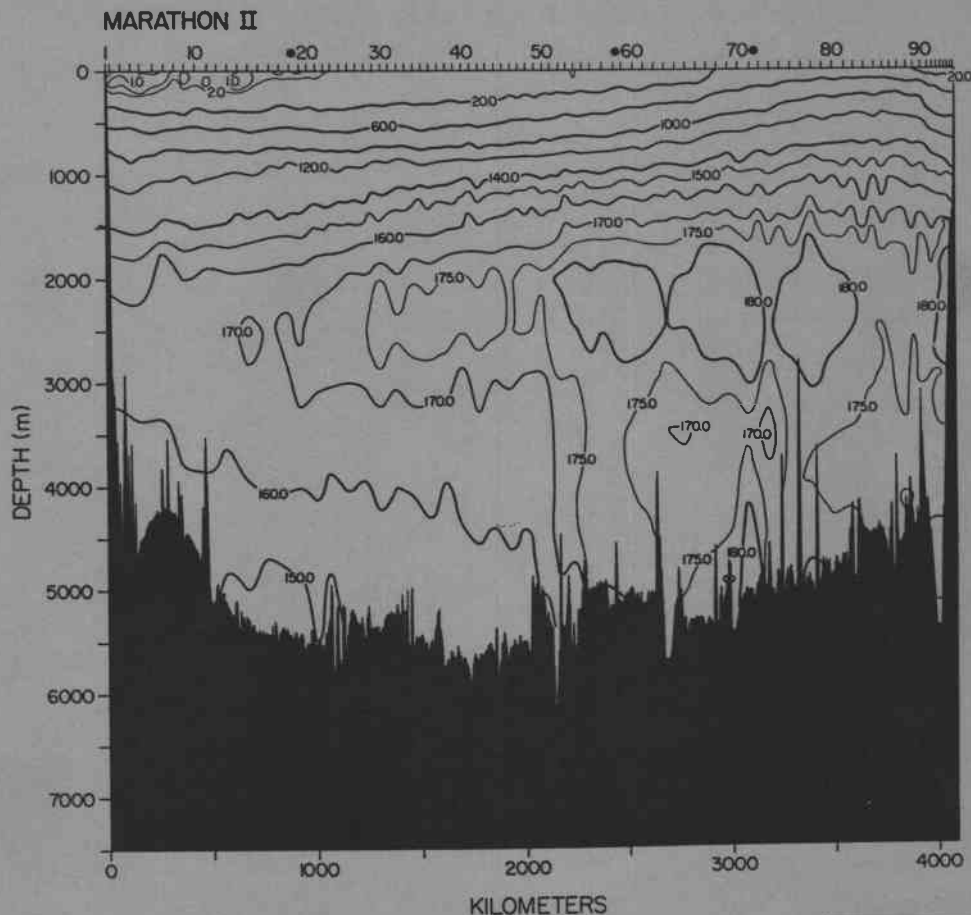


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PHYSICAL, CHEMICAL AND CTD
DATA
from the
MARATHON EXPEDITION
R/V THOMAS WASHINGTON 261
4 May-4 June 1984

by

Margie Martin
Lynne D. Talley
Roland A. de Szoeko

Data Report 131
Reference 87-15
May 1987

National Science Foundation OCE-8316930
Office of Naval Research N00014-84-C0218

OREGON STATE UNIVERSITY

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Hydrographic and CTD measurements were taken from ninety-eight stations between Honolulu, Hawaii and Kodiak, Alaska from 4 May to 4 June 1984 on the second leg of the Marathon Expedition. This report consists of the cruise track, vertical sections, listings of all discrete hydrographic data, a subsample of the CTD data, plots of temperature and salinity as a function of pressure, and plots of potential temperature as a function of salinity.		

OREGON STATE UNIVERSITY
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CORVALLIS, OREGON 97331

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CONTENTS

Introduction	3
Standard Procedures	3
Data	5
References	5
Personnel	6
Figures	7
Cruise Track	8
Vertical Sections	9
Station List	16
Tabulated Data and CTD Traces	18

INTRODUCTION

The hydrographic and CTD data presented in this report were collected aboard the RV *Thomas Washington* on the second leg of the Marathon Expedition, from Honolulu, Hawaii to Kodiak, Alaska (4 May - 4 June, 1984). The NODC identification number for the cruise is TW 261. The objective of the expedition was to provide information about the general circulation from the sea surface to the bottom in the northeastern Pacific with sufficient resolution along the cruise track to resolve the spacing of fronts and the scale of eddy variability. Except in boundary regimes at the beginning and end of the cruise where all stations extend from top to bottom, stations alternated between full water column coverage and coverage to 1500 meters. Station spacing between 28°N and 42°N was decreased in order to better sample the active frontal region. During the cruise, current meter moorings at 28°N and 42°N were retrieved and reset for P. Niiler by a separate group aboard the ship.

The hydrographic and CTD data presented in this report were collected and processed by the Physical and Chemical Oceanographic Data Facility (now part of the Shipboard Technical Support Group) at Scripps Institution of Oceanography. The hydrographic and 2-db CTD data have been sent to the National Oceanographic Data Center. Note that there is no station 72 on the cruise.

STANDARD PROCEDURES

Hydrographic (Rosette) Data

Each station consisted of a CTD lowering with a rosette carrying 24 Niskin bottles. Most stations included four reversing thermometer racks with one at the surface, one at the bottom, and the others at widely spaced intervals. Water samples were collected on the upcast and analyzed for salinity, oxygen, silicate, phosphate, nitrate, and nitrite. Samples for tritium analysis were collected for Dr. R. Fine and were processed by the Tritium Laboratory at the University of Miami.

Pressure and temperature for the discrete hydrographic tabulations were taken from the calibrated CTD data. The CTD pressure and temperature calibrations are discussed in the following section. Occasional discrepancies between the bottom depth listed in the header record and the maximum depth of the station resulted from incompatibility of the depth as read from the PDR and the actual depth of the cast.

Depths were calculated from CTD pressures (Saunders, 1981).

Salinity samples were analyzed at sea using one of two Guildline Autosol inductive salinometers. All salinity values are calculated from conductivity using the 1978 practical salinity scale (UNESCO, 1981) and are tabulated to three decimal places. Standard seawater batch P92 was used to standardize the salinometer at the beginning and end of each station; salinities are reported relative to P92 and have not been adjusted further. Mantyla (1987) compared various batches of standard seawater with batch P96; he found that the salinity of P92 is about 0.003‰/‰ less than that of P96. A section made in 1985 which intersected the Marathon II section and on which P96 was used as a standard showed salinities in the deep water which were indeed about 0.003‰/‰ higher than Marathon II, indicating that the laboratory comparisons hold *in situ* and that the precision of the autosol measurements is high. Bottle salinities were compared with CTD salinities to identify leaking bottles or salinometer malfunctions. Calibrated CTD salinities were used to replace bottle salinities in the event of problems and are indicated by the letter "D" in the hydrographic data tables. All salinities on station 34 were replaced by CTD salinities because of extensive drift in the autosalimeter standardization from the beginning to the end of that station's analysis; because the CTD salinities were calibrated using a large group of adjacent stations, the CTD salinities for station 34 are nearly as precise as those from bottle data.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedure outlined by Anderson (1971). A small number of oxygen values were discarded because contamination by rusty springs in the Niskin bottles resulted in low values. The bad springs caused greater problems with phosphate measurements. The precision of oxygen measurements is .01 ml/l and accuracy is 2%.

Silicate, phosphate, nitrate and nitrite were analyzed at sea using an autoanalyzer. The procedures used are similar to those described in Atlas *et al.* (1971). Artificial seawater was used as a standard for the first 19 stations; this resulted in high values for all nutrients and was corrected by reducing the absorbance slope by 6.25% for these stations. During the early part of the cruise, the springs in a large number of Niskin bottles rusted as a result of inadequate coating. Most rusty springs were replaced after station 21. Phosphate measurements were the most strongly affected; hence a large number of phosphate measurements have been deleted from stations 1 to 21. Two bottles continued to cause problems on subsequent stations; all phosphate values from these bottles have been deleted. Oxygen measurements were also affected, but apparently less severely; oxygens have been deleted from a smaller number of stations. Silicate, nitrate, nitrite, and salinity values were apparently unaffected by the rusted springs. Nitrate measurements on station 80 have been deleted because of problems with the cadmium column in the autoanalyzer. A portion of the silicate values on station 87 were adversely affected by a 2°C change in the laboratory temperature and have been deleted.

The precision of nutrient measurements is estimated to be less than .5% and accuracy is 2% to 3%.

Conductivity/Temperature/Depth (CTD) Data

A single Neil Brown Mark III CTD was used for all casts. The time series data were processed and calibrated by PACODF; the final product is a 2 db pressure series.

Pressure, temperature, and conductivity were sampled at 32 frames/second and recorded on audio tape. Output from the oxygen probe was updated at 8 frames/second and recorded with the other three parameters; it was not processed. The audio tapes were digitized following the cruise. There was no obvious increase in noise due to digitization following the cruise; however, gaps in the final data for stations 13 and 42 resulted from yoyo's made to compensate for the ends of audio tape reels.

Pressure, temperature and conductivity data were block-averaged in one second intervals. Values which were more than four standard deviations from the average were eliminated, the average was recalculated, and values more than 2 standard deviations from the average were discarded.

The CTD pressure transducer was calibrated in a temperature-controlled bath to the PACODF Ashcroft deadweight-tester pressure standard. Thermal response-time, thermal hysteresis and mechanical hysteresis were measured. The mechanical hysteresis loading curves were measured at 0°C and 23°C and at maximum loadings of 2225 and 8825 PSI. The transducer thermal response-time was derived from the pressure response to a thermal step change from 21°C to 0°C. There was no significant difference between pre- and post-cruise calibrations. Pressure calibrations were applied to the 1-second averages using a family of hysteresis curves based on the laboratory calculations. There was no significant drift in comparisons between CTD and thermometric pressures, based on reversing thermometers mounted on an average of 4 bottles on every cast. The mean difference between calibrated CTD pressures and thermometric pressures was 2.5 db.

The CTD platinum resistance thermometer was calibrated in a temperature-controlled bath to the PACODF Leeds and Northrup PRT temperature standard at 0°C, 10°C and 25°C. Calibrations were performed before and after the cruise: there was a .002 to .003° decrease in the CTD temperature reading. In addition to a constant second-order slope applied to all casts as a result of the PRT calibrations, an offset that was linear as a function of time was applied to the full cruise to compensate for the shift between pre- and post-cruise calibrations. The mean

difference between CTD temperatures and thermometer values was -0.0005°C .

After pressure and temperature calibration, the up and downcast CTD salinities differed by no more than .001 ‰ in the deep water, except on a few stations which had obvious offsets in conductivity.

Conductivity was calibrated using bottle salinities collected on the upcasts. Bottle sample conductivities were calculated from the sample salinities and from CTD pressures and temperatures. A conductivity slope correction was calculated as a third order least-squares fit to station number. After application of the slope correction, a conductivity offset for each cast was calculated and applied. All bottle samples were used for calibration with heavier weighting of samples below 1000 db. The mean difference between final CTD conductivities and sample conductivities was 0.00073 mhos. Additional offset corrections were made following comparisons of calibrated downcast salinities with bottle salinities in order to account for discontinuous shifts in the conductivity transducer response.

After processing the time series, a roll filter was applied to eliminate pressure reversals and a 2 db pressure series was constructed by block-averaging all 1-second values within each 2 db bin. The final data set contains .46% missing data or 727 of 168,549 data points. Most missing data are at single levels and result from block-averaging in one second intervals followed by pressure sequencing. Eleven of the 98 stations account for 423 missing values, or more than half. The only blocks of missing data are 3422-3438 db at station 13 and 4438-4484 db at station 42, both due to large yo-yo's occasioned by operator compensation for the end of audio tape recordings.

Seven upcasts were sent instead of downcasts because of major offsets or other instrument-related problems on the downcasts. The up-casts are stations 29, 50, 80, 82, 84, 85, and 89.

DATA

The data presentation consists of the cruise track, vertical sections, listings of all discrete hydrographic data, a subsample of the CTD data, plots of temperature and salinity as a function of pressure, and plots of potential temperature as a function of salinity.

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PERSONNEL

Ship's Captain

Johnson, Curtis D., *RV Thomas Washington*

Scientific personnel participating in collection of hydrographic/CTD data on *RV Thomas Washington*

deSzoeki, Roland, Professor (chief scientist), College of Oceanography, Oregon State University

Talley, Lynne D., Research Oceanographer (co-chief scientist), Ocean Research Division, Scripps Institution of Oceanography

Boaz, John, Marine Technician, STS, Scripps Institution of Oceanography

Field, Timothy J., Marine Technician, PACODF, Scripps Institution of Oceanography

Hester, Arthur W., Staff Research Associate, PACODF, Scripps Institution of Oceanography

Martin, Margie, Staff Research Associate, Marine Life Research Group, Scripps Institution of Oceanography

Mattson, Carl W., Electronics Technician, PACODF, Scripps Institution of Oceanography

Moe, Ronald, Programmer, Shipboard Computer Group, Scripps Institution of Oceanography

Muus, David A., Staff Research Associate, PACODF, Scripps Institution of Oceanography

Paduan, Jeffrey, Graduate Student, College of Oceanography, Oregon State University

Wenzel, Jan, Graduate Student, University of Hawaii

Additional personnel involved in data processing

Beaupre, Marie-Claude C., Staff Research Associate, PACODF, Scripps Institution of Oceanography

Delahoyde, Frank M., Programmer/Analyst, PACODF, Scripps Institution of Oceanography

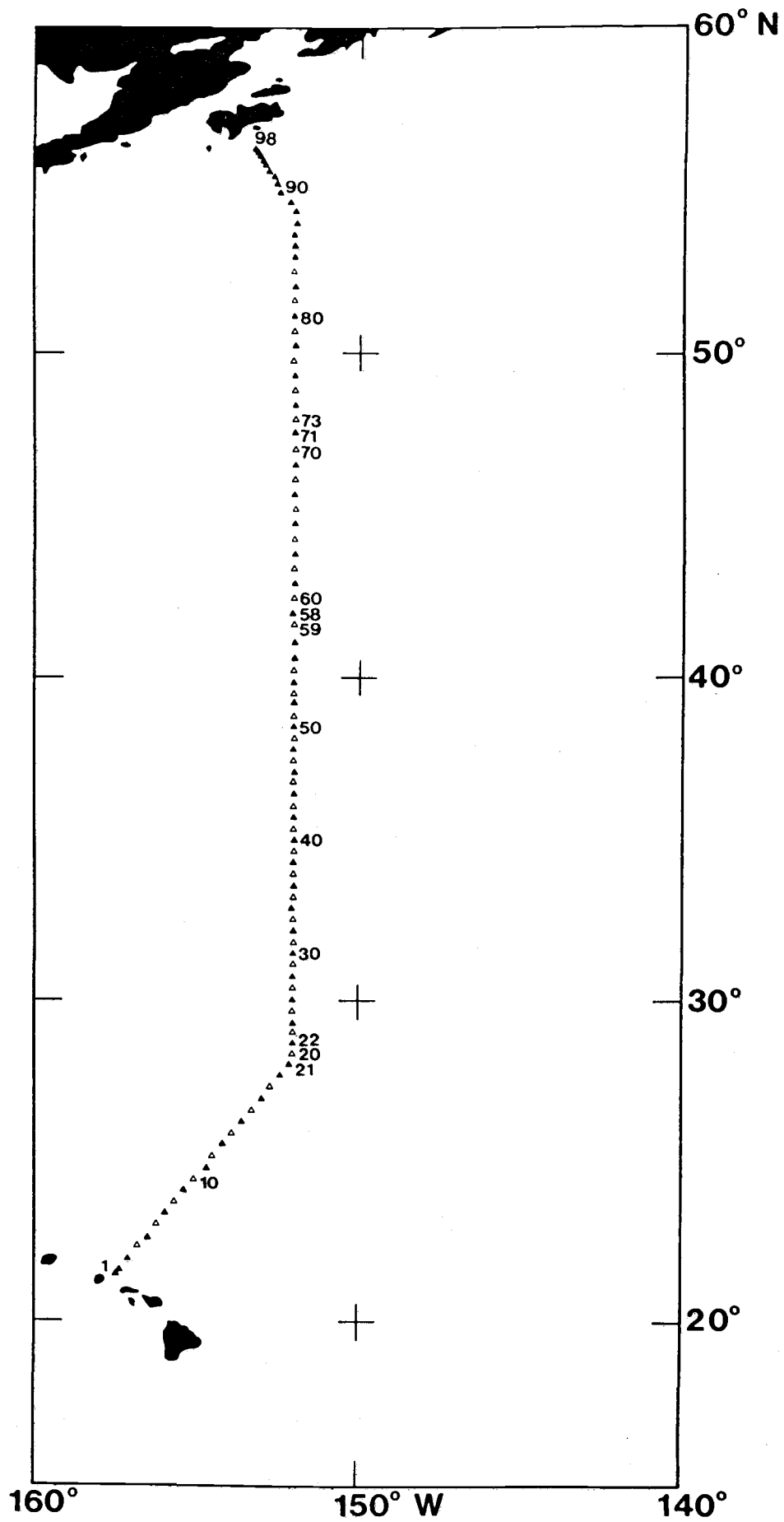
Johnson, Mary C., Staff Research Associate, PACODF, Scripps Institution of Oceanography

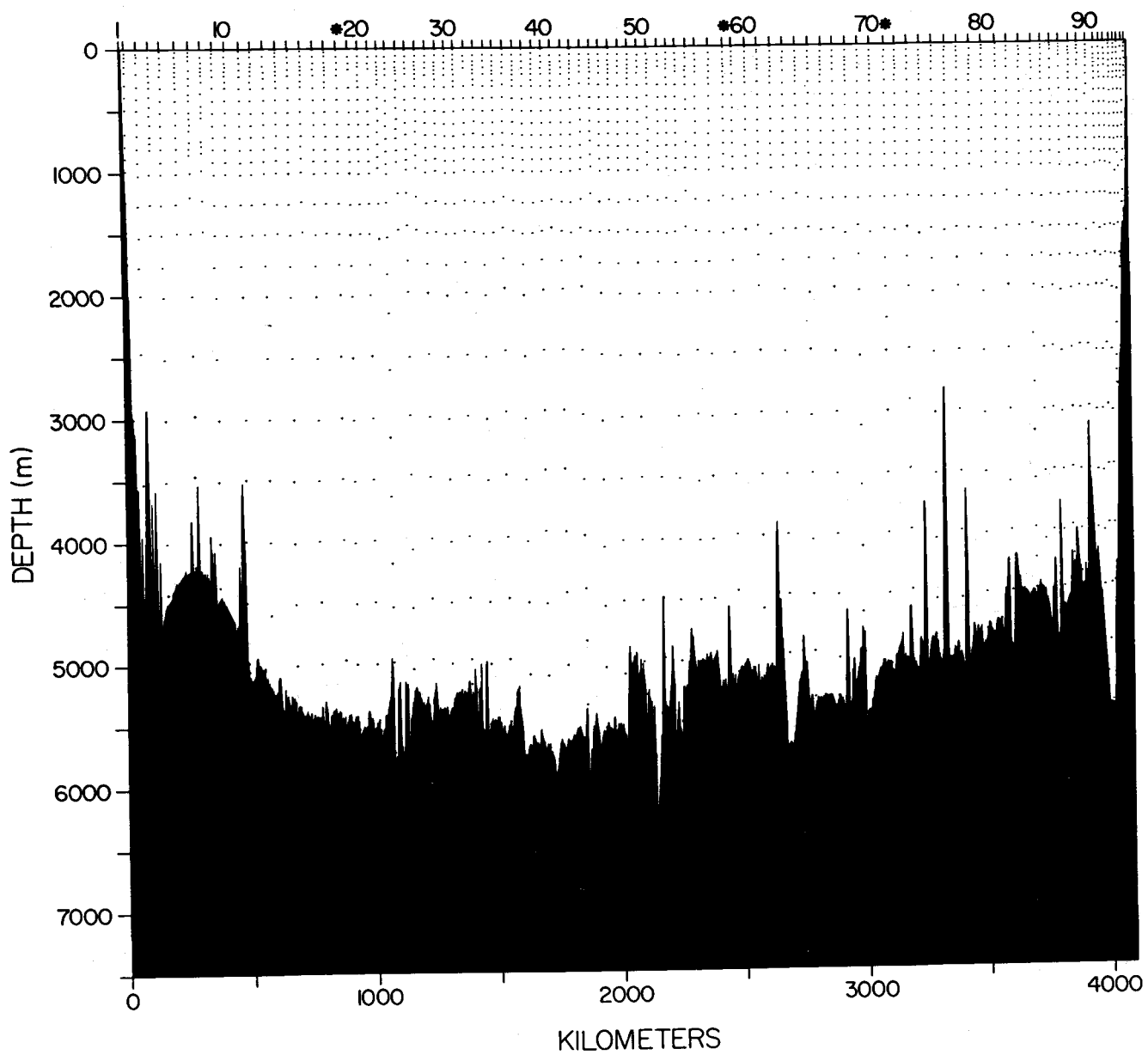
Sweet, Paul, Staff Research Associate, PACODF, Scripps Institution of Oceanography

Wells, James A., Marine Technician, PACODF, Scripps Institution of Oceanography

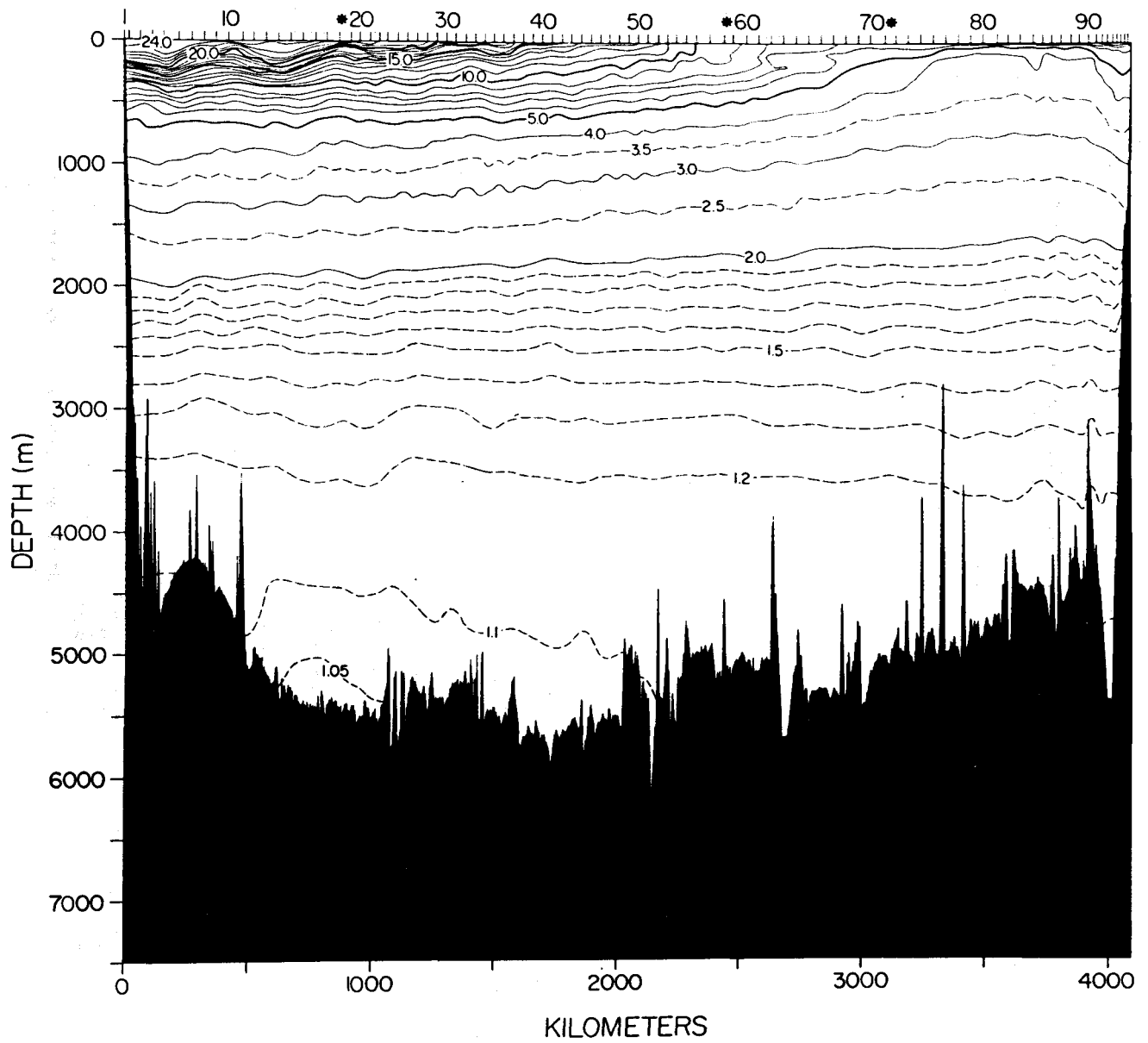
FIGURES

- Figure 1. Station positions for the Marathon II section on the R/V *Thomas Washington*, May 4 - June 4, 1984.
- Figure 2. Bottle positions. Asterisks indicate irregularities in station numbering.
- Figure 3. Potential temperature section.
- Figure 4. Salinity section.
- Figure 5. Oxygen section.
- Figure 6. Silicate section.
- Figure 7. Phosphate section.
- Figure 8. Nitrate section.

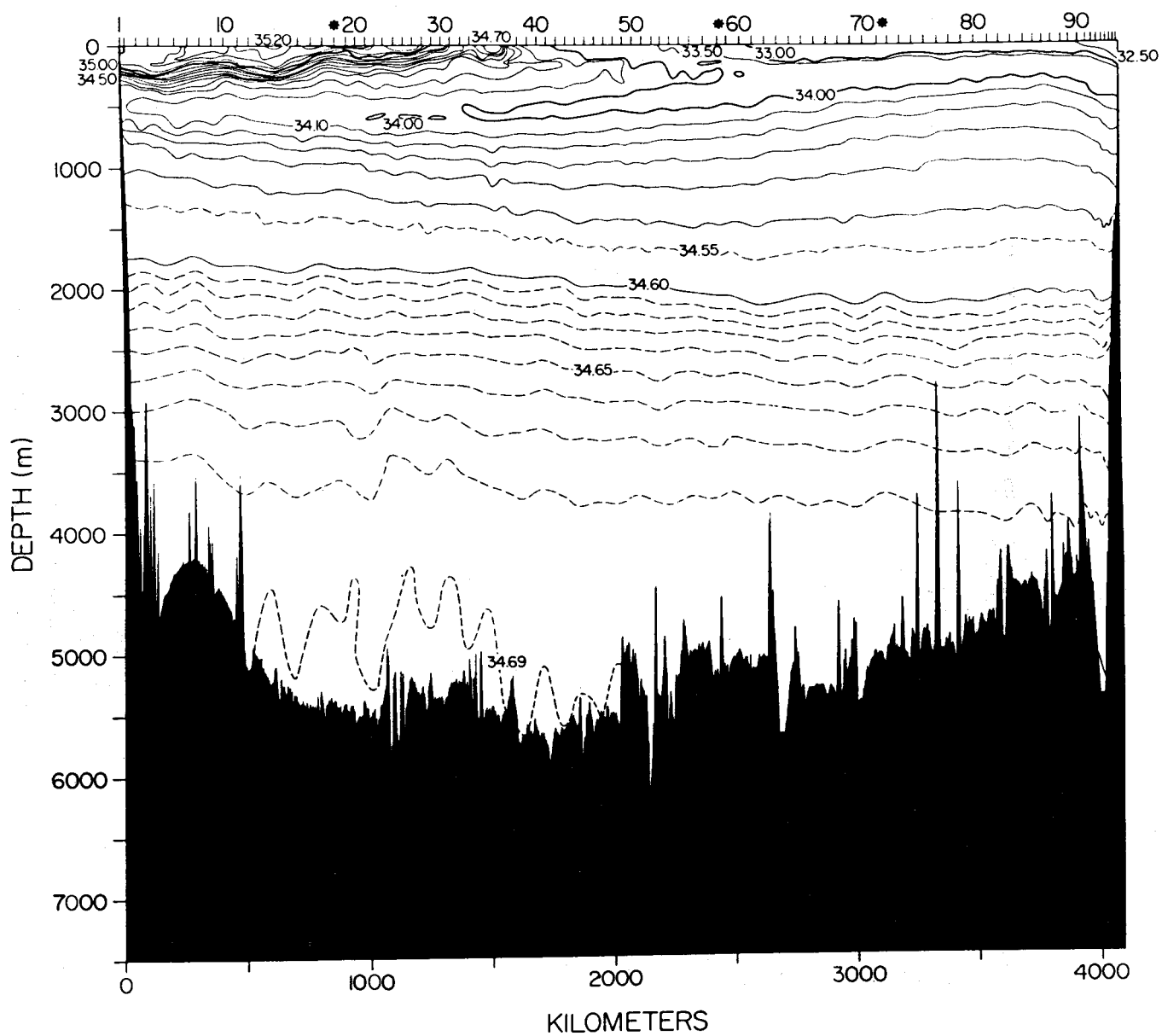




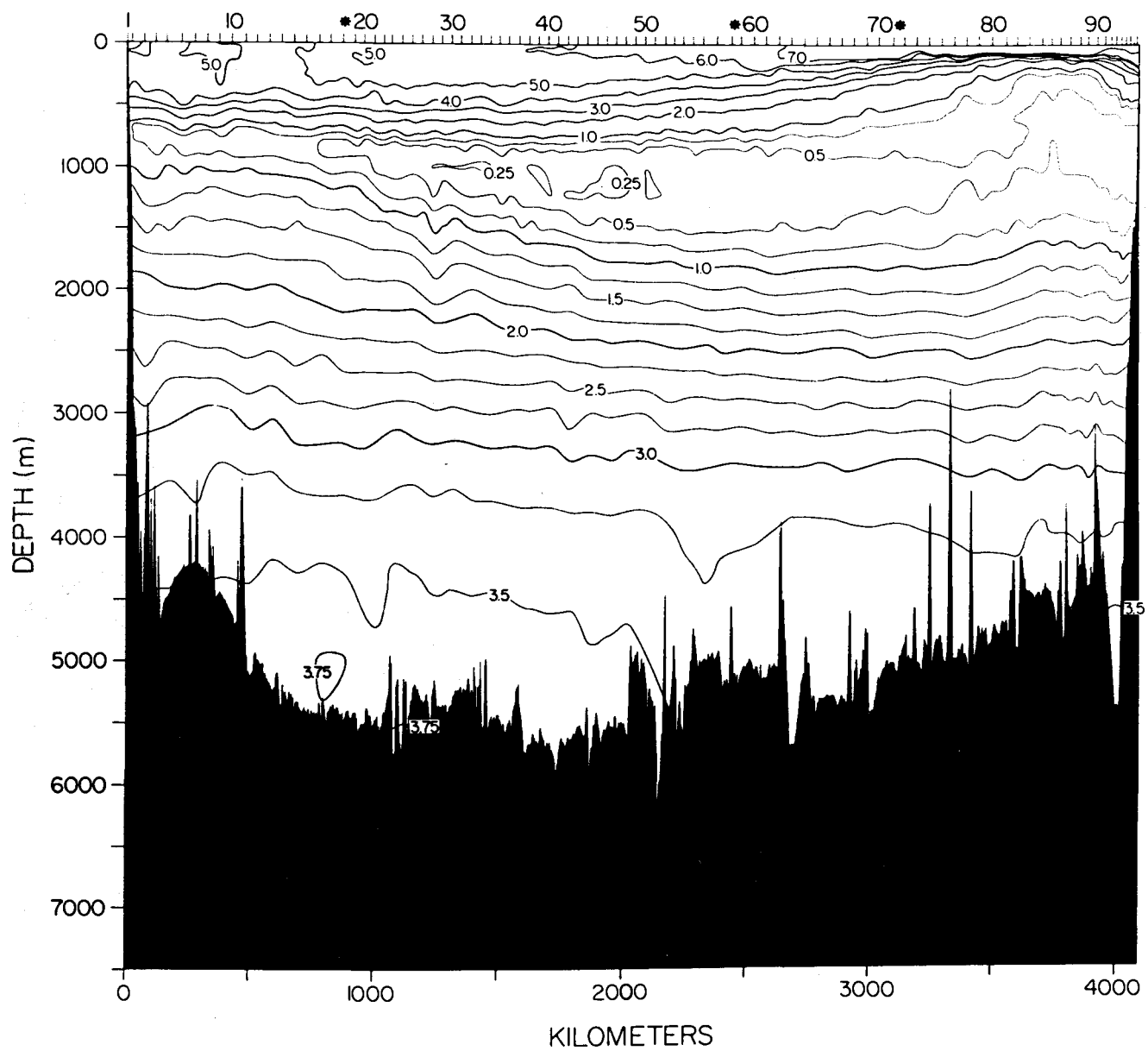
MARATHON II θ (°C)



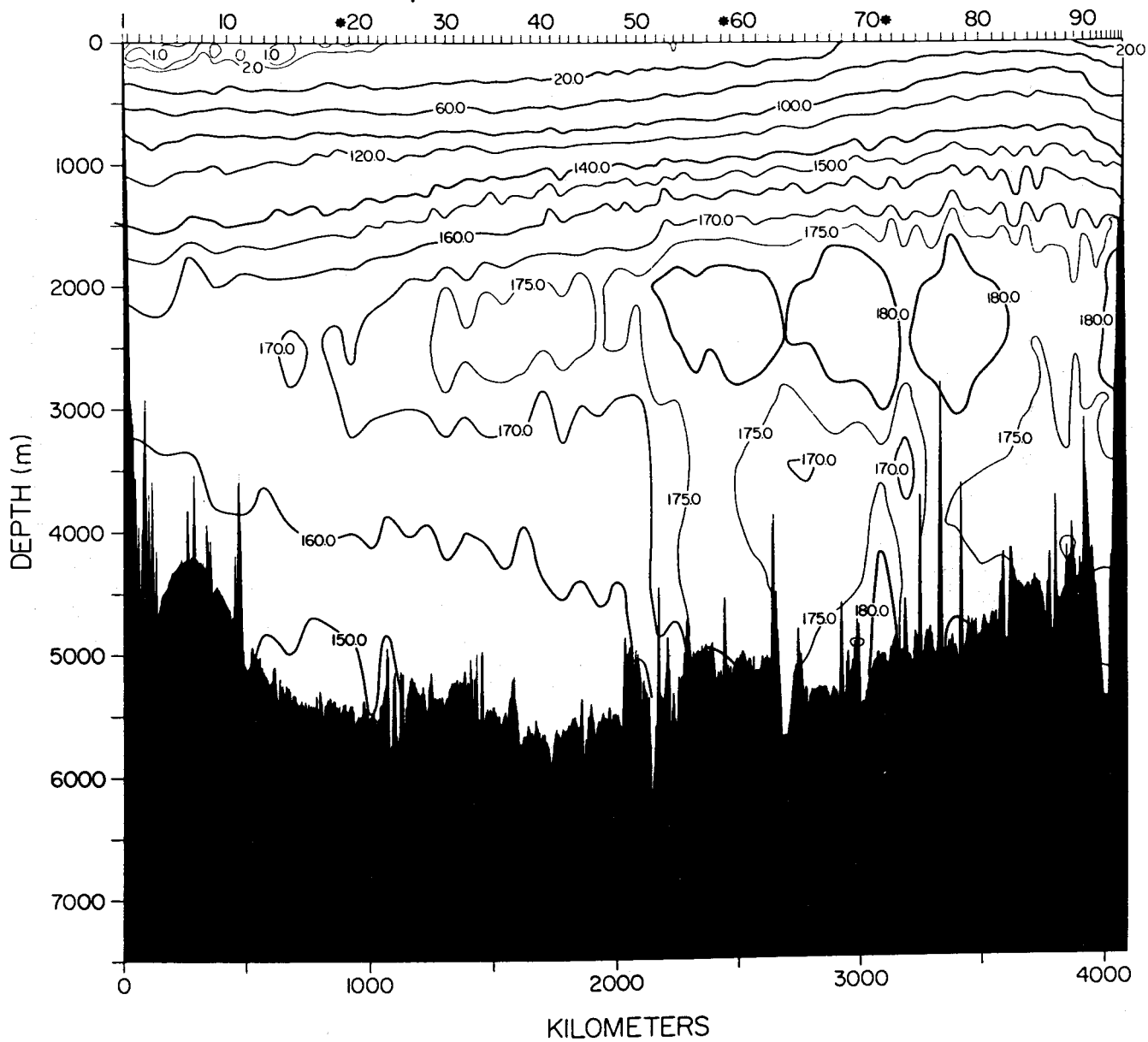
MARATHON II SALINITY



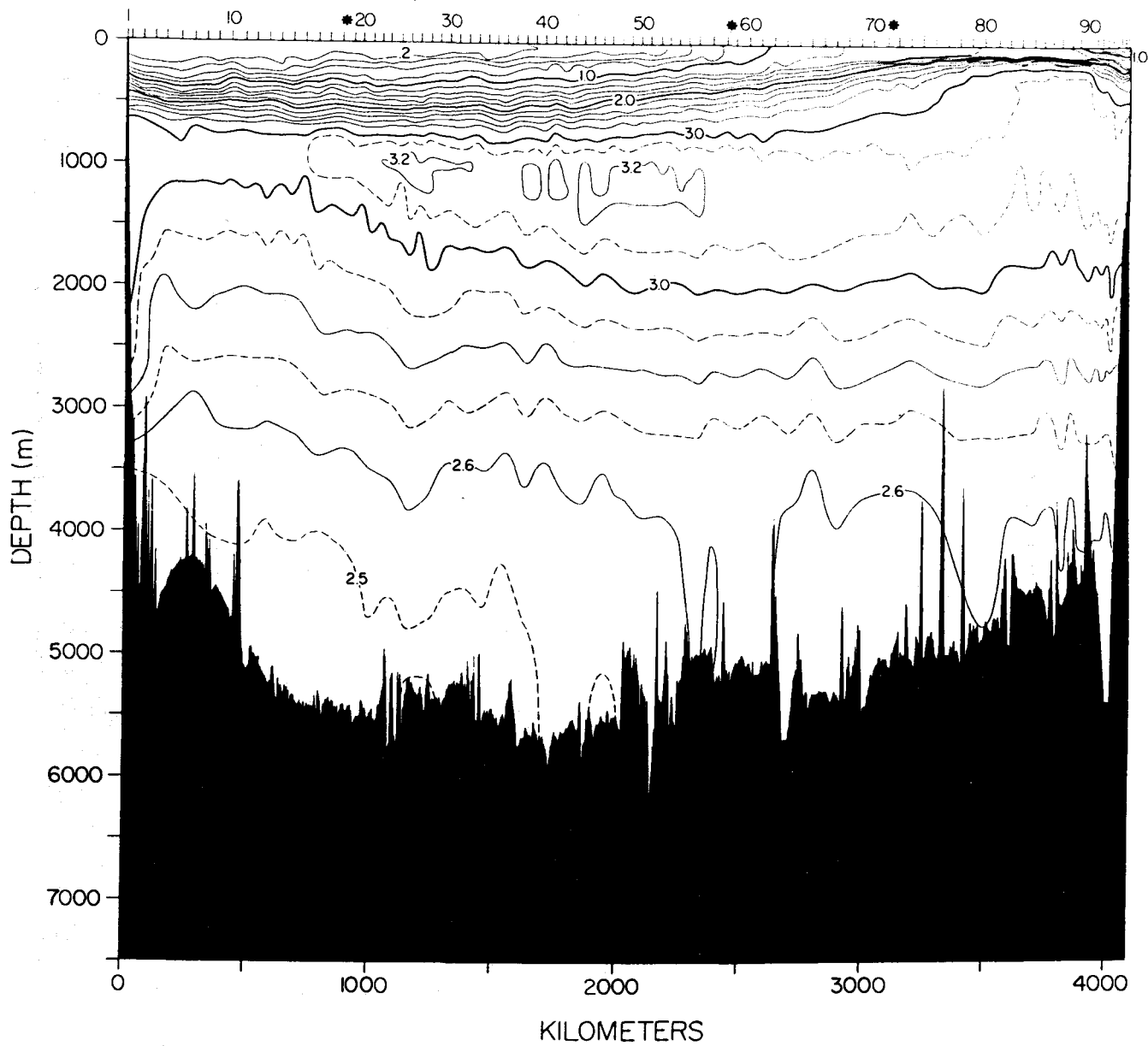
MARATHON II O₂ (ml/liter)



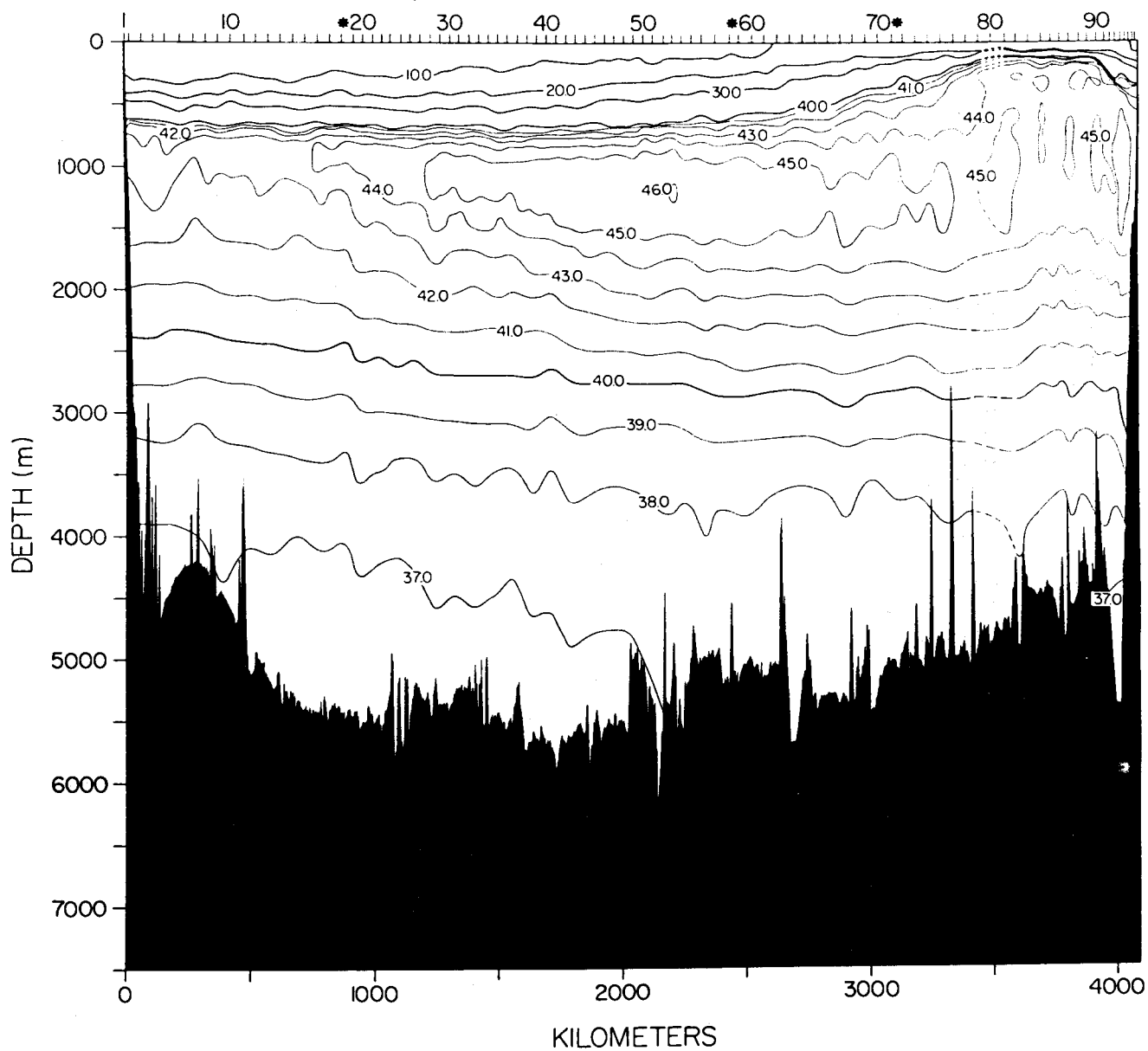
MARATHON II SiO_3 ($\mu\text{moles/liter}$)



MARATHON II PO₄ (μmoles/liter)



MARATHON II NO₃ (μ moles/liter)



R/V THOMAS WASHINGTON
MARATHON LEG 2
May 5, 1984 to June 4, 1984

Station #	Date GMT	Time GMT	Latitude	Longitude	Depth M	Number of Samples
1	05/05/84	736	21 28.1 N	157 28.4 W	746	11
2	05/05/84	1342	21 35.9 N	157 21.1 W	3000	18
3	05/05/84	2054	21 57.2 N	157 4.5 W		18
4	05/06/84	724	22 18.0 N	156 48.0 W	3905	16
5	05/06/84	1330	22 30.5 N	156 26.0 W	4439	22
6	05/06/84	1942	23 2.5 N	156 18.1 W		19
7	05/07/84	130	23 23.5 N	155 55.7 W	4194	23
8	05/07/84	818	23 45.0 N	155 38.4 W	4340	16
9	05/07/84	1436	24 6.0 N	155 21.0 W	4364	23
10	05/07/84	2042	24 28.0 N	155 3.6 W	3128	17
11	05/08/84	306	24 48.3 N	154 37.8 W	5144	23
12	05/08/84	800	25 11.0 N	154 28.6 W	4990	17
13	05/08/84	1500	25 32.5 N	154 11.0 W	5266	23
14	05/08/84	2042	25 54.0 N	153 53.4 W	5400	18
15	05/09/84	300	26 15.5 N	153 35.7 W	5382	24
16	05/09/84	854	26 36.4 N	153 16.4 W	5322	17
17	05/09/84	1454	26 59.2 N	152 57.7 W	5493	24
18	05/09/84	2054	27 20.0 N	152 41.9 W	5379	18
19	05/10/84	242	27 41.6 N	152 23.6 W	5513	23
20	05/10/84	1024	28 21.3 N	152 0.4 W	5482	17
21	05/11/84	224	28 1.9 N	152 6.0 W	5544	23
22	05/11/84	942	28 42.5 N	152 0.3 W	5602	24
23	05/12/84	1312	29 2.8 N	152 0.1 W	5611	17
24	05/12/84	2036	29 21.3 N	151 59.8 W	5363	24
25	05/13/84	324	29 43.8 N	152 0.8 W	5586	17
26	05/13/84	918	30 4.6 N	152 0.8 W	5317	24
27	05/13/84	1524	30 26.4 N	152 0.3 W	5312	17
28	05/13/84	2124	30 47.5 N	152 0.0 W	5435	24
29	05/14/84	524	31 8.9 N	152 0.0 W	5420	17
30	05/14/84	1112	31 29.8 N	152 0.7 W	5458	24
31	05/14/84	1718	31 50.3 N	151 59.2 W	5219	17
32	05/14/84	2306	32 12.3 N	152 0.4 W	5293	23
33	05/15/84	530	32 32.8 N	152 0.6 W	5229	17
34	05/15/84	1212	32 54.3 N	152 2.7 W	5503	24
35	05/15/84	1854	33 14.4 N	152 0.6 W	5456	17
36	05/16/84	124	33 35.2 N	151 59.6 W	5461	24
37	05/16/84	736	33 56.5 N	151 59.8 W	5015	17
38	05/16/84	1418	34 18.4 N	152 0.1 W	5687	24
39	05/16/84	2048	34 39.3 N	151 59.8 W	5663	17
40	05/17/84	324	35 0.0 N	151 59.2 W	5722	24
41	05/17/84	942	35 20.7 N	151 59.5 W	5798	17
42	05/17/84	1630	35 42.6 N	151 59.9 W	5611	24
43	05/17/84	2254	36 3.2 N	151 59.8 W	5529	17
44	05/18/84	542	36 24.8 N	151 59.5 W	5374	24
45	05/18/84	1600	36 46.2 N	151 59.9 W	5528	17
46	05/18/84	2224	37 6.5 N	151 58.8 W	5539	24
47	05/19/84	436	37 27.1 N	152 0.7 W	5565	17
48	05/19/84	1036	37 48.0 N	152 0.4 W	5886	24
49	05/19/84	1642	38 8.8 N	151 59.2 W	4936	17
50	05/19/84	2224	38 30.3 N	152 0.3 W	5255	24
51	05/19/84	430	38 50.9 N	151 59.1 W	5358	17
52	05/20/84	1042	39 14.3 N	151 59.2 W	5503	22
53	05/20/84	1724	39 33.3 N	152 0.4 W	5157	16
54	05/21/84	418	39 52.9 N	151 59.8 W	5606	24

55	05/21/84	1118	40 15.2 N	152 0.3 W	4885	14
56	05/22/84	736	40 37.4 N	151 59.0 W	4993	24
57	05/22/84	1424	41 6.8 N	151 59.5 W	4959	24
58	05/23/84	706	41 59.1 N	152 3.0 W	5103	24
59	05/23/84	1254	41 38.9 N	151 59.7 W	5090	17
60	05/24/84	948	42 27.6 N	151 59.5 W	5111	17
61	05/24/84	1624	42 55.2 N	151 58.8 W	5149	24
62	05/24/84	2348	43 23.0 N	152 0.4 W	4762	17
63	05/25/84	618	43 49.7 N	151 59.4 W	5689	24
64	05/25/84	1212	44 17.6 N	152 1.0 W	5096	17
65	05/25/84	1724	44 45.3 N	152 0.0 W	5305	24
66	05/25/84	2312	45 12.6 N	151 59.8 W	5298	17
67	05/26/84	518	45 39.9 N	152 0.6 W	5374	24
68	05/26/84	1118	46 7.3 N	151 59.9 W	5322	17
69	05/26/84	1730	46 34.7 N	151 59.0 W	4854	24
70	05/26/84	2348	47 2.3 N	151 59.6 W	5206	17
71	05/27/84	554	47 34.2 N	151 59.8 W	5009	24
73	05/27/84	1206	47 57.9 N	151 59.7 W	4849	17
74	05/27/84	1924	48 25.0 N	151 59.0 W	5019	24
75	05/28/84	254	48 52.2 N	152 0.1 W	4058	17
76	05/28/84	900	49 19.7 N	151 59.4 W	4996	24
77	05/28/84	1524	49 47.8 N	152 1.1 W	4897	17
78	05/28/84	2124	50 15.1 N	151 59.0 W	5110	24
79	05/29/84	418	50 42.4 N	152 0.7 W	4993	16
80	05/29/84	1012	51 9.7 N	152 0.0 W	4781	24
81	05/29/84	1648	51 40.9 N	151 59.4 W	4695	16
82	05/29/84	2324	52 4.7 N	151 58.2 W	4965	24
83	05/30/84	530	52 32.0 N	152 0.6 W	4467	17
84	05/30/84	1136	52 59.9 N	151 59.4 W	4448	24
85	05/30/84	1948	53 20.5 N	151 58.9 W	4531	24
86	05/31/84	212	53 41.1 N	151 58.9 W	4846	24
87	05/31/84	842	54 0.5 N	151 56.1 W	4572	24
88	05/31/84	1530	54 23.1 N	151 57.8 W	4156	24
89	05/31/84	2218	54 40.2 N	152 5.3 W	4316	24
90	06/01/84	518	54 57.4 N	152 23.9 W	4127	24
91	06/01/84	1218	55 13.9 N	152 31.5 W	4451	24
92	06/01/84	1900	55 25.6 N	152 38.1 W	5155	24
93	06/02/84	154	55 35.9 N	152 46.3 W	5377	24
94	06/02/84	806	55 46.6 N	152 53.0 W	4405	24
95	06/02/84	1336	55 56.3 N	152 57.6 W	2665	23
96	06/02/84	1824	56 4.0 N	153 2.7 W	1801	18
97	06/02/84	2242	56 12.0 N	153 7.7 W	1340	15
98	06/03/84	218	56 18.0 N	153 12.4 W	303	8

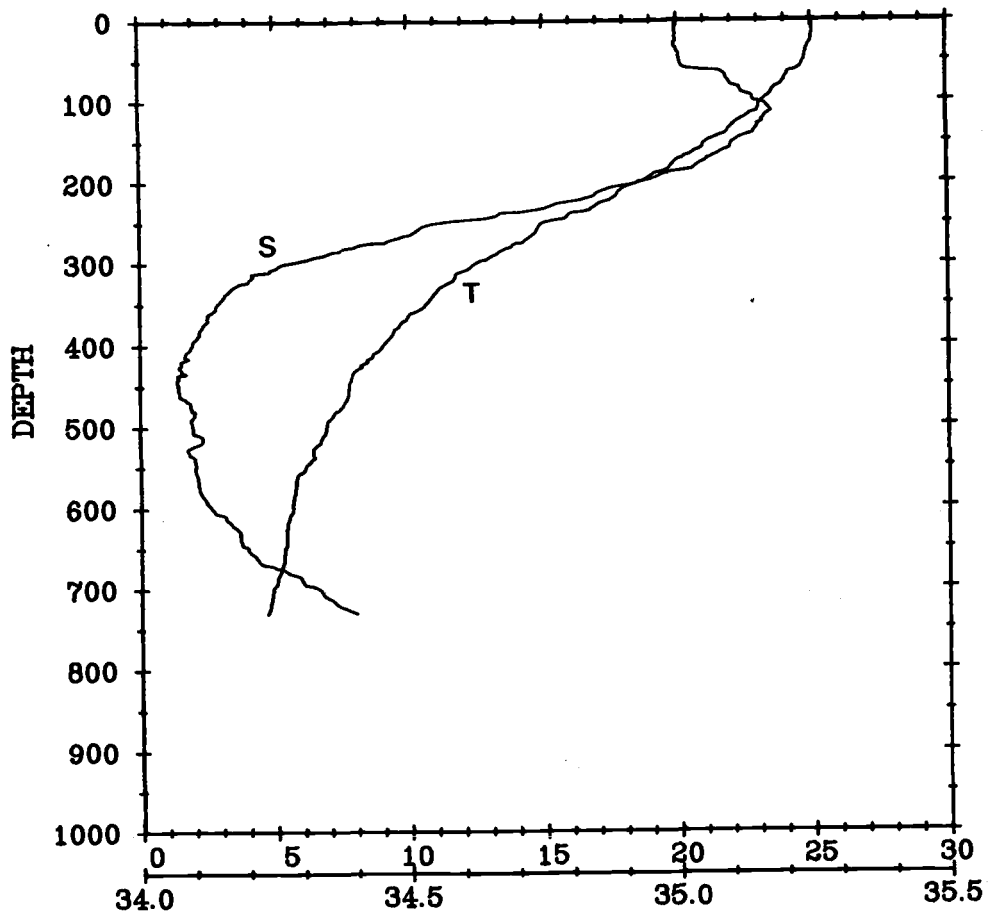
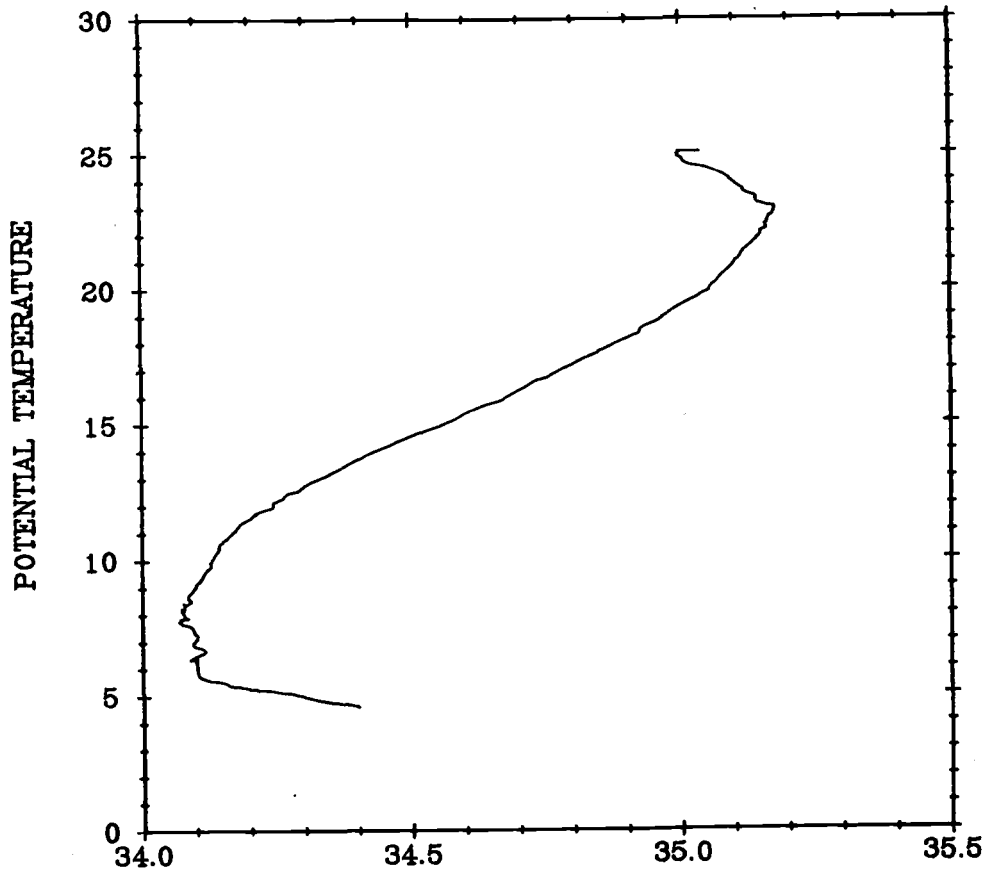
R/V THOMAS WASHINGTON MARATHON LEG II STATION 1

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
21 28.1N	157 28.4W	5/ 5/84	736	746	80	11	23.9	22.2	1017.6

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C		DEG C				CL/TON		M
0	25.065	35.005	25.065	23.327	31.635	39.587	454.264	0.000	0
20	25.037	34.997	25.033	23.331	31.639	39.593	454.749	0.091	19
40	24.839	35.002	24.830	23.396	31.710	39.668	449.370	0.181	39
60	24.472	35.039	24.459	23.536	31.859	39.826	436.856	0.270	59
80	23.838	35.105	23.821	23.775	32.115	40.097	414.795	0.355	79
100	23.227	35.149	23.206	23.989	32.344	40.341	395.250	0.436	99
150	21.192	35.111	21.163	24.535	32.949	41.001	344.891	0.621	149
200	18.518	34.924	18.483	25.095	33.593	41.725	292.931	0.781	199
250	15.202	34.574	15.164	25.608	34.224	42.465	244.695	0.915	249
300	12.547	34.279	12.507	25.932	34.651	42.989	214.119	1.030	298
350	10.614	34.146	10.572	26.187	34.986	43.399	190.013	1.131	348
400	9.059	34.098	9.015	26.410	35.276	43.752	168.816	1.220	398
450	7.767	34.071	7.722	26.585	35.510	44.040	151.976	1.301	447
500	6.929	34.097	6.882	26.724	35.687	44.253	138.844	1.373	497
600	5.601	34.128	5.550	26.919	35.946	44.572	120.149	1.503	596
700	4.946	34.313	4.890	27.143	36.200	44.854	99.324	1.613	695
736	4.631	34.399	4.573	27.247	36.318	44.986	89.470	1.647	731

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
47	24.886	35.001	4.85	102.4	2.1	0.19	0.0	0.00	24.876	23.381	31.694	39.651	47
97	23.195	35.173	4.81	99.1	1.6	0.20	0.0	0.00	23.175	24.016	32.372	40.370	97
147	21.066	35.105	4.49	88.7	1.8	0.28	1.4	0.08	21.038	24.565	32.982	41.038	147
195	18.371	34.927	4.45	83.5	3.4		3.7	0.01	18.337	25.134	33.637	41.773	195
295	12.175	34.248	4.33	71.4	11.8		12.0	0.08	12.136	25.979	34.713	43.065	296
395	9.530	34.119	4.37	68.0	22.5		18.6	0.03	9.485	26.350	35.195	43.652	396
497	7.121	34.101	2.58	38.0	52.2	2.25	30.9	0.01	7.073	26.701	35.655	44.213	499
594	5.637	34.127	1.28	18.2	75.6	2.84	38.8	0.00	5.586	26.914	35.938	44.563	597
690	4.961	34.316	0.77	10.8	93.3		41.9	0.03	4.905	27.144	36.199	44.853	694
705	4.844	34.339	0.80	11.2	95.9	3.09	42.3	0.01	4.787	27.176	36.236	44.895	709
730	4.623	34.401	0.85	11.8	100.0		42.5	0.04	4.565	27.249	36.321	44.989	734

MARATHON 2 STA. 1

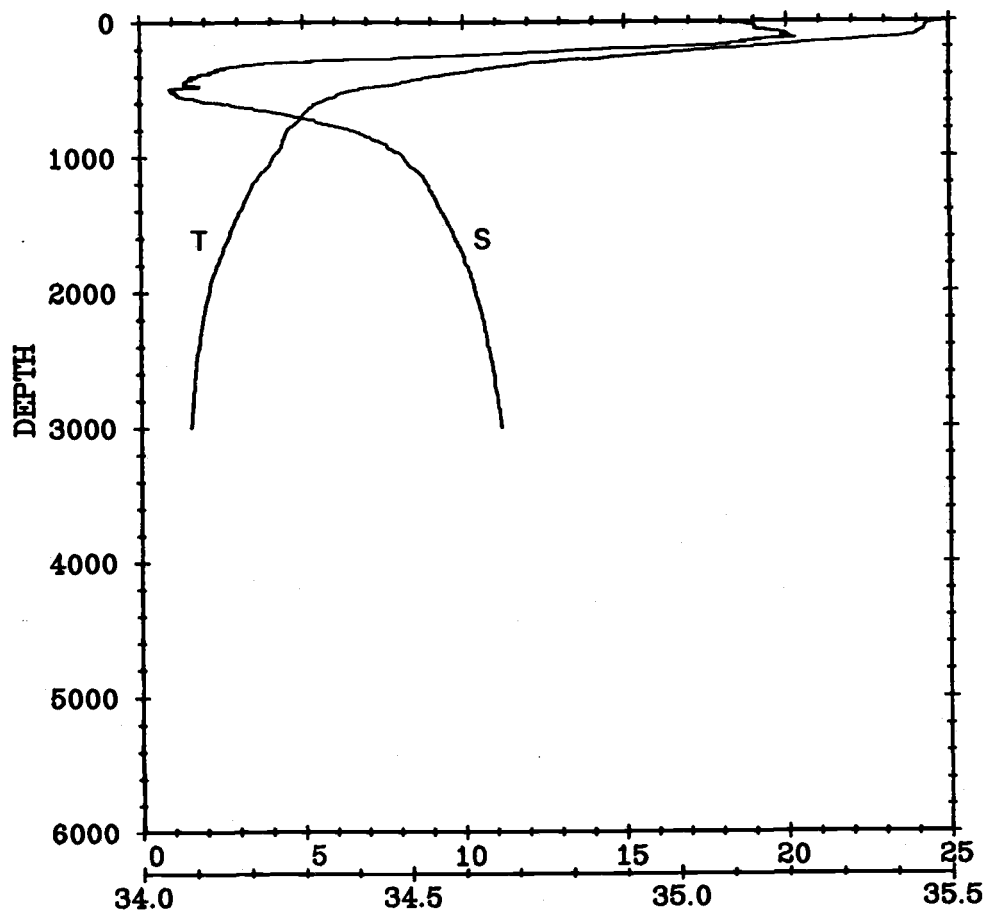
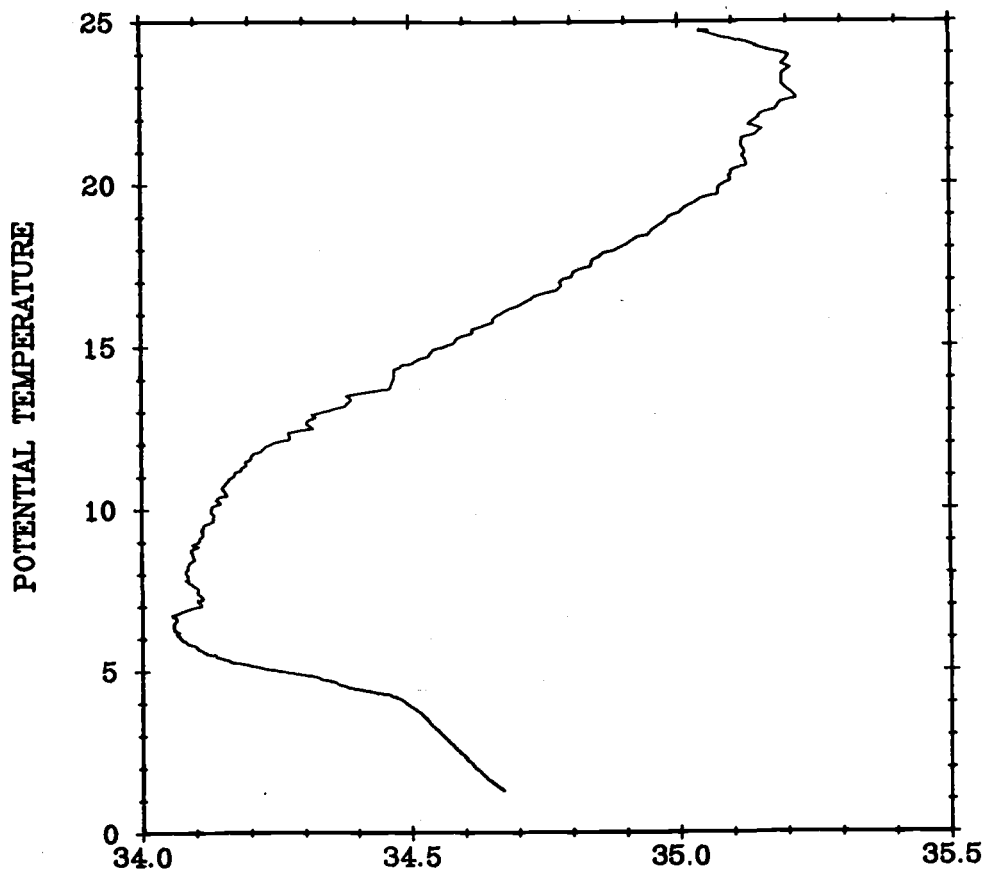


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
21 35.9N	157 21.1W	5/ 5/84	1342	3000	90	12	23.6	21.7	1015.2

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP	DEG C				CL/TON		M
DB	DEG C	DEG C						
0	24.616	35.063	23.507	31.825	39.798	437.101	0.000	0
20	24.346	35.121	23.633	31.958	39.927	425.901	0.086	19
40	24.259	35.140	24.251	32.675	39.973	422.767	0.171	39
60	24.214	35.146	24.201	33.694	39.995	421.770	0.256	59
80	24.060	35.179	24.043	33.766	40.074	415.730	0.339	79
100	23.914	35.199	23.893	32.825	40.141	410.869	0.422	99
150	21.357	35.131	21.328	24.505	40.962	347.773	0.612	149
200	18.348	34.918	18.313	25.133	41.773	289.291	0.771	199
250	15.422	34.604	15.383	25.583	42.423	247.210	0.905	249
300	12.490	34.289	12.450	25.951	43.012	212.306	1.020	298
350	10.667	34.152	10.625	26.182	43.390	190.486	1.121	348
400	9.268	34.109	9.224	26.385	43.709	171.333	1.211	398
450	8.168	34.084	8.122	26.536	43.956	156.967	1.293	447
500	6.822	34.066	6.776	26.714	44.254	139.659	1.367	497
600	5.540	34.129	5.490	26.927	44.586	119.298	1.497	596
700	4.992	34.277	4.935	27.109	44.817	102.562	1.608	695
800	4.548	34.383	4.485	27.244	45.083	90.282	1.704	795
900	4.356	34.448	4.286	27.317	45.165	84.090	1.791	894
1000	4.106	34.487	4.030	27.375	45.238	79.081	1.873	993
1100	3.842	34.511	3.759	27.422	45.325	74.971	1.950	1092
1200	3.492	34.532	3.404	27.474	45.376	70.013	2.022	1190
1300	3.289	34.545	3.195	27.504	45.423	67.360	2.091	1289
1400	3.106	34.557	3.005	27.531	45.477	64.971	2.157	1388
1500	2.895	34.571	2.778	27.563	45.519	61.935	2.221	1487
1600	2.719	34.582	2.606	27.587	45.565	59.728	2.282	1586
1700	2.533	34.594	2.414	27.613	45.599	57.162	2.340	1684
1800	2.389	34.601	2.264	27.631	45.642	55.423	2.396	1783
1900	2.212	34.613	2.081	27.655	45.668	52.873	2.450	1882
2000	2.108	34.620	1.970	27.670	45.693	51.533	2.503	1980
2100	2.011	34.627	1.866	27.683	45.716	50.244	2.554	2079
2200	1.922	34.634	1.770	27.696	45.735	49.021	2.603	2177
2300	1.846	34.639	1.686	27.707	45.749	48.077	2.652	2275
2400	1.796	34.643	1.628	27.714	45.768	47.509	2.700	2374
2500	1.722	34.649	1.547	27.725	45.792	46.465	2.747	2472
2600	1.682	34.653	1.499	27.732	45.802	45.983	2.793	2570
2700	1.644	34.657	1.452	27.738	45.813	45.512	2.839	2669
2800	1.609	34.661	1.409	27.745	44.672	45.065	2.884	2767
2900	1.579	34.665	1.370	27.751	44.224	44.672	2.929	2865
3000	1.546	34.669	1.328	27.757	44.179	44.224	2.973	2961
3038	1.540	34.670	1.319	27.758			2.990	3000

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
24	24.352	35.120D	4.95	103.6						24.347	23.631	31.956	39.925	24
53	24.203	35.146	4.99	104.2	1.9	0.16	0.0	0.00		24.192	23.697	32.025	39.998	53
79	23.998	35.192	5.01	104.3	1.0	0.13	0.0	0.00		23.981	23.794	32.128	40.105	79
129	22.501	35.187	4.74	96.1	0.8	0.18	0.2	0.13		22.475	24.227	32.602	40.619	129
180	20.327	35.089	4.53	88.2	1.4	0.31	1.8	0.03		20.293	24.753	33.193	41.270	180
281	13.340	34.360	4.52	76.5	8.5	0.84	9.8	0.00		13.300	25.837	34.524	42.832	282
380	9.494	34.110D								9.451	26.349	35.195	43.653	381
481	7.238	34.100	2.70	39.9	49.5	2.26	29.9	0.00		7.191	26.683	35.632	44.185	483
681	4.958	34.289	0.65	9.1	92.6	3.26	42.3	0.00		4.903	27.123	36.178	44.933	685
782	4.532	34.388	0.74	10.3	102.9		43.2	0.00		4.470	27.249	36.325	44.999	786
882	4.315	34.460	0.84	11.6	106.0		43.2	0.00		4.246	27.331	36.417	45.100	887
982	4.031	34.493	0.94	12.9	112.4		43.2	0.03		3.956	27.387	36.488	45.184	988
1232	3.314	34.542	1.34	18.0	127.5		42.8	0.00		3.224	27.499	36.637	45.368	1241
1481	2.834	34.574	1.54	20.5	139.2		42.4	0.01		2.728	27.569	36.734	45.489	1493
1733	2.453	34.599	1.83	24.1	148.8	3.14	41.8	0.00		2.331	27.624	36.809	45.584	1749
1989	2.128	34.618	2.11	27.6	155.6	3.07	41.0	0.00		1.989	27.667	36.870	45.663	2008
2499	1.729	34.650	2.51	32.4	167.5	2.95	39.8	0.01		1.551	27.725	36.953	45.768	2527
3001	1.540	34.670	2.86	36.7	164.3		38.6	0.02		1.318	27.758	36.999	45.825	3038

MARATHON 2 STA. 2

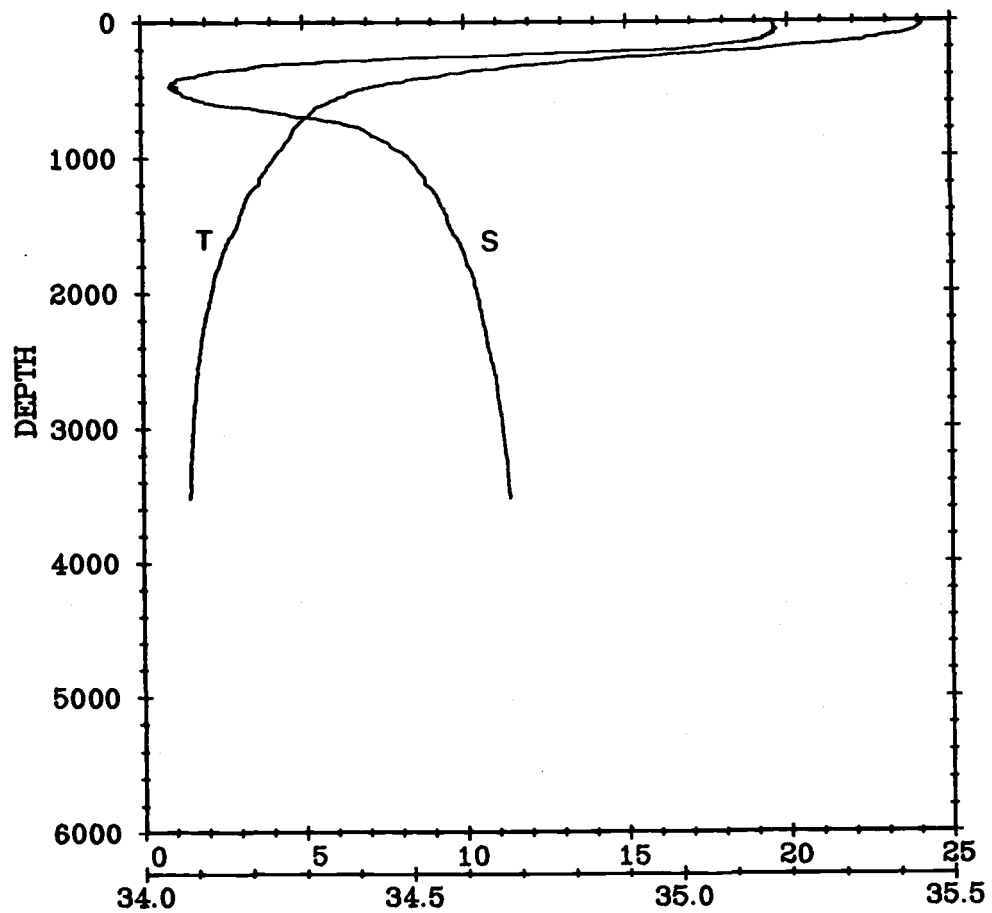
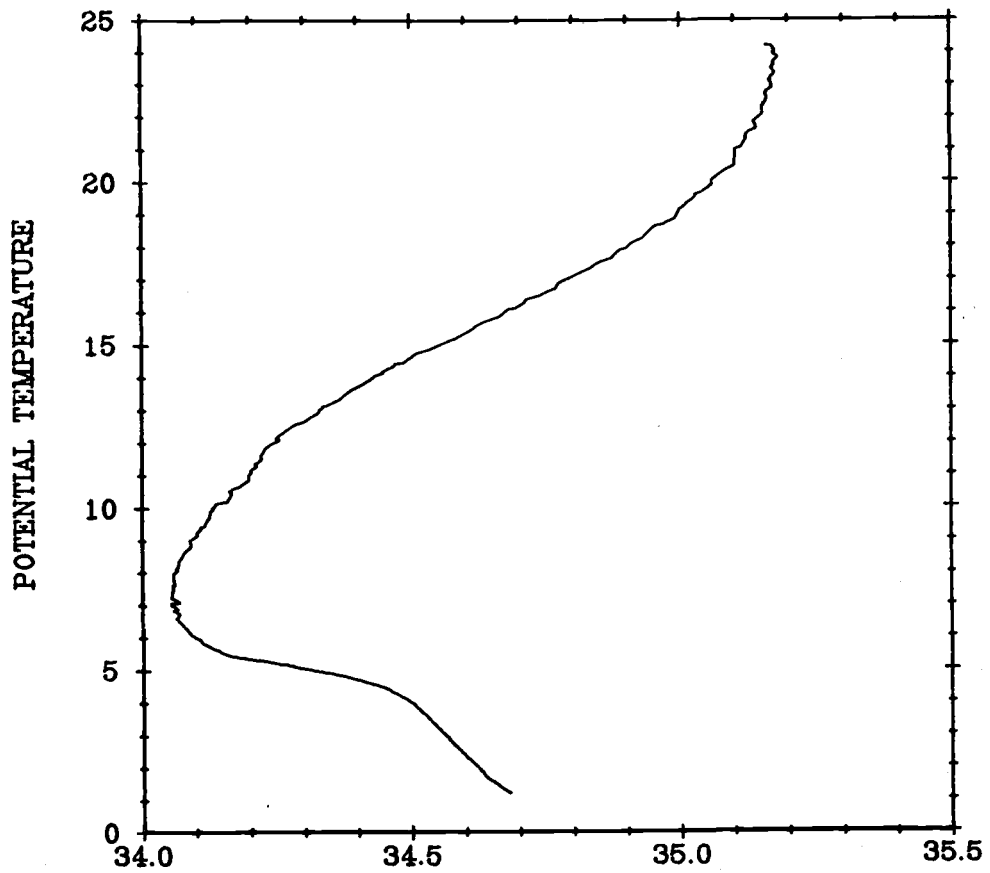


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
21 57.2N	157 4.5W	5/ 5/84	2054		100	12	25.0	22.8	1016.9

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	24.167	35.168	24.167	23.721	32.050	40.023	416.692	0.000	0
20	24.131	35.172	24.127	23.736	32.066	40.040	416.100	0.083	19
40	24.065	35.174	24.057	23.758	32.090	40.066	414.801	0.166	39
60	23.944	35.175	23.931	23.796	32.131	40.110	412.021	0.249	59
80	23.724	35.176	23.707	23.863	32.204	40.189	406.463	0.331	79
100	23.315	35.171	23.294	23.980	32.332	40.327	396.104	0.411	99
150	21.924	35.142	21.894	24.357	32.749	40.781	362.015	0.601	149
200	19.499	35.021	19.463	24.919	33.386	41.487	309.882	0.769	199
250	16.124	34.686	16.084	25.488	34.069	42.279	256.522	0.910	249
300	13.124	34.339	13.083	25.865	34.561	42.977	220.816	1.030	298
350	10.967	34.193	10.924	26.161	34.945	43.343	192.700	1.133	348
400	9.282	34.104	9.238	26.379	35.235	43.702	171.927	1.224	398
450	7.921	34.061	7.876	26.555	35.473	43.997	154.982	1.306	447
500	6.829	34.061	6.782	26.709	35.677	44.249	140.126	1.380	497
600	5.797	34.122	5.745	26.891	35.908	44.525	123.111	1.511	596
700	5.166	34.279	5.109	27.091	36.137	44.782	104.579	1.625	695
800	4.699	34.412	4.635	27.250	36.318	44.983	89.975	1.722	795
900	4.458	34.457	4.387	27.313	36.393	45.069	84.668	1.810	894
1000	4.133	34.494	4.056	27.378	36.474	45.165	78.890	1.891	993
1100	3.847	34.515	3.764	27.424	36.535	45.240	74.736	1.968	1092
1200	3.638	34.529	3.549	27.457	36.579	45.294	71.984	2.042	1191
1300	3.282	34.550	3.188	27.509	36.649	45.382	66.908	2.111	1289
1400	3.105	34.561	3.004	27.534	36.684	45.426	64.665	2.177	1389
1500	2.956	34.569	2.849	27.555	36.713	45.462	62.932	2.241	1487
1600	2.736	34.582	2.623	27.585	36.755	45.516	59.932	2.302	1586
1700	2.525	34.595	2.406	27.614	36.795	45.567	56.993	2.361	1684
1800	2.398	34.604	2.273	27.632	36.821	45.599	55.312	2.417	1783
1900	2.237	34.614	2.105	27.654	36.852	45.638	53.103	2.471	1882
2000	2.154	34.621	2.015	27.667	36.869	45.661	52.025	2.523	1980
2100	2.061	34.626	1.915	27.679	36.887	45.683	50.938	2.575	2079
2200	1.957	34.632	1.804	27.692	36.906	45.708	49.606	2.625	2177
2300	1.864	34.637	1.704	27.704	36.923	45.730	48.450	2.674	2275
2400	1.815	34.641	1.647	27.711	36.934	45.744	47.898	2.722	2374
2500	1.755	34.646	1.579	27.720	36.947	45.760	47.110	2.770	2472
2600	1.692	34.652	1.508	27.730	36.960	45.777	46.187	2.817	2570
2700	1.652	34.657	1.460	27.738	36.971	45.790	45.618	2.863	2669
2800	1.633	34.659	1.432	27.741	36.976	45.797	45.534	2.908	2767
2900	1.583	34.664	1.374	27.750	36.987	45.811	44.799	2.953	2865
3000	1.560	34.667	1.342	27.754	36.993	45.819	44.562	2.998	2963
3100	1.535	34.670	1.308	27.759	37.000	45.828	44.287	3.042	3061
3200	1.511	34.673	1.275	27.764	37.007	45.836	44.015	3.087	3159
3300	1.480	34.677	1.234	27.770	37.015	45.846	43.560	3.130	3257
3400	1.476	34.678	1.221	27.772	37.017	45.849	43.701	3.174	3355
3500	1.466	34.680	1.201	27.775	37.022	45.854	43.678	3.218	3453
3572	1.454	34.681	1.182	27.777	37.025	45.859	43.618	3.249	3523

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
29	24.007	35.173	5.07	105.6	1.5	0.16	0.0	0.00	24.001	23.774	32.107	40.084	29
48	23.993	35.172	5.14	107.0	0.8	0.16	0.0	0.00	23.983	23.778	32.112	40.090	48
96	23.542	35.176	5.04	104.1	0.6	0.15	0.0	0.00	23.522	23.917	32.263	40.253	96
187	20.235	35.069	4.43	86.1	1.8	2.1	0.02	20.200	24.763	33.206	41.285	187	
290	14.135	34.442	4.47	76.9	6.9	0.72	8.4	0.01	14.093	25.737	34.393	42.672	290
393	9.727	34.120	4.33	67.7	22.0	1.35	18.5	0.00	9.682	26.318	35.155	43.604	393
489	7.213	34.062	2.73	40.3	47.0	2.16	30.0	0.00	7.166	26.657	35.607	44.162	489
594	5.722	34.132	1.27	18.1	73.7	2.80	38.4	0.00	5.671	26.908	35.928	44.549	594
697	5.073	34.304	0.61	8.6	91.9	3.10	42.1	0.00	5.016	27.122	36.172	44.820	697
802	4.677	34.418	0.72	10.0	99.7	42.9	0.00	4.613	27.258	36.326	44.992	802	
910	4.384	34.466	0.83	11.5	105.5	43.1	0.01	4.312	27.328	36.411	45.091	910	
1016	4.030	34.502	0.90	12.3	112.3	43.2	0.03	3.952	27.395	36.496	45.192	1016	
1263	3.441	34.541	1.17	15.8	126.9	43.1	0.00	3.347	27.486	36.618	45.343	1263	
1524	2.865	34.575	1.47	19.6	139.5	42.4	0.02	2.755	27.568	36.731	45.485	1524	
1773	2.422	34.603	1.83	24.1	149.0	2.94	41.5	0.00	2.297	27.629	36.816	45.594	1773
1992	2.133	34.624	2.13	27.8	155.4	2.86	40.9	0.00	1.993	27.671	36.875	45.667	1992
2463	1.753	34.647	2.39	30.9	164.8	39.9	0.02	1.578	27.721	36.947	45.761	2463	
3522	1.452	34.683	3.19	40.8	158.9	37.4	0.03	1.179	27.778	37.026	45.860	3522	

MARATHON 2 STA. 3

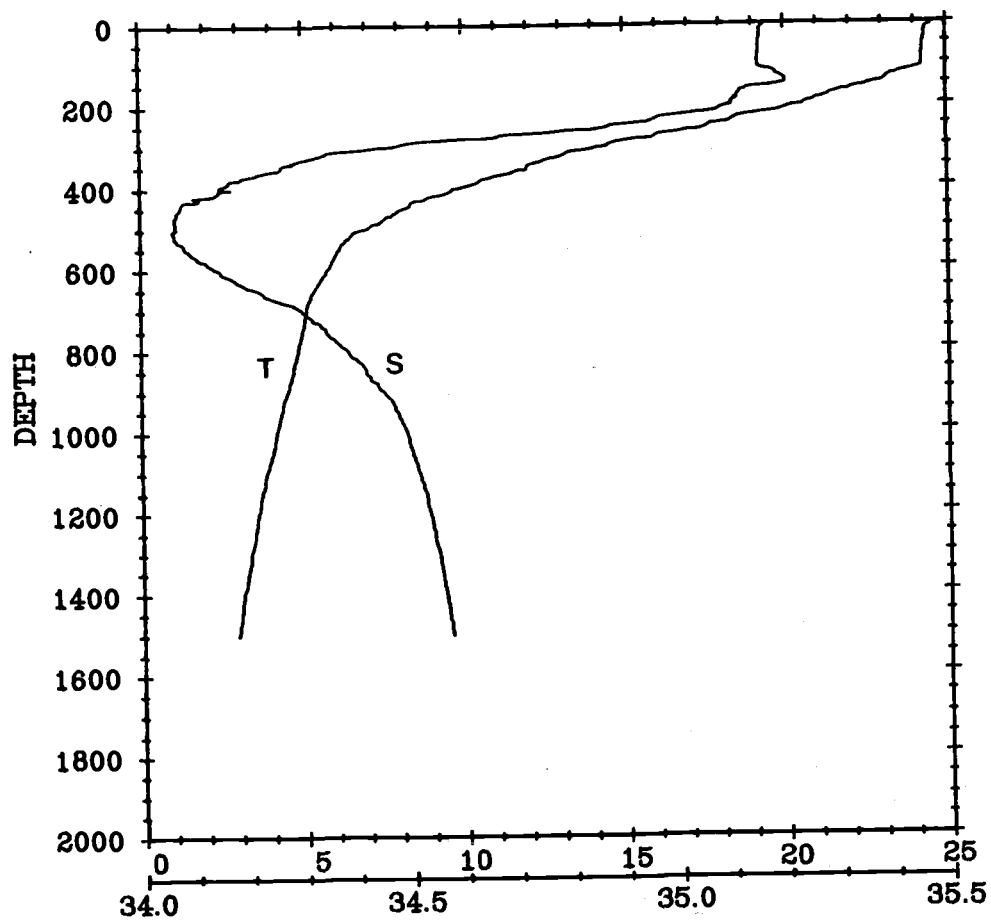
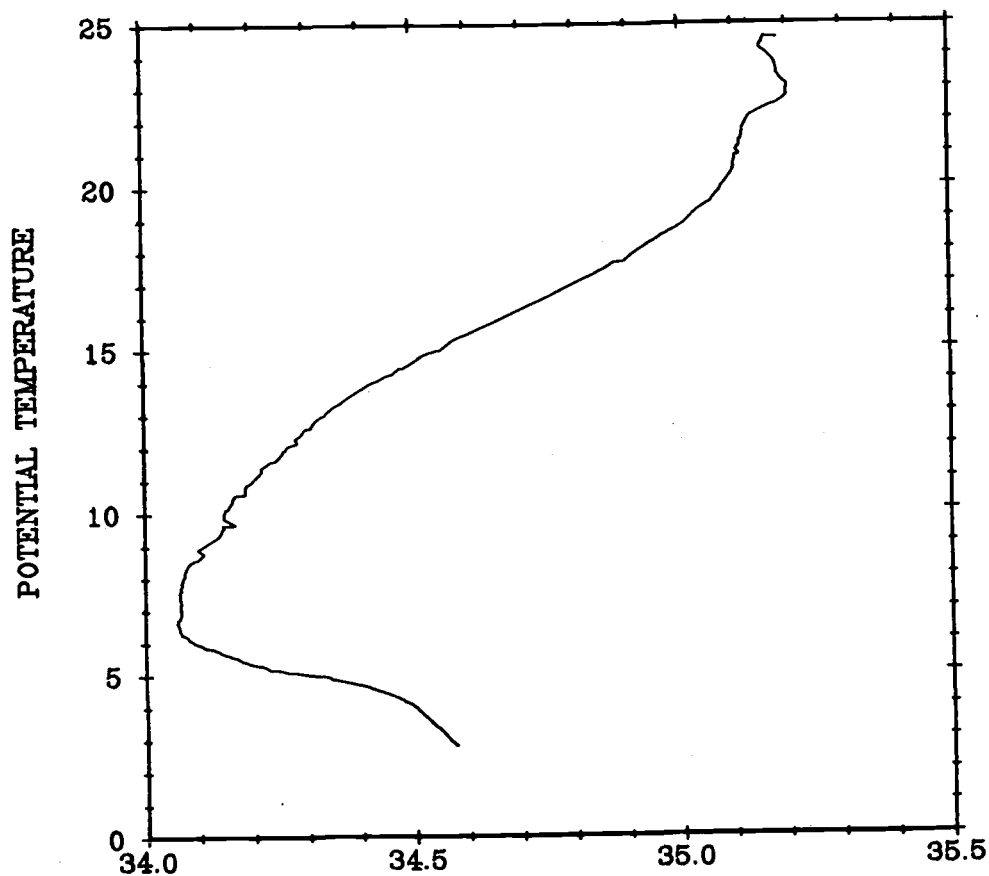


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
22 18.0N	156 48.0W	5/ 6/84	724	3905	90	8	23.6	21.1	1019.6

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	24.529	35.167	24.529	23.612	31.931	39.895	427.095	0.000	0
20	24.374	35.156	24.370	23.651	31.975	39.943	424.174	0.085	19
40	24.319	35.155	24.310	23.668	31.994	39.963	423.395	0.170	39
60	24.277	35.154	24.264	23.681	32.008	39.979	422.987	0.255	59
80	24.260	35.152	24.243	23.686	32.013	39.985	423.363	0.339	79
100	24.239	35.153	24.218	23.694	32.022	39.994	423.408	0.424	99
150	22.711	35.187	22.681	24.169	32.538	40.549	380.053	0.625	149
200	20.527	35.098	20.489	24.708	33.142	41.213	330.279	0.802	199
250	17.768	34.887	17.725	25.254	33.777	41.932	279.357	0.955	249
300	14.274	34.457	14.230	25.720	34.370	42.645	235.195	1.083	298
350	11.987	34.261	11.941	26.027	34.768	43.127	206.118	1.194	348
400	9.957	34.152	9.911	26.305	35.132	43.571	179.441	1.290	398
450	8.204	34.074	8.158	26.523	35.428	43.940	158.248	1.374	447
500	6.987	34.064	6.940	26.690	35.651	44.215	142.096	1.450	497
600	5.789	34.137	5.737	26.904	35.921	44.538	121.895	1.582	596
700	5.093	34.291	5.036	27.109	36.158	44.806	102.776	1.694	696
800	4.818	34.378	4.754	27.210	36.272	44.932	93.963	1.792	795
900	4.511	34.444	4.440	27.297	36.374	45.048	86.281	1.882	894
1000	4.172	34.490	4.095	27.371	36.465	45.154	79.660	1.965	993
1100	3.860	34.513	3.777	27.422	36.531	45.236	75.040	2.043	1092
1200	3.580	34.531	3.491	27.464	36.589	45.307	71.139	2.116	1191
1300	3.352	34.547	3.257	27.500	36.636	45.366	67.965	2.185	1289
1400	3.125	34.560	3.024	27.532	36.680	45.421	64.977	2.252	1388
1500	2.942	34.572	2.835	27.558	36.717	45.467	62.543	2.316	1487
1516	2.901	34.575	2.793	27.565	36.725	45.478	61.929	2.326	1503

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
52	24.292	35.152	4.88	102.1	1.8	0.14	0.1	0.00	3.21	24.281	23.675	32.001	39.971	52
101	24.252	35.151	4.88	102.0	1.0	0.13	0.1	0.00		24.230	23.689	32.016	39.988	101
150	23.156	35.200	4.81	98.6	0.7	0.15	0.1	0.10		23.125	24.051	32.407	40.407	150
201	20.897	35.102	4.39	86.4	1.4	0.29	1.7	0.03	3.70	20.858	24.611	33.034	41.095	201
252	18.209	34.938	4.38	81.9	2.5		3.6	0.02		18.165	25.185	33.693	41.834	253
303	14.505	34.472	4.35	75.4	7.3	0.72	8.7	0.01		14.460	25.682	34.324	42.591	304
379	10.612	34.171	4.09	65.2	19.0	1.27	17.3	0.00		10.566	26.207	35.006	43.419	380
454	8.281	34.075	3.41	51.6	34.7	1.78	25.1	0.00		8.234	26.513	35.413	43.922	456
529	6.482	34.063	2.11	30.6	58.2	2.43	34.0	0.00	1.40	6.434	26.757	35.741	44.328	531
603	5.758	34.141	1.18	16.8	74.1	2.80	38.9	0.00	0.34	5.706	26.910	35.929	44.548	606
704	5.071	34.299	0.55	7.7	91.9		42.6	0.00	0.15	5.013	27.118	36.168	44.817	708
754	4.938	34.344	0.52	7.3	95.3		43.0	0.04	0.01	4.876	27.169	36.226	44.880	758
804	4.806	34.384	0.55	7.7	96.0		43.2	0.05		4.741	27.216	36.279	44.939	809
1005	4.150	34.493	0.88	12.1	109.6		43.6	0.01		4.072	27.375	36.470	45.161	1012
1254	3.435	34.542	1.15	15.5	125.4		43.3	0.02		3.342	27.488	36.620	45.345	1263
1502	2.893	34.573	1.53	20.4	139.5	2.99	42.7	0.00		2.785	27.564	36.725	45.478	1514

MARATHON 2 STA. 4

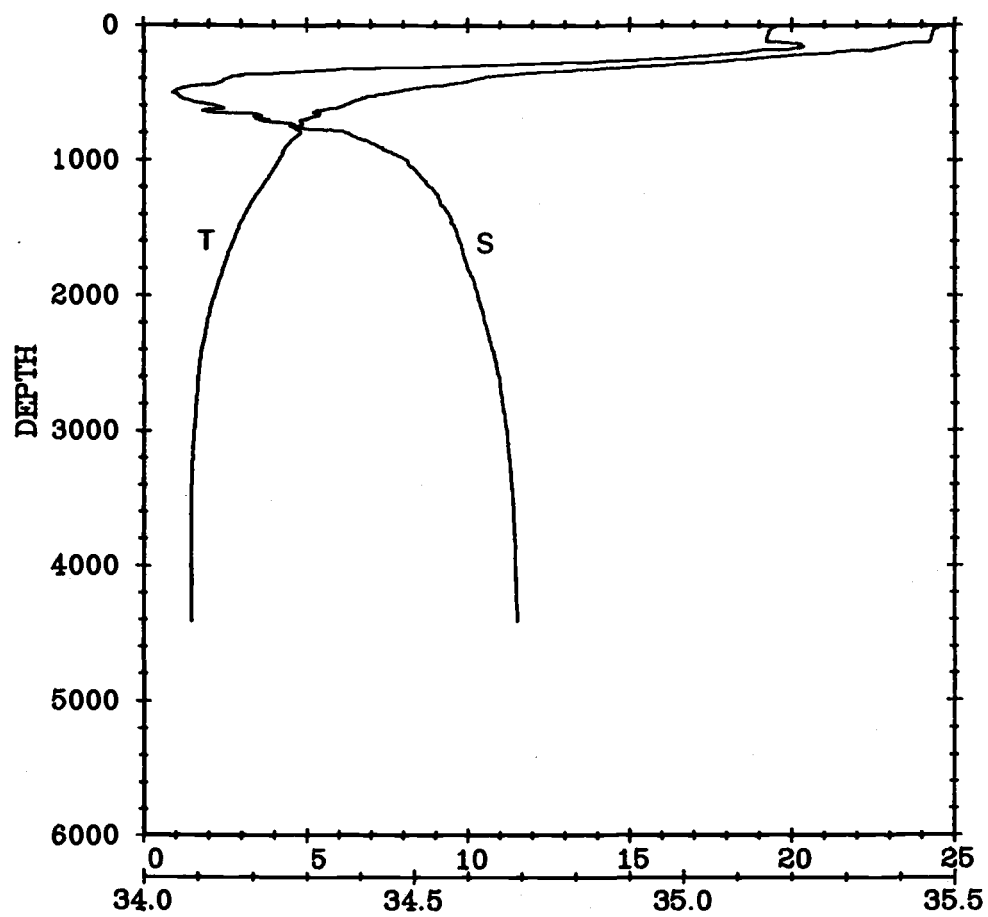
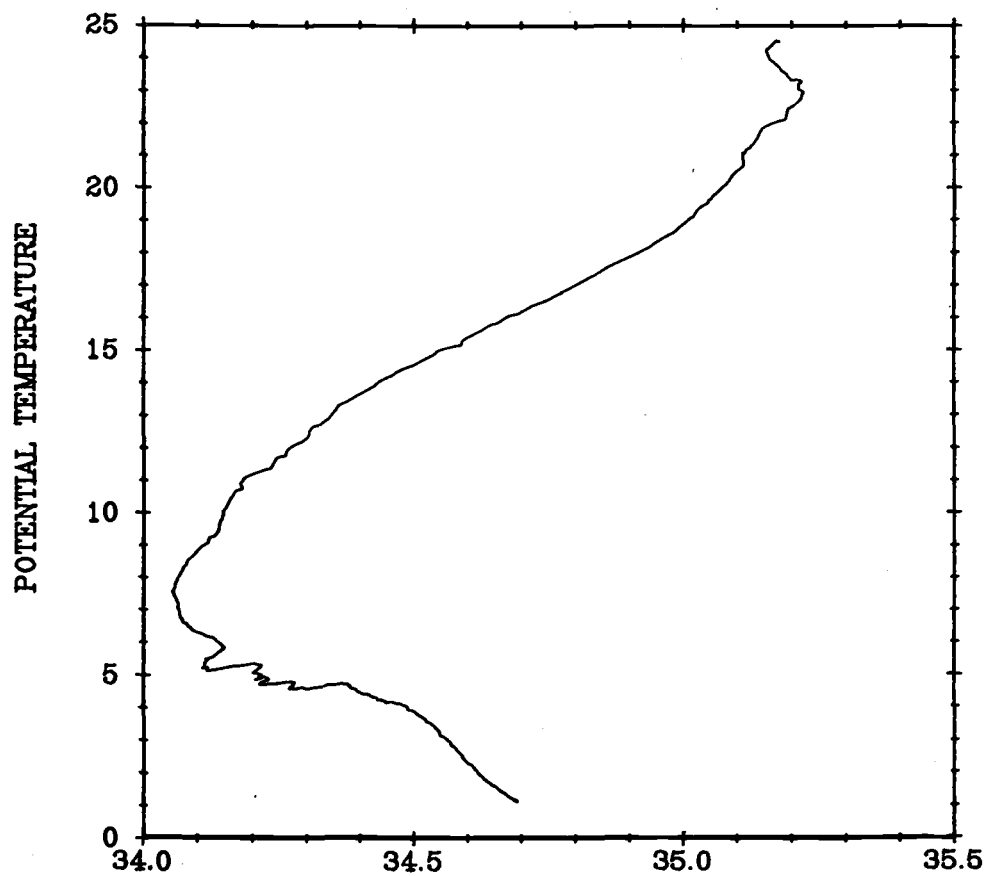


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
22 30.5N	156 26.0W	5/ 6/84	1330	4439	100	7	25.0	21.1	1018.6

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	24.504	35.178	24.504	23.628	31.948	39.912	425.584	0.000	0
20	24.451	35.167	24.447	23.636	31.958	39.924	425.582	0.085	19
40	24.336	35.159	24.327	23.666	31.991	39.960	423.591	0.170	39
60	24.299	35.156	24.286	23.676	32.002	39.972	423.470	0.255	59
80	24.283	35.155	24.266	23.681	32.008	39.979	423.803	0.339	79
100	24.266	35.153	24.245	23.686	32.013	39.985	424.178	0.424	99
150	23.185	35.213	23.154	24.052	32.408	40.406	391.230	0.628	149
200	21.338	35.126	21.299	24.509	32.919	40.968	349.337	0.813	199
250	18.699	34.979	18.655	25.094	33.596	41.712	294.896	0.974	249
300	15.919	34.659	15.872	25.515	34.105	42.321	255.410	1.112	298
350	12.303	34.291	12.257	25.990	34.718	43.065	209.817	1.228	348
400	10.304	34.154	10.257	26.248	35.060	43.485	185.144	1.327	398
450	9.058	34.112	9.009	26.422	35.288	43.764	168.577	1.415	448
500	7.696	34.057	7.646	26.585	35.513	44.047	152.759	1.496	497
600	6.139	34.129	6.086	26.854	35.854	44.456	127.081	1.636	596
700	4.928	34.213	4.872	27.066	36.125	44.781	106.523	1.752	696
800	4.782	34.368	4.718	27.206	36.270	44.932	94.258	1.853	795
900	4.337	34.431	4.267	27.306	36.391	45.073	85.118	1.943	894
1000	4.131	34.482	4.054	27.369	36.465	45.156	79.754	2.025	993
1100	3.879	34.505	3.796	27.413	36.522	45.226	75.861	2.103	1092
1200	3.619	34.526	3.530	27.457	36.579	45.296	71.977	2.177	1191
1300	3.341	34.545	3.246	27.499	36.636	45.366	67.981	2.247	1289
1400	3.107	34.561	3.006	27.534	36.684	45.426	64.689	2.313	1388
1500	2.898	34.573	2.791	27.563	36.724	45.477	61.942	2.376	1487
1600	2.744	34.582	2.631	27.584	36.754	45.514	60.028	2.437	1586
1700	2.569	34.589	2.450	27.606	36.785	45.554	57.963	2.496	1684
1800	2.446	34.597	2.320	27.623	36.809	45.585	56.407	2.554	1783
1900	2.306	34.609	2.173	27.645	36.839	45.622	54.311	2.609	1882
2000	2.181	34.616	2.042	27.661	36.862	45.652	52.722	2.662	1980
2100	2.051	34.622	1.905	27.676	36.885	45.682	51.105	2.714	2079
2200	1.943	34.629	1.790	27.691	36.906	45.708	49.648	2.765	2177
2300	1.885	34.635	1.725	27.701	36.919	45.725	48.862	2.814	2275
2400	1.796	34.642	1.628	27.714	36.937	45.748	47.582	2.862	2374
2500	1.738	34.649	1.563	27.724	36.951	45.766	46.672	2.909	2472
2600	1.685	34.655	1.502	27.733	36.964	45.781	45.878	2.956	2570
2700	1.644	34.657	1.452	27.738	36.972	45.792	45.512	3.001	2669
2800	1.616	34.661	1.416	27.744	36.979	45.801	45.160	3.047	2767
2900	1.588	34.665	1.379	27.750	36.987	45.811	44.795	3.092	2865
3000	1.553	34.669	1.335	27.756	36.996	45.822	44.322	3.136	2963
3100	1.524	34.671	1.297	27.761	37.002	45.830	44.061	3.180	3061
3200	1.494	34.674	1.258	27.766	37.010	45.840	43.701	3.224	3159
3300	1.481	34.676	1.235	27.769	37.014	45.845	43.646	3.268	3257
3400	1.465	34.679	1.210	27.773	37.020	45.852	43.468	3.311	3355
3500	1.454	34.681	1.189	27.776	37.024	45.857	43.429	3.355	3453
3600	1.449	34.683	1.174	27.779	37.027	45.862	43.473	3.398	3550
3700	1.445	34.684	1.160	27.781	37.030	45.865	43.601	3.442	3648
3800	1.448	34.685	1.152	27.782	37.032	45.867	43.833	3.486	3746
3900	1.449	34.686	1.142	27.783	37.034	45.870	44.033	3.530	3844
4000	1.453	34.686	1.135	27.784	37.034	45.871	44.350	3.574	3941
4100	1.459	34.687	1.130	27.785	37.036	45.872	44.629	3.618	4039
4200	1.462	34.688	1.122	27.786	37.038	45.875	44.859	3.663	4136
4300	1.464	34.689	1.113	27.788	37.040	45.877	45.073	3.708	4234
4400	1.467	34.690	1.104	27.789	37.041	45.879	45.302	3.753	4331
4490	1.468	34.690	1.095	27.790	37.043	45.881	45.542	3.794	4419

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
10	24.465	35.174	4.89	102.6	1.1	0.15	0.0	0.00	24.463	23.637	31.958	39.924	39.924	10
55	24.289	35.157	4.94	103.3	0.7	0.13	0.0	0.00	24.277	23.679	32.006	39.976	39.976	55
105	24.266	35.155	4.90	102.4	0.5	0.12	0.0	0.00	24.244	23.688	32.015	39.986	39.986	105
155	23.283	35.215	4.83	99.3	0.5	0.11	0.0	0.07	23.251	24.026	32.379	40.375	40.375	155
206	21.133	35.114	4.45	88.0	0.9	0.24	1.4	0.03	21.093	24.557	32.972	41.027	41.027	206
306	15.061	34.550	4.41	77.4	6.0	0.63	7.5	0.01	15.014	25.623	34.244	42.490	42.490	307
406	10.200	34.152	4.01	63.3	20.9	1.33	18.5	0.00	10.152	26.264	35.080	43.510	43.510	407
507	7.454	34.056	3.07	45.6	42.3	2.00	28.2	0.00	7.404	26.619	35.558	44.102	44.102	509
607	6.127	34.134	1.35	19.4	66.6	2.66	37.3	0.00	6.073	26.859	35.860	44.462	44.462	610
706	4.873	34.208	0.75	10.5	92.1	2.96	42.0	0.00	4.816	27.068	36.130	44.789	44.789	710
806	4.698	34.385	0.71	9.9	99.1	3.06	42.9	0.00	4.206	27.229	36.297	44.962	44.962	810
907	4.277	34.440	0.91	12.5	107.1	3.05	43.0	0.00	3.992	27.319	36.408	45.093	45.093	912
1007	4.070	34.487	1.02	14.0	112.2		43.1	0.00	3.354	27.379	36.478	45.172	45.172	1013
1257	3.447	34.541	1.20	16.2	125.0		43.1	0.00	2.768	27.486	36.617	45.342	45.342	1266
1506	2.876	34.579	1.48	19.7	136.9		42.4	0.01	2.350	27.570	36.732	45.485	45.485	1518
1755	2.474	34.595	1.80	23.7	147.9		41.7	0.00	2.010	27.619	36.803	45.578	45.578	1771
2005	2.151	34.616	2.01	26.3	155.3		40.9	0.01	1.534	27.663	36.866	45.657	45.657	2024
2564	1.712	34.651	2.60	33.6	164.5	2.70	39.6	0.00	1.306	27.728	36.956	45.772	45.772	2532
3002	1.528	34.672	2.95	37.9	166.3	2.62	38.6	0.00	1.180	27.761	37.002	45.829	45.829	3039
3500	1.451	34.682	3.23	41.3	157.8		37.5	0.01	1.180	27.778	37.025	45.859	45.859	3548
3998	1.455	34.686	3.47	44.3	157.7	2.45	36.9	0.00	1.130	27.784	37.035	45.871	45.871	4057
4420	1.468	34.689	3.50	44.7	153.0		36.6	0.02	1.094	27.789	37.042	45.880	45.880	4490

MARATHON 2 STA. 5

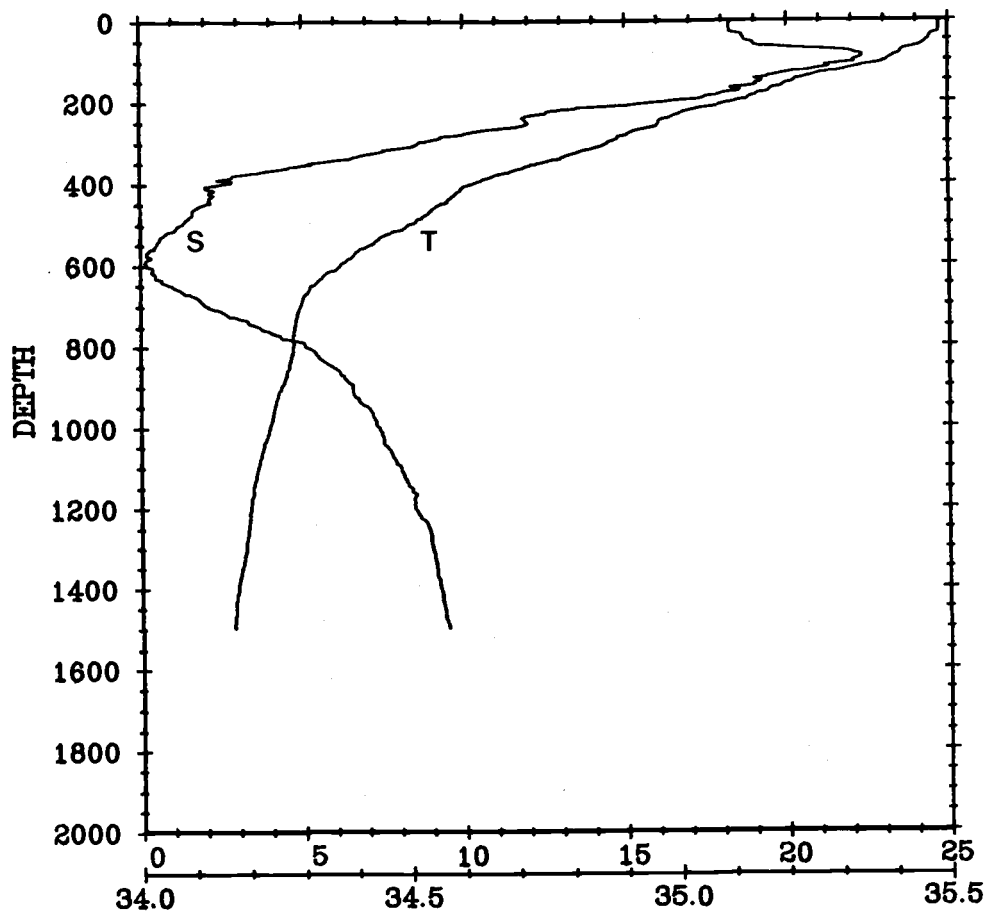
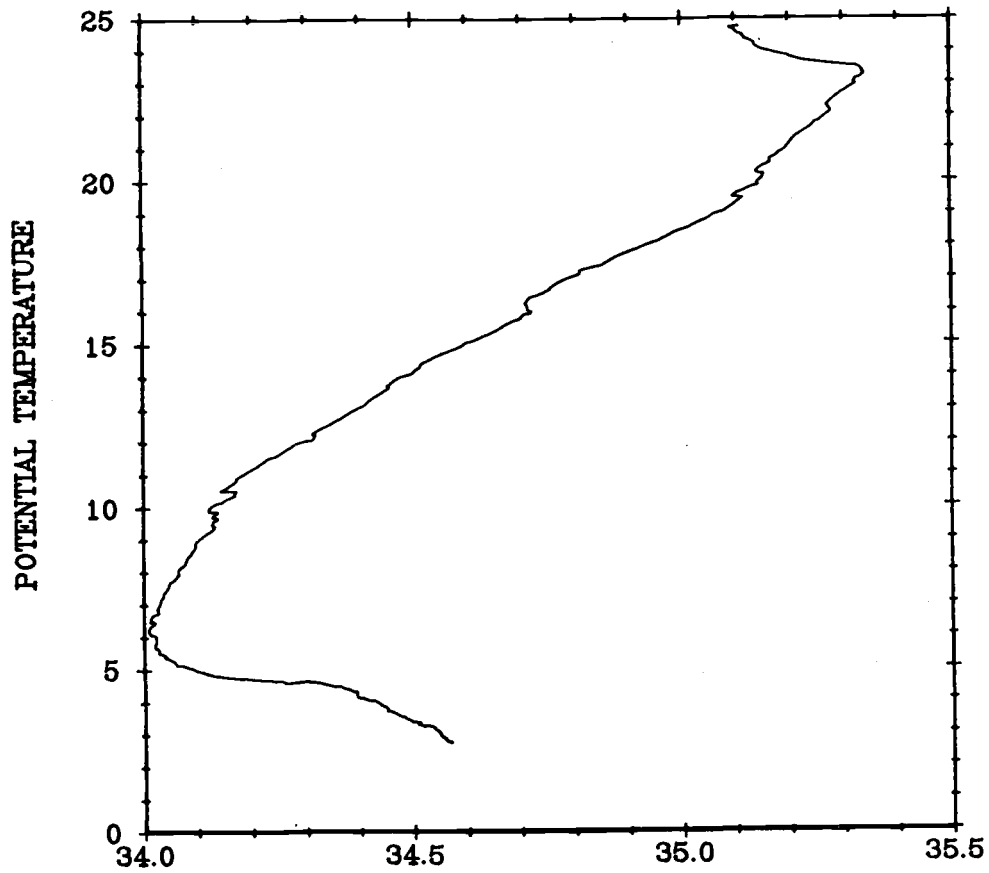


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
23 2.5N	156 18.1W	5/ 6/84	1942		160	13	26.7	23.3	1019.0

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C					CL/TON		M
0	24.705	35.099	24.705	23.507	31.823	39.783	437.062	0.000		0
20	24.687	35.095	24.683	23.511	31.827	39.788	437.554	0.087		19
40	24.460	35.115	24.451	23.596	31.918	39.884	430.311	0.174		39
60	24.112	35.154	24.099	23.730	32.061	40.036	418.294	0.259		59
80	23.503	35.302	23.486	24.023	32.369	40.358	391.177	0.340		79
100	22.992	35.322	22.972	24.188	32.547	40.549	376.264	0.417		99
150	20.190	35.149	20.162	24.834	33.277	41.357	316.316	0.590		149
200	18.360	34.978	18.325	25.176	33.678	41.814	285.222	0.740		199
250	16.080	34.715	16.040	25.520	34.103	42.313	253.439	0.875		249
300	14.490	34.526	14.446	25.727	34.369	42.635	234.610	0.997		298
350	12.448	34.334	12.401	25.995	34.718	43.059	209.405	1.108		348
400	10.351	34.152	10.304	26.238	35.048	43.472	186.092	1.207		398
450	9.367	34.123	9.317	26.381	35.233	43.697	172.830	1.297		447
500	8.403	34.078	8.351	26.497	35.393	43.897	161.821	1.380		497
600	6.231	34.013	6.178	26.750	35.748	44.347	136.902	1.530		596
700	4.923	34.119	4.867	26.992	36.052	44.711	113.439	1.655		695
800	4.639	34.300	4.626	27.163	36.232	44.899	98.153	1.761		795
900	4.354	34.389	4.284	27.270	36.356	45.038	88.424	1.854		894
1000	3.970	34.439	3.895	27.351	36.456	45.156	80.996	1.939		993
1100	3.609	34.477	3.528	27.418	36.541	45.259	74.706	2.016		1092
1200	3.375	34.508	3.288	27.465	36.601	45.330	70.400	2.089		1190
1300	3.227	34.539	3.133	27.505	36.648	45.384	67.065	2.158		1289
1400	2.984	34.553	2.885	27.539	36.695	45.443	63.816	2.223		1388
1500	2.845	34.567	2.739	27.563	36.727	45.482	61.752	2.286		1487
1508	2.826	34.569	2.719	27.566	36.731	45.487	61.426	2.291		1495

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
10	24.779	35.098			1.3	0.15	0.0	0.00		24.777	23.485	31.799	39.757	10
53	24.204	35.129	4.88	101.9	0.5	0.12	0.0	0.00		24.193	23.683	32.012	39.985	53
104	22.961	35.329	5.03	102.9	0.6	0.09	0.0	0.00		22.940	24.202	32.563	40.565	104
138	20.912	35.181	4.90	96.5	0.8	0.14	0.0	0.03		20.885	24.664	33.085	41.144	138
172	19.588	35.126	4.83	92.8	1.5		0.8	0.08		19.556	24.975	33.437	41.535	172
205	18.196	34.948	4.92	92.0	1.8	0.23	1.5	0.03		18.160	25.194	33.702	41.843	205
255	15.967	34.714	4.94	88.3	3.7	0.40	4.1	0.01		15.926	25.545	34.132	42.346	255
306	14.044	34.492	5.08	87.3	5.7	0.56	6.6	0.01		13.999	25.795	34.454	42.736	307
407	10.382	34.170	4.64	73.6	17.1	1.11	15.7	0.00		10.333	26.247	35.055	43.478	408
506	8.220	34.073	4.04	61.0	32.8		23.0	0.00		8.167	26.521	35.425	43.937	508
603	5.878	34.021	2.28	32.6	64.2		34.4	0.00		5.825	26.801	35.815	44.431	606
704	4.853	34.137	1.05	14.7	89.5		40.7	0.00		4.797	27.014	36.078	44.739	708
705	4.854	34.140	1.08	15.1	88.5		40.7	0.00		4.797	27.016	36.080	44.741	709
803	4.704	34.307	0.55	7.7	99.3		42.9	0.01		4.640	27.167	36.235	44.901	808
901	4.325	34.393	0.71	9.8	108.8	3.08	43.3	0.01		4.255	27.277	36.364	45.047	907
1003	3.943	34.440	0.87	11.9	116.1	3.05	43.2	0.00		3.867	27.354	36.460	45.162	1010
1253	3.287	34.535	1.29	17.4	128.2		42.6	0.01		3.196	27.496	36.635	45.368	1262
1488	2.845	34.567	1.57	20.9	139.3	2.92	42.1	0.00		2.739	27.563	36.727	45.482	1500
1489	2.842	34.569	1.55	20.6	139.4		42.0	0.01		2.736	27.565	36.729	45.484	1501

MARATHON 2 STA. 6

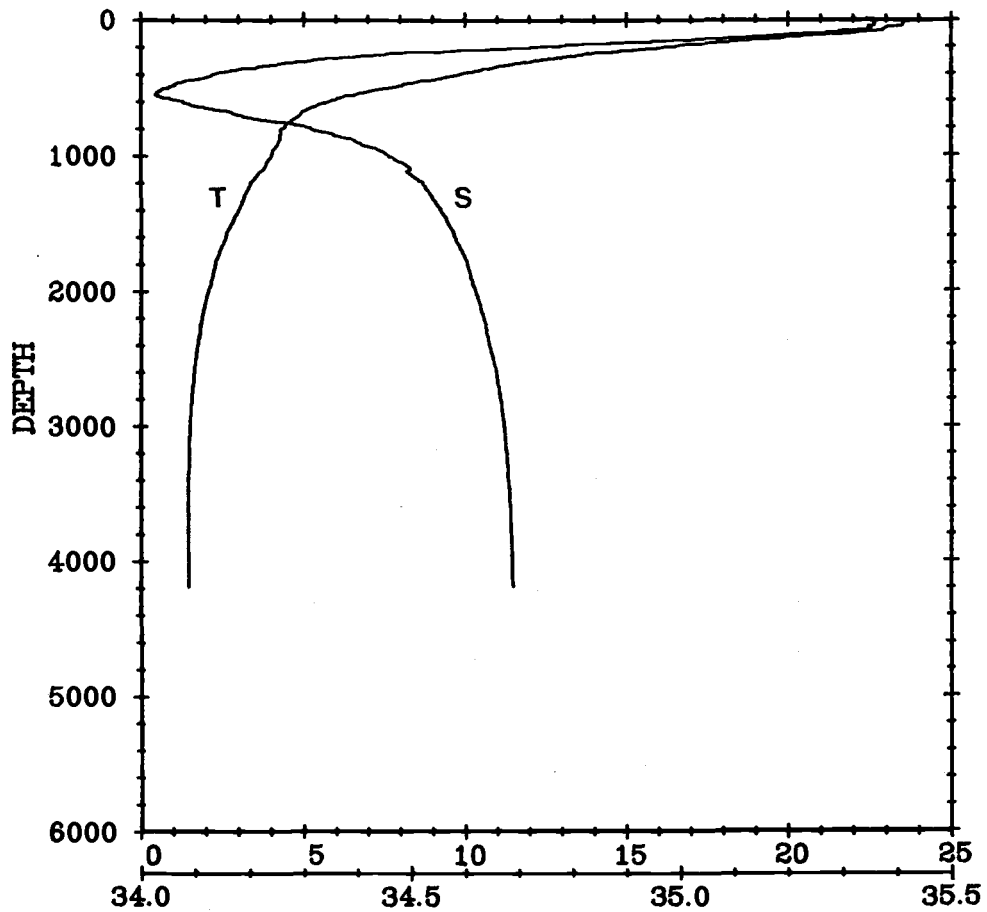
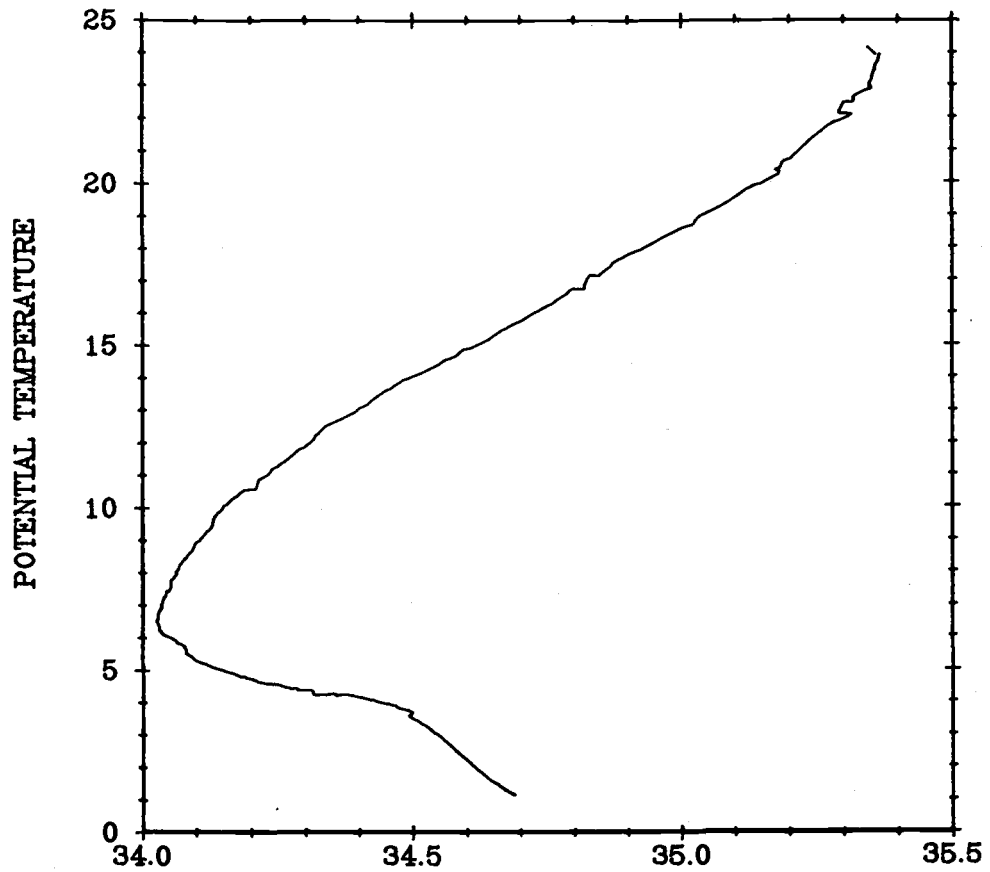


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
23 23.5N	155 55.7W	5/ 7/84	130	4194	20	15	25.0	21.7	1018.3

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C		DEG C				CL/TON		M
0	23.891	35.358	23.891	23.946	32.281	40.259	395.156	0.000	0
20	23.569	35.359	23.564	24.043	32.387	40.373	386.732	0.078	19
40	23.472	35.358	23.464	24.072	32.418	40.407	384.839	0.155	39
60	23.049	35.350	23.037	24.190	32.548	40.547	374.396	0.231	59
80	22.750	35.336	22.734	24.267	32.633	40.641	367.901	0.305	79
100	21.896	35.285	21.876	24.470	32.862	40.893	349.201	0.377	99
150	18.943	35.034	18.916	25.070	33.553	41.670	293.639	0.538	149
200	16.367	34.762	16.335	25.488	34.060	42.261	254.915	0.675	199
250	13.850	34.475	13.814	25.821	34.487	42.776	223.960	0.795	249
300	12.281	34.322	12.241	26.017	34.745	43.093	205.953	0.902	298
350	10.937	34.219	10.894	26.187	34.971	43.370	190.262	1.001	348
400	9.860	34.139	9.814	26.311	35.142	43.585	178.783	1.094	398
450	8.783	34.093	8.735	26.450	35.328	43.816	165.739	1.180	447
500	7.751	34.053	7.701	26.574	35.500	44.031	153.862	1.260	497
600	5.866	34.066	5.814	26.838	35.852	44.468	128.160	1.401	596
700	4.890	34.173	4.834	27.038	36.100	44.759	109.027	1.519	695
800	4.405	34.305	4.343	27.197	36.281	44.962	94.345	1.621	794
900	4.233	34.395	4.164	27.288	36.380	45.067	86.530	1.711	893
1000	4.009	34.455	3.933	27.359	36.462	45.160	80.279	1.795	992
1100	3.779	34.497	3.697	27.417	36.531	45.240	75.249	1.872	1091
1200	3.415	34.516	3.328	27.468	36.602	45.328	70.281	1.945	1190
1300	3.196	34.534	3.103	27.504	36.649	45.386	67.067	2.014	1289
1400	3.015	34.551	2.915	27.534	36.689	45.436	64.331	2.080	1388
1500	2.809	34.565	2.703	27.565	36.730	45.487	61.472	2.143	1487
1600	2.609	34.578	2.497	27.593	36.770	45.537	58.709	2.203	1585
1700	2.445	34.589	2.327	27.616	36.802	45.577	56.475	2.260	1684
1800	2.282	34.601	2.158	27.639	36.834	45.618	54.134	2.316	1783
1900	2.195	34.607	2.064	27.652	36.852	45.641	53.105	2.369	1881
2000	2.088	34.616	1.950	27.668	36.874	45.669	51.580	2.421	1980
2100	1.971	34.624	1.827	27.684	36.897	45.698	49.969	2.472	2078
2200	1.883	34.631	1.731	27.697	36.915	45.721	48.753	2.522	2177
2300	1.808	34.638	1.649	27.709	36.931	45.741	47.669	2.570	2275
2400	1.755	34.642	1.588	27.716	36.942	45.755	47.057	2.617	2373
2500	1.691	34.649	1.516	27.727	36.957	45.774	46.063	2.664	2472
2600	1.642	34.655	1.459	27.735	36.969	45.789	45.313	2.709	2570
2700	1.607	34.659	1.416	27.743	36.978	45.800	44.875	2.755	2668
2800	1.563	34.663	1.364	27.750	36.987	45.812	44.301	2.799	2766
2900	1.533	34.667	1.325	27.755	36.996	45.822	43.899	2.843	2864
3000	1.506	34.670	1.289	27.760	37.002	45.831	43.599	2.887	2962
3100	1.489	34.673	1.263	27.765	37.008	45.838	43.426	2.930	3060
3200	1.478	34.675	1.242	27.768	37.012	45.843	43.402	2.974	3158
3300	1.466	34.677	1.221	27.771	37.016	45.849	43.358	3.017	3256
3400	1.459	34.679	1.203	27.774	37.020	45.853	43.366	3.061	3354
3500	1.451	34.680	1.186	27.776	37.023	45.857	43.455	3.104	3452
3600	1.448	34.682	1.173	27.778	37.027	45.861	43.530	3.148	3550
3700	1.447	34.683	1.161	27.780	37.029	45.864	43.702	3.191	3648
3800	1.449	34.684	1.153	27.781	37.031	45.866	43.919	3.235	3745
3900	1.452	34.685	1.145	27.783	37.032	45.868	44.151	3.279	3843
4000	1.459	34.686	1.141	27.784	37.034	45.870	44.445	3.323	3941
4100	1.466	34.686	1.137	27.784	37.034	45.870	44.811	3.368	4038
4200	1.475	34.687	1.135	27.785	37.035	45.872	45.140	3.413	4136
4256	1.473	34.688	1.126	27.786	37.037	45.874	45.179	3.438	4190

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
10	24.415	5.03	105.6	0.7	0.12	0.0	0.00	24.413	23.792	32.113	40.078	10	
42	23.501	5.05	104.3	0.2	0.09	0.0	0.00	23.492	24.065	32.410	40.398	42	
82	22.387	5.06	102.5	0.3	0.09	0.0	0.00	22.370	24.346	32.723	40.741	82	
163	18.564	4.72	88.9	1.8	0.29	2.2	0.06	18.535	25.128	33.624	41.753	163	
223	15.884	4.94	88.2	3.3	0.41	4.3	0.02	15.849	25.562	34.151	42.368	223	
282	13.380	5.23	88.6	6.3	0.61	7.5	0.01	13.340	25.885	34.569	42.875	282	
354	11.255	5.04	81.5	12.6	0.94	12.6	0.01	11.210	26.145	34.915	43.302	354	
404	9.673	4.72	73.7	19.9	1.22	17.1	0.01	9.627	26.340	35.179	43.629	404	
504	7.344	3.19	47.2	43.1	27.7	0.01	7.295	26.627	35.572	44.121	506		
553	6.333	2.43	35.1	58.3	2.34	33.0	0.00	6.283	26.755	35.747	44.341	556	
603	5.848	1.77	25.3	68.4	2.59	36.3	0.00	5.795	26.843	35.858	44.474	606	
653	5.087	1.04	14.6	85.2	2.90	40.4	0.00	5.034	26.990	36.041	44.691	656	
750	4.576	0.63	8.7	99.8	3.12	42.7	0.00	4.517	27.139	36.215	44.887	754	
799	4.342	0.61	8.4	106.8	3.14	43.1	0.00	4.280	27.203	36.290	44.974	804	
848	4.300	0.63	8.7	108.3	43.2	0.00	4.234	27.264	36.353	45.037	853		
997	3.923	0.98	13.4	115.0	42.9	0.01	3.847	27.386	36.493	45.195	1004		
1195	3.342	1.20	16.2	128.2	42.5	0.02	3.255	27.482	36.619	45.349	1204		
1489	2.735	1.59	21.1	142.4	41.9	0.01	2.630	27.576	36.746	45.507	1501		
1997	2.018	1.98	25.8	161.0	40.9	0.02	1.879	27.680	36.889	45.688	2017		
2478	1.690	2.50	32.3	167.3	2.77	39.7	0.00	1.514	27.729	36.958	45.775	2506	
2967	1.506	3.00	38.5	164.5	2.65	38.2	0.00	1.288	27.763	37.005	45.833	3004	
3458	1.450	3.20	41.0	158.6	37.3	0.02	1.194	27.777	37.025	45.859	3505		
4191	1.473	3.34	42.7	156.9	36.9	0.02	1.126	27.784	37.035	45.872	4256		

MARATHON 2 STA. 7

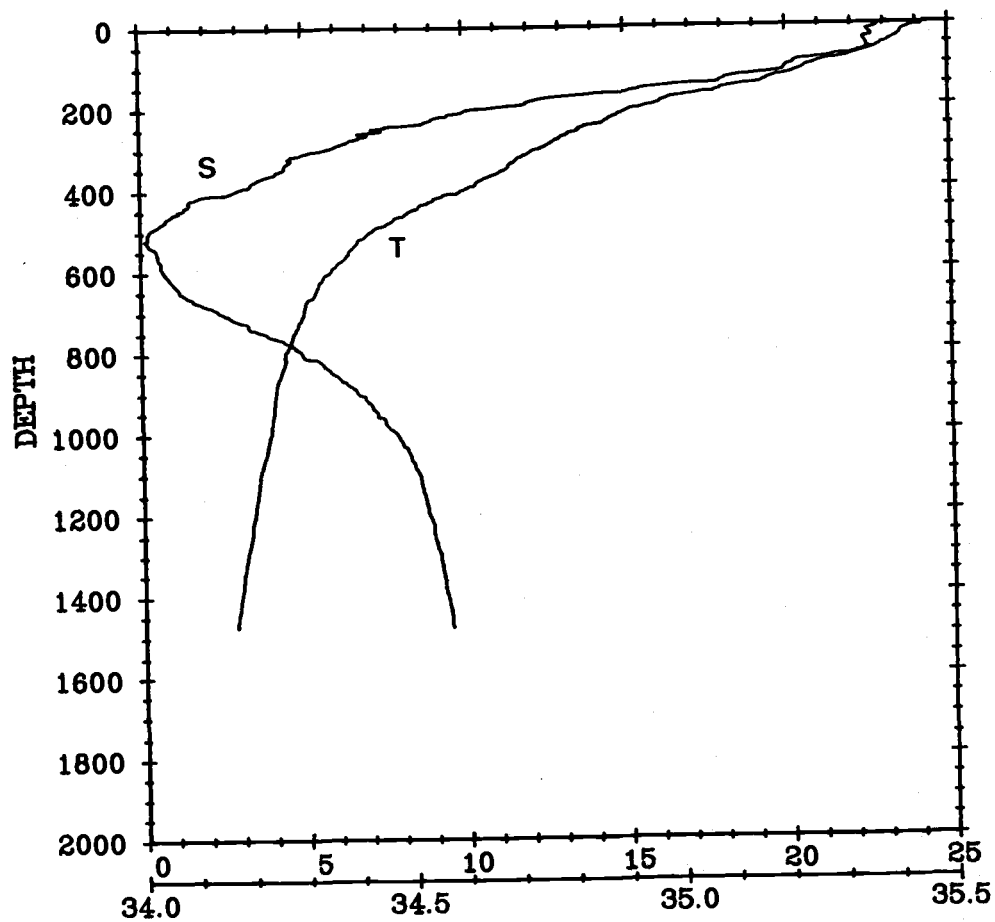
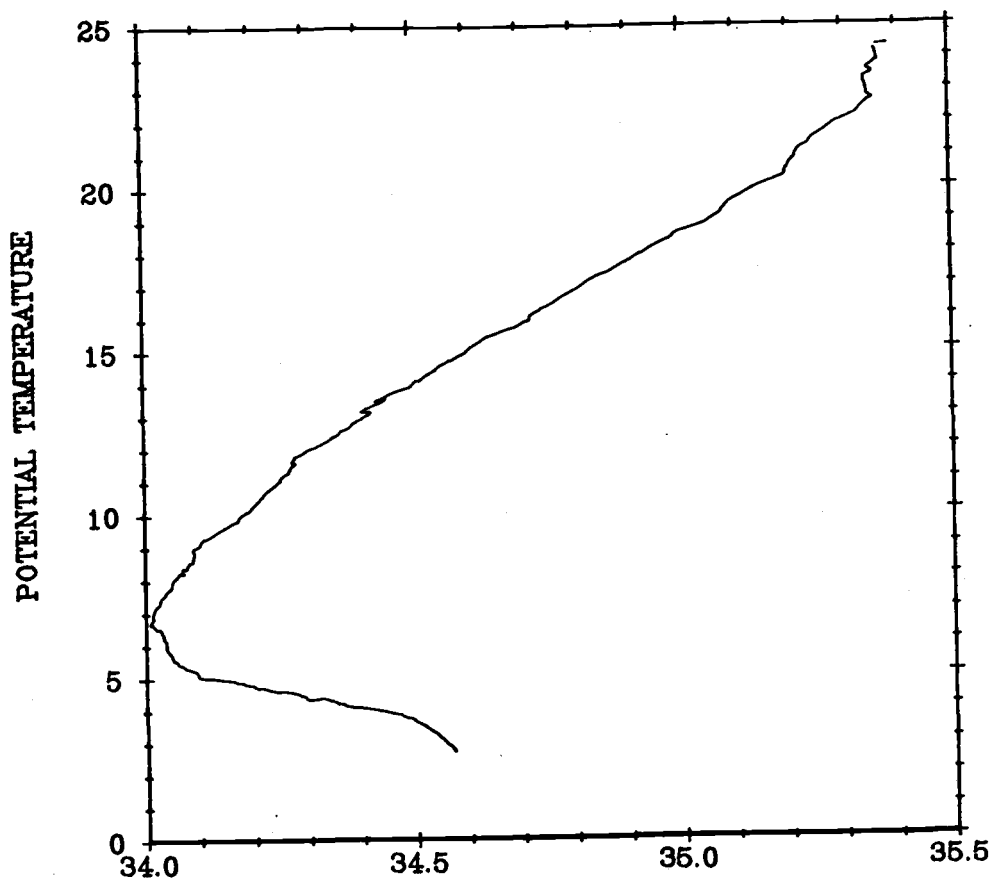


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	SAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
23 45.0N	155 38.4W	5/ 7/84	818	4340	60	11	23.3	21.7	1020.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	24.117	35.371	24.117	23.889	32.217	40.189	400.611	0.000	0
20	23.608	35.356	23.604	24.029	32.372	40.357	388.068	0.079	19
40	23.231	35.348	23.223	24.135	32.487	40.482	378.860	0.156	39
60	22.699	35.347	22.687	24.288	32.656	40.665	365.005	0.230	59
80	21.834	35.283	21.818	24.485	32.878	40.911	346.997	0.301	79
100	20.786	35.210	20.767	24.719	33.143	41.205	325.475	0.368	99
150	18.474	34.986	18.448	25.151	33.550	41.782	285.790	0.521	149
200	15.558	34.658	15.527	25.592	34.194	42.422	244.787	0.654	199
250	13.720	34.456	13.684	25.833	34.504	42.798	222.746	0.771	248
300	12.383	34.342	12.343	26.013	34.737	43.080	206.401	0.878	298
350	11.293	34.259	11.249	26.154	34.923	43.308	193.631	0.978	348
400	10.027	34.178	9.980	26.314	35.137	43.573	178.698	1.071	398
450	8.446	34.075	8.399	26.488	35.381	43.883	161.851	1.156	447
500	7.208	34.020	7.160	26.625	35.576	44.132	148.461	1.234	497
600	5.848	34.042	5.796	26.821	35.837	44.453	129.706	1.373	596
700	4.980	34.142	4.924	27.004	36.061	44.716	112.431	1.494	695
800	4.443	34.290	4.381	27.181	36.264	44.943	95.913	1.598	794
900	4.111	34.396	4.043	27.301	36.399	45.093	84.999	1.689	893
1000	3.919	34.464	3.844	27.376	36.483	45.185	78.538	1.770	992
1100	3.600	34.508	3.519	27.443	36.567	45.284	72.308	1.846	1091
1200	3.403	34.527	3.316	27.478	36.612	45.339	69.327	1.917	1190
1300	3.176	34.545	3.083	27.514	36.660	45.398	66.020	1.984	1289
1400	2.978	34.558	2.879	27.543	36.700	45.448	63.377	2.049	1388
1490	2.793	34.570	2.688	27.570	36.736	45.494	60.855	2.105	1477

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
53	23.092	35.345	5.02	102.9	1.9	0.13	0.1	0.00		23.071	24.176	32.533	40.532	53
103	20.650	35.199	5.18	101.6	2.1	0.13	0.0	0.00		20.630	24.747	33.175	41.241	103
136	19.240	35.073	4.82	92.0	2.3	0.26	1.3	0.12		19.215	25.023	33.496	41.604	136
168	17.377	34.857	5.11	94.0	2.9	0.27	1.3	0.23		17.349	25.322	33.858	42.025	168
203	15.861	34.700	4.91	87.6	4.3	0.43	4.4	0.02		15.829	25.556	34.146	42.364	203
254	13.655	34.446	5.11	87.1	6.6	0.59	7.1	0.01		13.619	25.839	34.512	42.808	255
354	11.163	34.252	5.31	85.7	12.3		11.8	0.01		11.119	26.172	34.947	43.337	355
452	8.332	34.070	4.20	63.6						8.285	26.501	35.400	43.906	454
501	7.147	34.020	3.38	49.9	44.3		27.7	0.02		7.099	26.633	35.587	44.145	503
547	6.447	34.030	2.67	38.7	56.1		32.2	0.01		6.397	26.735	35.722	44.311	550
744	4.630	34.242	0.66	9.2	99.7		42.9	0.02		4.571	27.122	36.196	44.866	748
783	4.453	34.288	0.62	8.6	104.8	3.09	43.4	0.01		4.392	27.178	36.260	44.938	788
831	4.327	34.338	0.63	8.7	107.5	3.11	43.5	0.01		4.263	27.232	36.320	45.003	836
971	4.010	34.437	0.82	11.2	113.5		43.5	0.02		3.936	27.345	36.448	45.146	978
1218	3.384	34.530	1.28	17.3	127.2	2.98	42.9	0.01		3.295	27.482	36.617	45.345	1227
1476	2.793	34.570	1.53	20.3	141.8		42.2	0.02		2.688	27.570	36.736	45.494	1488

MARATHON 2 STA. 8

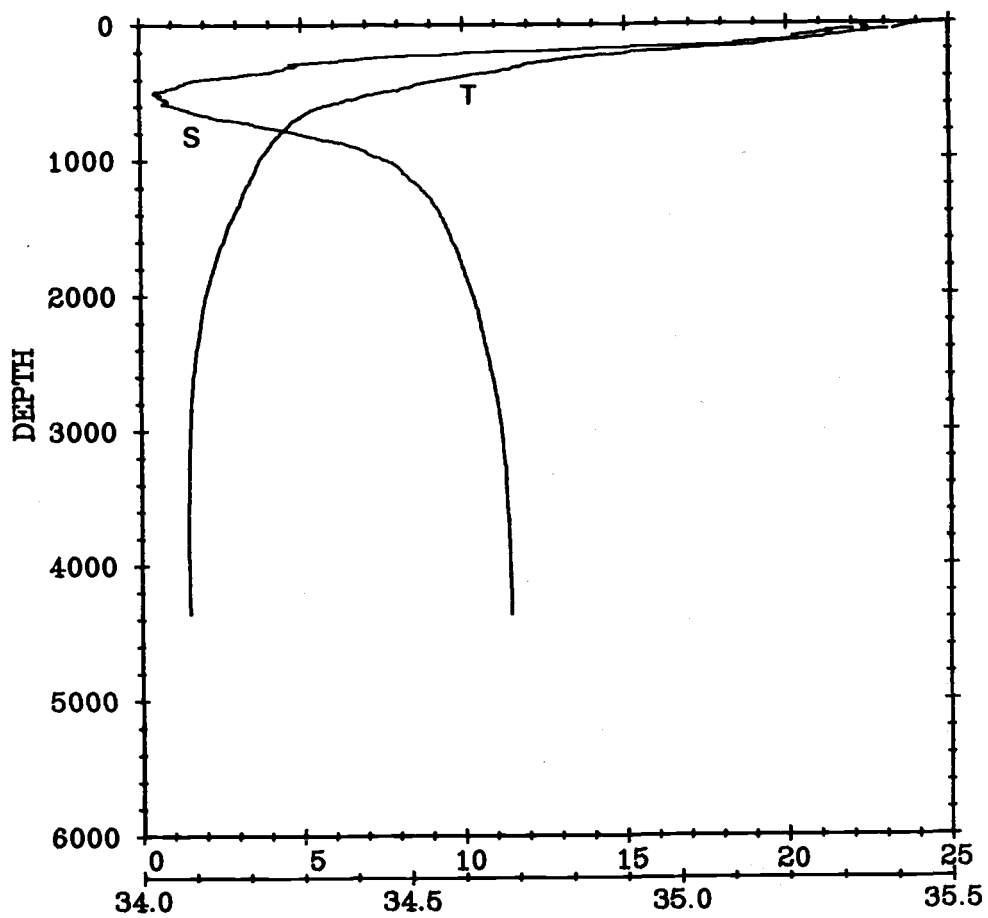
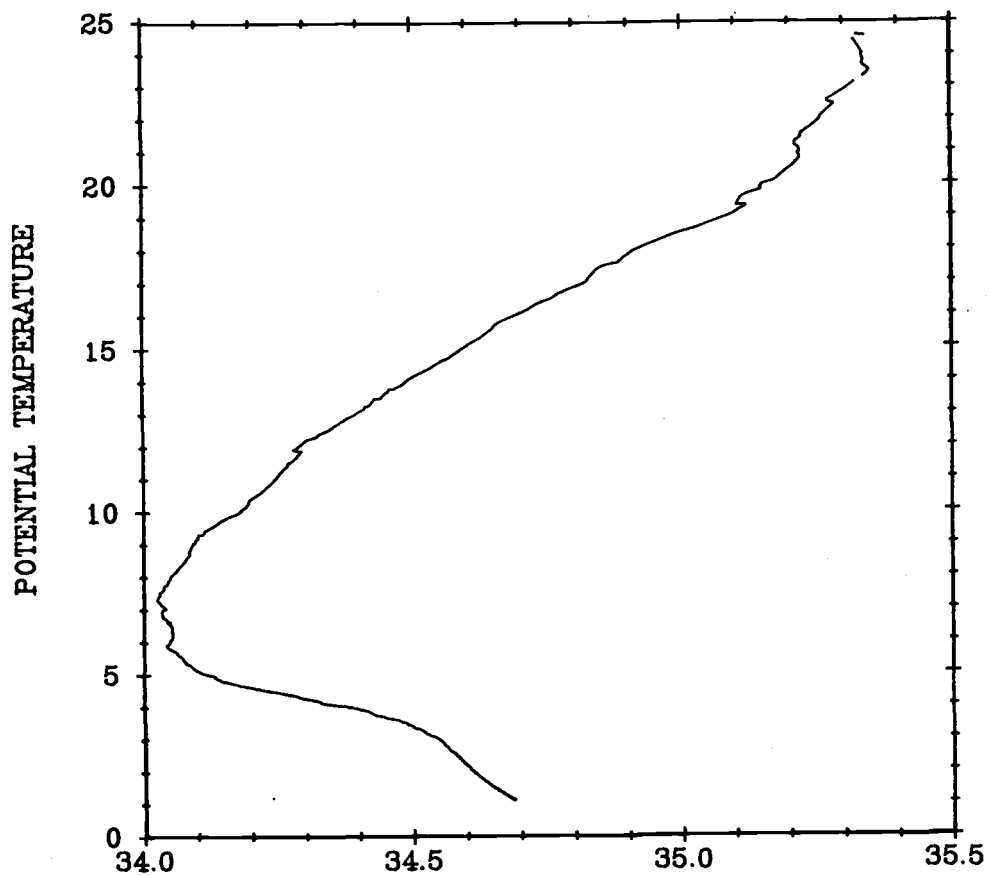


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
24 6.0N	155 21.0W	5/ 7/84	1436	4364	80	6	23.9	21.1	1018.6

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C								M
0	24.312	35.333	24.312	23.802	32.126	40.093	408.904	0.000	0
20	23.720	35.339	23.716	23.984	32.323	40.306	392.436	0.080	19
40	23.330	35.339	23.322	24.099	32.449	40.442	382.258	0.158	39
60	22.501	35.280	22.489	24.294	32.668	40.682	364.457	0.232	59
80	21.798	35.246	21.782	24.467	32.861	40.895	348.716	0.304	79
100	21.156	35.217	21.137	24.623	33.036	41.088	334.577	0.372	99
150	19.203	35.101	19.176	25.054	33.529	41.637	295.140	0.529	149
200	16.130	34.710	16.098	25.503	34.084	42.292	253.457	0.666	199
250	13.319	34.422	13.284	25.889	34.575	42.884	217.299	0.784	248
300	11.907	34.288	11.868	26.062	34.806	43.167	201.508	0.889	298
350	11.034	34.243	10.991	26.188	34.968	43.364	190.205	0.987	348
400	9.625	34.131	9.580	26.344	35.185	43.638	175.497	1.078	398
450	8.535	34.076	8.488	26.475	35.365	43.863	163.144	1.163	447
500	7.610	34.033	7.561	26.579	35.511	44.049	153.276	1.242	497
600	5.813	34.053	5.761	26.834	35.852	44.469	128.436	1.383	596
700	4.876	34.145	4.820	27.018	36.080	44.740	110.934	1.503	695
800	4.389	34.281	4.328	27.180	36.265	44.947	95.935	1.606	794
900	4.028	34.388	3.961	27.303	36.406	45.103	84.610	1.696	893
1000	3.714	34.451	3.641	27.386	36.504	45.216	77.082	1.777	992
1100	3.526	34.489	3.446	27.435	36.563	45.284	72.843	1.852	1091
1200	3.307	34.519	3.221	27.481	36.620	45.352	68.789	1.923	1190
1300	3.130	34.541	3.037	27.515	36.664	45.404	65.773	1.990	1289
1400	2.928	34.557	2.829	27.547	36.706	45.457	62.861	2.054	1388
1500	2.733	34.568	2.628	27.573	36.743	45.504	60.352	2.116	1487
1600	2.595	34.578	2.484	27.594	36.771	45.539	58.543	2.176	1585
1700	2.424	34.590	2.307	27.618	36.805	45.582	56.152	2.233	1684
1800	2.297	34.598	2.173	27.636	36.830	45.613	54.534	2.288	1782
1900	2.163	34.607	2.033	27.654	36.856	45.646	52.718	2.342	1881
2000	2.049	34.615	1.912	27.670	36.878	45.675	51.177	2.394	1980
2100	1.951	34.623	1.807	27.685	36.899	45.701	49.795	2.444	2078
2200	1.878	34.630	1.726	27.696	36.915	45.721	48.763	2.494	2176
2300	1.813	34.636	1.654	27.707	36.929	45.739	47.878	2.542	2275
2400	1.752	34.641	1.585	27.716	36.942	45.755	47.091	2.589	2373
2500	1.693	34.647	1.518	27.725	36.955	45.772	46.234	2.636	2471
2600	1.644	34.652	1.461	27.734	36.966	45.786	45.557	2.682	2570
2700	1.601	34.657	1.410	27.741	36.977	45.799	44.940	2.727	2668
2800	1.557	34.662	1.358	27.749	36.988	45.812	44.292	2.772	2766
2900	1.541	34.664	1.333	27.753	36.992	45.819	44.225	2.816	2864
3000	1.516	34.668	1.299	27.758	37.000	45.828	43.881	2.860	2962
3100	1.499	34.670	1.273	27.762	37.005	45.834	43.782	2.904	3060
3200	1.482	34.672	1.246	27.765	37.009	45.840	43.674	2.948	3158
3300	1.467	34.675	1.222	27.769	37.015	45.847	43.515	2.991	3256
3400	1.466	34.676	1.211	27.771	37.017	45.849	43.697	3.035	3354
3500	1.464	34.678	1.199	27.773	37.020	45.853	43.791	3.079	3452
3600	1.457	34.679	1.182	27.775	37.023	45.857	43.878	3.122	3550
3700	1.455	34.681	1.169	27.777	37.026	45.861	43.966	3.166	3647
3800	1.452	34.682	1.156	27.779	37.029	45.864	44.107	3.210	3745
3900	1.455	34.683	1.148	27.781	37.031	45.866	44.339	3.255	3843
4000	1.458	34.683	1.140	27.781	37.031	45.868	44.641	3.299	3940
4100	1.464	34.684	1.135	27.782	37.033	45.869	44.920	3.344	4038
4200	1.470	34.685	1.130	27.784	37.034	45.871	45.200	3.389	4136
4300	1.478	34.685	1.126	27.784	37.035	45.872	45.583	3.434	4233
4400	1.489	34.686	1.126	27.785	37.036	45.872	45.948	3.480	4331
4432	1.493	34.686	1.126	27.785	37.036	45.872	46.095	3.495	4362

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	24.271	35.319	4.90	102.6	1.1	0.13	0.0	0.00		24.271	23.804	32.128	40.097	1
26	23.571	35.340	5.01	103.6	0.6	0.09	0.0	0.00		23.566	24.029	32.372	40.358	26
56	22.435	35.268	4.98	100.9	0.4	0.12	0.0	0.00		22.424	24.303	32.679	40.696	56
106	20.529	35.198	5.18	101.4	0.6	0.11	0.0	0.00		20.509	24.779	33.210	41.280	106
156	18.346	34.971	5.25	98.5	1.8	0.17	0.1	0.06		18.319	25.172	33.675	41.811	156
207	15.327	34.616	5.02	88.6	3.7	0.46	4.8	0.02		15.295	25.612	34.221	42.458	207
307	11.872	34.287	5.28	86.6	9.8	0.79	10.2	0.01		11.832	26.068	34.813	43.176	308
408	9.638	34.133	4.74	74.0	19.9	1.21	17.1	0.01		9.591	26.344	35.184	43.636	410
508	7.129	34.023	3.33	49.0	43.5		27.9	0.01		7.080	26.638	35.593	44.152	510
608	5.632	34.070	1.68	23.9	71.6	2.62	37.3	0.01		5.580	26.870	35.896	44.521	611
708	4.797	34.155	0.99	13.8	90.6	2.92	41.3	0.01		4.740	27.035	36.101	44.764	712
806	4.299	34.305	0.66	9.1	106.0	3.07	43.3	0.01		4.237	27.209	36.298	44.983	811
906	4.030	34.391	0.80	11.0	115.2	3.09	43.4	0.00		3.961	27.306	36.408	45.105	912
1006	3.772	34.443	0.94	12.8	120.0	3.07	43.2	0.00		3.697	27.374	36.489	45.198	1013
1257	3.218	34.526	1.35	18.1	130.5		42.6	0.00		3.127	27.495	36.639	45.375	1267
1505	2.758	34.570	1.56	20.7	141.7		42.2	0.00		2.651	27.573	36.741	45.501	1518
1755	2.365	34.595	1.76	23.1	151.2		41.7	0.02		2.242	27.628	36.818	45.598	1771
2005	2.075	34.615	2.03	26.5	160.0		41.1	0.00		1.935	27.668	36.875	45.670	2025
2506	1.696	34.648			166.4		39.8	0.01		1.518	27.726	36.956	45.772	2534
3006	1.511	34.671	3.04	39.0	164.8	2.62	38.4	0.00		1.289	27.761	37.003	45.831	3044
3505	1.452	34.680	3.31	42.4	161.7	2.56	37.6	0.00		1.191	27.775	37.022	45.856	3553
4003	1.461	34.685	3.39	43.3			37.1	0.02		1.135	27.783	37.033	45.870	4063
4362	1.493	34.686	3.51	44.9	157.6	2.47	37.0	0.01		1.125	27.785	37.035	45.872	4431

MARATHON 2 STA. 9



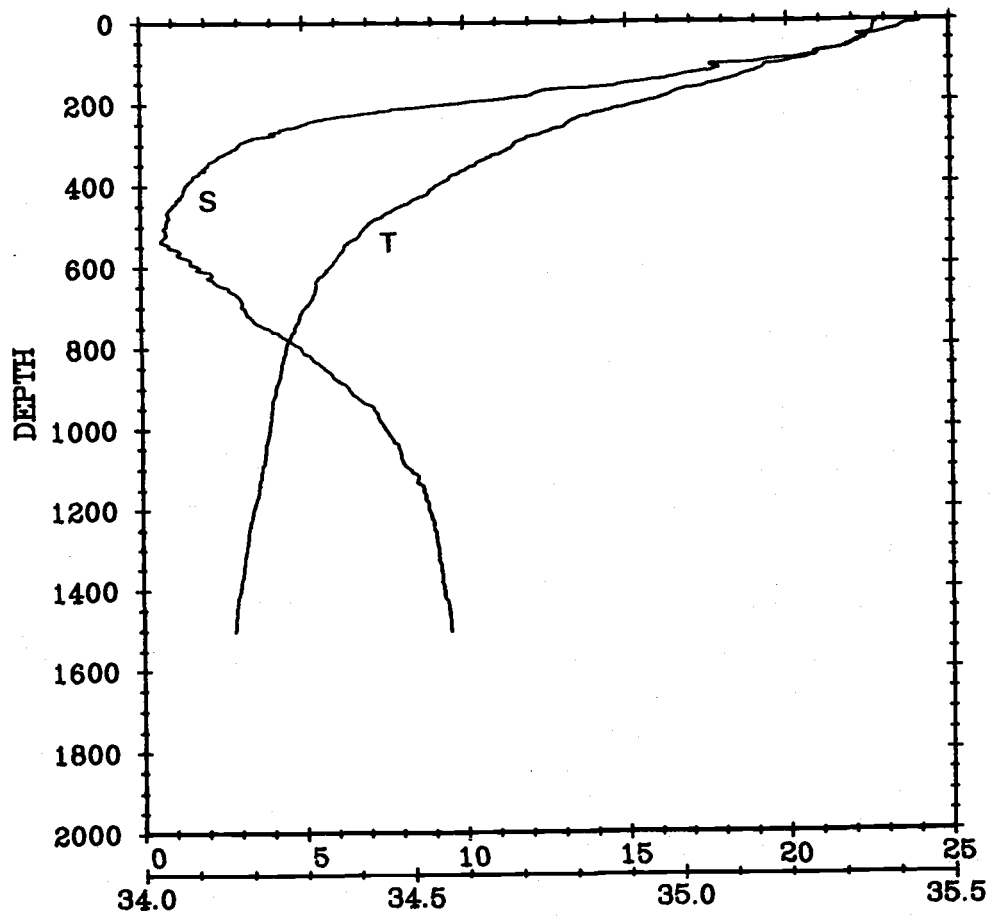
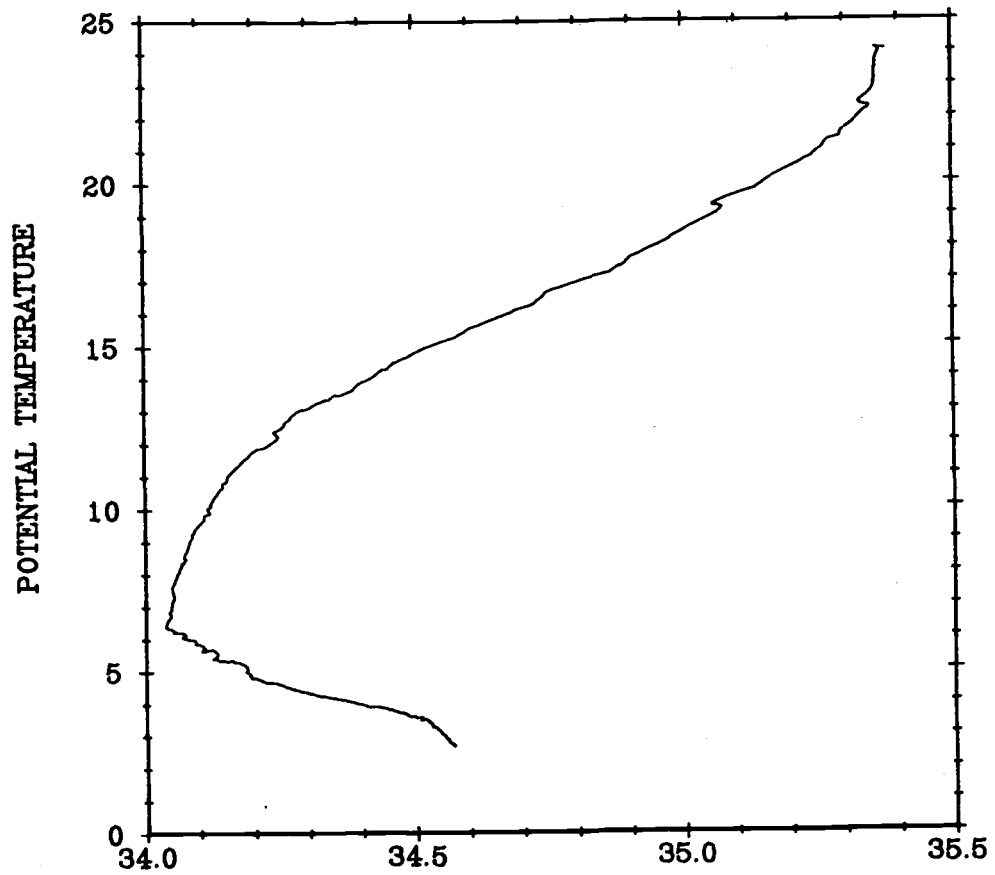
R/V THOMAS WASHINGTON MARATHON LEG II STATION 10

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
24 28.0N	155 3.6W	5/ 7/84	2042	3128	40	8	25.0	21.7	1020.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	23.969	35.365	23.969	23.929	32.261	40.237	396.853	0.000	0
20	23.366	35.359	23.362	24.103	32.451	40.443	381.099	0.078	19
40	22.474	35.345	22.466	24.350	32.723	40.738	358.320	0.152	39
60	21.881	35.321	21.869	24.500	32.891	40.922	344.806	0.222	59
80	21.033	35.257	21.018	24.686	33.102	41.157	327.791	0.289	79
100	20.043	35.152	20.024	24.873	33.320	41.404	310.714	0.353	99
150	17.909	34.928	17.883	25.247	33.764	41.914	276.593	0.500	149
200	15.495	34.597	15.464	25.559	34.164	42.395	247.883	0.631	199
250	13.174	34.306	13.139	25.828	34.522	42.837	222.965	0.749	248
300	11.557	34.185	11.519	26.047	34.806	43.182	202.698	0.855	298
350	10.326	34.125	10.285	26.220	35.032	43.456	186.634	0.953	348
400	9.189	34.086	9.145	26.380	35.240	43.711	171.767	1.042	398
450	8.136	34.062	8.090	26.524	35.432	43.947	158.112	1.125	447
500	6.994	34.046	6.947	26.675	35.635	44.200	143.527	1.200	497
600	5.854	34.098	5.802	26.865	35.880	44.494	125.631	1.335	596
700	5.081	34.187	5.024	27.028	36.080	44.729	110.341	1.453	695
800	4.441	34.286	4.379	27.178	36.261	44.940	96.186	1.556	794
900	4.122	34.376	4.054	27.284	36.382	45.075	86.612	1.647	893
1000	3.897	34.446	3.822	27.364	36.472	45.176	79.608	1.730	992
1100	3.682	34.487	3.601	27.419	36.538	45.252	74.831	1.808	1091
1200	3.416	34.528	3.329	27.478	36.611	45.337	69.407	1.880	1190
1300	3.182	34.545	3.089	27.514	36.659	45.397	66.091	1.947	1289
1400	2.993	34.555	2.894	27.540	36.695	45.443	63.775	2.012	1388
1500	2.798	34.567	2.692	27.567	36.734	45.491	61.194	2.075	1486
1516	2.781	34.569	2.674	27.570	36.738	45.496	60.939	2.085	1502

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
2	24.193	35.358	4.92	102.9	1.2	0.11	0.0	0.00	3.61	24.193	23.857	32.183	40.153	2
53	21.974	35.316	5.20	104.5	1.5	0.08	0.0	0.00		21.953	24.470	32.858	40.886	53
104	19.508	35.121	5.26	101.0	1.8		0.0	0.00		19.489	24.989	33.453	41.552	104
137	18.327	34.974	5.14	96.4	2.1	0.19	0.6	0.13		18.303	25.178	33.681	41.818	137
170	16.736	34.759	4.63	84.1	3.3	0.43	4.3	0.01		16.708	25.399	33.958	42.146	170
204	15.348	34.569	4.64	81.9	4.5	0.54	5.9	0.01		15.316	25.571	34.180	42.417	204
255	12.904	34.288	4.55	76.3	8.7	0.79	10.0	0.00		12.869	25.868	34.572	42.897	255
304	11.287	34.170	4.48	72.5	13.6	1.02	13.9	0.00		11.249	26.084	34.855	43.241	305
405	9.030	34.082	4.03	62.0	25.9		21.1	0.00		8.986	26.402	35.269	43.747	407
505	6.885	34.045	2.59	37.9	49.9		31.1	0.00		6.837	26.689	35.554	44.224	507
605	5.653	34.125	1.12	15.9	73.4		38.9	0.01		5.601	26.911	35.934	44.559	608
705	4.924	34.193	0.73	10.2	90.1		41.9	0.00		4.867	27.051	36.110	44.767	709
805	4.401	34.295	0.49	6.8	103.6		43.6	0.00		4.338	27.190	36.274	44.955	810
905	4.086	34.382	0.63	8.6	110.7	3.10	43.8	0.00		4.017	27.293	36.392	45.087	911
1005	3.879	34.451	0.93	12.7	115.3	3.04	43.2	0.00		3.803	27.370	36.479	45.183	1012
1255	3.248	34.538	1.30	17.5	129.4		42.7	0.01		3.157	27.502	36.644	45.378	1255
1503	2.781	34.568	1.55	20.6	139.6	2.91	42.2	0.00		2.674	27.569	36.737	45.495	1516

MARATHON 2 STA. 10

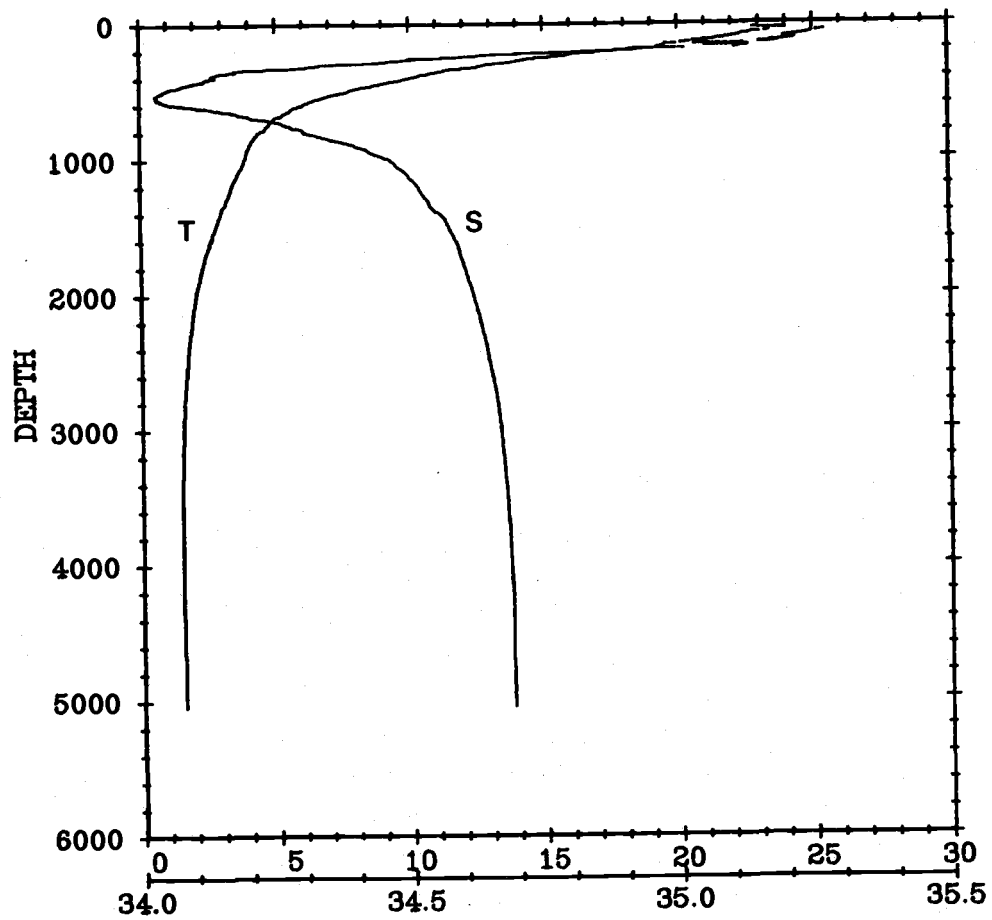
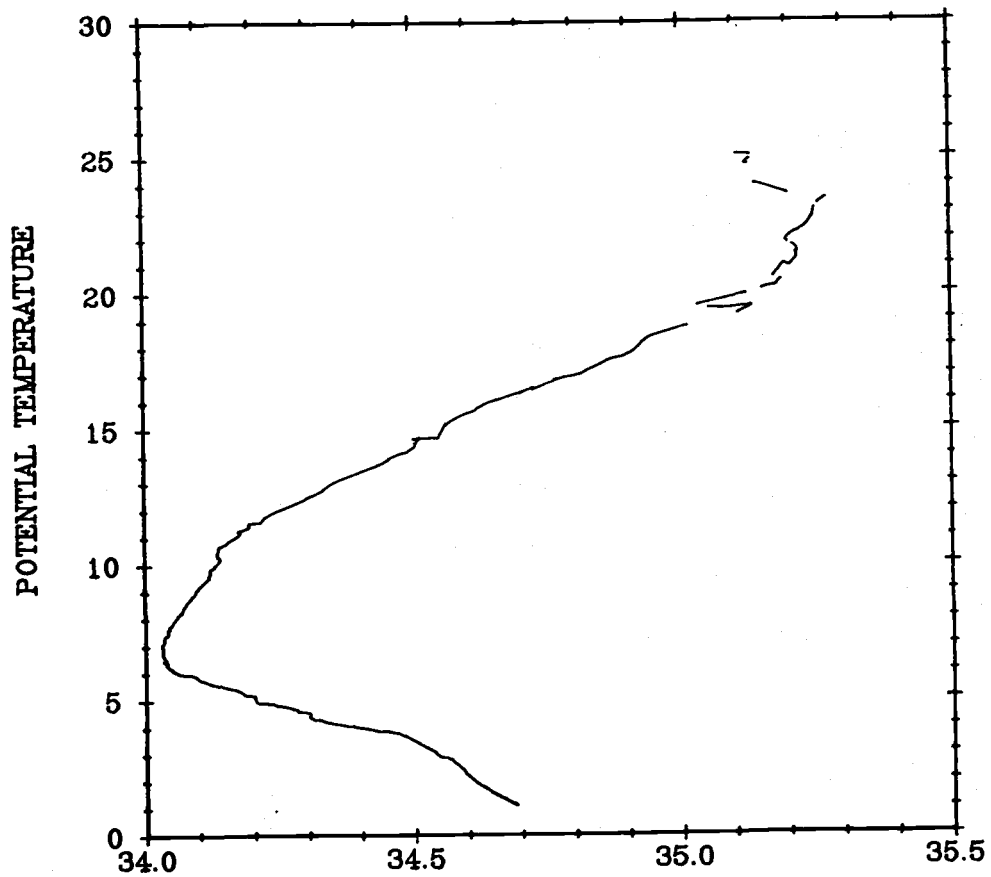


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	NB
24 48.3N	154 37.8W	5/ 8/84	306	5144	90	10	24.4	21.7	1019.0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	24.953	35.122	24.953	23.450	31.759	39.713	442.569	0.000	0
20	24.585	35.124	24.581	23.564	31.882	39.846	432.527	0.088	19
40	23.925	35.157	23.917	23.787	32.123	40.102	412.068	0.172	39
60	23.419	35.238	23.407	23.998	32.346	40.338	392.742	0.252	59
80	22.709	35.243	22.693	24.208	32.576	40.586	373.499	0.329	79
100	22.105	35.213	22.085	24.357	32.743	40.769	350.004	0.402	99
150	20.008	35.122	19.980	24.861	33.310	41.396	313.666	0.571	149
200	17.873	34.902	17.839	25.238	33.757	41.909	279.190	0.719	199
250	15.207	34.563	15.169	25.599	34.214	42.455	245.604	0.850	249
300	13.100	34.358	13.059	25.884	34.581	42.898	218.958	0.966	298
350	11.239	34.176	11.195	26.099	34.872	43.260	198.763	1.071	348
400	10.046	34.130	9.999	26.273	35.096	43.532	182.549	1.166	398
450	8.811	34.084	8.763	26.439	35.316	43.802	166.842	1.254	447
500	7.674	34.043	7.624	26.577	35.507	44.042	153.471	1.334	497
600	5.965	34.085	5.913	26.841	35.850	44.460	128.044	1.474	596
700	4.959	34.217	4.903	27.066	36.123	44.778	106.603	1.592	695
800	4.427	34.304	4.365	27.194	36.277	44.956	94.583	1.692	794
900	4.042	34.397	3.974	27.309	36.411	45.108	84.108	1.782	893
1000	3.867	34.458	3.792	27.376	36.486	45.191	78.364	1.863	992
1100	3.629	34.491	3.548	27.427	36.549	45.265	73.907	1.939	1091
1200	3.381	34.514	3.294	27.470	36.605	45.333	70.028	2.011	1190
1300	3.212	34.531	3.118	27.500	36.644	45.381	67.478	2.080	1289
1400	2.976	34.549	2.877	27.536	36.693	45.442	64.016	2.146	1388
1500	2.797	34.571	2.691	27.570	36.737	45.494	60.888	2.208	1487
1600	2.609	34.583	2.497	27.597	36.774	45.541	58.342	2.268	1585
1700	2.424	34.592	2.307	27.620	36.807	45.584	56.005	2.325	1684
1800	2.272	34.599	2.148	27.638	36.834	45.619	54.161	2.380	1783
1900	2.159	34.607	2.029	27.655	36.856	45.647	52.670	2.433	1881
2000	2.040	34.615	1.903	27.671	36.880	45.677	51.067	2.485	1980
2100	1.962	34.622	1.818	27.693	36.896	45.698	50.003	2.536	2078
2200	1.885	34.629	1.733	27.695	36.913	45.719	48.923	2.585	2177
2300	1.825	34.635	1.666	27.705	36.927	45.736	48.102	2.634	2275
2400	1.749	34.640	1.582	27.715	36.941	45.755	47.125	2.691	2373
2500	1.707	34.645	1.532	27.723	36.952	45.768	46.560	2.728	2472
2600	1.668	34.650	1.485	27.730	36.962	45.780	46.015	2.774	2570
2700	1.620	34.655	1.429	27.738	36.973	45.794	45.337	2.820	2668
2800	1.584	34.659	1.384	27.745	36.982	45.805	44.872	2.865	2766
2900	1.562	34.662	1.353	27.750	36.988	45.813	44.655	2.910	2864
3000	1.537	34.666	1.319	27.755	36.996	45.822	44.315	2.954	2962
3100	1.525	34.667	1.298	27.757	36.999	45.827	44.362	2.999	3060
3200	1.508	34.670	1.272	27.762	37.005	45.834	44.187	3.043	3158
3300	1.496	34.672	1.250	27.765	37.009	45.839	44.148	3.087	3256
3400	1.483	34.674	1.227	27.768	37.013	45.845	44.088	3.131	3354
3500	1.478	34.676	1.212	27.771	37.017	45.849	44.141	3.175	3452
3600	1.468	34.678	1.192	27.774	37.021	45.854	44.114	3.220	3550
3700	1.466	34.679	1.180	27.775	37.023	45.857	44.275	3.264	3648
3800	1.461	34.681	1.165	27.778	37.027	45.862	44.317	3.308	3745
3900	1.464	34.682	1.157	27.779	37.029	45.864	44.551	3.353	3843
4000	1.465	34.682	1.147	27.780	37.030	45.866	44.823	3.397	3941
4100	1.462	34.684	1.133	27.782	37.033	45.870	44.888	3.442	4038
4200	1.466	34.685	1.126	27.784	37.035	45.872	45.135	3.487	4136
4300	1.470	34.686	1.119	27.785	37.036	45.874	45.382	3.532	4233
4400	1.480	34.686	1.117	27.785	37.037	45.874	45.798	3.578	4331
4500	1.490	34.686	1.115	27.785	37.037	45.874	46.216	3.624	4428
4600	1.501	34.686	1.114	27.785	37.037	45.875	46.653	3.670	4525
4700	1.511	34.687	1.112	27.786	37.038	45.875	47.006	3.717	4623
4800	1.523	34.686	1.112	27.786	37.037	45.875	47.534	3.764	4720
4900	1.528	34.687	1.105	27.787	37.039	45.877	47.803	3.812	4817
5000	1.540	34.688	1.104	27.788	37.040	45.878	48.197	3.860	4914
5100	1.549	34.688	1.101	27.788	37.040	45.878	48.608	3.909	5012
5142	1.550	34.688	1.097	27.788	37.041	45.879	48.731	3.929	5052

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PC4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
10	24.707	35.160	4.87	102.6	1.4	0.14	0.0	0.00	24.705	23.553	31.868	39.828	10	
56	23.455	35.259	4.96	102.3	0.9	0.10	0.0	0.00	23.443	24.003	32.350	40.341	56	
107	21.916	35.198	4.76	95.5	0.7	0.14	0.0	0.01	21.895	24.399	32.791	40.822	107	
157	19.695	35.101	4.71	90.7	1.2	0.22	1.3	0.09	19.666	24.927	33.386	41.481	157	
207	17.038	34.797	4.62	84.4	2.3	0.38	4.0	0.01	17.004	25.358	33.907	42.086	207	
308	11.729	34.204	4.59	75.0	11.6	0.95	13.0	0.00	11.689	26.030	34.782	43.151	309	
409	9.305	34.103	4.32	66.9	23.5	1.36	19.4	0.00	9.259	26.375	35.229	43.695	411	
508	7.170	34.035	3.01	44.4	46.8	2.04	29.4	0.00	7.121	26.642	35.594	44.152	510	
609	5.733	34.120	1.19	17.0	73.8		38.7	0.00	5.680	26.897	35.917	44.537	612	
709	4.979	34.216	0.66	9.2	90.8	2.99	42.1	0.00	4.921	27.063	36.119	44.773	713	
809	4.353	34.309	0.52	7.2	108.8	3.08	43.6	0.00	4.290	27.206	36.292	44.975	814	
909	4.018	34.406	0.70	9.6	115.8	3.08	43.6	0.00	3.949	27.319	36.421	45.119	915	
1008	3.845	34.466	0.98	13.4	118.4	3.04	43.2	0.00	3.769	27.385	36.496	45.202	1015	
1257	3.315	34.522	1.26	17.0	130.1	2.99	42.7	0.00	3.223	27.483	36.621	45.353	1267	
1506	2.855	34.570	1.54	20.5	140.2		42.3	0.00	2.747	27.565	36.728	45.483	1519	
1753	2.362	34.595	1.77	23.3	154.3		41.7	0.00	2.239	27.628	36.818	45.598	1769	
2003	2.043	34.617	1.97	25.7	163.2		41.1	0.02	1.904	27.672	36.881	45.678	2020	
2997	1.536	34.667	2.89	37.1	166.4		38.6	0.01	1.315	27.756	36.997	45.824	3035	
3491	1.470	34.677	3.25	41.6	163.9	2.55	37.6	0.00	1.200	27.772	37.019	45.852	3539	
3984	1.461	34.685	3.44	44.0	159.0	2.51	37.1	0.00	1.138	27.783	37.033	45.869	4044	
4482	1.495	34.686			154.8		36.7	0.01	1.113	27.785	37.037	45.875	4555	
4980	1.541	34.688	3.58	45.7		2.45	36.6	0.00	1.096	27.788	37.041	45.879	5067	
5051	1.550	34.689					36.7	0.01	1.096	27.789	37.041	45.880	5140	

MARATHON 2 STA. 11



R/V THOMAS WASHINGTON MARATHON LEG II STATION 12

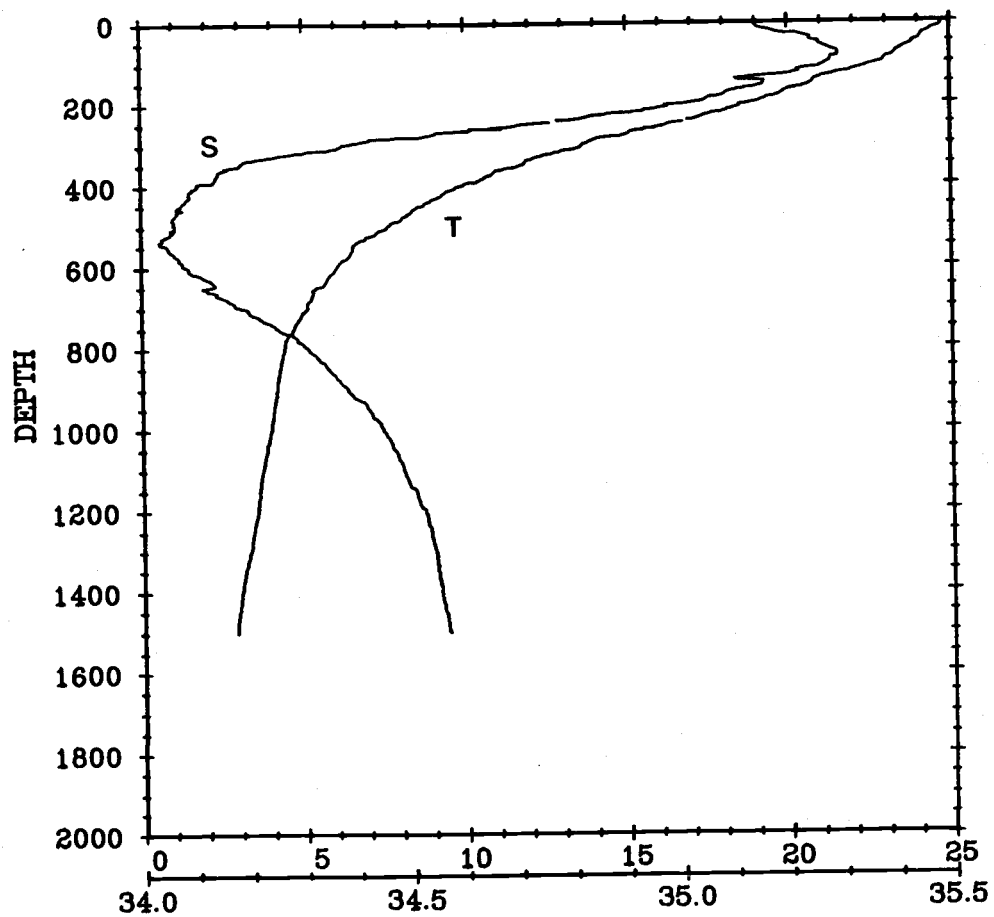
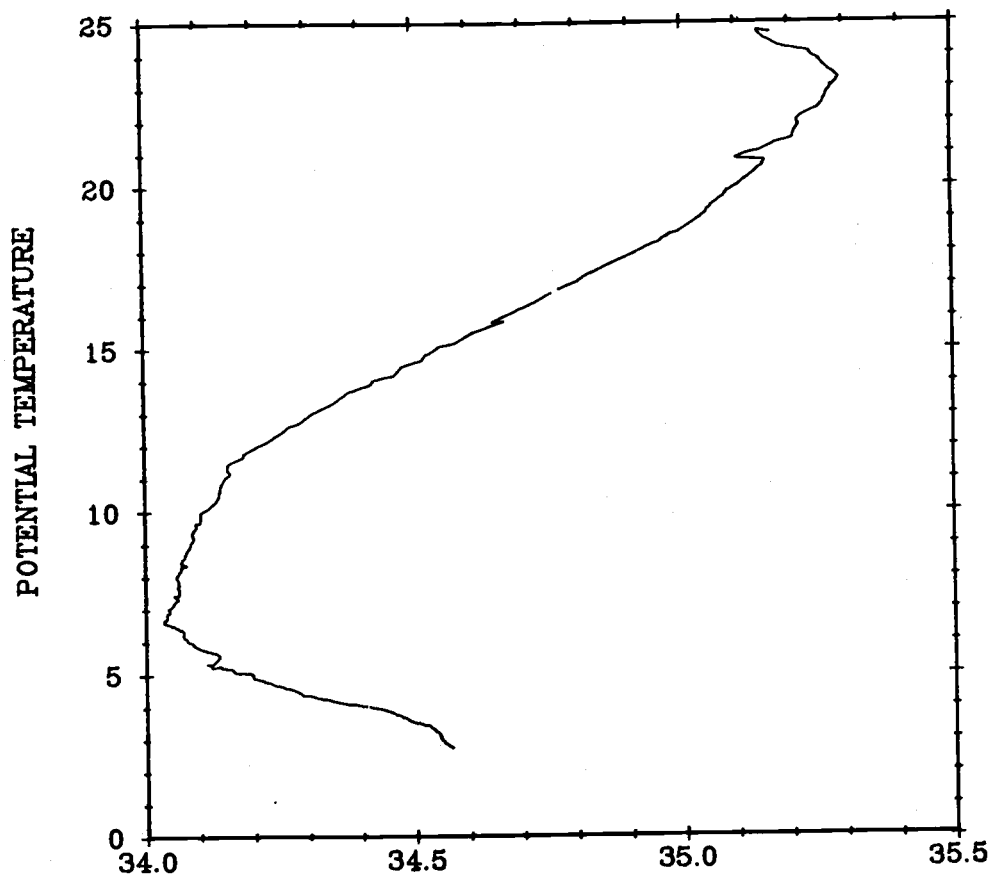
LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
25 11.0N	154 28.6W	5/ 8/84	800	4990	110	11	23.3	21.1	1021.7

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	24.708	35.148	24.708	23.543	31.859	39.818	433.612	0.000	0
20	24.438	35.168	24.434	23.641	31.963	39.930	425.137	0.086	19
40	24.027	35.237	24.019	23.817	32.149	40.125	409.177	0.169	39
60	23.649	35.267	23.636	23.952	32.295	40.280	397.076	0.250	59
80	23.225	35.287	23.209	24.093	32.446	40.442	384.523	0.328	79
100	22.758	35.270	22.738	24.215	32.582	40.591	373.592	0.404	99
150	20.691	35.145	20.663	24.697	33.125	41.191	329.419	0.580	149
200	18.795	35.007	18.760	25.089	33.577	41.700	293.602	0.735	199
250	16.391	34.716	16.351	25.449	34.021	42.222	260.263	0.874	249
300	13.684	34.380	13.641	25.783	34.457	42.753	228.871	0.996	298
350	11.677	34.176	11.632	26.019	34.774	43.146	206.658	1.105	348
400	9.932	34.107	9.886	26.274	35.103	43.543	182.337	1.202	398
450	8.635	34.073	8.587	26.457	35.343	43.837	164.910	1.289	447
500	7.636	34.061	7.586	26.597	35.528	44.064	151.585	1.368	497
600	6.044	34.082	5.991	26.828	35.834	44.441	129.305	1.509	596
700	5.081	34.179	5.024	27.022	36.073	44.723	110.935	1.629	695
800	4.378	34.302	4.317	27.198	36.283	44.965	94.246	1.731	794
900	4.130	34.377	4.062	27.284	36.382	45.074	86.633	1.822	893
1000	3.942	34.444	3.867	27.358	36.464	45.165	80.292	1.905	992
1100	3.690	34.482	3.609	27.414	36.533	45.246	75.296	1.983	1091
1200	3.510	34.518	3.422	27.461	36.589	45.311	71.261	2.056	1190
1300	3.293	34.539	3.199	27.499	36.639	45.371	67.850	2.126	1289
1400	3.020	34.551	2.920	27.534	36.689	45.435	64.390	2.192	1388
1500	2.835	34.564	2.729	27.561	36.726	45.482	61.854	2.255	1487
1514	2.822	34.566	2.715	27.564	36.730	45.486	61.635	2.264	1500

NISKIN BOTTLE DATA									
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN
13	24.662	35.141	4.87	102.5	2.2	0.15	0.0	0.00	24.659
53	23.713	35.262	4.95	102.6	1.7		0.0	0.00	23.702
103	22.239	35.239	4.97	100.3	1.7	0.11	0.0	0.00	22.218
135	20.717	35.145	4.59	90.1	1.6	0.24	0.8	0.04	20.691
166	19.533	35.066	4.46	85.6	2.0	0.29	2.1	0.02	19.503
203	18.057	34.923	4.56	85.0	2.7	0.34	3.1	0.01	18.022
253	15.177	34.564	4.45	78.3	6.0	0.59	6.8	0.01	15.138
304	12.738	34.282	4.39	73.3	10.0		11.0	0.00	12.697
403	9.834	34.124	4.16	65.2	21.4		18.3	0.01	9.787
505	7.603	34.064	2.85	42.4	42.8		28.4	0.01	7.553
604	5.975	34.089	1.51	21.7	67.4		37.1	0.00	5.922
704	5.120	34.194	0.73	10.3	86.5		42.0	0.00	5.062
804	4.372	34.302	0.53	7.3	106.8	3.12	43.8	0.00	4.310
904	4.126	34.381	0.67	9.2	113.0	3.12	44.0	0.00	4.057
1004	3.907	34.449	0.88	12.0	118.9		43.6	0.01	3.831
1255	3.355	34.534	1.29	17.4	129.0	2.97	43.0	0.00	3.263
1498	2.825	34.566	1.49	19.8	140.4		42.6	0.01	2.718

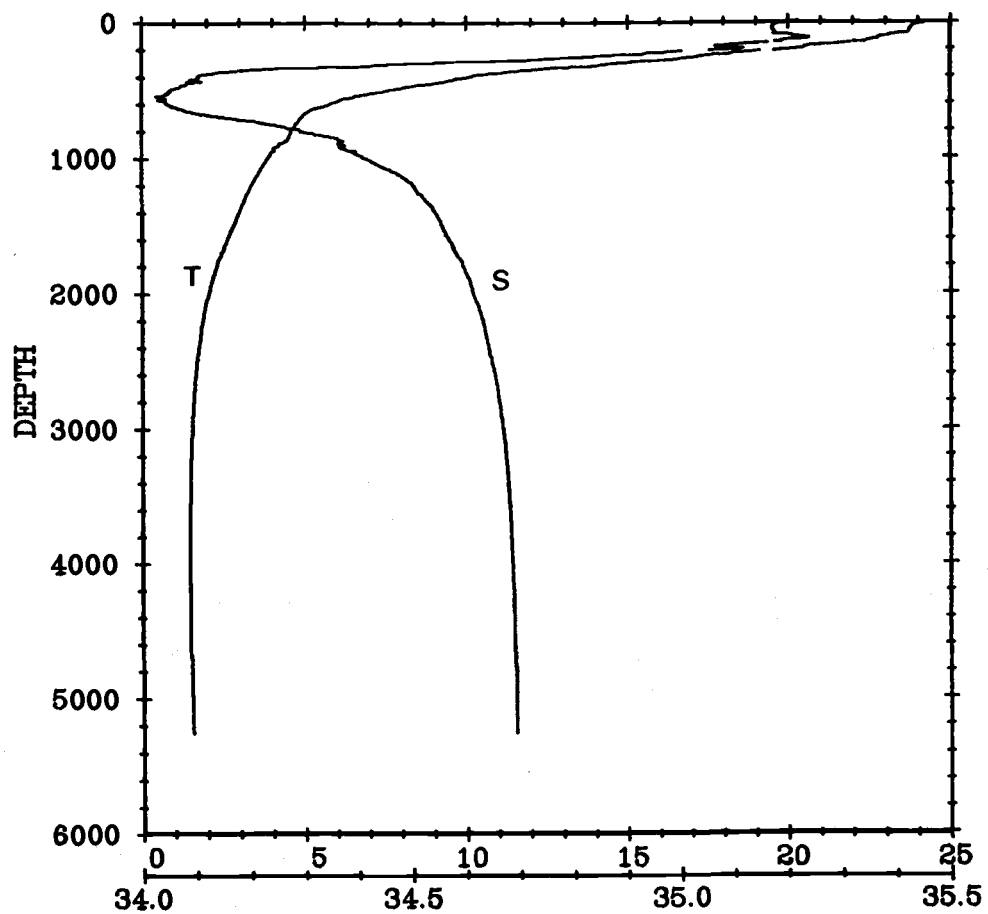
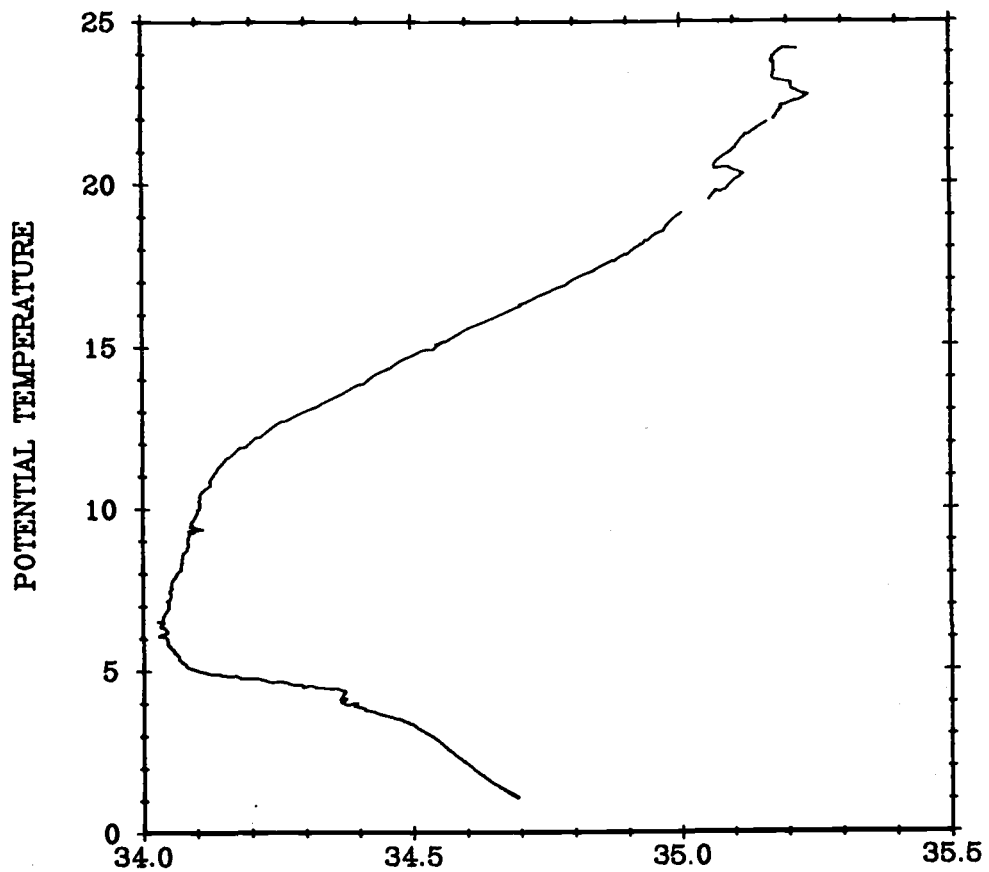
POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEG C				DB
24.659	23.553	31.869	39.830	13
23.702	23.929	32.270	40.254	53
22.218	24.339	32.721	40.744	103
20.691	24.689	33.116	41.181	135
19.503	24.943	33.408	41.508	166
18.022	25.208	33.722	41.967	203
15.138	25.606	34.222	42.465	254
12.697	25.897	34.608	42.939	305
9.787	26.304	35.136	43.580	404
7.553	26.604	35.536	44.074	507
5.922	26.843	35.851	44.461	607
5.062	27.029	36.079	44.727	708
4.310	27.198	36.284	44.966	809
4.057	27.288	36.385	45.078	910
3.831	27.365	36.473	45.176	1011
3.263	27.489	36.625	45.354	1265
2.718	27.564	36.729	45.485	1511

MARATHON 2 STA. 12



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM					
25 32.5N	154 11.0W	5/ 8/84	GMT 1500	M 5266	DIR 130	KT 12	DEG C 23.3	DEG C 20.6	MB 1021.0					
CTD DATA														
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M					
0	24.146	35.202	24.146	23.753	32.082	40.055	413.640	0.000	0					
20	23.997	35.181	23.993	23.782	32.116	40.093	411.654	0.083	19					
40	23.809	35.173	23.801	23.833	32.172	40.154	407.643	0.164	39					
60	23.742	35.173	23.729	23.854	32.195	40.179	406.473	0.246	59					
80	23.633	35.177	23.616	23.890	32.234	40.221	403.837	0.327	79					
100	23.126	35.200	23.105	24.056	32.414	40.414	388.771	0.406	99					
150	22.052	35.170	22.022	24.342	32.730	40.759	363.422	0.594	149					
200	20.175	35.098	20.138	24.801	33.246	41.327	321.289	0.765	199					
250	17.496	34.851	17.454	25.292	33.825	41.989	275.617	0.915	249					
300	14.935	34.524	14.890	25.630	34.256	42.507	244.061	1.045	298					
350	12.118	34.202	12.072	25.956	34.693	43.048	212.878	1.159	348					
400	10.160	34.104	10.113	26.233	35.052	43.484	186.382	1.259	398					
450	9.049	34.084	9.000	26.401	35.268	43.745	170.599	1.348	447					
500	7.662	34.053	7.612	26.587	35.517	44.052	152.556	1.429	497					
600	5.826	34.048	5.774	26.829	35.845	44.463	128.976	1.569	596					
700	4.914	34.151	4.858	27.018	36.079	44.737	110.953	1.689	695					
800	4.593	34.291	4.530	27.166	36.241	44.912	97.649	1.794	794					
900	4.250	34.367	4.181	27.264	36.355	45.042	88.809	1.887	893					
1000	3.888	34.409	3.813	27.335	36.445	45.149	82.240	1.972	992					
1100	3.627	34.461	3.546	27.403	36.526	45.243	76.101	2.052	1091					
1200	3.382	34.501	3.295	27.459	36.595	45.323	70.999	2.125	1190					
1300	3.174	34.521	3.081	27.495	36.642	45.380	67.767	2.195	1289					
1400	2.988	34.540	2.889	27.528	36.684	45.432	64.821	2.261	1388					
1500	2.812	34.554	2.706	27.556	36.721	45.478	62.316	2.324	1487					
1600	2.635	34.566	2.523	27.581	36.756	45.523	59.900	2.385	1585					
1700	2.477	34.578	2.359	27.604	36.789	45.563	57.665	2.444	1684					
1800	2.295	34.593	2.171	27.632	36.826	45.610	54.877	2.501	1783					
1900	2.174	34.604	2.043	27.651	36.852	45.642	53.070	2.555	1881					
2000	2.069	34.611	1.932	27.665	36.873	45.668	51.713	2.607	1980					
2100	1.950	34.621	1.806	27.683	36.897	45.699	49.929	2.658	2078					
2200	1.873	34.629	1.722	27.696	36.915	45.721	48.774	2.707	2177					
2300	1.803	34.635	1.644	27.707	36.929	45.740	47.824	2.755	2275					
2400	1.748	34.640	1.581	27.715	36.942	45.755	47.112	2.803	2373					
2500	1.691	34.646	1.516	27.725	36.955	45.771	46.280	2.850	2471					
2600	1.648	34.651	1.455	27.733	36.965	45.785	45.632	2.896	2570					
2700	1.612	34.656	1.421	27.740	36.975	45.797	45.158	2.941	2668					
2800	1.580	34.659	1.380	27.745	36.982	45.806	44.818	2.986	2766					
2900	1.550	34.663	1.342	27.751	36.990	45.816	44.419	3.031	2864					
3000	1.531	34.666	1.314	27.755	36.996	45.823	44.232	3.075	2962					
3100	1.512	34.670	1.285	27.761	37.003	45.832	43.964	3.119	3060					
3200	1.496	34.672	1.260	27.764	37.008	45.838	43.873	3.163	3158					
3300	1.480	34.675	1.234	27.768	37.013	45.845	43.703	3.207	3256					
3400	1.473	34.676	1.218	27.770	37.016	45.848	43.799	3.250	3354					
3500	1.466	34.679	1.201	27.774	37.021	45.854	43.749	3.294	3452					
3600	1.458	34.680	1.183	27.776	37.024	45.858	43.822	3.338	3550					
3700	1.452	34.682	1.166	27.779	37.027	45.862	43.849	3.382	3647					
3800	1.450	34.683	1.154	27.780	37.030	45.865	44.006	3.426	3745					
3900	1.449	34.683	1.142	27.781	37.031	45.867	44.246	3.470	3843					
4000	1.451	34.684	1.133	27.782	37.033	45.870	44.460	3.514	3940					
4100	1.456	34.685	1.127	27.784	37.035	45.871	44.722	3.559	4038					
4200	1.458	34.686	1.118	27.785	37.036	45.874	44.935	3.604	4135					
4300	1.460	34.687	1.109	27.786	37.038	45.876	45.148	3.649	4233					
4400	1.464	34.688	1.101	27.788	37.040	45.878	45.393	3.694	4330					
4500	1.467	34.688	1.093	27.788	37.041	45.880	45.690	3.739	4428					
4600	1.474	34.689	1.088	27.790	37.043	45.882	45.985	3.785	4525					
4700	1.482	34.689	1.084	27.790	37.043	45.882	46.368	3.832	4623					
4800	1.489	34.690	1.079	27.791	37.045	45.884	46.666	3.878	4720					
4900	1.495	34.691	1.073	27.792	37.046	45.886	46.946	3.925	4817					
5000	1.506	34.691	1.071	27.792	37.046	45.886	47.385	3.972	4914					
5100	1.517	34.691	1.070	27.792	37.047	45.886	47.826	4.020	5011					
5200	1.527	34.691	1.067	27.792	37.047	45.887	48.251	4.068	5108					
5300	1.537	34.692	1.064	27.793	37.048	45.888	48.609	4.116	5206					
5356	1.543	34.691	1.063	27.793	37.047	45.887	48.925	4.143	5260					
NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
1	24.042	35.191	4.94	102.9	1.7	0.13	0.0	0.00	24.042	23.775	32.107	40.083		1
57	23.753	35.172	4.98	103.2	1.3	0.12	0.0	0.00	23.741	23.850	32.190	40.174		57
127	22.440	35.201	4.85	98.2	1.1	0.14	0.0	0.08	22.414	24.255	32.632	40.649		127
178	20.290	35.094	4.51	87.8	1.6	0.25	1.4	0.03	20.256	24.767	33.208	41.885		178
228	17.693	34.878	4.47	82.7	3.3	0.39	4.0	0.01	17.554	25.264	33.790	41.947		228
309	12.695	34.253	4.41	73.6	10.3	0.87	11.0	0.00	12.653	25.883	34.596	42.930		310
407	9.461	34.093	3.93	61.1	24.2	1.46	20.4	0.00	9.415	26.341	35.190	43.649		408
506	7.486	34.052	2.94	43.7	43.3		28.6	0.00	7.436	26.611	35.549	44.092		508
605	5.577	34.063	1.64	23.3	73.1	2.64	37.8	0.00	5.526	26.871	35.899	44.528		608
706	4.863	34.179	0.81	11.3	92.2	2.95	42.0	0.00	4.806	27.046	36.109	44.769		710
807	4.554	34.324	0.63	8.7	103.1	3.04	43.3	0.00	4.490	27.196	36.272	44.946		812
905	4.037	34.373	0.73	10.0	115.4	3.09	43.7	0.00	3.968	27.291	36.393	45.090		911
1005	3.786	34.430	0.89	12.1	120.6	3.06	43.5	0.00	3.711	27.362	36.477	45.186		1012
1253	3.240	34.517	1.28	17.2	133.1		42.9	0.00	3.149	27.486	36.628	45.364		1263
1501	2.806	34.556	1.51	20.1	141.4		42.5	0.00	2.699	27.558	36.724	45.481		1514
1751	2.350	34.590	1.74	22.9	152.4		41.9	0.01	2.228	27.625	36.816	45.597		1767
2002	2.038	34.616	2.02	26.3	162.0		41.3	0.00	1.899	27.672	36.881	45.678		2022
2501	1.674	34.649	2.51	32.4	165.6		39.9	0.01	1.497	27.729	36.959	45.777		2529
3000	1.528	34.668	2.97	38.1	167.4	2.62	38.7	0.00	1.306	27.758	36.998	45.826		3038
3496	1.468	34.679	3.27	41.9	161.3	2.54	37.7	0.00	1.197	27.774	37.021	45.854		3544
3992	1.453	34.686	3.43	43.8	157.2		37.2	0.02	1.129	27.784	37.035	45.872		4052
4591	1.480	34.691	3.66	46.7	153.1	2.43	36.6	0.00	1.085	27.791	37.044	45.883		4667
5260	1.543	34.693	3.67	46.8	144.9		36.3	0.02	1.062	27.794	37.049	45.889		5355

MARATHON 2 STA. 13

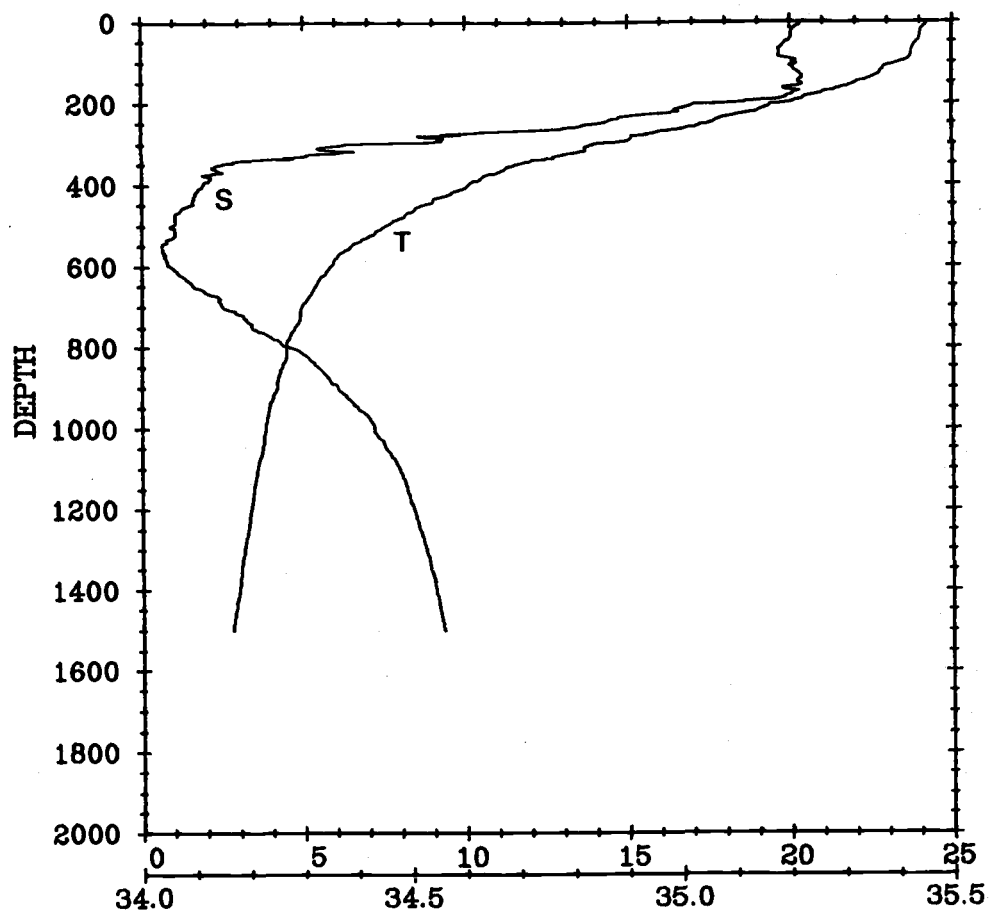
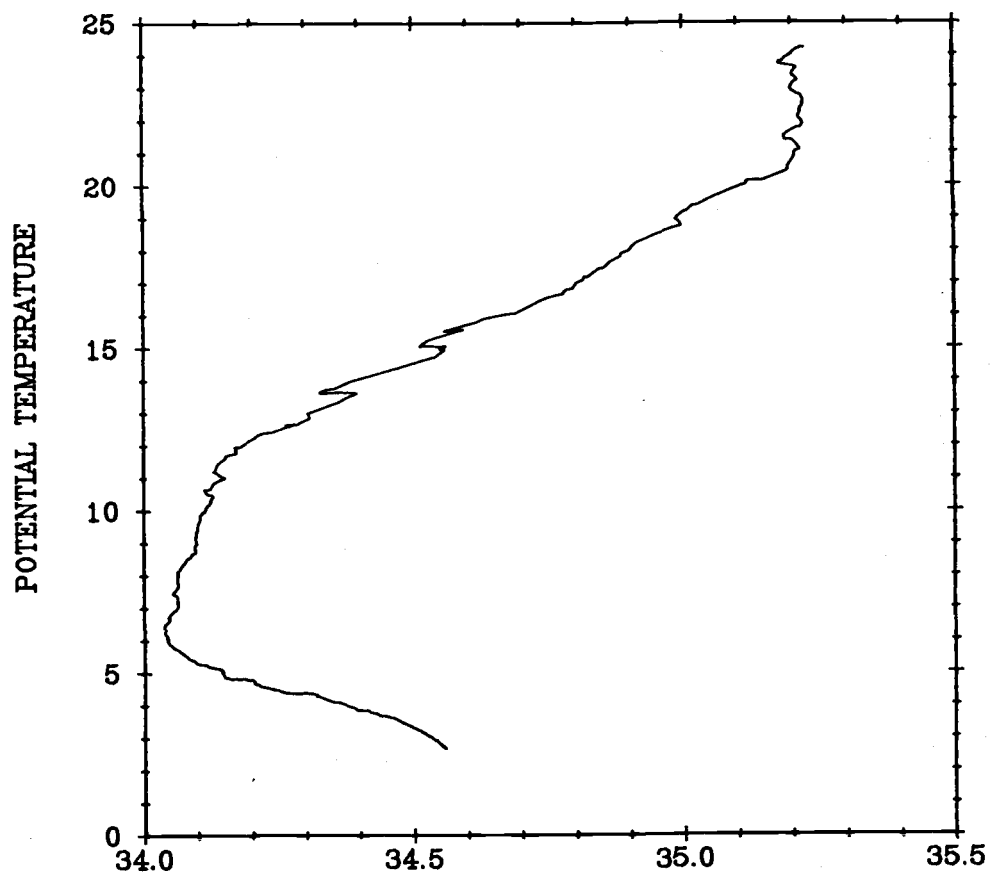


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
25 54.0N	153 53.4W	5/ 8/84	2042	5400	120	12	25.0	21.7	1022.4

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	24.205	35.219	24.205	23.748	32.076	40.047	414.088	0.000	0
20	24.070	35.206	24.066	23.779	32.111	40.086	411.915	0.083	19
40	23.976	35.199	23.968	23.803	32.137	40.115	410.477	0.165	39
60	23.823	35.186	23.810	23.840	32.178	40.160	407.813	0.247	59
80	23.722	35.181	23.705	23.867	32.208	40.193	406.046	0.328	79
100	23.373	35.204	23.352	23.988	32.339	40.332	395.336	0.408	99
150	22.079	35.217	22.049	24.370	32.757	40.784	360.752	0.597	149
200	19.837	35.089	19.800	24.883	33.338	41.429	313.402	0.766	199
250	17.482	34.846	17.440	25.292	33.825	41.989	275.656	0.913	249
300	14.357	34.448	14.313	25.695	34.343	42.615	237.558	1.041	298
350	11.704	34.158	11.659	26.000	34.754	43.125	208.471	1.153	348
400	10.133	34.115	10.086	26.247	35.066	43.499	185.116	1.251	398
450	8.750	34.088	8.702	26.451	35.331	43.820	165.592	1.339	447
500	7.606	34.059	7.557	26.600	35.532	44.070	151.296	1.418	497
600	5.858	34.053	5.806	26.829	35.844	44.459	129.020	1.558	596
700	4.953	34.150	4.897	27.013	36.072	44.728	111.506	1.679	695
800	4.447	34.266	4.385	27.162	36.244	44.923	97.742	1.793	794
900	4.155	34.359	4.087	27.267	36.364	45.055	88.264	1.876	893
1000	3.816	34.430	3.742	27.359	36.472	45.180	79.834	1.960	992
1100	3.576	34.475	3.496	27.419	36.545	45.263	74.465	2.037	1091
1200	3.369	34.501	3.282	27.460	36.597	45.326	70.846	2.110	1190
1300	3.164	34.524	3.071	27.499	36.645	45.385	67.428	2.179	1289
1400	2.985	34.542	2.886	27.530	36.686	45.434	64.638	2.245	1388
1500	2.788	34.557	2.683	27.560	36.727	45.485	61.811	2.308	1487
1512	2.765	34.559	2.659	27.564	36.732	45.491	61.462	2.316	1498

NISKIN BOTTLE DATA										TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L							
2	24.373	35.225	4.92	103.1	1.5	0.16	0.0	0.01	24.373	23.702	32.025	39.993	2		
22	24.074	35.200	4.96	103.4	0.5	0.14	0.0	0.01	24.069	23.774	32.105	40.080	22		
52	23.767	35.174	4.93	102.2	0.5		0.0	0.01	23.756	23.847	32.187	40.170	52		
101	23.470	35.209	4.93	101.7	0.0	0.12	0.0	0.01	23.449	23.963	32.311	40.302	101		
134	22.482	35.221	4.90	99.3	0.3	0.19	0.0	0.01	22.455	24.259	32.634	40.651	134		
168	21.243	35.209	4.82	95.5	0.6	0.17	0.2	0.19	21.210	24.597	33.008	41.058	168		
202	19.362	35.013	4.40	84.1	1.6	0.35	2.6	0.03	19.325	24.949	33.419	41.525	202		
252	17.343	34.830	4.57	84.0	2.9	0.41	3.8	0.02	17.300	25.313	33.851	42.020	252		
303	13.634	34.319	4.32	73.5	7.8		9.5	0.02	13.591	25.746	34.423	42.721	304		
403	9.950	34.110	3.99	62.7	21.4		18.8	0.01	9.903	26.274	35.101	43.541	404		
504	7.480	34.067	2.67	39.7	44.9		29.2	0.02	7.430	26.624	35.562	44.104	505		
603	5.785	34.062	1.70	24.3	70.1		36.7	0.01	5.733	26.845	35.863	44.482	606		
702	4.949	34.149	0.99	13.9	90.2		40.8	0.02	4.892	27.013	36.072	44.728	706		
794	4.498	34.263	0.66	9.1	102.9	3.05	42.9	0.01	4.436	27.154	36.234	44.910	799		
895	4.123	34.354	0.67	9.2	115.7	3.10	43.5	0.01	4.055	27.267	36.365	45.058	901		
998	3.822	34.429	0.83	11.3	121.7		43.3	0.02	3.747	27.358	36.470	45.178	1005		
1253	3.275	34.515	1.24	16.7	134.0	2.98	42.7	0.02	3.184	27.481	36.622	45.355	1252		
1498	2.767	34.561	1.47	19.5	146.7		42.2	0.03	2.661	27.565	36.733	45.492	1510		

MARATHON 2 STA. 14

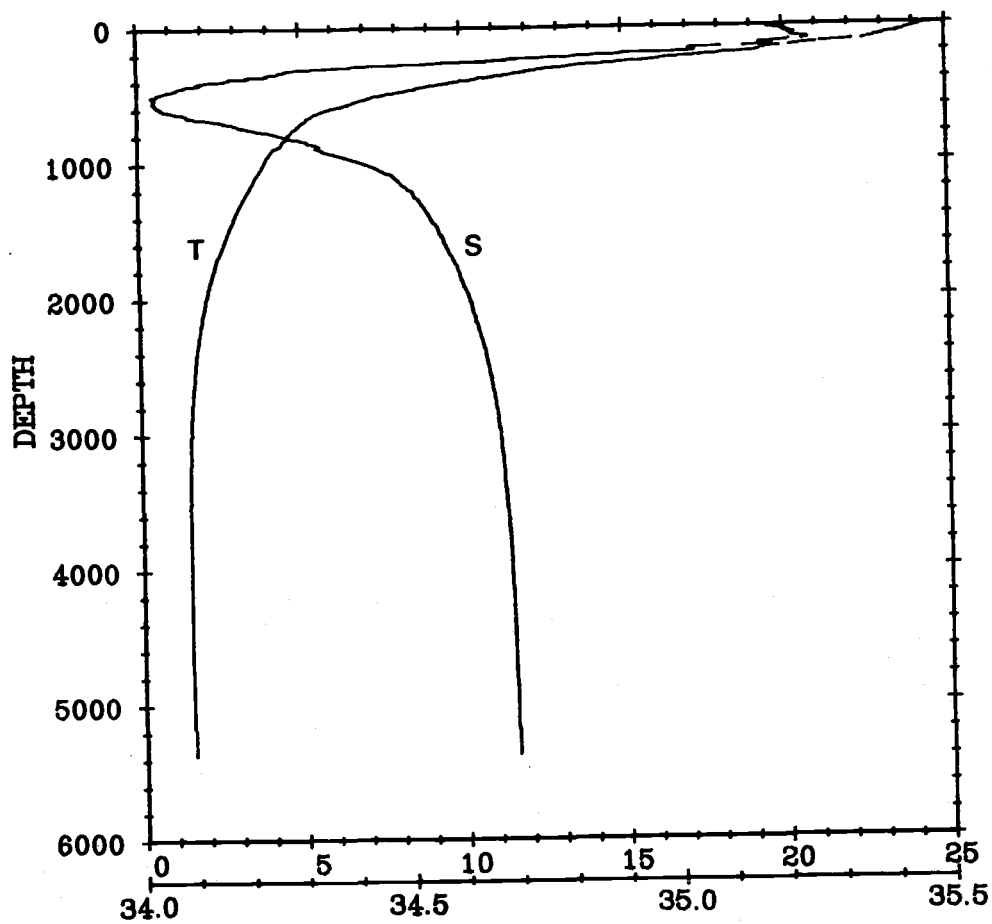
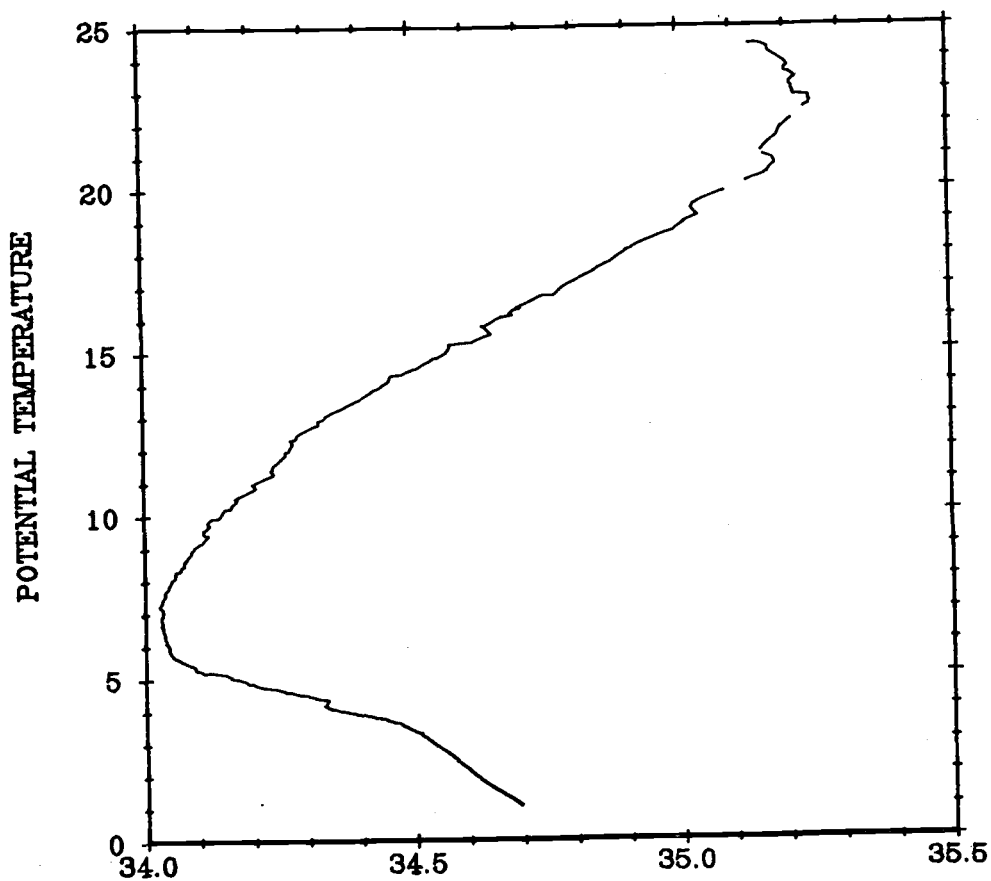


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
26 15.5N	153 35.7W	5/ 9/84	300	5392	140	10	24.4	21.1	1021.7

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C		DEG C				CL/TON		M
0	24.407	35.144	24.407	23.631	31.954	39.921	425.263	0.000	0
20	24.187	35.174	24.183	23.721	32.049	40.022	417.546	0.084	19
40	23.865	35.200	23.857	23.837	32.174	40.154	407.271	0.167	39
60	23.580	35.209	23.568	23.929	32.274	40.261	399.331	0.247	59
80	23.131	35.215	23.115	24.065	32.422	40.421	387.120	0.326	79
100	22.802	35.233	22.782	24.175	32.541	40.548	377.470	0.403	99
150	20.564	35.162	20.536	24.744	33.176	41.245	324.922	0.578	149
200	18.570	34.961	18.535	25.110	33.606	41.736	291.498	0.732	199
250	15.983	34.658	15.943	25.498	34.085	42.299	255.456	0.869	249
300	13.135	34.348	13.094	25.870	34.565	42.881	220.372	0.988	298
350	11.530	34.241	11.486	26.096	34.856	43.233	199.217	1.093	348
400	9.975	34.134	9.929	26.288	35.114	43.553	181.066	1.188	398
450	8.679	34.077	8.631	26.454	35.337	43.829	165.298	1.274	447
500	7.595	34.036	7.546	26.583	35.516	44.055	152.836	1.354	497
600	5.946	34.044	5.894	26.811	35.822	44.433	130.835	1.496	596
700	5.087	34.157	5.030	27.004	36.055	44.705	112.641	1.618	695
800	4.616	34.265	4.553	27.143	36.217	44.888	99.857	1.724	794
900	4.170	34.337	4.102	27.248	36.344	45.036	90.073	1.819	893
1000	3.878	34.414	3.803	27.340	36.450	45.155	81.751	1.905	992
1100	3.630	34.473	3.549	27.412	36.535	45.251	75.249	1.983	1091
1200	3.400	34.501	3.313	27.458	36.592	45.319	71.212	2.056	1190
1300	3.163	34.524	3.070	27.499	36.646	45.385	67.416	2.126	1289
1400	2.962	34.540	2.863	27.531	36.688	45.438	64.514	2.192	1388
1500	2.778	34.557	2.673	27.561	36.728	45.487	61.693	2.255	1486
1600	2.634	34.568	2.522	27.583	36.758	45.524	59.741	2.316	1585
1700	2.452	34.580	2.334	27.608	36.794	45.569	57.219	2.374	1684
1800	2.321	34.593	2.197	27.630	36.823	45.605	55.189	2.430	1782
1900	2.192	34.602	2.061	27.648	36.848	45.637	53.435	2.485	1881
2000	2.070	34.611	1.933	27.665	36.872	45.668	51.725	2.537	1979
2100	1.944	34.619	1.839	27.679	36.891	45.692	50.494	2.588	2078
2200	1.902	34.625	1.750	27.691	36.908	45.713	49.427	2.638	2176
2300	1.822	34.633	1.663	27.704	36.925	45.735	48.210	2.687	2275
2400	1.753	34.640	1.586	27.715	36.941	45.754	47.176	2.735	2373
2500	1.710	34.645	1.535	27.723	36.952	45.767	46.599	2.782	2471
2600	1.667	34.650	1.484	27.730	36.962	45.780	46.003	2.828	2569
2700	1.635	34.654	1.443	27.737	36.970	45.791	45.609	2.874	2668
2800	1.601	34.659	1.401	27.744	36.979	45.802	45.101	2.919	2766
2900	1.571	34.663	1.362	27.750	36.988	45.812	44.707	2.964	2864
3000	1.552	34.665	1.334	27.753	36.993	45.819	44.595	3.009	2962
3100	1.536	34.668	1.309	27.757	36.998	45.826	44.445	3.053	3060
3200	1.522	34.670	1.285	27.761	37.003	45.832	44.387	3.098	3158
3300	1.510	34.673	1.264	27.765	37.008	45.838	44.279	3.142	3256
3400	1.505	34.674	1.249	27.766	37.011	45.841	44.411	3.186	3354
3500	1.494	34.676	1.228	27.770	37.015	45.846	44.378	3.231	3452
3600	1.485	34.678	1.209	27.772	37.019	45.852	44.370	3.275	3549
3700	1.478	34.679	1.192	27.775	37.022	45.855	44.458	3.319	3647
3800	1.476	34.680	1.179	27.776	37.024	45.858	44.619	3.364	3745
3900	1.470	34.682	1.163	27.779	37.028	45.863	44.644	3.409	3842
4000	1.467	34.683	1.149	27.781	37.030	45.866	44.784	3.453	3940
4100	1.467	34.684	1.138	27.782	37.032	45.869	44.969	3.498	4038
4200	1.470	34.685	1.130	27.784	37.034	45.871	45.200	3.543	4135
4300	1.471	34.686	1.120	27.785	37.036	45.874	45.398	3.589	4233
4400	1.473	34.687	1.110	27.786	37.038	45.876	45.612	3.634	4330
4500	1.474	34.688	1.100	27.788	37.040	45.879	45.808	3.680	4427
4600	1.474	34.689	1.088	27.790	37.043	45.882	45.985	3.726	4525
4700	1.479	34.689	1.081	27.790	37.043	45.883	46.317	3.772	4622
4800	1.485	34.689	1.075	27.790	37.044	45.884	46.666	3.818	4719
4900	1.492	34.690	1.070	27.792	37.046	45.885	46.963	3.865	4817
5000	1.495	34.691	1.061	27.793	37.049	45.888	47.190	3.912	4914
5100	1.500	34.691	1.053	27.793	37.049	45.889	47.522	3.960	5011
5200	1.509	34.692	1.050	27.794	37.050	45.891	47.856	4.007	5108
5300	1.515	34.693	1.043	27.796	37.052	45.893	48.138	4.055	5205
5400	1.523	34.693	1.038	27.796	37.052	45.894	48.526	4.104	5302
5472	1.530	34.693	1.036	27.796	37.052	45.894	48.829	4.139	5372

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIG03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
10	24.423	35.186	4.92	103.2	0.0	0.12	0.0	0.03	24.421	23.658	31.980	39.947	10
56	23.673	35.209	5.00	103.5	0.0	0.11	0.0	0.03	23.661	23.901	32.243	40.229	56
106	22.366	35.229	4.89	98.9	0.2	0.13	0.0	0.03	22.345	24.296	32.674	40.693	106
156	19.690	35.050	4.42	85.1	1.2	0.32	2.3	0.06	19.651	24.892	33.352	41.448	156
207	17.128	34.795	4.50	82.4	2.9	0.43	4.6	0.04	17.093	25.335	33.881	42.057	207
308	12.597	34.290	5.26	87.6	7.8	0.67	8.0	0.03	12.555	25.931	34.648	42.984	309
407	9.876	34.119	4.36	63.4	20.3	1.31	17.9	0.02	9.829	26.292	35.124	43.566	409
507	7.816	34.046	3.58	53.6	37.8	1.81	25.7	0.02	7.765	26.559	35.482	44.011	509
606	6.130	34.045	2.00	28.8	62.9	35.1	0.03		6.076	26.788	35.790	44.394	609
706	5.124	34.152	0.94	13.2	86.8	2.92	40.9	0.02	5.066	26.995	36.045	44.694	710
808	4.590	34.273	0.60	8.3	101.8	3.06	43.1	0.02	4.526	27.152	36.227	44.899	813
907	4.194	34.337	0.65	8.9	110.9	3.07	43.5	0.02	4.124	27.246	36.340	45.031	913
1007	3.887	34.411	0.80	10.9	120.5	3.08	43.5	0.02	3.811	27.337	36.447	45.151	1014
1256	3.341	34.513	1.26	17.0	130.9	3.00	42.6	0.02	3.249	27.473	36.611	45.341	1266
1506	2.765	34.558	1.56	20.7	145.2		42.1	0.02	2.658	27.563	36.731	45.490	1519
1757	2.377	34.588	1.74	22.9	153.3		41.7	0.02	2.254	27.621	36.811	45.590	1773
2006	2.067	34.613	1.93	25.2	162.4		41.2	0.02	1.927	27.667	36.875	45.670	2026
2504	1.707	34.647	2.40	31.0	172.5		40.0	0.01	1.529	27.725	36.954	45.770	2532
3005	1.550	34.668	2.83	36.3	168.7		38.7	0.02	1.327	27.756	36.996	45.822	3043
3505	1.489	34.677	3.18	40.7	165.7	2.57	37.8	0.01	1.217	27.771	37.017	45.849	3554
4005	1.468	34.685	3.42	43.7	159.5	2.51	37.0	0.01	1.142	27.782	37.032	45.868	4066
4504	1.476	34.687	3.55	45.3	153.3		36.5	0.02	1.092	27.788	37.040	45.879	4578
5004	1.501	34.689	3.63	46.3			36.2	0.01	1.055	27.792	37.046	45.887	5092
5371	1.530	34.691	3.67	46.8	148.1		36.1	0.02	1.035	27.795	37.051	45.892	5470

MARATHON 2 STA. 15

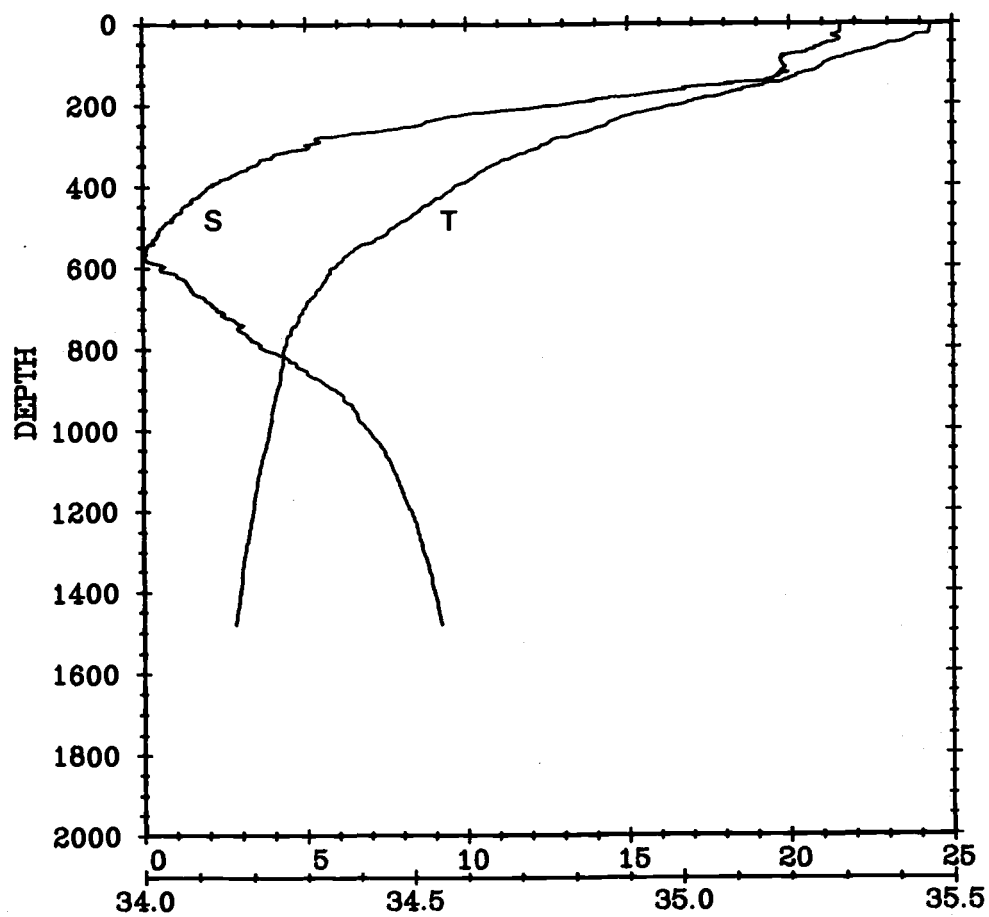
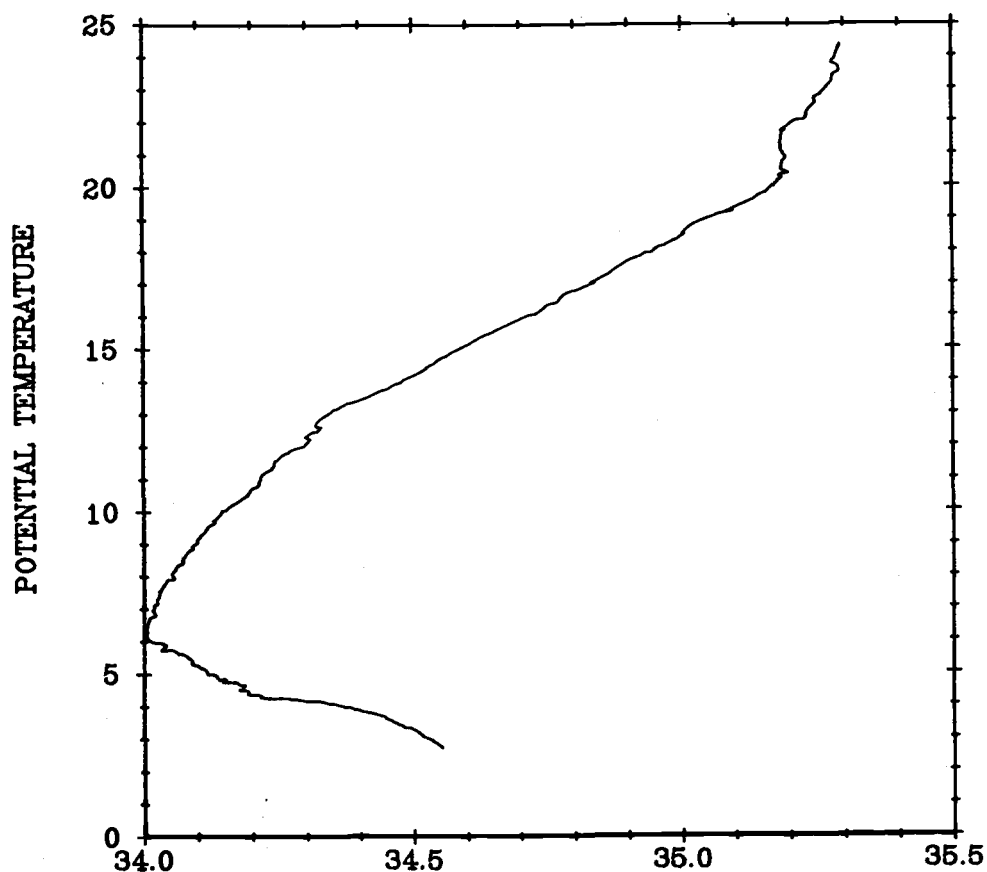


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
26 36.4N	153 16.4W	5/ 9/84	854	5322	110	10	23.3	20.6	1023.0

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C		DEG C				CL/TON		M
0	24.318	35.294	24.318	23.771	32.095	40.063	411.891	0.000	0
20	24.230	35.291	24.226	23.796	32.122	40.093	410.322	0.082	19
40	23.574	35.284	23.566	23.986	32.330	40.317	393.033	0.163	39
60	22.700	35.251	22.688	24.215	32.584	40.594	371.971	0.239	59
80	21.807	35.202	21.791	24.431	32.826	40.860	352.138	0.311	79
100	21.088	35.188	21.069	24.620	33.035	41.089	334.902	0.380	99
150	19.333	35.095	19.306	25.016	33.487	41.592	298.777	0.539	149
200	16.600	34.777	16.568	25.446	34.010	42.202	259.028	0.678	199
250	14.302	34.508	14.265	25.752	34.401	42.673	230.717	0.800	248
300	12.364	34.307	12.324	25.989	34.715	43.059	208.610	0.910	298
350	10.810	34.204	10.767	26.198	34.987	43.392	189.144	1.010	348
400	9.725	34.128	9.679	26.325	35.162	43.610	177.360	1.101	398
450	8.740	34.080	8.692	26.447	35.327	43.817	166.026	1.187	447
500	7.804	34.039	7.754	26.556	35.479	44.009	155.678	1.268	497
600	5.904	34.032	5.852	26.806	35.820	44.433	131.176	1.411	596
700	4.966	34.131	4.910	26.997	36.055	44.711	113.075	1.533	695
800	4.328	34.217	4.267	27.135	36.225	44.910	99.959	1.640	794
900	4.125	34.345	4.057	27.259	36.358	45.051	88.945	1.734	893
1000	3.872	34.410	3.797	27.338	36.448	45.153	81.976	1.820	992
1100	3.576	34.461	3.496	27.408	36.534	45.253	75.500	1.898	1091
1200	3.382	34.492	3.295	27.452	36.588	45.316	71.664	1.972	1190
1300	3.145	34.517	3.052	27.495	36.643	45.383	67.720	2.042	1289
1400	2.975	34.535	2.876	27.525	36.682	45.431	65.036	2.108	1388
1496	2.797	34.552	2.692	27.555	36.722	45.480	62.262	2.169	1482

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
11	24.234	35.288	4.92	102.9	2.3	0.13	0.0	0.00	3.84	24.232	23.792	32.118	40.088	11
51	22.950	35.258	4.90	100.2	1.8		0.0	0.00		22.940	24.148	32.509	40.513	51
101	20.860	35.191	5.06	99.6	1.7	0.14	0.0	0.00		20.841	24.684	33.106	41.166	101
134	19.584	35.099	5.13	98.6	2.4	0.14	0.1	0.06	3.73	19.559	24.954	33.416	41.514	134
167	17.942	34.933	5.09	94.7	2.8	0.22	1.0	0.23		17.913	25.243	33.760	41.908	167
202	16.028	34.712	4.99	89.3	4.0	0.37	3.7	0.01		15.996	25.528	34.112	42.324	202
252	13.894	34.461	5.04	86.3	6.5	0.58	6.9	0.01		13.858	25.801	34.465	42.753	253
302	11.930	34.273	4.92	80.8	11.2		11.3	0.00	4.30	11.891	26.046	34.789	43.149	303
401	9.620	34.126	4.70	73.3	20.7		17.2	0.00		9.574	26.341	35.182	43.635	403
500	7.762	34.039	3.85	57.5	37.0		24.5	0.00	3.51	7.712	26.562	35.487	44.018	502
599	6.005	34.050	2.02	29.0	64.9		35.3	0.00	1.31	5.952	26.808	35.816	44.425	602
694	4.987	34.133	1.10	15.4	87.2		40.6	0.00	0.25	4.931	26.996	36.053	44.708	698
784	4.413	34.200	0.72	9.9	103.2	3.03	42.9	0.00	0.09	4.352	27.113	36.198	44.879	789
884	4.181	34.327	0.65	8.9	111.4	3.09	43.5	0.00		4.113	27.239	36.334	45.025	890
986	3.878	34.408	0.78	10.6	119.2		43.6	0.01		3.804	27.335	36.445	45.150	993
1236	3.285	34.510	1.14	15.3	132.5	2.96	42.9	0.00		3.195	27.476	36.616	45.349	1246
1483	2.796	34.553	1.43	19.0	144.3		42.4	0.00		2.691	27.556	36.722	45.480	1496

MARATHON 2 STA. 16



LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
26 59.2N	152 57.7W	5/ 9/84	1454	5493	170	9	22.8	20.0	1022.4

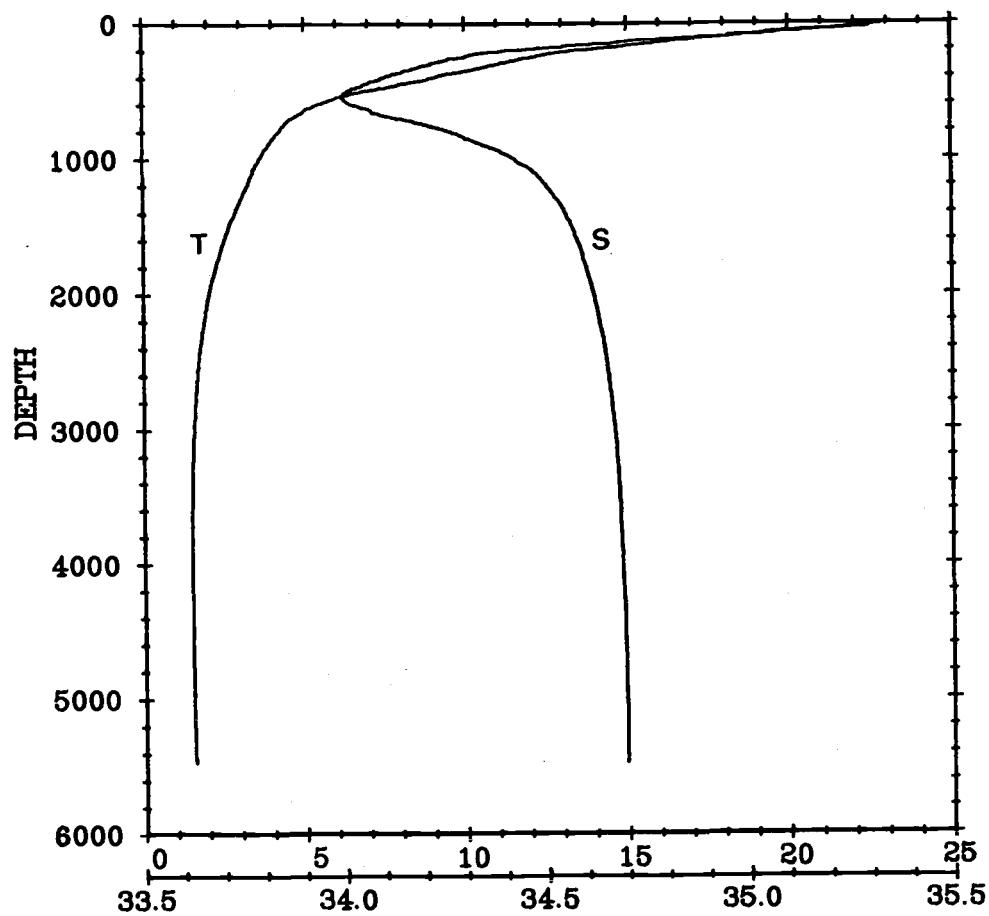
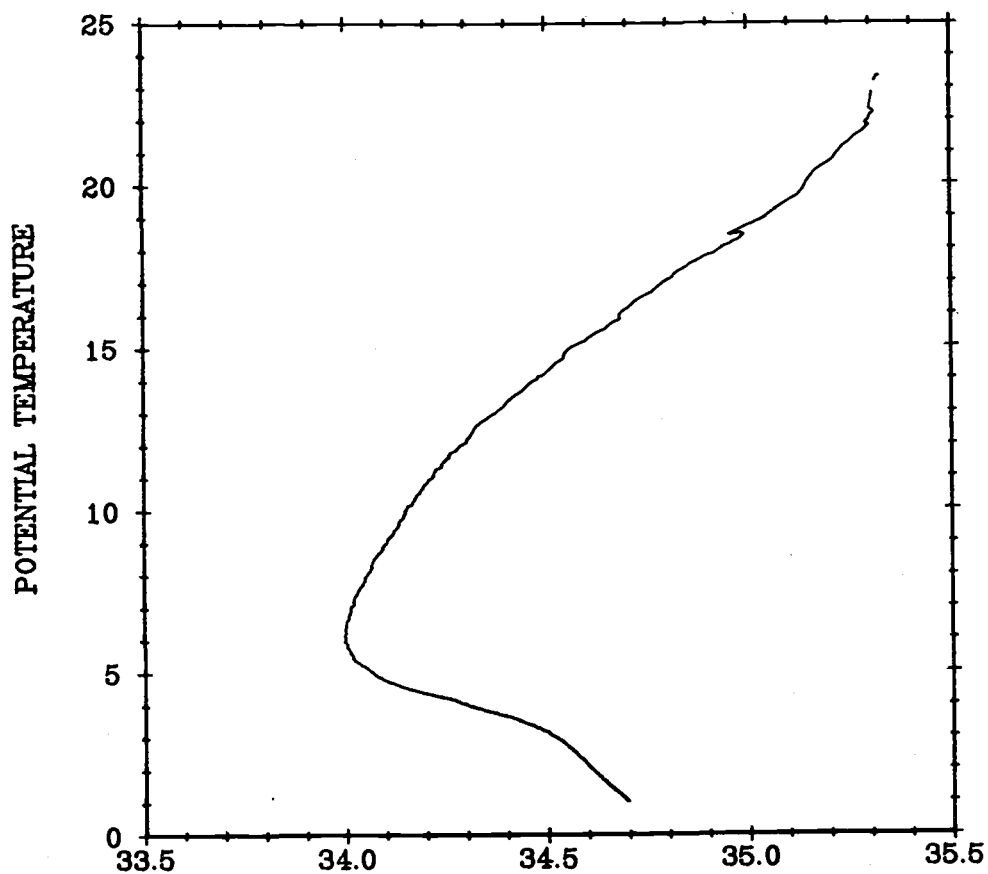
CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
0	23.229	35.328	23.229	24.118	32.470	40.465	378.824	0.000	0
20	22.259	35.303	22.255	24.378	32.758	40.779	354.842	0.073	19
40	21.521	35.270	21.513	24.560	32.962	41.003	338.256	0.143	39
60	20.135	35.153	20.124	24.847	33.291	41.372	311.629	0.208	59
80	19.087	35.049	19.073	25.041	33.519	41.632	293.800	0.268	79
100	18.269	34.957	18.252	25.178	33.683	41.822	281.422	0.326	99
150	15.818	34.660	15.795	25.534	34.125	42.345	248.837	0.458	149
200	13.710	34.438	13.682	25.820	34.491	42.785	222.574	0.576	199
250	12.184	34.298	12.151	26.016	34.748	43.099	204.727	0.683	248
300	11.137	34.219	11.100	26.150	34.926	43.317	192.701	0.782	298
350	10.139	34.156	10.098	26.277	35.095	43.527	181.196	0.876	348
400	9.089	34.102	9.045	26.408	35.273	43.747	168.996	0.963	397
450	8.133	34.056	8.087	26.520	35.428	43.943	158.510	1.045	447
500	7.067	34.013	7.020	26.639	35.596	44.158	146.992	1.122	497
600	5.477	34.018	5.427	26.847	35.881	44.515	126.742	1.258	596
700	4.687	34.122	4.632	27.021	36.093	44.762	110.355	1.377	695
800	4.246	34.257	4.185	27.176	36.269	44.957	96.021	1.480	794
900	3.900	34.343	3.834	27.281	36.390	45.095	86.447	1.571	893
1000	3.636	34.420	3.563	27.369	36.491	45.208	78.470	1.654	992
1100	3.395	34.469	3.316	27.432	36.567	45.294	72.796	1.730	1091
1200	3.236	34.500	3.150	27.472	36.615	45.351	69.363	1.801	1190
1300	3.030	34.525	2.938	27.512	36.666	45.411	65.784	1.868	1289
1400	2.846	34.546	2.748	27.545	36.709	45.464	62.710	1.932	1387
1500	2.665	34.562	2.561	27.574	36.748	45.512	59.995	1.994	1486
1600	2.517	34.575	2.407	27.598	36.780	45.552	57.841	2.053	1585
1700	2.383	34.587	2.266	27.619	36.809	45.588	55.894	2.110	1684
1800	2.257	34.597	2.134	27.638	36.834	45.620	54.128	2.165	1782
1900	2.138	34.606	2.008	27.655	36.859	45.650	52.489	2.218	1881
2000	2.043	34.615	1.906	27.671	36.879	45.676	51.104	2.270	1979
2100	1.955	34.623	1.811	27.684	36.898	45.700	49.844	2.320	2078
2200	1.895	34.629	1.743	27.694	36.912	45.717	49.048	2.370	2176
2300	1.820	34.636	1.661	27.706	36.928	45.737	47.966	2.418	2274
2400	1.762	34.642	1.595	27.716	36.941	45.754	47.146	2.466	2373
2500	1.714	34.647	1.539	27.724	36.953	45.768	46.505	2.512	2471
2600	1.674	34.651	1.491	27.731	36.962	45.780	46.023	2.559	2569
2700	1.641	34.655	1.449	27.737	36.970	45.791	45.617	2.605	2667
2800	1.612	34.659	1.412	27.743	36.978	45.800	45.250	2.650	2766
2900	1.583	34.662	1.374	27.748	36.985	45.810	44.943	2.695	2864
3000	1.561	34.666	1.343	27.753	36.993	45.818	44.648	2.740	2962
3100	1.540	34.669	1.313	27.758	36.999	45.826	44.429	2.784	3060
3200	1.526	34.671	1.289	27.761	37.003	45.832	44.372	2.829	3158
3300	1.510	34.674	1.264	27.766	37.009	45.839	44.208	2.873	3256
3400	1.502	34.675	1.246	27.767	37.012	45.843	44.295	2.917	3353
3500	1.494	34.677	1.228	27.770	37.016	45.847	44.307	2.962	3451
3600	1.488	34.679	1.212	27.773	37.019	45.852	44.344	3.006	3549
3700	1.483	34.680	1.197	27.775	37.022	45.855	44.463	3.050	3647
3800	1.476	34.682	1.179	27.778	37.026	45.860	44.477	3.095	3744
3900	1.474	34.683	1.167	27.779	37.028	45.863	44.636	3.139	3842
4000	1.470	34.684	1.152	27.781	37.031	45.866	44.761	3.184	3940
4100	1.471	34.685	1.142	27.783	37.033	45.869	44.962	3.229	4037
4200	1.474	34.686	1.134	27.784	37.035	45.871	45.194	3.274	4135
4300	1.474	34.687	1.123	27.786	37.037	45.874	45.377	3.319	4232
4400	1.476	34.688	1.113	27.787	37.039	45.876	45.591	3.365	4330
4500	1.479	34.689	1.105	27.788	37.041	45.879	45.822	3.411	4427
4600	1.482	34.689	1.096	27.789	37.042	45.880	46.121	3.457	4525
4700	1.483	34.690	1.085	27.791	37.044	45.883	46.316	3.503	4622
4800	1.485	34.691	1.075	27.792	37.046	45.885	46.526	3.549	4719
4900	1.488	34.692	1.066	27.793	37.048	45.888	46.754	3.596	4816
5000	1.494	34.692	1.060	27.794	37.048	45.889	47.103	3.643	4914
5100	1.498	34.693	1.051	27.795	37.050	45.891	47.347	3.690	5011
5200	1.505	34.693	1.046	27.796	37.051	45.892	47.715	3.737	5108
5300	1.513	34.694	1.041	27.797	37.052	45.894	48.032	3.785	5205
5400	1.524	34.694	1.039	27.797	37.053	45.894	48.476	3.834	5302
5500	1.536	34.694	1.038	27.797	37.053	45.894	48.939	3.882	5399
5574	1.546	34.694	1.038	27.797	37.053	45.894	49.305	3.919	5471

NISKIN BOTTLE DATA

DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
1	23.270	35.323	5.03	103.5	1.9	0.10	0.0	0.00	23.270	23.270	24.102	32.453	40.448	1
56	21.275	35.258	5.26	104.4	1.9	0.09	0.0	0.00	21.264	24.619	33.028	41.076	56	
107	18.084	34.927	5.40	100.8	2.4	0.15	0.1	0.00	18.065	25.201	33.713	41.857	107	
157	15.901	34.673	5.23	93.4	3.6	0.32	2.5	0.17	15.876	25.525	34.114	42.330	157	
207	13.677	34.430	5.14	87.6	6.7	0.58	6.9	0.01	13.647	25.820	34.493	42.788	207	
307	11.102	34.222	5.16	82.2	12.7	0.89	12.3	0.00	11.064	26.158	34.936	43.329	308	
407	9.034	34.107			24.0	1.32	18.9	0.00	8.989	26.421	35.288	43.764	409	
507	7.119	34.017	3.50	51.5	43.5	1.90	27.6	0.00	7.069	26.635	35.590	44.150	509	
607	5.414	34.025	1.91	27.0	71.8		37.0	0.00	5.363	26.860	35.897	44.533	610	
707	4.607	34.144	0.88	12.2	94.6	2.99	42.1	0.00	4.552	27.047	36.123	44.795	711	
808	4.202	34.276	0.45	6.2	109.7	3.15	44.0	0.00	4.140	27.196	36.291	44.981	813	
907	3.879	34.352	0.48	6.6	119.9	3.14	44.4	0.00	3.811	27.290	36.401	45.106	913	
1007	3.604	34.428	0.68	9.2	127.0	3.14	44.2	0.00	3.530	27.378	36.502	45.220	1014	
1257	3.092	34.518	1.12	15.0	137.0	3.04	43.3	0.00	3.002	27.500	36.651	45.393	1267	
1507	2.664	34.567	1.50	19.9	146.9		42.4	0.00	2.558	27.579	36.752	45.517	1520	
1757	2.304	34.597	1.73	22.7	154.8		41.8	0.00	2.182	27.634	36.828	45.611	1774	
2007	2.000	34.622			163.5		41.3	0.01	1.861	27.680	36.890	45.690	2027	
2506	1.705	34.650	2.46	31.8	169.2		40.0	0.00	1.527	27.727	36.956	45.772	2535	
3005	1.557	34.668	2.83	36.4	168.4		38.8	0.01	1.334	27.755	36.995	45.821	3043	
3496	1.496	34.678	3.17	40.6	165.5	2.59	37.9	0.00	1.225	27.771	37.017	45.848	3545	
3988	1.473	34.684	3.42	43.7	161.2	2.50	37.2	0.00	1.149	27.781	37.031	45.866	4048	
4486	1.480	34.689			152.8		36.6	0.02	1.098	27.789	37.041	45.879	4559	
4987	1.496	34.693	3.77	48.1	146.7	2.40	36.0	0.00	1.052	27.795	37.050	45.891	5075	
5466	1.545	34.694	3.74	47.7	144.3		35.9	0.02	1.037	27.797	37.052	45.894	5568	

MARATHON 2 STA. 17

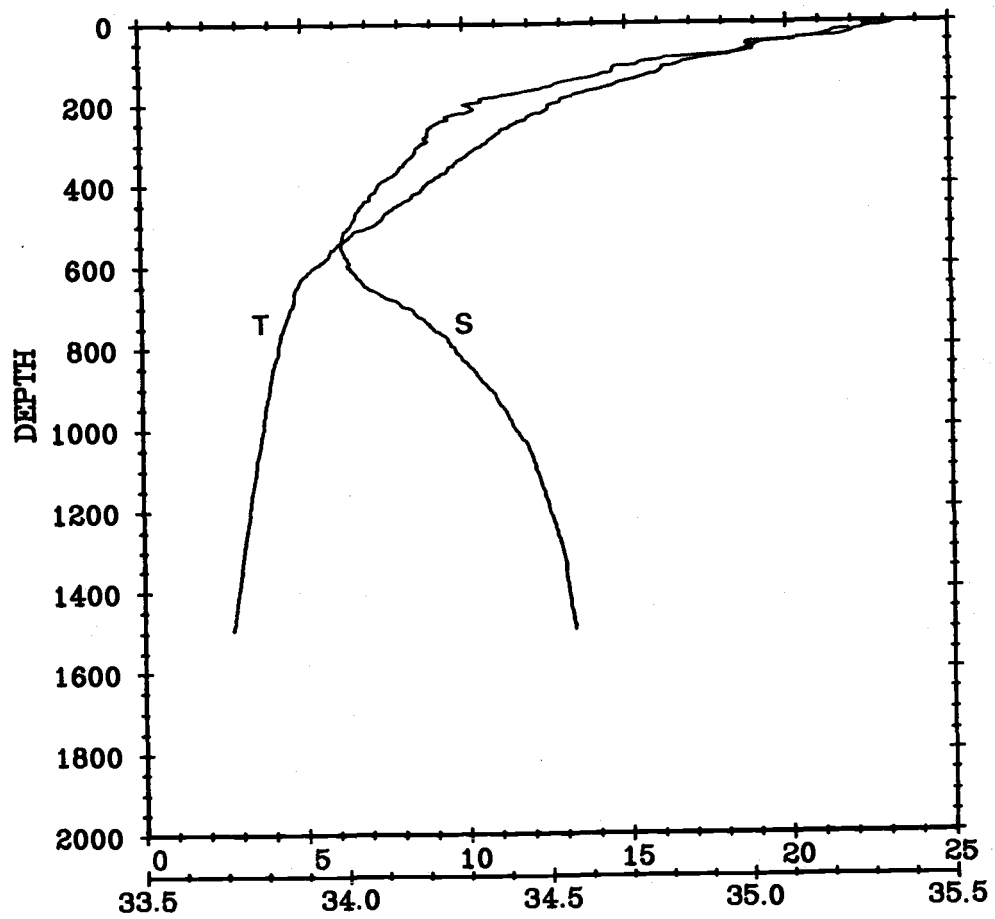
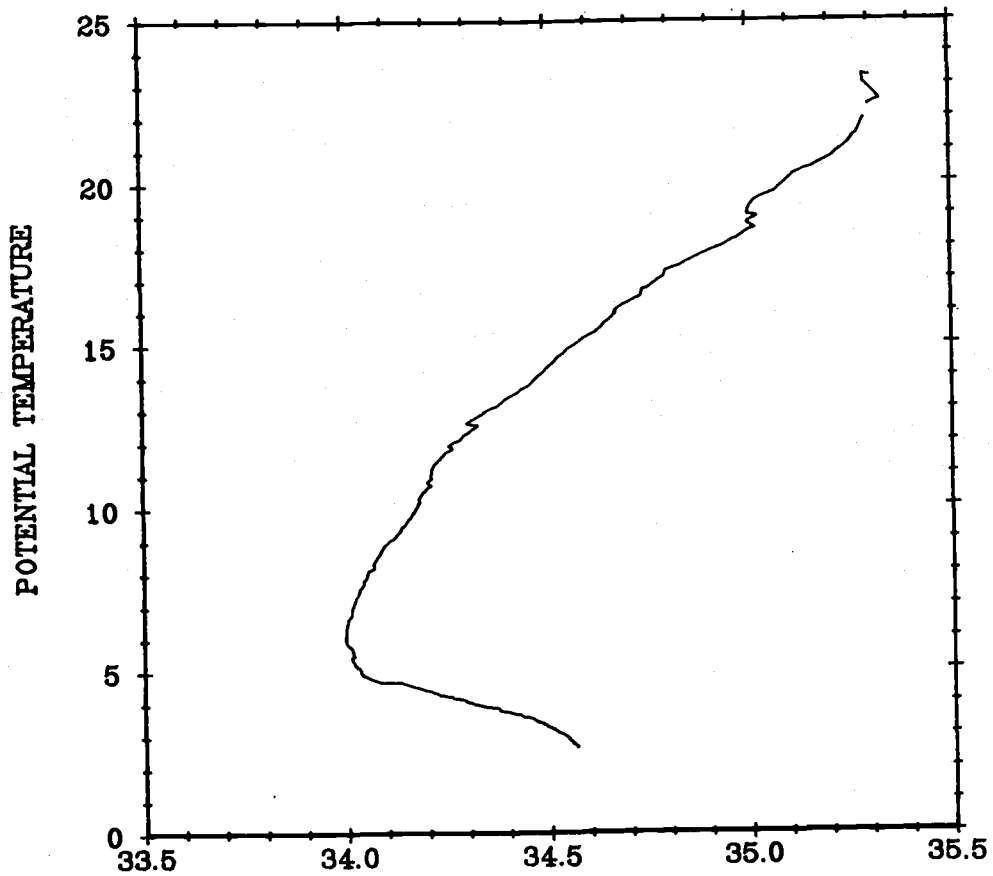


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
27 20.0N	152 41.9W	5/ 9/84	2054	5379	140	12	24.4	21.1	1024.0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	23.154	35.292	23.154	24.112	32.467	40.465	379.352	0.000	0
20	21.943	35.279	21.939	24.448	32.838	40.867	348.105	0.073	19
40	20.445	35.155	20.437	24.765	33.200	41.272	318.682	0.139	39
60	18.960	35.011	18.949	25.044	33.525	41.643	292.819	0.201	59
80	17.979	34.915	17.965	25.217	33.732	41.879	276.997	0.258	79
100	16.690	34.738	16.674	25.391	33.952	42.141	260.918	0.311	99
150	14.714	34.532	14.692	25.679	34.312	42.570	234.761	0.435	149
200	12.725	34.318	12.698	25.925	34.636	42.966	212.220	0.547	199
250	11.514	34.230	11.482	26.088	34.849	43.225	197.495	0.649	248
300	10.564	34.195	10.528	26.233	35.033	43.447	184.503	0.745	298
350	9.657	34.151	9.617	26.354	35.193	43.643	173.582	0.834	348
400	8.809	34.090	8.766	26.443	35.320	43.806	165.480	0.919	397
450	7.952	34.048	7.907	26.540	35.457	43.979	156.402	1.000	447
500	7.159	34.013	7.111	26.630	35.583	44.141	147.916	1.076	497
600	5.412	34.013	5.362	26.851	35.888	44.525	126.297	1.213	596
700	4.624	34.146	4.570	27.047	36.122	44.793	107.818	1.330	695
800	4.201	34.264	4.141	27.186	36.281	44.972	94.973	1.431	794
900	3.922	34.349	3.855	27.283	36.392	45.095	86.258	1.522	893
1000	3.717	34.415	3.644	27.357	36.475	45.188	79.783	1.605	992
1100	3.488	34.469	3.408	27.423	36.553	45.276	73.877	1.682	1091
1200	3.298	34.500	3.212	27.466	36.606	45.339	70.087	1.754	1190
1300	3.094	34.529	3.002	27.509	36.660	45.402	66.237	1.822	1289
1400	2.927	34.545	2.828	27.537	36.697	45.448	63.734	1.887	1387
1500	2.754	34.561	2.649	27.566	36.735	45.495	61.115	1.949	1486
1510	2.728	34.563	2.622	27.570	36.740	45.501	60.718	1.955	1496

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
2	23.093	35.291	5.06	103.8	0.7	0.07	0.0	0.00	23.093	24.129	32.486	40.485	2
23	21.312	35.255	5.26	104.5	0.7	0.08	0.0	0.00	21.308	24.605	33.013	41.060	23
53	20.014	35.110	5.37	104.1	1.3	0.11	0.0	0.00	20.004	24.846	33.294	41.379	53
103	16.720	34.735	5.56	101.0	2.9		0.0	0.01	16.703	25.382	33.941	42.130	103
136	15.333	34.599	5.16	91.1	3.9	0.37	3.5	0.09	15.312	25.595	34.204	42.440	136
169	13.890	34.457	5.21	89.2	6.1	0.54	6.3	0.02	13.866	25.796	34.450	42.748	169
203	12.644	34.307	5.15	85.9	7.9	0.69	8.4	0.01	12.617	25.932	34.646	42.980	203
254	11.311	34.220	5.12	82.9	11.8	0.86	11.7	0.00	11.279	26.118	34.886	43.271	255
304	10.340	34.186	5.02	79.6	16.3	1.05	14.6	0.00	10.304	26.265	35.074	43.497	305
405	8.630	34.081	4.52	68.9	27.5		20.2	0.00	8.587	26.463	35.348	43.842	407
505	6.656	34.005	3.22	46.9	49.9		29.3	0.00	6.609	26.688	35.665	44.245	507
604	5.242	34.022	1.84	25.9	72.7		37.2	0.01	5.192	26.878	35.923	44.568	607
704	4.623	34.144	0.82	11.4	93.5		41.9	0.00	4.568	27.045	36.120	44.792	708
805	4.210	34.260	0.44	6.1	108.1		43.7	0.00	4.149	27.182	36.277	44.967	810
904	3.916	34.355	0.45	6.1	119.1	3.18	44.1	0.00	3.848	27.289	36.397	45.101	910
1003	3.687	34.421	0.61	8.3	123.4	3.14	44.0	0.00	3.613	27.365	36.484	45.198	1010
1252	3.161	34.519	1.10	14.8	132.8		42.9	0.01	3.071	27.495	36.642	45.381	1262
1495	2.729	34.563	1.45	19.2	142.8	2.95	42.2	0.00	2.623	27.570	36.740	45.501	1508

MARATHON 2 STA. 18

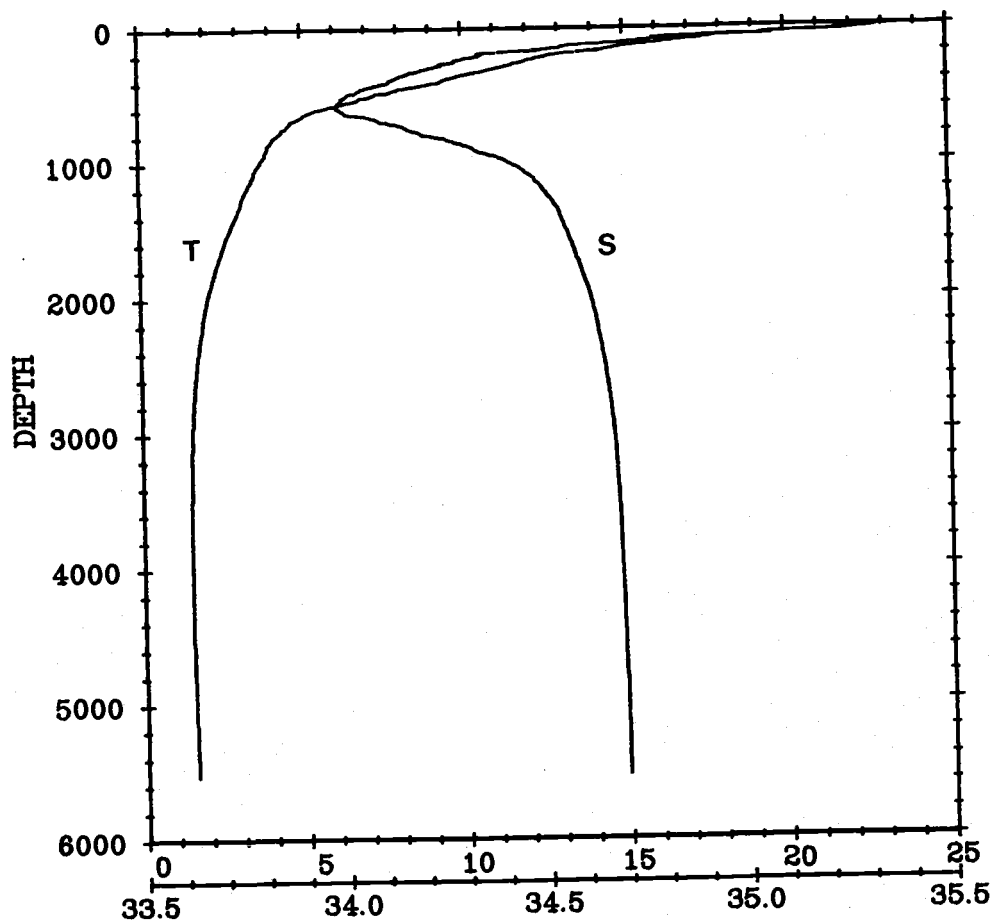
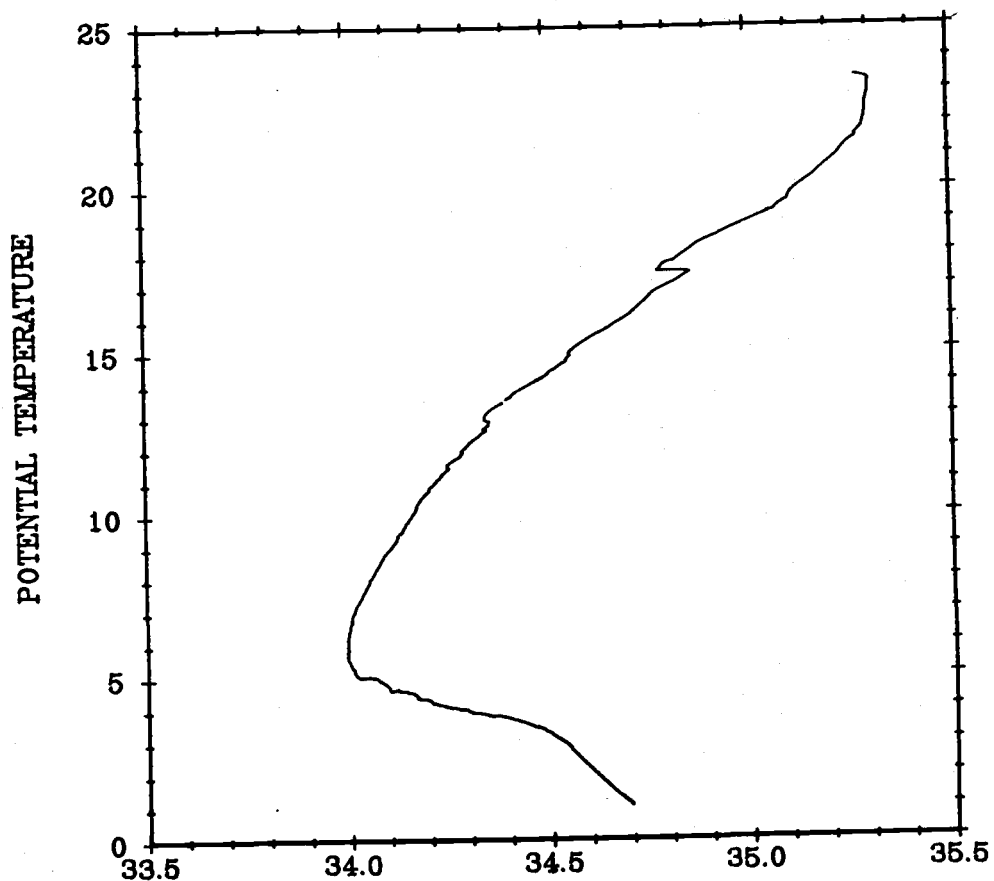


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
27 41.5N	152 23.6W	5/10/84	242	5513	170	7	25.6	22.2	1023.0

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP							
DB	DEG C	DEG C				CL/TCN		M
0	23.243	35.295	23.243	32.441	40.436	381.597	0.000	0
20	22.607	35.299	22.603	32.646	40.658	364.555	0.075	19
40	21.347	35.250	21.339	33.000	41.046	335.128	0.145	39
60	19.347	35.048	19.336	34.973	41.548	299.596	0.208	59
80	17.747	34.832	17.733	35.210	41.889	277.612	0.266	79
100	16.778	34.765	16.762	35.391	42.135	260.924	0.320	99
150	14.778	34.542	14.756	34.303	42.559	235.358	0.444	149
200	12.920	34.347	12.893	35.909	42.935	213.813	0.556	199
250	11.934	34.281	11.902	36.050	43.153	201.363	0.660	248
300	11.079	34.218	11.042	36.159	43.311	191.752	0.758	298
350	10.027	34.157	9.986	36.296	43.556	179.247	0.851	348
400	9.318	34.119	9.274	36.385	43.704	171.399	0.938	397
450	8.147	34.055	8.101	36.517	43.939	158.794	1.021	447
500	7.229	34.015	7.181	36.618	44.123	149.129	1.098	497
600	5.573	33.995	5.523	36.817	44.477	129.663	1.237	596
700	4.658	34.112	4.603	37.016	44.761	110.750	1.358	695
800	4.222	34.218	4.162	37.147	45.932	98.634	1.462	794
900	3.921	34.330	3.854	37.268	45.091	87.655	1.555	893
1000	3.704	34.418	3.631	37.361	45.193	79.409	1.639	992
1100	3.489	34.472	3.409	37.425	45.278	73.667	1.716	1091
1200	3.276	34.502	3.190	37.470	45.344	69.682	1.787	1190
1300	3.096	34.525	3.004	37.506	45.399	66.555	1.855	1289
1400	2.908	34.543	2.809	37.538	45.450	63.658	1.920	1387
1500	2.731	34.556	2.626	37.564	45.495	61.212	1.983	1486
1600	2.564	34.569	2.453	37.589	45.538	58.837	2.043	1585
1700	2.430	34.580	2.313	37.610	45.573	56.957	2.101	1683
1800	2.292	34.593	2.168	37.632	45.610	54.840	2.157	1782
1900	2.167	34.604	2.037	37.651	45.644	52.986	2.211	1881
2000	2.048	34.614	1.911	37.669	45.675	51.238	2.263	1979
2100	1.957	34.622	1.813	37.683	45.699	49.942	2.313	2077
2200	1.883	34.628	1.731	37.694	45.718	48.971	2.363	2176
2300	1.820	34.634	1.661	37.705	45.736	48.112	2.411	2274
2400	1.758	34.640	1.591	37.715	45.753	47.240	2.459	2373
2500	1.700	34.646	1.525	37.724	45.770	46.397	2.506	2471
2600	1.658	34.650	1.475	37.731	45.782	45.885	2.552	2569
2700	1.615	34.655	1.424	37.739	45.795	45.270	2.597	2667
2800	1.585	34.659	1.385	37.745	45.805	44.885	2.643	2765
2900	1.559	34.663	1.350	37.750	45.814	44.543	2.687	2863
3000	1.539	34.666	1.321	37.755	45.822	44.343	2.732	2961
3100	1.522	34.669	1.295	37.759	45.829	44.176	2.776	3059
3200	1.510	34.671	1.274	37.762	45.835	44.144	2.820	3157
3300	1.501	34.673	1.255	37.765	45.839	44.149	2.864	3255
3400	1.493	34.675	1.237	37.768	45.844	44.164	2.908	3353
3500	1.488	34.677	1.222	37.771	45.848	44.218	2.953	3451
3600	1.484	34.678	1.208	37.773	45.852	44.355	2.997	3549
3700	1.478	34.680	1.192	37.775	45.856	44.387	3.041	3647
3800	1.475	34.681	1.178	37.777	45.859	44.533	3.086	3744
3900	1.474	34.682	1.167	37.779	45.862	44.707	3.130	3842
4000	1.473	34.683	1.155	37.780	45.865	44.879	3.175	3939
4100	1.475	34.684	1.146	37.781	45.867	45.097	3.220	4037
4200	1.476	34.685	1.136	37.783	45.870	45.297	3.265	4135
4300	1.480	34.686	1.128	37.784	45.872	45.546	3.311	4232
4400	1.484	34.687	1.121	37.786	45.874	45.794	3.356	4329
4500	1.481	34.687	1.107	37.787	45.877	45.995	3.402	4427
4600	1.484	34.688	1.098	37.788	45.879	46.225	3.448	4524
4700	1.490	34.689	1.092	37.789	45.881	46.506	3.495	4621
4800	1.492	34.689	1.082	37.790	45.883	46.787	3.541	4719
4900	1.494	34.691	1.072	37.792	45.886	46.928	3.588	4816
5000	1.497	34.691	1.063	37.793	45.887	47.225	3.635	4913
5100	1.502	34.692	1.055	37.794	45.890	47.488	3.683	5010
5200	1.509	34.692	1.050	37.794	45.891	47.856	3.730	5107
5300	1.519	34.692	1.047	37.795	45.891	48.280	3.778	5204
5400	1.530	34.693	1.045	37.796	45.892	48.655	3.827	5301
5500	1.542	34.693	1.044	37.796	45.892	49.120	3.876	5398
5600	1.554	34.693	1.042	37.796	45.893	49.587	3.925	5495
5638	1.559	34.693	1.042	37.796	45.893	49.773	3.944	5532

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	23.739	35.316	5.00	103.7	1.3	0.07	0.0	0.00	23.739	23.959	32.298	40.280	1
57	19.135	35.024	5.42	103.3	1.9	0.10	0.0	0.00	19.125	25.009	33.485	41.597	57
107	16.211	34.704	5.37	96.5	2.7	0.24	1.1	0.24	16.194	25.476	34.053	42.259	107
158	14.471	34.514	5.08	88.1	4.8	0.47	5.1	0.02	14.448	25.717	34.359	42.626	158
207	12.870	34.359	5.24	87.8	7.7	0.64	7.9	0.01	12.842	25.928	34.633	42.958	207
307	10.691	34.193	4.96	79.2	15.2	1.00	13.9	0.00	10.654	26.209	35.004	43.413	308
405	8.561	34.080	4.48	68.2	28.3	1.45	20.5	0.00	8.518	26.473	35.362	43.858	407
505	6.776	34.007	3.34	48.8	48.4	2.00	28.8	0.00	6.729	26.673	35.645	44.219	508
605	5.115	34.042	1.59	22.3	78.5		38.4	0.00	5.066	26.908	35.960	44.610	608
704	4.488	34.149	0.84	11.6	98.1	3.00	42.2	0.00	4.434	27.064	36.145	44.824	708
804	4.094	34.261	0.45	6.2	113.8	3.13	44.0	0.00	4.033	27.195	36.295	44.991	809
903	3.856	34.351	0.45	6.1	122.2	3.17	44.3	0.00	3.789	27.291	36.403	45.109	909
1003	3.647	34.431	0.66	9.0	124.8	3.14	43.9	0.00	3.573	27.376	36.498	45.214	1010
1252	3.123	34.521	1.15	15.4	134.8	3.05	42.9	0.00	3.038	27.499	36.648	45.388	1262
1500	2.720	34.561	1.43	19.0	146.2		42.4	0.00	2.614	27.569	36.740	45.501	1513
1749	2.361	34.590	1.61	21.2	155.4		41.9	0.00	2.239	27.624	36.814	45.595	1766
1996	2.048	34.617	1.81	23.6	165.2		41.3	0.01	1.909	27.672	36.880	45.677	2016
2491	1.698	34.649	2.35	30.3	172.7		39.9	0.00	1.521	27.727	36.956	45.773	2520
2989	1.545	34.668	2.79	35.8	169.7		38.6	0.01	1.324	27.756	36.996	45.823	3027
3484	1.486	34.679	3.18	40.7	166.6	2.57	37.7	0.00	1.216	27.773	37.018	45.851	3533
3975	1.475	34.686	3.39	43.4	160.8	2.52	37.1	0.00	1.152	27.783	37.032	45.867	4036
4961	1.498	34.691	3.75	47.8	148.2	2.40	35.9	0.00	1.057	27.793	37.048	45.888	5048
5533	1.559	34.693	3.70	47.2	144.8		35.7	0.02	1.041	27.796	37.051	45.892	5638

MARATHON 2 STA. 19

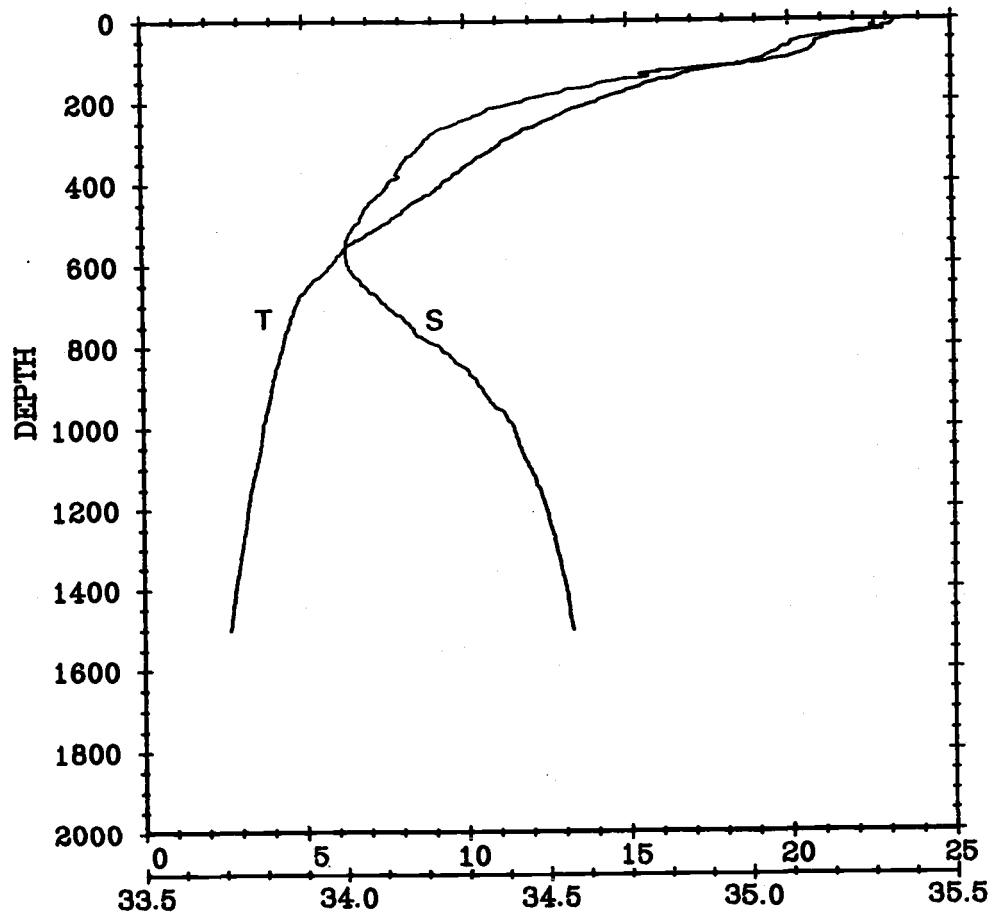
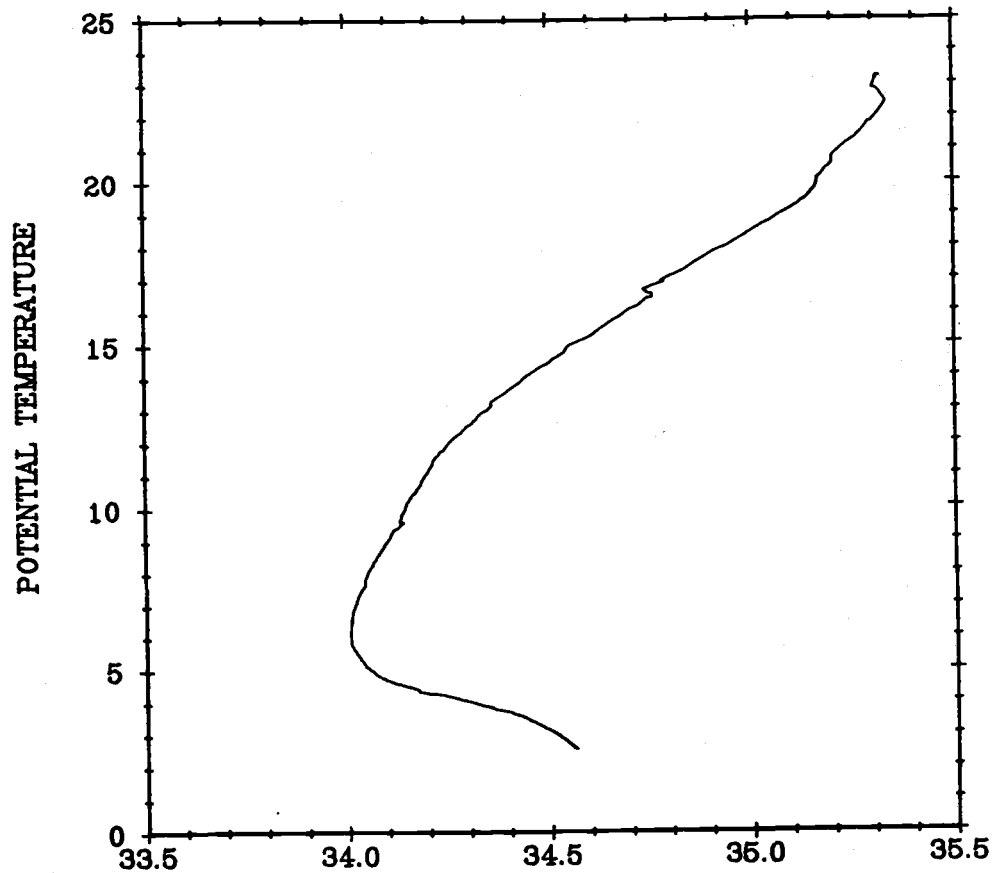


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
28 21.3N	152 0.4W	5/10/84	1024	5482	230	4	22.2	20.6	1024.0

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP					CL/TON		
DB	DEG C	DEG C						M
0	23.204	35.312	24.113	32.466	40.462	379.288	0.000	0
20	22.774	35.311	24.237	32.603	40.610	368.243	0.075	19
40	21.190	35.242	21.182	24.630	33.041	41.092	331.599	39
60	20.085	35.168	20.074	24.872	33.317	41.400	309.278	59
80	19.577	35.142	19.562	24.986	33.448	41.545	299.114	79
100	18.887	35.060	18.869	25.101	33.586	41.704	288.778	99
150	15.914	34.676	15.890	25.524	34.113	42.328	249.757	149
200	14.008	34.439	13.979	25.759	34.419	42.703	228.469	199
250	12.424	34.287	12.391	25.961	34.684	43.026	210.016	248
300	11.128	34.198	11.091	26.135	34.912	43.304	194.086	298
350	10.168	34.148	10.127	26.266	35.083	43.513	182.272	348
400	9.324	34.115	9.280	26.381	35.235	43.700	171.790	397
450	8.387	34.066	8.340	26.490	35.386	43.890	161.614	447
500	7.537	34.033	7.488	26.589	35.525	44.066	152.215	497
600	5.860	34.007	5.808	26.792	35.808	44.424	132.458	596
700	4.733	34.099	4.678	26.997	36.058	44.735	112.616	695
800	4.322	34.222	4.261	27.140	36.230	44.915	99.517	794
900	3.983	34.330	3.916	27.262	36.368	45.068	88.381	893
1000	3.705	34.412	3.632	27.356	36.475	45.188	79.865	992
1100	3.500	34.451	3.420	27.407	36.537	45.260	75.349	1091
1200	3.241	34.492	3.155	27.465	36.608	45.344	70.013	1190
1300	3.059	34.517	2.967	27.503	36.655	45.400	66.713	1289
1400	2.839	34.541	2.741	27.542	36.706	45.462	62.998	1387
1500	2.686	34.556	2.582	27.568	36.740	45.504	60.683	1486
1516	2.659	34.559	2.554	27.573	36.747	45.511	60.234	1502

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP	ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSLN	DEG C				DB
M	DEG C												
1	23.198	35.309	5.02	103.1	1.6	0.05	0.0	0.00	23.198	24.112	32.466	40.462	1
53	20.204	35.169	5.23	101.7	2.0	0.06	0.0	0.00	20.194	24.841	33.282	41.361	53
103	18.591	35.006	5.17	97.5	2.7		0.1	0.02	18.573	25.135	33.629	41.757	103
136	16.299	34.710	4.91	88.4	4.1	0.35	3.5	0.02	16.277	25.462	34.036	42.239	136
169	14.904	34.542	4.93	86.2	5.5	0.46	5.1	0.01	14.878	25.646	34.272	42.523	169
203	13.682	34.412	5.07	85.4	6.7	0.55	6.5	0.01	13.653	25.805	34.479	42.773	203
253	12.147	34.257	5.00	82.5	9.8	0.74	9.8	0.00	12.114	25.991	34.725	43.078	254
304	10.993	34.187	5.03	80.9	14.5	0.94	13.0	0.00	10.955	26.151	34.933	43.331	305
404	8.998	34.100	4.64	71.4	25.4		19.1	0.00	8.954	26.421	35.290	43.768	406
504	7.044	34.017	3.39	49.8	46.1		28.1	0.00	6.996	26.645	35.604	44.167	506
604	5.568	34.021	2.00	28.4	69.9		36.3	0.01	5.517	26.839	35.868	44.498	607
704	4.642	34.119	0.97	13.5	92.3		41.7	0.00	4.587	27.023	36.098	44.769	708
804	4.285	34.239	0.47	6.5	107.4		43.8	0.00	4.223	27.157	36.249	44.936	809
904	3.953	34.340	0.43	5.9	117.3	3.17	44.6	0.00	3.885	27.273	36.380	45.082	910
1004	3.686	34.420	0.66	9.0	124.9	3.11	44.2	0.00	3.612	27.364	36.484	45.198	1011
1254	3.132	34.511	1.00	13.4	137.5	43.5	0.01		3.042	27.491	36.639	45.380	1264
1501	2.659	34.559	1.37	18.1	147.6	2.96	43.0	0.00	2.554	27.573	36.747	45.511	1514

MARATHON 2 STA. 20

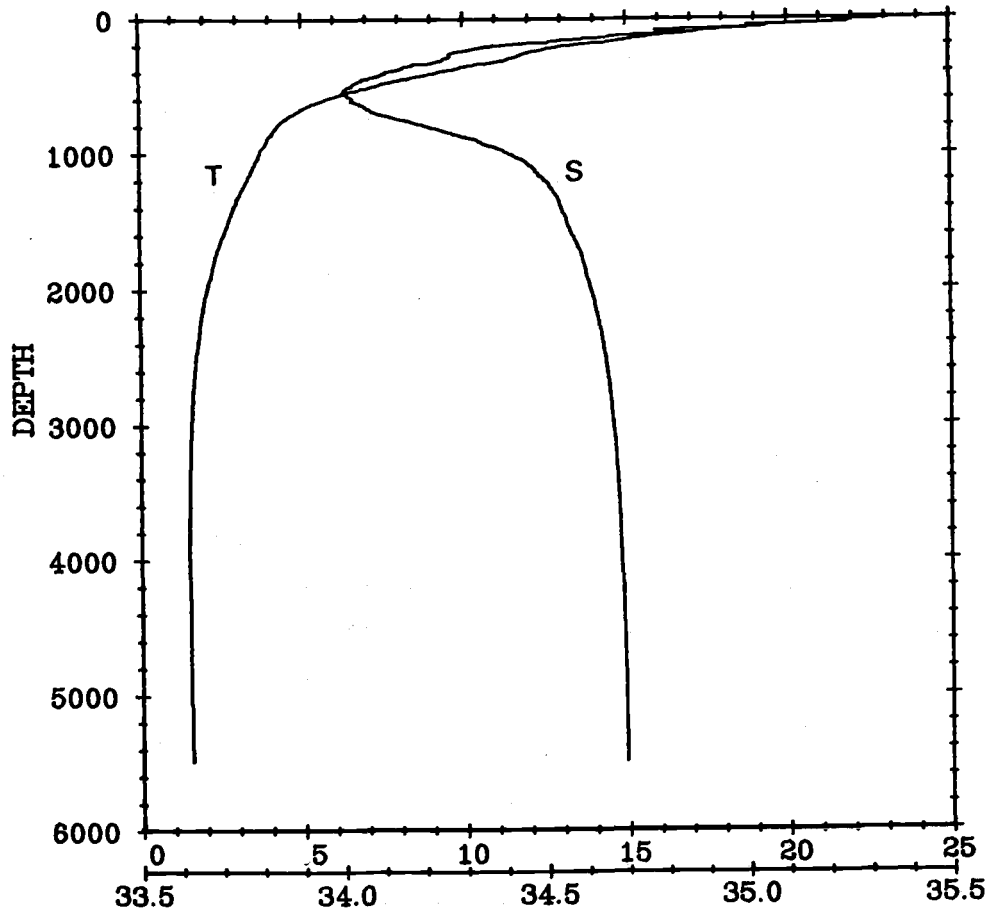
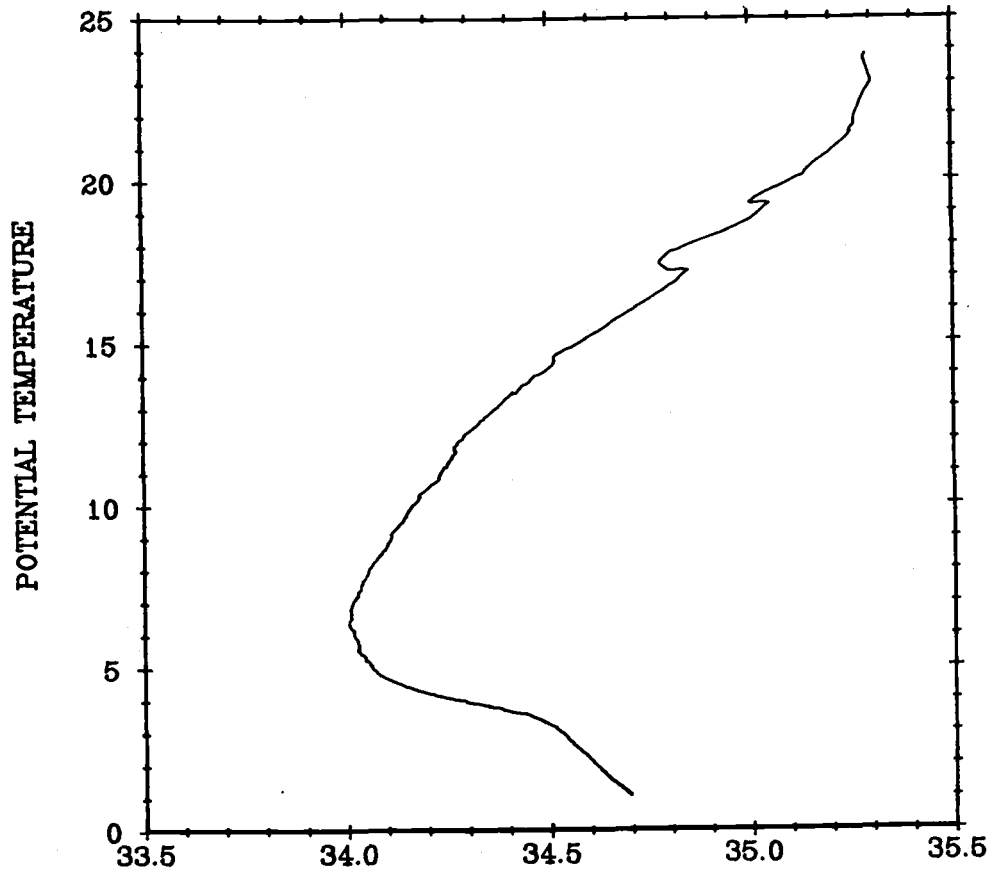


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
28 1.9N	152 6.0W	5/11/84	224	5544	200	3	25.0	21.1	1020.3
CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	23.517	35.292	23.517	24.006	32.352	40.340	389.433	0.000	0
20	22.402	35.278	22.398	24.318	32.694	40.712	360.512	0.075	19
40	21.076	35.215	21.068	24.640	33.056	41.109	330.585	0.144	39
60	19.341	35.040	19.330	24.968	33.438	41.543	300.029	0.207	59
80	18.207	34.895	18.193	25.145	33.653	41.794	283.830	0.266	79
100	17.200	34.811	17.183	25.326	33.869	42.042	267.137	0.321	99
150	15.242	34.603	15.219	25.618	34.231	42.470	240.641	0.448	149
200	13.262	34.392	13.234	25.875	34.564	42.875	217.123	0.562	199
250	12.035	34.280	12.002	26.030	34.769	43.125	201.293	0.667	248
300	11.413	34.254	11.375	26.127	34.891	43.272	195.038	0.767	298
350	10.176	34.169	10.135	26.280	35.097	43.527	180.860	0.861	348
400	9.197	34.112	9.153	26.399	35.259	43.729	169.977	0.948	397
450	8.197	34.059	8.151	26.513	35.418	43.930	159.251	1.031	447
500	7.294	34.022	7.246	26.615	35.562	44.113	149.536	1.108	497
600	5.720	34.026	5.669	26.824	35.846	44.469	129.240	1.247	596
700	4.807	34.086	4.752	26.979	36.046	44.710	114.476	1.369	695
800	4.242	34.212	4.182	27.141	36.234	44.924	99.314	1.476	794
900	3.931	34.330	3.864	27.267	36.376	45.079	87.772	1.570	893
1000	3.705	34.410	3.632	27.354	36.473	45.187	80.013	1.653	992
1100	3.516	34.468	3.430	27.420	36.549	45.271	74.209	1.731	1091
1200	3.310	34.499	3.224	27.464	36.604	45.336	70.301	1.803	1190
1300	3.100	34.524	3.008	27.504	36.655	45.397	66.676	1.871	1289
1400	2.905	34.538	2.807	27.534	36.695	45.447	63.991	1.937	1387
1500	2.752	34.553	2.647	27.560	36.729	45.489	61.680	2.000	1486
1600	2.608	34.565	2.497	27.583	36.760	45.527	59.653	2.060	1585
1700	2.450	34.581	2.332	27.609	36.795	45.570	57.122	2.119	1683
1800	2.317	34.593	2.193	27.630	36.823	45.606	55.141	2.175	1782
1900	2.213	34.601	2.082	27.646	36.845	45.633	53.762	2.229	1880
2000	2.101	34.610	1.963	27.662	36.868	45.662	52.178	2.282	1979
2100	1.996	34.619	1.851	27.678	36.890	45.689	50.642	2.334	2077
2200	1.916	34.626	1.764	27.690	36.906	45.711	49.529	2.384	2176
2300	1.845	34.632	1.685	27.701	36.922	45.730	48.573	2.433	2274
2400	1.790	34.638	1.623	27.711	36.935	45.746	47.795	2.481	2372
2500	1.735	34.643	1.560	27.719	36.947	45.761	47.068	2.528	2471
2600	1.690	34.648	1.506	27.727	36.957	45.775	46.450	2.575	2569
2700	1.647	34.653	1.455	27.735	36.968	45.788	45.841	2.621	2667
2800	1.615	34.657	1.415	27.741	36.976	45.798	45.434	2.667	2765
2900	1.590	34.660	1.381	27.746	36.983	45.807	45.182	2.712	2863
3000	1.572	34.663	1.354	27.750	36.989	45.814	45.016	2.757	2961
3100	1.551	34.666	1.323	27.755	36.995	45.822	44.799	2.802	3059
3200	1.535	34.669	1.298	27.759	37.001	45.829	44.644	2.847	3157
3300	1.522	34.671	1.275	27.762	37.005	45.834	44.596	2.891	3255
3400	1.510	34.674	1.254	27.766	37.010	45.840	44.484	2.936	3353
3500	1.505	34.675	1.239	27.768	37.013	45.844	44.613	2.981	3451
3600	1.496	34.677	1.220	27.771	37.017	45.849	44.607	3.025	3549
3700	1.489	34.678	1.202	27.773	37.020	45.853	44.697	3.070	3646
3800	1.486	34.679	1.189	27.775	37.022	45.856	44.844	3.115	3744
3900	1.483	34.681	1.175	27.777	37.025	45.860	44.918	3.159	3842
4000	1.482	34.682	1.164	27.779	37.028	45.863	45.092	3.204	3939
4100	1.483	34.683	1.154	27.780	37.030	45.865	45.295	3.250	4037
4200	1.480	34.685	1.140	27.783	37.033	45.869	45.362	3.295	4134
4300	1.484	34.685	1.132	27.783	37.034	45.871	45.682	3.341	4232
4400	1.488	34.686	1.125	27.785	37.036	45.873	45.931	3.386	4329
4500	1.487	34.687	1.112	27.786	37.038	45.875	46.096	3.432	4427
4600	1.492	34.688	1.106	27.788	37.040	45.878	46.361	3.479	4524
4700	1.492	34.689	1.094	27.789	37.042	45.880	46.540	3.525	4621
4800	1.497	34.689	1.087	27.790	37.043	45.882	46.874	3.572	4718
4900	1.501	34.690	1.079	27.791	37.045	45.884	47.121	3.619	4816
5000	1.504	34.691	1.070	27.792	37.047	45.886	47.349	3.666	4913
5100	1.510	34.691	1.063	27.793	37.047	45.887	47.701	3.713	5010
5200	1.515	34.692	1.056	27.794	37.049	45.890	47.965	3.761	5107
5300	1.521	34.692	1.049	27.795	37.050	45.891	48.317	3.809	5204
5400	1.531	34.693	1.046	27.796	37.051	45.892	48.674	3.858	5301
5500	1.541	34.693	1.043	27.796	37.052	45.893	49.101	3.907	5398
5600	1.555	34.693	1.043	27.796	37.051	45.892	49.606	3.956	5495
5628	1.558	34.693	1.043	27.796	37.052	45.893	49.730	3.970	5522

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
4	23.545	35.353	5.06	104.6	0.6	0.04	0.0	0.00		23.544	24.044	32.388	40.375	4
57	18.797	34.906	5.54	104.8	1.5	0.09	0.0	0.00		18.787	25.004	33.493	41.616	57
107	17.049	34.838	4.92	90.0	2.8	0.30	2.9	0.03		17.031	25.383	33.930	42.107	107
157	15.102	34.588	5.03	88.4	3.7	0.40	4.4	0.02		15.078	25.638	34.256	42.500	157
307	11.204	34.244	5.29	85.5	11.8	0.85	11.5	0.01		11.166	26.157	34.930	43.319	308
407	9.081	34.113	4.98	75.2	23.9	1.31	18.7	0.01		9.036	26.418	35.283	43.758	409
507	7.045	34.016	3.49	51.3	44.3	1.92	27.8	0.01		6.997	26.644	35.603	44.166	510
605	5.592	34.040	1.88	26.7	70.5		36.7	0.01		5.541	26.851	35.879	44.507	608
707	4.691	34.109	1.10	15.3	90.2	2.91	41.4	0.00		4.635	27.010	36.082	44.751	711
808	4.187	34.232	0.51	7.0	109.3	3.09	44.0	0.00		4.126	27.162	36.259	44.950	813
908	3.899	34.345	0.48	6.6	119.7	3.11	44.5	0.00		3.831	27.282	36.392	45.096	914
1008	3.672	34.419	0.65	8.8	124.7	3.13	44.2	0.00		3.598	27.365	36.485	45.200	1015
1258	3.217	34.513	1.15	15.4	134.1	3.05	43.2	0.00		3.126	27.485	36.629	45.365	1268
1507	2.728	34.555	1.34	17.8	145.8		42.9	0.00		2.621	27.563	36.734	45.495	1520
1757	2.309	34.594	1.67	21.9	156.6		42.2	0.01		2.187	27.631	36.824	45.607	1774
2007	2.065	34.613	1.80	23.5	164.1		41.7	0.02		1.925	27.667	36.875	45.671	2028
2507	1.700	34.653	2.37	30.6	169.1		40.3	0.00		1.522	27.730	36.959	45.776	2536
3006	1.553	34.665	2.79	35.8	172.4		39.0	0.01		1.330	27.753	36.993	45.819	3045
3504	1.495	34.677D	3.17	40.6	167.1	2.58	38.1	0.00		1.223	27.771	37.016	45.848	3554
4001	1.478	34.687	3.39	43.4	160.3	2.53	37.4	0.00		1.152	27.783	37.033	45.868	4062
4498	1.488	34.691			154.5		36.8	0.02		1.104	27.790	37.042	45.880	4573
4995	1.508	34.690	3.72	47.5	148.4	2.42	36.4	0.00		1.062	27.792	37.046	45.886	5084
5521	1.558	34.694	3.70	47.2	145.9		36.1	0.01		1.042	27.797	37.052	45.893	5626

MARATHON 2 STA. 21

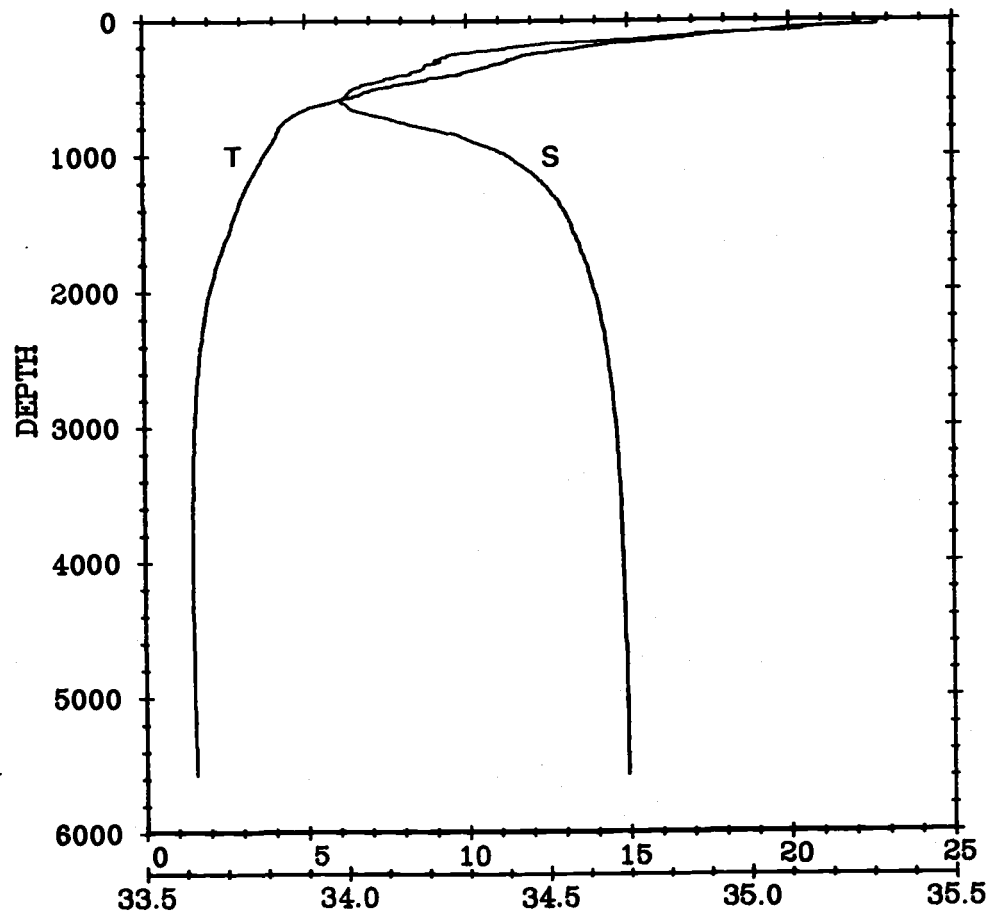
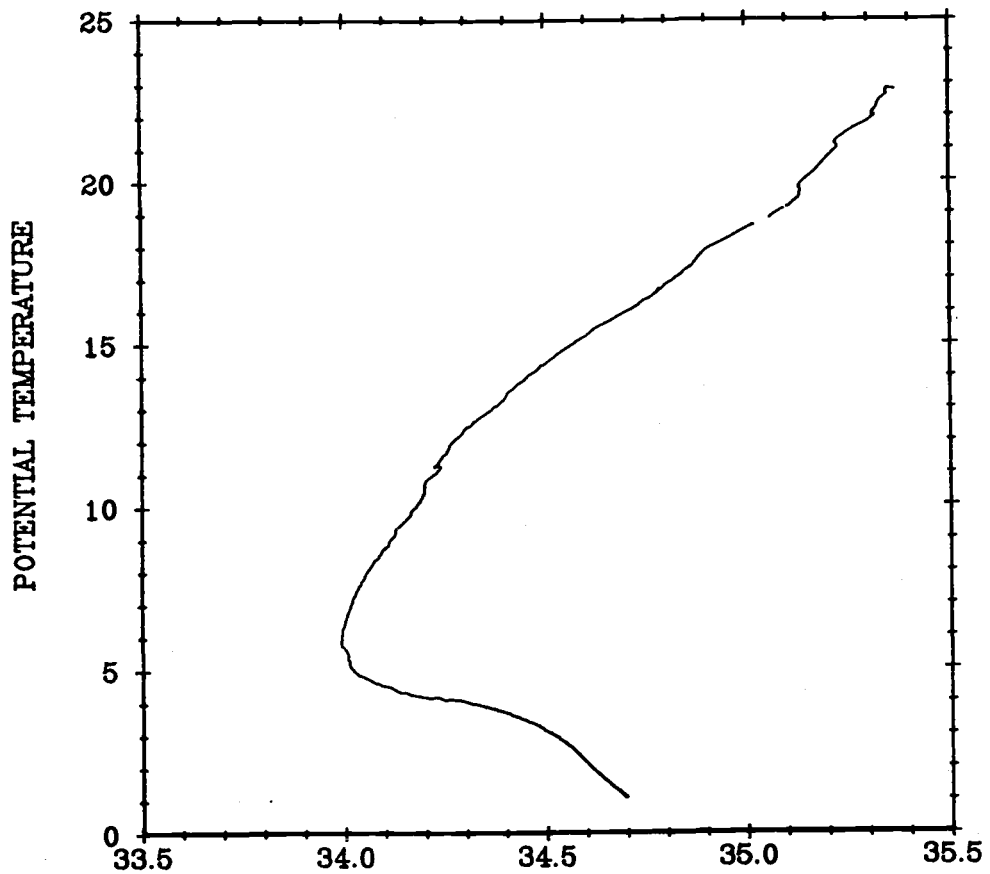


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
29 42.5N	152 0.3W	5/11/84	942	5502	310	7	21.7	20.6	1020.3

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	22.801	35.350	22.801	24.258	32.622	365.452	0.000	0
20	22.273	35.320	22.269	24.387	32.766	353.990	0.072	19
40	21.826	35.294	21.818	24.494	32.886	344.598	0.142	39
60	20.363	35.173	20.352	24.802	33.219	315.960	0.208	59
80	19.433	35.113	19.419	25.001	33.458	297.652	0.269	79
100	18.154	34.941	18.137	25.194	33.703	279.859	0.327	99
150	15.891	34.677	15.867	25.530	34.119	249.183	0.459	149
200	13.671	34.418	13.643	25.812	34.486	223.264	0.577	199
250	12.107	34.274	12.074	26.011	34.747	205.063	0.684	248
300	11.301	34.227	11.263	26.126	34.896	195.021	0.784	298
350	10.608	34.196	10.566	26.227	35.025	186.231	0.880	348
400	9.781	34.158	9.735	26.339	35.173	176.075	0.970	397
450	8.636	34.089	8.588	26.469	35.355	163.745	1.055	447
500	7.462	34.029	7.413	26.597	35.536	151.426	1.134	497
600	5.946	33.989	5.894	26.767	35.779	134.913	1.277	596
700	4.697	34.062	4.642	26.972	36.045	114.932	1.402	695
800	4.195	34.197	4.135	27.133	36.230	99.876	1.510	794
900	3.997	34.315	3.930	27.248	36.354	89.657	1.604	893
1000	3.721	34.398	3.650	27.343	36.461	81.112	1.690	992
1100	3.498	34.446	3.418	27.404	36.533	75.696	1.768	1091
1200	3.259	34.487	3.173	27.460	36.602	70.592	1.841	1190
1300	3.069	34.513	2.977	27.498	36.651	67.125	1.910	1289
1400	2.889	34.536	2.791	27.524	36.695	63.951	1.976	1387
1500	2.724	34.554	2.619	27.563	36.734	61.276	2.038	1486
1600	2.598	34.567	2.487	27.585	36.762	59.387	2.099	1585
1700	2.431	34.581	2.314	27.611	36.797	56.895	2.157	1683
1800	2.284	34.593	2.160	27.633	36.828	54.744	2.213	1782
1900	2.161	34.604	2.031	27.652	36.854	52.913	2.266	1880
2000	2.055	34.613	1.918	27.668	36.876	51.396	2.319	1979
2100	1.944	34.623	1.800	27.685	36.900	49.709	2.369	2077
2200	1.877	34.629	1.726	27.696	36.914	48.823	2.418	2176
2300	1.808	34.636	1.649	27.707	36.930	47.815	2.467	2274
2400	1.758	34.641	1.591	27.715	36.941	47.168	2.514	2372
2500	1.708	34.647	1.533	27.724	36.953	46.428	2.561	2471
2600	1.674	34.650	1.491	27.730	36.951	46.095	2.607	2569
2700	1.632	34.655	1.440	27.738	36.971	45.792	2.653	2667
2800	1.597	34.659	1.397	27.744	36.980	45.803	2.698	2765
2900	1.578	34.662	1.369	27.748	36.986	45.810	2.743	2863
3000	1.552	34.666	1.334	27.754	36.994	45.820	2.788	2961
3100	1.535	34.669	1.308	27.758	36.999	45.827	2.832	3059
3200	1.522	34.671	1.285	27.761	37.004	45.833	2.877	3157
3300	1.512	34.673	1.266	27.764	37.008	45.838	2.921	3255
3400	1.504	34.675	1.248	27.767	37.012	45.842	2.965	3353
3500	1.490	34.678	1.224	27.771	37.017	45.849	3.010	3451
3600	1.486	34.679	1.210	27.773	37.020	45.852	3.054	3549
3700	1.482	34.681	1.196	27.776	37.023	45.856	3.098	3646
3800	1.483	34.682	1.186	27.777	37.025	45.859	3.143	3744
3900	1.481	34.683	1.173	27.779	37.027	45.862	3.187	3842
4000	1.480	34.684	1.162	27.781	37.029	45.865	3.232	3939
4100	1.479	34.685	1.150	27.782	37.032	45.868	3.277	4037
4200	1.481	34.686	1.141	27.784	37.034	45.870	3.322	4134
4300	1.483	34.687	1.131	27.785	37.036	45.872	3.368	4232
4400	1.485	34.688	1.122	27.786	37.037	45.875	3.413	4329
4500	1.487	34.688	1.112	27.787	37.039	45.876	3.459	4427
4600	1.490	34.689	1.104	27.789	37.041	45.879	3.505	4524
4700	1.491	34.690	1.093	27.790	37.043	45.881	3.552	4621
4800	1.495	34.690	1.085	27.791	37.044	45.883	3.598	4718
4900	1.499	34.691	1.077	27.792	37.046	45.885	3.645	4816
5000	1.502	34.692	1.068	27.793	37.047	45.887	3.692	4913
5100	1.508	34.692	1.061	27.794	37.048	45.888	3.740	5010
5200	1.515	34.693	1.056	27.795	37.050	45.890	3.788	5107
5300	1.523	34.693	1.051	27.795	37.050	45.891	3.836	5204
5400	1.532	34.694	1.047	27.796	37.052	45.893	3.884	5301
5500	1.544	34.694	1.046	27.797	37.052	45.893	3.933	5398
5600	1.558	34.694	1.046	27.796	37.052	45.893	3.982	5495
5686	1.569	34.694	1.046	27.797	37.052	45.893	4.025	5578

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
1	22.668	35.304	5.08	103.4	1.1	0.04	0.0	0.00		22.668	24.261	32.629	40.639	1
56	20.429	35.179	5.33	104.1	1.8	0.05	0.0	0.00		20.418	24.788	33.223	41.296	56
106	18.097	34.923	5.41	101.0	2.3	0.10	0.0	0.00		18.079	25.195	33.706	41.850	106
156	15.923	34.678	5.01	89.5	4.3	0.35	3.5	0.07		15.898	25.524	34.112	42.327	156
205	13.656	34.419	5.16	87.9	6.8	0.53	6.6	0.01		13.627	25.816	34.490	42.786	205
304	11.196	34.214	5.38	86.9	12.2	0.80	10.9	0.00		11.158	26.135	34.909	43.298	305
403	9.495	34.140	4.90	76.2	22.7	1.19	17.1	0.00		9.449	26.372	35.219	43.677	405
504	7.281	34.021	3.77	55.7	42.6	1.92	26.3	0.00		7.232	26.615	35.563	44.116	506
605	5.737	33.993	2.47	35.2	66.0	2.38	34.3	0.00		5.685	26.796	35.818	44.440	608
706	4.607	34.076	1.20	16.6	92.1	2.87	41.1	0.00		4.552	26.993	36.070	44.743	710
807	4.190	34.207	0.53	7.3	109.2	3.09	43.9	0.00		4.129	27.142	36.238	44.930	812
906	4.008	34.311	0.34	4.7	119.4	3.15	44.6	0.00		3.940	27.244	36.349	45.049	912
1005	3.760	34.387	0.40	5.4	126.1	3.18	44.7	0.00		3.685	27.330	36.447	45.158	1012
1254	3.158	34.499	0.90	12.1	139.1	3.09	43.9	0.00		3.068	27.479	36.626	45.366	1264
1503	2.678	34.556	1.34	17.8	149.3	3.02	42.9	0.00		2.572	27.569	36.742	45.505	1516
1750	2.328	34.588	1.58	20.7	158.4	2.95	42.3	0.00		2.206	27.625	36.817	45.599	1767
1996	2.036	34.614	1.83	23.8	166.2	2.89	41.6	0.00		1.897	27.670	36.879	45.677	2016
2493	1.707	34.645	2.33	30.1	174.1	2.78	40.2	0.00		1.530	27.723	36.952	45.768	2522
2993	1.550	34.665	2.83	36.4	171.9	2.68	39.0	0.00		1.329	27.753	36.993	45.820	3031
3491	1.493	34.677	3.16	40.5	166.4	2.60	38.0	0.00		1.222	27.771	37.016	45.848	3540
3985	1.484	34.683	3.38	43.2	161.2	2.55	37.4	0.00		1.160	27.780	37.029	45.864	4046
4490	1.487	34.687	3.44	43.9			36.7	0.02		1.104	27.787	37.039	45.877	4564
4994	1.505	34.689	3.57	45.5	154.8	2.48	36.7	0.00		1.060	27.792	37.046	45.886	5083
5579	1.569	34.691	3.74	47.7	149.3	2.48	36.2	0.01		1.045	27.794	37.049	45.890	5686

MARATHON 2 STA. 22

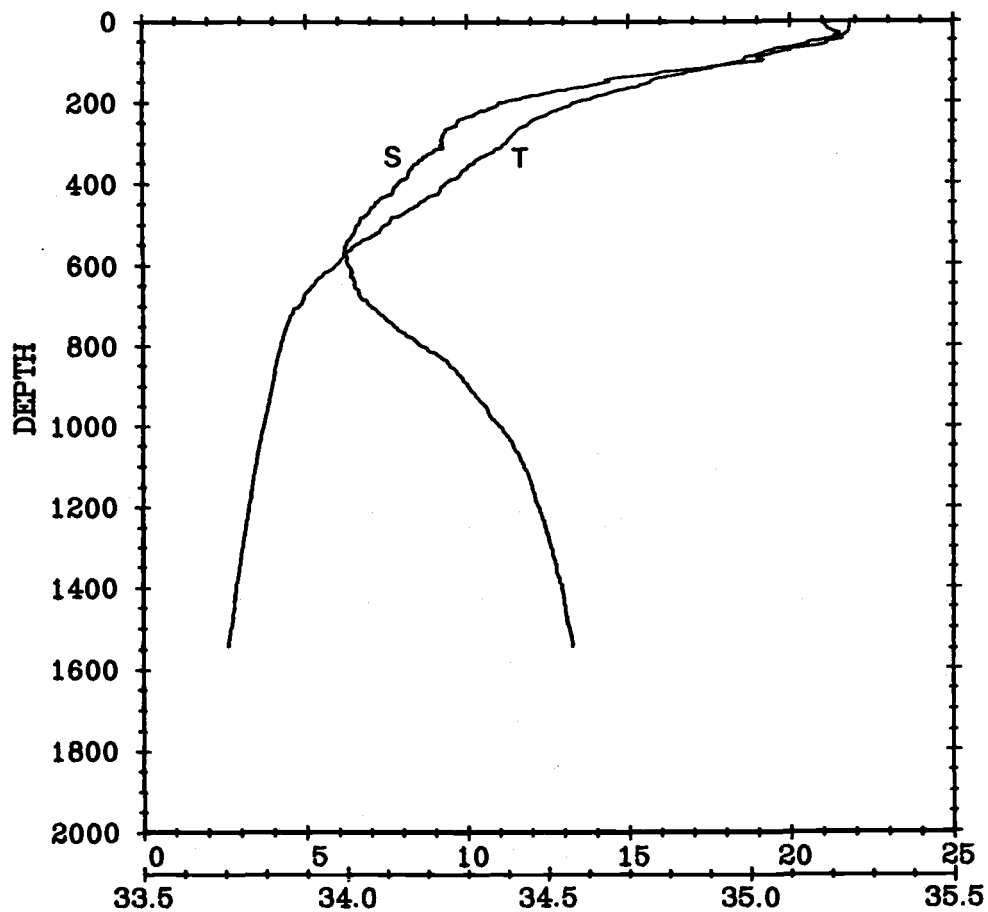
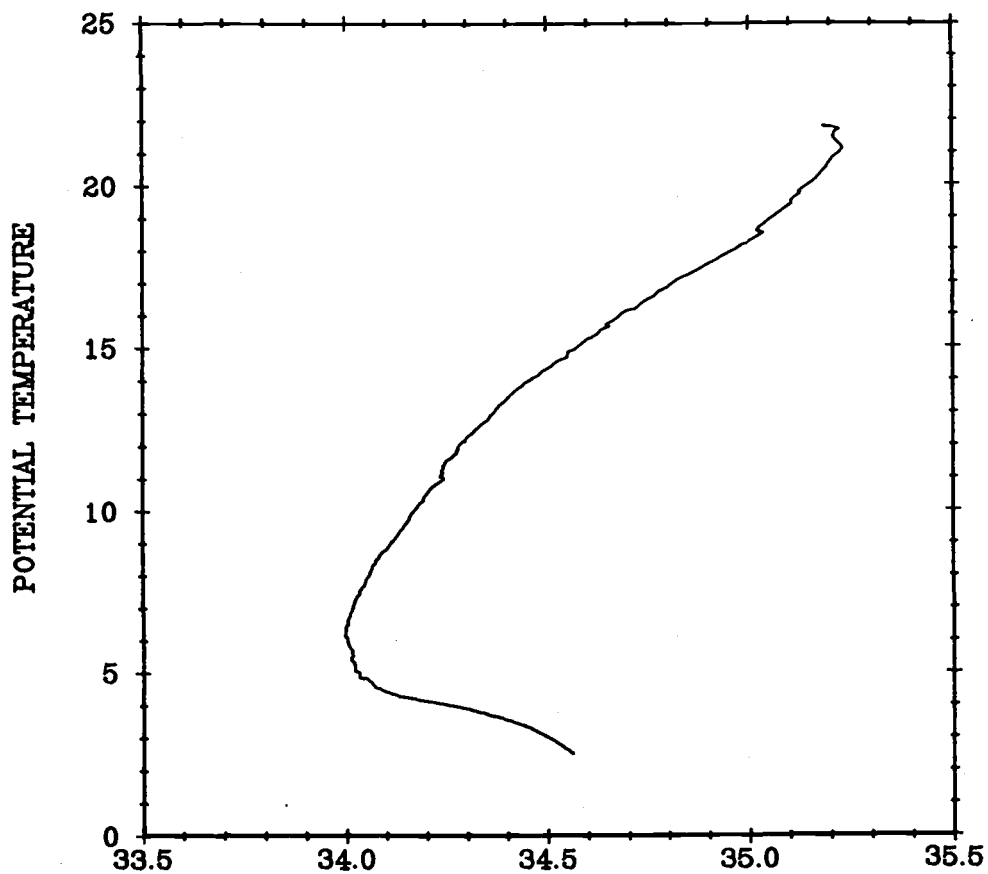


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
29 2.8N	152 0.1W	5/12/84	1312	5611	50	20	20.0	17.8	1017.3

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	21.820	35.188	21.820	24.413	32.806	40.840	350.723	0.000	0
20	21.796	35.198	21.792	24.428	32.822	40.857	350.056	0.070	19
40	21.328	35.215	21.320	24.571	32.979	41.026	337.165	0.139	39
60	20.241	35.163	20.230	24.827	33.268	41.345	313.587	0.204	59
80	19.118	35.067	19.104	25.047	33.524	41.635	293.250	0.265	79
100	18.352	35.000	18.335	25.190	33.692	41.827	280.270	0.322	99
150	15.651	34.640	15.628	25.556	34.154	42.379	246.684	0.454	149
200	13.425	34.395	13.397	25.845	34.528	42.832	220.092	0.570	199
250	11.960	34.278	11.928	26.042	34.784	43.144	202.060	0.676	248
300	11.207	34.236	11.170	26.150	34.923	43.312	192.689	0.775	298
350	10.198	34.177	10.157	26.293	35.099	43.528	180.642	0.868	348
400	9.285	34.131	9.340	26.383	35.235	43.697	171.594	0.956	397
450	8.540	34.075	8.493	26.474	35.363	43.861	163.295	1.040	447
500	7.539	34.030	7.490	26.586	35.522	44.063	152.466	1.119	497
600	5.947	34.003	5.895	26.778	35.790	44.402	133.888	1.262	596
700	4.911	34.055	4.756	26.954	36.021	44.585	116.825	1.387	695
800	4.222	34.182	4.162	27.119	36.214	44.905	101.306	1.496	794
900	3.960	34.298	3.893	27.239	36.346	45.048	90.484	1.592	893
1000	3.702	34.377	3.629	27.328	36.448	45.162	82.422	1.679	992
1100	3.457	34.439	3.378	27.402	36.534	45.259	75.736	1.758	1091
1200	3.258	34.474	3.172	27.449	36.592	45.327	71.541	1.831	1190
1300	3.051	34.505	2.969	27.493	36.646	45.390	67.621	1.901	1288
1400	2.862	34.531	2.764	27.532	36.695	45.450	64.003	1.967	1387
1500	2.728	34.548	2.623	27.558	36.728	45.490	61.765	2.030	1486
1558	2.600	34.561	2.492	27.580	36.757	45.525	59.624	2.065	1543

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
1	21.783	35.126	5.10	102.1	1.9	0.06	0.0	0.00	21.782	24.376	32.771	40.807	3
51	20.438	35.183	5.31	103.7	2.1	0.10	0.0	0.00	20.428	24.789	33.224	41.296	53
102	18.370	35.010	5.33	100.1	2.7	0.12	0.0	0.01	18.352	25.193	33.695	41.829	102
136	16.334	34.712	5.39	97.1	3.7	0.22	1.0	0.28	16.312	25.455	34.028	42.230	136
169	14.372	34.496	5.00	86.5	6.7	0.52	5.8	0.02	14.347	25.725	34.371	42.641	169
201	13.148	34.367	5.21	87.9	7.9	0.60	7.3	0.01	13.120	25.979	34.573	42.987	201
243	11.971	34.273	5.40	88.7	10.7	0.71	9.2	0.01	11.939	26.036	34.778	43.136	244
281	11.382	34.246	5.44	88.2	12.0	0.78	10.4	0.01	11.346	26.126	34.891	43.273	282
385	9.724	34.182	4.93	77.1	20.2	1.13	15.9	0.01	9.680	26.367	35.203	43.651	387
481	7.768	34.042	4.20	62.8	36.4	1.66	23.5	0.00	7.720	26.563	35.488	44.019	483
578	6.134	33.998	2.80	40.3	58.9	2.27	32.3	0.00	6.083	26.750	35.753	44.357	581
673	5.055	34.031	1.72	24.1	79.0	2.72	38.4	0.00	5.000	26.907	35.962	44.615	677
770	4.326	34.133	0.84	11.6	100.0	3.02	42.6	0.00	4.267	27.069	36.159	44.846	775
869	3.992	34.285	0.35	4.8	115.9	3.18	44.4	0.00	3.927	27.225	36.311	45.031	875
964	3.736	34.362	0.32	4.4	125.0	3.20	44.9	0.00	3.665	27.313	36.430	45.143	971
1253	3.127	34.496	0.77	10.3	137.1		44.1	0.01	3.037	27.479	36.628	45.369	1263
1544	2.596	34.562	1.36	18.0	150.4	2.98	42.8	0.00	2.488	27.581	36.758	45.526	1558

MARATHON 2 STA. 23

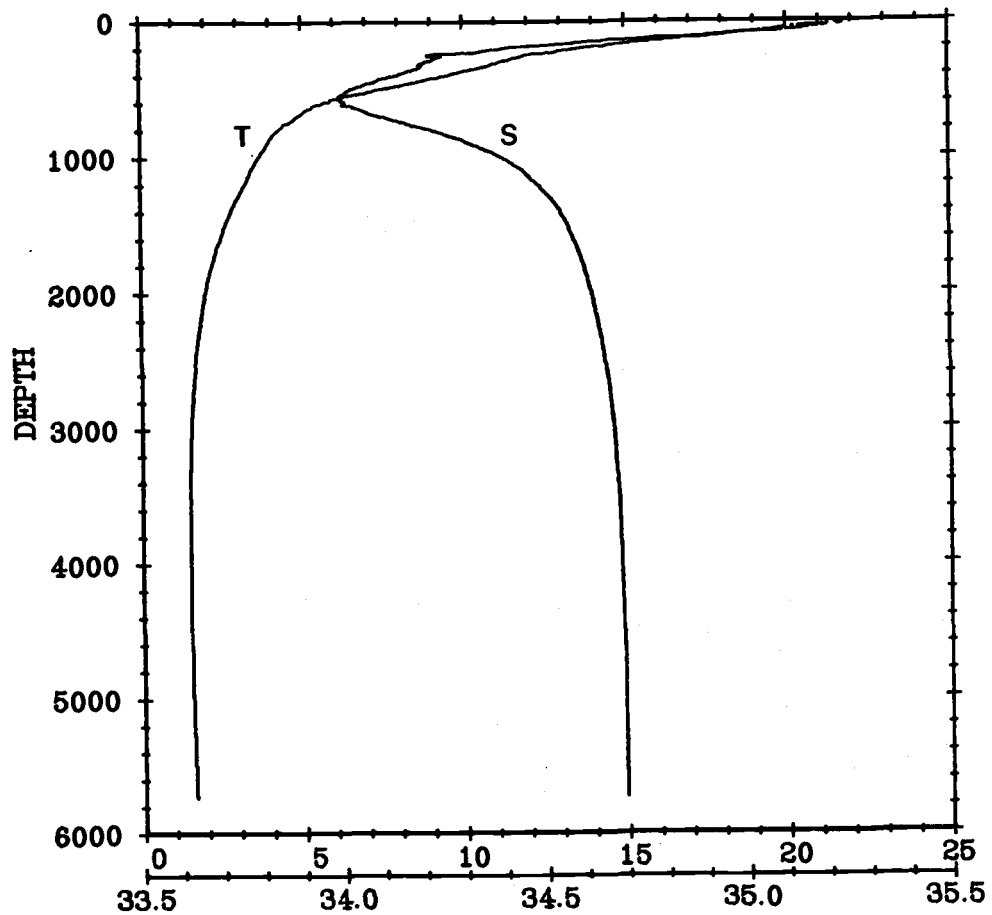
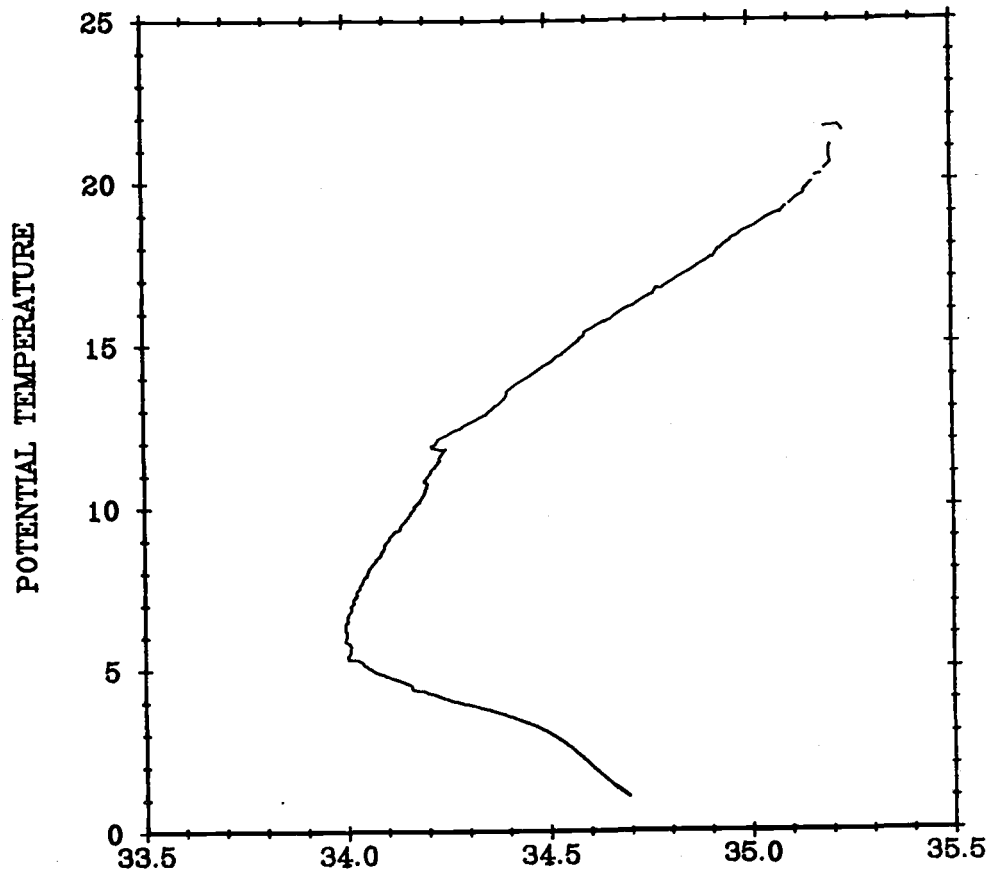


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
29 21.3N	151 59.8W	5/12/84	2036	5363	40	20	20.0	16.7	1021.0

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	21.710	35.209	21.710	24.459	32.856	40.892	346.283	0.000
20	21.738	35.221	21.734	24.462	32.857	40.893	346.850	0.069
40	20.864	35.202	20.856	24.688	33.110	41.170	326.030	0.137
60	19.911	35.151	19.900	24.904	33.356	41.443	306.134	0.200
80	19.155	35.080	19.141	25.047	33.523	41.633	293.211	0.260
100	18.285	34.965	18.268	25.180	33.685	41.823	281.220	0.317
150	15.855	34.659	15.831	25.524	34.115	42.333	249.714	0.450
200	13.699	34.414	13.671	25.803	34.476	42.770	224.113	0.568
250	12.040	34.229	12.007	25.989	34.728	43.086	207.131	0.676
300	11.220	34.213	11.183	26.130	34.903	43.291	194.611	0.777
350	10.436	34.189	10.394	26.251	35.057	43.476	183.795	0.871
400	9.545	34.138	9.500	26.363	35.207	43.663	173.674	0.961
450	8.600	34.082	8.552	26.470	35.356	43.852	163.704	1.045
500	7.551	34.030	7.502	26.585	35.520	44.060	152.640	1.124
600	5.733	34.005	5.682	26.806	35.828	44.450	130.965	1.266
700	4.897	34.085	4.841	26.968	36.030	44.690	115.644	1.389
800	4.292	34.210	4.231	27.134	36.225	44.912	100.052	1.497
900	3.941	34.308	3.874	27.249	36.357	45.060	89.520	1.592
1000	3.675	34.387	3.602	27.339	36.460	45.175	81.367	1.677
1100	3.427	34.442	3.348	27.407	36.541	45.267	75.165	1.755
1200	3.240	34.477	3.154	27.453	36.597	45.332	71.109	1.829
1300	3.019	34.510	2.927	27.501	36.655	45.402	66.764	1.898
1400	2.801	34.536	2.704	27.541	36.708	45.465	62.923	1.962
1500	2.635	34.554	2.531	27.571	36.746	45.512	60.233	2.024
1600	2.492	34.568	2.382	27.594	36.778	45.551	58.052	2.083
1700	2.336	34.583	2.220	27.620	36.812	45.593	55.621	2.140
1800	2.212	34.594	2.089	27.639	36.838	45.626	53.810	2.195
1900	2.099	34.605	1.969	27.658	36.863	45.657	52.092	2.248
2000	2.014	34.612	1.877	27.671	36.881	45.679	50.970	2.299
2100	1.929	34.621	1.785	27.685	36.900	45.703	49.670	2.349
2200	1.865	34.627	1.714	27.695	36.914	45.721	48.820	2.399
2300	1.799	34.634	1.640	27.706	36.929	45.740	47.847	2.447
2400	1.743	34.641	1.576	27.716	36.943	45.757	46.976	2.494
2500	1.698	34.645	1.523	27.724	36.953	45.770	46.443	2.541
2600	1.657	34.650	1.474	27.731	36.963	45.782	45.872	2.587
2700	1.611	34.655	1.420	27.739	36.974	45.796	45.217	2.633
2800	1.585	34.659	1.385	27.745	36.982	45.805	44.885	2.678
2900	1.557	34.662	1.348	27.750	36.989	45.814	44.587	2.723
3000	1.529	34.666	1.312	27.756	36.996	45.824	44.204	2.767
3100	1.515	34.669	1.288	27.760	37.002	45.830	44.078	2.811
3200	1.506	34.670	1.270	27.762	37.005	45.834	44.159	2.855
3300	1.493	34.672	1.247	27.765	37.009	45.840	44.105	2.899
3400	1.482	34.675	1.226	27.769	37.014	45.846	44.003	2.944
3500	1.477	34.678	1.211	27.772	37.019	45.851	43.983	2.988
3600	1.467	34.679	1.191	27.775	37.022	45.855	44.028	3.032
3700	1.466	34.681	1.180	27.777	37.025	45.859	44.134	3.076
3800	1.465	34.682	1.168	27.779	37.027	45.862	44.308	3.120
3900	1.464	34.683	1.157	27.780	37.029	45.865	44.480	3.164
4000	1.468	34.684	1.150	27.781	37.031	45.867	44.729	3.209
4100	1.469	34.685	1.140	27.783	37.033	45.869	44.930	3.254
4200	1.472	34.686	1.132	27.784	37.035	45.871	45.162	3.299
4300	1.470	34.687	1.119	27.786	37.037	45.875	45.312	3.344
4400	1.471	34.688	1.108	27.787	37.039	45.877	45.508	3.389
4500	1.474	34.689	1.100	27.789	37.041	45.880	45.738	3.435
4600	1.481	34.689	1.095	27.789	37.042	45.880	46.104	3.481
4700	1.487	34.690	1.089	27.790	37.043	45.882	46.384	3.527
4800	1.492	34.690	1.082	27.791	37.044	45.883	46.718	3.574
4900	1.498	34.691	1.076	27.792	37.046	45.885	46.998	3.621
5000	1.505	34.692	1.070	27.793	37.047	45.887	47.298	3.668
5100	1.515	34.692	1.068	27.793	37.048	45.887	47.721	3.715
5200	1.526	34.692	1.066	27.793	37.048	45.888	48.164	3.763
5300	1.534	34.692	1.061	27.794	37.048	45.888	48.554	3.811
5400	1.546	34.692	1.060	27.794	37.048	45.889	49.020	3.860
5500	1.557	34.692	1.058	27.794	37.049	45.889	49.468	3.910
5600	1.569	34.692	1.057	27.794	37.049	45.889	49.938	3.959
5700	1.581	34.694	1.055	27.796	37.051	45.891	50.273	4.009
5800	1.593	34.694	1.054	27.796	37.051	45.891	50.747	4.060
5846	1.599	34.694	1.054	27.796	37.051	45.892	50.975	4.083

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TDSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
1	21.621	35.170	5.16	103.0	2.1	0.03	0.0	0.00	21.621	24.454	32.954	40.893		1
57	20.114	35.161	5.24	101.7	2.1	0.05	0.0	0.00	20.103	24.858	33.303	41.395		57
106	17.779	34.906	5.35	99.3	2.9	0.10	0.0	0.02	17.761	25.260	33.782	41.935		106
155	15.221	34.592	5.14	90.5	5.2	0.36	3.7	0.09	15.197	25.615	34.229	42.468		155
205	12.821	34.139	5.26	88.0	8.8	0.61	7.9	0.02	12.793	25.922	34.629	42.956		205
304	10.725	34.204D	5.15	82.3	13.1	0.79	10.9	0.01	10.688	26.211	35.005	43.412		305
414	9.024	34.111	4.74	72.9	25.2	1.31	18.6	0.01	8.979	26.426	35.293	43.770		416
518	7.116	34.017	3.59	52.9	44.9	1.89	27.2	0.00	7.066	26.635	35.591	44.150		521
620	5.554	34.006	2.21	31.4	69.2	2.49	35.6	0.00	5.511	26.827	35.857	44.487		624
725	4.687	34.118	0.95	13.2	92.3	2.93	41.6	0.00	4.630	27.018	36.090	44.760		729
821	4.187	34.235	0.45	6.2	107.9	3.11	43.9	0.00	4.125	27.165	36.261	44.953		826
925	3.879	34.329	0.28	3.8	118.7	3.16	44.9	0.00	3.910	27.272	36.383	45.089		931
1007	3.707	34.379	0.32	4.3	127.0	3.21	45.0	0.00	3.632	27.329	36.449	45.162		1014
1245	3.153	34.492	0.72	9.7	140.9	3.14	44.4	0.00	3.064	27.474	36.521	45.361		1255
1532	2.579	34.561	1.31	17.3	152.8	3.03	43.1	0.00	2.472	27.561	36.759	45.528		1546
1829	2.174	34.600	1.67	21.8	161.6	2.94	42.1	0.00	2.048	27.647	36.848	45.638		1847
2143	1.889	34.627	1.96	25.4	170.7	2.87	42.4	0.00	1.740	27.693	36.910	45.716		2166
2603	1.640	34.653	2.44	31.4	174.8	2.77	40.1	0.00	1.454	27.735	36.968	45.788		2634
3152	1.490	34.678	3.02	38.7	168.8	2.66	38.5	0.00	1.254	27.769	37.013	45.843		3194
3630	1.464	34.682	3.27	41.8	163.0	2.59	37.6	0.00	1.179	27.778	37.025	45.860		3683
4175	1.469	34.688	3.49	44.6	156.3	2.54	37.0	0.00	1.124	27.786	37.037	45.874		4241
4532	1.481	34.689					36.6	0.03	1.093	27.789	37.042	45.880		4608
4977	1.509	34.691	3.72	47.5	149.2	2.45	36.3	0.00	1.066	27.792	37.047	45.887		5066
5723	1.598	34.693	3.76	48.0	146.1	2.49	36.2	0.00	1.053	27.795	37.050	45.890		5835

MARATHON 2 STA. 24

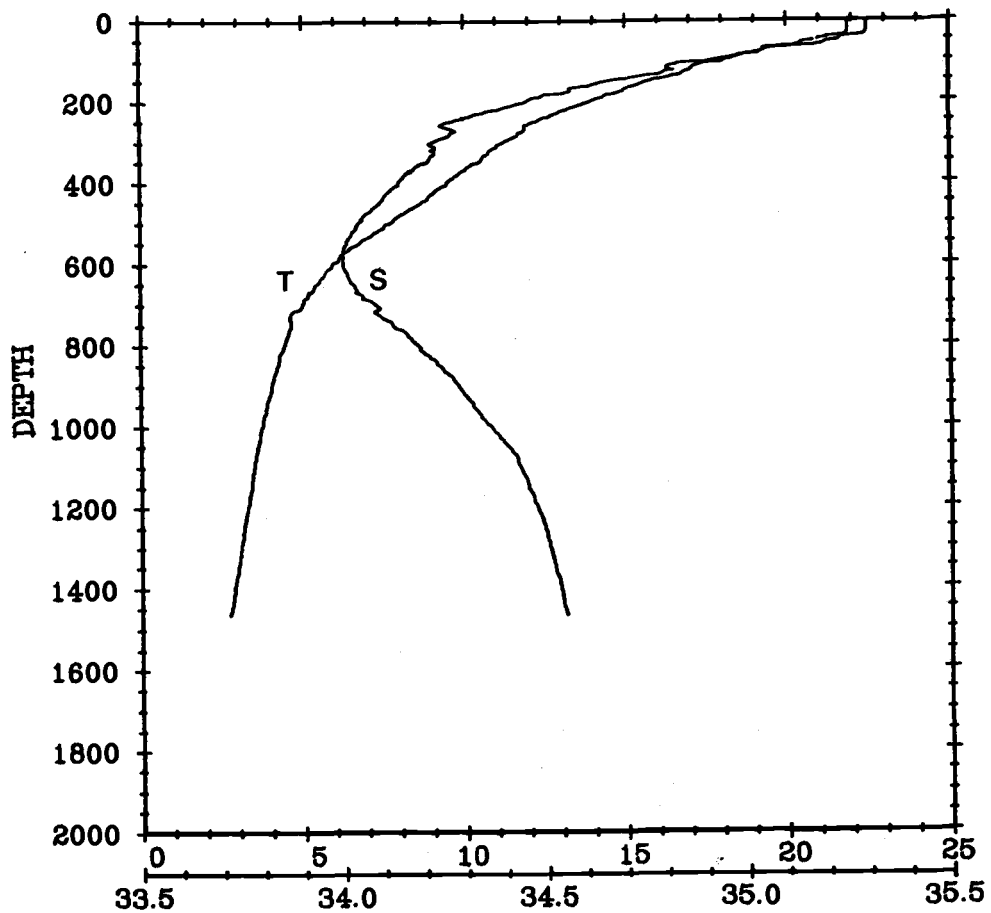
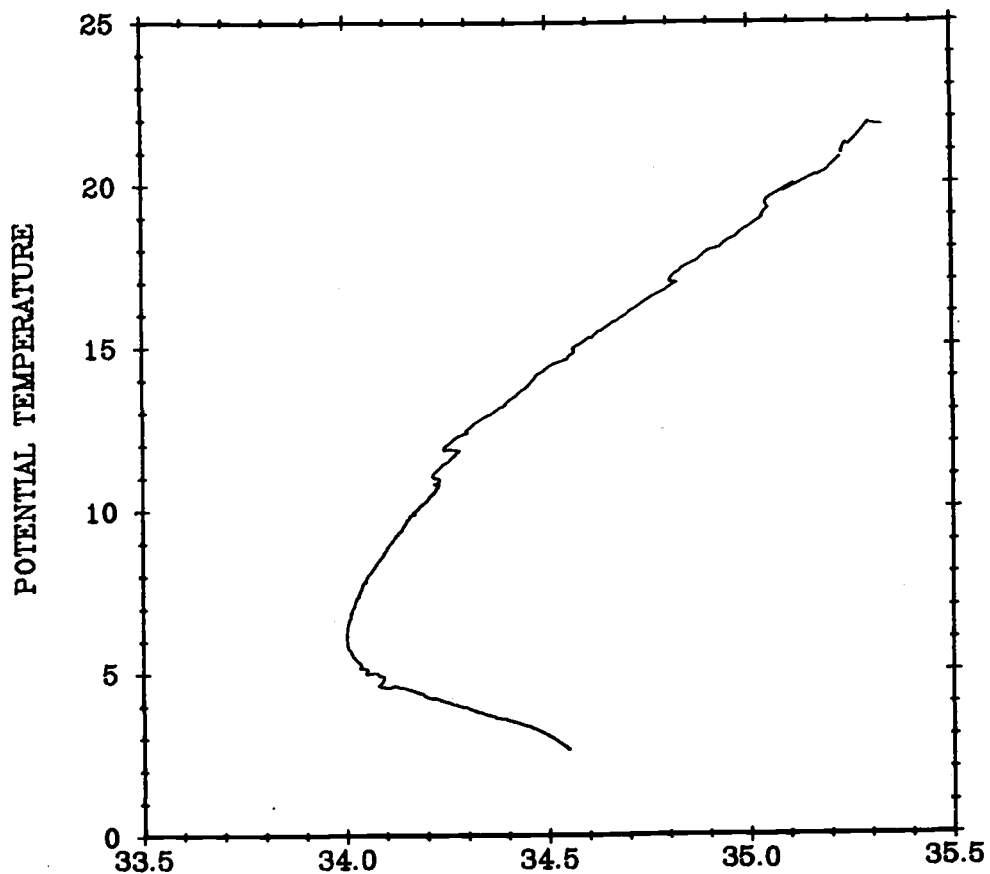


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
29 43.8N	152 0.9W	5/13/84	324	5586	80	20	19.4	16.1	1020.7

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	21.870	35.306	21.870	24.488	32.879	40.910	343.506	0.000	0
20	21.886	35.296	21.882	24.477	32.868	40.899	345.354	0.069	19
40	21.507	35.267	21.499	24.562	32.964	41.005	338.104	0.137	39
60	20.304	35.165	20.293	24.811	33.250	41.326	315.040	0.203	59
80	19.039	35.026	19.025	25.036	33.516	41.630	294.300	0.263	79
100	18.028	34.914	18.012	25.205	33.718	41.864	278.848	0.321	99
150	15.839	34.668	15.816	25.535	34.126	42.345	248.709	0.453	149
200	13.914	34.455	13.885	25.791	34.454	42.741	225.406	0.571	199
250	12.214	34.270	12.181	25.988	34.720	43.070	207.340	0.679	248
300	11.260	34.229	11.223	26.135	34.906	43.293	194.145	0.780	298
350	10.411	34.204	10.369	26.267	35.074	43.494	182.264	0.874	348
400	9.490	34.139	9.445	26.373	35.219	43.677	172.705	0.963	397
450	8.683	34.091	8.635	26.464	35.347	43.839	164.327	1.047	447
500	7.707	34.040	7.657	26.570	35.498	44.032	154.177	1.126	497
600	5.981	34.001	5.929	26.772	35.782	44.393	134.482	1.271	596
700	4.986	34.076	4.930	26.951	36.009	44.665	117.403	1.397	695
800	4.428	34.179	4.366	27.095	36.180	44.861	103.968	1.507	794
900	4.029	34.279	3.962	27.217	36.321	45.020	92.702	1.606	893
1000	3.728	34.354	3.655	27.307	36.426	45.139	84.429	1.694	992
1100	3.479	34.431	3.399	27.394	36.525	45.249	76.583	1.775	1091
1200	3.288	34.472	3.202	27.445	36.586	45.319	72.038	1.849	1190
1300	3.076	34.506	2.984	27.492	36.644	45.388	67.723	1.919	1288
1400	2.866	34.531	2.768	27.532	36.695	45.449	64.050	1.985	1387
1480	2.704	34.549	2.601	27.561	36.732	45.495	61.296	2.035	1466

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
3	21.870	35.294	5.13	102.9	2.5	0.03	0.0	0.00	3.59	21.869	24.479	32.870	40.901	3
53	20.441	35.190	5.27	103.0	3.0	0.06	0.0	0.00		20.431	24.793	33.228	41.300	53
101	17.318	34.828	5.50	101.1	3.9	0.09	0.0	0.00	3.94	17.301	25.311	33.849	42.018	101
140	15.778	34.640	5.05	90.0	5.1	0.34	3.2	0.03		15.756	25.542	34.135	42.356	140
171	14.512	34.517	4.93	85.5	7.2	0.50	5.8	0.01		14.487	25.711	34.352	42.617	171
199	13.584	34.426	5.21	88.6	8.4	0.53	6.6	0.01		13.556	25.836	34.513	42.811	199
251	11.965	34.247	5.07	93.3	11.5	0.75	9.9	0.01		11.932	26.018	34.759	43.119	252
323	10.850	34.228	5.38	86.3	14.7	0.87	12.0	0.00	3.96	10.810	26.208	34.996	43.399	324
392	9.646	34.148	4.94	77.1	21.5	1.17	16.5	0.00		9.601	26.354	35.193	43.645	394
476	8.152	34.058	4.30	64.8	33.2	1.55	22.1	0.00	4.06	8.103	26.519	35.426	43.941	478
563	6.416	34.002	3.08	44.6	54.0	2.12	30.5	0.00	2.89	6.365	26.718	35.706	44.297	566
645	5.340	34.030	1.81	25.6	74.6	2.63	37.5	0.00	1.21	5.286	26.873	35.914	44.554	649
722	4.613	34.083	1.18	16.4	91.6	2.90	41.1	0.00	0.26	4.556	26.998	36.074	44.748	726
819	4.313	34.198	0.55	7.6	106.2	3.08	43.5	0.00	0.01	4.250	27.122	36.212	44.899	824
915	3.978	34.292	0.31	4.2	117.1		44.6	0.01	-0.03	3.909	27.232	36.339	45.040	921
1165	3.347	34.459	0.55	7.4	134.7	3.39	44.7	0.00		3.262	27.429	36.566	45.297	1174
1467	2.699	34.548	1.12	14.8	149.3	3.04	43.5	0.00		2.596	27.560	36.732	45.495	1480

MARATHON 2 STA. 25



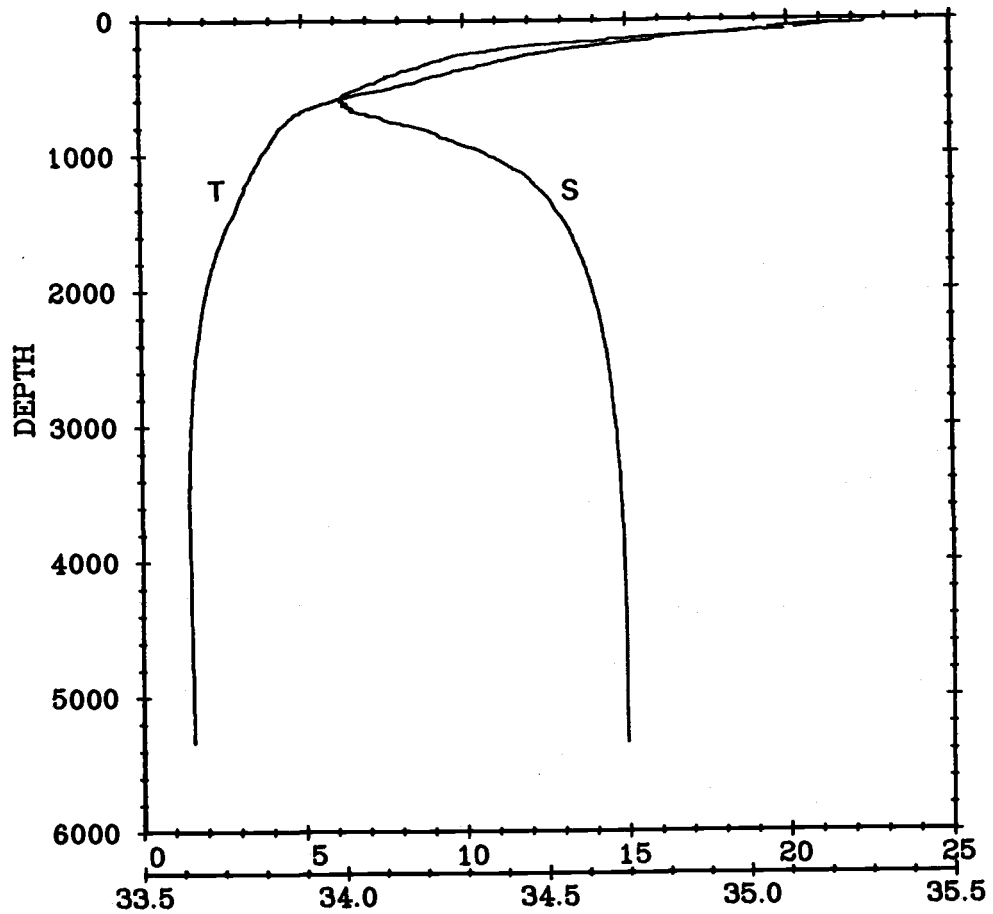
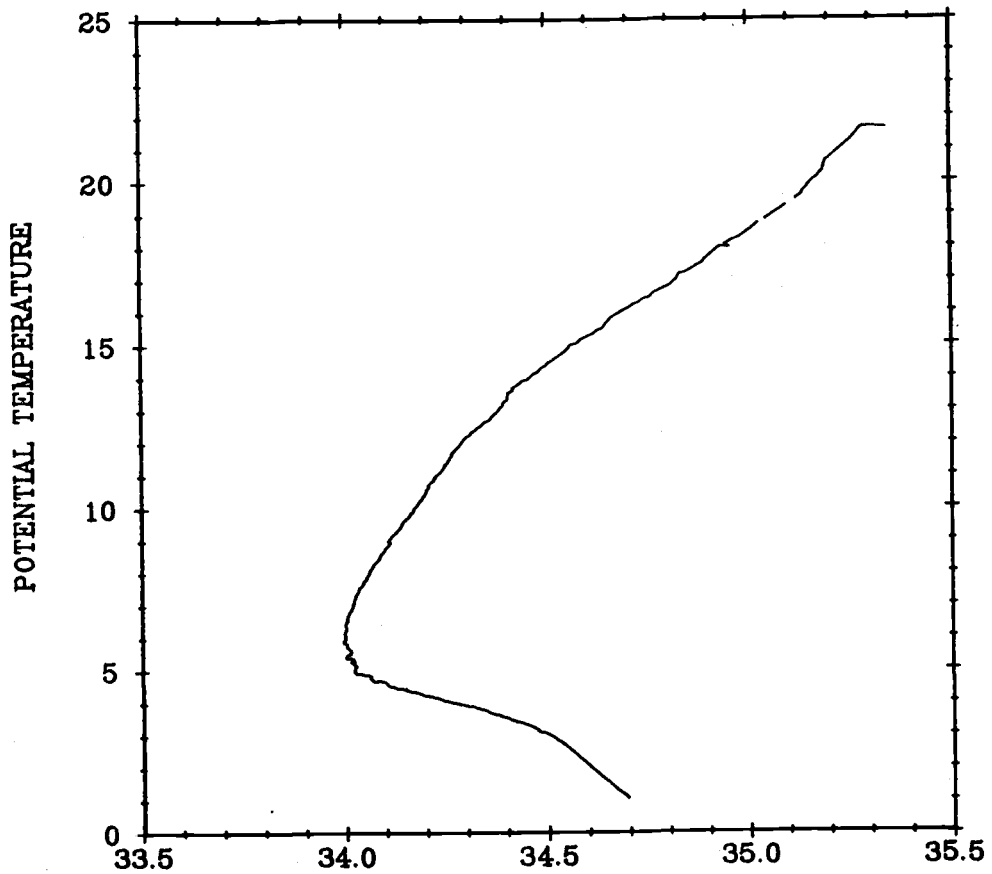
LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
30 4.6N	152 0.8W	5/13/84	918	5317	80	19	18.9	15.1	1023.4

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C					CL/TON		M
0	21.561	35.305	21.661	24.546	32.943	40.979	339.031	0.000		0
20	21.575	35.291	21.671	24.532	32.929	40.966	340.111	0.068		19
40	21.124	35.242	21.116	24.648	33.061	41.114	329.878	0.135		39
60	19.892	35.153	19.881	24.911	33.363	41.451	305.513	0.198		59
80	19.077	35.073	19.063	25.062	33.540	41.653	291.812	0.258		79
100	18.203	34.967	18.186	25.202	33.709	41.849	279.128	0.315		99
150	15.745	34.649	15.722	25.542	34.136	42.358	248.058	0.447		149
200	13.757	34.426	13.729	25.801	34.471	42.763	224.389	0.565		199
250	12.243	34.305	12.210	26.010	34.740	43.088	205.310	0.673		248
300	11.225	34.239	11.188	26.149	34.922	43.309	192.788	0.772		298
350	10.329	34.189	10.288	26.270	35.080	43.503	181.973	0.866		348
400	9.437	34.134	9.392	26.377	35.226	43.686	172.214	0.954		397
450	8.561	34.090	8.603	26.468	35.353	43.846	163.904	1.038		447
500	7.834	34.048	7.784	26.558	35.480	44.008	155.457	1.118		496
600	5.957	33.999	5.905	26.774	35.785	44.397	134.315	1.263		596
700	4.828	34.062	4.773	26.957	36.024	44.687	116.512	1.388		695
800	4.315	34.190	4.254	27.115	36.206	44.892	101.809	1.498		794
900	4.045	34.275	3.978	27.212	36.315	45.014	93.197	1.595		893
1000	3.754	34.358	3.680	27.308	36.425	45.137	84.437	1.684		992
1100	3.515	34.418	3.435	27.380	36.509	45.232	77.965	1.765		1091
1200	3.293	34.465	3.207	27.439	36.579	45.313	72.514	1.840		1190
1300	3.116	34.498	3.024	27.482	36.632	45.374	68.791	1.911		1298
1400	2.940	34.522	2.841	27.518	36.677	45.428	65.581	1.978		1387
1500	2.735	34.545	2.630	27.555	36.725	45.486	62.068	2.042		1486
1600	2.549	34.563	2.438	27.586	36.766	45.536	59.101	2.103		1584
1700	2.394	34.579	2.277	27.611	36.800	45.579	56.675	2.161		1693
1800	2.251	34.591	2.128	27.634	36.831	45.616	54.496	2.216		1782
1900	2.135	34.602	2.005	27.652	36.856	45.648	52.746	2.270		1880
2000	2.026	34.612	1.889	27.670	36.879	45.677	51.116	2.322		1979
2100	1.940	34.621	1.796	27.684	36.898	45.701	49.805	2.372		2077
2200	1.861	34.629	1.710	27.697	36.916	45.723	48.624	2.421		2175
2300	1.801	34.636	1.642	27.708	36.930	45.741	47.726	2.470		2274
2400	1.745	34.642	1.578	27.717	36.943	45.757	46.929	2.517		2372
2500	1.689	34.649	1.514	27.728	36.957	45.774	46.037	2.563		2470
2600	1.652	34.653	1.469	27.734	36.966	45.786	45.599	2.609		2568
2700	1.615	34.656	1.424	27.740	36.974	45.796	45.198	2.655		2667
2800	1.577	34.661	1.377	27.747	36.984	45.808	44.634	2.699		2765
2900	1.555	34.664	1.346	27.752	36.991	45.816	44.416	2.744		2863
3000	1.525	34.667	1.308	27.757	36.998	45.825	44.077	2.788		2961
3100	1.501	34.670	1.275	27.761	37.004	45.833	43.809	2.832		3059
3200	1.487	34.673	1.251	27.766	37.010	45.840	43.673	2.876		3157
3300	1.474	34.675	1.229	27.769	37.014	45.846	43.616	2.920		3255
3400	1.460	34.679	1.205	27.774	37.020	45.853	43.395	2.963		3352
3500	1.458	34.680	1.193	27.775	37.022	45.856	43.559	3.007		3450
3600	1.449	34.682	1.174	27.778	37.026	45.861	43.545	3.050		3548
3700	1.449	34.683	1.163	27.780	37.029	45.864	43.733	3.094		3646
3800	1.448	34.685	1.152	27.782	37.032	45.867	43.833	3.138		3743
3900	1.450	34.686	1.143	27.783	37.033	45.869	44.049	3.181		3841
4000	1.455	34.686	1.137	27.784	37.034	45.870	44.382	3.225		3939
4100	1.460	34.687	1.131	27.785	37.036	45.872	44.645	3.270		4036
4200	1.465	34.687	1.125	27.786	37.036	45.873	44.978	3.315		4134
4300	1.471	34.688	1.120	27.787	37.038	45.875	45.258	3.360		4231
4400	1.477	34.689	1.114	27.788	37.039	45.877	45.538	3.406		4329
4500	1.483	34.689	1.108	27.788	37.040	45.878	45.889	3.451		4426
4600	1.491	34.690	1.105	27.789	37.041	45.879	46.204	3.497		4523
4700	1.499	34.691	1.101	27.790	37.042	45.881	46.521	3.544		4620
4800	1.508	34.691	1.097	27.790	37.043	45.881	46.926	3.590		4718
4900	1.517	34.691	1.094	27.791	37.043	45.882	47.332	3.638		4815
5000	1.525	34.691	1.090	27.791	37.044	45.883	47.722	3.685		4912
5100	1.533	34.692	1.085	27.792	37.045	45.884	48.044	3.733		5009
5200	1.541	34.692	1.081	27.792	37.046	45.885	48.436	3.781		5106
5300	1.545	34.692	1.072	27.793	37.047	45.887	48.756	3.830		5203
5400	1.553	34.693	1.067	27.794	37.048	45.888	49.080	3.879		5300
5440	1.557	34.693	1.066	27.794	37.049	45.889	49.252	3.898		5339

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	21.512	35.293	5.15	102.9	2.1	0.04	0.0	0.01		21.612	24.550	32.948	40.987	1
56	19.996	35.162	5.28	102.3	2.3	0.07	0.0	0.00		19.986	24.890	33.339	41.424	56
106	17.423	34.869	5.09	93.8	3.6	0.21	1.2	0.14		17.405	25.318	33.852	42.017	106
152	15.597	34.643	5.11	90.7	4.6	0.34	3.3	0.05		15.573	25.570	34.170	42.397	152
202	13.443	34.406	5.15	87.4	8.2	0.58	7.2	0.02		13.415	25.850	34.531	42.835	202
300	11.371	34.250	5.28	85.6	13.1	0.83	11.2	0.01		11.333	26.131	34.897	43.280	301
416	9.279	34.121	4.81	74.4	23.8	1.24	17.8	0.01		9.232	26.393	35.249	43.716	418
499	7.596	34.035	4.02	59.8	37.8	1.73	24.4	0.00		7.546	26.582	35.515	44.054	502
601	5.758	33.992	2.69	38.3	63.4	2.36	33.3	0.00		5.706	26.792	35.813	44.434	604
693	4.787	34.066	1.35	18.9	86.5	2.86	40.2	0.00		4.732	26.965	36.033	44.698	697
810	4.289	34.198	0.59	8.1	105.3	3.10	43.4	0.00		4.227	27.125	36.216	44.904	815
898	4.003	34.292	0.33	4.5	117.3	3.20	44.5	0.00		3.935	27.229	36.335	45.035	904
977	3.773	34.354	0.31	4.2	124.9	3.24	44.8	0.00		3.700	27.303	36.419	45.130	984
1167	3.332	34.463	0.61	8.2	135.7	3.20	44.6	0.00		3.247	27.433	36.572	45.303	1176
1436	2.811	34.536	1.07	14.2	147.8	3.11	43.6	0.00		2.709	27.541	36.707	45.464	1449
1717	2.333	34.583	1.48	19.4	159.7	3.01	42.6	0.00		2.214	27.620	36.812	45.594	1733
1974	2.033	34.611	1.72	22.4	170.1	2.96	42.0	0.00		1.896	27.668	36.877	45.675	1994
2500	1.672	34.649	2.35	30.3	174.5	2.84	40.2	0.00		1.495	27.729	36.959	45.777	2529
2954	1.522	34.667	2.81	36.1	170.4	2.74	39.1	0.00		1.304	27.757	36.998	45.826	3002
3449	1.457	34.681	3.20	41.0	165.6	2.64	37.9	0.00		1.192	27.776	37.023	45.856	3498
4062	1.460	34.689	3.45	44.1	159.8	2.57	37.2	0.00		1.128	27.787	37.037	45.874	4126
4537	1.492	34.691					36.8	0.02		1.103	27.790	37.042	45.880	4613
5037	1.535	34.692	3.64	46.5	151.7	2.48	36.6	0.00		1.083	27.792	37.045	45.885	5128
5337	1.557	34.693	3.74	47.7	150.1	2.52	36.3	0.00		1.066	27.794	37.048	45.888	5437

MARATHON 2 STA. 26



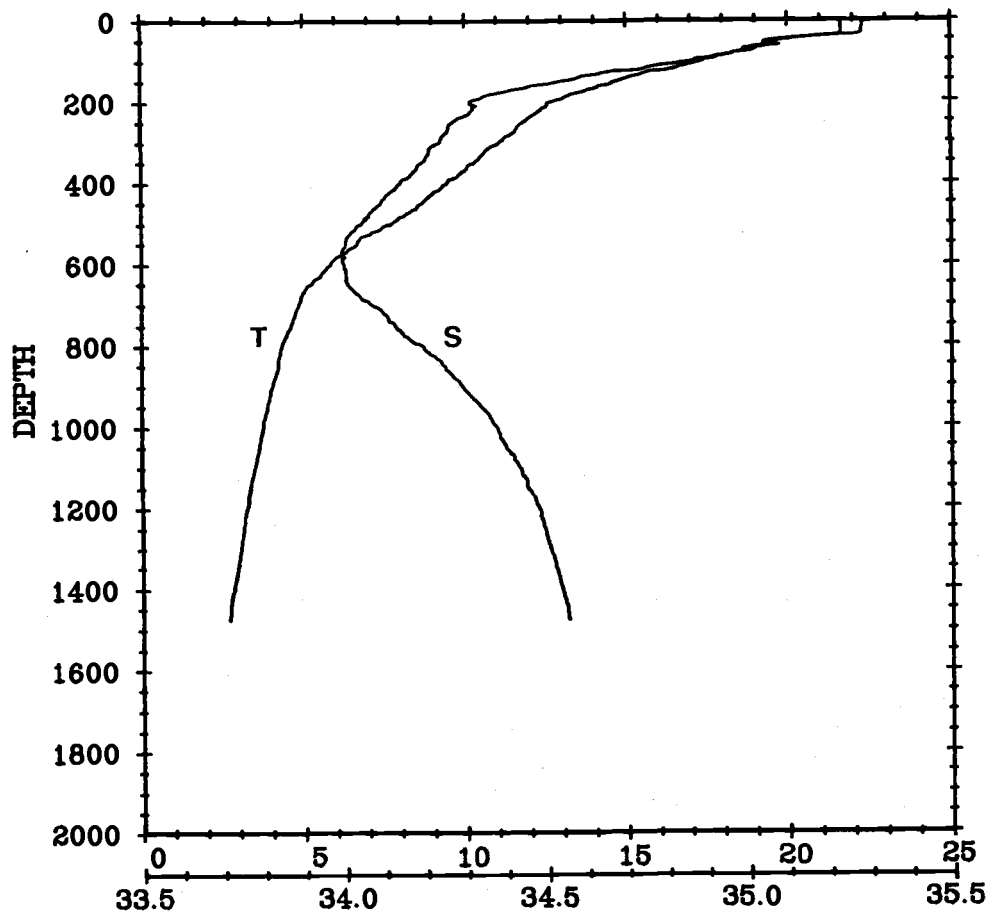
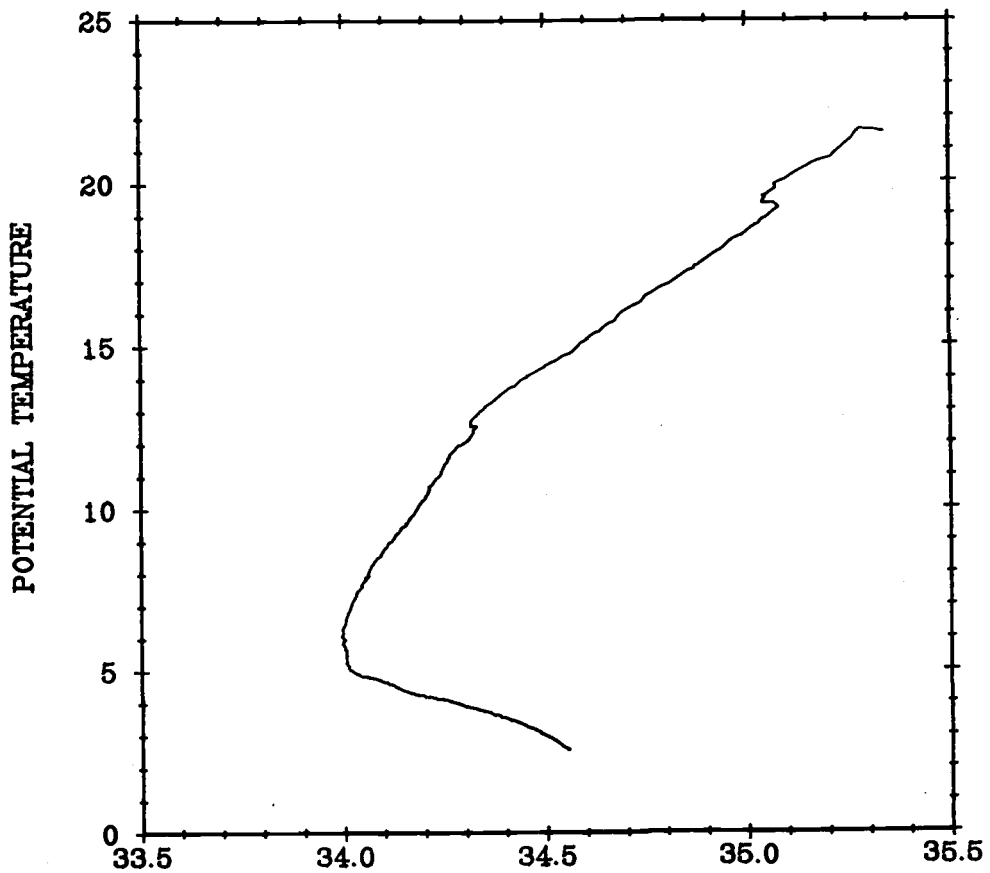
R/V THOMAS WASHINGTON MARATHON LEG II STATION 27

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
30 26.4N	152 0.3W	5/13/84	1524	5312	80	19	18.9	16.1	1024.7

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	21.610	35.303	21.610	24.558	32.957	40.995	336.827	0.000	0
20	21.640	35.281	21.636	24.534	32.932	40.970	339.909	0.068	19
40	20.857	35.195	20.849	24.685	33.107	41.167	326.357	0.134	39
60	19.283	35.053	19.272	24.993	33.465	41.572	297.659	0.197	59
80	18.309	34.978	18.295	25.183	33.687	41.823	280.212	0.254	79
100	17.376	34.868	17.359	25.328	33.864	42.031	267.019	0.309	99
150	14.690	34.541	14.668	25.691	34.325	42.583	233.605	0.434	149
200	12.739	34.322	12.712	25.925	34.635	42.966	212.192	0.546	199
250	11.817	34.272	11.785	26.065	34.812	43.177	199.885	0.649	248
300	11.063	34.235	11.026	26.176	34.954	43.349	190.220	0.746	298
350	10.262	34.193	10.221	26.284	35.097	43.523	180.544	0.839	348
400	9.429	34.141	9.384	26.384	35.233	43.693	171.568	0.927	397
450	8.643	34.090	8.595	26.469	35.354	43.847	163.780	1.011	447
500	7.699	34.043	7.649	26.574	35.502	44.036	153.838	1.090	496
600	5.830	33.999	5.778	26.789	35.907	44.424	132.662	1.234	596
700	4.836	34.067	4.781	26.960	36.026	44.689	116.238	1.358	695
800	4.317	34.184	4.256	27.110	36.201	44.887	102.278	1.467	794
900	4.017	34.287	3.950	27.224	36.329	45.028	91.968	1.564	893
1000	3.720	34.370	3.647	27.321	36.440	45.153	83.151	1.652	992
1100	3.482	34.429	3.402	27.392	36.523	45.247	76.766	1.732	1091
1200	3.234	34.475	3.149	27.452	36.596	45.332	71.188	1.806	1190
1300	3.046	34.504	2.954	27.493	36.647	45.392	67.520	1.875	1288
1400	2.823	34.532	2.725	27.536	36.702	45.458	63.474	1.941	1387
1490	2.653	34.554	2.550	27.569	36.743	45.508	60.387	1.996	1476

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
2	21.667	35.288	5.14	102.8	2.6	0.04	0.0	0.00	21.667	24.531	32.928	40.965		2
52	20.308	35.145	5.34	104.1	2.8	0.06	0.0	0.00	20.298	24.794	33.233	41.310		52
99	17.279	34.856	5.14	94.4	3.8	0.18	1.1	0.20	17.262	25.342	33.881	42.051		99
131	15.797	34.682	5.12	91.3	5.1	0.31	3.1	0.02	15.776	25.554	34.146	42.365		131
163	14.121	34.457	5.13	88.3	7.3	0.49	5.6	0.01	14.097	25.748	34.403	42.682		163
197	13.051	34.342	5.02	84.4	9.2	0.64	8.1	0.01	13.024	25.879	34.577	42.995		197
241	12.076	34.295	5.42	89.3	11.0	0.68	9.1	0.00	12.044	26.033	34.770	43.125		242
294	11.261	34.241	5.31	85.9	13.4	0.82	11.4	0.00	11.224	26.144	34.915	43.301		295
396	9.456	34.139	4.87	75.7	23.4	1.20	17.2	0.00	9.411	26.378	35.226	43.685		398
490	7.922	34.052	4.20	63.0	36.0	1.60	23.1	0.00	7.872	26.548	35.466	43.990		492
584	5.974	33.998	2.74	39.3	60.8	2.29	32.8	0.00	5.923	26.771	35.781	44.392		587
672	4.898	34.040	1.60	22.3	83.2	2.74	39.2	0.00	4.844	26.932	35.994	44.655		676
770	4.452	34.142	0.83	11.5	99.3	3.00	42.6	0.00	4.392	27.063	36.146	44.827		775
857	4.164	34.246	0.47	6.5	112.2	3.13	44.1	0.00	4.099	27.176	36.273	44.966		863
966	3.804	34.349	0.29	3.9	123.8	3.18	44.8	0.00	3.732	27.295	36.410	45.119		973
1192	3.202	34.475	0.59	7.9	137.8		44.7	0.01	3.116	27.455	36.600	45.338		1201
1469	2.653	34.551	1.18	15.6	149.8	3.01	43.4	0.00	2.550	27.567	36.740	45.506		1482

MARATHON 2 STA. 27

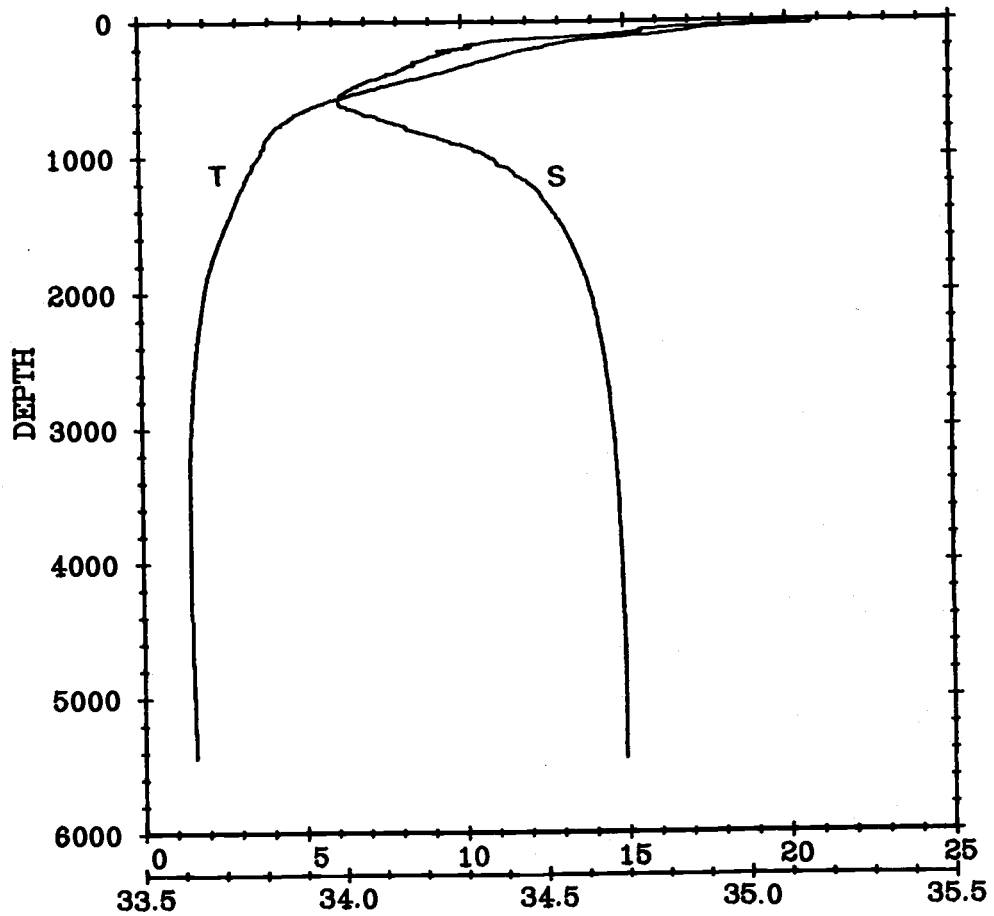
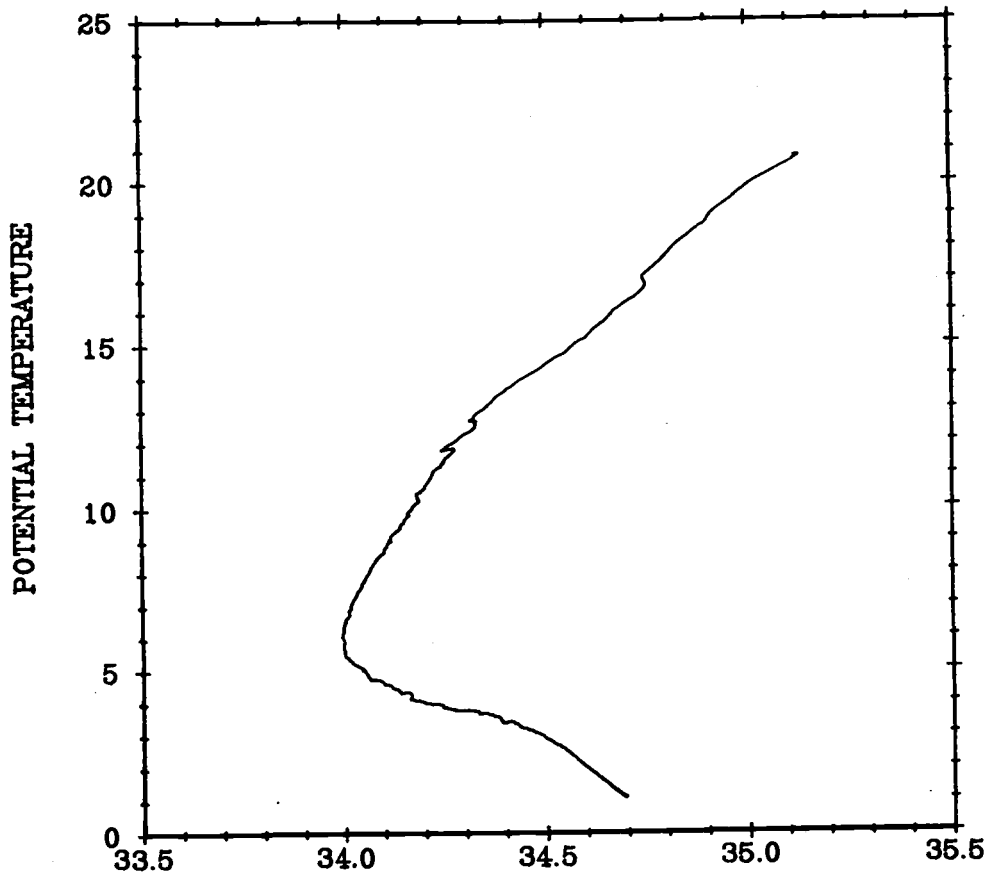


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
30 47.5N	152 0.0W	5/13/84	2124	5435	70	16	21.7	17.2	1025.8

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS DB	TEMP DEG C	DEG C				CL/TON		M
0	20.814	35.129	20.814	24.644	33.068	41.130	328.672	0.000
20	20.783	35.127	20.779	24.652	33.077	41.140	328.698	0.066
40	19.373	34.959	19.366	24.897	33.367	41.472	306.048	0.129
60	17.480	34.775	17.470	25.230	33.763	41.927	274.961	0.187
80	16.713	34.733	16.700	25.351	33.941	42.130	261.201	0.241
100	15.980	34.665	15.964	25.499	34.085	42.299	250.553	0.292
150	13.448	34.382	13.427	25.829	34.510	42.814	220.223	0.410
200	12.351	34.306	12.325	25.988	34.714	43.058	206.062	0.516
250	11.373	34.242	11.342	26.124	34.890	43.272	194.092	0.616
300	10.564	34.191	10.528	26.230	35.030	43.444	184.797	0.711
350	9.837	34.158	9.797	26.329	35.160	43.604	176.021	0.801
400	9.061	34.113	9.017	26.421	35.287	43.763	167.741	0.887
450	8.134	34.052	8.088	26.524	35.432	43.947	158.082	0.969
500	7.305	34.025	7.257	26.615	35.562	44.113	149.470	1.046
600	5.773	33.995	5.722	26.793	35.813	44.434	132.222	1.186
700	4.775	34.075	4.720	26.974	36.042	44.709	114.905	1.310
800	4.176	34.166	4.116	27.111	36.209	44.902	101.956	1.418
900	3.854	34.274	3.788	27.230	36.344	45.051	91.030	1.515
1000	3.702	34.363	3.629	27.317	36.437	45.151	83.459	1.602
1100	3.459	34.419	3.380	27.386	36.518	45.244	77.238	1.683
1200	3.223	34.462	3.138	27.443	36.587	45.324	72.020	1.757
1300	3.005	34.494	2.914	27.489	36.645	45.392	67.781	1.827
1400	2.837	34.519	2.739	27.525	36.689	45.445	64.595	1.893
1500	2.673	34.541	2.569	27.557	36.731	45.495	61.634	1.956
1600	2.499	34.560	2.389	27.588	36.771	45.544	58.732	2.017
1700	2.333	34.575	2.217	27.614	36.806	45.589	56.173	2.074
1800	2.191	34.589	2.068	27.637	36.837	45.626	53.927	2.129
1900	2.062	34.603	1.933	27.659	36.866	45.662	51.795	2.182
2000	1.981	34.612	1.845	27.673	36.885	45.685	50.569	2.233
2100	1.905	34.621	1.762	27.687	36.903	45.707	49.375	2.283
2200	1.842	34.628	1.691	27.698	36.918	45.726	48.461	2.332
2300	1.782	34.634	1.623	27.707	36.931	45.743	47.632	2.380
2400	1.730	34.641	1.564	27.717	36.944	45.759	46.810	2.427
2500	1.684	34.646	1.510	27.725	36.955	45.773	46.190	2.474
2600	1.647	34.650	1.464	27.732	36.964	45.784	45.741	2.520
2700	1.608	34.655	1.417	27.739	36.974	45.796	45.177	2.565
2800	1.579	34.659	1.379	27.745	36.982	45.806	44.805	2.610
2900	1.556	34.662	1.347	27.750	36.989	45.814	44.573	2.655
3000	1.535	34.665	1.317	27.755	36.995	45.822	44.359	2.699
3100	1.513	34.668	1.286	27.759	37.001	45.830	44.121	2.744
3200	1.498	34.671	1.262	27.763	37.007	45.837	43.973	2.788
3300	1.483	34.673	1.237	27.766	37.011	45.843	43.889	2.832
3400	1.476	34.675	1.221	27.769	37.015	45.847	43.915	2.875
3500	1.467	34.678	1.202	27.773	37.020	45.853	43.835	2.919
3600	1.463	34.679	1.187	27.775	37.022	45.856	43.968	2.963
3700	1.463	34.680	1.177	27.776	37.025	45.859	44.159	3.007
3800	1.461	34.682	1.165	27.779	37.028	45.862	44.246	3.051
3900	1.462	34.683	1.155	27.780	37.030	45.865	44.449	3.096
4000	1.464	34.684	1.146	27.781	37.031	45.867	44.666	3.140
4100	1.466	34.685	1.137	27.783	37.033	45.870	44.882	3.185
4200	1.471	34.686	1.131	27.784	37.035	45.872	45.146	3.230
4300	1.475	34.687	1.123	27.786	37.037	45.874	45.393	3.275
4400	1.481	34.688	1.118	27.787	37.038	45.875	45.675	3.321
4500	1.488	34.688	1.113	27.787	37.039	45.876	46.043	3.367
4600	1.495	34.689	1.108	27.788	37.040	45.878	46.342	3.413
4700	1.503	34.690	1.104	27.789	37.041	45.879	46.659	3.460
4800	1.510	34.690	1.099	27.790	37.042	45.880	47.030	3.506
4900	1.521	34.690	1.098	27.790	37.042	45.880	47.472	3.554
5000	1.532	34.690	1.097	27.790	37.042	45.881	47.916	3.601
5100	1.543	34.692	1.095	27.792	37.044	45.883	48.223	3.649
5200	1.554	34.691	1.093	27.791	37.044	45.882	48.741	3.698
5300	1.564	34.691	1.090	27.791	37.044	45.883	49.173	3.747
5400	1.575	34.690	1.088	27.790	37.043	45.882	49.694	3.796
5500	1.585	34.690	1.085	27.791	37.044	45.883	50.129	3.846
5548	1.590	34.691	1.084	27.791	37.045	45.884	50.273	3.870

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH M	TEMP DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	20.859	5.23	102.9	2.9	0.02	0.0	0.00	20.859	24.621	33.044	41.104	41.104	1
53	18.576	5.55	104.6	3.2	0.05	0.0	0.00	18.567	25.078	33.573	41.702	41.702	53
103	16.149	5.59	100.3	3.9	0.13	0.2	0.05	16.133	25.469	34.049	42.257	42.257	103
153	13.369	5.11	86.5	8.1	0.56	7.0	0.01	13.348	25.836	34.521	42.828	42.828	153
203	12.272	5.39	89.2	9.8	0.65	8.6	0.01	12.245	25.995	34.724	43.071	43.071	204
304	10.675	5.16	82.4	16.2	0.95	13.3	0.01	10.638	26.223	35.018	43.428	43.428	305
403	8.667	4.60	70.2	28.2	1.39	20.0	0.00	8.624	26.467	35.350	43.843	43.843	405
503	6.926	3.58	52.5	46.1	1.92	27.7	0.00	6.878	26.657	35.621	44.189	44.189	506
601	5.480	2.31	32.7	69.2	2.49	35.4	0.00	5.429	26.831	35.867	44.501	44.501	604
699	4.734	1.06	14.8	89.8	2.94	41.2	0.01	4.679	26.998	36.068	44.735	44.735	703
801	4.136	0.56	7.7	107.8	3.10	43.8	0.00	4.076	27.135	36.235	44.930	44.930	806
901	3.862	0.30	4.1	117.9	3.17	44.8	0.00	3.795	27.241	36.353	45.060	45.060	907
1001	3.664	0.25	3.4	124.9	3.23	45.2	0.00	3.590	27.310	36.432	45.148	45.148	1008
1249	3.137	0.50	6.7	139.0	3.20	45.1	0.00	3.047	27.463	36.612	45.353	45.353	1259
1497	2.701	0.90	11.9	151.7	3.13	44.2	0.00	2.596	27.555	36.727	45.489	45.489	1510
1743	2.268	1.29	16.9	164.4	3.04	43.2	0.00	2.147	27.626	36.821	45.606	45.606	1760
1985	2.011	1.59	20.7	170.7	2.97	42.4	0.00	1.874	27.669	36.879	45.678	45.678	2006
2477	1.688	2.22	28.6	174.7	2.84	40.7	0.00	1.513	27.726	36.956	45.772	45.772	2506
2978	1.523	2.77	35.6	171.2	2.72	39.3	0.00	1.304	27.775	36.998	45.826	45.826	3017
3470	1.464	3.16	40.5	164.2	2.63	38.1	0.00	1.196	27.774	37.021	45.854	45.854	3519
3970	1.462	3.39	43.3	159.9	2.57	37.5	0.00	1.140	27.785	37.035	45.871	45.871	4031
4463	1.489			156.2		37.1	0.01	1.109	27.787	37.039	45.877	45.877	4537
4955	1.537	3.60	46.0	153.2	2.48	36.7	0.00	1.095	27.791	37.043	45.882	45.882	5043
5441	1.590			151.4	2.52	36.6	0.00	1.084	27.791	37.045	45.883	45.883	5544

MARATHON 2 STA. 28



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
31 8.9N	152 0.0W	5/14/84	524	5420	100	13	19.4	16.7	1028.4

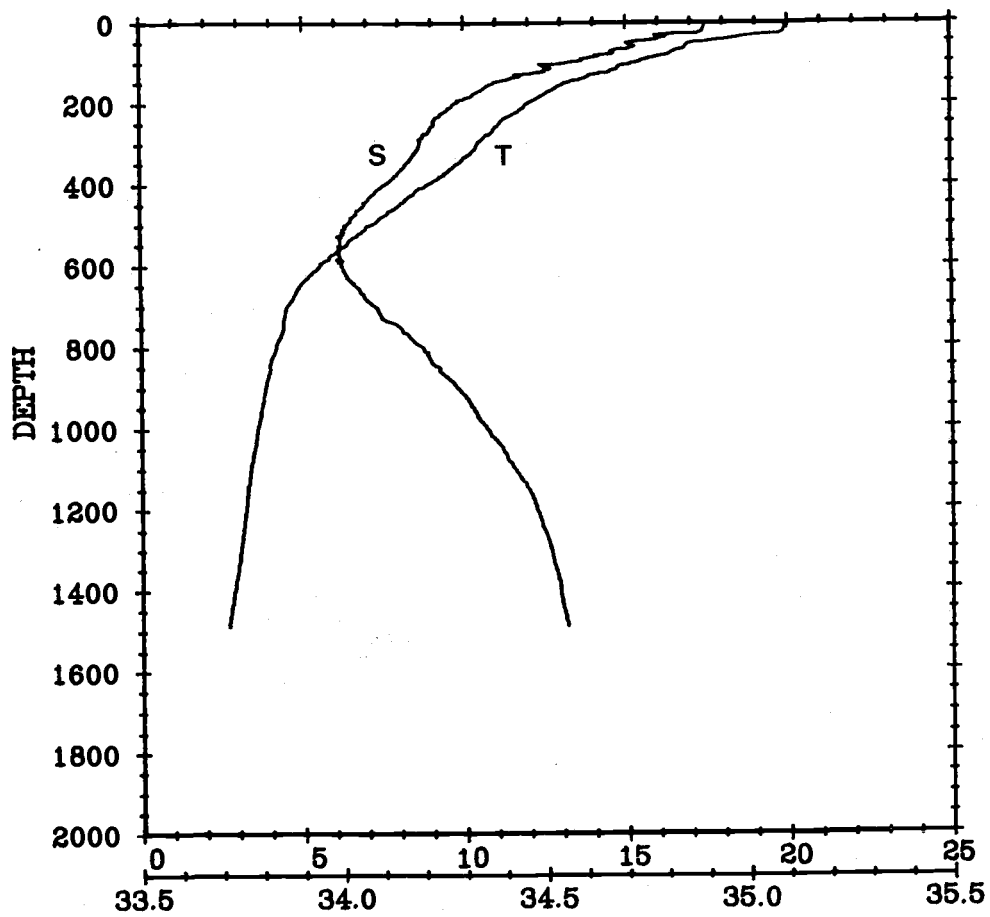
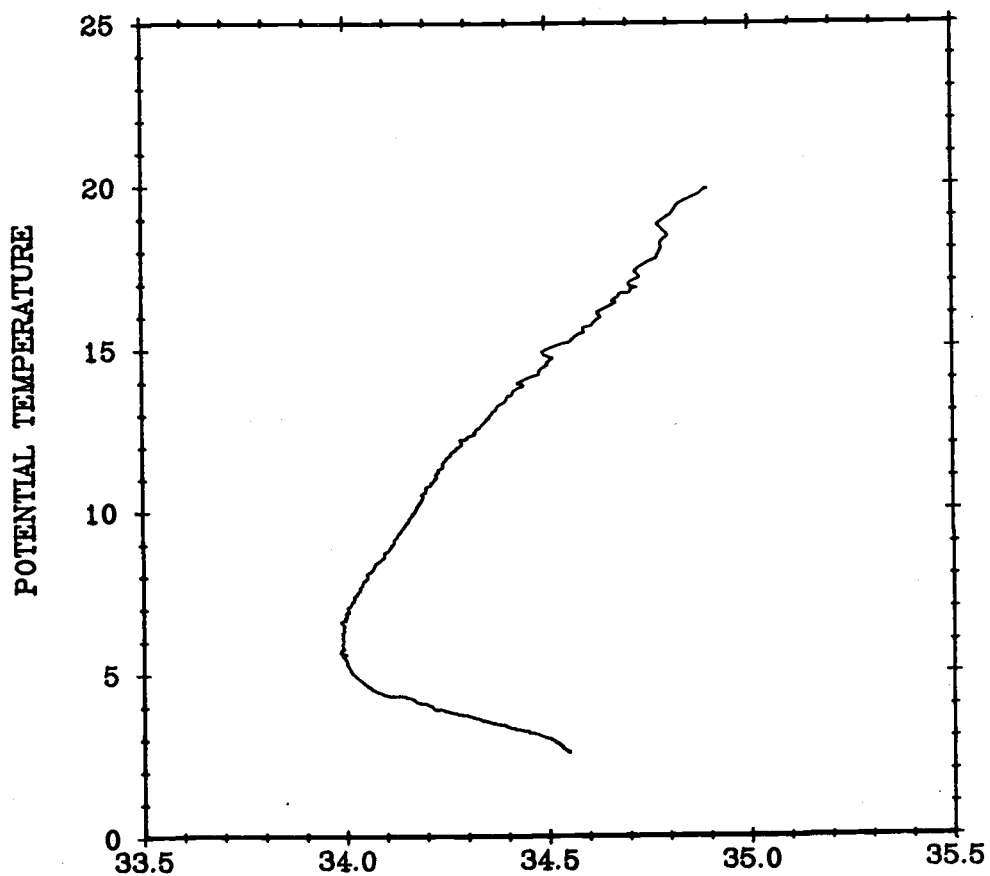
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	19.929	34.894	19.929	24.701	33.154	41.244	323.256	0.000	0
20	19.805	34.881	19.801	24.724	33.182	41.275	321.763	0.065	19
40	18.247	34.778	18.240	25.044	33.552	41.692	292.032	0.126	39
60	16.865	34.708	16.855	25.325	33.880	42.055	265.839	0.182	59
80	16.176	34.645	16.163	25.438	34.017	42.225	255.718	0.234	79
100	15.247	34.554	15.232	25.578	34.191	42.430	242.929	0.284	99
150	13.196	34.379	13.175	25.877	34.569	42.881	215.536	0.398	149
200	11.987	34.279	11.961	26.037	34.777	43.136	201.320	0.503	198
250	11.082	34.224	11.051	26.162	34.940	43.334	190.274	0.600	248
300	10.417	34.190	10.381	26.255	35.061	43.480	182.365	0.694	298
350	9.778	34.158	9.738	26.339	35.173	43.619	175.049	0.783	347
400	8.890	34.106	8.837	26.444	35.318	43.801	165.408	0.868	397
450	8.016	34.051	7.970	26.533	35.447	43.967	157.131	0.949	447
500	7.120	34.009	7.072	26.628	35.584	44.143	148.033	1.025	496
600	5.526	33.996	5.476	26.824	35.856	44.488	128.994	1.163	596
700	4.521	34.072	4.467	26.999	36.080	44.758	112.094	1.284	695
800	4.158	34.185	4.098	27.123	36.226	44.920	100.335	1.390	794
900	3.823	34.274	3.757	27.233	36.348	45.057	90.672	1.486	893
1000	3.592	34.346	3.520	27.314	36.440	45.160	83.443	1.573	992
1100	3.372	34.414	3.293	27.390	36.527	45.257	76.600	1.653	1091
1200	3.209	34.471	3.124	27.452	36.596	45.334	71.193	1.727	1189
1300	3.051	34.506	2.959	27.495	36.648	45.393	67.431	1.796	1288
1400	2.858	34.529	2.760	27.531	36.694	45.449	64.104	1.862	1387
1500	2.675	34.548	2.571	27.562	36.736	45.500	61.142	1.924	1486
1504	2.663	34.549	2.559	27.564	36.738	45.503	60.951	1.927	1490

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
4	19.934	34.894	5.33	103.0	4.3	0.07	0.1	0.00	19.933	24.700	33.153	41.242		4
53	16.977	34.695	5.72	104.4	4.9	0.13	0.1	0.00	16.968	25.289	33.840	42.021		53
103	15.170	34.550	5.56	97.8	6.0	0.27	1.8	0.34	15.154	25.592	34.208	42.449		103
135	13.835	34.444	5.25	89.8	8.0	0.49	6.0	0.09	13.816	25.796	34.463	42.752		135
168	12.745	34.345	5.29	88.4	9.7	0.63	8.2	0.02	12.722	25.941	34.650	42.980		168
199	12.027	34.286	5.42	89.2	11.0	0.68	9.3	0.01	12.001	26.035	34.773	43.130		200
246	11.118	34.222	5.34	86.1	14.1	0.82	11.5	0.01	11.087	26.154	34.930	43.323		247
301	10.401	34.190	5.17	82.1	17.7	0.98	14.0	0.00	10.365	26.257	35.064	43.494		302
401	8.849	34.106	4.68	71.7	28.1	1.33	19.4	0.01	8.806	26.449	35.324	43.808		403
500	7.012	34.010	3.82	55.1	45.0	1.84	26.7	0.00	6.964	26.644	35.604	44.168		503
600	5.532	33.998	2.37	33.6	69.5	2.44	35.4	0.00	5.481	26.825	35.856	44.488		604
696	4.536	34.070	1.29	17.9	93.1	2.86	41.2	0.00	4.482	26.996	36.076	44.753		700
790	4.178	34.176	0.65	8.9	108.0	3.05	43.7	0.00	4.118	27.118	36.216	44.909		795
889	3.836	34.270	0.34	4.6	122.2	3.17	45.0	0.00	3.770	27.229	36.343	45.051		895
986	3.620	34.338	0.25	3.4	129.8		45.5	0.01	3.548	27.305	36.429	45.148		993
1235	3.142	34.485	0.64	8.6	143.4	3.10	45.0	0.00	3.054	27.469	36.617	45.358		1245
1490	2.662	34.548	1.00	13.2	155.8	3.08	44.1	0.00	2.558	27.563	36.737	45.502		1503

MARATHON 2 STA. 29

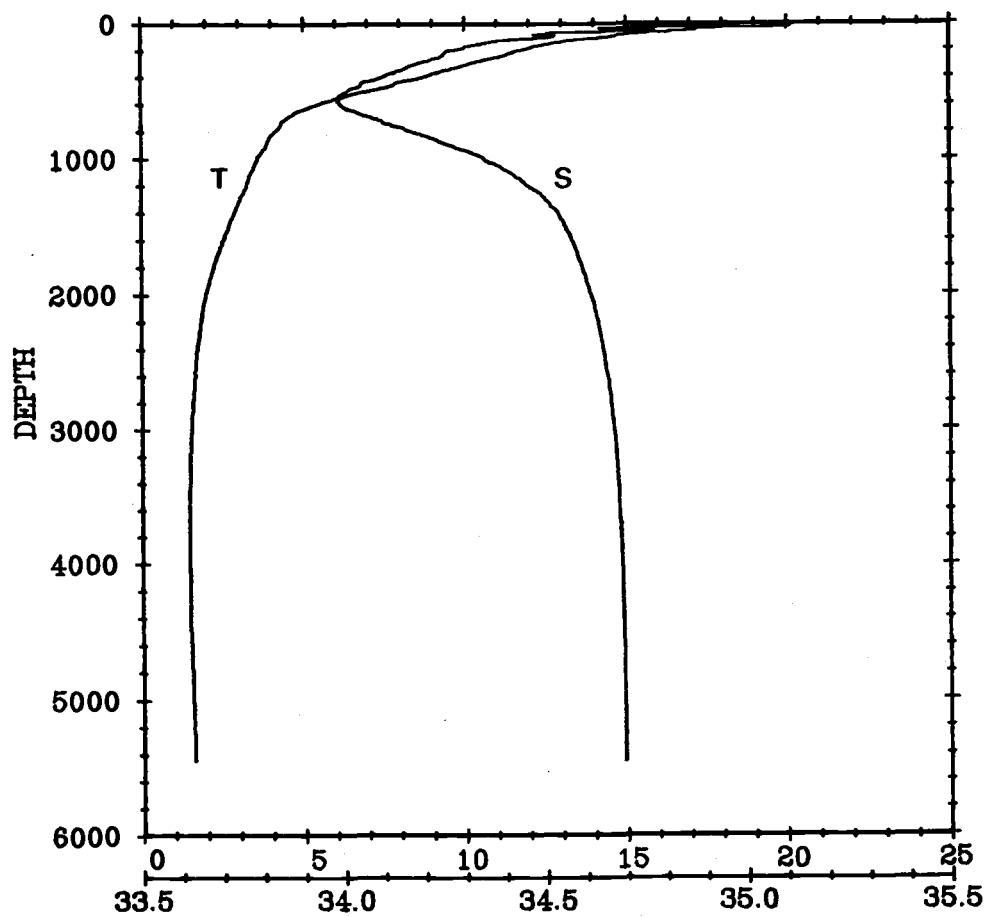
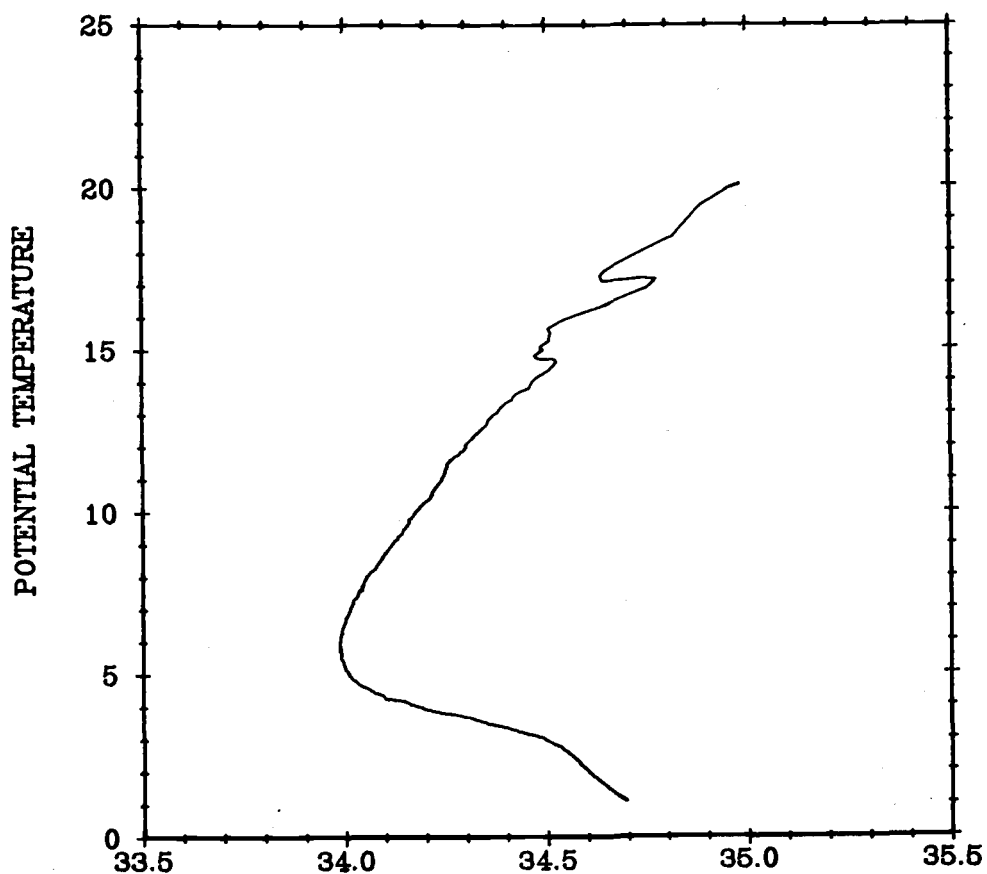


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
31 29.8N	152 0.7W	5/14/84	1112	5458	120	8	19.4	16.1	1028.1

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C					CL/TON		M
0	20.097	34.980	20.097	24.722	33.169	41.253	321.225	0.000		0
20	20.034	34.973	20.030	24.734	33.184	41.269	320.815	0.064		19
40	17.879	34.737	17.872	25.103	33.624	41.776	286.368	0.125		39
60	16.553	34.666	16.543	25.366	33.932	42.127	261.923	0.180		59
80	15.219	34.502	15.207	25.543	34.158	42.399	245.583	0.231		79
100	14.507	34.506	14.492	25.702	34.343	42.607	231.039	0.278		99
150	12.659	34.344	12.639	25.957	34.669	43.002	207.842	0.388		149
200	11.703	34.269	11.678	26.083	34.834	43.203	196.993	0.489		198
250	11.035	34.237	11.004	26.181	34.961	43.356	188.494	0.585		248
300	10.141	34.182	10.106	26.296	35.113	43.544	178.304	0.677		298
350	9.419	34.141	9.380	26.385	35.234	43.695	170.461	0.764		347
400	8.712	34.095	8.669	26.462	35.343	43.833	163.604	0.848		397
450	7.849	34.045	7.804	26.553	35.474	44.001	155.103	0.927		447
500	7.095	34.012	7.048	26.634	35.591	44.151	147.459	1.003		496
550	5.458	33.993	5.408	26.829	35.865	44.500	128.359	1.141		596
700	4.490	34.073	4.436	27.003	36.086	44.765	111.654	1.261		695
800	4.122	34.165	4.062	27.116	36.216	44.912	101.401	1.368		794
900	3.834	34.259	3.768	27.220	36.335	45.044	91.912	1.464		893
1000	3.571	34.346	3.499	27.316	36.443	45.164	83.201	1.552		992
1100	3.396	34.407	3.317	27.382	36.518	45.247	77.395	1.632		1090
1200	3.225	34.452	3.140	27.435	36.579	45.316	72.783	1.707		1189
1300	3.034	34.499	2.942	27.491	36.645	45.391	67.749	1.777		1288
1400	2.859	34.530	2.761	27.531	36.695	45.449	64.042	1.843		1387
1500	2.692	34.548	2.588	27.561	36.733	45.496	61.342	1.906		1486
1600	2.532	34.564	2.421	27.588	36.769	45.540	58.827	1.966		1584
1700	2.379	34.578	2.262	27.612	36.802	45.581	56.497	2.024		1683
1800	2.229	34.589	2.106	27.634	36.832	45.619	54.380	2.079		1781
1900	2.112	34.601	1.982	27.653	36.858	45.651	52.542	2.133		1880
2000	1.998	34.610	1.862	27.670	36.881	45.681	50.922	2.184		1978
2100	1.907	34.620	1.764	27.686	36.902	45.706	49.473	2.235		2077
2200	1.840	34.628	1.689	27.698	36.918	45.726	48.436	2.284		2175
2300	1.786	34.635	1.627	27.708	36.932	45.743	47.610	2.332		2273
2400	1.730	34.640	1.564	27.717	36.944	45.758	46.883	2.379		2372
2500	1.685	34.646	1.511	27.725	36.955	45.772	46.203	2.425		2470
2600	1.647	34.650	1.464	27.732	36.964	45.784	45.741	2.471		2568
2700	1.610	34.655	1.419	27.739	36.974	45.796	45.204	2.517		2666
2800	1.574	34.660	1.374	27.746	36.984	45.808	44.665	2.562		2764
2900	1.544	34.663	1.336	27.751	36.991	45.817	44.338	2.606		2862
3000	1.523	34.667	1.306	27.757	36.998	45.826	44.049	2.650		2960
3100	1.501	34.670	1.275	27.761	37.004	45.833	43.809	2.694		3058
3200	1.487	34.673	1.251	27.766	37.010	45.840	43.673	2.738		3156
3300	1.472	34.676	1.227	27.770	37.015	45.847	43.516	2.782		3254
3400	1.466	34.677	1.211	27.771	37.018	45.850	43.626	2.825		3352
3500	1.457	34.679	1.192	27.775	37.022	45.855	43.616	2.869		3450
3600	1.455	34.681	1.180	27.777	37.025	45.859	43.706	2.913		3548
3700	1.454	34.682	1.168	27.779	37.027	45.862	43.880	2.956		3645
3800	1.449	34.684	1.153	27.781	37.031	45.866	43.919	3.000		3743
3900	1.451	34.685	1.144	27.782	37.033	45.869	44.135	3.044		3841
4000	1.454	34.686	1.136	27.784	37.034	45.871	44.366	3.089		3938
4100	1.457	34.687	1.128	27.785	37.036	45.873	44.597	3.133		4036
4200	1.464	34.688	1.124	27.786	37.037	45.874	44.892	3.178		4133
4300	1.470	34.689	1.119	27.788	37.039	45.876	45.171	3.223		4231
4400	1.475	34.689	1.112	27.788	37.040	45.877	45.505	3.268		4328
4500	1.481	34.690	1.107	27.789	37.041	45.879	45.785	3.314		4425
4600	1.489	34.690	1.103	27.789	37.042	45.880	46.170	3.360		4523
4700	1.497	34.691	1.099	27.791	37.043	45.881	46.486	3.406		4620
4800	1.507	34.691	1.096	27.791	37.043	45.881	46.908	3.453		4717
4900	1.517	34.692	1.094	27.792	37.044	45.883	47.262	3.500		4814
5000	1.528	34.692	1.093	27.792	37.044	45.883	47.706	3.547		4912
5100	1.540	34.692	1.092	27.792	37.045	45.883	48.169	3.595		5009
5200	1.552	34.693	1.091	27.793	37.045	45.884	48.566	3.644		5106
5300	1.564	34.693	1.090	27.793	37.046	45.884	49.035	3.692		5203
5400	1.576	34.693	1.089	27.793	37.046	45.884	49.506	3.742		5300
5500	1.588	34.693	1.088	27.793	37.046	45.885	49.979	3.791		5397
5558	1.596	34.693	1.088	27.793	37.046	45.885	50.273	3.821		5453

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUB/LN	DEG C				DB
1	20.094	34.973	5.31	103.0	3.2	0.03	0.0	0.00		20.094	24.718	33.165	41.249	1
54	16.907	34.742	5.59	101.9	3.9	0.10	0.0	0.01		16.898	25.341	33.894	42.077	54
105	14.701	34.509	5.45	94.9	5.6	0.30	3.1	0.24		14.685	25.662	34.296	42.554	105
155	12.818	34.357	5.27	88.3	8.8	0.59	8.0	0.02		12.817	25.932	34.637	42.963	155
205	11.988	34.298	5.37	88.3	11.0	0.69	9.6	0.01		11.961	26.052	34.792	43.149	206
305	10.579	34.217	5.14	81.9	16.9	0.97	13.7	0.00		10.542	26.247	35.046	43.459	306
405	8.897	34.109	4.75	72.9	26.6	1.32	18.9	0.00		8.853	26.444	35.317	43.799	407
505	6.943	34.012	3.74	54.8	46.6	1.86	27.0	0.00		6.895	26.655	35.618	44.186	508
605	5.410	33.999	2.37	33.5	71.3	2.46	35.5	0.00		5.359	26.840	35.878	44.515	609
705	4.432	34.085	1.19	16.4	95.7	2.89	41.5	0.00		4.378	27.019	36.104	44.786	709
805	4.037	34.194	0.57	7.8	111.2	3.06	44.0	0.00		3.977	27.147	36.252	44.952	810
905	3.781	34.285	0.32	4.4	122.9	3.15	45.0	0.00		3.714	27.246	36.363	45.074	911
1005	3.535	34.352	0.25	3.4	131.2	3.21	45.4	0.00		3.462	27.324	36.453	45.176	1013
1255	3.135	34.487	0.62	8.3	142.7	3.16	44.8	0.00		3.045	27.471	36.620	45.361	1266
1505	2.678	34.552	1.13	15.0	152.3	3.05	43.6	0.00		2.572	27.565	36.738	45.502	1519
1754	2.239	34.589	1.46	19.1	166.7	2.97	42.8	0.00		2.118	27.633	36.830	45.616	1771
2004	1.966	34.614D	1.69	22.0	175.0	2.96	42.1	0.00		1.828	27.676	36.889	45.690	2025
2502	1.681	34.649	2.25	29.0	179.2	2.81	40.7	0.00		1.501	27.728	36.958	45.776	2532
3002	1.517	34.669	2.83	36.3	173.4	2.68	39.1	0.00		1.295	27.759	37.001	45.829	3041
3496	1.458	34.682	3.21	41.1	166.1	2.59	38.0	0.00		1.188	27.777	37.024	45.858	3546
3994	1.457	34.687	3.41	43.6	162.4	2.55	37.4	0.00		1.133	27.785	37.035	45.872	4056
4492	1.487	34.691D					37.0	0.02		1.104	27.790	37.042	45.880	4568
4995	1.538	34.693D	3.62	46.2	154.7	2.45	36.7	0.00		1.091	27.792	37.045	45.884	5085
5452	1.597	34.693	3.66	46.7	154.0	2.47	36.7	0.00		1.089	27.792	37.045	45.884	5556

MARATHON 2 STA. 30



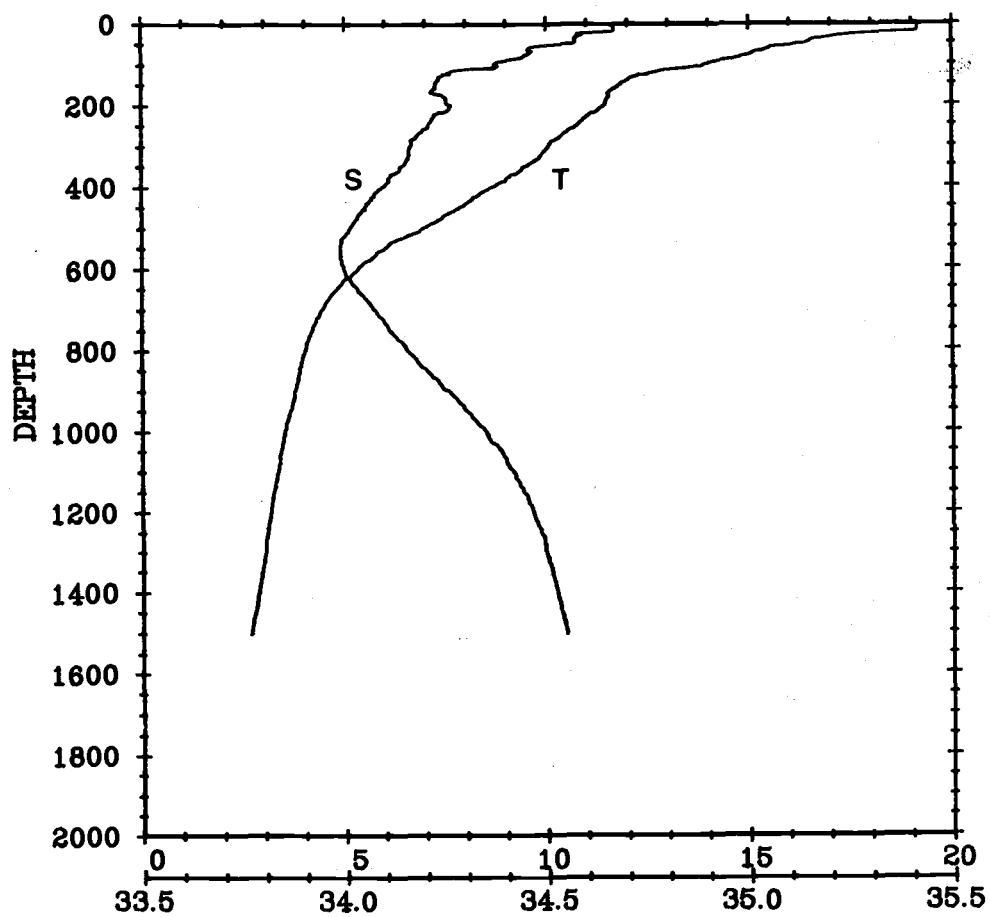
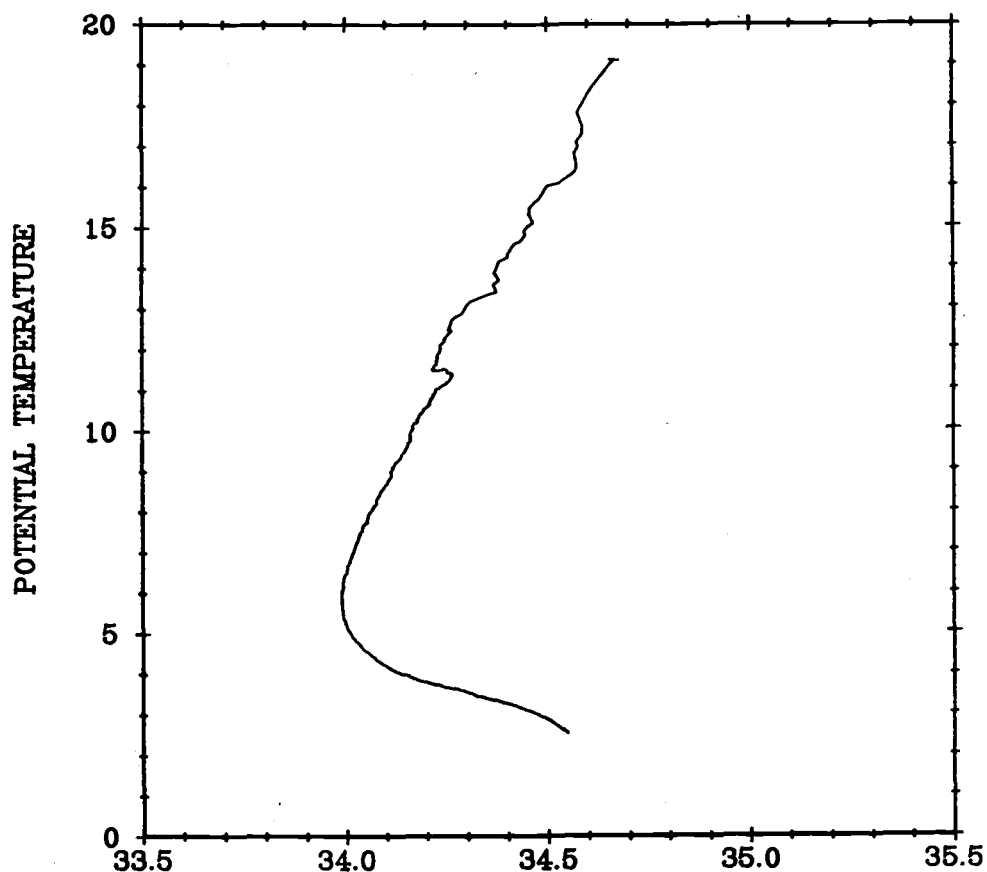
R/V THOMAS WASHINGTON MARATHON LEG II STATION 31

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
31 50.3N	151 59.2W	5/14/84	1718	5219	120	10	20.6	16.7	1028.8

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP	DEG C				CL/TON		M
DB	DEG C							
0	19.133	34.663	19.133	24.731	33.212	41.327	0.000	0
20	18.483	34.631	18.480	24.872	33.374	41.509	0.063	19
40	16.666	34.568	16.660	25.264	33.827	42.019	0.121	39
60	15.599	34.477	15.590	25.439	34.040	42.269	0.173	59
80	14.809	34.438	14.797	25.584	34.214	42.469	0.223	79
100	13.902	34.373	13.888	25.727	34.391	42.679	0.270	99
150	11.791	34.225	11.772	26.031	34.779	43.146	0.377	149
200	11.400	34.256	11.375	26.128	34.893	43.273	0.475	198
250	10.741	34.207	10.711	26.210	35.002	43.409	0.570	248
300	10.058	34.164	10.023	26.296	35.117	43.552	0.661	298
350	9.520	34.143	9.481	26.370	35.215	43.671	0.749	347
400	8.718	34.097	8.675	26.462	35.343	43.833	0.832	397
450	7.905	34.051	7.860	26.549	35.468	43.993	0.912	447
500	7.014	34.014	6.967	26.647	35.607	44.171	0.988	496
600	5.361	33.995	5.312	26.843	35.883	44.522	1.124	595
700	4.446	34.067	4.393	27.001	36.088	44.770	1.242	695
800	4.015	34.150	3.956	27.115	36.221	44.922	1.350	794
900	3.749	34.243	3.684	27.216	36.335	45.048	1.447	893
1000	3.500	34.339	3.428	27.317	36.448	45.173	1.534	992
1100	3.329	34.407	3.251	27.389	36.528	45.260	1.614	1090
1200	3.142	34.461	3.057	27.450	36.598	45.339	1.688	1189
1300	2.997	34.494	2.906	27.490	36.646	45.394	1.757	1288
1400	2.837	34.520	2.739	27.525	36.690	45.446	1.823	1387
1500	2.666	34.543	2.562	27.559	36.733	45.497	1.886	1486
1516	2.640	34.547	2.535	27.565	36.740	45.506	1.896	1501

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP	ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
M	DEG C												
2	19.184	34.666	5.40	102.8	3.6	0.15	0.0	0.00	19.184	24.720	33.199	41.313	2
44	16.500	34.550	5.80	104.8	3.8	0.13	0.0	0.00	16.493	25.289	33.858	42.056	44
84	14.980	34.439	5.75	100.7	4.3	0.21	0.8	0.19	14.969	25.547	34.171	42.420	84
124	12.896	34.275	5.48	91.8	7.6	0.54	6.5	0.03	12.879	25.856	34.560	42.885	124
163	11.576	34.212	5.51	89.9	10.9	0.72	9.3	0.01	11.555	26.061	34.818	43.193	163
203	11.350	34.262	5.45	98.4	12.6	0.78	10.6	0.01	11.324	26.142	34.908	43.291	204
253	10.638	34.203	5.50	87.8	14.2	0.87	11.9	0.01	10.607	26.225	35.021	43.432	254
303	10.015	34.162	5.34	84.0	17.8	1.00	14.0	0.01	9.980	26.301	35.125	43.561	304
404	8.504	34.084	4.67	71.0	29.5	1.40	20.0	0.00	8.461	26.485	35.376	43.875	406
505	6.753	34.004	3.54	51.7	48.9	1.97	28.2	0.00	6.706	26.674	35.647	44.222	508
605	5.183	34.003	2.24	31.5	74.4	2.55	36.3	0.00	5.133	26.869	35.918	44.566	609
704	4.370	34.077	1.00	13.8	95.3	2.87	41.2	0.00	4.316	27.019	36.108	44.793	708
804	3.966	34.157	0.76	10.4	110.0	3.02	43.5	0.00	3.906	27.125	36.234	44.938	809
904	3.706	34.260	0.37	5.0	122.2	3.14	44.9	0.00	3.640	27.234	36.355	45.070	910
1004	3.470	34.352	0.25	3.4	132.8	3.20	45.5	0.00	3.398	27.331	36.463	45.188	1012
1253	3.037	34.484	0.51	6.8	145.9		45.1	0.01	2.948	27.478	36.632	45.378	1263
1501	2.640	34.548	1.05	13.9	154.2	3.03	43.9	0.00	2.535	27.565	36.740	45.506	1515

MARATHON 2 STA. 31

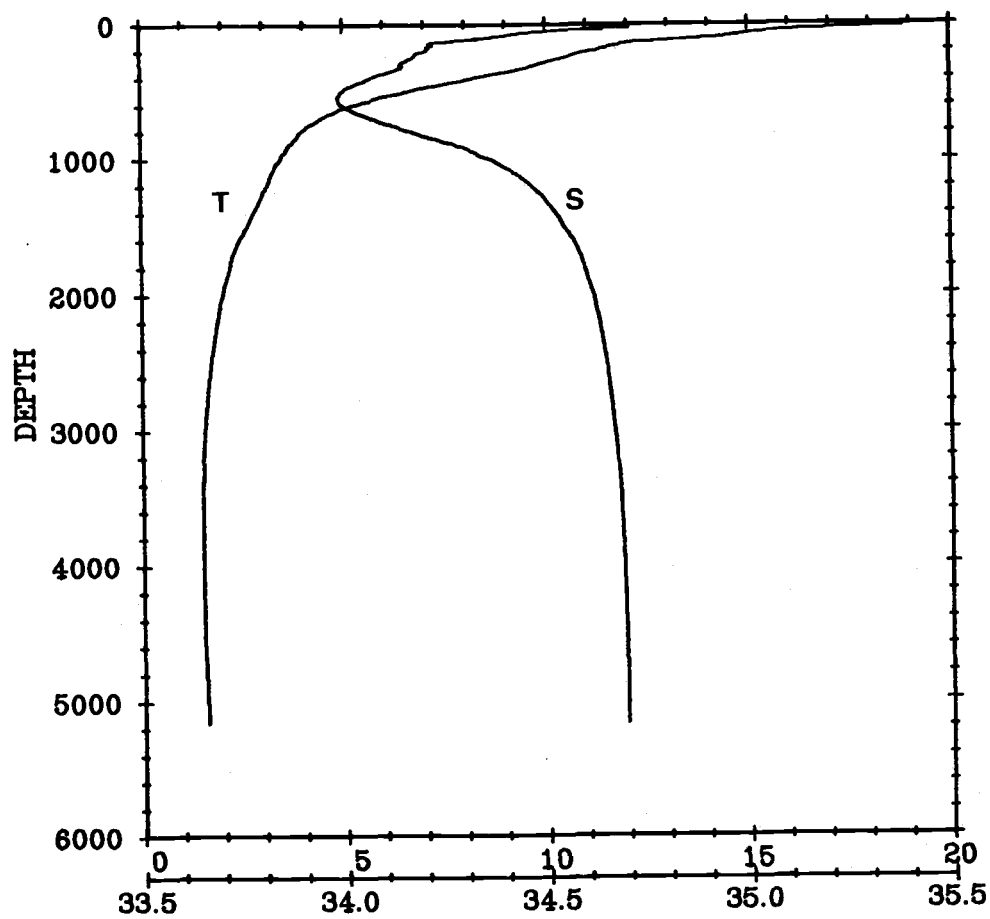
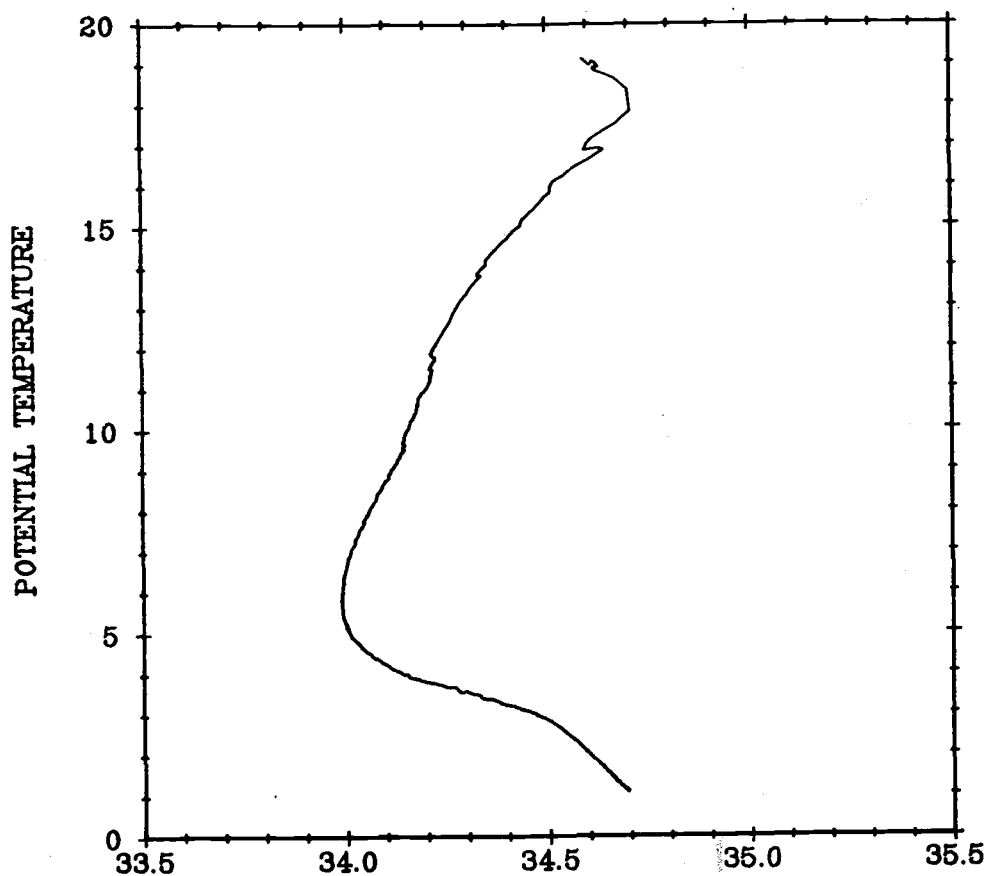


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
32 12.3N	152 0.4W	5/14/84	2306	5293	150	11	23.9	19.4	1027.4

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	19.019	34.612	19.019	24.721	33.206	41.325	321.340	0.000	0
20	18.764	34.630	18.760	24.800	33.293	41.420	314.509	0.064	19
40	17.114	34.619	17.107	25.197	33.745	41.922	277.358	0.123	39
60	15.649	34.486	15.640	25.435	34.034	42.261	255.332	0.176	59
80	14.866	34.415	14.854	25.554	34.182	42.436	244.563	0.226	79
100	14.317	34.362	14.302	25.631	34.281	42.554	237.715	0.274	99
150	11.922	34.219	11.903	26.001	34.745	43.106	203.386	0.385	149
200	11.190	34.205	11.165	26.127	34.901	43.290	192.472	0.483	198
250	10.487	34.173	10.457	26.228	35.031	43.448	183.768	0.578	248
300	9.830	34.145	9.796	26.319	35.151	43.594	175.881	0.667	298
350	9.168	34.122	9.130	26.410	35.271	43.742	167.853	0.753	347
400	8.246	34.068	8.205	26.512	35.414	43.924	158.488	0.835	397
450	7.441	34.028	7.397	26.598	35.538	44.083	150.438	0.912	447
500	6.605	33.997	6.559	26.688	35.668	44.250	141.807	0.985	496
600	5.280	33.998	5.231	26.854	35.899	44.542	125.757	1.119	595
700	4.449	34.071	4.396	27.006	36.091	44.772	111.320	1.238	695
800	3.945	34.169	3.886	27.137	36.247	44.951	99.063	1.343	794
900	3.652	34.278	3.587	27.253	36.377	45.094	88.416	1.437	893
1000	3.438	34.359	3.367	27.339	36.473	45.200	80.715	1.521	991
1100	3.235	34.421	3.158	27.408	36.552	45.289	74.511	1.599	1090
1200	3.101	34.465	3.017	27.457	36.607	45.350	70.390	1.671	1189
1300	2.939	34.498	2.848	27.498	36.657	45.408	66.722	1.740	1288
1400	2.775	34.524	2.678	27.534	36.702	45.461	63.506	1.805	1387
1500	2.621	34.543	2.520	27.563	36.739	45.506	60.902	1.867	1485
1600	2.436	34.566	2.327	27.598	36.784	45.560	57.552	1.926	1584
1700	2.285	34.582	2.169	27.623	36.818	45.602	55.093	1.983	1683
1800	2.178	34.593	2.056	27.641	36.842	45.631	53.479	2.037	1781
1900	2.090	34.602	1.961	27.656	36.862	45.656	52.204	2.090	1880
2000	2.001	34.613	1.865	27.672	36.883	45.682	50.719	2.141	1978
2100	1.933	34.621	1.789	27.684	36.899	45.702	49.720	2.191	2077
2200	1.871	34.627	1.720	27.695	36.913	45.720	48.895	2.241	2175
2300	1.815	34.634	1.656	27.705	36.927	45.737	48.049	2.289	2273
2400	1.766	34.639	1.599	27.713	36.938	45.751	47.415	2.337	2371
2500	1.712	34.645	1.537	27.723	36.951	45.767	46.624	2.384	2470
2600	1.675	34.649	1.492	27.729	36.960	45.778	46.191	2.430	2568
2700	1.637	34.654	1.445	27.736	36.970	45.790	45.635	2.476	2666
2800	1.608	34.657	1.408	27.742	36.977	45.800	45.340	2.522	2764
2900	1.576	34.661	1.367	27.748	36.986	45.810	44.919	2.567	2862
3000	1.550	34.664	1.332	27.753	36.992	45.819	44.639	2.612	2960
3100	1.528	34.668	1.301	27.758	36.999	45.827	44.332	2.656	3058
3200	1.506	34.671	1.270	27.763	37.006	45.835	44.002	2.700	3156
3300	1.492	34.674	1.246	27.767	37.011	45.842	43.948	2.744	3254
3400	1.480	34.676	1.224	27.770	37.015	45.847	43.902	2.788	3352
3500	1.474	34.678	1.208	27.773	37.019	45.852	43.839	2.832	3450
3600	1.469	34.680	1.193	27.775	37.022	45.856	43.987	2.876	3547
3700	1.465	34.682	1.179	27.778	37.026	45.860	44.047	2.920	3645
3800	1.464	34.683	1.168	27.779	37.028	45.863	44.222	2.964	3743
3900	1.462	34.685	1.155	27.782	37.031	45.867	44.307	3.009	3840
4000	1.465	34.685	1.147	27.782	37.032	45.868	44.611	3.053	3938
4100	1.466	34.686	1.137	27.784	37.034	45.870	44.811	3.098	4035
4200	1.471	34.687	1.131	27.785	37.036	45.872	45.075	3.143	4133
4300	1.475	34.687	1.123	27.786	37.037	45.874	45.393	3.188	4230
4400	1.482	34.689	1.119	27.787	37.039	45.876	45.621	3.233	4328
4500	1.488	34.689	1.113	27.788	37.040	45.877	45.973	3.279	4425
4600	1.495	34.690	1.108	27.789	37.041	45.879	46.272	3.325	4522
4700	1.503	34.690	1.104	27.793	37.041	45.879	46.659	3.372	4620
4800	1.510	34.691	1.099	27.790	37.043	45.881	46.960	3.419	4717
4900	1.520	34.691	1.097	27.791	37.043	45.881	47.385	3.466	4814
5000	1.531	34.691	1.096	27.791	37.043	45.882	47.829	3.511	4911
5100	1.543	34.692	1.095	27.792	37.044	45.883	48.223	3.561	5008
5200	1.555	34.692	1.094	27.792	37.044	45.883	48.690	3.610	5105
5262	1.563	34.692	1.094	27.792	37.044	45.883	48.991	3.640	5165

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	19.035	34.619	5.45	103.4	3.9	0.12	0.0	0.00		19.035	24.722	33.207	41.325	1
56	16.159	34.560	5.77	103.5	4.4	0.12	0.0	0.00		16.150	25.375	33.956	42.165	56
106	13.232	34.278D								13.217	25.791	34.482	42.794	106
156	11.487	34.199	5.51	89.6	10.7	0.70	9.3	0.01		11.467	26.067	34.828	43.206	156
305	9.820	34.145	5.06	79.3	19.7	1.10	15.7	0.01		9.785	26.321	35.153	43.597	306
402	8.360	34.074	4.55	69.0	31.1	1.44	20.8	0.01		8.318	26.499	35.396	43.901	404
500	6.630	34.000	3.50	50.9	49.7	1.98	28.5	0.01		6.584	26.687	35.666	44.247	503
598	5.178	34.003	2.21	31.1	75.0	2.53	36.3	0.00		5.129	26.870	35.919	44.567	602
696	4.407	34.080	1.22	16.8	94.9	2.87	41.3	0.00		4.354	27.017	36.104	44.787	701
795	3.891	34.182	0.61	8.3	113.4	3.05	43.9	0.00		3.833	27.152	36.265	44.971	800
893	3.652	34.267	0.32	4.3	126.6	3.13	44.9	0.00		3.587	27.245	36.368	45.086	899
989	3.487	34.337	0.24	3.2	131.2	3.21	45.3	0.00		3.416	27.317	36.448	45.173	997
1237	3.033	34.478	0.46	6.1	145.6	3.18	45.3	0.00		2.945	27.473	36.627	45.373	1247
1484	2.638	34.543	0.90	11.9	155.7	3.10	44.2	0.00		2.534	27.562	36.737	45.502	1498
1734	2.234	34.589	1.39	22.5	165.3	2.98	42.8	0.00		2.115	27.633	36.831	45.617	1751
1984	1.975	34.616	1.73	28.9	170.2	2.91	42.0	0.00		1.838	27.677	36.889	45.689	2005
2482	1.691	34.647	2.24	35.3	176.1	2.80	40.7	0.00		1.515	27.726	36.955	45.772	2512
2980	1.534	34.666	2.75	40.3	171.4	2.71	39.3	0.00		1.314	27.755	36.996	45.823	3019
3457	1.471	34.679	3.15	40.3	165.4	2.60	38.2	0.00		1.204	27.773	37.020	45.853	3507
3957	1.464	34.685	3.37	43.1	160.6	2.55	37.5	0.00		1.144	27.782	37.032	45.868	4019
4452	1.491	34.689			155.9		37.1	0.02		1.111	27.788	37.040	45.877	4537
4964	1.537	34.690	3.60	46.0	152.2	2.45	36.8	0.00		1.094	27.790	37.042	45.881	5054
5166	1.563	34.691	3.62	46.2	150.9	2.49	36.7	0.00		1.094	27.791	37.043	45.882	5262

MARATHON 2 STA. 32

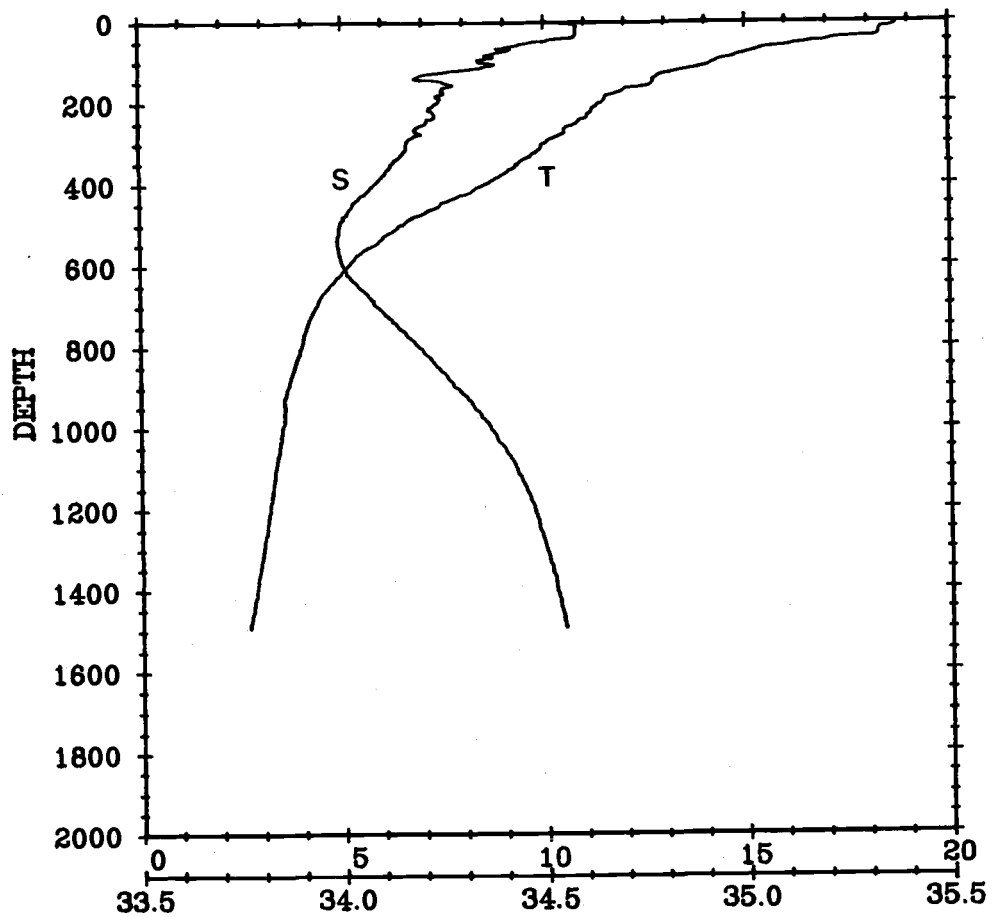
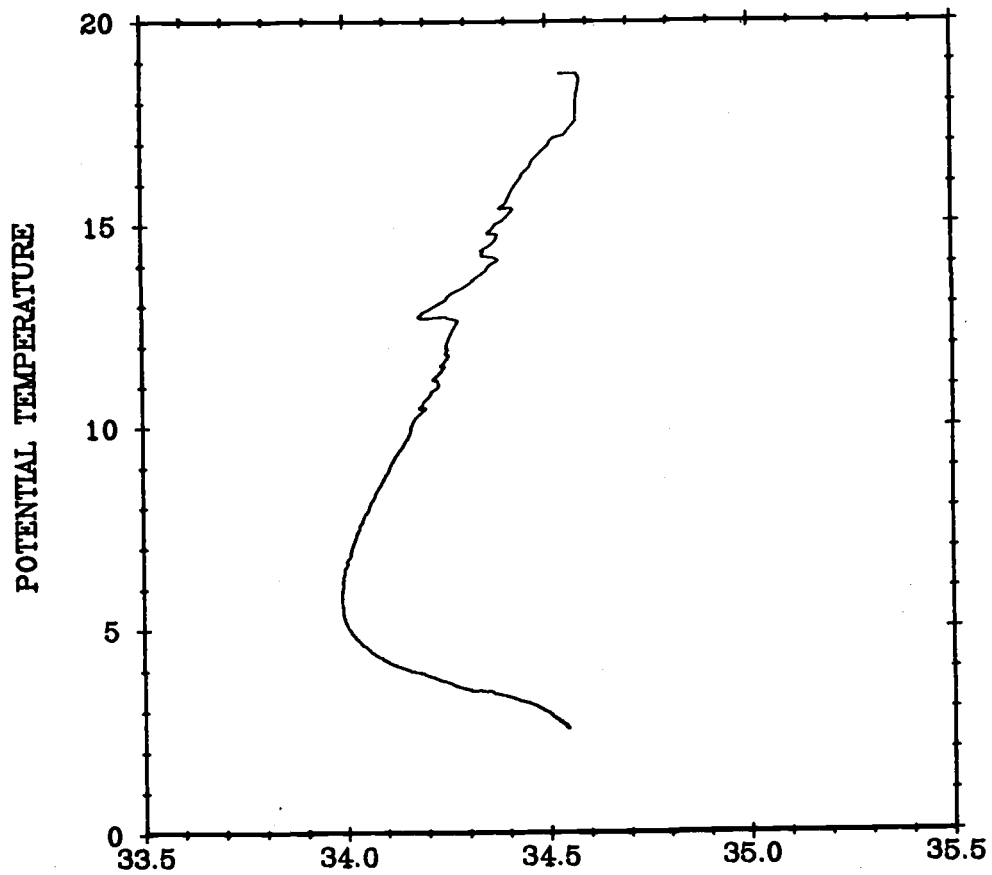


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
32 32.8N	152 0.6W	5/15/84	530	5229	170	8	19.4	18.3	1027.4

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP							
DB	DEG C	DEG C				CL/TON		M
0	18.696	34.556	24.760	33.256	41.386	117.628	0.000	0
20	18.396	34.579	24.853	33.359	41.497	109.426	0.063	19
40	17.616	34.548	25.022	33.554	41.717	294.032	0.123	39
60	15.968	34.431	25.320	33.909	42.126	266.235	0.179	59
80	14.946	34.378	25.508	34.134	42.385	248.936	0.231	79
100	14.252	34.356	25.640	34.292	42.568	236.837	0.279	99
150	12.648	34.243	25.881	34.595	42.929	215.056	0.392	149
200	11.388	34.235	26.114	34.879	43.261	193.758	0.494	198
250	10.781	34.205	26.201	34.992	43.397	186.439	0.589	248
300	10.022	34.162	26.300	35.123	43.559	177.797	0.680	298
350	9.357	34.125	26.382	35.235	43.698	170.645	0.768	347
400	8.536	34.080	26.477	35.366	43.864	162.001	0.851	397
450	7.442	34.027	26.597	35.517	44.082	150.527	0.929	447
500	6.488	33.995	26.702	35.687	44.275	140.377	1.002	496
600	5.167	34.001	26.870	35.920	44.568	124.151	1.134	595
700	4.356	34.083	27.025	36.115	44.801	109.341	1.251	695
800	3.966	34.186	27.148	36.257	44.960	98.041	1.354	794
900	3.635	34.274	27.252	36.376	45.095	88.520	1.448	893
1000	3.496	34.360	27.334	36.465	45.190	81.302	1.532	991
1100	3.318	34.424	27.403	36.543	45.275	75.239	1.611	1090
1200	3.168	34.468	27.453	36.600	45.339	70.940	1.684	1189
1300	3.012	34.497	27.491	36.646	45.393	67.641	1.753	1288
1400	2.829	34.522	27.528	36.693	45.449	64.281	1.819	1387
1500	2.657	34.543	27.560	36.734	45.499	61.299	1.882	1485
1508	2.647	34.544	27.562	36.737	45.502	61.153	1.887	1493

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU/IN	DEG C				DB
1	18.584	34.580	5.51	103.6	5.0	0.12	0.0	0.00	18.584	24.906	33.105	41.438	1
52	15.850	34.410	5.99	106.7	5.4	0.16	0.0	0.00	15.842	25.330	33.924	42.145	52
102	14.239	34.366	5.73	98.8	6.1	0.32	2.1	0.49	14.224	25.651	34.303	42.579	102
134	12.806	34.194	5.75	96.1	6.9	0.45	4.5	0.03	12.788	25.811	34.520	42.849	134
167	11.986	34.244	5.47	89.9	10.6	0.69	8.9	0.01	11.964	26.009	34.750	43.108	167
201	11.196	34.216	5.53	89.4	12.6	0.77	10.4	0.01	11.171	26.135	34.907	43.296	202
250	10.588	34.188	5.41	86.2	15.0	0.89	12.3	0.01	10.558	26.222	35.021	43.434	251
299	9.891	34.158	5.09	79.9	20.0	1.10	15.6	0.01	9.956	26.319	35.148	43.589	300
402	8.427	34.073	4.65	70.6	30.5	1.45	20.6	0.01	8.385	26.488	35.382	43.885	404
497	6.512	33.997	3.42	49.6	52.9	2.06	28.8	0.00	6.467	26.700	35.684	44.271	500
590	5.234	34.000	2.30	32.4	75.0	2.54	35.7	0.00	5.186	26.861	35.907	44.552	594
692	4.434	34.072	1.30	18.0	94.8	2.88	40.9	0.00	4.381	27.008	36.094	44.776	696
800	3.983	34.181	0.60	8.2	113.0	3.10	43.6	0.00	3.924	27.143	36.250	44.952	805
900	3.642	34.272	0.32	4.3	125.8	3.17	44.7	0.00	3.577	27.250	36.374	45.092	907
999	3.473	34.361	0.20	2.7	134.1		45.3	0.01	3.401	27.337	36.469	45.195	1007
1247	3.092	34.483	0.50	6.7	144.9	3.17	45.0	0.00	3.003	27.472	36.623	45.366	1257
1493	2.647	34.545	0.91	12.0	156.8	3.11	44.2	0.00	2.543	27.562	36.737	45.502	1507

MARATHON 2 STA. 33

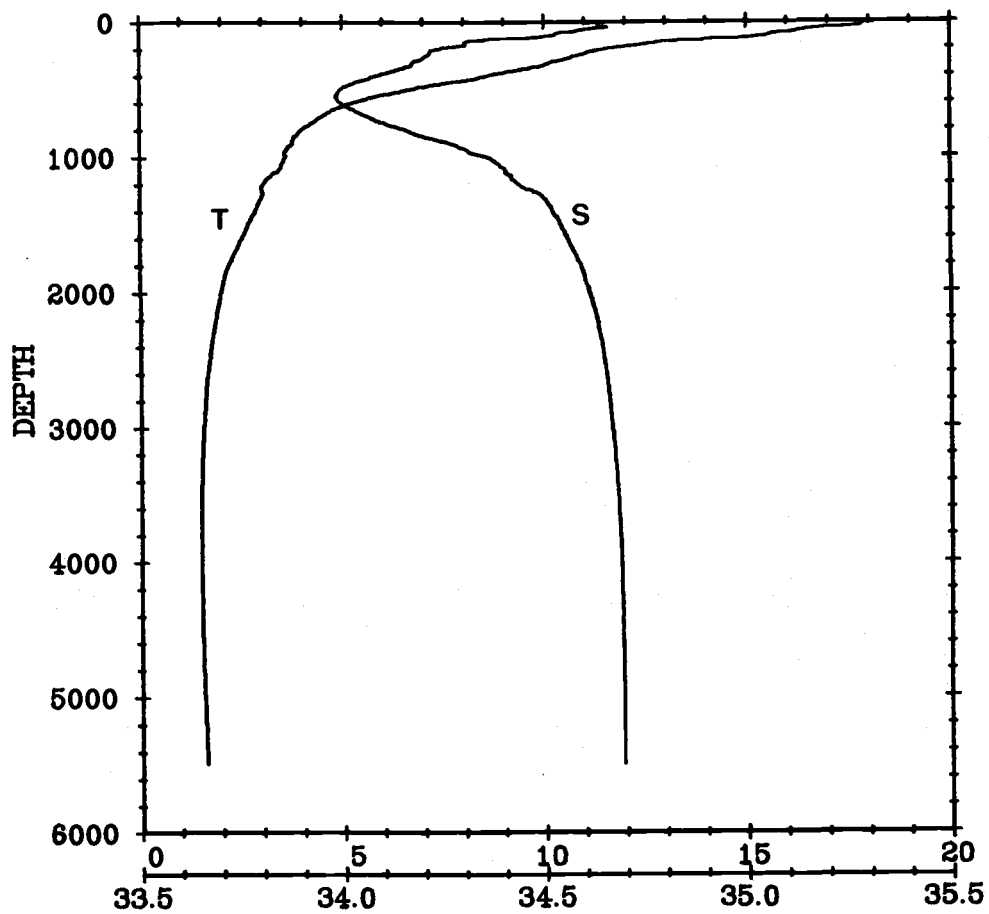
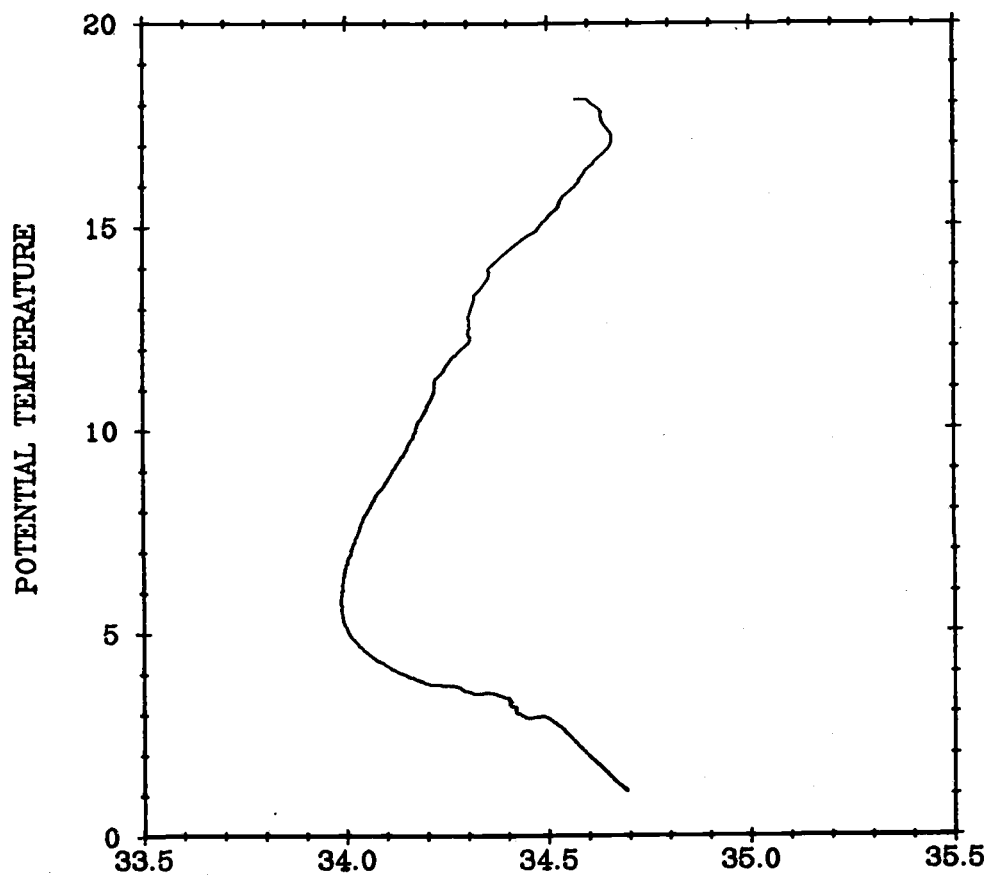


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
32 54.3N	152 2.7W	5/15/84	1212	5503	170	8	18.9	17.8	1025.7

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	18.119	34.590	18.119	24.930	33.444	41.591	301.455	0.000	0
20	17.892	34.624	17.889	25.012	33.534	41.687	294.284	0.060	19
40	17.454	34.641	17.447	25.133	33.668	41.835	283.518	0.117	39
60	16.563	34.611	16.553	25.322	33.888	42.083	266.161	0.172	59
80	15.944	34.559	15.931	25.425	34.013	42.229	256.935	0.225	79
100	15.501	34.523	15.496	25.498	34.102	42.333	250.594	0.275	99
150	13.074	34.313	13.053	25.851	34.548	42.866	218.026	0.393	149
200	11.551	34.245	11.526	26.092	34.850	43.225	195.927	0.496	198
250	10.832	34.210	10.802	26.196	34.984	43.388	186.951	0.592	248
300	10.218	34.179	10.183	26.280	35.095	43.523	179.815	0.683	298
350	9.527	34.147	9.498	26.372	35.216	43.672	171.763	0.771	347
400	8.609	34.088	8.567	26.472	35.358	43.853	162.520	0.855	397
450	7.659	34.034	7.615	26.572	35.501	44.037	153.138	0.934	447
500	6.677	33.997	6.631	26.679	35.655	44.234	142.785	1.008	496
600	5.268	33.994	5.219	26.853	35.897	44.541	125.916	1.142	595
700	4.498	34.056	4.444	26.989	36.072	44.751	113.011	1.262	695
800	3.989	34.149	3.930	27.116	36.224	44.927	101.053	1.369	794
900	3.753	34.256	3.688	27.226	36.345	45.057	91.202	1.465	893
1000	3.584	34.347	3.512	27.316	36.442	45.162	83.276	1.552	992
1100	3.427	34.401	3.348	27.375	36.509	45.236	78.198	1.633	1090
1200	3.045	34.432	2.961	27.435	36.589	45.336	72.189	1.708	1189
1300	3.002	34.494	2.911	27.489	36.645	45.393	67.746	1.778	1288
1400	2.840	34.519	2.742	27.524	36.689	45.445	64.630	1.844	1387
1500	2.672	34.538	2.568	27.555	36.728	45.493	61.843	1.907	1485
1600	2.519	34.554	2.409	27.581	36.763	45.535	59.408	1.968	1584
1700	2.362	34.570	2.245	27.607	36.798	45.578	56.883	2.026	1683
1800	2.203	34.586	2.080	27.634	36.833	45.621	54.290	2.082	1781
1900	2.078	34.599	1.949	27.655	36.861	45.656	52.279	2.135	1880
2000	2.002	34.608	1.866	27.668	36.879	45.679	51.116	2.187	1978
2100	1.924	34.617	1.780	27.682	36.897	45.701	49.900	2.237	2077
2200	1.858	34.626	1.707	27.695	36.914	45.721	48.805	2.287	2175
2300	1.804	34.633	1.645	27.705	36.928	45.738	47.982	2.335	2273
2400	1.744	34.639	1.577	27.715	36.941	45.755	47.134	2.382	2371
2500	1.704	34.644	1.529	27.722	36.951	45.767	46.593	2.429	2470
2600	1.660	34.649	1.477	27.730	36.962	45.781	45.984	2.476	2568
2700	1.619	34.654	1.428	27.738	36.972	45.794	45.396	2.521	2666
2800	1.593	34.657	1.393	27.743	36.979	45.802	45.138	2.567	2764
2900	1.571	34.660	1.362	27.747	36.985	45.810	44.922	2.612	2862
3000	1.548	34.664	1.330	27.753	36.993	45.819	44.611	2.656	2960
3100	1.530	34.667	1.303	27.757	36.998	45.826	44.432	2.701	3058
3200	1.510	34.670	1.274	27.761	37.004	45.834	44.216	2.745	3156
3300	1.495	34.673	1.249	27.766	37.010	45.840	44.062	2.789	3254
3400	1.483	34.675	1.227	27.769	37.014	45.846	44.017	2.833	3352
3500	1.475	34.677	1.210	27.772	37.018	45.850	44.040	2.877	3450
3600	1.469	34.679	1.193	27.774	37.022	45.855	44.058	2.921	3547
3700	1.465	34.681	1.179	27.777	37.025	45.859	44.118	2.966	3645
3800	1.463	34.682	1.167	27.779	37.027	45.862	44.277	3.010	3743
3900	1.463	34.684	1.156	27.781	37.030	45.865	44.394	3.054	3840
4000	1.466	34.685	1.148	27.782	37.032	45.868	44.627	3.099	3938
4100	1.468	34.686	1.139	27.784	37.034	45.870	44.843	3.143	4035
4200	1.472	34.686	1.132	27.784	37.035	45.871	45.162	3.188	4133
4300	1.478	34.687	1.126	27.785	37.036	45.873	45.443	3.234	4230
4400	1.484	34.688	1.121	27.786	37.038	45.875	45.724	3.279	4328
4500	1.490	34.689	1.115	27.788	37.039	45.877	46.006	3.325	4425
4600	1.497	34.689	1.110	27.788	37.040	45.878	46.376	3.371	4522
4700	1.504	34.690	1.105	27.789	37.041	45.879	46.677	3.418	4620
4800	1.513	34.690	1.102	27.789	37.042	45.880	47.082	3.465	4717
4900	1.522	34.690	1.099	27.790	37.042	45.880	47.490	3.512	4814
5000	1.532	34.691	1.097	27.791	37.043	45.881	47.846	3.560	4911
5100	1.543	34.691	1.095	27.791	37.043	45.882	48.292	3.608	5008
5200	1.555	34.691	1.094	27.791	37.043	45.882	48.759	3.656	5105
5300	1.567	34.692	1.093	27.792	37.044	45.883	49.159	3.705	5202
5400	1.579	34.692	1.092	27.792	37.045	45.883	49.630	3.755	5299
5500	1.590	34.692	1.090	27.792	37.045	45.883	50.085	3.804	5396
5600	1.600	34.692	1.087	27.792	37.045	45.884	50.522	3.855	5493
5600	1.600	34.692	1.087	27.792	37.045	45.884	50.522	3.855	5493

NISKIN BOTTLE DATA													
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C			PRESS
1	18.129		5.54		3.8	0.11	0.0	0.00		18.129			DB
52	16.587	34.609D	5.75	104.1	3.6	0.11	0.0	0.00		16.579	25.314	33.879	42.074
102	15.374	34.510D	5.62	99.2	4.4	0.18	0.4	0.49		15.358	25.516	34.125	42.361
152	12.808	34.286D	5.45	91.2	8.1	0.56	6.9	0.02		12.787	25.883	34.590	42.918
202	11.474	34.241D	5.52	89.7	11.7	0.73	9.9	0.01		11.448	26.103	34.864	43.242
302	10.277	34.182D	5.32	84.2	17.0	0.96	13.5	0.01		10.241	26.272	35.084	43.510
402	8.789	34.099D	4.70	71.9	27.9	1.35	19.6	0.00		8.746	26.453	35.331	43.818
503	6.999	34.005D	3.83	56.2	45.2	1.85	26.8	0.00		6.951	26.642	35.603	44.168
603	5.419	33.989D	2.44	34.5	70.7	2.43	35.2	0.00		5.369	26.831	35.868	44.505
703	4.454	34.061D	1.40	19.3	92.9	2.81	40.7	0.00		4.400	26.997	36.082	44.763
803	3.968	34.154D	0.77	10.5	110.4	2.99	43.3	0.00		3.908	27.122	36.231	44.935
904	3.754	34.260D	0.38	5.2	121.3	3.11	44.7	0.00		3.688	27.229	36.347	45.060
1003	3.592	34.355D	0.24	3.3	129.9	3.19	45.1	0.00		3.519	27.321	36.447	45.167
1253	3.005	34.480D	0.52	6.9	148.3	3.16	45.1	0.00		2.916	27.478	36.633	45.381
1503	2.619	34.543D	0.94	12.4	156.3	3.08	44.1	0.00		2.514	27.563	36.740	45.506
1753	2.204	34.586D			168.4	2.99	43.0	0.00		2.084	27.633	36.832	45.621
2003	1.954	34.612D	1.66	21.6	174.6	2.91	42.2	0.00		1.826	27.674	36.887	45.698
2501	1.686	34.646D	2.25	29.0	177.7	2.80	40.6	0.00		1.508	27.725	36.955	45.772
3001	1.538	34.664D	2.75	35.3	172.9	2.69	39.2	0.00		1.316	27.754	36.994	45.821
3500	1.474	34.678D	3.15	40.3	166.0	2.60	38.0	0.00		1.203	27.773	37.019	45.852
3998	1.467	34.686D	3.40	43.5	161.2	2.54	37.4	0.00		1.142	27.783	37.033	45.869
4498	1.496	34.689D			155.9		37.0	0.01		1.112	27.788	37.039	45.877
4997	1.542	34.692D	3.61	46.1	153.7	2.44	36.6	0.00		1.095	27.792	37.044	45.882
5492	1.601	34.692D	3.67	46.9	152.1	2.46	36.5	0.00		1.087	27.792	37.045	45.884

MARATHON 2 STA. 34

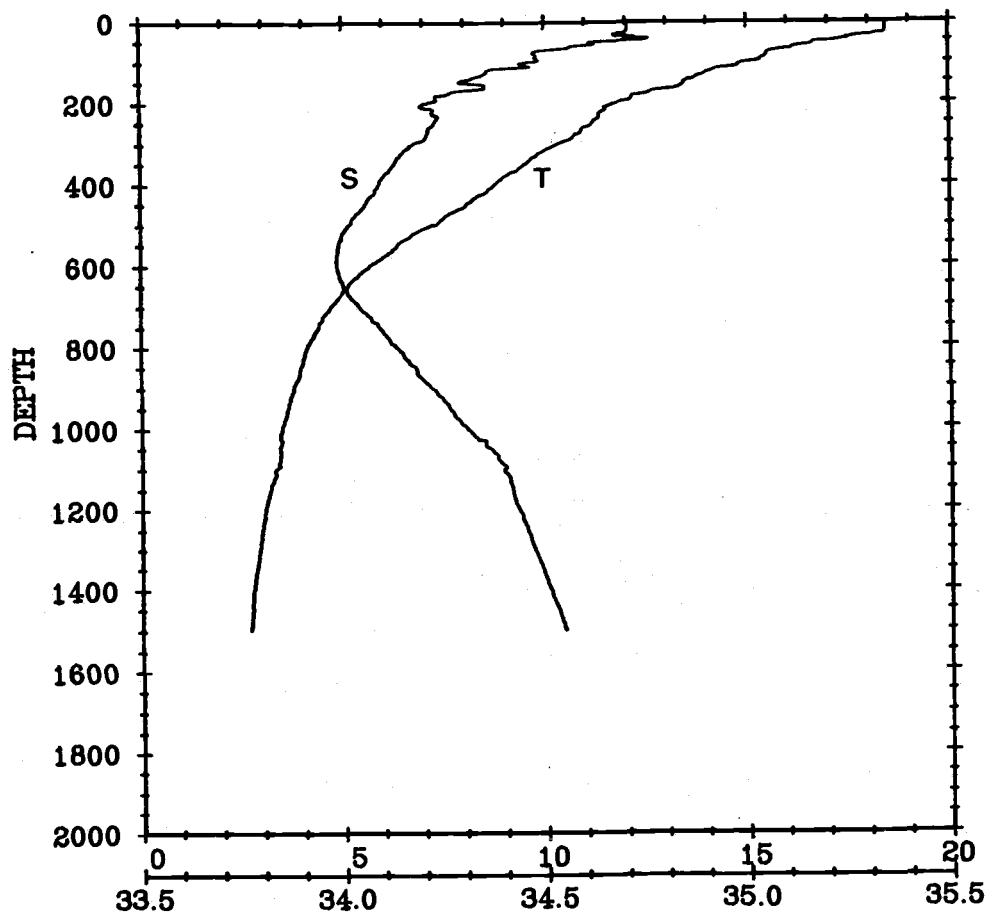
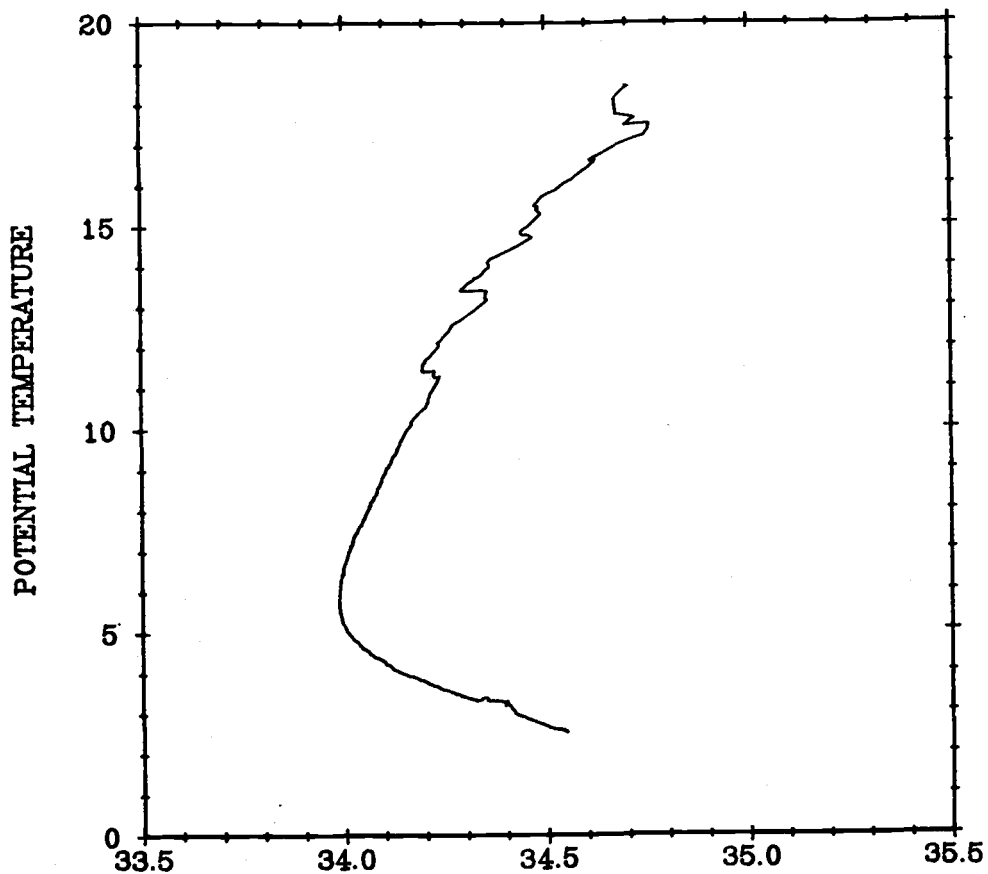


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
33 14.4N	152 0.6W	5/15/84	1854	5456	180	15	20.0	18.9	1023.4

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	18.427	34.702	18.427	24.939	33.442	41.578	300.574	0.000	0
20	18.389	34.702	18.386	24.949	33.453	41.591	300.303	0.060	19
40	17.568	34.702	17.561	25.152	33.683	41.845	281.697	0.118	39
60	16.353	34.587	16.343	25.352	33.926	42.128	263.252	0.173	59
80	15.558	34.485	15.546	25.455	34.058	42.288	254.024	0.225	79
100	15.066	34.462	15.051	25.547	34.168	42.414	245.848	0.274	99
150	13.473	34.318	13.452	25.774	34.456	42.759	225.407	0.392	149
200	11.807	34.212	11.781	26.019	34.767	43.133	202.967	0.499	198
250	11.143	34.226	11.112	26.153	34.928	43.319	191.198	0.598	248
300	10.370	34.180	10.335	26.255	35.063	43.485	182.304	0.691	298
350	9.513	34.127	9.474	26.358	35.204	43.661	173.011	0.780	347
400	8.775	34.089	8.732	26.447	35.326	43.813	165.024	0.865	397
450	8.059	34.056	8.013	26.531	35.442	43.960	157.402	0.945	447
500	7.256	34.017	7.208	26.616	35.565	44.118	149.364	1.022	496
600	5.714	33.985	5.663	26.792	35.816	44.439	132.205	1.163	595
700	4.720	34.038	4.665	26.950	36.022	44.691	116.990	1.287	695
800	4.109	34.128	4.049	27.088	36.190	44.987	103.998	1.398	794
900	3.769	34.214	3.704	27.191	36.310	45.022	94.501	1.497	893
1000	3.460	34.297	3.389	27.288	36.422	45.148	85.561	1.587	991
1100	3.347	34.394	3.269	27.377	36.515	45.246	77.792	1.659	1090
1200	3.038	34.427	2.954	27.432	36.586	45.333	72.478	1.744	1189
1300	2.891	34.466	2.801	27.477	36.639	45.393	68.532	1.814	1288
1400	2.743	34.503	2.646	27.520	36.690	45.451	64.683	1.881	1387
1500	2.662	34.540	2.558	27.557	36.731	45.496	61.579	1.944	1485
1512	2.637	34.544	2.532	27.563	36.738	45.504	61.058	1.952	1497

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SI03 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUS/LN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
0	18.589	34.752	5.48	103.2	3.7	0.10	0.0	0.00	18.589	24.937	33.434	41.564	0	
51	16.933	34.701	5.71	104.1	3.7	0.10	0.0	0.00	16.925	25.303	33.856	42.038	51	
101	14.924	34.447	5.72	100.1	4.5	0.22	0.8	0.46	14.909	25.566	34.192	42.444	101	
134	13.680	34.326	5.59	95.3	5.9	0.39	4.0	0.03	13.661	25.737	34.411	42.707	134	
157	12.922	34.320	5.40	90.6	8.5	0.56	7.0	0.02	12.899	25.887	34.590	42.913	157	
200	11.873	34.223	5.52	90.5	9.8	0.67	8.7	0.01	11.847	26.015	34.760	43.124	201	
249	11.125	34.226	5.50	89.7	13.0	0.79	10.9	0.01	11.094	26.156	34.932	43.324	250	
299	10.481	34.189	5.34	84.9	16.2	0.92	13.0	0.01	10.445	26.242	35.046	43.463	300	
399	8.806	34.091	4.60	70.4	27.8	1.36	19.7	0.01	8.763	26.444	35.321	43.807	401	
497	7.357	34.021	4.03	59.7	41.3	1.73	24.9	0.01	7.308	26.605	35.549	44.098	500	
596	5.766	33.986	2.85	40.6	63.5	2.29	32.8	0.01	5.715	26.787	35.807	44.428	600	
696	4.659	34.042	1.59	22.1	88.4	2.76	39.6	0.00	4.614	26.959	36.033	44.704	700	
795	4.100	34.129	0.89	12.2	105.8	2.98	42.7	0.00	4.040	27.089	36.191	44.889	800	
896	3.786	34.206	0.54	7.3	118.6	3.08	44.1	0.00	3.720	27.183	36.300	45.012	902	
996	3.450	34.299	0.30	4.0	132.1	3.15	45.1	0.00	3.378	27.290	36.424	45.152	1004	
1246	2.943	34.452	0.32	4.3	150.5		45.4	0.00	2.856	27.461	36.620	45.371	1257	
1496	2.635	34.544	0.96	12.7	156.0	3.04	43.8	0.00	2.530	27.563	36.738	45.504	1510	

MARATHON 2 STA. 35

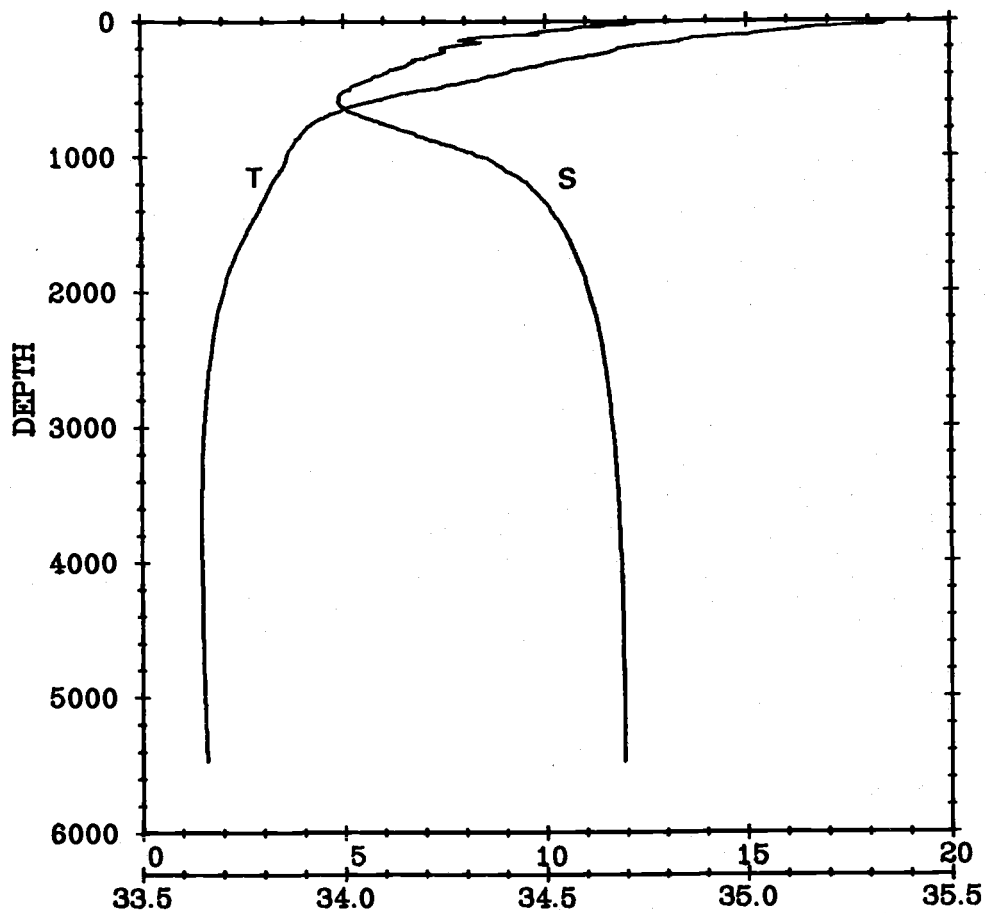
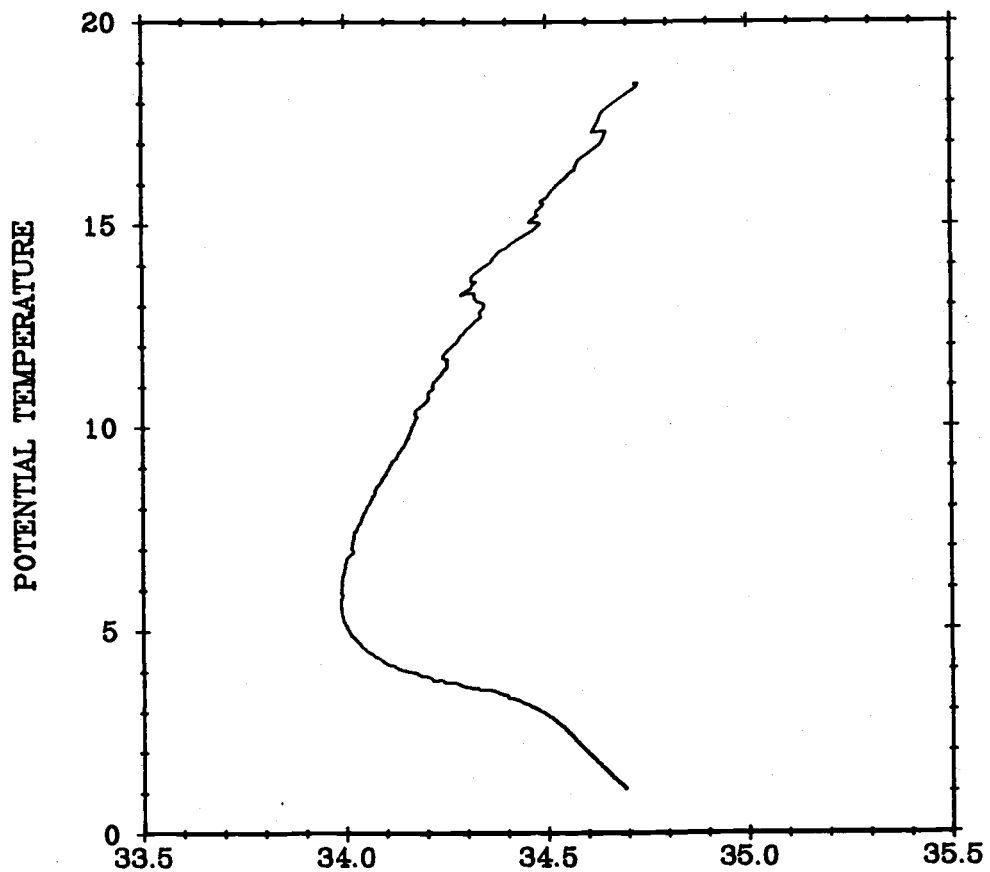


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
33 35.2N	151 59.6W	5/16/84	124	5461	340	12	20.0	17.2	1022.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVa	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	18.458	34.724	18.458	24.948	33.450	41.584	299.709	0.000	0
20	18.372	34.721	18.369	24.968	33.473	41.610	298.515	0.060	19
40	17.466	34.644	17.459	25.132	33.667	41.834	283.576	0.118	39
60	16.413	34.570	16.403	25.325	33.897	42.097	265.828	0.173	59
80	15.688	34.501	15.676	25.438	34.036	42.261	255.642	0.225	79
100	15.083	34.466	15.068	25.546	34.166	42.412	245.912	0.275	99
150	13.298	34.309	13.277	25.802	34.491	42.801	222.651	0.392	149
200	11.887	34.250	11.861	26.033	34.778	43.140	201.626	0.498	198
250	11.243	34.227	11.212	26.136	34.907	43.294	192.888	0.597	248
300	10.297	34.173	10.262	26.262	35.073	43.498	181.587	0.691	298
350	9.500	34.138	9.461	26.369	35.215	43.672	171.989	0.779	347
400	8.828	34.095	8.785	26.444	35.320	43.805	165.407	0.863	397
450	8.094	34.054	8.038	26.526	35.436	43.953	157.924	0.944	447
500	7.293	34.018	7.245	26.611	35.559	44.111	149.817	1.021	496
600	5.668	33.987	5.617	26.800	35.825	44.450	131.467	1.162	595
700	4.628	34.041	4.574	26.963	36.039	44.712	115.666	1.285	695
800	4.069	34.136	4.010	27.098	36.202	44.901	102.940	1.395	794
900	3.801	34.236	3.735	27.205	36.322	45.033	93.237	1.493	893
1000	3.593	34.333	3.521	27.304	36.430	45.150	84.417	1.582	991
1100	3.457	34.395	3.378	27.367	36.500	45.226	78.990	1.663	1090
1200	3.224	34.452	3.139	27.435	36.579	45.316	72.771	1.739	1189
1300	3.066	34.484	2.974	27.476	36.628	45.373	69.229	1.810	1288
1400	2.902	34.511	2.804	27.512	36.674	45.427	65.945	1.878	1387
1500	2.724	34.534	2.619	27.547	36.718	45.480	62.748	1.942	1485
1600	2.551	34.553	2.440	27.578	36.758	45.528	59.859	2.003	1584
1700	2.385	34.568	2.268	27.604	36.793	45.572	57.302	2.062	1683
1800	2.245	34.582	2.122	27.627	36.824	45.611	55.084	2.118	1781
1900	2.114	34.596	1.984	27.649	36.854	45.647	52.932	2.172	1880
2000	2.038	34.605	1.901	27.663	36.872	45.669	51.773	2.225	1978
2100	1.945	34.614	1.801	27.678	36.892	45.695	50.178	2.276	2076
2200	1.861	34.624	1.710	27.693	36.912	45.719	48.988	2.325	2175
2300	1.799	34.631	1.640	27.704	36.927	45.737	48.065	2.374	2273
2400	1.751	34.638	1.584	27.714	36.940	45.753	47.296	2.422	2371
2500	1.706	34.643	1.531	27.721	36.950	45.766	46.691	2.469	2470
2600	1.662	34.648	1.479	27.729	36.961	45.780	46.082	2.515	2568
2700	1.627	34.652	1.436	27.736	36.970	45.791	45.646	2.561	2666
2800	1.596	34.656	1.396	27.742	36.978	45.801	45.250	2.606	2764
2900	1.569	34.660	1.360	27.747	36.986	45.811	44.895	2.651	2862
3000	1.546	34.663	1.328	27.752	36.992	45.818	44.656	2.696	2960
3100	1.522	34.667	1.295	27.758	36.999	45.828	44.320	2.741	3058
3200	1.505	34.670	1.269	27.762	37.005	45.834	44.145	2.785	3156
3300	1.494	34.672	1.248	27.765	37.009	45.840	44.119	2.829	3254
3400	1.486	34.674	1.230	27.768	37.013	45.844	44.132	2.873	3352
3500	1.479	34.677	1.213	27.771	37.018	45.850	44.084	2.917	3449
3600	1.473	34.678	1.197	27.773	37.021	45.854	44.189	2.961	3547
3700	1.470	34.680	1.184	27.776	37.024	45.858	44.265	3.006	3645
3800	1.468	34.681	1.171	27.777	37.026	45.860	44.425	3.050	3742
3900	1.468	34.683	1.161	27.780	37.029	45.864	44.542	3.094	3840
4000	1.470	34.684	1.152	27.781	37.031	45.866	44.761	3.139	3938
4100	1.472	34.685	1.143	27.783	37.033	45.869	44.978	3.184	4035
4200	1.476	34.686	1.136	27.784	37.034	45.871	45.227	3.229	4133
4300	1.480	34.686	1.128	27.784	37.035	45.872	45.546	3.274	4230
4400	1.484	34.687	1.121	27.786	37.037	45.874	45.794	3.320	4327
4500	1.491	34.688	1.116	27.787	37.038	45.876	46.093	3.366	4425
4600	1.497	34.688	1.110	27.787	37.039	45.877	46.446	3.412	4522
4700	1.503	34.689	1.104	27.788	37.041	45.879	46.729	3.459	4619
4800	1.512	34.689	1.101	27.789	37.041	45.879	47.135	3.506	4716
4900	1.521	34.690	1.098	27.790	37.042	45.880	47.472	3.553	4814
5000	1.531	34.690	1.096	27.790	37.042	45.881	47.898	3.601	4911
5100	1.541	34.690	1.093	27.790	37.043	45.881	48.326	3.649	5008
5200	1.552	34.691	1.091	27.791	37.044	45.882	48.704	3.697	5105
5300	1.563	34.691	1.089	27.791	37.044	45.883	49.154	3.746	5202
5400	1.575	34.691	1.088	27.791	37.044	45.883	49.625	3.796	5299
5500	1.587	34.691	1.087	27.791	37.044	45.883	50.097	3.846	5396
5580	1.598	34.692	1.087	27.792	37.045	45.884	50.435	3.886	5473

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	18.486	34.725	5.47	102.8	3.5	0.10	0.0	0.00	18.486	24.942	33.442	41.576		1
53	17.000	34.702	5.68	103.7	3.7	0.10	0.0	0.00	16.991	25.289	33.839	42.019		53
103	15.032	34.471	5.64	98.9	4.5	0.22	0.9	0.45	15.016	25.561	34.183	42.431		103
152	13.395	34.339	5.42	91.8	6.9	0.46	5.5	0.02	13.374	25.906	34.490	42.796		152
197	12.049	34.268	5.39	88.7	10.7	0.66	8.9	0.01	12.023	26.017	34.754	43.110		198
289	10.444	34.181	5.36	85.2	15.8	0.91	12.8	0.01	10.409	26.242	35.047	43.466		290
392	8.921	34.097	4.82	74.0	26.2	1.29	18.6	0.01	8.878	26.430	35.302	43.794		394
491	7.437	34.023	4.07	60.4	40.1	1.69	24.7	0.01	7.389	26.595	35.535	44.081		494
587	5.799	33.988	2.85	40.7	63.7	2.21	32.6	0.01	5.748	26.784	35.803	44.422		591
683	4.796	34.023	1.91	26.6	84.6	2.63	37.9	0.00	4.742	26.930	35.998	44.664		687
781	4.074	34.130D	0.88	12.1	106.4	2.94	42.7	0.00	4.016	27.093	36.196	44.895		786
881	3.838	34.237D	0.42	5.7	119.9	3.08	44.4	0.00	3.773	27.202	36.317	45.026		887
970	3.622	34.309D	0.27	3.7	128.6	3.15	45.0	0.00	3.551	27.281	36.406	45.125		977
1207	3.130	34.470D	0.45	6.0	144.6	3.14	45.0	0.00	3.044	27.458	36.607	45.348		1217
1453	2.699	34.530	0.83	11.0	154.7	3.08	44.3	0.00	2.597	27.546	36.718	45.481		1466
1703	2.301	34.576	1.25	16.4	164.8	2.99	43.1	0.00	2.183	27.617	36.811	45.594		1720
1952	2.038	34.604	1.55	20.2	172.8	2.92	42.3	0.00	1.903	27.662	36.871	45.668		1973
2453	1.715	34.642	2.15	27.8	178.1	2.80	40.8	0.00	1.541	27.720	36.948	45.763		2482
2948	1.548	34.663	2.71	34.8	173.5	2.68	39.3	0.00	1.331	27.752	36.991	45.818		2987
3458	1.477	34.677	3.12	40.0	167.3	2.58	38.0	0.00	1.210	27.771	37.018	45.850		3508
3962	1.470	34.684	3.36	43.0	163.8	2.53	37.4	0.00	1.149	27.781	37.031	45.866		4024
4465	1.494	34.687			158.4		36.9	0.01	1.114	27.786	37.037	45.875		4541
4966	1.537	34.689	3.61	46.1	154.4	2.44	36.6	0.00	1.094	27.789	37.042	45.880		5056
5474	1.598	34.690	3.65	46.6	152.3	2.44	36.5	0.01	1.087	27.790	37.043	45.882		5580

MARATHON 2 STA. 36



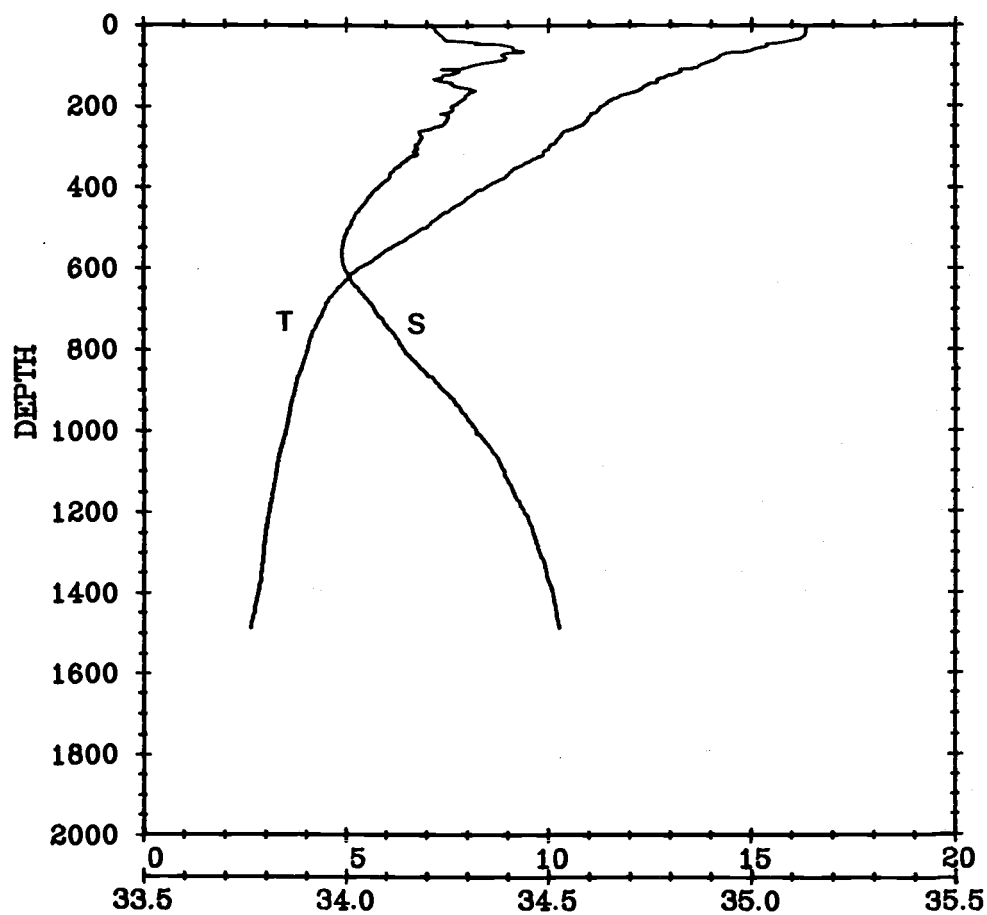
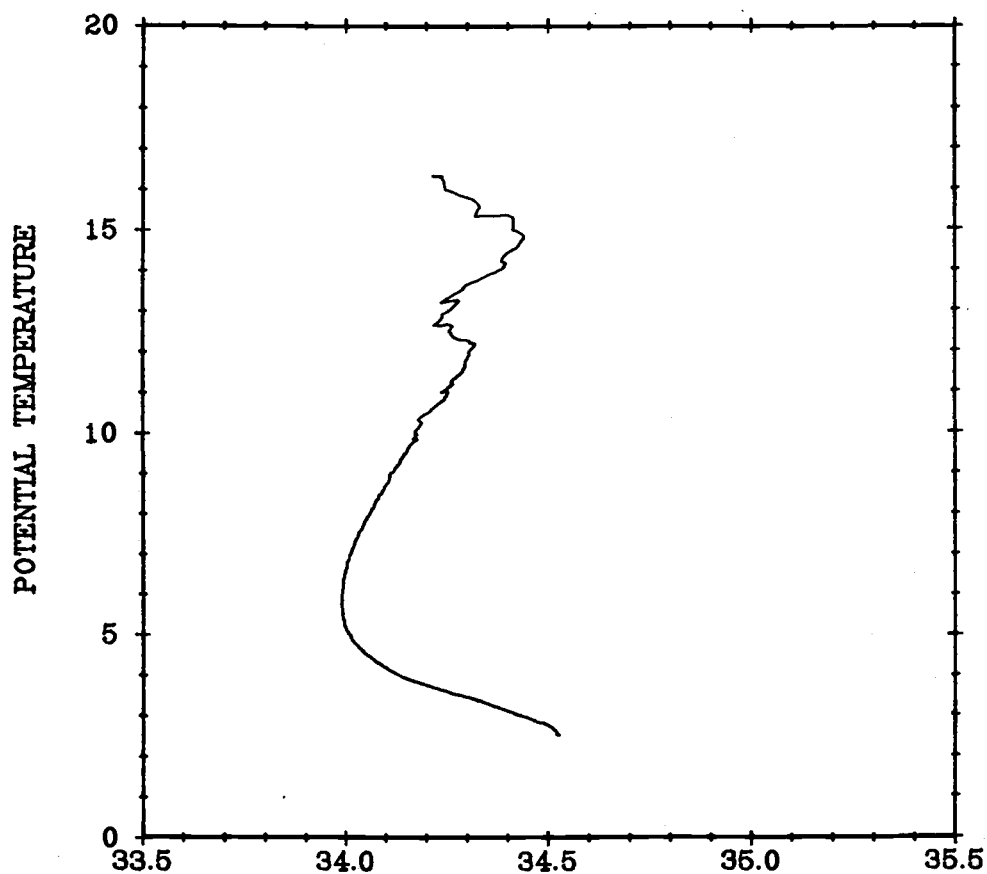
R/V THOMAS WASHINGTON MARATHON LEG II STATION 37

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
33 56.5N	151 59.8W	5/16/84	736	5015	360	8	14.4	12.8	1023.7

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	16.333	34.222	16.333	25.074	33.653	41.860	287.748	0.000	0
20	16.310	34.229	16.307	25.085	33.665	41.873	287.311	0.058	19
40	15.820	34.292	15.814	25.246	33.842	42.065	272.627	0.113	39
60	14.985	34.410	14.976	25.523	34.147	42.397	246.855	0.165	59
80	14.182	34.388	14.170	25.679	34.333	42.610	232.546	0.213	79
100	13.690	34.314	13.676	25.725	34.398	42.694	228.696	0.260	99
150	12.406	34.272	12.386	25.950	34.674	43.016	208.391	0.369	149
200	11.318	34.266	11.293	26.151	34.919	43.302	190.236	0.468	198
250	10.717	34.225	10.687	26.228	35.021	43.428	183.864	0.562	248
300	10.034	34.174	9.999	26.307	35.130	43.565	177.111	0.652	298
350	9.265	34.129	9.226	26.400	35.256	43.723	168.878	0.739	347
400	8.458	34.081	8.416	26.490	35.383	43.884	160.735	0.821	397
450	7.669	34.037	7.624	26.573	35.502	44.037	153.061	0.900	447
500	6.945	34.006	6.898	26.650	35.613	44.181	145.807	0.974	496
600	5.370	33.994	5.321	26.841	35.880	44.519	127.183	1.111	595
700	4.452	34.067	4.399	27.002	36.087	44.768	111.653	1.230	694
800	4.031	34.141	3.972	27.106	36.212	44.912	102.130	1.337	793
900	3.718	34.235	3.653	27.213	36.334	45.048	92.359	1.434	892
1000	3.490	34.316	3.419	27.300	36.432	45.157	84.495	1.523	991
1100	3.255	34.384	3.177	27.377	36.521	45.256	77.479	1.604	1090
1200	3.083	34.434	2.999	27.433	36.586	45.330	72.475	1.679	1189
1300	2.937	34.473	2.846	27.478	36.638	45.389	68.544	1.749	1288
1400	2.825	34.506	2.727	27.515	36.681	45.438	65.414	1.816	1387
1500	2.624	34.526	2.521	27.549	36.726	45.492	62.165	1.880	1485
1502	2.612	34.527	2.509	27.551	36.728	45.495	61.963	1.881	1487

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUS/LN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
2	16.441	5.79	104.3	5.7	0.22	0.0	0.00	4.14	16.441	25.066	33.641	41.844	2
53	14.848	5.96	104.1	5.4	0.20	0.4	0.07		14.840	25.542	34.172	42.426	53
103	13.588	5.69	96.8	5.9	0.38	3.6	0.20		13.573	25.752	34.429	42.728	103
136	12.581	5.74	95.5	7.1	0.47	5.4	0.01	3.77	12.563	25.857	34.575	42.912	136
169	12.030	5.40	88.9	10.8	0.71	9.5	0.01		12.008	26.047	34.785	43.141	169
202	11.409	5.45	88.5	12.5	0.78	10.7	0.01		11.383	26.142	34.905	43.285	202
251	10.825	5.38	86.2	14.9	0.88	12.2	0.01		10.794	26.216	35.004	43.407	252
300	10.039			18.6	1.04	14.7	0.01		10.004	26.303	35.125	43.560	301
399	8.558	4.66	71.0	29.0	1.40	20.0	0.01	3.89	8.516	26.480	35.368	43.865	401
497	7.046	3.80	55.9	45.1	1.86	26.4	0.00	3.24	6.999	26.642	35.600	44.163	500
594	5.495	2.58	36.6	68.7	2.41	34.3	0.00	2.31	5.445	26.825	35.858	44.491	598
693	4.481	1.43	19.8	92.4	2.84	40.3	0.00	0.64	4.428	26.995	36.079	44.759	699
792	4.053	0.88	12.0	106.9	3.01	42.9	0.00	0.21	3.994	27.099	36.204	44.904	797
889	3.738	0.48	6.5	121.8	3.12	44.3	0.00	0.07	3.673	27.204	36.324	45.038	895
986	3.513	0.29	3.9	131.8	3.18	45.1	0.00		3.442	27.290	36.420	45.145	994
1233	3.009	0.32	4.3	148.3		45.4	0.01		2.922	27.457	36.613	45.361	1243
1484	2.625	0.72	9.5	159.2	3.10	44.7	0.00		2.522	27.549	36.725	45.492	1498

MARATHON 2 STA. 37

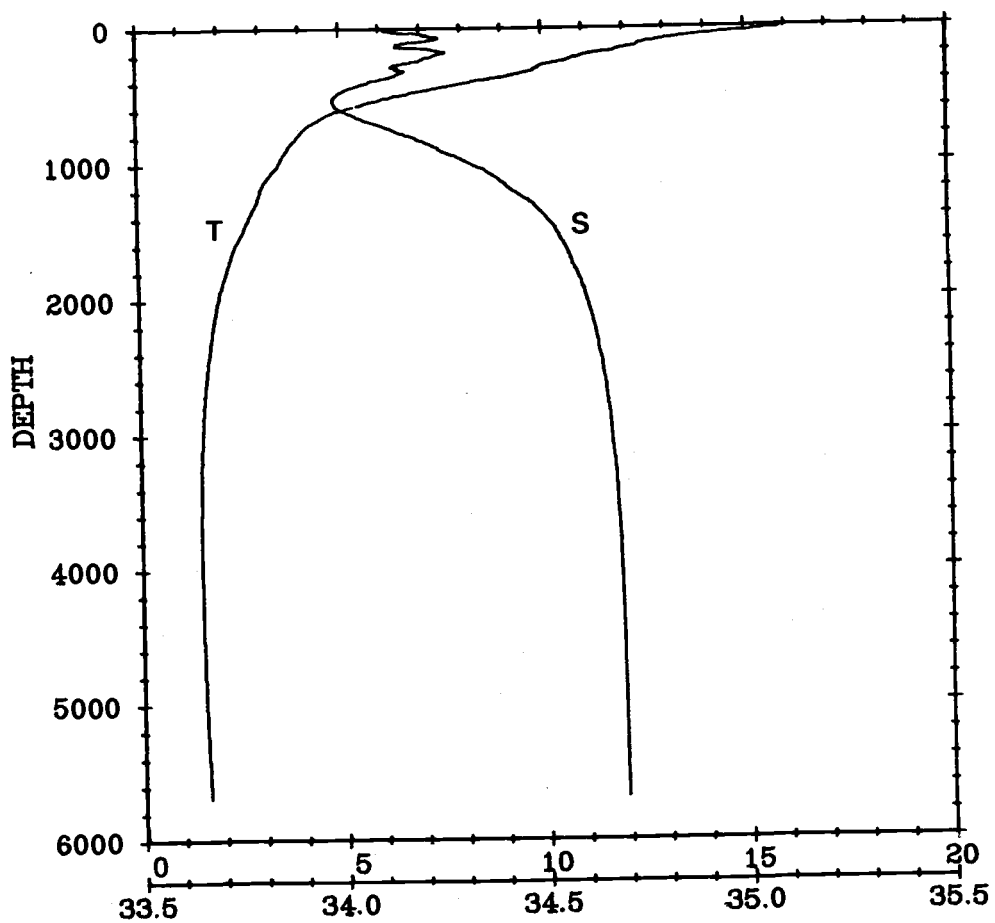
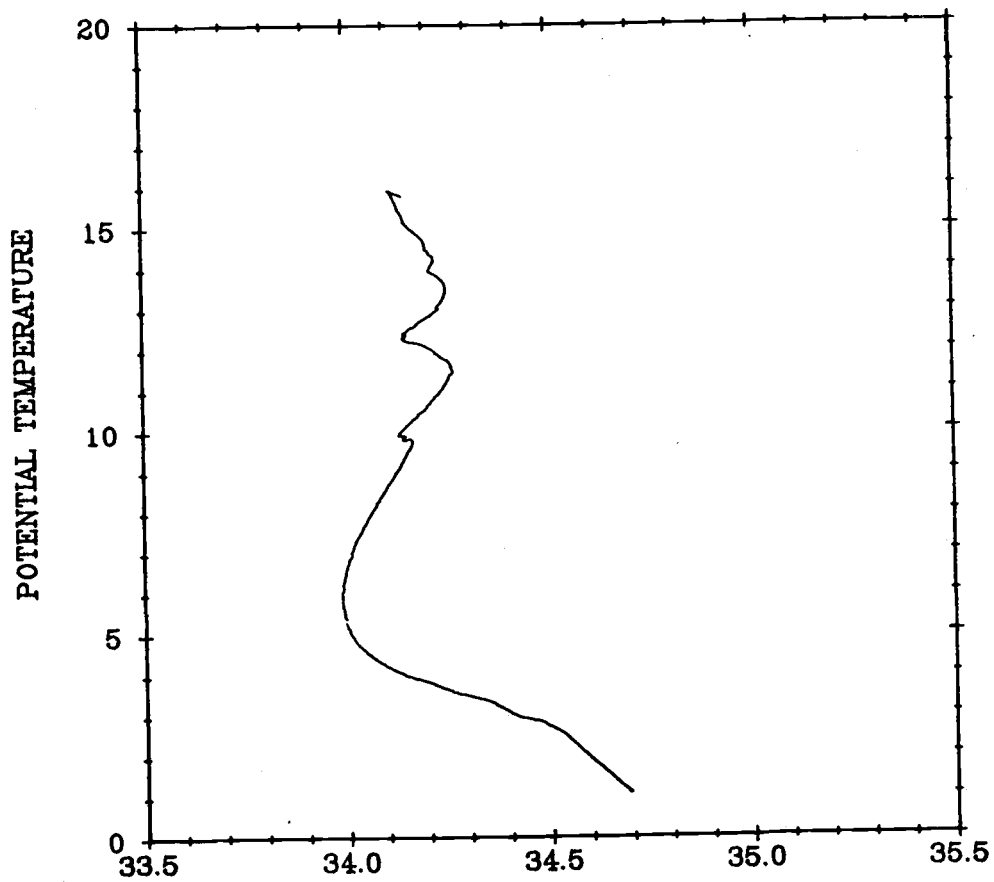


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
34 18.4N	152 0.1W	5/16/84	1418	5687	310	5	13.9	12.2	1021.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	15.909	34.116	15.909	25.089	33.684	41.906	286.286	0.000	0
20	15.852	34.116	15.849	25.103	33.700	41.924	285.626	0.057	19
40	14.977	34.169	14.971	25.339	33.966	42.219	263.794	0.112	39
60	14.030	34.222	14.021	25.582	34.244	42.528	241.146	0.163	59
80	13.334	34.242	13.323	25.741	34.429	42.738	226.501	0.209	79
100	12.856	34.207	12.842	25.810	34.517	42.844	220.412	0.254	99
150	12.113	34.188	12.094	25.941	34.678	43.032	209.154	0.361	149
200	11.126	34.242	11.101	26.167	34.943	43.334	188.625	0.461	198
250	10.507	34.188	10.477	26.236	35.038	43.454	183.001	0.554	248
300	9.896	34.141	9.862	26.305	35.134	43.575	177.262	0.644	298
350	9.302	34.140	9.263	26.403	35.257	43.723	168.658	0.730	347
400	8.281	34.075	8.240	26.512	35.413	43.921	158.497	0.812	397
450	7.355	34.022	7.312	26.605	35.549	44.098	149.656	0.889	447
500	6.518	33.993	6.473	26.696	35.680	44.267	140.928	0.952	496
600	5.160	34.001	5.111	26.871	35.921	44.569	124.066	1.094	595
700	4.361	34.080	4.308	27.022	36.112	44.797	109.623	1.211	694
800	3.965	34.170	3.906	27.135	36.244	44.948	99.218	1.316	793
900	3.705	34.246	3.640	27.223	36.344	45.059	91.394	1.411	892
1000	3.496	34.318	3.425	27.301	36.433	45.157	84.415	1.499	991
1100	3.236	34.380	3.159	27.376	36.520	45.257	77.558	1.580	1090
1200	3.033	34.422	2.949	27.428	36.583	45.330	72.790	1.655	1189
1300	2.930	34.473	2.839	27.479	36.639	45.391	68.464	1.726	1289
1400	2.758	34.506	2.661	27.521	36.690	45.450	64.636	1.792	1386
1500	2.601	34.532	2.498	27.556	36.734	45.501	61.456	1.855	1485
1600	2.431	34.550	2.322	27.585	36.772	45.549	58.670	1.915	1584
1700	2.289	34.566	2.173	27.610	36.805	45.589	56.315	1.973	1682
1800	2.183	34.578	2.061	27.629	36.829	45.619	54.638	2.028	1781
1900	2.069	34.592	1.940	27.650	36.857	45.652	52.684	2.082	1879
2000	1.975	34.603	1.839	27.666	36.879	45.679	51.154	2.134	1978
2100	1.906	34.612	1.763	27.679	36.896	45.700	50.044	2.184	2075
2200	1.841	34.621	1.690	27.692	36.912	45.721	48.958	2.234	2174
2300	1.789	34.628	1.630	27.702	36.926	45.737	48.157	2.282	2273
2400	1.746	34.634	1.579	27.711	36.937	45.751	47.523	2.330	2371
2500	1.691	34.640	1.516	27.720	36.950	45.767	46.715	2.377	2469
2600	1.556	34.645	1.473	27.727	36.959	45.779	46.220	2.424	2567
2700	1.619	34.650	1.428	27.734	36.969	45.791	45.685	2.470	2666
2800	1.591	34.654	1.391	27.740	36.977	45.800	45.327	2.515	2764
2900	1.566	34.658	1.357	27.746	36.984	45.809	44.998	2.561	2862
3000	1.545	34.661	1.327	27.750	36.991	45.817	44.785	2.605	2960
3100	1.529	34.663	1.302	27.754	36.995	45.823	44.705	2.650	3058
3200	1.509	34.667	1.273	27.759	37.002	45.832	44.416	2.695	3155
3300	1.496	34.670	1.250	27.763	37.007	45.838	44.291	2.739	3253
3400	1.483	34.672	1.227	27.766	37.012	45.844	44.231	2.783	3351
3500	1.481	34.674	1.215	27.769	37.015	45.847	44.328	2.828	3449
3600	1.479	34.675	1.203	27.770	37.017	45.850	44.493	2.872	3547
3700	1.470	34.677	1.184	27.773	37.021	45.855	44.479	2.917	3644
3800	1.468	34.679	1.171	27.775	37.024	45.859	44.567	2.961	3742
3900	1.469	34.680	1.162	27.777	37.026	45.861	44.770	3.006	3840
4000	1.470	34.681	1.152	27.779	37.028	45.864	44.972	3.051	3937
4100	1.474	34.682	1.145	27.780	37.030	45.866	45.221	3.096	4035
4200	1.479	34.683	1.139	27.781	37.032	45.868	45.487	3.141	4132
4300	1.483	34.684	1.131	27.783	37.033	45.870	45.736	3.187	4230
4400	1.487	34.685	1.124	27.784	37.035	45.872	45.984	3.232	4327
4500	1.493	34.685	1.118	27.784	37.036	45.873	46.337	3.279	4424
4600	1.499	34.686	1.112	27.786	37.037	45.875	46.619	3.325	4522
4700	1.506	34.686	1.107	27.786	37.038	45.876	46.990	3.372	4619
4800	1.514	34.687	1.103	27.787	37.039	45.877	47.308	3.419	4716
4900	1.522	34.688	1.100	27.788	37.040	45.878	47.646	3.467	4813
5000	1.532	34.688	1.097	27.788	37.041	45.879	48.055	3.514	4910
5100	1.542	34.688	1.094	27.788	37.041	45.880	48.483	3.563	5007
5200	1.552	34.689	1.091	27.789	37.042	45.881	48.843	3.611	5104
5300	1.563	34.689	1.089	27.790	37.043	45.881	49.293	3.660	5201
5400	1.574	34.689	1.087	27.790	37.043	45.882	49.744	3.710	5298
5500	1.587	34.689	1.087	27.790	37.043	45.882	50.235	3.760	5395
5600	1.599	34.690	1.086	27.791	37.044	45.883	50.641	3.810	5492
5700	1.612	34.690	1.085	27.791	37.044	45.883	51.137	3.861	5589
5792	1.624	34.690	1.085	27.791	37.044	45.883	51.597	3.908	5678

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUS/LN	DEG C				DB
1	15.956	34.110	5.68	101.2	5.4	0.16	0.0	0.00	15.956	25.074	33.657	41.888		1
53	13.842	34.227	6.02	102.9	5.4	0.26	1.2	0.29	13.834	25.625	34.293	42.584		53
103	12.598	34.170	5.82	95.9	7.2	0.44	4.7	0.04	12.584	25.832	34.550	42.886		103
154	11.862	34.233	5.56	91.1	10.7	0.65	8.5	0.01	11.842	26.024	34.769	43.133		154
204	10.790	34.216	5.58	89.4	14.6	0.82	11.3	0.00	10.765	26.207	34.997	43.401		205
304	9.832	34.164	5.26	82.5	20.2	1.05	14.8	0.00	9.797	26.334	35.165	43.608		305
404	8.118	34.077	4.45	67.1	33.8	1.53	21.7	0.00	8.076	26.538	35.446	43.961		406
504	6.490	33.994	3.37	48.9	53.6	2.06	29.4	0.00	6.444	26.701	35.685	44.273		507
604	5.251	33.999	2.35	33.1	74.0	2.51	35.7	0.00	5.201	26.858	35.904	44.548		608
703	4.458	34.068	1.32	18.2	93.8		40.9	0.00	4.404	27.002	36.087	44.768		708
804	3.957	34.173	0.67	9.2	111.8	3.06	43.7	0.00	3.897	27.139	36.248	44.951		810
904	3.668	34.254	0.37	5.0	123.7	3.11	44.6	0.00	3.602	27.233	36.356	45.073		911
1004	3.462	34.334	0.23	3.1	133.3	3.21	45.3	0.00	3.390	27.317	36.450	45.176		1012
1254	2.977	34.453	0.36	4.8	149.5	3.20	45.5	0.00	2.889	27.458	36.616	45.365		1265
1504	2.598	34.534	0.84	11.1	159.0	3.13	44.4	0.00	2.493	27.558	36.735	45.504		1518
1754	2.192	34.579	1.21	15.8	169.3	3.03	43.5	0.00	2.072	27.629	36.828	45.617		1772
2003	1.951	34.608	1.57	20.4	175.2	2.95	42.5	0.00	1.813	27.672	36.886	45.688		2025
2502	1.681	34.645	2.24	28.9	177.1	2.83	40.6	0.00	1.503	27.725	36.955	45.773		2532
3001	1.537	34.665	2.78	35.7	172.5	2.71	39.4	0.00	1.315	27.754	36.995	45.822		3041
3498	1.480	34.677	3.14	40.2	166.1	2.62	38.2	0.00	1.209	27.771	37.018	45.850		3549
3999	1.472	34.683	3.36	43.0	159.7	2.56	37.5	0.00	1.147	27.781	37.031	45.866		4063
4497	1.497	34.686					37.1	0.00	1.113	27.785	37.037	45.875		4574
5092	1.551	34.689	3.60	46.0	154.4	2.47	36.7	0.00	1.092	27.789	37.042	45.881		5186
5677	1.624	34.690	3.67	46.9	151.4	2.53	36.6	0.00	1.085	27.791	37.044	45.883		5790

MARATHON 2 STA. 38

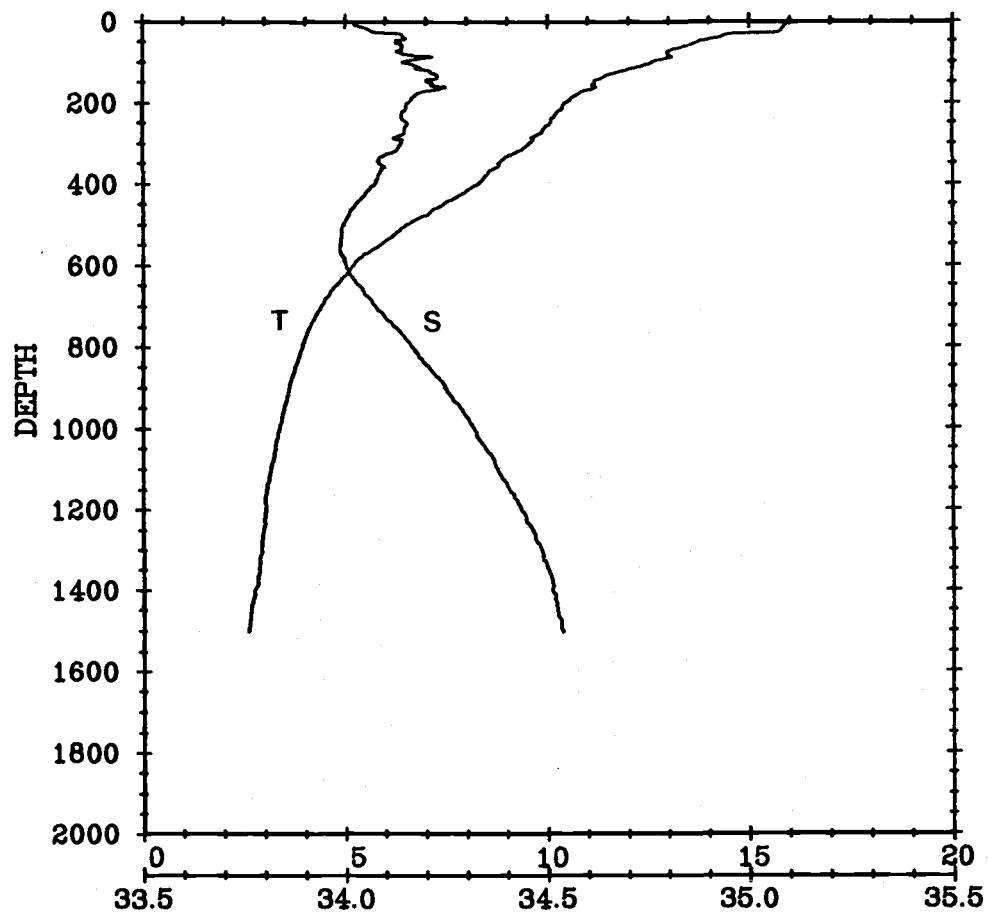
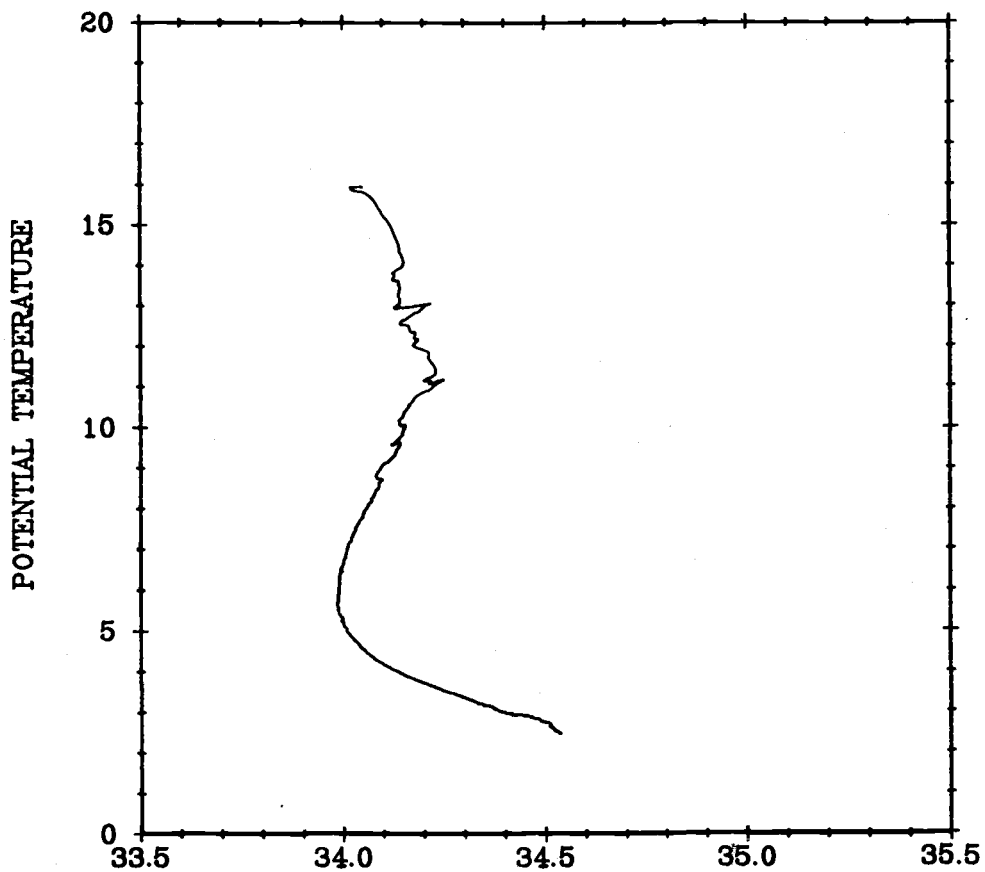


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
34 39.3N	151 59.8W	5/16/94	2048	5663	210	4	15.6	12.8	1021.3

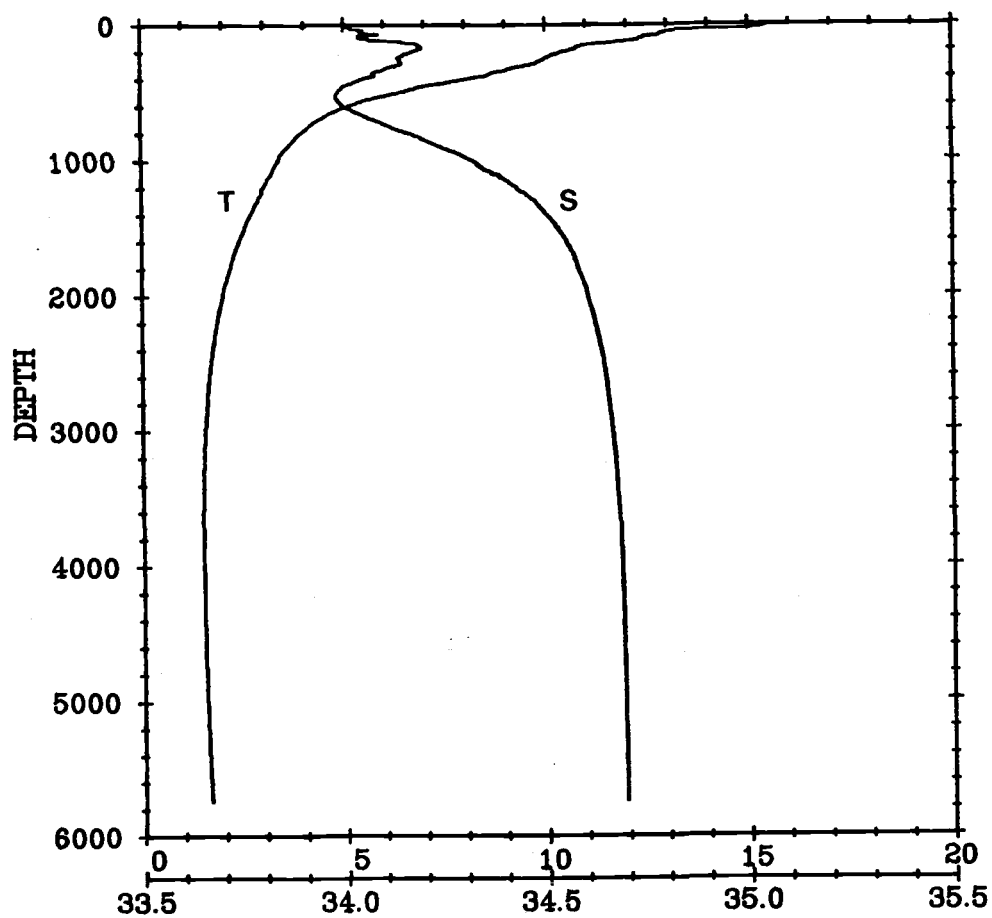
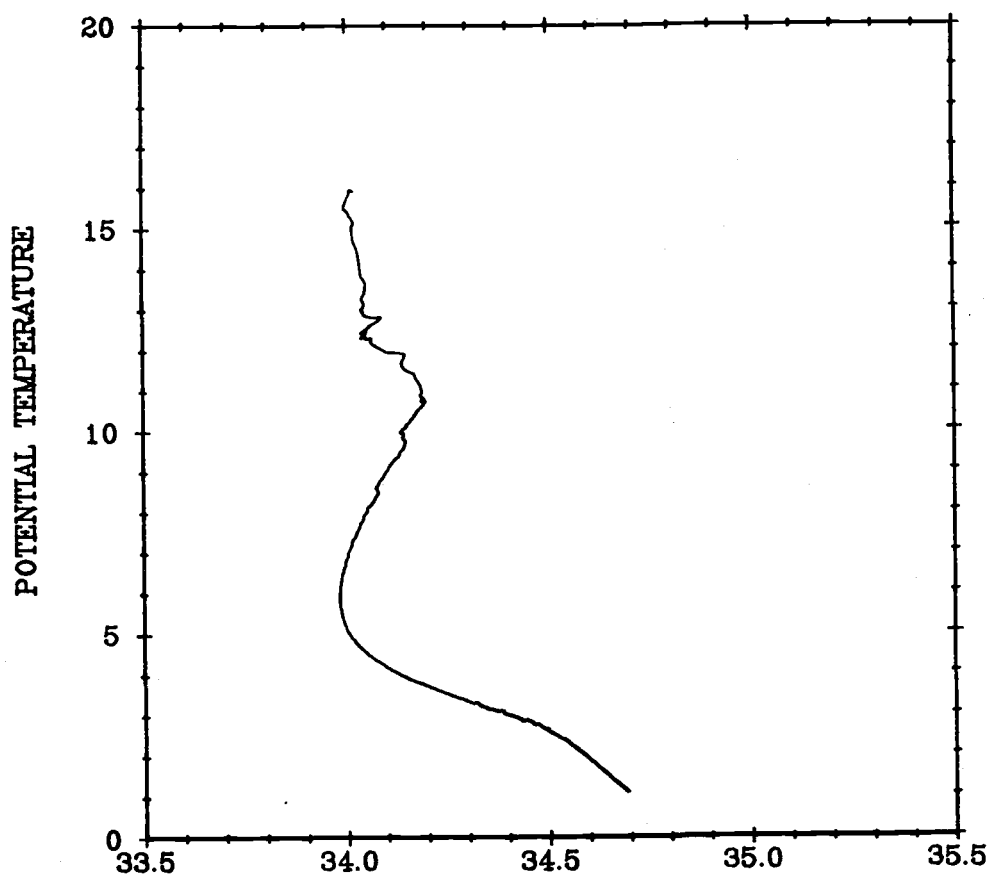
CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	15.920	34.030	15.920	25.021	33.616	41.839	292.819	0.000	0
20	15.669	34.063	15.666	25.103	33.707	41.938	285.583	0.058	19
40	14.261	34.138	14.255	25.468	34.122	42.400	251.417	0.112	39
60	13.448	34.138	13.440	25.637	34.322	42.628	235.848	0.160	59
80	13.005	34.159	12.994	25.743	34.445	42.766	226.280	0.206	79
100	12.622	34.166	12.609	25.825	34.541	42.877	219.017	0.251	99
150	11.181	34.214	11.163	26.135	34.908	43.297	190.549	0.353	149
200	10.471	34.158	10.447	26.218	35.022	43.439	183.562	0.447	198
250	10.063	34.150	10.034	26.283	35.104	43.538	178.358	0.537	248
300	9.571	34.137	9.537	26.356	35.198	43.652	172.253	0.625	298
350	8.817	34.086	8.780	26.438	35.314	43.800	165.009	0.709	347
400	8.287	34.072	8.246	26.509	35.409	43.917	158.809	0.790	397
450	7.465	34.027	7.421	26.594	35.533	44.077	150.856	0.868	447
500	6.575	33.996	6.530	26.691	35.672	44.256	141.475	0.941	496
600	5.223	34.000	5.174	26.862	35.910	44.555	124.914	1.074	595
700	4.423	34.071	4.370	27.008	36.095	44.778	111.016	1.192	694
800	3.927	34.162	3.869	27.133	36.244	44.949	99.377	1.297	793
900	3.604	34.243	3.540	27.230	36.357	45.077	90.469	1.392	892
1000	3.370	34.312	3.300	27.308	36.446	45.177	83.428	1.479	991
1100	3.156	34.371	3.079	27.376	36.525	45.266	77.316	1.559	1090
1200	3.011	34.430	2.928	27.437	36.593	45.340	71.948	1.634	1189
1300	2.918	34.479	2.828	27.485	36.645	45.397	67.882	1.704	1288
1400	2.783	34.510	2.686	27.522	36.690	45.449	64.631	1.770	1386
1500	2.596	34.532	2.493	27.556	36.734	45.502	61.397	1.833	1485
1516	2.568	34.536	2.464	27.562	36.741	45.511	60.863	1.843	1501

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
0	16.170	34.038	5.86	104.9	4.7	0.32	0.0	0.00	16.170	24.970	33.556	41.771	0
36	14.914	34.097	6.05	105.6	5.2	0.20	0.0	0.00	14.909	25.296	33.927	42.183	36
81	13.192	34.135	5.84	98.4	5.2	0.37	2.0	0.91	13.181	25.687	34.382	42.697	81
121	12.482	34.147	5.76	95.6	6.6	0.48	5.0	0.02	12.466	25.838	34.560	42.901	121
160	11.157	34.202	5.53	89.3	11.7	0.79	10.4	0.01	11.137	26.120	34.904	43.295	160
201	10.522	34.172	5.58	89.0	13.3	0.84	11.3	0.01	10.598	26.203	35.000	43.411	202
251	10.094	34.150	5.41	85.3	16.6	0.98	13.3	0.01	10.055	26.278	35.097	43.530	252
301	9.634	34.139	5.17	80.7	20.9	1.13	15.7	0.01	9.600	26.347	35.187	43.638	302
401	8.311	34.077	4.61	69.8	31.5	1.46	20.8	0.00	8.269	26.509	35.408	43.915	403
502	6.591	33.996	1.60	52.3	50.6	2.02	28.3	0.00	6.545	26.689	35.669	44.253	505
601	5.227	34.001	2.49	35.1	74.7	2.49	35.0	0.00	5.178	26.863	35.909	44.555	605
702	4.422	34.072D	1.46	20.2	94.7	2.83	40.3	0.00	4.368	27.009	36.096	44.778	707
801	3.922	34.163	0.77	10.5	111.7	3.05	43.3	0.00	3.863	27.134	36.245	44.951	807
902	3.590	34.248	0.42	5.7	125.8	3.15	44.6	0.00	3.525	27.235	36.363	45.083	909
1002	3.339	34.318	0.25	3.4	136.1	3.21	45.4	0.00	3.268	27.316	36.455	45.188	1010
1252	2.953	34.466	0.37	4.9	148.6	3.23	45.5	0.00	2.865	27.471	36.630	45.380	1253
1501	2.570	34.533	0.74	9.8	159.0		44.7	0.00	2.466	27.559	36.739	45.508	1515

MARATHON 2 STA. 39



MARATHON 2 STA. 40

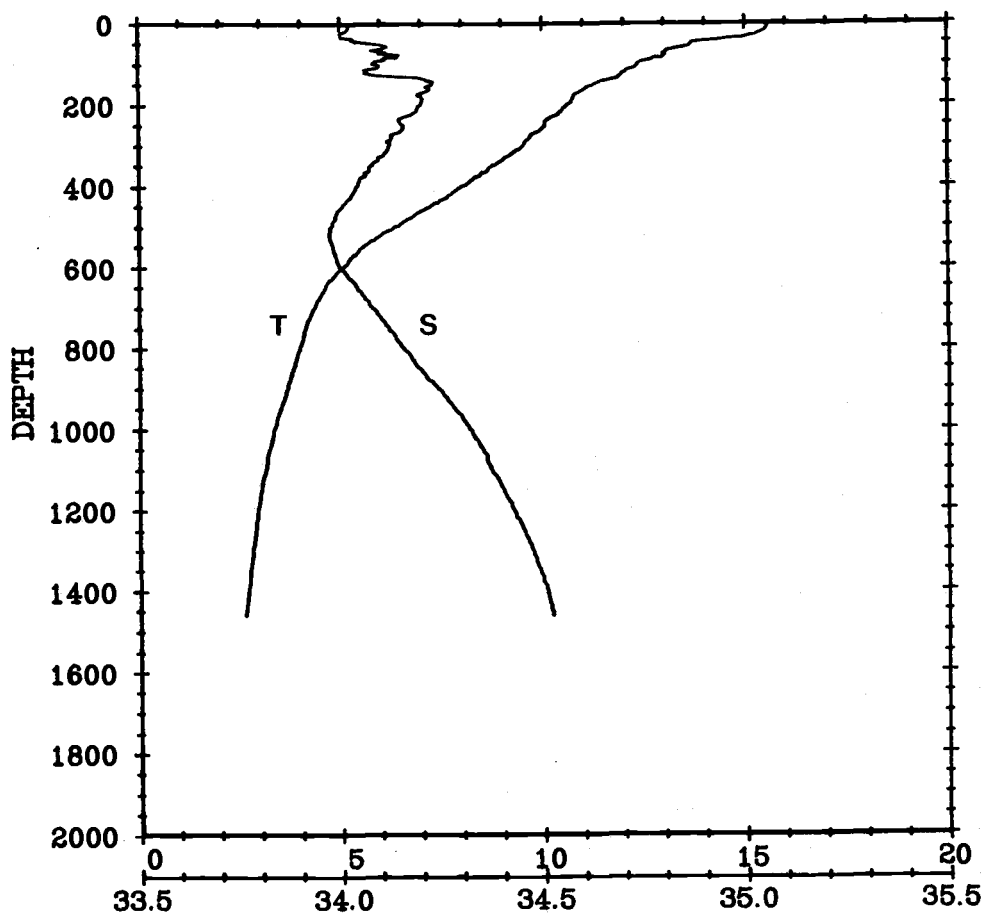
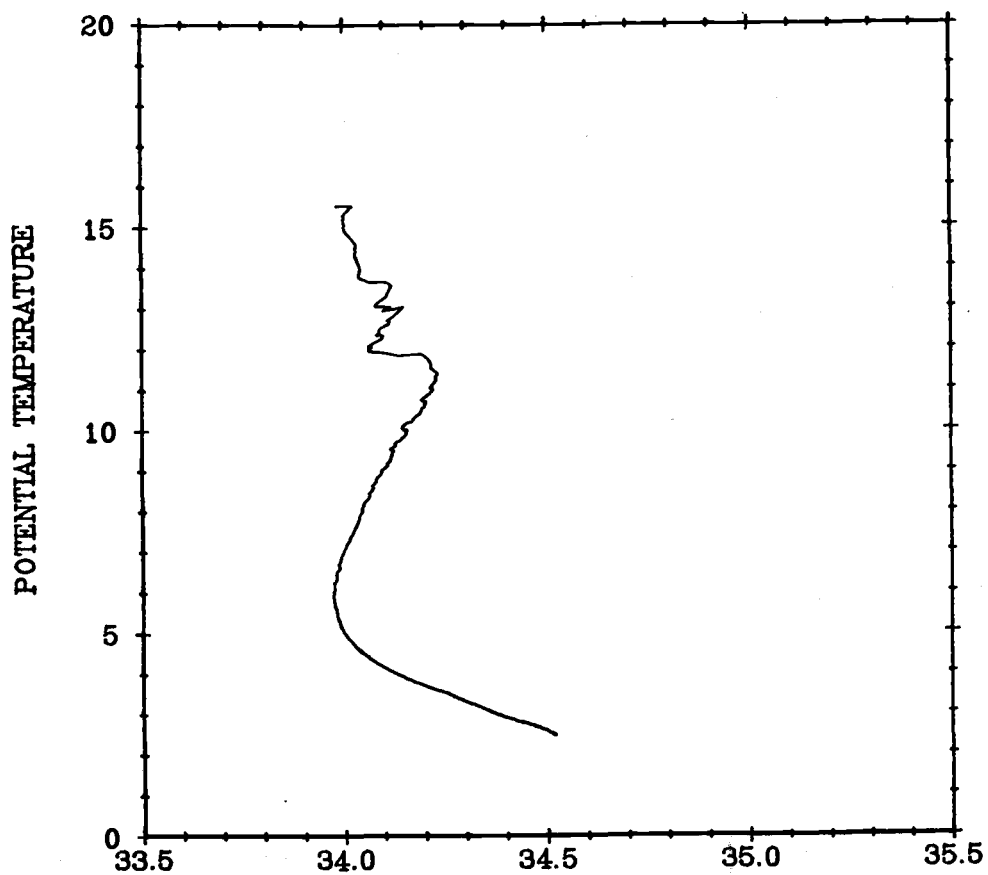


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
35 20.7N	151 59.5W	5/17/84	942	5798	220	12	16.1	15.6	1017.6

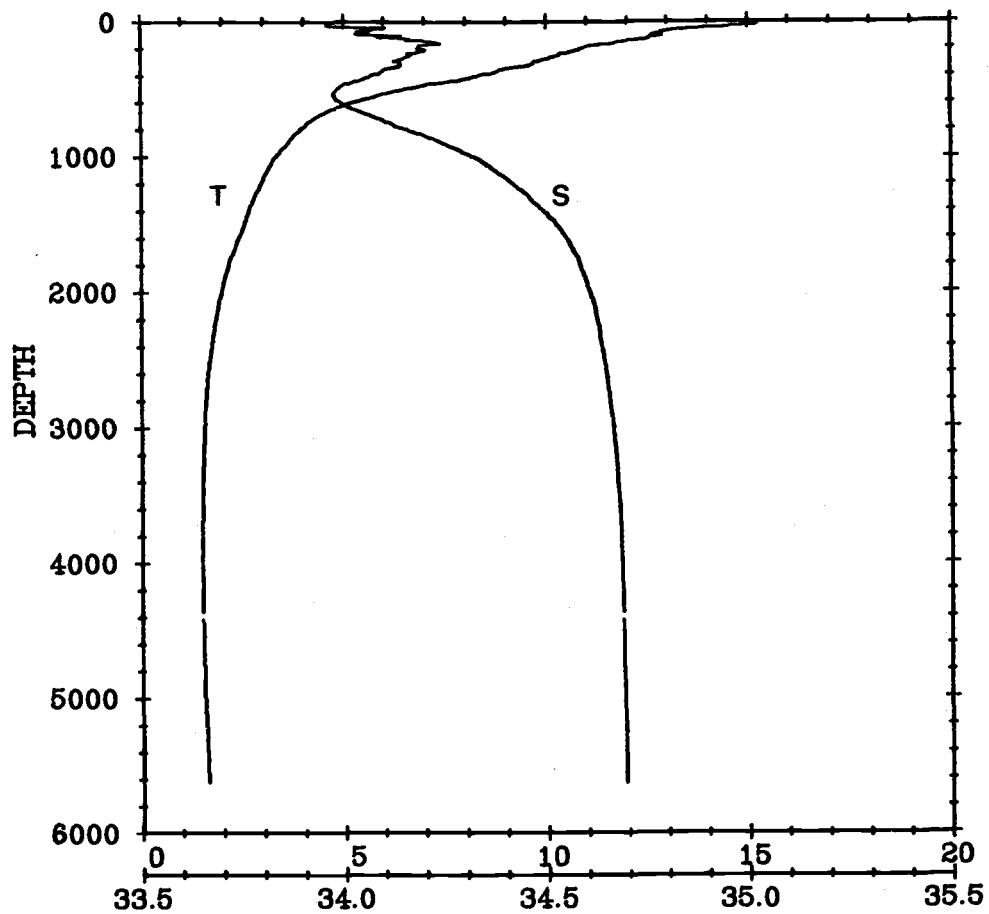
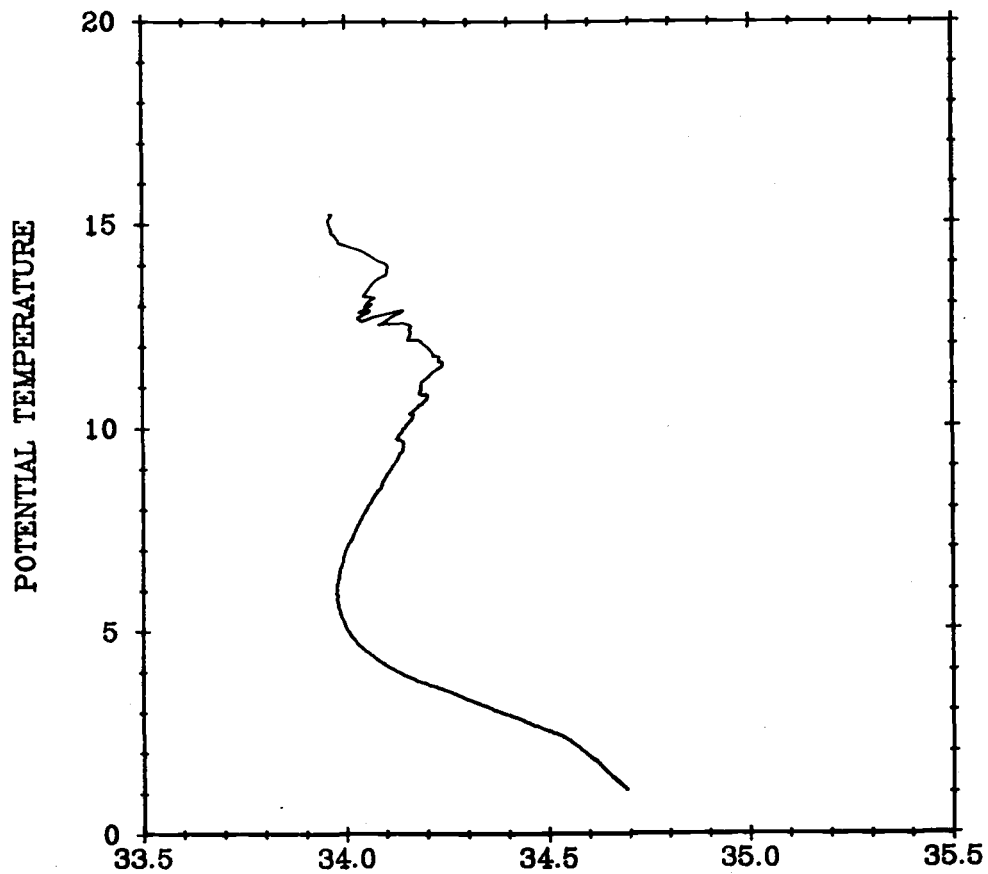
CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	15.545	34.015	15.545	25.093	33.702	41.938	285.900	0.000	0
20	15.402	34.013	15.399	25.124	33.739	41.979	283.575	0.057	19
40	14.451	34.029	14.445	25.344	33.992	42.265	263.255	0.112	39
60	13.407	34.097	13.399	25.614	34.301	42.609	238.065	0.162	59
80	12.949	34.122	12.938	25.726	34.430	42.754	227.935	0.208	79
100	12.419	34.094	12.406	25.808	34.534	42.878	220.511	0.253	99
150	11.327	34.222	11.308	26.114	34.882	43.265	192.521	0.356	149
200	10.630	34.200	10.606	26.223	35.020	43.430	183.158	0.450	198
250	10.050	34.153	10.021	26.287	35.109	43.544	177.922	0.541	248
300	9.532	34.121	9.498	26.350	35.194	43.650	172.805	0.628	298
350	8.813	34.081	8.776	26.434	35.311	43.797	165.316	0.713	347
400	8.056	34.042	8.015	26.519	35.431	43.949	157.574	0.794	397
450	7.257	34.007	7.214	26.607	35.556	44.109	149.378	0.870	447
500	6.420	33.978	6.375	26.697	35.686	44.277	140.726	0.943	496
600	5.091	33.997	5.043	26.875	35.929	44.581	123.519	1.075	595
700	4.337	34.077	4.284	27.022	36.113	44.800	109.566	1.192	694
800	3.957	34.151	3.898	27.121	36.231	44.935	100.537	1.297	793
900	3.645	34.235	3.580	27.220	36.344	45.063	91.528	1.393	892
1000	3.328	34.313	3.258	27.313	36.453	45.186	82.881	1.480	991
1100	3.112	34.367	3.036	27.377	36.528	45.271	77.116	1.560	1090
1200	2.928	34.421	2.845	27.437	36.597	45.349	71.673	1.634	1189
1300	2.796	34.467	2.707	27.486	36.653	45.412	67.371	1.704	1288
1400	2.668	34.502	2.572	27.526	36.699	45.464	63.893	1.769	1386
1474	2.571	34.521	2.470	27.549	36.729	45.498	61.778	1.816	1459

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU91N	DEG C				DB
0	15.543	34.025	5.91	104.4	5.8	0.20	0.0	0.00		15.543	25.101	33.710	41.946	0
52	13.381	34.034	6.24	103.5	5.5	0.23	0.0	0.02		13.374	25.570	34.258	42.568	52
102	12.416	34.084	5.95	98.6	6.5	0.47	3.3	0.52		12.402	25.801	34.526	42.871	102
135	11.924	34.202	5.52	90.6	10.6	0.69	8.6	0.01		11.907	25.987	34.731	43.092	135
168	11.041	34.220	5.51	89.7	13.6	0.85	11.2	0.01		11.020	26.165	34.944	43.339	168
201	10.632	34.199	5.53	88.3	14.4	0.88	11.7	0.01		10.608	26.222	35.018	43.429	202
252	10.065	34.152	5.50	85.7	17.0	0.97	13.0	0.01		10.036	26.284	35.105	43.539	253
302	9.603	34.129	5.32	83.0	20.3	1.10	14.8	0.00		9.569	26.344	35.186	43.639	303
401	7.866	34.040	4.42	66.2	35.2	1.60	22.4	0.00		7.825	26.546	35.466	43.992	403
502	6.154	33.975	3.37	48.5	56.2	2.15	30.0	0.00		6.110	26.729	35.730	44.333	505
602	4.901	34.012	2.10	29.3	81.8	2.66	37.3	0.00		4.853	26.909	35.971	44.632	606
702	4.265	34.089	1.26	17.3	100.7	2.97	41.5	0.00		4.212	27.039	36.133	44.823	707
802	3.925	34.158	0.78	10.6	112.0	3.09	43.6	0.00		3.865	27.130	36.241	44.946	808
893	3.662	34.228	0.49	6.6	124.1	3.17	44.7	0.00		3.597	27.212	36.336	45.054	900
988	3.359	34.305	0.27	3.6	135.7	3.23	45.5	0.00		3.289	27.303	36.442	45.174	996
1225	2.891	34.437	0.26	3.5	154.9	3.26	46.0	0.00		2.806	27.453	36.615	45.369	1236
1458	2.573	34.521	0.67	8.9	163.3		45.2	0.00		2.472	27.549	36.728	45.498	1472

MARATHON 2 STA. 41



MARATHON 2 STA. 42

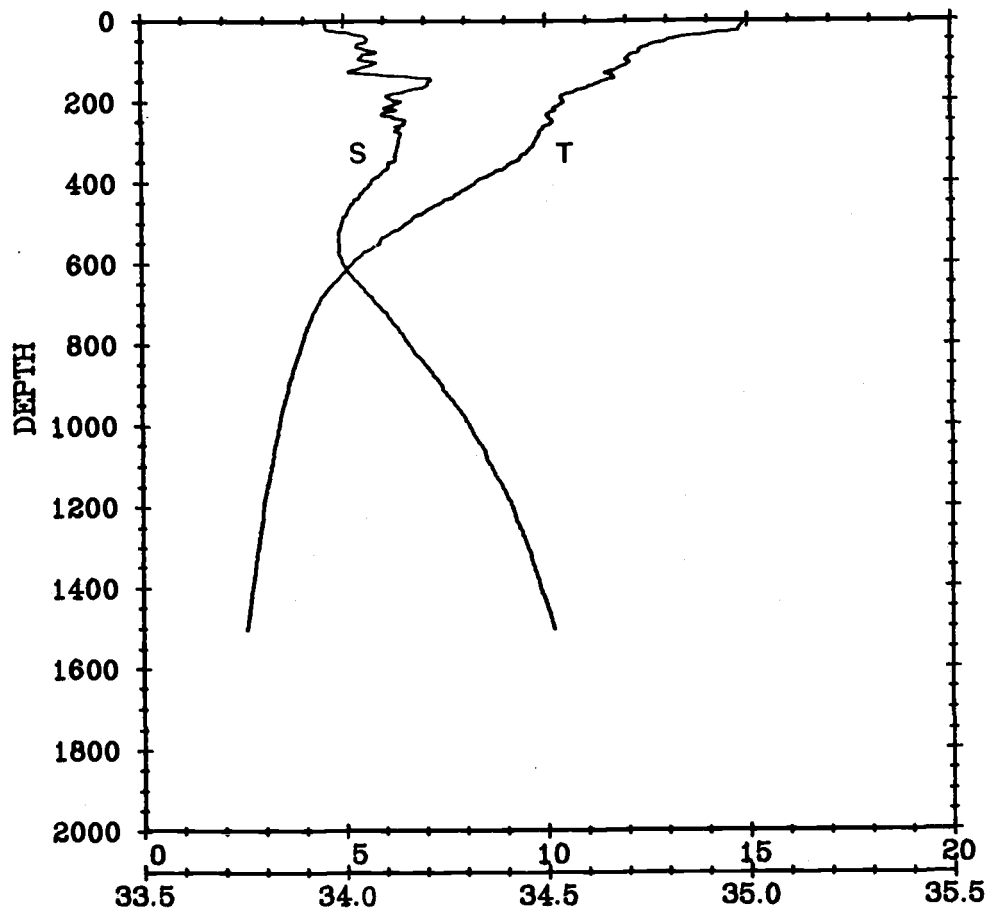
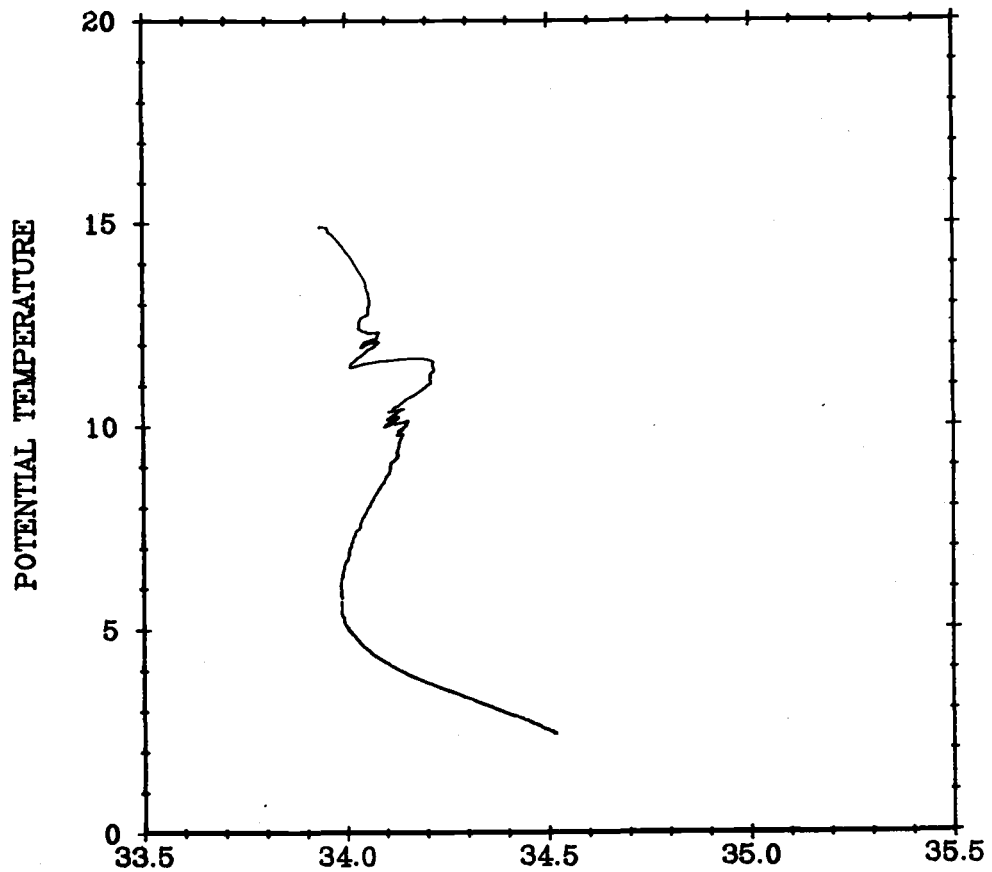


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
36 3.2N	151 59.8W	5/17/84	2254	5529	210	15	19.4	17.2	1016.3

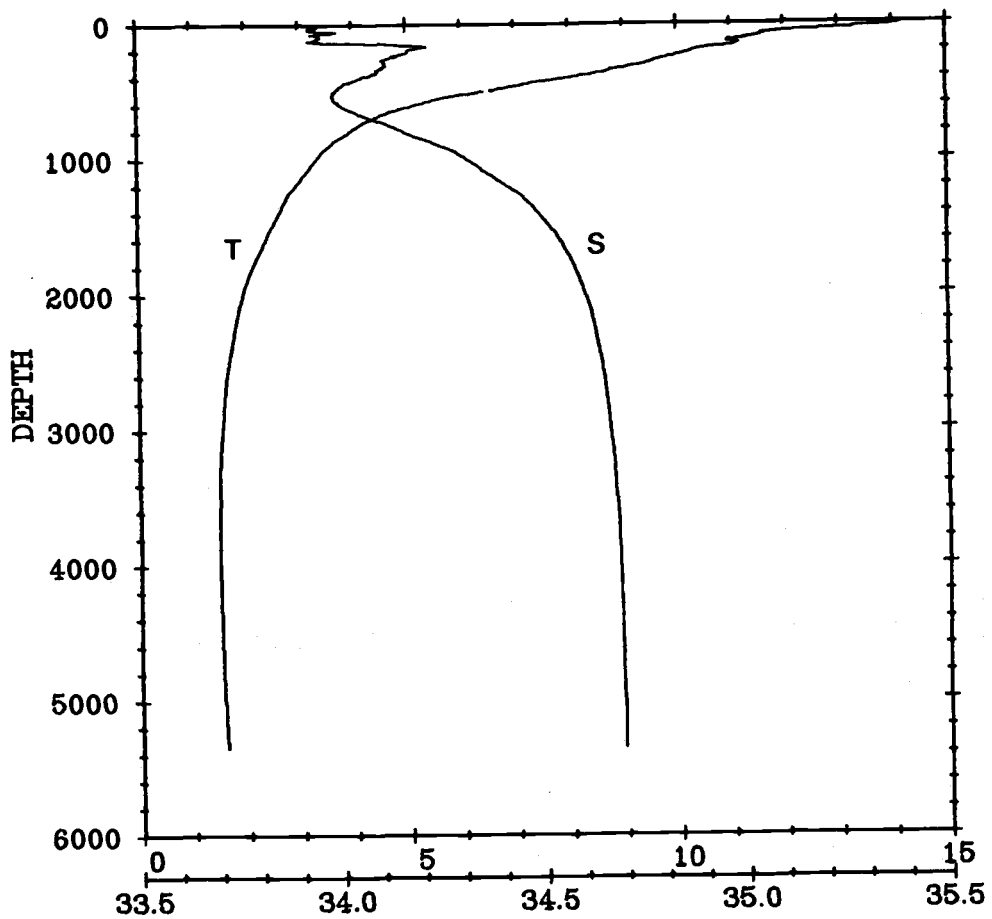
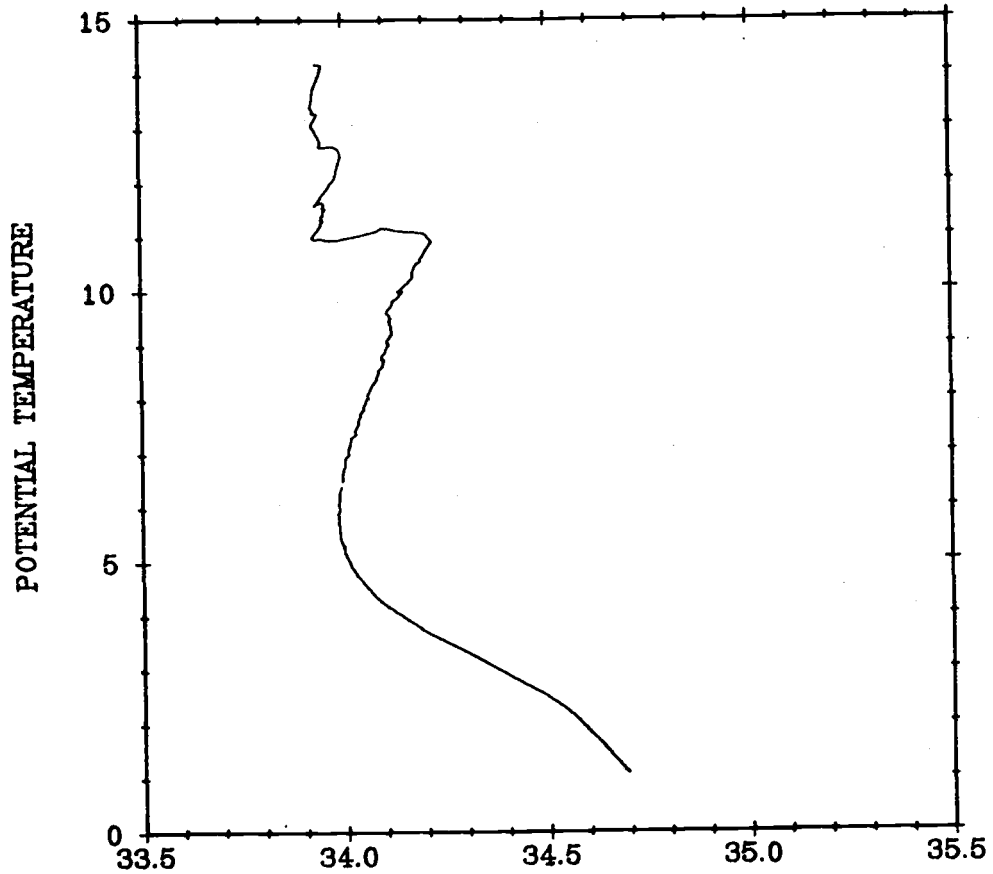
CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	14.898	33.949	25.185	33.818	42.076	277.200	0.000	0
20	14.709	33.965	25.239	33.878	42.143	272.679	0.055	19
40	13.545	34.041	25.542	34.224	42.528	244.357	0.107	39
60	12.655	34.043	25.722	34.438	42.774	227.719	0.154	59
80	12.229	34.060	25.818	34.551	42.903	219.041	0.199	79
100	12.028	34.058	25.855	34.596	42.955	215.006	0.242	99
150	11.410	34.204	26.095	34.849	43.230	195.312	0.345	149
200	10.401	34.128	26.207	35.014	43.435	184.598	0.440	198
250	10.113	34.143	26.269	35.089	43.520	179.703	0.531	248
300	9.725	34.136	26.329	35.166	43.614	174.827	0.620	298
350	9.192	34.119	26.404	35.264	43.734	168.455	0.705	347
400	8.269	34.068	26.508	35.410	43.919	158.834	0.787	397
450	7.413	34.024	26.599	35.540	44.087	150.334	0.865	446
500	6.582	33.994	26.689	35.670	44.253	141.718	0.938	496
600	5.198	33.997	26.853	35.911	44.558	124.829	1.071	595
700	4.355	34.079	27.022	36.112	44.797	109.627	1.198	694
800	3.921	34.158	27.130	36.242	44.947	99.606	1.293	793
900	3.608	34.237	27.225	36.351	45.072	90.960	1.388	892
1000	3.360	34.305	27.304	36.442	45.174	83.834	1.475	991
1100	3.167	34.357	27.364	36.512	45.253	78.478	1.556	1090
1200	2.967	34.410	27.425	36.583	45.334	72.928	1.632	1189
1300	2.836	34.448	27.467	36.633	45.389	69.230	1.703	1287
1400	2.697	34.480	27.505	36.678	45.442	65.849	1.771	1386
1500	2.559	34.512	27.543	36.724	45.494	62.440	1.835	1485
1518	2.531	34.518	27.551	36.732	45.504	61.768	1.846	1503

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUS/LN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
3	14.844	33.942	6.03	105.0	5.6	0.20	0.0	0.00	14.844	25.191	33.826	42.086	3
52	12.622	34.036	6.05	100.7	5.8	0.34	1.5	0.71	12.615	25.722	34.440	42.778	52
101	12.118	34.084	5.83	96.0	6.4	0.48	5.2	0.02	12.105	25.858	34.595	42.951	101
135	11.496	34.155	5.62	91.4	9.9	0.67	8.6	0.01	11.479	26.031	34.792	43.170	135
167	10.789	34.173	5.61	89.8	12.7	0.82	10.9	0.01	10.769	26.173	34.963	43.368	167
201	10.324	34.125	5.68	90.0	13.6	0.84	11.2	0.01	10.300	26.219	35.028	43.452	202
252	9.993	34.142	5.63	88.6	15.8	0.91	12.5	0.01	9.964	26.288	35.113	43.550	253
301	9.584	34.130	5.40	84.2	19.3	1.03	14.5	0.01	9.550	26.348	35.190	43.644	302
401	8.224	34.066	4.57	69.0	32.0	1.46	21.0	0.00	8.182	26.513	35.417	43.927	403
501	6.639	33.996	3.62	52.7	49.1	1.96	27.9	0.00	6.593	26.693	35.661	44.242	504
601	5.218	33.996	2.43	34.2	73.5	2.47	35.3	0.00	5.169	26.860	35.907	44.553	605
701	4.365	34.076	1.34	18.5	96.0	2.83	40.8	0.00	4.312	27.019	36.108	44.793	706
800	3.897	34.163	0.74	10.1	112.6	3.02	43.5	0.00	3.838	27.137	36.249	44.956	806
900	3.587	34.242	0.42	5.7	124.4	3.12	44.8	0.00	3.522	27.231	36.358	45.080	907
1000	3.344	34.308	0.29	3.9	134.5	3.16	45.4	0.00	3.273	27.307	36.447	45.179	1008
1252	2.892	34.435	0.25	3.3	152.0	3.19	45.9	0.00	2.805	27.452	36.614	45.368	1263
1501	2.534	34.518D	0.56	7.4	162.2		45.2	0.00	2.430	27.550	36.731	45.503	1515

MARATHON 2 STA. 43



MARATHON 2 STA. 44

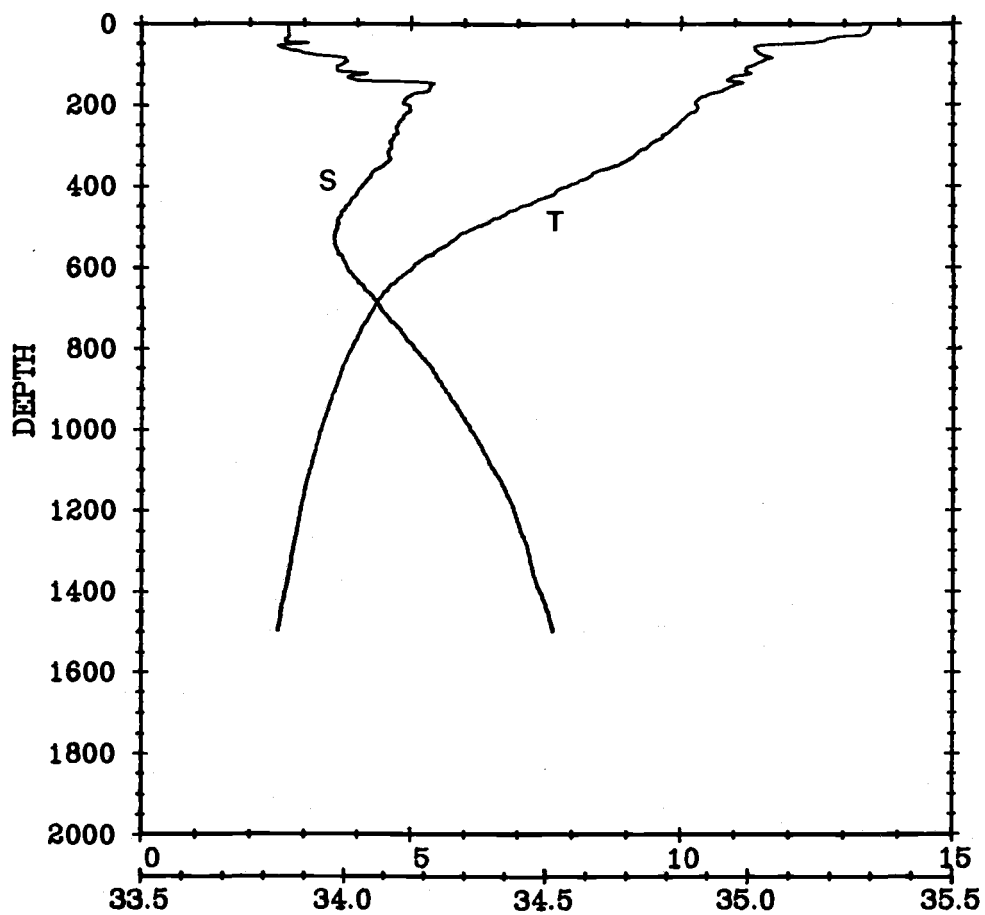
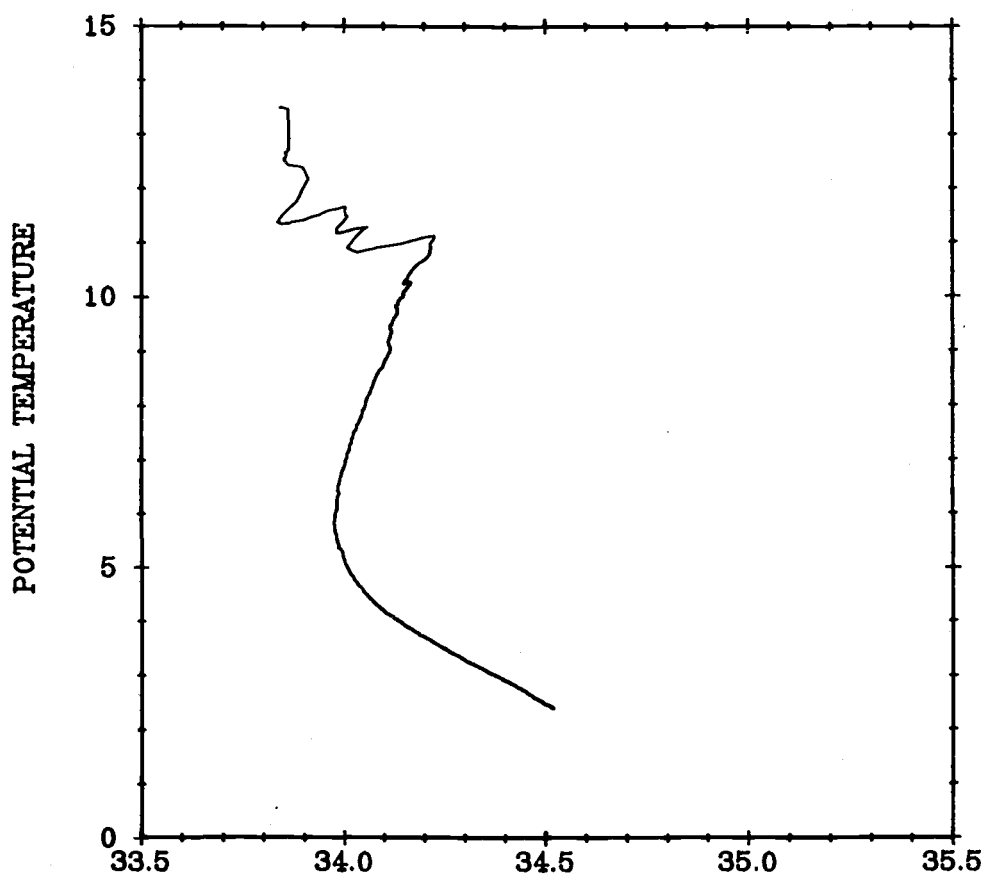


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
36 46.2N	151 59.9W	5/18/84	1600	5528	210	26	15.6	15.6	1011.9

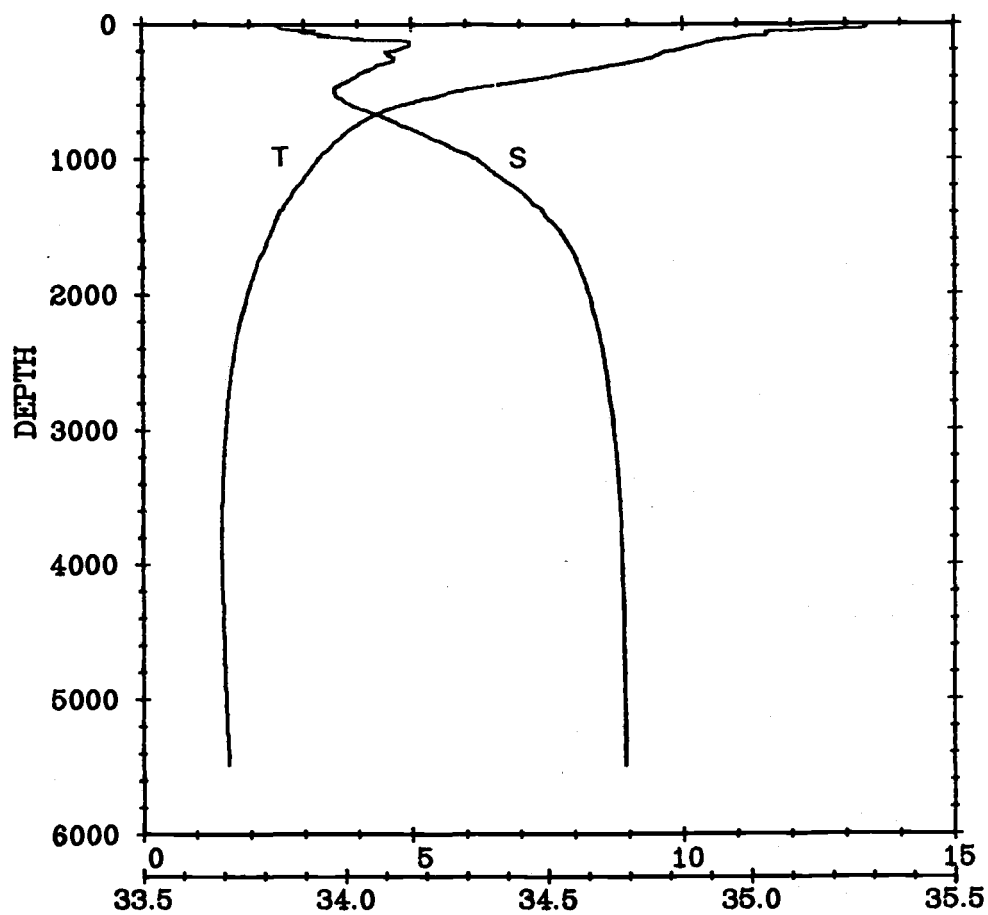
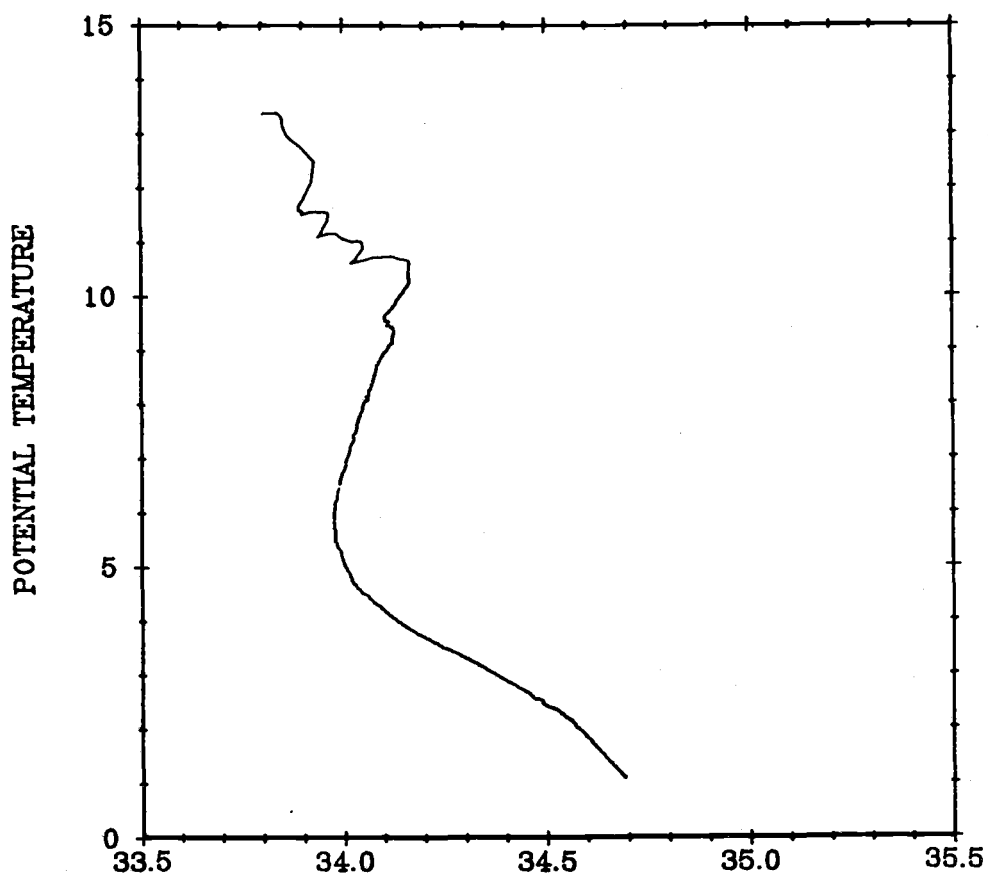
CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP								
DB	DEG C		DEG C				CL/TON		M
0	13.474	33.856	13.474	25.412	34.099	42.408	255.573	0.000	0
20	13.380	33.861	13.377	25.436	34.126	42.438	253.892	0.051	19
40	12.618	33.861	12.613	25.587	34.308	42.647	239.950	0.100	39
60	11.500	33.861	11.493	25.800	34.565	42.946	220.186	0.146	59
80	11.536	33.952	11.526	25.864	34.627	43.005	214.551	0.190	79
100	11.371	33.993	11.359	25.927	34.695	43.080	209.068	0.232	99
150	10.977	34.181	10.959	26.146	34.928	43.325	189.439	0.332	149
200	10.277	34.155	10.254	26.249	35.061	43.486	180.529	0.424	198
250	9.922	34.135	9.893	26.295	35.122	43.562	177.141	0.514	248
300	9.414	34.116	9.381	26.365	35.215	43.676	171.279	0.601	298
350	8.804	34.098	8.767	26.449	35.326	43.812	163.921	0.685	347
400	7.942	34.046	7.902	26.539	35.456	43.979	155.593	0.764	397
450	7.122	34.006	7.079	26.625	35.580	44.139	147.555	0.840	446
500	6.272	33.981	6.228	26.719	35.714	44.312	138.538	0.912	496
600	5.054	34.005	5.006	26.886	35.941	44.594	122.474	1.042	595
700	4.308	34.086	4.255	27.033	36.125	44.812	108.561	1.158	694
800	3.889	34.171	3.831	27.144	36.257	44.964	98.275	1.261	793
900	3.577	34.246	3.513	27.235	36.363	45.085	89.942	1.355	892
1000	3.318	34.309	3.248	27.311	36.452	45.185	83.065	1.442	991
1100	3.116	34.365	3.040	27.375	36.526	45.269	77.309	1.522	1090
1200	2.929	34.417	2.846	27.433	36.594	45.346	71.980	1.597	1189
1300	2.788	34.453	2.699	27.475	36.643	45.402	68.314	1.667	1287
1400	2.657	34.480	2.561	27.509	36.684	45.449	65.389	1.734	1386
1500	2.517	34.515	2.415	27.549	36.732	45.504	61.734	1.797	1485
1512	2.501	34.518	2.398	27.553	36.736	45.510	61.390	1.805	1497

NISKIN BOTTLE DATA		SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP													
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	13.432	33.855	6.29	106.4	5.6	0.28	0.7	0.02		13.432	25.420	34.108	42.418	1
51	11.584	33.873	6.31	102.6	4.4	0.46	3.2	0.17		11.578	25.793	34.554	42.932	51
97	11.266	33.967	6.09	98.4	7.0	0.53	5.2	0.23		11.254	25.926	34.698	43.088	97
125	11.184	34.082	5.77	93.2	9.1	0.66	8.0	0.01		11.169	26.031	34.805	43.196	125
159	10.577	34.177	5.58	89.0	14.2	0.88	11.6	0.01		10.558	26.213	35.012	43.425	159
197	10.153	34.141	5.62	88.7	15.2	0.89	12.2	0.01		10.130	26.259	35.076	43.507	197
243	9.710	34.105	5.63	88.0	16.8	0.95	12.9	0.01		9.682	26.307	35.144	43.592	243
291	9.322	34.110	5.25	81.3	21.7	1.11	15.7	0.01		9.290	26.375	35.229	43.693	291
399	7.552	34.026	4.27	63.5	38.0	1.64	23.6	0.01		7.513	26.580	35.514	44.055	399
493	6.050	33.974	3.31	47.5	57.4	2.14	30.4	0.00		6.007	26.741	35.748	44.355	493
593	5.044	34.005	2.30	32.2	77.2	2.54	36.1	0.00		4.996	26.887	35.943	44.596	593
675	4.408	34.066	1.45	20.0	94.0	2.80	40.3	0.00		4.356	27.005	36.093	44.776	675
748	4.087	34.127	1.06	14.5	105.0	2.94	42.1	0.00		4.031	27.088	36.191	44.889	748
863	3.659	34.224	0.50	6.8	123.3	3.10	44.3	0.00		3.597	27.209	36.333	45.051	863
963	3.406	34.286	0.32	4.3	132.7	3.14	45.1	0.00		3.337	27.284	36.420	45.150	963
1186	2.961	34.406	0.25	3.3	150.7	3.18	45.8	0.00		2.878	27.422	36.581	45.331	1186
1490	2.506	34.519	0.59	7.8	163.8		45.1	0.00		2.403	27.553	36.736	45.509	1490

MARATHON 2 STA. 45



MARATHON 2 STA. 46

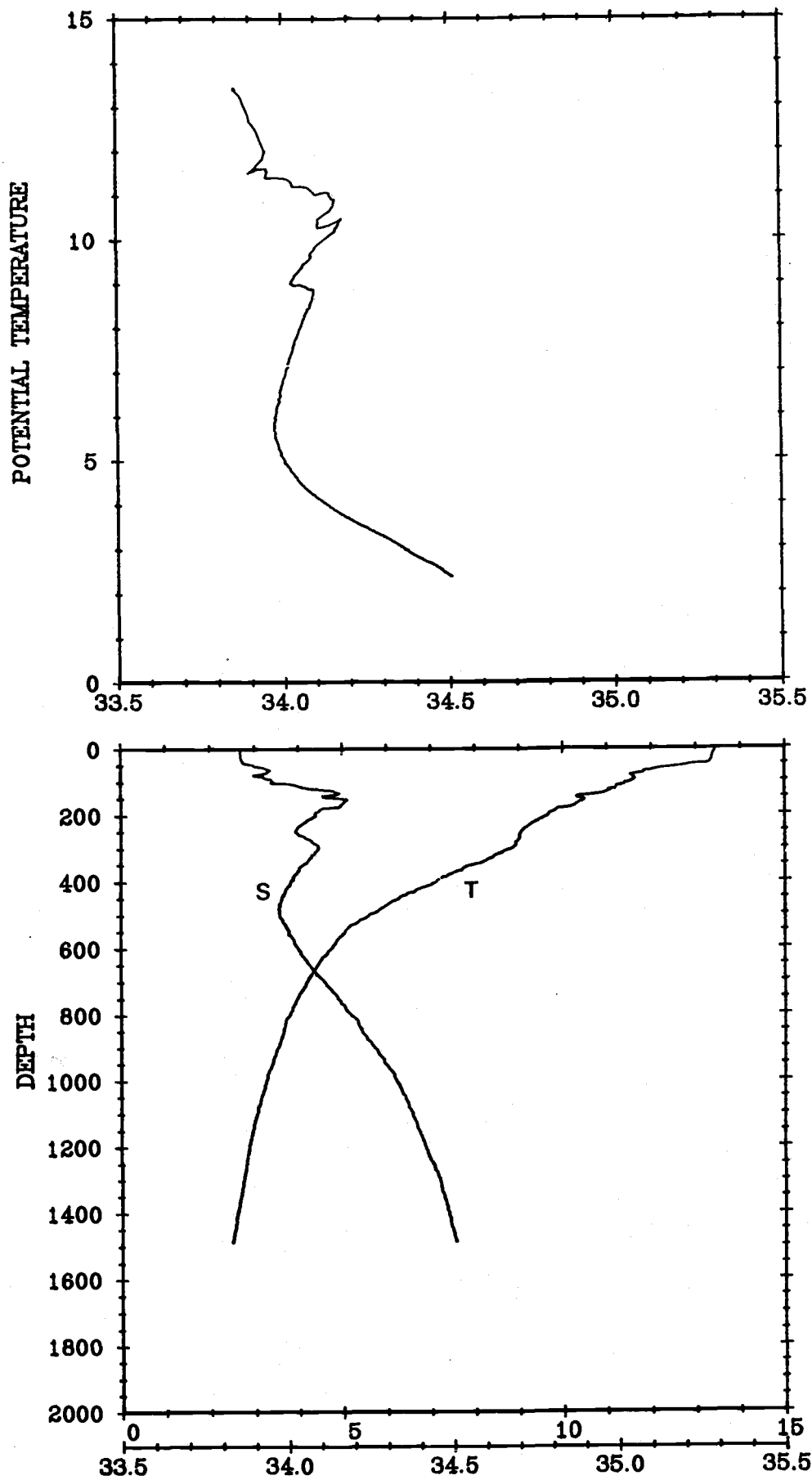


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
37 27.1N	152 0.7W	5/19/84	436	5565	350	10	12.8	11.1	1020.7

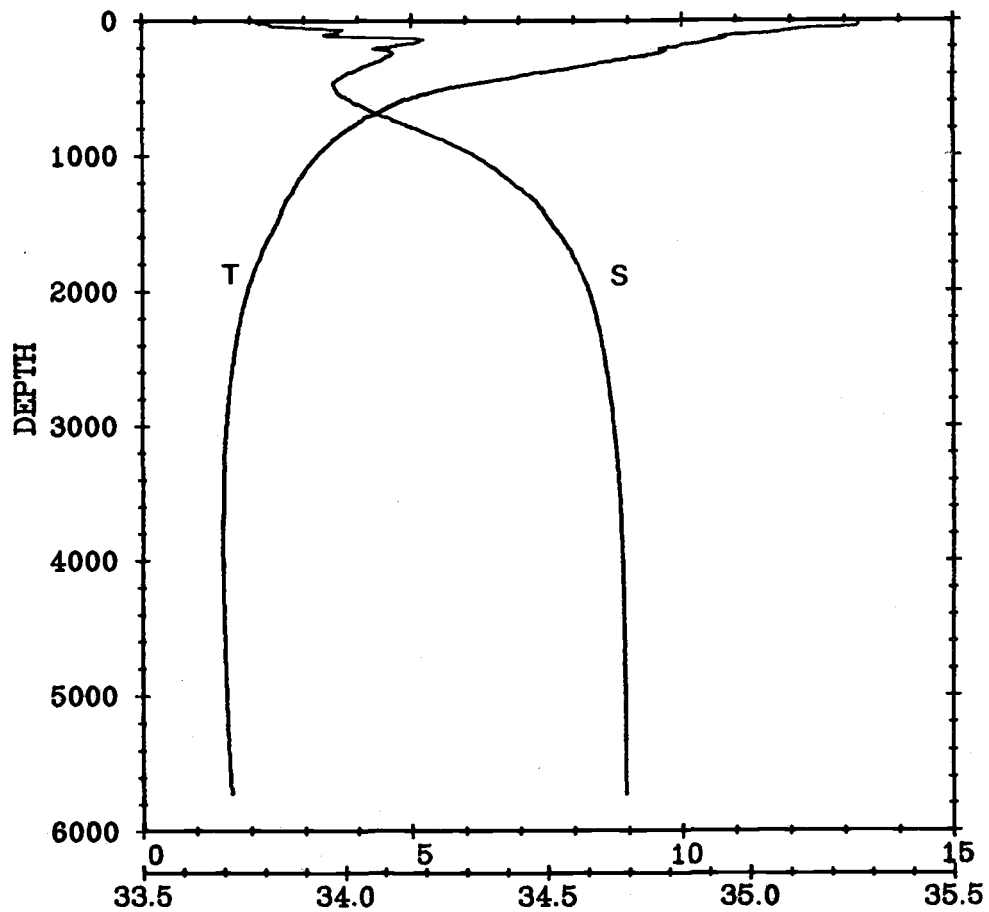
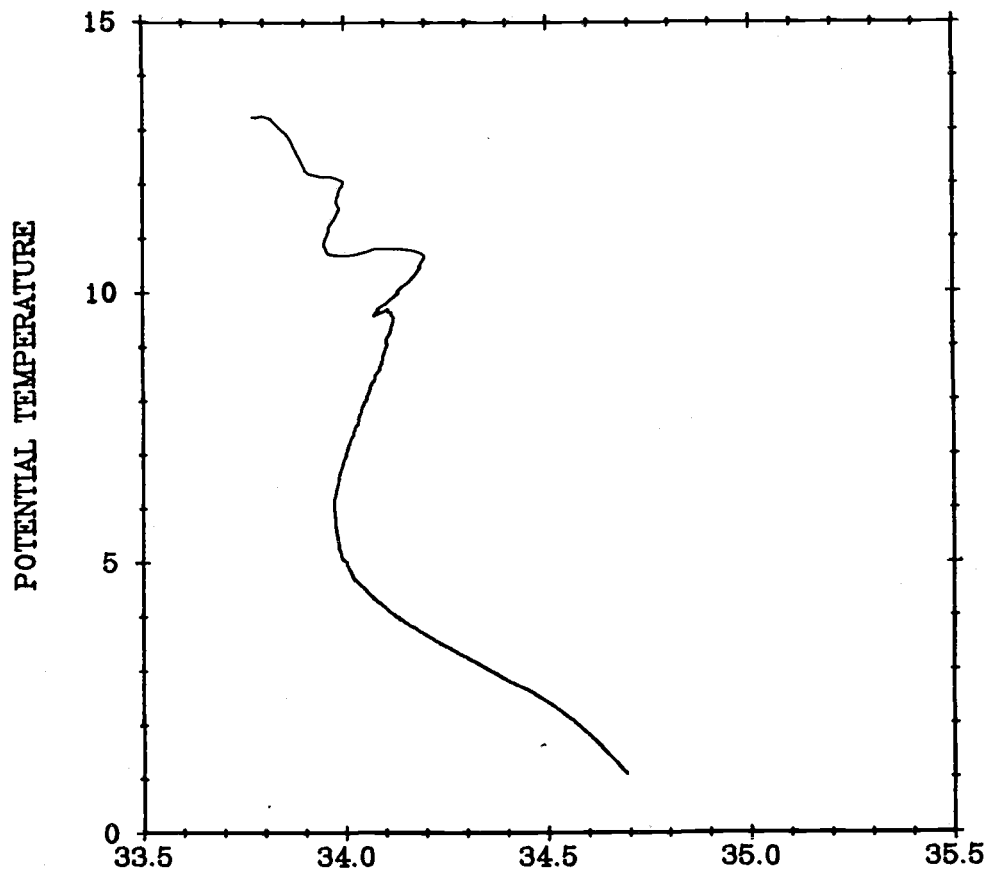
CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	13.418	33.855	13.418	25.423	34.112	42.423	254.565	0.000	0
20	13.387	33.858	13.384	25.432	34.122	42.434	254.247	0.051	19
40	13.258	33.869	13.253	25.467	34.162	42.479	251.454	0.101	39
60	12.334	33.925	12.326	25.693	34.423	42.773	230.460	0.150	59
80	11.664	33.922	11.654	25.817	34.575	42.949	219.032	0.195	79
100	11.506	33.961	11.494	25.877	34.641	43.021	213.804	0.238	99
150	10.437	34.143	10.419	26.211	35.016	43.435	183.055	0.337	149
200	9.662	34.083	9.640	26.297	35.136	43.587	175.776	0.427	198
250	9.064	34.027	9.037	26.351	35.217	43.693	171.401	0.514	248
300	8.832	34.090	8.800	26.438	35.313	43.798	164.051	0.597	298
350	8.014	34.049	7.979	26.530	35.443	43.963	155.616	0.677	347
400	7.130	34.010	7.092	26.626	35.581	44.140	146.639	0.753	397
450	6.299	33.982	6.259	26.715	35.710	44.306	138.173	0.824	446
500	5.657	33.974	5.615	26.790	35.815	44.441	131.130	0.891	496
600	4.757	34.027	4.710	26.937	36.006	44.673	117.276	1.016	595
700	4.193	34.105	4.141	27.060	36.157	44.850	105.822	1.127	694
800	3.794	34.184	3.736	27.164	36.281	44.993	96.233	1.228	793
900	3.522	34.255	3.458	27.248	36.378	45.102	88.654	1.321	892
1000	3.257	34.323	3.187	27.328	36.471	45.208	81.343	1.406	991
1100	3.045	34.370	2.969	27.385	36.540	45.285	76.142	1.484	1090
1200	2.865	34.411	2.784	27.434	36.599	45.354	71.714	1.558	1189
1300	2.724	34.452	2.636	27.480	36.651	45.414	67.662	1.628	1287
1400	2.597	34.480	2.502	27.514	36.692	45.460	64.703	1.694	1386
1500	2.475	34.504	2.373	27.544	36.729	45.504	62.059	1.758	1485
1504	2.469	34.506	2.367	27.546	36.731	45.506	61.863	1.760	1489

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
1	13.412	6.41	108.4	4.9	0.22	0.0	0.00	13.412	25.425	34.115	42.426	1	
53	12.969	6.30	105.5	5.1	0.30	0.9	0.03	12.962	25.539	34.245	42.572	53	
103	11.240	5.91	95.5	7.2	0.59	6.4	0.01	11.227	25.947	34.721	43.111	103	
136	10.525	5.66	90.1	13.1	0.83	10.9	0.01	10.509	26.170	34.971	43.387	136	
170	10.028	5.66	89.1	15.1	0.92	12.1	0.00	10.008	26.262	35.085	43.520	171	
203	9.652	5.67	88.5	17.2	0.96	12.3	0.00	9.629	26.305	35.145	43.596	204	
252	9.000	5.65	86.9	19.3	1.04	14.1	0.00	8.973	26.363	35.232	43.710	253	
302	8.748	4.85	74.2	27.3	1.33	18.9	0.00	8.716	26.451	35.331	43.819	303	
400	7.272	4.06	60.0	41.0	1.76	25.0	0.00	7.233	26.612	35.560	44.112	402	
500	5.635	2.97	42.2	64.4	2.30	32.5	0.00	5.593	26.794	35.820	44.447	503	
602	4.771	1.96	27.3	84.6	2.67	37.9	0.00	4.724	26.934	36.003	44.669	606	
700	4.233	1.28	17.6	100.7	2.89	41.1	0.00	4.180	27.050	36.146	44.837	705	
799	3.805	0.67	9.1	115.5	3.08	43.8	0.00	3.747	27.159	36.276	44.987	805	
897	3.529	0.37	5.0	127.4	3.17	45.0	0.00	3.465	27.244	36.375	45.098	904	
995	3.283	0.24	3.2	136.5	3.20	45.6	0.00	3.213	27.321	36.463	45.199	1003	
1239	2.800	0.23	3.1	156.8	3.22	46.0	0.00	2.715	27.456	36.623	45.381	1250	
1487	2.472	0.46	6.1	165.5		45.5	0.00	2.370	27.547	36.731	45.506	1501	

MARATHON 2 STA. 47



MARATHON 2 STA. 48



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
38 8.3N	151 59.2W	5/19/84	1642	4936	40	3	13.3	10.0	1027.4

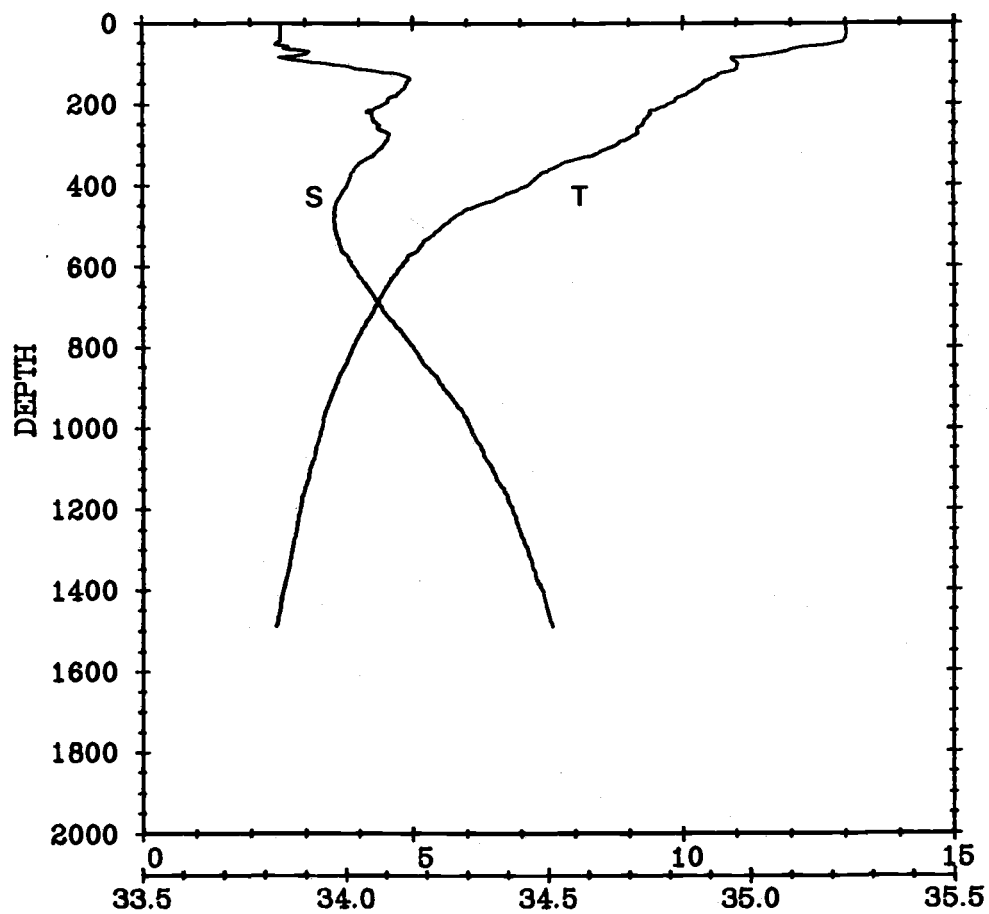
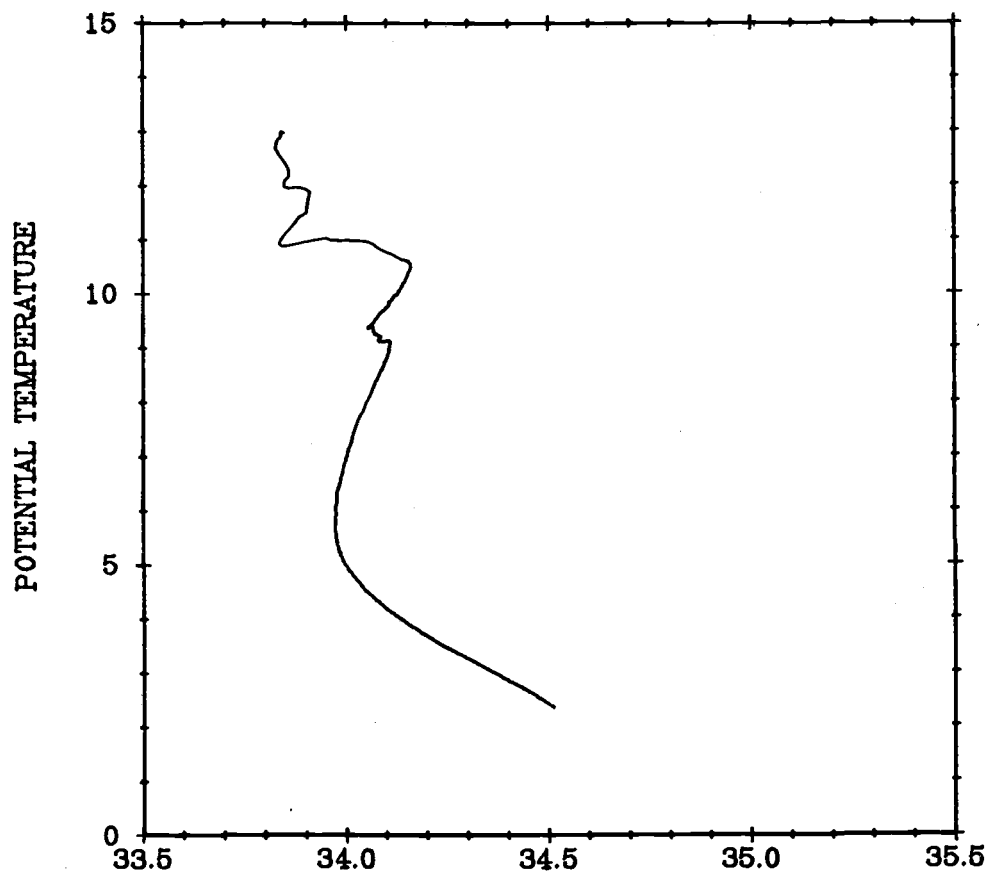
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	13.008	33.842	13.008	25.495	34.200	42.526	247.695	0.000	0
20	13.011	33.841	13.008	25.494	34.199	42.525	248.314	0.050	19
40	12.960	33.839	12.955	25.503	34.210	42.538	247.984	0.099	39
60	12.285	33.853	12.277	25.646	34.380	42.732	234.866	0.143	59
80	11.410	33.879	11.400	25.831	34.599	42.984	217.721	0.193	79
100	10.990	33.939	10.978	25.954	34.739	43.139	206.441	0.235	99
150	10.364	34.153	10.346	26.232	35.040	43.461	181.097	0.332	149
200	9.745	34.096	9.722	26.293	35.128	43.576	176.152	0.421	198
250	9.249	34.078	9.222	26.361	35.218	43.686	170.526	0.508	248
300	8.793	34.097	8.761	26.449	35.326	43.813	162.932	0.591	298
350	7.773	34.034	7.738	26.554	35.478	44.008	153.213	0.670	347
400	7.142	34.004	7.104	26.620	35.574	44.132	147.251	0.746	397
450	6.269	33.976	6.229	26.715	35.710	44.308	138.225	0.817	446
500	5.597	33.973	5.555	26.796	35.824	44.453	130.452	0.884	496
600	4.815	34.017	4.768	26.922	35.989	44.654	118.709	1.009	595
700	4.316	34.084	4.263	27.030	36.122	44.809	108.802	1.122	694
800	3.897	34.164	3.839	27.138	36.250	44.957	98.887	1.226	793
900	3.556	34.239	3.492	27.232	36.361	45.083	90.225	1.321	892
1000	3.304	34.305	3.234	27.309	36.451	45.185	83.204	1.408	991
1100	3.099	34.357	3.023	27.370	36.522	45.266	77.711	1.489	1090
1200	2.905	34.407	2.823	27.428	36.590	45.343	72.449	1.563	1188
1300	2.764	34.443	2.675	27.469	36.639	45.399	68.780	1.634	1287
1400	2.615	34.479	2.520	27.512	36.689	45.457	64.992	1.701	1386
1500	2.474	34.509	2.372	27.548	36.733	45.507	61.680	1.764	1485
1506	2.458	34.512	2.356	27.552	36.737	45.513	61.305	1.768	1490

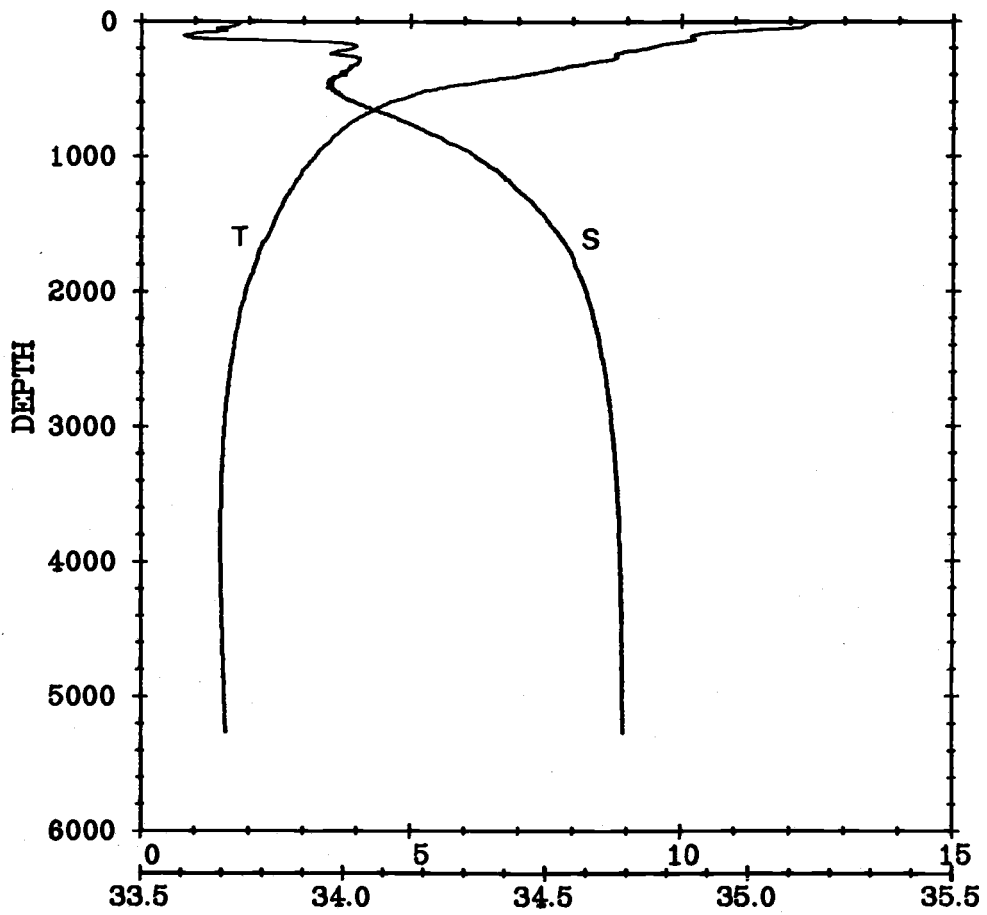
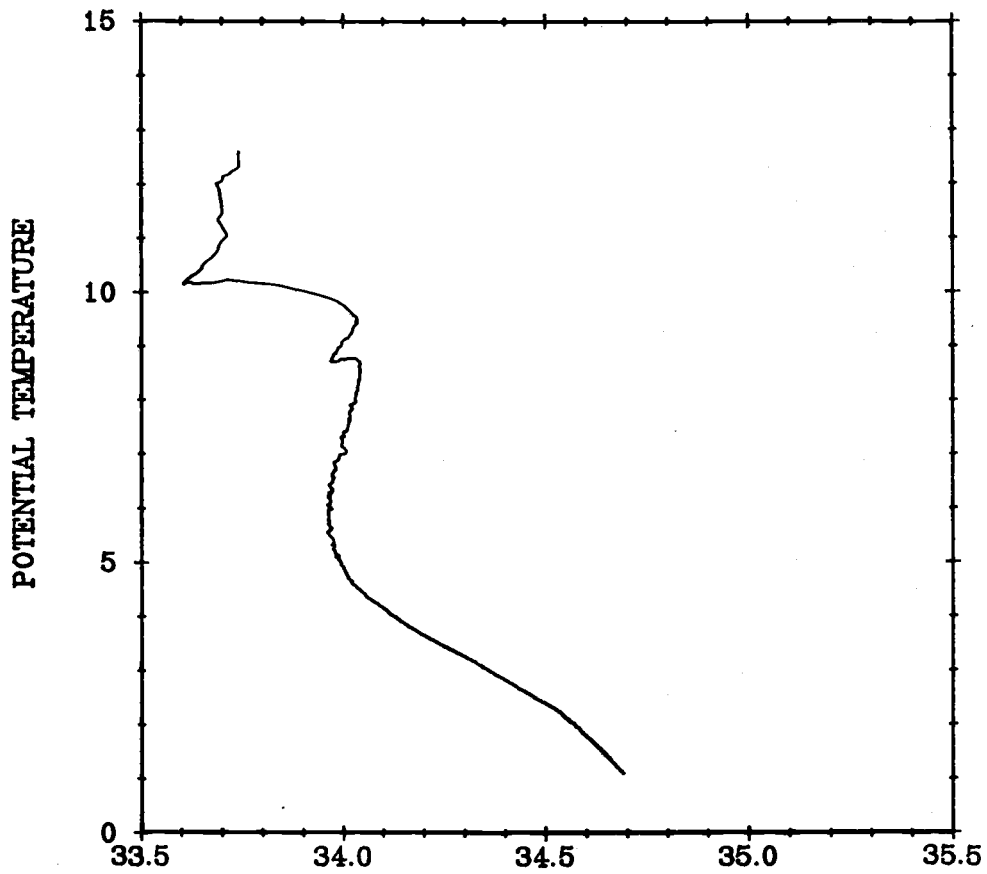
NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	13.024	33.835	6.29	105.5	4.0	0.28	0.4	0.02		13.024	25.486	34.191	42.516	1
52	12.160	33.887	6.17	101.6	4.9	0.38	1.9	0.36		12.153	25.696	34.434	42.790	52
101	10.977	34.037	5.78	92.9	8.8	0.66	8.1	0.01		10.965	26.032	34.816	43.215	101
134	10.479	34.158	5.63	89.6	13.7	0.86	11.4	0.01		10.463	26.215	35.018	43.435	134
167	10.128	34.136	5.65	89.2	14.8	0.90	12.0	0.01		10.109	26.259	35.077	43.509	168
201	9.640	34.084	5.72	89.3	16.4	0.94	12.5	0.01		9.617	26.301	35.141	43.593	202
250	9.360	34.080	5.56	86.2	18.9	1.02	14.0	0.01		9.332	26.345	35.197	43.660	251
299	9.008	34.109	4.96	76.3	25.7	1.26	17.8	0.01		8.975	26.425	35.292	43.769	300
398	7.274	34.011	4.07	60.2	40.8	1.75	24.9	0.01		7.236	26.607	35.555	44.107	400
500	5.767	33.972	3.09	44.1	62.8	2.25	31.7	0.01		5.724	26.775	35.795	44.415	503
599	4.790	34.020	2.01	28.0	83.3	2.65	37.6	0.00		4.743	26.927	35.995	44.661	603
698	4.248	34.095	1.27	17.5	99.7	2.89	41.1	0.00		4.195	27.046	36.141	44.831	703
798	3.879	34.167	0.78	10.6	114.5	3.04	43.2	0.00		3.820	27.142	36.255	44.962	804
896	3.530	34.245	0.46	6.2	128.3	3.12	44.5	0.00		3.466	27.239	36.369	45.093	903
995	3.294	34.308	0.29	3.9	139.2	3.20	45.3	0.00		3.224	27.312	36.454	45.189	1003
1237	2.828	34.428	0.26	3.5	156.7	3.21	45.8	0.00		2.743	27.451	36.617	45.374	1248
1486	2.465	34.512	0.50	6.6	168.2		45.4	0.00		2.363	27.551	36.736	45.511	1500

MARATHON 2 STA. 49



MARATHON 2 STA. 50



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
38 50.9N	151 59.1W	5/19/84	430	5358	170	7	12.8	10.0	1026.8

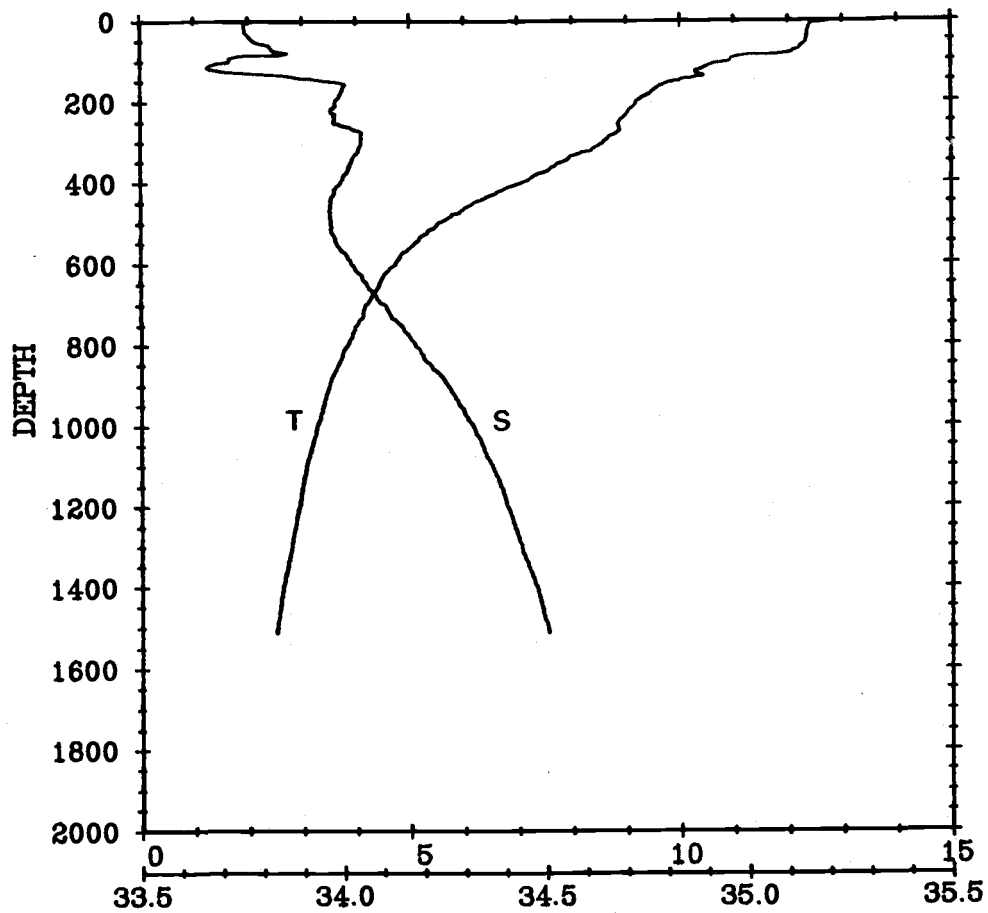
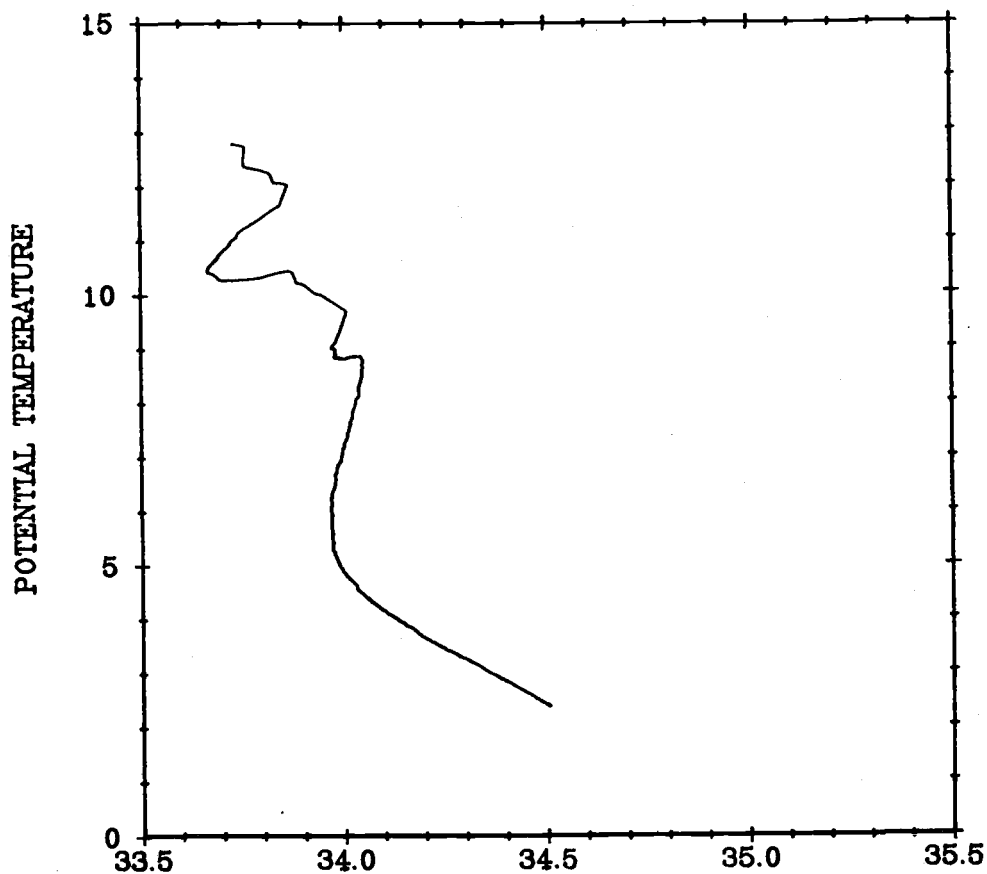
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	12.602	33.751	12.602	25.504	34.227	42.568	246.805	0.000	0
20	12.379	33.759	12.376	25.554	34.285	42.635	242.580	0.049	19
40	12.340	33.770	12.335	25.571	34.303	42.654	241.522	0.097	39
60	12.260	33.808	12.252	25.616	34.351	42.705	237.724	0.145	59
80	11.809	33.820	11.799	25.711	34.464	42.834	229.140	0.192	79
100	10.858	33.712	10.846	25.800	34.594	43.002	220.953	0.237	99
150	9.926	33.955	9.909	26.152	34.981	43.423	188.524	0.339	149
200	9.195	33.982	9.173	26.294	35.154	43.625	175.852	0.430	198
250	8.870	33.983	8.843	26.347	35.222	43.707	171.657	0.517	248
300	8.569	34.044	8.538	26.442	35.330	43.826	163.430	0.601	298
350	7.814	34.020	7.779	26.537	35.459	43.988	154.844	0.681	347
400	7.079	33.993	7.041	26.620	35.577	44.138	147.192	0.756	397
450	6.207	33.968	6.168	26.716	35.715	44.315	138.009	0.827	446
500	5.561	33.969	5.519	26.797	35.828	44.458	130.300	0.895	496
600	4.733	34.020	4.686	26.934	36.005	44.673	117.513	1.018	595
700	4.206	34.097	4.154	27.052	36.149	44.842	106.566	1.130	694
800	3.830	34.176	3.772	27.154	36.269	44.979	97.234	1.232	793
900	3.481	34.254	3.418	27.251	36.384	45.110	88.269	1.325	892
1000	3.265	34.313	3.195	27.319	36.463	45.199	82.174	1.410	991
1100	3.055	34.362	2.979	27.378	36.532	45.278	76.847	1.490	1090
1200	2.918	34.399	2.836	27.420	36.582	45.334	73.187	1.565	1188
1300	2.779	34.434	2.690	27.461	36.630	45.389	69.615	1.636	1287
1400	2.624	34.470	2.529	27.504	36.681	45.448	65.749	1.704	1386
1500	2.513	34.498	2.411	27.536	36.719	45.492	62.939	1.768	1485
1526	2.480	34.505	2.376	27.545	36.729	45.504	62.176	1.785	1510

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
3	12.744	33.767	6.31	105.1	3.7	0.39	1.2	0.03	12.744	25.489	34.205	42.541		3
53	12.284	33.762	6.33	104.4	3.8	0.37	1.5	0.04	12.277	25.575	34.310	42.663		53
100	10.700	33.687	6.31	100.6	3.5	0.58	3.9	0.28	10.688	25.809	34.609	43.024		100
134	10.704	33.845	5.98	95.4	6.9	0.67	7.0	0.02	10.688	25.932	34.730	43.142		134
167	9.596	34.016	5.74	89.5					9.577	26.254	35.097	43.551		167
200	9.262	34.011	5.79	89.6	17.6	0.98	12.7	0.01	9.240	26.305	35.163	43.631		201
246	8.883	34.011	5.53	84.8	21.2	1.11	14.9	0.00	8.857	26.366	35.240	43.724		247
293	8.575	34.055	4.92	74.9	28.0	1.35	18.9	0.00	8.544	26.450	35.337	43.833		294
392	6.951	33.991	3.90	57.2	45.2	1.86	26.3	0.00	6.914	26.637	35.600	44.167		394
481	5.702	33.969	3.04	43.3	62.6	2.29	32.1	0.00	5.661	26.780	35.803	44.427		484
571	4.847	34.003	2.18	30.4	81.0	2.63	36.7	0.00	4.802	26.907	35.973	44.636		575
662	4.321	34.073	1.49	20.5	97.6	2.87	40.4	0.00	4.271	27.021	36.112	44.799		667
756	3.971	34.143	0.88	12.0	112.6	3.03	43.0	0.00	3.915	27.113	36.221	44.925		762
854	3.601	34.224	0.46	6.2	125.6	3.15	44.6	0.00	3.540	27.215	36.342	45.062		861
952	3.359	34.288	0.29	3.9	134.3	3.20	45.4	0.00	3.292	27.290	36.428	45.160		960
1216	2.866	34.412	0.24	3.2	152.8	3.24	45.8	0.00	2.782	27.435	36.599	45.355		1227
1508	2.482	34.506	0.47	6.2	167.3		45.6	0.00	2.378	27.545	36.729	45.504		1523

MARATHON 2 STA. 51

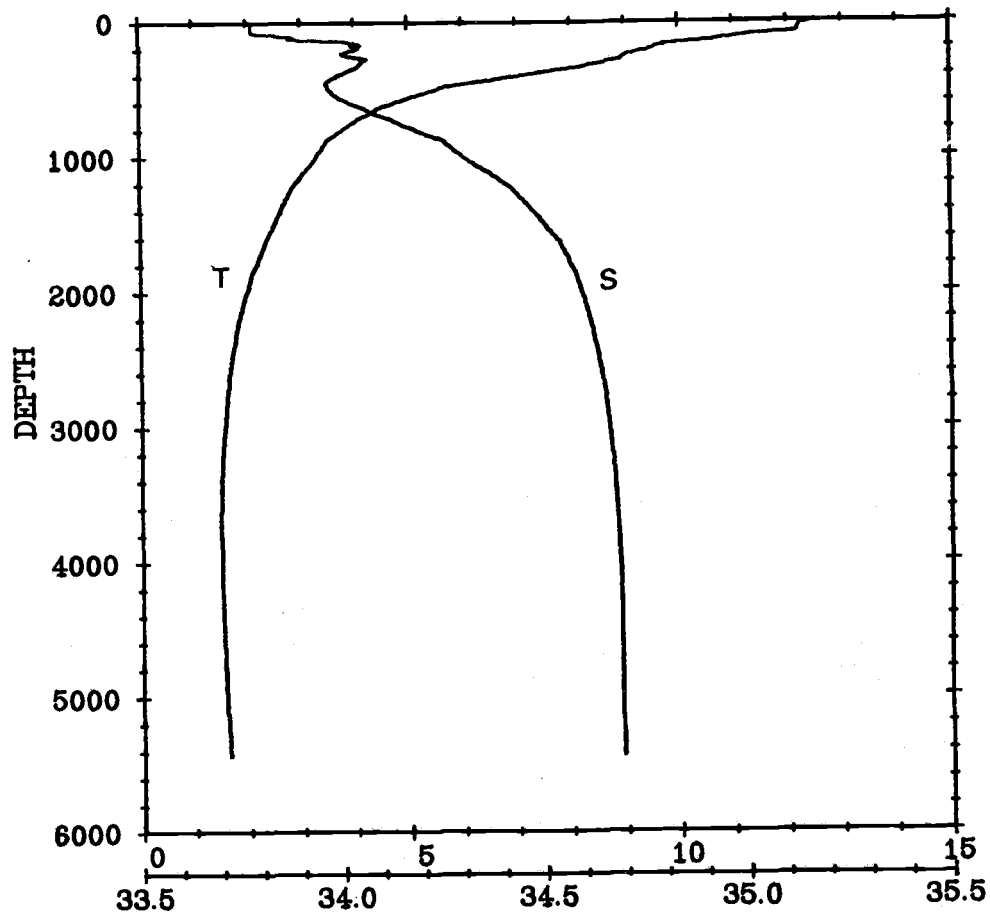
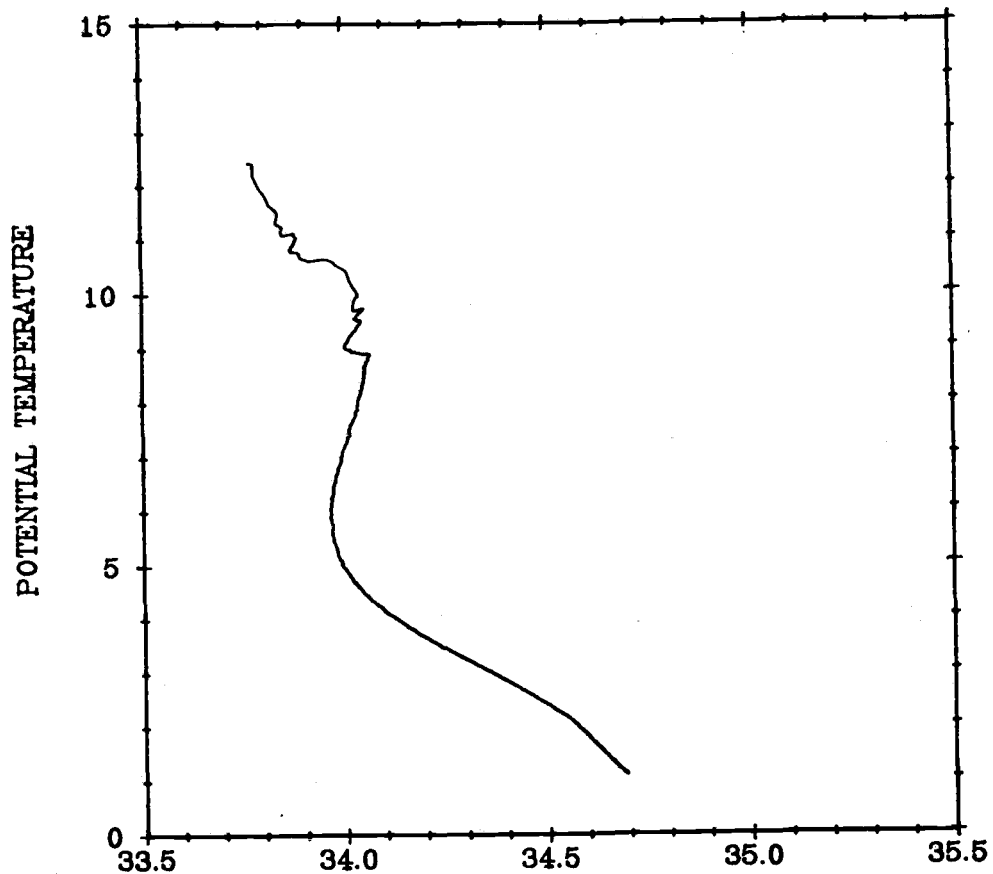


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
39 14.3N	151 59.2W	5/20/84	1042	5503	180	20	12.8	11.7	1022.4

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON			M
0	12.431	33.777	12.431	25.557	34.286	42.634	241.736	0.000		0
20	12.314	33.780	12.311	25.583	34.316	42.658	239.842	0.048		19
40	12.221	33.780	12.216	25.601	34.338	42.693	238.611	0.096		39
60	12.201	33.780	12.193	25.605	34.344	42.700	238.710	0.144		59
80	12.047	33.792	12.037	25.645	34.389	42.750	235.489	0.191		79
100	11.339	33.843	11.327	25.816	34.583	42.976	219.575	0.237		99
150	10.254	34.011	10.237	26.140	34.954	43.382	189.760	0.339		149
200	9.482	34.038	9.460	26.291	35.139	43.597	176.227	0.430		198
250	8.998	34.015	8.971	26.352	35.221	43.700	171.264	0.517		248
300	8.619	34.051	8.587	26.440	35.326	43.820	163.672	0.601		298
350	7.898	34.030	7.863	26.532	35.451	43.976	155.325	0.681		347
400	7.068	33.992	7.030	26.621	35.579	44.140	147.114	0.756		397
450	6.203	33.965	6.164	26.714	35.714	44.314	138.179	0.828		446
500	5.541	33.969	5.499	26.800	35.811	44.462	130.051	0.895		496
600	4.750	34.019	4.703	26.931	36.001	44.669	117.788	1.019		595
700	4.183	34.098	4.131	27.055	36.153	44.947	106.228	1.131		694
800	3.774	34.181	3.717	27.163	36.282	44.994	96.231	1.232		793
900	3.451	34.259	3.388	27.257	36.392	45.120	87.563	1.324		892
1000	3.285	34.301	3.215	27.307	36.450	45.186	83.288	1.409		991
1100	3.092	34.351	3.016	27.365	36.518	45.263	78.076	1.490		1090
1200	2.892	34.402	2.810	27.425	36.588	45.342	72.672	1.565		1188
1300	2.745	34.441	2.656	27.470	36.640	45.401	68.712	1.636		1287
1400	2.611	34.472	2.516	27.506	36.684	45.452	65.453	1.703		1386
1500	2.491	34.499	2.389	27.539	36.723	45.497	62.612	1.767		1484
1600	2.363	34.527	2.255	27.572	36.763	45.543	59.568	1.828		1583
1700	2.265	34.548	2.150	27.598	36.794	45.579	57.354	1.887		1681
1800	2.173	34.564	2.051	27.618	36.820	45.610	55.546	1.943		1780
1900	2.060	34.581	1.931	27.641	36.849	45.645	53.381	1.998		1878
2000	1.997	34.590	1.861	27.654	36.865	45.665	52.371	2.051		1977
2100	1.908	34.601	1.765	27.670	36.887	45.691	50.871	2.102		2075
2200	1.846	34.611	1.695	27.684	36.904	45.712	49.749	2.152		2173
2300	1.790	34.619	1.631	27.695	36.918	45.730	48.824	2.202		2272
2400	1.753	34.625	1.586	27.703	36.929	45.742	48.265	2.250		2370
2500	1.702	34.633	1.527	27.714	36.943	45.759	47.365	2.298		2468
2600	1.668	34.639	1.485	27.722	36.953	45.772	46.812	2.345		2566
2700	1.635	34.644	1.443	27.729	36.962	45.783	46.331	2.392		2664
2800	1.607	34.649	1.407	27.735	36.971	45.794	45.903	2.438		2762
2900	1.584	34.652	1.375	27.740	36.977	45.802	45.676	2.484		2860
3000	1.564	34.656	1.346	27.745	36.984	45.810	45.408	2.529		2958
3100	1.541	34.660	1.314	27.751	36.992	45.819	45.089	2.574		3056
3200	1.521	34.663	1.284	27.755	36.997	45.826	44.874	2.619		3154
3300	1.507	34.667	1.261	27.760	37.004	45.834	44.665	2.664		3252
3400	1.492	34.670	1.236	27.764	37.009	45.840	44.506	2.709		3350
3500	1.484	34.672	1.218	27.767	37.013	45.845	44.515	2.753		3447
3600	1.478	34.674	1.202	27.770	37.017	45.850	44.549	2.798		3545
3700	1.474	34.676	1.188	27.772	37.020	45.854	44.610	2.842		3643
3800	1.472	34.678	1.175	27.775	37.023	45.858	44.699	2.887		3740
3900	1.477	34.679	1.170	27.776	37.025	45.859	44.966	2.932		3838
4000	1.478	34.681	1.160	27.778	37.027	45.863	45.099	2.977		3935
4100	1.479	34.682	1.150	27.780	37.030	45.865	45.302	3.022		4033
4200	1.485	34.683	1.144	27.781	37.031	45.867	45.584	3.068		4130
4300	1.492	34.683	1.140	27.781	37.031	45.868	45.954	3.113		4228
4400	1.500	34.684	1.136	27.782	37.033	45.869	46.271	3.159		4325
4500	1.508	34.684	1.133	27.782	37.033	45.870	46.659	3.206		4422
4600	1.517	34.685	1.130	27.784	37.034	45.871	46.995	3.253		4519
4700	1.525	34.685	1.126	27.784	37.035	45.872	47.386	3.300		4617
4800	1.534	34.686	1.123	27.785	37.036	45.873	47.726	3.347		4714
4900	1.543	34.686	1.119	27.785	37.036	45.874	48.136	3.395		4811
5000	1.554	34.686	1.118	27.785	37.037	45.874	48.584	3.444		4908
5100	1.563	34.687	1.114	27.786	37.038	45.875	48.929	3.493		5005
5200	1.574	34.687	1.113	27.786	37.038	45.875	49.380	3.542		5102
5300	1.585	34.687	1.111	27.786	37.038	45.876	49.834	3.591		5199
5400	1.596	34.687	1.109	27.787	37.038	45.876	50.289	3.641		5296
5500	1.608	34.688	1.107	27.787	37.039	45.877	50.696	3.692		5393
5534	1.613	34.687	1.108	27.787	37.039	45.876	50.944	3.709		5426

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	12.347	33.769	6.34	104.8	3.2	0.35	1.4	0.05	12.347	25.567	34.299	42.650		1
55	12.105	33.773	6.28	103.2	3.2	0.37	1.7	0.08	12.098	25.618	34.360	42.719		55
106	10.651	33.854	6.01	95.8	5.5	0.66	7.0	0.02	10.638	25.948	34.748	43.162		106
158	9.712	34.061	5.75	89.9	14.8	0.92	12.2	0.01	9.694	26.270	35.107	43.556		158
307	8.148	34.040	4.68	70.6	31.6	1.47	20.8	0.01	8.117	26.503	35.409	43.924		309
406	6.487	33.978	3.57	51.8	50.5	2.00	28.3	0.00	6.450	26.687	35.672	44.260		408
507	5.373	33.980	2.66	37.6	69.5	2.42	34.2	0.00	5.331	26.828	35.867	44.506		510
606	4.565	34.043	1.68	23.3	90.0	2.77	39.3	0.00	4.518	26.970	36.049	44.725		610
705	4.042	34.128	0.96	13.1	107.1	2.98	42.5	0.00	3.990	27.094	36.198	44.898		710
805	3.683	34.205	0.55	7.5	120.1	3.12	44.2	0.00	3.625	27.191	36.314	45.031		811
907	3.396	34.277	0.33	4.4	132.9	3.14	45.1	0.00	3.332	27.277	36.414	45.144		914
1001	3.218	34.322	0.25	3.4	138.8	3.19	45.5	0.00	3.148	27.330	36.476	45.215		1009
1244	2.799	34.431	0.26	3.5	154.4	3.22	45.9	0.00	2.713	27.457	36.624	45.382		1255
1500	2.474	34.507	0.47	6.2	167.1	3.17	45.5	0.00	2.371	27.546	36.731	45.506		1515
1749	2.188	34.565	0.98	12.8	172.8	3.08	44.1	0.00	2.068	27.618	36.818	45.607		1768
1996	1.960	34.601	1.36	17.7	180.2	2.99	43.2	0.00	1.823	27.666	36.879	45.681		2019
2497	1.693	34.638	2.07	26.7	179.1	2.85	41.2	0.00	1.516	27.719	36.948	45.765		2529
3495	1.482	34.676	3.12	40.0	170.9	2.63	38.3	0.00	1.211	27.771	37.017	45.849		3548
3995	1.478	34.683	3.29	42.1	171.9	2.59	37.8	0.00	1.153	27.780	37.030	45.865		4050
4487	1.515	34.686	3.36	42.9	174.1	2.57	37.5	0.00	1.132	27.784	37.034	45.871		4566
4968	1.560	34.687	3.43	43.8	168.9		37.2	0.00	1.116	27.786	37.037	45.875		5061
5425	1.613	34.688	3.51	44.8	166.0	2.52	37.1	0.00	1.108	27.787	37.039	45.877		5533

MARATHON 2 STA. 52

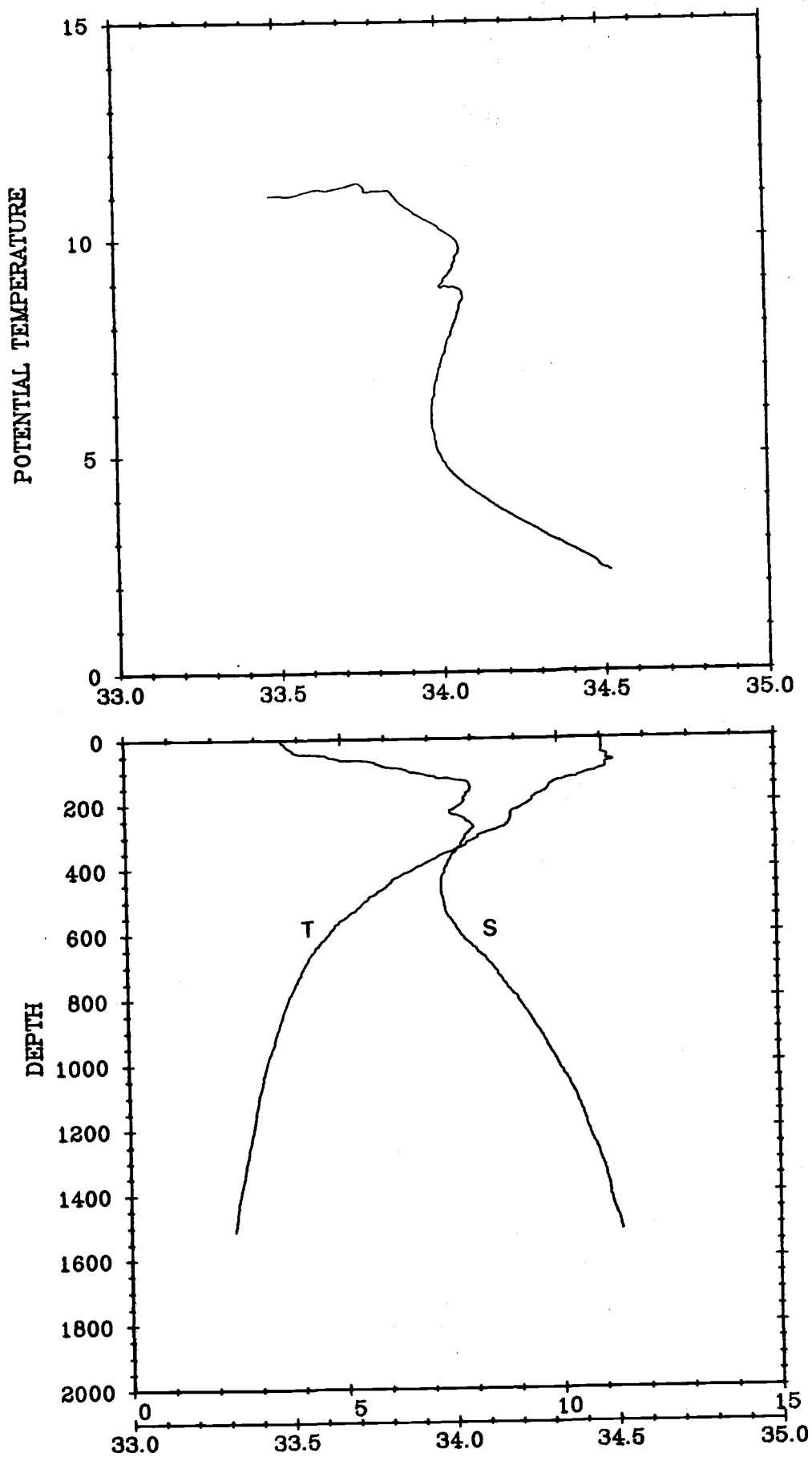


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GHT	M	DIR	KT	DEG C	DEG C	MB
39 33.3N	152 0.4W	5/20/84	1724	S157	240	22	13.3	13.3	1015.2

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	11.035	33.484	11.035	25.589	34.378	42.782	238.713	0.000	0
20	11.035	33.497	11.033	25.600	34.389	42.792	238.173	0.048	19
40	11.043	33.531	11.038	25.625	34.414	42.817	236.218	0.095	39
60	11.161	33.650	11.154	25.697	34.479	42.876	229.870	0.142	59
80	11.152	33.782	11.142	25.802	34.582	42.978	220.394	0.187	79
100	10.929	33.871	10.917	25.912	34.700	43.103	210.418	0.230	99
150	9.800	34.063	9.783	26.257	35.090	43.536	178.498	0.327	149
200	9.302	34.037	9.280	26.319	35.175	43.641	173.456	0.415	198
250	8.897	34.046	8.860	26.394	35.267	43.750	167.255	0.500	248
300	8.180	34.048	8.149	26.504	35.409	43.922	157.309	0.581	298
350	7.480	34.014	7.446	26.580	35.518	44.061	150.503	0.658	347
400	6.689	33.982	6.653	26.664	35.639	44.218	142.688	0.732	397
450	6.059	33.970	6.020	26.736	35.742	44.349	135.941	0.801	446
500	5.546	33.976	5.504	26.804	35.836	44.466	129.593	0.868	496
600	4.686	34.026	4.640	26.944	36.017	44.687	116.512	0.991	595
700	4.105	34.121	4.053	27.081	36.183	44.880	103.626	1.101	694
800	3.726	34.198	3.669	27.182	36.302	45.017	94.428	1.200	793
900	3.459	34.262	3.396	27.259	36.393	45.120	87.430	1.291	892
1000	3.210	34.321	3.141	27.330	36.477	45.215	80.967	1.375	991
1100	3.008	34.374	2.933	27.392	36.548	45.297	75.433	1.453	1090
1200	2.874	34.411	2.792	27.434	36.597	45.352	71.804	1.527	1188
1300	2.717	34.450	2.629	27.479	36.651	45.413	67.731	1.597	1287
1400	2.564	34.480	2.469	27.517	36.697	45.467	64.227	1.663	1386
1500	2.442	34.509	2.341	27.551	36.737	45.513	61.312	1.725	1484
1532	2.402	34.516	2.299	27.560	36.749	45.527	60.496	1.745	1516

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	10.883	33.431	6.59	105.3	3.6	0.52	4.0	0.07	4.36	10.883	25.575	34.371	42.781	1
43	10.848	33.466	6.56	104.8	3.2	0.53	4.0	0.08		10.843	25.609	34.406	42.818	43
102	10.854	33.878	5.90	94.5	7.6	0.62	7.3	0.02		10.842	25.930	34.722	43.128	102
136	10.083	34.040	5.70	89.8	14.2	0.85	11.5	0.02	4.04	10.067	26.191	35.013	43.447	136
169	9.700	34.067	5.73	89.5	16.8	0.94	12.4	0.01		9.681	26.277	35.115	43.564	170
251	8.897	34.037	5.55	85.2	21.7	1.13	15.1	0.00		8.870	26.385	35.258	43.741	252
301	8.127	34.048	4.67	70.4	33.1	1.48	21.2	0.00		8.096	26.512	35.420	43.935	303
402	6.238	33.971	3.53	50.9	55.6	2.09	29.6	0.00		6.202	26.714	35.711	44.310	404
501	5.217	33.984	2.60	36.6	74.7	2.50	35.1	0.00	2.56	5.176	26.849	35.896	44.542	504
599	4.523	34.047	1.71	23.7	91.0	2.79	39.6	0.00	1.41	4.477	26.978	36.059	44.737	603
698	4.061	34.129	1.03	14.1	109.0	3.00	42.5	0.00	0.66	4.009	27.092	36.196	44.895	703
797	3.708	34.201	0.60	8.1	122.6	3.12	44.5	0.00	0.10	3.651	27.186	36.307	45.022	803
890	3.462	34.262	0.38	5.1	133.0	3.19	45.2	0.00	0.11	3.399	27.259	36.392	45.119	897
985	3.221	34.318	0.36	4.8	143.4	3.20	45.6	0.00	-0.03	3.152	27.327	36.472	45.211	993
1226	2.813	34.426	0.28	3.7	160.2	3.24	46.2	0.00		2.729	27.451	36.618	45.375	1237
1516	2.406	34.517	0.50	6.6	172.0		45.6	0.00		2.303	27.560	36.749	45.527	1531

MARATHON 2 STA. 53

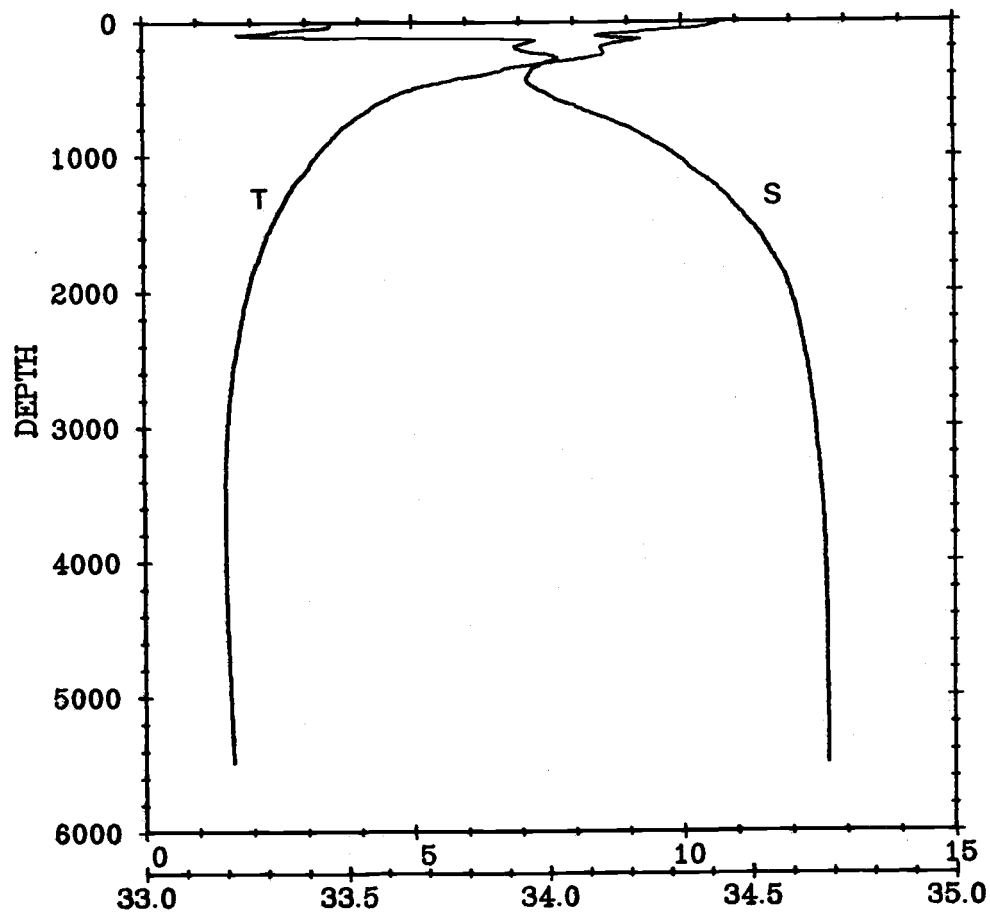
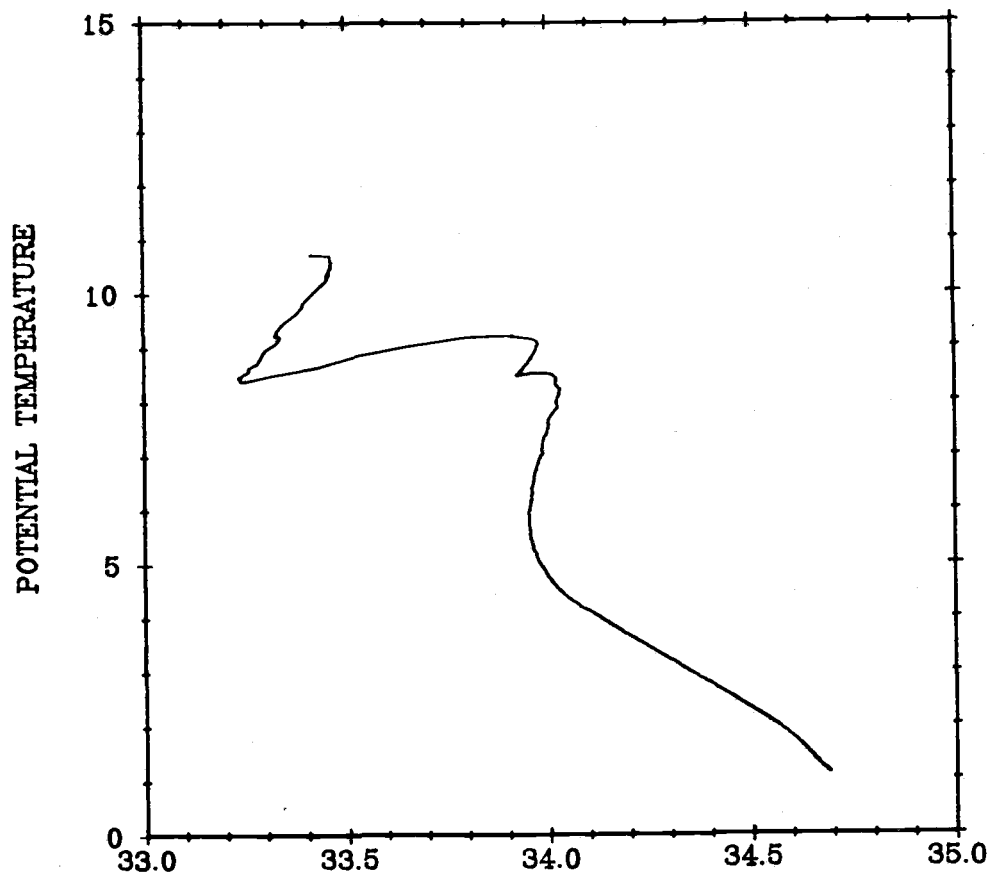


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
39 52.9N	151 59.8W	5/21/84	418	5606	270	18	12.2	11.7	1011.2

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP	DEG C				CL/TON		M
DB	DEG C	DEG C						
0	10.712	33.448	25.618	34.421	42.838	235.946	0.000	0
20	10.670	33.452	25.637	34.442	42.860	234.620	0.047	19
40	10.418	33.456	25.677	34.492	42.920	231.301	0.094	39
60	9.758	33.386	9.751	25.734	34.578	43.034	0.139	59
80	9.103	33.316	9.095	25.784	34.658	43.142	0.184	79
100	8.516	33.253	8.506	25.827	34.728	43.237	0.228	99
150	8.977	33.964	8.961	25.313	35.184	43.664	0.326	149
200	8.507	33.925	8.486	26.357	35.249	43.749	0.411	198
250	8.506	34.007	8.480	26.422	35.313	43.812	0.495	248
300	7.688	34.003	7.659	26.541	35.469	44.003	0.574	298
350	6.772	33.967	5.740	26.640	35.612	44.187	0.649	347
400	6.304	33.957	6.269	26.694	35.689	44.285	0.720	397
450	5.606	33.953	5.569	26.779	35.807	44.435	0.788	446
500	5.051	33.979	5.011	26.865	35.920	44.574	0.851	495
600	4.442	34.044	4.397	26.984	36.070	44.751	0.969	595
700	4.047	34.127	3.995	27.092	36.197	44.897	1.076	694
800	3.679	34.209	3.622	27.195	36.318	45.035	1.174	793
900	3.435	34.265	3.372	27.264	36.399	45.127	1.254	892
1000	3.202	34.319	3.133	27.329	36.476	45.215	1.348	991
1100	3.026	34.358	2.950	27.377	36.533	45.281	1.427	1090
1200	2.809	34.405	2.728	27.435	36.602	45.360	1.501	1188
1300	2.649	34.442	2.561	27.479	36.654	45.420	1.571	1287
1400	2.521	34.471	2.427	27.513	36.696	45.468	1.637	1386
1500	2.397	34.499	2.296	27.547	36.735	45.514	1.700	1484
1600	2.268	34.527	2.161	27.580	36.776	45.561	1.760	1583
1700	2.182	34.547	2.062	27.603	36.804	45.594	1.817	1681
1800	2.101	34.565	1.980	27.625	36.830	45.624	1.873	1780
1900	1.996	34.585	1.863	27.650	36.861	45.660	1.926	1878
2000	1.931	34.596	1.796	27.664	36.879	45.682	1.978	1977
2100	1.874	34.607	1.731	27.678	36.896	45.702	2.029	2075
2200	1.824	34.615	1.673	27.688	36.910	45.719	2.078	2173
2300	1.776	34.622	1.618	27.698	36.923	45.735	2.127	2272
2400	1.734	34.628	1.568	27.707	36.934	45.748	2.175	2370
2500	1.690	34.635	1.515	27.716	36.946	45.763	2.223	2468
2600	1.651	34.641	1.468	27.724	36.957	45.775	2.269	2566
2700	1.621	34.645	1.430	27.730	36.965	45.786	2.316	2664
2800	1.590	34.650	1.390	27.737	36.974	45.797	2.362	2762
2900	1.565	34.655	1.356	27.744	36.982	45.807	2.407	2860
3000	1.544	34.658	1.325	27.748	36.988	45.815	2.452	2958
3100	1.531	34.661	1.304	27.752	36.994	45.821	2.497	3056
3200	1.518	34.664	1.281	27.756	36.999	45.828	2.542	3154
3300	1.503	34.667	1.257	27.760	37.004	45.834	2.586	3252
3400	1.495	34.670	1.239	27.764	37.009	45.840	2.631	3350
3500	1.489	34.672	1.223	27.767	37.012	45.844	2.676	3447
3600	1.484	34.674	1.208	27.769	37.016	45.849	2.720	3545
3700	1.482	34.676	1.195	27.772	37.019	45.852	2.765	3643
3800	1.493	34.678	1.186	27.774	37.022	45.855	2.810	3740
3900	1.485	34.679	1.177	27.775	37.024	45.858	2.855	3838
4000	1.496	34.680	1.167	27.777	37.026	45.860	2.900	3935
4100	1.490	34.681	1.160	27.778	37.027	45.862	2.945	4033
4200	1.495	34.682	1.154	27.779	37.029	45.864	2.991	4130
4300	1.503	34.683	1.151	27.780	37.030	45.866	3.037	4228
4400	1.510	34.684	1.146	27.781	37.031	45.867	3.083	4325
4500	1.518	34.684	1.142	27.782	37.032	45.868	3.130	4422
4600	1.525	34.684	1.138	27.782	37.032	45.869	3.177	4519
4700	1.535	34.685	1.135	27.783	37.034	45.870	3.224	4617
4800	1.545	34.685	1.133	27.783	37.034	45.870	3.272	4714
4900	1.556	34.685	1.132	27.783	37.034	45.871	3.320	4811
5000	1.565	34.686	1.128	27.784	37.035	45.872	3.369	4908
5100	1.575	34.686	1.126	27.785	37.036	45.872	3.418	5005
5200	1.585	34.686	1.123	27.785	37.036	45.873	3.467	5102
5300	1.596	34.686	1.121	27.785	37.036	45.873	3.517	5199
5400	1.609	34.686	1.121	27.785	37.036	45.873	3.568	5296
5500	1.621	34.687	1.120	27.786	37.037	45.874	3.618	5393
5596	1.633	34.687	1.119	27.786	37.037	45.875	3.668	5486

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP	SALINITY											
M	DEG C		ML/L	UM/L	UM/L	UM/L	UM/L	TUS/LN	DEG C				DB
1	10.814	33.491	6.51	103.9	1.7	0.52	3.6	0.07	10.814	25.614	34.432	42.844	1
55	10.685	33.538	6.52	103.8	1.7	0.52	3.6	0.07	10.678	25.694	34.497	42.914	55
105	9.222	33.408	6.49	99.9	3.9	0.75	6.6	0.32	9.211	25.838	34.706	43.183	105
156	8.978	33.973	5.76	88.5	17.2	1.02	13.2	0.01	8.961	26.320	35.190	43.670	156
200	8.522	33.932	5.94	90.3	17.5	1.00	13.0	0.01	8.501	26.360	35.251	43.750	201
304	7.944	34.020	4.71	70.5	32.6	1.49	21.0	0.01	7.814	26.532	35.453	43.980	306
406	6.186	33.958	3.53	50.8	52.6	2.03	28.8	0.01	6.150	26.710	35.710	44.311	408
505	5.154	33.973	2.58	36.3	72.5	2.43	34.5	0.00	5.113	26.848	35.898	44.547	508
604	4.404	34.051	1.60	22.1	94.0	2.77	39.5	0.00	4.358	26.994	36.081	44.764	608
703	4.044	34.128	1.03	14.1	107.1	2.97	42.1	0.00	3.992	27.093	36.198	44.898	708
805	3.651	34.217	0.59	8.0	121.9	3.06	43.8	0.00	3.593	27.204	36.328	45.046	811
906	3.368	34.282	0.36	4.8	132.8	3.13	44.8	0.00	3.304	27.284	36.422	45.153	913
1005	3.122	34.339	0.28	3.7	141.2	3.18	45.2	0.00	3.052	27.353	36.503	45.246	1013
1256	2.697	34.432	0.25	3.3	158.1	3.20	45.6	0.00	2.611	27.466	36.639	45.403	1268
1506	2.379	34.506	0.41	5.4	170.0	3.16	45.5	0.00	2.277	27.553	36.743	45.523	1521
1755	2.121	34.563	0.90	11.8	177.3	3.08	44.0	0.00	2.002	27.621	36.825	45.618	1774
2006	1.938	34.599	1.34	17.4	183.2	2.99	43.0	0.00	1.800	27.666	36.880	45.683	2029
2505	1.684	34.639	2.07	26.7	179.9	2.86	41.1	0.00	1.506	27.720	36.950	45.768	2537
3003	1.541	34.662	2.67	34.3	174.5	2.73	39.3	0.00	1.319	27.752	36.992	45.819	3045
3504	1.478	34.676	3.04	38.9	172.1	2.65	38.2	0.00	1.206	27.771	37.017	45.850	3557
4002	1.488	34.683	3.22	41.2	174.8	2.60	37.8	0.00	1.162	27.780	37.028	45.863	4067
4498	1.523	34.686	3.33	42.6	172.8	2.58	37.6	0.00	1.138	27.784	37.034	45.870	4577
4994	1.572	34.687	3.38	43.2	167.0		37.4	0.00	1.124	27.785	37.036	45.873	5088
5492	1.634	34.688			159.7	2.56	37.0	0.01	1.119	27.786	37.038	45.875	5602

MARATHON 2 STA. 54

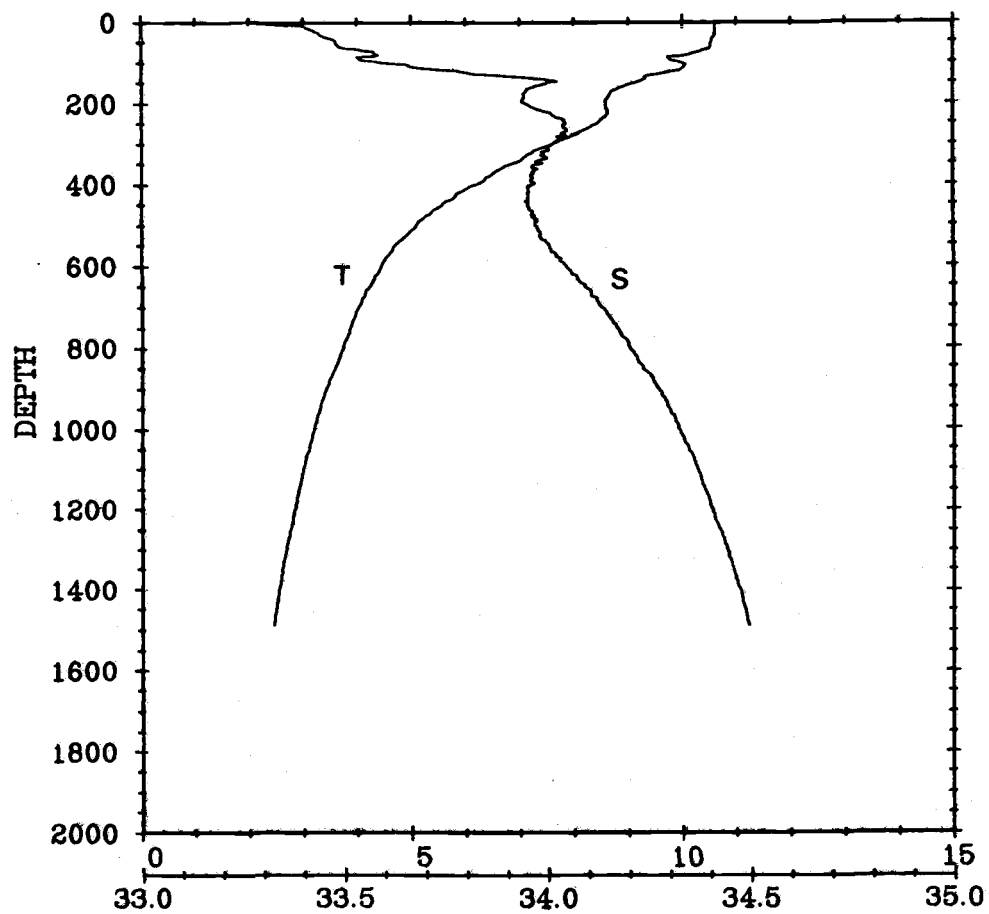
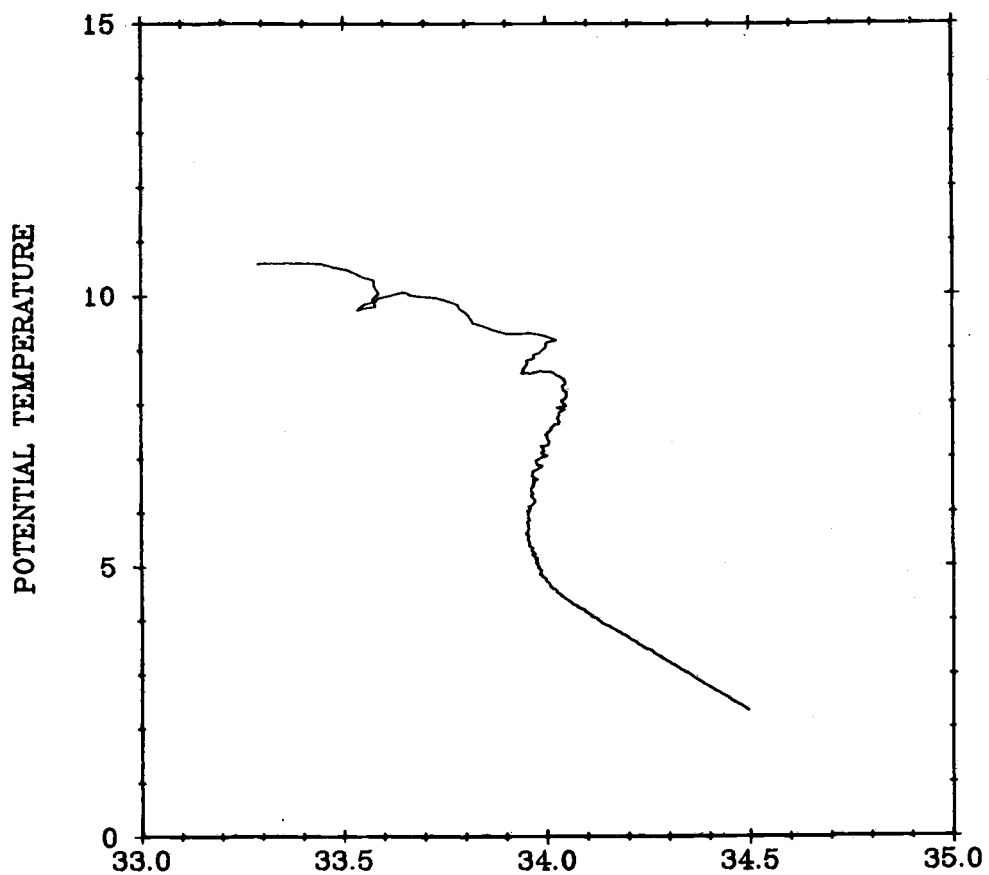


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
40 15.2N	152 0.3W	5/21/84	1118	4885	280	35	10.6	8.9	1011.2

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	10.605	33.338	10.605	25.551	34.360	42.783	242.318	0.000	0
20	10.600	33.415	10.598	25.613	34.421	42.843	236.938	0.048	19
40	10.556	33.460	10.551	25.656	34.465	42.888	233.282	0.095	39
60	10.487	33.497	10.480	25.697	34.509	42.934	229.806	0.141	59
80	10.080	33.564	10.071	25.819	34.647	43.088	219.582	0.186	79
100	9.934	33.598	9.923	25.871	34.705	43.151	214.097	0.229	99
150	9.105	33.991	9.089	26.314	35.179	43.653	172.865	0.326	149
200	8.580	33.947	8.559	26.363	35.251	43.748	169.041	0.412	198
250	8.417	34.041	8.391	26.462	35.357	43.859	160.500	0.494	248
300	7.638	34.019	7.609	26.561	35.491	44.027	151.598	0.572	297
350	6.891	33.978	6.859	26.633	35.599	44.168	145.012	0.646	347
400	6.229	33.962	6.194	26.708	35.706	44.305	138.100	0.717	397
450	5.601	33.952	5.564	26.778	35.807	44.435	131.488	0.784	446
500	5.116	33.973	5.076	26.852	35.905	44.555	124.558	0.848	496
600	4.465	34.040	4.420	26.979	36.063	44.744	112.896	0.967	595
700	4.037	34.127	3.986	27.093	36.199	44.899	102.408	1.075	694
800	3.734	34.198	3.677	27.181	36.301	45.015	94.517	1.173	793
900	3.437	34.265	3.374	27.264	36.399	45.127	86.962	1.264	892
1000	3.195	34.319	3.126	27.330	36.477	45.217	80.948	1.348	991
1100	2.994	34.364	2.919	27.385	36.542	45.292	76.018	1.426	1089
1200	2.834	34.401	2.752	27.429	36.595	45.352	72.095	1.500	1188
1300	2.676	34.439	2.588	27.474	36.648	45.413	68.081	1.570	1287
1400	2.548	34.469	2.454	27.509	36.690	45.461	64.957	1.637	1386
1500	2.437	34.494	2.336	27.539	36.726	45.503	62.359	1.701	1484
1502	2.428	34.496	2.327	27.542	36.729	45.506	62.119	1.702	1486

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	10.494	33.432	6.61	104.7	3.7	0.56	4.1	0.08	10.494	25.644	34.456	42.881		1
52	10.468	33.443	6.58	104.2	3.4	0.59	4.1	0.08	10.462	25.658	34.471	42.898		52
92	10.036	33.621	6.34	99.5	3.3	0.66	5.4	0.44	10.025	25.871	34.700	43.142		92
162	8.702	33.954	5.89	89.9	19.7	1.05	13.5	0.01	8.685	26.349	35.231	43.723		163
194	8.574	33.956	5.90	89.8	19.9	1.04	13.5	0.01	8.554	26.371	35.259	43.756		195
246	8.311	34.042	4.96	75.1	29.8	1.39	19.1	0.01	8.286	26.479	35.379	43.885		247
300	7.482	34.006	4.45	66.1	38.3	1.67	23.1	0.01	7.453	26.573	35.510	44.053		302
427	5.830	33.953	3.20	45.7	58.8	2.19	30.7	0.01	5.794	26.751	35.768	44.286		430
511	4.908	33.985	2.31	32.3	80.3	2.60	36.4	0.00	4.868	26.885	35.948	44.608		514
776	3.740	34.195	0.80	10.9	119.5	3.07	43.5	0.00	3.684	27.178	36.297	45.011		782
902	3.405	34.271	0.46	6.2	131.2	3.14	44.9	0.00	3.341	27.271	36.408	45.137		909
986	3.211	34.316	0.33	4.4	142.4	3.18	45.3	0.00	3.142	27.326	36.472	45.211		994
1173	2.873	34.393	0.28	3.7	156.0	3.21	46.0	0.00	2.792	27.419	36.583	45.338		1184
1465	2.453	34.490	0.36	4.7		0.00		0.00	2.353	27.534	36.720	45.496		1480

MARATHON 2 STA. 55

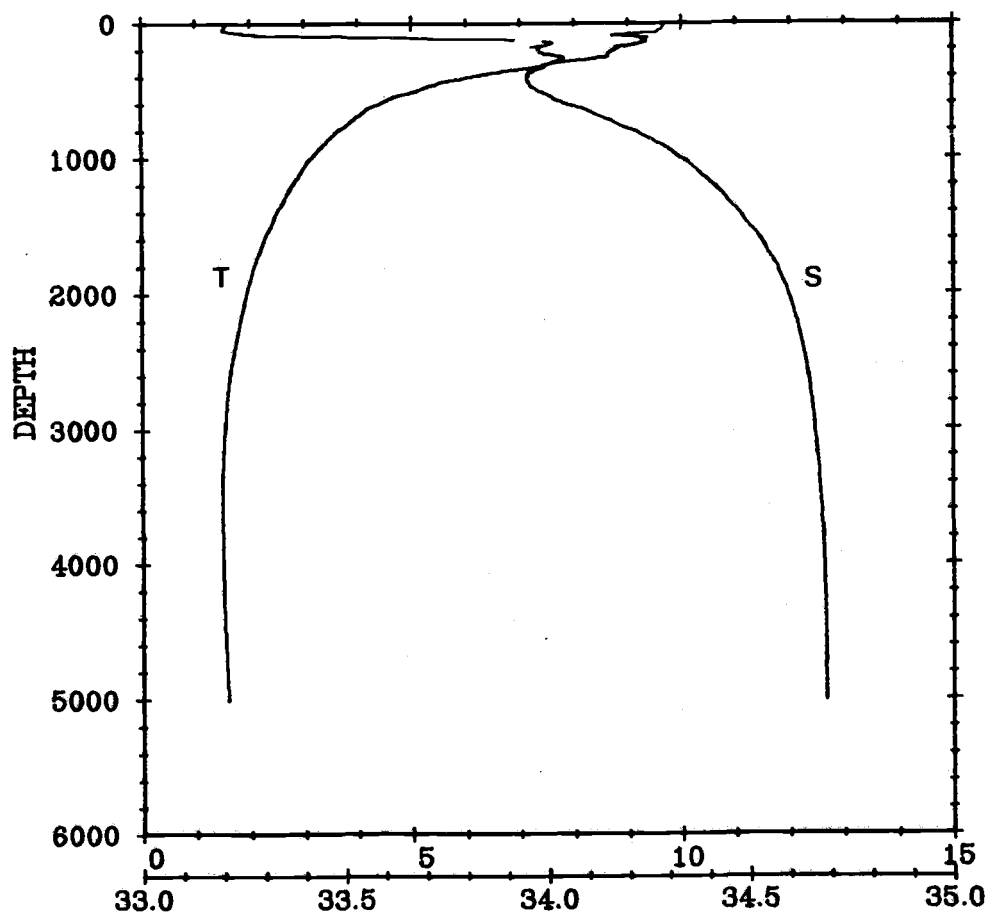
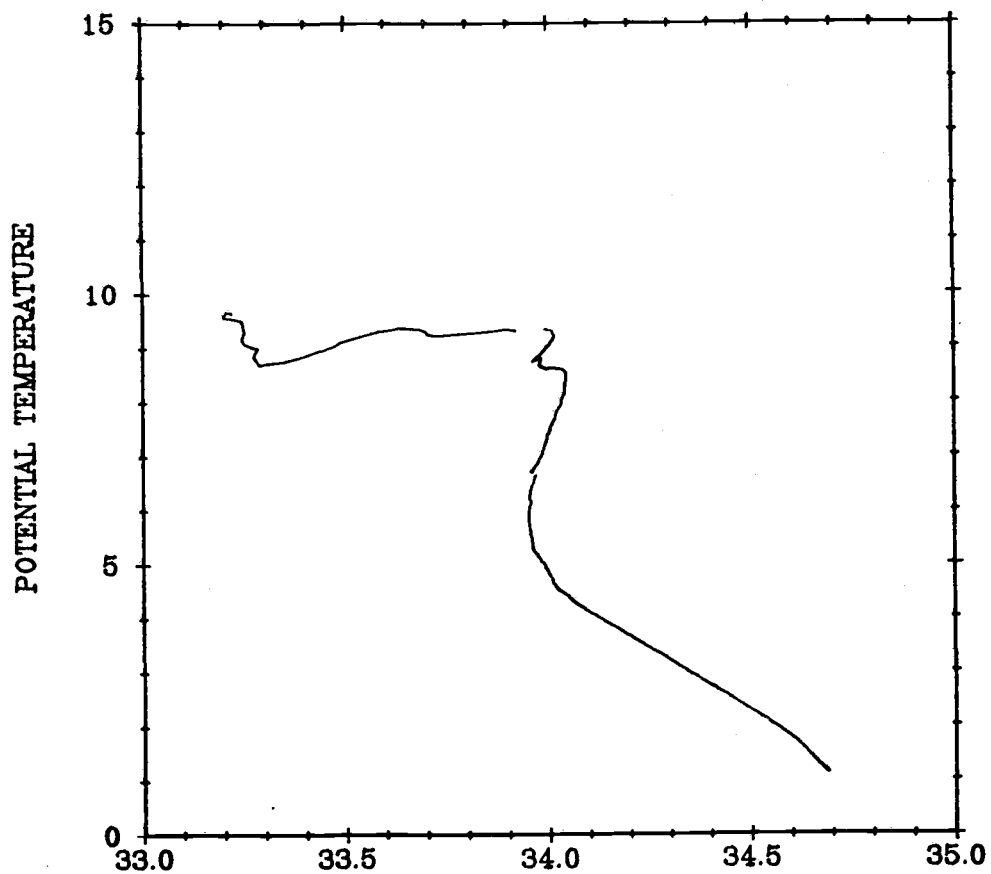


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
40 37.4N	151 59.0W	5/22/84	736	4993	300	18	8.9	7.2	1022.0

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M	
PRESS DB	TEMP DEG C								
0	9.660	33.210	9.660	25.511	34.462	42.924	236.640	0.000	0
20	9.664	33.207	9.662	25.608	34.459	42.921	237.295	0.047	19
40	9.633	33.204	9.629	25.512	34.464	42.927	237.403	0.095	39
60	9.558	33.210	9.551	25.629	34.484	42.951	236.155	0.142	59
80	9.155	33.261	9.146	25.734	34.606	43.088	226.523	0.188	79
100	9.039	33.460	9.028	25.908	34.783	43.267	210.339	0.232	99
150	9.232	34.011	9.216	26.309	35.168	43.637	173.350	0.328	149
200	8.742	33.979	8.721	26.363	35.244	43.733	169.110	0.414	198
250	8.573	34.034	8.547	26.433	35.320	43.817	163.360	0.497	248
300	7.637	34.010	7.608	26.554	35.484	44.021	152.251	0.576	297
350	6.888	33.971	6.856	26.628	35.594	44.164	145.491	0.650	347
400	6.113	33.952	6.078	26.715	35.718	44.323	137.347	0.721	397
450	5.494	33.957	5.457	26.795	35.829	44.462	129.794	0.788	446
500	5.136	33.978	5.096	26.854	35.905	44.555	124.426	0.851	496
600	4.433	34.048	4.388	26.988	36.074	44.756	111.932	0.969	595
700	4.006	34.134	3.955	27.102	36.209	44.910	101.537	1.076	694
800	3.666	34.210	3.609	27.197	36.321	45.038	92.865	1.173	793
900	3.385	34.275	3.322	27.276	36.414	45.145	85.641	1.263	892
1000	3.144	34.326	3.075	27.340	36.490	45.232	79.864	1.345	991
1100	2.945	34.371	2.870	27.395	36.555	45.306	74.955	1.423	1089
1200	2.780	34.408	2.699	27.439	36.608	45.368	70.974	1.496	1188
1300	2.639	34.441	2.551	27.479	36.655	45.421	67.517	1.565	1287
1400	2.497	34.471	2.403	27.515	36.699	45.472	64.232	1.631	1386
1500	2.388	34.496	2.287	27.545	36.734	45.513	61.652	1.694	1484
1600	2.261	34.525	2.154	27.579	36.775	45.561	58.536	1.754	1583
1700	2.179	34.544	2.065	27.601	36.802	45.592	56.642	1.811	1681
1800	2.080	34.565	1.959	27.626	36.833	45.628	54.373	1.867	1780
1900	2.013	34.578	1.885	27.643	36.853	45.652	53.038	1.921	1878
2000	1.940	34.592	1.805	27.660	36.875	45.677	51.534	1.973	1977
2100	1.883	34.604	1.740	27.674	36.892	45.698	50.346	2.024	2075
2200	1.830	34.613	1.679	27.686	36.908	45.716	49.404	2.074	2173
2300	1.775	34.622	1.617	27.698	36.923	45.735	48.417	2.123	2271
2400	1.728	34.629	1.562	27.708	36.935	45.750	47.656	2.171	2370
2500	1.678	34.636	1.504	27.718	36.948	45.766	46.837	2.218	2468
2600	1.638	34.642	1.456	27.726	36.959	45.779	46.202	2.264	2566
2700	1.605	34.647	1.414	27.733	36.969	45.791	45.716	2.310	2664
2800	1.580	34.652	1.380	27.740	36.977	45.801	45.323	2.356	2762
2900	1.559	34.655	1.350	27.744	36.983	45.808	45.118	2.401	2860
3000	1.541	34.659	1.323	27.749	36.990	45.816	44.873	2.446	2958
3100	1.521	34.663	1.294	27.754	36.996	45.825	44.592	2.491	3056
3200	1.508	34.665	1.272	27.758	37.001	45.830	44.545	2.535	3154
3300	1.498	34.669	1.252	27.762	37.006	45.837	44.392	2.580	3251
3400	1.488	34.670	1.222	27.764	37.010	45.841	44.447	2.624	3349
3500	1.480	34.674	1.214	27.769	37.015	45.848	44.313	2.669	3447
3600	1.477	34.676	1.201	27.771	37.018	45.851	44.392	2.713	3545
3700	1.477	34.677	1.191	27.773	37.020	45.854	44.585	2.758	3642
3800	1.478	34.679	1.181	27.775	37.023	45.857	44.721	2.802	3740
3900	1.480	34.680	1.172	27.776	37.025	45.859	44.942	2.847	3837
4000	1.482	34.681	1.164	27.778	37.027	45.862	45.162	2.892	3935
4100	1.487	34.682	1.157	27.779	37.029	45.864	45.420	2.937	4032
4200	1.493	34.683	1.152	27.780	37.030	45.865	45.714	2.983	4130
4300	1.499	34.683	1.147	27.781	37.031	45.866	46.069	3.029	4227
4400	1.508	34.684	1.144	27.782	37.032	45.868	46.403	3.075	4324
4500	1.517	34.685	1.141	27.783	37.033	45.869	46.740	3.122	4422
4600	1.528	34.685	1.140	27.783	37.033	45.869	47.182	3.169	4519
4700	1.539	34.686	1.139	27.784	37.034	45.870	47.557	3.216	4616
4800	1.551	34.686	1.139	27.784	37.034	45.870	48.021	3.264	4713
4900	1.562	34.686	1.138	27.784	37.034	45.870	48.471	3.312	4810
5000	1.574	34.686	1.137	27.784	37.034	45.870	48.940	3.361	4907
5100	1.586	34.686	1.137	27.784	37.034	45.871	49.411	3.410	5005
5108	1.587	34.686	1.136	27.784	37.034	45.871	49.450	3.414	5012

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
1	9.789	33.273	6.65	103.6	6.0	0.71	5.9	0.09	9.789	25.639	34.483	42.939	1
56	9.759	33.266	6.66	103.7	6.2	0.73	6.0	0.09	9.753	25.639	34.485	42.943	56
107	9.010	33.514	6.28	96.3	7.1	0.86	9.4	0.02	8.999	25.955	34.830	43.315	107
157	8.970	33.972	5.80	89.1	17.9	1.03	13.4	0.02	8.953	26.321	35.191	43.671	157
206	8.609	33.966	5.88	89.6	19.2	1.03	13.5	0.02	8.587	26.373	35.260	43.755	207
307	7.496	34.005	4.50	66.9	37.3	1.63	22.8	0.01	7.466	26.570	35.507	44.049	309
406	5.914	33.954	3.36	48.1	57.9	2.16	30.4	0.01	5.879	26.741	35.754	44.368	408
506	4.970	33.985	2.38	33.3	77.8	2.56	35.9	0.01	4.930	26.878	35.938	44.595	509
606	4.356	34.062	1.53	21.1	96.2	2.84	40.1	0.00	4.310	27.008	36.097	44.783	610
706	3.988	34.140	0.98	13.4	110.0	2.99	42.4	0.00	3.936	27.109	36.216	44.913	711
805	3.652	34.215	0.61	8.3	122.4	3.08	44.0	0.00	3.594	27.202	36.326	45.044	811
903	3.397	34.274	0.43	5.8	132.2	3.13	44.8	0.00	3.333	27.274	36.411	45.141	910
1000	3.187	34.319	0.39	5.2	140.5	3.20	45.1	0.00	3.117	27.331	36.478	45.218	1009
1240	2.726	34.423	0.29	3.8	159.4	3.22	45.8	0.00	2.641	27.456	36.628	45.390	1252
1495	2.402	34.495	0.42	5.5	170.8	3.19	45.8	0.00	2.300	27.543	36.731	45.510	1510
1749	2.131	34.556	0.84	11.0	177.3	3.10	44.6	0.00	2.012	27.615	36.818	45.611	1768
1988	1.959	34.593	1.23	15.0	180.6	3.02	43.5	0.00	1.822	27.659	36.873	45.675	2011
2231	1.816	34.618	1.62	21.0	181.5	2.95	42.6	0.00	1.660	27.692	36.914	45.723	2258
2473	1.687	34.638	2.02	26.1	182.2	2.89	41.4	0.00	1.512	27.719	36.948	45.766	2504
2984	1.540	34.662	2.64	33.9	177.7	2.75	39.7	0.00	1.320	27.752	36.992	45.819	3026
3527	1.479	34.678	3.07	39.3	175.4	2.64	38.4	0.00	1.205	27.772	37.019	45.852	3581
4010	1.484	34.683	3.19	40.8	177.5		38.0	0.00	1.157	27.780	37.029	45.864	4076
4498	1.525	34.686	3.27	41.8	179.3		38.4	0.00	1.140	27.783	37.034	45.870	4577
5011	1.587	34.687	3.32	42.4	178.6	2.61	37.8	0.01	1.137	27.784	37.035	45.871	5106

MARATHON 2 STA. 56

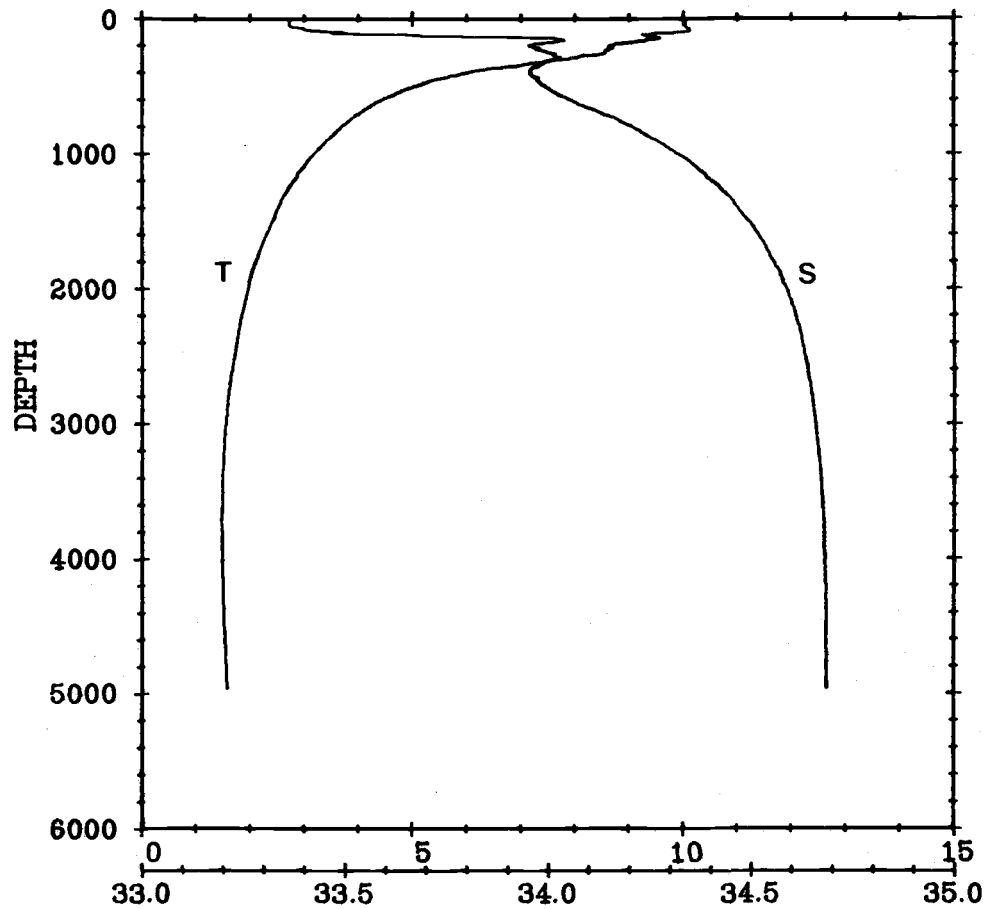
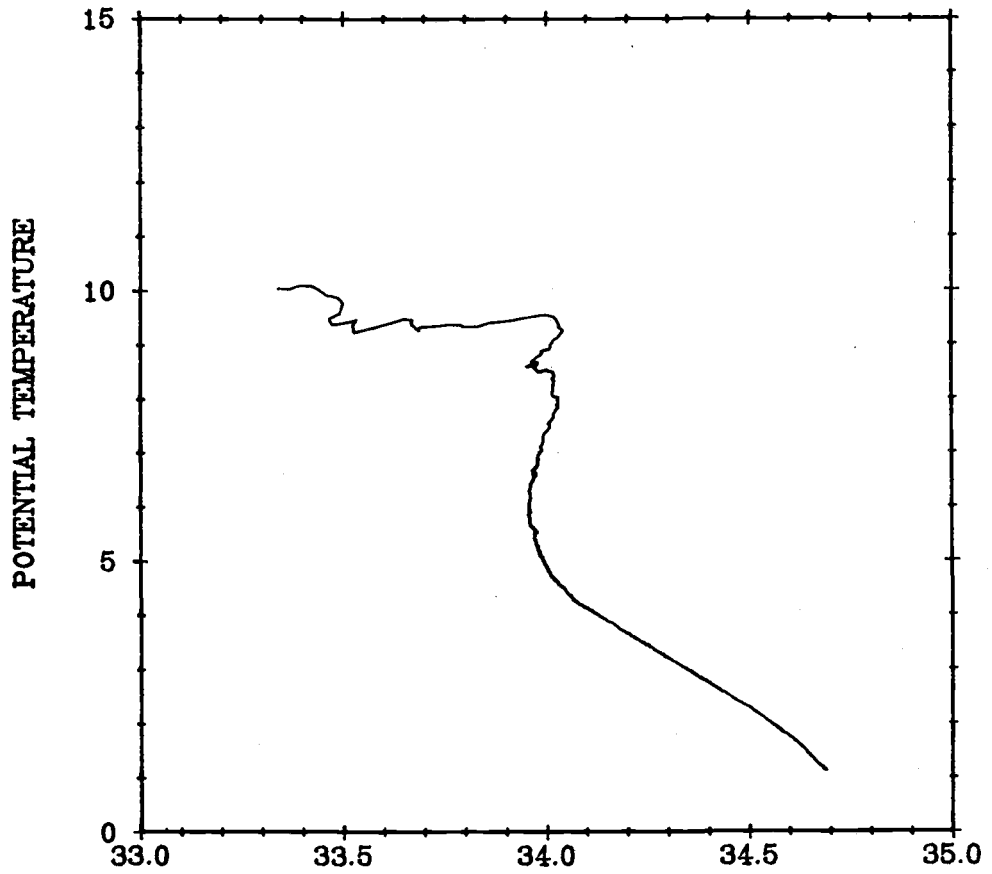


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
41 6.8N	151 59.5W	5/22/84	1424	4959	300	15	9.3	6.1	1022.4

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	10.036	33.358	10.036	25.664	34.497	42.942	211.586	0.000
20	10.034	33.363	10.032	25.669	34.502	42.946	231.570	0.046
40	10.039	33.364	10.034	25.669	34.502	42.947	231.962	0.093
60	10.051	33.369	10.044	25.672	34.504	42.948	232.171	0.139
80	10.105	33.402	10.096	25.688	34.513	42.960	230.985	0.185
100	9.856	33.462	9.845	25.777	34.617	43.068	222.920	0.231
150	9.448	33.975	9.431	26.246	35.095	43.557	179.399	0.331
200	8.677	33.960	8.656	26.358	35.242	43.735	169.536	0.419
250	8.554	33.996	8.528	26.406	35.295	43.793	165.889	0.502
300	7.834	34.022	7.804	26.535	35.456	43.984	154.184	0.582
350	6.934	33.978	6.902	26.627	35.591	44.159	145.526	0.657
400	6.030	33.956	5.995	26.728	35.736	44.344	135.987	0.728
450	5.463	33.972	5.426	26.811	35.846	44.480	128.297	0.794
500	5.083	33.989	5.043	26.869	35.922	44.574	122.971	0.857
600	4.450	34.052	4.405	26.990	36.075	44.756	111.829	0.974
700	4.042	34.129	3.991	27.094	36.199	44.899	102.316	1.081
800	3.694	34.204	3.637	27.190	36.312	45.025	93.623	1.179
900	3.436	34.263	3.373	27.262	36.397	45.125	87.099	1.270
1000	3.202	34.315	3.133	27.326	36.473	45.212	81.323	1.354
1100	2.992	34.363	2.917	27.384	36.542	45.291	75.070	1.432
1200	2.828	34.398	2.746	27.427	36.594	45.351	72.250	1.507
1300	2.659	34.436	2.571	27.473	36.648	45.414	68.111	1.577
1400	2.531	34.464	2.437	27.507	36.689	45.461	65.133	1.643
1500	2.435	34.489	2.334	27.535	36.722	45.499	62.705	1.707
1600	2.319	34.515	2.211	27.566	36.760	45.542	59.941	1.769
1700	2.212	34.535	2.098	27.591	36.791	45.579	57.688	1.827
1800	2.123	34.552	2.002	27.613	36.817	45.610	55.833	1.884
1900	2.032	34.571	1.904	27.636	36.845	45.643	53.778	1.939
2000	1.969	34.584	1.833	27.651	36.865	45.666	52.470	1.992
2100	1.910	34.596	1.767	27.666	36.883	45.687	51.261	2.044
2200	1.852	34.608	1.701	27.681	36.901	45.708	50.042	2.095
2300	1.800	34.619	1.641	27.693	36.917	45.727	49.023	2.144
2400	1.754	34.625	1.587	27.703	36.929	45.742	48.278	2.193
2500	1.714	34.631	1.539	27.711	36.940	45.756	47.665	2.241
2600	1.670	34.638	1.487	27.721	36.952	45.771	46.911	2.298
2700	1.634	34.644	1.442	27.729	36.963	45.783	46.318	2.335
2800	1.601	34.649	1.401	27.736	36.972	45.795	45.823	2.391
2900	1.576	34.653	1.367	27.741	36.979	45.804	45.495	2.426
3000	1.552	34.657	1.334	27.747	36.987	45.813	45.169	2.472
3100	1.531	34.661	1.304	27.752	36.994	45.821	44.876	2.517
3200	1.515	34.664	1.279	27.756	36.999	45.828	44.716	2.562
3300	1.498	34.668	1.252	27.761	37.006	45.836	44.463	2.606
3400	1.490	34.670	1.234	27.764	37.009	45.841	44.477	2.651
3500	1.481	34.673	1.215	27.768	37.014	45.846	44.399	2.695
3600	1.478	34.675	1.202	27.771	37.017	45.850	44.478	2.740
3700	1.475	34.677	1.189	27.773	37.021	45.854	44.554	2.784
3800	1.475	34.679	1.178	27.775	37.024	45.858	44.674	2.829
3900	1.478	34.680	1.170	27.777	37.025	45.860	44.911	2.873
4000	1.480	34.681	1.162	27.778	37.027	45.862	45.131	2.918
4100	1.485	34.682	1.156	27.779	37.029	45.864	45.398	2.964
4200	1.491	34.683	1.150	27.781	37.030	45.866	45.681	3.009
4300	1.498	34.684	1.146	27.781	37.031	45.867	45.982	3.055
4400	1.507	34.684	1.143	27.782	37.032	45.868	46.387	3.101
4500	1.516	34.685	1.140	27.783	37.033	45.869	46.723	3.148
4600	1.528	34.685	1.140	27.783	37.033	45.869	47.182	3.195
4700	1.540	34.685	1.140	27.783	37.033	45.869	47.644	3.242
4800	1.551	34.685	1.139	27.784	37.034	45.870	48.021	3.290
4900	1.563	34.686	1.139	27.784	37.034	45.870	48.488	3.338
5000	1.575	34.686	1.138	27.784	37.034	45.870	48.957	3.387
5062	1.583	34.687	1.138	27.785	37.035	45.871	49.191	3.417

NISKIN BOTTLE DATA									
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUS/LN
1	9.927	33.331	6.62	103.5	4.7	0.67	5.3	0.09	9.927
55	9.981	33.340	6.62	103.6	4.2	0.67	5.2	0.09	9.975
105	9.741	33.389	6.29	98.1	2.8	0.72	6.9	0.36	9.729
154	9.132	34.023	5.76	88.9	18.0	1.02	13.5	0.01	9.115
204	8.630	33.969	5.89	89.8	18.7	1.03	13.5	0.01	8.609
254	8.312	34.029	5.08	76.9	27.7	1.34	18.5	0.01	8.286
304	7.736	34.020	4.62	69.0	35.0	1.55	22.0	0.00	7.706
405	6.137	33.960	3.54	50.9	53.4	2.05	29.1	0.00	6.101
505	5.194	33.987	2.44	34.3	73.9	2.49	35.4	0.00	5.153
604	4.448	34.055	1.65	22.8	92.5	2.77	39.4	0.00	4.402
705	4.024	34.136	1.08	14.8	107.4	2.93	41.9	0.00	3.972
804	3.666	34.214	0.52	8.4	121.2	3.05	43.7	0.00	3.608
905	3.393	34.275	0.40	5.4	131.6	3.12	44.5	0.00	3.329
1005	3.158	34.329	0.34	4.6	140.1	3.17	45.1	0.00	3.088
1255	2.718	34.425	0.30	4.0	157.7	3.19	45.6	0.00	2.632
1505	2.386	34.504	0.46	6.0	171.0	3.14	45.4	0.00	2.284
1754	2.113	34.556	0.85	11.1	178.2	3.06	44.5	0.00	1.994
2005	1.928	34.595	1.28	16.6	182.1	3.00	43.3	0.00	1.790
2504	1.694	34.638	1.99	25.7	180.1	2.86	41.3	0.00	1.516
3002	1.537	34.662	2.64	33.9	177.9	2.71	39.6	0.00	1.315
3499	1.475	34.676	3.07	39.3	176.3	2.62	38.3	0.00	1.204
3998	1.482	34.683	3.22	41.2	177.6		37.8	0.00	1.156
4494	1.524	34.686	3.30	42.2	179.9		37.8	0.00	1.140
4966	1.583	34.687	3.30	42.2	180.0	2.57	37.7	0.00	1.139

MARATHON 2 STA. 57

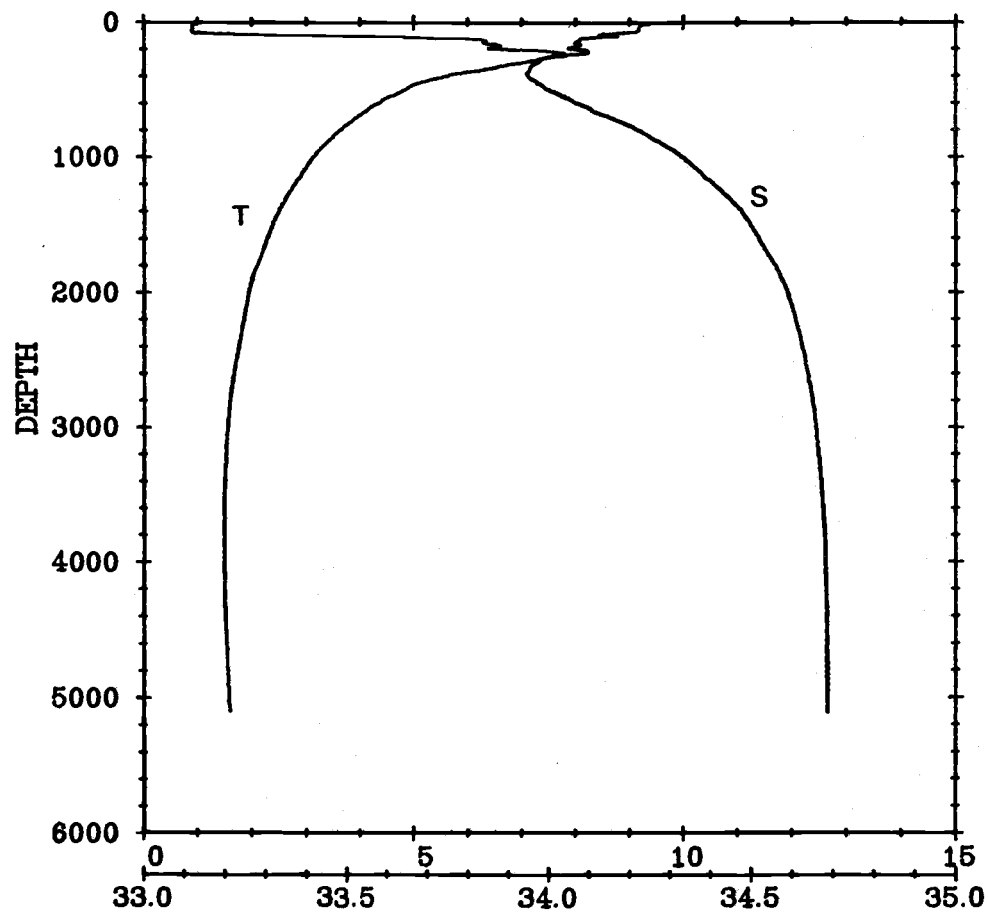
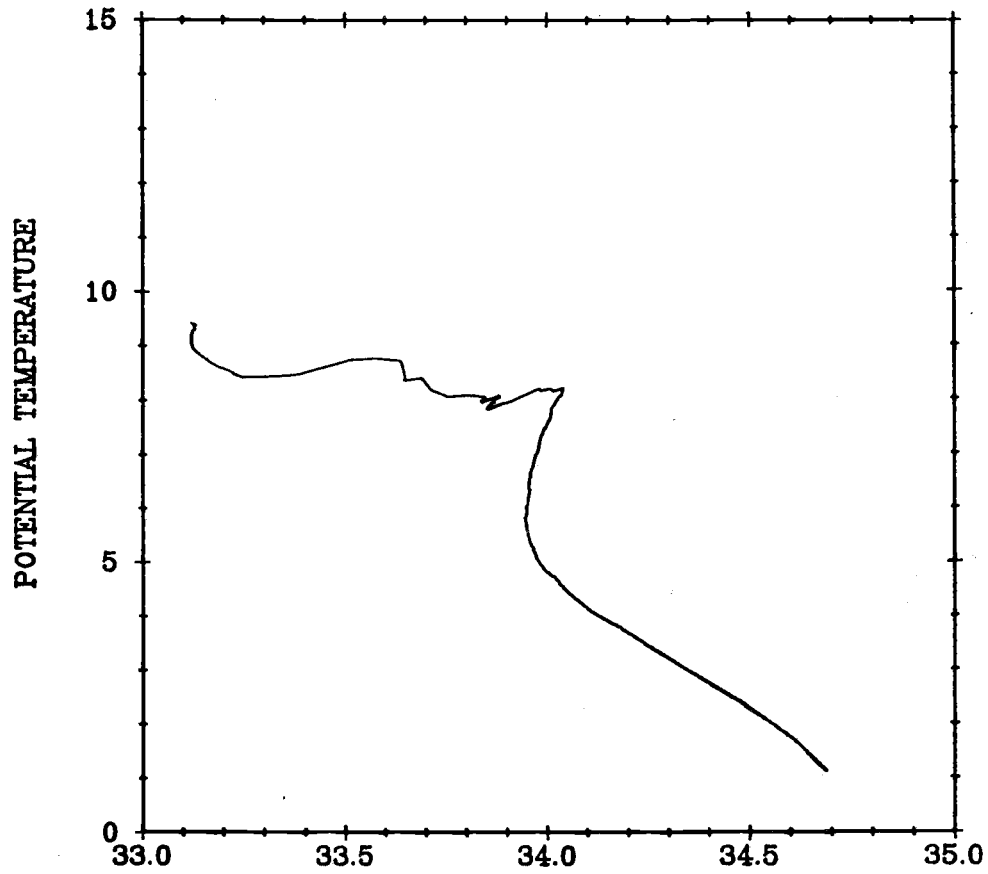


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
41 59.1N	152 3.0W	5/23/84	706	5103	190	10	8.3	7.8	1022.0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	9.384	33.126	9.384	25.590	34.454	42.928	238.622	0.000	0
20	9.255	33.124	9.253	25.610	34.479	42.959	237.162	0.048	19
40	9.170	33.120	9.166	25.620	34.494	42.977	236.523	0.095	39
60	9.152	33.120	9.146	25.624	34.498	42.982	236.600	0.142	59
80	8.856	33.151	8.848	25.695	34.582	43.078	230.193	0.189	79
100	8.544	33.401	8.534	25.939	34.836	43.342	207.337	0.233	99
150	8.008	33.842	7.993	26.366	35.281	43.803	167.620	0.326	149
200	7.954	33.882	7.934	26.406	35.323	43.847	164.687	0.410	198
250	7.807	34.010	7.792	26.529	35.451	43.980	153.883	0.489	248
300	7.056	33.972	7.028	26.605	35.563	44.125	146.991	0.564	297
350	6.377	33.953	6.346	26.681	35.672	44.265	140.041	0.636	347
400	5.624	33.949	5.591	26.773	35.800	44.427	131.416	0.704	397
450	5.131	33.972	5.095	26.849	35.901	44.551	124.283	0.768	446
500	4.854	33.999	4.815	26.903	35.968	44.630	119.513	0.829	496
600	4.368	34.068	4.323	27.011	36.100	44.785	109.696	0.943	595
700	3.978	34.143	3.927	27.112	36.220	44.923	100.552	1.049	694
800	3.659	34.216	3.602	27.203	36.327	45.044	92.340	1.145	793
900	3.375	34.276	3.312	27.278	36.415	45.147	85.456	1.234	892
1000	3.148	34.327	3.079	27.341	36.490	45.232	79.934	1.317	990
1100	2.966	34.367	2.891	27.390	36.549	45.299	75.484	1.394	1099
1200	2.799	34.405	2.718	27.435	36.603	45.362	71.408	1.468	1198
1300	2.644	34.440	2.555	27.477	36.653	45.420	67.648	1.537	1297
1400	2.505	34.473	2.411	27.516	36.699	45.472	64.175	1.603	1395
1500	2.385	34.497	2.284	27.546	36.735	45.515	61.544	1.666	1494
1600	2.291	34.516	2.184	27.569	36.764	45.548	59.544	1.727	1593
1700	2.207	34.535	2.093	27.592	36.791	45.580	57.629	1.785	1691
1800	2.113	34.555	1.992	27.615	36.821	45.614	55.495	1.842	1780
1900	2.015	34.573	1.887	27.639	36.849	45.647	53.428	1.896	1878
2000	1.951	34.587	1.815	27.655	36.869	45.671	52.033	1.949	1976
2100	1.904	34.597	1.761	27.667	36.884	45.689	51.114	2.000	2075
2200	1.862	34.606	1.711	27.678	36.898	45.705	50.312	2.051	2173
2300	1.813	34.615	1.654	27.690	36.912	45.722	49.405	2.101	2271
2400	1.765	34.623	1.598	27.701	36.926	45.739	48.564	2.150	2369
2500	1.721	34.630	1.546	27.710	36.938	45.754	47.828	2.198	2468
2600	1.678	34.636	1.495	27.719	36.950	45.768	47.160	2.246	2565
2700	1.641	34.642	1.449	27.727	36.960	45.781	46.555	2.293	2664
2800	1.605	34.648	1.405	27.734	36.970	45.793	45.949	2.339	2762
2900	1.576	34.653	1.367	27.741	36.979	45.804	45.495	2.385	2860
3000	1.556	34.657	1.338	27.747	36.986	45.812	45.225	2.430	2958
3100	1.538	34.660	1.311	27.751	36.992	45.819	45.047	2.475	3056
3200	1.522	34.664	1.285	27.756	36.998	45.827	44.816	2.520	3153
3300	1.510	34.666	1.264	27.759	37.003	45.832	44.779	2.565	3251
3400	1.500	34.669	1.244	27.763	37.007	45.838	44.694	2.609	3349
3500	1.492	34.671	1.226	27.766	37.011	45.843	44.705	2.654	3447
3600	1.487	34.674	1.211	27.769	37.016	45.848	44.684	2.699	3544
3700	1.482	34.676	1.196	27.772	37.019	45.852	44.732	2.744	3642
3800	1.479	34.678	1.182	27.774	37.022	45.856	44.807	2.788	3739
3900	1.480	34.679	1.172	27.775	37.024	45.859	45.013	2.833	3837
4000	1.483	34.681	1.165	27.778	37.027	45.862	45.178	2.878	3934
4100	1.487	34.681	1.157	27.778	37.028	45.863	45.500	2.924	4032
4200	1.493	34.682	1.152	27.780	37.029	45.865	45.784	2.969	4129
4300	1.499	34.683	1.147	27.781	37.031	45.866	46.069	3.015	4227
4400	1.507	34.684	1.143	27.782	37.032	45.868	46.387	3.061	4324
4500	1.516	34.684	1.140	27.782	37.032	45.868	46.794	3.108	4421
4600	1.527	34.685	1.139	27.783	37.033	45.869	47.165	3.155	4519
4700	1.539	34.685	1.139	27.783	37.033	45.869	47.627	3.202	4616
4800	1.550	34.685	1.138	27.783	37.033	45.870	48.074	3.250	4713
4900	1.561	34.685	1.137	27.783	37.033	45.870	48.523	3.299	4810
5000	1.572	34.686	1.135	27.784	37.034	45.871	48.904	3.347	4907
5100	1.584	34.686	1.135	27.784	37.035	45.871	49.375	3.396	5004
5200	1.597	34.686	1.135	27.784	37.034	45.871	49.867	3.445	5101
5204	1.598	34.686	1.135	27.784	37.034	45.871	49.895	3.448	5105

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SI03 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
1	9.320	33.131	6.78	104.5	10.5	0.84	7.4	0.10		9.320	25.504	34.471	42.948	1
49	9.165	33.134	6.79	104.3	10.4	0.84	7.5	0.10		9.160	25.632	34.506	42.989	49
88	8.630	33.134	6.78	102.8	11.4	0.90	8.4	0.15		8.621	25.716	34.614	43.119	88
112	8.934	33.579	6.23	95.4	9.5	0.91	10.0	0.03		8.922	26.018	34.896	43.382	112
152	8.018	33.842	6.08	91.4	19.0	1.05	13.6	0.01		8.003	26.364	35.279	43.801	152
219	8.166	33.972	5.53	83.4	24.7	1.21	16.5	0.01		8.144	26.445	35.352	43.966	220
294	7.273	33.986	4.54	67.1	39.1	1.65	23.2	0.00		7.245	26.586	35.534	44.086	296
395	5.720	33.949	3.25	46.3	61.4	2.22	31.2	0.01		5.687	26.761	35.783	44.406	397
500	4.835	34.001	2.26	31.5	82.8	2.61	36.8	0.00		4.795	26.906	35.972	44.635	503
598	4.376	34.068	1.55	21.4	97.7	2.82	40.1	0.00		4.331	27.010	36.099	44.783	602
696	3.958	34.150	1.05	14.3	112.7	2.95	42.2	0.00		3.907	27.119	36.228	44.932	701
793	3.681	34.214	0.74	10.0	123.1	3.04	43.7	0.00		3.624	27.198	36.321	45.038	799
899	3.382	34.278	0.42	5.7	135.3	3.15	44.8	0.00		3.319	27.279	36.417	45.147	906
998	3.179	34.323	0.32	4.3	144.8	3.18	45.4	0.00		3.109	27.335	36.483	45.223	1007
1245	2.730	34.425	0.27	3.6	161.4	3.20	45.8	0.00		2.645	27.458	36.629	45.391	1257
1491	2.377	34.501	0.45	5.9	171.4	3.16	45.6	0.00		2.276	27.550	36.740	45.519	1506
1744	2.121	34.556	0.85	11.1	177.8	3.08	44.6	0.00		2.002	27.616	36.820	45.613	1763
1996	1.932	34.594	1.29	16.8	183.0	3.01	43.5	0.00		1.795	27.662	36.877	45.680	2019
2492	1.692	34.637	2.00	25.8	183.1	2.87	41.5	0.00		1.515	27.718	36.948	45.764	2524
2991	1.537	34.662	2.66	34.2	178.3	2.73	39.6	0.00		1.316	27.752	36.992	45.820	3033
3483	1.481	34.676	3.06	39.2	175.3	2.63	38.5	0.00		1.211	27.771	37.017	45.849	3536
3960	1.480	34.684	3.22	41.2	176.5		37.9	0.00		1.159	27.781	37.030	45.865	4025
4428	1.518	34.686	3.33	42.6	179.1		37.8	0.00		1.142	27.783	37.033	45.869	4506
5094	1.596	34.687	3.34	42.7	180.0	2.61	37.7	0.02		1.135	27.785	37.035	45.871	5192

MARATHON 2 STA. 58

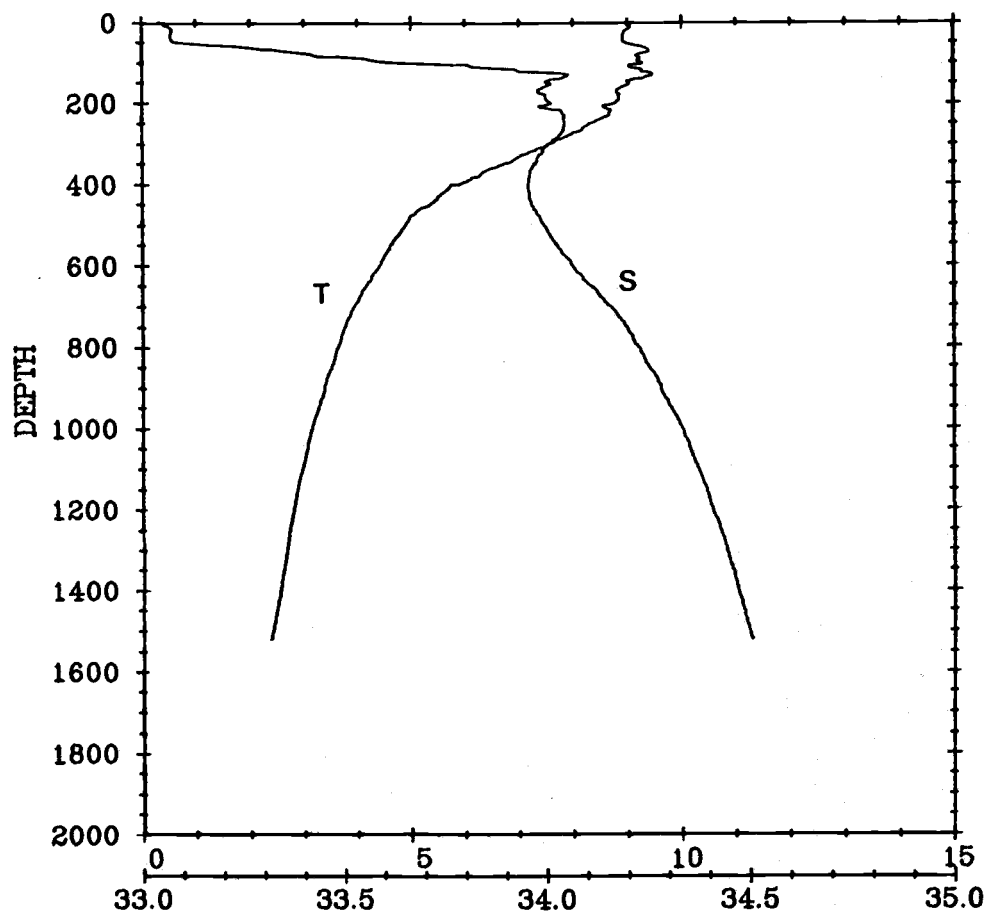
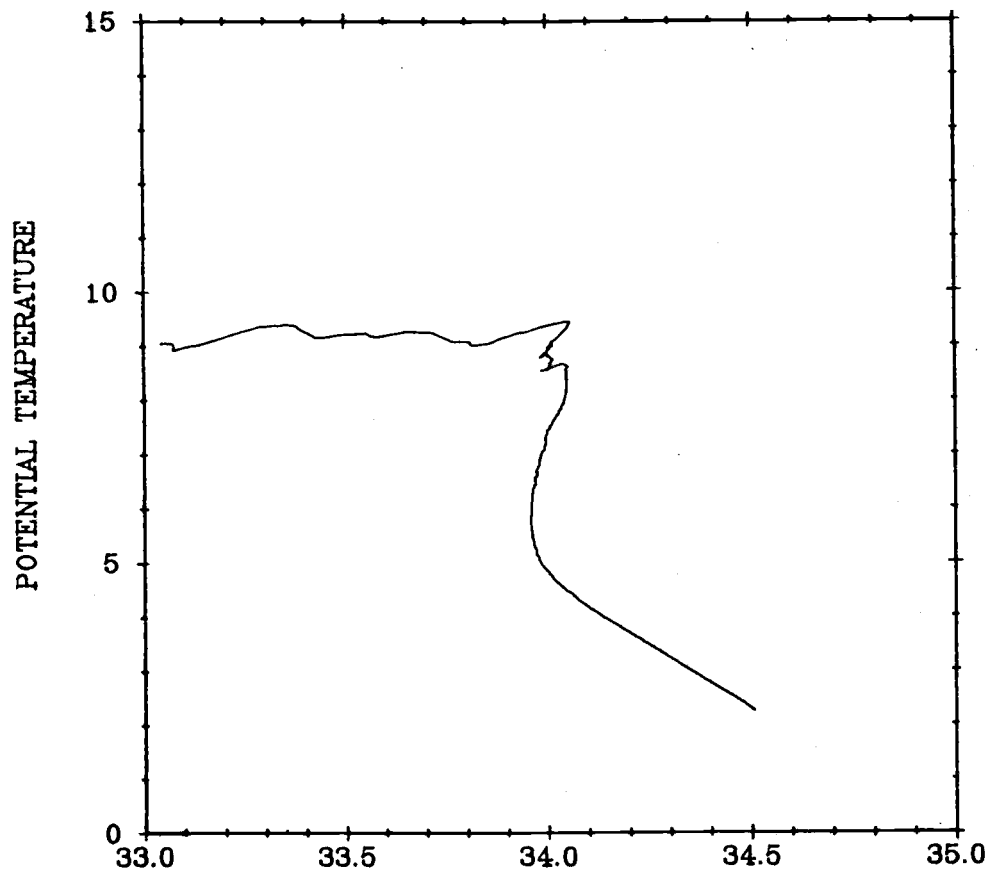


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
41 38.9N	151 59.7W	5/23/84	1254	5090	150	16	7.2	6.1	1017.3

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	9.046	33.054	9.046	25.588	34.468	42.957	238.870	0.000	0
20	8.978	33.071	8.976	25.612	34.495	42.986	236.936	0.048	19
40	8.928	33.078	8.924	25.625	34.511	43.004	236.012	0.095	39
60	9.220	33.226	9.214	25.695	34.566	43.046	229.759	0.141	59
80	9.244	33.427	9.235	25.849	34.716	43.192	215.559	0.186	79
100	9.174	33.674	9.163	26.054	34.920	43.396	196.518	0.227	99
150	9.023	34.008	9.007	26.341	35.208	43.686	170.344	0.319	149
200	8.739	34.005	8.718	26.384	35.264	43.754	167.137	0.403	198
250	8.336	34.045	8.310	26.478	35.376	43.882	158.999	0.485	248
300	7.596	34.010	7.567	26.560	35.492	44.030	151.669	0.562	297
350	6.750	33.974	6.718	26.649	35.621	44.197	143.409	0.536	347
400	5.909	33.957	5.875	26.744	35.758	44.371	134.377	0.706	397
450	5.374	33.965	5.337	26.816	35.855	44.494	127.731	0.771	446
500	4.911	33.993	4.872	26.891	35.954	44.614	120.630	0.833	496
550	4.429	34.062	4.384	27.000	36.086	44.768	110.843	0.949	595
600	3.963	34.150	3.912	27.119	36.228	44.931	99.852	1.054	694
650	3.647	34.220	3.590	27.207	36.331	45.049	91.909	1.150	793
700	3.385	34.277	3.322	27.278	36.416	45.146	85.493	1.239	892
750	3.150	34.329	3.081	27.342	36.492	45.233	79.708	1.322	990
800	2.974	34.368	2.899	27.390	36.548	45.298	75.499	1.399	1089
850	2.810	34.404	2.729	27.434	36.601	45.359	71.605	1.473	1188
900	2.668	34.438	2.580	27.474	36.648	45.413	68.065	1.543	1287
950	2.547	34.467	2.453	27.508	36.689	45.460	65.093	1.609	1385
1000	2.412	34.493	2.311	27.540	36.729	45.507	62.147	1.673	1484
1050	2.357	34.504	2.254	27.554	36.745	45.526	60.892	1.696	1521

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
3	9.115	33.063	6.78	103.9	11.5	0.90	7.8	0.11	9.115	25.584	34.460	42.947	3
52	9.195	33.159	6.73	103.4	9.4	0.88	7.5	0.14	9.189	25.647	34.519	43.001	52
101	9.232	33.711	6.06	93.5	9.6	0.96	10.3	0.02	9.221	26.074	34.936	43.409	101
142	9.176	34.035	5.79	89.4	17.8	1.06	13.1	0.01	9.161	26.337	35.197	43.668	142
163	8.789	33.983	5.86	89.7	18.4	1.04	13.2	0.01	8.772	26.358	35.236	43.724	164
203	8.614	34.012	5.53	84.3	22.5	1.13	15.3	0.01	8.593	26.408	35.294	43.789	204
245	8.348	34.046	4.98	75.5	28.8	1.37	18.9	0.00	8.323	26.476	35.374	43.879	246
297	7.503	34.002	4.59	68.2	36.2	1.60	22.3	0.00	7.474	26.566	35.503	44.045	299
395	5.928	33.959	3.42	49.0	57.3	2.14	30.0	0.00	5.894	26.743	35.756	44.368	397
492	4.893	33.994	2.30	32.1	77.3	2.58	36.2	0.00	4.854	26.894	35.957	44.618	495
590	4.444	34.058	1.63	22.5	93.7	2.79	39.4	0.00	4.399	26.995	36.080	44.761	594
687	3.980	34.147	0.98	13.4	110.0	2.99	42.1	0.00	3.930	27.115	36.222	44.925	692
788	3.651	34.219	0.64	8.7	122.3	3.08	43.6	0.00	3.595	27.206	36.330	45.048	794
878	3.405	34.273	0.43	5.8	132.1	3.15	44.6	0.00	3.343	27.273	36.409	45.139	885
984	3.162	34.326	0.34	4.6	141.4	3.18	45.2	0.00	3.094	27.338	36.487	45.228	992
1216	2.770	34.415	0.26	3.5	155.1		45.7	0.00	2.687	27.446	36.615	45.375	1227
1521	2.360	34.503	0.46	6.0	170.9		45.5	0.00	2.257	27.553	36.744	45.524	1537

MARATHON 2 STA. 59

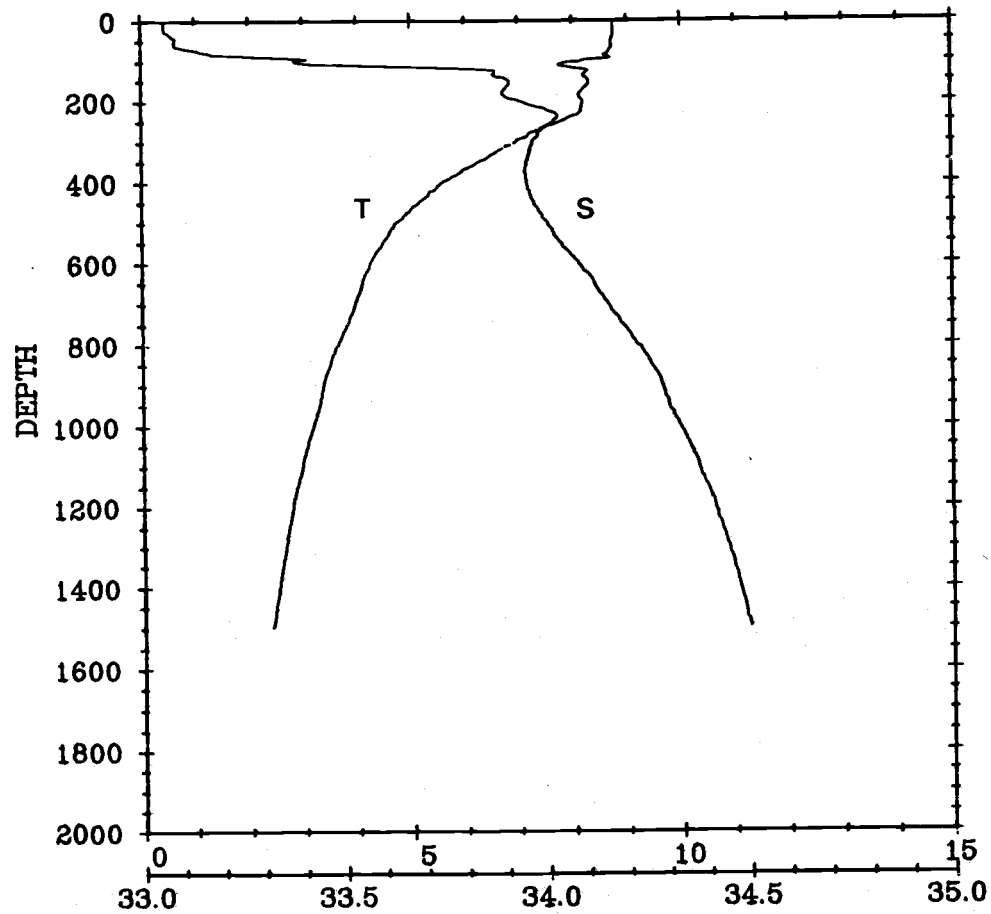
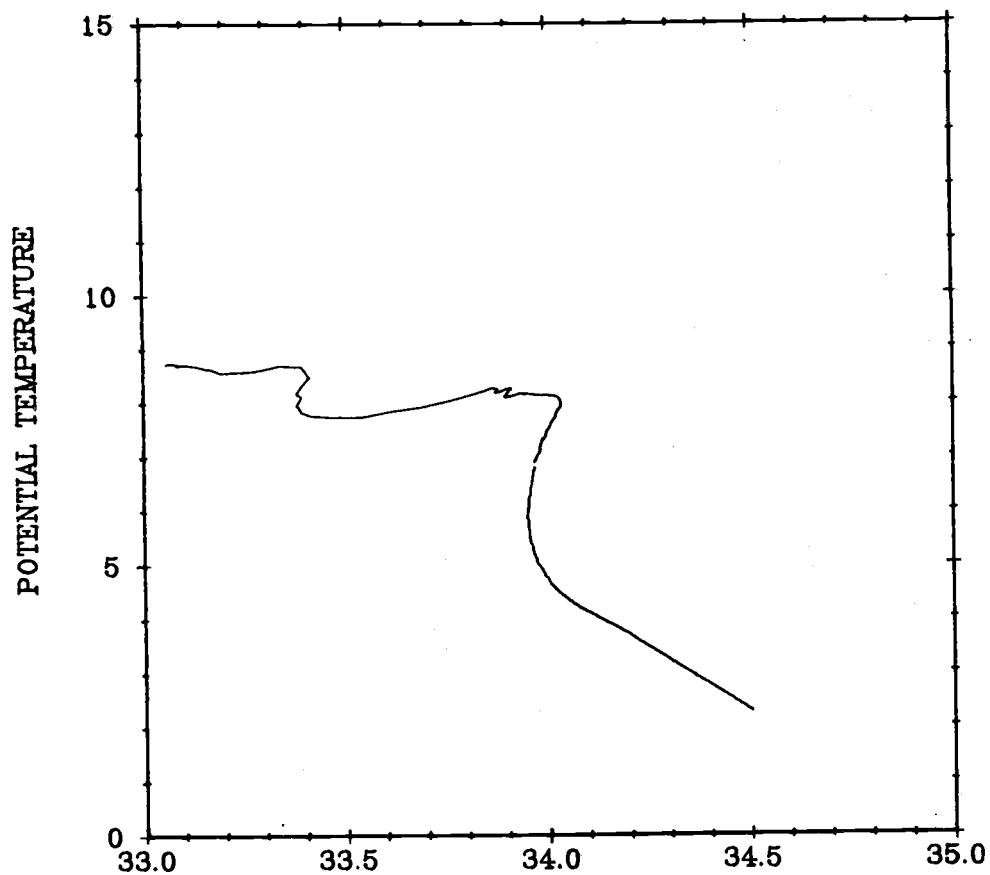


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
42 27.6N	151 59.5W	5/24/84	948	5111	290	16	9.4	8.9	1010.8

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON			M
0	8.746	33.057	8.746	25.637	34.530	43.031	234.215	0.000		0
20	8.749	33.059	8.747	25.638	34.531	43.032	234.444	0.047		19
40	8.741	33.077	8.737	25.654	34.547	43.049	233.322	0.094		39
60	8.715	33.090	8.709	25.668	34.563	43.065	232.306	0.140		59
80	8.643	33.176	8.635	25.747	34.643	43.148	225.185	0.186		79
100	8.213	33.388	8.203	25.978	34.891	43.411	203.507	0.229		99
150	8.278	33.904	8.263	26.374	35.276	43.786	166.911	0.321		149
200	8.171	33.935	8.151	26.415	35.322	43.836	163.888	0.404		198
250	7.788	34.018	7.763	26.538	35.461	43.990	153.017	0.483		248
300	6.967	33.970	6.939	26.616	35.578	44.144	145.921	0.558		297
350	6.279	33.953	6.248	26.694	35.689	44.286	138.771	0.629		347
400	5.616	33.953	5.583	26.777	35.804	44.432	131.020	0.697		397
450	5.166	33.969	5.130	26.843	35.893	44.541	124.925	0.761		446
500	4.747	34.001	4.709	26.916	35.987	44.654	118.115	0.821		496
600	4.251	34.076	4.207	27.030	36.125	44.815	107.770	0.934		595
700	3.965	34.148	3.914	27.117	36.226	44.929	100.034	1.038		694
800	3.642	34.219	3.585	27.207	36.331	45.050	91.928	1.134		793
900	3.359	34.281	3.296	27.284	36.422	45.154	84.908	1.223		892
1000	3.168	34.324	3.099	27.336	36.485	45.226	80.278	1.305		990
1100	2.954	34.371	2.879	27.394	36.554	45.305	75.055	1.383		1089
1200	2.773	34.413	2.692	27.444	36.613	45.373	70.527	1.456		1188
1300	2.638	34.442	2.550	27.479	36.656	45.422	67.432	1.525		1287
1400	2.507	34.471	2.413	27.514	36.697	45.471	64.345	1.591		1385
1500	2.393	34.495	2.292	27.544	36.734	45.513	61.709	1.654		1484
1514	2.374	34.500	2.272	27.549	36.740	45.519	61.265	1.662		1498

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
2	8.744	33.060	6.82	103.7	13.1	0.95	8.5	0.11		8.744	25.539	34.532	43.034	2
49	8.748	33.080	6.83	103.9	12.5	0.94	8.5	0.11		8.743	25.655	34.548	43.049	49
101	8.618	33.275	6.59	100.0	9.0	0.92	8.7	0.37		8.608	25.828	34.724	43.229	101
132	8.163	33.839	6.05	91.2	18.6	1.09	13.6	0.02		8.150	26.340	35.248	43.764	132
167	8.288	33.911	6.01	90.9	18.7	1.06	13.5	0.01		8.271	26.378	35.280	43.790	168
197	8.093	33.889	6.03	90.8	19.4	1.09	13.7	0.01		8.073	26.391	35.301	43.820	198
248	7.823	34.023	4.80	71.9	33.6	1.53	21.1	0.01		7.798	26.536	35.458	43.986	249
293	7.031	33.973	4.49	56.0	40.1		23.8	0.01		7.004	26.609	35.568	44.131	295
393	5.610	33.955	3.13	44.5	62.6	2.27	31.9	0.01		5.577	26.779	35.807	44.434	395
492	4.794	33.996	2.22	30.9	80.4	2.62	36.6	0.00		4.756	26.907	35.975	44.640	495
595	4.230	34.081	1.43	19.7	100.6	2.86	40.4	0.00		4.186	27.036	36.131	44.823	599
682	3.955	34.150	1.02	13.9	111.2	2.97	42.1	0.00		3.905	27.120	36.229	44.932	687
806	3.540	34.241	0.55	7.4	126.7	3.10	44.0	0.00		3.483	27.234	36.363	45.086	813
899	3.340	34.288	0.37	5.0	134.9	3.14	44.7	0.00		3.277	27.291	36.431	45.163	907
999	3.126	34.336	0.30	4.0	144.2	3.17	45.2	0.00		3.057	27.350	36.500	45.243	1008
1221	2.720	34.427	0.27	3.6	159.0		45.6	0.00		2.637	27.460	36.631	45.394	1233
1495	2.375	34.501	0.44	5.8	172.5		45.3	0.00		2.274	27.550	36.740	45.520	1510

MARATHON 2 STA. 60

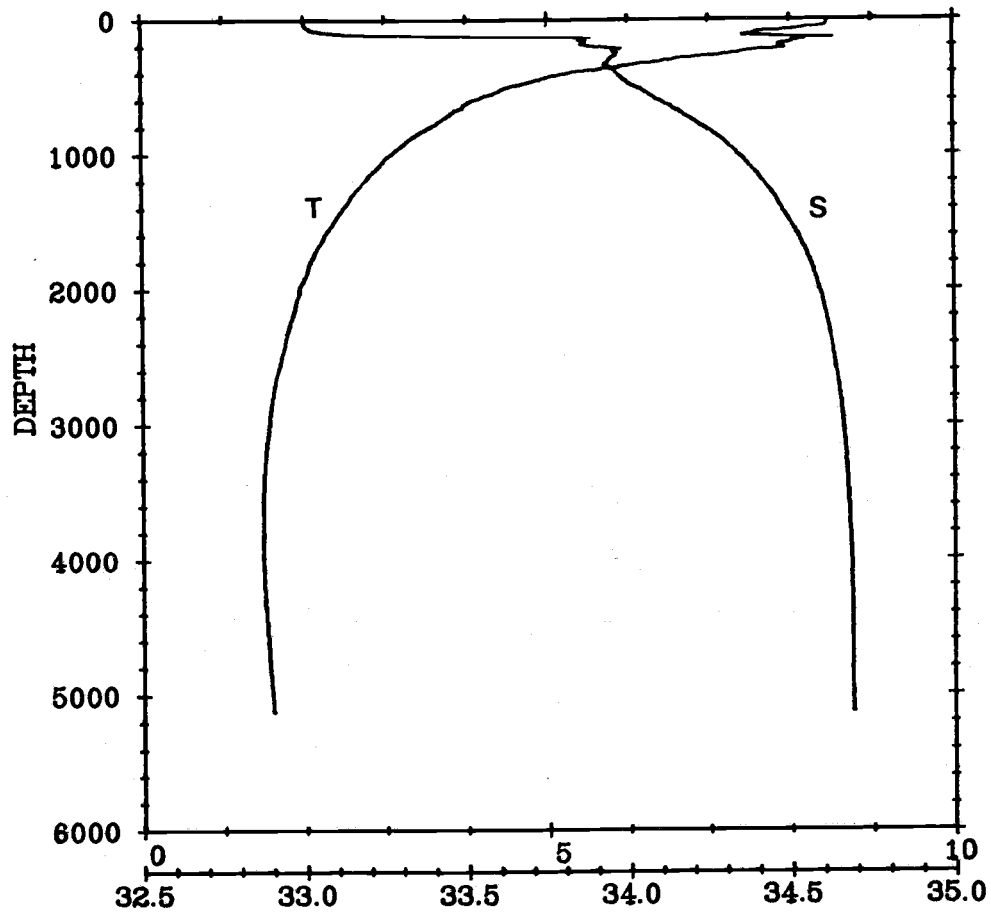
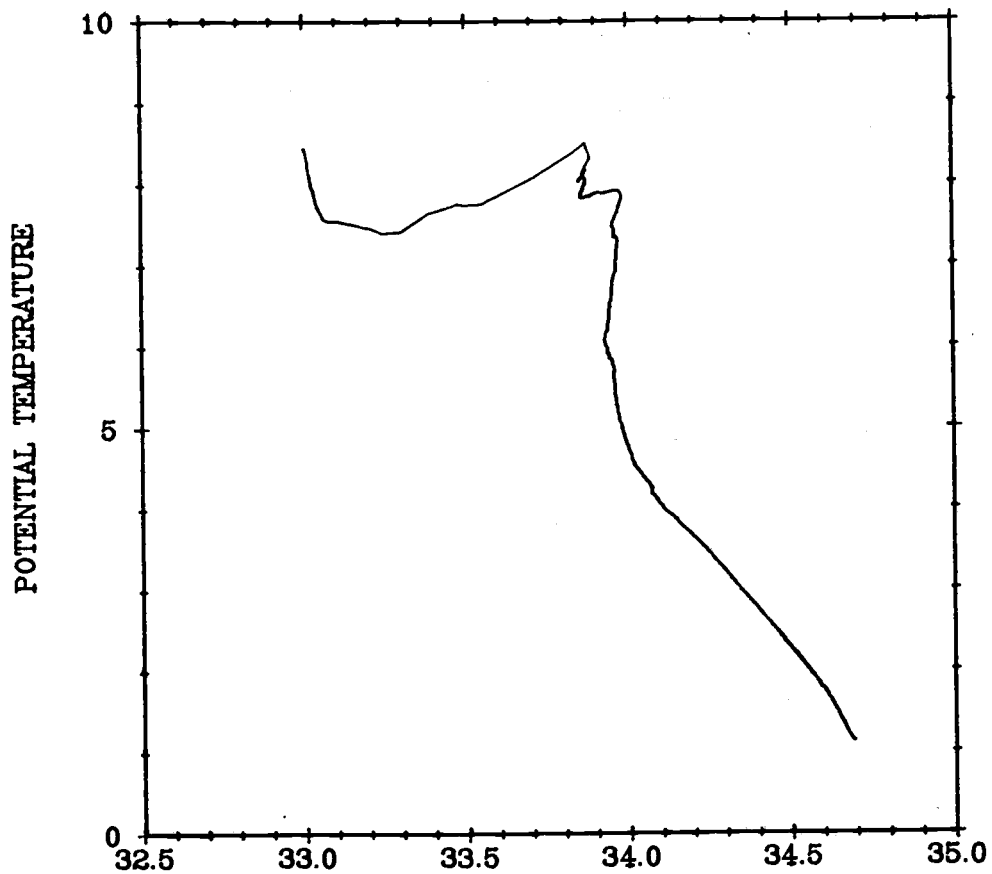


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
42 55.2N	151 58.8W	5/24/84	1624	5149	20	12	7.8	7.8	1011.2

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	8.448	33.001	8.448	25.638	34.545	43.060	234.076	0.000	0
20	8.456	33.003	8.454	25.639	34.546	43.060	234.364	0.047	19
40	8.446	33.004	8.442	25.641	34.549	43.064	234.467	0.094	39
60	8.269	33.013	8.263	25.675	34.591	43.113	231.584	0.140	59
80	7.942	33.029	7.934	25.736	34.666	43.202	226.096	0.186	79
100	7.590	33.078	7.581	25.825	34.771	43.321	217.892	0.230	99
130	8.167	33.857	8.152	26.354	35.262	43.777	168.791	0.327	149
200	7.880	33.883	7.860	26.417	35.338	43.866	163.554	0.410	198
250	7.368	33.960	7.344	26.552	35.495	44.044	151.417	0.489	248
300	6.585	33.944	6.558	26.646	35.627	44.210	142.761	0.563	297
350	5.962	33.937	5.932	26.721	35.732	44.344	135.921	0.632	347
400	5.294	33.965	5.262	26.825	35.868	44.510	126.213	0.698	397
450	4.915	33.988	4.881	26.887	35.948	44.608	120.554	0.759	446
500	4.573	34.020	4.535	26.950	36.029	44.704	114.693	0.918	496
600	4.123	34.093	4.079	27.057	36.157	44.854	105.064	0.928	595
700	3.823	34.169	3.773	27.148	36.264	44.974	96.885	1.029	694
800	3.581	34.233	3.525	27.224	36.351	45.072	90.210	1.123	793
900	3.302	34.295	3.240	27.300	36.442	45.176	83.239	1.209	892
1000	3.099	34.338	3.031	27.354	36.506	45.250	78.477	1.290	990
1100	2.919	34.379	2.844	27.403	36.565	45.318	74.075	1.367	1089
1200	2.754	34.415	2.673	27.447	36.617	45.378	70.167	1.439	1188
1300	2.615	34.448	2.528	27.486	36.664	45.431	66.731	1.507	1287
1400	2.498	34.473	2.404	27.517	36.700	45.474	64.096	1.572	1385
1500	2.379	34.497	2.279	27.546	36.736	45.516	61.475	1.635	1484
1600	2.266	34.522	2.159	27.576	36.772	45.558	58.814	1.695	1582
1700	2.171	34.542	2.059	27.600	36.801	45.592	56.719	1.753	1681
1800	2.086	34.560	1.965	27.622	36.828	45.623	54.810	1.809	1779
1900	2.026	34.574	1.898	27.639	36.848	45.646	53.487	1.863	1878
2000	1.943	34.586	1.808	27.655	36.869	45.672	52.009	1.916	1976
2100	1.901	34.600	1.760	27.670	36.887	45.692	50.893	1.967	2074
2200	1.863	34.607	1.712	27.679	36.899	45.706	50.252	2.018	2173
2300	1.807	34.617	1.648	27.692	36.915	45.725	49.183	2.068	2271
2400	1.765	34.624	1.598	27.701	36.927	45.740	48.491	2.116	2369
2500	1.727	34.630	1.552	27.709	36.938	45.753	47.906	2.165	2467
2600	1.682	34.637	1.499	27.719	36.950	45.758	47.140	2.212	2565
2700	1.638	34.644	1.446	27.728	36.962	45.782	46.371	2.259	2663
2800	1.605	34.649	1.405	27.735	36.971	45.794	45.877	2.305	2761
2900	1.579	34.654	1.370	27.742	36.980	45.804	45.464	2.351	2859
3000	1.558	34.658	1.340	27.747	36.987	45.813	45.191	2.396	2957
3100	1.540	34.661	1.313	27.752	36.992	45.820	45.003	2.441	3055
3200	1.521	34.665	1.284	27.757	36.999	45.828	44.730	2.486	3153
3300	1.508	34.667	1.262	27.760	37.004	45.834	44.679	2.531	3251
3400	1.496	34.670	1.240	27.764	37.009	45.840	44.564	2.575	3349
3500	1.488	34.673	1.222	27.767	37.013	45.845	44.503	2.620	3446
3600	1.480	34.675	1.204	27.770	37.017	45.850	44.508	2.664	3544
3700	1.478	34.677	1.192	27.773	37.020	45.854	44.600	2.709	3642
3800	1.476	34.679	1.179	27.775	37.023	45.858	44.690	2.754	3739
3900	1.475	34.680	1.168	27.777	37.026	45.860	44.864	2.798	3837
4000	1.478	34.682	1.160	27.779	37.028	45.863	45.029	2.843	3934
4100	1.483	34.683	1.154	27.780	37.030	45.865	45.295	2.888	4032
4200	1.488	34.684	1.147	27.781	37.031	45.867	45.562	2.934	4129
4300	1.495	34.685	1.143	27.783	37.033	45.869	45.862	2.980	4226
4400	1.503	34.685	1.139	27.783	37.033	45.869	46.250	3.026	4324
4500	1.513	34.686	1.138	27.784	37.034	45.870	46.603	3.072	4421
4600	1.523	34.686	1.136	27.784	37.034	45.871	47.028	3.119	4518
4700	1.534	34.686	1.135	27.784	37.035	45.871	47.471	3.166	4615
4800	1.546	34.687	1.134	27.785	37.035	45.872	47.865	3.214	4712
4900	1.557	34.687	1.133	27.785	37.035	45.872	48.313	3.262	4809
5000	1.568	34.687	1.131	27.785	37.036	45.872	48.764	3.310	4907
5100	1.580	34.687	1.131	27.785	37.036	45.872	49.234	3.359	5004
5200	1.592	34.687	1.130	27.785	37.036	45.873	49.707	3.409	5101
5234	1.596	34.688	1.130	27.786	37.037	45.873	49.798	3.426	5133

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	8.385	32.984	6.85	103.3	14.1	0.97	9.1	0.10		8.385	25.634	34.544	43.062	1
31	8.407	33.009	6.84	103.2	13.9	0.97	9.2	0.10		8.404	25.651	34.560	43.076	31
54	8.277	33.014	6.85	103.0	14.2	0.98	9.3	0.11		8.272	25.675	34.589	43.112	54
107	7.394	33.285	6.61	97.6	15.2	1.07	11.8	0.07		7.384	26.015	34.967	43.523	107
153	8.092	33.867	6.05	91.1	18.2	1.05	13.6	0.01		8.077	26.373	35.284	43.802	153
188	7.866	33.853	6.06	90.7	19.2	1.07	13.8	0.01		7.847	26.396	35.317	43.845	188
291	6.798	33.953	4.47	65.3	40.5	1.74	24.2	0.01		6.761	26.626	35.597	44.171	293
398	5.590	33.959	3.05	43.3	63.4	2.27	32.1	0.01		5.557	26.785	35.813	44.442	400
505	4.720	34.004	2.11	29.3	82.5	2.62	37.3	0.00		4.681	26.921	35.993	44.662	508
601	4.199	34.081	1.40	19.2	99.5	2.84	40.5	0.00		4.154	27.039	36.136	44.829	605
695	3.864	34.156	1.01	13.8	110.8	2.95	42.2	0.00		3.814	27.134	36.247	44.955	700
783	3.651	34.216	0.75	10.2	121.7	3.00	43.2	0.00		3.595	27.203	36.327	45.045	789
880	3.421	34.269	0.54	7.3	129.1	3.08	44.1	0.00		3.359	27.268	36.404	45.133	887
966	3.207	34.317	0.40	5.4	139.4	3.11	44.8	0.00		3.140	27.327	36.473	45.212	974
1214	2.762	34.417	0.27	3.6	156.4	3.16	45.5	0.00		2.679	27.448	36.617	45.378	1225
1461	2.447	34.486	0.37	4.9	168.1	3.13	45.5	0.00		2.348	27.532	36.718	45.494	1476
1707	2.188	34.539	0.71	9.3	175.8	3.08	44.7	0.00		2.072	27.597	36.797	45.587	1726
1955	1.988	34.579	1.11	14.4	181.2	3.01	43.6	0.00		1.854	27.646	36.857	45.658	1978
2482	1.711	34.634	1.94	25.0	184.0	2.86	41.4	0.00		1.535	27.714	36.942	45.758	2514
2982	1.552	34.660	2.59	33.3	176.9	2.71	39.6	0.00		1.332	27.749	36.989	45.815	3024
3484	1.485	34.675	3.05	39.1	172.7	2.61	38.3	0.00		1.215	27.770	37.015	45.848	3538
3983	1.480	34.682	3.24	41.4	172.6		37.7	0.00		1.156	27.779	37.028	45.864	4049
4579	1.530	34.686	3.34	42.7	178.3		37.6	0.00		1.135	27.784	37.034	45.870	4662
5133	1.596	34.688	3.37	43.1	179.0	2.60	37.4	0.00		1.130	27.786	37.036	45.873	5233

MARATHON 2 STA. 61

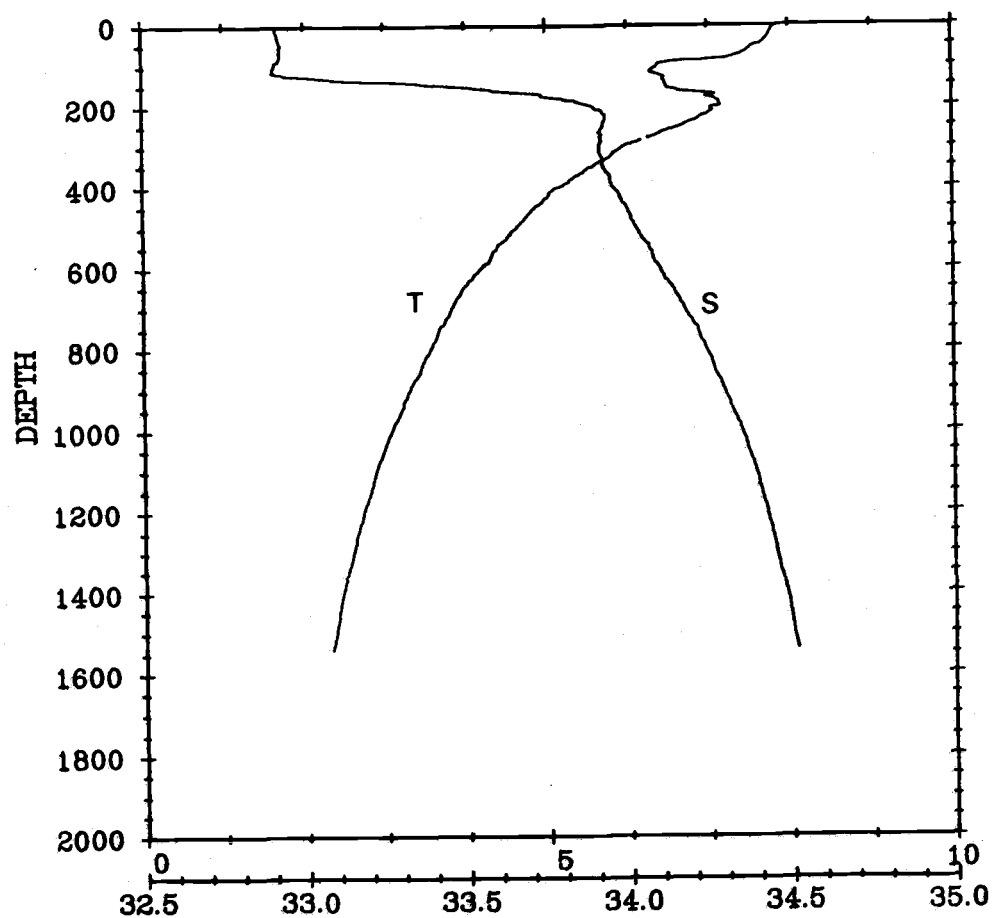
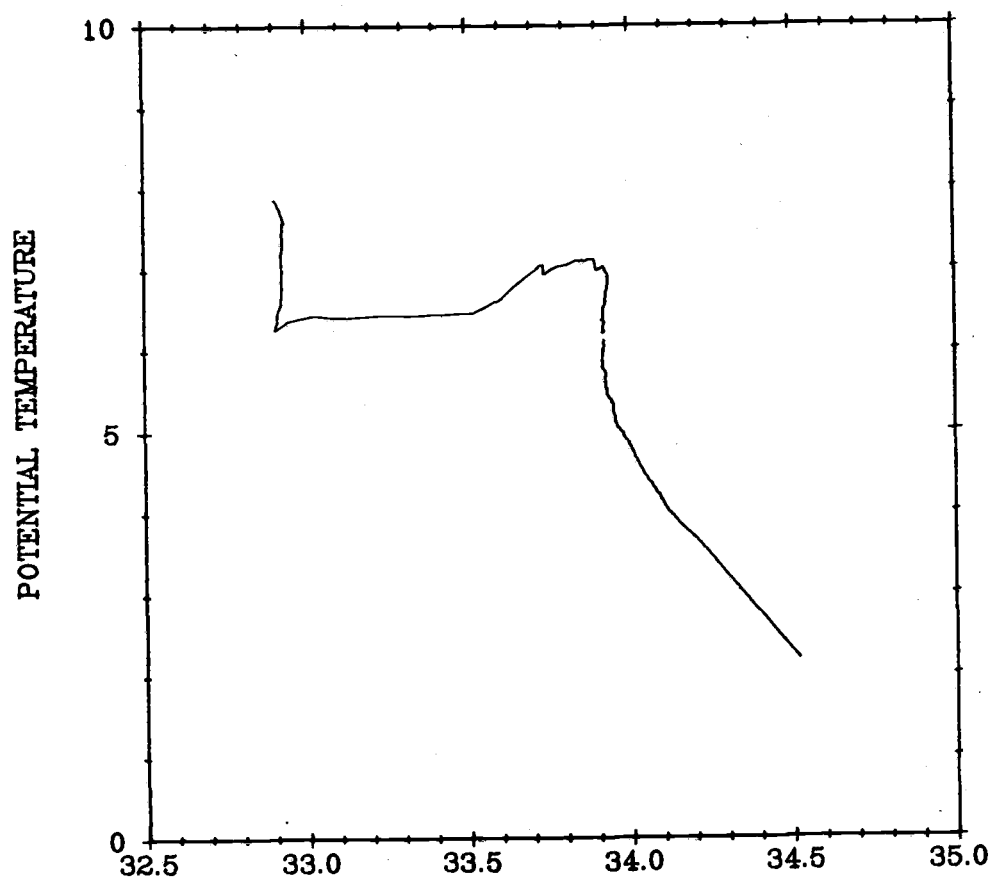


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
43 23.0N	152 0.4W	5/24/84	2348	4762	30	15	8.9	7.8	1013.5

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	7.822	32.911	7.822	25.659	34.597	43.139	232.042	0.000	0
20	7.765	32.918	7.763	25.673	34.613	43.158	231.039	0.046	19
40	7.676	32.925	7.672	25.692	34.635	43.184	229.600	0.092	39
60	7.502	32.927	7.496	25.718	34.670	43.226	227.391	0.138	59
80	7.150	32.924	7.143	25.765	34.733	43.305	223.228	0.183	79
100	6.402	32.907	6.393	25.850	34.854	43.460	215.251	0.227	99
150	6.502	33.432	6.489	26.252	35.243	43.837	177.876	0.325	149
200	7.100	33.883	7.081	26.528	35.485	44.046	152.740	0.408	198
250	6.641	33.923	6.619	26.622	35.600	44.181	144.376	0.482	248
300	5.968	33.915	5.943	26.703	35.713	44.325	137.019	0.553	297
350	5.554	33.926	5.525	26.762	35.793	44.424	131.697	0.620	347
400	5.155	33.956	5.123	26.813	35.884	44.532	125.230	0.684	397
450	4.863	33.996	4.828	26.899	35.963	44.625	119.340	0.745	446
500	4.622	34.026	4.584	26.950	36.026	44.699	114.808	0.804	496
600	4.193	34.096	4.149	27.052	36.149	44.842	105.625	0.914	595
700	3.823	34.173	3.773	27.151	36.267	44.977	96.587	1.015	694
800	3.561	34.238	3.505	27.230	36.358	45.080	89.617	1.108	793
900	3.303	34.293	3.241	27.299	36.440	45.174	83.398	1.195	891
1000	3.074	34.344	3.006	27.361	36.514	45.259	77.757	1.275	990
1100	2.873	34.388	2.799	27.415	36.578	45.333	72.900	1.350	1089
1200	2.717	34.422	2.636	27.456	36.628	45.391	69.239	1.422	1188
1300	2.585	34.450	2.498	27.490	36.669	45.438	66.248	1.489	1286
1400	2.450	34.479	2.357	27.525	36.711	45.487	63.112	1.554	1385
1500	2.355	34.501	2.255	27.551	36.743	45.524	60.907	1.616	1484
1554	2.295	34.515	2.191	27.568	36.762	45.546	59.448	1.648	1537

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
3	7.865	32.918	6.96	103.6	16.1	1.08	10.3	0.12	7.865	25.659	34.594	43.134		3
50	7.663	32.930	7.01	103.9	16.3	1.08	10.5	0.12	7.658	25.698	34.642	43.191		50
103	6.353	32.910	7.00	100.6	17.6	1.20	12.0	0.21	6.344	25.858	34.865	43.473		103
133	6.415	33.059	6.80	98.0	18.6	1.21	13.2	0.18	6.404	25.969	34.969	43.573		133
170	6.883	33.701	5.97	87.3	23.7	1.29	16.6	0.02	6.867	26.414	35.383	43.956		171
200	7.023	33.895	4.99	73.3	33.3	1.54	21.1	0.02	7.004	26.549	35.509	44.073		201
250	6.567	33.921	4.61	67.0	41.4	1.75	24.2	0.01	6.545	26.630	35.612	44.196		251
300	5.908	33.912	3.91	55.9	51.8	2.01	28.1	0.01	5.892	26.708	35.721	44.335		302
402	5.065	33.965	2.60	36.5	73.3	2.47	34.8	0.01	5.033	26.851	35.905	44.558		405
502	4.604	34.028	1.94	26.9	88.1	2.69	37.9	0.01	4.566	26.953	36.030	44.704		505
601	4.135	34.103	1.30	17.8	103.8	2.88	40.8	0.01	4.091	27.063	36.163	44.859		605
700	3.791	34.181	0.89	12.1	117.3	2.99	42.5	0.01	3.741	27.161	36.278	44.989		705
799	3.551	34.242	0.62	8.4	126.8	3.07	43.7	0.01	3.494	27.234	36.363	45.085		806
899	3.264	34.301	0.39	5.2	138.6	3.13	44.6	0.01	3.201	27.309	36.452	45.188		907
1002	3.047	34.351	0.34	4.5	146.5	3.16	45.0	0.01	2.978	27.369	36.523	45.270		1011
1195	2.691	34.428	0.30	4.0	159.5		45.3	0.01	2.610	27.463	36.636	45.400		1206
1535	2.297	34.516	0.55	7.2	172.7		45.0	0.01	2.193	27.568	36.762	45.546		1551

MARATHON 2 STA. 62

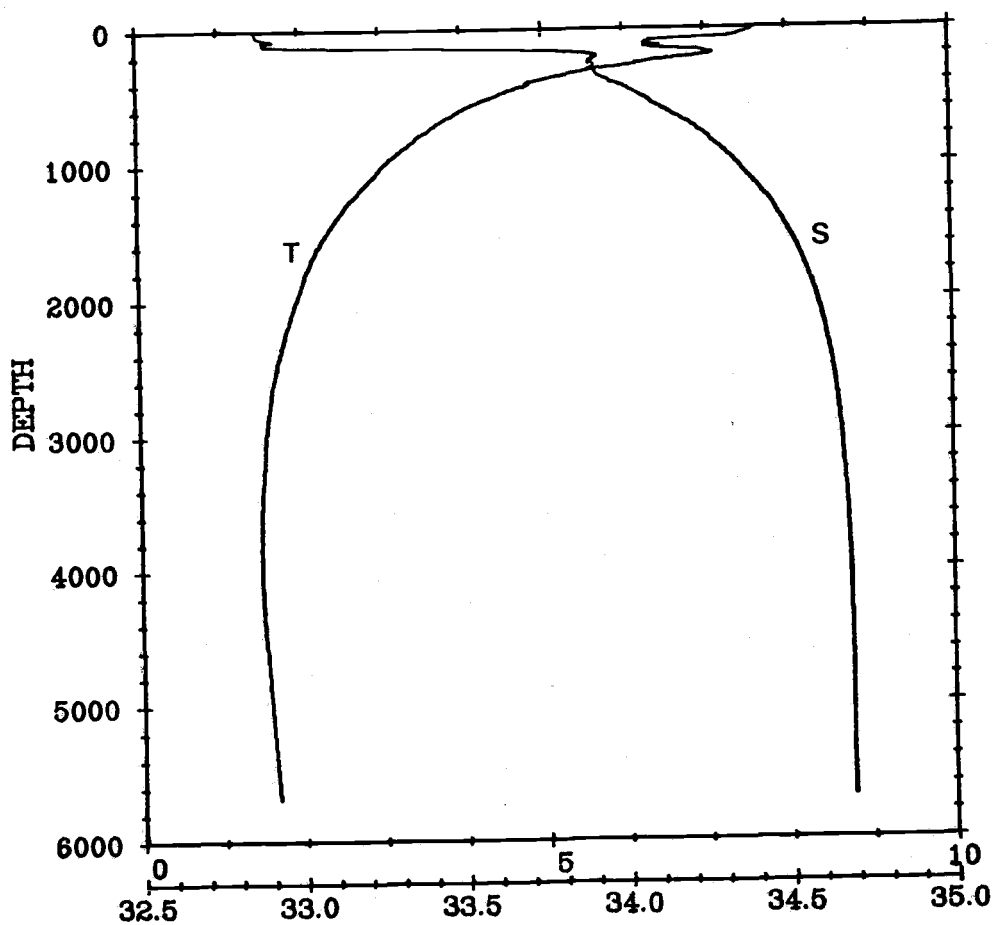
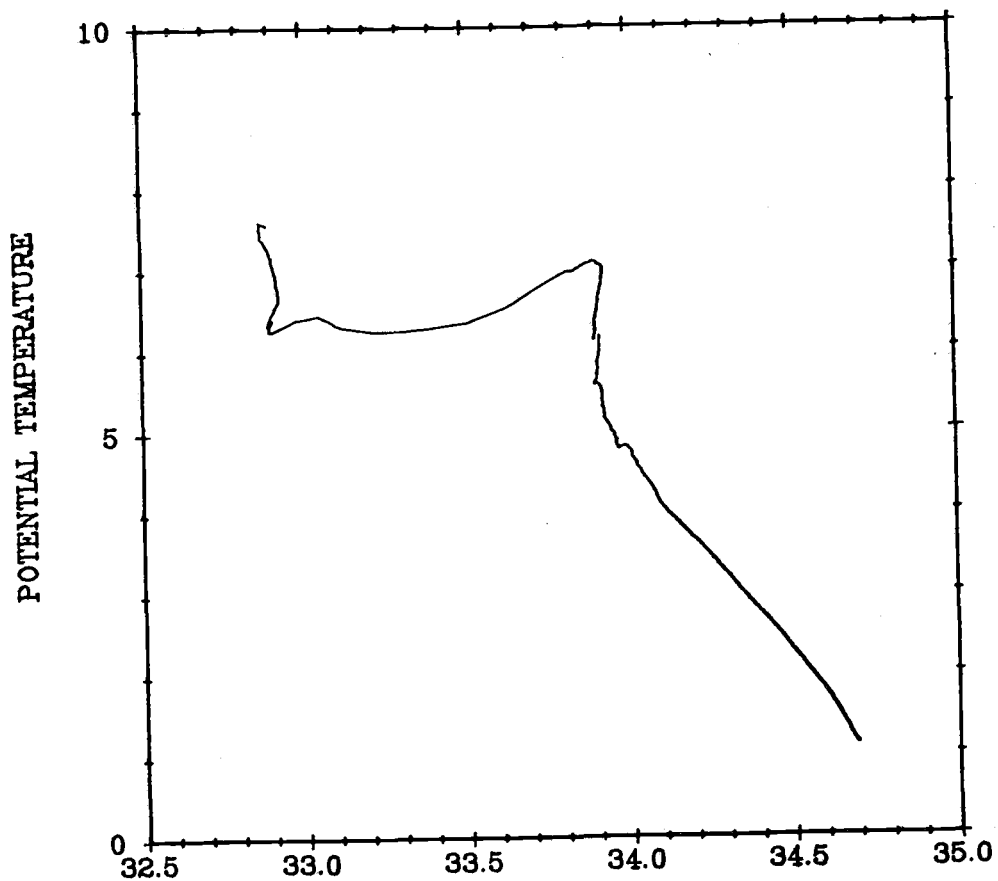


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
43 49.7N	151 59.4W	5/25/84	618	5639	20	12	7.2	6.1	1021.7

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	7.609	32.873	7.609	25.660	34.607	43.160	232.000	0.000	0
20	7.582	32.869	7.580	25.661	34.610	43.163	232.224	0.046	19
40	7.476	32.871	7.472	25.678	34.631	43.190	230.941	0.093	39
60	7.322	32.885	7.316	25.710	34.671	43.236	228.129	0.139	59
80	6.754	32.909	6.747	25.806	34.793	43.383	219.251	0.183	79
100	6.326	32.896	6.318	25.851	34.859	43.468	215.141	0.227	99
150	6.496	33.544	6.493	26.341	35.131	43.923	169.436	0.323	149
200	7.028	33.914	7.010	26.562	35.522	44.086	149.465	0.403	198
250	6.271	33.896	6.249	26.649	35.645	44.243	141.617	0.475	248
300	5.665	33.900	5.640	26.728	35.754	44.379	134.405	0.544	297
350	5.208	33.924	5.180	26.802	35.849	44.496	127.708	0.610	347
400	4.845	33.964	4.814	26.875	35.941	44.604	121.017	0.672	397
450	4.646	34.017	4.612	26.939	36.015	44.686	115.274	0.731	446
500	4.421	34.053	4.394	26.993	36.079	44.761	110.506	0.785	496
600	4.010	34.121	3.967	27.090	36.197	44.898	101.720	0.894	595
700	3.713	34.196	3.664	27.181	36.302	45.016	93.660	0.991	694
800	3.466	34.255	3.410	27.252	36.385	45.112	87.308	1.082	793
900	3.266	34.300	3.204	27.308	36.451	45.187	82.472	1.167	891
1000	3.066	34.343	2.998	27.361	36.515	45.260	77.743	1.247	990
1100	2.913	34.379	2.838	27.404	36.566	45.319	74.008	1.323	1089
1200	2.747	34.415	2.666	27.448	36.618	45.380	70.089	1.395	1188
1300	2.592	34.450	2.505	27.490	36.668	45.437	66.126	1.461	1286
1400	2.469	34.474	2.375	27.520	36.705	45.480	63.695	1.528	1385
1500	2.352	34.498	2.252	27.549	36.741	45.522	61.094	1.591	1484
1600	2.244	34.521	2.137	27.577	36.775	45.561	58.635	1.650	1582
1700	2.151	34.541	2.037	27.601	36.804	45.595	56.536	1.708	1681
1800	2.077	34.557	1.956	27.620	36.827	45.622	54.924	1.764	1779
1900	2.011	34.571	1.883	27.637	36.848	45.646	53.527	1.818	1878
2000	1.949	34.584	1.813	27.653	36.867	45.669	52.228	1.871	1976
2100	1.890	34.596	1.747	27.668	36.885	45.691	51.015	1.922	2074
2200	1.838	34.606	1.687	27.680	36.901	45.709	50.014	1.973	2172
2300	1.785	34.615	1.626	27.692	36.916	45.727	49.051	2.022	2271
2400	1.741	34.623	1.574	27.702	36.929	45.743	48.257	2.071	2369
2500	1.690	34.632	1.516	27.714	36.944	45.761	47.282	2.119	2467
2600	1.658	34.638	1.475	27.722	36.954	45.773	46.753	2.166	2565
2700	1.622	34.644	1.431	27.729	36.964	45.785	46.158	2.212	2663
2800	1.598	34.648	1.398	27.735	36.971	45.794	45.854	2.258	2761
2900	1.574	34.653	1.365	27.741	36.980	45.804	45.467	2.304	2859
3000	1.555	34.657	1.337	27.747	36.986	45.812	45.211	2.349	2957
3100	1.537	34.661	1.310	27.752	36.993	45.820	44.961	2.394	3055
3200	1.529	34.663	1.292	27.755	36.997	45.825	44.988	2.439	3153
3300	1.514	34.666	1.268	27.759	37.002	45.832	44.837	2.484	3250
3400	1.504	34.668	1.248	27.762	37.006	45.837	44.824	2.529	3348
3500	1.489	34.672	1.223	27.767	37.012	45.844	44.589	2.574	3446
3600	1.482	34.674	1.206	27.770	37.016	45.849	44.609	2.618	3544
3700	1.476	34.676	1.190	27.772	37.020	45.853	44.641	2.663	3641
3800	1.476	34.678	1.179	27.775	37.023	45.857	44.761	2.708	3739
3900	1.473	34.680	1.166	27.777	37.026	45.861	44.832	2.753	3836
4000	1.474	34.681	1.156	27.778	37.028	45.863	45.036	2.798	3934
4100	1.480	34.682	1.151	27.780	37.029	45.865	45.318	2.843	4031
4200	1.484	34.683	1.143	27.781	37.031	45.867	45.568	2.888	4129
4300	1.492	34.684	1.140	27.782	37.032	45.868	45.884	2.934	4226
4400	1.500	34.685	1.136	27.783	37.034	45.870	46.200	2.980	4323
4500	1.509	34.685	1.134	27.783	37.034	45.870	46.606	3.026	4420
4600	1.520	34.685	1.133	27.783	37.034	45.870	47.046	3.073	4518
4700	1.531	34.686	1.132	27.784	37.035	45.871	47.420	3.120	4615
4800	1.542	34.686	1.130	27.784	37.035	45.872	47.965	3.168	4712
4900	1.554	34.686	1.130	27.784	37.035	45.872	48.330	3.216	4809
5000	1.565	34.686	1.128	27.784	37.035	45.872	48.779	3.265	4906
5100	1.577	34.687	1.128	27.785	37.036	45.873	49.180	3.314	5003
5200	1.589	34.687	1.127	27.785	37.036	45.873	49.652	3.363	5100
5300	1.601	34.687	1.126	27.785	37.036	45.873	50.127	3.413	5197
5400	1.614	34.687	1.126	27.785	37.036	45.873	50.623	3.463	5294
5500	1.628	34.687	1.127	27.785	37.036	45.873	51.139	3.514	5391
5600	1.641	34.687	1.126	27.785	37.036	45.873	51.640	3.566	5487
5700	1.654	34.687	1.126	27.785	37.036	45.873	52.143	3.618	5584
5800	1.666	34.687	1.124	27.785	37.037	45.873	52.630	3.670	5681
5804	1.667	34.688	1.125	27.786	37.037	45.874	52.591	3.672	5685

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SiO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C													
1	7.564	32.877	7.04	104.1	17.2	1.09	10.6	0.11	7.564	25.669	34.619	43.173	1	
48	7.494	32.875	7.04	103.9	17.2	1.09	10.6	0.11	7.489	25.678	34.631	43.188	48	
100	6.506	32.925	6.99	100.8	18.1	1.17	11.7	0.20	6.497	25.851	34.850	43.450	100	
134	6.478	33.024	6.93	98.5	18.3	1.18	12.6	0.24	6.466	25.933	34.931	43.532	134	
200	7.067	33.909	5.14	75.6	33.8	1.53	21.2	0.01	7.048	26.553	35.511	44.073	201	
300	5.546	33.877D	3.86	54.7	54.2	2.07	29.1	0.00	5.521	26.724	35.756	44.387	302	
399	4.956	33.982	2.44	34.1	76.6	2.51	35.6	0.00	4.925	26.877	35.937	44.594	402	
496	4.405	34.057	1.65	22.8	93.6	2.77	39.3	0.00	4.368	26.998	36.084	44.767	499	
602	3.968	34.132	1.14	15.6	108.2	2.92	41.7	0.00	3.924	27.104	36.211	44.915	606	
702	3.684	34.206	0.80	10.9	120.2	3.02	43.0	0.00	3.634	27.191	36.313	45.030	707	
800	3.434	34.264	0.59	8.0	129.7	3.07	44.0	0.00	3.378	27.262	36.397	45.125	807	
896	3.228	34.311	0.41	5.5	138.2	3.12	44.7	0.00	3.166	27.320	36.465	45.202	904	
995	3.005	34.359	0.33	4.4	148.2	3.16	45.1	0.00	2.937	27.379	36.536	45.284	1004	
1244	2.641	34.442	0.32	4.2	160.7	3.17	45.4	0.00	2.557	27.479	36.654	45.420	1256	
1491	2.345	34.503	0.49	6.4	170.3	3.14	45.2	0.00	2.244	27.554	36.745	45.527	1506	
1749	2.125	34.550	0.81	10.6	175.8	3.10	44.5	0.00	2.006	27.611	36.814	45.607	1768	
1991	1.957	34.585	1.18	15.3	179.5	3.01	43.5	0.00	1.820	27.653	36.867	45.668	2014	
2485	1.708	34.631	1.93	24.9	180.0	2.87	41.4	0.00	1.532	27.712	36.940	45.757	2517	
2988	1.558	34.659	2.60	33.4	174.6	2.73	39.6	0.00	1.337	27.748	36.988	45.813	3031	
3484	1.485	34.675	3.08	39.4	170.1	2.65	38.2	0.00	1.215	27.770	37.015	45.848	3538	
3972	1.475	34.681	3.32	42.5	170.4	2.58	37.6	0.00	1.153	27.780	37.030	45.865	4038	
4464	1.514	34.685	3.34	42.7	173.1		37.5	0.00	1.133	27.783	37.033	45.870	4544	
4948	1.570	34.686	3.38	43.2	172.9		37.3	0.00	1.128	27.784	37.035	45.872	5042	
5684	1.667	34.687	3.39	43.3	174.2	2.58	37.4	0.00	1.125	27.785	37.036	45.873	5802	

MARATHON 2 STA. 63

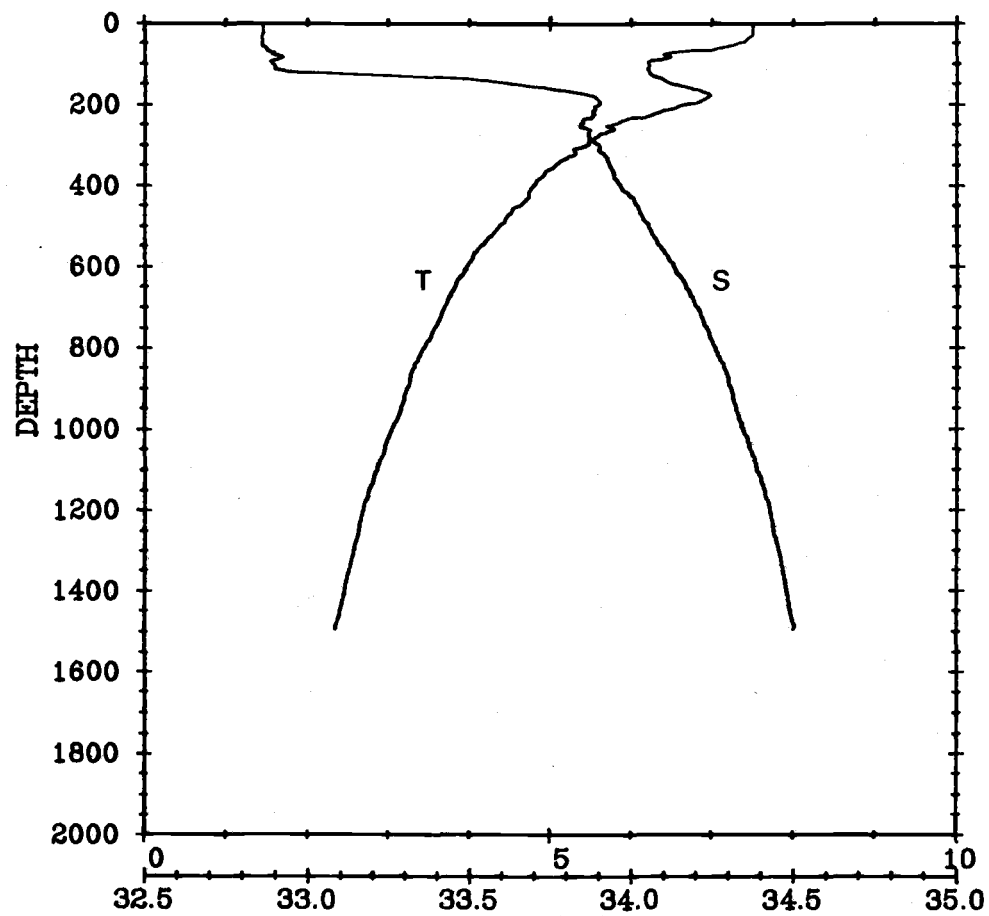
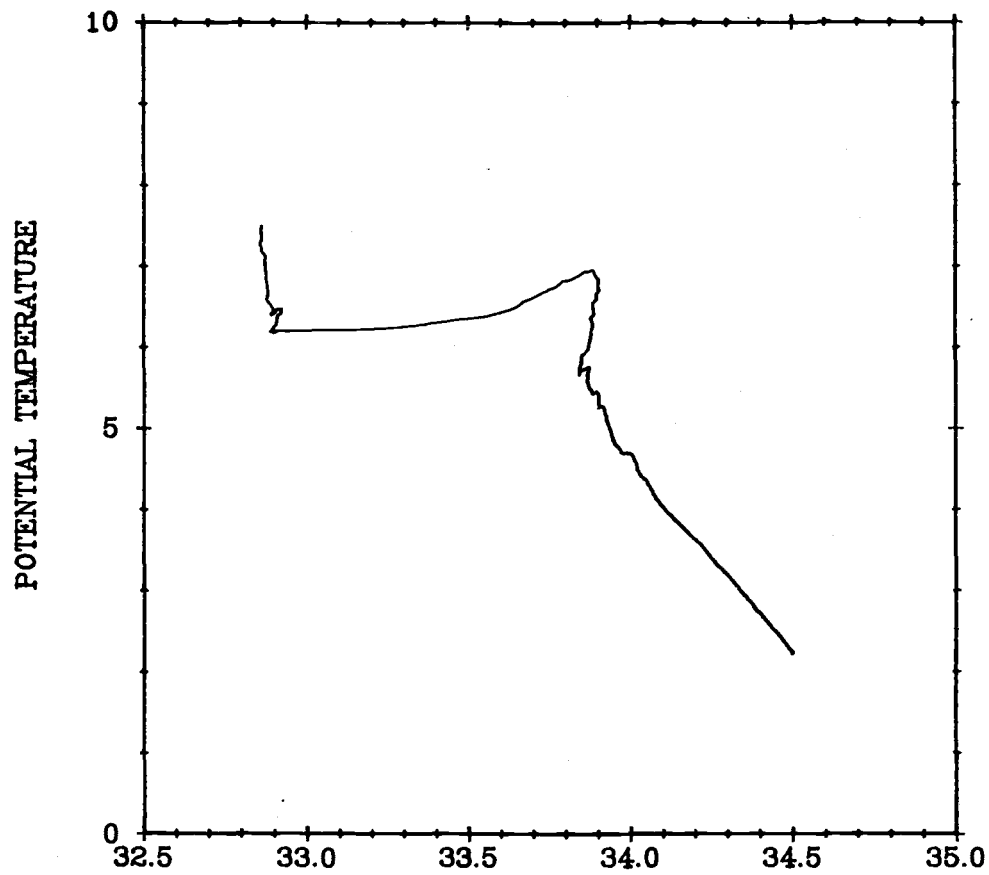


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
44 17.6N	152 1.0W	5/25/84	1212	5095	170	2	7.2	6.1	1023.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	7.496	32.862	7.496	25.667	34.520	43.177	231.314	0.000	0
20	7.497	32.863	7.495	25.668	34.521	43.178	231.536	0.046	19
40	7.421	32.861	7.417	25.677	34.534	43.195	230.956	0.093	39
60	7.083	32.870	7.078	25.731	34.703	43.279	226.121	0.138	59
80	6.482	32.905	6.475	25.838	34.838	43.440	215.147	0.182	79
100	6.233	32.896	6.225	25.863	34.875	43.489	214.008	0.225	99
150	6.517	33.627	6.504	26.404	35.391	43.982	163.505	0.320	149
200	6.715	33.896	6.697	26.590	35.565	44.143	146.665	0.397	198
250	5.791	33.848	5.770	26.671	35.691	44.311	139.229	0.469	248
300	5.437	33.893	5.413	26.750	35.787	44.423	132.185	0.537	297
350	5.067	33.933	5.040	26.825	35.880	44.532	125.386	0.601	347
400	4.796	33.964	4.765	26.880	35.949	44.614	120.455	0.663	396
450	4.619	34.016	4.585	26.942	36.018	44.691	115.041	0.721	446
500	4.384	34.050	4.347	26.994	36.082	44.766	110.314	0.778	496
600	3.969	34.128	3.926	27.100	36.208	44.912	100.745	0.883	595
700	3.695	34.198	3.646	27.184	36.306	45.021	93.314	0.980	694
800	3.449	34.254	3.393	27.253	36.387	45.114	87.196	1.071	792
900	3.240	34.303	3.178	27.312	36.457	45.194	81.965	1.155	891
1000	3.061	34.341	2.993	27.360	36.514	45.260	77.837	1.235	990
1100	2.860	34.384	2.786	27.413	36.577	45.333	73.054	1.311	1089
1200	2.690	34.425	2.610	27.461	36.634	45.398	68.718	1.381	1188
1300	2.576	34.451	2.489	27.492	36.671	45.441	66.074	1.449	1286
1400	2.459	34.477	2.365	27.523	36.709	45.484	63.361	1.514	1385
1500	2.342	34.500	2.242	27.552	36.744	45.525	60.833	1.576	1483
1512	2.328	34.500	2.227	27.553	36.746	45.528	60.731	1.583	1495

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
2	7.464	32.868	7.02	103.5	17.3	1.14	11.1	0.11	4.46	7.464	25.676	34.630	43.189	2
49	7.386	32.863	7.04	103.6	17.0	1.14	11.0	0.11		7.381	25.684	34.642	43.204	49
101	6.342	32.910	7.01	100.7	18.0	1.21	12.1	0.20		6.333	25.860	34.867	43.475	101
133	6.168	32.931	6.99	100.0	18.4	1.24	12.8	0.22	4.11	6.157	25.899	34.914	43.530	133
166	6.522	33.639	5.92	85.8	25.5	1.39	18.1	0.02		6.507	26.412	35.400	43.990	167
198	6.877	33.903	5.08	74.4	35.2	1.59	22.1	0.02		6.959	26.574	35.541	44.111	199
246	5.870	33.848	4.69	67.0	44.2	1.84	25.5	0.00		5.849	26.661	35.677	44.294	247
295	5.477	33.883	3.72	52.7	55.4	2.12	29.9	0.00		5.453	26.737	35.772	44.406	297
397	4.820	33.959	2.41	33.6	75.8	2.54	35.3	0.00	2.35	4.789	26.874	35.940	44.605	400
493	4.406	34.054	1.68	23.2	94.1	2.76	39.6	0.00	1.66	4.369	26.995	36.082	44.764	496
595	3.987	34.127	1.18	16.1	108.5	2.91	41.8	0.00	1.51	3.944	27.097	36.205	44.907	599
694	3.709	34.194	0.87	11.8	119.5	3.00	43.0	0.00	0.64	3.660	27.179	36.300	45.015	699
794	3.460	34.256	0.65	8.8	130.0	3.07	44.0	0.00	0.18	3.404	27.253	36.387	45.113	801
889	3.245	34.305	0.50	6.7	138.2	3.11	44.7	0.00	-0.05	3.183	27.313	36.458	45.195	897
980	3.078	34.341	0.41	5.5	144.0	3.13	45.0	0.00	-0.06	3.011	27.358	36.511	45.256	989
1205	2.660	34.435	0.31	4.1	162.1		45.7	0.00		2.579	27.471	36.646	45.411	1217
1492	2.327	34.505	0.49	6.4	172.8		45.4	0.00		2.226	27.557	36.750	45.531	1508

MARATHON 2 STA. 64

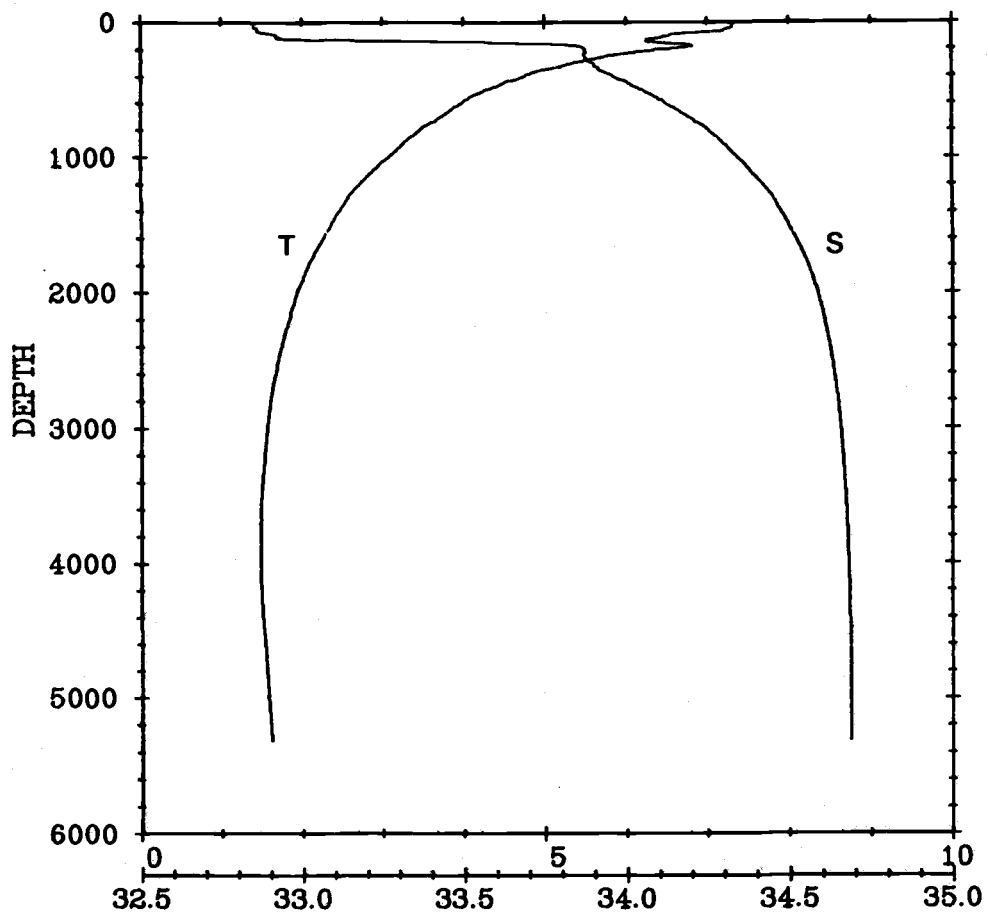
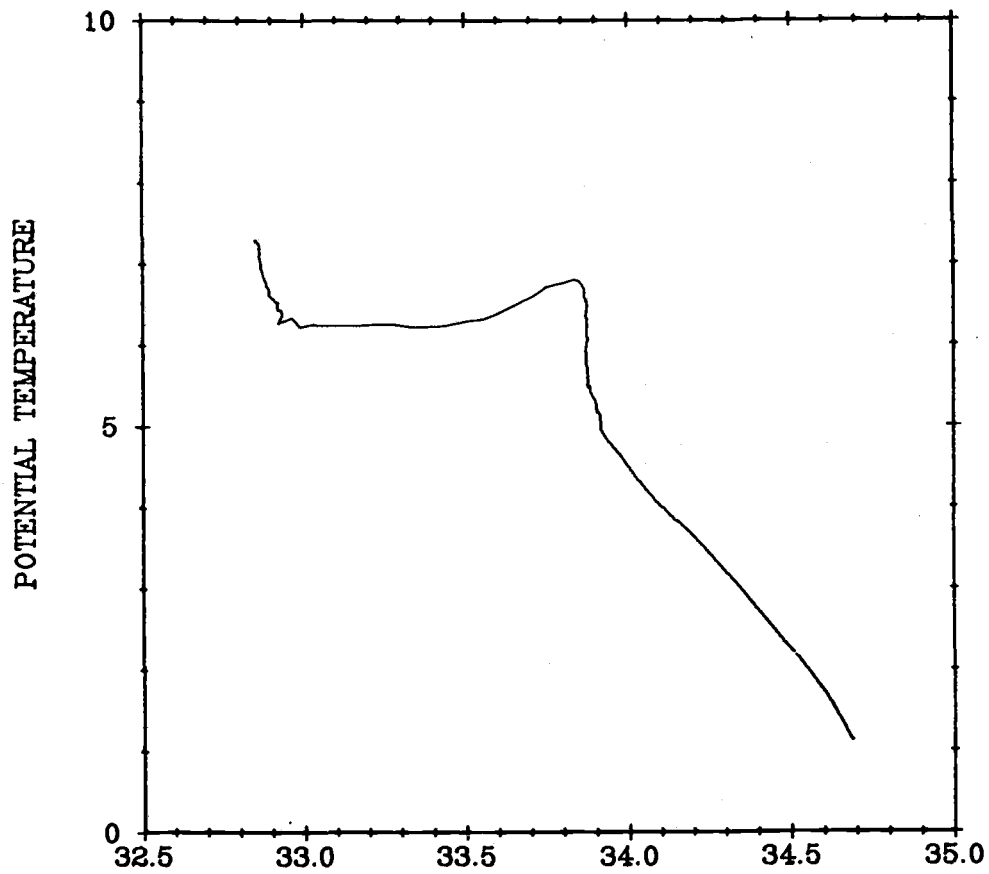


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
44 45.3N	152 0.0W	5/25/84	1724	5305	200	5	8.3	6.1	1023.7

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP							
DB	DEG C	DEG C				CL/TON		M
0	7.294	32.851	25.686	34.649	43.215	229.475	0.000	0
20	7.312	32.850	25.683	34.645	43.211	230.061	0.046	19
40	7.292	32.854	25.690	34.652	43.219	229.774	0.092	39
60	7.190	32.862	25.710	34.677	43.249	228.112	0.138	59
80	6.811	32.881	25.776	34.761	43.349	222.068	0.193	79
100	6.519	32.916	25.842	34.840	43.441	216.027	0.227	99
150	6.377	33.502	26.323	35.320	43.918	171.075	0.323	149
200	6.482	33.871	26.601	35.588	44.176	145.514	0.402	198
250	5.794	33.873	26.690	35.710	44.329	137.399	0.473	248
300	5.395	33.890	26.752	35.791	44.429	131.909	0.541	297
350	5.044	33.916	26.814	35.870	44.524	126.389	0.605	347
400	4.752	33.957	26.880	35.950	44.618	120.475	0.667	396
450	4.505	34.004	26.944	36.027	44.705	114.647	0.726	446
500	4.302	34.044	26.998	36.090	44.778	109.845	0.782	496
600	3.982	34.119	27.092	36.200	44.902	101.560	0.887	595
700	3.741	34.188	27.172	36.291	45.005	94.564	0.985	694
800	3.469	34.253	27.250	36.383	45.110	87.490	1.077	792
900	3.267	34.299	27.307	36.450	45.186	82.557	1.162	891
1000	3.089	34.341	27.357	36.510	45.254	78.144	1.242	990
1100	2.891	34.381	27.407	36.570	45.324	73.617	1.318	1039
1200	2.725	34.416	27.451	36.622	45.384	69.771	1.399	1188
1300	2.574	34.449	27.490	36.670	45.440	66.199	1.457	1286
1400	2.465	34.472	27.519	36.704	45.479	63.797	1.522	1385
1500	2.359	34.496	27.547	36.738	45.519	61.321	1.585	1484
1600	2.260	34.518	27.573	36.770	45.556	59.040	1.645	1582
1700	2.163	34.539	27.599	36.801	45.591	56.322	1.703	1681
1800	2.078	34.556	27.619	36.826	45.621	55.009	1.759	1779
1900	2.006	34.571	27.638	36.848	45.647	53.468	1.813	1877
2000	1.937	34.584	27.654	36.869	45.672	52.083	1.866	1976
2100	1.888	34.595	27.667	36.885	45.690	51.064	1.919	2074
2200	1.842	34.604	27.678	36.899	45.707	50.209	1.968	2172
2300	1.791	34.613	27.690	36.914	45.725	49.273	2.018	2270
2400	1.748	34.621	27.700	36.927	45.740	48.492	2.067	2369
2500	1.703	34.629	27.710	36.940	45.756	47.667	2.115	2467
2600	1.674	34.634	27.717	36.948	45.767	47.253	2.162	2565
2700	1.634	34.641	27.726	36.960	45.781	46.534	2.209	2663
2800	1.606	34.646	27.732	36.969	45.792	46.106	2.256	2761
2900	1.584	34.650	27.738	36.976	45.800	45.820	2.302	2859
3000	1.562	34.655	27.745	36.984	45.810	45.452	2.347	2957
3100	1.547	34.658	27.749	36.989	45.816	45.316	2.393	3055
3200	1.529	34.661	27.753	36.995	45.823	45.131	2.438	3152
3300	1.518	34.664	27.757	37.000	45.829	45.038	2.483	3250
3400	1.502	34.667	27.761	37.006	45.836	44.866	2.528	3348
3500	1.491	34.670	27.765	37.010	45.842	44.761	2.573	3446
3600	1.482	34.673	27.769	37.015	45.848	44.680	2.617	3543
3700	1.476	34.675	27.771	37.019	45.853	44.712	2.662	3641
3800	1.473	34.677	27.774	37.022	45.857	44.785	2.707	3738
3900	1.473	34.678	27.776	37.024	45.859	44.974	2.752	3836
4000	1.474	34.680	27.778	37.027	45.863	45.106	2.797	3933
4100	1.477	34.681	27.779	37.029	45.865	45.340	2.842	4031
4200	1.482	34.682	27.780	37.031	45.867	45.606	2.887	4128
4300	1.489	34.683	27.781	37.032	45.868	45.904	2.933	4225
4400	1.497	34.684	27.782	37.033	45.870	46.221	2.979	4323
4500	1.508	34.684	27.782	37.033	45.870	46.559	3.026	4420
4600	1.517	34.685	27.784	37.034	45.871	46.995	3.073	4517
4700	1.528	34.685	27.784	37.035	45.871	47.438	3.120	4614
4800	1.538	34.685	27.784	37.035	45.872	47.865	3.167	4711
4900	1.550	34.685	27.784	37.035	45.872	48.329	3.216	4809
5000	1.561	34.686	27.785	37.036	45.873	48.709	3.264	4906
5100	1.573	34.686	27.785	37.036	45.873	49.178	3.313	5003
5200	1.585	34.686	27.785	37.036	45.873	49.549	3.362	5100
5300	1.593	34.686	27.785	37.036	45.873	50.141	3.412	5196
5400	1.609	34.686	27.785	37.036	45.873	50.599	3.463	5293
5412	1.611	34.686	27.785	37.036	45.873	50.667	3.469	5305

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	7.399	32.861	7.04	103.7	17.1	1.15	11.2	0.12	7.399	25.680	34.637	43.198	1
51	7.246	32.866	7.05	103.4	17.1	1.16	11.2	0.12	7.241	25.705	34.670	43.239	51
101	6.051	32.905	7.06	100.7	18.1	1.26	12.7	0.19	6.043	25.892	34.913	43.535	101
145	6.254	33.469	6.24	89.9	22.1	1.34	16.8	0.02	6.242	26.313	35.315	43.920	145
192	6.684	33.874	5.10	74.3	34.7	1.62	22.3	0.01	6.667	26.577	35.553	44.133	193
296	5.397	33.894	3.49	49.3	56.8	2.20	30.8	0.01	5.373	26.755	35.794	44.432	298
391	4.760	33.957	2.32	32.3	75.7	2.57	36.5	0.00	4.730	26.879	35.948	44.616	393
477	4.358	34.035	1.68	23.2	91.3	2.77	39.5	0.00	4.323	26.985	36.074	44.760	480
593	3.978	34.122	1.14	15.6	106.8	2.93	41.7	0.00	3.935	27.094	36.202	44.905	597
694	3.743	34.189	0.87	11.8	118.0	3.00	42.6	0.00	3.693	27.172	36.291	45.005	699
792	3.438	34.263	0.59	8.0	130.0	3.07	43.8	0.00	3.383	27.261	36.396	45.123	799
881	3.263	34.302	0.50	6.7	135.8	3.08	44.3	0.00	3.202	27.309	36.452	45.189	889
1006	3.012	34.361	0.34	4.5	145.6	3.13	45.0	0.00	2.943	27.380	36.536	45.284	1015
1239	2.628	34.442	0.36	4.8	159.7	3.14	45.2	0.00	2.544	27.480	36.656	45.423	1251
1484	2.335	34.506	0.50	6.6	171.3	3.12	45.2	0.00	2.235	27.557	36.749	45.531	1500
1733	2.111	34.554	0.82	10.7	177.8	3.10	44.4	0.00	1.994	27.615	36.819	45.613	1752
2016	1.912	34.594	1.26	16.4	190.3	2.97	43.2	0.00	1.774	27.664	36.880	45.684	2040
2473	1.692	34.634	1.96	25.3	180.1	2.82	41.4	0.00	1.517	27.715	36.945	45.762	2505
3007	1.553	34.659	2.65	34.0	175.0	2.70	39.5	0.00	1.330	27.749	36.989	45.815	3050
3476	1.486	34.675	3.08	39.4	169.4	2.60	38.2	0.00	1.217	27.769	37.015	45.847	3530
4014	1.477	34.682	3.33	42.6	171.2	2.55	37.5	0.00	1.150	27.780	37.029	45.865	4082
4464	1.513	34.686	3.33	42.6					1.133	27.784	37.034	45.871	4544
4934	1.564	34.686	3.37	43.1	174.9				1.124	27.785	37.035	45.872	5028
5305	1.611	34.688	3.41	43.6	175.2	2.53	37.4	0.00	1.122	27.786	37.037	45.874	5411

MARATHON 2 STA. 65

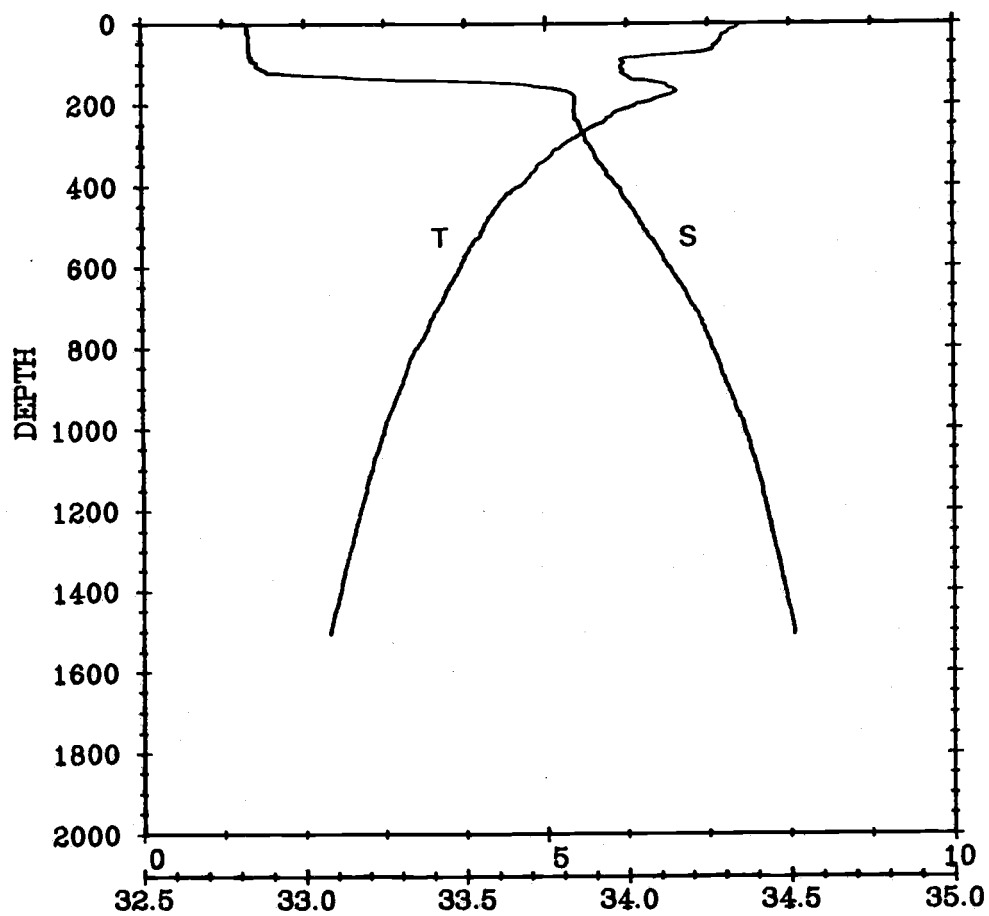
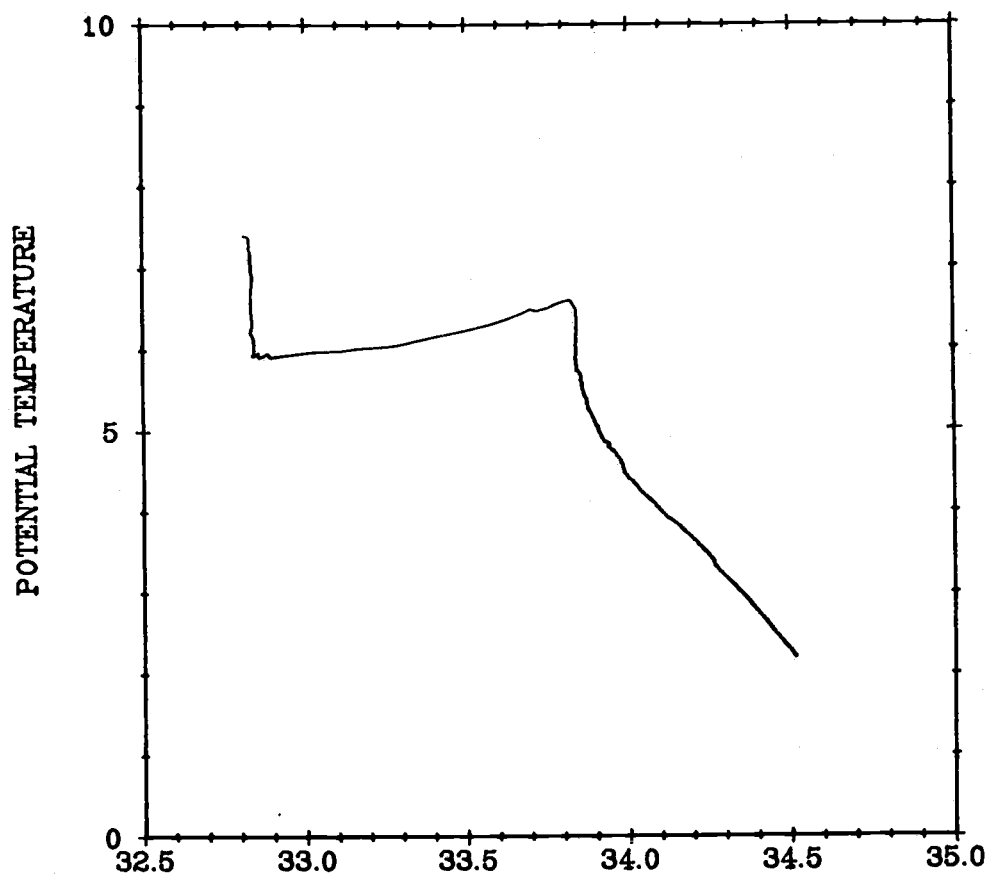


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
45 12.6N	151 59.8W	5/25/84	2112	5298	170	13	10.0	7.8	1022.0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	7.379	32.926	7.379	25.655	34.614	43.177	232.458	0.000	0
20	7.267	32.829	7.265	25.673	34.637	43.205	231.041	0.046	19
40	7.155	32.832	7.151	25.691	34.660	43.233	229.628	0.092	39
60	7.062	32.834	7.057	25.705	34.679	43.256	228.540	0.138	59
80	6.426	32.837	6.419	25.791	34.795	43.401	220.545	0.183	79
100	5.950	32.853	5.942	25.864	34.891	43.517	213.838	0.227	99
150	6.384	33.604	6.371	26.403	35.397	43.994	163.543	0.321	149
200	6.160	33.841	6.143	26.619	35.621	44.224	143.682	0.398	198
250	5.646	33.854	5.626	26.693	35.720	44.347	137.027	0.468	248
300	5.221	33.884	5.197	26.768	35.815	44.462	130.310	0.535	297
350	4.921	33.921	4.894	26.832	35.894	44.564	124.597	0.598	347
400	4.693	33.967	4.663	26.894	35.967	44.637	119.058	0.659	396
450	4.408	34.009	4.375	26.959	36.046	44.729	113.188	0.717	446
500	4.244	34.048	4.207	27.007	36.103	44.793	108.901	0.773	495
600	3.947	34.127	3.904	27.102	36.211	44.915	100.577	0.878	594
700	3.685	34.204	3.636	27.190	36.312	45.028	92.758	0.974	693
800	3.419	34.262	3.364	27.262	36.398	45.126	86.274	1.064	792
900	3.205	34.310	3.143	27.321	36.468	45.207	81.062	1.148	891
1000	3.005	34.359	2.937	27.379	36.536	45.284	75.987	1.226	990
1100	2.834	34.396	2.760	27.425	36.590	45.347	71.879	1.300	1089
1200	2.699	34.426	2.619	27.461	36.634	45.397	68.744	1.370	1187
1300	2.569	34.453	2.482	27.494	36.674	45.444	65.848	1.438	1286
1400	2.444	34.481	2.351	27.527	36.714	45.490	62.897	1.502	1385
1500	2.321	34.508	2.221	27.560	36.753	45.535	60.005	1.563	1483
1522	2.302	34.512	2.201	27.565	36.759	45.542	59.598	1.577	1505

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SiO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
3	7.371	32.836	7.07	104.0	17.5	1.18	11.3	0.11	7.371	25.664	34.623	43.186	3	
49	7.112	32.836	7.09	103.7	17.2	1.16	11.4	0.11	7.108	25.700	34.671	43.246	49	
98	6.015	32.868	7.05	100.3	18.2	1.26	12.7	0.18	6.007	25.867	34.891	43.515	98	
131	5.972	32.950	6.91	98.4	19.0	1.29	13.6	0.23	5.961	25.938	34.962	43.587	131	
163	6.577	33.759	5.47	79.5	30.3	1.53	20.5	0.01	6.562	26.500	35.483	44.069	164	
200	6.240	33.845	5.03	72.5	38.2	1.70	23.3	0.01	6.223	26.612	35.610	44.209	201	
240	5.779	33.850	4.51	64.3	46.0	1.89	26.1	0.01	5.759	26.674	35.694	44.315	241	
298	5.262	33.880	3.47	48.9	58.6	2.21	31.0	0.00	5.238	26.760	35.805	44.450	300	
400	4.711	33.965	2.25	31.3	78.6	2.60	36.7	0.00	4.680	26.891	35.963	44.632	403	
499	4.242	34.052	1.55	21.3	95.9	2.82	39.9	0.00	4.205	27.011	36.106	44.797	503	
599	3.935	34.131	1.09	14.9	109.2	2.94	41.6	0.00	3.892	27.106	36.216	44.920	604	
699	3.673	34.207	0.83	11.3	121.1	3.02	42.9	0.00	3.623	27.193	36.316	45.032	705	
799	3.404	34.267	0.66	8.9	130.3	3.07	43.6	0.00	3.348	27.268	36.404	45.133	806	
901	3.189	34.316	0.52	7.0	138.7	3.10	44.1	0.00	3.127	27.327	36.475	45.214	909	
999	2.994	34.361	0.42	5.5	145.6	3.13	44.5	0.00	2.926	27.382	36.539	45.288	1008	
1248	2.619	34.444	0.36	4.8	161.8		45.1	0.00	2.535	27.482	36.659	45.426	1250	
1505	2.304	34.511	0.50	6.6	173.6		44.9	0.00	2.203	27.563	36.757	45.541	1521	

MARATHON 2 STA. 66

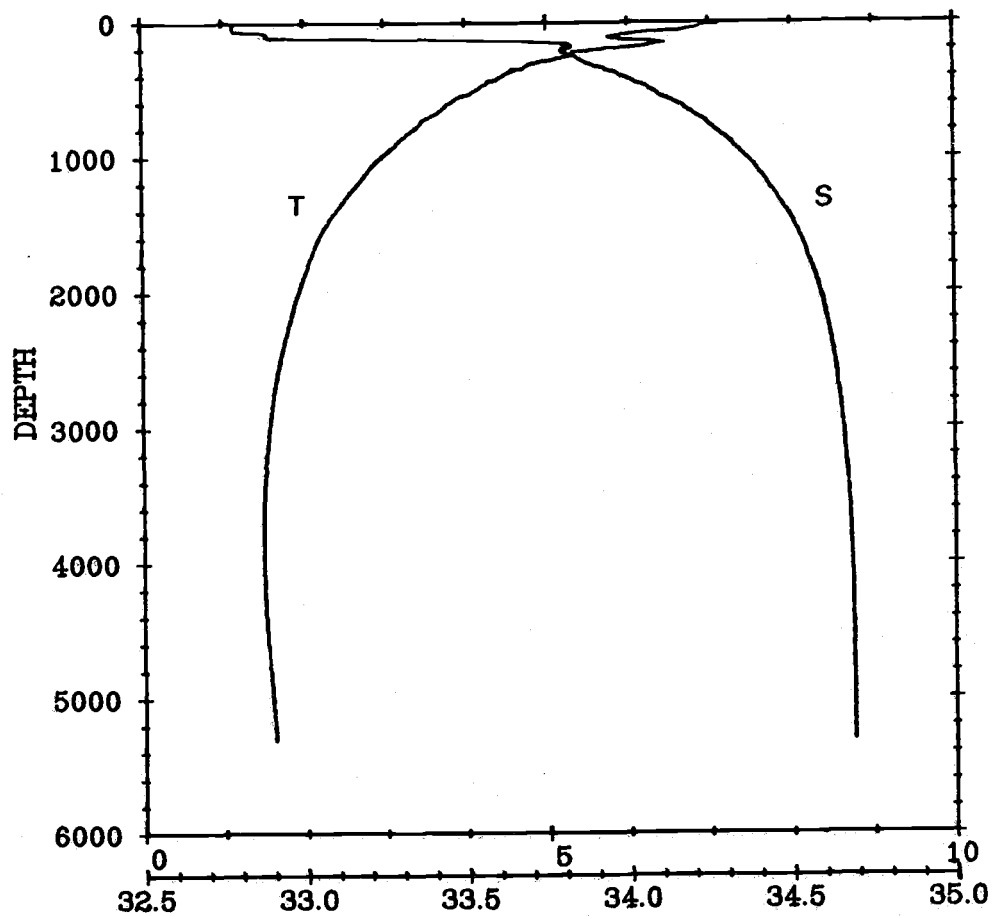
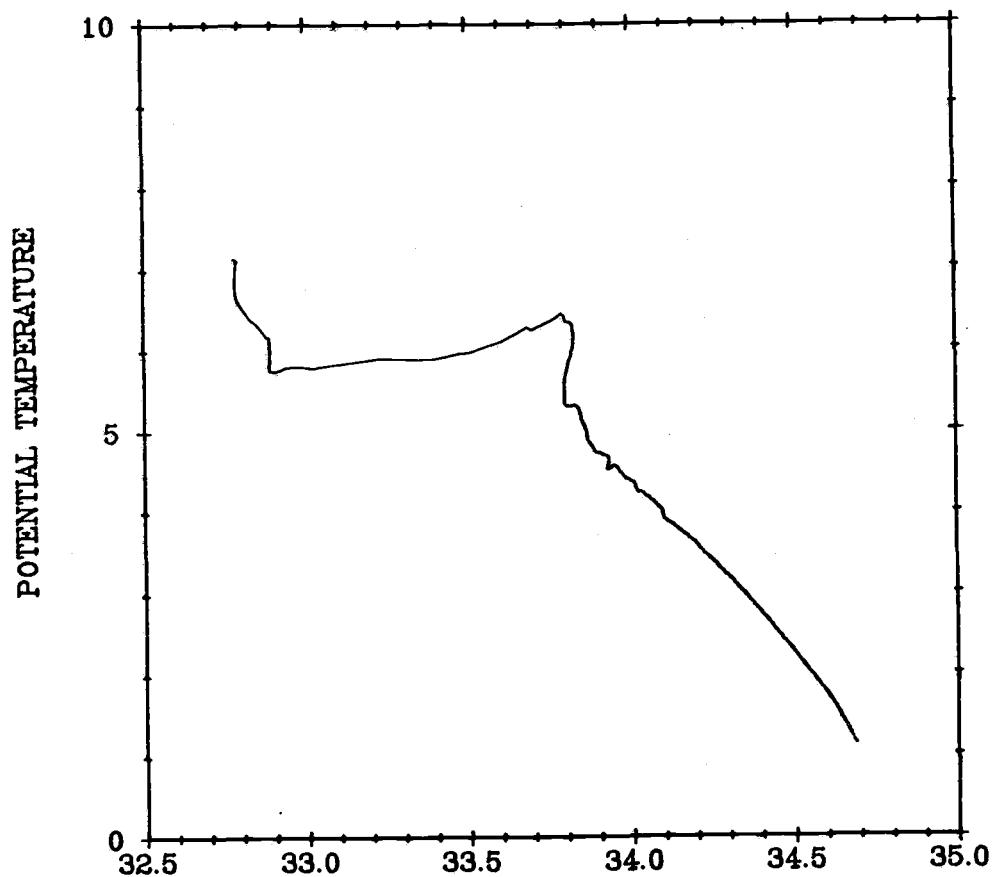


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	HB
45 39.9N	152 0.6W	5/26/84	518	5374	170	20	6.7	6.7	1019.6

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP	DEG C				CL/TON		M
DB	DEG C	DEG C						
0	7.130	32.785	7.130	25.657	34.628	43.203	232.284	0.000
20	7.038	32.785	7.036	25.670	34.645	43.224	231.367	0.046
40	6.859	32.784	6.855	25.693	34.677	43.254	229.420	0.092
60	6.672	32.791	6.667	25.723	34.716	43.311	226.794	0.138
80	6.202	32.870	6.195	25.846	34.860	43.475	215.349	0.182
100	5.896	32.989	5.888	25.899	34.928	43.557	210.504	0.225
150	6.331	33.731	6.318	26.510	35.505	44.192	153.392	0.316
200	5.739	33.803	5.723	26.641	35.564	44.287	141.369	0.390
250	5.284	33.838	5.274	26.723	35.767	44.410	134.058	0.458
300	4.896	33.873	4.873	26.796	35.860	44.522	127.395	0.524
350	4.626	33.932	4.600	26.873	35.950	44.624	120.439	0.586
400	4.461	33.983	4.431	26.932	36.017	44.698	115.261	0.645
450	4.276	34.029	4.243	26.989	36.082	44.771	110.232	0.701
500	4.147	34.074	4.111	27.038	36.138	44.833	105.890	0.755
600	3.813	34.153	3.771	27.136	36.252	44.962	97.174	0.857
700	3.584	34.217	3.535	27.210	36.337	45.059	90.689	0.950
800	3.360	34.271	3.305	27.275	36.414	45.145	84.963	1.038
900	3.157	34.322	3.096	27.335	36.484	45.225	79.648	1.121
1000	2.970	34.365	2.903	27.387	36.546	45.295	75.060	1.198
1100	2.808	34.400	2.734	27.430	36.597	45.355	71.297	1.271
1200	2.672	34.430	2.592	27.466	36.641	45.405	68.149	1.341
1300	2.532	34.460	2.445	27.503	36.684	45.456	64.919	1.407
1400	2.411	34.487	2.319	27.535	36.723	45.501	62.083	1.471
1500	2.291	34.510	2.191	27.564	36.758	45.542	59.518	1.532
1600	2.193	34.530	2.087	27.588	36.788	45.577	57.388	1.590
1700	2.117	34.547	2.004	27.609	36.813	45.606	55.701	1.647
1800	2.055	34.560	1.934	27.624	36.832	45.629	54.445	1.702
1900	1.989	34.575	1.861	27.642	36.854	45.654	52.972	1.756
2000	1.933	34.587	1.793	27.657	36.872	45.675	51.815	1.808
2100	1.879	34.599	1.736	27.673	36.888	45.695	50.735	1.859
2200	1.837	34.606	1.686	27.680	36.901	45.710	50.001	1.910
2300	1.787	34.616	1.628	27.693	36.917	45.728	49.004	1.959
2400	1.747	34.623	1.580	27.702	36.928	45.742	48.333	2.008
2500	1.707	34.630	1.532	27.711	36.940	45.756	47.647	2.056
2600	1.669	34.636	1.486	27.719	36.951	45.769	47.042	2.103
2700	1.638	34.641	1.446	27.726	36.960	45.780	46.587	2.150
2800	1.611	34.647	1.411	27.733	36.969	45.791	46.102	2.196
2900	1.588	34.651	1.379	27.739	36.976	45.800	45.803	2.242
3000	1.566	34.655	1.348	27.744	36.983	45.809	45.507	2.288
3100	1.547	34.659	1.320	27.749	36.990	45.817	45.245	2.333
3200	1.531	34.662	1.294	27.754	36.995	45.824	45.088	2.378
3300	1.518	34.666	1.272	27.758	37.001	45.831	44.895	2.423
3400	1.503	34.668	1.247	27.762	37.006	45.837	44.809	2.468
3500	1.492	34.671	1.226	27.766	37.011	45.843	44.705	2.513
3600	1.483	34.674	1.207	27.769	37.016	45.849	44.624	2.558
3700	1.478	34.676	1.192	27.772	37.020	45.853	44.671	2.602
3800	1.476	34.677	1.179	27.774	37.022	45.856	44.832	2.647
3900	1.476	34.679	1.169	27.776	37.025	45.859	44.950	2.692
4000	1.478	34.680	1.160	27.777	37.027	45.862	45.170	2.737
4100	1.481	34.681	1.152	27.779	37.028	45.864	45.404	2.782
4200	1.485	34.682	1.144	27.780	37.030	45.866	45.654	2.828
4300	1.491	34.683	1.139	27.781	37.032	45.868	45.937	2.874
4400	1.499	34.684	1.135	27.782	37.033	45.869	46.254	2.920
4500	1.508	34.685	1.133	27.783	37.034	45.870	46.589	2.966
4600	1.518	34.685	1.131	27.783	37.034	45.871	47.012	3.013
4700	1.529	34.685	1.130	27.784	37.034	45.871	47.455	3.060
4800	1.540	34.686	1.128	27.784	37.035	45.872	47.830	3.108
4900	1.551	34.686	1.127	27.785	37.035	45.872	48.277	3.156
5000	1.563	34.686	1.127	27.785	37.036	45.872	48.744	3.204
5100	1.574	34.687	1.125	27.785	37.036	45.873	49.126	3.253
5200	1.587	34.687	1.125	27.786	37.036	45.873	49.616	3.303
5300	1.600	34.687	1.125	27.786	37.036	45.873	50.108	3.353
5400	1.613	34.687	1.125	27.786	37.036	45.873	50.604	3.403
5414	1.615	34.687	1.125	27.786	37.036	45.873	50.677	3.410

NISKIN BOTTLE DATA									
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN
1	7.098	32.783	7.14	104.4	18.9	1.16	11.2	0.10	7.098
49	6.796	32.784	7.16	103.9	18.9	1.17	11.3	0.10	6.792
94	5.814	32.844	7.09	100.6	19.7	1.26	12.8	0.21	5.806
149	6.058	33.596	5.86	84.0	29.2	1.49	19.4	0.01	6.045
198	5.879	33.821	4.97	71.0	41.8	1.75	24.2	0.00	5.862
291	5.002	33.869	3.25	45.5	63.4	2.29	32.4	0.00	4.979
397	4.485	33.994	1.94	26.8	86.8	2.70	38.4	0.00	4.455
498	4.136	34.080	1.41	19.3	101.3	2.85	40.9	0.00	4.100
600	3.797	34.162	0.99	13.5	115.6	2.97	42.6	0.00	3.754
700	3.569	34.224	0.82	11.1	125.2		43.5	0.00	3.520
799	3.324	34.281	0.66	8.9	133.9	3.09	44.1	0.00	3.269
900	3.134	34.330	0.51	6.8	142.6	3.11	44.8	0.00	3.072
997	2.943	34.373	0.40	5.3	150.8	3.16	45.3	0.00	2.875
1246	2.589	34.449	0.35	4.6	164.6	3.18	45.9	0.00	2.505
1494	2.294	34.513	0.55	7.2	174.3	3.14	45.6	0.00	2.194
1743	2.081	34.558	0.86	11.2	180.5	3.07	44.8	0.00	1.963
1974	1.930	34.591	1.24	16.1	183.1	3.01	43.7	0.00	1.795
2495	1.689	34.635	2.01	25.9	182.6	2.88	41.7	0.00	1.512
2986	1.563	34.658	2.60	33.4	178.3	2.76	40.0	0.00	1.342
3485	1.489	34.674	3.01	38.6	172.0	2.65	38.5	0.00	1.219
3976	1.478	34.683	3.31	42.3	171.4	2.60	37.9	0.00	1.155
4472	1.513	34.686	3.37	43.1	174.2		37.8	0.00	1.132
4989	1.573	34.687	3.40	43.4	176.2		37.7	0.00	1.126
5305	1.615	34.688	3.40	43.4	176.0	2.58	37.6	0.00	1.126

MARATHON 2 STA. 67

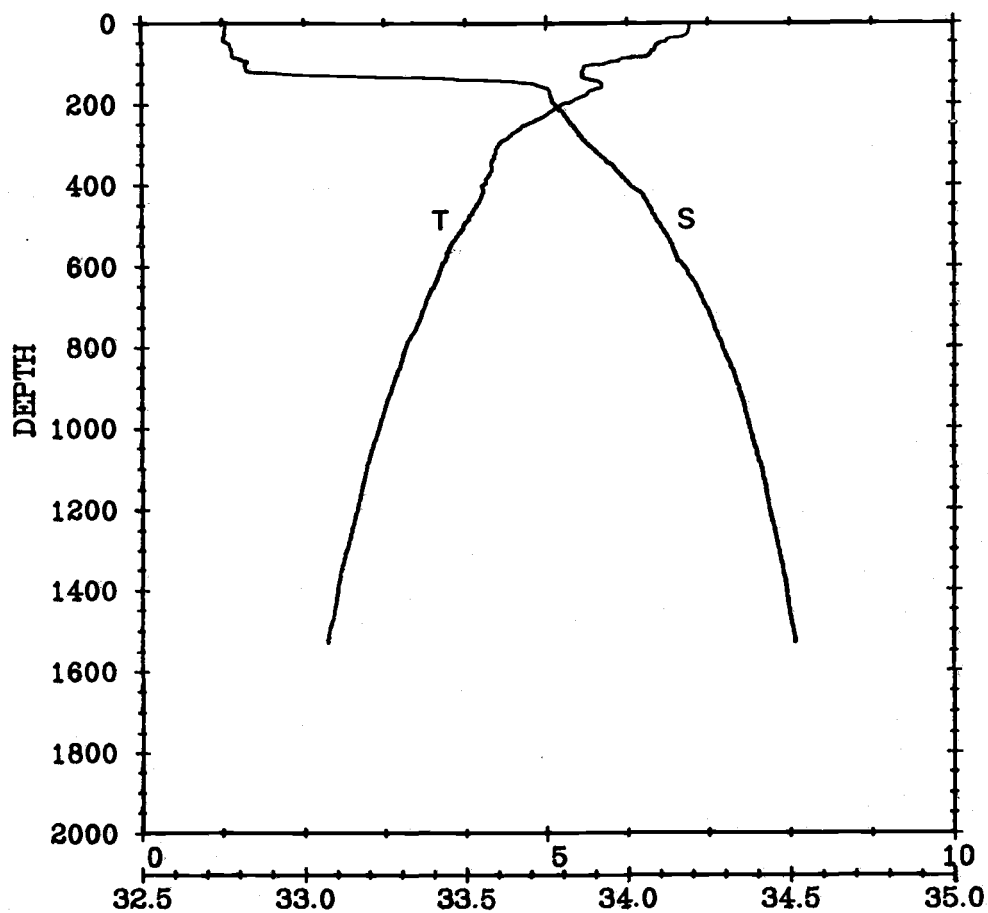
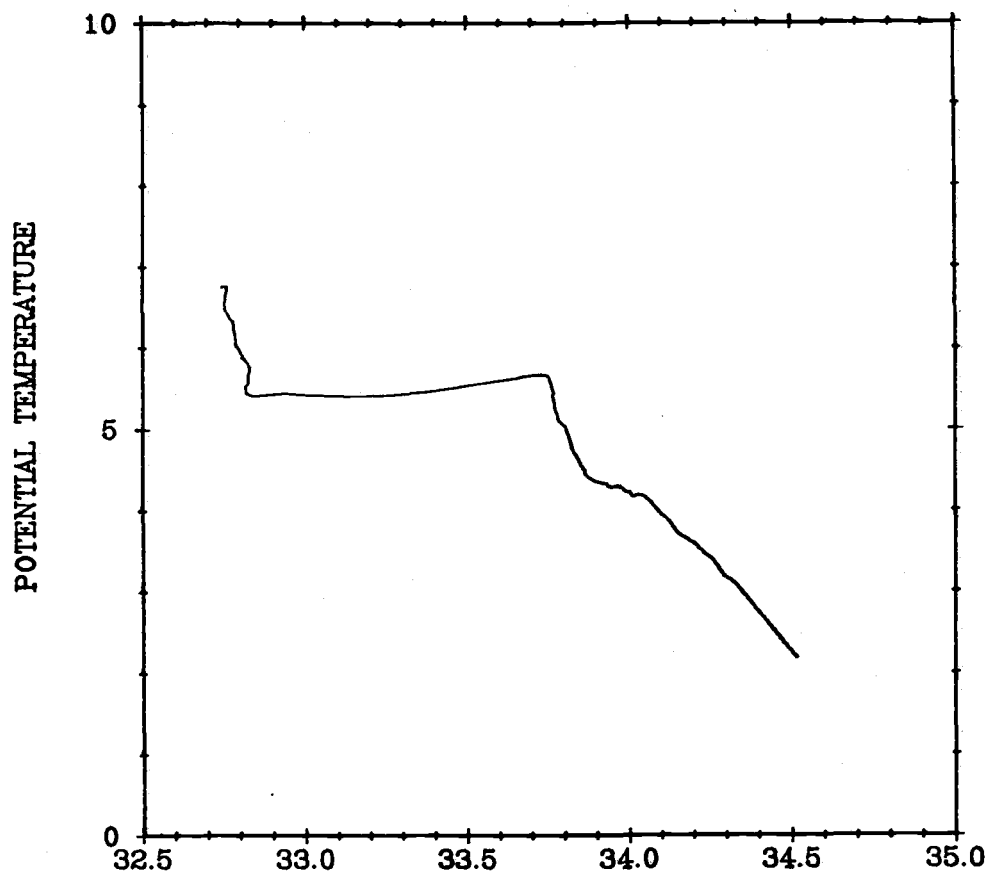


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
46 7.3N	151 59.9W	5/26/84	1118	5322	180	12	7.9	7.2	1018.6

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	6.768	32.756	25.682	34.671	43.262	229.864	0.000	0
20	6.752	32.759	25.687	34.676	43.268	229.591	0.046	19
40	6.557	32.756	25.710	34.709	43.310	227.740	0.092	39
60	6.345	32.774	25.752	34.760	43.370	224.036	0.137	59
80	6.190	32.782	25.778	34.794	43.411	221.794	0.181	79
100	5.707	32.817	25.865	34.904	43.542	213.697	0.225	99
150	5.648	33.658	25.537	35.567	44.196	150.551	0.316	148
200	5.230	33.775	25.214	35.728	44.375	137.493	0.388	198
250	4.771	33.827	24.752	35.844	44.512	129.943	0.455	248
300	4.417	33.879	24.395	35.941	44.626	121.648	0.517	297
350	4.317	33.948	24.292	36.011	44.700	115.850	0.577	347
400	4.225	34.006	24.196	36.072	44.763	110.955	0.633	396
450	4.138	34.064	24.106	36.131	44.826	106.103	0.688	446
500	3.982	34.099	23.946	36.183	44.885	102.225	0.740	495
600	3.705	34.167	23.663	36.279	44.994	94.963	0.838	594
700	3.487	34.237	23.439	36.367	45.092	88.151	0.930	693
800	3.258	34.289	23.204	36.442	45.178	82.524	1.015	792
900	3.091	34.339	23.030	36.507	45.251	77.671	1.095	891
1000	2.934	34.373	22.857	36.557	45.308	74.076	1.171	990
1100	2.775	34.407	22.702	36.607	45.367	70.418	1.243	1089
1200	2.659	34.432	22.579	36.644	45.409	67.858	1.313	1187
1300	2.533	34.458	22.446	36.683	45.454	65.079	1.379	1286
1400	2.411	34.485	22.318	36.722	45.499	62.231	1.443	1385
1500	2.324	34.504	22.224	36.749	45.532	60.334	1.504	1483
1548	2.277	34.514	22.174	36.764	45.549	59.288	1.533	1530

NISKIN BOTTLE DATA												SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C					
2	6.745	32.763	7.20	104.4	20.5	1.22	12.2	0.12		6.745	25.591	34.680	43.272	2	
43	6.420	32.761	7.28	104.7	20.7	1.23	12.3	0.12		6.416	25.732	34.737	43.344	43	
101	5.439	32.816	7.13	100.2	21.2	1.32	13.7	0.18		5.431	25.895	34.948	43.599	101	
129	5.510	33.439	5.93	83.8	31.3	1.60	20.7	0.02		5.500	26.380	35.419	44.058	129	
165	5.512	33.763	5.10	72.2	42.1	1.80	24.7	0.01		5.499	26.636	35.671	44.305	166	
201	5.115	33.785	4.50	61.1	50.5	1.99	27.8	0.01		5.099	26.701	35.755	44.407	202	
251	4.696	33.836	3.23	44.9	66.4	2.37	33.5	0.01		4.677	26.789	35.863	44.534	252	
298	4.430	33.878	2.54	35.1	74.7	2.57	36.6	0.01		4.408	26.851	35.938	44.622	300	
404	4.253	34.005	1.73	23.8	91.9	2.78	39.8	0.01		4.224	26.971	36.066	44.757	407	
490	3.971	34.102	1.22	16.7	106.4	2.92	41.7	0.00		3.936	27.078	36.187	44.889	494	
597	3.692	34.172	0.93	12.6	117.4	2.98	42.8	0.00		3.650	27.163	36.284	45.000	602	
695	3.486	34.239	0.77	10.4	127.7	3.04	43.5	0.00		3.438	27.237	36.369	45.094	701	
796	3.279	34.284	0.67	9.0	136.0	3.07	43.8	0.00		3.224	27.293	36.435	45.170	803	
892	3.108	34.335	0.51	6.8	142.5	3.11	44.6	0.00		3.047	27.350	36.501	45.244	900	
1001	2.920	34.375	0.44	5.9	149.9	3.13	44.9	0.00		2.852	27.399	36.560	45.313	1010	
1240	2.595	34.445	0.39	5.2	162.8		45.4	0.00		2.512	27.485	36.663	45.432	1252	
1530	2.275	34.514	0.60	7.9	174.8		45.1	0.00		2.172	27.568	36.764	45.549	1547	

MARATHON 2 STA. 68

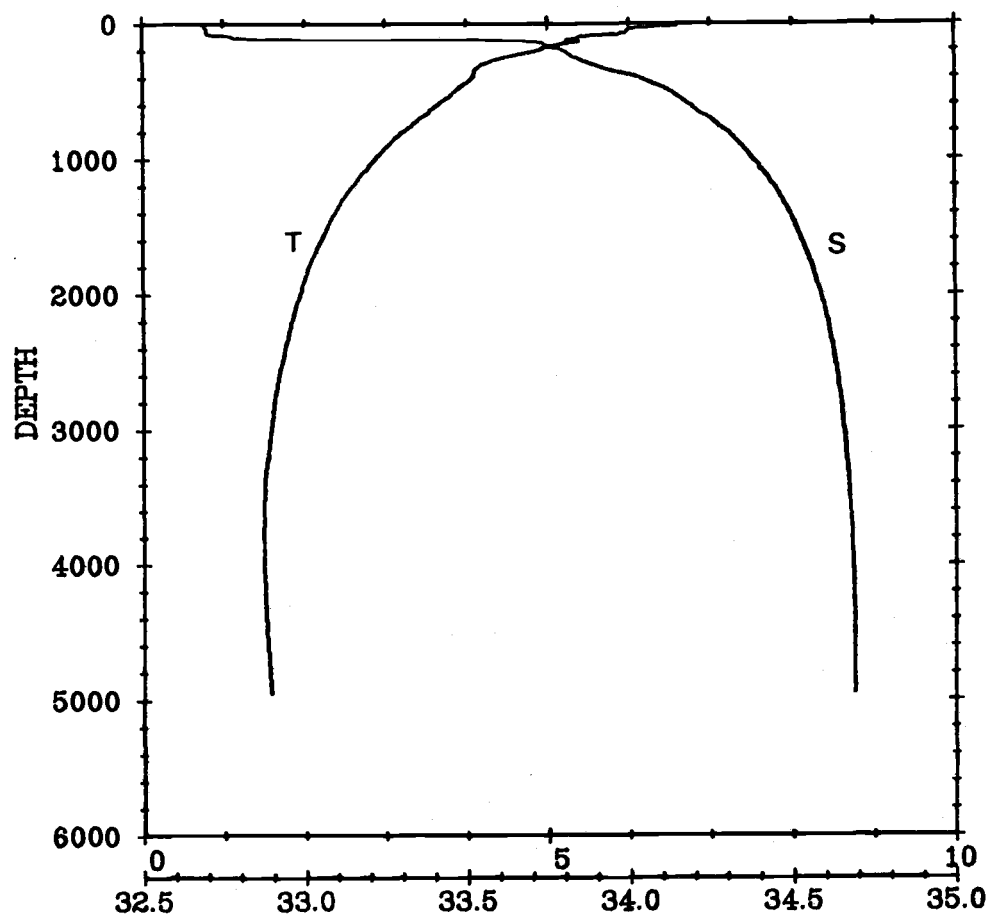
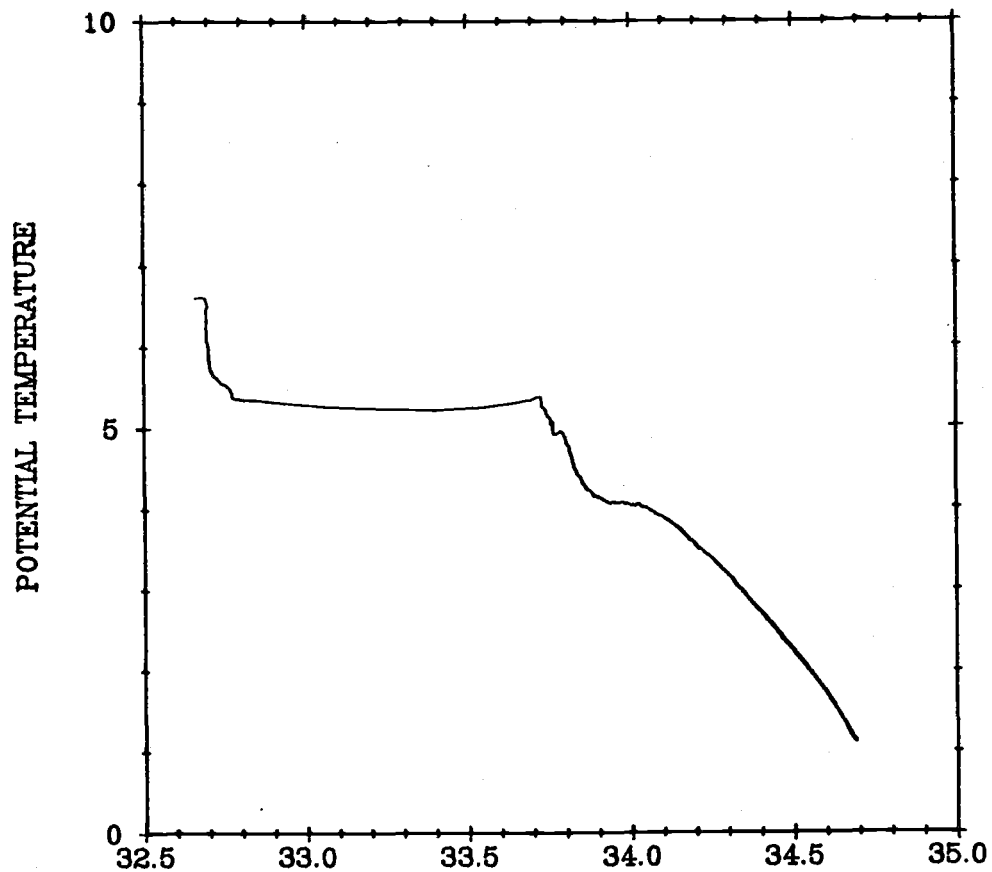


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	SAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
46 34.7N	151 59.0W	5/26/84	1730	4854	210	12	7.2	7.2	1016.5

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.606	32.682	6.606	25.645	34.643	43.242	233.401	0.000	0
20	6.531	32.693	6.529	25.664	34.665	43.267	231.898	0.047	19
40	6.074	32.698	6.071	25.725	34.748	43.372	226.258	0.092	39
60	5.966	32.701	5.961	25.741	34.769	43.398	224.983	0.137	59
80	5.773	32.714	5.767	25.775	34.813	43.450	221.975	0.182	79
100	5.404	32.781	5.396	25.872	34.926	43.580	212.951	0.226	99
150	5.205	33.738	5.193	26.653	35.703	44.351	139.447	0.314	148
200	4.881	33.797	4.866	26.737	35.802	44.465	131.914	0.382	198
250	4.485	33.832	4.467	26.808	35.893	44.575	125.448	0.446	248
300	4.214	33.879	4.193	26.875	35.973	44.667	119.479	0.507	297
350	4.098	33.943	4.073	26.938	36.042	44.740	113.883	0.566	347
400	4.070	34.024	4.042	27.006	36.110	44.809	107.942	0.621	396
450	3.973	34.073	3.941	27.055	36.163	44.866	103.658	0.674	446
500	3.865	34.122	3.830	27.105	36.219	44.926	99.249	0.725	495
600	3.655	34.181	3.613	27.174	36.297	45.015	93.382	0.821	594
700	3.441	34.244	3.393	27.245	36.379	45.107	87.136	0.911	693
800	3.239	34.297	3.185	27.307	36.452	45.188	81.724	0.995	792
900	3.042	34.341	2.982	27.361	36.515	45.262	76.995	1.075	891
1000	2.879	34.377	2.812	27.405	36.569	45.322	73.194	1.150	990
1100	2.737	34.411	2.664	27.445	36.615	45.377	69.708	1.221	1089
1200	2.606	34.440	2.526	27.480	36.657	45.425	66.684	1.290	1187
1300	2.475	34.467	2.389	27.513	36.698	45.472	63.770	1.355	1286
1400	2.375	34.489	2.282	27.540	36.729	45.509	61.533	1.418	1385
1500	2.287	34.508	2.188	27.563	36.757	45.541	59.620	1.478	1483
1600	2.211	34.525	2.105	27.583	36.782	45.570	57.962	1.537	1582
1700	2.126	34.544	2.013	27.605	36.809	45.602	56.026	1.594	1680
1800	2.053	34.560	1.932	27.625	36.833	45.629	54.421	1.649	1779
1900	1.996	34.572	1.868	27.639	36.850	45.650	53.275	1.703	1877
2000	1.939	34.584	1.804	27.654	36.868	45.671	52.107	1.756	1975
2100	1.880	34.596	1.737	27.668	36.887	45.693	50.893	1.807	2074
2200	1.835	34.605	1.684	27.680	36.901	45.709	50.049	1.858	2172
2300	1.794	34.613	1.635	27.690	36.913	45.724	49.311	1.907	2270
2400	1.751	34.621	1.584	27.700	36.926	45.740	48.530	1.956	2368
2500	1.719	34.627	1.544	27.708	36.936	45.752	48.020	2.005	2466
2600	1.675	34.634	1.492	27.717	36.948	45.767	47.266	2.052	2564
2700	1.646	34.640	1.454	27.724	36.958	45.778	46.766	2.099	2662
2800	1.614	34.645	1.414	27.732	36.967	45.789	46.286	2.146	2760
2900	1.593	34.650	1.384	27.738	36.975	45.799	45.943	2.192	2858
3000	1.576	34.653	1.358	27.742	36.980	45.805	45.790	2.238	2955
3100	1.552	34.658	1.324	27.748	36.989	45.815	45.387	2.283	3054
3200	1.537	34.661	1.300	27.752	36.994	45.822	45.245	2.329	3152
3300	1.512	34.666	1.265	27.759	37.002	45.832	44.808	2.374	3249
3400	1.494	34.669	1.238	27.763	37.008	45.839	44.606	2.418	3347
3500	1.487	34.671	1.221	27.766	37.012	45.844	44.630	2.463	3445
3600	1.481	34.673	1.205	27.769	37.016	45.848	44.665	2.503	3542
3700	1.474	34.676	1.188	27.772	37.020	45.854	44.610	2.552	3640
3800	1.471	34.677	1.174	27.774	37.022	45.857	44.754	2.597	3739
3900	1.474	34.679	1.167	27.776	37.025	45.860	44.919	2.642	3835
4000	1.476	34.680	1.158	27.778	37.027	45.862	45.138	2.687	3932
4100	1.480	34.681	1.151	27.779	37.028	45.864	45.388	2.732	4030
4200	1.483	34.683	1.142	27.781	37.031	45.867	45.552	2.778	4127
4300	1.489	34.684	1.137	27.782	37.032	45.869	45.834	2.823	4225
4400	1.497	34.685	1.134	27.783	37.034	45.870	46.150	2.869	4322
4500	1.506	34.685	1.131	27.783	37.034	45.871	46.555	2.916	4419
4600	1.514	34.686	1.127	27.784	37.035	45.872	46.874	2.962	4516
4700	1.525	34.686	1.126	27.785	37.036	45.872	47.316	3.009	4613
4800	1.536	34.686	1.125	27.785	37.036	45.873	47.751	3.057	4711
4900	1.546	34.687	1.122	27.786	37.037	45.874	48.120	3.105	4808
5000	1.558	34.687	1.122	27.786	37.037	45.874	48.586	3.153	4905
5046	1.563	34.687	1.121	27.786	37.037	45.874	48.792	3.176	4949

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	6.708	32.699	7.25	104.9	20.9	1.27	12.5	0.12		6.708	25.645	34.637	43.232	1
18	6.613	32.698	7.27	105.0	21.2		12.5	0.12		6.611	25.657	34.654	43.253	18
45	6.000	32.703	7.35	104.6	21.2		12.8	0.11		5.996	25.738	34.765	43.392	45
99	5.274	32.759	7.12	99.6	22.1		14.2	0.12		5.266	25.869	34.930	43.590	98
145	5.372	33.756	5.02	70.9	42.5		25.2	0.01		4.904	26.647	35.689	44.329	145
185	4.918	33.775	5.10	71.2	51.2		28.6	0.01		4.203	26.874	35.972	44.440	186
296	4.224	33.880	2.31	31.7	78.4	2.66	37.8	0.01		4.037	26.994	36.099	44.798	298
396	4.065	34.009	1.52	20.8	94.7	2.87	40.8	0.01		3.775	27.110	36.227	44.937	399
497	3.810	34.122	1.03	14.0	109.4	2.95	42.4	0.00		3.574	27.187	36.312	45.032	501
594	3.615	34.193	0.84	11.4	119.3	3.01	43.2	0.00		3.350	27.260	36.396	45.125	596
690	3.398	34.257	0.69	9.3	130.8	3.02	43.7	0.00		3.148	27.320	36.466	45.205	794
787	3.202	34.309	0.57	7.6	139.0	3.08	44.3	0.00		2.946	27.374	36.530	45.278	899
891	3.005	34.353	0.51	6.8	146.7	3.12	44.5	0.00		2.795	27.412	36.575	45.330	1002
993	2.862	34.384	0.45	6.1	153.1	3.13	44.8	0.00		2.435	27.506	36.688	45.460	1260
1247	2.518	34.463	0.44	5.8	166.2	3.15	45.2	0.00		2.212	27.561	36.754	45.537	1484
1468	2.310	34.508	0.56	7.4	173.8	3.12	45.1	0.00		1.988	27.615	36.819	45.613	1728
1709	2.103	34.553	0.85	11.1	180.0	3.06	44.4	0.00		1.802	27.656	36.871	45.673	2025
2001	1.940	34.587	1.19	15.5	184.2	2.99	43.5	0.00		1.525	27.713	36.942	45.759	2566
2532	1.706	34.632	1.97	25.4	183.9	2.87	41.4	0.00		1.319	27.751	36.991	45.818	3146
3100	1.551	34.661	2.70	34.7	175.3	2.70	39.3	0.00		1.201	27.771	37.018	45.851	3633
3576	1.480	34.676	3.15	40.3	170.8	2.61	38.0	0.00		1.147	27.781	37.030	45.866	4153
4082	1.482	34.683	3.30	42.2	170.3		37.5	0.00		1.126	27.785	37.036	45.873	4701
4615	1.525	34.687	3.38	43.2	175.7		37.4	0.00		1.121	27.786	37.037	45.875	5045
4949	1.563	34.688	3.43	43.8	174.4	2.54	37.3	0.00						

MARATHON 2 STA. 69



R/V THOMAS WASHINGTON MARATHON LEG II STATION 70

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
47 2.3N	151 59.6W	5/26/84	2348	5206	DIR	KT	DEG C	DEG C	MB
			GMT	M					
					200	13	10.0	5.6	1016.9

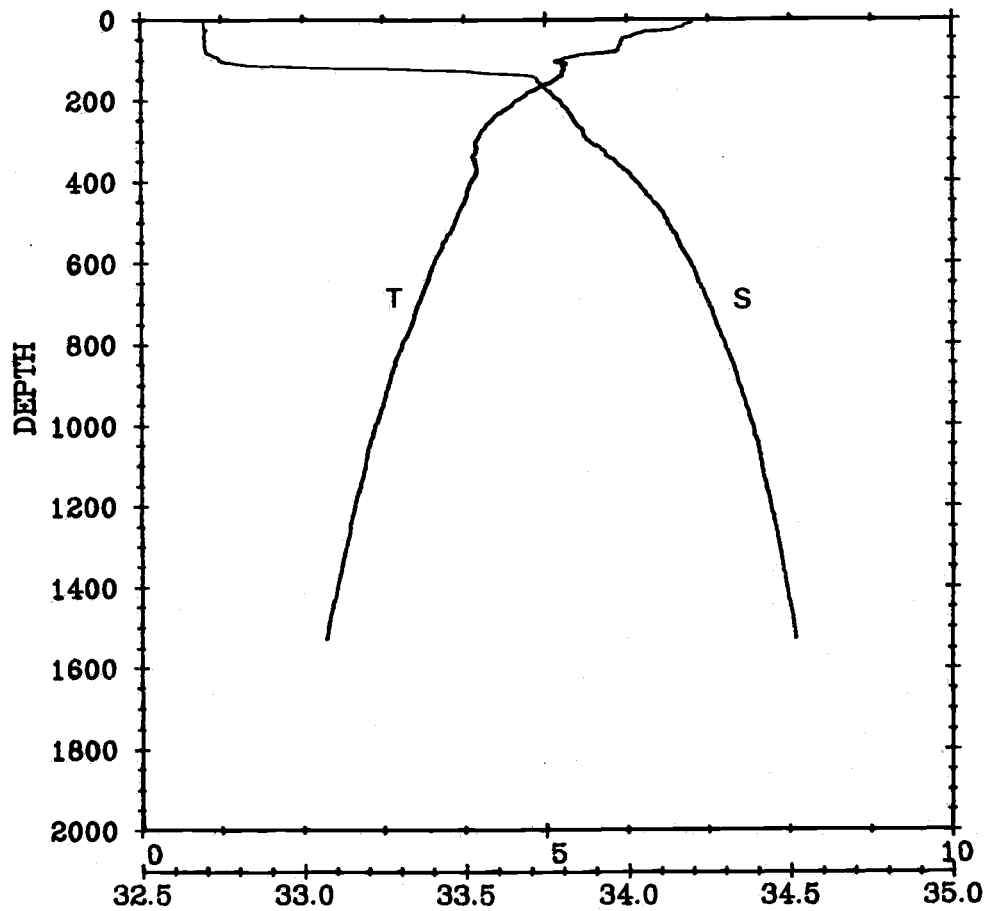
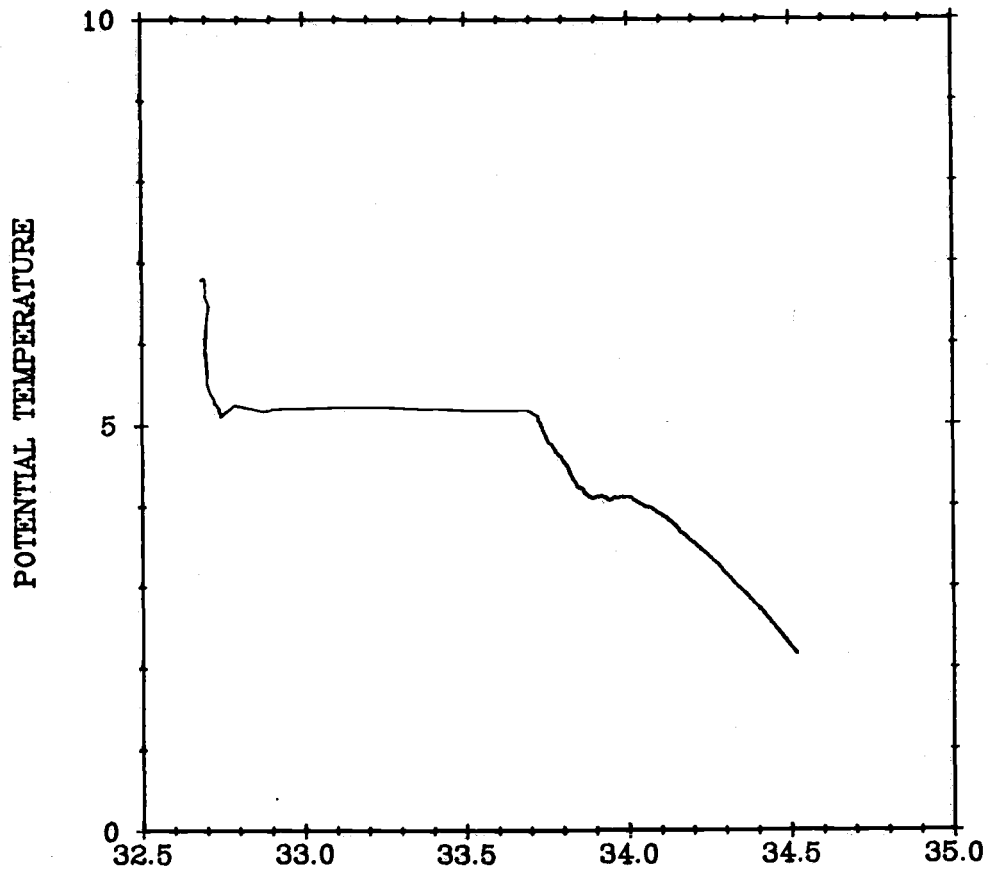
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.793	32.693	6.793	25.630	34.618	43.209	234.894	0.000	0
20	6.589	32.699	6.587	25.661	34.659	43.259	232.161	0.047	19
40	6.078	32.699	6.075	25.726	34.749	43.372	226.230	0.093	39
60	5.907	32.698	5.902	25.746	34.777	43.408	224.513	0.138	59
80	5.729	32.705	5.723	25.773	34.813	43.452	222.143	0.182	79
100	5.223	32.747	5.215	25.865	34.930	43.592	213.495	0.226	99
150	5.099	33.717	5.088	26.648	35.704	44.358	139.828	0.314	148
200	4.648	33.787	4.633	26.755	35.832	44.506	130.114	0.382	198
250	4.323	33.837	4.305	26.830	35.923	44.612	123.346	0.445	248
300	4.147	33.881	4.126	26.883	35.985	44.682	118.624	0.506	297
350	4.118	33.956	4.093	26.946	36.048	44.746	113.120	0.563	347
400	4.082	34.024	4.054	27.004	36.109	44.806	108.070	0.619	396
450	3.989	34.075	3.957	27.055	36.162	44.865	103.679	0.672	446
500	3.874	34.120	3.839	27.103	36.216	44.923	99.494	0.722	495
600	3.618	34.191	3.577	27.185	36.311	45.030	92.241	0.818	594
700	3.430	34.246	3.382	27.248	36.383	45.111	86.870	0.908	693
800	3.233	34.296	3.179	27.307	36.452	45.189	81.734	0.992	792
900	3.055	34.338	2.994	27.357	36.511	45.257	77.357	1.072	891
1000	2.905	34.379	2.838	27.404	36.566	45.319	73.316	1.147	990
1100	2.765	34.410	2.692	27.442	36.611	45.371	70.086	1.219	1089
1200	2.639	34.438	2.559	27.475	36.651	45.417	67.194	1.287	1187
1300	2.527	34.462	2.441	27.505	36.686	45.458	64.715	1.353	1286
1400	2.420	34.485	2.327	27.533	36.720	45.498	62.332	1.417	1384
1500	2.309	34.509	2.209	27.562	36.755	45.538	59.795	1.478	1483
1546	2.272	34.518	2.169	27.572	36.768	45.553	58.927	1.505	1528

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
3	6.937	32.701	7.30	106.0	21.0	1.27	12.8	0.11		6.837	25.630	34.616	43.205	3
51	5.937	32.700	7.33	104.2	20.9	1.30	13.3	0.10		5.933	25.744	34.773	43.403	51
97	5.152	32.743	7.13	99.5	21.6	1.39	14.6	0.12		5.145	25.870	34.938	43.604	97
126	5.198	33.454	5.74	80.5	33.3	1.72	22.4	0.04		5.198	26.428	35.483	44.136	126
161	4.933	33.740	4.77	66.6	45.4	1.98	27.2	0.01		4.921	26.685	35.749	44.410	162
197	4.664	33.791	3.86	53.6	55.6	2.24	31.2	0.00		4.649	26.748	35.824	44.498	198
247	4.339	33.835	2.83	39.0	67.8	2.54	35.6	0.00		4.321	26.826	35.919	44.607	248
297	4.121	33.890	2.13	29.2	80.2	2.73	38.6	0.01		4.100	26.893	35.996	44.694	299
395	4.078	34.026	1.47	20.1	95.4	2.89	40.8	0.00		4.050	27.006	36.110	44.808	398
500	3.874	34.122	1.11	15.1	108.3	2.97	42.1	0.00		3.839	27.104	36.217	44.924	504
588	3.634	34.187	0.85	11.5	119.0	3.03	43.0	0.00		3.593	27.180	36.305	45.023	593
687	3.431	34.248	0.72	9.7	125.4	3.07	43.5	0.00		3.384	27.249	36.384	45.112	692
803	3.199	34.305	0.60	8.1	135.6	3.11	44.0	0.00		3.144	27.317	36.463	45.202	810
898	3.040	34.344	0.52	7.0	140.0	3.13	44.4	0.00		2.979	27.363	36.518	45.264	906
998	2.874	34.388	0.37	4.9	151.5	3.16	45.0	0.00		2.807	27.414	36.577	45.331	1007
1241	2.571	34.455	0.34	4.5	163.2		45.4	0.00		2.488	27.495	36.674	45.444	1254
1528	2.271	34.519	0.61	8.0	173.7		45.0	0.00		2.168	27.573	36.768	45.553	1545

MARATHON 2 STA. 70



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
47 34.2N	151 59.8W	5/27/84	554	5009	210	18	7.8	6.1	1014.6

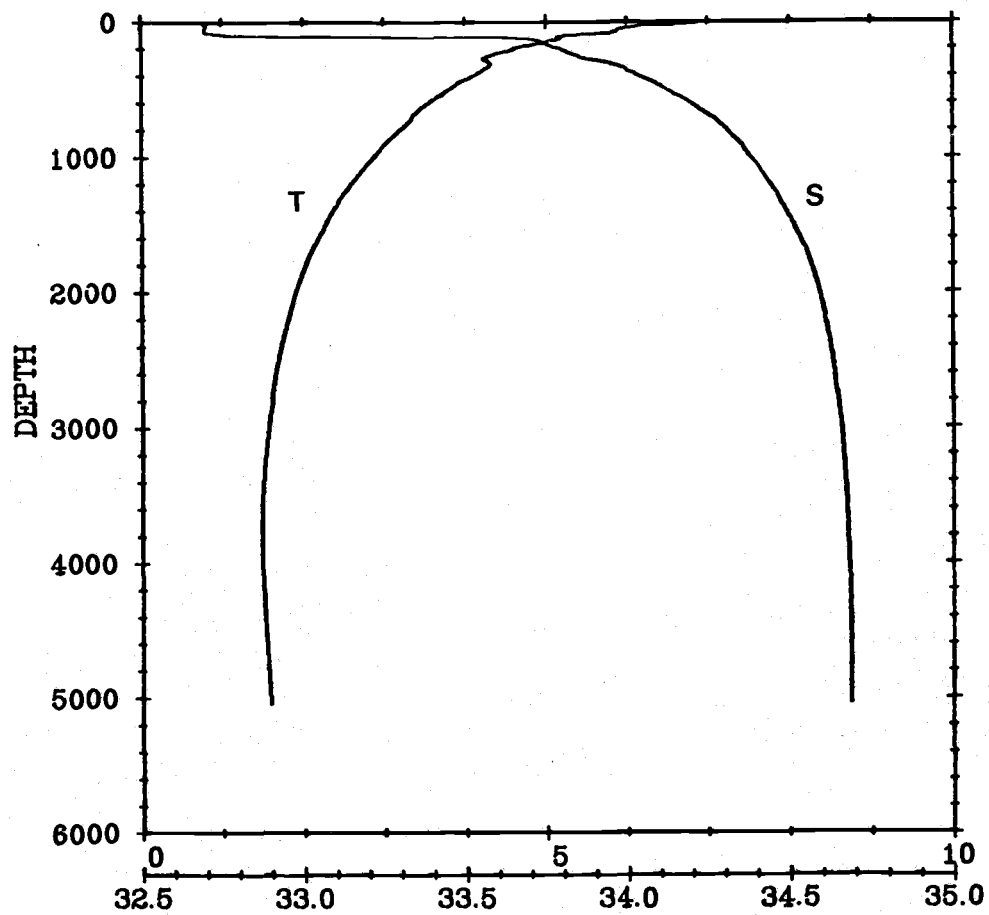
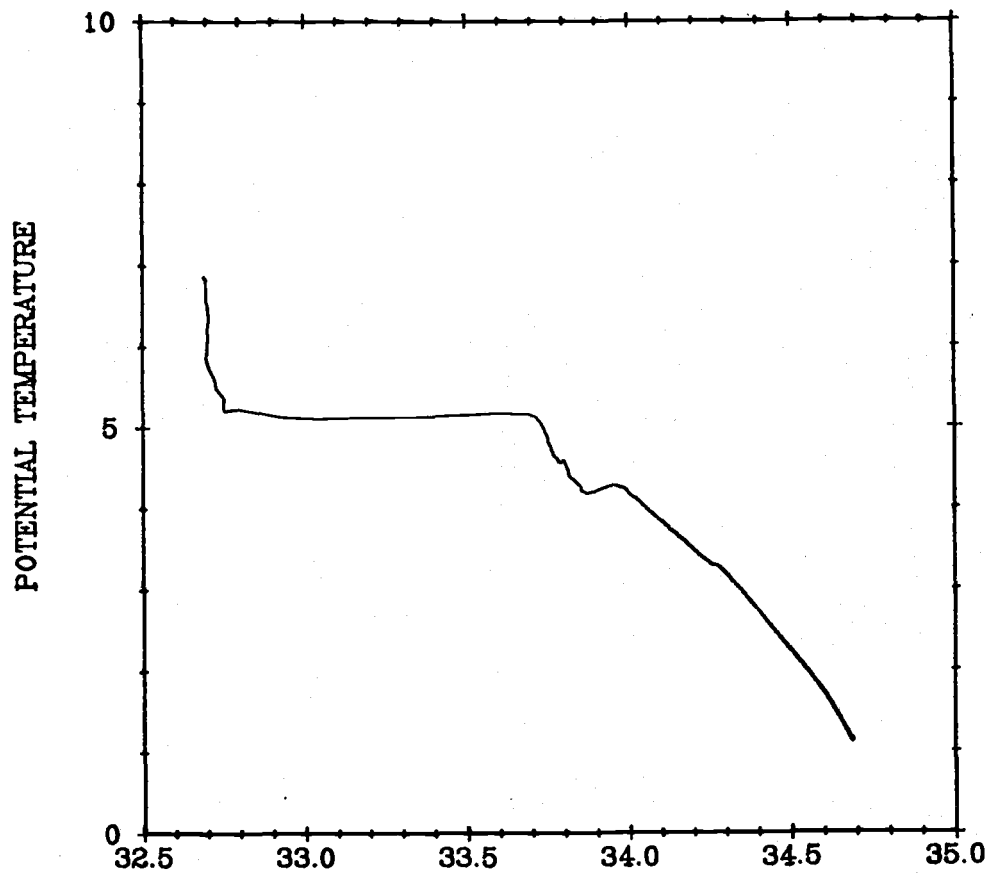
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.860	32.691	5.860	25.619	34.604	43.192	235.884	0.000	0
20	6.616	32.697	6.614	25.656	34.653	43.251	232.644	0.047	19
40	6.090	32.702	6.087	25.727	34.749	43.371	226.148	0.093	39
60	5.901	32.698	5.896	25.747	34.778	43.410	224.448	0.138	59
80	5.900	32.703	5.794	25.763	34.800	43.436	223.112	0.183	79
100	5.355	32.768	5.347	25.867	34.925	43.580	213.379	0.226	99
150	5.017	33.734	5.006	25.671	35.711	44.388	137.639	0.314	148
200	4.608	33.785	4.593	26.757	35.837	44.513	129.232	0.381	198
250	4.322	33.841	4.304	26.833	35.926	44.615	123.035	0.444	248
300	4.280	33.925	4.259	26.904	35.999	44.689	116.733	0.504	297
350	4.244	33.992	4.219	26.962	36.057	44.748	111.769	0.561	347
400	4.111	34.031	4.083	27.007	36.109	44.805	107.856	0.616	396
450	3.940	34.079	3.908	27.063	36.173	44.878	102.857	0.669	445
500	3.815	34.116	3.790	27.105	36.221	44.932	99.165	0.719	495
600	3.552	34.194	3.511	27.194	36.323	45.045	91.317	0.814	594
700	3.353	34.255	3.305	27.262	36.401	45.133	85.379	0.903	693
800	3.210	34.306	3.156	27.317	36.463	45.201	80.744	0.986	792
900	3.030	34.348	2.970	27.367	36.523	45.269	76.346	1.064	891
1000	2.885	34.379	2.818	27.406	36.568	45.323	73.100	1.139	990
1100	2.735	34.412	2.662	27.446	36.616	45.378	69.612	1.210	1088
1200	2.604	34.440	2.524	27.480	36.658	45.426	66.662	1.279	1187
1300	2.476	34.468	2.390	27.514	36.698	45.473	63.707	1.344	1286
1400	2.371	34.490	2.278	27.541	36.731	45.510	61.414	1.406	1384
1500	2.281	34.510	2.182	27.565	36.760	45.544	59.405	1.467	1483
1600	2.192	34.529	2.085	27.588	36.788	45.577	57.450	1.525	1581
1700	2.102	34.549	1.989	27.611	36.816	45.610	55.380	1.582	1690
1800	2.029	34.565	1.909	27.630	36.840	45.637	53.773	1.636	1778
1900	1.965	34.578	1.838	27.646	36.859	45.660	52.467	1.689	1877
2000	1.909	34.589	1.774	27.660	36.876	45.680	51.380	1.741	1975
2100	1.857	34.600	1.714	27.673	36.893	45.700	50.320	1.792	2073
2200	1.816	34.608	1.666	27.683	36.905	45.715	49.595	1.842	2172
2300	1.772	34.616	1.614	27.694	36.918	45.731	48.815	1.891	2270
2400	1.728	34.624	1.562	27.704	36.932	45.746	48.019	1.940	2368
2500	1.690	34.631	1.516	27.713	36.943	45.760	47.354	1.987	2466
2600	1.659	34.637	1.476	27.721	36.953	45.772	46.839	2.034	2564
2700	1.632	34.642	1.441	27.727	36.961	45.782	46.436	2.081	2662
2800	1.608	34.647	1.408	27.734	36.969	45.792	46.061	2.127	2760
2900	1.590	34.651	1.381	27.739	36.976	45.800	45.830	2.173	2858
3000	1.562	34.655	1.344	27.745	36.984	45.810	45.452	2.219	2956
3100	1.545	34.659	1.318	27.750	36.990	45.817	45.217	2.264	3054
3200	1.526	34.663	1.289	27.755	36.997	45.825	44.945	2.309	3151
3300	1.511	34.666	1.265	27.759	37.002	45.832	44.794	2.354	3249
3400	1.500	34.669	1.244	27.763	37.007	45.838	44.694	2.399	3347
3500	1.489	34.671	1.223	27.766	37.012	45.844	44.660	2.444	3444
3600	1.480	34.674	1.204	27.770	37.016	45.849	44.579	2.488	3542
3700	1.477	34.676	1.191	27.772	37.020	45.853	44.556	2.533	3640
3800	1.475	34.678	1.178	27.775	37.023	45.857	44.745	2.578	3737
3900	1.475	34.679	1.168	27.776	37.025	45.860	44.974	2.622	3835
4000	1.477	34.681	1.159	27.778	37.027	45.863	45.083	2.667	3932
4100	1.483	34.682	1.154	27.779	37.029	45.865	45.366	2.713	4030
4200	1.489	34.682	1.148	27.780	37.030	45.865	45.719	2.758	4127
4300	1.496	34.683	1.144	27.781	37.031	45.867	46.019	2.804	4224
4400	1.504	34.684	1.140	27.782	37.032	45.868	46.337	2.850	4321
4500	1.513	34.685	1.138	27.783	37.033	45.870	46.673	2.897	4419
4600	1.522	34.685	1.135	27.783	37.034	45.870	47.080	2.944	4516
4700	1.532	34.685	1.133	27.783	37.034	45.871	47.507	2.991	4613
4800	1.542	34.686	1.130	27.784	37.035	45.872	47.865	3.039	4710
4900	1.552	34.686	1.128	27.784	37.035	45.872	48.295	3.087	4807
5000	1.564	34.687	1.128	27.785	37.036	45.873	48.693	3.135	4904
5100	1.576	34.687	1.127	27.785	37.036	45.873	49.162	3.184	5001
5144	1.582	34.687	1.127	27.785	37.036	45.873	49.382	3.206	5044

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU8IN	DEG C				DB
1	6.857	32.703	7.36	106.9	22.0	1.24	12.6	0.13		6.857	25.629	34.614	43.202	1
49	5.959	32.703	7.39	105.1	22.8	1.26	13.0	0.11		5.955	25.743	34.772	43.400	49
99	5.099	32.739	7.14	99.5	23.3	1.36	14.3	0.11		5.092	25.873	34.943	43.612	99
144	4.918	33.735	4.75	66.3	46.5	1.98	27.3	0.01		4.907	26.683	35.747	44.409	145
201	4.512	33.810	3.33	46.1	64.0	2.36	33.4	0.01		4.517	26.785	35.868	44.548	202
291	4.268	33.925	2.08	28.6	80.5	2.69	38.5	0.00		4.247	26.905	36.000	44.691	293
395	4.058	34.049	1.40	19.2	99.5	2.87	40.6	0.00		4.030	27.027	36.131	44.830	398
498	3.791	34.126	1.05	14.3	112.8	2.98	42.5	0.01		3.756	27.115	36.233	44.944	502
599	3.354	34.195	0.82	11.1	121.7	3.03	42.8	0.00		3.511	27.194	36.323	45.045	604
695	3.375	34.257	0.70	9.4	125.8	3.07	44.0	0.00		3.327	27.262	36.399	45.129	701
799	3.217	34.308	0.55	7.4	135.9	3.08	44.5	0.00		3.152	27.318	36.463	45.201	806
897	3.039	34.350	0.45	6.0	145.4		45.0	0.00		2.978	27.368	36.523	45.269	905
996	2.865	34.388	0.42	5.6	150.9	3.14	45.2	0.00		2.798	27.415	36.578	45.333	1005
1241	2.524	34.461	0.44	5.8	160.7	3.16	45.3	0.00		2.441	27.504	36.685	45.457	1254
1498	2.280	34.514	0.61	8.0	171.2	3.11	45.0	0.00		2.179	27.568	36.763	45.547	1514
1741	2.071	34.560	0.90	11.7	176.4	3.05	44.2	0.00		1.953	27.623	36.829	45.625	1761
1980	1.927	34.590	1.21	15.7	183.2	2.98	43.4	0.00		1.791	27.659	36.875	45.678	2004
2237	1.805	34.615	1.57	20.3	181.3	2.91	42.5	0.00		1.649	27.690	36.913	45.723	2266
2495	1.697	34.635	1.97	25.4	191.9	2.85	41.4	0.00		1.520	27.716	36.945	45.762	2529
2981	1.566	34.659	2.53	32.5	181.0	2.73	39.7	0.00		1.345	27.748	36.986	45.812	3025
3481	1.485	34.676	3.10	39.7	173.3	2.61	38.3	0.00		1.216	27.770	37.016	45.848	3536
3971	1.479	34.684	3.28	41.9	178.2		37.7	0.00		1.157	27.781	37.030	45.865	4039
4467	1.518	34.687	3.34	42.7	182.1		37.5	0.00		1.137	27.784	37.035	45.871	4549
5044	1.581	34.689	3.40	43.5	181.0	2.55	37.4	0.00		1.127	27.787	37.037	45.874	5143

MARATHON 2 STA. 71



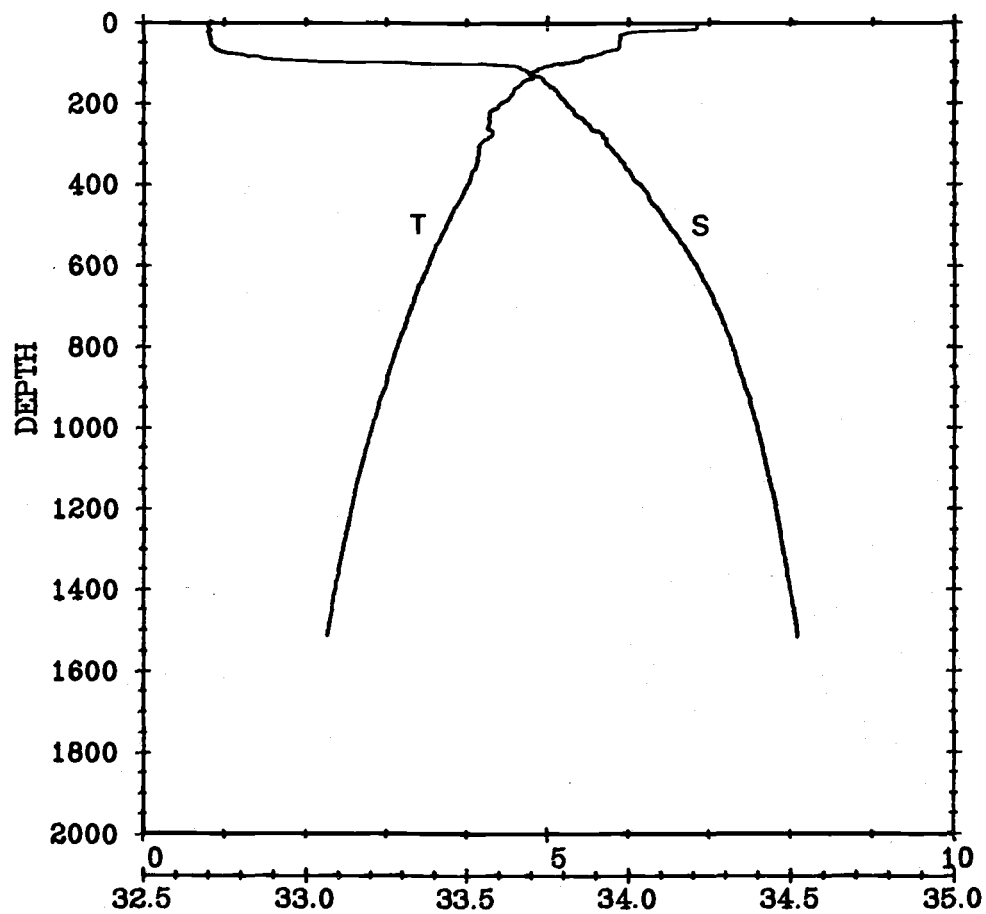
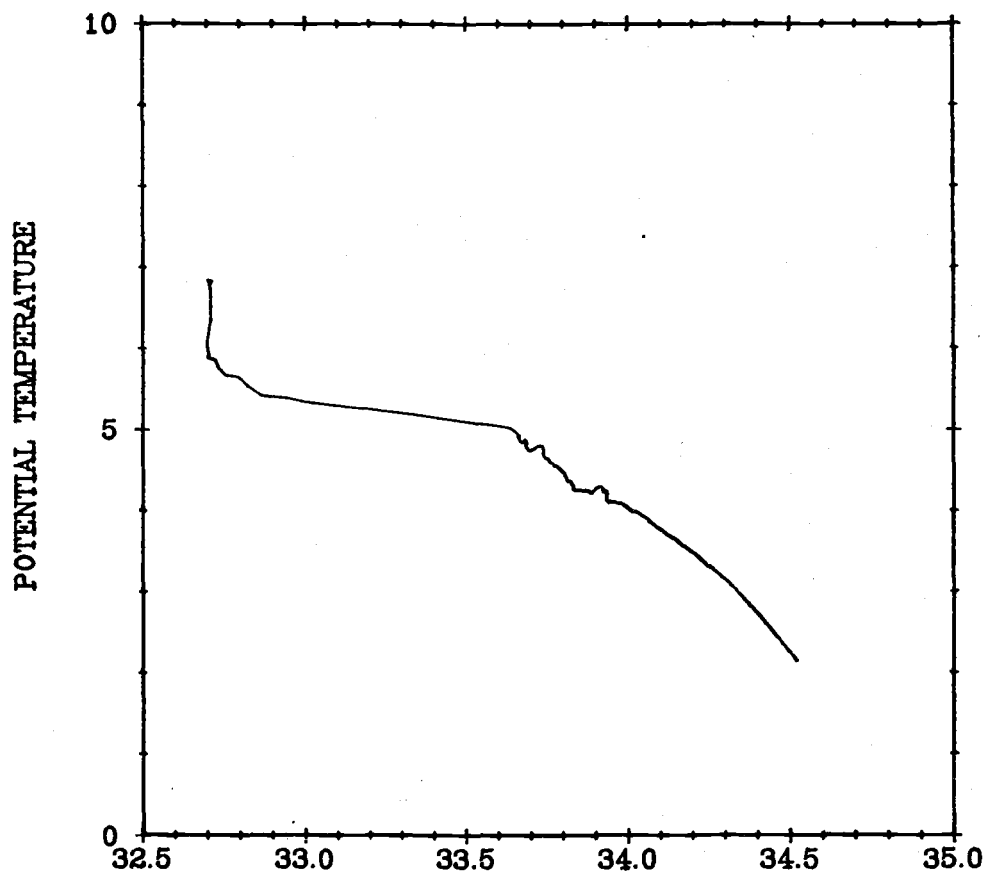
R/V THOMAS WASHINGTON MARATHON LEG II STATION 73

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
47 57.9N	151 59.7W	5/27/84	1206	4849	260	18	6.1	5.6	1014.6

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	6.847	32.705	25.632	34.617	43.206	234.672	0.000	0
20	6.390	32.705	25.691	34.699	43.307	229.281	0.046	19
40	5.893	32.706	25.890	34.786	43.417	223.541	0.092	39
60	5.861	32.718	25.856	34.801	43.433	222.483	0.136	59
80	5.603	32.807	25.597	34.913	43.557	213.048	0.180	79
100	5.224	33.253	25.216	35.323	43.977	175.517	0.219	99
150	4.686	33.748	4.675	26.712	35.795	132.975	0.296	148
200	4.436	33.809	4.422	26.795	35.883	126.196	0.361	198
250	4.273	33.973	4.255	26.863	35.959	120.118	0.422	248
300	4.181	33.934	4.160	26.922	36.021	115.009	0.481	297
350	4.114	33.982	4.089	26.967	36.069	111.131	0.538	347
400	4.009	34.029	3.981	27.016	36.123	106.919	0.592	396
450	3.884	34.074	3.853	27.065	36.178	102.637	0.644	446
500	3.754	34.120	3.719	27.115	36.234	98.219	0.695	495
600	3.520	34.204	3.479	27.205	36.335	90.232	0.789	594
700	3.318	34.267	3.271	27.275	36.415	84.114	0.876	693
800	3.135	34.318	3.081	27.333	36.483	79.052	0.958	792
900	2.981	34.355	2.921	27.377	36.535	75.301	1.035	891
1000	2.819	34.394	2.753	27.423	36.590	71.276	1.108	990
1100	2.686	34.424	2.613	27.460	36.633	68.191	1.178	1088
1200	2.561	34.451	2.482	27.492	36.672	65.377	1.245	1187
1300	2.460	34.473	2.374	27.519	36.704	63.161	1.309	1286
1400	2.360	34.495	2.268	27.546	36.736	60.922	1.371	1384
1500	2.273	34.515	2.174	27.569	36.765	58.946	1.431	1483
1532	2.248	34.520	2.146	27.575	36.772	58.442	1.450	1514

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
3	6.800	32.703	7.33	106.3	22.2	1.25	12.6	0.13	6.800	25.636	34.624	43.214	3
49	5.908	32.716	7.29	103.5	22.4	1.30	13.3	0.11	5.904	25.760	34.791	43.421	49
98	5.404	32.921	6.86	96.4	25.5	1.43	15.6	0.09	5.396	25.982	35.035	43.686	98
133	4.704	33.704	4.45	61.8	50.7	2.09	29.0	0.00	4.694	26.682	35.757	44.430	133
166	4.587	33.767	3.75	51.9	60.7	2.27	31.7	0.00	4.575	26.745	35.826	44.503	166
197	4.471	33.911	3.13	43.2	67.5	2.42	34.3	0.00	4.457	26.792	35.979	44.561	198
246	4.271	33.875	2.34	32.2	78.2	2.63	37.4	0.00	4.253	26.865	35.960	44.632	247
294	4.158	33.901	1.95	26.7	86.8	2.82	40.1	0.01	4.137	26.898	35.999	44.695	296
397	4.018	34.020	1.42	19.4	96.6	2.89	41.0	0.00	3.990	27.008	36.114	44.816	400
493	3.764	34.121	1.00	13.6	111.8	2.98	42.6	0.00	3.730	27.114	36.233	44.945	497
594	3.525	34.203	0.80	10.8	125.6	3.02	43.3	0.00	3.484	27.204	36.333	45.057	599
683	3.333	34.262	0.70	9.4	131.4	3.06	43.6	0.00	3.286	27.270	36.409	45.141	689
793	3.125	34.317	0.61	8.2	140.7	3.08	44.1	0.00	3.071	27.333	36.483	45.226	800
892	2.979	34.356	0.51	6.8	143.9	3.11	44.2	0.00	2.919	27.378	36.536	45.285	901
991	2.825	34.393	0.45	6.0	152.1	3.15	44.8	0.00	2.759	27.422	36.588	45.344	1000
1240	2.518	34.462	0.45	5.9	166.0		45.1	0.00	2.435	27.505	36.687	45.459	1253
1514	2.247	34.520	0.65	8.5	176.2		44.9	0.00	2.146	27.575	36.772	45.558	1531

MARATHON 2 STA. 73

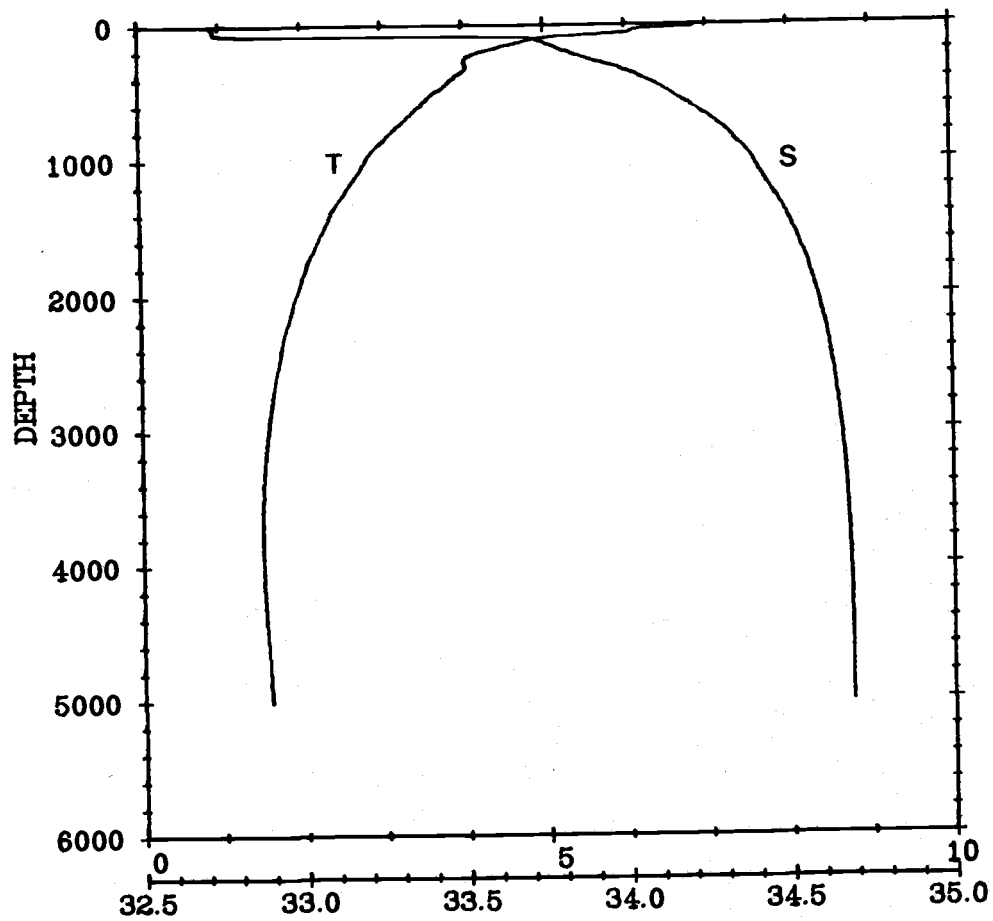
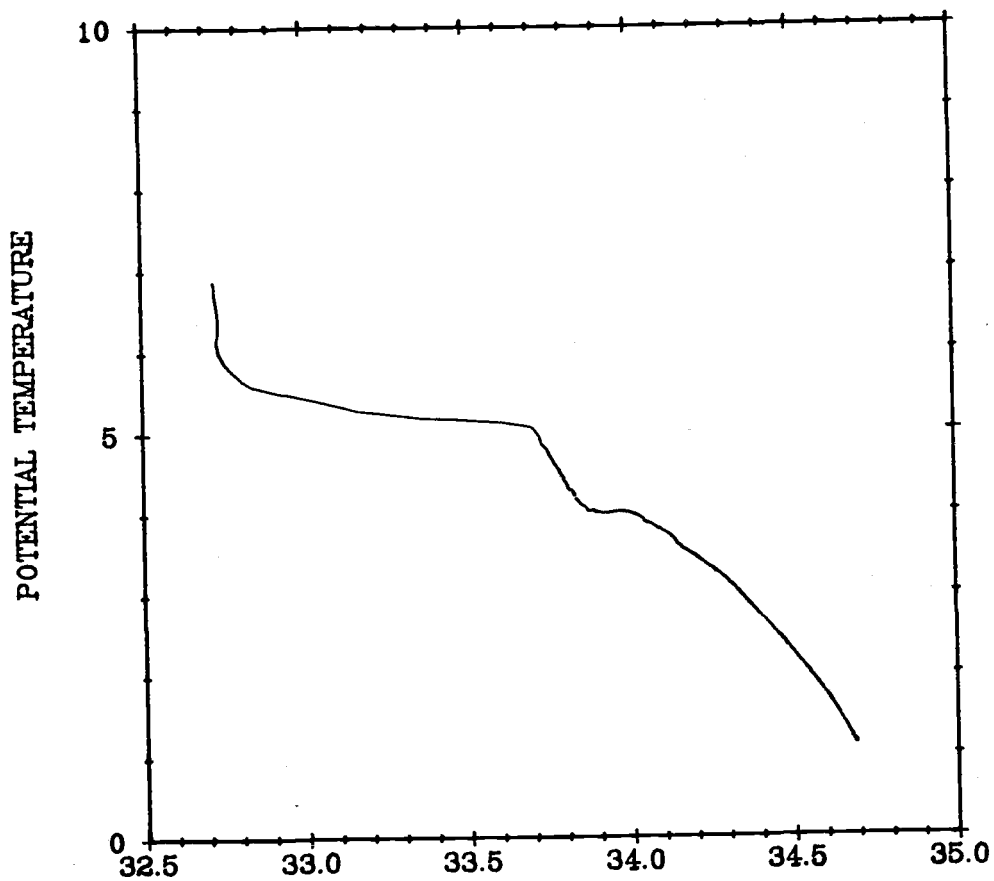


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
48 25.0N	151 59.0W	5/27/84	1924	5019	290	17	6.7	6.1	1018.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.877	32.724	6.877	25.643	34.627	43.213	233.627	0.000	0
20	6.802	32.726	6.800	25.655	34.642	43.232	232.789	0.047	19
40	6.217	32.735	6.214	25.737	34.752	43.369	225.183	0.092	39
50	6.033	32.741	6.028	25.765	34.789	43.414	222.771	0.137	59
80	5.555	32.971	5.549	26.004	35.049	43.692	200.197	0.180	79
100	5.025	33.661	5.017	26.612	35.672	44.330	142.695	0.214	99
150	4.599	33.772	4.588	26.748	35.828	44.504	130.243	0.282	148
200	4.270	33.822	4.256	26.823	35.919	44.611	123.478	0.345	198
250	4.046	33.883	4.029	26.895	36.002	44.703	117.007	0.406	248
300	4.038	33.952	4.017	26.951	36.057	44.759	112.162	0.453	297
350	4.005	34.012	3.981	27.002	36.110	44.812	107.735	0.518	347
400	3.893	34.060	3.865	27.052	36.165	44.872	103.375	0.571	396
450	3.797	34.102	3.766	27.096	36.213	44.924	99.625	0.621	446
500	3.674	34.138	3.640	27.137	36.260	44.977	96.032	0.670	495
600	3.490	34.203	3.449	27.207	36.339	45.064	89.991	0.763	594
700	3.303	34.268	3.256	27.277	36.418	45.152	83.881	0.850	693
800	3.119	34.320	3.065	27.336	36.487	45.229	78.724	0.932	792
900	2.942	34.360	2.882	27.385	36.544	45.296	74.514	1.008	891
1000	2.798	34.394	2.732	27.425	36.593	45.351	71.051	1.081	990
1100	2.705	34.416	2.632	27.452	36.624	45.387	68.990	1.151	1088
1200	2.588	34.442	2.509	27.483	36.661	45.430	66.339	1.219	1187
1300	2.473	34.468	2.387	27.514	36.699	45.473	63.674	1.284	1286
1400	2.362	34.492	2.270	27.543	36.734	45.514	61.166	1.346	1384
1500	2.280	34.510	2.181	27.565	36.760	45.544	59.394	1.406	1483
1600	2.197	34.528	2.091	27.586	36.786	45.575	57.581	1.465	1581
1700	2.120	34.545	2.007	27.607	36.811	45.604	55.883	1.522	1680
1800	2.048	34.560	1.928	27.625	36.833	45.630	54.363	1.577	1778
1900	1.987	34.573	1.859	27.641	36.853	45.653	53.094	1.630	1876
2000	1.932	34.584	1.797	27.654	36.869	45.672	52.022	1.683	1975
2100	1.875	34.595	1.732	27.668	36.886	45.693	50.904	1.734	2073
2200	1.829	34.604	1.678	27.679	36.901	45.710	50.047	1.785	2171
2300	1.773	34.614	1.615	27.692	36.917	45.729	48.973	1.834	2269
2400	1.734	34.622	1.568	27.702	36.929	45.744	48.240	1.883	2368
2500	1.705	34.628	1.530	27.709	36.939	45.755	47.766	1.931	2466
2600	1.666	34.635	1.483	27.719	36.950	45.769	47.075	1.978	2564
2700	1.637	34.641	1.445	27.726	36.960	45.780	46.575	2.025	2662
2800	1.611	34.646	1.411	27.733	36.968	45.791	46.174	2.072	2760
2900	1.591	34.651	1.382	27.739	36.976	45.800	45.844	2.118	2858
3000	1.567	34.655	1.349	27.744	36.983	45.809	45.522	2.163	2955
3100	1.546	34.659	1.319	27.750	36.990	45.817	45.231	2.209	3053
3200	1.525	34.663	1.288	27.755	36.997	45.826	44.931	2.254	3151
3300	1.512	34.666	1.266	27.759	37.002	45.832	44.808	2.299	3249
3400	1.499	34.669	1.243	27.763	37.007	45.838	44.680	2.343	3346
3500	1.491	34.671	1.225	27.766	37.011	45.843	44.690	2.388	3444
3600	1.482	34.674	1.206	27.770	37.016	45.849	44.609	2.433	3542
3700	1.481	34.676	1.195	27.772	37.019	45.852	44.717	2.477	3639
3800	1.479	34.677	1.182	27.773	37.021	45.855	44.878	2.522	3737
3900	1.480	34.679	1.172	27.776	37.024	45.859	45.013	2.567	3834
4000	1.482	34.680	1.164	27.777	37.026	45.861	45.233	2.612	3932
4100	1.486	34.682	1.156	27.779	37.029	45.864	45.414	2.658	4029
4200	1.492	34.682	1.151	27.780	37.029	45.865	45.768	2.703	4126
4300	1.497	34.683	1.145	27.781	37.031	45.867	46.036	2.749	4224
4400	1.506	34.684	1.142	27.782	37.032	45.868	46.370	2.795	4321
4500	1.513	34.685	1.138	27.783	37.033	45.870	46.673	2.842	4418
4600	1.523	34.685	1.136	27.783	37.034	45.870	47.097	2.889	4515
4700	1.532	34.685	1.133	27.783	37.034	45.871	47.507	2.936	4612
4800	1.541	34.686	1.129	27.784	37.035	45.872	47.848	2.984	4710
4900	1.552	34.687	1.128	27.785	37.036	45.873	48.225	3.032	4807
5000	1.563	34.687	1.127	27.785	37.036	45.873	48.675	3.080	4904
5100	1.575	34.687	1.126	27.785	37.036	45.873	49.144	3.129	5001
5112	1.576	34.687	1.125	27.785	37.036	45.873	49.193	3.135	5012

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	6.938	32.737	7.25	105.5	20.6	1.23	12.6	0.11	6.938	25.645	34.625	43.209		1
18	6.899	32.734	7.26	105.6	21.4	1.23	12.5	0.11	6.897	25.648	34.631	43.216		18
51	6.053	32.740			21.4	1.25	13.1	0.10	6.049	25.761	34.784	43.408		51
103	5.108	33.672	5.07	71.1	42.4	1.86	25.7	0.04	5.100	26.611	35.667	44.321		103
156	4.645	33.767	3.92	54.4	57.3	2.21	31.0	0.01	4.634	26.739	35.816	44.491		157
201	4.364	33.806	3.08	42.4	67.5	2.45	34.6	0.00	4.350	26.800	35.892	44.579		202
296	4.029	33.912	1.89	25.8	86.6	2.76	39.7	0.00	4.008	26.920	36.027	44.729		298
396	3.957	34.037	1.31	17.9	99.4	2.91	41.5	0.00	3.929	27.027	36.137	44.841		399
505	3.704	34.136	0.90	12.2	114.6	2.98	42.9	0.00	3.669	27.132	36.254	44.969		509
603	3.467	34.212	0.73	9.9	123.5	3.03	43.4	0.00	3.426	27.216	36.349	45.075		608
698	3.317	34.263	0.67	9.0	131.3	3.03	43.8	0.00	3.269	27.272	36.412	45.146		704
799	3.125	34.321	0.57	7.6	138.9	3.06	44.2	0.00	3.071	27.336	36.487	45.229		905
902	2.974	34.355	0.50	6.7	142.5	3.09	44.5	0.00	2.913	27.378	36.536	45.285		910
998	2.817	34.391	0.46	6.1	149.1	3.10	44.7	0.00	2.750	27.421	36.587	45.345		1008
1234	2.527	34.458	0.43	5.7	160.6	3.11	45.0	0.00	2.445	27.501	36.683	45.454		1247
1494	2.282	34.512	0.57	7.5	170.8	3.09	45.0	0.00	2.182	27.566	36.761	45.545		1510
1733	2.103	34.552	0.83	10.8	175.5	3.03	44.4	0.00	1.986	27.614	36.819	45.613		1753
1979	1.932	34.587	1.21	15.7	175.6	2.97	43.4	0.00	1.796	27.656	36.871	45.675		2003
2479	1.695	34.632	1.97	25.4	179.7	2.83	41.2	0.00	1.519	27.713	36.943	45.760		2513
2899	1.573	34.655	2.52	32.4	174.5	2.72	39.8	0.00	1.360	27.743	36.981	45.806		2941
3453	1.487	34.675	3.07	39.3	168.0	2.61	38.3	0.00	1.220	27.769	37.015	45.847		3508
3945	1.481	34.682	3.25	41.6	171.2		37.7	0.00	1.161	27.779	37.028	45.863		4013
4437	1.515	34.686	3.34	42.7	171.3		37.6	0.00	1.138	27.784	37.034	45.870		4518
5012	1.576	34.688	3.40	43.4	173.6	2.53	37.5	0.00	1.126	27.786	37.037	45.874		5111

MARATHON 2 STA. 74

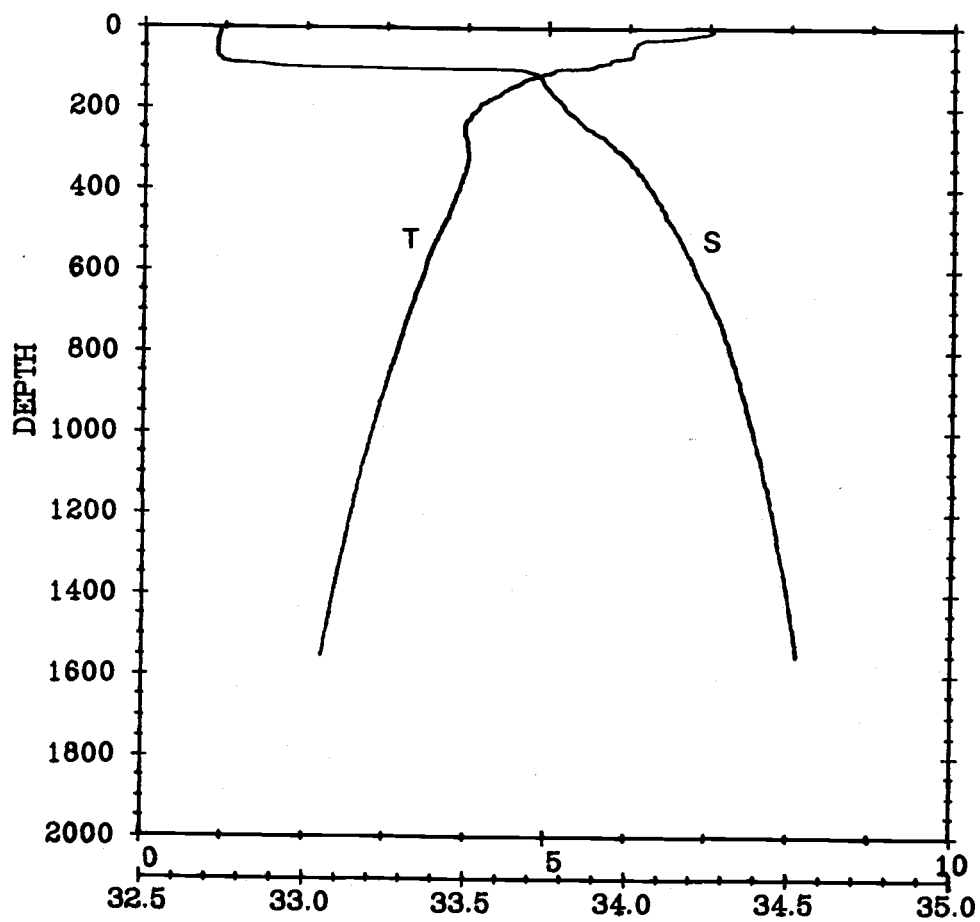
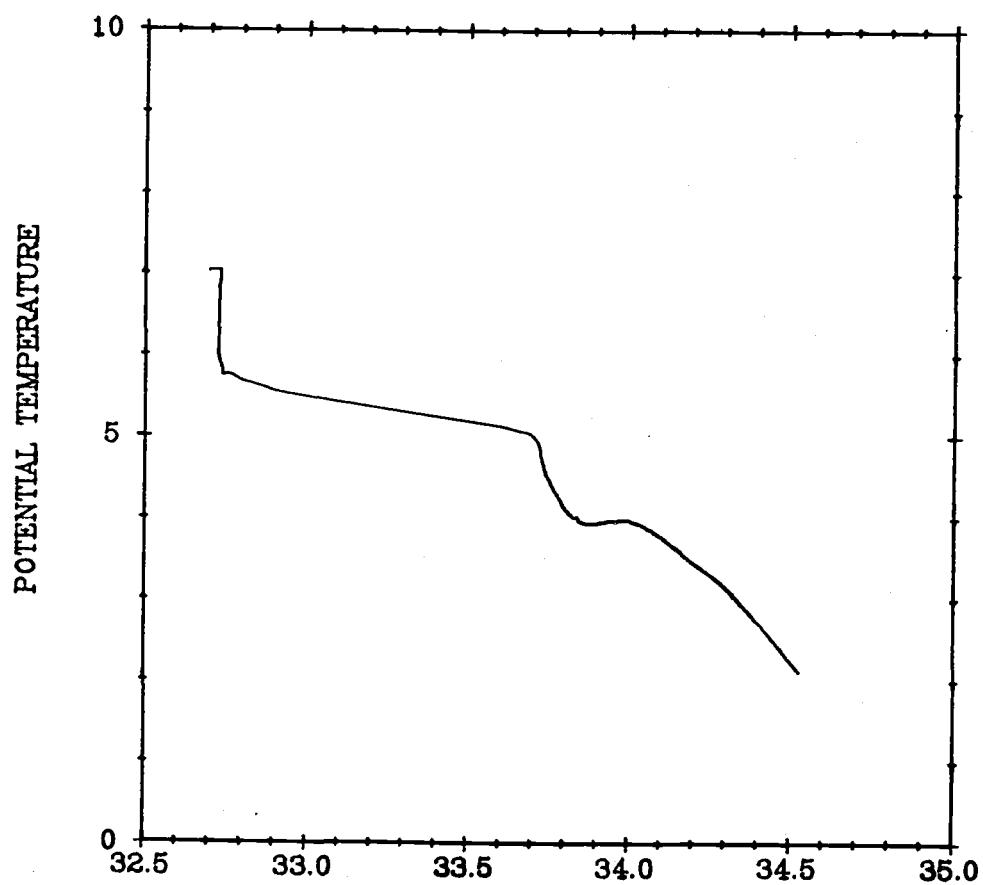


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
48 52.2N	152 0.1W	5/28/84	254	4058	290	19	7.8	5.6	1019.6

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	7.037	32.726	7.037	25.623	34.599	43.179	235.506	0.000	0
20	6.762	32.731	6.760	25.664	34.653	43.245	231.912	0.047	19
40	6.119	32.724	6.116	25.740	34.761	43.382	224.841	0.092	39
60	6.035	32.724	6.030	25.751	34.775	43.400	224.070	0.137	59
80	5.828	32.749	5.822	25.796	34.830	43.464	219.987	0.182	79
100	5.376	33.203	5.368	26.209	35.259	43.907	180.971	0.222	99
150	4.519	33.747	4.508	26.736	35.821	44.502	131.272	0.300	148
200	4.126	33.803	4.112	26.823	35.926	44.625	123.419	0.364	198
250	3.956	33.871	3.939	26.894	36.006	44.713	116.988	0.424	248
300	3.991	33.955	3.970	26.958	36.067	44.770	111.449	0.481	297
350	3.972	34.019	3.948	27.011	36.120	44.824	106.865	0.535	347
400	3.889	34.064	3.861	27.056	36.168	44.876	103.034	0.588	396
450	3.792	34.104	3.761	27.098	36.215	44.926	99.423	0.638	446
500	3.679	34.141	3.645	27.139	36.261	44.978	95.860	0.687	495
600	3.477	34.203	3.436	27.208	36.341	45.067	89.854	0.780	594
700	3.304	34.266	3.257	27.276	36.417	45.151	84.041	0.867	693
800	3.142	34.314	3.088	27.329	36.479	45.220	79.425	0.949	792
900	2.988	34.351	2.928	27.374	36.531	45.280	75.673	1.026	891
1000	2.844	34.386	2.778	27.415	36.580	45.336	72.138	1.100	990
1100	2.706	34.419	2.633	27.454	36.626	45.389	68.778	1.171	1088
1200	2.589	34.445	2.510	27.485	36.664	45.432	66.127	1.238	1187
1300	2.481	34.468	2.395	27.513	36.698	45.472	63.762	1.303	1286
1400	2.365	34.492	2.272	27.543	36.733	45.513	61.199	1.366	1384
1500	2.276	34.513	2.177	27.567	36.763	45.547	59.127	1.426	1483
1570	2.216	34.526	2.112	27.583	36.782	45.569	57.810	1.467	1552

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
2	7.028	32.745	7.23	105.5	21.2	1.23	12.5	0.12		7.028	25.639	34.615	43.195	2
49	6.046	32.726	7.22	102.9	21.7	1.25	13.3	0.10		6.042	25.751	34.775	43.399	49
98	5.149	33.385	5.68	79.6	36.1	1.72	22.3	0.07		5.141	26.379	35.437	44.093	98
131	4.619	33.737	4.24	58.8	54.6	2.13	29.8	0.01		4.609	26.717	35.797	44.473	131
162	4.261	33.781	3.21	44.1	67.9	2.42	34.3	0.01		4.250	26.791	35.888	44.580	163
197	4.031	33.812	2.68	36.7	74.7	2.57	36.6	0.00		4.067	26.834	35.940	44.641	198
247	3.956	33.888	1.97	26.9	96.0	2.77	39.5	0.00		3.939	26.908	36.019	44.725	248
293	3.997	33.955	1.60	21.9	92.5	2.83	40.4	0.00		3.977	26.957	36.066	44.769	295
409	3.841	34.084	1.10	15.0	107.9	2.95	42.1	0.00		3.812	27.076	36.191	44.900	412
503	3.642	34.153	0.88	11.9	117.2	2.99	42.9	0.00		3.607	27.152	36.276	44.994	507
602	3.472	34.208	0.76	10.3	125.7	3.03	43.3	0.00		3.431	27.213	36.345	45.072	607
699	3.297	34.270	0.65	8.7	133.2	3.05	43.7	0.00		3.249	27.279	36.421	45.155	705
790	3.150	34.312	0.57	7.6	138.4	3.08	44.0	0.00		3.096	27.327	36.476	45.217	797
898	2.988	34.352	0.54	7.2	146.9	3.10	44.3	0.00		2.927	27.374	36.531	45.281	906
996	2.872	34.380	0.45	6.0	151.1	3.12	44.6	0.00		2.805	27.408	36.571	45.326	1005
1239	2.543	34.455	0.40	5.3	163.2		45.1	0.00		2.460	27.498	36.678	45.449	1252
1550	2.222	34.524	0.53	8.2	175.8		44.7	0.00		2.118	27.581	36.779	45.566	1567

MARATHON 2 STA. 75

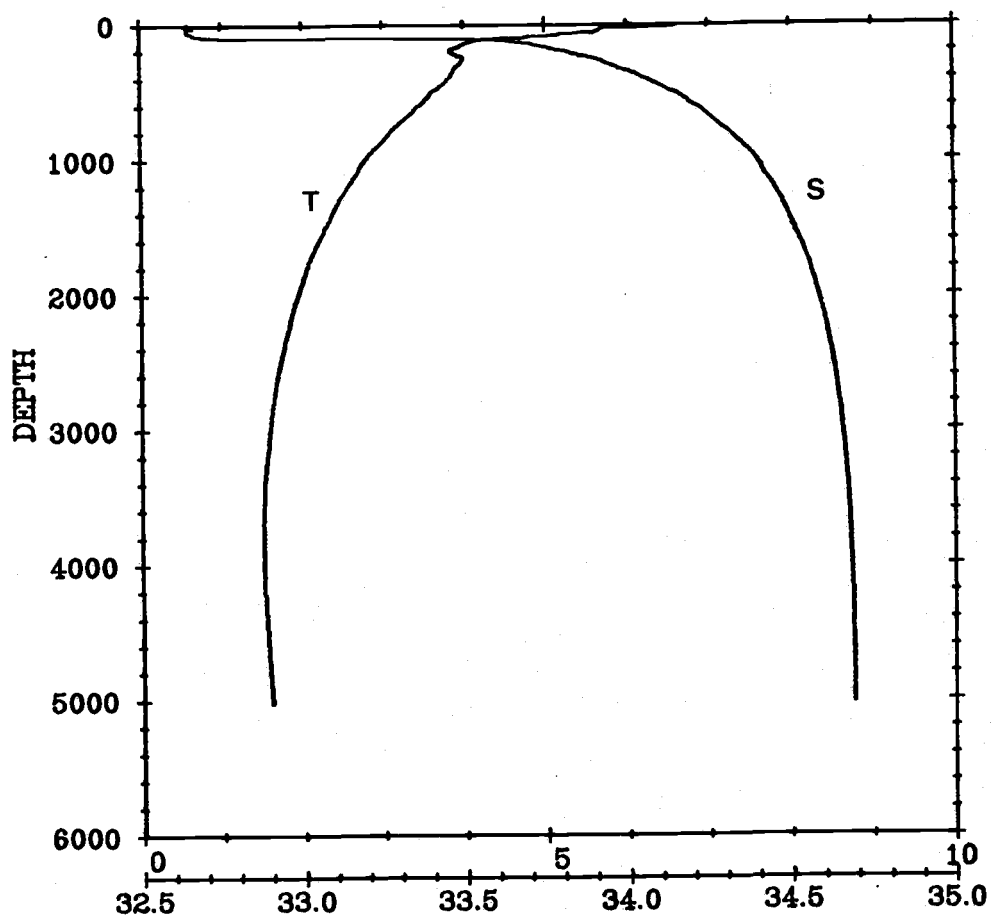
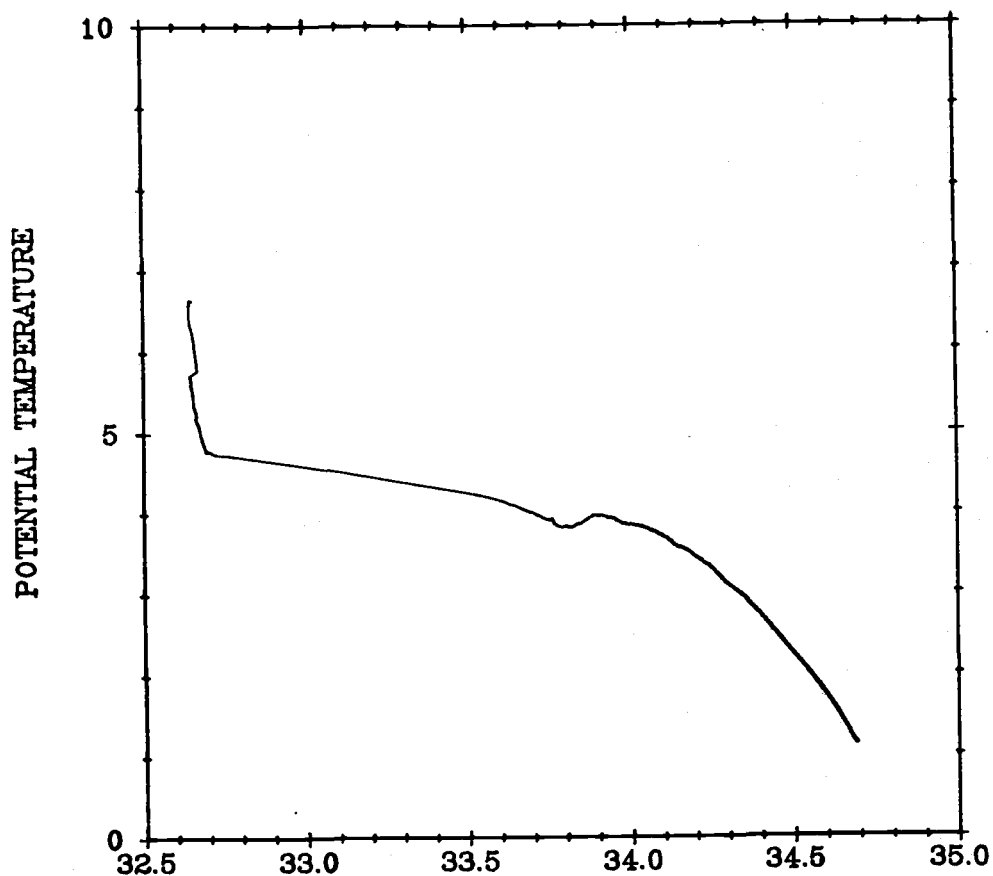


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
49 19.7N	151 59.4W	5/28/84	900	4996	230	11	5.6	5.0	1012.6

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	6.618	32.644	6.618	25.614	34.611	43.211	236.396	0.000	0
20	6.301	32.646	6.299	25.656	34.669	43.282	232.632	0.047	19
40	5.678	32.646	5.675	25.732	34.775	43.418	225.577	0.093	39
60	5.482	32.652	5.477	25.760	34.813	43.464	223.118	0.138	59
80	5.079	32.672	5.073	25.822	34.895	43.565	217.380	0.182	79
100	4.590	33.008	4.583	26.142	35.234	43.922	187.122	0.222	99
150	3.983	33.714	3.973	26.766	35.879	44.586	128.261	0.301	148
200	3.849	33.807	3.836	26.854	35.972	44.684	120.327	0.363	198
250	3.992	33.894	3.975	26.909	36.019	44.723	115.628	0.422	248
300	3.943	33.950	3.922	26.959	36.070	44.776	111.329	0.479	297
350	3.873	34.008	3.849	27.012	36.127	44.835	106.661	0.533	347
400	3.820	34.055	3.792	27.056	36.172	44.883	102.988	0.586	396
450	3.737	34.099	3.706	27.099	36.219	44.934	99.222	0.636	446
500	3.616	34.141	3.582	27.145	36.271	44.990	95.201	0.685	495
600	3.465	34.206	3.424	27.212	36.345	45.072	89.504	0.777	594
700	3.283	34.264	3.236	27.276	36.418	45.153	83.958	0.864	693
800	3.100	34.315	3.047	27.334	36.486	45.229	78.906	0.945	792
900	2.952	34.358	2.892	27.382	36.542	45.292	74.769	1.022	891
1000	2.793	34.396	2.727	27.427	36.595	45.353	70.849	1.095	990
1100	2.685	34.421	2.612	27.457	36.630	45.394	68.402	1.165	1088
1200	2.565	34.448	2.486	27.490	36.669	45.439	65.643	1.232	1187
1300	2.456	34.472	2.370	27.519	36.704	45.479	63.190	1.296	1286
1400	2.372	34.490	2.279	27.541	36.731	45.510	61.425	1.358	1384
1500	2.292	34.507	2.192	27.561	36.756	45.540	59.750	1.419	1483
1600	2.206	34.526	2.100	27.584	36.783	45.572	57.831	1.478	1581
1700	2.120	34.545	2.007	27.607	36.811	45.604	55.883	1.535	1680
1800	2.054	34.558	1.933	27.623	36.831	45.627	54.580	1.590	1778
1900	1.998	34.571	1.870	27.638	36.849	45.649	53.372	1.644	1876
2000	1.941	34.582	1.806	27.652	36.866	45.669	52.277	1.697	1975
2100	1.887	34.593	1.744	27.665	36.883	45.689	51.197	1.748	2073
2200	1.839	34.603	1.688	27.678	36.898	45.707	50.244	1.799	2171
2300	1.801	34.611	1.642	27.688	36.911	45.722	49.544	1.849	2269
2400	1.760	34.619	1.593	27.698	36.923	45.737	48.790	1.898	2367
2500	1.719	34.626	1.544	27.707	36.935	45.751	48.092	1.947	2465
2600	1.682	34.633	1.499	27.716	36.947	45.765	47.430	1.994	2564
2700	1.652	34.639	1.460	27.723	36.956	45.776	46.918	2.042	2661
2800	1.626	34.644	1.425	27.730	36.965	45.786	46.520	2.088	2759
2900	1.600	34.649	1.391	27.736	36.973	45.797	46.111	2.135	2857
3000	1.580	34.653	1.361	27.742	36.980	45.805	45.846	2.181	2955
3100	1.562	34.657	1.334	27.747	36.987	45.813	45.599	2.226	3053
3200	1.546	34.660	1.309	27.751	36.992	45.820	45.445	2.272	3151
3300	1.527	34.664	1.280	27.756	36.999	45.828	45.168	2.317	3249
3400	1.510	34.668	1.254	27.761	37.005	45.836	44.912	2.362	3346
3500	1.501	34.670	1.235	27.764	37.009	45.841	44.909	2.407	3444
3600	1.494	34.673	1.218	27.768	37.014	45.846	44.861	2.452	3541
3700	1.489	34.675	1.202	27.771	37.017	45.850	44.910	2.497	3639
3800	1.486	34.677	1.189	27.773	37.021	45.854	44.986	2.542	3736
3900	1.486	34.678	1.178	27.775	37.023	45.857	45.177	2.587	3834
4000	1.488	34.680	1.169	27.777	37.025	45.860	45.328	2.632	3931
4100	1.492	34.681	1.162	27.778	37.027	45.862	45.581	2.678	4029
4200	1.498	34.681	1.157	27.778	37.028	45.863	45.936	2.723	4126
4300	1.506	34.683	1.154	27.780	37.030	45.865	46.184	2.769	4223
4400	1.513	34.683	1.149	27.781	37.030	45.866	46.557	2.816	4321
4500	1.522	34.684	1.146	27.781	37.031	45.867	46.894	2.863	4418
4600	1.531	34.684	1.143	27.782	37.032	45.868	47.304	2.910	4515
4700	1.541	34.685	1.141	27.783	37.033	45.869	47.661	2.957	4612
4800	1.551	34.685	1.139	27.783	37.033	45.869	48.091	3.005	4709
4900	1.562	34.686	1.138	27.784	37.034	45.870	48.471	3.053	4806
5000	1.574	34.686	1.137	27.784	37.034	45.870	48.940	3.102	4903
5100	1.586	34.686	1.137	27.784	37.034	45.871	49.411	3.151	5000
5128	1.589	34.686	1.136	27.784	37.034	45.871	49.537	3.165	5027

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUBIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C													
1	6.558	32.645	7.37	106.3	23.5	1.28	13.0	0.16		6.558	25.622	34.622	43.224	1
22	6.341	32.647	7.46	107.0	23.4	1.29	13.0	0.15		6.339	25.652	34.662	43.274	22
52	5.216	32.664	7.29	101.8	24.5	1.35	14.4	0.11		5.212	25.800	34.866	43.529	52
104	4.152	33.621	4.57	62.6	53.7	2.16	29.7	0.01		4.145	26.674	35.779	44.479	104
149	3.942	33.742	3.17	43.2	69.1	2.51	35.4	0.01		3.932	26.792	35.906	44.615	150
203	3.841	33.820	2.30	31.3	80.7	2.73	38.7	0.01		3.827	26.865	35.983	44.696	204
297	3.898	33.966	1.47	20.0	96.2	2.89	41.3	0.00		3.877	26.976	36.089	44.797	299
393	3.806	34.065	1.13	15.4	107.4	2.97	42.4	0.00		3.779	27.065	36.182	44.893	396
498	3.618	34.141	0.93	11.2	118.5	3.02	43.4	0.01		3.584	27.144	36.270	44.990	502
594	3.475	34.202	0.75	10.1	126.3	3.04	43.5	0.01		3.434	27.208	36.340	45.066	599
695	3.274	34.263	0.67	9.0	135.6	3.04	43.9	0.02		3.227	27.281	36.423	45.158	701
790	3.112	34.311	0.64	8.6	143.1	3.07	44.2	0.00		3.059	27.330	36.480	45.224	797
892	2.978	34.355	0.57	7.6	147.7	3.11	44.5	0.00		2.918	27.378	36.535	45.285	900
998	2.790	34.402	0.43	5.7	156.1	3.14	45.1	0.00		2.723	27.432	36.600	45.358	1008
1242	2.491	34.466	0.44	5.8	165.5	3.14	45.4	0.00		2.408	27.510	36.694	45.467	1255
1506	2.268	34.517	0.63	8.3	171.2	3.11	45.1	0.00		2.157	27.572	36.768	45.554	1523
1743	2.096	34.554	0.88	11.5	175.3	3.06	44.5	0.00		1.978	27.616	36.821	45.615	1764
2019	1.919	34.589	1.26	16.4	190.7	2.99	43.5	0.00		1.780	27.659	36.875	45.679	2044
2511	1.693	34.633	2.03	26.2	182.0	2.85	41.5	0.00		1.514	27.714	36.944	45.761	2546
3007	1.563	34.659	2.63	33.8	178.8	2.71	39.7	0.00		1.340	27.748	36.987	45.813	3052
3500	1.493	34.674	3.07	39.3	175.4	2.61	38.4	0.00		1.221	27.768	37.014	45.846	3557
4024	1.492	34.682	3.26	41.7	176.2		37.9	0.00		1.163	27.779	37.028	45.862	4094
4518	1.531	34.685	3.32	42.4	178.2		37.7	0.00		1.143	27.782	37.032	45.868	4502
5027	1.589	34.686	3.36	42.9	179.5	2.56	37.6	0.00		1.137	27.784	37.034	45.870	5127

MARATHON 2 STA. 76



LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
49 47.8N	152 1.1W	5/28/84	1524	4897	40	6	5.6	3.9	1018.0

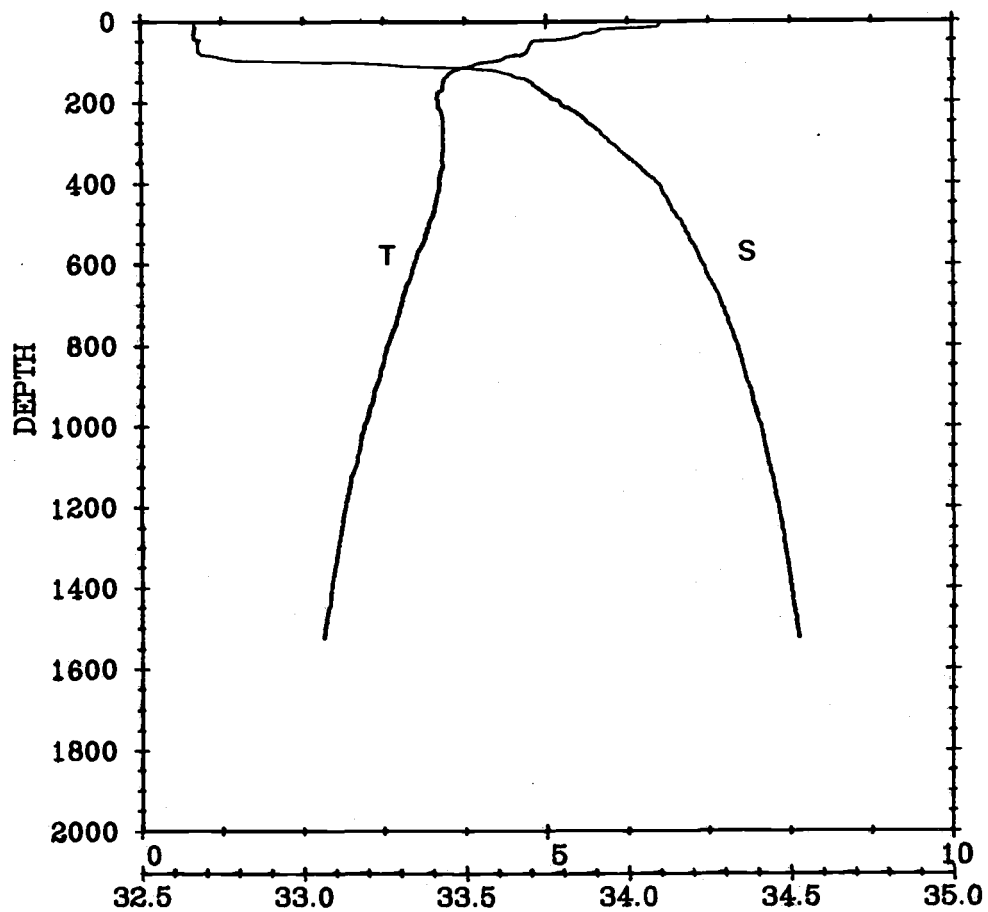
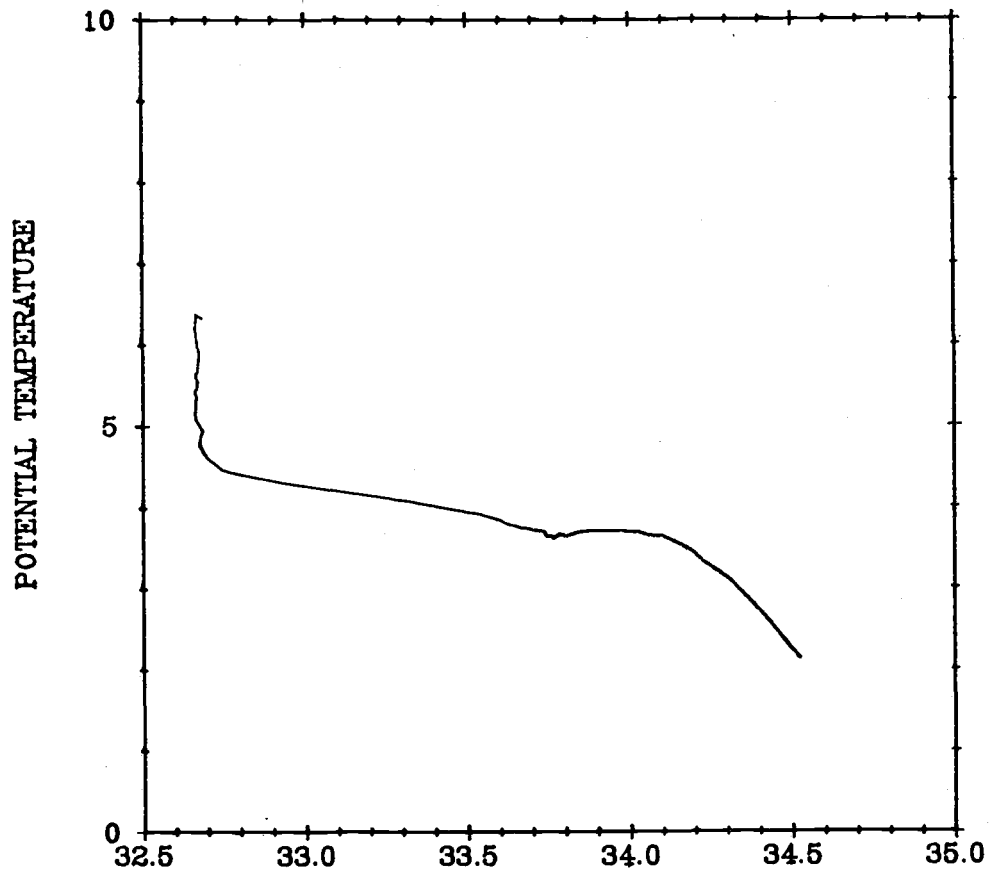
CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
0	6.364	32.671	6.364	25.668	34.677	43.287	231.283	0.000	0
20	5.871	32.667	5.869	25.726	34.759	43.392	226.000	0.046	19
40	5.256	32.669	5.253	25.799	34.863	43.525	219.157	0.090	39
60	4.812	32.679	4.808	25.857	34.943	43.625	213.849	0.134	59
80	4.691	32.694	4.685	25.882	34.974	43.662	211.628	0.176	79
100	4.312	32.968	4.305	26.139	35.246	43.949	187.302	0.216	99
150	3.736	33.697	3.726	26.777	35.903	44.622	127.120	0.295	148
200	3.668	33.788	3.655	26.856	35.984	44.706	119.979	0.356	198
250	3.731	33.877	3.714	26.922	36.045	44.762	114.277	0.415	248
300	3.734	33.945	3.714	26.976	36.098	44.814	109.579	0.471	297
350	3.719	34.017	3.695	27.035	36.157	44.873	104.408	0.524	347
400	3.675	34.086	3.648	27.094	36.218	44.935	99.169	0.575	396
450	3.627	34.125	3.596	27.131	36.256	44.975	96.135	0.624	446
500	3.554	34.164	3.520	27.169	36.298	45.021	92.837	0.671	495
600	3.365	34.227	3.325	27.238	36.376	45.107	85.892	0.761	594
700	3.207	34.287	3.160	27.301	36.447	45.186	81.456	0.845	693
800	3.047	34.333	2.994	27.353	36.507	45.253	77.006	0.925	792
900	2.910	34.369	2.850	27.395	36.556	45.309	73.505	1.000	891
1000	2.765	34.403	2.699	27.435	36.604	45.364	70.030	1.072	990
1100	2.650	34.431	2.578	27.468	36.643	45.409	67.283	1.140	1088
1200	2.520	34.459	2.441	27.502	36.684	45.456	64.338	1.206	1187
1300	2.426	34.479	2.341	27.527	36.714	45.490	62.342	1.269	1286
1400	2.343	34.497	2.251	27.549	36.740	45.521	60.585	1.331	1384
1500	2.267	34.515	2.168	27.570	36.766	45.551	58.878	1.391	1483
1542	2.231	34.523	2.129	27.579	36.777	45.564	58.074	1.415	1524

NISKIN BOTTLE DATA

DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUS/LN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
2	6.365	32.670	7.40	106.2	24.7	1.35	14.0	0.16	4.65	6.365	25.667	34.676	43.286	2
28	5.528	32.668	7.47	105.1	24.8	1.36	14.2	0.15		5.526	25.767	34.817	43.466	28
57	4.798	32.681	7.32	101.2	26.2	1.43	15.5	0.12		4.794	25.860	34.946	43.629	57
108	4.068	33.298	5.27	71.9	46.8	2.03	26.9	0.05	3.43	4.061	26.426	35.541	44.250	108
158	3.697	33.720	3.01	40.8	71.4	2.60	36.9	0.00	3.19	3.687	26.799	35.926	44.647	158
206	3.664	33.817	2.04	27.6	94.4	2.81	40.2	0.00	3.09	3.650	26.880	36.007	44.729	206
251	3.725	33.902	1.50	20.4	93.2	2.93	42.0	0.00	2.56	3.708	26.942	36.065	44.792	252
303	3.733	33.966	1.19	16.2	99.3	2.99	42.9	0.00	2.19	3.712	26.992	36.115	44.830	305
404	3.669	34.095	0.87	11.8	113.0	3.03	43.4	0.00	1.19	3.641	27.102	36.226	44.943	407
504	3.539	34.171	0.77	10.4	121.5	3.05	43.6	0.00	0.65	3.505	27.176	36.305	45.029	508
603	3.355	34.231	0.65	8.8	131.6	3.05	43.8	0.00	0.38	3.314	27.242	36.381	45.112	608
699	3.197	34.290	0.69	9.3	137.2	3.07	44.0	0.00	0.27	3.150	27.304	36.451	45.189	705
800	3.037	34.335	0.61	8.2	142.8	3.09	44.1	0.00	0.28	2.983	27.356	36.510	45.257	807
896	2.895	34.373	0.55	7.3	149.7	3.11	44.5	0.00	0.20	2.835	27.399	36.561	45.314	904
1024	2.703	34.418	0.48	6.4	157.0	3.13	44.9	0.00	0.25	2.635	27.453	36.625	45.387	1034
1245	2.452	34.473	0.51	6.7	165.7		45.0	0.00		2.369	27.520	36.705	45.480	1258
1523	2.229	34.523	0.74	9.7	172.7		44.6	0.00		2.127	27.579	36.777	45.564	1540

MARATHON 2 STA. 77

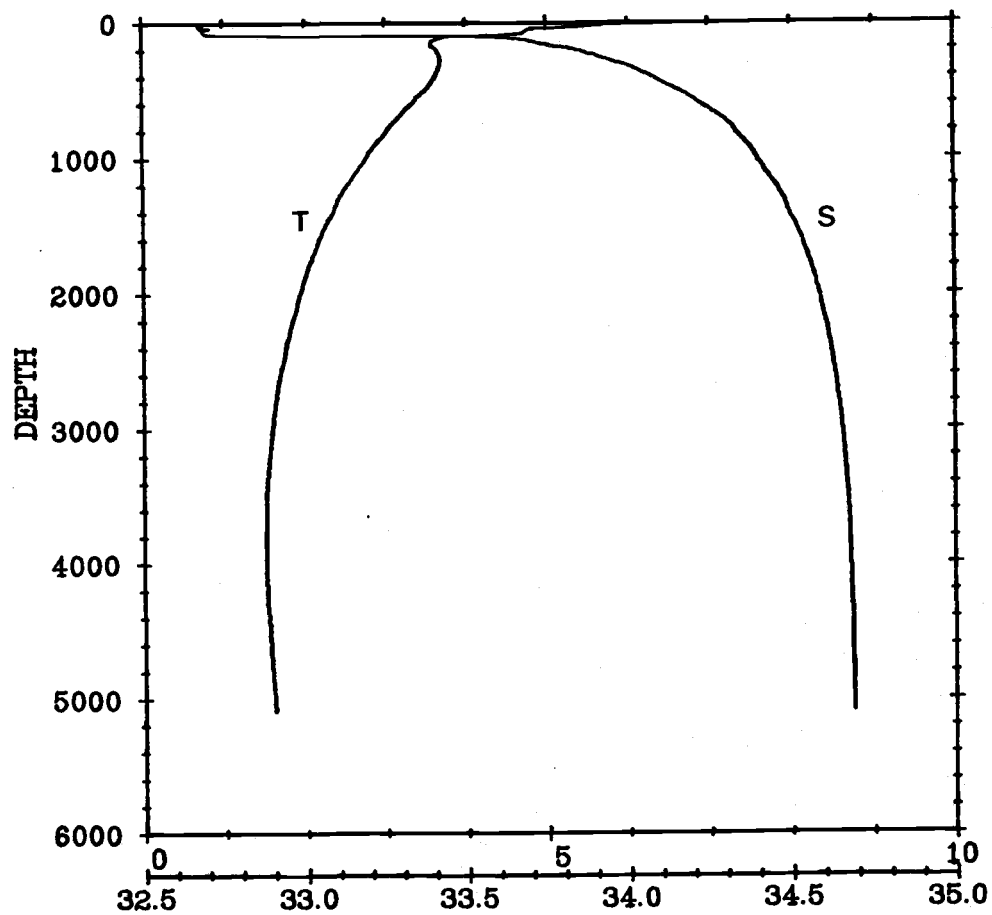
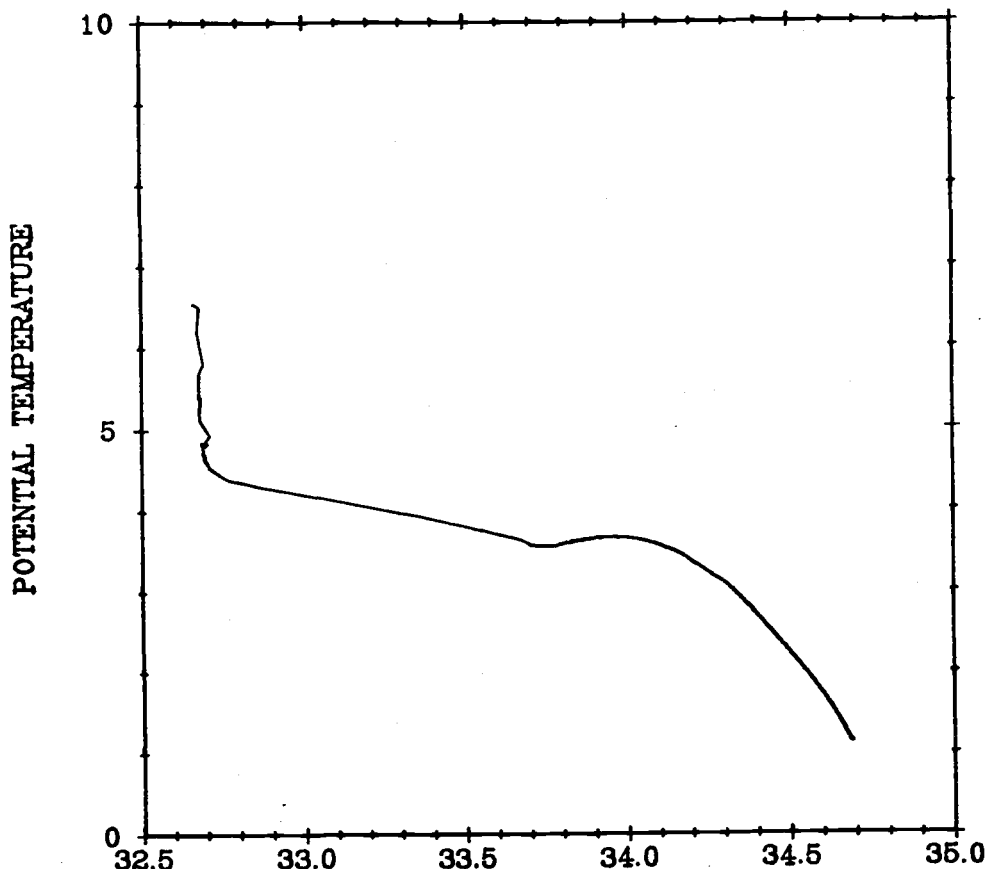


LATITUDE	LONGITUDE	MO/OY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
50 15.1N	151 59.0W	5/28/84	2124	5110	320	7	7.2	6.1	1021.0

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	6.454	32.674	25.658	34.663	43.269	232.144	0.000	0
20	5.705	32.679	25.755	34.796	43.437	223.200	0.046	19
40	5.033	32.688	25.839	34.914	43.586	215.328	0.089	39
60	4.745	32.691	25.873	34.963	43.648	212.250	0.132	59
80	4.643	32.705	25.896	34.990	43.680	210.305	0.174	79
100	4.064	33.189	26.340	35.457	44.167	168.201	0.212	99
150	3.569	33.724	26.815	35.949	44.676	123.490	0.285	148
200	3.635	33.838	26.900	36.028	44.751	115.897	0.345	198
250	3.682	33.910	26.953	36.078	44.797	111.312	0.402	248
300	3.690	33.973	27.002	36.127	44.844	107.036	0.456	297
350	3.666	34.029	27.050	36.174	44.893	102.971	0.509	347
400	3.624	34.076	27.092	36.218	44.938	99.398	0.560	396
450	3.574	34.113	27.126	36.255	44.977	96.489	0.608	446
500	3.509	34.155	27.166	36.298	45.022	93.046	0.656	495
600	3.344	34.225	27.238	36.378	45.110	86.823	0.746	594
700	3.181	34.289	27.305	36.453	45.192	81.035	0.830	693
800	3.032	34.333	27.355	36.510	45.256	76.849	0.909	792
900	2.892	34.369	27.396	36.559	45.312	73.314	0.984	891
1000	2.767	34.397	27.431	36.599	45.359	70.497	1.056	989
1100	2.659	34.423	27.461	36.636	45.401	67.973	1.125	1088
1200	2.536	34.451	27.495	36.676	45.447	65.104	1.191	1187
1300	2.419	34.477	27.526	36.713	45.490	62.413	1.255	1285
1400	2.347	34.493	27.545	36.736	45.517	60.925	1.317	1384
1500	2.257	34.514	27.570	36.766	45.552	58.839	1.377	1482
1600	2.177	34.532	27.591	36.792	45.582	57.057	1.435	1581
1700	2.113	34.546	27.608	36.813	45.606	55.728	1.491	1679
1800	2.048	34.561	27.626	36.834	45.631	54.289	1.546	1778
1900	1.986	34.573	27.641	36.853	45.653	53.082	1.600	1876
2000	1.939	34.584	27.654	36.868	45.671	52.107	1.652	1974
2100	1.892	34.593	27.665	36.883	45.688	51.259	1.704	2073
2200	1.848	34.602	27.676	36.897	45.705	50.429	1.755	2171
2300	1.798	34.612	27.689	36.912	45.723	49.434	1.805	2269
2400	1.758	34.620	27.699	36.925	45.738	48.692	1.854	2367
2500	1.727	34.626	27.706	36.934	45.750	48.196	1.902	2465
2600	1.691	34.632	27.714	36.945	45.762	47.521	1.950	2563
2700	1.656	34.639	27.723	36.956	45.775	46.972	1.998	2661
2800	1.631	34.644	27.729	36.964	45.786	46.588	2.044	2759
2900	1.606	34.648	27.735	36.972	45.795	46.265	2.091	2857
3000	1.585	34.653	27.741	36.979	45.804	45.915	2.137	2955
3100	1.566	34.657	27.747	36.986	45.812	45.656	2.183	3053
3200	1.550	34.660	27.751	36.992	45.819	45.502	2.228	3150
3300	1.535	34.663	27.755	36.997	45.826	45.355	2.274	3248
3400	1.518	34.667	27.760	37.004	45.834	45.101	2.319	3346
3500	1.508	34.670	27.764	37.008	45.839	45.014	2.364	3443
3600	1.501	34.672	27.767	37.012	45.844	45.037	2.409	3541
3700	1.497	34.674	27.769	37.016	45.848	45.103	2.454	3639
3800	1.495	34.675	27.771	37.018	45.851	45.267	2.499	3736
3900	1.497	34.677	27.773	37.021	45.854	45.420	2.545	3834
4000	1.497	34.678	27.775	37.023	45.857	45.612	2.590	3931
4100	1.500	34.680	27.777	37.025	45.860	45.779	2.636	4028
4200	1.504	34.681	27.778	37.027	45.862	46.033	2.682	4126
4300	1.511	34.681	27.778	37.027	45.863	46.406	2.728	4223
4400	1.517	34.682	27.780	37.029	45.865	46.693	2.774	4320
4500	1.526	34.682	27.780	37.029	45.865	47.102	2.821	4417
4600	1.534	34.683	27.781	37.031	45.866	47.424	2.869	4515
4700	1.543	34.684	27.782	37.032	45.868	47.766	2.916	4612
4800	1.553	34.684	27.782	37.032	45.868	48.196	2.964	4709
4900	1.565	34.685	27.783	37.033	45.869	48.593	3.013	4806
5000	1.576	34.685	27.783	37.033	45.869	49.045	3.061	4903
5100	1.588	34.686	27.784	37.034	45.870	49.447	3.111	5000
5198	1.601	34.686	27.784	37.034	45.870	49.934	3.159	5095

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
1	6.987	7.34	106.9	26.4	1.35	14.3	0.18	6.987	25.596	34.575	43.157	1	
31	5.438	7.51	105.5	26.8	1.37	14.6	0.15	5.436	25.789	34.843	43.496	31	
61	4.756	7.34	101.4	27.0	1.42	15.6	0.13	4.752	25.875	34.964	43.649	61	
102	4.033	5.08	69.2	48.4	2.07	27.3	0.08	4.026	26.379	35.496	44.208	102	
149	3.611	3.11	42.0	71.7	2.58	36.7	0.02	3.601	26.773	35.906	44.631	150	
200	3.589	2.16	29.2	83.3	2.82	40.1	0.01	3.576	26.860	35.992	44.718	201	
300	3.691	1.02	13.8	101.0	3.00	43.4	0.01	3.671	26.989	36.113	44.931	302	
392	3.633	0.75	10.2	113.8	3.07	43.9	0.01	3.606	27.086	36.211	44.931	395	
491	3.513	0.67	9.1	124.2	3.06	43.8	0.01	3.480	27.167	36.297	45.022	495	
599	3.304	0.63	8.5	134.7	3.06	43.8	0.00	3.264	27.252	36.393	45.127	604	
688	3.190	0.66	8.9	139.7	3.06	43.8	0.00	3.144	27.300	36.447	45.186	694	
801	3.007	0.58	7.7	147.6	3.07	44.1	0.00	2.953	27.365	36.521	45.259	808	
900	2.869	0.56	7.5	154.3	3.11	44.4	0.00	2.809	27.406	36.569	45.323	908	
1007	2.733	0.50	6.6	159.8	3.12	44.6	0.00	2.666	27.442	36.613	45.374	1017	
1252	2.452	0.51	6.7	171.0	3.12	44.9	0.00	2.369	27.519	36.704	45.479	1265	
1499	2.227	0.72	9.4	178.4	3.08	44.5	0.00	2.127	27.579	36.777	45.564	1516	
1753	2.071	0.93	12.1	182.0	3.04	44.1	0.00	1.952	27.621	36.828	45.623	1774	
1972	1.946	1.19	15.5	196.6	3.00	43.5	0.00	1.811	27.654	36.868	45.670	1997	
2497	1.728	1.89	24.4	185.5	2.88	41.5	0.00	1.550	27.708	36.936	45.751	2531	
2985	1.590	2.51	32.3	181.1	2.75	39.8	0.00	1.369	27.743	36.980	45.805	3030	
3483	1.507	2.98	38.2	175.5	2.65	38.4	0.00	1.237	27.766	37.011	45.842	3540	
3962	1.497	3.20	40.9	174.6		37.8	0.00	1.175	27.777	37.025	45.859	4031	
4513	1.533	3.30	42.2	178.2		37.8	0.00	1.146	27.782	37.032	45.868	4597	
5094	1.600	3.35	42.8	182.3	2.57	37.6	0.00	1.139	27.785	37.035	45.872	5196	

MARATHON 2 STA. 78

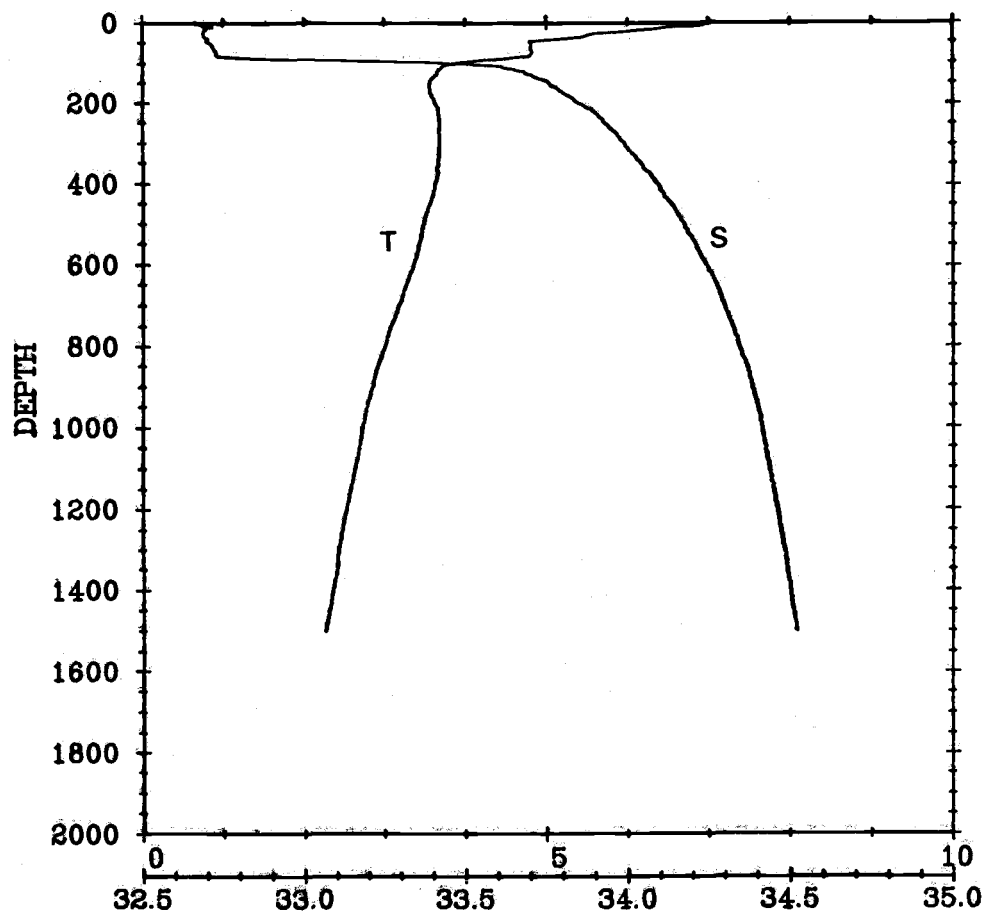
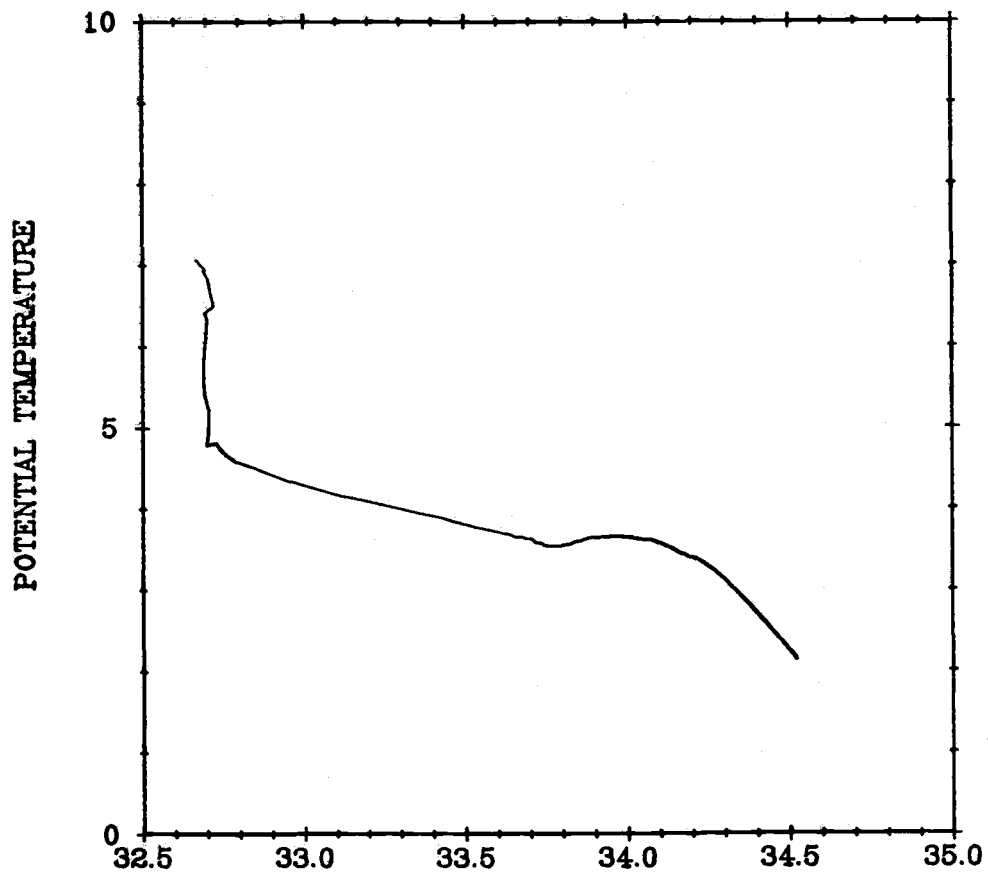


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
50 42.4N	152 0.7W	5/29/84	418	4993	270	11	8.3	7.2	1024.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.923	32.686	6.923	25.607	34.589	43.174	237.052	0.000	0
20	6.083	32.695	6.081	25.722	34.744	43.367	226.368	0.046	19
40	5.188	32.699	5.185	25.831	34.897	43.562	216.164	0.091	39
60	4.809	32.718	4.805	25.888	34.974	43.656	210.883	0.133	59
80	4.734	32.762	4.728	25.931	35.020	43.705	206.958	0.175	79
100	3.991	33.327	3.984	26.457	35.575	44.288	157.091	0.211	99
150	3.559	33.756	3.549	26.841	35.975	44.702	120.984	0.281	148
200	3.627	33.852	3.614	26.911	36.041	44.763	114.766	0.340	198
250	3.679	33.932	3.662	26.970	36.096	44.814	109.629	0.396	248
300	3.681	33.989	3.661	27.016	36.140	44.858	105.745	0.450	297
350	3.654	34.040	3.630	27.060	36.185	44.904	102.024	0.502	347
400	3.620	34.091	3.593	27.104	36.230	44.950	98.233	0.552	396
450	3.549	34.133	3.519	27.144	36.274	44.997	94.735	0.600	446
500	3.475	34.172	3.441	27.183	36.316	45.042	91.424	0.647	495
600	3.352	34.240	3.312	27.250	36.388	45.120	85.785	0.735	594
700	3.178	34.296	3.131	27.311	36.459	45.198	80.482	0.818	693
800	3.003	34.342	2.950	27.365	36.521	45.269	75.874	0.897	792
900	2.847	34.381	2.789	27.410	36.574	45.330	71.947	0.971	891
1000	2.719	34.410	2.653	27.445	36.616	45.378	69.020	1.041	989
1100	2.629	34.433	2.557	27.472	36.648	45.414	66.908	1.109	1088
1200	2.525	34.456	2.446	27.500	36.681	45.453	64.614	1.175	1187
1300	2.428	34.478	2.342	27.526	36.713	45.489	62.438	1.238	1285
1400	2.350	34.496	2.258	27.547	36.738	45.519	60.737	1.300	1384
1500	2.261	34.516	2.162	27.571	36.767	45.552	58.737	1.360	1482
1520	2.243	34.520	2.142	27.576	36.773	45.559	58.330	1.371	1502

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSLN	DEG C				DB
53	4.815	32.725	7.30	101.0	28.4	1.50	16.6	0.12		4.811	25.893	34.978	43.659	53
105	3.705	33.613	3.38	45.8	64.6	2.54	35.6	0.02		3.698	26.713	35.841	44.563	105
137	3.558	33.755	2.31	31.2	78.7	2.80	39.8	0.01		3.549	26.840	35.974	44.701	138
170	3.583	33.815	1.81	24.5	84.1	2.88	41.7	0.01		3.572	26.886	36.018	44.743	171
201	3.667	33.885	1.30	17.6	91.5	2.96	42.8	0.01		3.654	26.934	36.060	44.780	202
252	3.679	33.950	0.98	13.3	99.2	3.04	44.0	0.01		3.662	26.985	36.110	44.828	254
304	3.679	34.004	0.89	12.1	103.8	3.06	44.0	0.01		3.658	27.028	36.152	44.870	306
404	3.604	34.097	0.82	11.1	112.0	3.02	43.7	0.01		3.577	27.110	36.237	44.958	407
507	3.470	34.174	0.70	9.5	121.4	3.04	43.9	0.00		3.436	27.185	36.318	45.044	511
606	3.357	34.238	0.65	8.8	128.4	3.05	43.9	0.00		3.316	27.248	36.386	45.117	611
706	3.157	34.301	0.56	7.5	138.1	3.08	44.2	0.00		3.110	27.317	36.465	45.206	712
805	2.990	34.345	0.54	7.2	144.5	3.10	44.5	0.00		2.936	27.368	36.525	45.273	812
904	2.838	34.383	0.48	6.4	151.3	3.11	44.7	0.00		2.778	27.412	36.577	45.333	913
991	2.726	34.410	0.47	6.2	156.1	3.11	44.8	0.00		2.660	27.444	36.615	45.375	1001
1242	2.464	34.470	0.49	6.5	165.8		45.0	0.00		2.382	27.516	36.701	45.476	1255
1501	2.241	34.519	0.70	9.2	172.8		44.7	0.00		2.141	27.575	36.772	45.558	1518

MARATHON 2 STA. 79

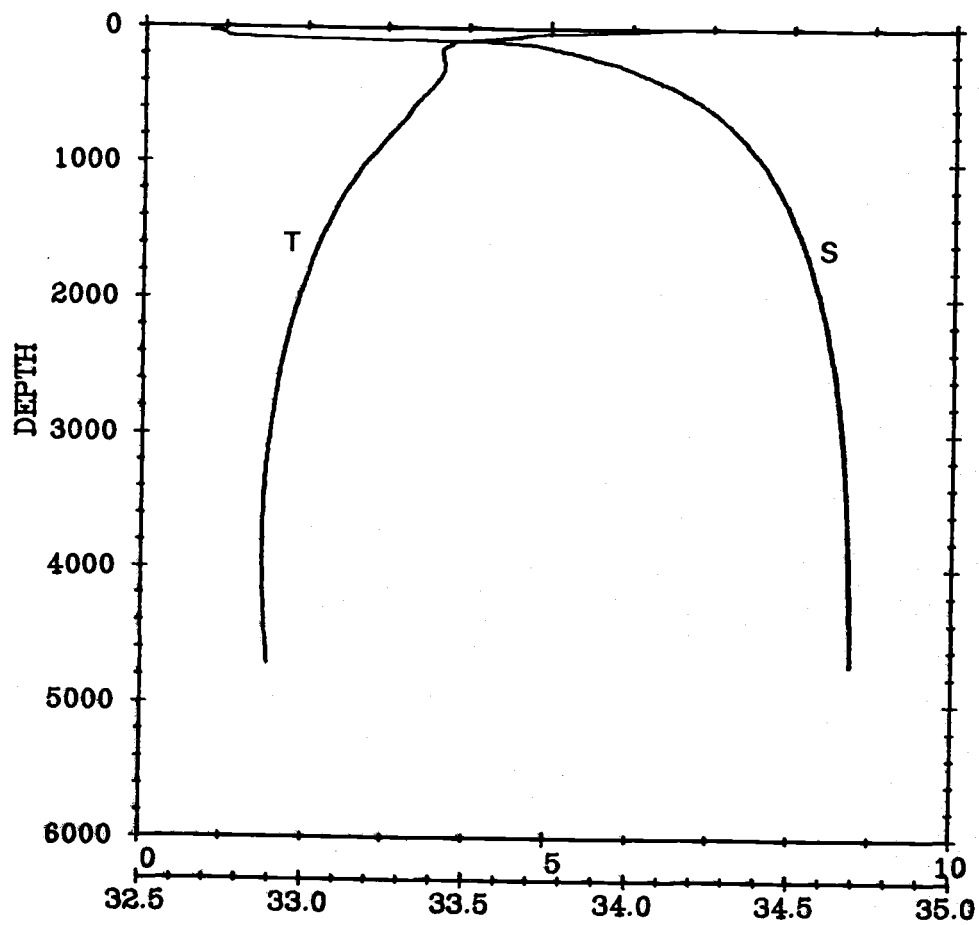
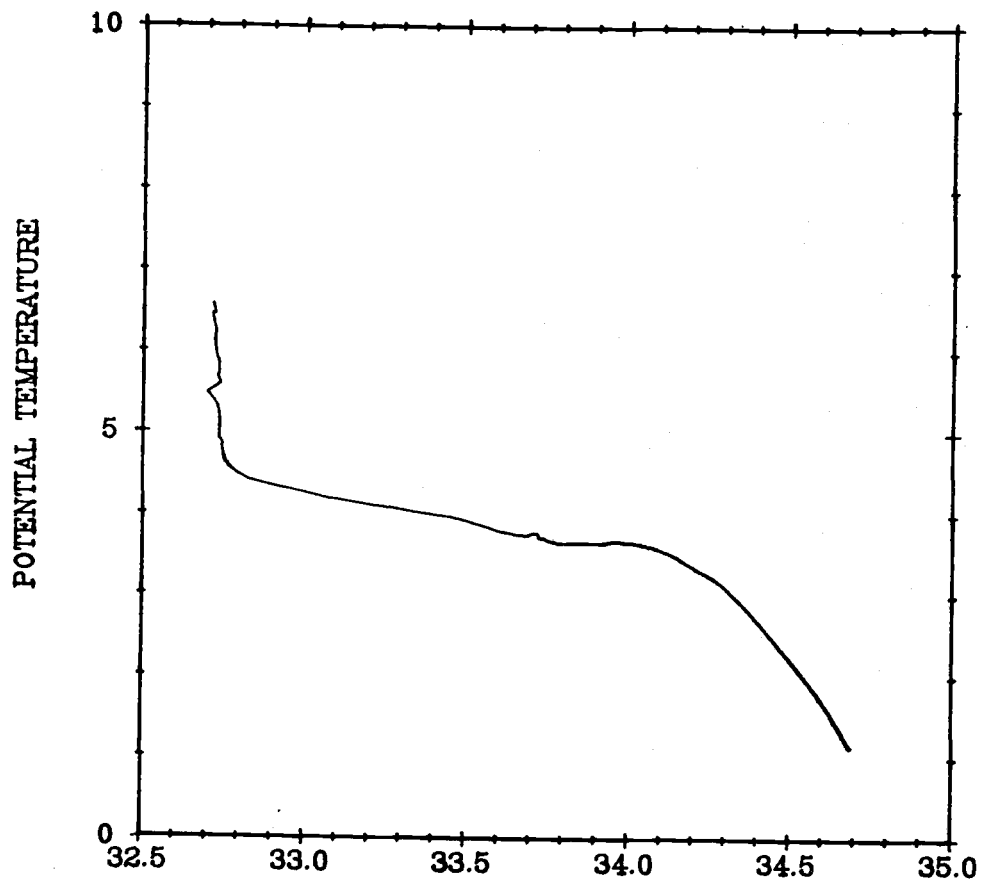


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
51 9.7N	152 0.0W	5/29/84	1012	4781	270	15	6.7	6.1	1024.7

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON			M
0	6.557	32.716	6.557	25.678	34.678	43.279	230.251	0.000		0
20	6.110	32.725	6.108	25.742	34.763	43.384	224.435	0.045		19
40	5.201	32.735	5.198	25.858	34.923	43.586	213.597	0.089		39
60	4.671	32.758	4.667	25.934	35.026	43.714	206.442	0.131		59
80	4.361	32.912	4.355	26.089	35.195	43.896	191.857	0.171		79
100	3.974	33.411	3.967	26.526	35.643	44.355	150.597	0.205		99
150	3.709	33.750	3.699	26.822	35.948	44.668	122.869	0.274		148
200	3.659	33.841	3.656	26.899	36.026	44.746	116.001	0.333		198
250	3.678	33.914	3.661	26.956	36.082	44.801	110.972	0.390		247
300	3.691	33.984	3.671	27.011	36.135	44.853	106.220	0.444		297
350	3.659	34.035	3.645	27.054	36.179	44.897	102.551	0.497		347
400	3.615	34.086	3.588	27.100	36.227	44.947	98.557	0.547		396
450	3.547	34.131	3.517	27.143	36.273	44.996	94.864	0.595		446
500	3.470	34.167	3.436	27.179	36.313	45.039	91.747	0.642		495
600	3.317	34.237	3.277	27.250	36.391	45.124	85.647	0.731		594
700	3.158	34.289	3.141	27.304	36.452	45.191	81.108	0.814		693
800	3.034	34.333	2.981	27.354	36.509	45.256	76.870	0.893		792
900	2.895	34.369	2.836	27.396	36.558	45.312	73.346	0.968		891
1000	2.741	34.404	2.675	27.438	36.608	45.369	69.700	1.040		989
1100	2.624	34.432	2.552	27.471	36.648	45.414	66.929	1.108		1088
1200	2.511	34.456	2.432	27.501	36.683	45.455	64.462	1.174		1187
1300	2.405	34.479	2.320	27.528	36.717	45.494	62.111	1.237		1285
1400	2.325	34.498	2.233	27.551	36.743	45.525	60.311	1.298		1384
1500	2.244	34.515	2.145	27.572	36.769	45.555	58.618	1.358		1482
1600	2.170	34.532	2.064	27.592	36.793	45.583	56.978	1.415		1581
1700	2.101	34.547	1.988	27.610	36.815	45.609	55.515	1.472		1679
1800	2.045	34.560	1.925	27.625	36.833	45.630	54.328	1.527		1778
1900	1.992	34.572	1.864	27.640	36.851	45.651	53.228	1.580		1876
2000	1.929	34.585	1.794	27.655	36.870	45.674	51.913	1.633		1974
2100	1.880	34.595	1.737	27.667	36.886	45.692	50.966	1.684		2072
2200	1.833	34.604	1.682	27.679	36.900	45.709	50.097	1.735		2171
2300	1.793	34.612	1.634	27.689	36.913	45.724	49.371	1.785		2269
2400	1.755	34.620	1.588	27.699	36.925	45.738	48.654	1.834		2367
2500	1.717	34.627	1.542	27.708	36.936	45.752	47.994	1.882		2465
2600	1.681	34.634	1.500	27.717	36.948	45.765	47.371	1.930		2563
2700	1.653	34.639	1.467	27.731	36.956	45.776	46.932	1.977		2661
2800	1.628	34.645	1.427	27.731	36.965	45.787	46.475	2.024		2759
2900	1.603	34.649	1.394	27.736	36.973	45.796	46.152	2.070		2857
3000	1.581	34.653	1.362	27.742	36.980	45.805	45.860	2.116		2955
3100	1.561	34.658	1.333	27.748	36.987	45.814	45.514	2.162		3052
3200	1.539	34.662	1.302	27.753	36.995	45.822	45.202	2.207		3150
3300	1.524	34.666	1.277	27.758	37.001	45.830	44.982	2.252		3248
3400	1.514	34.668	1.258	27.761	37.005	45.835	44.971	2.297		3346
3500	1.504	34.671	1.238	27.765	37.010	45.841	44.883	2.342		3443
3600	1.500	34.673	1.224	27.767	37.013	45.845	44.951	2.387		3541
3700	1.493	34.675	1.206	27.770	37.017	45.850	44.971	2.432		3638
3800	1.490	34.677	1.193	27.773	37.020	45.854	45.048	2.477		3736
3900	1.491	34.679	1.183	27.775	37.023	45.857	45.185	2.522		3833
4000	1.492	34.680	1.173	27.776	37.025	45.859	45.391	2.567		3931
4100	1.496	34.681	1.166	27.778	37.026	45.861	45.645	2.613		4028
4200	1.501	34.682	1.160	27.779	37.028	45.863	45.914	2.658		4125
4300	1.506	34.684	1.154	27.781	37.031	45.866	46.113	2.704		4223
4400	1.513	34.684	1.149	27.781	37.031	45.867	46.487	2.751		4320
4500	1.521	34.685	1.145	27.783	37.032	45.868	46.807	2.797		4417
4600	1.531	34.685	1.143	27.783	37.033	45.869	47.233	2.844		4514
4700	1.541	34.686	1.141	27.784	37.034	45.870	47.592	2.892		4611
4800	1.552	34.686	1.140	27.784	37.034	45.870	48.039	2.940		4708
4868	1.561	34.685	1.141	27.783	37.033	45.869	48.441	2.972		4774

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIG3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	6.584	32.722	7.43	107.2	28.8	1.41	0.14	0.14	6.584	25.679	34.677	43.277		1
21	6.121	32.726	7.56	107.9	29.2	1.41	0.14	0.14	6.119	25.741	34.761	43.382		21
52	4.770	32.753	7.33	101.3	30.6	1.54	0.12	0.12	4.766	25.920	35.007	43.690		52
102	3.959	33.470	3.75	51.1	59.7	2.45	0.04	0.04	3.952	26.574	35.691	44.403		102
147	3.728	33.745	2.41	32.7	75.4	2.81	0.01	0.01	3.718	26.816	35.941	44.660		148
198	3.669	33.841	1.54	20.9	87.9	2.97	0.00	0.00	3.656	26.898	36.025	44.746		199
297	3.691	33.985	0.97	13.2	102.4	3.07	0.00	0.00	3.671	27.012	36.135	44.853		299
393	3.619	34.084	0.82	11.1	112.9	3.08	0.00	0.00	3.592	27.098	36.224	44.945		396
497	3.467	34.171	0.71	9.6	124.0	3.08	0.00	0.00	3.433	27.183	36.316	45.043		501
595	3.320	34.238	0.69	9.3	131.1	3.09	0.00	0.00	3.280	27.251	36.391	45.124		600
693	3.192	34.291	0.63	8.5	137.0	3.09	0.00	0.00	3.145	27.306	36.452	45.191		699
790	3.043	34.333	0.56	7.5	143.4	3.12	0.00	0.00	2.990	27.354	36.508	45.254		797
886	2.903	34.371	0.47	6.3	150.0	3.16	0.00	0.00	2.844	27.397	36.558	45.311		894
1015	2.706	34.416	0.43	5.7	159.5	3.16	0.00	0.00	2.639	27.451	36.623	45.385		1025
1239	2.453	34.472	0.52	6.9	166.6	3.14	0.00	0.00	2.371	27.519	36.704	45.479		1252
1503	2.230	34.522	0.77	10.1	173.2	3.11	0.00	0.00	2.130	27.578	36.776	45.563		1520
1729	2.075	34.557	0.98	12.8	176.1	3.06	0.00	0.00	1.958	27.620	36.825	45.622		1750
2028	1.906	34.593	1.32	17.1	181.2	3.00	0.00	0.00	1.767	27.664	36.880	45.685		2054
2505	1.706	34.632	1.97	25.4	181.2	2.89	0.00	0.00	1.528	27.713	36.942	45.758		2540
3011	1.568	34.659	2.61	33.5	178.5	2.74	0.00	0.00	1.344	27.748	36.986	45.812		3057
3497	1.501	34.674	3.04	38.9			0.00	0.00	1.230	27.768	37.013	45.844		3554
3988	1.494	34.681	3.22	41.2	172.6		0.00	0.00	1.169	27.778	37.026	45.861		4058
4476	1.527	34.686	3.32	42.4	176.0		0.00	0.00	1.145	27.783	37.033	45.869		4560
4774	1.561	34.688	3.38	43.2	179.9	2.60	0.00	0.00	1.141	27.785	37.035	45.871		4867

MARATHON 2 STA. 80



R/V THOMAS WASHINGTON MARATHON LEG II STATION 81

LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
51 40.9N	151 59.4W	5/29/84	1648	4695	270	15	5.6	5.6	1024.0

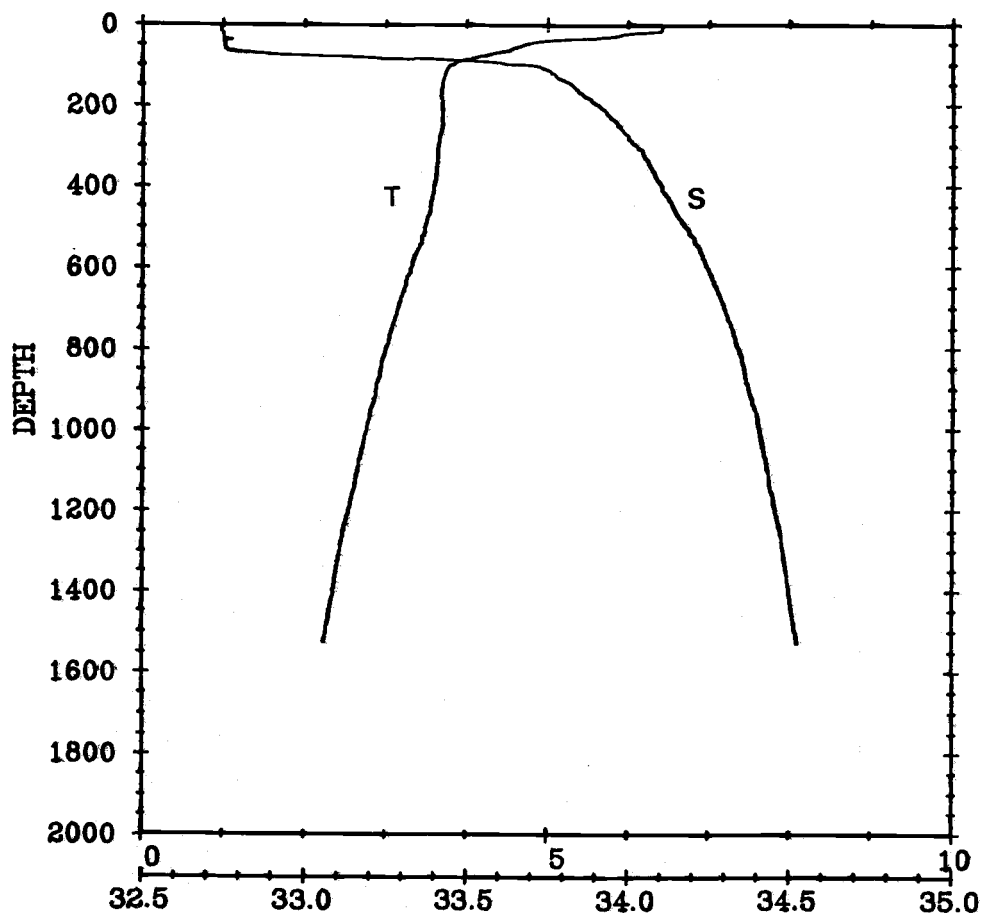
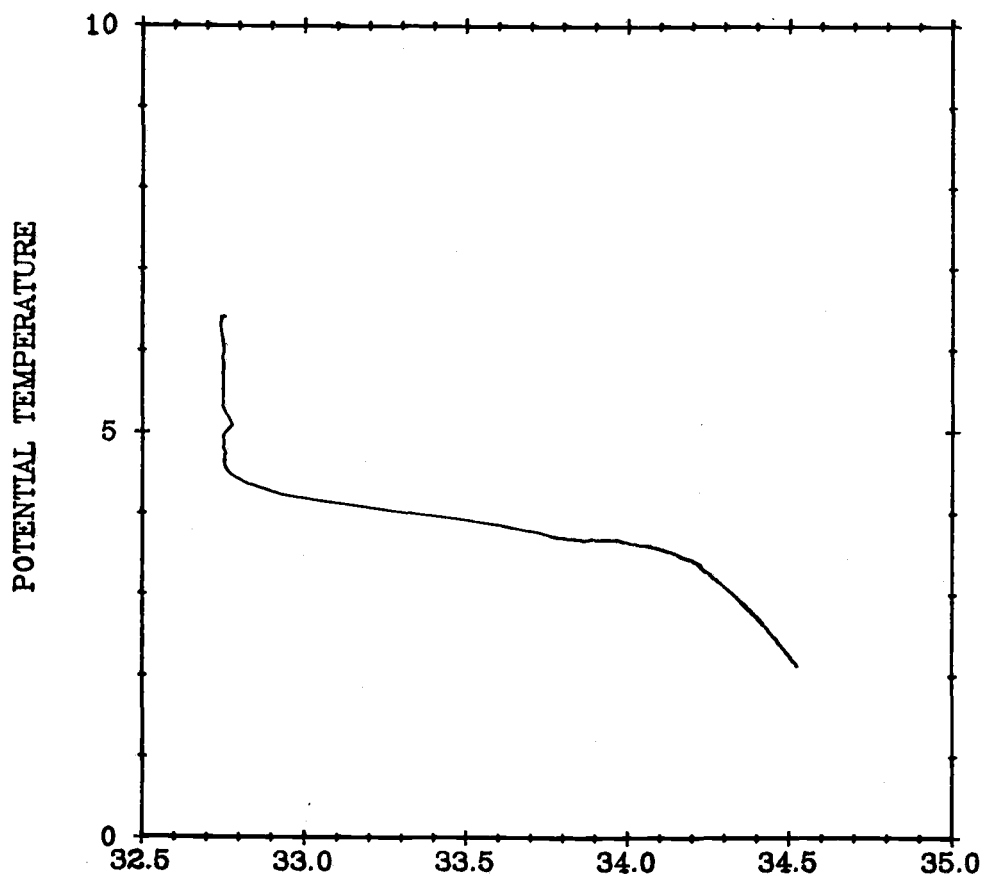
CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
0	6.408	32.746	6.408	25.721	34.727	43.334	226.190	0.000	0
20	6.109	32.747	6.107	25.760	34.780	43.401	222.771	0.045	19
40	5.101	32.755	5.098	25.885	34.955	43.623	211.015	0.089	39
60	4.550	32.772	4.546	25.958	35.057	43.750	204.151	0.130	59
80	4.134	33.132	4.129	26.287	35.401	44.109	173.032	0.168	79
100	3.826	33.647	3.819	26.728	35.850	44.565	131.381	0.198	99
150	3.699	33.827	3.689	26.984	36.010	44.729	116.975	0.260	148
200	3.694	33.906	3.681	26.948	36.073	44.791	111.356	0.317	198
250	3.692	33.970	3.675	26.999	36.123	44.841	106.902	0.372	247
300	3.648	34.024	3.628	27.047	36.173	44.892	102.787	0.424	297
350	3.626	34.067	3.603	27.084	36.210	44.930	99.717	0.475	347
400	3.595	34.100	3.568	27.113	36.241	44.962	97.304	0.524	396
450	3.553	34.136	3.523	27.146	36.276	44.999	94.551	0.572	446
500	3.489	34.176	3.455	27.185	36.317	45.042	91.268	0.618	495
600	3.316	34.243	3.276	27.255	36.396	45.129	85.189	0.707	594
700	3.154	34.297	3.108	27.314	36.463	45.204	80.157	0.789	693
800	3.012	34.339	2.959	27.361	36.517	45.265	76.192	0.867	792
900	2.889	34.371	2.830	27.398	36.561	45.314	73.134	0.942	891
1000	2.762	34.404	2.696	27.436	36.605	45.365	69.924	1.014	989
1100	2.654	34.430	2.582	27.467	36.642	45.407	67.400	1.082	1088
1200	2.552	34.452	2.473	27.494	36.674	45.445	65.205	1.149	1187
1300	2.439	34.478	2.353	27.525	36.711	45.487	62.559	1.213	1285
1400	2.360	34.495	2.268	27.546	36.736	45.516	60.922	1.274	1384
1500	2.275	34.514	2.176	27.568	36.764	45.548	59.042	1.334	1482
1546	2.228	34.524	2.126	27.580	36.778	45.565	57.985	1.361	1528

NISKIN BOTTLE DATA

DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TU81N	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
3	6.377	32.747	7.42	106.6	28.7	1.44	15.2	0.17	6.377	25.726	34.733	43.342	3	
11	6.351	32.747	7.39	106.1	28.7	1.43	15.2	0.17	6.350	25.729	34.738	43.348	11	
49	4.685	32.756	7.41	102.2	30.5	1.51	16.6	0.13	4.681	25.931	35.022	43.710	49	
99	3.818	33.664	2.78	37.8	70.2	2.56	38.1	0.01	3.811	26.742	35.864	44.580	99	
146	3.701	33.821	1.63	22.1	83.8	2.92	42.8	0.00	3.691	26.879	36.004	44.724	147	
199	3.681	33.899	1.15	15.6	91.9	3.21	44.1	0.00	3.670	26.943	36.068	44.787	200	
299	3.655	34.011	0.84	11.4	105.5	3.07	44.9	0.00	3.635	27.036	36.161	44.880	301	
397	3.593	34.102	0.78	10.6	114.6	3.05	44.7	0.00	3.566	27.115	36.242	44.964	400	
491	3.486	34.178	0.70	9.5	123.0	3.05	44.7	0.00	3.453	27.187	36.319	45.044	495	
591	3.291	34.249	0.59	7.9	132.1	3.09	45.1	0.00	3.251	27.262	36.404	45.138	596	
690	3.155	34.295	0.59	7.9	138.7	3.09	45.1	0.00	0.34	3.109	27.312	36.461	696	
793	3.020	34.335	0.54	7.2	142.2	3.11	45.2	0.00	0.10	2.967	27.357	36.512	800	
897	2.885	34.371	0.51	6.8	145.2	3.13	45.5	0.00	0.14	2.825	27.399	36.561	906	
976	2.770	34.402	0.47	6.2	152.6	3.13	45.9	0.00		2.705	27.434	36.602	986	
1234	2.470	34.469	0.51	6.7	164.8	3.12	45.9	0.00		2.388	27.515	36.699	1247	
1524	2.232	34.524	0.75	9.8	172.4		45.4	0.00	2.130	27.580	36.777	45.564	1541	

MARATHON 2 STA. 81

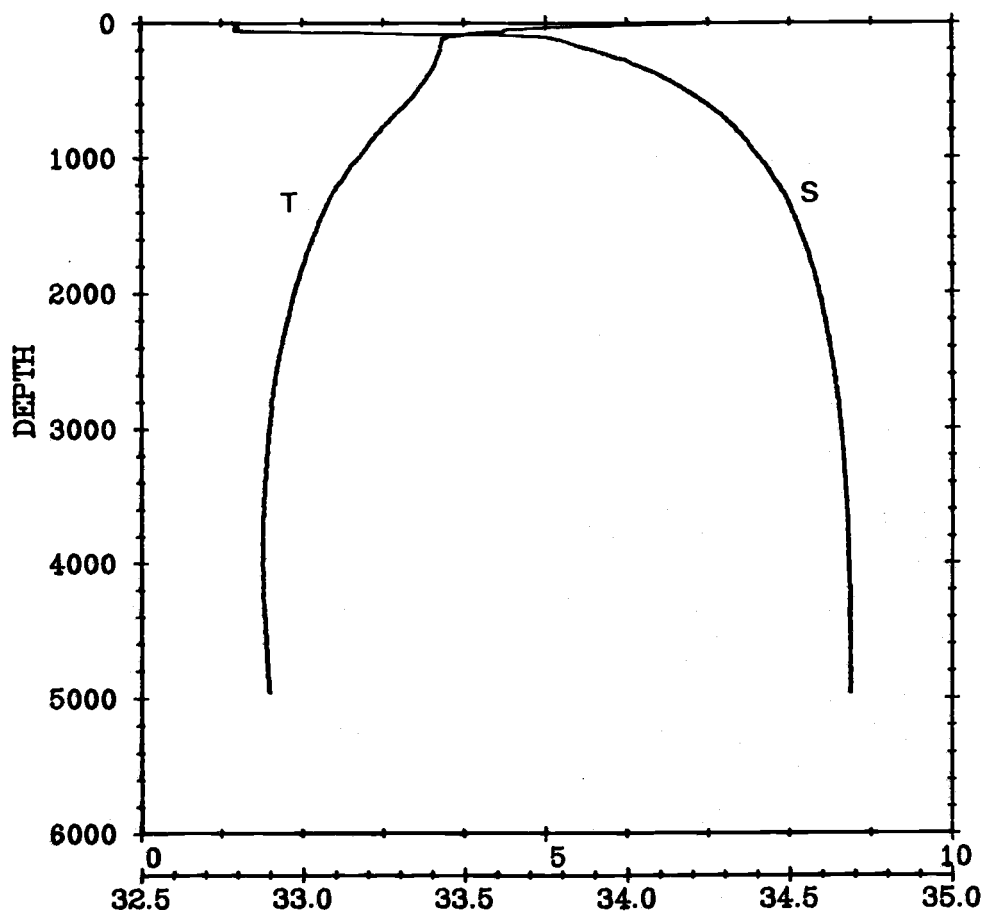
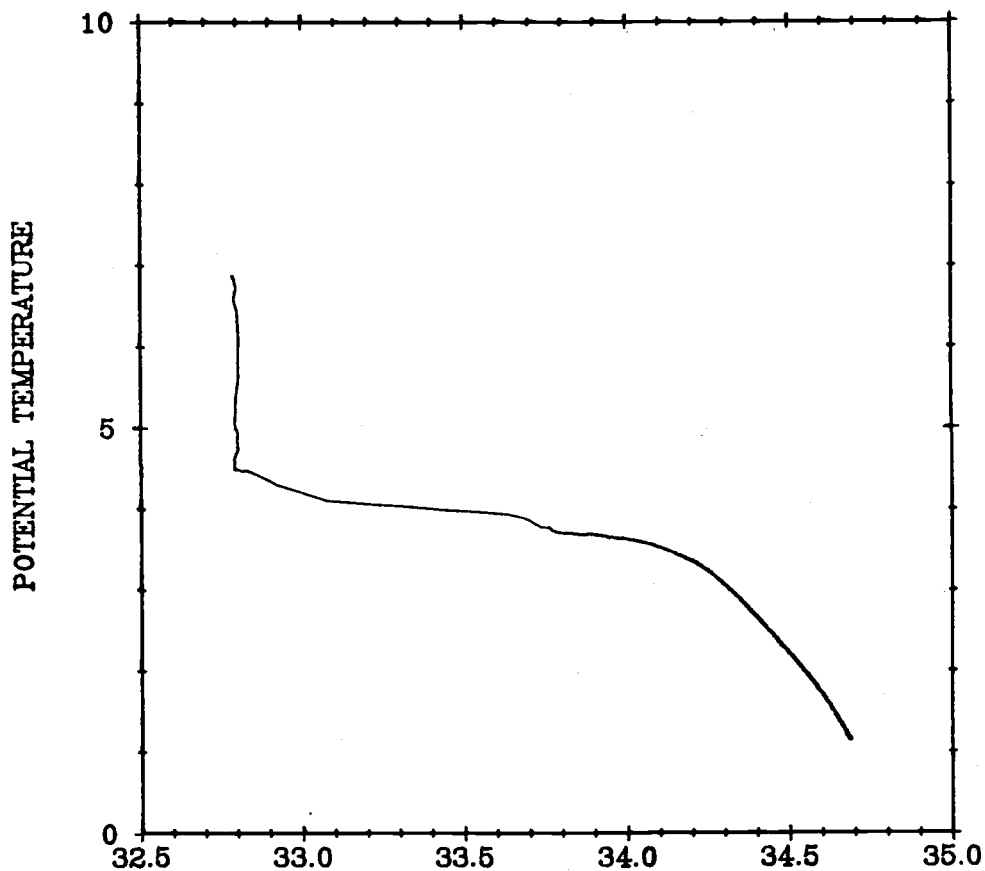


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
52 4.7N	151 58.2W	5/29/84	2324	4965	270	15	8.9	7.8	1023.4

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	6.865	32.789	6.865	25.696	34.679	43.265	228.609	0.000	0
20	6.130	32.798	6.128	25.797	34.816	43.435	219.196	0.045	19
40	4.898	32.797	4.895	25.941	35.020	43.697	205.699	0.087	39
60	4.466	32.828	4.462	26.012	35.113	43.810	199.084	0.128	59
80	4.083	33.251	4.078	26.387	35.502	44.211	163.566	0.164	79
100	3.864	33.683	3.857	26.753	35.872	44.585	129.038	0.193	99
150	3.717	33.821	3.707	26.878	36.002	44.721	117.600	0.255	148
200	3.707	33.889	3.694	26.933	36.057	44.775	112.761	0.313	198
250	3.673	33.952	3.656	26.987	36.112	44.831	108.067	0.368	247
300	3.645	34.012	3.625	27.038	36.164	44.883	103.658	0.421	297
350	3.604	34.060	3.581	27.080	36.208	44.929	100.020	0.472	347
400	3.551	34.105	3.524	27.122	36.251	44.974	96.483	0.521	396
450	3.492	34.144	3.462	27.159	36.291	45.017	93.330	0.568	446
500	3.432	34.178	3.399	27.192	36.327	45.055	90.534	0.614	495
600	3.298	34.240	3.258	27.255	36.396	45.130	85.227	0.702	594
700	3.124	34.295	3.078	27.315	36.466	45.208	79.996	0.785	693
800	2.977	34.337	2.924	27.363	36.520	45.270	75.975	0.863	792
900	2.828	34.374	2.769	27.406	36.572	45.328	72.268	0.937	890
1000	2.708	34.403	2.643	27.440	36.612	45.375	69.423	1.008	989
1100	2.567	34.437	2.495	27.480	36.660	45.429	65.947	1.075	1088
1200	2.458	34.462	2.380	27.510	36.695	45.470	63.443	1.140	1187
1300	2.345	34.488	2.260	27.541	36.732	45.512	60.789	1.202	1285
1400	2.270	34.506	2.178	27.562	36.757	45.542	59.110	1.262	1384
1500	2.196	34.523	2.098	27.582	36.781	45.570	57.489	1.320	1482
1600	2.132	34.539	2.026	27.600	36.803	45.595	56.029	1.377	1581
1700	2.066	34.554	1.953	27.618	36.825	45.621	54.597	1.432	1679
1800	2.015	34.565	1.895	27.631	36.842	45.640	53.609	1.486	1777
1900	1.957	34.578	1.830	27.647	36.860	45.662	52.372	1.539	1876
2000	1.906	34.588	1.771	27.659	36.876	45.680	51.416	1.591	1974
2100	1.863	34.598	1.720	27.671	36.890	45.697	50.539	1.642	2072
2200	1.824	34.606	1.673	27.681	36.903	45.712	49.840	1.693	2170
2300	1.784	34.614	1.626	27.691	36.915	45.727	49.112	1.742	2269
2400	1.746	34.621	1.579	27.700	36.927	45.741	48.466	1.791	2367
2500	1.708	34.628	1.533	27.709	36.938	45.755	47.805	1.839	2465
2600	1.677	34.635	1.494	27.718	36.949	45.767	47.220	1.886	2563
2700	1.654	34.639	1.462	27.723	36.956	45.776	46.945	1.934	2661
2800	1.630	34.644	1.429	27.730	36.964	45.786	46.574	1.980	2759
2900	1.609	34.648	1.399	27.735	36.971	45.794	46.306	2.027	2856
3000	1.586	34.653	1.367	27.741	36.979	45.804	45.929	2.073	2954
3100	1.570	34.657	1.342	27.746	36.986	45.811	45.712	2.119	3052
3200	1.556	34.660	1.319	27.750	36.991	45.818	45.588	2.164	3150
3300	1.543	34.663	1.296	27.754	36.996	45.824	45.471	2.210	3248
3400	1.531	34.666	1.274	27.758	37.001	45.830	45.363	2.255	3345
3500	1.521	34.668	1.254	27.761	37.005	45.836	45.349	2.301	3443
3600	1.514	34.671	1.237	27.765	37.010	45.841	45.304	2.346	3540
3700	1.507	34.673	1.220	27.768	37.014	45.846	45.326	2.391	3638
3800	1.503	34.675	1.206	27.770	37.017	45.850	45.390	2.437	3735
3900	1.503	34.677	1.195	27.773	37.020	45.853	45.514	2.482	3833
4000	1.504	34.678	1.185	27.774	37.022	45.856	45.723	2.528	3930
4100	1.505	34.679	1.175	27.776	37.024	45.858	45.930	2.574	4028
4200	1.509	34.681	1.158	27.778	37.026	45.861	46.114	2.620	4125
4300	1.512	34.682	1.159	27.779	37.028	45.863	46.353	2.666	4222
4400	1.520	34.682	1.156	27.779	37.029	45.864	46.743	2.712	4319
4500	1.529	34.682	1.153	27.780	37.029	45.865	47.152	2.759	4416
4600	1.537	34.683	1.149	27.781	37.030	45.866	47.476	2.807	4514
4700	1.547	34.683	1.147	27.781	37.031	45.866	47.904	2.854	4611
4800	1.557	34.684	1.145	27.782	37.032	45.867	48.265	2.902	4708
4900	1.567	34.684	1.143	27.782	37.032	45.868	48.698	2.951	4805
5000	1.577	34.684	1.140	27.782	37.032	45.868	49.132	3.000	4902
5056	1.584	34.683	1.140	27.781	37.031	45.868	49.470	3.027	4956

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU8IN	DEG C				DB
1	6.878	32.798	7.33	106.6	28.8	1.43	15.8	0.18	6.878	25.701	34.684	43.269	1
8	6.888	32.798	7.35	106.9	28.3	1.43	15.8	0.18	6.887	25.700	34.682	43.267	8
37	5.005	32.799	7.51	104.4	27.2	1.45	16.0	0.19	5.002	25.930	35.005	43.676	37
67	4.490	32.834	7.24	99.5	31.3	1.60	18.2	0.18	4.485	26.014	35.114	43.810	67
130	3.718	33.800	1.71	23.2	82.5	2.90	42.0	0.01	3.709	26.861	35.985	44.704	130
195	3.707	33.883	1.06	14.4	92.5	3.03	44.3	0.01	3.694	26.928	36.052	44.771	196
294	3.646	34.011	0.71	9.6	105.6	3.09	45.0	0.01	3.626	27.037	36.162	44.882	296
394	3.556	34.105	0.63	8.5	117.3	3.09	44.8	0.01	3.529	27.121	36.250	44.973	397
435	3.434	34.180	0.58	7.8	125.5	3.09	44.9	0.00	3.401	27.193	36.328	45.056	499
597	3.298	34.244	0.46	6.2	133.6	3.10	45.1	0.00	3.258	27.258	36.399	45.133	602
698	3.120	34.300	0.51	6.8	140.0	3.10	44.9	0.00	3.073	27.320	36.470	45.212	704
794	2.979	34.340	0.51	6.8	145.8	3.10	45.0	0.00	2.926	27.365	36.522	45.271	801
897	2.824	34.379	0.47	6.3	151.5	3.12	45.1	0.00	2.765	27.410	36.576	45.333	906
993	2.707	34.407	0.50	6.6	156.7	3.12	45.2	0.00	2.641	27.443	36.615	45.378	1003
1206	2.434	34.470	0.58	7.6	166.6	3.11	44.9	0.00	2.355	27.518	36.704	45.481	1219
1493	2.188	34.529	0.83	10.9	174.5	3.06	44.5	0.00	2.089	27.587	36.787	45.576	1510
1743	2.032	34.565	1.10	14.3	177.6	3.01	43.9	0.00	1.915	27.630	36.838	45.636	1764
1980	1.903	34.592			179.7	2.95	43.2	0.00	1.768	27.663	36.879	45.684	2005
2486	1.700	34.632	2.01	25.9	180.0	2.84	41.4	0.00	1.524	27.713	36.942	45.759	2521
2993	1.583	34.656	2.55	32.8	177.2	2.74	39.9	0.00	1.362	27.744	36.982	45.807	3028
3570	1.510	34.676	3.01	38.6	174.6	2.63	38.6	0.00	1.231	27.769	37.014	45.846	3629
3967	1.504	34.680	3.21	41.1	173.6	2.59	38.1	0.00	1.181	27.776	37.024	45.858	4037
4455	1.533	34.685	3.31	42.3	176.0		37.9	0.00	1.152	27.782	37.031	45.867	4549
4956	1.584	34.685	3.34	42.7	174.9	2.56	37.5	0.00	1.141	27.783	37.033	45.869	5055

MARATHON 2 STA. 82



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
52 32.0N	152 0.6W	5/30/84	530	4467	270	16	6.7	6.1	1022.4

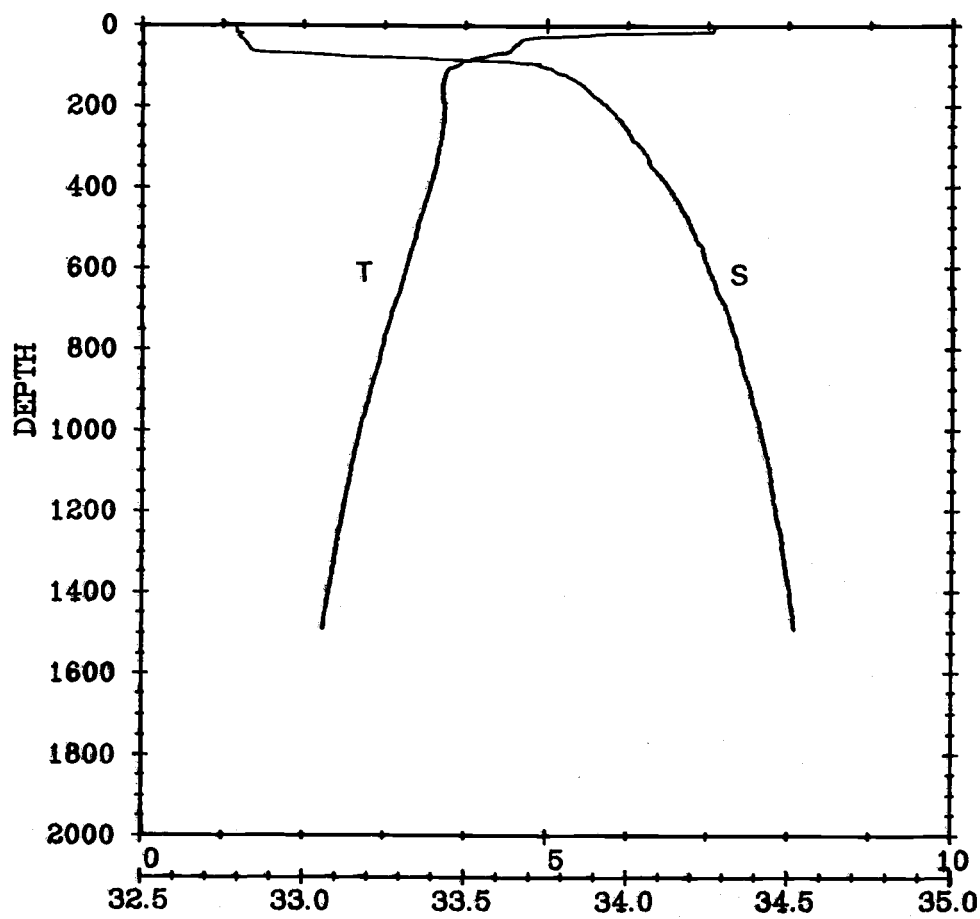
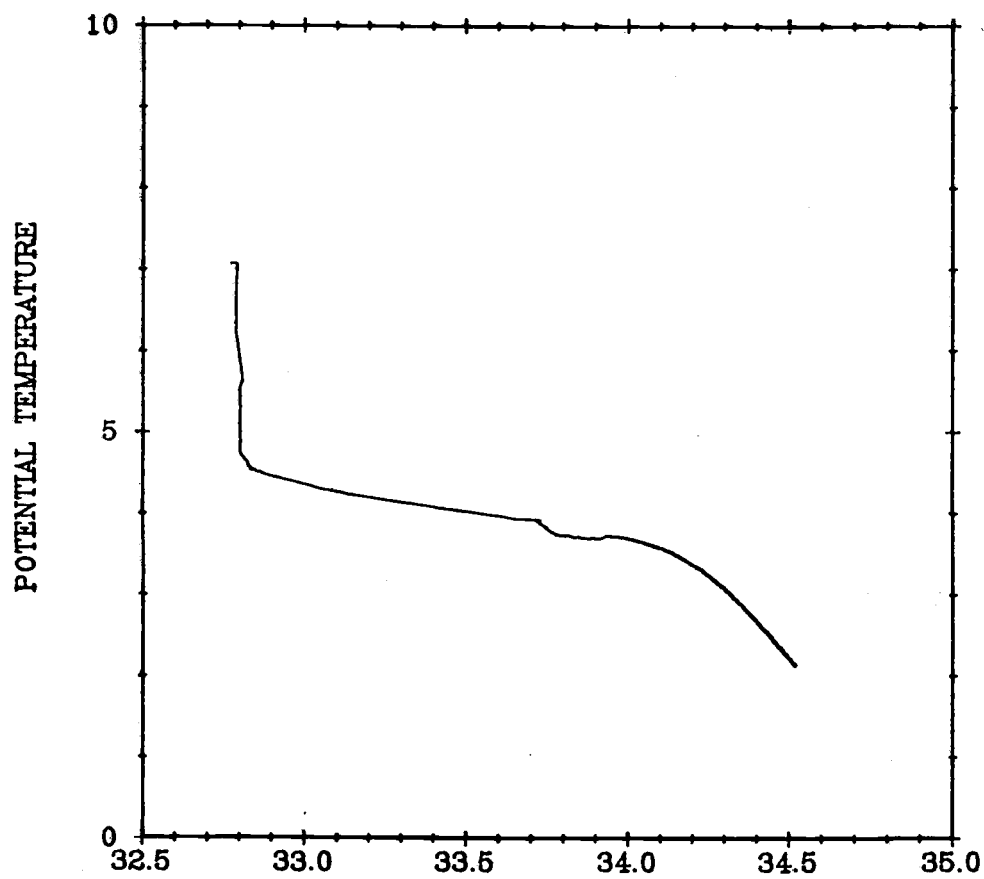
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	7.063	32.788	7.063	25.668	34.643	43.220	231.199	0.000	0
20	6.168	32.797	6.166	25.792	34.809	43.426	219.722	0.045	19
40	4.721	32.814	4.718	25.973	35.062	43.747	202.576	0.087	39
60	4.544	32.848	4.540	26.019	35.117	43.809	198.367	0.127	59
80	4.184	33.257	4.179	26.382	35.491	44.195	164.108	0.164	79
100	3.892	33.704	3.885	26.767	35.884	44.596	127.727	0.193	99
150	3.715	33.862	3.705	26.910	36.035	44.753	114.494	0.253	148
200	3.741	33.934	3.728	26.966	36.087	44.803	109.710	0.309	198
250	3.724	33.989	3.707	27.011	36.133	44.849	105.792	0.363	247
300	3.680	34.036	3.660	27.053	36.177	44.895	102.206	0.415	297
350	3.635	34.074	3.612	27.089	36.214	44.933	99.282	0.466	347
400	3.566	34.125	3.539	27.136	36.265	44.987	95.136	0.514	396
450	3.491	34.163	3.461	27.174	36.306	45.031	91.897	0.561	446
500	3.415	34.195	3.382	27.207	36.343	45.072	89.089	0.606	495
600	3.275	34.250	3.235	27.265	36.407	45.143	84.243	0.693	594
700	3.117	34.302	3.071	27.322	36.472	45.215	79.401	0.775	693
800	2.970	34.341	2.917	27.367	36.525	45.274	75.604	0.852	792
900	2.833	34.377	2.774	27.408	36.573	45.329	72.097	0.926	890
1000	2.697	34.409	2.632	27.446	36.618	45.381	68.861	0.997	989
1100	2.586	34.438	2.514	27.479	36.657	45.426	66.076	1.064	1088
1200	2.491	34.458	2.412	27.504	36.687	45.461	64.097	1.129	1186
1300	2.399	34.480	2.314	27.530	36.718	45.496	61.972	1.192	1285
1400	2.317	34.499	2.225	27.552	36.745	45.528	60.148	1.253	1384
1500	2.243	34.515	2.144	27.572	36.769	45.555	58.607	1.313	1482
1508	2.233	34.519	2.134	27.576	36.773	45.560	58.236	1.317	1490

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
3	7.068	32.799	7.31	106.8	31.1	1.48	16.5	0.16		7.068	25.676	34.650	43.227	3
15	7.046	32.798	7.32	106.9	31.3	1.48	16.5	0.16		7.045	25.678	34.653	43.231	15
34	5.218	32.802	7.62	106.5	31.3	1.50	16.9	0.15		5.215	25.909	34.972	43.634	34
61	4.594	32.825	7.32	100.8	33.1	1.59	18.5	0.14		4.590	25.996	35.090	43.781	61
101	4.050	33.486	3.49	47.6	62.3	2.48	34.4	0.07		4.043	26.577	35.690	44.397	101
154	3.727	33.952	1.31	17.8	89.0	2.96	43.0	0.00		3.717	26.901	36.025	44.742	155
204	3.745	33.932	0.80	10.9	94.3	3.08	44.7	0.00		3.731	26.964	36.085	44.801	205
302	3.673	34.041	0.58	7.9	108.4	3.11	44.9	0.00		3.653	27.058	36.182	44.900	304
401	3.551	34.128	0.53	7.2	118.5	3.10	44.6	0.00		3.524	27.140	36.269	44.992	404
497	3.414	34.198	0.50	6.7	125.1	3.11	44.5	0.00		3.381	27.209	36.345	45.074	501
597	3.281	34.250	0.51	6.9	131.5	3.10	44.5	0.00		3.241	27.264	36.406	45.141	602
697	3.129	34.299	0.50	6.7	137.2	3.09	44.5	0.00		3.082	27.318	36.468	45.210	703
804	2.961	34.344	0.49	6.5	145.6	3.10	44.6	0.00		2.908	27.370	36.528	45.278	811
905	2.825	34.379	0.54	7.2	146.9	3.11	44.7	0.00		2.765	27.410	36.576	45.333	914
1001	2.698	34.411	0.50	6.6	153.3	3.09	44.7	0.00		2.622	27.448	36.620	45.383	1011
1251	2.431	34.474	0.60	7.9	159.2	3.08	44.7	0.00		2.348	27.522	36.708	45.485	1264
1488	2.235	34.520	0.76	10.0	168.0		44.5	0.00		2.136	27.576	36.773	45.560	1505

MARATHON 2 STA. 83



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
52 59.9N	151 59.4W	5/30/84	1136	4448	240	15	7.2	5.6	1021.3

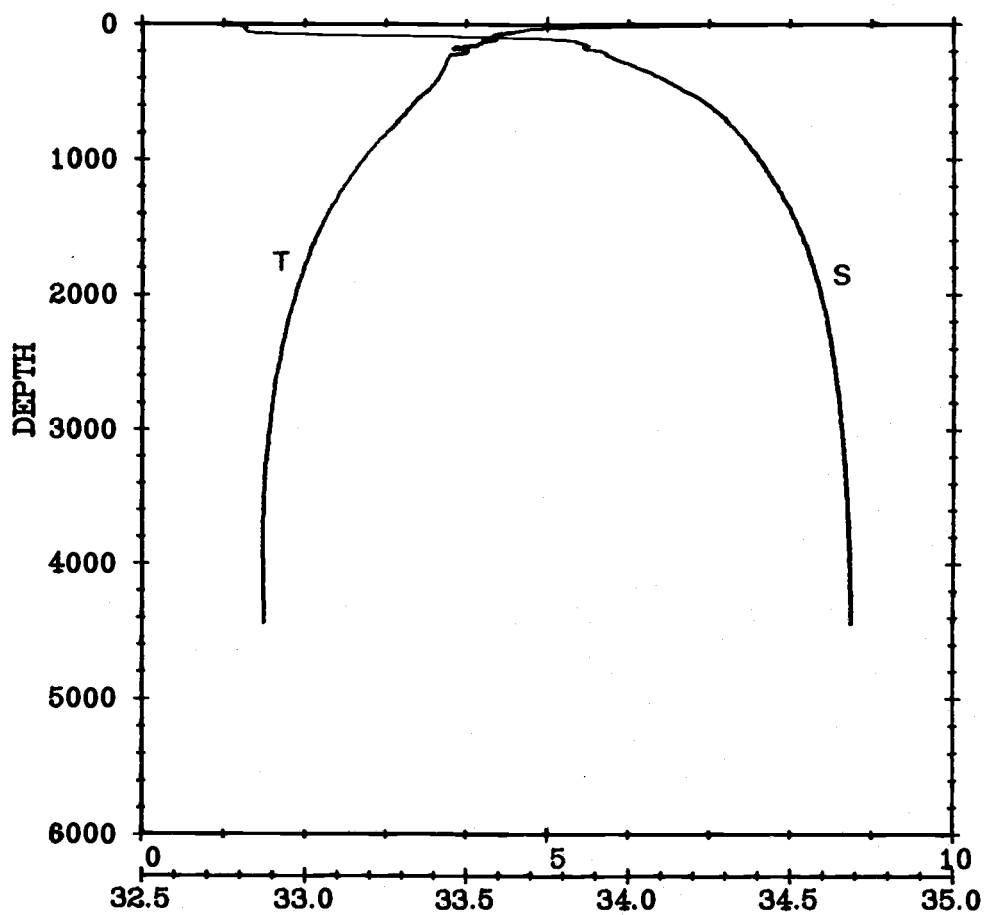
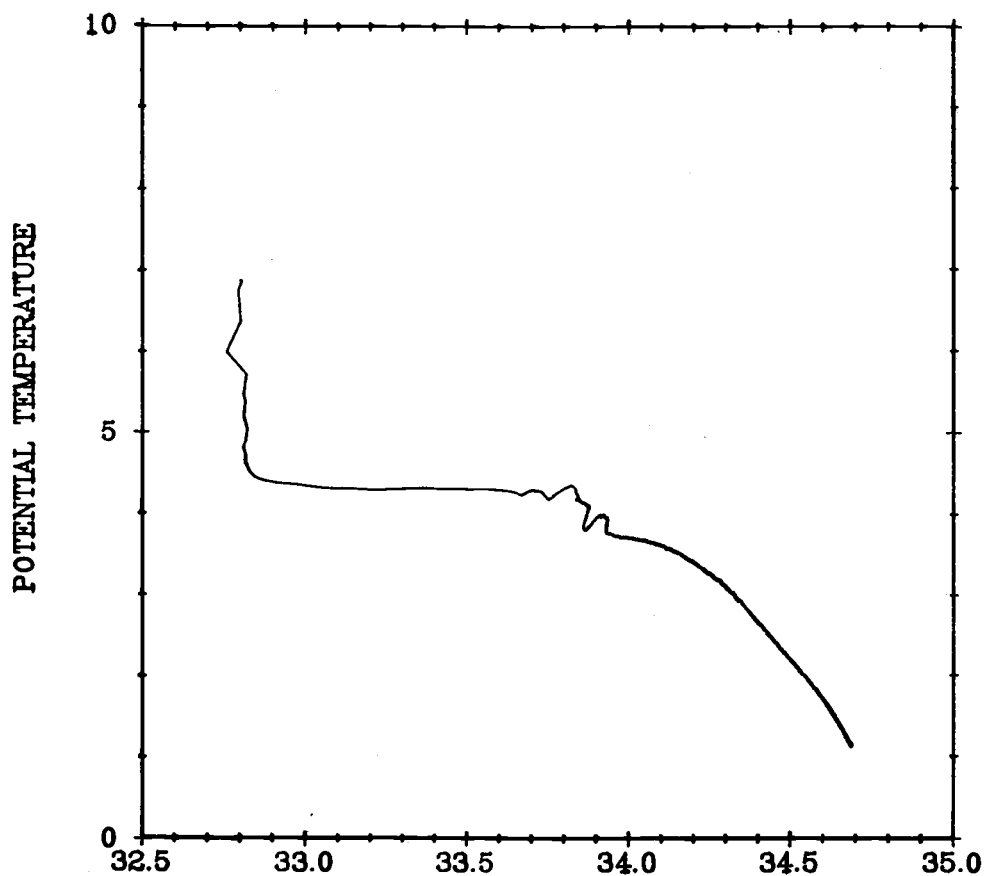
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	6.821	32.802	6.821	25.712	34.697	43.285	227.083	0.000	0
20	5.705	32.807	5.703	25.856	34.895	43.534	213.588	0.044	19
40	4.780	32.816	4.777	25.969	35.054	43.736	203.036	0.086	39
60	4.529	32.842	4.525	26.016	35.114	43.808	198.666	0.126	59
80	4.343	33.122	4.337	26.258	35.361	44.060	175.861	0.163	79
100	4.294	33.628	4.287	26.665	35.763	44.456	137.445	0.195	99
150	4.143	33.867	4.133	26.871	35.973	44.670	118.362	0.259	148
200	3.992	33.912	3.978	26.923	36.032	44.736	113.867	0.317	198
250	3.770	33.951	3.753	26.977	36.097	44.811	109.105	0.372	247
300	3.732	34.007	3.712	27.025	36.147	44.862	104.905	0.426	297
350	3.692	34.058	3.668	27.070	36.193	44.910	101.059	0.477	347
400	3.646	34.099	3.619	27.108	36.232	44.951	97.899	0.527	396
450	3.582	34.139	3.552	27.146	36.274	44.995	94.624	0.575	446
500	3.503	34.175	3.469	27.183	36.314	45.039	91.487	0.622	495
600	3.322	34.246	3.282	27.257	36.397	45.130	85.027	0.710	594
700	3.172	34.297	3.125	27.313	36.460	45.200	80.244	0.793	693
800	3.013	34.334	2.960	27.357	36.513	45.261	76.575	0.871	792
900	2.859	34.371	2.800	27.401	36.565	45.320	72.818	0.946	890
1000	2.725	34.400	2.659	27.437	36.608	45.369	69.827	1.017	989
1100	2.607	34.428	2.535	27.469	36.647	45.414	67.043	1.086	1088
1200	2.490	34.454	2.411	27.501	36.684	45.458	64.383	1.151	1187
1300	2.386	34.478	2.301	27.529	36.718	45.497	61.977	1.215	1285
1400	2.285	34.501	2.193	27.556	36.751	45.535	59.645	1.275	1384
1500	2.207	34.519	2.108	27.578	36.777	45.565	57.907	1.334	1482
1600	2.124	34.539	2.019	27.601	36.805	45.597	55.938	1.391	1581
1700	2.058	34.554	1.945	27.619	36.826	45.622	54.504	1.446	1679
1800	1.994	34.568	1.874	27.635	36.846	45.646	53.143	1.500	1777
1900	1.942	34.580	1.815	27.650	36.864	45.666	52.047	1.553	1876
2000	1.887	34.591	1.752	27.663	36.881	45.686	50.968	1.604	1974
2100	1.844	34.600	1.702	27.674	36.894	45.702	50.161	1.655	2072
2200	1.794	34.610	1.644	27.687	36.910	45.721	49.176	1.704	2170
2300	1.762	34.617	1.604	27.695	36.921	45.733	48.617	1.753	2269
2400	1.722	34.624	1.556	27.704	36.932	45.747	47.942	1.802	2367
2500	1.692	34.630	1.518	27.712	36.942	45.759	47.452	1.849	2465
2600	1.659	34.636	1.476	27.720	36.952	45.771	46.911	1.897	2563
2700	1.627	34.642	1.435	27.728	36.962	45.783	46.369	1.943	2661
2800	1.604	34.647	1.404	27.734	36.970	45.792	46.007	1.989	2759
2900	1.585	34.651	1.376	27.739	36.976	45.801	45.762	2.035	2856
3000	1.571	34.655	1.353	27.744	36.983	45.808	45.577	2.081	2954
3100	1.547	34.659	1.320	27.749	36.990	45.817	45.245	2.126	3052
3200	1.532	34.663	1.295	27.754	36.996	45.824	45.031	2.171	3150
3300	1.516	34.666	1.270	27.759	37.002	45.831	44.866	2.216	3248
3400	1.504	34.669	1.248	27.762	37.007	45.838	44.753	2.261	3345
3500	1.497	34.671	1.231	27.765	37.011	45.842	44.779	2.306	3443
3600	1.498	34.674	1.212	27.769	37.016	45.848	44.700	2.351	3540
3700	1.484	34.676	1.198	27.772	37.019	45.852	44.762	2.395	3638
3800	1.480	34.678	1.193	27.774	37.022	45.856	44.822	2.440	3735
3900	1.480	34.680	1.172	27.776	37.025	45.859	44.942	2.485	3833
4000	1.483	34.681	1.165	27.778	37.027	45.862	45.178	2.530	3930
4100	1.486	34.682	1.156	27.779	37.029	45.864	45.414	2.575	4028
4200	1.489	34.683	1.147	27.781	37.031	45.866	45.633	2.621	4125
4300	1.491	34.685	1.139	27.783	37.033	45.869	45.797	2.667	4222
4400	1.495	34.685	1.132	27.783	37.034	45.871	46.117	2.713	4319
4500	1.500	34.687	1.125	27.785	37.036	45.873	46.314	2.759	4416
4528	1.504	34.687	1.126	27.785	37.036	45.873	46.453	2.772	4444

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	6.874	32.812	7.29	106.0	33.0	1.52	17.2	0.19	6.874	25.712	34.695	43.281		1
54	4.620	32.823	7.27	100.2	32.9	1.62	18.4	0.20	4.616	25.991	35.085	43.774		54
105	4.311	33.724	2.26	31.1	70.3	2.72	38.6	0.01	4.304	26.740	35.835	44.526		105
155	4.129	33.877	1.33	18.2	82.6	2.95	42.3	0.01	4.118	26.881	35.983	44.680		156
209	4.021	33.931	0.97	13.3	90.0	3.04	43.6	0.00	4.006	26.935	36.042	44.744		210
302	3.729	34.014	0.54	7.3	104.8	3.15	45.4	0.00	3.708	27.031	36.152	44.868		304
405	3.638	34.112	0.48	6.5	114.5	3.13	45.0	0.00	3.610	27.119	36.244	44.962		408
499	3.497	34.181	0.42	5.7	122.9	3.15	45.0	0.00	3.463	27.188	36.319	45.045		503
604	3.314	34.254	0.41	5.5	132.1	3.14	45.1	0.00	3.273	27.264	36.405	45.138		609
699	3.166	34.303	0.38	5.1	140.3	3.16	45.0	0.00	3.119	27.318	36.465	45.206		705
797	3.009	34.339	0.43	5.7	146.9	3.15	45.1	0.00	2.956	27.361	36.517	45.265		804
897	2.855	34.376	0.44	5.9	151.2	3.14	45.1	0.00	2.795	27.405	36.569	45.324		906
991	2.725	34.404	0.47	6.2	158.6	3.15	45.0	0.00	2.659	27.440	36.610	45.372		1001
1240	2.432	34.471	0.60	7.9	168.0	3.12	44.6	0.00	2.350	27.519	36.706	45.482		1253
1477	2.210	34.522	0.84	11.0	174.3	3.07	44.3	0.00	2.112	27.580	36.778	45.566		1494
1739	2.024	34.564	1.19	15.5	177.8	3.02	43.4	0.00	1.907	27.630	36.839	45.636		1760
1985	1.884	34.595	1.49	19.3	179.1	2.96	42.6	0.00	1.749	27.667	36.884	45.689		2010
2371	1.722	34.628	1.96	25.3	178.8	2.86	41.3	0.00	1.556	27.708	36.935	45.750		2403
2761	1.604	34.650	2.43	31.3	177.5	2.77	40.1	0.00	1.404	27.736	36.972	45.795		2902
3158	1.532	34.665	2.82	36.2	174.5	2.70	39.1	0.00	1.295	27.756	36.998	45.826		3207
3550	1.488	34.676	3.11	39.8	172.7	2.64	38.3	0.00	1.211	27.771	37.017	45.849		3609
3946	1.483	34.682	3.29	42.1	171.9	2.60	37.8	0.00	1.163	27.779	37.028	45.862		4015
4195	1.491	34.684	3.35	42.8	172.1		37.5	0.00	1.143	27.782	37.031	45.867		4271
4444	1.504	34.687	3.41	43.6	172.4	2.56	37.3	0.00	1.126	27.785	37.036	45.873		4527

MARATHON 2 STA. 84

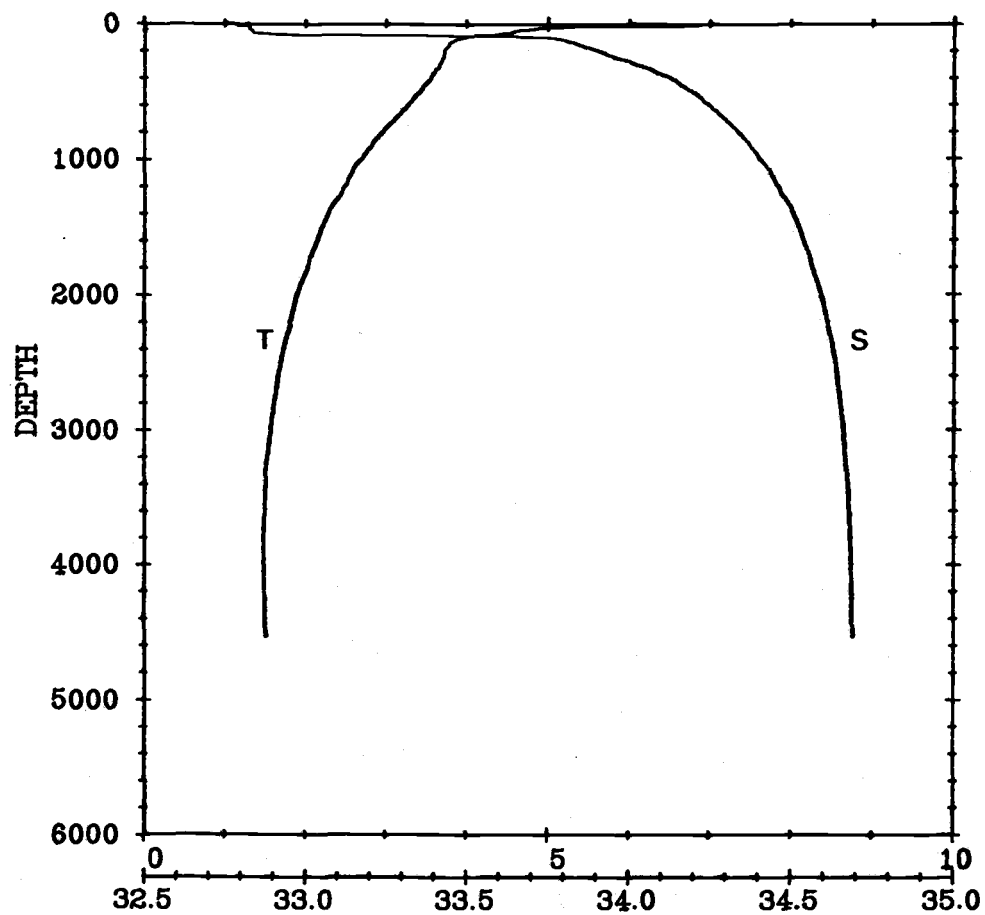
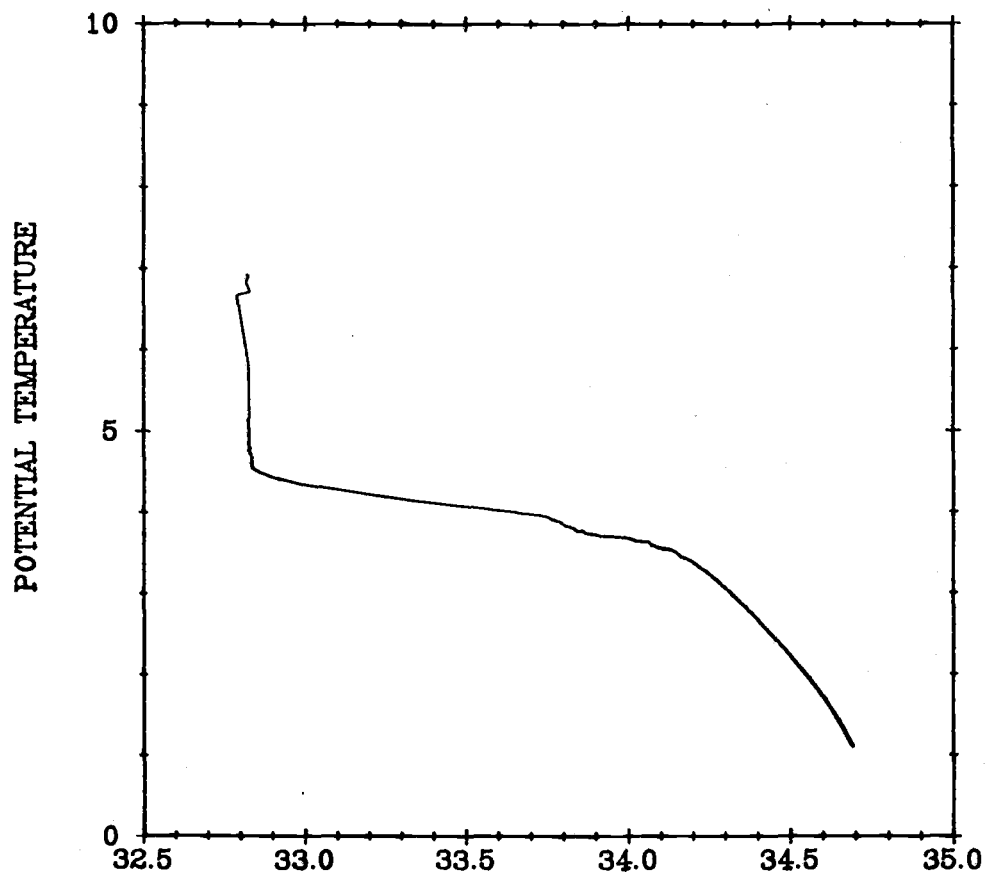


LATITUDE	LONGITUDE	MO/DY/YR	START TIME GMT	BOTTOM M	WIND DIR	SPEED KT	AIR TEMP DEG C	WET BULB DEG C	BAROM MB
53 20.5N	151 58.9W	5/30/84	1948	4531	230	20	7.2	6.7	1019.3

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C								
0	6.897	32.821	6.897	25.717	34.698	43.282	226.617	0.000	0
20	5.927	32.822	5.925	25.841	34.869	43.498	215.014	0.044	19
40	4.814	32.829	4.811	25.975	35.059	43.739	202.411	0.086	39
60	4.575	32.836	4.571	26.006	35.102	43.794	199.586	0.126	59
80	4.385	32.984	4.379	26.144	35.247	43.946	186.675	0.165	79
100	3.999	33.646	3.992	26.710	35.823	44.530	133.141	0.197	99
150	3.780	33.843	3.770	26.889	36.010	44.725	116.556	0.259	148
200	3.724	33.905	3.711	26.944	36.067	44.784	111.725	0.316	198
250	3.709	33.961	3.692	26.991	36.114	44.831	107.747	0.371	247
300	3.668	34.016	3.648	27.039	36.163	44.882	103.588	0.424	297
350	3.608	34.075	3.585	27.092	36.219	44.940	98.936	0.475	346
400	3.559	34.127	3.532	27.139	36.267	44.990	94.916	0.523	396
450	3.492	34.157	3.462	27.169	36.301	45.027	92.356	0.570	445
500	3.427	34.193	3.394	27.204	36.339	45.068	89.361	0.615	495
600	3.283	34.246	3.243	27.261	36.403	45.138	84.624	0.702	594
700	3.124	34.294	3.078	27.315	36.465	45.207	80.070	0.785	693
800	2.969	34.336	2.916	27.363	36.521	45.271	75.966	0.863	792
900	2.824	34.373	2.765	27.406	36.571	45.328	72.300	0.937	890
1000	2.710	34.403	2.645	27.440	36.612	45.374	69.444	1.008	989
1100	2.576	34.435	2.504	27.478	36.656	45.426	66.191	1.075	1088
1200	2.495	34.456	2.416	27.502	36.685	45.458	64.289	1.141	1185
1300	2.398	34.479	2.313	27.529	36.717	45.496	62.035	1.204	1285
1400	2.287	34.504	2.195	27.559	36.753	45.537	59.446	1.265	1384
1500	2.212	34.521	2.113	27.579	36.778	45.565	57.816	1.323	1482
1600	2.148	34.536	2.042	27.597	36.799	45.590	56.432	1.380	1580
1700	2.079	34.552	1.966	27.615	36.822	45.616	54.894	1.436	1679
1800	2.029	34.563	1.909	27.629	36.838	45.636	53.920	1.490	1777
1900	1.962	34.577	1.835	27.646	36.859	45.660	52.504	1.544	1876
2000	1.904	34.589	1.769	27.660	36.877	45.681	51.319	1.596	1974
2100	1.855	34.600	1.712	27.673	36.893	45.700	50.295	1.646	2072
2200	1.816	34.608	1.666	27.683	36.905	45.715	49.595	1.696	2170
2300	1.776	34.616	1.618	27.693	36.918	45.730	48.866	1.746	2268
2400	1.727	34.625	1.561	27.705	36.932	45.747	47.933	1.794	2366
2500	1.692	34.632	1.518	27.714	36.943	45.760	47.308	1.842	2464
2600	1.661	34.638	1.478	27.721	36.953	45.772	46.793	1.889	2560
2700	1.637	34.643	1.445	27.728	36.961	45.782	46.430	1.935	2656
2800	1.611	34.648	1.411	27.734	36.970	45.792	46.029	1.981	2758
2900	1.588	34.652	1.379	27.740	36.977	45.801	45.731	2.027	2856
3000	1.564	34.657	1.346	27.746	36.985	45.811	45.336	2.073	2954
3100	1.548	34.661	1.321	27.751	36.991	45.818	45.116	2.118	3052
3200	1.529	34.665	1.292	27.756	36.998	45.826	44.844	2.163	3150
3300	1.512	34.668	1.266	27.760	37.004	45.834	44.665	2.208	3247
3400	1.502	34.671	1.246	27.764	37.009	45.839	44.581	2.252	3345
3500	1.492	34.673	1.226	27.767	37.013	45.845	44.562	2.297	3442
3600	1.486	34.676	1.210	27.771	37.017	45.850	44.527	2.342	3540
3700	1.484	34.678	1.198	27.773	37.021	45.853	44.620	2.386	3638
3800	1.482	34.679	1.185	27.775	37.023	45.856	44.783	2.431	3735
3900	1.481	34.681	1.173	27.777	37.026	45.860	44.887	2.476	3832
4000	1.483	34.682	1.165	27.779	37.028	45.862	45.108	2.521	3930
4100	1.484	34.684	1.155	27.781	37.030	45.866	45.241	2.566	4027
4200	1.486	34.684	1.145	27.782	37.032	45.867	45.530	2.611	4124
4300	1.495	34.685	1.143	27.783	37.033	45.869	45.862	2.657	4222
4400	1.498	34.685	1.134	27.784	37.035	45.871	46.097	2.703	4319
4500	1.503	34.687	1.128	27.785	37.036	45.873	46.365	2.749	4416
4600	1.506	34.688	1.119	27.787	37.038	45.875	46.599	2.796	4513
4620	1.505	34.688	1.116	27.787	37.038	45.876	46.632	2.805	4533

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUB/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB	
DEPTH M	TEMP DEG C													
1	6.966	32.825	7.30	106.4	31.8	1.49	16.9	0.18	3.98	6.966	25.710	34.688	43.270	1
21	5.908	32.825	7.55	107.3	32.5	1.50	17.2	0.17		5.906	25.846	34.875	43.504	21
49	4.683	32.835	7.38	101.9	33.4	1.59	18.5	0.16		4.679	25.994	35.084	43.770	49
98	3.997	33.662	2.51	34.2	71.5	2.69	38.4	0.01		3.990	26.723	35.835	44.542	98
149	3.773	33.844	1.34	18.2	87.3	2.98	42.9	0.00		2.61	3.763	26.890	36.011	149
197	3.727	33.904	0.95	12.9	94.6	3.06	44.3	0.00		2.36	3.714	26.943	36.066	197
245	3.713	33.956	0.74	10.0	100.3	3.09	44.8	0.00		1.91	3.697	26.986	36.109	245
294	3.677	34.011	0.69	9.4	106.9	3.11	44.8	0.00		1.40	3.657	27.034	36.158	294
395	3.563	34.126	0.52	7.0	119.1	3.11	44.8	0.00		0.88	3.536	27.137	36.266	395
499	3.424	34.196	0.47	6.3	127.3	3.12	44.8	0.00		0.50	3.390	27.207	36.342	499
595	3.285	34.246	0.48	6.5	132.2	3.10	44.7	0.00		0.41	3.245	27.260	36.403	595
693	3.126	34.296	0.49	6.6	135.9	3.10	44.7	0.00		0.11	3.080	27.316	36.466	693
798	2.953	34.340			143.9	3.12	44.8	0.00		0.21	2.910	27.366	36.524	798
895	2.820	34.376	0.52	6.9	147.1	3.11	44.7	0.00		0.09	2.761	27.408	36.574	895
997	2.707	34.406	0.53	7.0	153.1	3.10	44.7	0.00			2.641	27.443	36.614	997
1249	2.438	34.472	0.61	8.0	160.1	3.09	44.4	0.00			2.355	27.520	36.706	1249
1504	2.200	34.526	0.84	11.0	170.4	3.06	44.2	0.00			2.100	27.584	36.783	1504
1726	2.056	34.560	1.09	14.2	173.6	3.02	43.6	0.00			1.940	27.624	36.831	1726
2009	1.880	34.595	1.50	19.5		2.95	42.7	0.00			1.743	27.667	36.885	2009
2493	1.685	34.635	2.09	27.0	174.0	2.82	41.0	0.00			1.508	27.717	36.947	2493
2992	1.558	34.660	2.66	34.2	174.0	2.70	39.5	0.00			1.337	27.749	36.988	2992
3496	1.486	34.675	3.09	39.6		2.63	38.3	0.00			1.215	27.770	37.016	3496
4046	1.484	34.683	3.30	42.2	171.1		37.7	0.00			1.153	27.780	37.030	4046
4533	1.504	34.688	3.46	44.2		2.54	37.1	0.00			1.116	27.787	37.038	4533

MARATHON 2 STA. 85

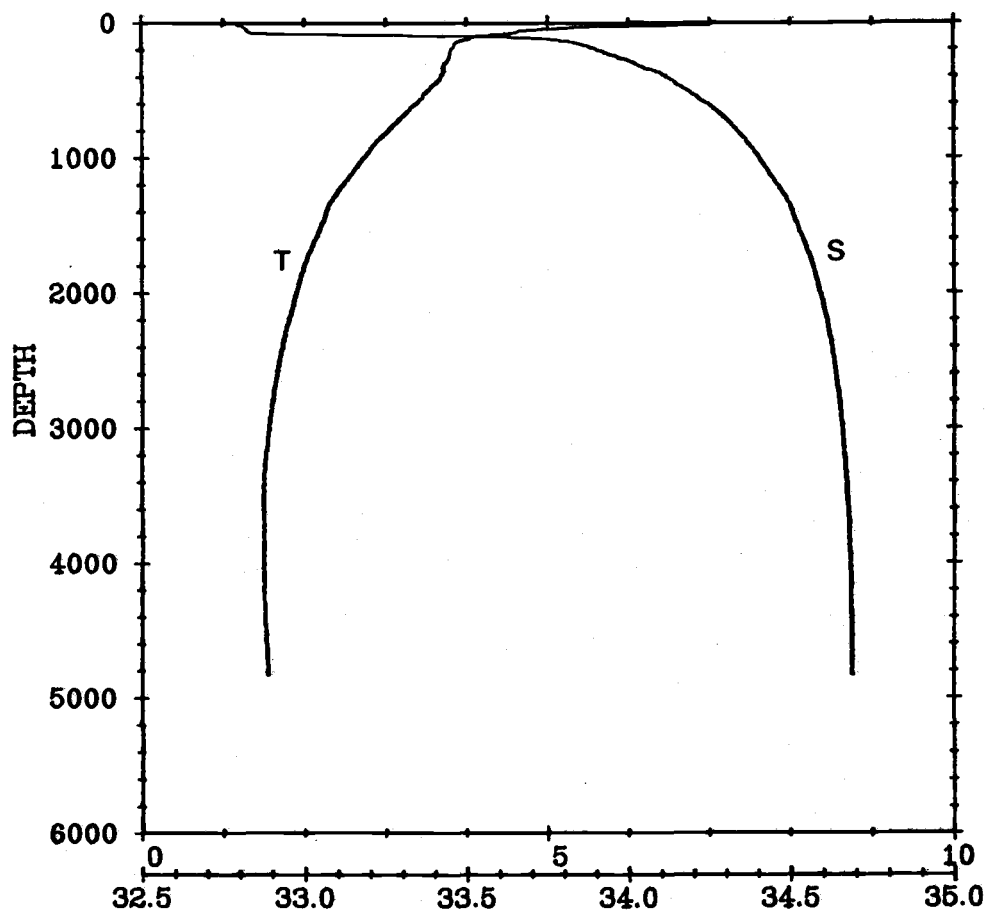
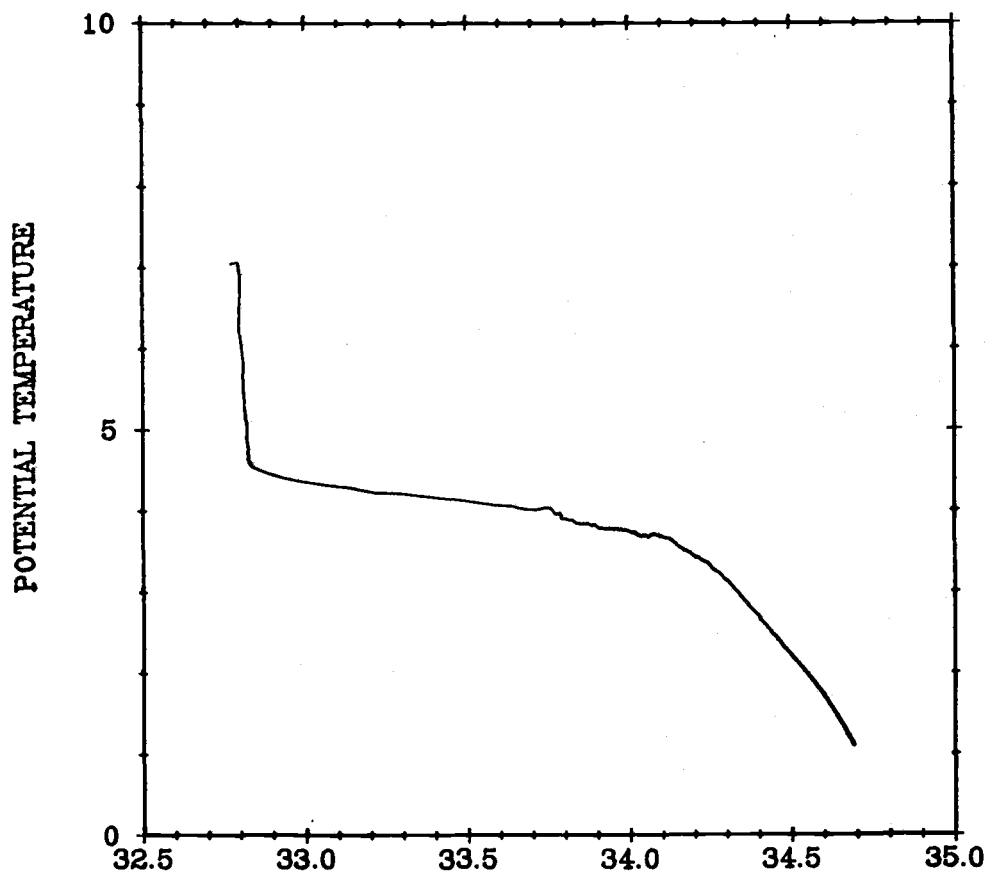


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
53 41.1N	151 58.9W	5/31/84	212	4846	210	18	8.3	8.3	1014.2

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	7.022	32.792	7.022	25.677	34.653	43.232	230.375	0.000	0
20	6.583	32.801	6.581	25.742	34.739	43.338	224.447	0.045	19
40	5.225	32.817	5.222	25.920	34.983	43.644	207.693	0.089	39
60	4.719	32.826	4.715	25.983	35.072	43.756	201.819	0.130	59
80	4.495	32.896	4.489	26.063	35.162	43.856	194.414	0.169	79
100	4.176	33.384	4.169	26.484	35.591	44.294	154.622	0.204	99
150	3.878	33.830	3.868	26.869	35.985	44.696	118.494	0.272	148
200	3.816	33.902	3.803	26.933	36.051	44.764	112.857	0.330	198
250	3.791	33.962	3.774	26.983	36.102	44.815	108.488	0.386	247
300	3.747	34.018	3.727	27.032	36.153	44.867	104.230	0.439	297
350	3.723	34.068	3.699	27.075	36.196	44.911	100.624	0.490	347
400	3.685	34.113	3.658	27.115	36.238	44.954	97.249	0.539	396
450	3.616	34.143	3.585	27.146	36.272	44.991	94.674	0.587	446
500	3.528	34.177	3.494	27.182	36.312	45.036	91.596	0.634	495
600	3.390	34.239	3.350	27.245	36.382	45.112	86.255	0.723	594
700	3.204	34.291	3.157	27.305	36.451	45.189	81.126	0.807	693
800	3.041	34.332	2.988	27.353	36.507	45.254	77.018	0.885	792
900	2.875	34.368	2.815	27.397	36.560	45.315	73.209	0.961	890
1000	2.741	34.401	2.675	27.436	36.606	45.367	69.922	1.032	989
1100	2.610	34.428	2.538	27.469	36.646	45.414	67.075	1.101	1088
1200	2.488	34.456	2.410	27.503	36.686	45.460	64.213	1.167	1186
1300	2.362	34.484	2.277	27.536	36.726	45.506	61.270	1.229	1285
1400	2.273	34.505	2.181	27.561	36.756	45.540	59.217	1.290	1384
1500	2.211	34.519	2.112	27.578	36.776	45.564	57.952	1.348	1482
1600	2.142	34.536	2.036	27.597	36.800	45.591	56.364	1.405	1580
1700	2.074	34.551	1.961	27.615	36.822	45.617	54.909	1.461	1679
1800	2.000	34.567	1.880	27.634	36.845	45.644	53.287	1.515	1777
1900	1.948	34.579	1.821	27.648	36.862	45.664	52.192	1.568	1876
2000	1.908	34.588	1.773	27.659	36.876	45.680	51.440	1.620	1974
2100	1.858	34.597	1.715	27.671	36.890	45.697	50.551	1.671	2072
2200	1.812	34.607	1.662	27.683	36.905	45.715	49.618	1.721	2170
2300	1.767	34.616	1.609	27.694	36.919	45.732	48.752	1.770	2268
2400	1.728	34.623	1.562	27.703	36.931	45.745	48.091	1.818	2366
2500	1.694	34.631	1.519	27.713	36.943	45.759	47.406	1.865	2464
2600	1.665	34.636	1.482	27.719	36.951	45.770	46.990	1.913	2562
2700	1.636	34.641	1.444	27.726	36.960	45.780	46.561	1.960	2660
2800	1.609	34.647	1.409	27.733	36.969	45.792	46.075	2.006	2758
2900	1.589	34.651	1.380	27.739	36.976	45.800	45.815	2.052	2856
3000	1.564	34.656	1.346	27.745	36.984	45.810	45.408	2.099	2954
3100	1.548	34.659	1.321	27.749	36.990	45.817	45.259	2.143	3052
3200	1.530	34.663	1.293	27.755	36.996	45.825	45.002	2.188	3150
3300	1.513	34.667	1.267	27.760	37.003	45.833	44.751	2.233	3247
3400	1.502	34.670	1.246	27.763	37.008	45.839	44.652	2.278	3345
3500	1.494	34.672	1.228	27.766	37.012	45.843	44.663	2.323	3442
3600	1.491	34.674	1.215	27.769	37.015	45.847	44.744	2.367	3540
3700	1.488	34.676	1.201	27.771	37.018	45.851	44.824	2.412	3638
3800	1.487	34.678	1.190	27.774	37.021	45.855	44.930	2.457	3735
3900	1.491	34.678	1.183	27.774	37.022	45.856	45.255	2.502	3832
4000	1.491	34.680	1.172	27.777	37.025	45.859	45.375	2.547	3930
4100	1.493	34.681	1.163	27.778	37.027	45.862	45.597	2.593	4027
4200	1.498	34.682	1.157	27.779	37.029	45.864	45.865	2.639	4124
4300	1.502	34.683	1.150	27.781	37.030	45.866	46.118	2.685	4222
4400	1.508	34.684	1.144	27.782	37.032	45.868	46.403	2.731	4319
4500	1.514	34.685	1.139	27.783	37.033	45.870	46.690	2.777	4416
4600	1.521	34.685	1.134	27.783	37.034	45.870	47.053	2.824	4513
4700	1.529	34.686	1.130	27.784	37.035	45.872	47.385	2.871	4610
4800	1.537	34.686	1.126	27.785	37.036	45.872	47.778	2.919	4707
4900	1.538	34.687	1.115	27.786	37.038	45.875	47.979	2.967	4804
4930	1.540	34.688	1.113	27.787	37.039	45.876	48.021	2.981	4833

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	6.998	32.803	7.31	106.6	31.9	1.48	16.5	0.19	6.998	25.699	34.666	43.246		1
12	6.994	32.801	7.30	106.4	32.1	1.48	16.5	0.19	6.993	25.688	34.665	43.245		12
23	5.363	32.816	7.58	106.3	32.1	1.49	16.9	0.17	5.361	25.903	34.959	43.614		28
62	4.601	32.833	7.26	100.0	33.4	1.60	18.5	0.20	4.597	26.001	35.096	43.785		62
139	3.901	33.904	1.57	21.4	83.1	2.93	41.7	0.01	3.892	26.846	35.961	44.671		140
214	3.833	33.935	0.76	10.3	96.2	3.10	44.5	0.01	3.818	26.957	36.074	44.785		215
296	3.809	34.056	0.57	7.8	107.4	3.11	44.5	0.01	3.789	27.056	36.173	44.884		298
391	3.650	34.138	0.46	6.2	117.9	3.11	44.6	0.01	3.623	27.138	36.262	44.980		394
494	3.512	34.199	0.40	5.4	125.9	3.11	44.6	0.01	3.478	27.201	36.331	45.055		498
594	3.365	34.248	0.37	5.0	131.7	3.12	44.7	0.00	3.325	27.255	36.392	45.123		599
697	3.176	34.298	0.42	5.6	137.7	3.11	44.7	0.00	3.129	27.313	36.460	45.200		703
796	2.999	34.342	0.38	5.1	146.5	3.11	44.9	0.00	2.946	27.365	36.521	45.269		803
895	2.833	34.379	0.44	5.9	151.8	3.12	44.9	0.00	2.774	27.410	36.574	45.331		904
989	2.712	34.407	0.47	6.2	157.2	3.12	44.9	0.00	2.647	27.443	36.615	45.377		999
1237	2.404	34.475	0.62	8.2	166.1	3.09	44.5	0.00	2.323	27.525	36.713	45.490		1250
1499	2.170	34.528	0.89	11.6	172.2	3.04	44.0	0.00	2.071	27.588	36.789	45.578		1516
1746	1.999	34.568	1.18	15.4	175.8	2.98	43.2	0.00	1.882	27.635	36.845	45.644		1767
1990	1.877	34.596	1.48	19.2	176.9	2.94	42.5	0.00	1.741	27.668	36.886	45.692		2016
2480	1.688	34.633	2.07	26.7	177.0	2.82	40.8	0.00	1.512	27.715	36.945	45.762		2515
2982	1.564	34.657	2.64	33.9	173.8	2.71	39.5	0.00	1.343	27.746	36.985	45.811		3028
3479	1.494	34.675	3.04	38.9	173.8	2.63	38.3	0.00	1.225	27.769	37.014	45.846		3537
3971	1.491	34.680	3.25	41.6	171.6	2.58	37.5	0.00	1.168	27.777	37.025	45.860		4041
4459	1.516	34.684	3.38	43.2	170.4	2.56	37.3	0.00	1.136	27.782	37.032	45.869		4543
4834	1.540	34.689	3.45	44.1	169.5	2.54	37.0	0.00	1.114	27.788	37.039	45.877		4930

MARATHON 2 STA. 86

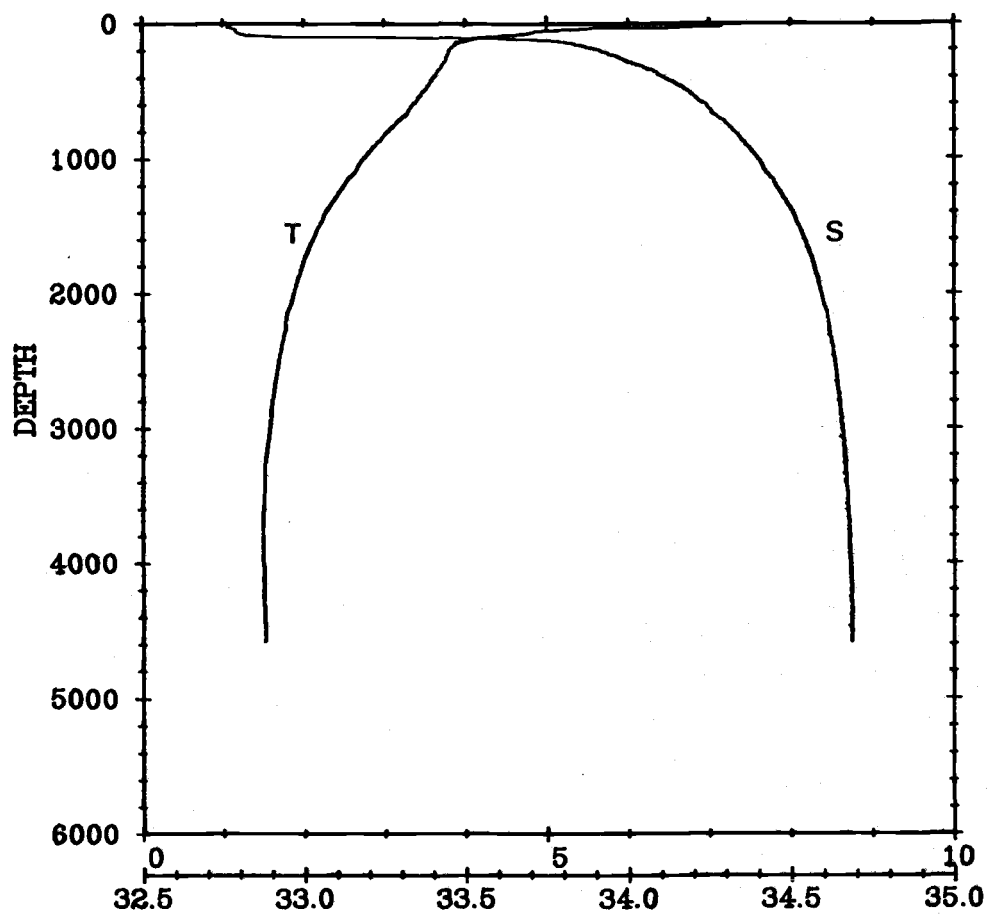
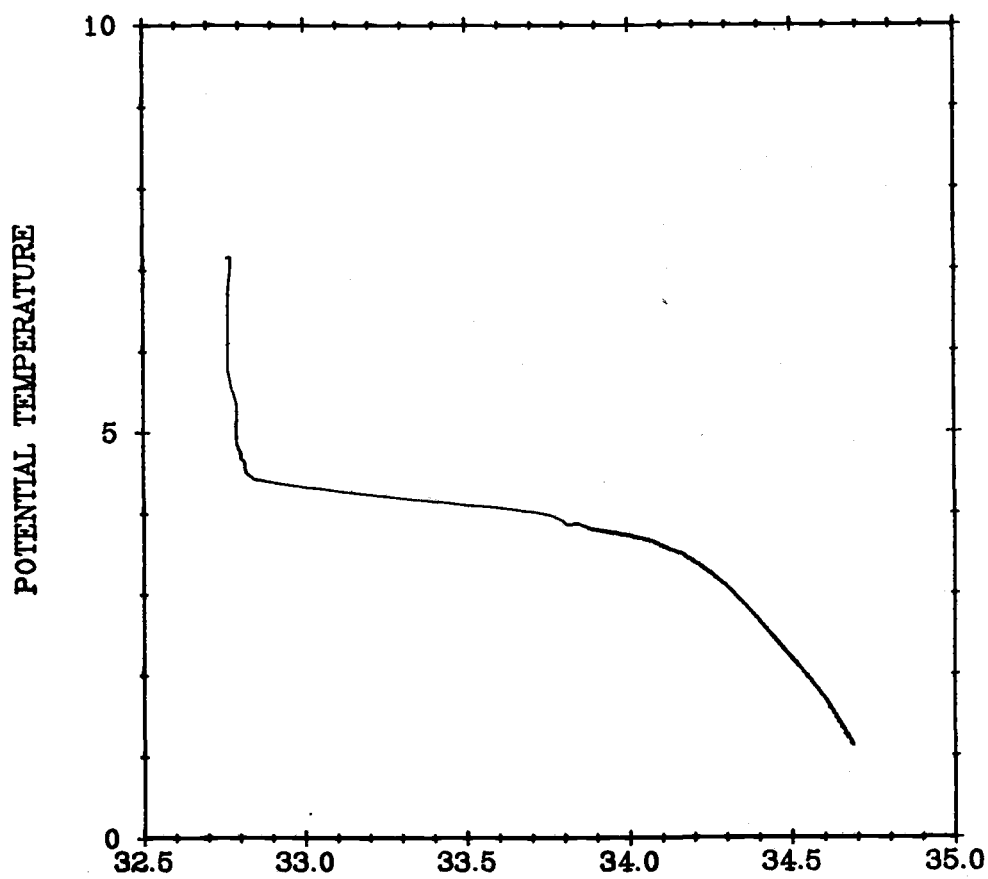


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
54 0.5N	151 56.1W	5/31/84	842	4572	200	18	7.2	7.2	1010.8

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON			M
0	7.160	32.768	7.160	25.640	34.609	43.183	233.942	0.000		0
20	7.060	32.770	7.058	25.655	34.629	43.208	232.771	0.047		19
40	5.650	32.780	5.647	25.841	34.894	43.526	215.198	0.091		39
60	4.944	32.793	4.940	25.932	35.010	43.685	206.661	0.134		59
80	4.662	32.814	4.656	25.980	35.072	43.759	202.298	0.175		79
100	4.325	33.058	4.318	26.209	35.314	44.015	190.656	0.213		99
150	3.888	33.824	3.878	26.863	35.979	44.689	119.044	0.288		148
200	3.808	33.909	3.795	26.939	36.058	44.771	112.251	0.346		198
250	3.771	33.969	3.754	26.991	36.111	44.824	107.762	0.401		247
300	3.731	34.019	3.711	27.035	36.156	44.871	103.994	0.454		297
350	3.672	34.077	3.648	27.087	36.211	44.928	99.431	0.504		346
400	3.614	34.109	3.587	27.119	36.245	44.965	96.823	0.553		396
450	3.555	34.147	3.525	27.155	36.284	45.006	93.748	0.601		445
500	3.483	34.180	3.449	27.189	36.321	45.047	90.907	0.647		495
550	3.349	34.235	3.309	27.246	36.385	45.117	86.128	0.736		594
700	3.224	34.275	3.177	27.290	36.436	45.173	82.529	0.820		693
800	3.048	34.324	2.995	27.346	36.500	45.246	77.687	0.900		792
900	2.896	34.362	2.837	27.391	36.553	45.306	73.878	0.976		890
1000	2.745	34.397	2.679	27.432	36.602	45.363	70.262	1.048		989
1100	2.640	34.421	2.568	27.461	36.637	45.403	67.917	1.117		1088
1200	2.500	34.452	2.421	27.498	36.681	45.454	64.639	1.183		1186
1300	2.390	34.478	2.305	27.529	36.718	45.496	62.021	1.247		1295
1400	2.275	34.504	2.183	27.560	36.755	45.539	59.313	1.307		1383
1500	2.198	34.522	2.100	27.581	36.780	45.569	57.585	1.366		1482
1600	2.120	34.540	2.015	27.602	36.806	45.599	55.819	1.423		1580
1700	2.050	34.556	1.938	27.621	36.829	45.625	54.265	1.478		1679
1800	1.980	34.571	1.860	27.639	36.851	45.651	52.760	1.531		1777
1900	1.929	34.582	1.802	27.652	36.867	45.670	51.747	1.583		1875
2000	1.880	34.592	1.745	27.665	36.882	45.688	50.811	1.635		1974
2100	1.840	34.601	1.698	27.675	36.896	45.704	50.039	1.685		2072
2200	1.784	34.612	1.634	27.689	36.913	45.724	48.907	1.735		2170
2300	1.763	34.616	1.605	27.694	36.920	45.732	48.702	1.783		2268
2400	1.723	34.625	1.557	27.705	36.933	45.748	47.882	1.832		2366
2500	1.688	34.629	1.514	27.712	36.942	45.759	47.473	1.879		2464
2600	1.661	34.637	1.478	27.720	36.953	45.771	46.865	1.927		2562
2700	1.637	34.641	1.445	27.726	36.960	45.780	46.575	1.973		2660
2800	1.611	34.647	1.411	27.733	36.969	45.791	46.102	2.020		2758
2900	1.592	34.651	1.383	27.739	36.976	45.799	45.858	2.066		2856
3000	1.580	34.654	1.361	27.743	36.981	45.806	45.774	2.111		2954
3100	1.560	34.657	1.332	27.747	36.987	45.813	45.571	2.157		3052
3200	1.536	34.663	1.299	27.754	36.996	45.824	45.088	2.202		3149
3300	1.519	34.665	1.273	27.758	37.001	45.830	44.981	2.247		3247
3400	1.510	34.667	1.254	27.761	37.005	45.835	44.983	2.292		3345
3500	1.506	34.670	1.240	27.764	37.009	45.840	44.984	2.337		3442
3600	1.504	34.673	1.227	27.767	37.013	45.844	45.011	2.382		3540
3700	1.493	34.676	1.206	27.771	37.018	45.850	44.900	2.427		3637
3800	1.491	34.677	1.194	27.773	37.020	45.853	45.063	2.472		3735
3900	1.492	34.679	1.184	27.775	37.023	45.857	45.200	2.517		3832
4000	1.493	34.680	1.174	27.776	37.025	45.859	45.407	2.563		3930
4100	1.496	34.681	1.166	27.778	37.026	45.861	45.645	2.608		4027
4200	1.499	34.682	1.158	27.779	37.028	45.864	45.882	2.654		4124
4300	1.502	34.683	1.150	27.781	37.030	45.866	46.118	2.700		4221
4400	1.506	34.685	1.142	27.783	37.033	45.869	46.300	2.746		4319
4500	1.513	34.685	1.138	27.783	37.033	45.870	46.673	2.793		4416
4600	1.517	34.686	1.130	27.784	37.035	45.872	46.925	2.840		4513
4674	1.520	34.686	1.124	27.785	37.036	45.873	47.165	2.874		4585

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	7.207	32.781	7.29	106.8	32.3	1.44	15.9	0.18		7.207	25.643	34.610	43.182	1
19	7.174	32.781	7.29	106.7	32.3	1.43	15.9	0.18		7.172	25.648	34.617	43.190	19
43	5.136	32.796	7.55	105.3	30.0	1.49	16.6	0.18		5.133	25.913	34.981	43.646	43
71	4.789	32.804	7.30	101.0	32.3	1.57	17.8	0.18		4.784	25.958	35.043	43.725	71
101	4.150	33.378	3.91	53.5	58.9	2.38	32.4	0.10		4.143	26.481	35.590	44.294	101
199	3.758	33.883	1.09	14.8	97.2	3.06	44.2	0.01		3.745	26.923	36.045	44.760	200
298	3.739	34.023	0.58	7.9	111.8	3.14	45.0	0.00		3.719	27.037	36.158	44.873	300
379	3.639	34.105	0.49	6.6	115.4	3.13	45.0	0.00		3.613	27.113	36.238	44.957	382
500	3.436	34.201	0.42	5.7	124.8	3.12	44.9	0.01		3.402	27.210	36.344	45.072	504
606	3.280	34.261	0.43	5.8	130.7	3.13	45.0	0.01		3.239	27.273	36.415	45.150	611
699	3.157	34.297	0.39	5.2		3.14	45.1	0.00		3.110	27.314	36.462	45.203	705
799	3.002	34.338	0.43	5.7		3.13	45.1	0.00		2.949	27.361	36.518	45.265	807
907	2.850	34.376	0.42	5.6		3.15	45.1	0.00		2.790	27.406	36.570	45.325	916
1007	2.690	34.412	0.47	6.2		3.15	45.2	0.00		2.623	27.449	36.622	45.385	1017
1249	2.400	34.477	0.62	8.2		3.12	44.8	0.00		2.318	27.527	36.715	45.493	1263
1436	2.181	34.527	0.89	11.6		3.07	44.2	0.00		2.082	27.586	36.786	45.575	1513
1739	2.008	34.566	1.18	15.4		3.01	43.6	0.00		1.891	27.632	36.842	45.641	1760
2026	1.863	34.599	1.53	19.8		2.94	42.6	0.00		1.724	27.672	36.890	45.697	2052
2520	1.682	34.635	2.11	27.2		2.85	41.1	0.00		1.503	27.717	36.948	45.765	2556
3015	1.569	34.658	2.62	33.7		2.75	39.7	0.00		1.345	27.747	36.986	45.811	3062
3481	1.500	34.673	3.03	38.8		2.67	38.4	0.00		1.230	27.767	37.012	45.844	3539
3971	1.494	34.681	3.24	41.5		2.62	37.9	0.00		1.171	27.777	37.026	45.860	4042
4434	1.514	34.685	3.36	42.9		2.59	37.5	0.00		1.137	27.783	37.033	45.869	4518
4584	1.520	34.686	3.42	43.7		2.57	37.4	0.00		1.125	27.784	37.035	45.872	4672

MARATHON 2 STA. 87



LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
54 23.1N	151 57.8W	5/31/84	1530	4156	200	12	8.3	8.3	1008.5

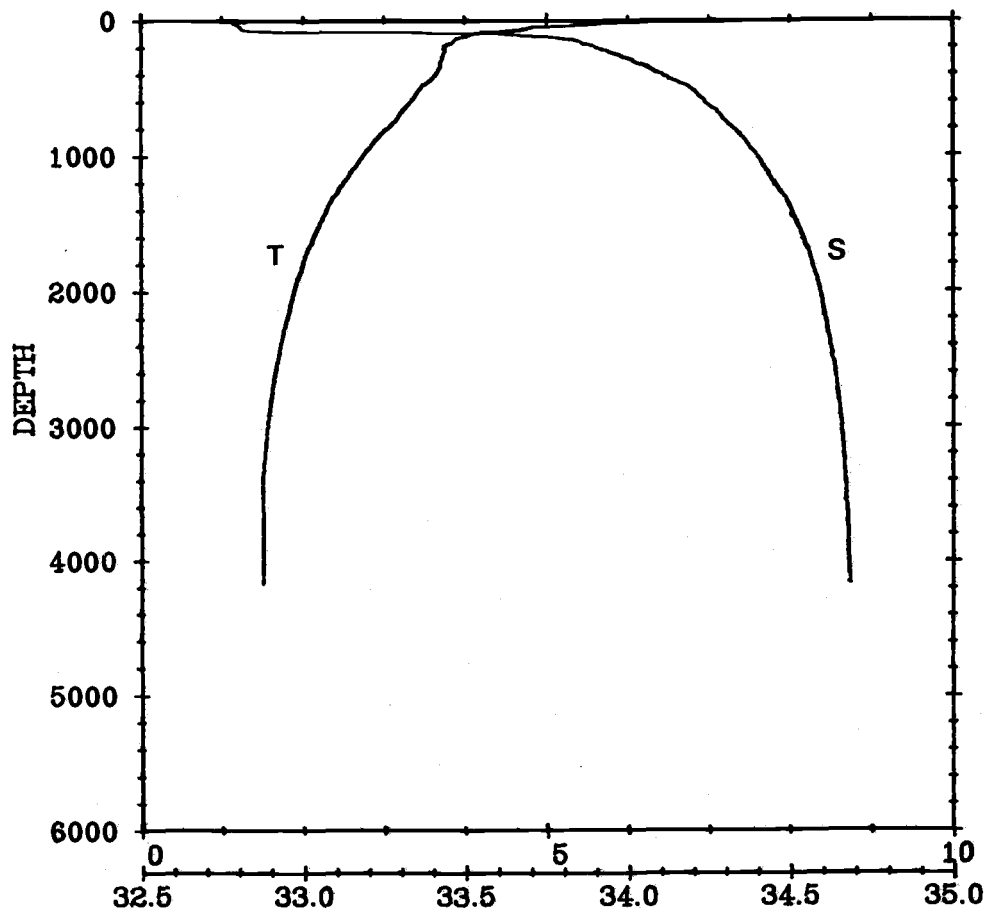
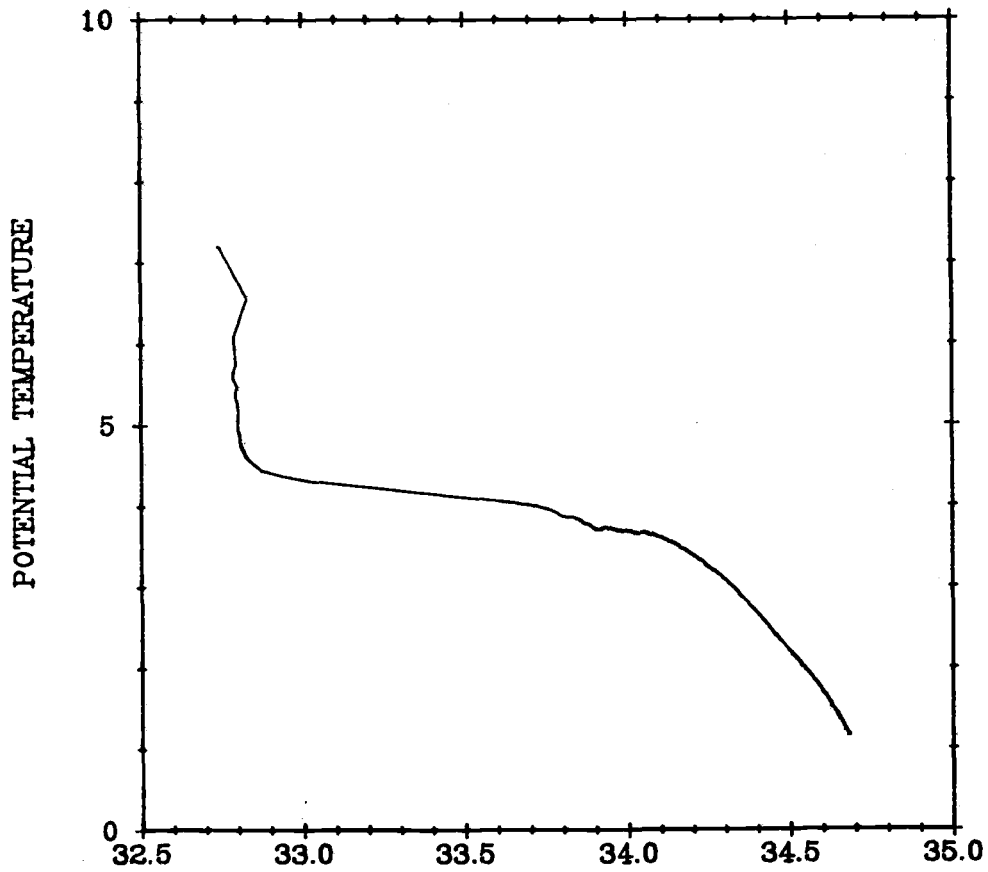
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	7.148	32.748	7.148	25.625	34.596	43.171	235.284	0.000	0
20	6.009	32.784	6.007	25.801	34.826	43.451	219.822	0.045	19
40	5.191	32.799	5.188	25.910	34.975	43.637	208.677	0.088	39
60	4.766	32.810	4.762	25.966	35.052	43.735	203.511	0.129	59
80	4.487	32.940	4.481	26.098	35.197	43.891	191.020	0.169	79
100	4.099	33.535	4.092	26.611	35.721	44.425	142.487	0.202	99
150	3.856	33.840	3.846	26.879	35.996	44.707	117.525	0.267	148
200	3.732	33.902	3.719	26.941	36.064	44.781	112.028	0.325	198
250	3.726	33.962	3.709	26.990	36.112	44.828	107.840	0.380	247
300	3.699	34.015	3.679	27.035	36.158	44.875	103.973	0.432	297
350	3.683	34.061	3.659	27.073	36.197	44.914	100.742	0.484	346
400	3.635	34.103	3.608	27.112	36.237	44.956	97.486	0.533	396
450	3.561	34.144	3.531	27.152	36.281	45.003	94.034	0.581	445
500	3.452	34.189	3.418	27.199	36.333	45.060	89.916	0.627	495
600	3.330	34.235	3.290	27.248	36.388	45.120	85.931	0.715	594
700	3.186	34.284	3.139	27.301	36.448	45.187	81.461	0.799	693
800	3.049	34.323	2.996	27.345	36.499	45.245	77.772	0.878	792
900	2.881	34.364	2.822	27.393	36.556	45.310	73.570	0.954	890
1000	2.745	34.396	2.679	27.432	36.602	45.362	70.336	1.026	989
1100	2.628	34.423	2.556	27.464	36.640	45.406	67.639	1.095	1088
1200	2.505	34.450	2.426	27.496	36.679	45.452	64.841	1.161	1186
1300	2.391	34.477	2.306	27.528	36.717	45.495	62.105	1.225	1285
1400	2.288	34.501	2.196	27.556	36.751	45.534	59.678	1.286	1383
1500	2.214	34.518	2.115	27.576	36.775	45.563	58.060	1.344	1482
1600	2.133	34.535	2.027	27.597	36.800	45.592	56.335	1.402	1580
1700	2.065	34.553	1.952	27.617	36.824	45.620	54.659	1.457	1679
1800	1.996	34.567	1.876	27.635	36.845	45.645	53.240	1.511	1777
1900	1.948	34.579	1.821	27.648	36.862	45.664	52.192	1.564	1875
2000	1.891	34.591	1.756	27.663	36.880	45.685	51.017	1.615	1974
2100	1.849	34.599	1.707	27.673	36.893	45.701	50.295	1.666	2072
2200	1.813	34.606	1.663	27.682	36.904	45.714	49.703	1.716	2170
2300	1.769	34.615	1.611	27.693	36.918	45.730	48.850	1.765	2268
2400	1.730	34.623	1.564	27.703	36.931	45.745	48.117	1.814	2366
2500	1.694	34.629	1.519	27.711	36.941	45.758	47.551	1.862	2464
2600	1.655	34.637	1.472	27.721	36.953	45.772	46.786	1.909	2562
2700	1.633	34.642	1.442	27.727	36.961	45.782	46.449	1.955	2660
2800	1.605	34.647	1.405	27.734	36.970	45.792	46.021	2.002	2758
2900	1.583	34.651	1.374	27.739	36.977	45.801	45.734	2.048	2856
3000	1.561	34.656	1.343	27.745	36.985	45.810	45.367	2.093	2954
3100	1.545	34.660	1.318	27.750	36.991	45.818	45.145	2.138	3052
3200	1.530	34.663	1.293	27.755	36.996	45.825	45.002	2.183	3149
3300	1.519	34.666	1.273	27.758	37.001	45.831	44.909	2.228	3247
3400	1.505	34.669	1.249	27.762	37.007	45.837	44.768	2.273	3345
3500	1.500	34.672	1.234	27.766	37.011	45.842	44.752	2.318	3442
3600	1.496	34.672	1.220	27.767	37.013	45.845	44.962	2.363	3540
3700	1.496	34.675	1.209	27.770	37.017	45.849	45.016	2.408	3637
3800	1.496	34.677	1.199	27.772	37.019	45.853	45.141	2.453	3735
3900	1.499	34.678	1.191	27.774	37.021	45.855	45.381	2.498	3832
4000	1.501	34.679	1.182	27.775	37.023	45.857	45.604	2.544	3929
4100	1.502	34.680	1.172	27.777	37.025	45.860	45.811	2.589	4027
4200	1.503	34.682	1.162	27.779	37.028	45.863	45.946	2.635	4124
4244	1.504	34.682	1.158	27.779	37.028	45.864	46.077	2.655	4167

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	7.174	32.755	7.17	105.0	29.2	1.42	15.9	0.21	7.174	25.627	34.596	43.170	1	
48	4.973	32.786	7.38	102.5	29.8	1.51	17.1	0.16	4.969	25.924	35.000	43.673	48	
72	4.748	32.816	7.30	100.9	31.9	1.58	18.3	0.18	4.743	25.972	35.059	43.743	72	
102	4.189	33.337	4.11	56.2	55.3	2.30	31.5	0.06	4.182	26.445	35.552	44.255	102	
151	3.905	33.809	1.53	20.8	82.2	2.92	42.2	0.01	3.895	26.849	35.964	44.674	152	
195	3.814	33.891	0.95	12.9	90.6	3.06	44.2	0.01	3.801	26.924	36.042	44.755	196	
248	3.778	33.962	0.61	8.3	99.4	3.12	45.2	0.01	3.761	26.984	36.104	44.818	250	
299	3.742	34.014	0.56	7.6	102.8	3.13	45.2	0.01	3.722	27.030	36.150	44.865	301	
399	3.623	34.102	0.51	6.9	115.6	3.10	45.0	0.01	3.596	27.112	36.238	44.958	402	
496	3.473	34.190	0.46	6.2	125.1	3.09	44.8	0.00	3.439	27.189	36.322	45.048	500	
593	3.320	34.241	0.46	6.2	132.2	3.09	44.9	0.00	3.280	27.253	36.393	45.126	598	
689	3.189	34.283	0.43	5.8	140.0	3.08	44.9	0.00	3.143	27.300	36.447	45.186	695	
782	3.053	34.322	0.41	5.5	143.2	3.11	44.8	0.00	3.001	27.344	36.497	45.243	789	
891	2.898	34.363	0.45	6.0	150.4	3.11	44.7	0.00	2.839	27.391	36.553	45.306	890	
1012	2.700	34.409	0.47	6.2	153.6	3.10	44.8	0.00	2.633	27.446	36.618	45.381	1022	
1236	2.454	34.466	0.58	7.6	166.8	3.08	44.6	0.00	2.372	27.514	36.699	45.474	1249	
1500	2.195	34.525	0.86	11.3	174.2	3.02	44.2	0.00	2.095	27.583	36.783	45.572	1517	
1730	2.046	34.560	1.09	14.2	175.1	2.99	43.4	0.00	1.930	27.625	36.833	45.629	1751	
2011	1.896	34.592	1.44	18.7	178.3	2.94	42.6	0.00	1.758	27.663	36.880	45.685	2037	
2494	1.687	34.634	2.09	27.0	177.5	2.81	41.0	0.00	1.510	27.716	36.946	45.763	2529	
2983	1.567	34.657	2.63	33.8	177.8	2.70	39.5	0.00	1.346	27.746	36.985	45.810	3029	
3464	1.500	34.673	3.02	38.7	174.5	2.62	38.3	0.00	1.232	27.767	37.012	45.843	3521	
3931	1.498	34.680	3.21	41.1	173.6	2.58	37.7	0.00	1.180	27.776	37.024	45.858	4001	
4166	1.504	34.683	3.28	41.9	175.4	2.57	37.6	0.00	1.159	27.780	37.029	45.864	4242	

MARATHON 2 STA. 88

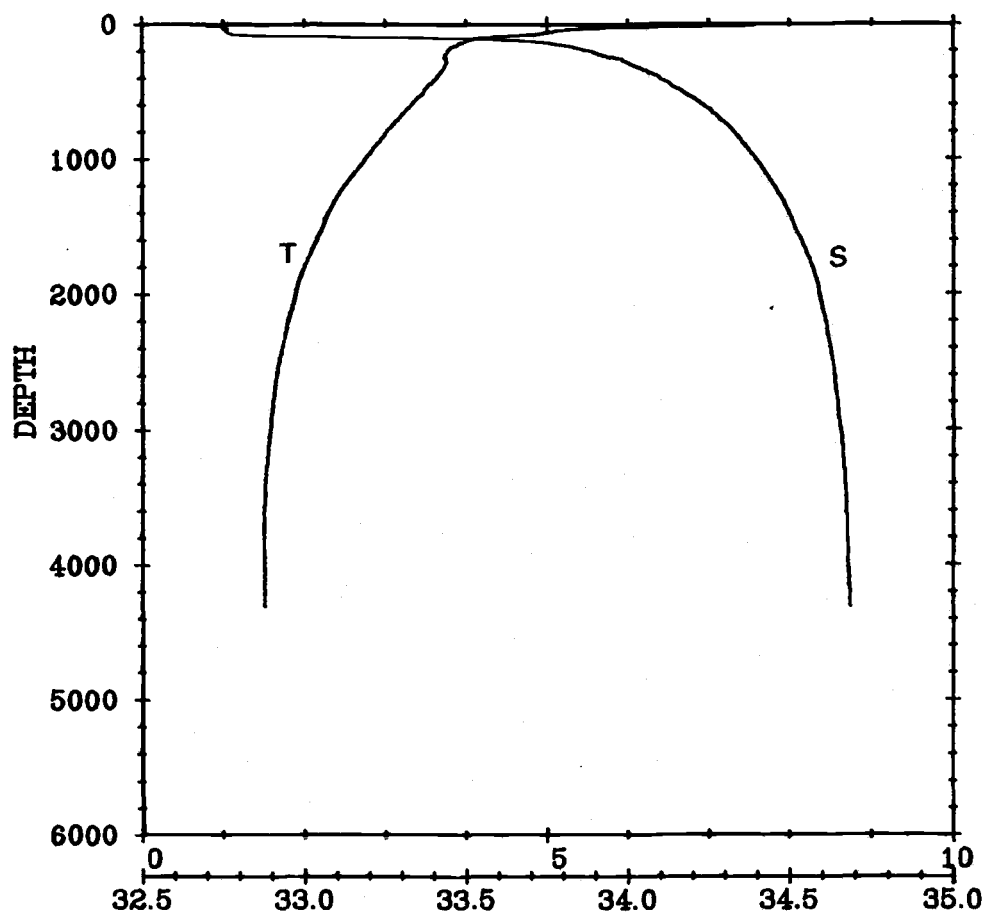
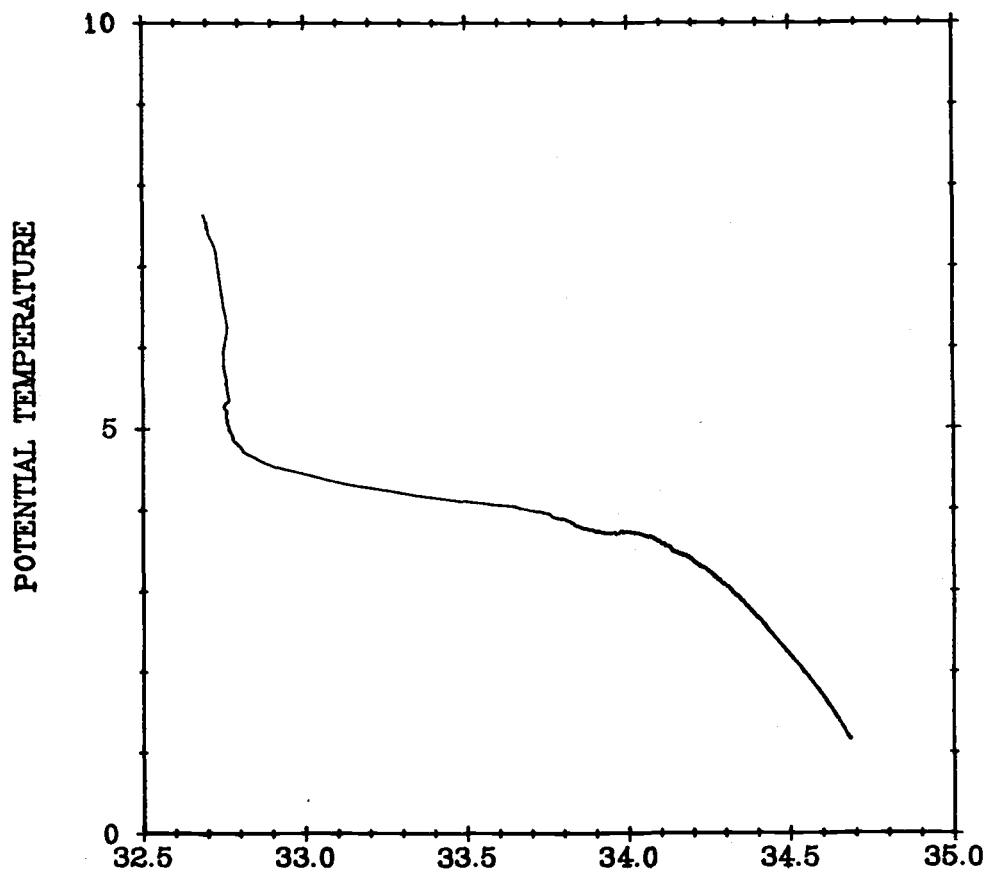


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
54 40.2N	152 5.3W	5/31/84	2218	4316	20	2	12.2	10.6	1011.2

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP							
DB	DEG C	DEG C				CL/TON		M
0	7.526	32.697	25.533	34.487	43.046	244.043	0.000	0
20	6.832	32.727	25.551	34.637	43.226	233.090	0.048	19
40	5.377	32.758	25.856	34.912	43.567	213.794	0.092	39
60	5.040	32.764	25.899	34.972	43.643	209.865	0.135	59
80	4.759	32.823	25.977	35.063	43.746	202.629	0.176	79
100	4.284	33.216	26.339	35.444	44.144	168.350	0.213	99
150	3.915	33.779	26.825	35.940	44.649	122.696	0.286	148
200	3.771	33.881	26.920	36.041	44.756	113.991	0.345	198
250	3.733	33.952	26.981	36.103	44.819	108.661	0.401	247
300	3.746	34.008	27.025	36.145	44.860	104.971	0.454	297
350	3.698	34.057	27.069	36.191	44.908	101.195	0.506	346
400	3.633	34.095	27.106	36.231	44.951	98.065	0.555	396
450	3.554	34.131	27.142	36.272	44.995	94.936	0.604	445
500	3.475	34.167	27.179	36.312	45.038	91.798	0.650	495
600	3.327	34.230	27.244	36.384	45.117	86.274	0.739	594
700	3.172	34.282	27.301	36.448	45.189	81.464	0.823	693
800	3.015	34.327	27.351	36.507	45.255	77.118	0.903	792
900	2.889	34.362	27.391	36.553	45.307	73.804	0.978	890
1000	2.758	34.394	27.429	36.598	45.358	70.623	1.050	989
1100	2.637	34.423	27.463	36.639	45.405	67.736	1.119	1088
1200	2.508	34.450	27.496	36.679	45.451	64.874	1.186	1186
1300	2.391	34.477	27.528	36.717	45.495	62.105	1.249	1285
1400	2.303	34.498	27.553	36.746	45.529	60.066	1.310	1383
1500	2.235	34.514	27.571	36.769	45.556	58.591	1.370	1482
1600	2.155	34.532	27.593	36.795	45.586	56.806	1.427	1580
1700	2.078	34.549	27.613	36.819	45.614	55.103	1.483	1679
1800	2.001	34.566	27.633	36.844	45.643	53.372	1.538	1777
1900	1.937	34.580	27.650	36.865	45.667	51.988	1.590	1875
2000	1.892	34.589	27.661	36.878	45.684	51.175	1.642	1974
2100	1.853	34.598	27.672	36.892	45.699	50.417	1.693	2072
2200	1.806	34.607	27.683	36.906	45.716	49.544	1.743	2170
2300	1.770	34.615	27.693	36.918	45.730	48.863	1.792	2268
2400	1.733	34.622	27.702	36.929	45.744	48.227	1.840	2366
2500	1.695	34.630	27.712	36.941	45.758	47.491	1.888	2464
2600	1.666	34.635	27.719	36.950	45.769	47.075	1.935	2562
2700	1.642	34.640	27.725	36.958	45.779	46.713	1.982	2660
2800	1.620	34.645	27.731	36.966	45.788	46.367	2.029	2758
2900	1.601	34.649	27.736	36.973	45.796	46.125	2.075	2856
3000	1.583	34.653	27.742	36.980	45.804	45.888	2.121	2954
3100	1.561	34.657	27.747	36.987	45.813	45.585	2.167	3052
3200	1.546	34.660	27.751	36.992	45.820	45.445	2.212	3149
3300	1.531	34.664	27.756	36.998	45.827	45.226	2.258	3247
3400	1.519	34.667	27.760	37.004	45.833	45.115	2.303	3345
3500	1.512	34.670	27.763	37.008	45.839	45.073	2.348	3442
3600	1.506	34.672	27.766	37.012	45.843	45.113	2.393	3540
3700	1.504	34.674	27.769	37.015	45.847	45.209	2.438	3637
3800	1.503	34.675	27.770	37.017	45.850	45.390	2.484	3735
3900	1.504	34.677	27.772	37.020	45.853	45.530	2.529	3832
4000	1.508	34.678	27.774	37.021	45.855	45.786	2.575	3930
4100	1.510	34.680	27.776	37.024	45.858	45.940	2.621	4027
4200	1.512	34.681	27.777	37.026	45.861	46.163	2.667	4124
4300	1.514	34.682	27.779	37.028	45.863	46.385	2.713	4221
4400	1.519	34.683	27.780	37.030	45.865	46.657	2.759	4319
4400	1.519	34.683	27.780	37.030	45.865	46.657	2.759	4319

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TURBIN	DEG C				DB
1	7.696	32.701	7.12	105.5	25.7	1.38	14.4	0.20	7.696	25.512	34.458	43.009	1
11	7.456	32.705	7.15	105.3	26.0	1.38	14.5	0.20	7.455	25.549	34.506	43.068	11
31	5.733	32.759	7.56	107.0	28.7	1.46	16.0	0.20	5.731	25.815	34.853	43.491	31
57	5.070	32.765	7.40	103.0	29.6	1.51	16.9	0.18	5.066	25.896	34.968	43.637	57
88	4.552	32.887	6.55	90.1	35.6	1.74	20.4	0.22	4.546	26.050	35.146	43.837	88
155	3.900	33.798D							3.889	26.841	35.957	44.665	155
195	3.773	33.875D							3.760	26.915	36.036	44.751	195
298	3.749	34.007	0.56	7.6	102.7	3.14	45.0	0.01	3.729	27.023	36.144	44.859	298
394	3.635	34.094	0.51	6.9	114.2	3.14	44.8	0.01	3.608	27.105	36.230	44.949	394
496	3.473	34.170	0.49	6.6	122.6	3.12	44.5	0.00	3.439	27.181	36.314	45.041	496
599	3.322	34.234	0.49	6.6	131.2	3.10	44.2	0.00	3.282	27.248	36.388	45.121	599
698	3.167	34.286	0.48	6.4	138.0	3.11	44.6	0.00	3.120	27.304	36.452	45.192	698
789	3.021	34.329	0.44	5.9	143.2	3.15	44.7	0.00	2.968	27.352	36.508	45.255	789
885	2.903	34.363	0.40	5.3	147.7	3.15	44.8	0.00	2.844	27.391	36.552	45.305	885
995	2.753	34.398	0.45	6.0	151.7	3.14	44.7	0.00	2.687	27.432	36.602	45.362	995
1228	2.458	34.466	0.59	7.8	163.8	3.11	44.6	0.00	2.377	27.513	36.698	45.473	1228
1490	2.214	34.518	0.82	10.7	169.2	3.07	44.1	0.00	2.135	27.575	36.772	45.559	1490
1747	2.028	34.564			172.0	3.01	43.4	0.00	1.910	27.629	36.838	45.636	1747
1985	1.889	34.594	1.44	18.7	174.4	2.96	42.6	0.00	1.754	27.666	36.883	45.688	1985
2467	1.693	34.633	2.06	26.6	176.3	2.84	41.0	0.00	1.519	27.714	36.944	45.761	2467
2982	1.577	34.658	2.58	33.2	170.8	2.74	39.4	0.00	1.356	27.746	36.984	45.809	2982
3481	1.512	34.672	2.98	38.2	171.4	2.66	38.4	0.00	1.242	27.765	37.010	45.841	3481
3966	1.508	34.679	3.21	41.1	172.7	2.61	37.7	0.00	1.185	27.775	37.022	45.856	3966
4318	1.519	34.684	3.28	41.9	172.7	2.59	37.6	0.00	1.156	27.781	37.030	45.865	4318

MARATHON 2 STA. 89

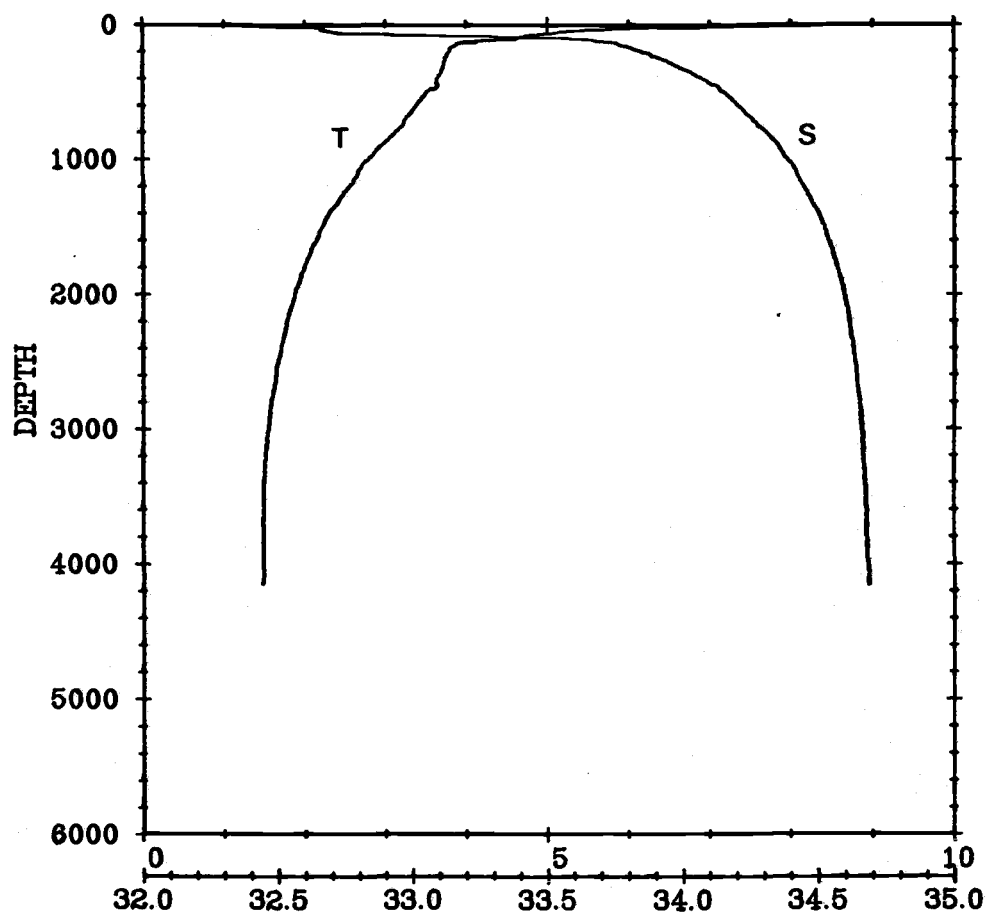
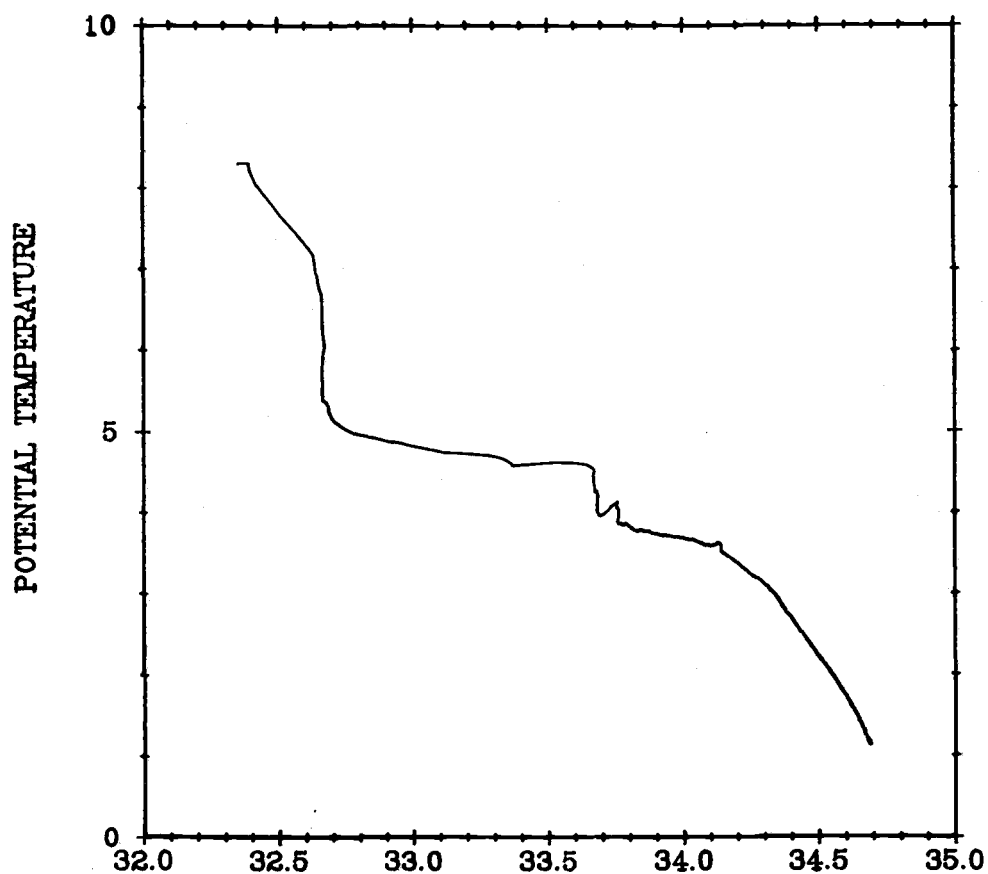


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
54 57.4N	152 23.9W	6/ 1/84	518	4127	50	13	8.3	7.8	1013.5

CTD DATA		POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
PRESS	TEMP							
DB	DEG C	DEG C				CL/TON		M
0	8.284	32.387	25.181	34.105	42.635	277.536	0.000	0
20	7.343	32.544	25.439	34.403	42.972	253.341	0.053	19
40	5.635	32.667	25.632	34.799	43.443	223.513	0.101	39
60	5.115	32.725	25.860	34.930	43.597	213.604	0.144	59
80	4.823	33.018	26.125	35.205	43.882	188.635	0.185	79
100	4.625	33.462	26.498	35.582	44.262	153.347	0.219	99
150	3.898	33.766	26.816	35.932	44.642	123.507	0.288	148
200	3.794	33.846	26.890	36.011	44.725	116.850	0.348	198
250	3.740	33.912	26.949	36.071	44.787	111.736	0.405	247
300	3.720	33.966	26.994	36.116	44.833	107.862	0.460	297
350	3.693	34.024	27.043	36.167	44.884	103.619	0.513	346
400	3.642	34.069	27.084	36.210	44.929	100.105	0.564	396
450	3.638	34.115	27.122	36.247	44.966	96.997	0.613	445
500	3.528	34.149	27.160	36.290	45.014	93.691	0.651	495
600	3.394	34.206	27.219	36.356	45.086	88.762	0.752	594
700	3.254	34.258	27.274	36.418	45.154	84.111	0.839	693
800	3.135	34.308	27.325	36.475	45.217	79.797	0.921	792
900	2.958	34.355	27.379	36.538	45.289	75.056	0.998	890
1000	2.798	34.388	27.421	36.588	45.346	71.496	1.071	989
1100	2.655	34.420	27.459	36.634	45.399	68.153	1.141	1088
1200	2.549	34.447	27.470	36.671	45.441	65.542	1.208	1186
1300	2.428	34.473	27.522	36.709	45.485	62.808	1.272	1285
1400	2.302	34.501	27.555	36.749	45.532	59.834	1.333	1383
1500	2.215	34.520	27.578	36.776	45.564	57.924	1.392	1482
1600	2.146	34.536	27.597	36.799	45.591	56.410	1.450	1580
1700	2.065	34.554	27.618	36.825	45.621	54.585	1.505	1679
1800	1.998	34.568	27.635	36.846	45.645	53.190	1.559	1777
1900	1.936	34.581	27.651	36.865	45.668	51.903	1.611	1875
2000	1.877	34.594	27.667	36.884	45.690	50.629	1.663	1974
2100	1.835	34.602	27.677	36.897	45.706	49.905	1.713	2072
2200	1.786	34.613	27.690	36.913	45.724	48.859	1.762	2170
2300	1.757	34.619	27.697	36.923	45.736	48.409	1.811	2268
2400	1.714	34.627	27.707	36.936	45.751	47.622	1.859	2366
2500	1.680	34.633	27.715	36.946	45.763	47.080	1.906	2464
2600	1.649	34.640	27.724	36.956	45.776	46.490	1.953	2562
2700	1.629	34.644	27.729	36.963	45.784	46.251	2.000	2660
2800	1.594	34.650	27.737	36.974	45.797	45.656	2.045	2758
2900	1.567	34.655	27.744	36.982	45.807	45.228	2.091	2856
3000	1.552	34.659	27.748	36.988	45.814	45.026	2.136	2954
3100	1.531	34.663	27.754	36.995	45.821	44.733	2.181	3052
3200	1.519	34.665	27.757	36.999	45.828	44.702	2.226	3149
3300	1.504	34.667	27.760	37.004	45.834	44.621	2.270	3247
3400	1.495	34.670	27.764	37.009	45.840	44.550	2.315	3345
3500	1.492	34.672	27.766	37.012	45.844	44.633	2.359	3442
3600	1.487	34.675	27.770	37.016	45.849	44.613	2.404	3540
3700	1.484	34.677	27.772	37.019	45.853	44.692	2.449	3637
3800	1.484	34.678	27.774	37.022	45.855	44.884	2.494	3735
3900	1.490	34.678	27.774	37.022	45.856	45.240	2.539	3832
4000	1.491	34.680	27.777	37.025	45.859	45.375	2.584	3930
4100	1.487	34.682	27.779	37.029	45.864	45.430	2.629	4027
4200	1.479	34.685	27.783	37.033	45.869	45.346	2.675	4124
4228	1.473	34.685	27.784	37.034	45.871	45.319	2.687	4151

NISKIN BOTTLE DATA		DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
DEPTH	TEMP												
M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	8.244	32.476	7.34	109.9	10.3	0.80	3.6	0.06	8.244	25.257	34.181	42.711	1
11	7.974	32.531	7.34	109.3	14.8	0.93	6.2	0.08	7.973	25.339	34.275	42.817	11
31	5.970	32.671	7.62	108.4	23.3	1.24	12.2	0.16	5.967	25.717	34.745	43.373	31
76	4.875	32.797	6.82	94.5	29.4	1.56	17.3	0.22	4.869	25.943	35.024	43.702	76
97	4.287	33.283	4.35	59.6	53.1	2.25	30.0	0.06	4.280	26.392	35.495	44.194	97
130	3.972	33.692	2.25	30.7	73.2	2.79	39.6	0.01	3.963	26.750	35.863	44.571	130
192	3.762	33.870	1.15	15.6	90.5	3.03	43.9	0.00	3.749	26.912	36.034	44.750	193
261	3.727	33.943	0.78	10.6	99.4	3.13	44.8	0.00	3.709	26.974	36.097	44.813	263
345	3.684	34.027	0.63	8.5	105.6	3.15	45.1	0.00	3.661	27.046	36.170	44.887	347
423	3.605	34.098	0.56	7.6	116.4	3.16	44.7	0.00	3.576	27.111	36.238	44.958	426
598	3.335	34.227	0.48	6.5	129.1	3.14	45.0	0.00	3.295	27.241	36.380	45.113	603
690	3.259	34.266	0.43	5.8	138.1	3.15	45.2	0.00	3.212	27.280	36.423	45.159	696
794	3.104	34.320	0.36	4.8	144.1	3.18	45.4	0.00	3.050	27.338	36.489	45.232	801
888	2.966	34.349	0.41	5.5	149.1	3.17	45.3	0.00	2.906	27.374	36.532	45.282	897
1007	2.786	34.391	0.42	5.6	154.3	3.17	45.4	0.00	2.719	27.424	36.592	45.351	1017
1237	2.489	34.458	0.54	7.1	165.1	3.15	45.0	0.00	2.407	27.504	36.688	45.461	1250
1535	2.175	34.529	0.86	11.2	174.3	3.09	44.5	0.00	2.071	27.588	36.789	45.579	1553
1742	2.002	34.567	1.20	15.6	176.7	3.04	43.8	0.00	1.885	27.634	36.844	45.643	1763
2002	1.873	34.596	1.49	19.3	177.1	2.98	42.9	0.00	1.736	27.668	36.886	45.693	2028
2473	1.681	34.633	2.10	27.1	176.8	2.87	41.3	0.00	1.506	27.715	36.945	45.763	2508
2961	1.550	34.659	2.66	34.2	175.6	2.75	39.6	0.00	1.332	27.749	36.988	45.814	3006
3471	1.488	34.673	3.06	39.2	171.3	2.66	38.6	0.00	1.220	27.768	37.013	45.845	3529
3896	1.490	34.681	3.21	41.1	171.3	2.63	38.1	0.00	1.176	27.777	37.025	45.860	3965
4151	1.472	34.685	3.40	43.5	168.9	2.60	37.4	0.00	1.129	27.783	37.034	45.871	4227

MARATHON 2 STA. 90

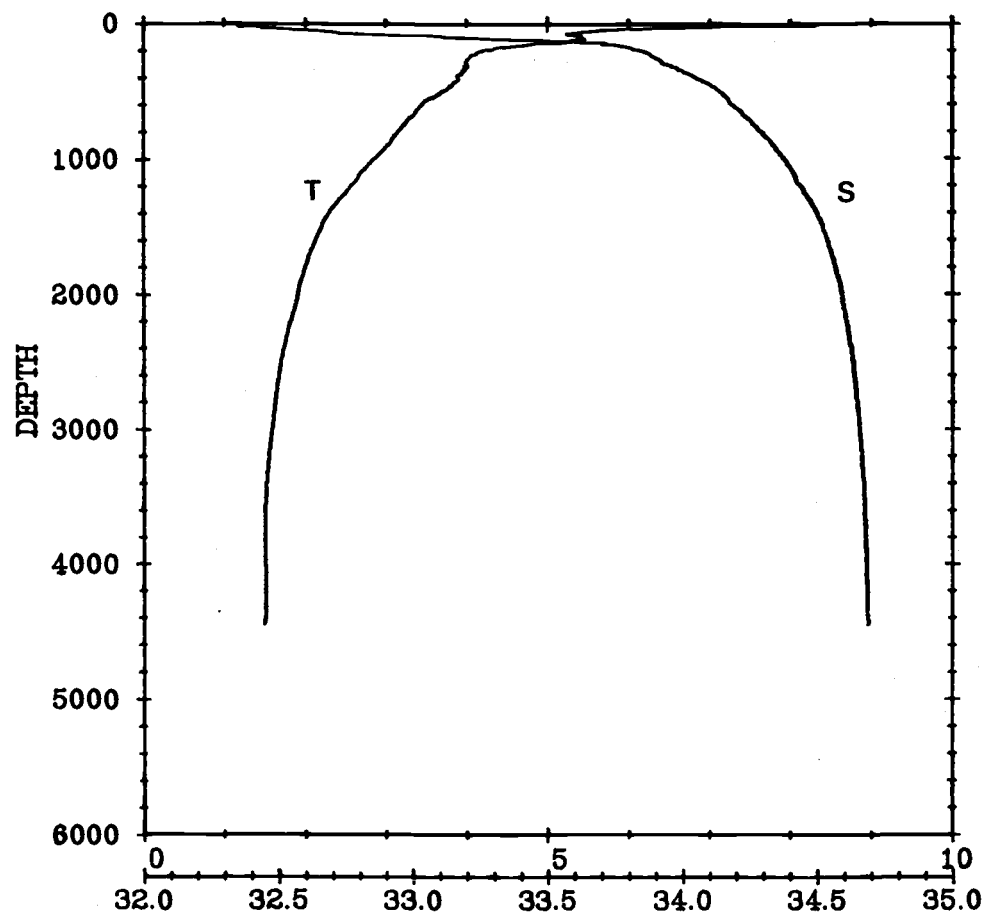
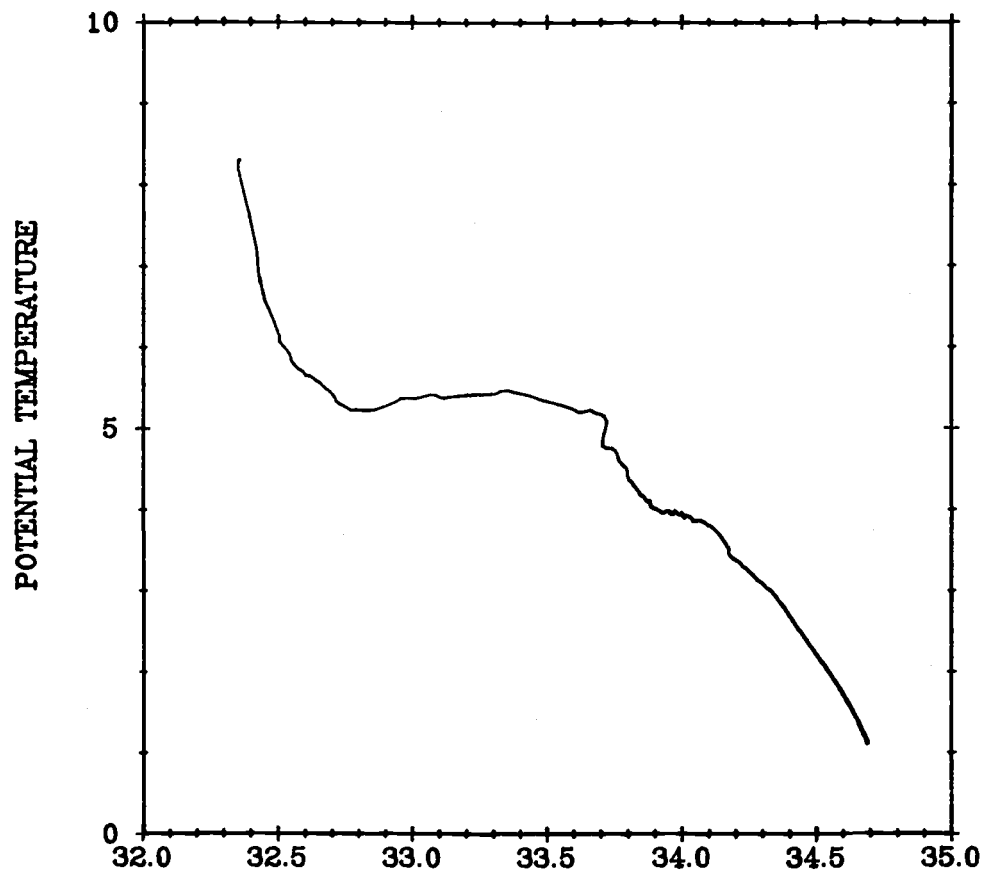


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
55 13.9N	152 31.5W	6/ 1/84	1218	4451	70	8	8.9	7.8	1016.5

CTD DATA		POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
PRESS DB	TEMP DEG C							
0	8.308	32.357	25.154	34.077	42.607	280.110	0.000	0
20	7.597	32.394	25.286	34.241	42.800	267.907	0.055	19
40	6.129	32.518	6.126	25.576	34.600	43.221	0.106	39
60	5.479	32.677	5.474	25.780	34.833	43.484	0.152	59
80	5.298	32.860	5.292	25.946	35.005	43.662	0.194	79
100	5.413	33.142	5.405	26.156	35.205	43.853	0.234	99
150	4.942	33.713	4.931	26.663	35.727	44.388	0.315	148
200	4.223	33.844	4.209	26.845	35.943	44.637	0.380	198
250	4.038	33.897	4.021	26.907	36.014	44.716	0.439	247
300	3.995	33.939	3.974	26.945	36.054	44.757	0.496	297
350	3.967	33.999	3.943	26.996	36.105	44.810	0.551	347
400	3.891	34.049	3.863	27.044	36.156	44.864	0.604	396
450	3.835	34.100	3.804	27.090	36.205	44.915	0.656	445
500	3.730	34.139	3.695	27.132	36.252	44.966	0.705	495
600	3.456	34.184	3.415	27.195	36.329	45.057	0.799	594
700	3.212	34.241	3.255	27.255	36.396	45.130	0.887	693
800	3.164	34.289	3.110	27.307	36.456	45.197	0.971	792
900	3.040	34.337	2.980	27.358	36.512	45.259	1.050	890
1000	2.875	34.375	2.808	27.403	36.567	45.321	1.125	989
1100	2.717	34.408	2.644	27.444	36.616	45.378	1.197	1088
1200	2.589	34.436	2.510	27.478	36.657	45.425	1.265	1186
1300	2.447	34.467	2.361	27.515	36.701	45.477	1.330	1285
1400	2.308	34.498	2.216	27.552	36.746	45.528	1.392	1383
1500	2.209	34.521	2.110	27.579	36.778	45.566	1.451	1482
1600	2.137	34.538	2.031	27.599	36.802	45.594	1.508	1580
1700	2.067	34.553	1.954	27.617	36.824	45.620	1.564	1679
1800	2.009	34.566	1.889	27.633	36.843	45.642	1.618	1777
1900	1.956	34.578	1.829	27.647	36.860	45.662	1.670	1875
2000	1.909	34.588	1.774	27.659	36.875	45.680	1.722	1974
2100	1.872	34.596	1.729	27.669	36.888	45.694	1.774	2072
2200	1.826	34.606	1.675	27.681	36.902	45.712	1.824	2170
2300	1.780	34.614	1.622	27.691	36.916	45.728	1.873	2268
2400	1.739	34.622	1.573	27.702	36.928	45.743	1.922	2366
2500	1.702	34.630	1.527	27.711	36.941	45.757	1.970	2464
2600	1.676	34.635	1.493	27.718	36.949	45.767	2.017	2562
2700	1.651	34.640	1.459	27.724	36.957	45.777	2.064	2660
2800	1.632	34.644	1.431	27.729	36.964	45.785	2.111	2758
2900	1.609	34.649	1.399	27.736	36.972	45.795	2.157	2856
3000	1.593	34.653	1.374	27.741	36.978	45.803	2.204	2954
3100	1.570	34.657	1.342	27.746	36.986	45.811	2.249	3051
3200	1.550	34.661	1.313	27.752	36.992	45.820	2.295	3149
3300	1.535	34.665	1.288	27.756	36.999	45.827	2.340	3247
3400	1.523	34.668	1.266	27.760	37.004	45.833	2.386	3344
3500	1.511	34.670	1.245	27.764	37.008	45.839	2.431	3442
3600	1.508	34.673	1.231	27.767	37.012	45.844	2.476	3540
3700	1.502	34.675	1.215	27.770	37.016	45.848	2.521	3637
3800	1.502	34.676	1.205	27.771	37.019	45.851	2.566	3734
3900	1.504	34.678	1.196	27.773	37.021	45.854	2.611	3832
4000	1.505	34.679	1.186	27.775	37.022	45.856	2.657	3929
4100	1.507	34.680	1.177	27.776	37.025	45.859	2.703	4027
4200	1.510	34.681	1.169	27.778	37.026	45.861	2.749	4124
4300	1.514	34.682	1.161	27.779	37.028	45.863	2.795	4221
4400	1.515	34.684	1.151	27.781	37.031	45.866	2.841	4318
4500	1.498	34.687	1.123	27.786	37.037	45.874	2.888	4415
4532	1.494	34.688	1.115	27.787	37.038	45.876	2.903	4447

NISKIN BOTTLE DATA		DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
DEPTH M	TEMP DEG C												
1	9.276	32.364	7.20	107.8	11.1	0.85	4.6	0.10	8.276	25.164	34.088	42.619	1
45	6.122	32.523	6.87	98.0	19.2	1.20	11.3	0.29	6.118	25.581	34.604	43.228	45
99	5.438	33.195	4.72	66.5	40.7	1.92	25.4	0.02	5.430	26.195	35.242	43.887	99
129	5.297	33.542	3.57	50.2	51.0	2.23	31.0	0.02	5.287	26.487	35.535	44.182	129
163	4.654	33.766	2.43	33.7	66.8	2.59	37.0	0.01	4.642	26.737	35.814	44.488	164
197	4.316	33.826	1.92	28.4	76.0	2.77	39.8	0.01	4.302	26.821	35.915	44.604	198
247	4.090	33.885	1.39	19.0	85.0	2.92	42.2	0.01	4.073	26.892	35.996	44.696	249
297	4.000	33.941	1.02	13.9	91.5	3.00	43.4	0.01	3.979	26.946	36.054	44.758	299
395	3.878	34.047	0.71	9.7	103.3	3.06	44.2	0.00	3.850	27.043	36.157	44.865	398
494	3.729	34.145	0.53	7.2	115.7	3.09	44.5	0.00	3.695	27.137	36.257	44.971	498
593	3.428	34.198	0.49	6.6	126.7	3.11	44.7	0.00	3.388	27.209	36.344	45.073	598
691	3.271	34.257	0.46	6.2	135.8	3.11	44.7	0.00	3.224	27.271	36.414	45.150	697
789	3.139	34.302	0.42	5.6	140.7	3.13	44.9	0.00	3.086	27.320	36.469	45.211	796
875	3.046	34.336	0.39	5.2	145.0	3.14	44.9	0.00	2.987	27.356	36.510	45.257	884
994	2.844	34.384	0.41	5.5	152.4	3.14	45.1	0.00	2.777	27.413	36.578	45.334	1004
1238	2.521	34.455	0.55	7.3	163.1	3.12	44.9	0.00	2.438	27.499	36.681	45.453	1251
1487	2.218	34.521	0.82	10.7	172.8	3.06	44.3	0.00	2.119	27.578	36.776	45.564	1504
1726	2.035	34.563	1.13	14.7	177.1	3.02	43.5	0.00	1.919	27.628	36.836	45.634	1747
1994	1.878	34.596	1.48	19.2	177.4	2.96	42.8	0.00	1.742	27.668	36.886	45.691	2020
2515	1.686	34.635	2.08	25.8	177.3	2.83	41.1	0.00	1.507	27.717	36.947	45.764	2551
2998	1.576	34.657	2.61	33.5	175.2	2.74	39.6	0.00	1.354	27.745	36.984	45.809	3044
3493	1.505	34.673	3.01	38.6	172.6	2.66	38.4	0.00	1.235	27.767	37.011	45.843	3551
3957	1.504	34.680	3.19	40.8	170.0	2.61	38.0	0.00	1.182	27.776	37.024	45.857	4028
4446	1.494	34.688	3.46	44.2	167.8	2.55	37.1	0.00	1.116	27.787	37.038	45.875	4531

MARATHON 2 STA. 91

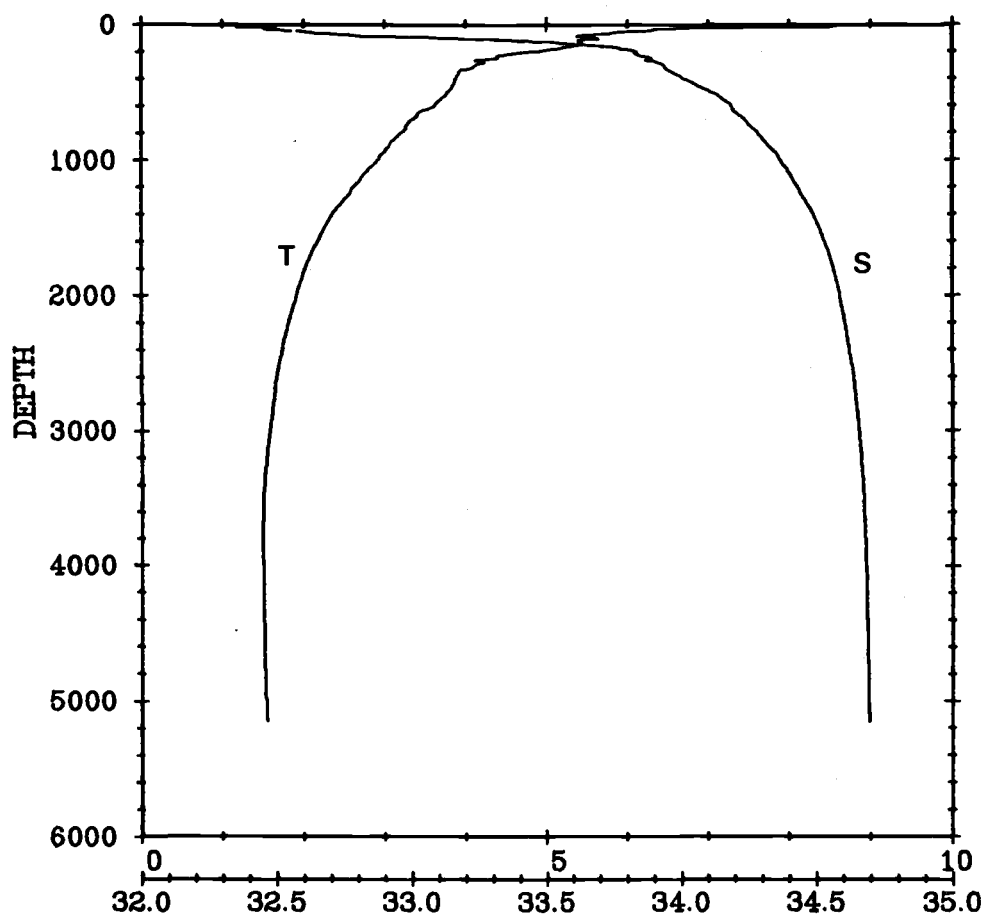
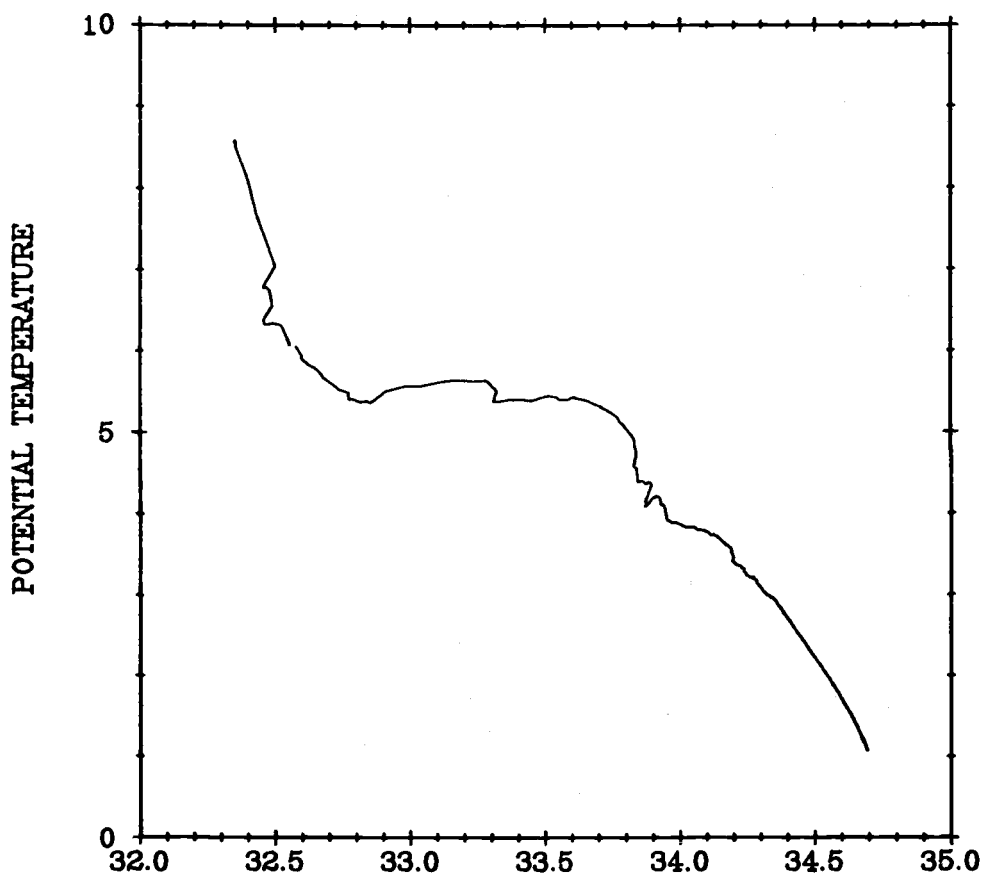


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
55 25.6N	152 38.1W	6/ 1/84	1900	5155	150	5	11.1	8.9	1019.3

CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C					CL/TON		M
0	8.569	32.351	8.569	25.110	34.022	42.541	284.255	0.000		0
20	7.805	32.408	7.803	25.267	34.213	42.763	269.657	0.055		19
40	6.328	32.506	6.325	25.542	34.556	43.171	243.680	0.107		39
60	5.829	32.630	5.824	25.702	34.738	43.374	228.714	0.154		59
80	5.471	32.791	5.465	25.872	34.923	43.573	212.755	0.198		79
100	5.590	33.125	5.582	26.122	35.162	43.802	189.255	0.238		99
150	5.391	33.641	5.379	26.554	35.597	44.238	148.835	0.323		148
200	4.844	33.829	4.829	26.766	35.833	44.498	129.107	0.392		198
250	4.367	33.885	4.349	26.863	35.953	44.640	120.213	0.455		247
300	4.140	33.932	4.119	26.924	36.026	44.723	114.727	0.513		297
350	3.927	33.962	3.903	26.970	36.083	44.789	110.668	0.570		347
400	3.883	34.006	3.855	27.010	36.124	44.833	107.314	0.624		396
450	3.851	34.057	3.820	27.054	36.170	44.879	103.560	0.677		446
500	3.787	34.109	3.752	27.103	36.220	44.932	99.390	0.728		495
600	3.621	34.185	3.580	27.180	36.305	45.025	92.721	0.824		594
700	3.363	34.233	3.315	27.244	36.382	45.114	87.126	0.914		693
800	3.221	34.283	3.167	27.297	36.443	45.181	82.574	0.999		792
900	3.058	34.324	2.997	27.346	36.500	45.246	78.431	1.079		890
1000	2.927	34.367	2.860	27.392	36.553	45.305	74.445	1.155		989
1100	2.767	34.401	2.694	27.434	36.603	45.363	70.776	1.228		1088
1200	2.630	34.430	2.550	27.470	36.646	45.413	67.687	1.297		1186
1300	2.503	34.459	2.417	27.504	36.688	45.461	64.671	1.363		1285
1400	2.364	34.488	2.271	27.540	36.730	45.510	61.484	1.427		1383
1500	2.270	34.509	2.171	27.565	36.760	45.545	59.354	1.487		1482
1600	2.185	34.528	2.079	27.587	36.788	45.577	57.443	1.545		1580
1700	2.098	34.547	1.985	27.610	36.815	45.609	55.481	1.602		1679
1800	2.027	34.562	1.907	27.628	36.838	45.635	53.970	1.657		1777
1900	1.971	34.574	1.843	27.643	36.855	45.656	52.831	1.710		1875
2000	1.919	34.585	1.784	27.656	36.872	45.676	51.793	1.762		1974
2100	1.871	34.595	1.728	27.668	36.887	45.693	50.855	1.814		2072
2200	1.824	34.605	1.673	27.680	36.902	45.711	49.912	1.864		2170
2300	1.782	34.613	1.624	27.691	36.915	45.727	49.160	1.914		2268
2400	1.745	34.621	1.578	27.700	36.927	45.741	48.454	1.962		2366
2500	1.709	34.629	1.534	27.710	36.939	45.755	47.745	2.010		2464
2600	1.675	34.635	1.492	27.718	36.949	45.767	47.194	2.058		2562
2700	1.654	34.639	1.462	27.723	36.956	45.776	46.945	2.105		2660
2800	1.632	34.644	1.431	27.729	36.964	45.785	46.601	2.152		2758
2900	1.610	34.649	1.400	27.736	36.972	45.795	46.248	2.198		2856
3000	1.587	34.654	1.368	27.742	36.980	45.804	45.871	2.244		2954
3100	1.563	34.658	1.335	27.748	36.987	45.813	45.542	2.290		3051
3200	1.545	34.662	1.308	27.753	36.994	45.821	45.288	2.335		3149
3300	1.529	34.665	1.282	27.757	36.999	45.828	45.125	2.381		3247
3400	1.514	34.669	1.258	27.762	37.006	45.836	44.899	2.426		3344
3500	1.505	34.671	1.239	27.765	37.010	45.841	44.898	2.470		3442
3600	1.500	34.673	1.224	27.767	37.013	45.845	44.951	2.515		3540
3700	1.495	34.676	1.208	27.771	37.017	45.850	44.930	2.560		3637
3800	1.493	34.677	1.196	27.772	37.020	45.853	45.094	2.605		3735
3900	1.492	34.679	1.184	27.775	37.023	45.857	45.200	2.650		3832
4000	1.494	34.680	1.175	27.776	37.025	45.859	45.423	2.696		3929
4100	1.496	34.682	1.166	27.779	37.027	45.862	45.574	2.741		4027
4200	1.498	34.683	1.157	27.780	37.029	45.865	45.795	2.787		4124
4300	1.500	34.684	1.148	27.781	37.031	45.867	46.015	2.833		4221
4400	1.504	34.685	1.140	27.783	37.033	45.869	46.267	2.879		4318
4500	1.506	34.686	1.131	27.784	37.035	45.872	46.485	2.925		4415
4600	1.508	34.687	1.121	27.786	37.037	45.874	46.703	2.972		4513
4700	1.513	34.688	1.114	27.787	37.039	45.876	46.970	3.019		4610
4800	1.515	34.689	1.104	27.788	37.041	45.879	47.187	3.066		4707
4900	1.519	34.689	1.096	27.789	37.042	45.880	47.506	3.113		4804
5000	1.523	34.690	1.088	27.790	37.043	45.882	47.756	3.161		4901
5100	1.528	34.691	1.080	27.792	37.045	45.884	48.024	3.209		4998
5200	1.536	34.692	1.076	27.793	37.047	45.886	48.345	3.257		5094
5244	1.540	34.693	1.074	27.794	37.048	45.887	48.458	3.278		5137

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	8.691	32.363	7.52	113.7	5.3	0.69	2.6	0.12		8.691	25.101	34.007	42.520	1
50	5.907	32.597	6.65	94.4	21.2	1.34	13.4	0.26		5.903	25.666	34.699	43.331	50
101	5.628	33.001	5.24	74.1	34.3	1.78	21.9	0.02		5.620	26.019	35.059	43.699	101
147	5.406	33.619	3.20	45.2	54.0		31.9	0.01		5.394	26.535	35.577	44.218	148
197	4.935	33.827	2.46	34.4	65.2		36.2	0.01		4.920	26.754	35.817	44.477	198
247	4.399	33.867	1.79	24.7	77.4		39.7	0.01		4.381	26.845	35.934	44.619	249
294	4.198	33.924	1.47	20.2	83.0	2.88	41.7	0.01		4.177	26.912	36.010	44.704	296
390	3.904	33.996	0.81	11.0	99.1	3.06	44.0	0.00		3.877	27.000	36.113	44.820	393
495	3.792	34.103	0.58	7.9	109.7	3.08	44.1	0.00		3.757	27.097	36.215	44.926	499
590	3.643	34.179	0.44	6.0	119.6	3.11	44.7	0.00		3.602	27.173	36.297	45.015	595
691	3.394	34.224	0.48	6.5	130.0	3.10	44.7	0.00		3.346	27.233	36.370	45.100	697
787	3.251	34.282	0.41	5.5	137.7	3.11	44.9	0.00		3.197	27.294	36.438	45.174	794
888	3.058	34.329	0.43	5.7	144.3	3.14	44.8	0.00		2.998	27.350	36.503	45.249	897
980	2.946	34.364	0.38	5.1	149.3	3.15	44.9	0.00		2.880	27.388	36.548	45.299	990
1228	2.584	34.443	0.49	6.5	162.1	3.13	45.0	0.00		2.502	27.484	36.663	45.432	1241
1524	2.276	34.509	0.76	10.0	169.9	3.09	44.4	0.00		2.173	27.564	36.760	45.545	1542
1743	2.067	34.556	1.06	13.8	174.2	3.03	43.7	0.00		1.949	27.620	36.827	45.623	1764
1988	1.924	34.586	1.40	18.2	175.7	2.97	43.0	0.00		1.788	27.656	36.872	45.676	2014
2513	1.690	34.634	2.09	27.0	179.6	2.85	41.0	0.00		1.511	27.716	36.945	45.763	2549
2996	1.580	34.656	2.59	33.3	174.6	2.74	39.6	0.00		1.358	27.744	36.983	45.808	3042
3496	1.508	34.673	3.01	38.6	172.9	2.64	38.4	0.00		1.236	27.766	37.011	45.942	3554
3978	1.495	34.681	3.25	41.6	170.4	2.61	37.8	0.00		1.171	27.777	37.026	45.860	4049
4427	1.505	34.685	3.41	43.6	166.8	2.57	37.3	0.00		1.129	27.783	37.034	45.871	4511
5136	1.540	34.691	3.63	46.3	160.0	2.52	36.5	0.00		1.075	27.792	37.046	45.885	5242

MARATHON 2 STA. 92

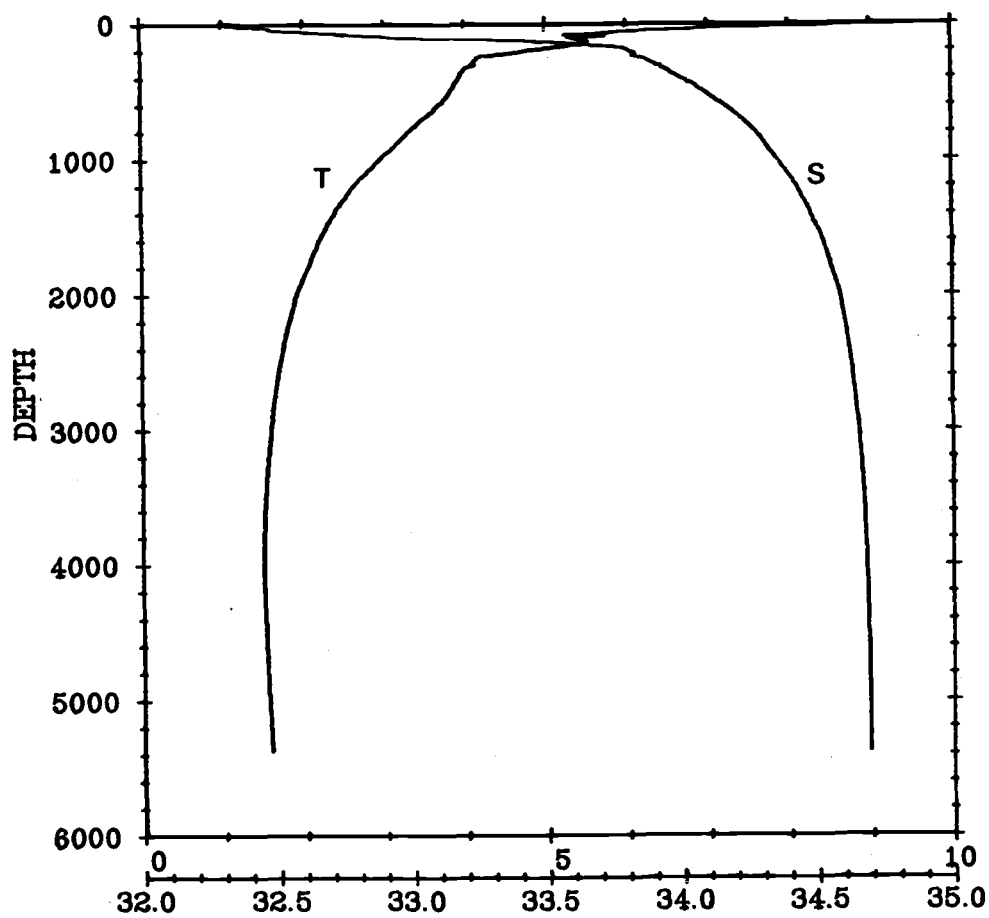
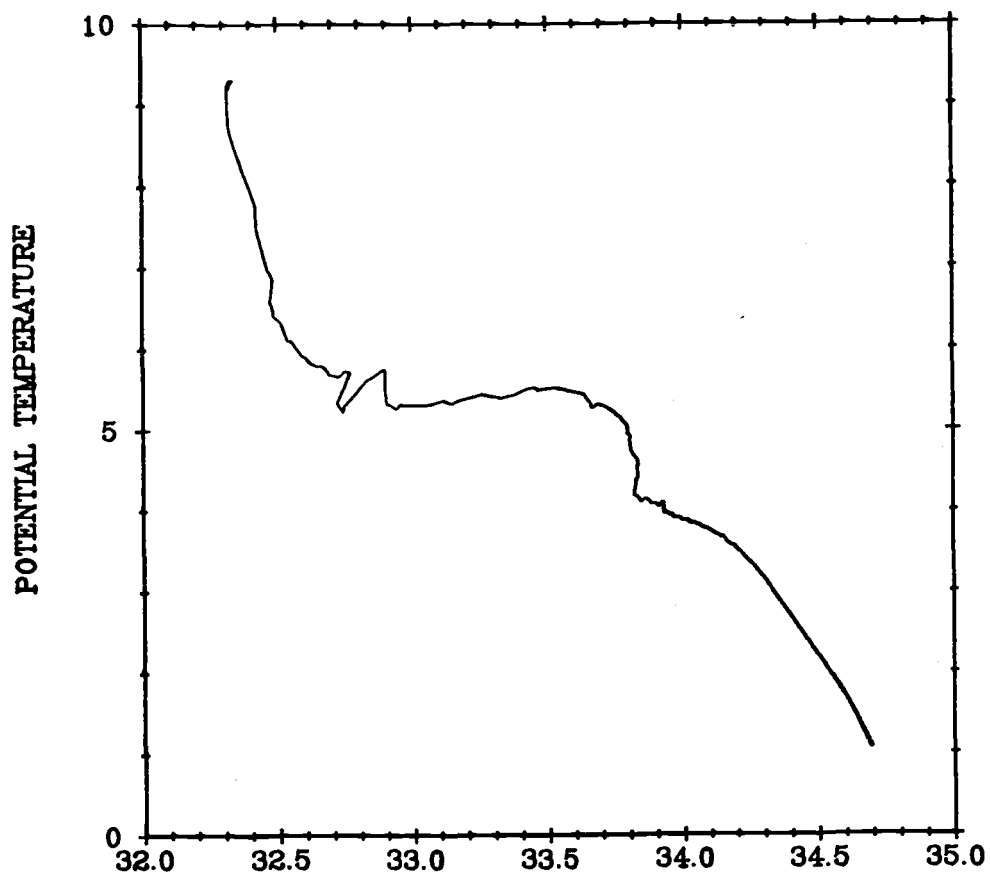


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
55 35.9N	152 46.3W	6/ 2/84	154	5377	130	4	14.4	10.6	1019.3

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	9.123	32.326	9.123	25.006	33.893	42.389	294.197	0.000	0
20	8.013	32.387	8.011	25.221	34.157	42.699	274.066	0.057	19
40	6.676	32.482	6.673	25.479	34.476	43.076	249.730	0.109	39
60	5.892	32.625	5.887	25.690	34.723	43.356	229.819	0.157	59
80	5.526	32.786	5.520	25.861	34.910	43.557	213.751	0.202	79
100	5.405	32.978	5.397	26.027	35.079	43.729	198.179	0.243	99
150	5.425	33.622	5.413	26.535	35.576	44.216	150.649	0.330	148
200	4.779	33.812	4.764	26.760	35.811	44.498	129.566	0.400	198
250	4.162	33.849	4.144	26.856	35.957	44.654	120.758	0.463	247
300	4.095	33.909	4.074	26.911	36.015	44.714	115.980	0.522	297
350	3.976	33.958	3.952	26.962	36.072	44.776	111.478	0.579	347
400	3.922	33.999	3.894	27.001	36.113	44.819	108.247	0.634	396
450	3.875	34.049	3.844	27.046	36.160	44.868	104.412	0.687	446
500	3.822	34.087	3.787	27.082	36.198	44.908	101.407	0.738	495
600	3.680	34.160	3.638	27.154	36.277	44.994	95.217	0.837	594
700	3.494	34.225	3.446	27.225	36.357	45.082	89.121	0.929	693
800	3.305	34.279	3.250	27.286	36.428	45.162	83.773	1.015	792
900	3.137	34.319	3.076	27.335	36.484	45.227	79.655	1.097	890
1000	2.954	34.356	2.887	27.381	36.541	45.292	75.555	1.174	989
1100	2.784	34.394	2.710	27.427	36.595	45.355	71.480	1.248	1088
1200	2.626	34.429	2.546	27.469	36.646	45.413	67.717	1.318	1186
1300	2.506	34.455	2.420	27.501	36.684	45.457	65.000	1.384	1285
1400	2.383	34.481	2.290	27.533	36.722	45.501	62.213	1.448	1383
1500	2.288	34.503	2.189	27.558	36.753	45.537	60.000	1.509	1482
1600	2.196	34.523	2.090	27.582	36.782	45.571	57.937	1.568	1580
1700	2.117	34.540	2.004	27.603	36.807	45.600	56.215	1.625	1679
1800	2.057	34.554	1.936	27.619	36.827	45.624	54.908	1.680	1777
1900	1.981	34.570	1.853	27.639	36.851	45.651	53.243	1.734	1875
2000	1.908	34.585	1.773	27.657	36.873	45.678	51.660	1.787	1974
2100	1.867	34.594	1.724	27.668	36.887	45.693	50.880	1.838	2072
2200	1.823	34.603	1.673	27.679	36.901	45.710	50.046	1.889	2170
2300	1.776	34.613	1.618	27.691	36.916	45.728	49.084	1.938	2268
2400	1.743	34.620	1.576	27.700	36.926	45.741	48.500	1.987	2366
2500	1.712	34.626	1.537	27.707	36.936	45.752	48.001	2.035	2464
2600	1.677	34.633	1.494	27.716	36.947	45.766	47.364	2.083	2562
2700	1.654	34.637	1.462	27.722	36.954	45.774	47.090	2.130	2660
2800	1.626	34.643	1.425	27.729	36.964	45.786	46.593	2.177	2758
2900	1.599	34.648	1.390	27.736	36.972	45.796	46.169	2.223	2856
3000	1.581	34.652	1.362	27.741	36.979	45.804	45.931	2.269	2954
3100	1.564	34.656	1.336	27.746	36.986	45.812	45.699	2.315	3051
3200	1.543	34.660	1.306	27.751	36.993	45.820	45.402	2.361	3149
3300	1.531	34.663	1.284	27.755	36.997	45.826	45.298	2.406	3247
3400	1.516	34.666	1.260	27.759	37.003	45.833	45.143	2.451	3344
3500	1.506	34.669	1.240	27.763	37.008	45.839	45.055	2.496	3442
3600	1.498	34.671	1.222	27.766	37.012	45.844	45.063	2.541	3540
3700	1.491	34.674	1.204	27.770	37.016	45.849	45.011	2.586	3637
3800	1.486	34.676	1.189	27.772	37.020	45.854	45.057	2.631	3735
3900	1.481	34.678	1.173	27.775	37.023	45.858	45.099	2.677	3832
4000	1.480	34.680	1.162	27.777	37.026	45.861	45.201	2.722	3929
4100	1.482	34.681	1.153	27.779	37.028	45.864	45.420	2.767	4027
4200	1.483	34.682	1.142	27.780	37.030	45.866	45.622	2.813	4124
4300	1.485	34.683	1.133	27.782	37.032	45.869	45.839	2.858	4221
4400	1.490	34.684	1.127	27.783	37.034	45.871	46.104	2.904	4318
4500	1.494	34.685	1.119	27.784	37.036	45.873	46.354	2.950	4416
4600	1.499	34.686	1.112	27.786	37.037	45.875	46.619	2.997	4513
4700	1.505	34.686	1.106	27.786	37.038	45.876	46.973	3.044	4610
4800	1.510	34.687	1.099	27.787	37.040	45.878	47.239	3.091	4707
4900	1.516	34.688	1.093	27.788	37.041	45.880	47.523	3.138	4804
5000	1.524	34.688	1.089	27.789	37.042	45.880	47.913	3.186	4901
5100	1.531	34.689	1.083	27.790	37.043	45.882	48.216	3.234	4998
5200	1.540	34.689	1.080	27.790	37.044	45.883	48.625	3.282	5094
5300	1.549	34.690	1.076	27.791	37.045	45.885	48.967	3.331	5191
5400	1.558	34.690	1.072	27.792	37.045	45.885	49.379	3.380	5288
5492	1.568	34.690	1.070	27.792	37.046	45.885	49.792	3.426	5377

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	9.800	32.322	7.73	119.8	2.3	0.55	1.0	0.10		9.800	24.895	33.752	42.220	1
50	6.024	32.531	6.71	95.5	19.8	1.24	12.2	0.32		6.020	25.600	34.627	43.256	50
99	5.584	32.935	5.36	75.6	33.4	1.72	21.3	0.02		5.576	25.972	35.016	43.658	99
146	5.552	33.577	3.38	47.9	51.1	2.24	31.2	0.01		5.540	25.484	35.520	44.155	147
191	4.945	33.798	2.53	35.4	63.8	2.53	36.1	0.01		4.930	26.730	35.792	44.452	192
292	4.182	33.909	1.37	18.8	84.8	2.91	41.9	0.01		4.161	26.902	36.001	44.696	294
392	3.931	34.009	0.75	10.2	99.8	3.06	44.2	0.01		3.903	27.008	36.219	44.825	395
492	3.778	34.102	0.59	8.0	107.6	3.09	44.5	0.01		3.744	27.098	36.216	44.928	496
589	3.631	34.178	0.46	6.2	119.5	3.11	44.7	0.00		3.590	27.173	36.298	45.017	594
691	3.453	34.239	0.39	5.3	128.2	3.13	44.9	0.00		3.405	27.240	36.373	45.100	697
789	3.279	34.286	0.37	5.0	135.7	3.14	45.0	0.00		3.225	27.294	36.437	45.172	796
885	3.110	34.326	0.36	4.8	143.1	3.13	45.1	0.00		3.050	27.343	36.494	45.237	894
985	2.942	34.361	0.39	5.2	149.8	3.15	45.1	0.00		2.875	27.386	36.546	45.298	995
1231	2.572	34.443	0.49	6.5	160.6	3.13	45.0	0.00		2.489	27.485	36.665	45.434	1244
1500	2.272	34.508	0.73	9.6	169.2	3.09	44.5	0.00		2.171	27.564	36.759	45.544	1517
1726	2.084	34.550	1.05	13.7	174.0	3.02	43.8	0.00		1.967	27.614	36.820	45.615	1747
1967	1.924	34.584	1.37	17.8	177.1	2.96	43.0	0.00		1.790	27.655	36.870	45.674	1992
2466	1.719	34.628	2.01	26.0	177.3	2.84	41.4	0.00		1.544	27.708	36.937	45.752	2501
2964	1.584	34.655	2.56	32.9	171.0	2.74	39.6	0.00		1.365	27.743	36.981	45.805	3010
3444	1.505	34.671	2.99	38.3	169.6	2.64	38.5	0.00		1.239	27.765	37.009	45.840	3501
3923	1.488	34.679	3.27	41.8	169.6	2.59	37.8	0.00		1.171	27.776	37.024	45.859	3993
4418	1.494	34.685	3.46	44.2	164.8	2.54	37.0	0.00		1.120	27.784	37.035	45.873	4502
4880	1.523	34.688	3.58	45.7	160.4	2.53	36.7	0.00		1.091	27.788	37.041	45.880	4978
5375	1.568	34.691	3.66	46.7	157.3	2.51	36.4	0.00		1.071	27.792	37.046	45.886	5489

MARATHON 2 STA. 93

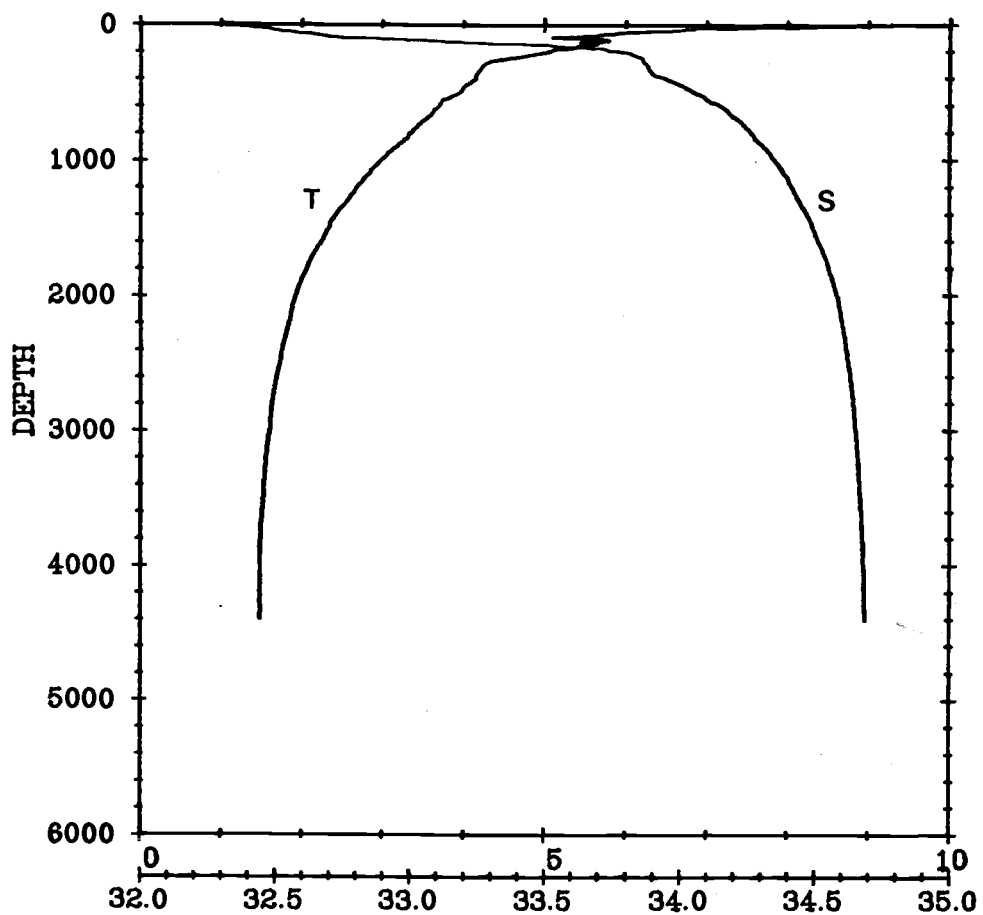
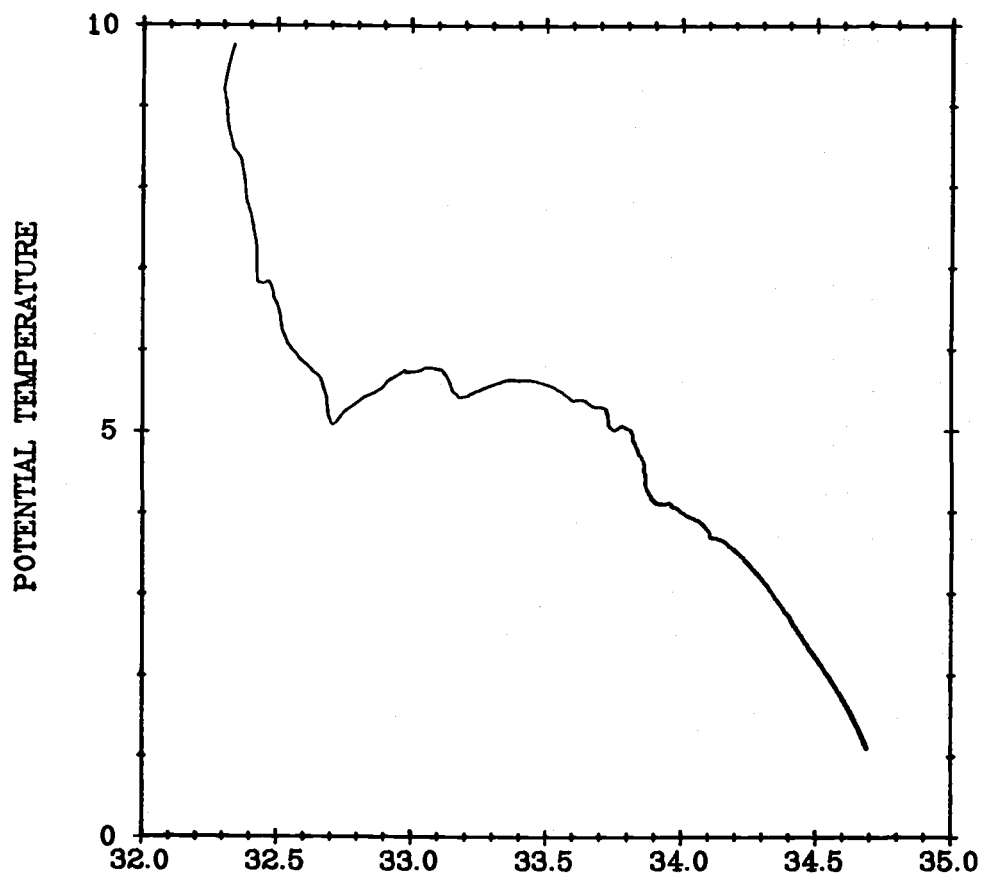


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
55 46.6N	152 53.0W	6/ 2/84	806	4405	140	10	8.9	7.8	1019.0

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	9.251	32.320	9.251	24.981	33.863	42.354	296.555	0.000	0
20	7.844	32.386	7.842	25.244	34.188	42.738	271.829	0.057	19
40	6.619	32.489	6.616	25.492	34.492	43.093	248.500	0.109	39
60	5.970	32.574	5.965	25.641	34.671	43.301	234.554	0.157	59
80	5.510	32.670	5.504	25.771	34.823	43.472	222.277	0.203	79
100	5.386	32.814	5.378	25.900	34.955	43.609	210.273	0.246	99
150	5.572	33.479	5.560	26.405	35.441	44.076	163.063	0.339	148
200	5.056	33.775	5.041	26.700	35.757	44.412	135.517	0.414	198
250	4.592	33.859	4.574	26.818	35.898	44.574	124.582	0.479	248
300	4.242	33.878	4.221	26.871	35.968	44.661	119.851	0.540	297
350	4.177	33.893	4.152	26.890	35.991	44.686	118.466	0.600	347
400	4.142	33.945	4.113	26.935	36.037	44.734	114.624	0.658	396
450	4.029	34.004	3.997	26.994	36.101	44.802	109.417	0.714	446
500	3.952	34.050	3.917	27.039	36.149	44.854	105.562	0.768	495
600	3.701	34.148	3.659	27.143	36.265	44.980	96.338	0.869	594
700	3.538	34.212	3.489	27.210	36.340	45.063	90.563	0.962	693
800	3.360	34.263	3.305	27.268	36.407	45.139	85.558	1.050	792
900	3.190	34.309	3.129	27.322	36.469	45.209	80.973	1.134	890
1000	3.006	34.350	2.938	27.372	36.529	45.277	76.567	1.212	989
1100	2.842	34.386	2.768	27.416	36.581	45.338	72.708	1.287	1088
1200	2.699	34.414	2.619	27.451	36.624	45.388	69.632	1.358	1186
1300	2.580	34.440	2.493	27.483	36.662	45.432	66.931	1.426	1285
1400	2.441	34.469	2.348	27.518	36.705	45.481	63.748	1.492	1384
1500	2.334	34.493	2.234	27.547	36.739	45.521	61.258	1.554	1482
1600	2.256	34.511	2.149	27.568	36.765	45.551	59.508	1.615	1580
1700	2.159	34.533	2.045	27.594	36.796	45.587	57.217	1.673	1679
1800	2.076	34.552	1.955	27.616	36.823	45.618	55.279	1.729	1777
1900	1.997	34.568	1.869	27.636	36.847	45.647	53.580	1.784	1875
2000	1.935	34.581	1.800	27.652	36.867	45.670	52.278	1.837	1974
2100	1.885	34.592	1.742	27.665	36.883	45.689	51.246	1.888	2072
2200	1.847	34.600	1.696	27.675	36.895	45.703	50.562	1.939	2170
2300	1.804	34.609	1.645	27.686	36.909	45.719	49.727	1.989	2268
2400	1.762	34.618	1.595	27.697	36.922	45.735	48.888	2.039	2366
2500	1.730	34.624	1.555	27.704	36.932	45.748	48.380	2.087	2464
2600	1.695	34.631	1.511	27.713	36.943	45.761	47.746	2.135	2562
2700	1.666	34.637	1.474	27.721	36.953	45.772	47.249	2.183	2660
2800	1.634	34.642	1.433	27.728	36.962	45.783	46.773	2.230	2758
2900	1.614	34.647	1.404	27.734	36.970	45.792	46.447	2.277	2856
3000	1.599	34.650	1.380	27.738	36.975	45.799	46.325	2.323	2954
3100	1.580	34.654	1.352	27.743	36.982	45.807	46.068	2.369	3052
3200	1.557	34.659	1.320	27.749	36.990	45.817	45.674	2.415	3149
3300	1.543	34.662	1.296	27.754	36.995	45.823	45.543	2.461	3247
3400	1.531	34.665	1.274	27.757	37.000	45.830	45.434	2.506	3345
3500	1.522	34.668	1.255	27.761	37.005	45.835	45.364	2.551	3442
3600	1.510	34.671	1.233	27.765	37.010	45.842	45.244	2.597	3540
3700	1.499	34.674	1.212	27.769	37.016	45.848	45.133	2.642	3637
3800	1.493	34.676	1.196	27.772	37.019	45.852	45.165	2.687	3735
3900	1.481	34.679	1.173	27.776	37.024	45.859	45.028	2.732	3832
4000	1.481	34.680	1.163	27.777	37.026	45.861	45.217	2.777	3929
4100	1.478	34.682	1.149	27.780	37.030	45.865	45.286	2.823	4027
4200	1.479	34.683	1.139	27.781	37.032	45.868	45.487	2.868	4124
4300	1.480	34.685	1.128	27.784	37.034	45.871	45.616	2.914	4221
4400	1.484	34.685	1.121	27.784	37.035	45.873	45.935	2.959	4318
4484	1.479	34.687	1.106	27.787	37.039	45.877	45.922	2.998	4400

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUBIN	DEG C				DB
1	9.423	32.296	7.76	119.2	1.6	0.47	0.7	0.02		9.423	24.935	33.809	42.293	1
21	8.401	32.342	7.61	114.3	4.4	0.73	2.5	0.08		8.399	25.129	34.048	42.574	21
54	6.230	32.512	6.84	97.8	20.0	1.19	11.3	0.27		6.225	25.559	34.578	43.197	54
100	5.413	32.799	6.32	88.7	29.7	1.56	18.4	0.12		5.405	25.885	34.938	43.591	100
157	5.639	33.425	3.79	53.7	48.2	2.14	29.3	0.01		5.626	26.354	35.387	44.020	158
203	5.095	33.778	2.52	35.3	64.3	2.55	36.4	0.00		5.079	26.698	35.752	44.406	204
252	4.465	33.857	1.85	25.6	77.4	2.81	40.4	0.00		4.447	26.830	35.916	44.598	254
298	4.283	33.873	1.64	22.6	81.9	2.86	41.5	0.00		4.262	26.863	35.958	44.648	300
400	4.129	33.940	1.19	16.3	91.7	2.97	43.4	0.00		4.100	26.933	36.035	44.732	403
499	3.974	34.032	0.81	11.1	103.8	3.10	44.7	0.00		3.938	27.022	36.132	44.835	503
598	3.700	34.142	0.56	7.6	117.8	3.13	45.2	0.00		3.658	27.138	36.260	44.976	603
695	3.564	34.207	0.44	6.0	125.9	3.14	45.6	0.00		3.515	27.204	36.332	45.054	701
792	3.374	34.261	0.40	5.4	134.3	3.18	45.7	0.00		3.319	27.266	36.403	45.134	799
889	3.227	34.299	0.39	5.2	141.2	3.18	45.7	0.00		3.165	27.310	36.456	45.193	898
1001	3.023	34.348	0.37	4.9	147.9	3.19	45.7	0.00		2.954	27.369	36.524	45.272	1011
1244	2.603	34.434	0.52	6.9	163.0	3.16	45.7	0.00		2.519	27.476	36.653	45.422	1257
1497	2.334	34.495	0.69	9.1	171.6	3.12	45.3	0.00		2.233	27.548	36.741	45.523	1514
1737	2.109	34.546	0.99	12.9	177.1	3.07	44.6	0.00		1.991	27.609	36.813	45.607	1758
2013	1.925	34.585	1.38	17.9	179.0	3.01	43.4	0.00		1.787	27.656	36.871	45.675	2039
2515	1.710	34.629	2.04	26.3	180.6	2.88	41.8	0.00		1.531	27.710	36.939	45.755	2551
3009	1.591	34.654	2.55	32.8	178.4	2.77	40.3	0.00		1.367	27.742	36.980	45.804	3055
3437	1.520	34.668	2.95	37.8	175.2	2.69	39.2	0.00		1.254	27.761	37.005	45.835	3494
3920	1.480	34.680	3.27	41.8	170.5	2.63	38.0	0.00		1.163	27.777	37.026	45.861	3989
4394	1.479	34.687	3.48	44.5	166.7	2.57	37.4	0.00		1.108	27.787	37.038	45.876	4477

MARATHON 2 STA. 94

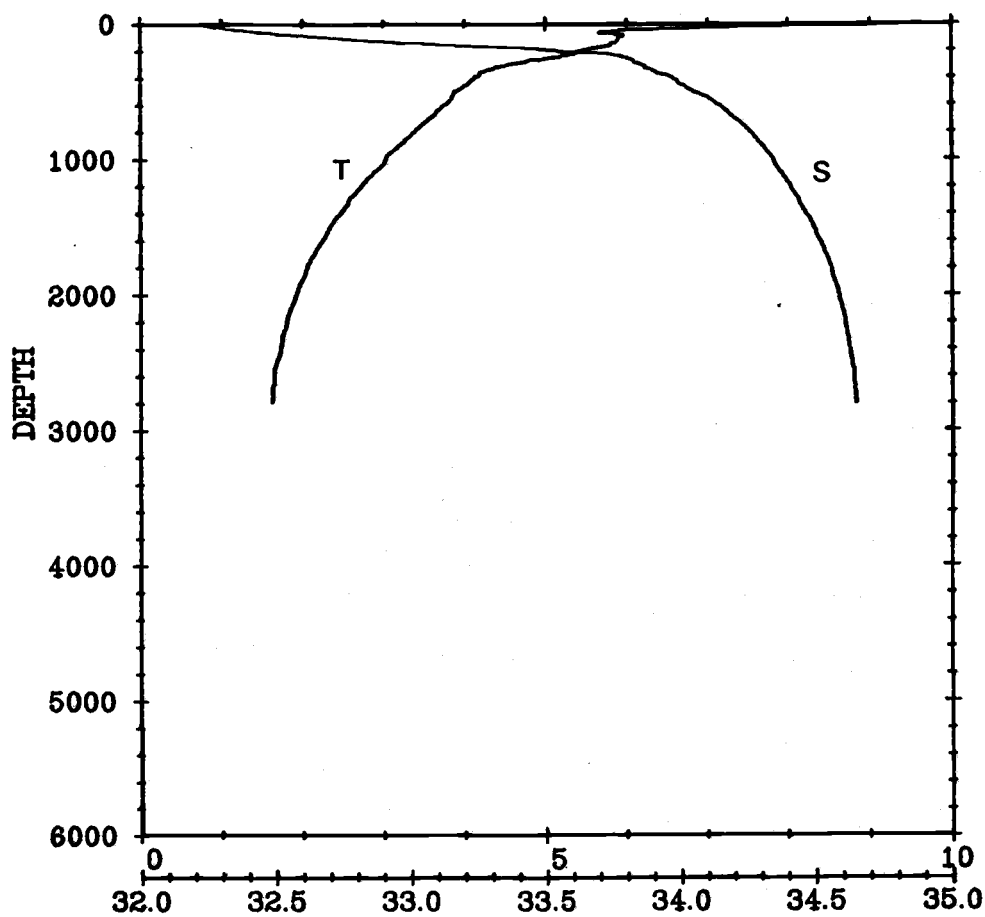
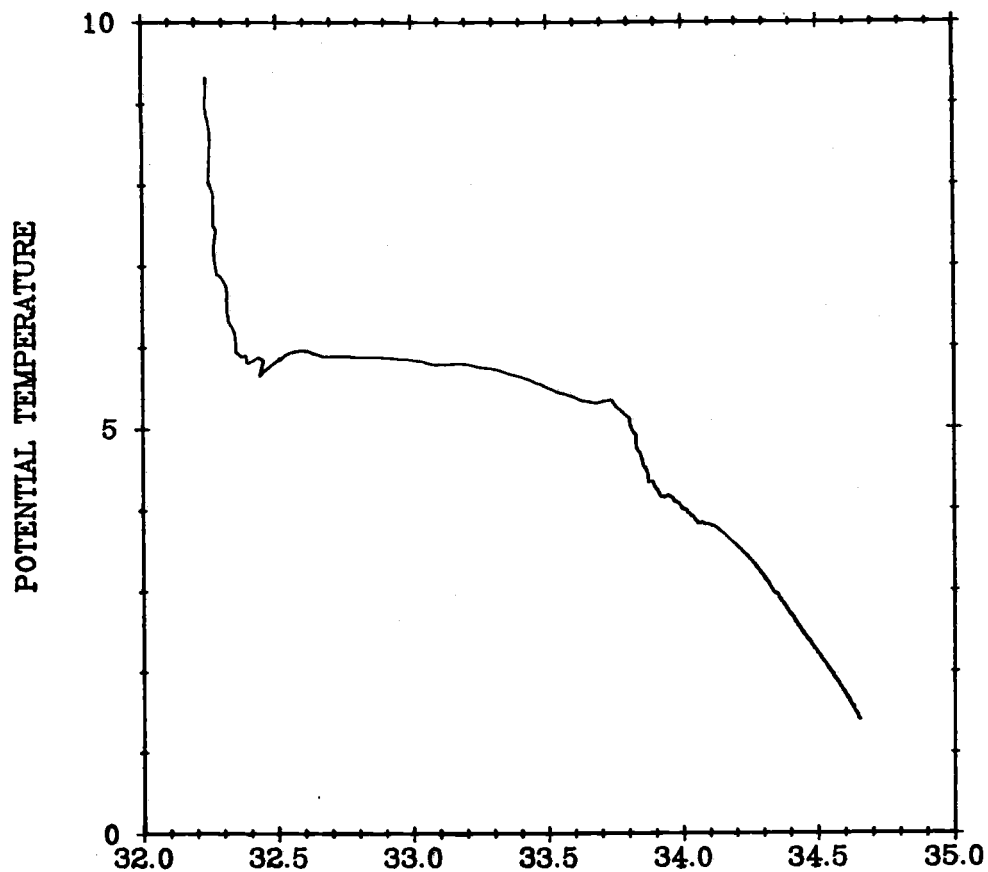


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
55 56.3N	152 57.6W	6/ 2/84	1336	2665	140	8	8.3	7.2	1015.9

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	9.205	32.241	9.205	24.927	33.811	42.305	301.746	0.000	0
20	7.763	32.263	7.761	25.159	34.109	42.663	279.919	0.058	19
40	6.277	32.336	6.274	25.414	34.433	43.053	255.813	0.112	39
60	5.800	32.428	5.795	25.546	34.586	43.226	243.537	0.162	59
80	5.901	32.538	5.895	25.620	34.655	43.288	236.660	0.210	79
100	5.916	32.667	5.908	25.721	34.752	43.384	227.376	0.256	99
150	5.816	33.088	5.804	26.066	35.096	43.726	195.203	0.362	148
200	5.458	33.547	5.442	26.472	35.513	44.153	157.192	0.450	198
250	5.125	33.798	5.106	26.710	35.764	44.416	135.099	0.523	248
300	4.587	33.853	4.565	26.814	35.894	44.571	125.446	0.588	297
350	4.266	33.902	4.241	26.888	35.984	44.675	118.743	0.649	347
400	4.137	33.970	4.108	26.956	36.057	44.754	112.699	0.707	396
450	4.041	34.001	4.009	26.991	36.097	44.798	109.770	0.763	446
500	3.904	34.047	3.869	27.042	36.154	44.861	105.271	0.816	495
600	3.777	34.138	3.735	27.127	36.245	44.958	97.903	0.918	594
700	3.594	34.200	3.545	27.195	36.322	45.043	92.064	1.013	693
800	3.398	34.257	3.343	27.260	36.397	45.127	86.418	1.102	792
900	3.212	34.301	3.150	27.313	36.460	45.198	81.808	1.186	890
1000	3.032	34.344	2.964	27.365	36.520	45.267	77.296	1.266	989
1100	2.902	34.373	2.828	27.400	36.562	45.316	74.331	1.342	1088
1200	2.739	34.407	2.658	27.442	36.613	45.375	70.593	1.414	1186
1300	2.591	34.437	2.504	27.479	36.658	45.427	67.276	1.483	1285
1400	2.487	34.462	2.393	27.509	36.693	45.467	64.783	1.549	1384
1500	2.352	34.492	2.252	27.544	36.736	45.517	61.536	1.612	1482
1600	2.266	34.511	2.159	27.567	36.764	45.549	59.623	1.673	1580
1700	2.159	34.534	2.045	27.595	36.797	45.588	57.143	1.731	1679
1800	2.066	34.554	1.945	27.619	36.826	45.622	55.014	1.787	1777
1900	2.005	34.567	1.877	27.634	36.845	45.645	53.748	1.842	1876
2000	1.929	34.583	1.794	27.654	36.869	45.672	52.059	1.895	1974
2100	1.870	34.595	1.727	27.668	36.887	45.694	50.843	1.946	2072
2200	1.808	34.608	1.658	27.684	36.906	45.716	49.496	1.996	2170
2300	1.768	34.615	1.610	27.693	36.918	45.730	48.838	2.045	2268
2400	1.731	34.623	1.565	27.703	36.930	45.745	48.129	2.094	2366
2500	1.695	34.630	1.520	27.712	36.941	45.758	47.491	2.142	2464
2600	1.647	34.639	1.464	27.723	36.956	45.775	46.536	2.189	2562
2700	1.636	34.642	1.444	27.727	36.961	45.781	46.489	2.235	2660
2800	1.620	34.646	1.420	27.732	36.967	45.789	46.295	2.282	2758
2834	1.619	34.647	1.415	27.733	36.968	45.790	46.314	2.297	2791

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TU81N	DEG C				DB
1	9.054	32.252	7.55	115.0	1.7	0.36	0.0	0.00	4.72	9.054	24.959	33.850	42.350	1
21	8.350	32.249	7.81	117.1	1.2	0.35	0.0	0.00	8.348	8.348	25.063	33.986	42.516	21
50	6.060	32.390	6.51	92.6	20.1	1.26	11.8	0.18	4.69	6.056	25.484	34.512	43.141	50
100	5.910	32.652	6.00	85.2	27.4	1.45	17.0	0.03	4.36	5.902	25.709	34.741	43.373	100
148	5.830	33.028	4.81	68.3	38.7	1.81	23.3	0.02	4.20	5.818	26.017	35.047	43.677	149
197	5.491	33.575	3.31	46.8	53.9	2.24	31.8	0.01	3.80	5.475	26.490	35.529	44.167	198
246	5.036	33.795	2.58	36.1	65.5	2.49	36.4	0.00	3.65	5.017	26.718	35.776	44.432	247
297	4.589	33.848	2.04	28.3	74.4	2.68	38.9	0.00	3.09	4.567	26.810	35.890	44.566	299
399	4.157	33.970	1.12	15.4	93.4	2.94	42.9	0.00	1.91	4.128	26.954	36.054	44.750	402
497	3.943	34.057	0.73	10.0	106.0	3.04	44.3	0.00	1.08	3.908	27.045	36.156	44.861	501
593	3.808	34.127	0.56	7.6	114.1	3.04	44.8	0.00	0.71	3.766	27.115	36.232	44.943	598
699	3.594	34.197	0.44	6.0	124.8	3.08	45.2	0.00	0.36	3.545	27.193	36.320	45.041	705
795	3.417	34.255	0.38	5.1	133.4	3.12	45.3	0.00	0.24	3.361	27.257	36.392	45.121	802
888	3.225	34.301	0.38	5.1	141.3	3.14	45.4	0.00	0.24	3.164	27.312	36.457	45.196	897
1061	2.935	34.365	0.40	5.3	152.7	3.13	45.4	0.00	0.01	2.862	27.391	36.551	45.303	1072
1248	2.657	34.424	0.48	6.4	162.3	3.13	45.4	0.00		2.572	27.463	36.638	45.404	1261
1503	2.349	34.492	0.69	9.1	172.7	3.08	44.8	0.00		2.247	27.545	36.736	45.518	1520
1740	2.108	34.546	1.02	13.3	178.2	3.02	44.1	0.00		1.990	27.609	36.813	45.607	1761
2020	1.914	34.587	1.42	18.4	183.3	2.97	43.1	0.00		1.775	27.658	36.874	45.678	2046
2307	1.748	34.621	1.86	24.0	185.9	2.87	41.7	0.00		1.587	27.699	36.926	45.739	2339
2567	1.648	34.642	2.21	28.5	186.1	2.81	40.9	0.00		1.465	27.725	36.958	45.777	2604
2680	1.630	34.643	2.30	29.6	185.5	2.79	40.6	0.00		1.437	27.728	36.962	45.783	2719
2790	1.619	34.647	2.36	30.4	184.8	2.77	40.4	0.00		1.416	27.733	36.968	45.790	2832

MARATHON 2 STA. 95

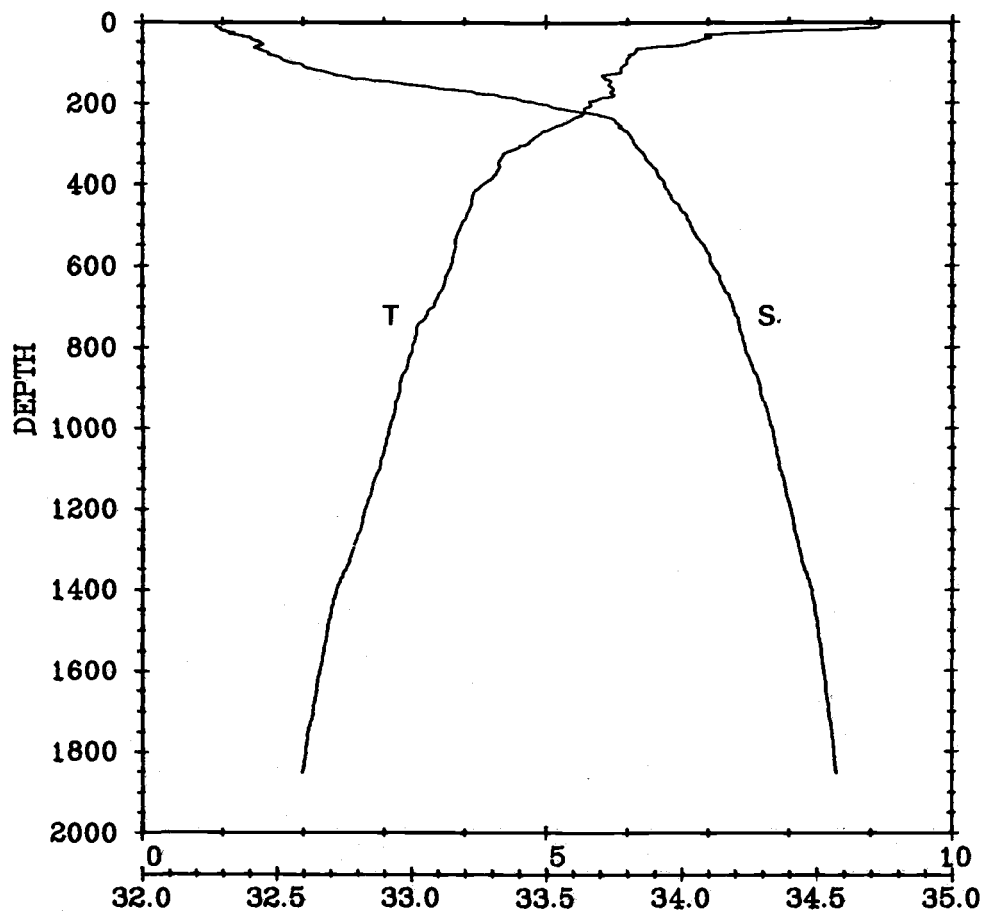
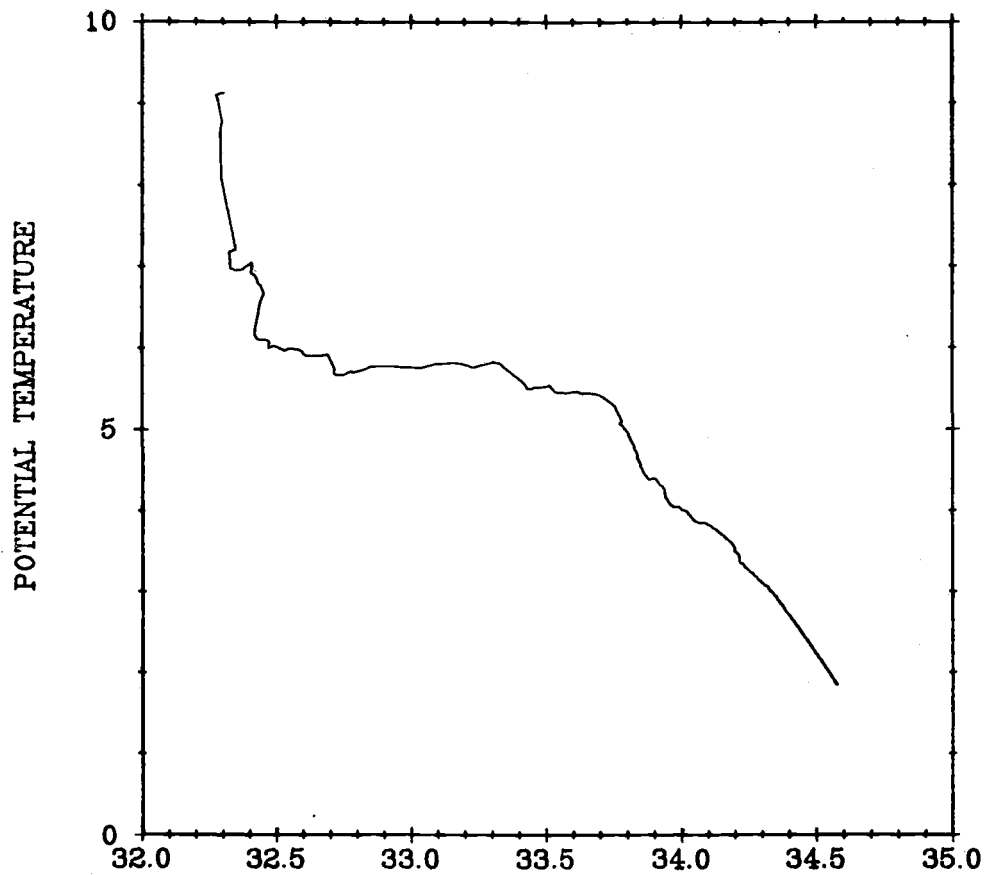


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
56 4.0N	153 2.7W	6/ 2/84	1824	1801	90	16	9.4	8.3	1013.5

CTD DATA									
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	9.086	32.281	9.086	24.977	33.866	42.364	296.998	0.000	0
20	8.138	32.305	8.136	25.138	34.070	42.608	281.913	0.058	19
40	6.941	32.397	6.937	25.377	34.363	42.952	259.415	0.112	39
60	6.421	32.435	6.416	25.475	34.485	43.097	250.352	0.163	59
80	6.050	32.480	6.043	25.557	34.584	43.212	242.756	0.212	79
100	5.980	32.556	5.972	25.625	34.655	43.285	236.448	0.260	99
150	5.775	32.929	5.763	25.945	34.980	43.614	206.626	0.371	148
200	5.562	33.457	5.546	26.389	35.426	44.062	165.143	0.464	198
250	5.240	33.761	5.220	26.668	35.716	44.363	139.190	0.540	248
300	4.770	33.826	4.747	26.773	35.844	44.512	129.494	0.607	297
350	4.421	33.882	4.395	26.856	35.944	44.628	121.919	0.670	347
400	4.254	33.936	4.225	26.917	36.013	44.704	116.505	0.730	396
450	4.077	33.982	4.045	26.972	36.076	44.776	111.578	0.787	446
500	3.965	34.032	3.930	27.023	36.133	44.838	107.047	0.841	495
600	3.835	34.114	3.793	27.102	36.218	44.928	100.323	0.945	594
700	3.621	34.189	3.572	27.184	36.310	45.029	93.176	1.042	693
800	3.357	34.235	3.302	27.247	36.386	45.118	87.610	1.132	792
900	3.189	34.290	3.128	27.307	36.454	45.194	82.375	1.217	890
1000	3.067	34.330	2.999	27.350	36.504	45.250	78.719	1.298	989
1100	2.945	34.362	2.870	27.388	36.548	45.299	75.622	1.375	1088
1200	2.777	34.399	2.696	27.432	36.601	45.361	71.607	1.448	1186
1300	2.629	34.433	2.542	27.473	36.650	45.417	67.995	1.518	1285
1400	2.431	34.475	2.338	27.524	36.711	45.488	63.193	1.584	1383
1500	2.299	34.503	2.199	27.558	36.752	45.535	60.124	1.646	1482
1600	2.216	34.522	2.109	27.580	36.779	45.567	58.240	1.705	1580
1700	2.125	34.541	2.012	27.603	36.807	45.600	56.224	1.762	1679
1800	2.036	34.560	1.916	27.626	36.835	45.632	54.222	1.817	1777
1876	1.975	34.573	1.849	27.641	36.854	45.654	52.856	1.858	1852

NISKIN BOTTLE DATA														
DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
2	9.164	32.276	7.57	115.6	1.0	0.46	0.1	0.00		9.164	24.960	33.846	42.341	2
47	6.628	32.360D	7.23	104.2	11.8	0.97	5.1	0.13		6.624	25.389	34.390	42.993	47
99	5.907	32.508	6.58	93.3	21.4	1.30	13.2	0.21		5.899	25.596	34.630	43.264	99
147	5.797	32.774	5.59	79.2	31.1	1.61	19.5	0.04		5.785	25.820	34.856	43.491	148
195	5.820	33.370	3.79	53.9	47.0	2.10	28.6	0.01		5.804	26.289	35.314	43.940	196
248	5.326	33.735	2.79	39.3	60.0	2.41	34.2	0.00		5.306	26.637	35.681	44.325	249
293	4.788	33.823	2.27	31.6	69.5	2.62	37.5	0.00		4.766	26.769	35.839	44.506	295
390	4.293	33.924	1.39	19.1	87.3	2.89	41.6	0.00		4.265	26.903	35.997	44.687	393
505	3.945	34.043	0.78	10.6	105.1	3.04	43.9	0.00		3.909	27.034	36.145	44.850	509
591	3.836	34.112	0.55	7.5	113.5	3.07	44.4	0.00		3.794	27.101	36.216	44.926	596
701	3.604	34.182	0.44	6.0	124.8	3.11	44.9	0.00		3.555	27.180	36.307	45.027	707
791	3.367	34.240	0.42	5.7	135.3	3.12	45.1	0.00		3.312	27.250	36.388	45.119	798
911	3.183	34.291	0.41	5.5	143.4	3.13	45.2	0.00		3.120	27.308	36.456	45.196	920
1022	3.033	34.342	0.38	5.1	150.1	3.13	45.1	0.00		2.963	27.363	36.519	45.266	1032
1248	2.709	34.415	0.47	6.2	162.6	3.14	45.2	0.00		2.624	27.451	36.624	45.387	1261
1484	2.291	34.504	0.78	10.2	175.9	3.07	44.6	0.00		2.191	27.559	36.753	45.537	1501
1724	2.090	34.549	1.03	13.4	179.8	3.03	43.9	0.00		1.974	27.612	36.818	45.613	1745
1851	1.974	34.572	1.26	16.4	182.1	2.97	43.2	0.00		1.849	27.641	36.853	45.653	1874

MARATHON 2 STA. 96

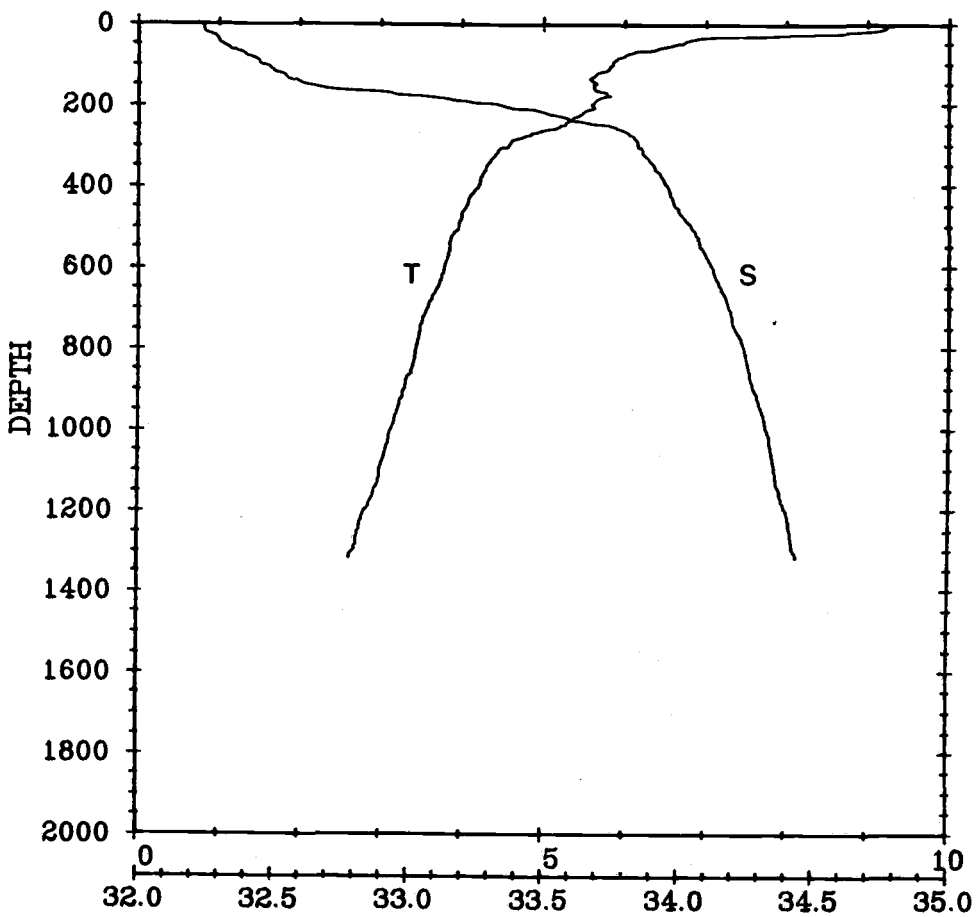
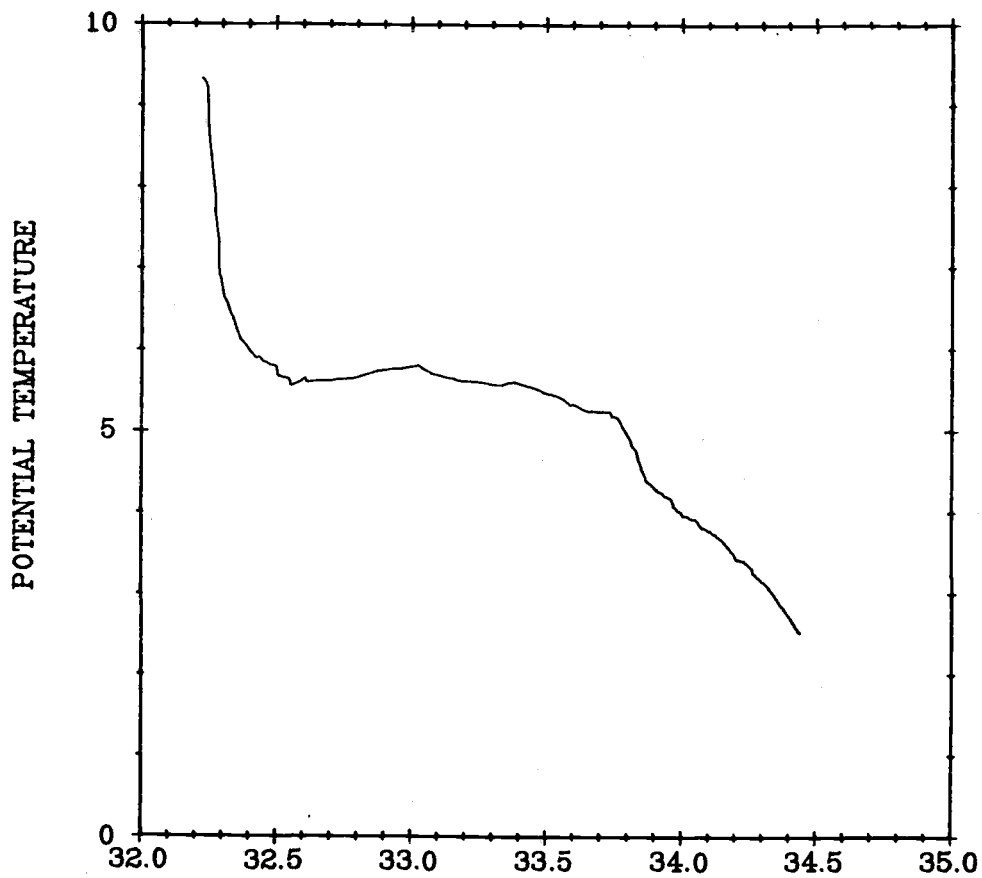


LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
56 12.0N	153 7.7W	6/ 2/84	2242	1340	100	16	11.7	9.4	1012.2

CTD DATA									
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT	DEPTH M
0	9.237	32.239	9.237	24.920	33.803	42.296	302.373	0.000	0
20	8.543	32.255	8.541	25.040	33.954	42.475	291.347	0.059	19
40	6.857	32.297	6.854	25.310	34.301	42.895	265.839	0.115	39
60	6.372	32.340	6.367	25.406	34.420	43.035	256.876	0.167	59
80	5.968	32.409	5.962	25.510	34.543	43.176	247.115	0.218	79
100	5.840	32.461	5.832	25.567	34.606	43.243	241.931	0.267	99
150	5.624	32.625	5.612	25.723	34.770	43.415	227.644	0.384	148
200	5.611	33.307	5.595	26.264	35.302	43.938	175.942	0.485	198
250	5.236	33.708	5.216	26.626	35.675	44.324	143.108	0.565	248
300	4.569	33.851	4.547	26.815	35.896	44.573	125.399	0.632	297
350	4.312	33.905	4.287	26.885	35.979	44.668	119.015	0.693	347
400	4.205	33.954	4.176	26.936	36.034	44.728	114.629	0.752	396
450	4.057	33.987	4.025	26.978	36.083	44.784	110.989	0.808	446
500	3.961	34.042	3.926	27.032	36.142	44.846	106.257	0.863	495
600	3.781	34.119	3.739	27.112	36.230	44.942	99.364	0.965	594
700	3.581	34.183	3.532	27.183	36.311	45.033	93.190	1.062	693
800	3.438	34.239	3.383	27.242	36.377	45.105	88.193	1.152	792
900	3.293	34.274	3.231	27.284	36.427	45.162	84.701	1.239	890
1000	3.138	34.323	3.069	27.338	36.489	45.231	80.020	1.321	989
1100	2.993	34.355	2.918	27.378	36.536	45.285	76.674	1.400	1088
1200	2.838	34.390	2.756	27.420	36.586	45.343	72.954	1.474	1186
1300	2.681	34.422	2.593	27.460	36.634	45.399	69.393	1.545	1285
1332	2.608	34.438	2.518	27.479	36.657	45.425	67.563	1.567	1317

NISKIN BOTTLE DATA														
DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	TRIT TUSIN	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
3	9.260	32.250	7.49	114.6	1.2	0.43	0.1	0.00		9.260	24.925	33.807	42.298	3
8	9.256	32.247	7.51	114.9	0.9	0.43	0.0	0.00		9.255	24.923	33.806	42.297	8
47	6.793	32.301	7.32	105.9	9.5	0.84	2.2	0.07		6.789	25.321	34.315	42.912	47
146	5.479	32.609	6.52	91.6	23.4	1.40	15.6	0.12		5.468	25.727	34.781	43.434	147
196	5.697	33.217	4.25	60.2	43.9	2.00	26.3	0.02		5.681	26.183	35.217	43.850	197
296	4.640	33.844	2.03	28.2	73.4	2.70	38.6	0.01		4.618	26.801	35.879	44.553	298
393	4.212	33.958	1.18	16.2	90.6	2.94	42.3	0.00		4.184	26.938	36.036	44.729	396
493	3.965	34.037	0.80	10.9	102.3	3.04	43.6	0.00		3.930	27.027	36.137	44.841	497
588	3.803	34.108	0.58	7.9	113.7	3.10	44.2	0.00		3.761	27.101	36.218	44.929	593
689	3.625	34.180	0.45	6.1	122.6	3.12	44.6	0.00		3.576	27.176	36.302	45.021	695
788	3.416	34.237	0.43	5.8	132.1	3.13	44.8	0.00		3.361	27.242	36.378	45.107	795
891	3.276	34.279	0.40	5.4	136.3	3.15	44.8	0.00		3.214	27.290	36.433	45.169	900
975	3.142	34.321	0.38	5.1	140.3	3.15	44.8	0.00		3.074	27.336	36.486	45.228	985
1213	2.771	34.402	0.45	6.0	156.3	3.15	44.9	0.00		2.688	27.436	36.604	45.365	1226
1315	2.605	34.438	0.51	6.7	161.9	3.14	44.9	0.00		2.516	27.479	36.657	45.426	1329

MARATHON 2 STA. 97



R/V THOMAS WASHINGTON MARATHON LEG II STATION 98

LATITUDE	LONGITUDE	MO/DY/YR	START TIME	BOTTOM	WIND	SPEED	AIR TEMP	WET BULB	BAROM
			GMT	M	DIR	KT	DEG C	DEG C	MB
56 18.0N	153 12.4W	6/ 3/84	218	303	100	16	9.4	8.9	1010.5

CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	DEPTH
DB	DEG C		DEG C				CL/TON		M
0	8.295	32.220	8.295	25.049	33.974	42.506	290.149	0.000	0
20	7.352	32.231	7.350	25.191	34.160	42.733	276.861	0.057	19
40	6.884	32.240	6.881	25.261	34.252	42.846	270.445	0.111	39
60	6.443	32.249	6.438	25.325	34.337	42.951	264.554	0.165	59
80	6.068	32.270	6.061	25.389	34.419	43.049	258.712	0.217	79
100	5.681	32.289	5.673	25.450	34.499	43.147	253.003	0.268	99
150	5.653	32.372	5.651	25.518	34.567	43.214	247.056	0.393	148
200	5.701	32.954	5.685	25.982	35.020	43.657	203.667	0.506	198
250	4.854	33.795	4.835	26.731	35.798	44.463	133.010	0.590	248
286	4.589	33.846	4.568	26.809	35.888	44.565	125.861	0.637	283

NISKIN BOTTLE DATA

DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	TRIT	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	TUSIN	DEG C				DB
1	9.334	32.243	7.68	117.7	1.4	0.43	0.1	0.01		9.334	24.908	33.787	42.275	1
17	7.465	32.237	7.85	115.3	6.9	0.65	2.1	0.07		7.463	25.190	34.144	42.712	17
45	6.779	32.245	7.45	107.7	11.8	0.89	4.5	0.12		6.775	25.279	34.275	42.873	45
87	5.649	32.278	6.84	96.3	22.4	1.26	10.0	0.22		5.642	25.445	34.496	43.144	87
140	5.681	32.382	6.58	92.7	23.8	1.35	12.7	0.22		5.670	25.524	34.571	43.213	141
203	5.674	33.237	4.17	59.1	44.4	2.04	26.8	0.03		5.657	26.201	35.236	43.870	204
254	4.813	33.808	2.31	32.2	69.6	2.63	37.0	0.02		4.794	26.753	35.822	44.489	255
281	4.594	33.849	2.03	28.1	75.4	2.72	38.5	0.02		4.573	26.810	35.890	44.566	283

MARATHON 2 STA. 98

