APPENDIX B.
BEAUFORT SEA MESOSCALE CIRCULATION STUDY HYDROGRAPHY
USCGC POLAR STAR CRUISE, OCTOBER 1986

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INTRODUCTION

Data presented in this report were collected in October, 1986 from the USCGC Polar Star as part of the Beaufort Sea Mesoscale Circulation Study. The cruise took place on the Beaufort Sea continental shelf and continental slope, from Barrow Canyon to the Canadian border.

Sixty three CTD casts at 58 stations were made on the cruise (Table 1). The CTDS were taken along 6 transects, each roughly perpendicular to the coast (Fig. 1). Water samples were collected with each CTD cast, using 10 l and 301 Niskin bottles. Samples were analyzed for oxygen, salinity, nutrients, suspended particulates, particulate carbon, chlorophyll, and phytoplankton (Table 2). The tabulation and plots of Table 3 show all these parameters, together with the density and light attenuation profiles. Samples were also taken for freons, tritium, and isotopes of cesium, radium, and strontium. These are being analyzed separately by other investigators.

METHODOLOGIES

The CTD system used was a Neil Brown Mark 111 equipped with a SeaTech transmissometer. Since the ambient temperature was often very cold, the CTD was usually lowered to 30-40" m to warm it before starting the cast. It was then brought to the surface, and the cast was begun.

Processing of CTD data followed the method outlined in Giles and McDougall (1986) to correct for 1) the difference in the time constants of the salinity and temperature sensors (and of the platinum temperature sensor and the thermistor) and 2) the dependence of the time constants on the CTD lowering rate. Salinity and sigma-t were calculated using the algorithms of Fofonoff and Millard (1983).

Nutrients were determined using a 5 channel Technicon Auto Analyzer 11 system and the method outlined by Whitledge *et al.* (1981). Oxygen concentration was measured by the Carpenter modification of the Winkler titration as described by Carpenter (1965). The method for the determination of the total suspended matter is standard method #208D of Standard Methods

for the Examination of Water and Wastewater (1975). Chlorophyll concentration was analyzed following the method of Parsons *et al.* (1984). Particulate carbon was analyzed with a Carlo Erba Elemental (CHN) Analyzer, model 1106.

ACKNOWLEDGMENTS

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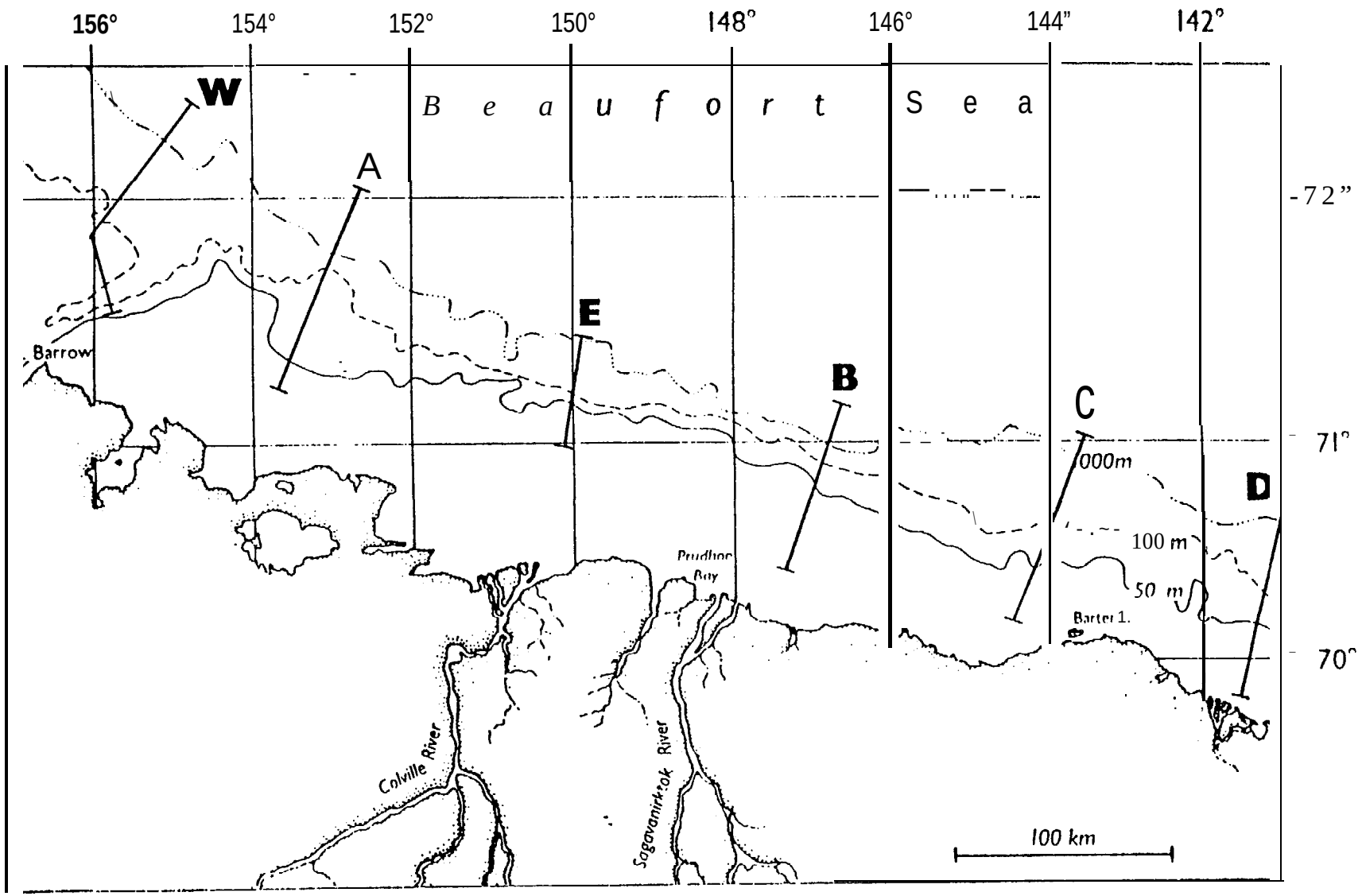


Figure 1.--Location of CTD transects.

Table 1. CTD chronology and positions. Stations A9 and A 10 were accomplished in three steps because of the number of large-volume water samples required. Time is start of cast.

Sta. Name	Cast#	Time(UCT)	N. Lat.	W. Long.	Depth
W00 1	(-)0 1	0823 03Oct	7223.7	15446.2	2315m
WO02	002	1158 030ct	7216.4	15458.8	1733m
WO03	003	1450 03Oct	7213.2	15509.0	1086m
W004	004	1822 03Oct	7208.0	15517.9	401111
WO05	005	2015 03Oct	7204.6	15529.0	263m
WO06	006	2154 03Oct	7200.0	15539.2	177111
WO07	007	2321 03Oct	7155.6	15549.7	121m
WO08	008	0042 04Oct	7150.7	15601.0	80m
WO09	009	0210 040ct	7145.0	15557.4	106m
Wolo	010	0310 040ct	7140.4	15552.9	123m
Well	011	0444 040ct	7134.6	15547.2	172m
W012	012	0552 04Oct	7132.0	15545.6	101 m
A002	013	0702 05Oct	7113.2	15340.0	27m
AO03	014	0816 05Oct	7119.4	15333.9	47m
AO04	015	0926 05Oct	7124.4	15325.9	46m
AO05	016	1027 05Oct	7129.8	15318.1	62m
AO06	017	1 130050ct	7135.5	15310.1	57m
AO07	018	1306 05Oct	7143.6	15255.2	208m
AO08	019	1447 05Oct	7146.5	15253.5	221 m
A009a	020	1 750050ct	7152.5	15231.0	1609m
A009b	021	2019 05Oct	7152.5	15226.2	1576m
A009c	022	2145 05Oct	7152.9	15225.2	1608m
AO1O	023 Wire problems; cast redone				
A010a	024	2354 05Oct	7158.5	15240.4	201 2m
A010b	025	0208 06Oct	7200.5	15242.8	2180m
AO 10c	026	0325 06Oct	7202.9	15239.3	2286m
BO02	027	1703 08Oct	7032.2	14719.5	34m
B001	028	1838 08Oct	7028.4	14720.1	27m
BO03	029	2012 08Oct	7037.0	14713.6	39111
BO04	030	2111 08Oct	7039.7	14711.6	37m
BO05	031	2230 08Oct	7046.2	14701.1	48m
BO06	032	2343 08Oct	7050.4	14656.6	52m
BO07	033	0100 09Oct	7055.0	14649.9	107m
BO08	034	0228 09Oct	7058.2	14641.55	983m
BO09	035	0521 090ct	7103.4	14639.4	1693m
BO1O	036	0859 09Oct	7108.9	14636.4	2037m

Table 1. Continued

Sta. Name	Cast#	Time(UCT)	N. Lat.	W. Long.	Depth
C005a	037	07431 loct	7033.6	14404.2	62m
CO06	038	0948 110ct	7039.0	14355.5	305m
CO07	039	12221 1Oct	7045.4	14346.8	474m
CO08	040	1506 11Oct	7050.8	14340.7	860m
CO09	041	1803 11Oct	7056.2	14339.0	1479m
Colo	042	2223 11Oct	7101.2	14333.6	1608m
CO05b	043	0825 12Oct	7033.8	14405.0	61m
CO04	044	0950 12Oct	7027.7	14411.0	50m
CO03	045	1433 12oct	7021.4	14417.2	45m
CO02	046	1606 12Oct	7014.4	14422.9	35m
coo 1	047	1737 12Oct	7010.2	14430.4	24m
DOO1	048 Rosette frozen; cast redone				
DOO 1	049	0230 13Oct	6950.8	14132.1	26m
DO02	050	0347 13Oct	6953.8	14130.0	35m
DO03	051	0606 13oct	7000.2	14125.8	44m
DO04	052	0725 130ct	7006.6	14126.2	51m
DO05	053	0847 13Oct	7013.0	14123.3	52m
DO06	054	1039 13Oct	7020.0	14121.2	66m
DO07	055	1239 13Oct	7025.6	14120.0	359m
DO08	056	1612 13Oct	7032.4	14120.5	518m
DO09	057	2006 13Oct	7039.0	14119.0	1177nl
DOlO	058	2207 14Oct	7043.0	14059.3	1758m
EOO1	059	1857 16Oct	7100.0	15006.6	27m
EO02	060	2008 16Oct	7104.8	15004.0	35m
EO03	061	2050 16Oct	7106.6	15002.6	41m
EO04	062 Rosette frozen; cast redone				
EO04	063	2243 16Oct	7112.0	14959.6	62m
EO05	064	0026 17Oct	7116,6	14956.9	700m
EO06	065	0155 17Oct	7121.1	14954.6	1421m
EO07	066	0506 17Oct	7124.9	14955.1	1780m

Table 2. Discrete samples taken at each CTD station.

Sta.	02	Sal	Nut	Susp	Chl	Phyto
W 1	7	2	7			
W2	9	3	9			-
W3	10	3	10	4	4+	4
W4	7	2	7			
W5	5	1	5			
W6	5	2	5	4		
W7	4	2	4		-	
W8	7	2	7	3	6	6
W9	4	2	4	-	-	
W10	7	2	7	3	4	4
W11	4	1	4		-	-
W12	6	2	6	4	6	6
A2	2	1	2	4	-	
A3	6	1	6	4	6	6
A4	3	2	3		-	
A5	6	2	6	4	6	6
A6	3	3	3		-	
A7	7	2	7	4	6	6
A8	6	4	6			-
A9	11	16	11	4	5+	5
AlO	12	18	12	-		
B1	2	1	2	4		
B2	6	6	6			
B3	2	1	2	4		
B4	3	1	3	-		-
B5	6	1	6	4	6+	6
B6	6	2	6	4	6	6
B7	7	2	7	4	6+	6
B8	7	4	7	-		-
B9	12	2	12	4	6	6
B10	12	3	12			-
c l	2	1	2	4		
C2	3	1	3	4		-
C3	6	1	6	4	6+	6
C4	6	2	6	4	6	6
C5	4	2	4			
C6	7	1	7	3	5+	5
C7	7	2	7			
C8	9	2	9		-	-
C9	8#	2	12	4	6	6
Clo	12	3	12			

Table 2. Continued

Sta.	O_2	Sal	Nut	Susp	Chl	Phyto
D1	2	1	2	-		
D2	3	1	3	4		
D3	3	1	3	3	-	-
D4	6	1	6	4	6	6
D5	7	2	7	4	6	6
D6	4	2	4	-		-
D7	8	2	8	4	6+	6
D8	9	2	9	-		-
D9	12	2	12	3	6	6
D1O	12	4	12			
E1	3	2	3	-	-	-
E2	5	2	5	4	5	5
E3	3	2	3			-
E4	7	2	7	6	6	6
E5	15	2	15	4	6+	5
E6	12	3	12	4	6	
E7	12	3	12	-		
Total	381	147	385	125	137	130

Water was frozen in some of the Niskins at C9. Therefore, O_2 samples were not taken from the top 4 bottles.

+ At these stations one or more of the chlorophyll samples was damaged during shipping or processing.

In Table 3 (pages 10-83), the symbol * next to a salinity or temperature value indicates that on the downcast for the CTD station vertical salinity or temperature gradients were respectively greater than 0.1 m^{-1} or 0.2°C m^{-1} within one meter of the sample depth. Since the water samples were taken from bottles whose center was roughly 1.5 m above the CTD sensors, one should be cautious in associating precisely the given temperature or salinity value with the bottle data. Some casts also suggested large horizontal gradients in salinity and temperature: due to ship drift between the downcast and upcast, salinity or temperature values determined during the upcast were significantly different than those of the downcast. These values are not starred, since the numbers given indicate the conditions on the upcast, when the water samples were taken.

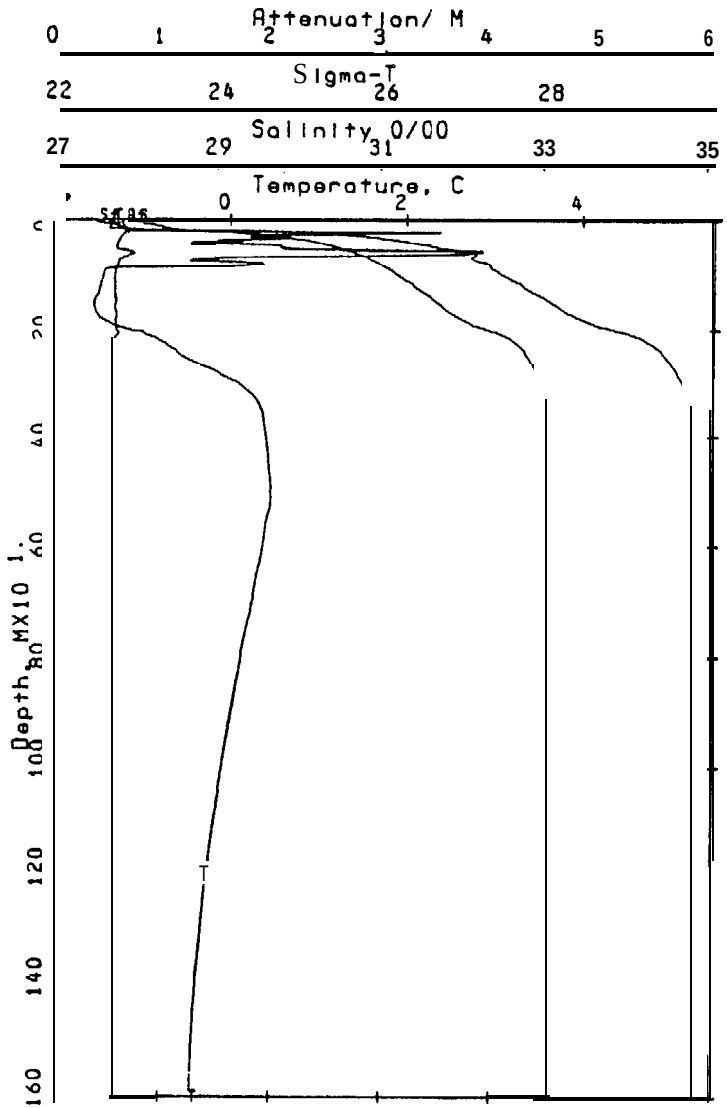
Replicate chlorophyll samples were taken; both values are presented in the table.

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
Wol	01	03 OCT 86	0823	7223.40N	154 46.40W	2315 M

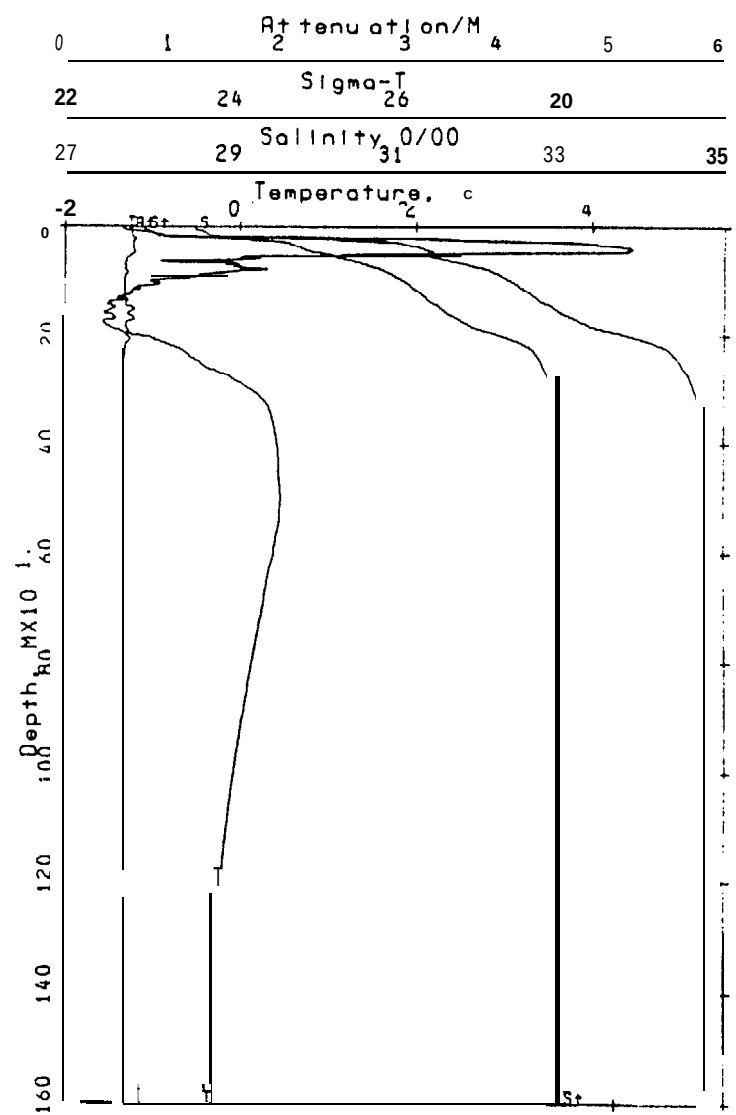
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
8.6	-1.385	28.493	22.888	8.43		0.70	0.08	0.08	0.07			0.61	
154.4	-1.560	33.093	26.625	6.61	34.68	1.77	14.20	0.09				0.52	
305.3	0.162	34.729	27,879	6.31	11.03	0.94	12.50	0.09				0.52	
505.8	0.477	34.866	27.971	6.57	9.30	0.94	12.74	0.08	0.14			0.53	
705.3	0.256	34.886	28.000	6.44	8.68	0.97	12.70	0.06	0.29			0.53	
1004.8	-0.084	34.902	28.032	6.73	8.98	0.96	12.74	0.08	0.22			0.54	
1256.2	-0.250	34.913	28.049	5.96	9.46	0.98	12.98	0.08	0.22			0.54	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W02	02	03 OCT 86	1159	72 18.00N	154 58. 10W	1733 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml 1^{-1}	SiO_4 µm l^{-1}	PO_4 µm 1-*	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm 1-*	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1^{-1}
4.2	-1.406	28.628	22.998	8.51	2.77	0.58	0.00	0.02	0.00			0.60	
47.7	-0.265	31.239	25.081	8.15	5.14	0.80	0,49	0.09	0.01			0.56	
149.3	-1.513	32.956	26.512	6.63	29.72	1.81	12.49	0.10	0.34			0.56	
198.4	-1.258	33.768	27.163	5.90	30.50	1.74	14.26	0.04	0.00			0.54	
497.9	0.472	34.863	27.969	6.55	7.33	0.84	12.40	0.03	0.00			0.53	
698.8	0.261	34.888	28.001	6.62	7.98	0.81	12.29	0.02	0.00			0.54	
999.0	-0.065	34.901	28.030	6.86	7.95	0.84	12.41	0.02	0.00			0.54	
1249.3	-0.213	34.914	28.048	6.89	9,26	0.91	12.75	0.02	0.00			0.56	
1578.8	-()).37()	34.925	28.065	6.61	9.37	0.91	13.44	().02	0.00			0.58	



Ref. no. 1 Sta. w01 72.39 N
Time= 862760823 Beaufort 154.77 W



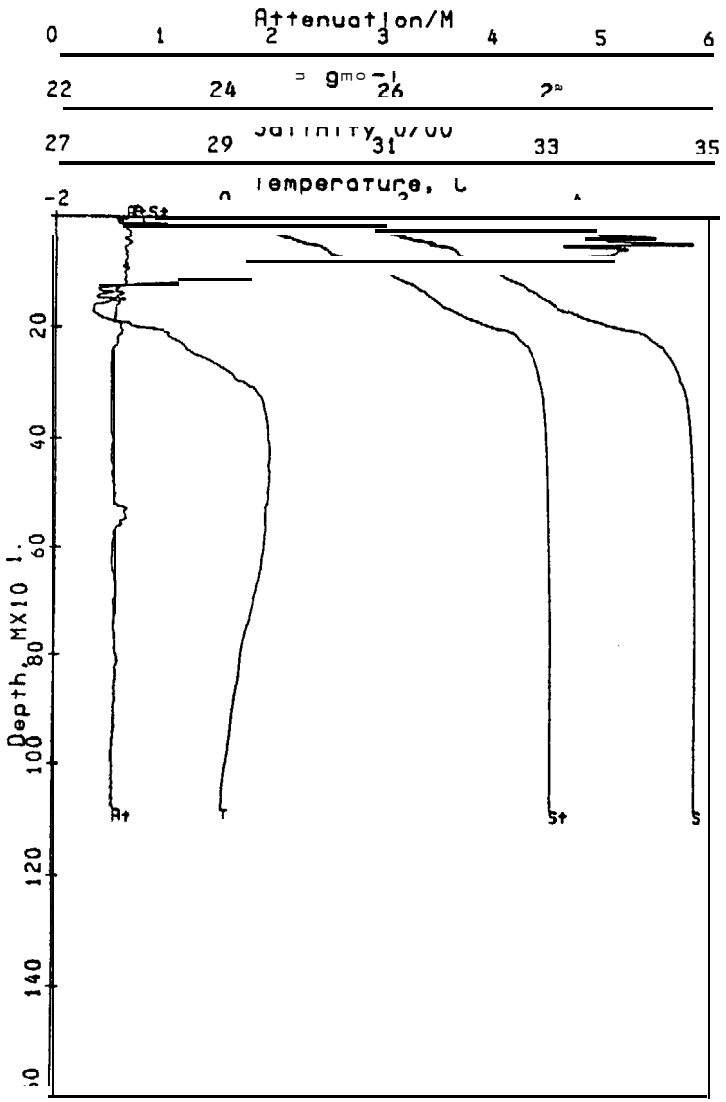
Ref. no. 2 Sta. w02 72.30 N
Time= 862761159 Beaufort 1s4.97 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W03	03	03 OCT 86	1456	72 12.80N	155 09.00W	1086 M

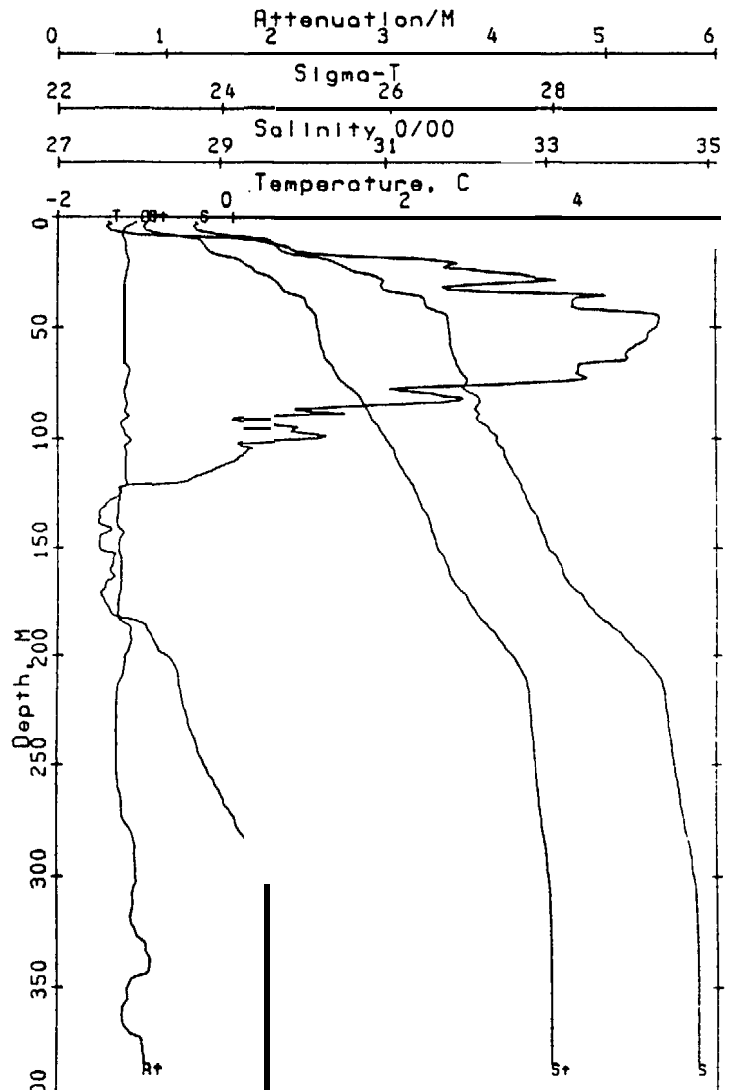
PRESS db	TEMP °c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.4	-1.376	28.719	23.071										0.58
4.1	-1.373	28.701	23.056	8,50	2.14	0.64	0.03	0.02	0.00	0.6645	161	0.58	1.3
9.5	-1.354	28.731	23.081	8.44	4.25	0.64	0.03	0.02	0.00		292	0.59	.8
27,9	4.165*	31.133	24.695	6.95	5.55	0.65	0.02	0.03	1.26		191	0.69	
48.2	4.639*	31.708	25.104	6.97	6.46	0.67	0.02	0.04	1.67		231	0.69	
99.2	1.132	32.285	25.855	7.44	13.09	1.11	3.28	0.08	1.86	0.6605	201	0.66	
148.4	-1.252	32.976	26.521	6.97	26.37	1.65	10.02	0.17	1.57			0.59	
198.6	-1.098	33.865	27.237	6.35	10.38	0.82	12.33	0.02	0.00			0.58	
298.8	0.123	34.720	27.873	6.41	10.23	0.87	12.34	0.02	0.00			0.53	
599.3	0.379	34.878	27.987	6.74	7.01	0.79	12.17	0.02	0.00	0.8085		0.54	
1072.2	-0.064	34.904	28.032	6.78	7.65	0.81	12.40	0.02	0.00	1.0355		0.59	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W04	04	03 OCT 86	1822	7207.90N	155 18.00W	0397 M

PRESS db	TEMP °c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm 1-'	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	Cl ILR-A µg l"'
4.6	-1.380	28.647	23.013	7.73	1.89	0.64	0.07	0.01	0.00			0.59	
19.4	1 .055*	30.136*	24.133	8.53	3.20	0.55	0.07	0.02	0.30			0.65	
49.6	4.775	31.791	25.156	6.72	3.57	0.56	0.00	0.03	0.46			0.64	
99.2	0.682*	32.278	25.875	7.57	6.21	0.61	0,00	0.03	1.68			0.61	
148.6	-1.508	33.017	26.561	6.67	30.79	1.80	12.43	0.08	0.40			0.55	
199.0	-0.814	34.139	27,449	6.10	25.58	1.33	13.40	0.13	0.00			0.61	
384.8	().39 l	34.865	27.976	6.68	10.13	0.85	12.08	().()4	0.00			().97	



Ref. no. 3 Sta. w03 72.21 N
Time = 86276 456 Beaufort 55.15 W



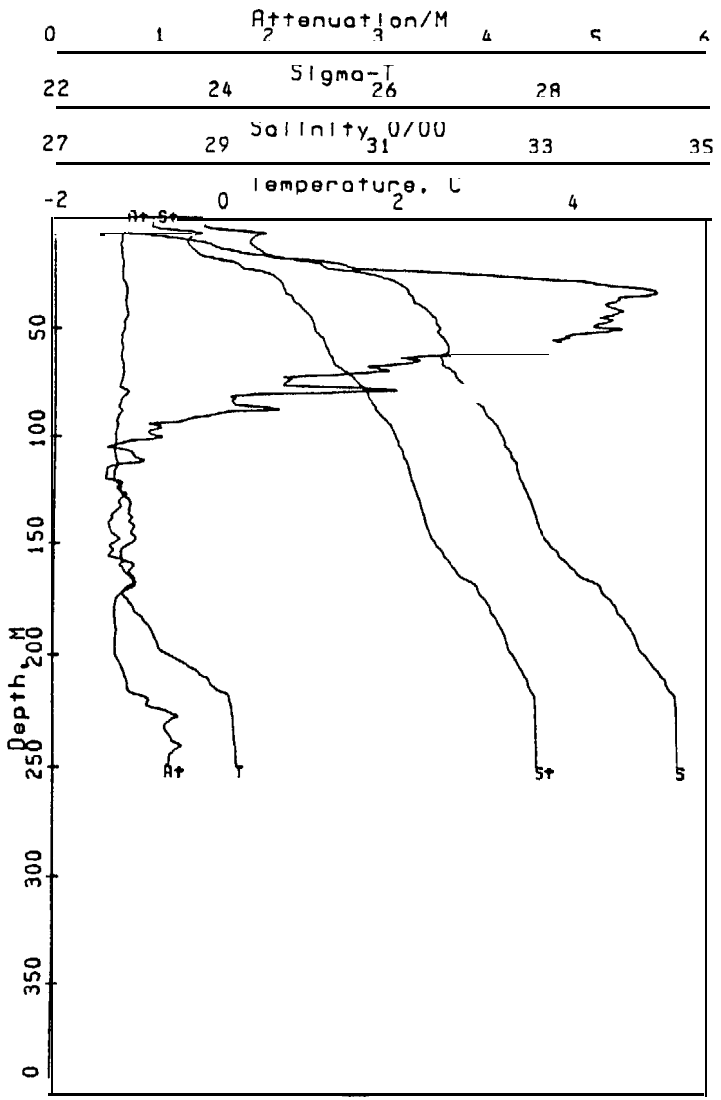
Ref. no. 4 Sta. w04 72.13 N
Time = 862761822 Beaufort 55.30 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W05	05	03 OCT 86	2015	7204.50N	155 29.00W	0263 M

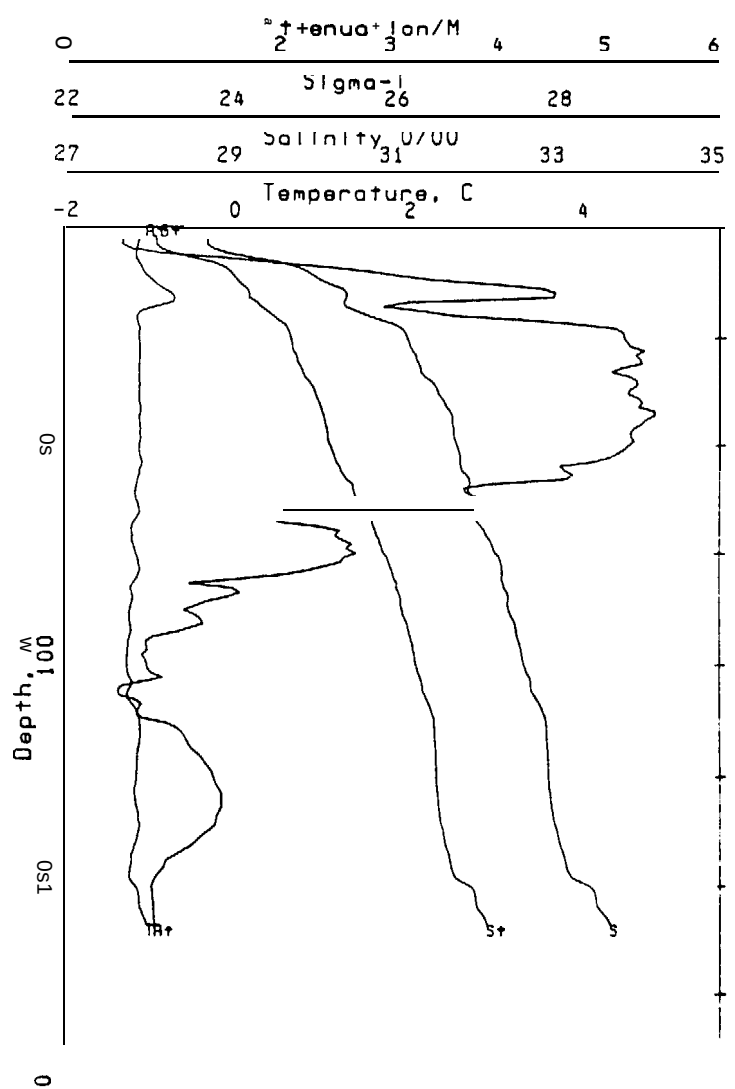
PRESS db	TEMP ‘c	SAL	SIGMA-T	O_2 ml 1-^{1}	SIO_4 µm l^{-1}	PO_4 µm 1^{-s}	NO_3 µm 1^{-1}	NO_2 pm 1^{-1}	NH_3 µm 1^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
19.2	0.991*	29.828*	23.889	8.26	2.40	0.52	0.24	0.03	0.00			0.63	
49.8	4.377*	31.756	25.170	7.17	5.05	0.65	0.50	0.04	1.22			0.63	
100.9	-1.166	32.558	26.180	7.23	22.04	1.51	9.78	0.08	0.31			0.56	
149.3	-1.286	33.112	26.633	6.78	29.04	1.79	12.30	0.15	0.92			0.70	
249.1	0.114	34.732	27.884	6.71	14.41	1.07	12.72	0.18	0.00			1.06	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W06	06	03 OCT 86	2156	7200.00N	155 39.20W	0177 M

PRESS db	TEMP “c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 pm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.9	0.158*	29.477*	23.644	5.35	2.95	0.60	0.31	0.02	0.16	0.5150	220	0.63	
19.6	4.106*	31.125*	24.695	5.62	5.09	0.61	0.28	0.04	0.05			0.64	
49.5	4,469	31.845	25.230	5.50	5.05	0.60	0.29	0.07	0.00	0.9755	163	0.66	
98.6	-1.073	32.646	26.248	5.73	19.99	1.48	7.68	0.14	0.00	1.5770	78	0.56	
159.1	-1.061	33.746	27.139	6.33	28.02	1.71	13.25	0.18	0.20	1.9310	123	0.93	



Ref. no. 5 Sta. w05 72.08 N
Time = 862762 Beaufort 55.48 W



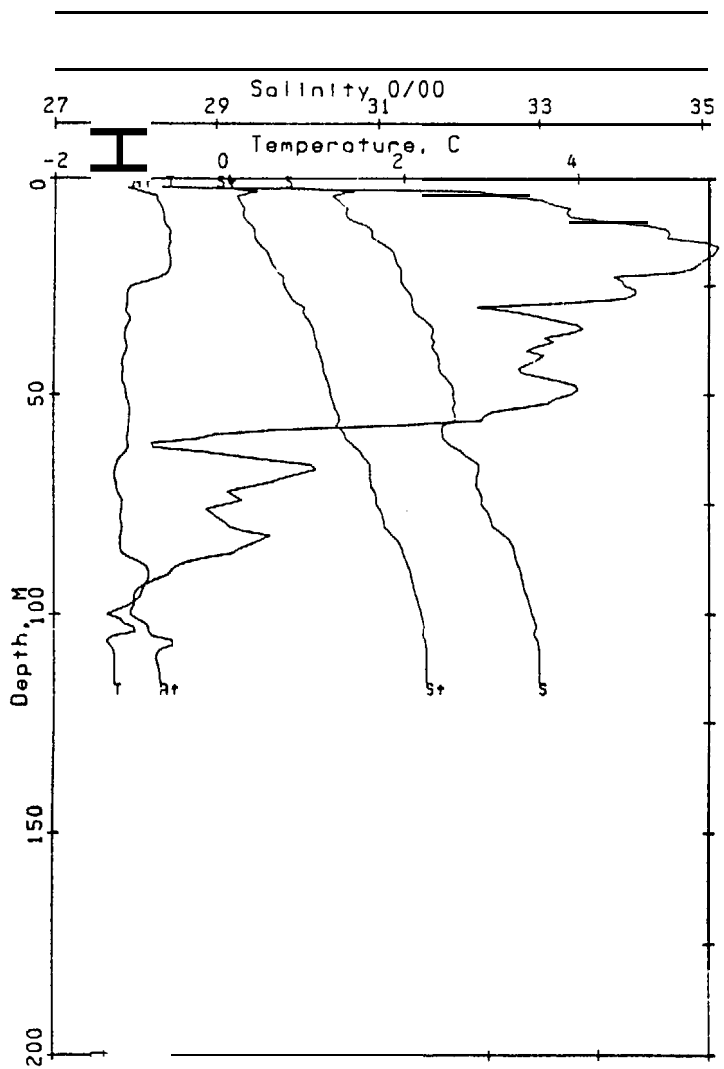
Ref. no. 6 Sta. w06 72.00 N
Time = 862762 56 Beaufort 155.65 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W07	07	03 OCT 86	2321	71 55.60N	155 49.70W	0121 M

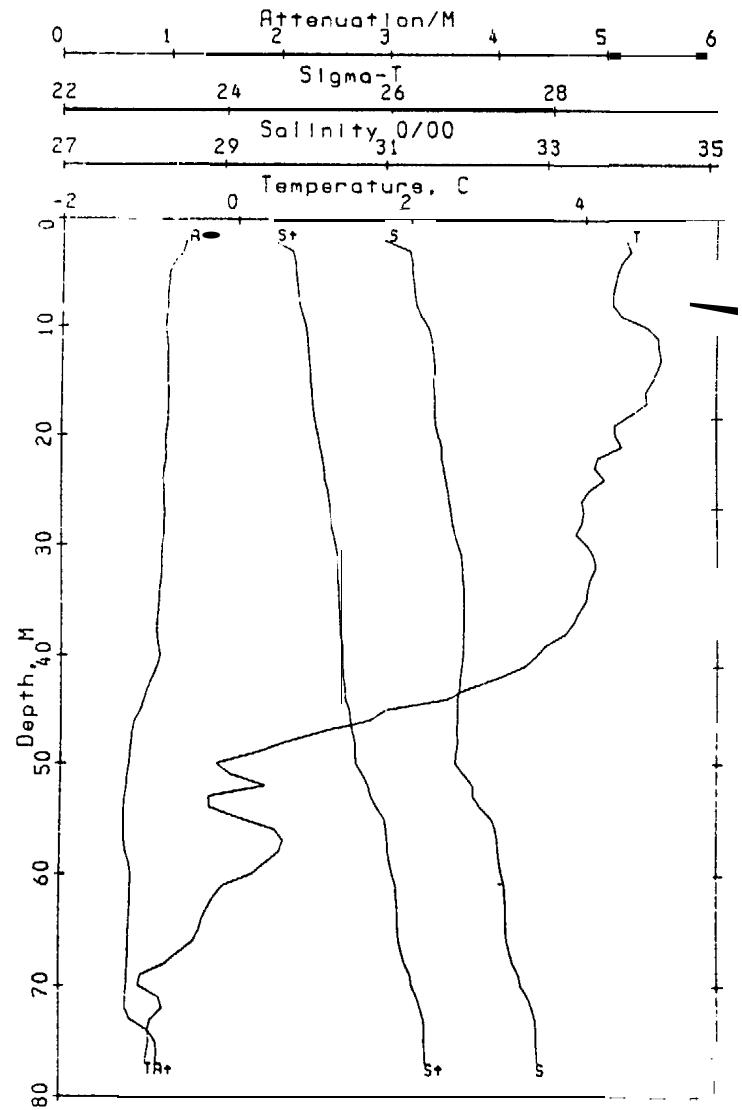
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	Pc µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.5	2.3 14*	29.711*	23.716	6.50	8.11	0.92	0.44	0.07	0.30			0.85	
18.7	5.501	31.215	24.621	6.89	8.33	0.89	0.42	0.07	0.32			1.05	
48.5	3.952*	31.891	25.318	6.89	6,37	0.80	0.58	0.07	0.36			0.69	
111,2	-1.295	33.010	26.550	6.29	27.97	1.92	10.08	0.24	0.32			0.99	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W08	08	04 OCT 86	0044	71 50.80N	156 OI.1OW	0080 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm 1^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm 1^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.5	3.271	30.602	24.354	7.32	9.59	0.97	0.29	0.07	0.20		108	1.12	.4 .6
3.7	4.814	30.986"	24.514	7.19	10.71	1.02	0.38	0.08	0.27		86	1.02	.7 .4
8.8	4.369*	31.398	24.886	6.92	10.68	1.06	0.36	0.08	0.36		191	0.94	.3 .3
18.7	4.685	31.666	25.067	6.94	10.38	0.99	0.39	0.09	0.32		146	0.95	.() .3
28.4	4.050	31.805	25.240	6.98	9.71	0.92	0.38	0.08	0.32	1.4270	492	0.9 1	.2
48.4	1.833	32.003	25.583	7.47	7.88	0.89	1.30	().07	().23	1.3590	98	0.63	.2
71.5	-0.862	32.545	26.159	7.23	21.18	1.66	7.85	0.17	0.27	0.8635	125	0.60	



Ref. no. 7 Sta. w07 71.93 N
Time = 862762322 Beaufort 155.83 W



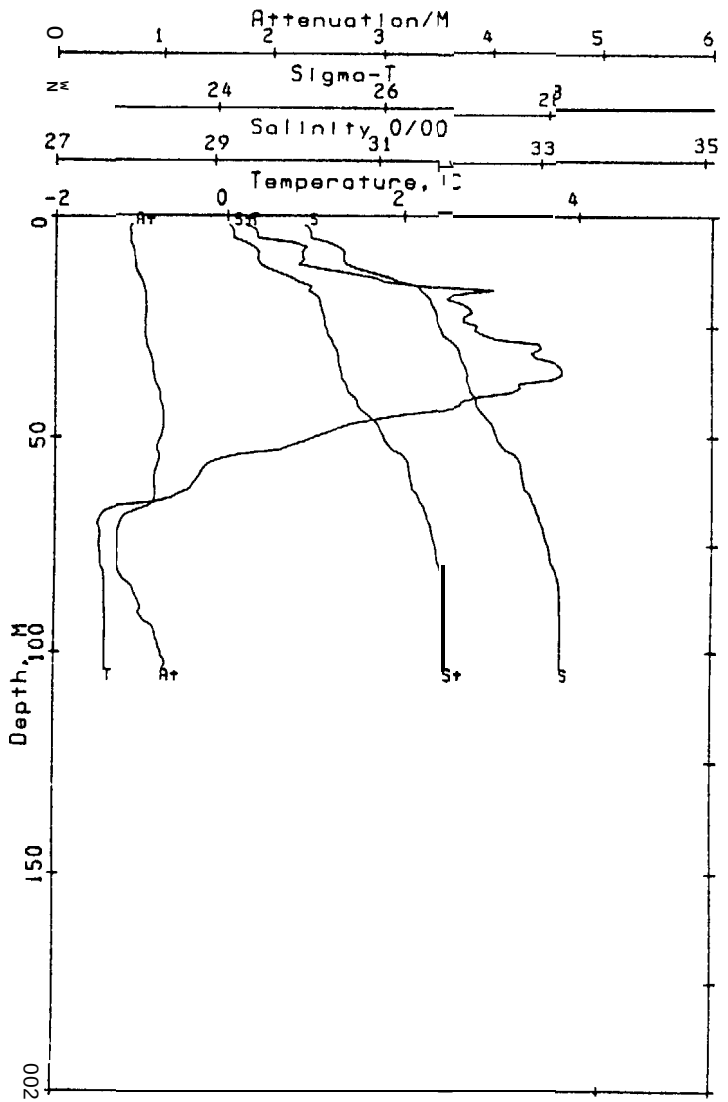
Ref no. 8 Sta. w08 71.85 N
Time = 862770044 Beaufort 156.02 W

STATION	CAST	DATE	TLME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W09	09	04 OCT 86	0211	71 45.00N	155 56.30W	0106 M

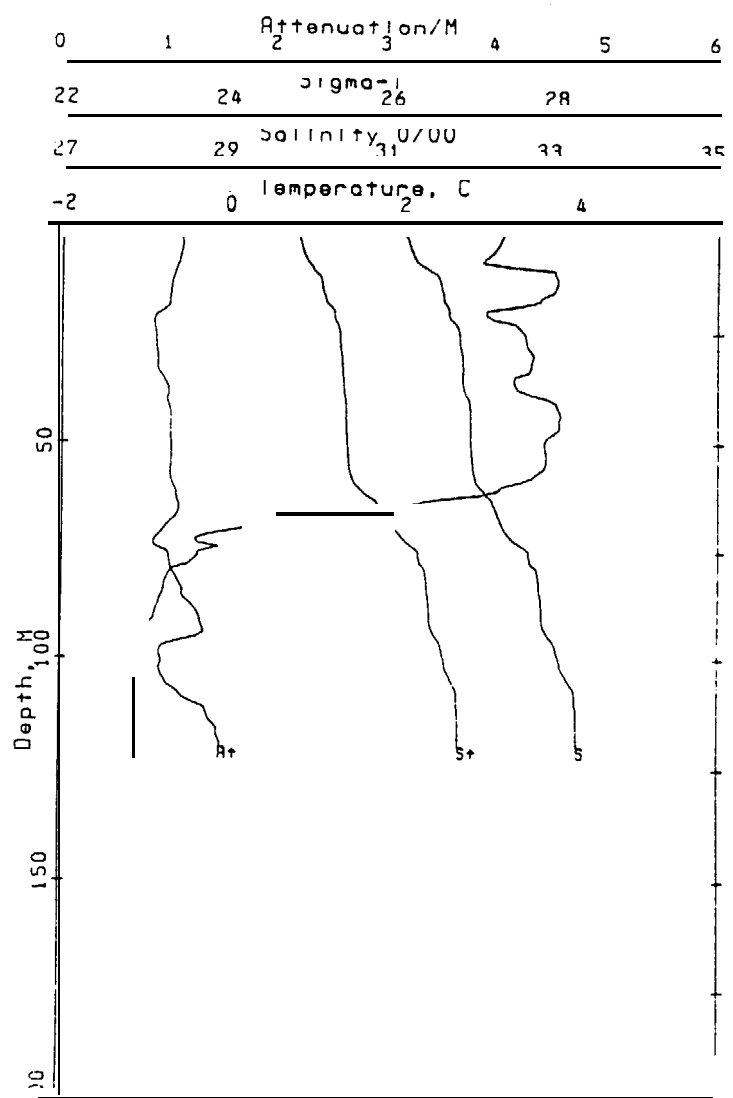
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-[illegible]	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.7	0.705*	30.268'	24.257	8,09	2.57	0.53	0.00	0.03	0.02			0.72	
18.4	1 .860*	31 .430*	25.122	7,53	3.08	0.64	0.00	0.05	0.05			0.83	
48.7	1.400	32,414	25.941	7.50	9.49	1.16	2.30	0.11	0.00			0.99	
99.5	-1.413	33.270	26.764	6.75	29.33	1.88	12.11	0.11	0.05			0.94	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W10	10	04 OCT 86	0310	7140.30N	155 52.80W	0123 M

PRESS db	TEMP *c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-[illegible]	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.7	0.998	30.563	24.479	7.49	6.81	0.90	0.06	0.08	0.00		284	0.76	.6
					7.33	0.9 I	0.05	0.08	0.00				.8
4.2	2.972	31.452	25.056									1.04	
19.0	2.844	31.772	25.322	7.32	3.50	0.64	0.07	0.05	0.00		198	0.84	.5
													.7
29.4	3.398	31.968	25.431	7.19	3.37	0.60	0.06	0.05	0.00	1.3275	171	0.92	.5
													.3
49.5	3.517	32.071	25.502	7.14	5.56	0.79	0.21	0.06	0.00		94	0.98	.6
													.3
99.3	-1.218	33.133	26.647	6.73	26.94	1.98	10.87	().25	0.05	0.9170	147	0.89	
113.0	-1.136	33.386	26.850	6.55	28.35	1.92	11.48	0.21	0.07	2.0145	114	1.42	



Ref. no. 9 Sta. 009 71.75 N
Time = 862770211 Beaufort 55.94 W



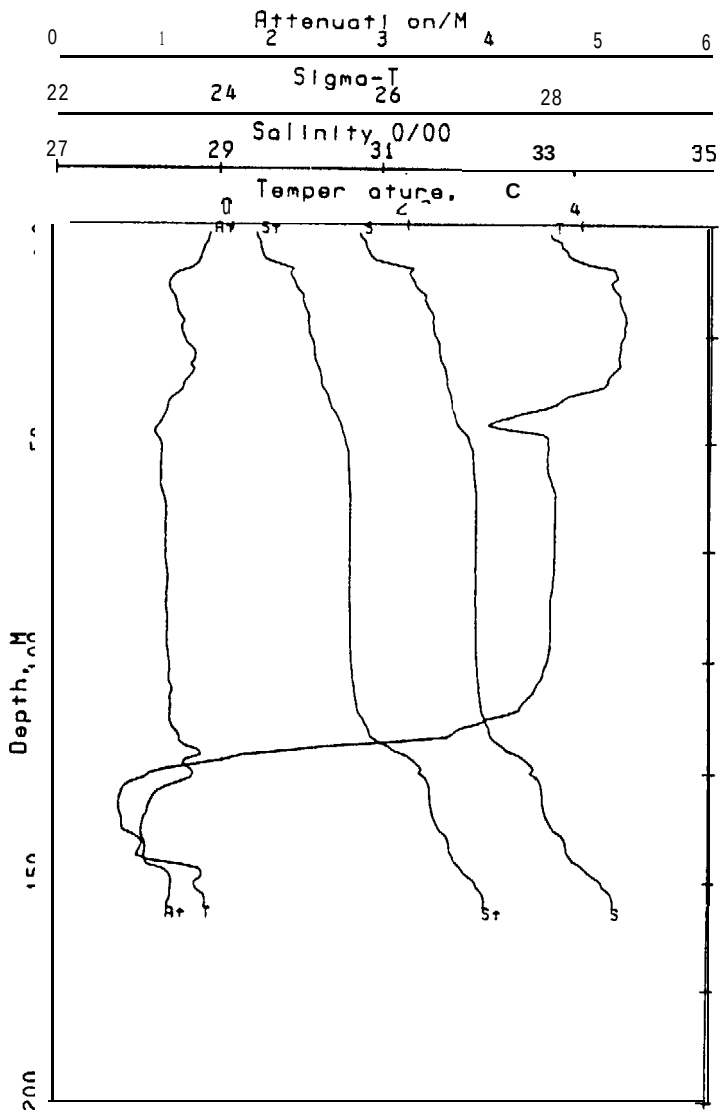
Ref. no. 10 Sta. 010 71.67 N
Time = 862770310 Beaufort 55.88 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W11	11	04 OCT 86	0444	71 31.50N	155 47.60W	0172 M

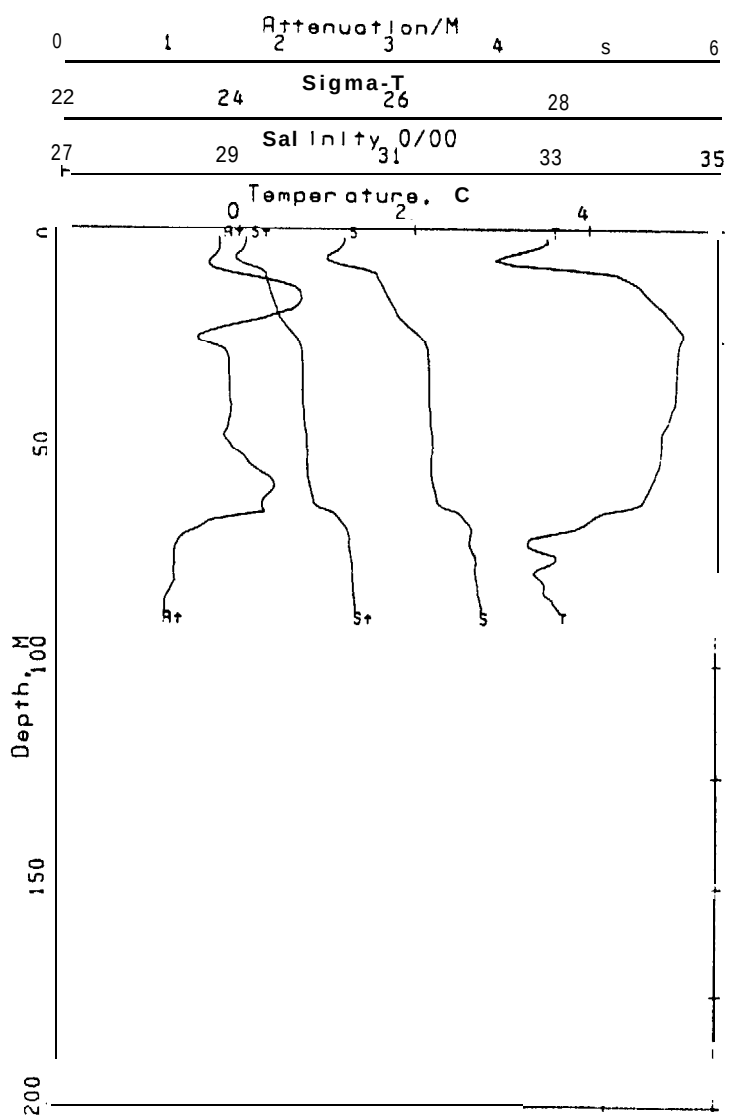
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l-'	LT.AT m^{-1}	CHLR-A µg l-'
19.4	4.523	31.627	25,053	7.24	9.67	1.04	0.10	0.09	0 . 0 7			1.08	
49.3	3.630*	32.102	25.516	7.10	7.63	0.83	0.11	0.07	0.14			0,95	
79.6	3.714	32.206	25.592	7.15	10.19	0.87	0.15	0.09	0.00			0.99	
155.7	-0.258	33.922	27.248	6.71	10.20	0.94	0.14	0.09	().()0			1.02	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
W12	12	04 OCT 86	0552	71 32. ION	155 45.70W	0101 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 pm 1"'	NO_2 µm 1'1	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.1	3.041	30.261	24.101	7.41	10.59	0.86	0.00	0.08	().14		124	1.33	I.() .8
4.4	2.887	30.211	24.073	7.42	10.34	0.86	0.00	0.09	0.14	1.9865	156	1.34	1.1 .8
9.5	4.1OO*	30.665"	24.330	7.28	11.63	0.94	0.05	0.09	0.14		499	1.43	.6 .9
19.5	4.854	31.072	24.578	7.09	12.02	1.00	0.22	0.09	0.23	2.5365	142	1.93	.8 .6
29.6	5.036	31.472	24.876	6.89	12.02	0.96	0.38	0.10	0.18	1.9370	140	1.46	.6 .6
87,5	3.713	32.178	25.569	7.17	7.93	0.76	0,28	0.07	0.23	1.6860	118	0.98	.4 .8



Ref. no. 11 Sto. w11 71.52 N
time = 862770444 Beaufort 155.79 W



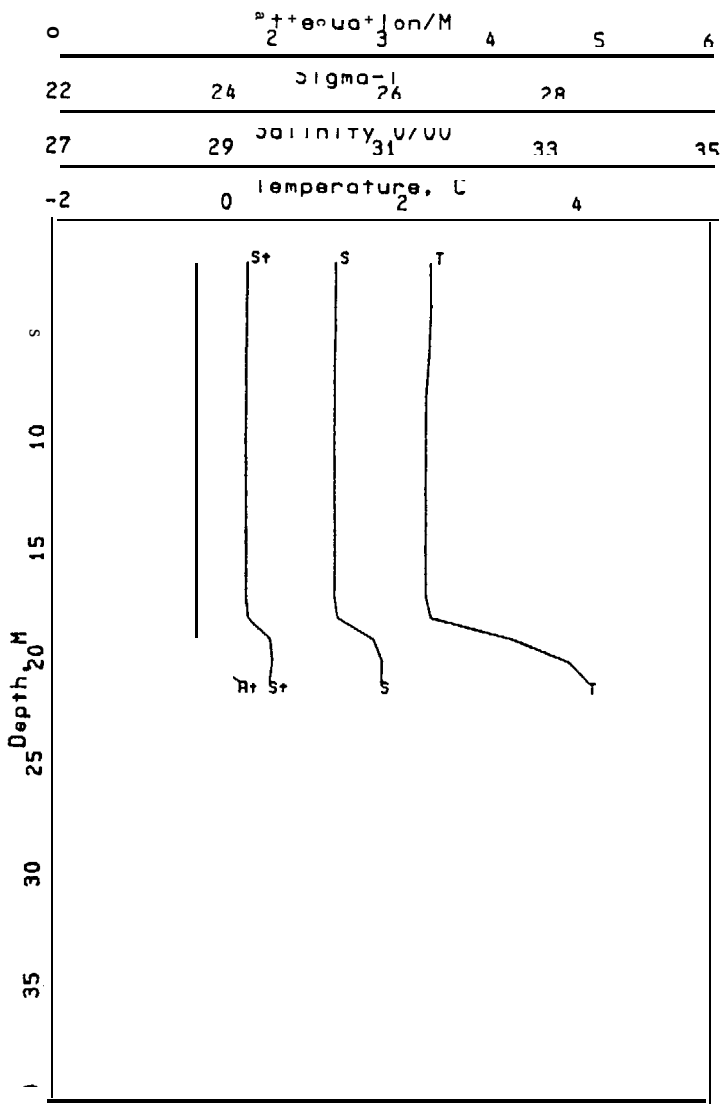
Ref. no. 12 Sta. w12 71.54 N
Time = 862770SS2 Beaufort 155.76 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A02	13	05 OCT 86	0702	71 13.30N	153 40.00W	0027 M

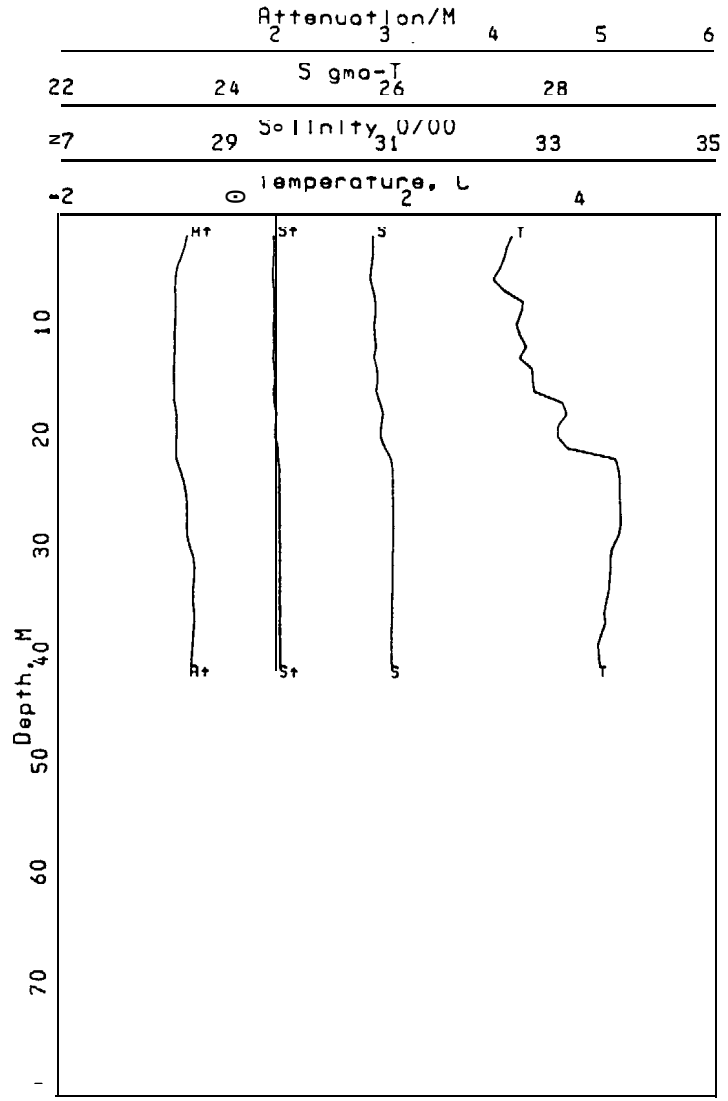
PRESS db	TEMP *C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.8	2.256	30.460	24.318	7,52	6.74	1.02	0.14	0.03	0.63	1.9815		1.27	
7.3	2.245	30.460	24.319							1.9760		1.29	
10.2	2.263	30.461	24.319							2.0915		1.29	
21.3	4.115*	31.018”	24.609	7.21	8.12	0,99	0.22	0.03	1.26	2.6560		1.77	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A03	14	05 OCT 86	0816	71 19.40N	153 33.90W	0047 M

PRESS db	TEMP “c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.1	2.872	30.812	24.554	7.25	6.80	0.85	0.14	0.03	1.16	1.2855	380	0.98	.9 .8
4.5	2.806	30.788	24.539	7.34	6.91	0.94	0.15	0.03	1.29		239	0.98	1.0 .7
9.5	3.137*	30.s9.3	24.597	7.31	7.59	1.00	0.16	0.03	I.34		178	0.99	.9 .6
19.1	4.373*	31.098	24.647	6.88	8.97	0.94	0.16	0.02	1.80	1.7060	228	1.05	.s .8
29.1	4.314	31.108	24.661	6.98	8.80	0.94	0.21	0.02	1.99	2.1395	369	1.18	.s .7
40.3	4.152	31.088	24.601	7.02	8.91	0.95	0.22	0.02	1.97	1.7915	255	1.21	.7 .0



Ref. no. 13 Sta. a02 71.22 N
Time = 862780702 Beaufort 53.67 W



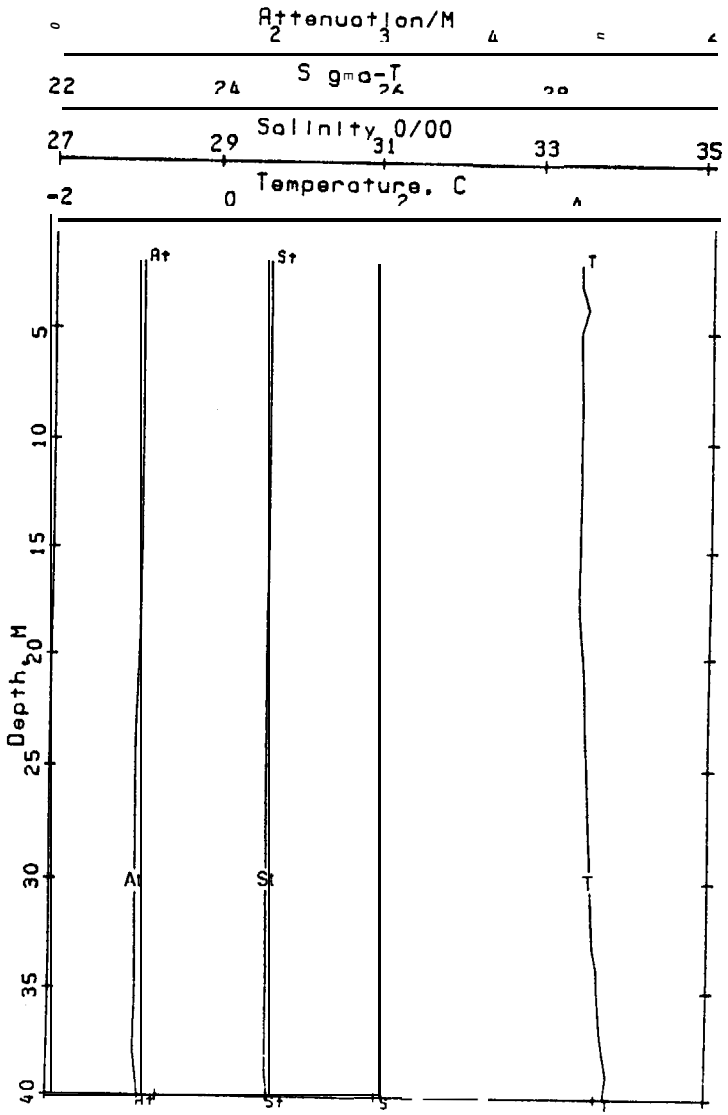
Ref. no. 4 Sta. a03 7 .32 N
Time = 862780816 Beaufort 53.56 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A04	15	05 OCT 86	0926	7 124.40N	153 25.90W	0046 M

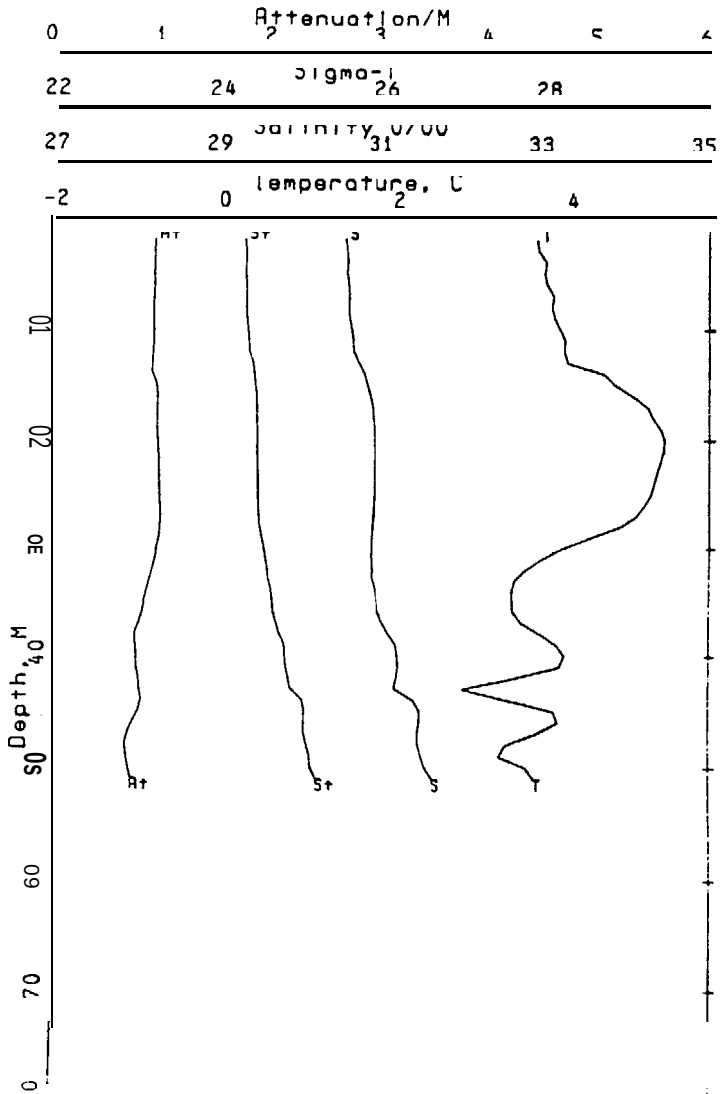
PRESS db	TEMP *C	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.6	4.005	30.996	24.602	7.06	8.57	1,02	0.11	0.01	1 . 9 4			0.79	
19.3	4.010	30.997	24.602	7.08	8.40	0.89	0.11	0.01	1.96			0.80	
40.4	4.407	31.098	24.644	7.01	8.38	0.93	0.12	0.00	2.05			0.84	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A05	16	05 OCT 86	1027	7129.80N	153 18.1OW	0062 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.0	3.564	30.598	24.326	7.28	9.31	1.10	0.16	0.01	1.62		185	0.88	.7
													.6
4.5	3.603	30.598	24.322	6.64	9.14	1.05	0.20	0.02	1.71	1.0460	154	0.89	.5
													.4
8.5	3.539	30.605	24,333	7.26	8.83	1.02	0.20	0.02	1.69		144	0.90	.6
													.6
19.1	3.924	30.712	24.384	7.13	9.64	1.14	0.20	0.03	1.93	1.0410	118	0.88	.5
													.3
28.5	4.337	31.101	24,654	7.10	8.77	1.18	0.16	0.03	2.01	1.1185	168	0.96	.1
													.3
50.5	3.507'	31.688	25.198	7.15	5.64	0.93	0.30	0.01	1.79	1.0745	806	0.66	1.1
													1.2



Ref. no. 5 Sta. a04 71.41 N
Time = 86278°9 6 Beaufort 53.43 W



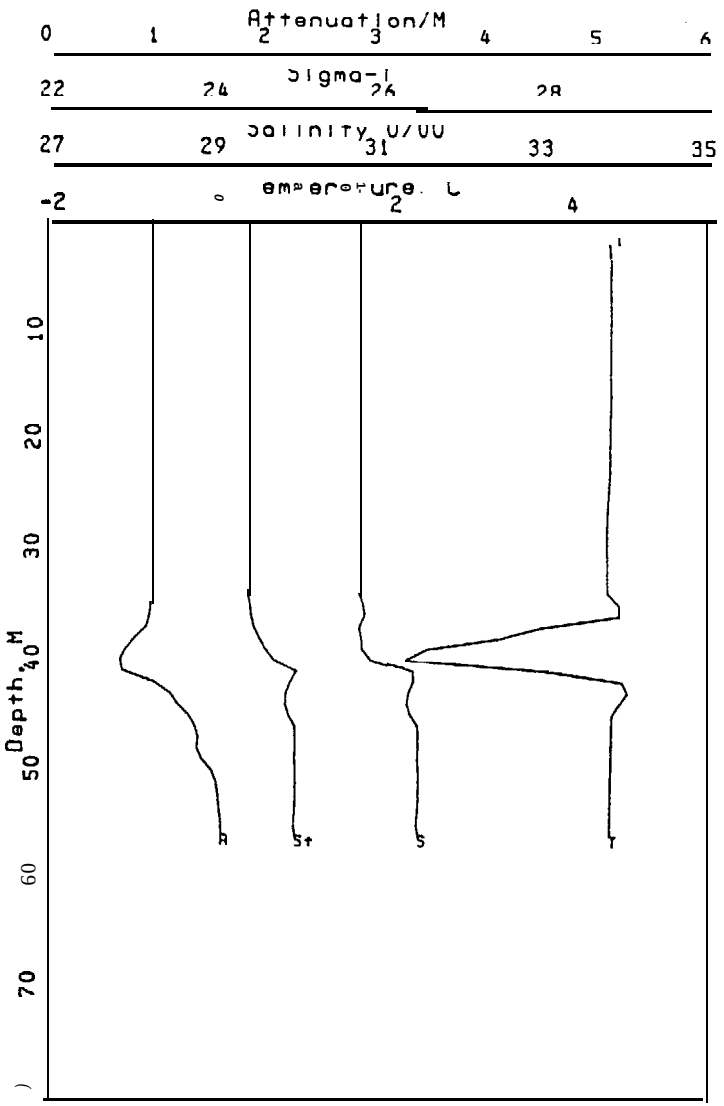
Ref. no. 16 Sta. a05 71.50 N
Time = 862781027 Beaufort 153.30 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A06	17	05 OCT 86	1130	71 35.50N	153 10.1OW	0057 M

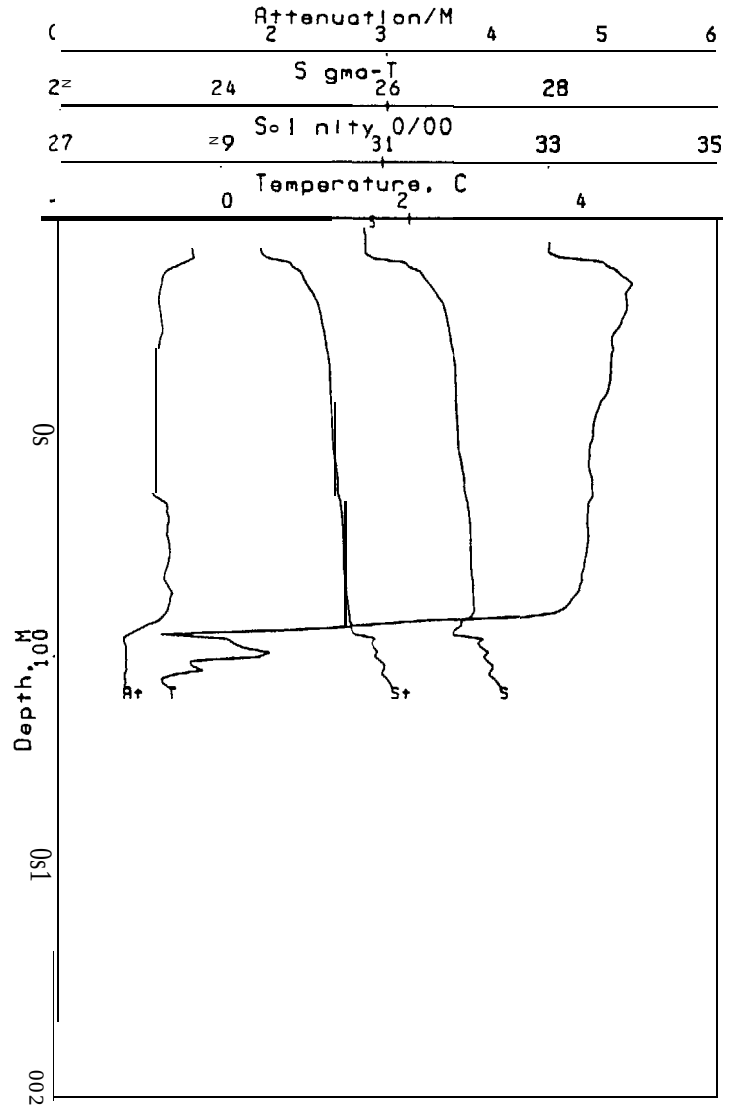
PRESS db	TEMP ‘c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1“’	LT.AT m^{-1}	CHLR-A µg l^{-1}
50.2	4.387	31.568	25.019	6.70	11.87	1.26	0.70	0.04	2.91			1.59	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A07	18	05 OCT 86	1306	7 144.80N	152 46.80W	0108 M

PRESS db	TEMP “c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm 1-’	$N0_2$ µm 1^{-1}	NH_3 µm 1^{-1}	SPM mg 1-’	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.9	3.451	30.763	24.467	7.18	11.49	1.27	0.23	0.01	1.97		145	1.21	2.2 1.3
4.4	3.526	30.772	24.468	7.17	11.83	1.42	0.23	0.()1	2.26	1.6130	78	1.21	2.0 2.0
9.3	3.486*	30.772”	24.471	7.18	11.90	1.56	0.32	0.01	2.20		198	1.22	2.0 2.1
18.5	4.481	31.717	25.128	6.83	13.52	1.56	0.49	0.04	2.86		298	0.90	1.2 1.5
28.3	4.313	31.829	25.234	6.84	13.58	1.49	0.57	0.04	3.09	1.0565	205	0,90	1.1 1.5
49.4	4.076	31.926	25.335	6.94	12.52	1.46	0.49	0.04	2.88		243	0.89	1.6 1.4
80.2	3.961	32.101	25.484							1.6025	175	0.96	
102.2	-0.540*	32.205	25.873	7.48	18.37	1.90	6.91	0.04	0.82	1.1403	131	0.61	



Ref. no. 7 Sta. no6 71.59 N
Time = 862781 3 Beaufort 53.17 W



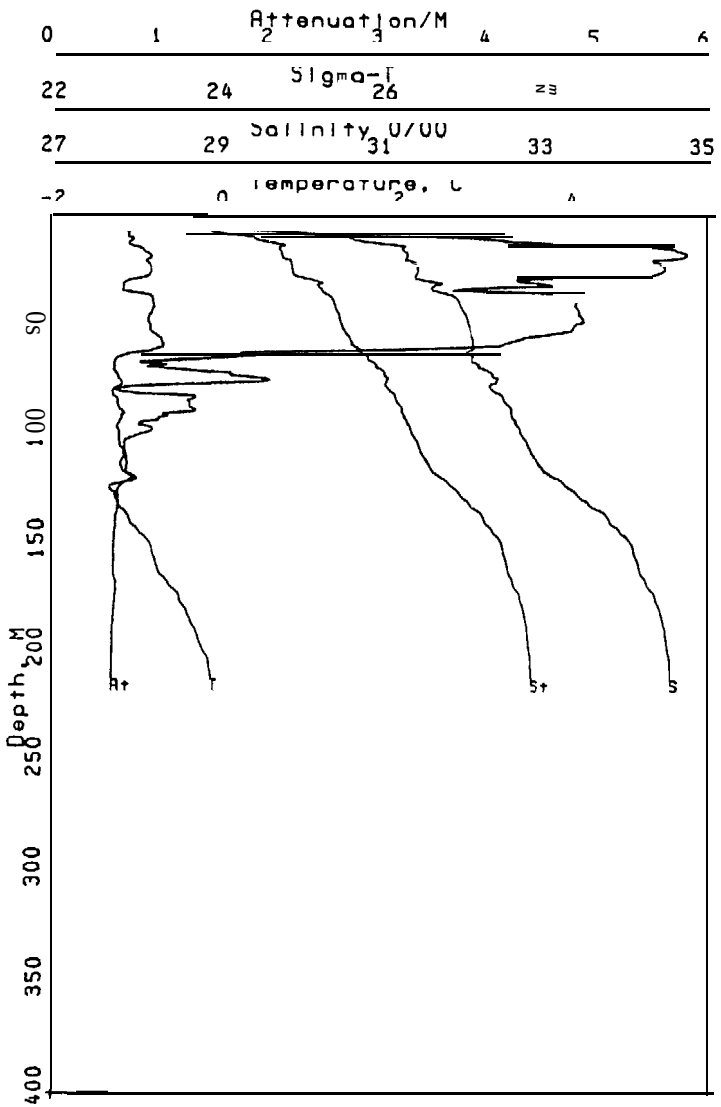
Ref. no. 18 Sta. a07 71.75 N
Time = 86278 307 Beaufort 152.78 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A08	19	05 OCT 86	1447	71 46.50N	152 53.00W	0221 M

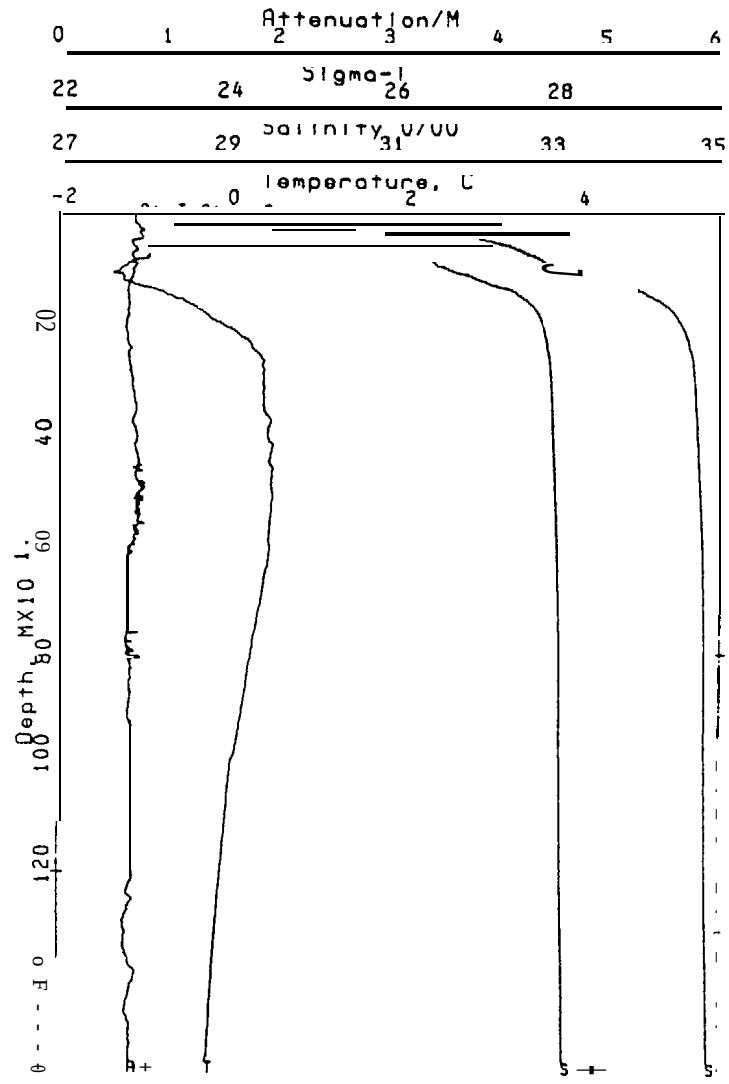
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml	SIO_4 l^{-1} µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm 1-'	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-'	LT.AT m"	CHLR-A µg l^{-1}
4.0	-0.449	29.488	23.673	7.98	10.74	1.32	0.32	0.05	2.32			0.86	
19.0	5.243*	31.355*	24.760	6.82	4.32	0.99	0.12	0.00	0.53			3.83	
49.1	3.663	32.161	25.561	6.95	10.31	1.22	0.89	0.05	2.36			0.98	
124.6	-1.374	33.359	26.835	6.56	32.51	2,02	14.18	0.06	0.40			0.59	
149.2	-0.907	34.100	27.421	6.22	27.22	1.88	14.93	0.04	0.00			0.56	
204.6	-0.228	34.599	27.795	6.31	13.61	1.41	13.50	0.00	0.02			0.55	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A09a	20	05 OCT 86	1750	71 52.50N	152 33.20W	1609 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm 1-'	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-'	LT.AT m^{-1}	CHLR-A µg l^{-1}
701.5	0.252	34.888	28.002	6.84	7.75	0.67	12.60	0.00	0.02			0.56	
1000.7	-0.063	34.903	28.031	6.86	7.87	0.67	12.81	0.00	0.02			0.62	
1545.2	-0.337	34.926	28,064	6.81	10.54	0.79	13.56	0.01	0.07	0.9395		0.65	



Ref. no. 19 Sta. a08 71.78 N
Time = 86278 450 Beaufort 152.89 W



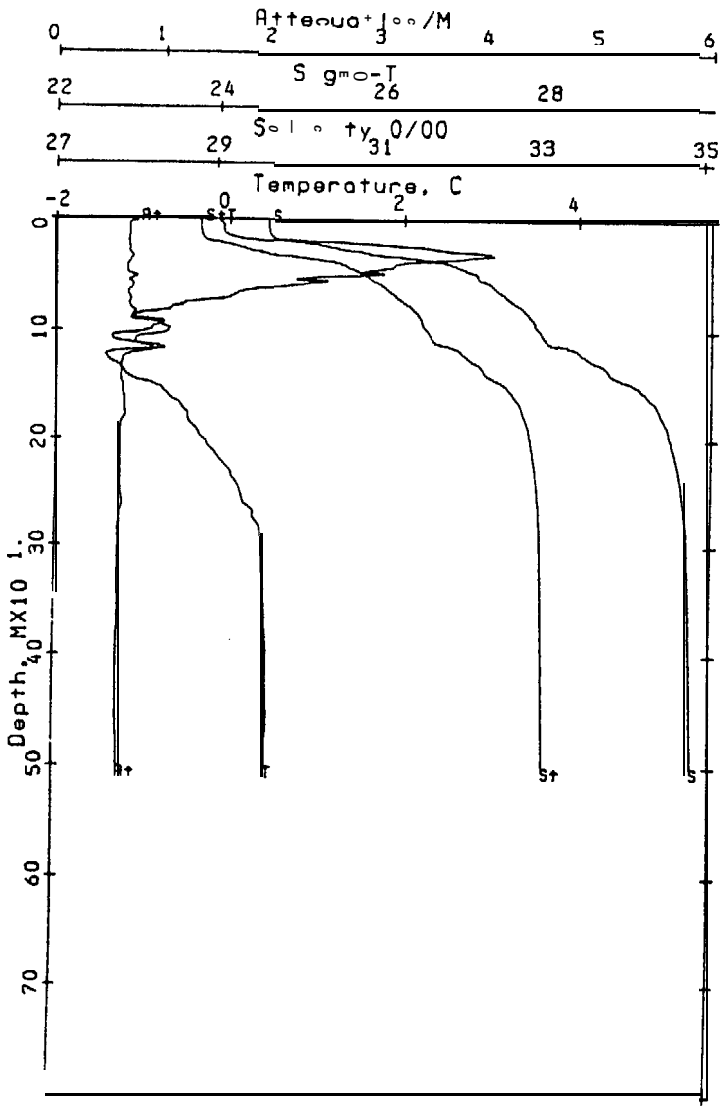
Ref. no. 20 Sta. a09 71.88 N
Time = 862781750 Beaufort 52.55 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A09b	21	05 OCT 86	2019	71 52.4(IN	152 26.80W	1576 M

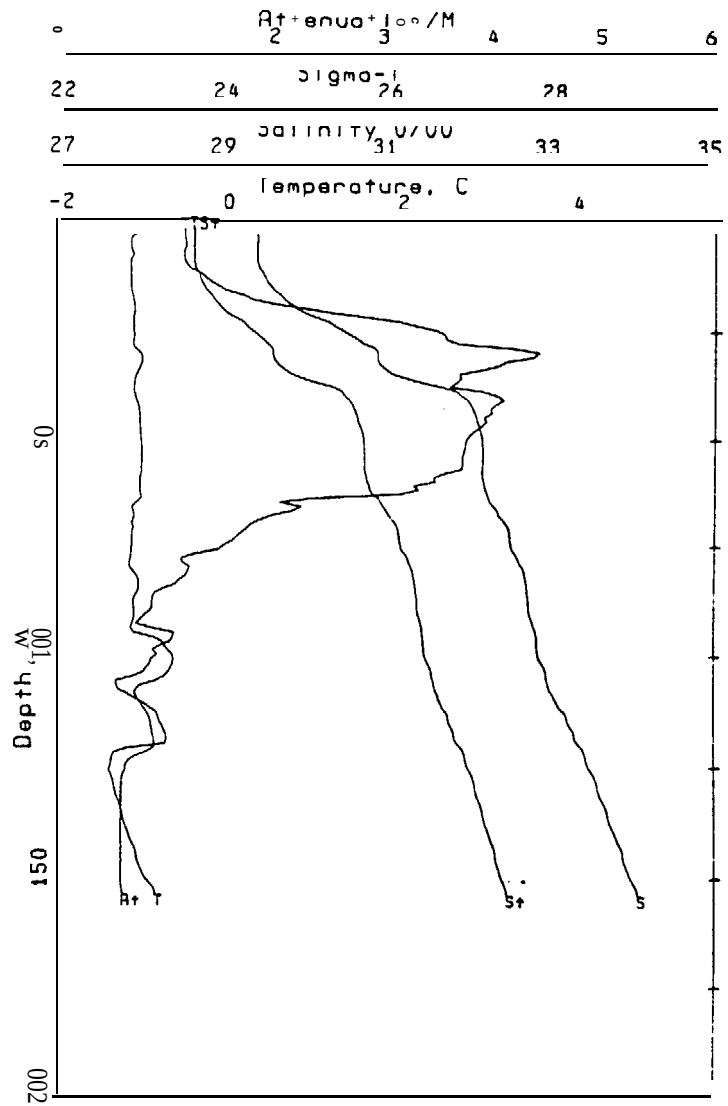
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml 1"'	SIO_4 µm 1 "'	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg 1-'	PC µg l^{-1}	LT.AT' m^{-1}	CHLR-A µg 1-'
199.4	-0.287	34.589	27.789	6.26	12.95	0.76	12.93	0.02	-0.0			0.56	
299.8	0.361	34,800	27.925	6.71	9.02	0.70	12,47	0.01	-0.0	0.5970		0,58	
500.1	0.431	34.870	27.977	6.73	7.87	0.72	12.69	0.01	0.00			0.59	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A(Nc	22	05 OCT 86	2145	71 52.80N	152 25. 10W	1608 M

PRESS db	TEMP 'c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm 1^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg S^{1}	PC µg 1^{-1}	LT.AT m^{-1}	CHLR-A µg l-'
3.8	-0.533	29.434	23.633	8.24	2.79	0.55	0.14	0.00	0.22	0.5880	159	0.64	
8.7	-0,480	29.382	23.588								233	0.65	
18.5	0.398*	29.812	23.904	7.82	2.79	0.60	0.12	0.00	0.48		256	0.68	
2S.9	3,656*	30.885	24.546								503	0.78	1.0
49.2	2.735	32.217	25.686	7.02	7.87	0.85	1.29	0.05	2.26		172	0.75	1.8 1.6
109.4	-1.296	33.058	26.5S8	6.81	26.92	1.63	11.97	0.09	1.67	1.3183	106	0.71	
149.5	-1.004	34.055	27.387	6.42	26.54	1.40	14.56	0.03	0.08			0.59	



Ref. no. 21 Sta. a09 71.87 N
Time = 86z782019 Beaufort 152.45 W



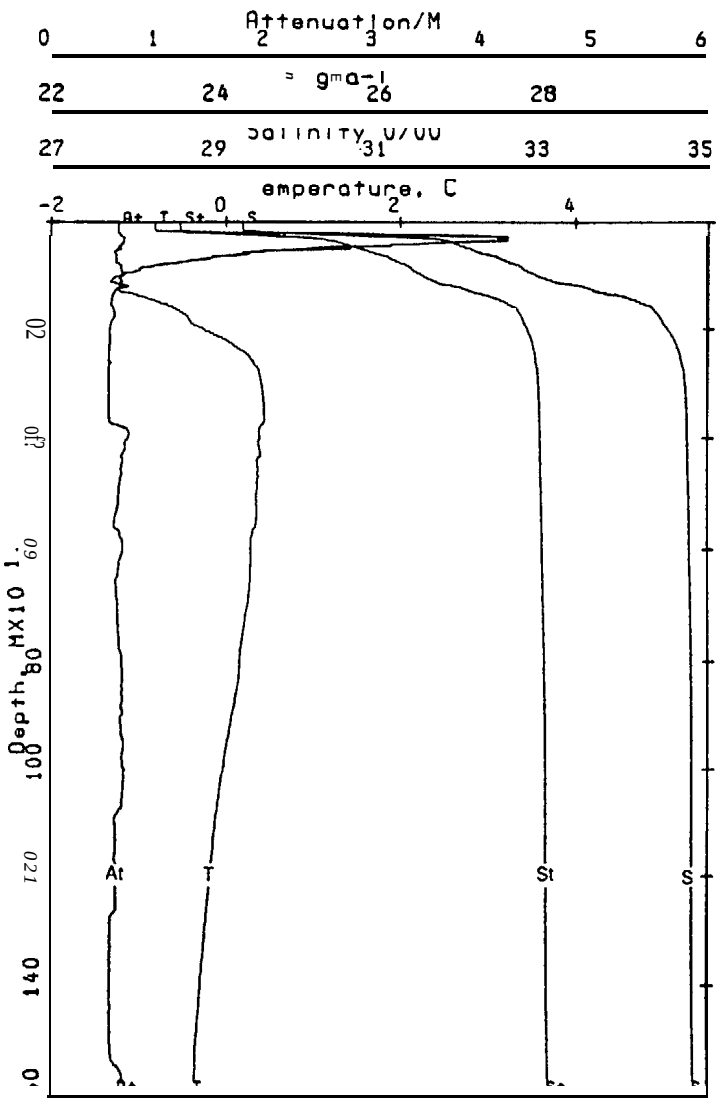
Ref no. 22 Sta. a09 71.88 N
Time = 86z782 50 Beaufort 52.42 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
AIOa	24	05 OCT 86	2350	71 58.00N	152 36.00W	2012 M

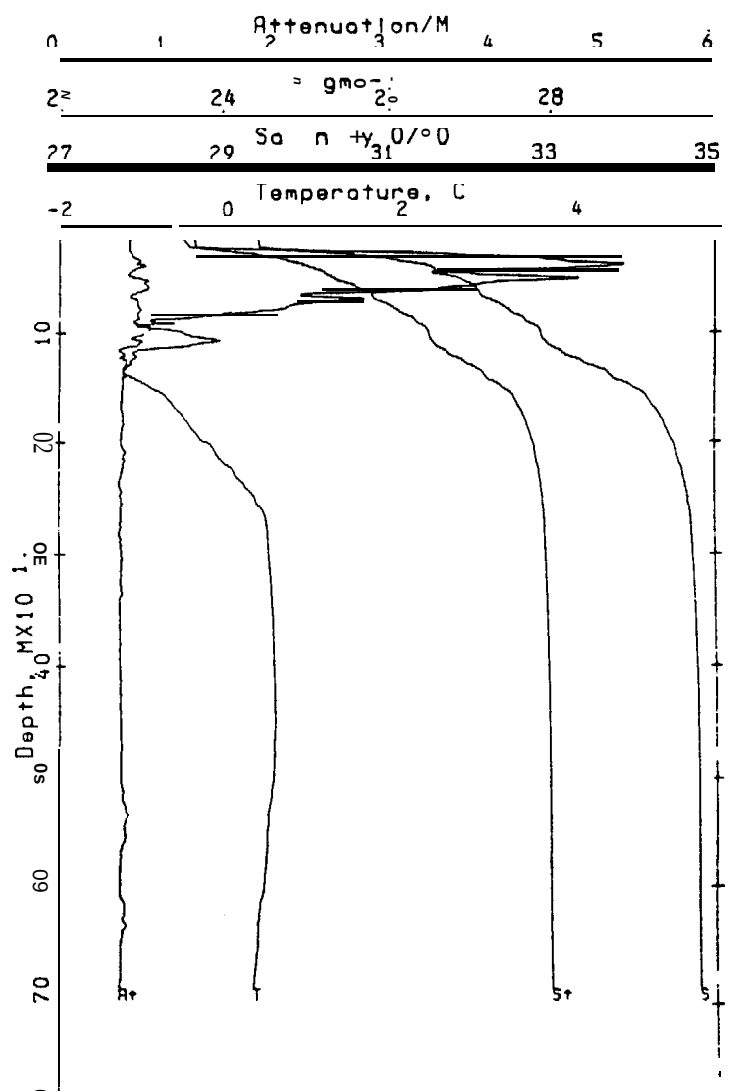
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1^{-1}	LT.AT m^{-1}	CHLR-A µg 1^{-1}
998.7	-0.024	34.900	28.027	6.88	6.54	0.67	13.(-)1	0.00	0.()()			0.67	
1249.2	-0.195	34.911	28.045	6.86	5.92	0.64	13.22	0.00	0.00			0.56	
1572.3	-0.335	34.925	28.063	6.82	6.95	0.64	13.81	0.02	0.20			0.67	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A10b	25	06 OCT 86	0208	71 59.60N	152 43.60W	2180 M

PRESS db	TEMP °c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1^{-1}
324.0	0.398	34.816	27.936	6.71	5.93	0.59	12.74	0.01	0.00			().54	
501 ,()	0.431	34.873	27.979	6.77	5.58	0.63	12.82	0.00	0.00			().54	
698.3	0.222	34.89 I	28,()()6	6.82	5.60	0.65	12.77	0.00	0.00			0.56	



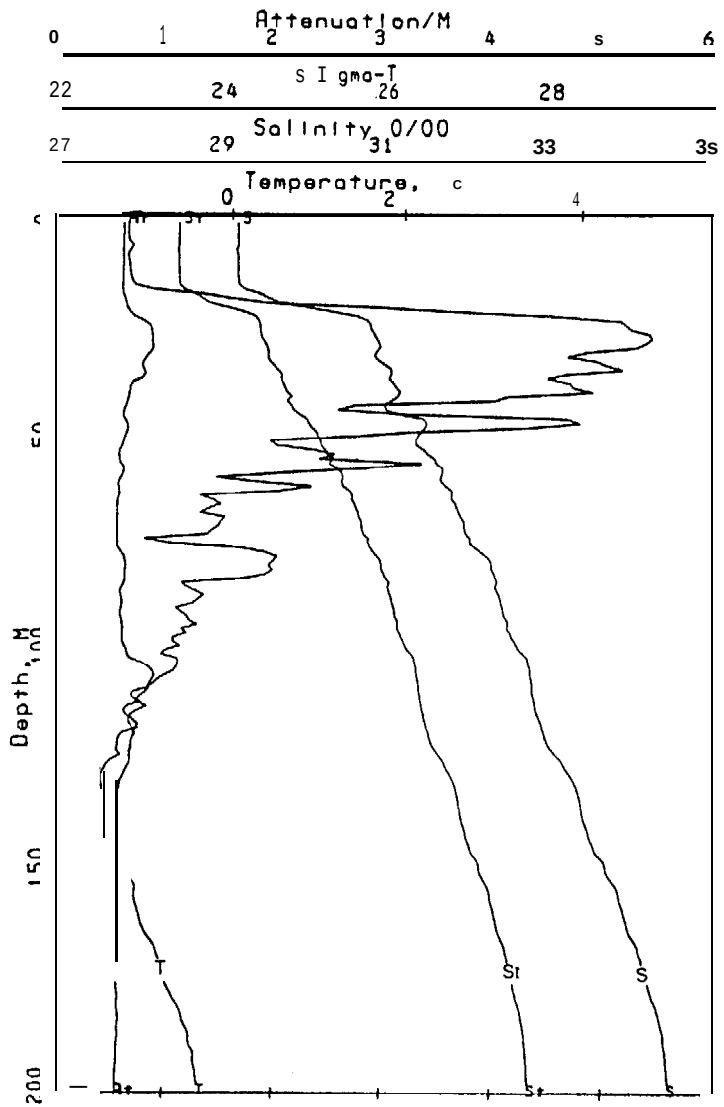
Ref. no. 24 Sta. a10 71.97 N
Time = 862782355 Beaufort 152.60 W



Ref. no. 25 Sta. a 9 71.99 N
Time = 862790209 Beaufort 152.73 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
A1OC	26	06 OCT 86	0325	7202.70N	152 39.70W	2286 M

PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.4	-1,260	29.228	23.482	8.30	2.50	0.61	0.00	0.00	-0.00			0.61	
19.2	-0,192*	29.564*	23.727	7.95	2.33	0.60	0.00	0.00	0,31			0.63	
48.7	2.695*	3 1.465*	25.089	7.66	4.37	0.79	0.26	0.05	0.92			0.64	
129.9	-1.460	33.395	26.867	6.63	23.56	1.76	13.95	0.06	0.10			0.59	
148.3	-1,246	33.780	27.173	6.43	22.66	1.56	14.75	0.04	0.00			0.57	
198.5	-0.335	34.573	27.778	6.25	10.58	0.74	13.13	0.03	0.00			0.57	



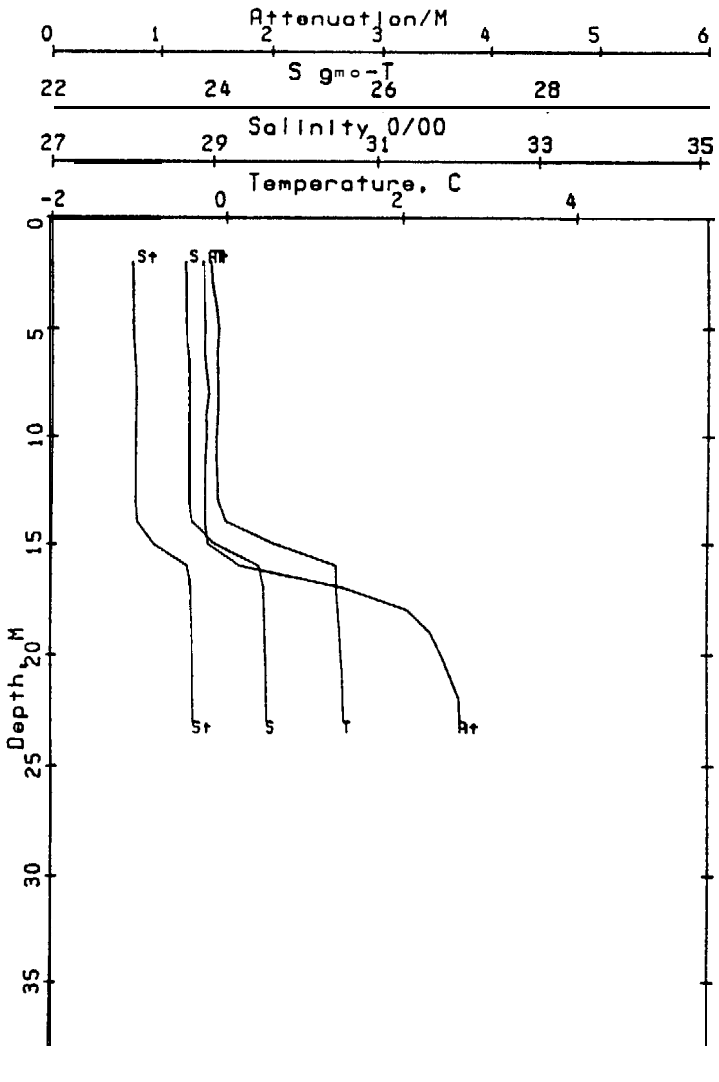
Ref. no. 26 Sta. 010 72.04 N
Time = 862790325 Beaufort 152.66 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B01	28	08 OCT 86	1838	7028.40N	147 20.30W	0027 M

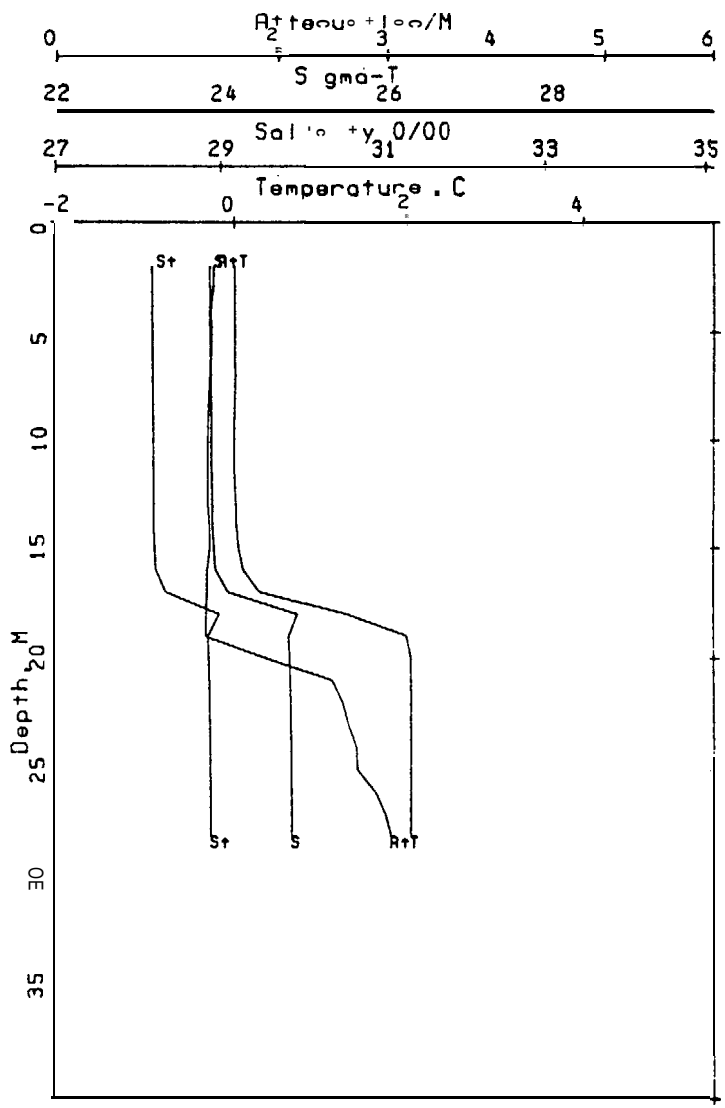
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.5	-0.185	28.597	22.947	8.15	3.33	0.81	0.01	0.03	0,36	1.7615	434	1.36	
7.6	-0.232	28.559	22.917							2.5493	448	1.36	
10.4	-0.145	28.670	23.004							1.9210		1.38	
22.2	1.323	29.661	23.737	7.67	4.25	0.82	0.00	0.04	0.93	5.9880	814	3.54	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTI 1
B02	27	08 OCT 86	1703	7032.20N	147 19.50W	0034 M

PRESS db	TEMP 'c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm 1-*	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4,7	0.015	28.902	23.186	8.09	4.46	0.73	0.00	0.04	().34			1.34	
					4.42	0.80	0.00	0.04	0.36				
					4.37	0.81	0.00	0.04	0.36				
7.4	0.001	28.907	23.191	8.19								1.36	
10.4	0,009	28.913	23.194	8.09								1,36	
28.1	2.022	29.877	23.868	7.44	4.33	0.82	0.00	0.05	1.08			3.13	
				7.57	4.39	0.85	0.00	0.05	1.15				
				7.52	4.23	0.84	0.00	0.05	1.15				



Ref. no. 28 Sta. b0 70.47 N
Time = 8628 838 Beaufort 47.34 W



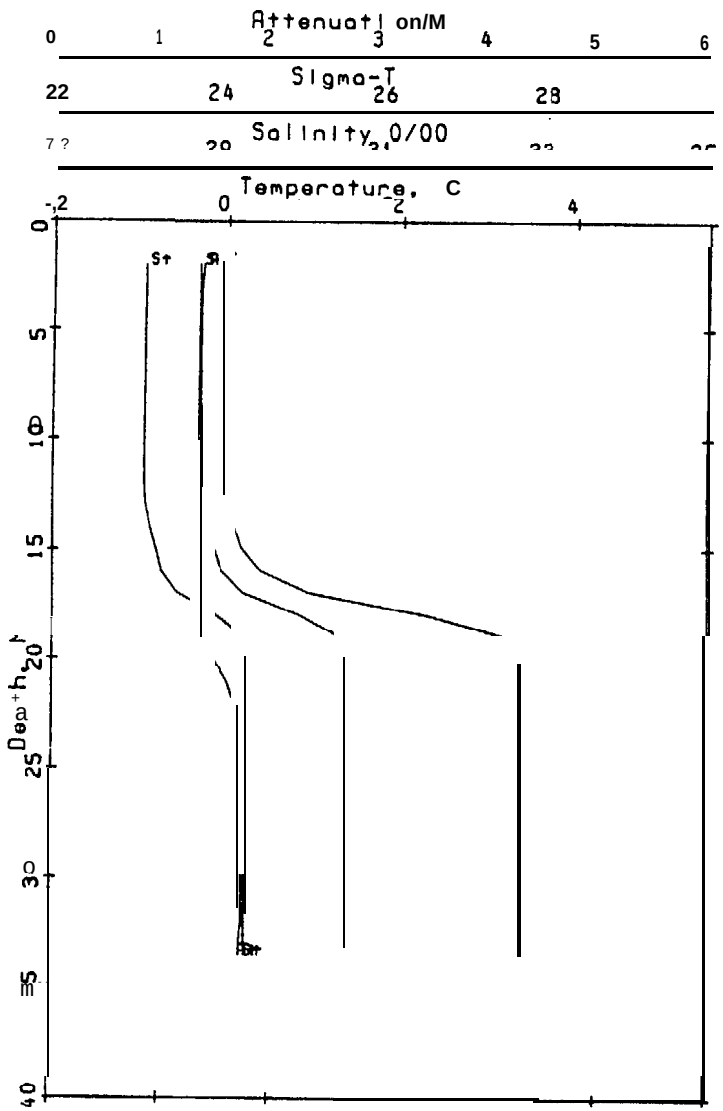
Ref. no. 27 Sta. b02 70.54 N
Time = 862811703 Beaufort 47.32 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B03	29	08 OCT 86	2012	7037.00N	147 13.80W	0039 M

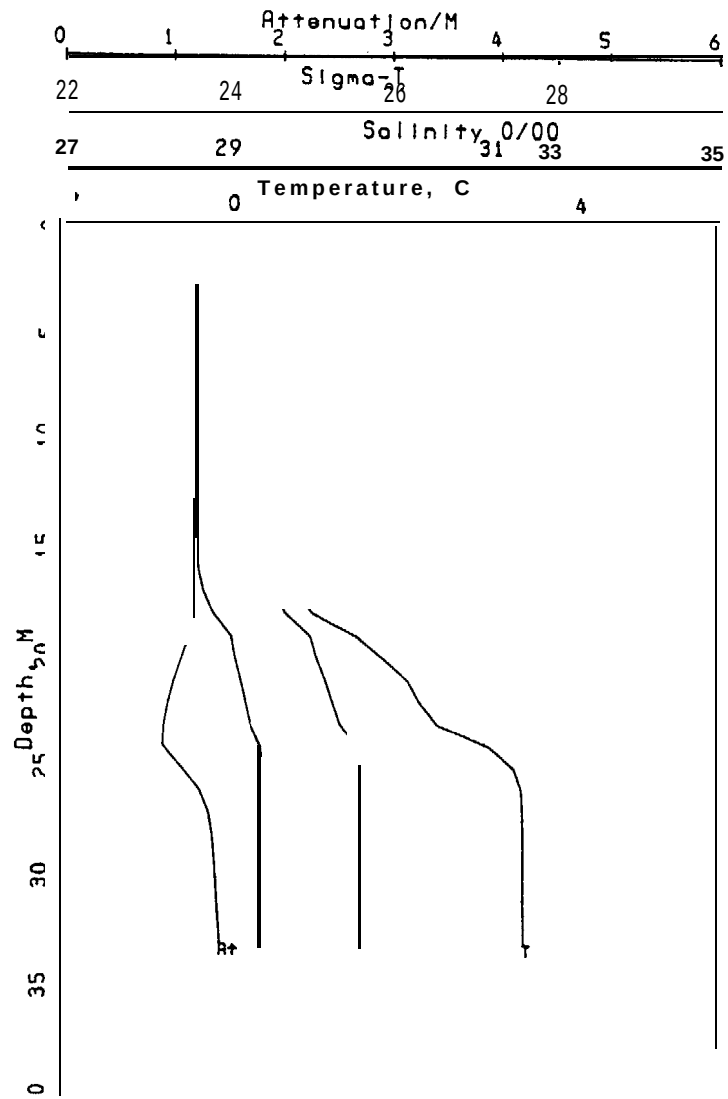
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm 1^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm 1^{-1}	NH_3 µm 1^{-1}	SPM mg 1^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1"'
4,3	-0.036	28.813	23.115	8.12	3.61	0.79	0.01	0.04	1.10	3.1313	188	1.36	
9.9	-0.037	28.813	23.116							2.7497	265	1.38	
18.6	2.608*	30.28 1*	24.150							2,0485	265	1.36	
32.8	3,396	30.654	24.384	7.18	3.90	0.80	0.01	0.03	0.34	1.8315		1.77	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B04	30	08 OCT 86	2111	7039.80N	14711 .50W	0037 M

PRESS db	TEMP "C	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm 1'	PO_4 µm 1"*	NO_3 µm l^{-1}	NO_2 µm l"'	NH_3 µm 1^{-1}	SPM mg l-'	PC µg l^{-1}	LT.AT m" ^{1}	CHLR-A µg l"'
4.8	0.421	29.494	23.647	7.97	4.85	0.77	0.00	0.03	0.33			1.22	
19.7	1.617*	30. 106*	24.077	7.65	4.03	0.77	0.00	0.03	0.65			1.06	
32.9	3.345	30.723	24.444	7.27	3.62	0.67	0.00	0.04	1.02.			1,52	



Ref. no. 29 Sta. b03 70.62 N
Time = 862812012 Beaufort 147.23 w



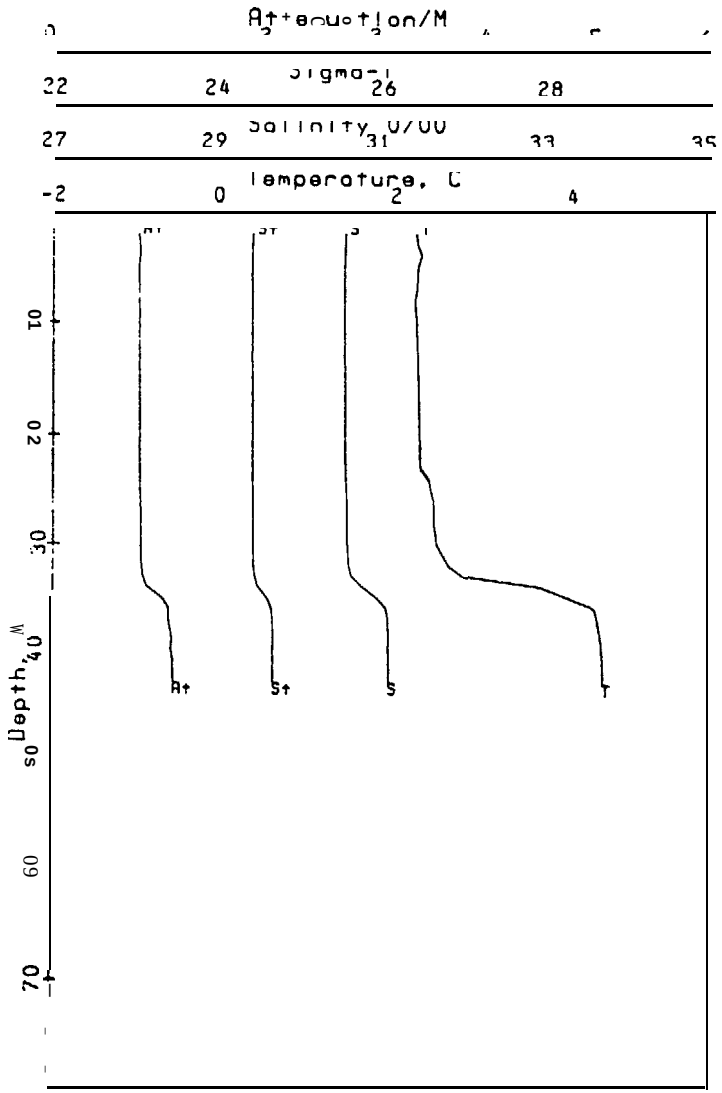
Ref. no. 30 Sta. b04 70.66 N
Time = 862812111 Beaufort 147.19 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B05	31	08 OCT 86	2231	7046.20N	14701 .1OW	0048 M

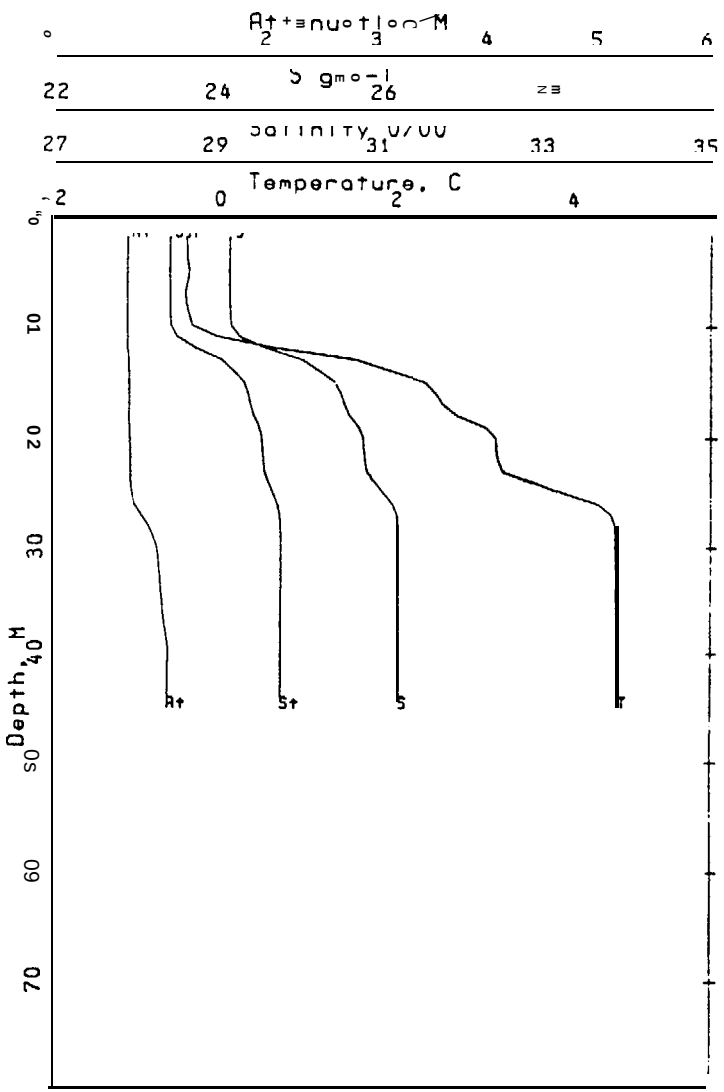
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.2	2.197	30.637	24.464	7.52	3.84	0.76	0.00	0.04	0.78		195	0.81	2.7
3.8	2.233	30.625	24.4S2	7.54	3.74	0.77	0.0(3	(-),04	0.95	0.9715	180	0.80	.7
8.9	2.182	30.667	24.490	7.49	3.64	0,69	0.00	0.03	0.95		204	0.84	1.2
18.8	2.221	30.637	24.462	7.51	3.75	0.73	0.00	0.03	1.09	1.1175	185	0.82	.6 .8
28.8	2.317	30.656	24.471	7.42	4.06	0.77	0.00	0.03	1.22	1.1525	403	0.84	1.4 .5
42.9	4,306	31.173	24.713	6.98	5.92	0.82	0.00	0.05	1.85	I.8675	115	1.17	1.7 1.0 .4

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B06	32	08 OCT 86	2341	7050.50N"	146 56.70W	0052 M

PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 pm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.8	-0.486	29.219	23.457	8.31	2.05	0.72	0.00	0.02	0.30		456	0.72	.6
3.7	-().27()	29.250	23.476	8.21	2.25	0.68	0.00	0.02	().4()	0.9270	181	(),7()	1.4 .8
9.0	-0.475*	29.214*	23.453	8.24	2.14	0.67	0.00	0.02	0.46		363	0.72	.6 .7
18.6	3.015*	30.818*	24.547	7.31	4.30	0.70	0.00	0.04	1.51	0.7870	135	0.74	.6 1.1
29.4	4.417	31.279	24.787	6.93	6.56	0.84	0.11	0.05	2.12	1.2170	202	().98	.7 1.2
44.2	4.461	3] .290	24.791	6.89	6.45	0.84	0.11	0,05	1.91	1.7475	170	1.02	1.2 .4 .3



Ref. no. 31 Sta. b05 70.77 N
Time = 862812231 Beaufort 147.02 W



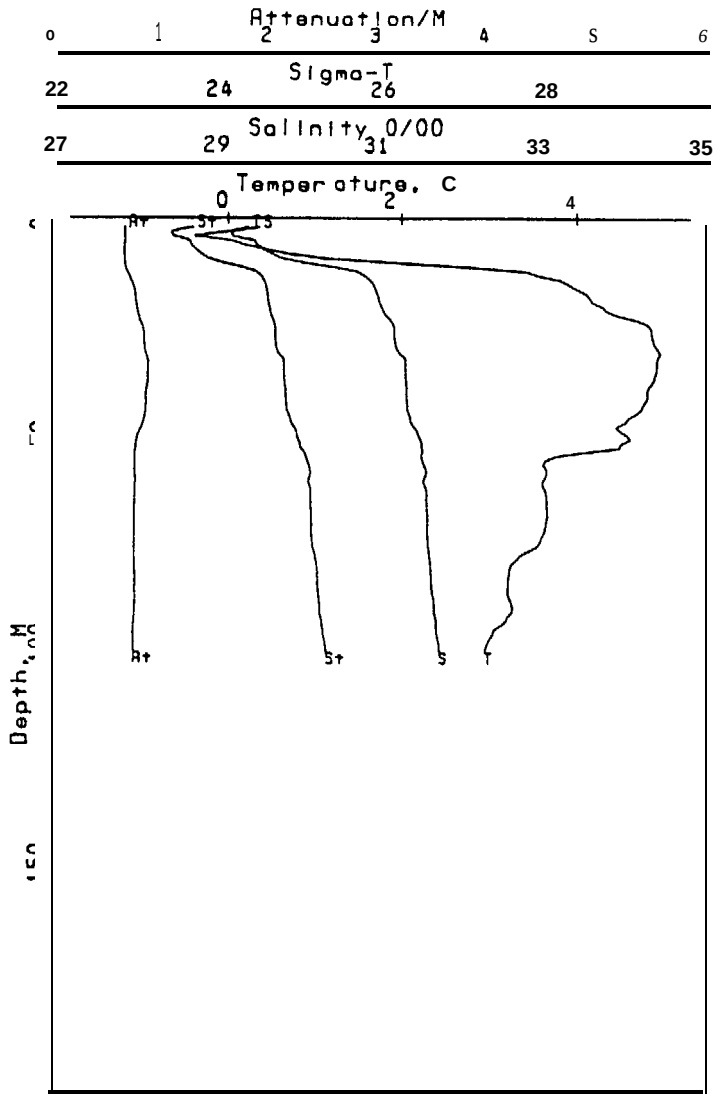
Ref no. 32 Sta. b06 70.84 N
Time = 862341 Beaufort 46.95 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B07	33	09 OCT 86	0100	7055.00N	14650. 10W	0107 M

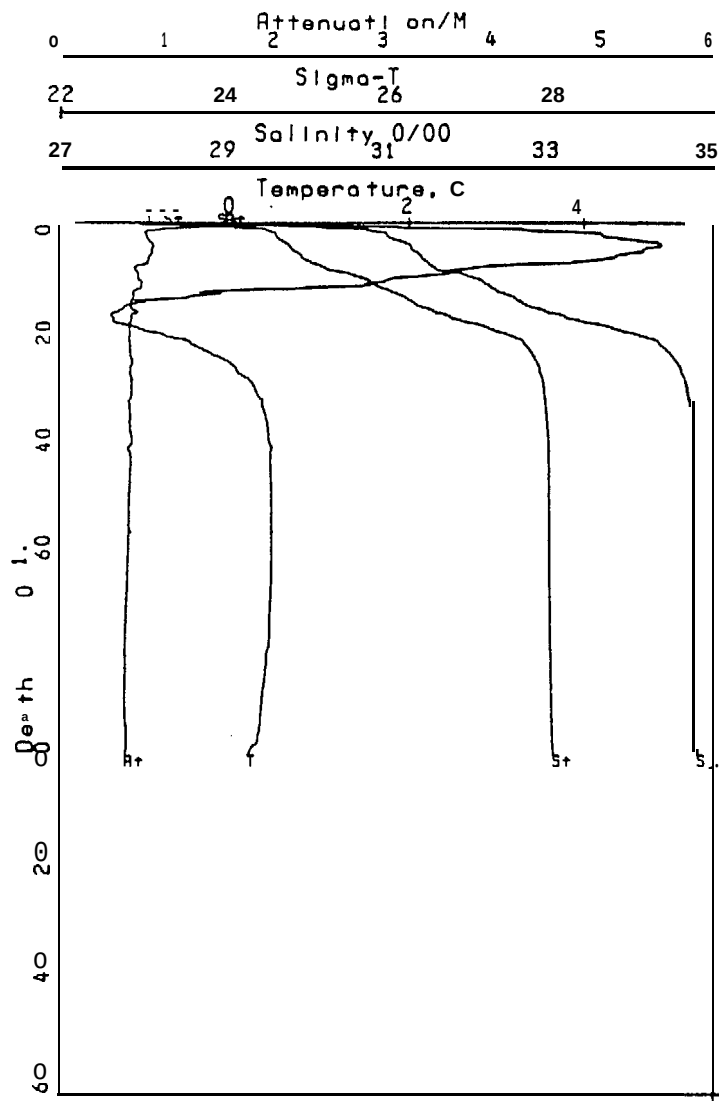
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.2	0.028	29.371	23.563	8.06	2.05	0.66	0.00	0.00	0.29		334	0.62	.1
4.2	0.036*	29.184*	23.412	8.10	1.49	0.70	0.00	0.00	0.35	0.6285	241	0.65	.1 .3
9.2	0.920”	29.788*	23.860	7.83	2.09	0.72	0.00	0.03	0.49		305	0.66	.4 .2
18.8	4.201	31.015	24.598	7.00	7.15	0.90	0.00	0.05	1.72		179	0.78	.1
28.6	4.959	31.357	24.793	6.75	8.57	0.96	0.03	0.06	2.08	0.9715	197	0.87	,4
49.6	4.728	31.389	24.843	6.78	8,23	0.96	0.03	0.06	2.04	1.2250	234	0.86	.3 .6
99.7	2.972	31.799	25.333	7.10	6.95	0.93	0.43	0.09	1.65	1.1413	194	0.74	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B08	34	09 OCT 86	0228	7058.50N	146 44.50W	0983 M

PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.3	-0.495*	28.848*	23.158	8.06	2.52	0.69	0.00	0.03	0.44			0.65	
48.6	4.812	31.385	24.830	6.83	7.99	0.92	0.06	0.05	2.02			0.79	
168.8	-1.399	33.285	26.776	6.69	30.84	1.90	12.93	0.09	0.38			0.58	
299.3	0.228	34.750	27.892	6.49	10.84	1.01	12.81	0.05	0.01			0.58	
498.7	0.407	34.843	27.956	6.68	8.63	0.96	12.64	0.05	-0.00			().59	
748.5	0.402	34.870	27.979	6.67	7.86	0.88	12.70	0.03	-0.00			().58	
978.7	0.133	35.010”	28.107	6.84	7.83	0.90	12.46	0.03	0.06			0.62	



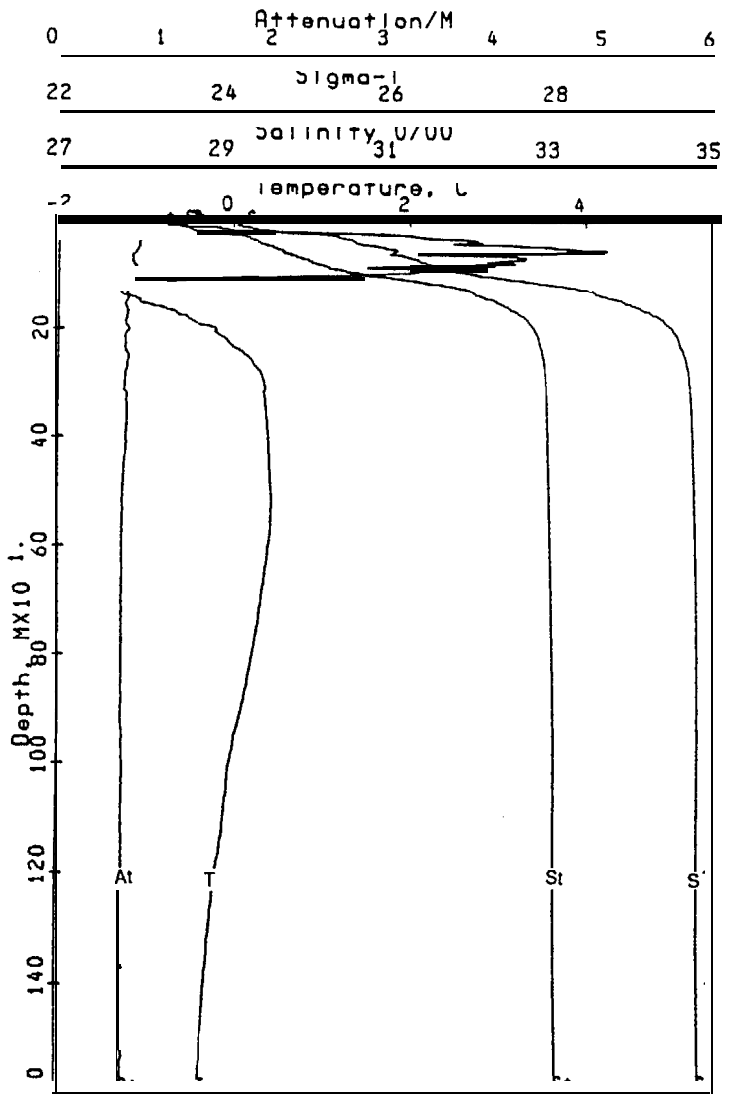
Ref. no. 33 Sta. b07 70.92 N
Time = 862820100 Beaufort 146.84 W



Ref. no. 34 Sto. b08 70.98 N
Time = 862820229 Beaufort 146.74 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B09	35	09 OCT 86	0521	7103.80N	146 39.40W	1693 M

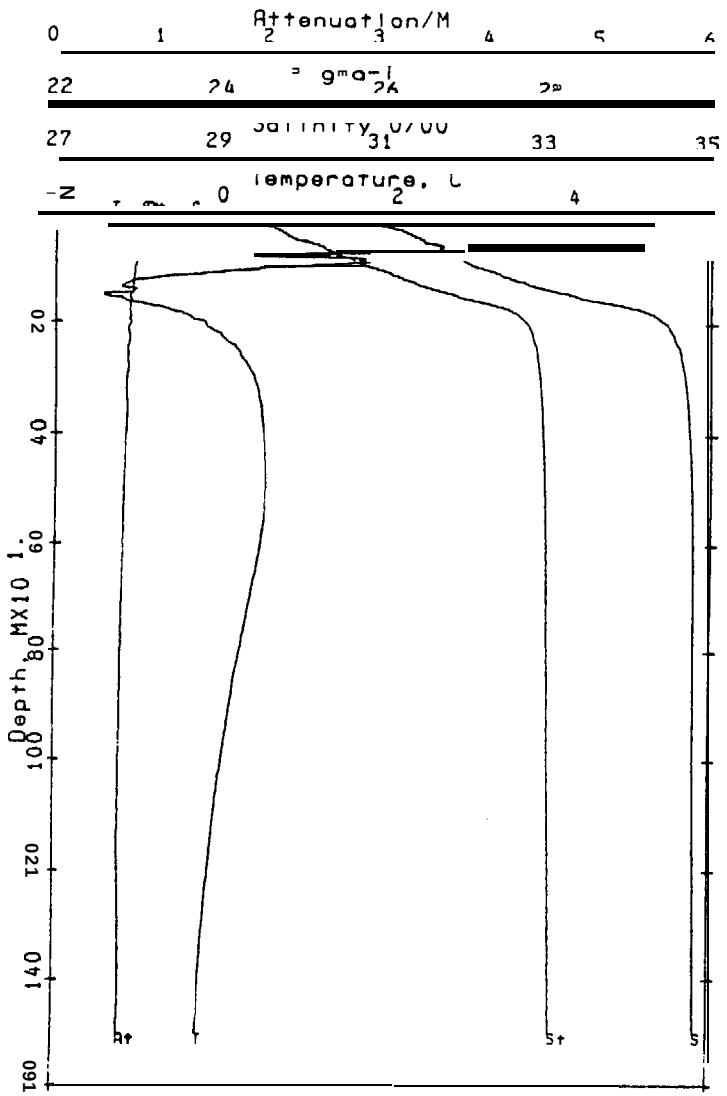
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.4	-0.824	29.211	23.460	8.23	1.60	0.77	0.25	0.03	0.35		311	0.78	.5
4.0	-0.846	29.204	23.455	8.23	1.65	0.81	0.15	0.03	0.29	0.8625	287	0.77	.8 .8
10.1	-0.730*	29.216	23.462	8.26	1.70	0.78	0.18	0.03	0.37		353	0.78	.6 1,0
19.9	0.189*	29.555	23.705	8.02	2,97	0.83	0.00	0.03	0.49		461	0.83	.9 .6
29.0	1.281	29.901	23.932	7.61	2.81	0.82	0.09	0.03	0.86		200	0.78	.5 .4
49.1	3.072*	30.833	24.554	7.32	3.60	0.78	0.31	0.03	1.02		66	0.66	.6 .9 1.3
134.1	-1.299	33.572	27.006	6.56	29.65	1.73	13.51	0.08	0.02	0.6960	249	0.56	
149.1	-1.137	33.827	27.207	6.39	28.15	1.76	13.95	0.08	0.00			0.56	
199.6	-0.364	34.518	27.736	6.24	14.48	1.38	13.41	0.05	0.00			0.56	
309.9	0.371	34.795	27.920	6.64	14.43	1.41	13.38	0.05	0.00			0.54	
501.8	0.437	34.858	27.967	6.68	6.74	0.91	12.78	0.03	0.06	0.9610		0.56	
1570.2	-0.363	34.925	28.065	6.79	7.10	0.99	12.59	0.04	0.00	0.8755		0.61	



Ref. no. 35 Sta. b09 71.06 N
Time = 862820521 Beaufort 146.66 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
B1O	36	09 OCT 86	0859	7 108.90N	146 36.40W	2037 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.5	-1.543	28.569	22.951	8.79	3.22	0.73	0.09	0.00	0.21			0.60	
18.9	0.308'	29.450*	23.616	7.90	5.42	0.66	0.00	0.01	0.94			0,61	
48.8	4.801	31.551	24.963	6.92	6.46	0.76	0.22	0.08	2.00			0.63	
133.6	-1.213	32.950	26.498	7.00	31.66	1.69	11.65	0.17	1.10			0.59	
149.0	-1.377	33.529	26.974	6.66	35.00	1.54	13.42	0.08	0.23			0.58	
199.7	-0.312	34.513	27.728	6.31	17.65	0.95	13.44	0.08	0.02			0.58	
348.6	0.374	34.813	27.934	6.54	10.52	0.86	12.85	0.04	0.02			0.57	
498.7	0.429	34.861	27.970	6.70	9.61	0.87	12.87	0.04	0.03			0.56	
698.8	0.268	34.884	27.998	6.88	9.05	0.79	12.66	0.03	0.00			0.56	
998.6	-0.037	34.899	28.027	6.96	9.06	0.79	12.77	0.02	0.00			0.58	
1249.2	-0.230	34.910	28.045	6.88	10.10	0.86	13.03	0.02	0.06			0.60	
1050.4	-0.334	35.179	28.268	6.82	11.26	0.90	13.46	0.02	0.03			0.62	



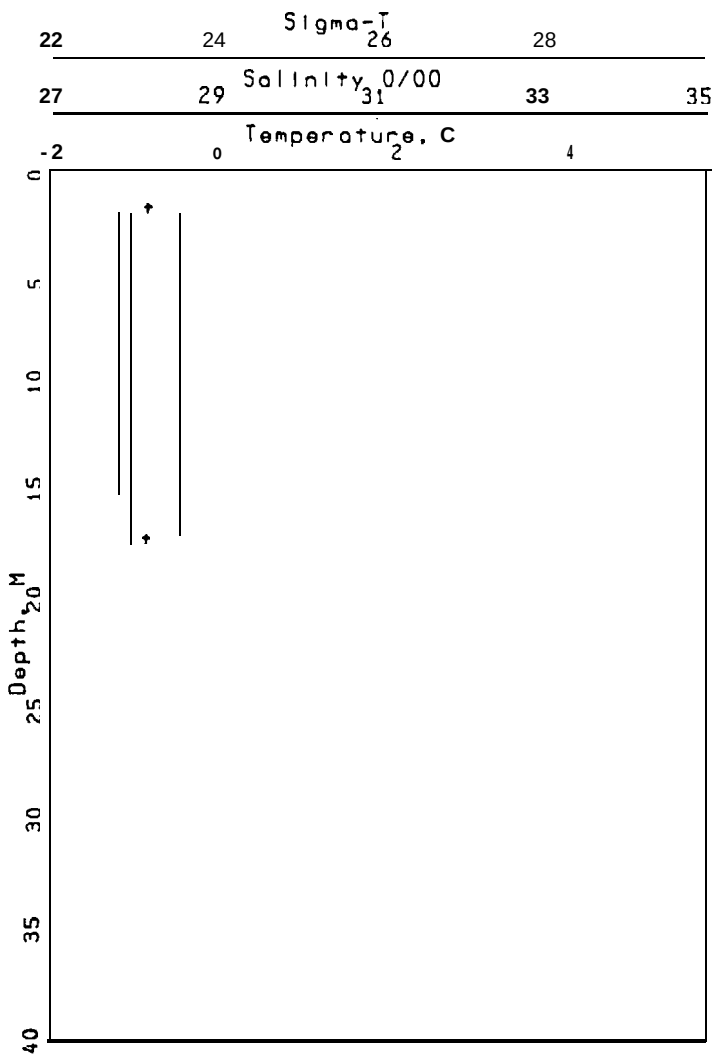
Ref. no. 36 Sta. b10 71.15 N
Time = 862820900 Beaufort 46.61 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C01	47	12 OCT 86	1737	70 10.3ON	14430. low	0024 M

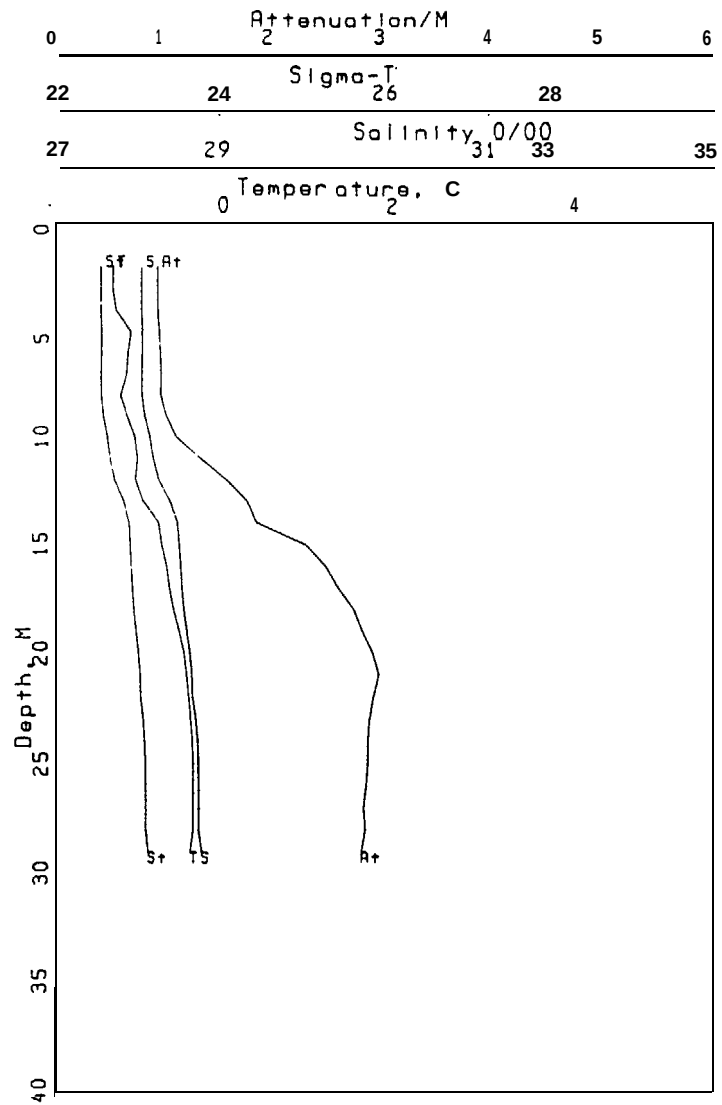
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1-'
4.4	-1.140	28.577	22.953	8.50	3.82	0.86	0.00	0.03	0.19	6.7260	216		
6.8	-1.267	28.561	22.942							5.8295	243		
10.3	-1.246	28.576	22.953							6.3717	145		
16.7	-1.076	28.646	23.007	8.56	3.80	0.86	0.00	0.03	0.15	5.4220	162		

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C02	46	12 OCT 86	1606	7014.50N	144 22.70W	0035 M

PRESS db	TEMP "c	SAL	SIGMA-T	0_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.6	-1,212	28.028	22.509	8.56	3.24	0.69	0.17	0.01	0.15	1.8665	43	0.92	
9.4	-1.080	28.180	22.630							2.5237	135	1.30	
19.4	-0.537	28.650	22.999	8.42	3.77	0.76	0.06	0.03	0.21	5.1150	185	2.67	
28.7	-0.418	28.780	23.101	8.42	3.86	0.86	0.06	0.03	0.21	4.9200	78	2.63	



Ref. no. 47 Sta. c01 70.17 N
Time = 862851737 Beau fart 144.50 w



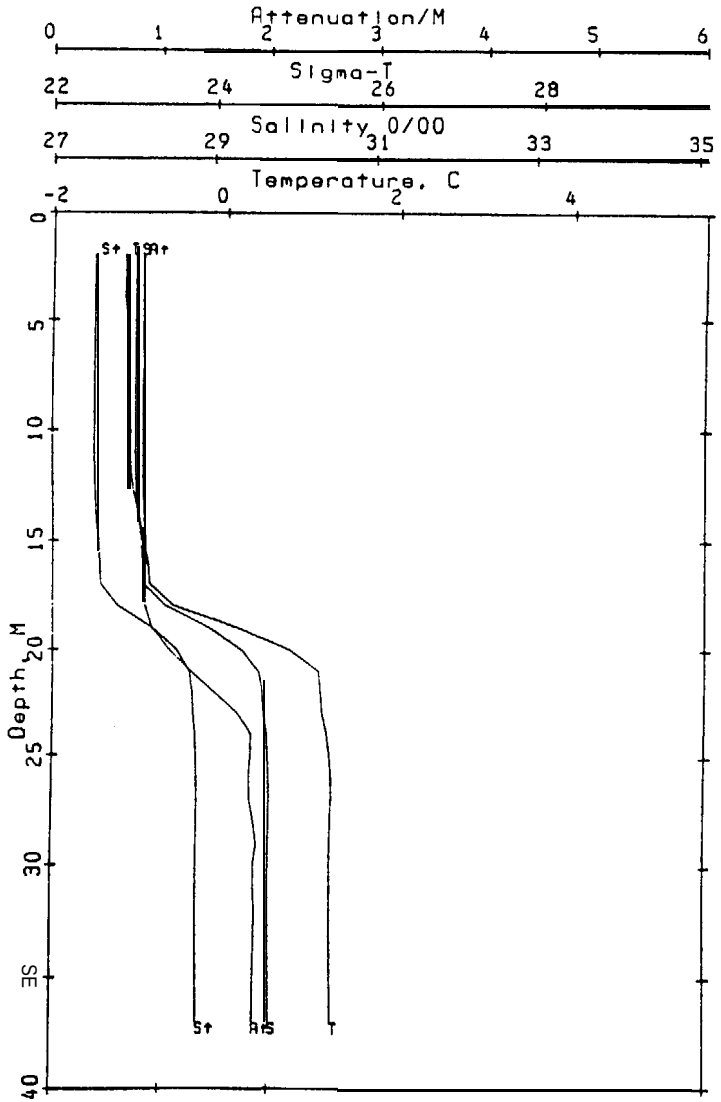
Ref. no. 46 Sta. C02 70.24 N
Time □862851606 Beaufort 144,38 w

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C03	45	12 OCT 86	1433	70 21.50N	144 17.00W	0045 M

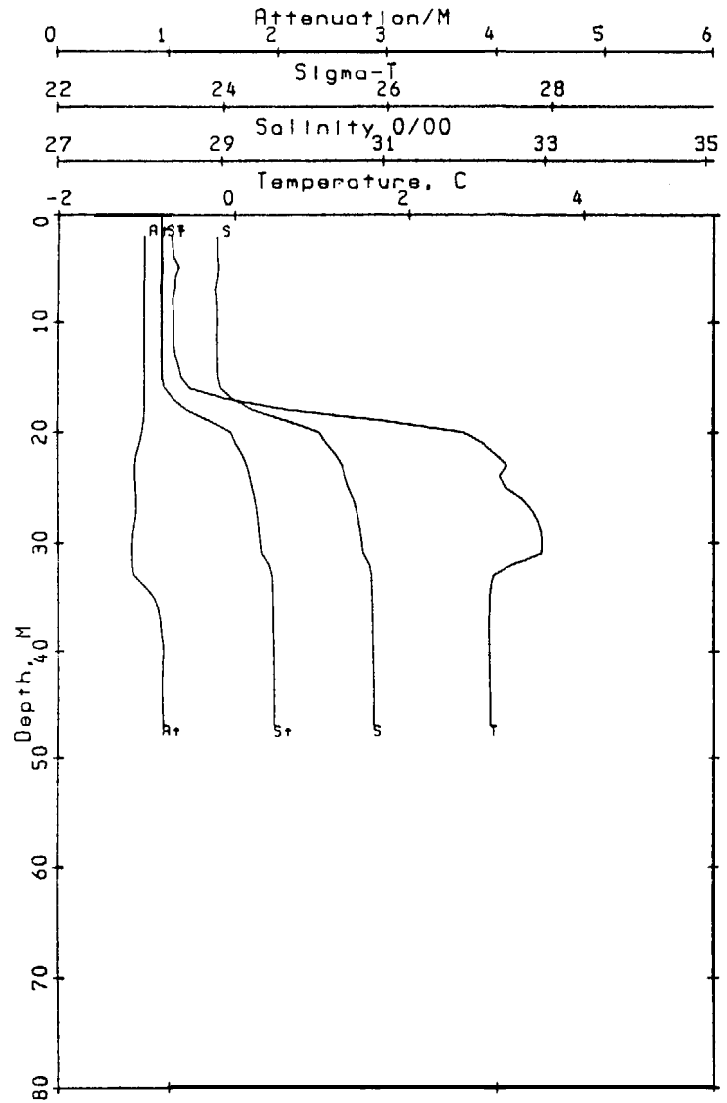
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
0.9	-1.188	28.032	22.512	8.70	2.50	0.64	0.00	0.01	0.09		92	0.83	.2
3.9	-1.192	28.031	22.512	8.56	2.48	0.66	0.00	0.01	0.11	0.9180	94	0.83	.0 .2
8.9	-1.090	28.000	22.485	8.55	2.45	0.62	0.00	0.02	0.12		44	0.84	.3 .2
19.1	0.41O*	29.076*	23.311	8.21	3.21	0.61	0.00	0.02	0.19	1.7240	5	1.14	.2 .3
29.0	1.202	29.704	23.778	7.99	3.63	0.68	0.00	0.03	0.26	3.1235	81	1.86	.3
36.9	0.665	30.239	24.235	8.02	3.83	0.73	0.00	0.03	0.27	3.4615	12	1.92	.2 .3

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C04	44	12 OCT 86	0950	7027.70N	144 11.(IOW	0050 M

PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.4	-0.737	28.926	23.227	8.44	2.20	0.61	0.00	0.02	0.16		222	0.76	.2
4.2	-0.699	28.928	23.228	8.37	2.18	0.62	0.00	0.01	0.16	0.7980	150	0.78	.2 .3
8.9	-0.692	28.946	23.242	8.42	2.27	0.66	0.00	0.01	0.15		173	0.79	.2 .3
18.9	2.840*	30.245*	24.104	8.02	2.14	0.61	0.00	0.01	0.27	1.4560	90	0.70	.3 .2
28.7	3.525	30.749	24.449	7.49	2.07	0.00	0.00	0.02	0.32	0.8000	166	0.67	.2 .0
46.5	2.930	30.884	24.607	7.47	5.65	0.69	0.01	0.02	0.35	1.2475		0.95	.4 .1 .1



Ref. no. 45 Sta. c03 70.36 N
Time = 86285 433 Beaufort 144.28 W



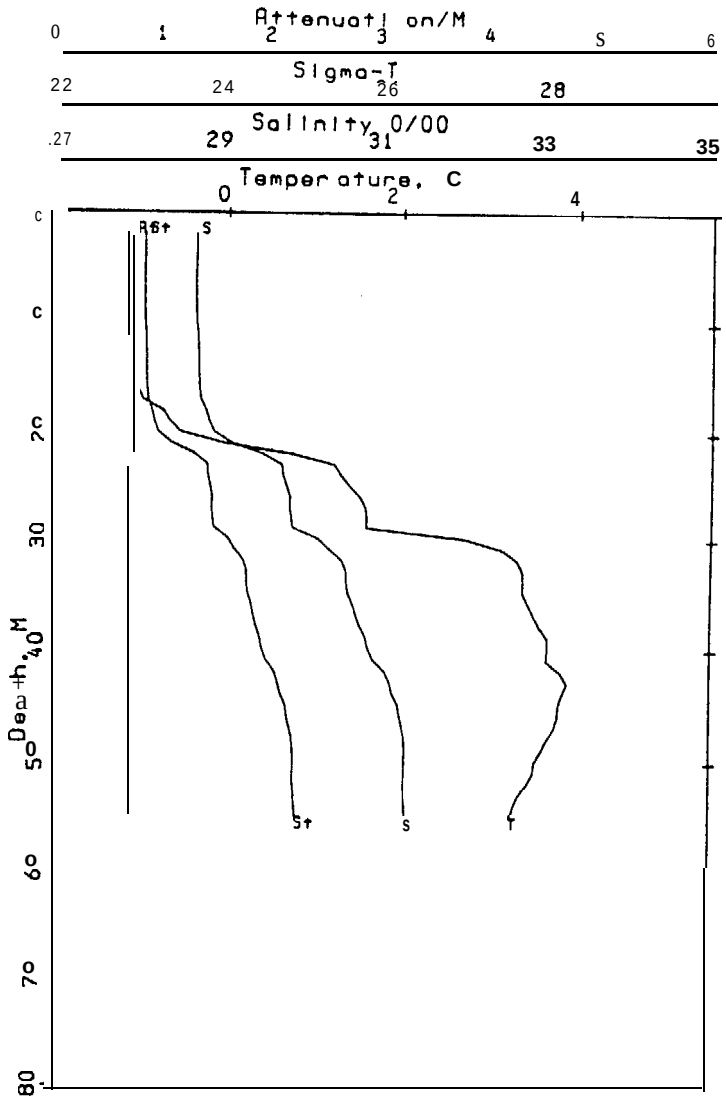
Ref. no. 44 Sta. c04 70.46 N
Time = 862850951 Beaufort 44.18 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C05a	37	11 OCT 86	0743	7033.60N	144 04.40W	0062 M

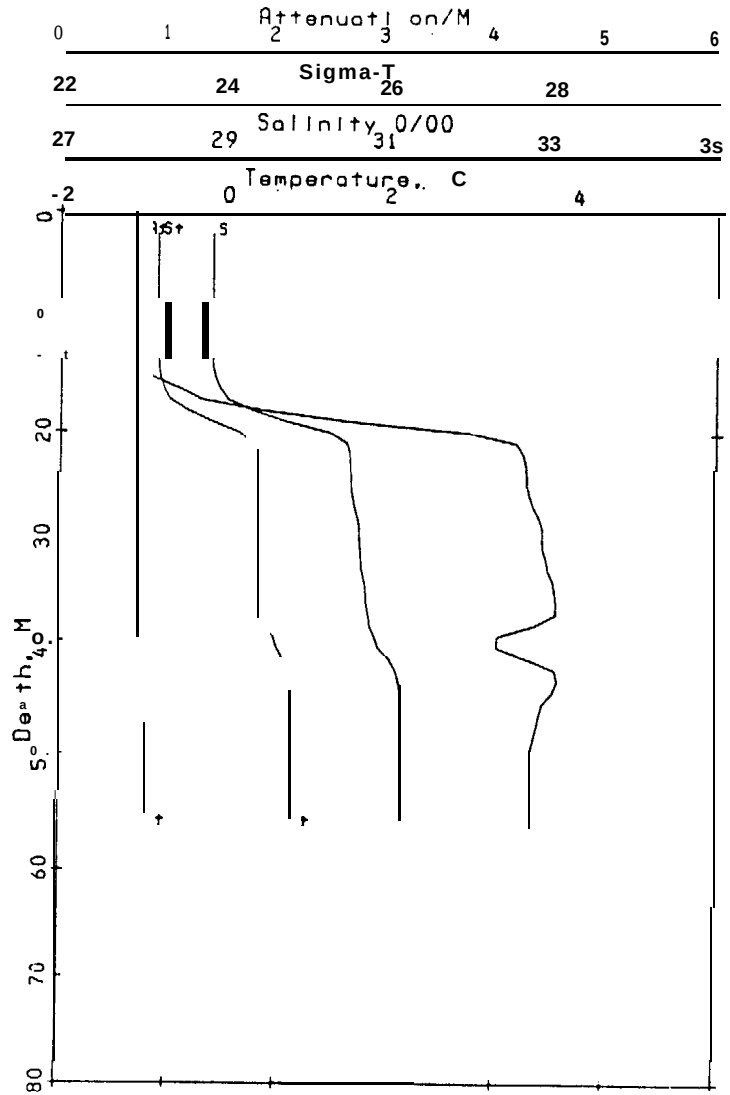
PRESS db	TEMP ‘ c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm 1^{-1}	NO_3 µm 1^{-1}	NO_2 µm l^{-1}	NH_3 µm 1-’	SPM mg 1^{-1}	PC µg 1-’	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.1	-1.059	28,880	23.196	8.45	2.22	0.68	0.00	0.00	0.17			0.76	
19.1	3,345*	30,610*	24.354	8.24	2.32	0.72	0.00	0.00	0.34			0.74	
46.4	3.479	31,262	24.861	7.31	6.02	0.93	0.36	0.04	1.50			0,81	
54.6	3.382	31,253	24.863	7.40	6.23	1.00	0.35	0.05	0.69			0.82	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C05b	43	12 OCT 86	0825	7033.80N	144 05.00W	0061 M

PRESS db	TEMP “c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm 1-’	NO_3 µm l^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-*	LT.AT m^{-1}	CHLR-A µg 1-’
4.5	-1.185	28.743	23.088	8.41	1,64	0.60	0.00	0.00	0.19			0.72	
19.4	-().625*	28.944*	23.239	7.55	2.62	0.61	0.00	0.02	0.13			0.73	
49.9	3.535	31.385	24.954	7.27	6.26	().7 I	().31	0.04	0.43			0.72	
55.0	3.242	31.400	24.992	7.30	6.13	0.64	0.30	().()4	0.48			().73	



Ref. no. 37 Sta. c05 70.56 N
Time = 862840743 Beau Fort 144.07 W



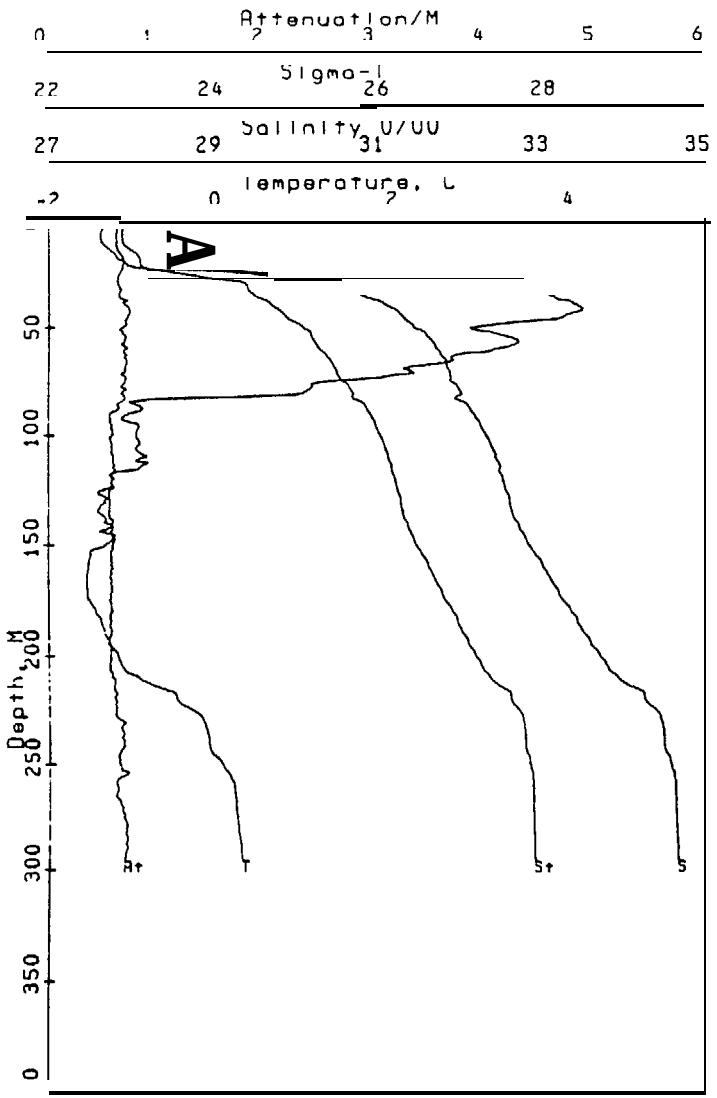
Ref. no. 43 Sta. c05 70. S6 N
Time = 862850825 Beaufort 144.08 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C06	38	11 OCT 86	0948	7038.90N	143 57.30W	0305 M

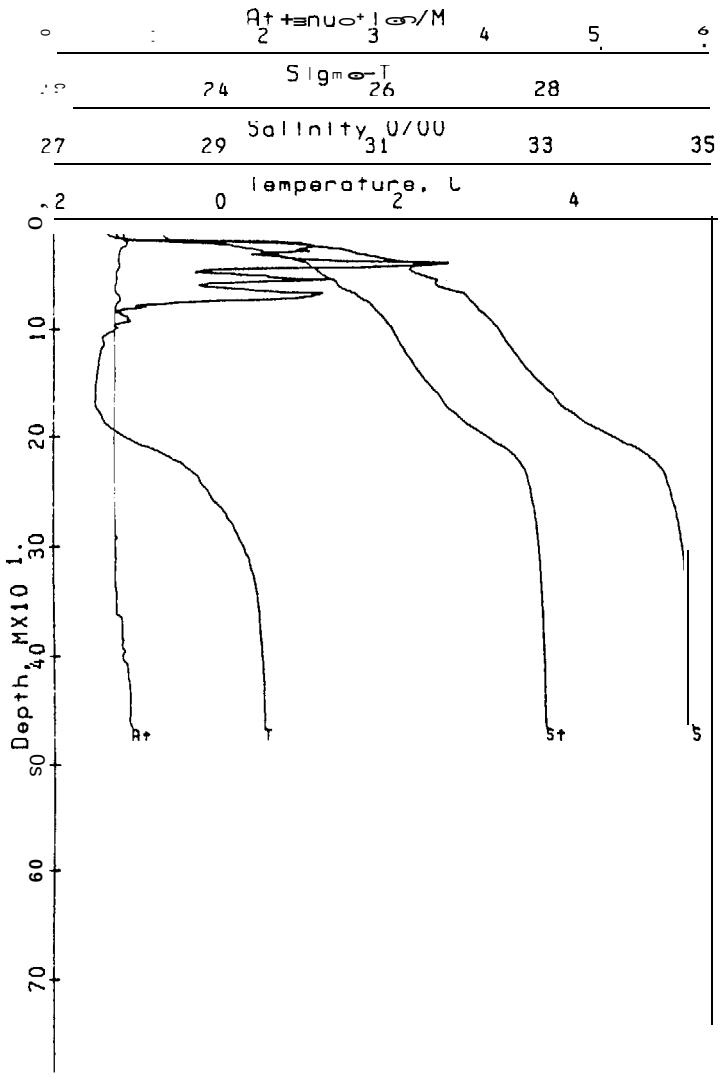
PRESS db	TEMP °c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.8	-1.404	28.470	22.870	8.68	1.97	0.81	0.03	0.()()	0.10		120	0.62	1.4
8.7	-1.430	28.470	22.870	8.67	1.97	1.84	0.03	0.00	0.08		279	0.63	2.0 2.1
19.3	-1.240	28.742	23.088	8.49	2.07	0.87	0.03	0.00	0.18		229	0.84	,2
29.2	3.133*	30.588*	24.354	7.56	2.59	0.86	0.03	0.00	0.98		250	0.73	.4 1.9
49.3	3.890	31.392	24.927	7.32	5.34	0.98	0.10	0.05	1.56	0.6940	177	0.80	1.4
164.1	-1.546	33.141	26.664	6.80	31.83	2.09	12.72	0.03	0.08	0.8710	111	0.70	.2
296.2	0.227	34.757	27.898	6.50	11.79	1.25	12.11	].()-1	0.13	1.3517		().72	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C07	39	11 OCT 86	1222	7045.40N	143 46.80W	0474 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml 1-'	SiO_4 µm l^{-1}	PO_4 µm 1-'	NO_3 µm l^{-1}	NO_2 µm 1"'	NH_3 µm l^{-1}	SPM mg 1" 1	PC µg 1"'	LT.AT m^{-1}	CHLR-A µg 1"'
4.2	-1.384	28.330	22.756	8.65	1.71	0.99	().02	().()()	0,23			0.64	
48.5	-0.186*	31.450	25.249	8.78	6.15	1.34	0.56	().26	0.53			().57	
99.1	-1.242	32.429	26.077	7.62	22.36	2.13	7.77	().13	0.84			0.55	
149.4	-1.522	32.978	26.530	6.72	32.21	2.38	13,50	0s)0	0.05			0.55	
199.9	-1.143	33.873	27.245	6.49	28.71	2.14	13.94	().()()	0.04			0.55	
299.2	o. I 80	34.7 32	27. 880	6.58	11.11	1.38	1 2.46	0.0 3	0.1 I			(), 58	
467.5	0.412	34.855	27.966	6.74	10.04	1.38	12.?)7	().() 1	0.06			0.67	



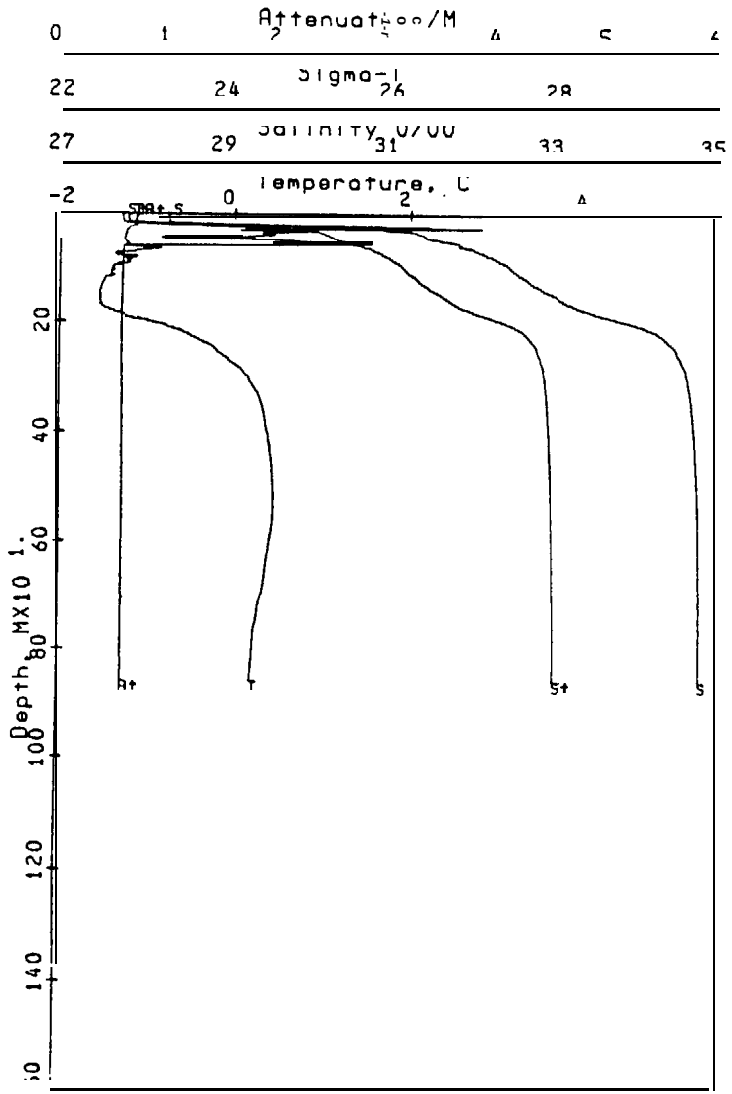
Ref. no. 38 Sta. c06 70.65 N
Time = 862840948 Beaufort 143.96 W



Ref no. 39 Sta. c07 70.76 N
Time = 862841223 Beaufort 143.78 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM" DEPTH
C08	40	11 OCT 86	1506	7050.80N	143 42.40W	0860 M

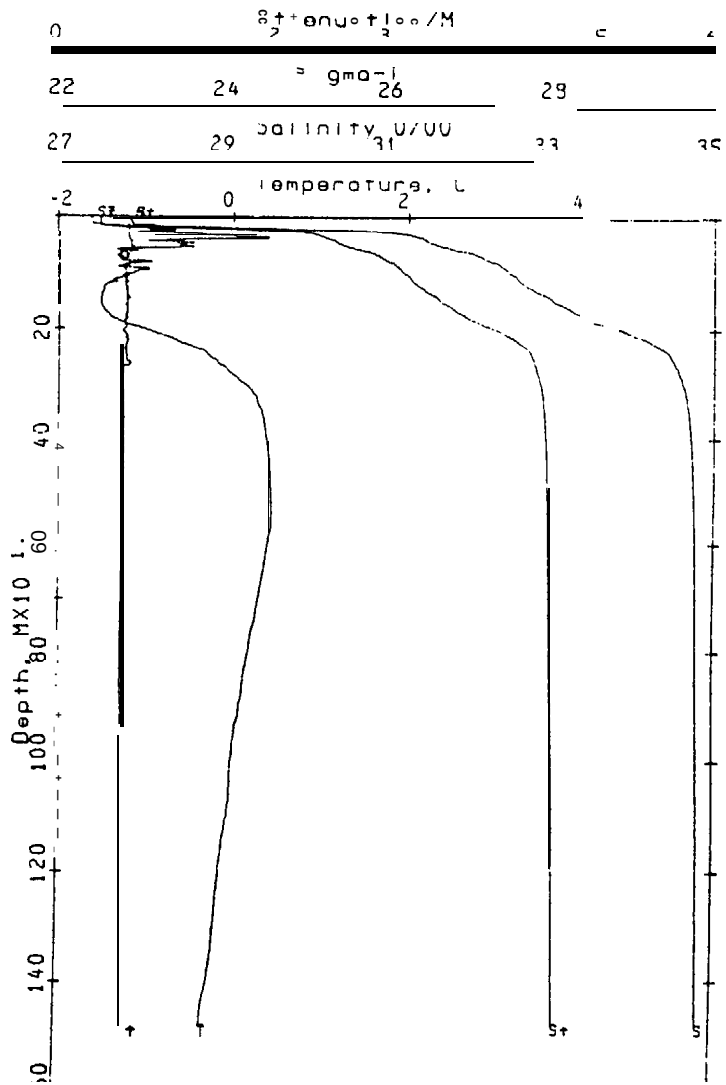
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	S10 µm l^{-1}	µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.6	-1.206	28.300	22.729	3.28	1.91	1.18	0.00	0.00	0.11				0.66	
18.7	-0.320*	28.946*	23.232	8.33	1.92	1.09	0.00	0.00	0.29				0.67	
49.1	0.733*	31.546	25.283	8.38	6.70	1.48	1.05	0.20	0,71				0.57	
99.0	-1.300	32.495	26.132	7.55	24.51	2.27	8.19	0.13	0.88				0.54	
149.2	-1.542	33,093	26.624	6.71	32.89	2.53	13.61	0.00	0.02				0.54	
198.7	-1.075	33.967	27.319	6.24	28.66	2.17	14.13	0.00	0.00				0.54	
300.9	0,166	34.731	27.880	6.51	10.65	1.30	12.17	0.00	0.00				0,55	
499.4	0.440	34.849	27.960	6.62	7.79	0.91	11.97	0.00	0.00				0.55	
855.0	0.253	34.832	27.957	6.94	7.69	1.28	12.13	0.00	0.00				0.58	



Ref. no. 40 Sta. c08 70.85 N
Time = 862841507 Beaufort 43.7 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
C09	41	11 OCT 86	1803	7056.80N	143 43.70W	1479 M

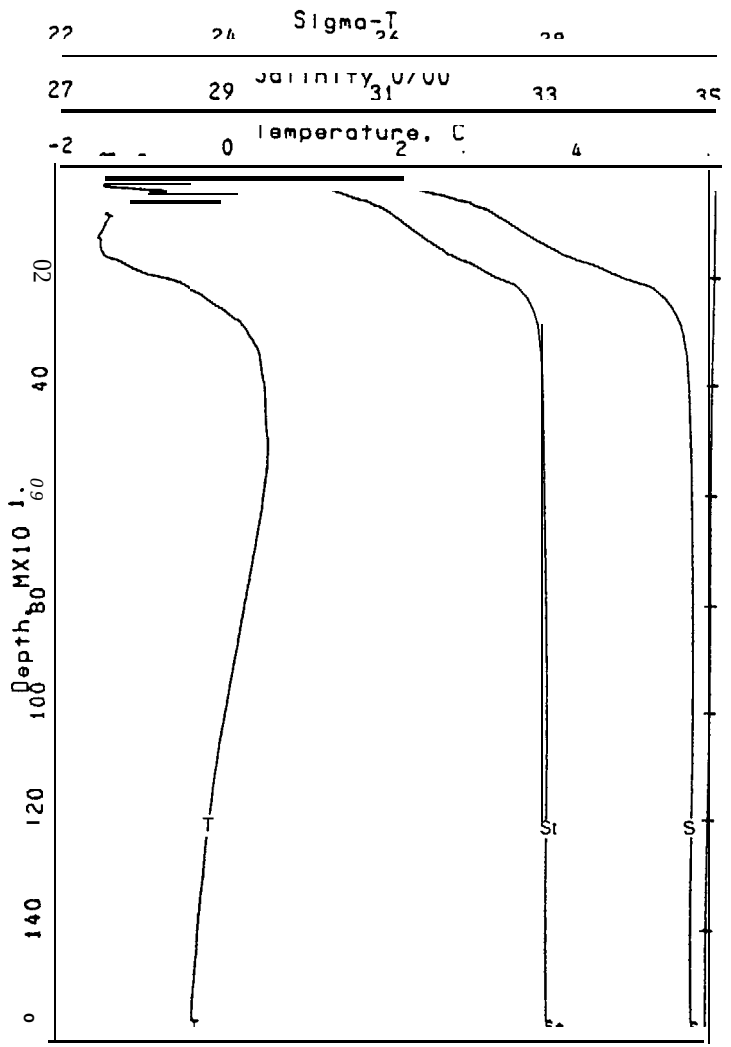
PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.5	-1.510	27.920	22.424		3.78	0.85	0.12	0.00	0.00		102	0.59	.2
4.6	-1.509	27.917	22.422		3.75	0.86	0.11	0.00	0.00	0.8290	52	0.59	.2 .2
9.7	-1.510	27.925	22.429		3.72	0.86	0.10	0.00	0.00		107	0.59	.3 .2
19,0	-1.338	28.512*	22.903		3.48	0.86	0.09	0.00	0.00		151	0,60	.2 .3
28.8	-0.259*	31.138	25.000	9.27	4.99	1.01	0.21	0.09	0.04		148	0.56	.2 .1
49.0	-1.510	31.626	25.432	9.35	6.30	1.13	1.03	0.21	0,00		160	0.53	.2 .1
99,7	-1.371	32.548	26.178	7.71	23.67	1.74	8.47	0.15	0.46	1.2017	193	0.54	.1
149.1	-1.516	33.120	26.646	6.49	34.46	2.14	15.47	0.00	0.00			0.54	
250.0	-0.302	34.544	27.754	6.60	15.99	1.14	13.09	0.00	0.00			0.54	
499.6	0.430	34.847	27.959	6.87	8.34	0.93	12.90	0.00	0.00	0.6500		0.56	
997.3	-0.016	34.894	28.022	6.97	7.99	0.90	12.89	0.00	0.00			0.58	
1478.5	-0.330	34.918	28.057	7.00	9.71	0.96	13.75	0.00	0.00	0.6865		0.59	



Ref. ∞. 41 Sta. c°9 70.95 N
T me = 862∃4 ∃°3 Beau 143.73 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
Clo	42	11 OCT 86	2223	71 01.20N	143 32.90W	1608 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1"'	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.6	-1.499	27.915	22.421	9.19	4.24	0.92	0.03	0.00	0.07			0.58	
19,5	-1.410	29.620	23.803	9.41	5.08	1.08	0.22	0.05	0.13			0.58	
49.1	-1.453	31.629	25.433	9.06	7.15	1.26	1.49	0.19	0.16			0.54	
99.3	-1.351	32.520	26.154	7.73	27.56	2.01	9.76	0.12	0.63			0.54	
149.2	-1.525	33.100	26.629	6.72	34.69	2.22	15.23	0.00	0.04			0.55	
199.0	-0.972	34.015	27.354	6.13	30.48	1.83	15.83	0.00	0.08			0.54	
298.8	0.143	34.723	27.875	6.63	12.06	1.08	13.60	0.00	0.01			0.56	
499.0	0.429	34.850	27.961	6.82	8.57	1.02	13.37	0.00	0.10			0.56	
697.6	0.312	34.881	27.993	6.94	7.46	0.99	13.36	0.00	0.12			0.56	
998.8	-0.024	34.897	28.025	6.99	7.78	1.00	13.48	0.00	0.10			0.58	
1248.3	-0.213	34.909	28.044	6.97	8.31	1.06	13.72	0.00	0.05			0.59	
1562.9	-0.355	34.926	28.065	6.89	10.39	1.13	14.10	0.00	0.03			0.60	



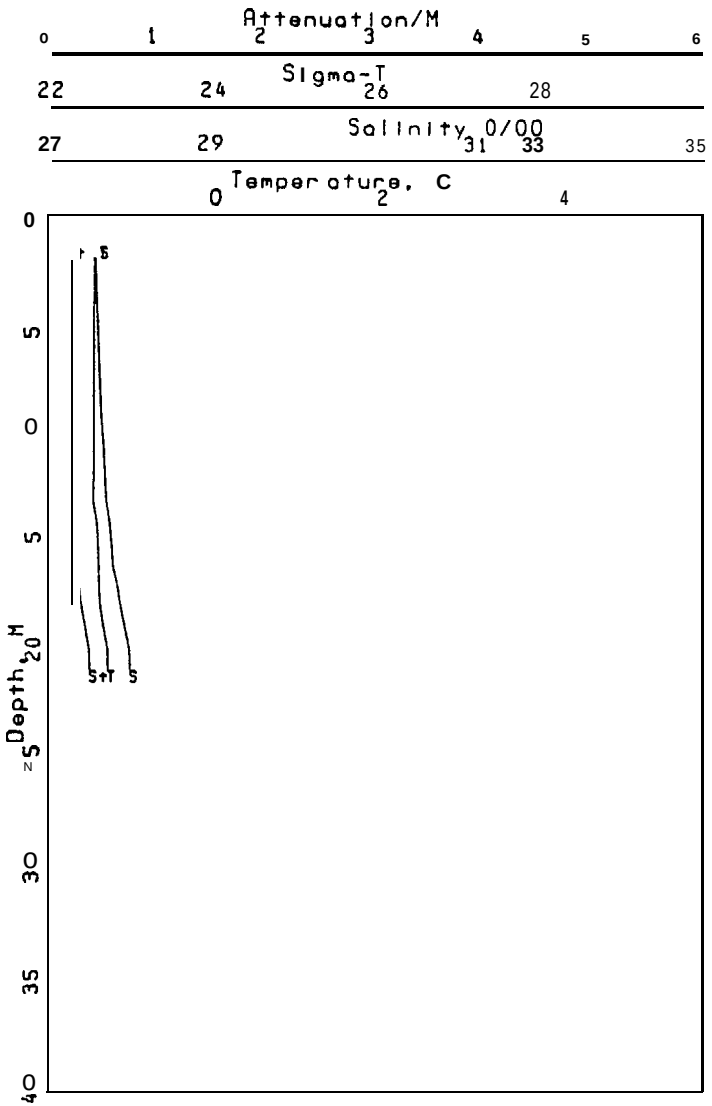
Ref. no. 42 Sta. c10 71.02 N
Time = 862842223 Beaufort 43.55 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D01	49	13 OCT 86	0230	69 50.70N	141 30.80W	0026 M

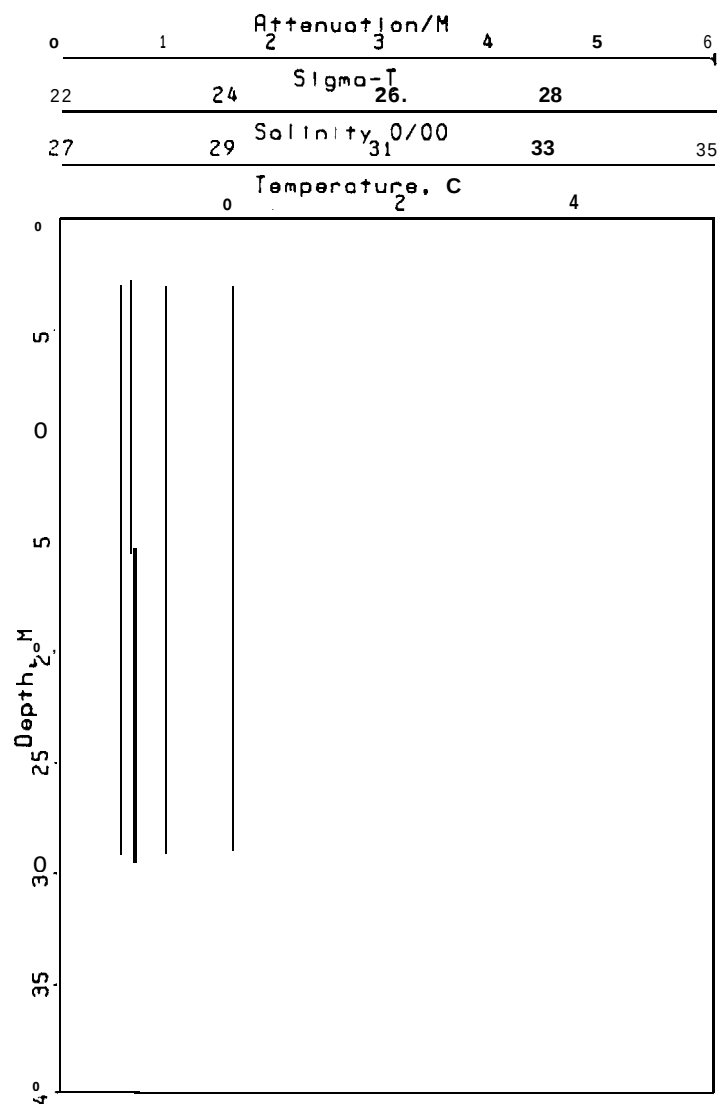
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
3.7	-1.472	28.137	22.601	8.70	4.04	0.70	0.04	0.00	0,22				
20.7	-1.310	28.056	22.533	8,71	4.40	0.79	0.00	0.00	0.22				

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D(L!	50	13 OCT 86	0347	69 53.50N	141 28.60W	0035 M

PRESS db	TEMP °C	SAL	SIGMA-T	O_2 ml l^{-1}	S10 $_4$ µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	S PM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.4	-1.191	28.326	22.750	8.40	3.12	0.69	0.()()	0.00	0.19	2.7030"	2.30	1.56	
9.5	-1.170	28.329	22.752							2.5737	220	1.58	
19.5	-1.134	28.340	22.761	8.41	3.22	0.69	0.00	0.00	0.21 "	2.2965	355	1.59	
28.8	-1.129	28.340	22.761	8.38	3.21	0.68	0.00	0.00	0.22	2.2210		1.62	



Ref. no. 49 Sta. d01 69.84 N
Time = 862860230 Beaufort 141.51 w



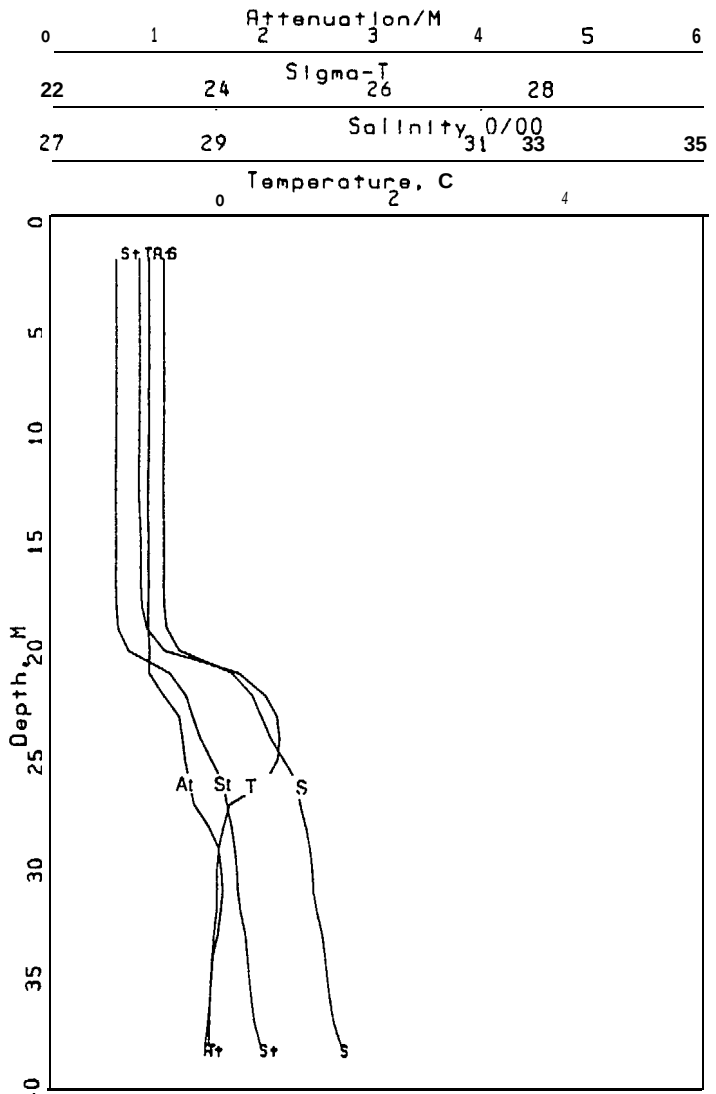
Ref. no. 50 Sta. d02 69.89 N
Time = 862860348 BeauFort 141.48 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D03	51	13 OCT 86	0606	7000.00N	141 25.50W	0044 M

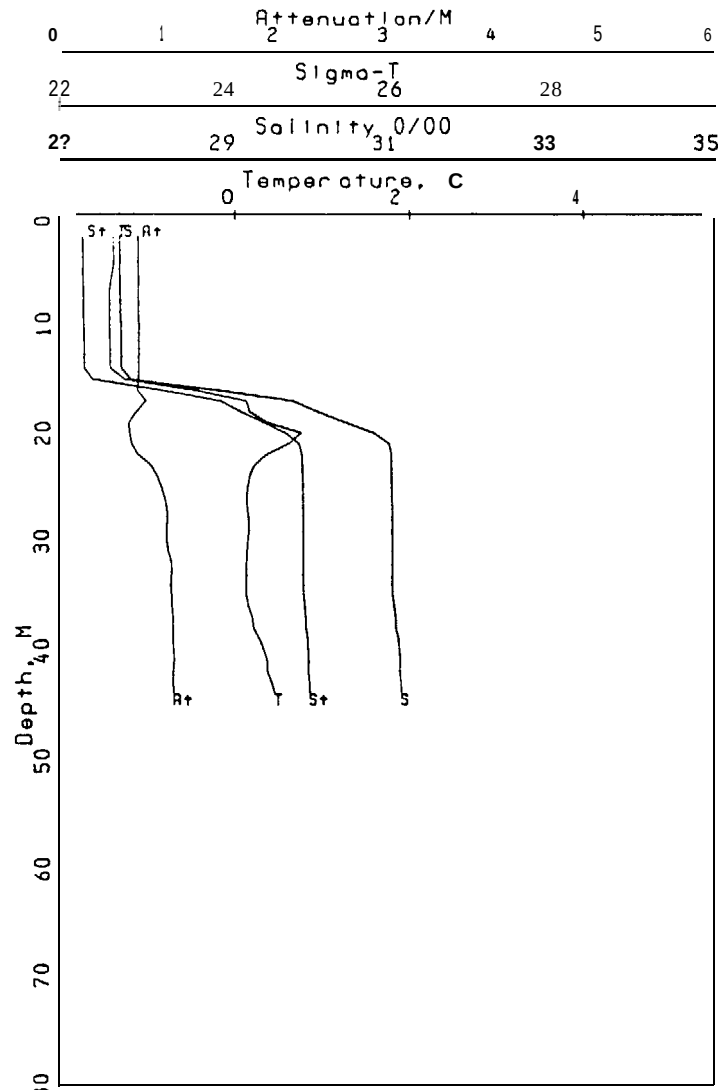
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-'	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.8	-0,984	28.399	22.806	8.37	2.82	0.70	0.00	0.00	0.39	1.1645	261	0.89	
19.5	-0.920*	28.429*	22.829	8.25	3.29	0.80	0.00	0.00	0.00	1.6690	203	0.88	
29.3	-0.089	30.210	24.244									1.55	
37.8	-0.215	30.692	24.638	8.38	7.29	0.99	0.65	0.02	0.13	2.2050	475	1.46	

STATION	CAST	DATE	TIME	LATITUDE;	LONGITUDE	BOTTOM DEPTH
D04	52	13 OCT 86	0725	7006.50N	141 25.90W	0051 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-*	LT.AT m^{-1}	CHLR-A µg l-'
1.2	-1.448	27.771	22.304	8.46	2.62	0.71	0.00	().0()	0.33		268	0.73	.3
4.3	-1.423	27.767	22.300	8.46	3.19	0.71	0.00	0.00	0.29	1.2555	220	().72	.2 .2
9.6	-1.437	27.767	22.300	8.52	3.88	0.84	().02	0.0[)	0.74		505	().71	.2
19.6	0.670*	30.934*	24.794	8.42	6.84	1.00	0.42	().()I	1.03	1.4285	268	().63	.0 .2
29.7	0.142	31.111	24.962	8.33	9.01	1.10	0.00	0.02	1.10	1.8273	321	1.00	.2 .2
44.0	0.446	31.221	'25.036	8.22	9.35	1.05	0.74	0.02	0.99	2.0135	253	I.05	.3 .1



Ref. no. 51 Sta. d03 70.00 N
Time = 862860606 Beaufort 141.42 W



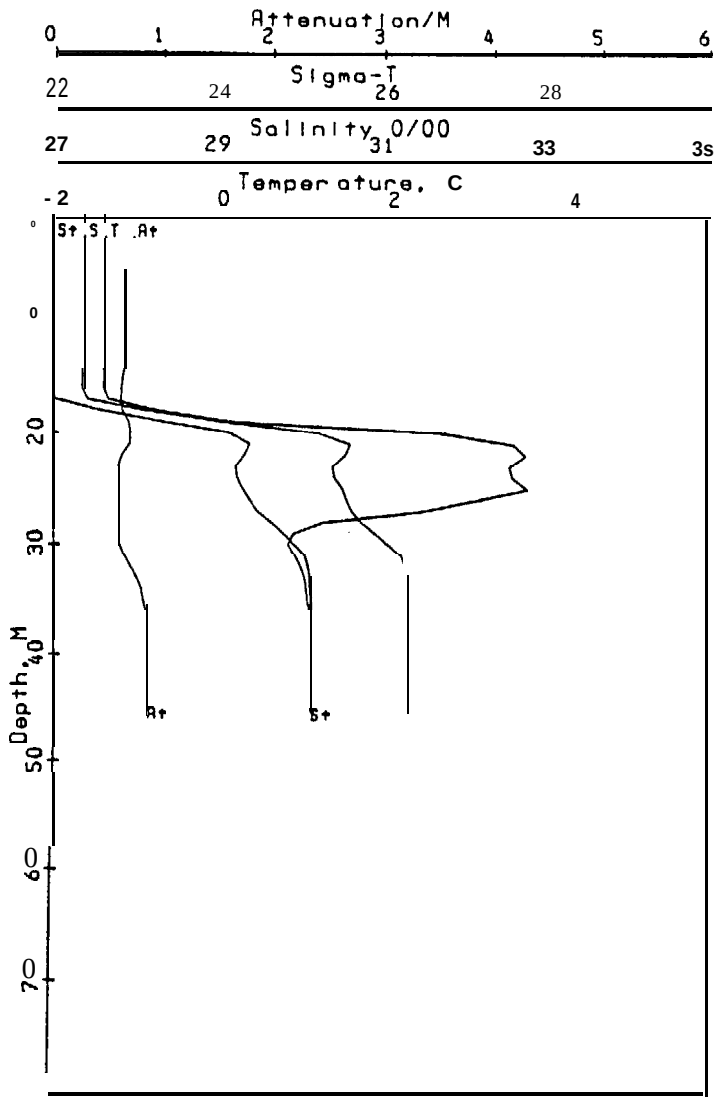
Ref. no. 52 Sta. d04 70.11 N
Time = 862860725 Beaufort 141.43 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D05	53	13 OCT 86	0847	7013.00N	141 23.30W	0052 M

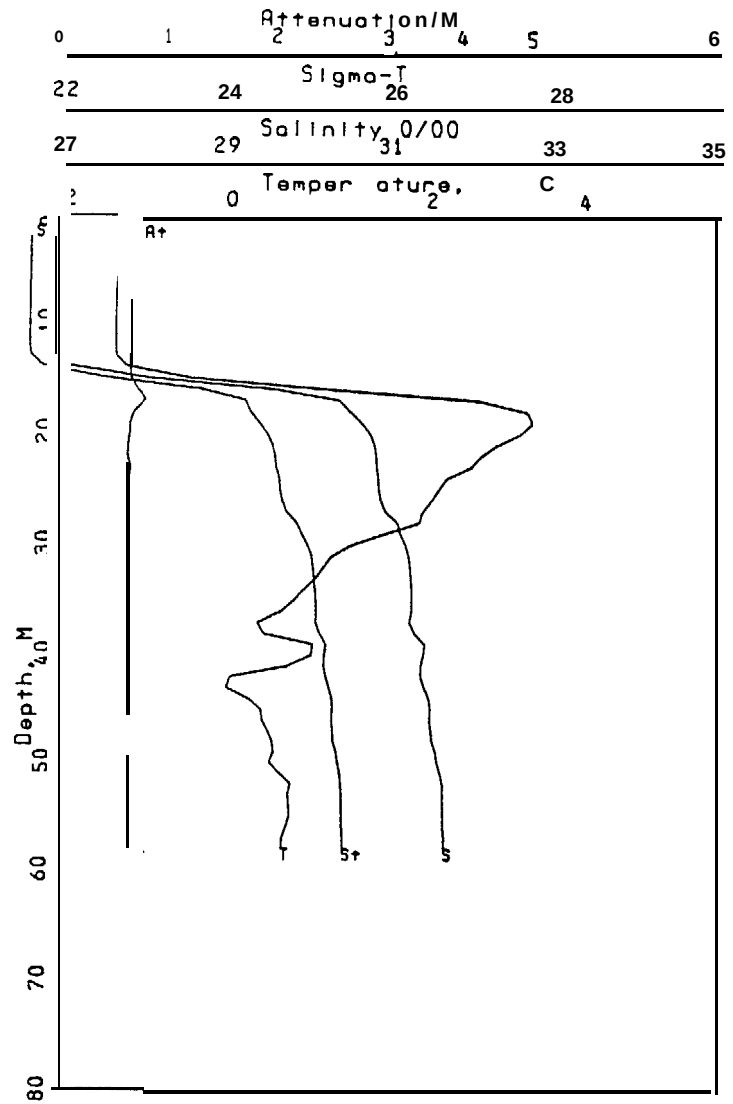
PRESS db	TEMP ‘	SAL c	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	$N0_2$ µm 1"'	NH_3 µm 1"'	SPM mg 1"'	PC µg 1"'	LT.AT m^{-1}	CHLR-A µg 1"'
0.4	-1.393	27.362	21.972	8.60	2.74	0.62	0.00	0.00	0.02		202	0.64	.0
													.1
4.3	-1.417	27.361	21.971	8.62	2.68	0.66	0.00	0.00	0.07	1.3090	248	0.63	.1
													.1
9.5	-1.413	27.360	21.970	8.50	2.72	0.71	0.00	0.00	0.60		123	0.63	.2
18.6	3.195*	30.633*	24.385	8.15	3.20	0.79	0.00	0.00	0,76		116	0.59	
													.1
29.2	0.645	31.139*	24.961	8.34	7.56	1.77	0.07	0.06	0.76	().8700	69	0.69	
39.4	0.946	31.394	25.149	8.04	7.89	0.95	0.00	0.07	1.18	1.9880	330	0.91	
45.1	0.946	31.395	25.150	8.07	7.93	().93	0.74	().()7	1.20	1.5575	I 70	0.90	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D06	54	13 OCT 86	1039	70 19.90N	141 21.20W	0066 M

PRESS db	TEMP ‘c	SAL	SIGMA-T	0_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm 1^{-1}	$N0_2$ µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1"'
3.6	-1.372	26,913	21.607	8.42	3.48	0.76	0.12	0.00	0.22			0.65	
19.3	3.268*	30.699”	24.432	7.73	3.63	0.76	0.11	().01	0.97			0.63	
49.7	0.460	31.659	25.389	8.17	7.89	0.95	1,30	0.18	0.86			0.64	
58.1	0.317	32.005	25.674	8.01	9.23	1.03	1.79	0.18	0.89			0.63	



Ref. no. 53 Sta. d05 70,22 N
Time = 862860847 Beaufort 141,39 w



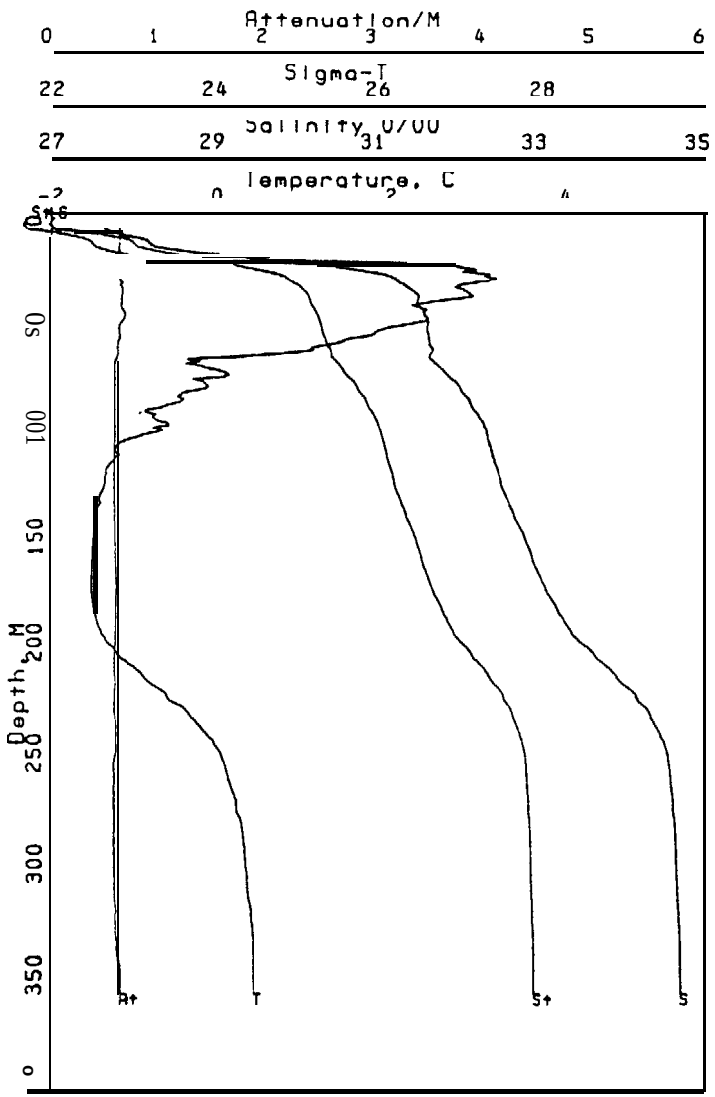
Ref. no. 54 Sto. d06 70.33 N
Time = 862861039 Beaufort 141.35 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D07	55	13 OCT 86	1239	7025.50N	141 19.70W	0359 M

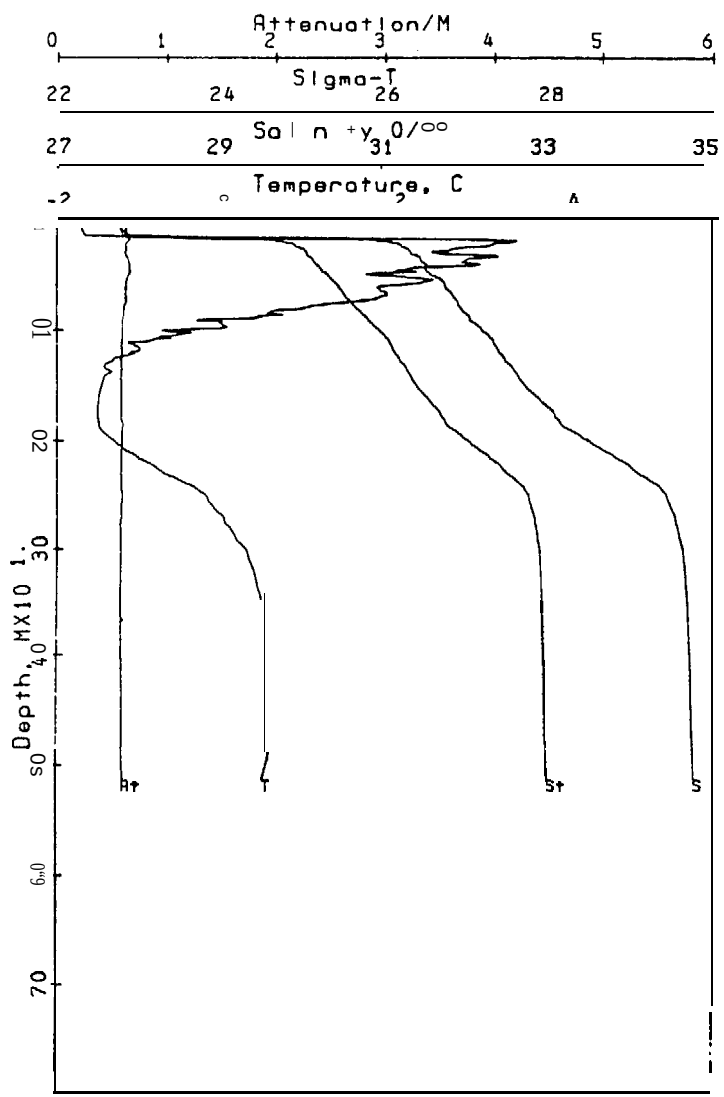
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.4	-1.408	26.960	21.646	8.61	3,16	0.74	0.00	0.00	0.00		243	0.62	.1
4.3	-1.408	26.972	21.655	8.57	2.56	0.71	0.00	0.00	0.00	0.7555	245	0.63	.1 .1
8.9	-0,833	27.999*	22.479	8,49	2.17	0.71	0.00	0.00	0.00		120	0.63	.1 .2
18,7	-0.224*	28,715*	23.042	7.96	2.86	0.75	0.11	0.01	0.70		167	0,63	.2 .1
29.1	3.087*	31.257*	24.891	7,59	5.07	0.86	0.33	0.07	1.23		67	0.63	.1 .1
48.9	2.325	31.674	25.284	7.81	6.30	0.90	0.78	0.15	1.22	0.6230	95	0.67	.2
99.1	-0.878	32.398	26.041	7,65	20.27	1.41	6.66	0.17	0.69			0.58	
164.0	-1.544	33.055	26.594	6.61	32.20	1.67	13.38	0.01	0.08	1.1360		0.59	
354.6	0.340	34.808	27.932	6.44	10.64	0,93	12.61	0.01	0.15	0.9955		0.65	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D08	56	13 OCT 86	1612	7032.20N	141 19.50W	0518 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.0	-1.271	27.753	22.287	8.41	3.71	0.72	0.00	0.00	0.22			0.62	
20.4	3.286*	31.152*	24.791	7.59	4.72	0,75	0.26	0.02	1.08			0.62	
49.2	1.858*	31.661	25.307	8.11	6.50	0.87	0.62	0.14	1.19			0.63	
99.7	-0.378	32.265	25.915	7.70	15.83	1.30	4.90	0.20	1.26			0.58	
148.1	-1.487	32.762	26.354	6.95	28.72	1.63	11.55	0.11	0.27			0.56	
200.0	-1.395	33.537	26.981	6.35	32.01	1,60	14.35	0.01	0.06			0.57	
300.1	0.146	34.728	27.879	6.33	11.96	0.95	12.86	0.01	0.08			0.56	
498.9	(-).407	34.867	27.976	6.56	8.66	0.87	12.22	0.01	0.00			0.59	
513.4	0.363	34.876	27.986	6.61	8.70	0.88	12.66	0.01	0.00			().6 I	



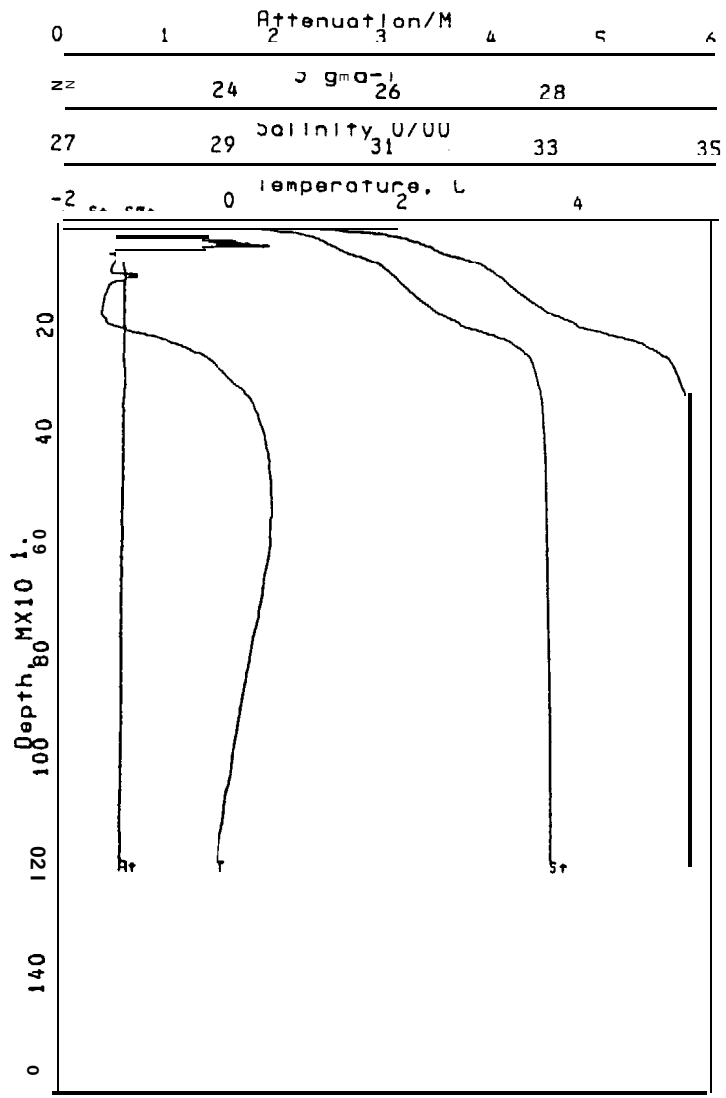
Ref. 55 Sta. d07 7° 42 N
T me = 862861239 Beaufort 141.33 W



Ref. no. 56 Sta. d08 70.54 N
Time = 862861612 Beaufort 141.32 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D09	57	13 OCT 86	2006	7038,60N	141 18.00W	1177 M

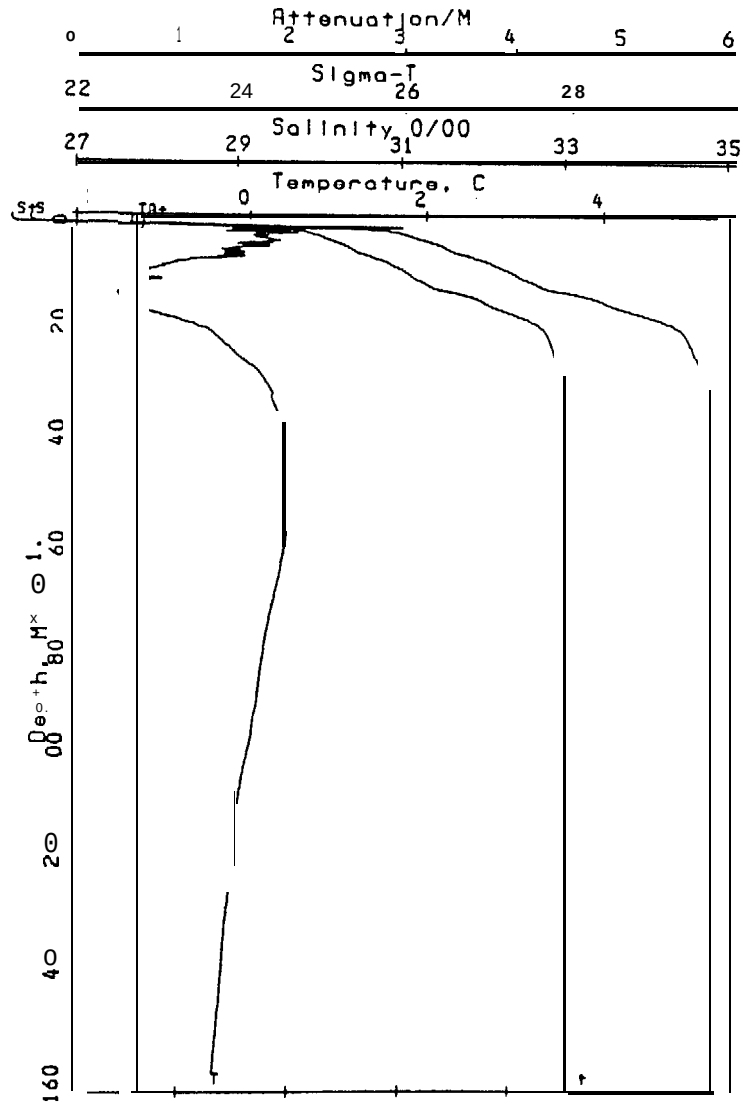
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg 1-'	PC µg 1"'	LT.AT m^{-1}	CHLR-A µg r'
1.6	-1,234	27.715	22.256	6.63	3.24	0.69	0.06	0.00	0.12		116	0.62	.3
4.6	-1.234	27.715	22.256	6.91	8.64	0.86	12.42	0.()()	0.11		166	0.62	.3 .4
9.6	-1.234	27.714	22.255	7.60	3.56	0.75	0.17	0.00	().06		268	0.62	.4 .1
18.5	-().845*	27.961*	22.449	8.55	3.67	0.73	0.15	().00	0.07		189	().62	.3 .2
28.6	0.389	3 1.096*	24.938	8.52	3.46	0.70	0.01	().()0	0.08		86	().56	3
49.3	-0.485*	31.482	25.286	8.65	3.13	0.75	0.00	0.00	0.23		51	0.56	.1 .0
98.3	-1.199	32.369	26.027	8.76	4.32	0.88	0.24	0.05	0.43	0.4275		0.55	.1
149.2	-1.510	32.817	26.399	8.69	6.05	0.94	0.84	0.24	0.20			0.56	
19 X.5	-1.458	33.492	26.946	7.50	20.30	1.33	7.41	0.12	0.39			0.56	
299.0	-0.087	34.640	27.820	6.80	30.02	1.60	11.93	0.03	0.00			0.57	
499.3	0.445	34.851	27.961	6.32	29.16	1.55	13.39	0.00	0.00	1.0530		0.57	
1177.7	-0.125	34.911	28.041	6.28	12.96	0.97	12.89	0.00	0.00	0.4405		0.59	



Ref. no. 57 Sta. 009 70.64 N
Time = 28 2006 Beaufort 4 3° W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
D1O	58	14 OCT 86	0207	7043.1ON	140 57.1OW	1758 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 pm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg 1-*	LT.AT m^{-1}	CHLR-A µg l^{-1}
4,1	**-1.360**	26.196	**21.026**	8.78	5.31	0.76	0.03	0.00	0.00			0.61	
18.8	**-0.802***	28.455*	**22.848**	8.95	4.14	0.80	0.03	0.00	0.00			0.59	
48.7	**-0.122***	31.366	**25,179**	8.45	7.07	0.99	0.79	0,22	0.23			0.58	
98.5	**-1.014**	32.239	**25.916**	7.71	20.14	1.47	6.97	0.12	0.31			0.55	
148.4	**-1.510**	33.101	**26.630**	6.79	32.88	1.75	13.49	0.03	0.00			0.56	
198.9	**-0.724**	34.269	**27.550**	6.13	23.61	1.26	14.22	0.00	0.00			0.55	
298.6	**0.158**	34.734	**27.883**	6.44	12.06	0.92	13.18	0.00	0.00			0.56	
499.1	**0.462**	34.858	**27.965**	6.69	8.83	0.92	13.01	0.00	0.00			0.56	
698.7	**0.277**	34.889	**28,001**	6.82	8.57	0.91	13.05	0.00	0.00			0.57	
998.3	**-0.005**	34.903	**28.028**	6.86	8.54	0.85	12.96	0.00	0.00			0.58	
1248.6	**-0.167**	34.911	**28.043**	6.83	8.73	0.86	13.22	0.00	0.00			0.59	
1566.0	**-0.343**	34.928	**28.066**	6.77	10.52	0.94	13.98	0.00	0.00			0.59	



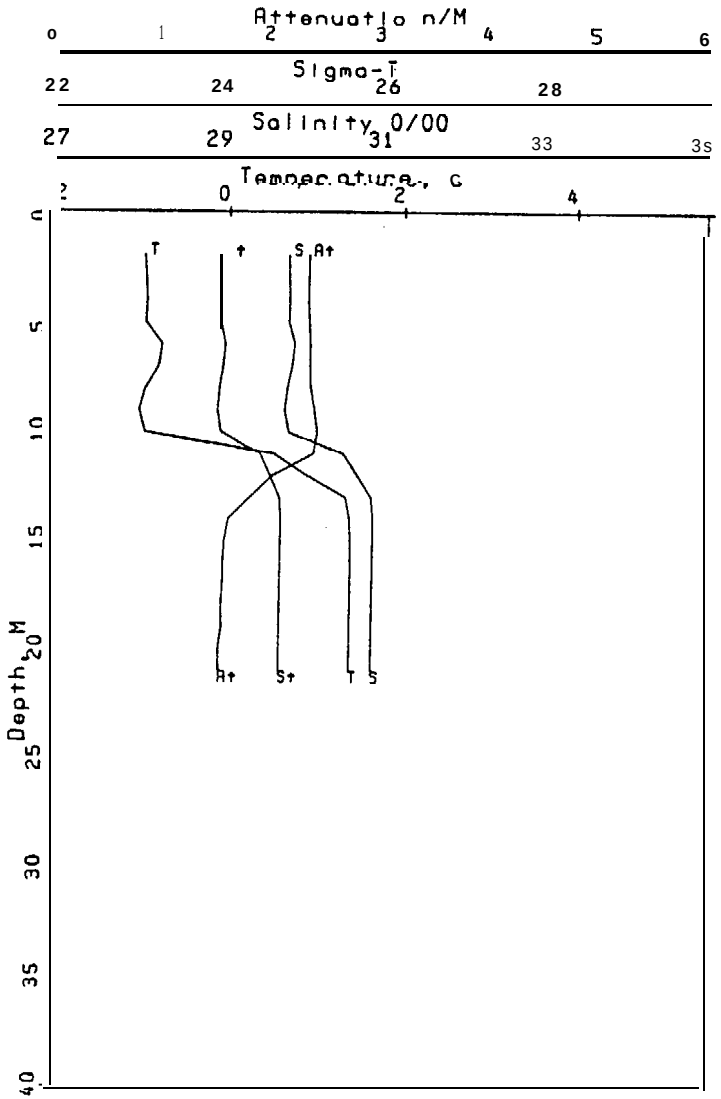
Ref. no. 58 Sta. d10 70.72 N
Time = 862870207 Beaufort 140.95 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
EO1	59	16 OCT 86	1857	7 100.00N	150 06.50W	27 M

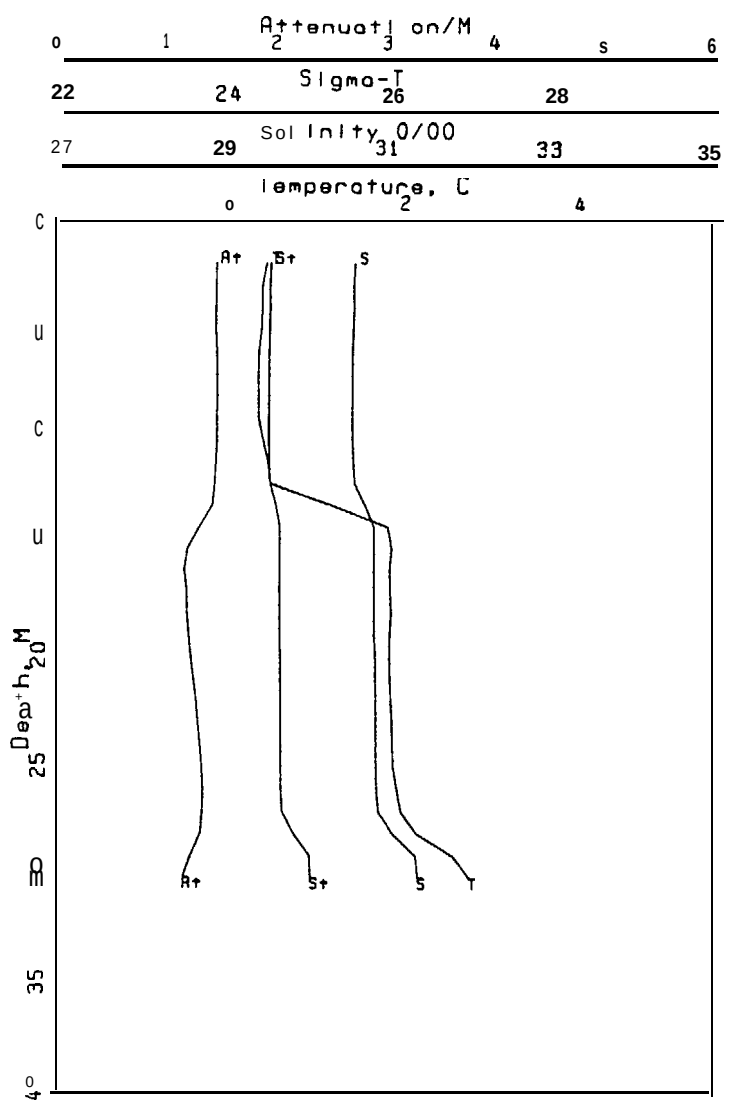
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 pm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.7	-0.979	29.839	23.971	8.19	6.39	0.65	0.00	0.04	0.63			2.33	
13.4	1.368*	30.916"	24.741	7.64	6.13	0.64	0.00	0.03	1.11			1.49	
21.1	1.385	30.927	24.749	7.63	6,16	0.63	0.00	0.03	1.34			1.50	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E02	60	16 OCT 86	2008	71 04.70N	150 04.00W	35 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.5	0.358	30.622	24.558	7.83	5.68	0.58	0.00	0.04	0.96		495	1.46	.3 .2
4,0	0.391	30.622	24.557	7.82	5.60	0.60	0.03	0.04	1.19	2.1840	283	1.42	.3 .2
9.5	0.269	30.590	24.536	7.79	5.63	0.61	0.07	0.04	1.34	2.3575	371	1.43	.2 .2
19.7	1.820	30.919	24.715	7.50	6.08	0.63	0.07	0.03	1.37	2.4260	417	1.23	.1 .3
29.9	2.778*	31.501*	25.111	7.27	7.07	0.73	0.18	0.05	1.72	2.2770	628	1.30	.2 .3



Ref. no. 59 Sta. 001 71.00 N
Time = 862891857 Beaufort 150.11 W



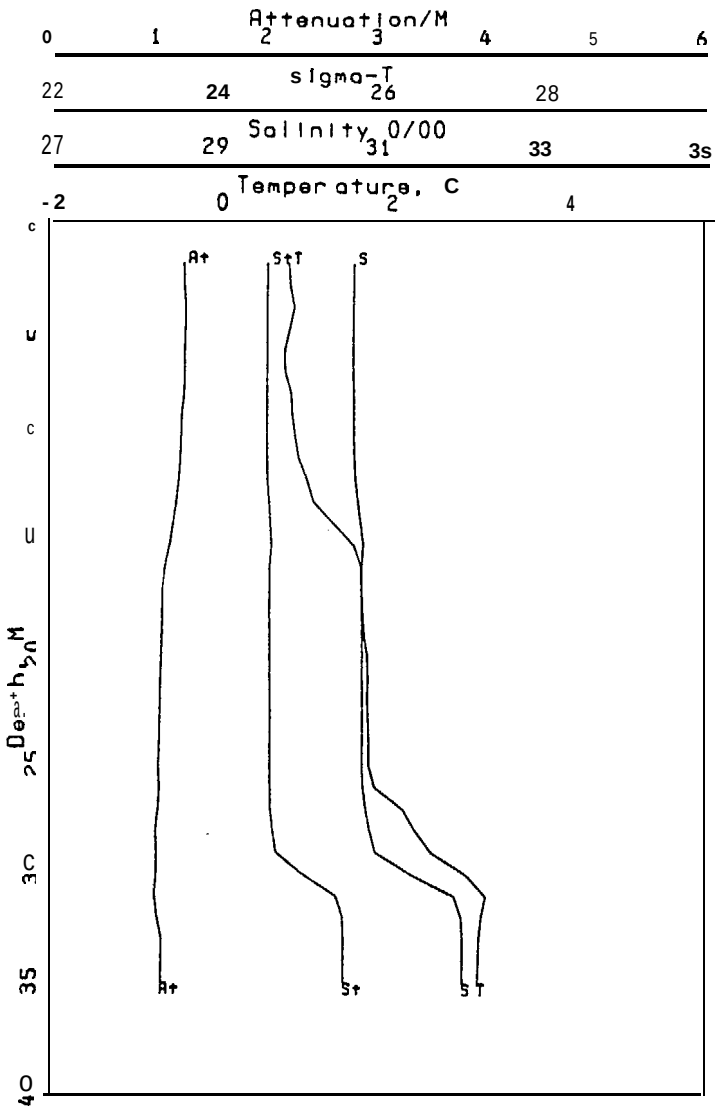
Ref. no. 60 Sta. eOZ 71.08 N
Time 862892008 Beaufort 150.07 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E03	61	16 OCT 86	2050	7106.60N	150 02.60W	0041 M

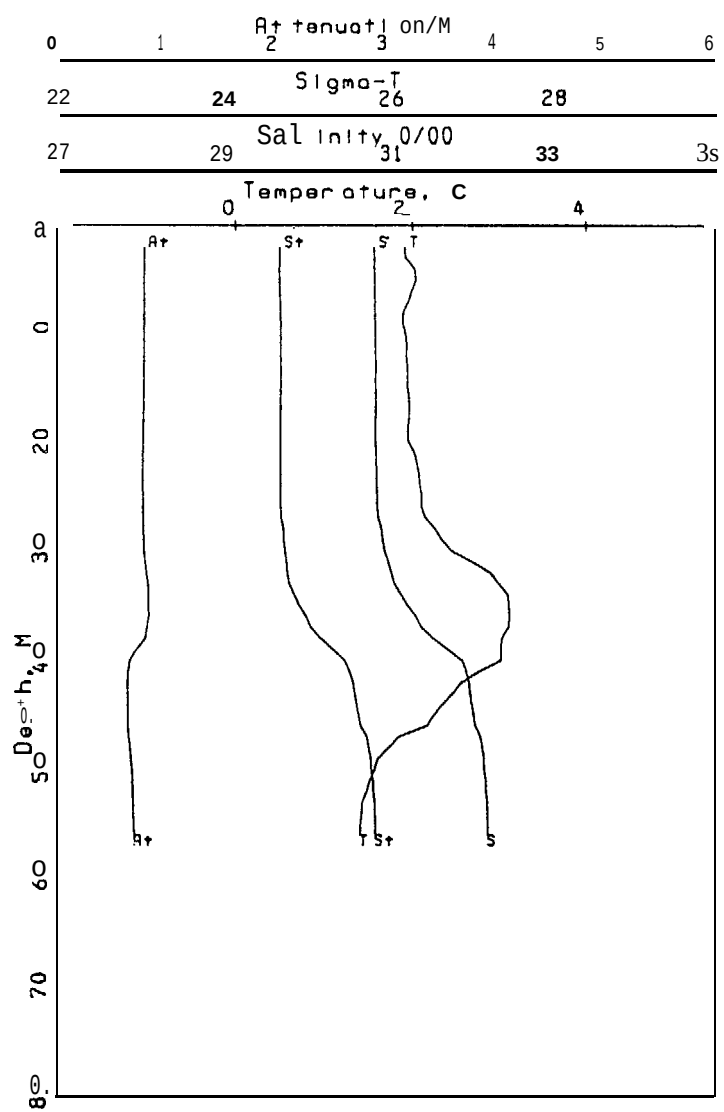
PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml 1-'	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm 1-*	NO_2 µm 1-'	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.4	0.775	30.715	24.613	7.70	5,64	0.62	0.00	0.04	1.06			1.19	
20.6	1.615	30.833	24.660	7.54	6.52	0.66	0.00	0.03	1.34			1.00	
35.2	2.899	32.109	25.587	7.00	9.19	0.80	0.00	0.07	2.20			1,10	

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E04	63	16 OCT 86	2243	71 12.00N	149 59.40W	0062 M

PRESS db	TEMP "c	SAL	SIGMA-T	0_2 ml l^{-1}	SIO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm 1-'	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg 1"'
0.9	1.922	30.891	24,686	7.57	7.74	0.70	0.30	0.05	I .56		503	0.78	.-! .5
3.7	1.992	30.883	24.675	7.46	7.31	0.75	0.27	0.05	1.38	0.9140	000	0.79	.4 .2
8.9	1.917	30.889	24.685	7.48	7.21	0.70	0.24	0.06	1.47	1.1690	049	0.79	.3 .3
18,9	2.009	30.898	24.686	7.47	7.10	0.66	0.21	0.06	1.42	1.2715	228	0.79	.2 .2
29.2	2.215*	30.946	24.710	7.39	7.42	0.74	0.23	0.06	1.33	1.4705	000	0.80	.3 .3
49.0	1.517	32.245	25.798	7.42	10.18	0.93	2.20	0.11	1.66	0.7530	325	0.70	.2 .1
56.0	1.423	32.271	25.825	7.43	10.18	0.98	2.21	0.12	1.68	1.5610	000	(),73	



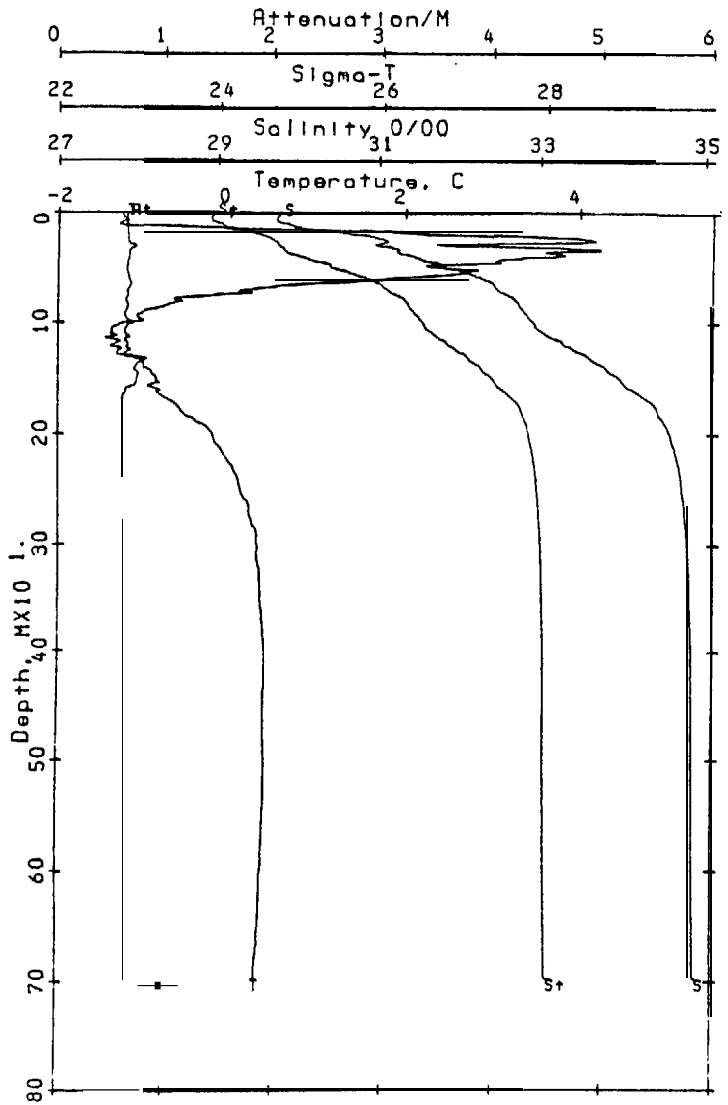
Ref. no. 61 Sta. e03 71.11 N
Time = 862892050 Beaufort 150.04 w



Ref. no. 63 Sta. 904 71.20 N
Time = 862892243 Beaufort 149.99 W

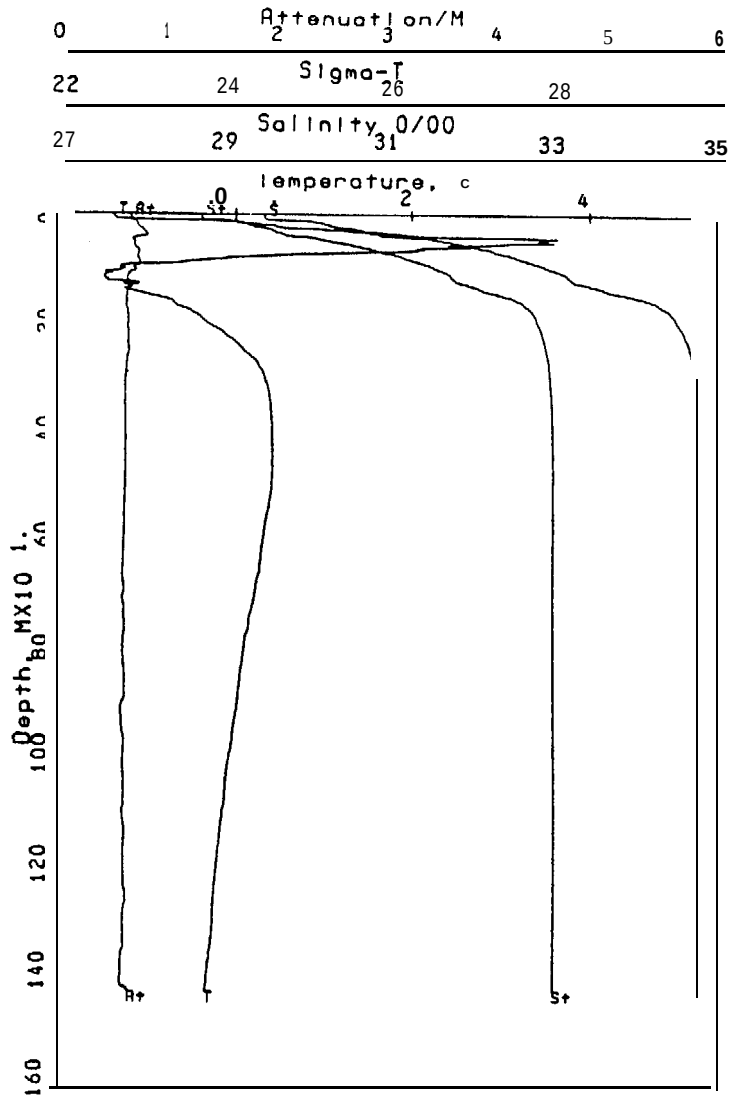
STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E05	64	17 OCT 86	0026	71 16.30N	149 57.90W	0700 M

PRESS db	TEMP *c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1,1	-1.323	29.685	23,854	8.26	2.85	0.51	0.00	0.02	0.00		31	0.64	.4
3.9	-1.332	29.694	23.861	8.16	3.48	0.55	0.00	0.02	0.36	0,4965	238	0.63	.3 .4
8.3	-1.239	29.815	23.958	8.06	3.89	0.61	0.00	0.03	0.50			0.64	.2 .3
19.3	1.819*	30.363*	24.270	7.50	5.57	0.70	0.00	0.03	0.95		19	0.63	.4 .2
28.6	3.490*	31.083	24.718	7.23	6.94	0.75	0.01	0.04	1.75		698	0.65	.2 .2
48.7	2.266	31.771*	25.366	7.48 7.50	7.46 7.66	0.77 0.78	0.68 0.72	0.08 0.08	1.39 1.54	0.7150	470	0.62	.2 .5
113.6	-1.413	33.149	26.666	6.78 6.78	29.48	1.74	12,41	0.13	0.86	0.6550		0.65	
149.0	-0.859	33.910	27.264	6.44 6.40	25,22 25.00	1.37 1.35	13.36 13.35	0.14 0.14	0.65 ().71			0.72	
198.6	-0.308	34.530	27.742	6.29 6.29	15.34 15.23	0.96 0.97	13.07 13.02	0.08 0.08	0.06 0.03			0.61	
298.5	0.303	34.784	27.915	6.62	9.28	0.77	12.55	0.04	0.06			0.60	
697.4	0.300	34.881	27,994	6.76	8.00	0.71	12.55	0.08	0.03	1.1385		0.62	


Attenuation/M
0 1 2 3 4 5 6
Sigma-T
22 24 26 28
Salinity 0/00
27 29 31 33 35
Temperature, C
-2 0 2 4
Depth, MX10 1.
0 10 20 30 40 50 60 70 80
Ref 64
Time = 86z9°°°26
Sta. e05
Beaufort
71.27 N
149.96 W

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E06	65	17 OCT 86	0155	7121.70N	149 56.20W	1421 M

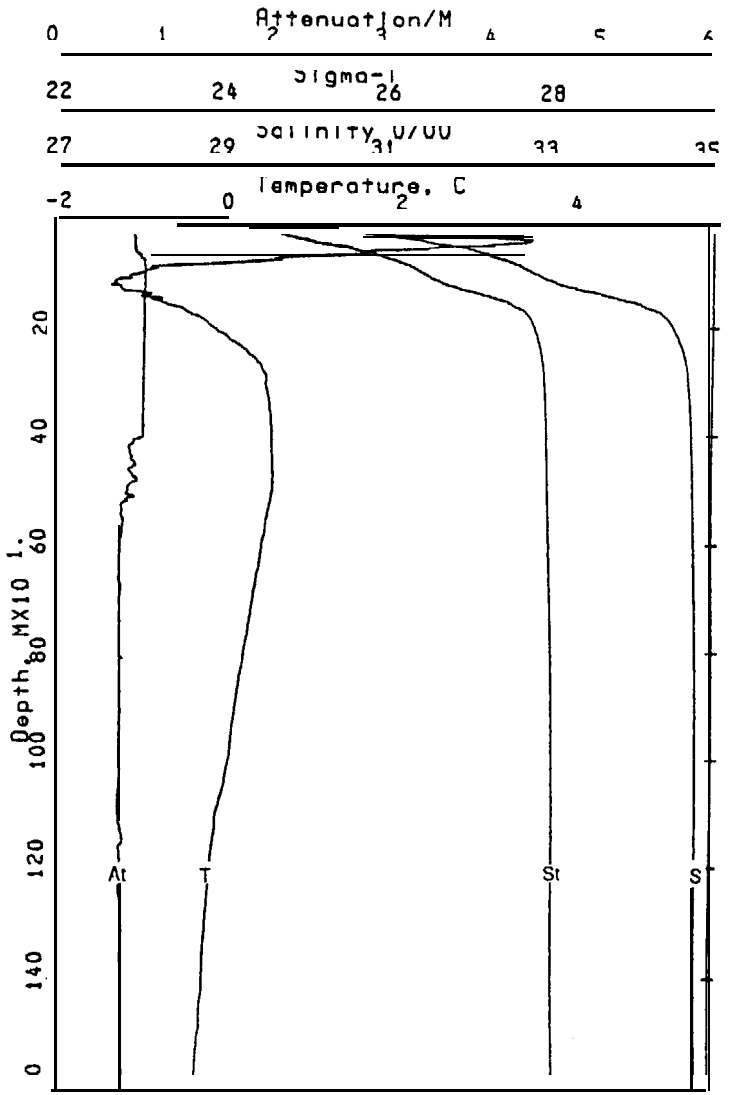
PRESS db	TEMP °c	SAL	SIGMA-T	O_2 ml l^{-1}	SiO_4 µm l^{-1}	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
1.2	-1.324	29.516	23.717	8.20	2.89	0.59	0.05	0.02	0.53		512	0.61	.8
3,6	-1.305	29.511	23.713	8.32	1.60	0.53	0.04	0.02	0.21	0,6995	300	0.61	.1
8.7	-0.992	29.656	23.823	8.05	4.46	0.60	0.03	0.03	0.71		340	0.62	.0 .0
18.8	0.329	30.293	24.295	7.86	5.61	0.68	0.01	0.04	1.27		518	0.67	.1 .2
28.6	1.217*	30.699	24.576	7.69	6.77	0.78	0.00	0.04	1.51	0.6600	483	0.72	.1 .1
48.6	3.491	31.699	25.208	7.30	6.86	0.75	0.33	0.09	1.84			0.62	.5 .5
114.0	-1.458	33.244	26.744	6.65	31.23	1.55	13.47	0.08	0.47	0.6000	484	0.59	.6
498.6	0.391	34.858	27.970	6.80	8.22	0.75	12.43	0.06	0.00			0.61	
698.5	0.257	34.884	27.999	6.88	7.78	0.76	12.54	0.03	0.00			0.59	
999.0	-0.011	34.899	28.025	6.96	7.77	0.78	12.70	0.03	0.00			0.58	
1247.8	-0.174	34.909	28.042	6.96	8.71	0.81	12.87	0.03	0.18			0.63	
1423.3	-0.251	34.914	28,050	6.95	9.02	0.78	13.03	0.03	0.00	0.4545		0.69	



Ref. no. 65 Sta. e06 71.36 N
Time = 862900155 Beaufort 149.94 H

STATION	CAST	DATE	TIME	LATITUDE	LONGITUDE	BOTTOM DEPTH
E07	66	17 OCT 86	0506	71 25.30N	149 54.30W	1780 M

PRESS db	TEMP "c	SAL	SIGMA-T	O_2 ml l^{-1}	SIO_4 µm 1-*	PO_4 µm l^{-1}	NO_3 µm l^{-1}	NO_2 µm l^{-1}	NH_3 µm l^{-1}	SPM mg l^{-1}	PC µg l^{-1}	LT.AT m^{-1}	CHLR-A µg l^{-1}
4.5	-1.429	29.373	23.602	8.45	2.44	0.59	0.05	0.01	0.16			0,61	
18.6	1.359*	30.609	24.496	7.50	5.09	0.75	0.13	0.04	0.95			0.67	
48.5	2.048	32.071	25.623	7.73	6.36	0,88	0,60	0.05	1,47			0,62	
123.3	-1.352	33.327	26.809	6.56	16.22	1.14	13.22	0.04	0.00			0.60	
148.6	-0.793	34.002	27.337	6.46	24.80	1,47	13.94	0.09	0.00			0.62	
199.1	-0.271	34.582	27.783	6.42	13,78	0.91	12.97	0.03	0.00			0.57	
298.0	0.367	34.792	27.918	6.84	8.48	0.80	12.79	0.02	0.00			0.55	
499.2	0.435	34.866	27.973	6.93	8.16	0.80	12.81	0.02	0.00			0.57	
698.8	0.242	34.887	28.001	6.99	7.74	0.87	12.77	0.03	0,00			0.57	
999.3	-0.047	34.900	28.028	6.98	8.48	0.80	12.92	0.03	0.00			0.61	
1246.0	-0.245	34.912	28.048	6.93	9.54	0.80	13.06	0.03	0.00			0.63	
1578.9	-0.387	34.931	28.070	6.91	11.55	0.90	14.01	0.03	0.00			0.63	



Ref. ∞ 66 Sta e07 71.42 N
Time = 862900506 Beaufort 49.9 W