405	21.021	
12	20.20	30.905	21.618	
13	20.15	30.919	21.641	
14	19.74	31.145	21.918	
15	17.98	31.808	22.859	
16	16.51	32.922	24.056	







Sta 4 Depth 24 M Date 8/12/89
Lat 40 25.0N Lon 73 42.0W Time 1430

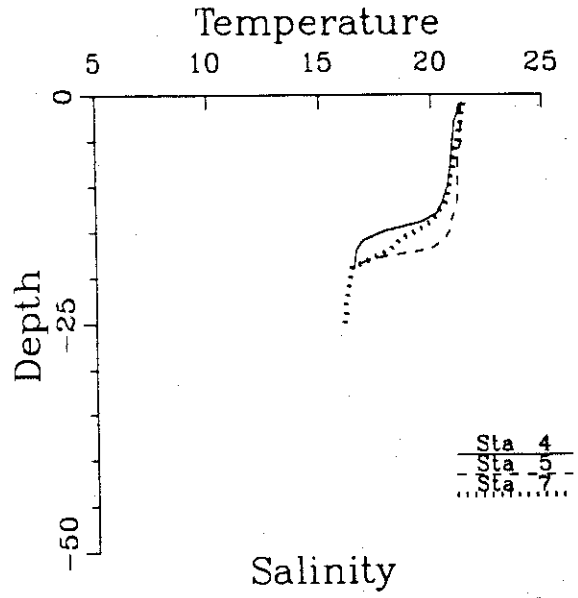
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.25	30.651	21.149	
2	21.20	30.573	21.103	
3	21.04	30.738	21.271	
4	21.00	30.544	21.135	
5	20.96	30.560	21.157	
6	20.92	30.609	21.205	
7	20.87	30.581	21.197	
8	20.84	30.604	21.222	
9	20.77	30.603	21.240	
10	20.73	30.600	21.248	
11	20.57	30.805	21.446	
12	20.44	30.740	21.430	
13	20.24	30.763	21.500	
14	19.45	31.188	22.024	
15	17.81	32.347	23.311	
16	16.90	32.185	23.402	
17	16.61	32.100	23.404	
18	16.56	32.079	23.399	
19	16.51	32.433	23.682	

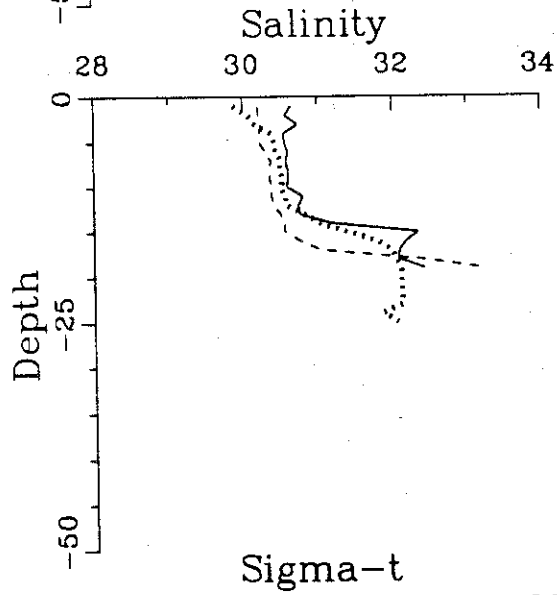
Sta 5 Depth 24 M Date 8/12/89
Lat 40 25.0N Lon 73 44.0W Time 1900

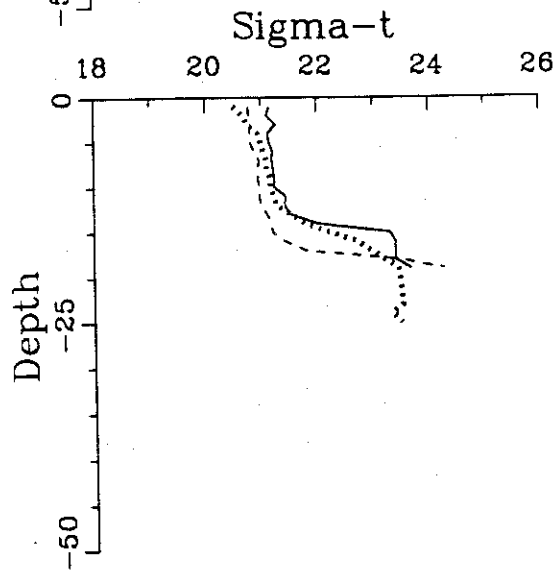
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.36	30.206	20.783	
2	21.36	30.215	20.790	
3	21.34	30.244	20.817	
4	21.35	30.232	20.805	
5	21.34	30.234	20.809	
6	21.26	30.302	20.882	
7	21.19	30.384	20.963	
8	21.19	30.372	20.954	
9	21.19	30.368	20.951	
10	21.17	30.389	20.972	
11	21.16	30.390	20.975	
12	21.12	30.414	21.004	
13	20.99	30.510	21.111	
14	20.86	30.563	21.186	
15	20.77	30.564	21.210	
16	20.52	30.769	21.431	
17	19.89	31.058	21.814	
18	17.20	32.340	23.451	
19	16.42	33.191	24.283	

Sta 7 Depth 31 M Date 8/13/89
Lat 40 24.9N Lon 73 46.1W Time 0

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.47	29.877	20.505	
3	21.34	30.165	20.757	
5	21.19	30.424	20.993	
7	21.02	30.513	21.106	
10	20.79	30.506	21.161	
12	20.57	30.577	21.273	
15	19.24	31.411	22.247	
17	18.12	31.988	22.962	
23	16.13	32.135	23.540	
24	16.12	31.872	23.341	
25	16.06	32.065	23.502	







Sta 8 Depth 34 M Date 8/13/89
Lat 40 25.0N Lon 73 48.0W Time 36

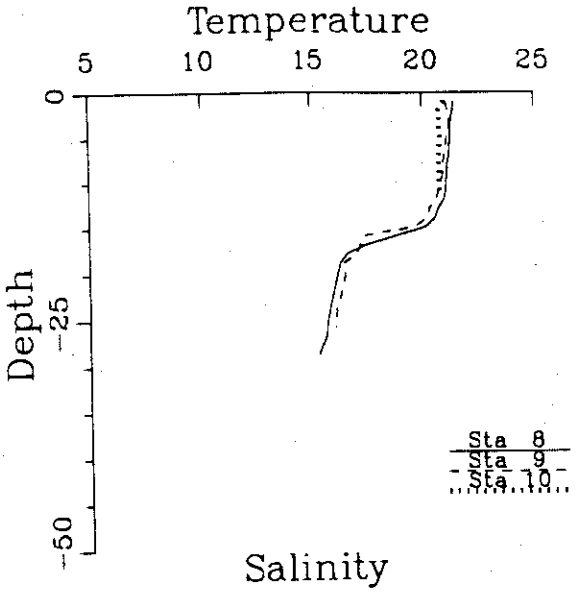
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.42	29.730	20.407	
3	21.31	29.863	20.537	
5	21.25	30.029	20.678	
7	21.17	30.250	20.867	
10	21.05	30.328	20.958	
12	20.92	30.371	21.025	
15	20.16	30.745	21.507	
17	17.39	32.898	23.832	
23	15.89	32.355	23.762	
25	15.72	32.553	23.952	
26	15.68	32.547	23.956	
27	15.65	32.469	23.903	
29	15.28	32.398	23.929	

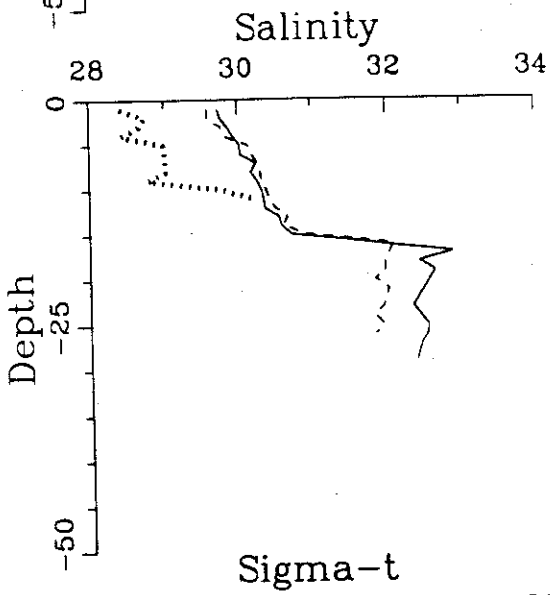
Sta 9 Depth 30 M Date 8/13/89
Lat 40 24.9N Lon 73 49.9W Time 100

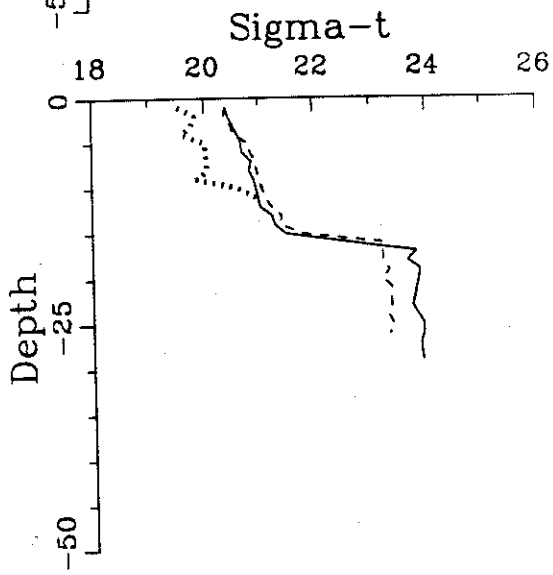
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.07	29.585	20.390	
3	21.21	29.775	20.497	
5	21.10	30.137	20.800	
7	20.95	30.271	20.941	
10	20.79	30.392	21.075	
12	20.56	30.522	21.234	
15	19.65	30.946	21.790	
18	16.99	31.985	23.228	
20	16.47	31.848	23.243	
23	16.23	31.958	23.382	
25	16.06	31.950	23.414	
26	16.04	31.850	23.342	

Sta 10 Depth 17 M Date 8/13/89
Lat 40 24.9N Lon 73 51.9W Time 136

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.96	28.420	19.538	
2	20.74	28.745	19.841	
3	20.76	28.664	19.775	
4	20.75	28.429	19.600	
5	20.77	28.991	20.020	
8	20.71	29.023	20.059	
9	20.73	28.780	19.870	
10	20.72	29.784	20.633	
11	20.72	30.192	20.942	







Sta 11 Depth 23 M Date 8/13/89
Lat 40 25.0N Lon 73 53.9W Time 212

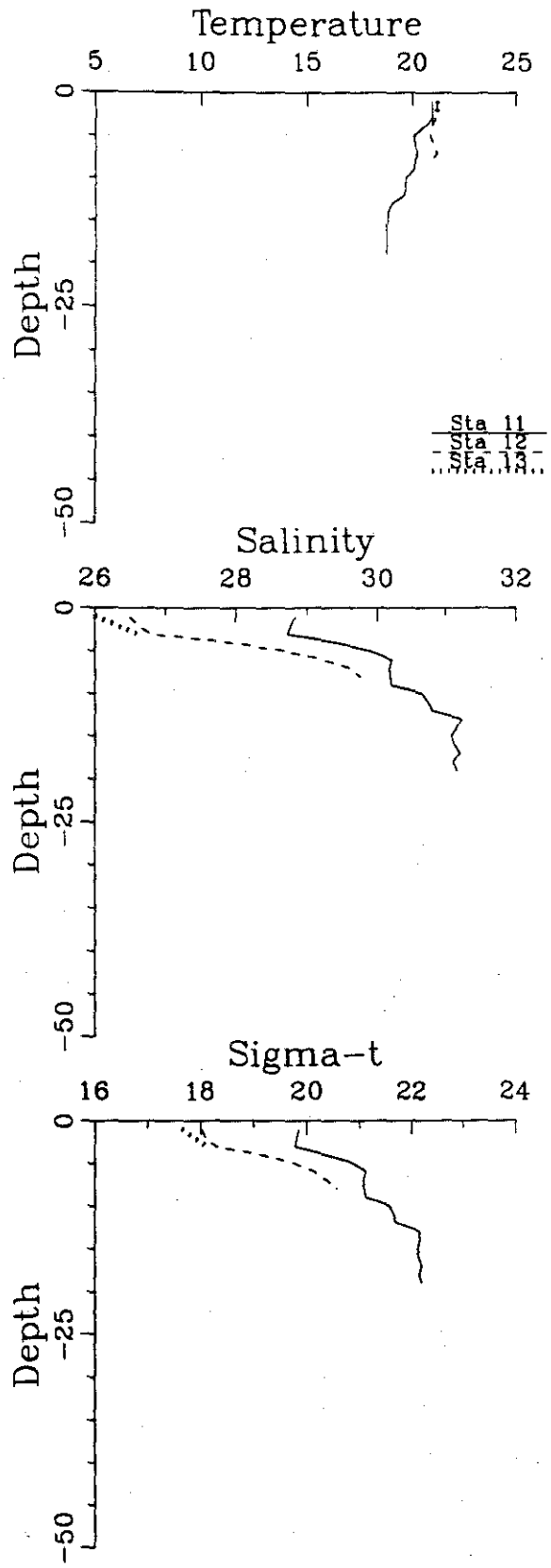
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.99	28.840	19.848	
3	20.97	28.728	19.768	
4	20.58	29.365	20.352	
5	20.07	29.888	20.880	
6	20.12	30.218	21.117	
7	20.21	30.173	21.060	
9	20.07	30.200	21.117	
10	19.67	30.655	21.564	
11	19.64	30.745	21.640	
12	19.60	30.800	21.692	
13	19.00	31.222	22.163	
14	18.80	31.156	22.162	
15	18.76	31.085	22.118	
16	18.75	31.122	22.149	
17	18.74	31.201	22.212	
18	18.73	31.112	22.146	
19	18.70	31.161	22.191	

Sta 12 Depth 12 M Date 8/13/89
Lat 40 25.0N Lon 73 56.0W Time 248

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.24	26.496	18.011	
2	21.20	26.598	18.098	
3	21.12	26.789	18.264	
4	20.91	27.891	19.151	
5	20.88	28.702	19.772	
6	21.03	29.229	20.131	
7	21.20	29.587	20.357	
8	20.90	29.761	20.568	

Sta 13 Depth 9 M Date 8/13/89
Lat 40 24.9N Lon 73 57.0W Time 324

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.25	26.006	17.638	
2	21.22	26.315	17.880	
3	21.16	26.590	18.103	



Sta 14 Depth 12 M Date 8/13/89
Lat 40 25.0N Lon. 73 56.1W Time 518

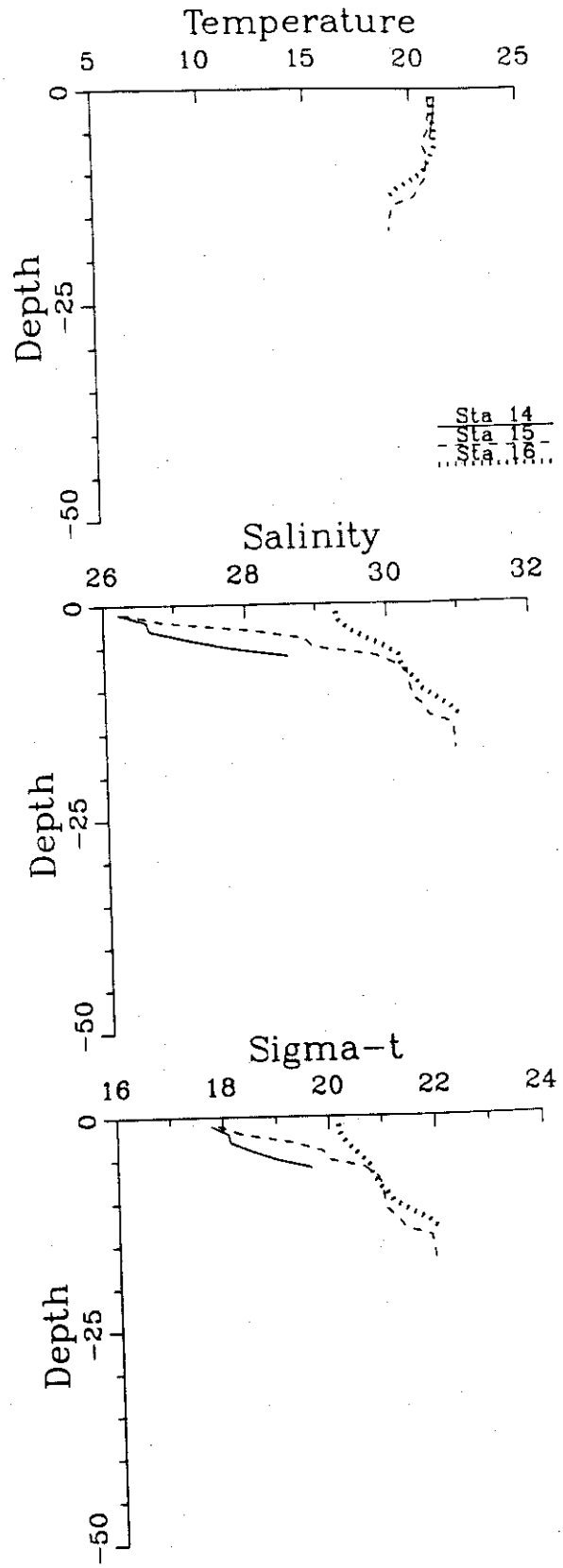
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.22	26.210	17.800	
2	21.18	26.613	18.115	
3	21.17	26.661	18.154	
4	21.08	27.147	18.544	
5	21.00	27.726	19.003	
6	20.98	28.606	19.673	

Sta 15 Depth 23 M Date 8/13/89
Lat 40 25.0N Lon 73 54.0W Time 818

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.89	26.264	17.927	
2	20.93	26.837	18.349	
3	20.90	28.094	19.307	
4	20.87	28.844	19.882	
5	20.85	28.968	19.981	
6	20.66	29.833	20.686	
7	20.61	30.114	20.912	
8	20.77	30.280	20.995	
9	20.75	30.293	21.010	
10	20.73	30.326	21.041	
11	20.64	30.375	21.101	
12	20.32	30.512	21.289	
13	20.09	30.579	21.399	
14	19.09	30.911	21.904	
15	19.00	30.926	21.938	
16	18.92	30.938	21.967	
17	18.89	30.940	21.976	

Sta 16 Depth 18 M Date 8/13/89
Lat 40 25.0N Lon 73 52.0W Time 1042

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.00	29.287	20.183	
2	21.01	29.323	20.208	
3	21.04	29.482	20.320	
4	21.08	29.706	20.479	
5	21.16	29.972	20.659	
6	21.14	30.158	20.805	
7	21.13	30.188	20.831	
8	20.97	30.271	20.936	
9	20.78	30.410	21.091	
10	20.57	30.490	21.207	
11	19.98	30.677	21.501	
12	19.29	30.870	21.823	
13	18.89	30.985	22.010	



Sta 17 Depth 29 M Date 8/13/89
Lat 40 24.9N Lon 73 50.1W Time 1330

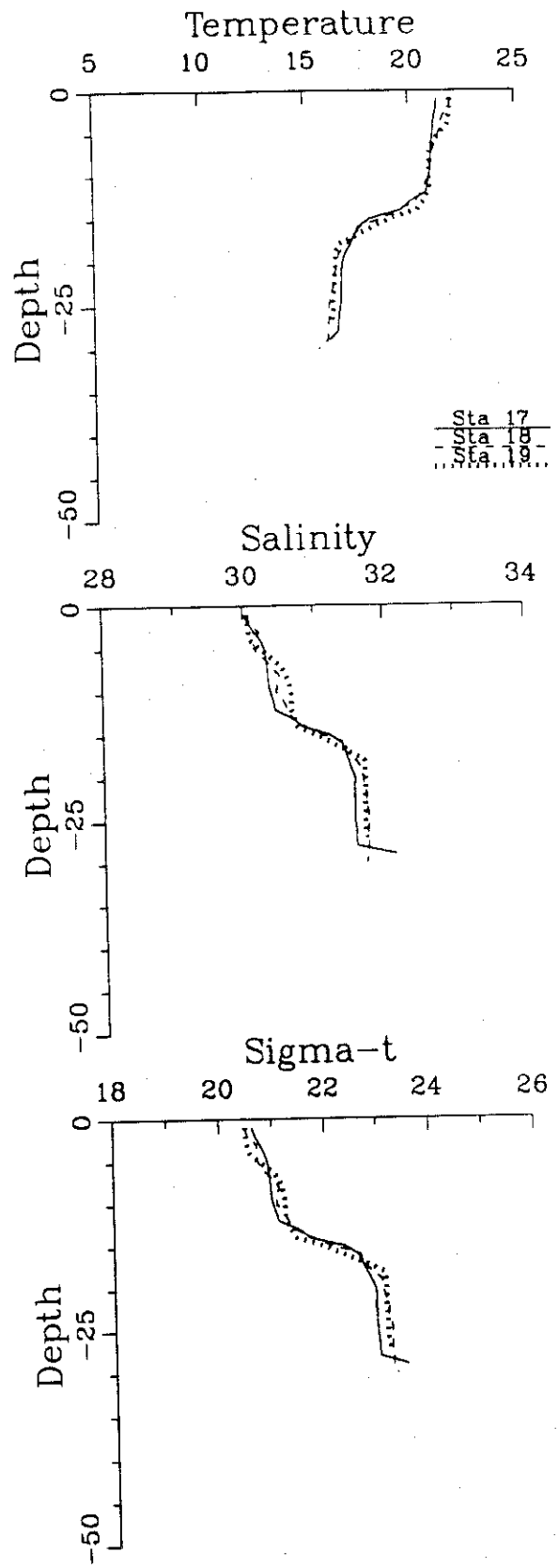
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.38	30.017	20.635	
3	21.26	30.165	20.779	
5	21.14	30.311	20.921	
7	21.07	30.348	20.968	
10	20.95	30.390	21.031	
12	20.78	30.454	21.124	
15	18.10	31.219	22.381	
17	17.36	31.444	22.729	
20	16.78	31.578	22.966	
22	16.72	31.567	22.971	
25	16.66	31.571	22.988	
27	16.56	31.591	23.026	
29	16.14	32.149	23.548	

Sta 18 Depth 35 M Date 8/13/89
Lat 40 25.0N Lon 73 48.0W Time 1636

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.05	30.083	20.503	
3	21.66	30.234	20.723	
5	21.43	30.169	20.736	
7	21.11	30.412	21.005	
10	20.98	30.479	21.091	
12	20.53	30.635	21.327	
15	18.68	31.117	22.162	
17	17.47	31.443	22.702	
20	16.57	31.698	23.106	
22	16.31	31.751	23.205	
25	16.10	31.767	23.265	
27	16.08	31.765	23.268	
30	15.61	31.742	23.354	

Sta 19 Depth 32 M Date 8/13/89
Lat 40 25.0N Lon 73 46.0W Time 2018

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.99	30.053	20.497	
3	21.92	30.089	20.543	
5	21.54	30.251	20.769	
7	20.98	30.546	21.141	
10	20.93	30.679	21.255	
12	20.88	30.680	21.269	
15	19.09	31.022	21.989	
18	16.57	31.726	23.127	
20	16.41	31.729	23.166	
22	16.37	31.716	23.165	
25	16.30	31.722	23.185	
27	16.20	31.737	23.219	



Sta 20 Depth 23 M Date 8/14/89
Lat 40 19.0N Lon 73 40.0W Time 42

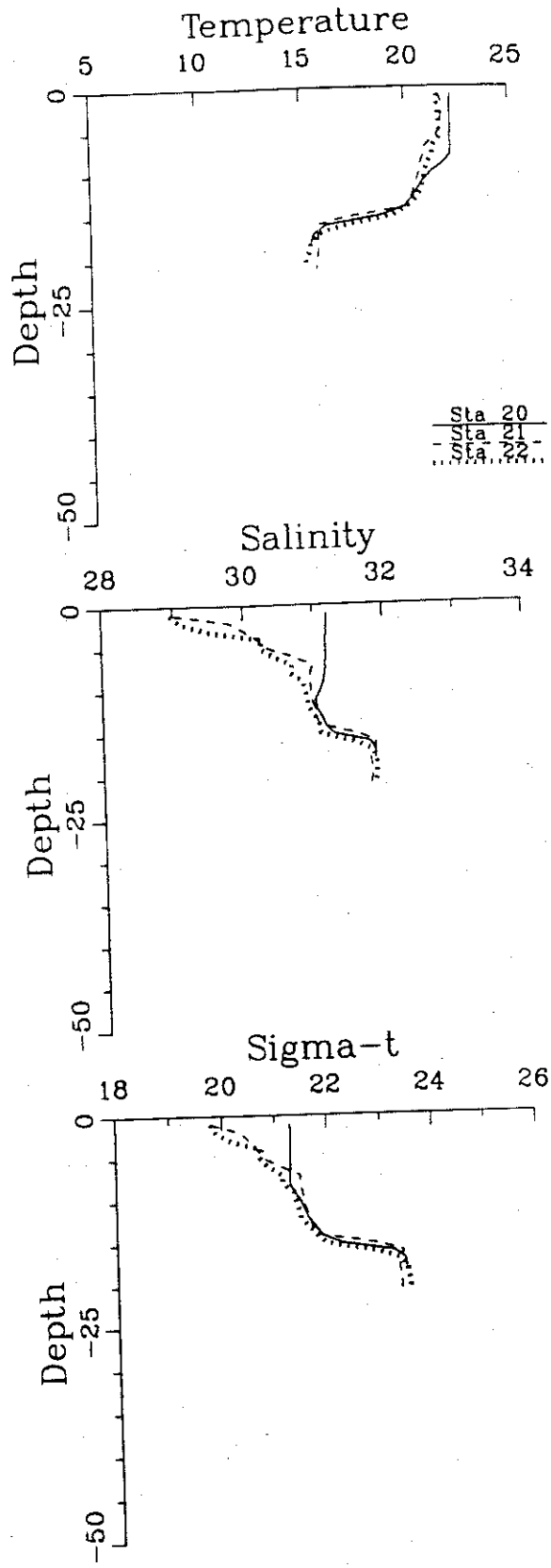
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.24	31.208	21.301	
2	22.21	31.211	21.311	
3	22.20	31.198	21.304	
4	22.20	31.194	21.301	
5	22.20	31.189	21.298	
6	22.19	31.187	21.299	
7	22.22	31.182	21.287	
8	22.19	31.171	21.287	
9	21.85	31.152	21.366	
10	21.27	31.102	21.485	
11	20.85	31.040	21.550	
12	20.57	31.044	21.627	
13	20.29	31.122	21.759	
14	19.94	31.175	21.890	
15	18.74	31.282	22.273	
16	16.22	31.793	23.258	
17	15.58	31.882	23.468	
18	15.48	31.868	23.479	

Sta 21 Depth 24 M Date 8/14/89
Lat 40 19.0N Lon 73 42.0W Time 324

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.70	29.023	19.797	
3	21.80	30.020	20.524	
5	21.73	30.349	20.791	
7	20.97	30.995	21.484	
10	20.69	30.968	21.538	
12	20.39	31.024	21.659	
15	17.30	31.591	22.855	
17	15.80	31.864	23.406	
20	15.74	31.822	23.387	
21	15.70	31.802	23.380	

Sta 22 Depth 26 M Date 8/14/89
Lat 40 19.0N Lon 73 43.9W Time 354

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.59	28.969	19.786	
3	21.63	29.500	20.177	
5	21.69	30.236	20.717	
7	21.34	30.697	21.160	
10	20.98	30.884	21.397	
12	20.80	30.928	21.478	
15	19.37	31.099	21.977	
17	15.82	31.830	23.375	
20	15.19	31.896	23.564	
21	15.21	31.851	23.525	



Sta 23 Depth 30 M Date 8/14/89
Lat 40 19.0N Lon 73 46.0W Time 448

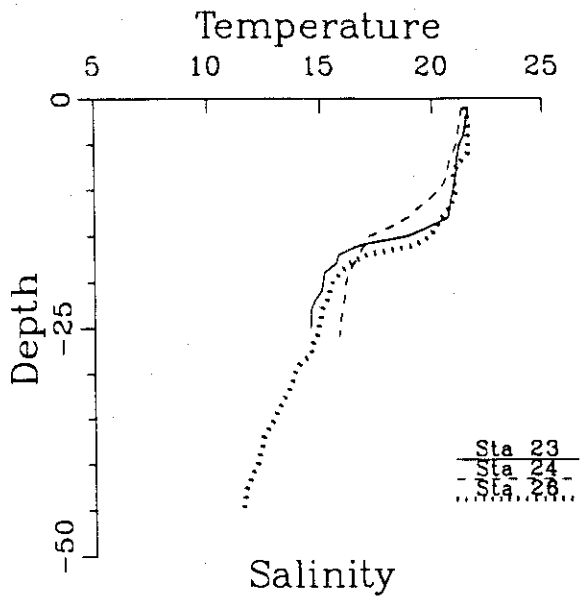
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.63	29.311	20.034	
3	21.50	29.470	20.189	
5	21.25	30.273	20.863	
7	21.10	30.364	20.972	
10	20.95	30.443	21.071	
12	20.79	30.551	21.195	
15	18.87	31.047	22.062	
17	15.82	31.871	23.407	
20	15.09	31.919	23.603	
22	14.75	31.957	23.705	
25	14.55	31.946	23.738	

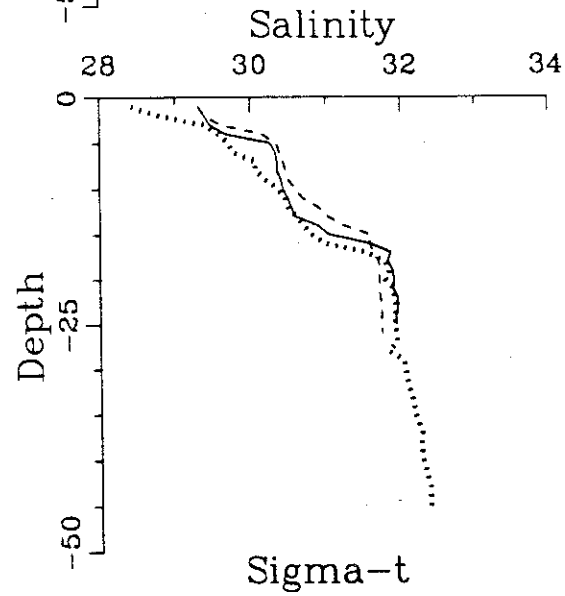
Sta 24 Depth 30 M Date 8/14/89
Lat 40 19.0N Lon 73 50.0W Time 518

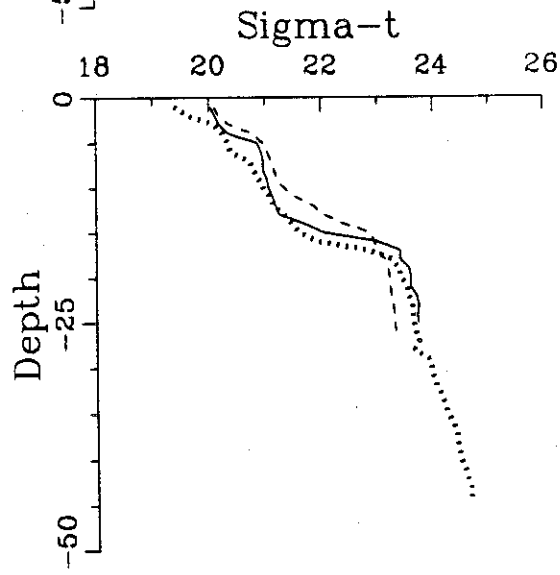
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.35	29.306	20.105	
3	21.22	29.614	20.372	
5	21.10	30.355	20.965	
7	20.76	30.441	21.120	
10	20.35	30.602	21.349	
12	19.31	30.910	21.848	
15	17.20	31.599	22.885	
17	16.73	31.630	23.017	
20	16.12	31.721	23.225	
22	16.03	31.738	23.258	
25	15.86	31.754	23.308	
26	15.82	31.756	23.319	

Sta 26 Depth 48 M Date 8/14/89
Lat 40 19.0N Lon 73 48.0W Time 948

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.50	28.430	19.403	
3	21.63	29.399	20.100	
5	21.63	29.719	20.342	
7	21.23	30.076	20.719	
10	21.09	30.363	20.974	
12	20.77	30.506	21.167	
15	19.89	30.807	21.623	
17	17.14	31.538	22.852	
20	15.52	31.798	23.417	
22	15.25	31.914	23.565	
25	14.89	31.928	23.653	
27	14.57	31.959	23.744	
30	13.85	32.067	23.976	
32	13.57	32.102	24.060	
35	12.94	32.185	24.248	
40	12.16	32.292	24.480	
45	11.52	32.394	24.677	







Sta 27 Depth 23 M Date 8/14/89
Lat 40 19.0N Lon 73 52.0W Time 1254

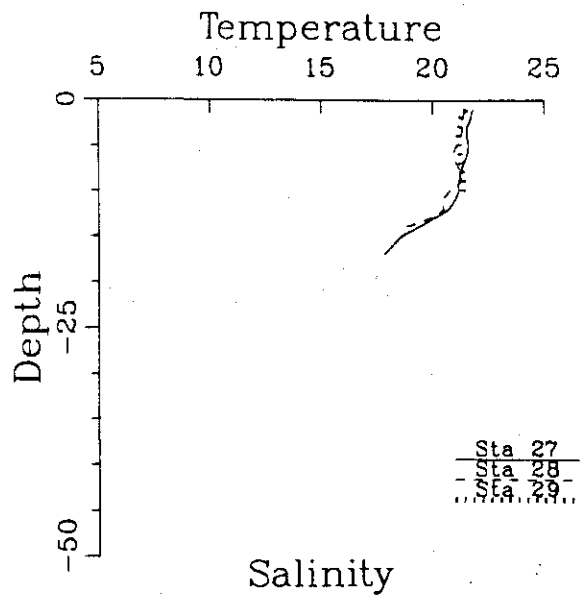
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.81	25.832	17.360	
2	21.74	25.910	17.437	
3	21.54	28.112	19.152	
4	21.56	29.125	19.912	
5	21.61	29.667	20.308	
6	21.56	29.907	20.503	
7	21.38	30.239	20.802	
8	21.28	30.277	20.858	
9	21.19	30.321	20.915	
10	21.17	30.314	20.915	
11	21.02	30.345	20.979	
12	20.73	30.423	21.114	
13	20.04	30.656	21.470	
14	19.33	30.863	21.808	
15	18.60	31.060	22.139	
16	18.22	31.142	22.294	
17	17.80	31.233	22.464	

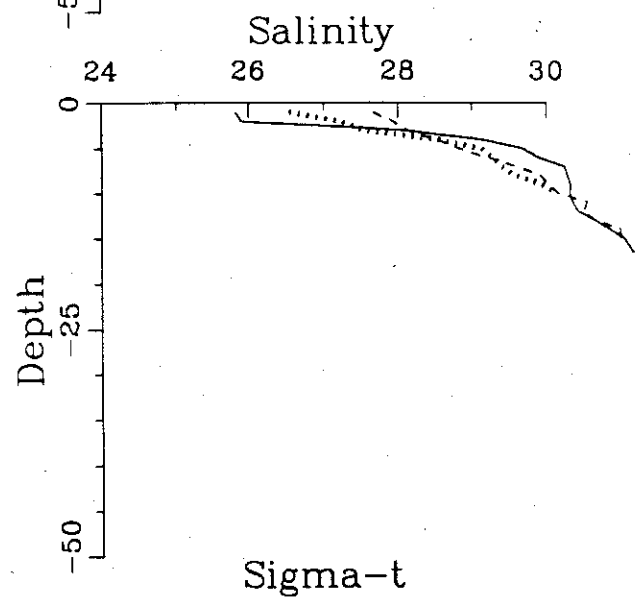
Sta 28 Depth 20 M Date 8/14/89
Lat 40 19.0N Lon 73 54.0W Time 1330

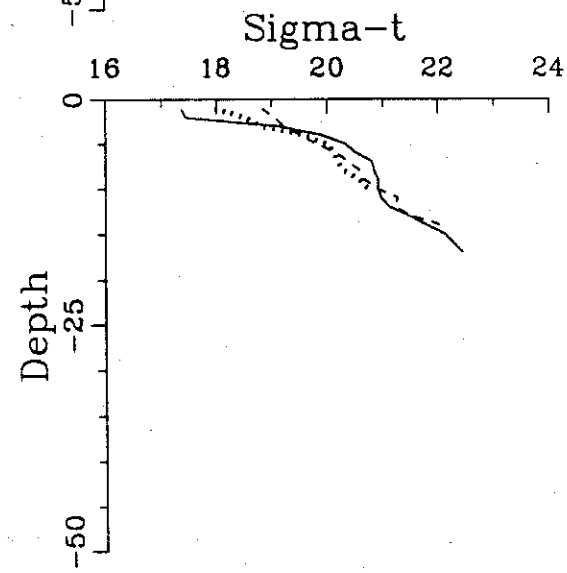
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.46	27.670	18.840	
2	21.39	27.933	19.057	
3	21.35	28.134	19.219	
4	21.28	28.528	19.535	
5	21.07	28.831	19.820	
6	20.90	29.222	20.160	
7	21.09	29.579	20.380	
8	21.29	29.919	20.584	
9	21.26	30.019	20.668	
10	20.75	30.159	20.909	
11	20.43	30.539	21.280	
12	20.48	30.494	21.233	
13	19.89	30.653	21.506	
14	18.77	31.008	22.057	
15	18.70	31.008	22.075	

Sta 29 Depth 16 M Date 8/14/89
Lat 40 19.0N Lon 73 56.0W Time 1354

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.51	26.545	17.977	
2	21.25	27.204	18.543	
3	21.20	27.554	18.821	
4	21.15	28.545	19.583	
5	21.19	29.123	20.009	
6	21.24	29.276	20.111	
7	21.30	29.394	20.185	
8	21.33	29.556	20.299	
9	21.39	29.930	20.566	
10	21.36	30.134	20.728	







Sta 30 Depth 11 M Date 8/14/89
Lat 40 19.0N Lon 73 58.0W Time 1812

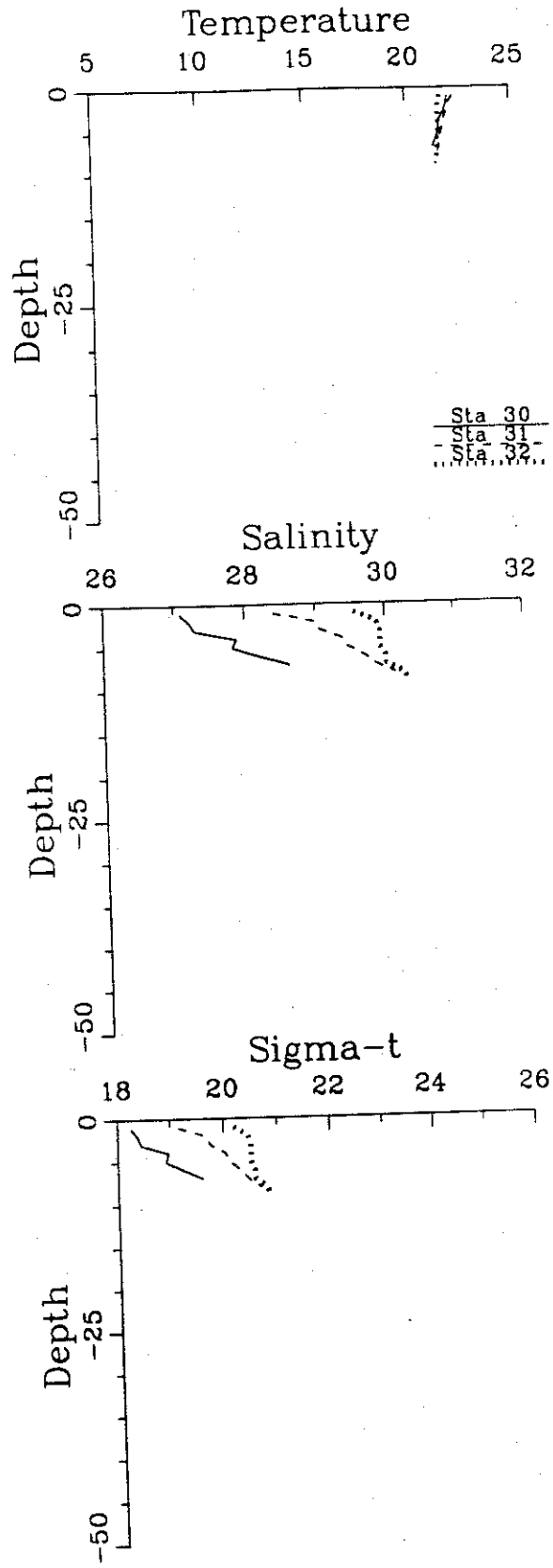
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.05	27.100	18.252	
2	21.97	27.239	18.378	
3	21.85	27.300	18.456	
4	21.57	27.889	18.976	
5	21.61	27.827	18.918	
6	21.46	28.215	19.251	
7	21.30	28.633	19.610	

Sta 31 Depth 12 M Date 8/14/89
Lat 40 16.0N Lon 73 58.0W Time 1954

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.31	28.404	19.165	
2	22.04	28.981	19.674	
3	21.98	29.071	19.758	
4	21.81	29.388	20.043	
5	21.76	29.460	20.111	
6	21.63	29.711	20.336	
7	21.58	29.865	20.466	
8	21.53	30.160	20.702	

Sta 32 Depth 15 M Date 8/14/89
Lat 40 13.0N Lon 73 59.0W Time 2130

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.69	29.554	20.201	
2	21.59	29.866	20.464	
3	21.56	29.932	20.522	
4	21.57	29.932	20.519	
5	21.55	29.927	20.521	
6	21.53	30.009	20.588	
7	21.53	30.024	20.600	
8	21.49	30.282	20.805	
9	21.39	30.355	20.888	



Sta 33 Depth 18 M Date 8/14/89
Lat 40 13.0N Lon 73 57.9W Time 2336

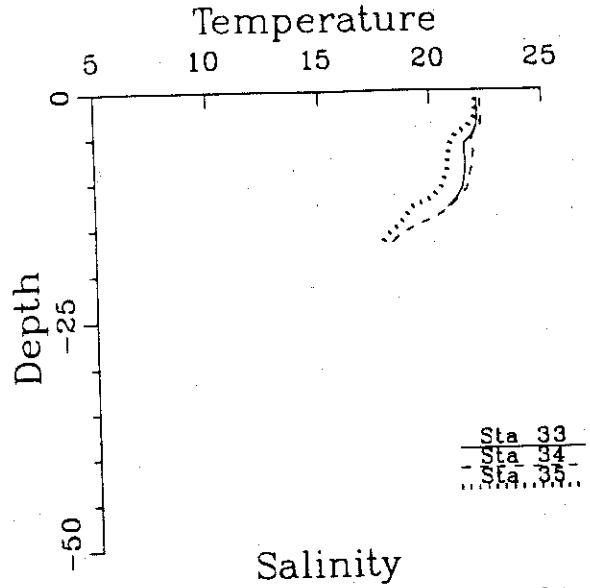
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.13	28.941	19.619	
2	22.13	28.939	19.618	
3	22.14	28.929	19.607	
4	22.11	29.074	19.725	
5	21.91	29.546	20.136	
6	21.52	30.017	20.597	
7	21.52	30.099	20.659	
8	21.55	30.198	20.726	
9	21.53	30.271	20.786	
10	21.48	30.324	20.840	
11	21.39	30.368	20.897	
12	21.13	30.445	21.025	
13	20.72	30.566	21.225	

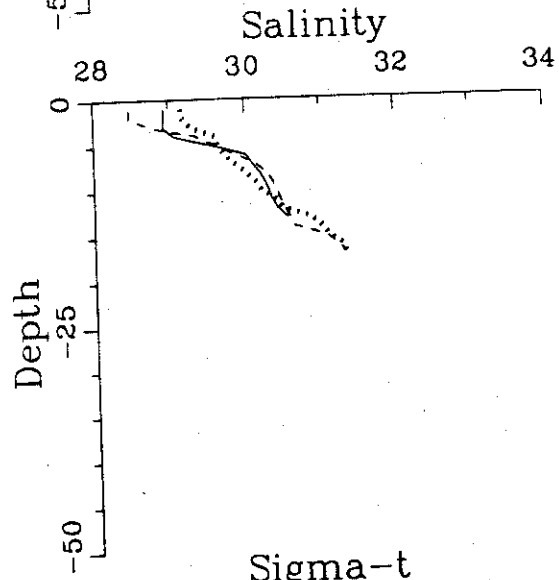
Sta 34 Depth 22 M Date 8/15/89
Lat 40 13.0N Lon 73 56.0W Time 0

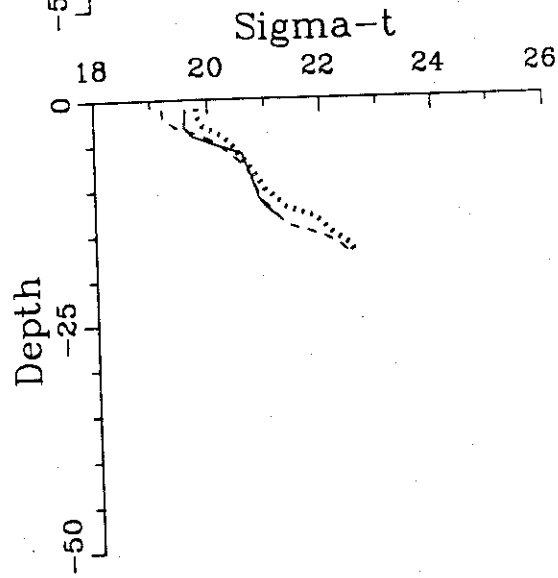
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.30	28.477	19.223	
2	22.30	28.476	19.222	
3	22.30	28.775	19.447	
4	22.26	29.367	19.905	
5	21.90	29.618	20.193	
6	21.87	29.863	20.386	
7	21.93	30.135	20.575	
8	21.85	30.294	20.717	
9	21.78	30.372	20.795	
10	21.70	30.430	20.861	
11	21.61	30.473	20.918	
12	21.22	30.537	21.071	
13	20.84	30.603	21.222	
14	20.26	30.660	21.416	
15	19.30	31.072	21.974	
16	18.52	31.248	22.301	
17	18.07	31.334	22.476	

Sta 35 Depth 22 M Date 8/15/89
Lat 40 13.0N Lon 73 53.9W Time 24

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.05	29.160	19.806	
2	22.03	29.182	19.828	
3	21.98	29.289	19.923	
4	21.72	29.612	20.237	
5	21.13	29.648	20.422	
6	20.89	29.717	20.538	
7	20.79	29.853	20.667	
8	20.76	30.015	20.797	
9	20.73	30.138	20.898	
10	20.56	30.218	21.003	
11	20.39	30.417	21.198	
12	20.00	30.515	21.373	
13	19.13	30.875	21.867	
14	18.80	31.024	22.062	
15	18.47	31.114	22.212	
16	17.95	31.290	22.471	
17	17.69	31.340	22.572	







Sta 36 Depth 22 M Date 8/15/89
Lat 40 13.0N Lon 73 52.0W Time 212

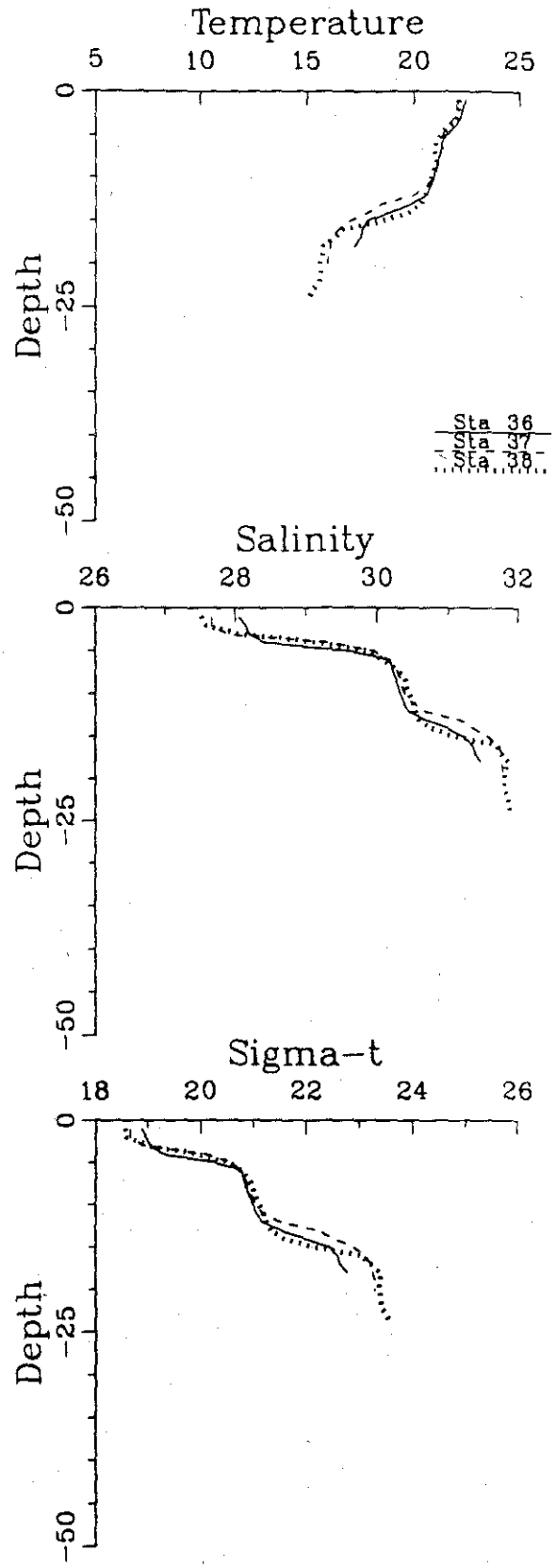
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.42	28.065	18.879	
2	22.29	28.149	18.978	
3	22.19	28.206	19.048	
4	21.92	28.410	19.275	
5	21.49	29.558	20.258	
6	21.28	30.199	20.799	
7	21.26	30.204	20.808	
8	21.13	30.248	20.876	
9	21.05	30.296	20.934	
10	20.94	30.328	20.987	
11	20.78	30.375	21.065	
12	20.58	30.443	21.169	
13	19.93	30.667	21.507	
14	18.89	30.984	22.009	
15	17.83	31.207	22.437	
16	17.60	31.338	22.591	
17	17.48	31.377	22.649	
18	17.21	31.460	22.776	

Sta 37 Depth 24 M Date 8/15/89
Lat 40 13.0N Lon 73 50.0W Time 236

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.00	27.656	18.685	
3	21.88	27.903	18.903	
5	21.34	29.955	20.598	
7	21.26	30.268	20.856	
10	20.86	30.389	21.054	
12	20.00	30.666	21.488	
15	16.99	31.556	22.901	
17	16.16	31.756	23.243	
20	15.95	31.766	23.297	

Sta 38 Depth 30 M Date 8/15/89
Lat 40 13.0N Lon 73 48.0W Time 430

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.06	27.511	18.559	
3	22.02	28.082	19.001	
5	21.24	29.862	20.555	
7	20.96	30.240	20.915	
10	20.80	30.439	21.108	
12	20.52	30.526	21.247	
15	18.49	31.081	22.182	
17	16.23	31.738	23.213	
20	15.64	31.791	23.385	
22	15.58	31.830	23.428	
24	15.07	31.894	23.588	



Sta 39 Depth 56 M Date 8/15/89
Lat 40 13.0N Lon 73 45.9W Time 500

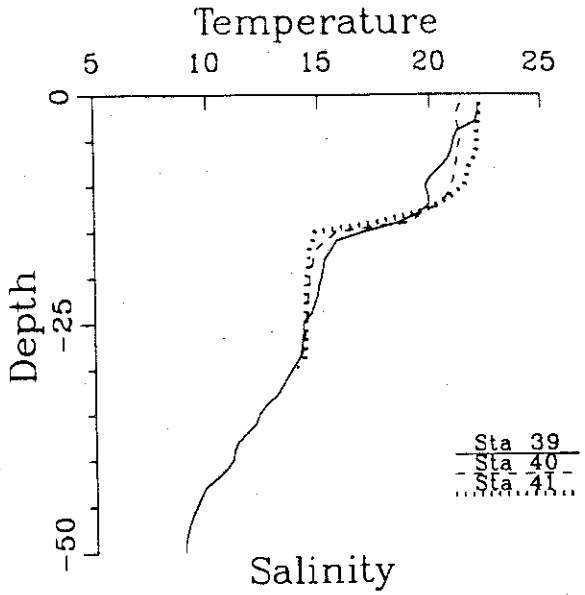
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.19	27.284	18.353	
3	22.03	27.830	18.808	
5	21.07	30.321	20.947	
7	20.80	30.371	21.056	
10	19.78	31.016	21.810	
12	19.94	31.247	21.944	
15	17.08	31.601	22.914	
17	15.52	31.829	23.441	
20	15.08	31.894	23.586	
22	14.93	31.895	23.619	
25	14.28	31.982	23.822	
27	14.22	31.990	23.841	
30	13.81	32.099	24.009	
32	13.32	32.138	24.137	
35	12.28	32.259	24.432	
40	11.08	32.412	24.770	
45	9.45	32.642	25.224	
50	8.93	32.714	25.363	
52	8.83	32.724	25.386	

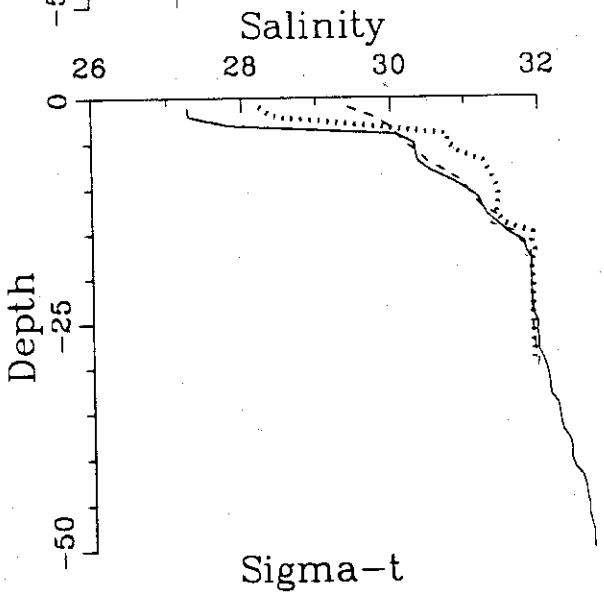
Sta 40 Depth 35 M Date 8/15/89
Lat 40 13.0N Lon 73 44.0W Time 706

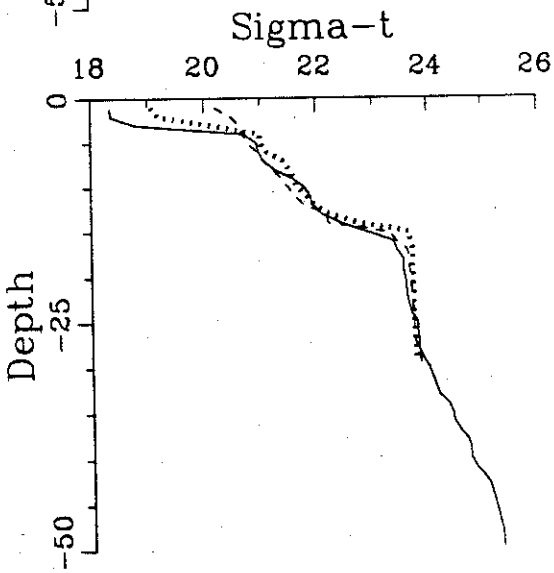
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.37	29.436	20.198	
3	21.23	29.957	20.629	
5	21.35	30.206	20.786	
7	21.20	30.503	21.050	
10	20.96	31.039	21.520	
12	20.45	31.240	21.807	
15	15.76	31.712	23.298	
17	14.85	31.885	23.628	
20	14.58	31.900	23.697	
22	14.51	31.902	23.713	
25	14.39	31.912	23.746	
27	14.32	31.927	23.772	
30	14.00	31.984	23.882	

Sta 41 Depth 34 M Date 8/15/89
Lat 40 13.0N Lon 73 42.0W Time 730

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.23	28.236	19.060	
3	22.19	29.637	20.128	
5	22.13	30.777	21.006	
7	21.96	31.260	21.417	
10	21.54	31.458	21.682	
12	20.37	31.443	21.982	
15	14.82	31.918	23.660	
17	14.57	31.942	23.731	
20	14.42	31.914	23.741	
22	14.41	31.914	23.743	
25	14.38	31.913	23.748	
27	14.35	31.923	23.762	
29	14.33	31.933	23.774	







Sta 42 Depth 35 M Date 8/15/89
Lat 40 13.0N Lon 73 40.0W Time 800

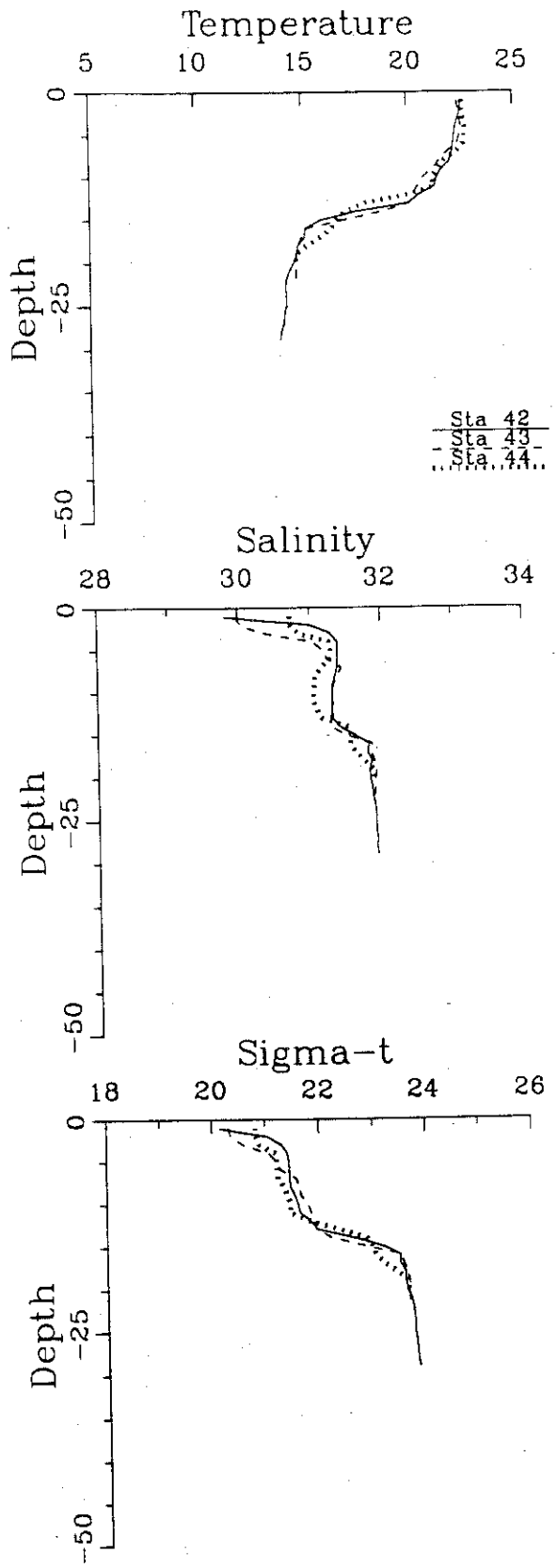
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.56	29.804	20.152	
3	22.45	31.295	21.308	
5	22.24	31.386	21.435	
7	22.12	31.377	21.462	
10	21.39	31.314	21.613	
12	20.53	31.313	21.841	
15	15.90	31.618	23.195	
17	15.08	31.806	23.518	
20	14.57	31.837	23.650	
22	14.23	31.871	23.747	
25	14.23	31.918	23.783	
27	14.11	31.934	23.821	
29	13.95	31.944	23.861	

Sta 43 Depth 27 M Date 8/15/89
Lat 40 16.0N Lon 73 40.0W Time 1006

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.39	29.976	20.329	
3	22.52	30.381	20.599	
5	22.49	31.191	21.219	
7	21.87	31.440	21.578	
10	20.71	31.309	21.791	
12	20.24	31.320	21.922	
15	16.91	31.490	22.869	
17	14.94	31.858	23.588	
20	14.68	31.912	23.685	
22	14.68	31.898	23.674	

Sta 44 Depth 26 M Date 8/15/89
Lat 40 16.0N Lon 73 36.0W Time 1212

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.61	30.725	20.833	
3	22.68	30.846	20.905	
5	22.72	31.289	21.228	
7	22.32	31.164	21.245	
10	21.15	31.048	21.476	
12	20.05	31.096	21.801	
15	16.59	31.565	22.999	
17	15.86	31.632	23.215	
20	14.66	31.894	23.675	



Sta 45 Depth 24 M Date 8/15/89
Lat 40 19.0N Lon 73 40.0W Time 1618

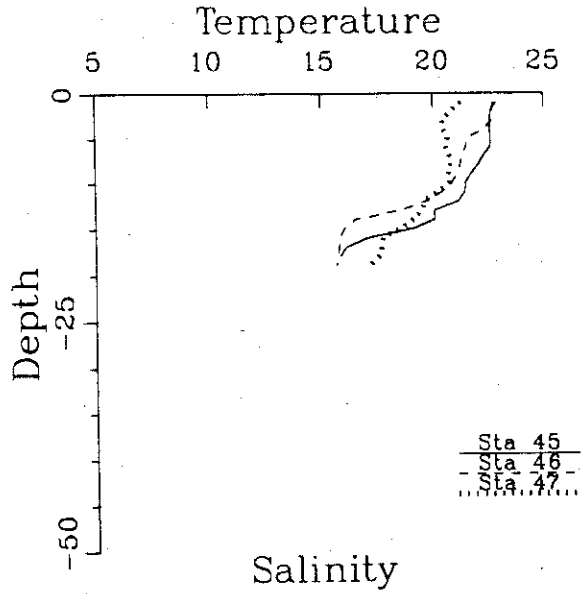
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.85	30.406	20.525	
2	22.59	30.664	20.793	
3	22.57	30.925	20.995	
4	22.56	30.859	20.948	
5	22.59	30.913	20.981	
6	22.57	31.092	21.122	
7	22.24	31.226	21.314	
8	22.00	31.228	21.382	
9	21.70	31.144	21.401	
10	21.44	31.094	21.433	
11	21.42	31.087	21.433	
12	21.12	31.031	21.471	
13	20.04	31.137	21.835	
14	20.05	31.030	21.751	
15	19.15	31.287	22.175	
16	17.09	31.553	22.875	
17	16.09	31.835	23.319	
18	15.85	31.814	23.356	

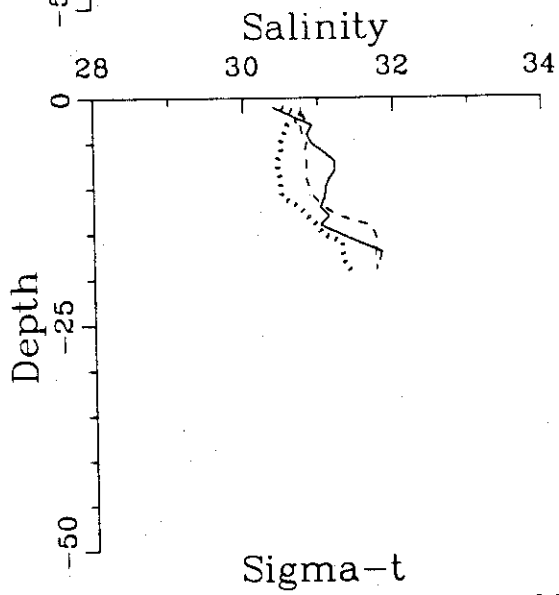
Sta 46 Depth 25 M Date 8/15/89
Lat 40 22.0N Lon 73 40.0W Time 1648

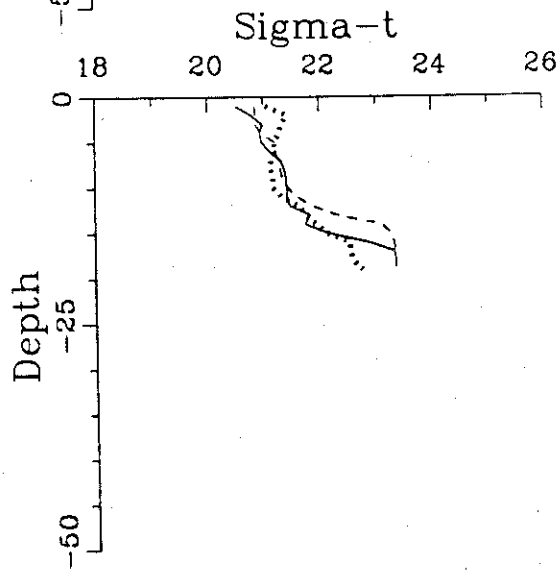
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.69	30.776	20.849	
2	22.64	30.785	20.870	
3	22.63	30.770	20.862	
4	22.33	30.800	20.968	
5	21.52	30.856	21.231	
6	21.46	30.827	21.226	
7	21.30	30.843	21.281	
8	21.21	30.846	21.307	
9	21.08	30.849	21.344	
10	20.84	30.888	21.437	
11	20.40	30.949	21.599	
12	19.68	31.072	21.878	
13	18.51	31.252	22.307	
14	16.50	31.681	23.109	
15	16.01	31.755	23.276	
16	15.83	31.777	23.333	
17	15.79	31.760	23.328	
18	15.72	31.768	23.350	
19	15.67	31.772	23.364	

Sta 47 Depth 25 M Date 8/15/89
Lat 40 25.0N Lon 73 40.1W Time 1836

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.25	30.526	21.054	
2	20.79	30.845	21.418	
3	20.43	30.594	21.322	
4	20.46	30.546	21.278	
5	20.66	30.500	21.191	
6	20.57	30.510	21.222	
7	20.72	30.456	21.142	
8	20.77	30.463	21.134	
9	20.68	30.491	21.179	
10	20.70	30.500	21.180	
11	20.19	30.522	21.330	
12	19.62	30.736	21.638	
13	19.47	30.837	21.753	
14	19.10	30.964	21.942	
15	18.56	31.057	22.146	
16	17.72	31.315	22.545	
17	17.68	31.319	22.558	
18	17.57	31.333	22.595	
19	17.15	31.424	22.763	







Sta 48 Depth 24 M Date 8/15/89
Lat 40 28.0N Lon 73 40.1W Time 1906

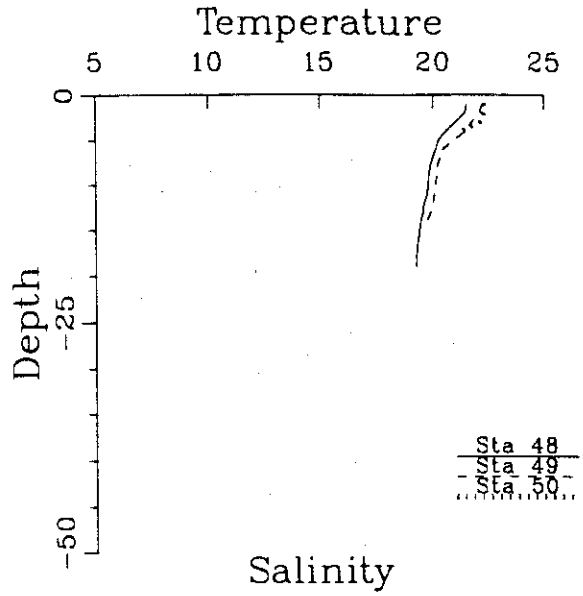
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.50	30.531	20.991	
2	21.43	30.578	21.045	
3	21.00	30.675	21.234	
4	20.57	30.666	21.340	
5	20.23	30.729	21.476	
6	20.11	30.761	21.532	
7	19.97	30.782	21.584	
8	19.85	30.793	21.623	
9	19.79	30.801	21.644	
10	19.76	30.806	21.656	
11	19.73	30.811	21.667	
12	19.61	30.836	21.716	
13	19.55	30.854	21.745	
14	19.46	30.870	21.780	
15	19.39	30.892	21.815	
16	19.33	30.896	21.833	
17	19.27	30.902	21.852	
18	19.26	30.903	21.856	
19	19.25	30.904	21.859	

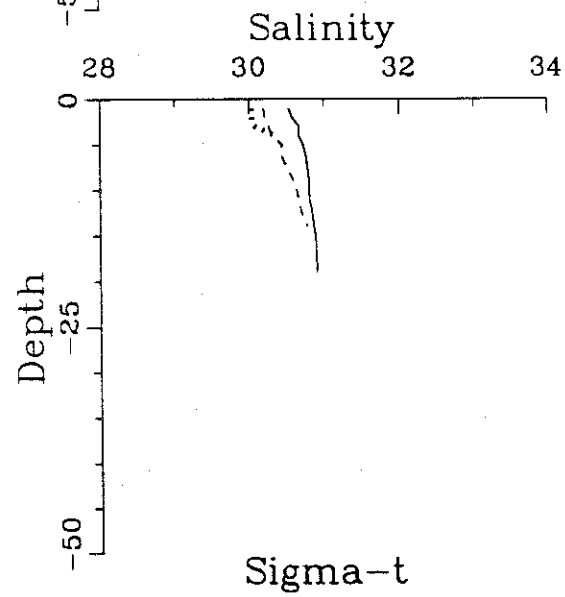
Sta 49 Depth 19 M Date 8/15/89
Lat 40 31.0N Lon 73 40.0W Time 2106

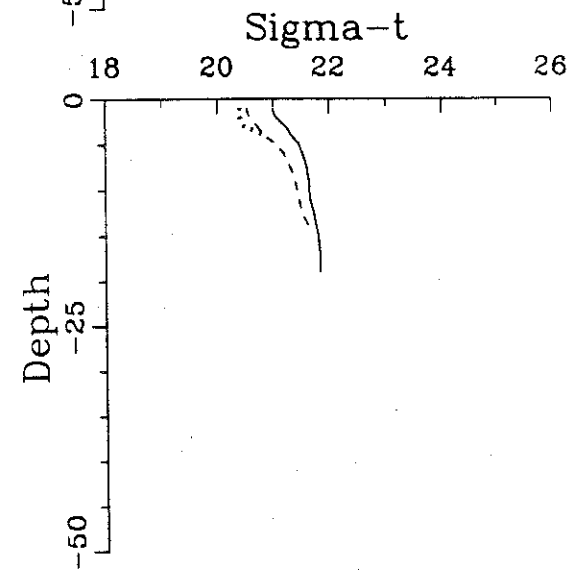
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.25	30.190	20.529	
2	22.09	30.209	20.587	
3	21.74	30.263	20.724	
4	21.48	30.302	20.823	
5	20.94	30.439	21.071	
6	20.42	30.423	21.195	
7	20.30	30.478	21.268	
8	20.17	30.541	21.349	
9	20.14	30.593	21.397	
10	20.11	30.642	21.441	
11	20.05	30.671	21.479	
12	20.00	30.688	21.505	
13	19.90	30.728	21.561	
14	19.71	30.788	21.655	

Sta 50 Depth 10 M Date 8/15/89
Lat 40 34.0N Lon 73 40.0W Time 2318

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.30	30.035	20.398	
2	22.28	30.037	20.405	
3	22.11	30.078	20.483	
4	21.36	30.343	20.886	







Sta 51 Depth 9 M Date 8/16/89
Lat 40 34.0N Lon 73 36.0W Time 142

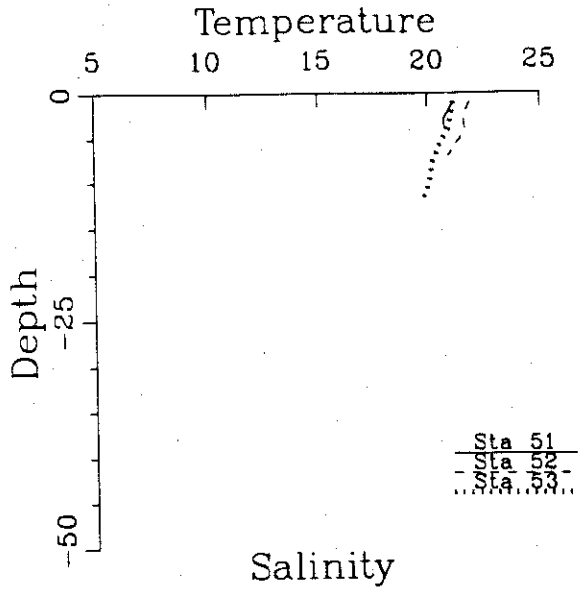
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.18	30.251	20.865	
2	20.95	30.395	21.035	
3	20.72	30.572	21.230	
4	20.82	30.440	21.103	

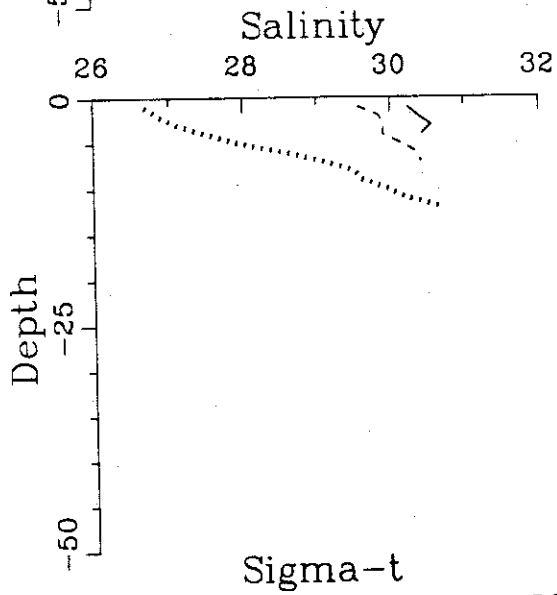
Sta 52 Depth 12 M Date 8/16/89
Lat 40 34.0N Lon 73 45.9W Time 354

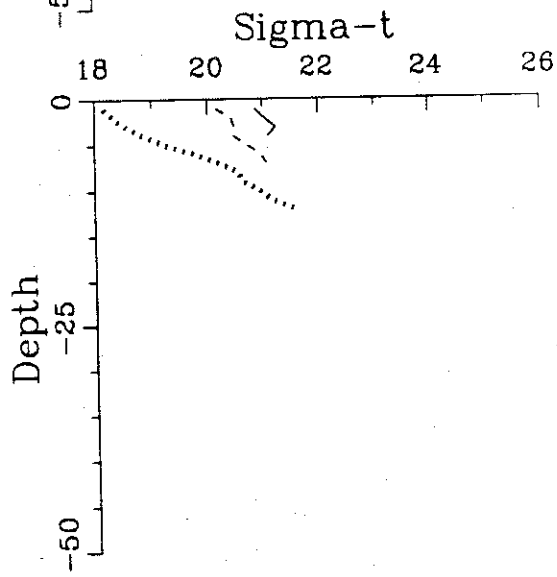
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.90	29.566	20.154	
2	21.72	29.856	20.421	
3	21.64	29.915	20.488	
4	21.66	29.898	20.469	
5	21.47	30.159	20.718	
6	21.15	30.388	20.977	
7	20.92	30.432	21.071	

Sta 53 Depth 17 M Date 8/16/89
Lat 40 28.0N Lon 73 53.9W Time 554

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.17	26.680	18.168	
2	21.10	26.861	18.323	
3	21.02	27.128	18.546	
4	20.93	27.522	18.867	
5	20.69	27.950	19.253	
6	20.48	28.577	19.781	
7	20.33	29.080	20.201	
8	20.15	29.492	20.559	
9	20.14	29.598	20.642	
10	20.03	29.972	20.954	
11	19.95	30.222	21.164	
12	19.68	30.665	21.569	







Sta 54 Depth 12 M Date 8/16/89
Lat 40 28.0N Lon 73 56.0W Time 700

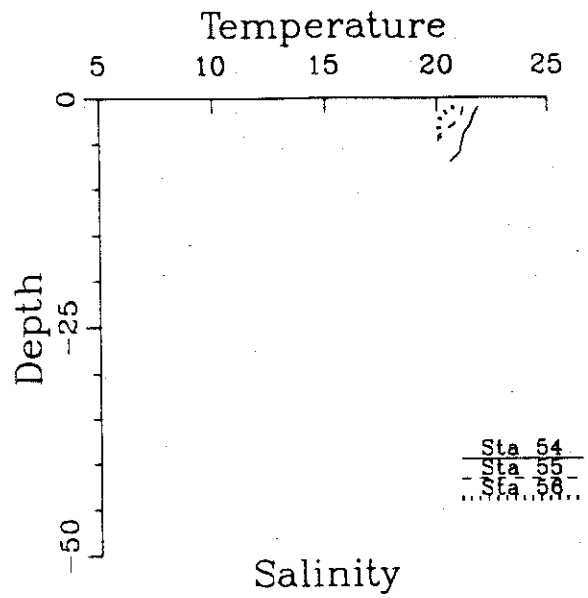
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.88	25.116	16.802	
2	21.64	25.712	17.314	
3	21.49	26.140	17.677	
4	21.21	26.841	18.279	
5	21.09	27.150	18.544	
6	21.04	27.287	18.661	
7	20.59	28.382	19.605	

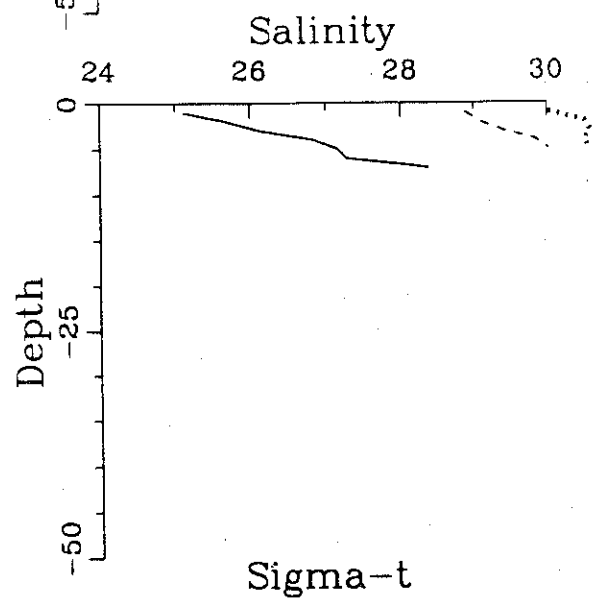
Sta 55 Depth 10 M Date 8/16/89
Lat 40 31.0N Lon 73 56.1W Time 948

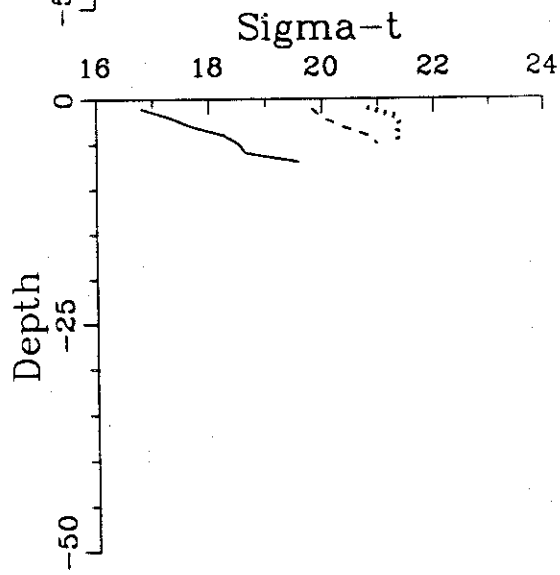
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.19	28.891	19.834	
2	21.10	29.076	19.997	
3	20.72	29.380	20.327	
4	20.16	29.838	20.819	
5	20.01	30.011	20.989	

Sta 56 Depth 11 M Date 8/16/89
Lat 40 31.0N Lon 73 54.0W Time 1118

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.74	30.032	20.815	
2	20.16	30.506	21.325	
3	20.07	30.585	21.409	
4	20.16	30.501	21.322	
5	20.04	30.566	21.402	







Sta 57 Depth 12 M Date 8/16/89
Lat 40 31.0N Lon 73 52.0W Time 1348

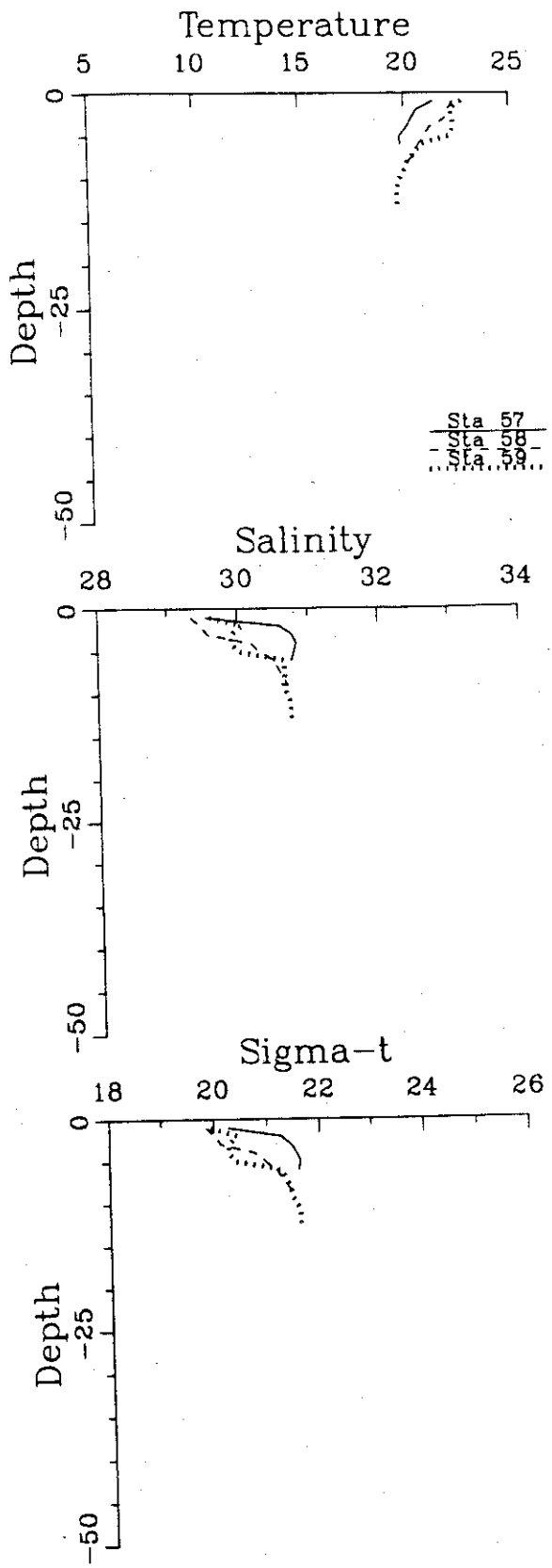
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.42	29.558	20.277	
2	20.61	30.603	21.282	
3	20.37	30.774	21.474	
4	20.16	30.834	21.574	
5	19.80	30.802	21.642	
6	19.82	30.766	21.610	

Sta 58 Depth 15 M Date 8/16/89
Lat 40 31.0N Lon 73 50.0W Time 1648

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.35	29.349	19.867	
2	22.14	29.487	20.028	
3	21.97	29.578	20.144	
4	21.25	30.175	20.789	
5	21.00	30.319	20.964	
6	20.69	30.516	21.195	
7	20.55	30.579	21.280	
8	20.23	30.657	21.422	
9	19.92	30.707	21.540	

Sta 59 Depth 18 M Date 8/16/89
Lat 40 31.0N Lon 73 47.9W Time 1812

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.76	29.614	19.953	
2	22.21	30.066	20.446	
3	22.35	29.913	20.292	
4	22.36	29.910	20.287	
5	22.20	30.027	20.420	
6	20.80	30.657	21.273	
7	20.49	30.667	21.362	
8	20.16	30.667	21.448	
9	20.00	30.645	21.472	
10	19.77	30.703	21.575	
11	19.67	30.749	21.635	
12	19.66	30.748	21.637	
13	19.65	30.748	21.640	



Sta 60 Depth 21 M Date 8/16/89
Lat 40 31.0N Lon 73 46.1W Time 1848

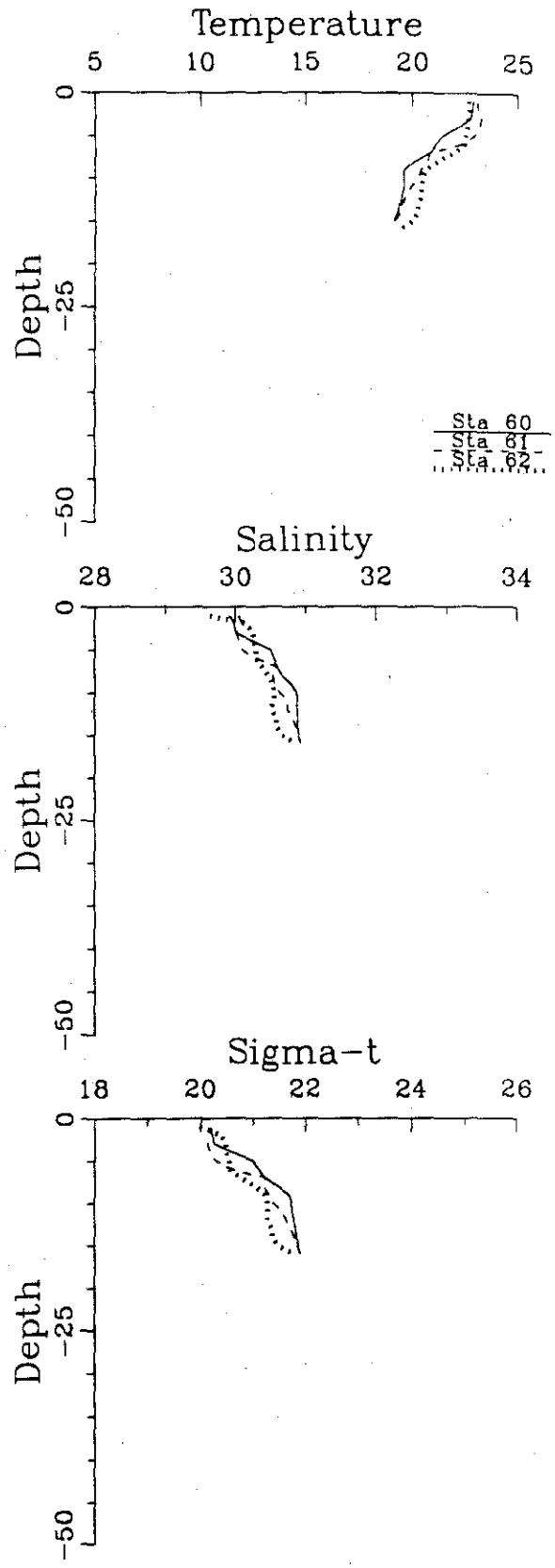
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.88	29.917	20.148	
2	22.82	30.000	20.228	
3	22.72	30.007	20.261	
4	22.18	30.260	20.601	
5	21.41	30.505	20.996	
6	21.06	30.550	21.123	
7	20.86	30.609	21.221	
8	20.09	30.678	21.474	
9	19.61	30.800	21.689	
10	19.59	30.869	21.747	
11	19.60	30.893	21.762	
12	19.50	30.888	21.784	
13	19.41	30.897	21.813	
14	19.31	30.890	21.833	
15	19.15	30.911	21.889	

Sta 61 Depth 21 M Date 8/16/89
Lat 40 31.0N Lon 73 44.0W Time 2100

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.07	30.051	20.196	
2	23.07	30.086	20.222	
3	23.22	30.028	20.136	
4	23.14	30.061	20.184	
5	22.92	30.110	20.282	
6	22.32	30.291	20.586	
7	20.79	30.609	21.239	
8	20.69	30.542	21.215	
9	20.40	30.561	21.305	
10	20.25	30.629	21.395	
11	19.91	30.747	21.572	
12	19.65	30.755	21.645	
13	19.52	30.814	21.723	
14	19.42	30.867	21.788	
15	19.20	30.893	21.863	
16	19.14	30.938	21.912	

Sta 62 Depth 15 M Date 8/16/89
Lat 40 31.0N Lon 73 42.0W Time 2124

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.66	29.635	19.997	
2	22.65	30.163	20.398	
3	22.59	30.261	20.489	
4	22.60	30.264	20.488	
5	22.51	30.298	20.539	
6	22.44	30.287	20.550	
7	21.97	30.386	20.754	
8	21.15	30.474	21.042	
9	20.63	30.534	21.224	
10	20.45	30.559	21.290	
11	20.40	30.545	21.293	
12	20.37	30.525	21.285	
13	20.27	30.589	21.360	
14	20.21	30.586	21.373	
15	20.00	30.660	21.483	
16	19.38	30.881	21.809	



Sta 63 Depth 11 M Date 8/17/89
Lat 40 34.0N Lon 73 48.0W Time 1354

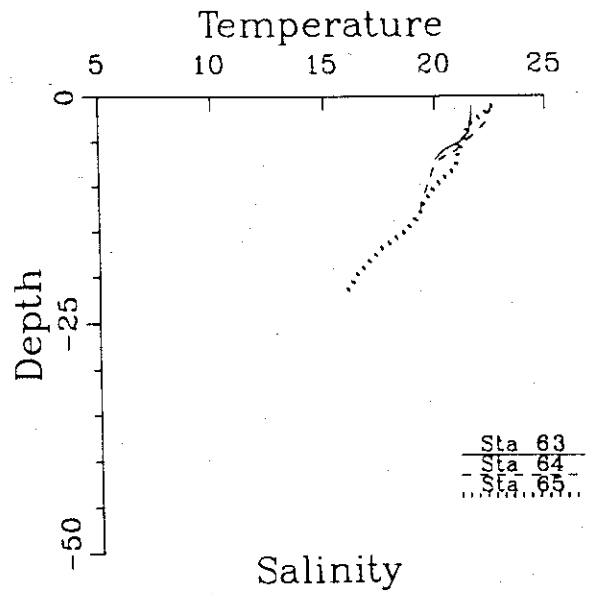
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.69	28.786	19.621	
2	21.70	29.969	20.512	
3	21.62	30.211	20.717	
4	21.55	30.230	20.750	
5	21.19	30.396	20.972	
6	20.34	30.671	21.404	
7	20.00	30.608	21.444	

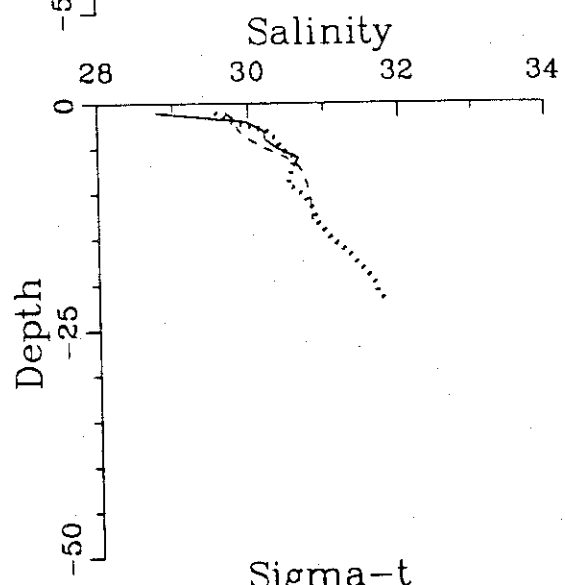
Sta 64 Depth 19 M Date 8/17/89
Lat 40 31.0N Lon 73 48.0W Time 1530

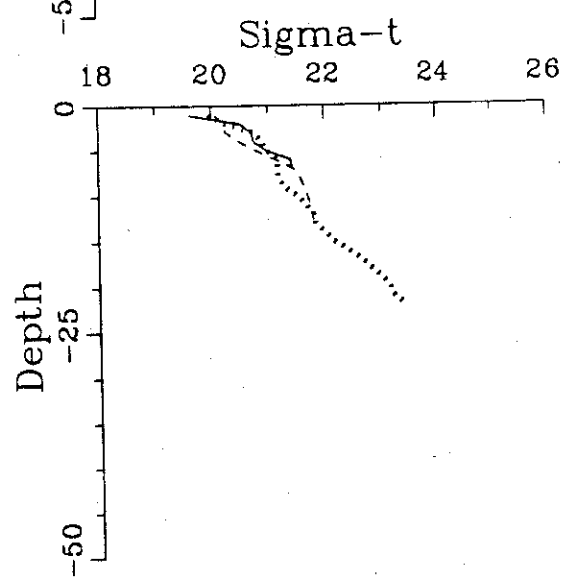
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.62	29.714	20.068	
2	22.50	29.845	20.200	
3	22.31	29.870	20.271	
4	21.94	30.020	20.486	
5	21.41	30.236	20.792	
6	20.94	30.515	21.128	
7	20.20	30.680	21.447	
8	19.90	30.744	21.573	
9	19.77	30.789	21.640	
10	19.59	30.811	21.703	
11	19.43	30.828	21.756	
12	19.34	30.833	21.782	
13	19.27	30.855	21.817	

Sta 65 Depth 27 M Date 8/17/89
Lat 40 28.0N Lon 73 48.0W Time 1600

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.63	29.574	19.959	
3	21.62	30.243	20.741	
5	21.31	30.439	20.972	
7	21.01	30.590	21.167	
10	19.96	30.709	21.531	
12	19.37	30.878	21.809	
15	18.56	31.090	22.171	
17	17.47	31.376	22.651	
20	16.35	31.688	23.148	
22	15.74	31.820	23.385	

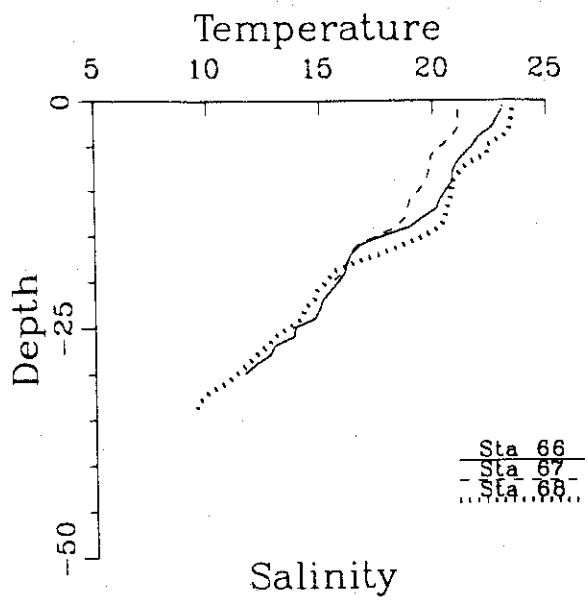






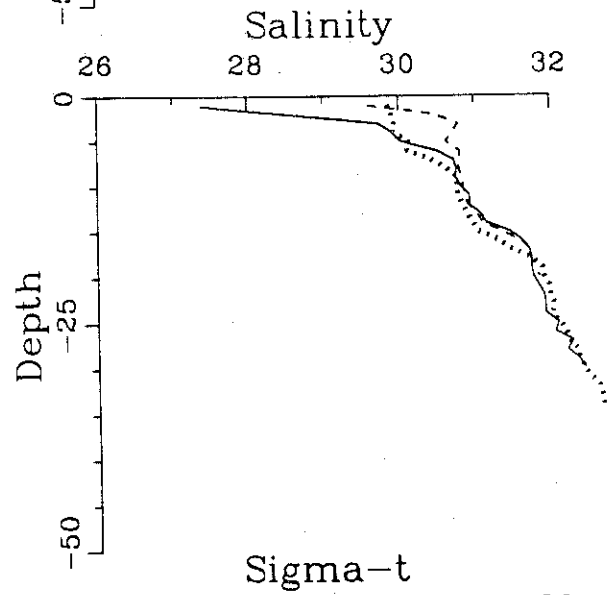
Sta 66 Depth 34 M Date 8/17/89
Lat 40 25.0N Lon 73 48.0W Time 1718

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.06	27.389	18.193	
3	22.60	29.733	20.087	
5	21.73	30.020	20.543	
7	21.01	30.732	21.274	
10	20.56	30.825	21.463	
12	20.12	30.939	21.664	
15	17.78	31.469	22.649	
17	16.33	31.728	23.183	
20	15.78	31.776	23.343	
22	15.08	31.913	23.600	
25	13.88	32.106	24.000	
27	12.97	32.298	24.330	
30	11.61	32.476	24.724	



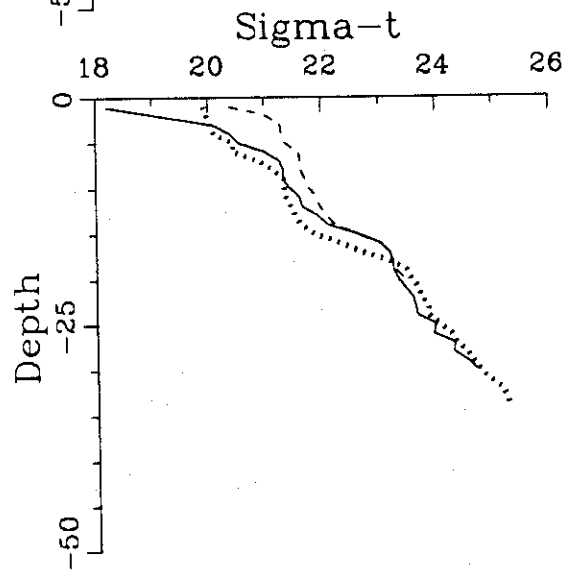
Sta 67 Depth 24 M Date 8/17/89
Lat 40 25.0N Lon 73 42.0W Time 1836

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.12	29.600	20.388	
3	21.12	30.790	21.289	
5	20.37	30.630	21.365	
7	19.85	30.809	21.635	
10	19.35	30.857	21.798	
12	18.81	30.919	21.980	
15	17.56	31.347	22.608	
17	16.27	31.718	23.189	
20	15.55	31.853	23.452	



Sta 68 Depth 38 M Date 8/17/89
Lat 40 22.0N Lon 73 48.0W Time 2042

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.51	29.854	19.922	
3	23.38	29.939	20.024	
5	22.37	30.130	20.451	
7	21.50	30.427	20.912	
10	20.81	30.772	21.357	
12	20.58	30.846	21.474	
15	19.62	31.058	21.883	
17	17.69	31.494	22.689	
20	15.22	31.910	23.568	
22	14.70	31.994	23.744	
25	13.62	32.110	24.056	
27	12.64	32.242	24.350	
30	11.25	32.456	24.774	
32	10.02	32.668	25.151	
34	9.46	32.716	25.280	



Sta 69 Depth 47 M Date 8/17/89
Lat 40 19.0N Lon 73 48.0W Time 2206

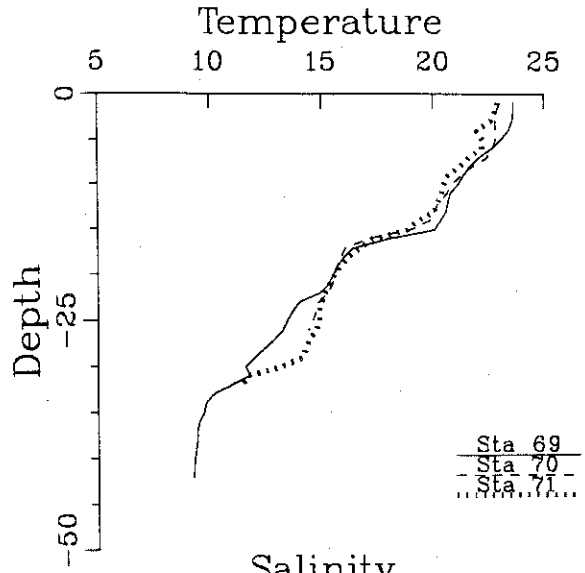
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.61	29.830	19.876	
3	23.56	29.830	19.890	
5	23.05	29.762	19.984	
7	22.04	30.480	20.806	
10	21.11	30.861	21.345	
12	20.66	30.923	21.511	
15	20.06	31.149	21.839	
17	16.42	31.737	23.170	
20	15.49	31.895	23.498	
22	14.88	31.956	23.676	
25	13.46	32.191	24.150	
27	12.91	32.209	24.273	
30	11.59	32.409	24.676	
33	10.19	32.650	25.109	
35	9.75	32.644	25.177	
40	9.33	32.671	25.266	
42	9.25	32.662	25.272	

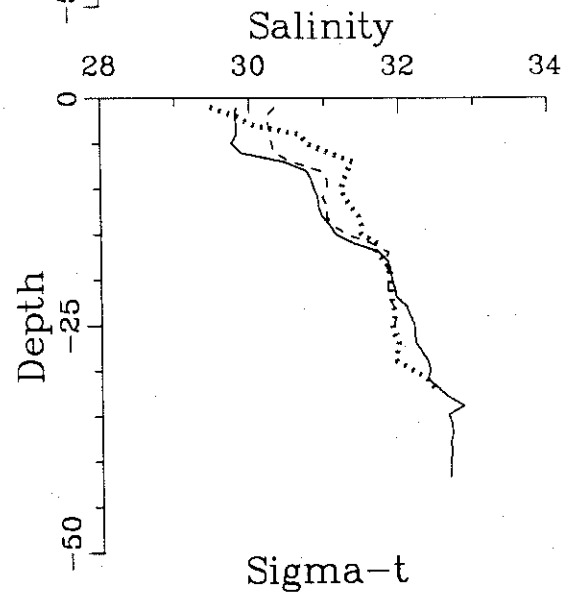
Sta 70 Depth 32 M Date 8/17/89
Lat 40 19.0N Lon 73 46.0W Time 2236

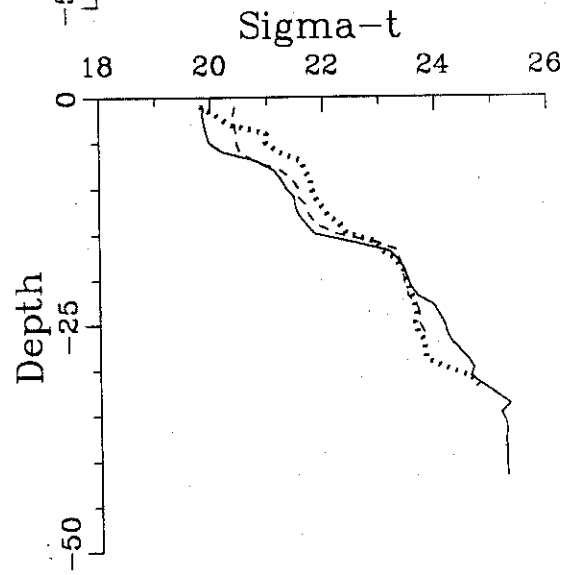
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.99	30.336	20.433	
3	22.78	30.258	20.433	
5	22.79	30.300	20.462	
7	22.41	30.565	20.768	
10	20.82	31.033	21.553	
12	20.24	31.040	21.710	
15	18.93	31.294	22.235	
17	16.05	31.857	23.345	
20	15.58	31.835	23.432	
22	15.26	31.843	23.508	
25	14.60	31.922	23.709	
26	14.41	31.977	23.791	

Sta 71 Depth 37 M Date 8/18/89
Lat 40 16.0N Lon 73 48.0W Time 12

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.90	29.488	19.819	
3	22.58	30.063	20.342	
5	22.19	30.766	20.981	
7	21.57	31.377	21.612	
10	20.47	31.226	21.791	
12	20.20	31.360	21.963	
15	18.79	31.487	22.417	
17	16.72	31.688	23.064	
20	15.54	31.866	23.465	
22	15.13	31.897	23.577	
25	14.88	31.898	23.632	
27	14.42	31.979	23.791	
30	13.19	32.153	24.175	
32	11.40	32.456	24.747	

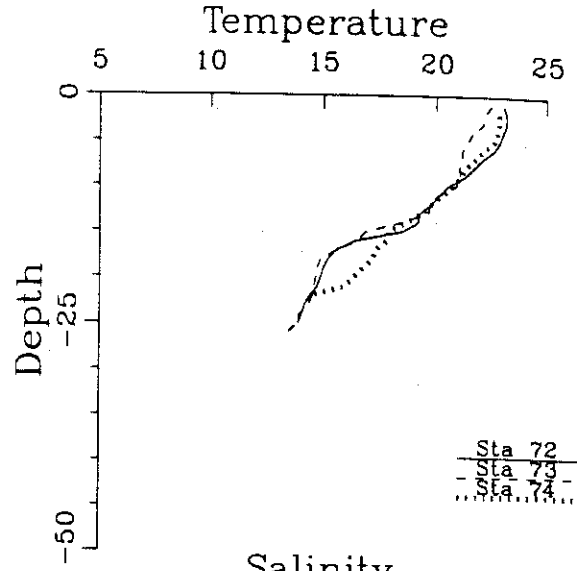






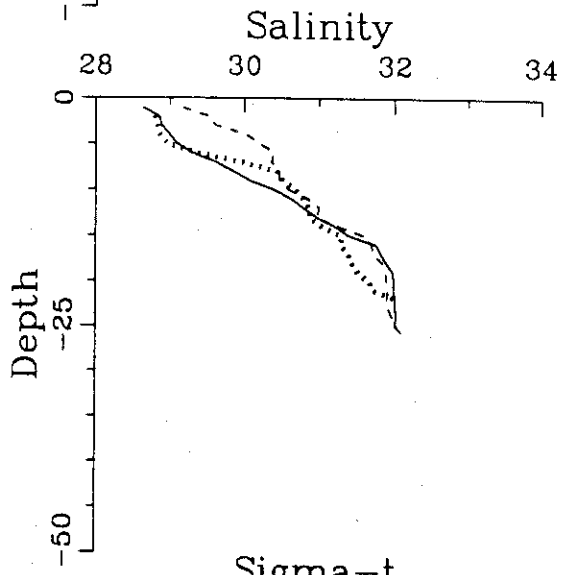
Sta 72 Depth 31 M Date 8/18/89
Lat 40 13.0N Lon 73 48.0W Time 242

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.09	28.641	19.128	
3	23.20	28.895	19.288	
5	22.89	29.100	19.529	
7	22.05	29.627	20.159	
10	20.52	30.401	21.152	
12	19.75	30.803	21.656	
15	18.45	31.410	22.442	
17	15.52	31.827	23.439	
20	14.85	31.991	23.709	
22	14.41	32.006	23.814	
25	13.88	32.002	23.920	



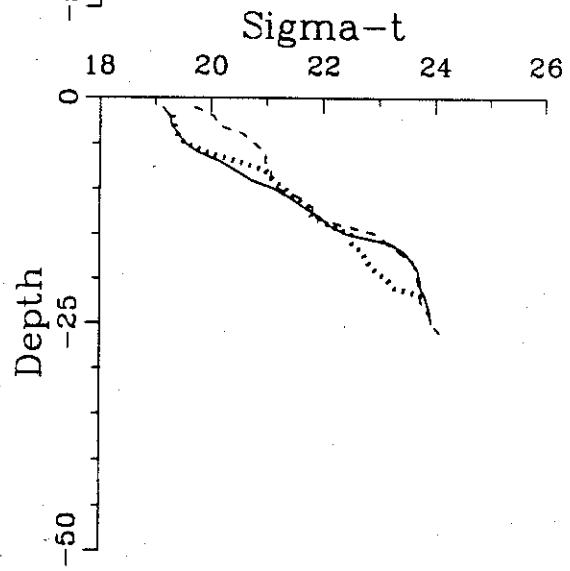
Sta 73 Depth 31 M Date 8/18/89
Lat 40 10.0N Lon 73 48.0W Time 312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.48	29.171	19.697	
3	22.13	29.622	20.133	
5	21.40	30.219	20.782	
7	21.15	30.374	20.966	
10	20.89	30.607	21.211	
12	19.71	31.002	21.817	
15	16.91	31.628	22.974	
17	15.60	31.741	23.356	
20	14.65	31.899	23.681	
22	14.50	31.907	23.719	
25	13.84	32.028	23.948	
26	13.49	32.113	24.084	



Sta 74 Depth 28 M Date 8/18/89
Lat 40 10.0N Lon 73 50.0W Time 348

Depth	Temp	Salinity	Sigma-t	Oxygen
2	22.84	28.793	19.312	
3	22.84	28.829	19.339	
5	22.60	28.970	19.512	
7	21.70	29.949	20.497	
10	20.64	30.683	21.335	
12	19.73	30.874	21.715	
15	17.82	31.297	22.508	
17	17.27	31.393	22.711	
20	16.35	31.672	23.136	
22	14.39	32.033	23.839	



Sta 75 Depth 18 M Date 8/18/89
Lat 40 10.0N Lon 73 54.0W Time 530

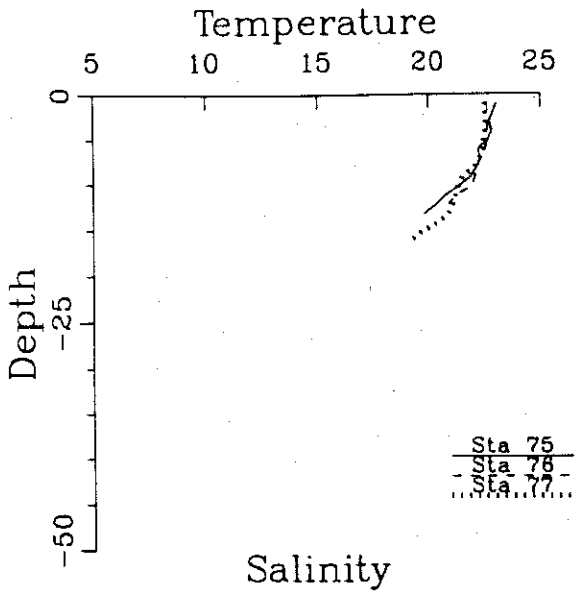
Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.05	28.626	19.127	
2	22.91	29.363	19.722	
3	22.74	29.556	19.915	
4	22.84	29.490	19.837	
5	22.67	29.565	19.941	
6	22.22	29.796	20.240	
7	22.33	29.728	20.158	
8	22.17	29.811	20.265	
9	21.94	29.913	20.405	
10	21.41	30.176	20.747	
11	20.80	30.443	21.111	
12	20.36	30.603	21.347	
13	19.81	30.752	21.602	

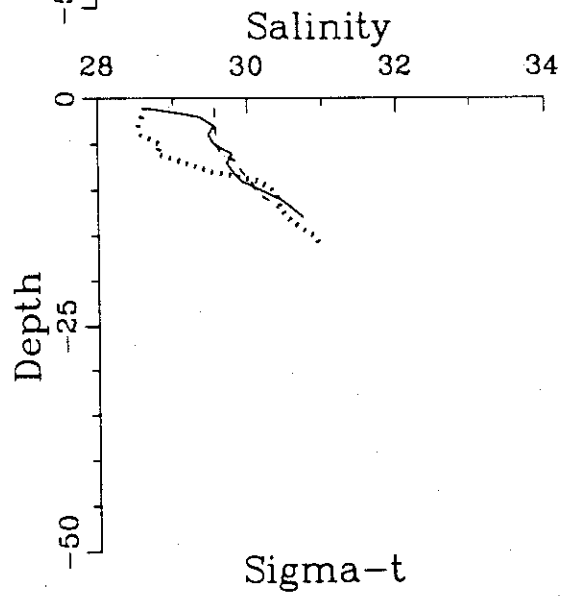
Sta 76 Depth 16 M Date 8/18/89
Lat 40 10.0N Lon 74 0.1W Time 712

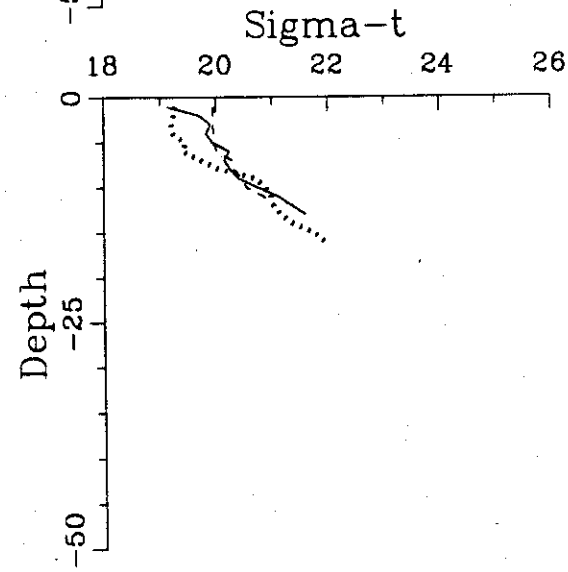
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.64	29.570	19.953	
2	22.64	29.574	19.956	
3	22.64	29.570	19.953	
4	22.64	29.587	19.966	
5	22.64	29.582	19.962	
6	22.56	29.652	20.037	
7	22.29	29.897	20.297	
8	22.27	29.922	20.321	
9	22.09	30.051	20.468	
10	21.99	30.108	20.538	
11	21.25	30.255	20.849	
12	20.91	30.425	21.068	

Sta 77 Depth 21 M Date 8/18/89
Lat 40 13.0N Lon 73 56.1W Time 924

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.52	28.625	19.274	
2	22.54	28.590	19.242	
3	22.56	28.548	19.205	
4	22.55	28.584	19.235	
5	22.48	28.843	19.449	
6	22.48	28.792	19.411	
7	22.29	29.161	19.741	
8	22.07	29.536	20.085	
9	21.53	30.161	20.703	
10	21.37	30.330	20.874	
11	21.23	30.429	20.986	
12	21.12	30.446	21.028	
13	20.92	30.530	21.145	
14	20.46	30.677	21.377	
15	19.67	30.880	21.735	
16	19.13	30.971	21.940	







Sta 78 Depth 21 M Date 8/18/89
Lat 40 16.0N Lon 73 54.0W Time 1136

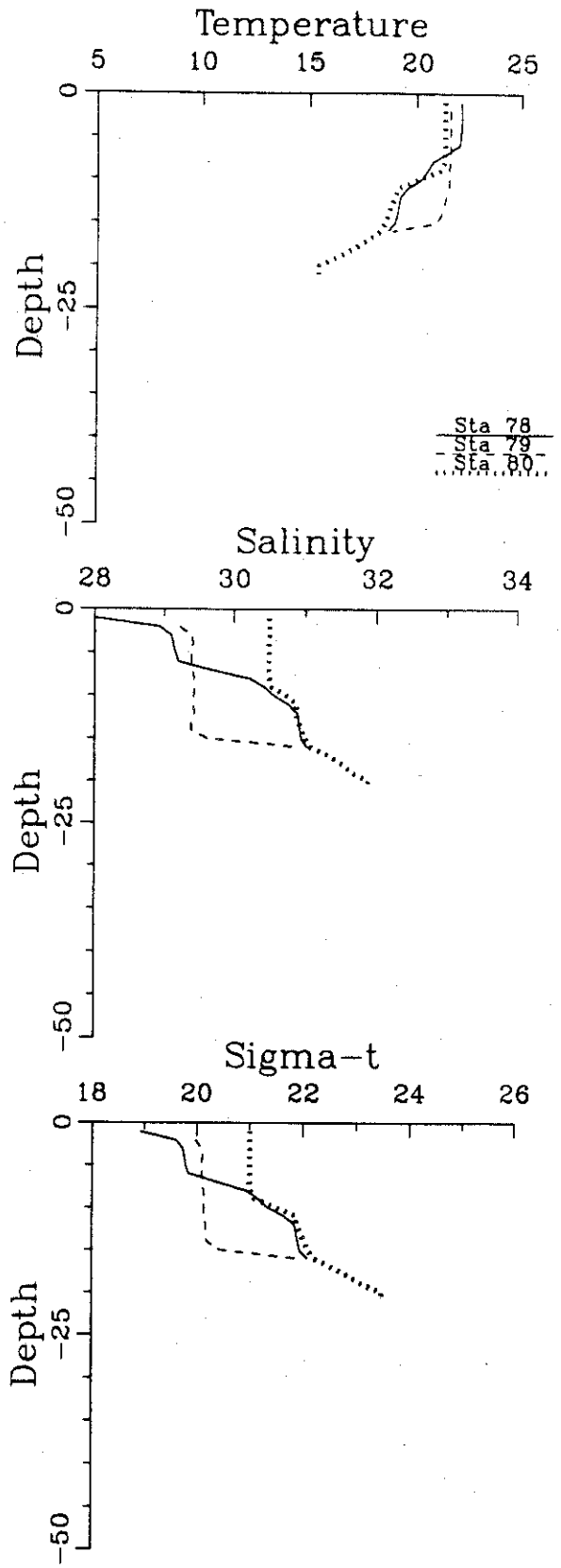
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.11	28.009	18.921	
2	22.14	28.930	19.608	
3	22.13	29.099	19.738	
5	22.08	29.158	19.796	
6	22.02	29.198	19.843	
7	21.38	29.679	20.379	
8	20.72	30.209	20.955	
9	20.49	30.417	21.172	
10	20.21	30.558	21.352	
11	19.58	30.751	21.660	
12	19.24	30.890	21.851	
13	19.15	30.903	21.883	
14	19.08	30.925	21.917	
15	18.96	30.939	21.958	
16	18.66	31.016	22.090	

Sta 79 Depth 22 M Date 8/18/89
Lat 40 19.0N Lon 73 54.0W Time 1406

Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.59	29.220	19.976	
3	21.59	29.395	20.108	
4	21.59	29.405	20.116	
5	21.58	29.385	20.103	
6	21.59	29.391	20.105	
7	21.57	29.407	20.122	
8	21.56	29.425	20.139	
9	21.53	29.433	20.153	
10	21.51	29.426	20.153	
11	21.51	29.425	20.152	
12	21.39	29.435	20.192	
13	21.30	29.395	20.186	
14	21.18	29.392	20.215	
15	20.93	29.627	20.459	
16	18.86	30.898	21.951	

Sta 80 Depth 25 M Date 8/18/89
Lat 40 22.0N Lon 73 44.0W Time 1806

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.33	30.487	21.003	
3	21.33	30.491	21.006	
5	21.33	30.484	21.001	
7	21.32	30.481	21.002	
10	20.04	30.725	21.522	
12	18.99	30.867	21.896	
15	18.50	30.979	22.101	
17	17.72	31.307	22.539	
20	15.41	31.876	23.501	
21	15.40	31.831	23.468	



Sta 81 Depth 30 M Date 8/18/89
Lat 40 16.0N Lon 73 44.0W Time 2054

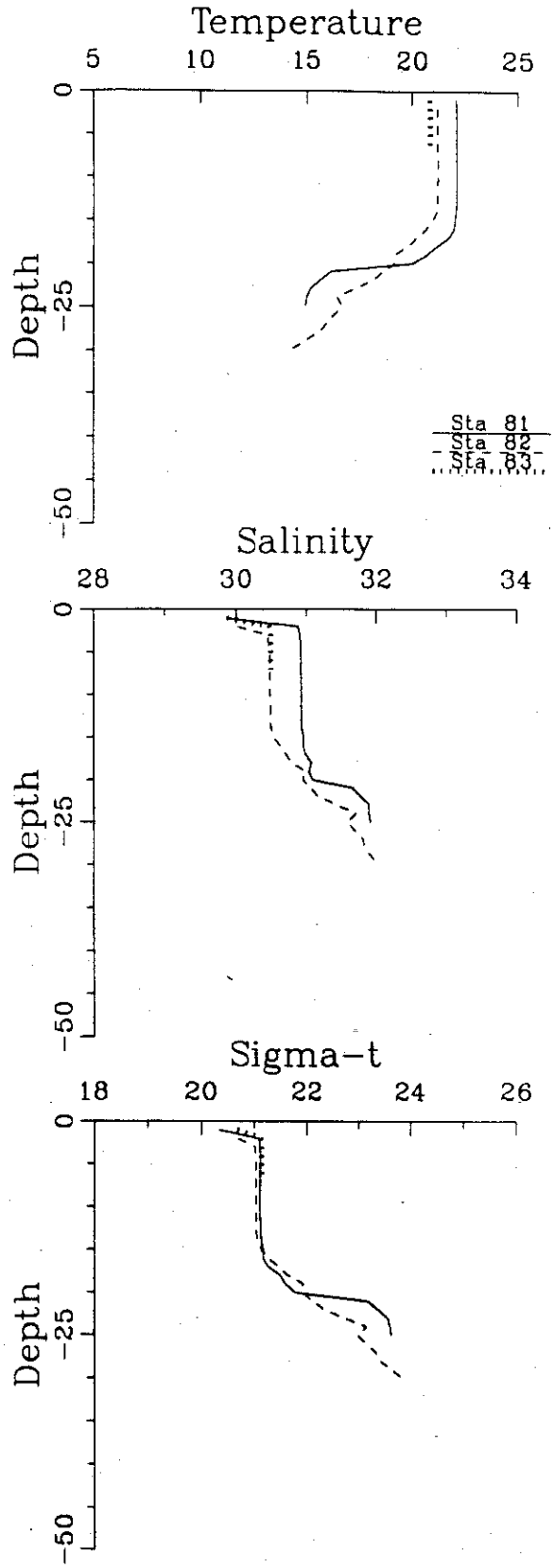
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.06	29.866	20.337	
3	22.11	30.908	21.110	
5	22.11	30.913	21.114	
7	22.11	30.920	21.119	
10	22.11	30.921	21.120	
12	22.10	30.924	21.125	
15	22.00	30.957	21.177	
17	21.74	30.987	21.271	
20	20.04	31.090	21.799	
22	15.64	31.781	23.378	
25	14.91	31.915	23.638	

Sta 82 Depth 36 M Date 8/18/89
Lat 40 25.0N Lon 73 48.0W Time 2330

Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.19	30.025	20.691	
3	21.19	30.451	21.014	
5	21.19	30.482	21.037	
7	21.19	30.484	21.039	
10	21.20	30.485	21.037	
12	21.17	30.495	21.052	
15	20.97	30.539	21.139	
18	19.79	30.787	21.634	
20	19.16	30.947	21.914	
22	18.08	31.170	22.349	
25	16.68	31.585	22.994	
27	15.94	31.815	23.337	
30	14.28	32.032	23.861	

Sta 83 Depth 12 M Date 8/19/89
Lat 40 34.0N Lon 73 42.0W Time 118

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.81	29.872	20.676	
2	20.83	30.475	21.127	
3	20.83	30.494	21.142	
4	20.83	30.494	21.142	
5	20.83	30.494	21.142	
6	20.83	30.496	21.143	
7	20.82	30.496	21.146	



Sta 84 Depth 20 M Date 8/19/89
Lat 40 31.0N Lon 73 42.0W Time 518

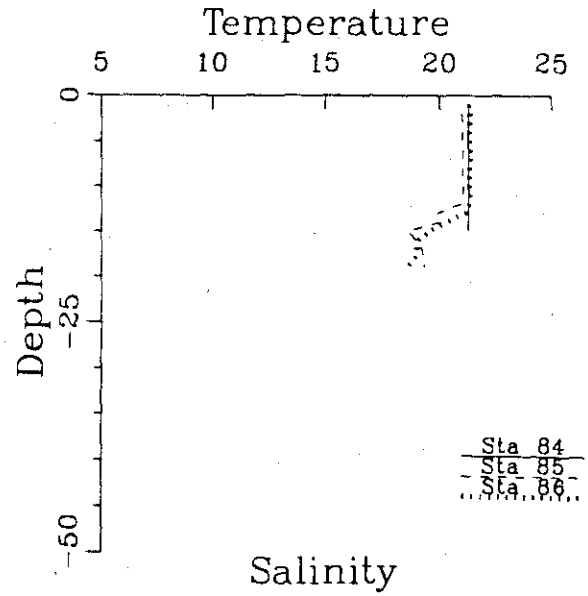
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.27	30.409	20.960	
2	21.27	30.411	20.962	
3	21.26	30.413	20.966	
4	21.26	30.417	20.969	
5	21.26	30.419	20.971	
6	21.26	30.420	20.971	
7	21.26	30.419	20.971	
8	21.26	30.419	20.971	
9	21.26	30.419	20.971	
10	21.27	30.418	20.967	
11	21.27	30.418	20.967	
12	21.27	30.419	20.968	
13	21.27	30.422	20.970	
14	21.27	30.419	20.968	
15	21.27	30.420	20.969	

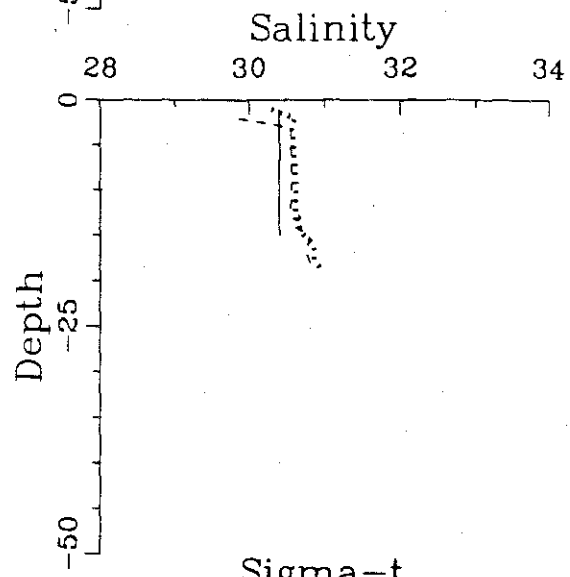
Sta 85 Depth 24 M Date 8/19/89
Lat 40 28.0N Lon 73 42.0W Time 542

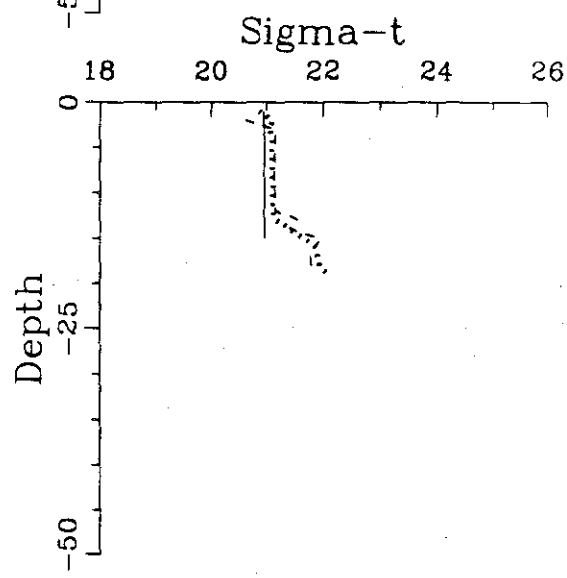
Depth	Temp	Salinity	Sigma-t	Oxygen
2	20.96	29.868	20.633	
3	21.00	30.568	21.153	
4	21.01	30.569	21.151	
5	21.00	30.563	21.149	
6	21.01	30.574	21.155	
7	21.01	30.577	21.157	
8	21.01	30.577	21.157	
9	21.01	30.577	21.157	
10	21.01	30.577	21.157	
11	21.01	30.577	21.157	
12	20.91	30.569	21.177	
13	19.88	30.704	21.548	
14	20.06	30.596	21.419	
15	18.59	30.814	21.954	
17	19.21	30.781	21.775	
19	19.33	30.872	21.815	

Sta 86 Depth 24 M Date 8/19/89
Lat 40 25.0N Lon 73 42.0W Time 612

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.31	30.308	20.873	
2	21.32	30.619	21.106	
3	21.32	30.575	21.073	
4	21.32	30.602	21.093	
5	21.32	30.597	21.089	
6	21.32	30.600	21.092	
7	21.32	30.623	21.109	
8	21.32	30.632	21.116	
9	21.32	30.632	21.116	
10	21.32	30.634	21.117	
11	21.32	30.635	21.118	
12	21.28	30.637	21.130	
13	21.15	30.625	21.156	
14	20.32	30.664	21.404	
15	19.52	30.732	21.660	
16	19.06	30.866	21.877	
17	18.95	30.875	21.912	
18	18.89	30.890	21.938	
19	18.57	30.996	22.097	







Sta 87 Depth 23 M Date 8/19/89
Lat 40 25.0N Lon 73 44.0W Time 636

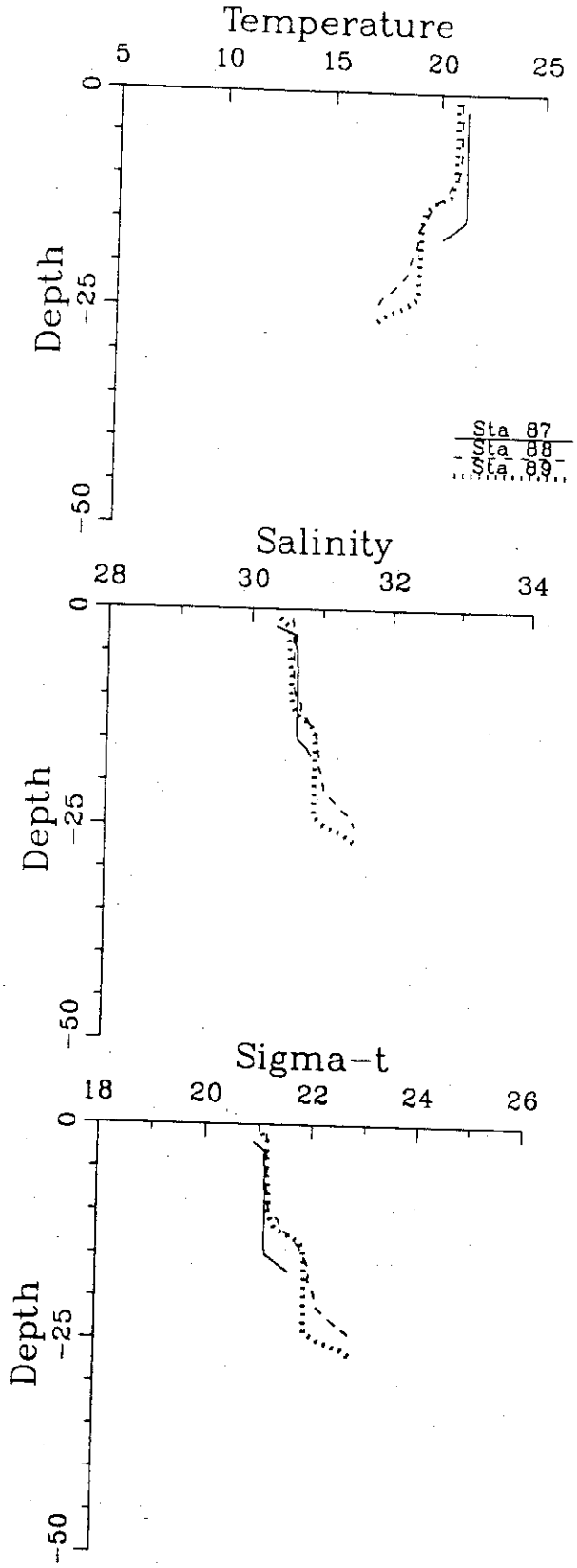
Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.30	30.337	20.898	
3	21.30	30.632	21.121	
4	21.30	30.617	21.110	
5	21.31	30.645	21.128	
6	21.31	30.651	21.133	
7	21.31	30.653	21.134	
8	21.31	30.654	21.135	
9	21.31	30.656	21.137	
10	21.31	30.655	21.136	
11	21.31	30.656	21.137	
12	21.31	30.656	21.137	
13	21.31	30.656	21.137	
14	21.31	30.656	21.137	
15	21.28	30.662	21.149	
16	20.80	30.791	21.374	
17	20.15	30.865	21.600	

Sta 88 Depth 32 M Date 8/19/89
Lat 40 25.0N Lon 73 46.0W Time 654

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.00	30.570	21.154	
3	21.04	30.587	21.156	
5	21.03	30.593	21.164	
7	21.03	30.598	21.167	
10	20.87	30.634	21.237	
12	20.30	30.705	21.440	
15	19.31	30.942	21.873	
17	18.96	30.978	21.987	
20	18.63	31.039	22.115	
22	18.27	31.165	22.299	
25	17.10	31.482	22.819	

Sta 89 Depth 34 M Date 8/19/89
Lat 40 25.0N Lon 73 48.0W Time 718

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.82	30.394	21.069	
3	20.83	30.525	21.165	
5	20.83	30.533	21.171	
7	20.81	30.553	21.192	
10	20.81	30.555	21.193	
12	20.51	30.626	21.326	
15	19.19	30.921	21.887	
17	19.14	30.920	21.899	
20	19.09	30.916	21.908	
22	19.06	30.917	21.916	
25	18.40	31.051	22.181	
27	16.95	31.488	22.858	



Sta 91 Depth 18 M Date 8/19/89
Lat 40 25.0N Lon 73 52.0W Time 806

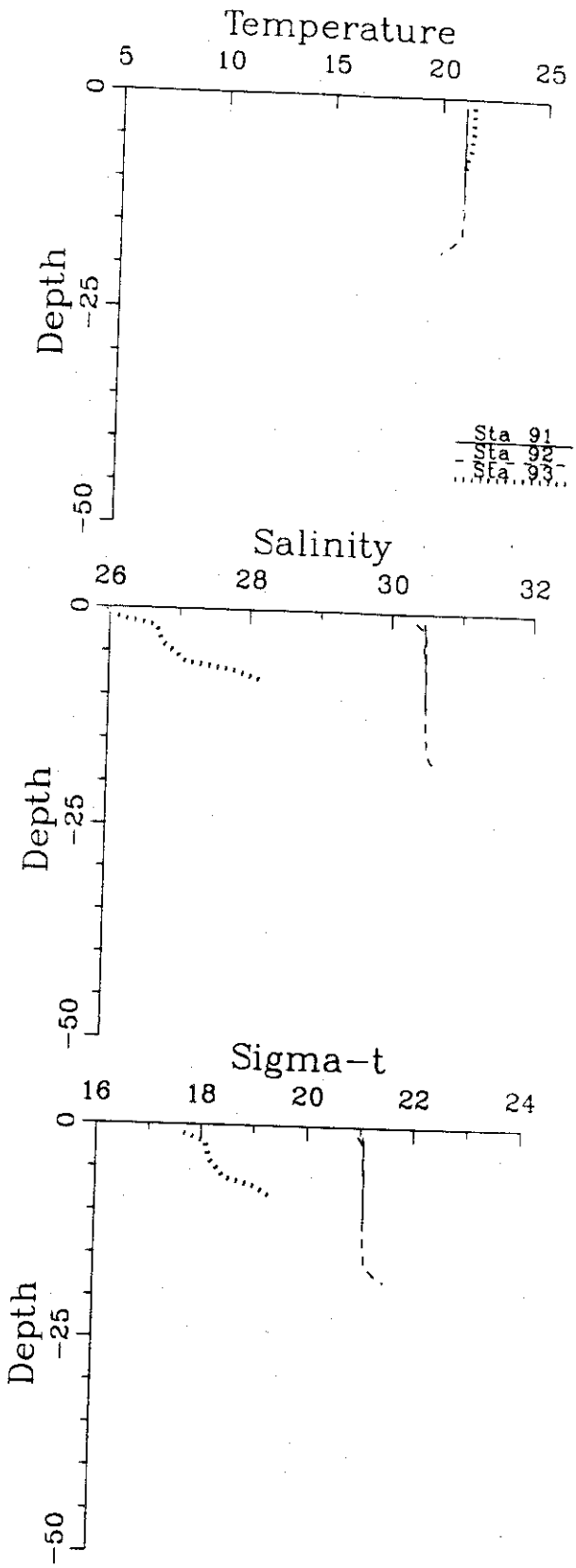
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.10	30.464	21.047	
2	21.10	30.478	21.058	
3	21.10	30.483	21.062	
4	21.10	30.462	21.046	
5	21.10	30.483	21.062	
6	21.10	30.487	21.065	
7	21.10	30.489	21.066	
8	21.09	30.491	21.071	
9	21.10	30.492	21.069	
10	21.10	30.492	21.069	
11	21.09	30.492	21.071	

Sta 92 Depth 22 M Date 8/19/89
Lat 40 25.0N Lon 73 54.0W Time 842

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.11	30.349	20.958	
2	21.12	30.480	21.054	
3	21.12	30.491	21.063	
4	21.13	30.489	21.058	
5	21.11	30.495	21.068	
6	21.12	30.494	21.065	
7	21.12	30.494	21.065	
8	21.12	30.495	21.066	
9	21.12	30.495	21.066	
10	21.12	30.496	21.066	
11	21.12	30.497	21.067	
12	21.12	30.497	21.067	
13	21.12	30.499	21.069	
14	21.10	30.501	21.075	
15	21.05	30.518	21.102	
16	21.03	30.516	21.105	
17	20.62	30.574	21.257	
18	20.02	30.663	21.481	

Sta 93 Depth 12 M Date 8/19/89
Lat 40 25.0N Lon 73 56.0W Time 912

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.47	26.119	17.666	
2	21.48	26.666	18.076	
4	21.46	26.763	18.155	
5	21.41	26.935	18.298	
6	21.38	27.087	18.421	
7	21.22	27.810	19.009	
8	21.14	28.139	19.278	



Sta 94 Depth 9 M Date 8/19/89
Lat 40 25.0N Lon 73 57.0W Time 936

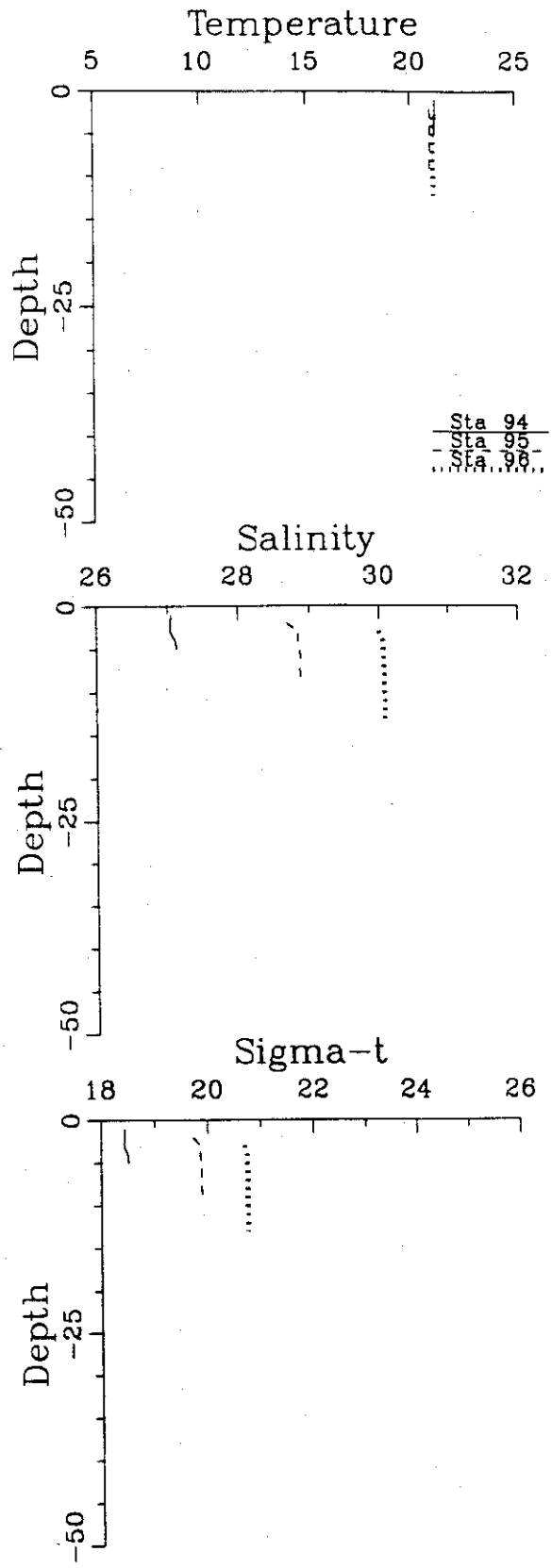
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.20	27.053	18.442	
2	21.20	27.050	18.440	
3	21.20	27.043	18.435	
4	21.19	27.117	18.493	
5	21.19	27.143	18.513	

Sta 95 Depth 16 M Date 8/19/89
Lat 40 22.0N Lon 73 57.0W Time 1036

Depth	Temp	Salinity	Sigma-t	Oxygen
2	20.94	28.680	19.740	
3	20.94	28.853	19.871	
4	20.94	28.842	19.862	
5	20.94	28.874	19.887	
6	20.94	28.883	19.893	
7	20.94	28.874	19.887	
8	20.93	28.879	19.893	
9	20.92	28.891	19.905	

Sta 96 Depth 18 M Date 8/19/89
Lat 40 22.0N Lon 73 56.0W Time 1048

Depth	Temp	Salinity	Sigma-t	Oxygen
3	21.08	30.004	20.705	
4	21.08	30.058	20.745	
5	21.08	30.072	20.756	
6	21.07	30.074	20.760	
7	21.08	30.078	20.761	
8	21.08	30.082	20.764	
9	21.08	30.083	20.764	
10	21.10	30.090	20.764	
11	21.10	30.093	20.767	
12	21.10	30.092	20.766	
13	21.11	30.090	20.762	



Sta 97 Depth 21 M Date 8/19/89
Lat 40 22.0N Lon 73 54.0W Time 1118

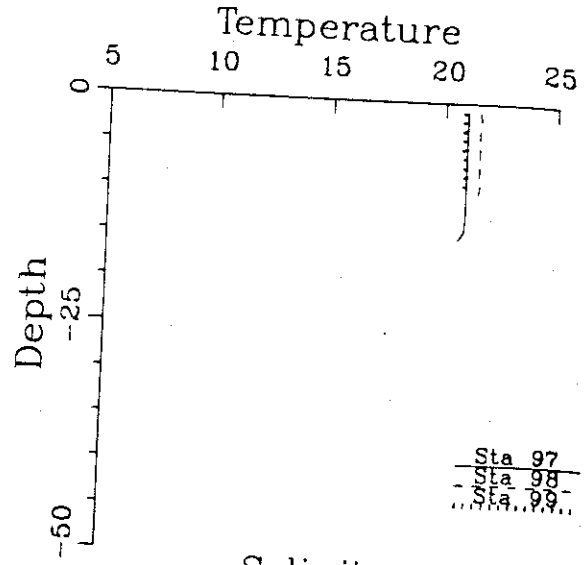
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.98	30.467	21.082	
4	20.99	30.469	21.080	
5	20.98	30.467	21.082	
6	20.98	30.475	21.088	
7	20.98	30.474	21.087	
9	20.98	30.474	21.087	
10	20.98	30.475	21.088	
11	20.98	30.476	21.088	
12	20.98	30.476	21.088	
14	20.95	30.485	21.103	
15	20.68	30.552	21.225	

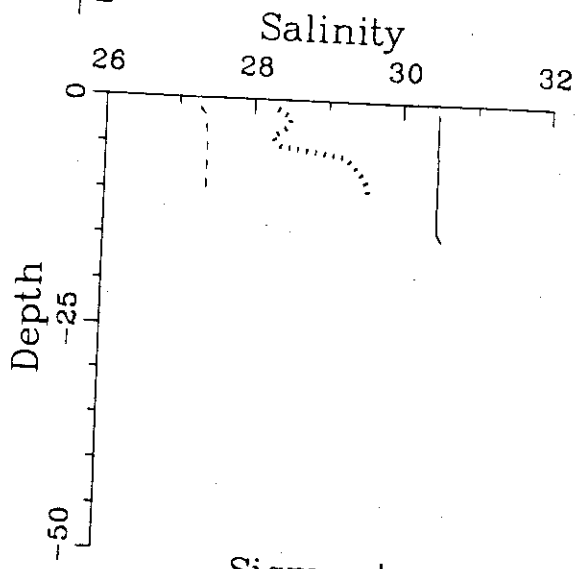
Sta 98 Depth 15 M Date 8/19/89
Lat 40 19.0N Lon 73 58.0W Time 1218

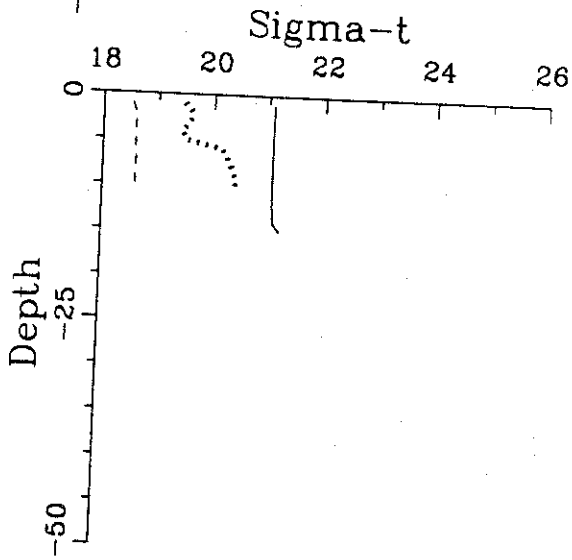
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.53	27.274	18.522	
2	21.54	27.355	18.581	
3	21.53	27.358	18.585	
4	21.53	27.370	18.595	
6	21.53	27.372	18.596	
7	21.53	27.375	18.598	
8	21.53	27.375	18.598	
9	21.54	27.375	18.596	
10	21.53	27.376	18.599	

Sta 99 Depth 16 M Date 8/19/89
Lat 40 19.0N Lon 73 56.0W Time 1236

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.85	28.308	19.482	
2	20.86	28.490	19.617	
3	20.85	28.434	19.577	
4	20.84	28.247	19.439	
5	20.86	28.359	19.518	
6	20.91	29.228	20.162	
8	20.93	29.469	20.339	
9	20.92	29.532	20.390	
10	20.92	29.556	20.408	







Sta 100 Depth 22 M Date 8/19/89
Lat 40 19.0N Lon 73 54.0W Time 1300

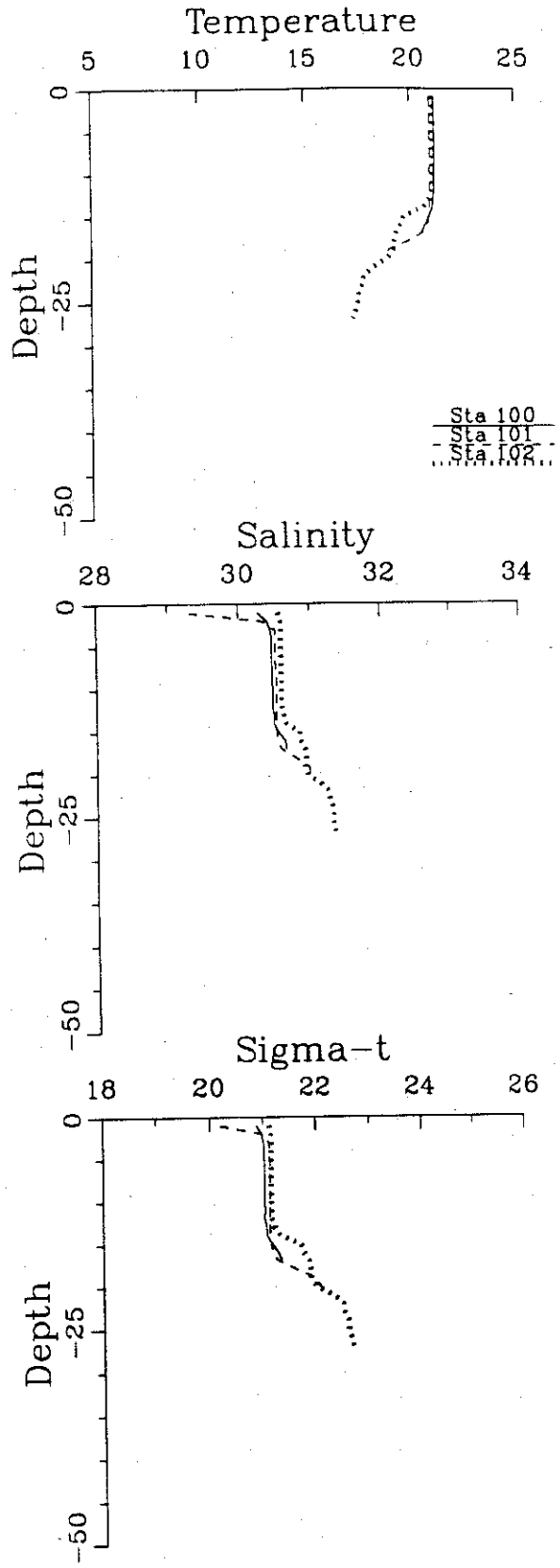
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.19	30.278	20.883	
2	21.19	30.403	20.977	
3	21.20	30.449	21.009	
4	21.20	30.465	21.022	
5	21.20	30.467	21.023	
7	21.20	30.466	21.022	
8	21.20	30.471	21.026	
9	21.20	30.471	21.026	
10	21.19	30.475	21.032	
11	21.18	30.479	21.037	
12	21.19	30.473	21.030	
13	21.12	30.495	21.066	
14	21.10	30.492	21.069	
15	20.91	30.552	21.164	
16	20.75	30.650	21.281	
17	20.54	30.666	21.348	

Sta 101 Depth 25 M Date 8/19/89
Lat 40 19.0N Lon 73 52.0W Time 1318

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.96	29.310	20.211	
2	20.97	30.338	20.987	
3	20.97	30.516	21.121	
4	20.97	30.516	21.121	
5	20.97	30.519	21.124	
7	20.97	30.522	21.126	
8	20.97	30.524	21.127	
9	20.97	30.524	21.127	
10	20.96	30.526	21.132	
11	20.97	30.527	21.130	
12	20.97	30.524	21.127	
13	20.96	30.527	21.132	
14	20.95	30.528	21.136	
15	20.92	30.531	21.146	
16	20.87	30.542	21.167	
17	20.59	30.594	21.280	
18	19.87	30.786	21.612	
19	18.97	30.987	21.992	
20	18.70	31.018	22.082	

Sta 102 Depth 32 M Date 8/19/89
Lat 40 19.0N Lon 73 50.0W Time 1342

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.08	30.558	21.124	
3	21.08	30.596	21.153	
5	21.08	30.598	21.154	
7	21.08	30.599	21.155	
10	21.09	30.599	21.152	
12	21.07	30.600	21.158	
15	19.70	30.855	21.708	
17	19.31	30.932	21.865	
20	18.89	30.976	22.003	
22	17.76	31.272	22.503	
25	17.50	31.320	22.601	
27	17.24	31.356	22.690	



Sta 103 Depth 52 M Date 8/19/89
Lat 40 19.0N Lon 73 47.9W Time 1400

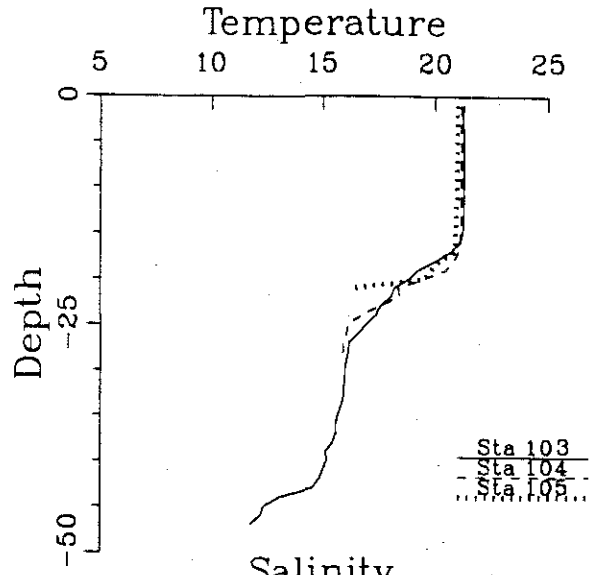
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.26	30.885	21.323	
3	21.25	30.888	21.328	
5	21.26	30.891	21.328	
7	21.26	30.892	21.329	
10	21.26	30.893	21.329	
12	21.26	30.894	21.330	
15	21.21	30.885	21.337	
17	20.66	30.828	21.439	
20	18.83	30.990	22.029	
22	18.04	31.197	22.379	
25	16.91	31.497	22.874	
27	16.16	31.661	23.170	
30	15.99	31.685	23.227	
32	15.93	31.714	23.262	
35	15.66	31.772	23.366	
40	15.19	31.841	23.521	
45	12.37	32.358	24.492	
47	11.73	32.393	24.638	

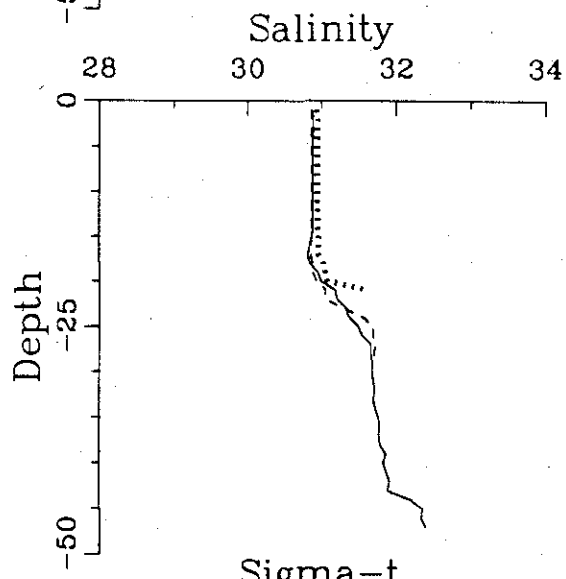
Sta 104 Depth 32 M Date 8/19/89
Lat 40 19.0N Lon 73 46.0W Time 1418

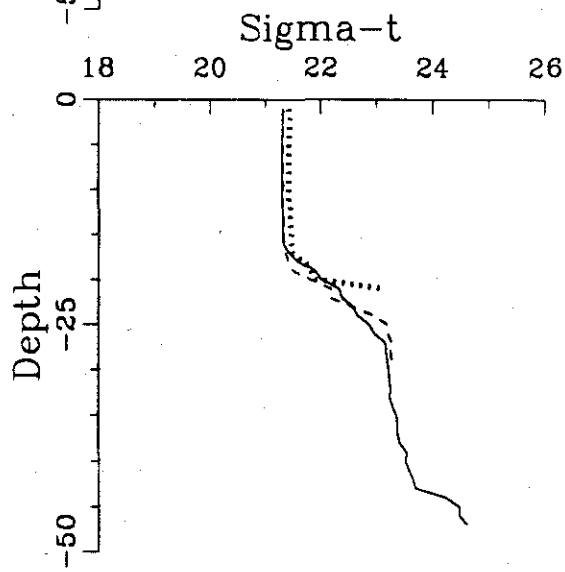
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.16	30.867	21.336	
3	21.16	30.866	21.336	
5	21.16	30.869	21.338	
7	21.16	30.870	21.339	
10	21.15	30.871	21.342	
12	21.15	30.871	21.342	
15	21.13	30.871	21.348	
17	21.03	30.876	21.378	
20	19.50	30.933	21.818	
22	18.42	31.039	22.167	
25	16.10	31.689	23.205	
27	15.88	31.731	23.286	
29	15.78	31.715	23.296	

Sta 105 Depth 27 M Date 8/19/89
Lat 40 19.0N Lon 73 44.0W Time 1442

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.97	30.935	21.439	
3	20.97	30.950	21.450	
5	20.97	30.952	21.451	
7	20.96	30.949	21.452	
10	20.96	30.948	21.451	
12	20.94	30.954	21.461	
15	20.89	30.967	21.484	
17	20.81	30.961	21.501	
20	19.50	31.074	21.925	
21	16.44	31.627	23.081	

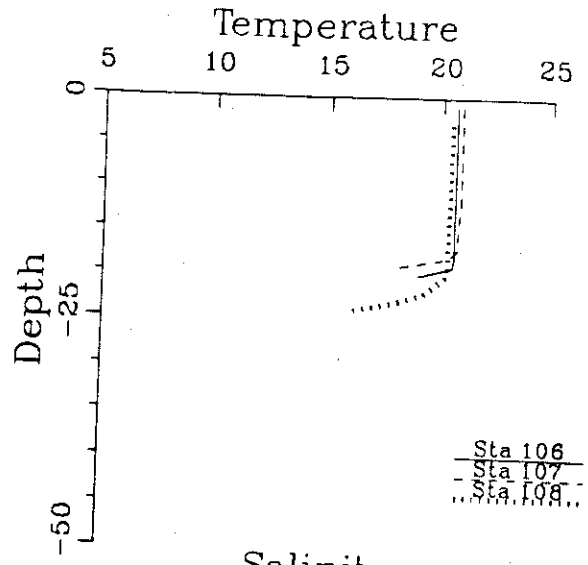






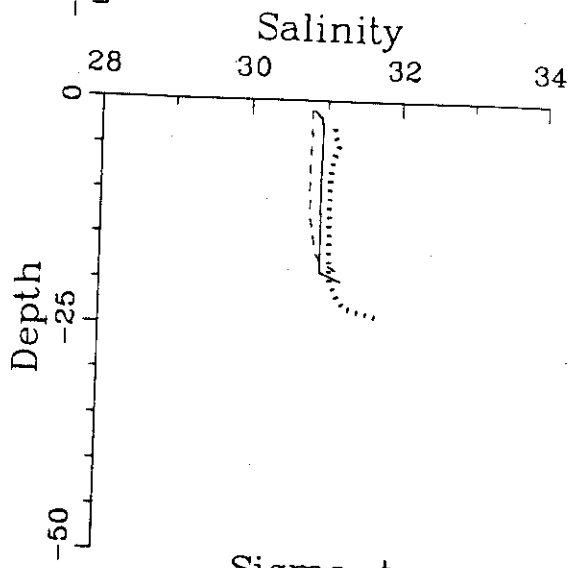
Sta 106 Depth 25 M Date 8/19/89
Lat 40 19.0N Lon 73 41.9W Time 1500

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.64	30.826	21.443	
3	20.63	30.945	21.536	
5	20.63	30.941	21.533	
7	20.65	30.937	21.525	
10	20.65	30.937	21.525	
12	20.64	30.937	21.527	
15	20.61	30.939	21.537	
17	20.61	30.941	21.538	
20	18.97	31.215	22.165	



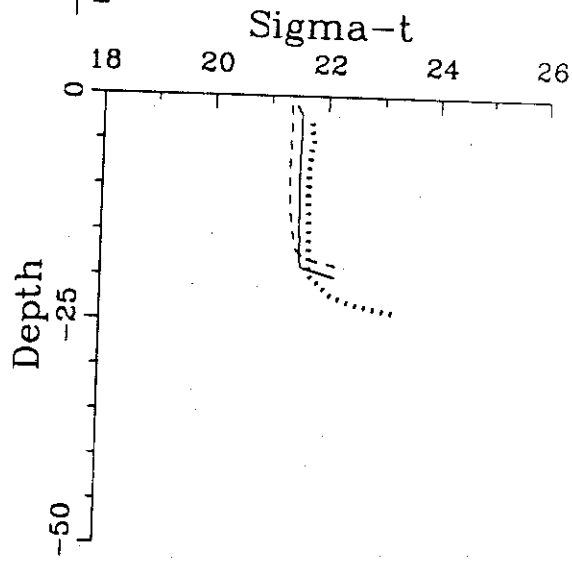
Sta 107 Depth 24 M Date 8/19/89
Lat 40 19.0N Lon 73 40.1W Time 1530

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.89	30.794	21.353	
2	20.89	30.797	21.355	
3	20.89	30.796	21.354	
4	20.90	30.800	21.355	
5	20.89	30.791	21.351	
6	20.88	30.794	21.356	
7	20.89	30.788	21.348	
8	20.89	30.788	21.348	
9	20.90	30.786	21.344	
10	20.89	30.789	21.349	
11	20.88	30.792	21.354	
12	20.88	30.793	21.355	
13	20.84	30.806	21.375	
14	20.82	30.821	21.392	
15	20.78	30.842	21.418	
16	20.75	30.860	21.440	
17	20.71	30.879	21.465	
18	20.35	30.967	21.626	
19	18.14	31.179	22.341	



Sta 108 Depth 27 M Date 8/19/89
Lat 40 16.0N Lon 73 39.9W Time 1554

Depth	Temp	Salinity	Sigma-t	Oxygen
3	20.40	31.097	21.711	
4	20.40	31.110	21.721	
5	20.40	31.155	21.755	
7	20.39	31.079	21.700	
10	20.39	31.050	21.678	
12	20.38	31.047	21.679	
15	20.33	31.057	21.699	
18	20.32	31.061	21.705	
20	20.21	31.071	21.741	
22	19.22	31.173	22.071	
24	15.95	31.780	23.308	



Sta 109 Depth 35 M Date 8/19/89
Lat 40 12.9N Lon 73 40.0W Time 1624

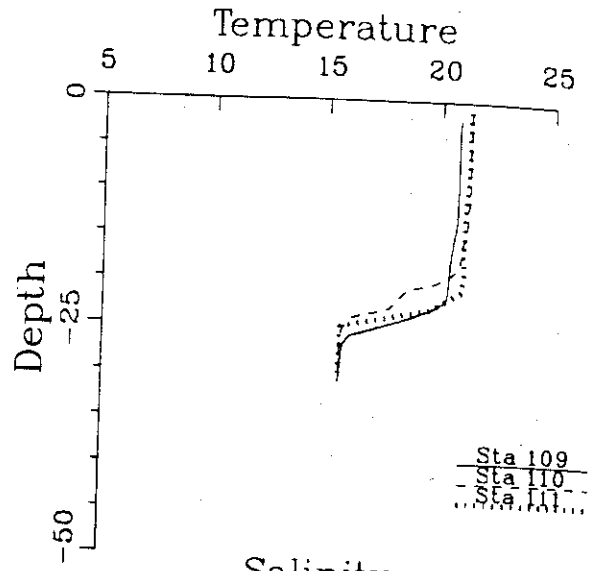
Depth	Temp	Salinity	Sigma-t	Oxygen
2	20.80	31.027	21.553	
3	20.79	31.017	21.548	
5	20.79	31.014	21.546	
7	20.79	31.007	21.541	
11	20.76	31.007	21.549	
12	20.74	31.008	21.555	
15	20.61	31.050	21.621	
18	20.44	31.103	21.705	
20	20.37	31.114	21.732	
22	20.28	31.113	21.755	
26	16.01	31.789	23.302	
27	15.73	31.832	23.397	
30	15.60	31.808	23.407	
31	15.59	31.791	23.396	

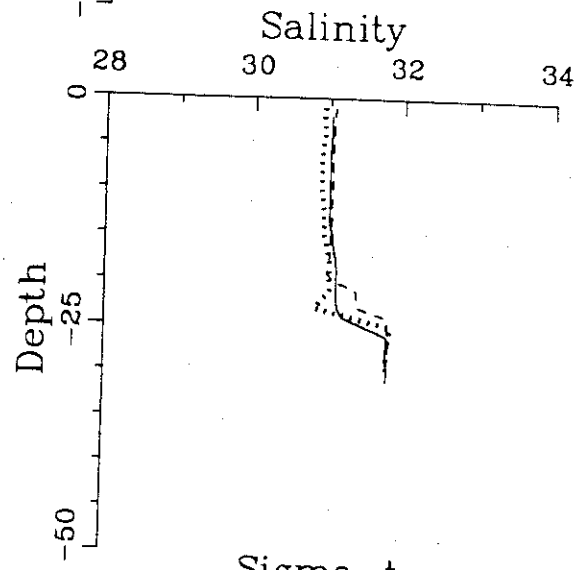
Sta 110 Depth 34 M Date 8/19/89
Lat 40 13.0N Lon 73 42.0W Time 1642

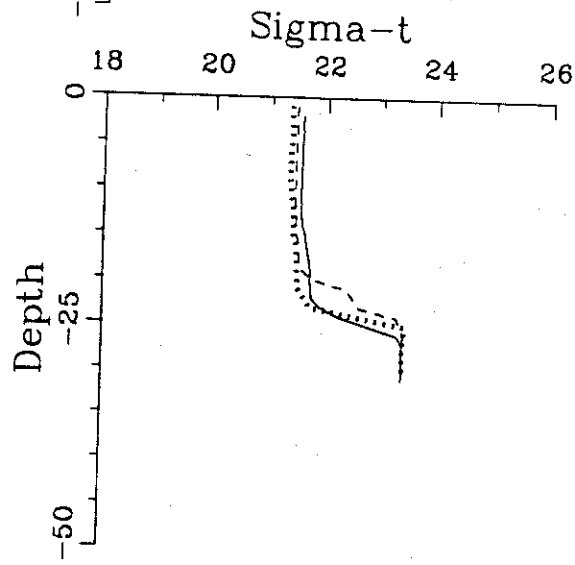
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.31	31.068	21.448	
3	21.30	31.056	21.442	
5	21.29	31.047	21.438	
7	21.29	31.047	21.438	
10	21.29	31.044	21.436	
12	21.22	31.038	21.450	
15	21.10	31.031	21.477	
17	20.95	31.023	21.511	
20	19.89	31.053	21.810	
23	17.74	31.415	22.617	
25	15.75	31.797	23.366	
27	15.59	31.796	23.400	
30	15.57	31.788	23.398	

Sta 111 Depth 35 M Date 8/19/89
Lat 40 13.0N Lon 73 43.9W Time 1700

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.27	30.926	21.352	
3	21.24	30.927	21.361	
5	21.23	30.904	21.346	
7	21.24	30.891	21.333	
10	21.17	30.894	21.354	
12	21.08	30.924	21.401	
15	21.06	30.936	21.415	
18	21.03	31.016	21.484	
20	20.99	31.014	21.493	
23	19.53	30.819	21.724	
25	15.61	31.841	23.430	
27	15.61	31.806	23.403	
30	15.57	31.788	23.398	







Sta 112 Depth 57 M Date 8/19/89
Lat 40 13.0N Lon 73 46.0W Time 1724

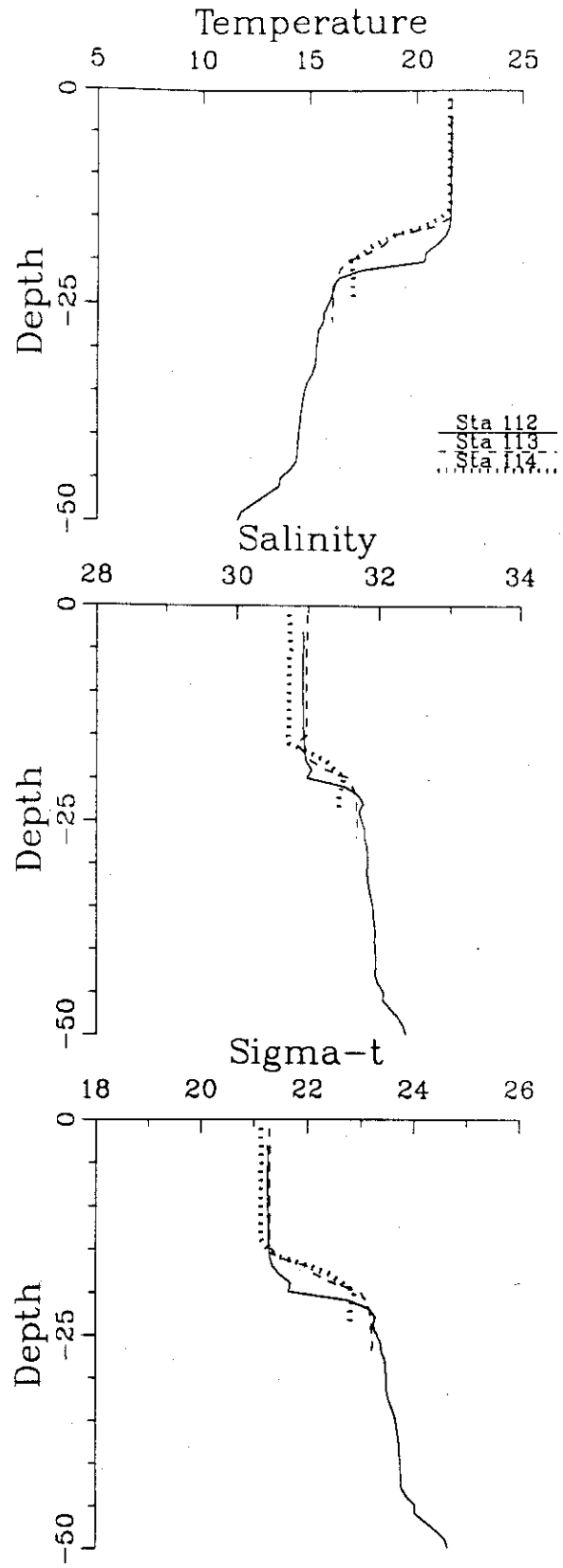
Depth	Temp	Salinity	Sigma-t	Oxygen
3	21.61	30.924	21.259	
4	21.61	30.933	21.265	
5	21.60	30.932	21.267	
7	21.60	30.922	21.260	
10	21.58	30.928	21.270	
12	21.58	30.934	21.274	
15	21.57	30.945	21.285	
17	21.36	30.957	21.351	
20	20.35	30.987	21.641	
22	16.32	31.706	23.169	
26	15.68	31.798	23.382	
27	15.65	31.798	23.388	
30	15.31	31.833	23.489	
32	15.25	31.840	23.508	
35	14.79	31.919	23.667	
40	14.49	31.953	23.756	
45	13.65	32.070	24.019	
50	11.67	32.385	24.643	
52	11.41	32.421	24.718	

Sta 113 Depth 31 M Date 8/19/89
Lat 40 13.0N Lon 73 47.9W Time 1742

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.64	30.981	21.294	
3	21.63	30.981	21.296	
5	21.64	30.980	21.293	
7	21.65	30.977	21.288	
10	21.62	30.976	21.295	
12	21.60	30.976	21.301	
15	21.50	30.985	21.334	
17	18.85	30.935	21.982	
20	16.69	31.580	22.988	
22	16.23	31.666	23.158	
25	16.07	31.689	23.212	
27	16.06	31.681	23.208	

Sta 114 Depth 25 M Date 8/19/89
Lat 40 13.0N Lon 73 50.0W Time 1806

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.53	30.727	21.131	
3	21.53	30.734	21.137	
5	21.53	30.751	21.149	
7	21.52	30.729	21.135	
10	21.52	30.726	21.133	
12	21.52	30.726	21.133	
15	21.04	30.715	21.253	
17	18.94	31.003	22.011	
20	16.88	31.508	22.889	
22	17.02	31.441	22.806	
24	17.01	31.429	22.799	



Sta 115 Depth 22 M Date 8/19/89
Lat 40 13.0N Lon 73 51.9W Time 1830

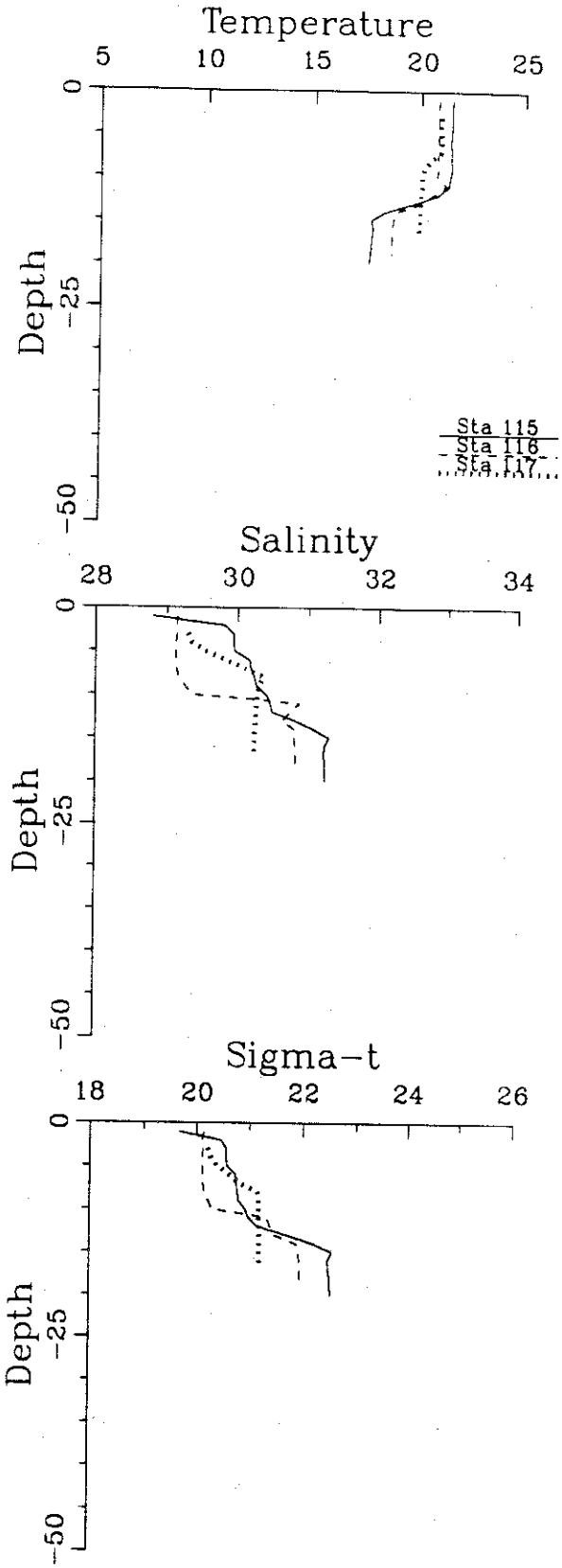
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.49	28.787	19.675	
2	21.47	29.800	20.446	
3	21.47	29.944	20.555	
4	21.46	29.946	20.559	
5	21.45	29.951	20.566	
6	21.42	30.164	20.735	
7	21.43	30.187	20.750	
8	21.45	30.231	20.778	
9	21.47	30.261	20.795	
10	21.39	30.400	20.922	
11	21.32	30.449	20.977	
12	20.81	30.487	21.142	
13	19.69	30.807	21.674	
14	18.32	31.065	22.211	
15	17.61	31.289	22.552	
16	17.71	31.222	22.477	
17	17.66	31.219	22.486	
18	17.61	31.229	22.506	
20	17.54	31.235	22.527	

Sta 116 Depth 24 M Date 8/19/89
Lat 40 13.0N Lon 73 54.0W Time 1848

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.83	29.152	20.126	
2	20.82	29.129	20.111	
3	20.82	29.141	20.120	
4	20.81	29.123	20.109	
5	20.81	29.124	20.110	
6	20.81	29.122	20.108	
7	20.80	29.132	20.118	
8	20.79	29.162	20.144	
10	20.76	29.345	20.290	
11	21.19	30.864	21.326	
13	19.97	30.611	21.454	
14	18.83	30.796	21.881	
15	18.68	30.799	21.920	
16	18.65	30.806	21.933	
17	18.63	30.815	21.945	
18	18.62	30.812	21.945	
19	18.62	30.812	21.945	

Sta 117 Depth 21 M Date 8/19/89
Lat 40 13.0N Lon 73 56.0W Time 1912

Depth	Temp	Salinity	Sigma-t	Oxygen
3	20.95	29.294	20.202	
4	20.89	29.351	20.261	
5	20.96	29.541	20.386	
7	20.93	30.102	20.818	
8	20.43	30.365	21.149	
9	20.12	30.289	21.171	
10	20.04	30.275	21.181	
11	20.03	30.263	21.175	
12	19.97	30.259	21.187	
13	19.95	30.252	21.187	
15	19.94	30.242	21.182	
16	19.89	30.239	21.192	
17	19.87	30.239	21.197	



Sta 118 Depth 18 M Date 8/19/89
Lat 40 13.0N Lon 73 57.9W Time 1930

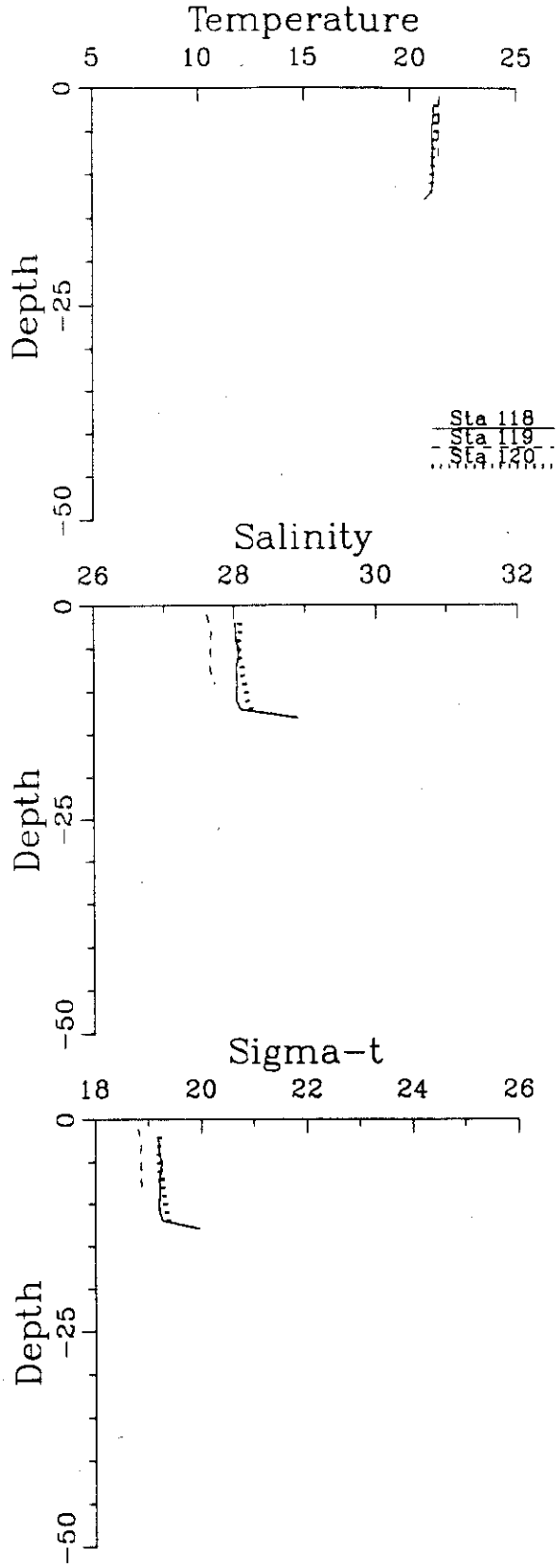
Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.12	28.018	19.192	
3	21.12	28.026	19.198	
4	21.09	28.032	19.211	
5	21.04	28.075	19.256	
6	21.04	28.066	19.249	
7	21.08	28.036	19.216	
8	21.07	28.036	19.219	
9	21.07	28.043	19.224	
10	21.08	28.034	19.215	
11	21.07	28.038	19.220	
12	21.03	28.097	19.275	
13	20.66	28.898	19.978	

Sta 119 Depth 13 M Date 8/19/89
Lat 40 13.0N Lon 73 59.0W Time 1948

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.40	27.613	18.812	
3	21.39	27.674	18.861	
4	21.38	27.670	18.861	
5	21.36	27.668	18.865	
6	21.35	27.662	18.863	
7	21.35	27.661	18.862	
8	21.35	27.678	18.875	
9	21.34	27.729	18.916	

Sta 120 Depth 15 M Date 8/19/89
Lat 40 10.0N Lon 73 58.0W Time 2030

Depth	Temp	Salinity	Sigma-t	Oxygen
2	21.26	28.087	19.207	
3	21.27	28.088	19.206	
4	21.26	28.073	19.197	
5	21.23	28.075	19.206	
6	21.19	28.086	19.225	
7	21.12	28.112	19.263	
8	21.10	28.122	19.276	
9	21.06	28.151	19.308	
10	21.04	28.170	19.328	
11	21.01	28.191	19.352	
12	20.98	28.234	19.392	



Sta 121 Depth 40 M Date 8/19/89
Lat 40 10.0N Lon 73 44.0W Time 2312

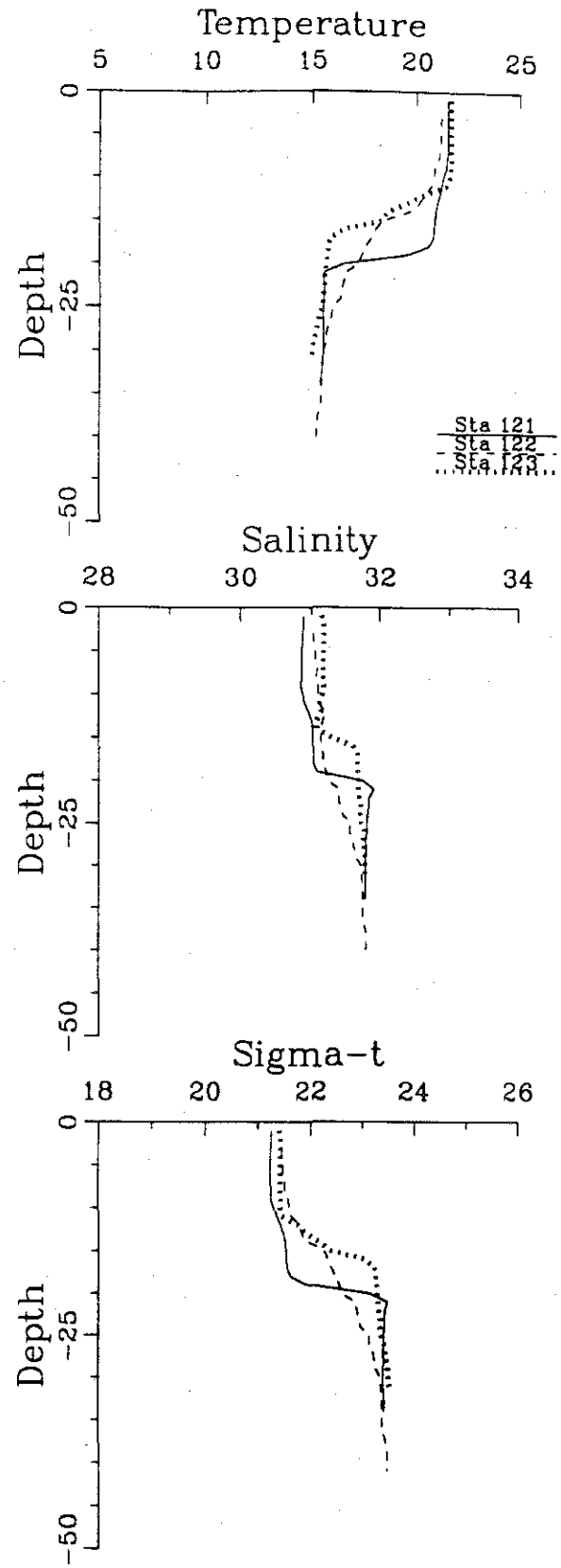
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.53	30.887	21.252	
3	21.53	30.879	21.246	
5	21.53	30.868	21.238	
7	21.51	30.862	21.239	
10	21.29	30.880	21.312	
12	21.11	30.966	21.425	
15	20.89	31.026	21.529	
17	20.82	31.038	21.556	
20	16.53	31.746	23.152	
22	15.56	31.848	23.446	
25	15.52	31.816	23.431	
27	15.51	31.794	23.416	
30	15.51	31.795	23.417	
32	15.47	31.798	23.428	
34	15.38	31.789	23.440	

Sta 122 Depth 46 M Date 8/20/89
Lat 40 10.0N Lon 73 40.0W Time 48

Depth	Temp	Salinity	Sigma-t	Oxygen
3	21.20	31.028	21.448	
4	21.19	31.033	21.454	
5	21.19	31.052	21.469	
7	21.12	31.088	21.514	
10	20.82	31.096	21.600	
12	20.38	31.199	21.794	
15	18.40	31.149	22.255	
17	17.88	31.164	22.392	
20	17.23	31.225	22.592	
22	16.47	31.390	22.893	
25	15.95	31.565	23.144	
27	15.74	31.601	23.218	
30	15.51	31.727	23.365	
32	15.46	31.739	23.385	
35	15.42	31.751	23.403	
40	15.21	31.800	23.486	
41	15.21	31.803	23.488	

Sta 123 Depth 36 M Date 8/20/89
Lat 40 10.0N Lon 73 36.0W Time 312

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.69	31.145	21.404	
3	21.69	31.174	21.426	
5	21.69	31.171	21.424	
7	21.68	31.170	21.426	
10	21.60	31.158	21.438	
12	20.38	31.144	21.752	
15	18.37	31.293	22.372	
17	15.84	31.667	23.246	
20	15.65	31.685	23.302	
22	15.58	31.696	23.326	
25	15.44	31.722	23.376	
27	15.23	31.750	23.443	
30	15.01	31.782	23.515	
31	14.94	31.783	23.531	



Sta 124 Depth 34 M Date 8/20/89
Lat 40 13.0N Lon 73 42.1W Time 536

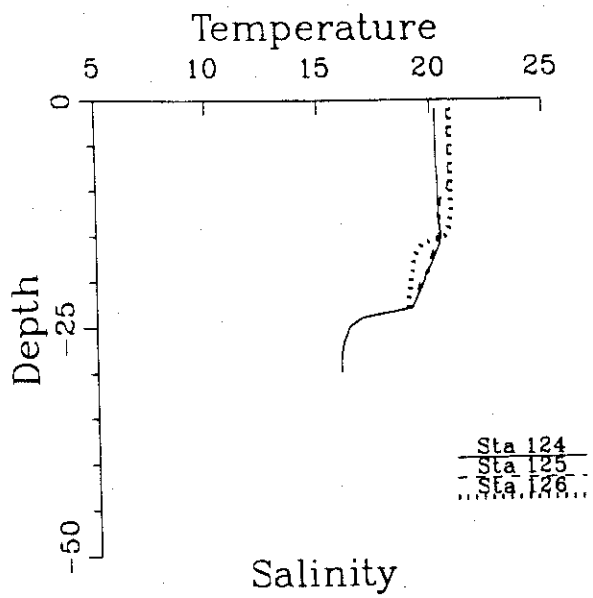
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.23	31.053	21.722	
3	20.24	31.073	21.735	
5	20.22	31.063	21.732	
7	20.22	31.052	21.724	
10	20.30	31.075	21.721	
12	20.31	31.083	21.724	
15	20.40	31.134	21.739	
17	20.16	31.136	21.803	
20	19.65	31.139	21.936	
22	19.28	31.154	22.041	
25	16.32	31.564	23.060	
27	16.03	31.664	23.202	
30	15.94	31.703	23.251	

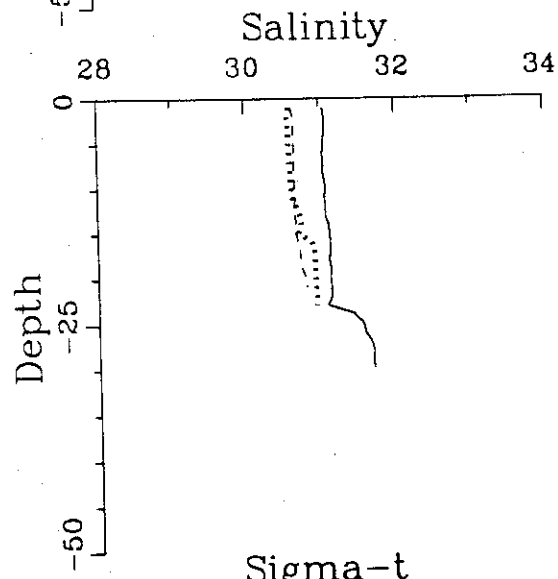
Sta 125 Depth 22 M Date 8/20/89
Lat 40 13.0N Lon 73 52.0W Time 806

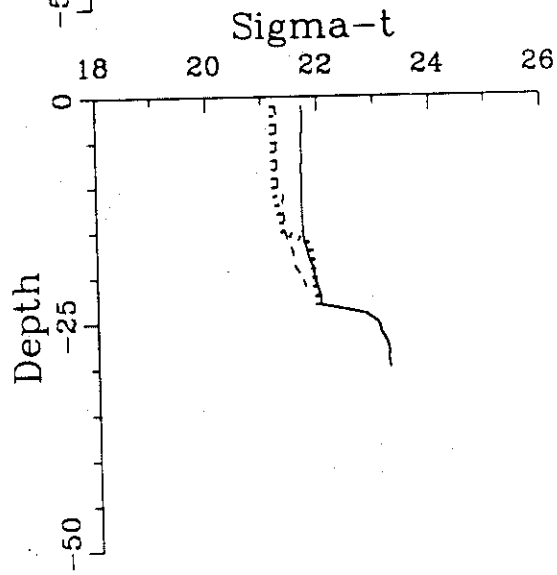
Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.79	30.634	21.258	
3	20.79	30.666	21.282	
5	20.79	30.668	21.284	
7	20.79	30.665	21.282	
10	20.70	30.662	21.303	
12	20.40	30.669	21.387	
15	20.31	30.681	21.419	
17	20.00	30.735	21.540	
20	19.50	30.817	21.730	
21	19.36	30.824	21.771	

Sta 126 Depth 27 M Date 8/20/89
Lat 40 16.0N Lon 73 50.0W Time 936

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.86	30.600	21.214	
3	20.86	30.592	21.208	
5	20.86	30.599	21.213	
7	20.87	30.606	21.216	
10	20.87	30.625	21.230	
12	20.86	30.688	21.281	
15	20.61	30.720	21.371	
17	19.25	30.927	21.876	
20	19.05	30.940	21.936	
22	18.94	30.951	21.972	
23	18.93	30.947	21.971	

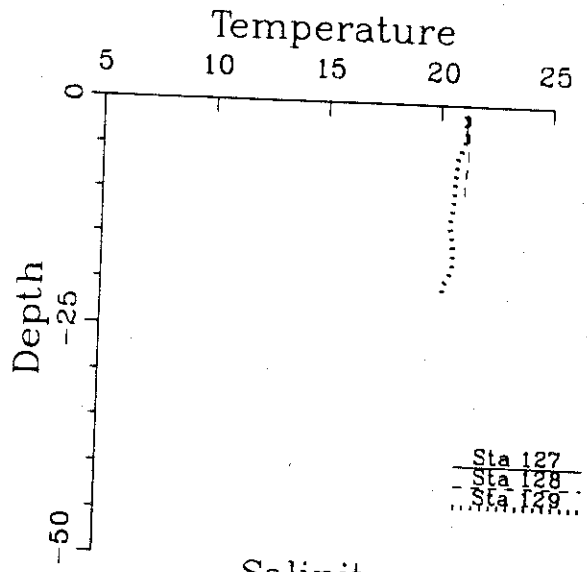






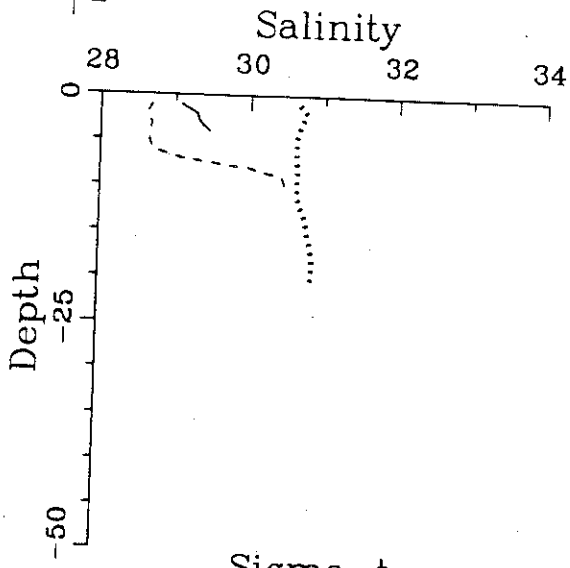
Sta 127 Depth 10 M Date 8/20/89
Lat 40 19.0N Lon 73 58.0W Time 1236

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.12	29.074	19.991	
2	21.14	29.285	20.145	
3	21.14	29.331	20.180	
4	21.15	29.471	20.283	



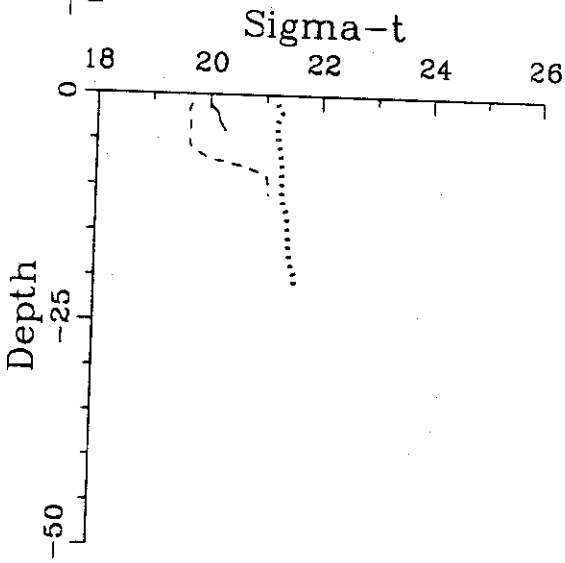
Sta 128 Depth 16 M Date 8/20/89
Lat 40 19.0N Lon 73 56.0W Time 1436

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.25	28.695	19.670	
2	21.26	28.631	19.619	
3	21.25	28.682	19.660	
4	21.25	28.681	19.659	
5	21.25	28.664	19.646	
6	21.24	28.700	19.676	
7	21.19	29.089	19.983	
8	21.12	29.983	20.678	
9	21.08	30.426	21.024	
10	21.08	30.470	21.057	
11	21.09	30.473	21.057	



Sta 129 Depth 25 M Date 8/20/89
Lat 40 19.0N Lon 73 52.0W Time 1806

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.09	30.656	21.195	
3	21.17	30.682	21.194	
5	20.93	30.621	21.211	
7	20.73	30.623	21.266	
10	20.65	30.635	21.296	
12	20.57	30.654	21.331	
15	20.58	30.776	21.421	
17	20.63	30.834	21.452	
20	20.20	30.856	21.581	
21	20.22	30.814	21.543	



Sta 130 Depth 22 M Date 8/20/89
Lat 40 22.0N Lon 73 36.1W Time 2154

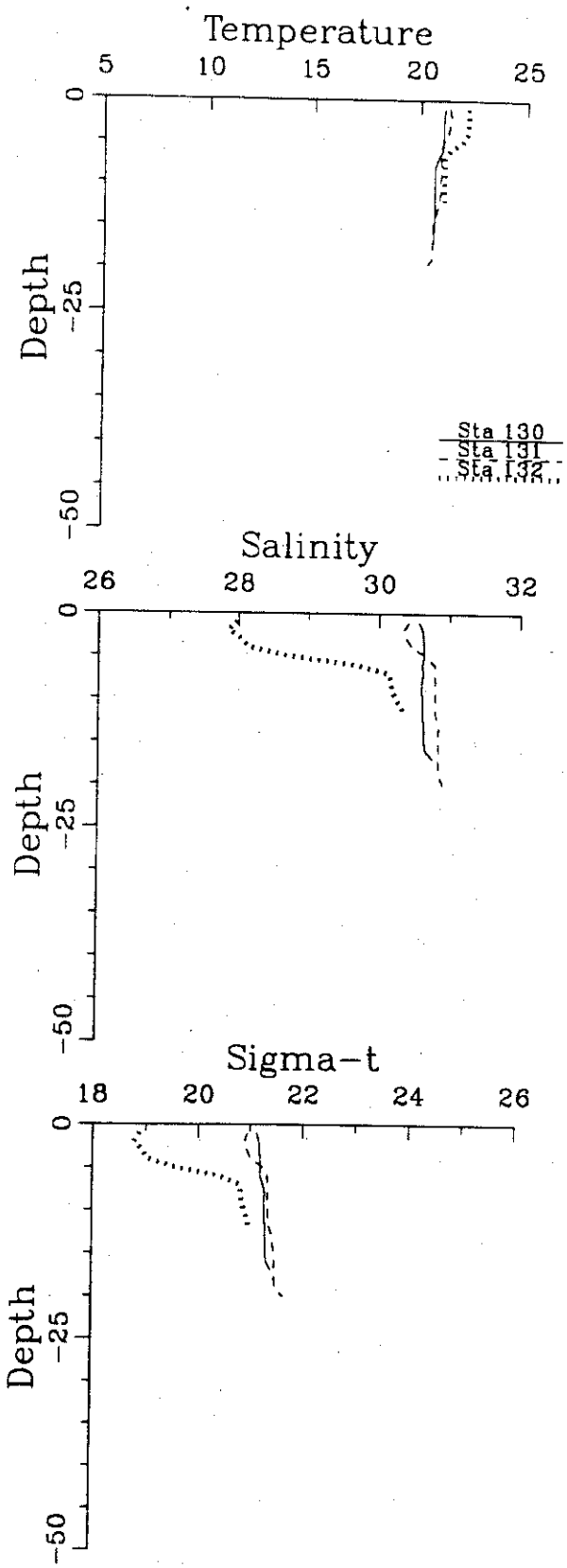
Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.09	30.569	21.130	
2	21.06	30.619	21.175	
3	21.04	30.626	21.186	
4	21.03	30.637	21.197	
5	21.00	30.641	21.208	
6	20.97	30.622	21.202	
7	20.79	30.629	21.254	
8	20.63	30.615	21.286	
9	20.65	30.615	21.281	
10	20.64	30.621	21.288	
11	20.64	30.621	21.288	
12	20.64	30.634	21.298	
13	20.64	30.641	21.303	
14	20.63	30.644	21.308	
15	20.62	30.647	21.313	
16	20.62	30.666	21.327	
17	20.58	30.772	21.418	

Sta 131 Depth 25 M Date 8/21/89
Lat 40 22.0N Lon 73 51.0W Time 24

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.32	30.412	20.949	
2	21.37	30.353	20.891	
3	21.32	30.401	20.941	
4	21.24	30.482	21.024	
5	21.02	30.694	21.243	
6	20.93	30.792	21.341	
8	20.92	30.799	21.349	
9	20.91	30.799	21.351	
11	20.88	30.805	21.364	
12	20.85	30.811	21.376	
13	20.76	30.858	21.436	
14	20.66	30.848	21.455	
15	20.56	30.852	21.484	
16	20.55	30.850	21.485	
17	20.55	30.849	21.484	
18	20.54	30.850	21.487	
19	20.50	30.861	21.506	
20	20.14	30.916	21.642	

Sta 132 Depth 18 M Date 8/21/89
Lat 40 22.0N Lon 73 56.0W Time 212

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.20	27.979	18.874	
2	22.22	27.852	18.773	
3	22.18	28.039	18.925	
4	22.15	28.143	19.012	
5	21.90	28.733	19.524	
6	21.32	29.674	20.391	
7	21.09	30.143	20.807	
8	21.07	30.168	20.831	
9	21.06	30.184	20.846	
10	21.05	30.249	20.898	
11	21.06	30.322	20.951	
12	21.08	30.369	20.981	



Sta 133 Depth 17 M Date 8/21/89
Lat 40 22.0N Lon 73 57.0W Time 354

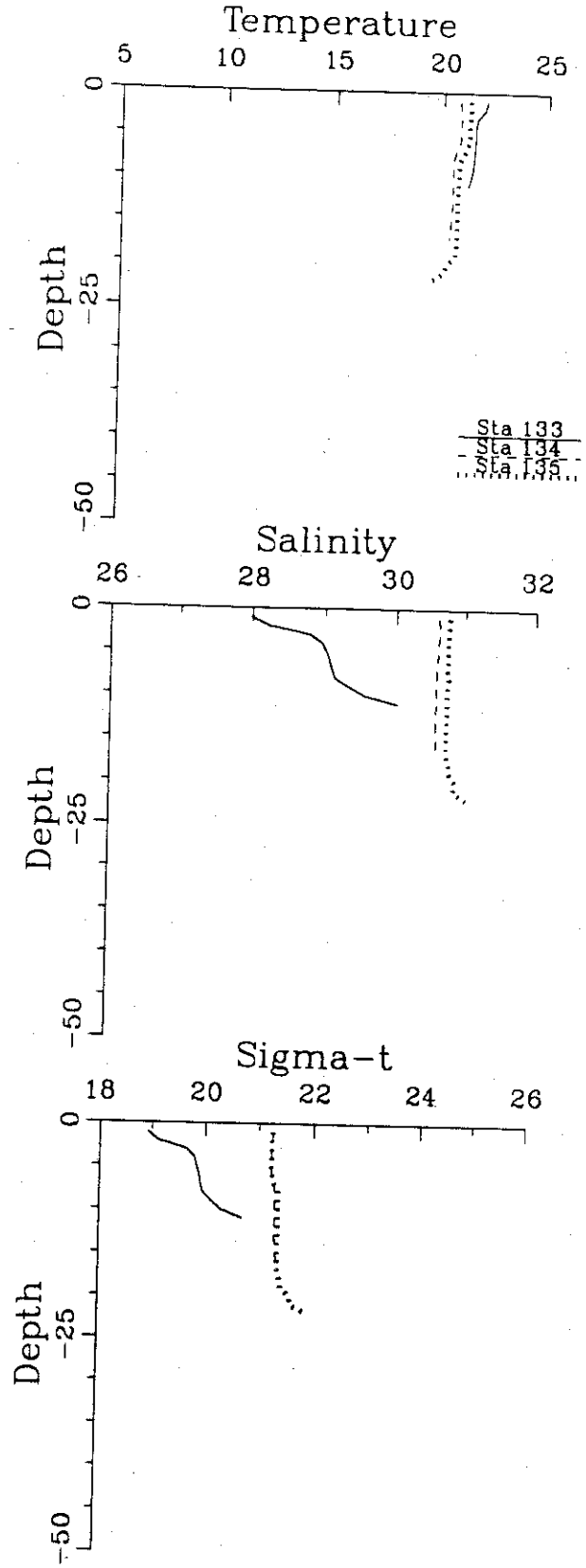
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.08	27.980	18.908	
2	21.96	28.219	19.120	
3	21.61	28.788	19.644	
4	21.53	28.955	19.792	
5	21.53	29.020	19.841	
6	21.50	29.065	19.883	
7	21.48	29.096	19.912	
8	21.45	29.140	19.953	
9	21.38	29.341	20.123	
10	21.30	29.553	20.305	
11	21.19	30.023	20.690	

Sta 134 Depth 22 M Date 8/21/89
Lat 40 28.0N Lon 73 36.0W Time 648

Depth	Temp	Salinity	Sigma-t	Oxygen
1	20.78	30.616	21.247	
3	20.83	30.620	21.237	
4	20.80	30.604	21.233	
5	20.80	30.601	21.231	
6	20.79	30.598	21.231	
7	20.57	30.591	21.283	
8	20.48	30.588	21.305	
9	20.46	30.580	21.304	
10	20.47	30.585	21.305	
11	20.47	30.584	21.304	
12	20.47	30.583	21.303	
13	20.46	30.583	21.306	
14	20.43	30.583	21.314	
15	20.39	30.586	21.327	
16	20.37	30.588	21.333	
17	20.33	30.591	21.346	

Sta 135 Depth 28 M Date 8/21/89
Lat 40 28.0N Lon 73 44.0W Time 824

Depth	Temp	Salinity	Sigma-t	Oxygen
1	21.25	30.773	21.241	
3	21.24	30.750	21.227	
5	21.22	30.742	21.226	
7	21.00	30.737	21.281	
10	20.72	30.740	21.357	
12	20.70	30.741	21.363	
15	20.70	30.736	21.359	
17	20.69	30.739	21.364	
20	20.20	30.875	21.595	
22	19.40	31.024	21.912	

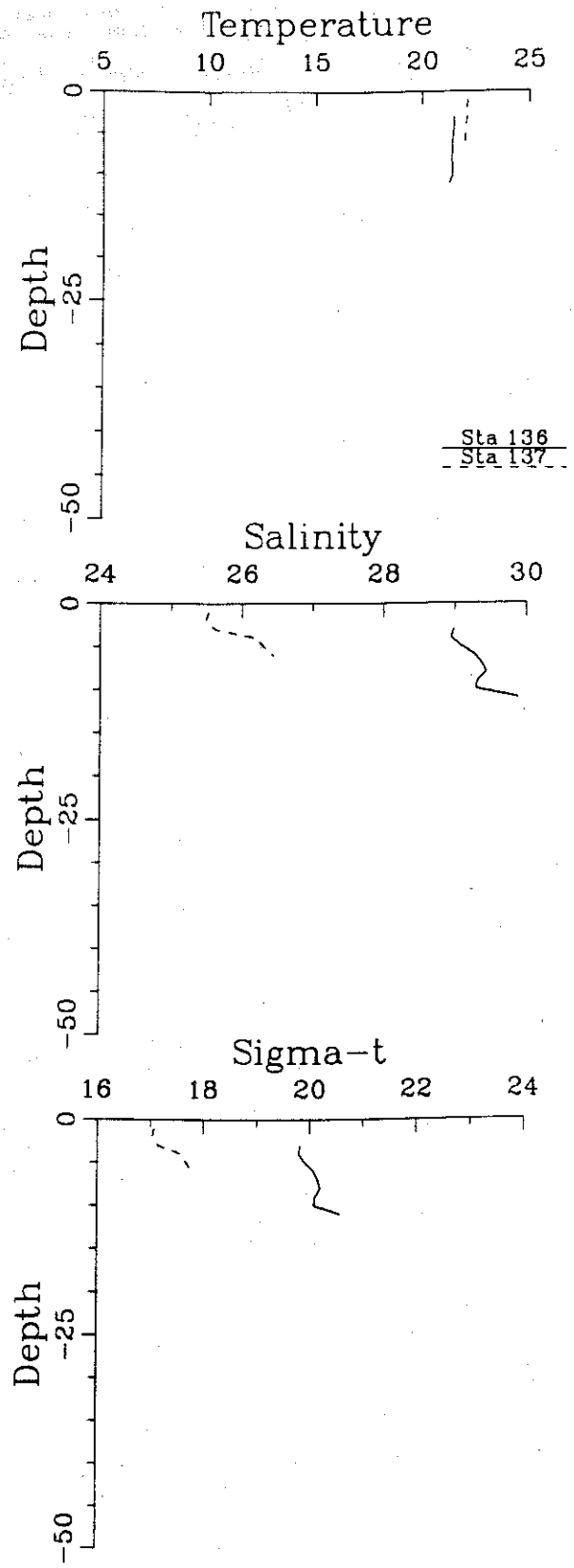


Sta 136 Depth 16 M Date 8/21/89
Lat 40 28.0N Lon 73 50.0W Time 1012

Depth	Temp	Salinity	Sigma-t	Oxygen
3	21.48	28.981	19.825	
4	21.48	28.945	19.797	
5	21.44	29.083	19.912	
6	21.39	29.280	20.075	
7	21.37	29.368	20.146	
8	21.35	29.435	20.202	
9	21.38	29.313	20.102	
10	21.38	29.292	20.086	
11	21.24	29.892	20.577	

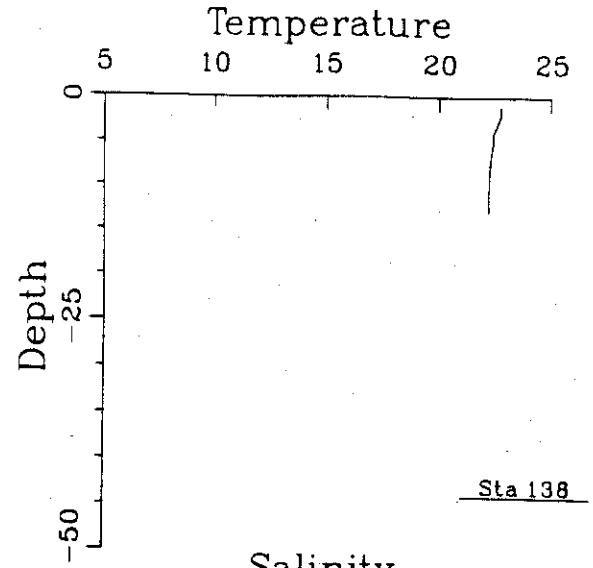
Sta 137 Depth 8 M Date 8/21/89
Lat 40 36.1N Lon 74 1.7W Time 1218

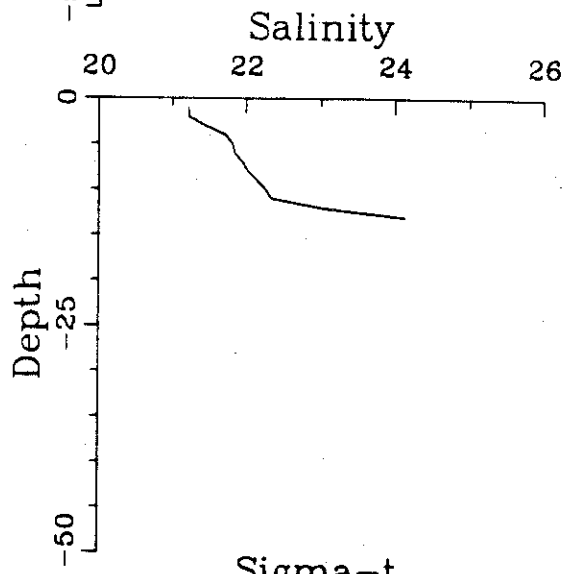
Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.09	25.528	17.056	
2	22.08	25.496	17.035	
3	22.06	25.625	17.137	
4	22.01	26.207	17.589	
5	21.99	26.304	17.668	
6	21.98	26.442	17.775	

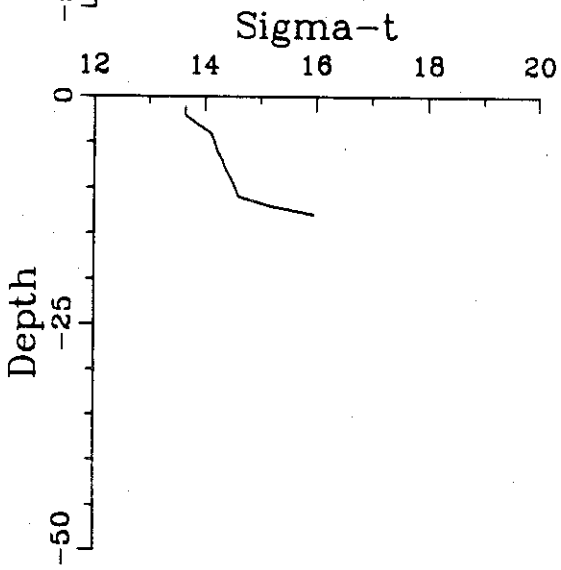


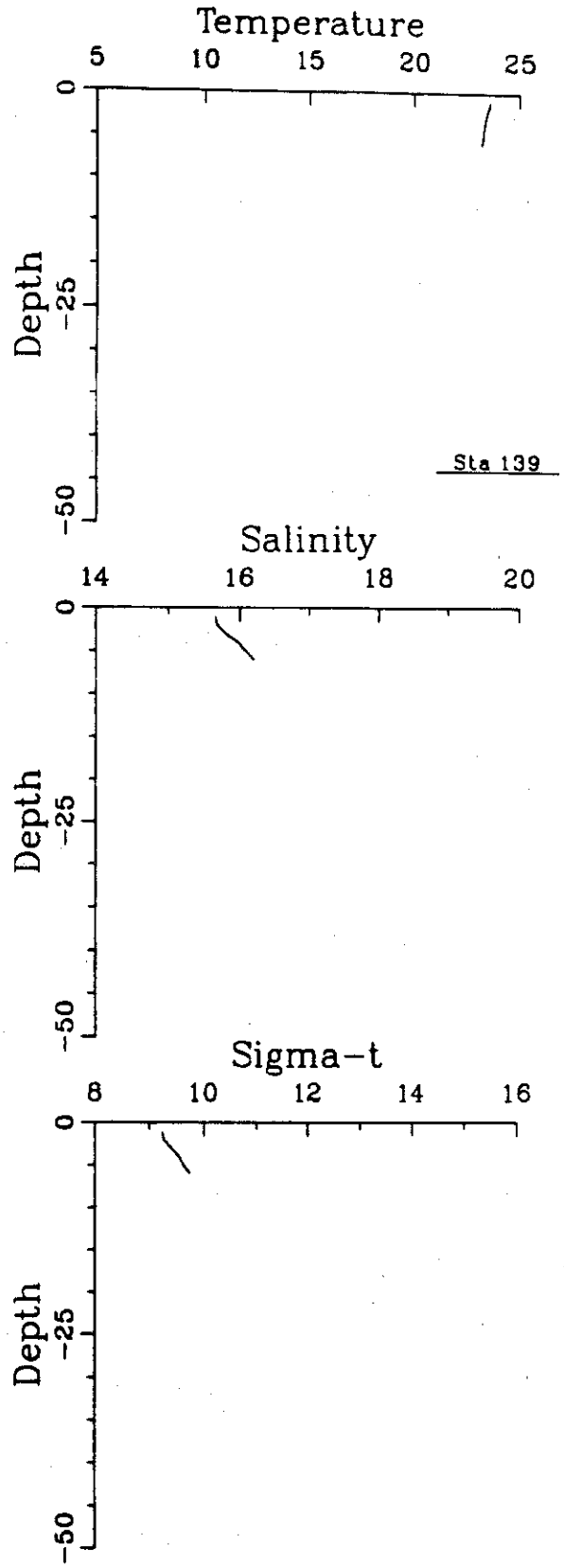
Sta 138 Depth 17 M Date 8/21/89
Lat 40 41.4N Lon 74 2.4W Time 1406

Depth	Temp	Salinity	Sigma-t	Oxygen
1	22.72	21.221	13.647	
2	22.73	21.217	13.641	
3	22.60	21.447	13.849	
4	22.43	21.727	14.104	
5	22.43	21.824	14.177	
6	22.37	21.859	14.219	
7	22.31	21.962	14.313	
8	22.26	22.032	14.379	
9	22.25	22.152	14.472	
10	22.24	22.262	14.557	
11	22.22	22.335	14.617	
12	22.22	23.049	15.155	
13	22.21	24.127	15.969	







Sta 139 Depth 11 M Date 8/21/89
Lat 40 50.9N Lon 73 57.5W Time 1624

Depth	Temp	Salinity	Sigma-t	Oxygen
1	23.63	15.660	9.228	
2	23.50	15.675	9.274	
3	23.40	15.808	9.401	
4	23.33	15.973	9.543	
5	23.28	16.068	9.628	
6	23.21	16.196	9.742