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**SCRIPPS INSTITUTION OF OCEANOGRAPHY
THE UNIVERSITY OF CALIFORNIA AT SAN DIEGO**

SAGA II

Physical, Chemical, and CTD Data

Akademik Korolev

1 May 1987 - 9 June 1987

**L. Talley
N. Collins
Oceanographic Data Facility**

S.I.O. Reference 88-10

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Principal Investigators:

**Lynne D. Talley
Scripps Institution of Oceanography**

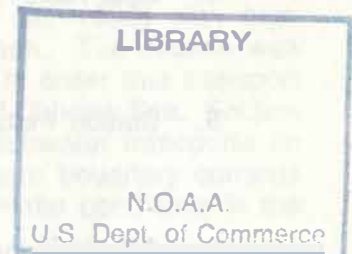
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S.I.O Reference 88-10

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Approved for Distribution:


Edward A. Frieman, Director

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1. INTRODUCTION

In May and June 1987, two sets of CTD/hydrographic stations in the western Pacific were occupied by the Akademik Korolev SAGA II expedition under the aegis of a joint U.S.S.R.—U.S. bilateral agreement. The major purpose of this expedition, headed by Drs. Valentin Koropalov and Richard Gammon of the Institute of Applied Geophysics in Moscow and NOAA/PMEL in Seattle, Washington, respectively, was to study the distribution of atmospheric gases and aerosols and of oceanic chlorofluorocarbons. The opportunity to carry out CTD/hydrographic work arose as a result of the latter study. The U.S. component of the hydrographic work, which is reported herein, was funded by the National Science Foundation and the NOAA/TOGA project office; all shipboard work was carried out by engineers and technicians from the Oceanographic Data Facility at Scripps Institution of Oceanography and Dr. Stephen Riser, with help from Russian scientists and technicians aboard the A. Korolev.

The CTD/hydrographic work consisted of three parts: 3 test stations, 23 closely-spaced, deep stations in the northwest Pacific across the Kuril-Kamchatka Trench, and 37 shallow stations along 160°E and 170°E between 40°N and 28°S.

The purpose of the northwest Pacific section was to complete an earlier transpacific section (TPS47) at approximately 47°N (Talley, *et al.*, 1988) with high quality, closely-spaced stations to the ocean bottom across the Trench. The section was purposely positioned as far north along the Kuril Islands as possible in order that transport estimates not be complicated by exchange between the North Pacific and Okhotsk Sea. Section data are being used in direct estimates of North Pacific heat and freshwater transports (in conjunction with the TPS47 results), in a study of western and northern boundary currents in the North Pacific, and as a source of information concerning late-winter conditions in the northwest Pacific.

The meridional transect along 160°E and 170°E was intended to be part of the ongoing TOGA hydrographic survey along this meridian. Extensive chlorofluorocarbon sampling along this section and a desire for close station spacing at the equator determined the station and bottle spacing.

2. DISCRETE DATA

2.1. Data Summary

Discrete samples were collected on 68 casts at 60 stations. Twenty-five casts were made to the ocean bottom, including one station at the equator (station 42), and 23 stations in the northwest Pacific; 2 deep casts were made at station 22 due to wire problems. Shallow casts were made at 6 of the northwest Pacific stations with 2 shallow casts at station 18. All casts along the "160°E" section were shallow with the exception of the equatorial station. A 24-place ODF rosette sampler with 2.2 liter Niskin-type bottles was used for all deep casts with more than 12 bottles. On shallow casts, 12 five-liter Niskin bottles were used in order to include chlorofluoromethane sampling.

Salinity samples were drawn from every bottle at every station. Oxygen and nutrients were sampled at all stations on the northwest Pacific section and at 26 of the 37 stations along the 160°E section.

2.2. Temperature and Salinity

Pressure and temperature for the discrete hydrographic tabulations were taken from the calibrated CTD data; calibrations are discussed in the following section. Reversing thermometers were mounted on 4 to 5 Niskin bottles on each cast to back up the laboratory CTD temperature calibration.

Salinity samples were analyzed at sea using one of two Guildline Autosal inductive salinometers. All salinities were calculated from conductivity using the 1978 practical salinity scale (UNESCO, 1981) and are tabulated to three decimal places. Wormley standard seawater batch P103 was used for calibration at the beginning and end of each station's analyses; hydrographic and CTD salinities are reported herein relative to P103 and have not been adjusted further.

Mantyla (1987) reports differences in salinities from one batch of standard seawater to another; batch P103 has not yet been included in his ongoing analyses. However, salinities from the deep portions of *Korolev* stations 20 and 21 can be compared with salinities at nearby deep stations made in 1985 (TPS47 stations 35 and 36; Talley *et al.*, 1988) which were calibrated with standard seawater batch P96; the *Korolev* salinities (batch P103) are approximately 0.002‰ higher than the TPS47 salinities (batch P96).

Bottle salinities were compared with CTD salinities to identify leaking bottles or salinometer malfunctions. Calibrated CTD salinities replace bottle salinities in the event of problems and are indicated by the letter "D" in this data report. CTD values were used at one or more levels on 22 stations including 5 stations at which CTD values only are reported.

2.3. Oxygen and Nutrients

Dissolved oxygen content was determined by the Winkler method as modified by Carpenter (1965), using the equipment and procedures outlined by Anderson (1971). Oxygen measurements are given in ml STP per liter of water at 1 atmosphere and at the potential temperature of the sample. A small number of oxygen outliers was discarded. The precision of the oxygen measurements within a single cast is 0.01 ml/l and the accuracy is 1%.

Silicate, phosphate, nitrate, and nitrite were analyzed using a Technicon autoanalyzer. The procedures are similar to those described in Atlas *et al.* (1971). Nutrient measurements are reported here in micromoles/liter at 1 atmosphere and 25°C, which is assumed to be the laboratory temperature. The precision of nutrient measurements (within a single cast) is better than 0.5% and the station-to-station, cruise-to-cruise accuracy is 2% to 3%.

3. CTD DATA

3.1. Processing Summary

Seventy-one CTD casts were completed using a rosette sampling system equipped with ODF CTD #1 (a modified NBIS Mark III), which was employed exclusively for all CTD casts. The CTD used on this expedition sampled *in situ* pressure, temperature, conductivity, and dissolved oxygen at a rate of 25 Hz. The CTD data were initially processed into a filtered, one-second average time-series during the data acquisition. The pressure and platinum resistance thermometer (PRT) temperature channels were corrected using laboratory calibration data applied in a model consistent with known sensor characteristics. The conductivity channel was calibrated to salinity check samples acquired on most casts.

The CTD time-series data were then pressure-sequenced into two-decibar pressure intervals.

3.2. CTD Laboratory Calibrations

3.2.1. Pressure Transducer Calibration

The CTD pressure transducer was calibrated pre- and post-cruise in a temperature-controlled bath to the ODF Ruska Model 2400 deadweight-tester pressure standard (accuracy 0.01%). Thermal and mechanical hysteresis and thermal response-time were observed as a routine part of pressure calibration. Pressure transducer error was measured by increasing the pressure in a series of steps from 0 psi to a maximum pressure, then decreasing by the same steps back to 0 psi. There were at least two pressure calibrations both pre- and post-cruise: full-scale to 8830 psi at nominally 0—1°C, and to 2030 psi at nominally 20—25°C. The transducer thermal response-time was derived from the pressure response to a thermal step-change from 23 to 0°C.

3.2.2. PRT Temperature Calibration

The CTD PRT temperature transducer was calibrated pre- and post-cruise in a high-precision temperature bath to a Rosemount standard platinum resistance thermometer. The resistance of the platinum standard was measured by an NBIS model ATB-1250 automatic resistance bridge. The transfer standard (the PRT-bridge system) is checked frequently at low temperature against the triple point of water, employing at least two different triple point cells. Transfer standard results are also compared to the triple point of diphenyl ether ($26.8685 \pm .002^\circ\text{C}$) to provide a check at warmer temperatures. The CTD temperature error was observed at approximately 1, 6, 15, 21, and 27°C.

3.3. CTD Data Processing

3.3.1. CTD Data Acquisition

Seven channels (pressure, temperature, conductivity, dissolved oxygen, elapsed time, altimeter, and CTD power-supply voltage) were acquired at a data rate of 25 Hz. The FSK CTD signal was demodulated by a NBIS Mark III deck unit and output over an RS-232 port at 9600 baud to a computer system assembled by ODF personnel (SB-180). The system CPU is an 8-bit Hitachi HD-64180 running at 6 mHz.

Data acquisition consisted of generating a filtered one-second time-series and storing this data on hard disk, then later on 3.5 inch floppy disks. Data calculated from this time series were reported and plotted during the cast. A ten-second average of the time-series data was calculated for each water sample collected during the data acquisition.

To generate the one-second time-series, the raw CTD data were initially subjected to absolute value and gradient filters to remove spurious points. The raw conductivity and pressure data were then passed through an exponential low-pass filter with time constant of 300 milliseconds to match the time response of the PRT. Pressure, temperature, and the lagged conductivity were then passed through a second, similar filter with a time constant of one second. The data were decimated to a 1 Hz rate and stored on disk for further processing. On shore, the stored data were transferred to an Integrated Solutions, Inc. (ISI) Optimum V computer system, where the bulk of the processing was performed, including re-applying laboratory pressure and temperature calibration data.

3.3.2. Additional Processing

The 0.322 inch (approximately 8 mm) diameter conducting wire used for this work could not be properly wound on the CTD winch provided by the *Akademik Korolev*, as that winch was set up for 10 mm wire. It was a foregone conclusion that the conducting wire would eventually experience electrical failure. Fortunately, the deep work was essentially complete when the failure occurred. However, damage to the wire prior to failure produced small (typically 0.003—0.005 psu) spikes in the salinity trace from noisy conductivity and temperature data on some of the deeper casts. This noise was low amplitude and thus not rejected by the real-time filter algorithms. A spike filter was employed to remove most of this large temperature and conductivity noise from the time-series data. The down-trace (or up-trace, where appropriate) portion of each time-series was then pressure-sequenced into two-decibar pressure intervals, at which time a "ship-roll" filter was also applied to disallow pressure reversals. Deep potential temperature-salinity relationships were examined for consistency and to determine calibration problems.

3.3.3. CTD Dissolved Oxygen Data

The dissolved oxygen channel was not processed beyond averaging the raw oxygen current. Adequate numbers of high-quality check samples were collected to make calibration feasible, but processing must await additional software development and availability of funds.

3.4. Pressure, Temperature, and Conductivity Corrections

A maximum of 24 salinity check samples were collected on each cast. One or two racks of deep-sea reversing thermometers (DSRT's) were also used on each cast to provide additional information in the event of a shift in PRT calibration. As post-cruise temperature calibration of the CTD showed less than a 0.5 millidegree change from pre-cruise data, these DSRT data were not processed or used. A ten-second average of the CTD time-series at bottle-trip time was calculated for each sample. The resulting data were then used to provide basic *in situ* temperature and pressure data for the sampled levels, and in combination with the bottle salts, to derive CTD conductivity calibrations.

3.4.1. CTD Pressure Corrections

The pre- and post-cruise pressure calibrations were compared and showed no significant differences. As there were more points measured during the post-cruise calibration, these corrections were applied to the CTD data. The shipboard-processed pressures, corrected by the same pressure response model in a somewhat different mathematical form and using the pre-cruise calibration data, differ from the revised calibrated pressures by less than one decibar.

3.4.2. CTD Temperature Corrections

As there were no significant differences nor any apparent drift, the pre- and post-cruise temperature calibration data were averaged by fitting the combined sets to a second-order polynomial. Actual calibration points differ from the smooth curve typically by 0.0003°. The polynomial was then used to correct all temperatures. The precision of the CTD temperatures is estimated to be $\pm 0.001^{\circ}\text{C}$.

3.4.2. CTD Conductivity Corrections

Check sample conductivities were calculated from the sample salinities and from the corrected CTD pressures and temperatures. The differences between sample and CTD conductivities were fit to CTD conductivity using a linear least-squares fit. Values greater than two standard deviations from the fit were rejected. No conductivity slope correction was required.

CTD conductivity offsets were calculated for each cast based on the bottle minus CTD differences. The offsets were manually adjusted after carefully evaluating bottle salinity analytical problems (where laboratory temperature changes, poor standardization, or other problems made the CTD-bottle comparisons suspect), and employing deep T-S relationships as an additional guide. Conductivity offset corrections for shallow casts were determined from adjacent deep casts, or, if there was no deep cast, from the conductivity differences averaged over several stations.

3.5. **General Comments**

There were 71 CTD rosette casts of which 3 were test stations and not processed. At least one pressure-sequenced CTD data set exists for each CTD station, and there is also a second set for each station that had both shallow and deep casts. Three casts are available for Station 18, on which two shallow casts were taken. Only primary casts are included in this report.

ODF normally reports CTD data taken while lowering the CTD in order to produce the most synoptic view of the water column. However, if the quality of data taken during the recovery is significantly better, then that data is reported. In this data set, a total of fourteen up-casts are reported instead of down-casts: 1-1, 2-1, 5-1, 5-2, 6-1, 7-1, 12-1, 12-2, 13-1, 14-1, 19-1, 28-1, 35-1, and 38-1, where the first number is the station and the second is the cast.

Multi-level gaps are usually a result of audio tape changes. Gaps at more than two adjacent levels occurred at stations 1-1, 2-1, 5-2, 6-1, 12-1, 18-1, 19-1, 22-1, and 22-2. Due to a bug in the real-time processing software for the SB-180, extraneous data points may have been introduced into some of these gaps. Intermittent single-level gaps in the data are due to removing ship roll effects, varying CTD velocity through the water column, and/or pressure sequencing of time-averaged data.

Non-bottle-trip stops and/or yoyos occurred on a few casts. The effect after pressure-sequencing is a possible discontinuity in the pressure-series data. Yoyos larger than 10 dbar or known pauses in the cast occurred at stations 12-1, 13-1, 55-1, 56-1, and 60-1.

The 0.322 conducting wire failed during station 22 following the bulk of the deep stations on the northwest Pacific section. Station 23 therefore did not extend to the ocean bottom. The single deep cast along the 160°E section, at the equator (station 42) was affected by wire problems; CTD data at pressures higher than 2192 dbar were discarded.

4. **DATA TABLES**

CTD and bottle data are listed together for each station. CTD data are reported at selected standard intervals chosen from the processed 2 dbar pressure series and smoothed over 20 dbar using a Gaussian filter. At stations with multiple CTD casts, only the first is

reported. Salinity was calculated as described above. Potential temperature referenced to 0 dbar and potential densities referenced to 0, 2000 and 4000 dbar are listed, as is specific volume anomaly (SVA) and sound velocity. The 1980 equation of state was used (UNESCO, 1981). Dynamic height in dynamic meters was calculated by integrating from the sea surface. If there was a missing temperature and/or salinity at the sea-surface, values at the surface were linearly extrapolated from those below. Brunt-Vaisala frequency, N , was calculated from the slope of a least squares fit of a straight line to specific volume anomaly over 60 dbar centered at the desired pressure; Gaussian weighting was used in the fit. Because of the large interval over which N^2 was computed, no values were calculated at pressures less than 30 dbar. The large interval was necessary to reduce noise in the calculation; nevertheless, occasional negative N^2 values were obtained in the deep water. Negative values have been replaced by blanks in this report. Negative values occurred primarily when the absolute value of N^2 was less than 0.005 (cph)^2 , corresponding to expected uncertainties in density of order 10^{-7} over 60 dbar.

Discrete data are reported at all observed depths and from all casts. Oxygen is reported in ml STP per liter at the potential temperature of the sample and nutrients are reported in micromoles per liter at 25°C. Potential temperature and potential density were calculated as for CTD data.

5. STATION PLOTS

Potential temperature versus salinity and temperature/salinity versus pressure are plotted from the 2 dbar CTD series for all stations.

6. ACKNOWLEDGEMENTS

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7. REFERENCES

- Anderson, G.C., compiler, 1971. "Oxygen Analysis." *Marine Technician's Handbook*, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.
- Atlas, E.L., J.C. Callaway, R.D. Tomlinson, L.I. Gordon, L. Barstow, and P.K. Park, 1971. A Practical Manual for Use of the Technicon® Autoanalyzer® Nutrient Analysis; Revised. Oregon State University Technical Report 215, Reference No. 71-22.
- Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10: 141-143.
- Mantyla, A.W., 1987. Standard seawater comparisons updated. *J. Phys. Oceanogr.*, 17, 543-548.

Saunders, P.M., 1981. Practical conversion of pressure to depth. *J. Phys. Oceanogr.*, 11, 573-574.

Talley, L.D., M. Martin, P. Salameh, and Oceanographic Data Facility, 1988. Transpacific section in the subpolar gyre: Physical, chemical, and CTD data. S.I.O. Reference 88—9, Scripps Institution of Oceanography.

UNESCO, 1981. Background papers and supporting data on the International Equation of State 1980. UNESCO Tech. Pap. in *Mar. Sci.*, No. 38.

PERSONNEL

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Gammon, Richard	<u>U.S. Chief Scientist, NOAA/PMEL</u>

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Riser, Stephen	Assistant Professor, University of Washington
Williams, Robert	Principal ADP Systems Analyst, Scripps Institution of Oceanography
Chercasov, Yuris	Scientist, Institute of Applied Geophysics
Gis', Stepan	Head, Hydrological Group
Gurko, Alexander	Head, Electronic Group
Pozdeyev, Victor	Scientist, Institute of Applied Geophysics
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and other members of the hydrological and hydrochemical groups

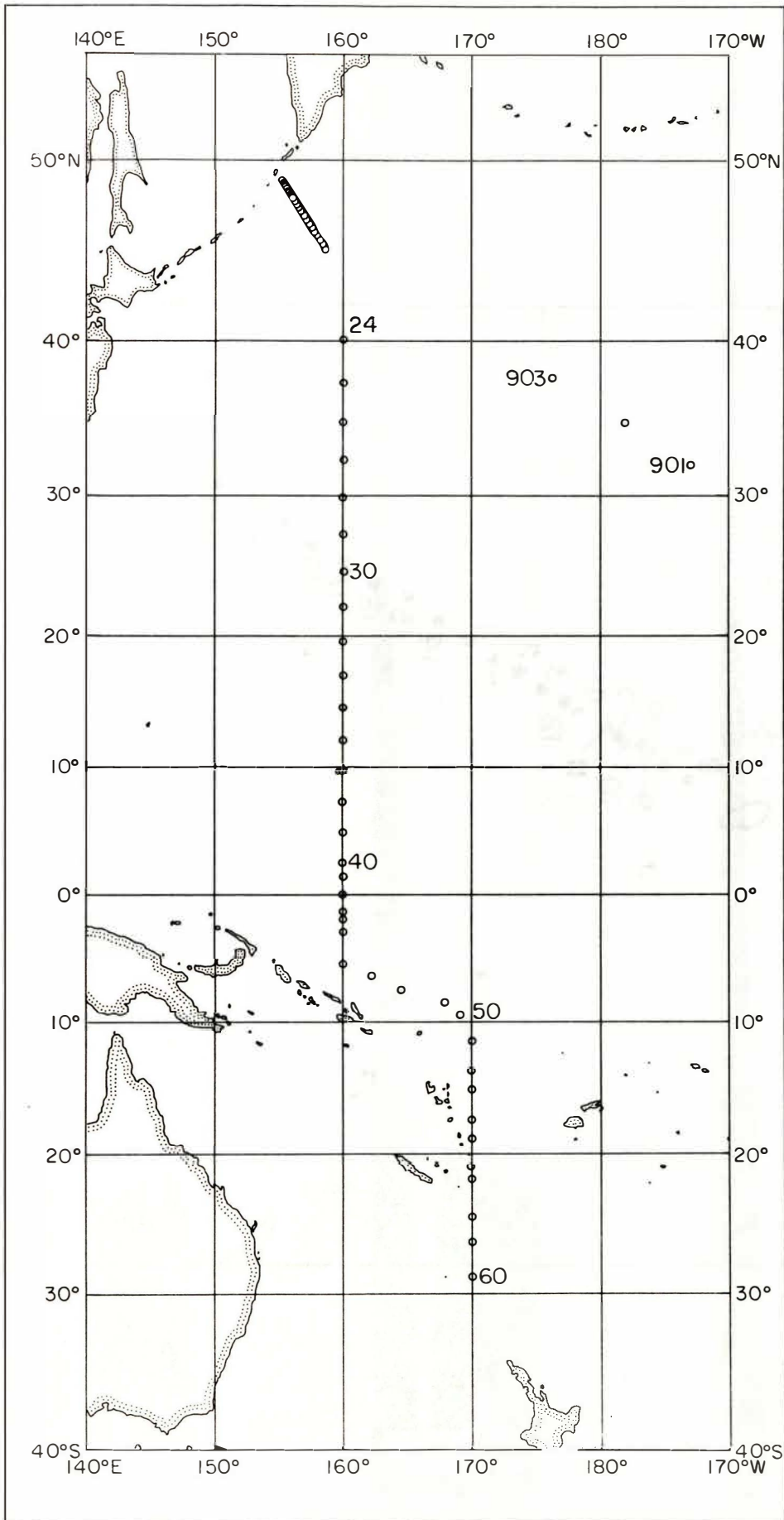
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 CTD/hydrographic stations
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 Scripps Institution of Oceanography

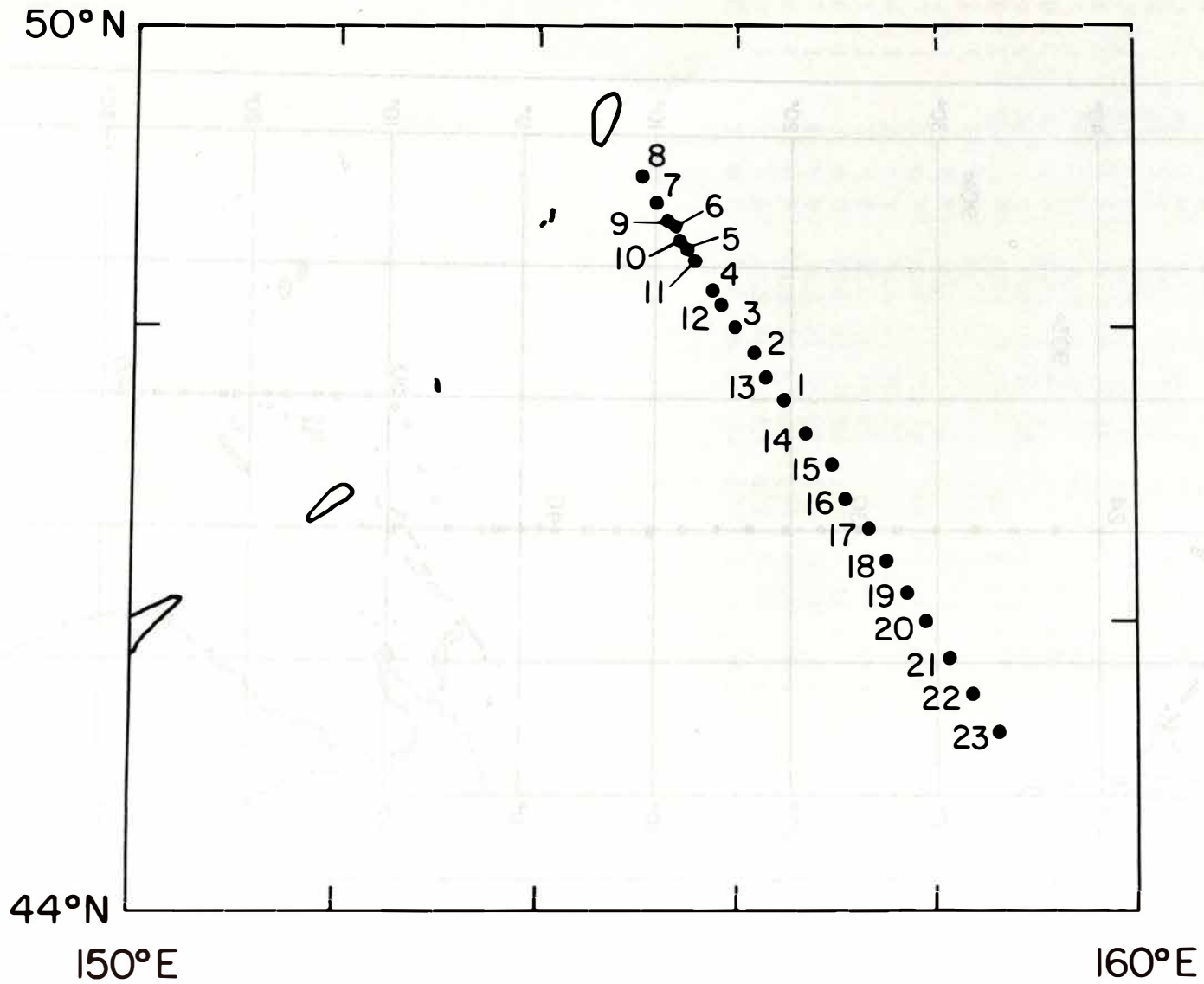
STA #	CAST	DA	MO	YR		LAT	LONG	TIME	DEPTH ABOVE BOTTOM	REMARKS
Test Stations										
901	1	5	5	87	ROS 31	58.0N	172 58.0W	1319		TEST
902	1	7	5	87	ROS 34	49.0N	178 7.0W	113		TEST
903	1	8	5	87	ROS 37	40.6N	176 16.2E	306	95	TEST
Northwest Pacific Stations										
1	1	11	5	87	ROS 47	30.8N	156 28.7E	813	11	
2	1	11	5	87	ROS 47	49.9N	156 10.2E	1441		
3	1	11	5	87	ROS 48	0.2N	155 59.4E	2035		
4	1	12	5	87	ROS 48	15.0N	155 45.0E	228	18	
5	1	12	5	87	ROS 48	31.4N	155 29.7E	650	20	
5	2	12	5	87	ROS 48	31.0N	155 30.0E	909		
6	1	12	5	87	ROS 48	40.5N	155 22.3E	1203	13	
7	1	12	5	87	ROS 48	50.0N	155 11.0E	1442	10	
8	1	12	5	87	ROS 49	0.1N	155 1.7E	2147	9	
9	1	13	5	87	ROS 48	42.8N	155 17.6E	53		
10	1	13	5	87	ROS 48	35.0N	155 25.0E	353	6	
11	1	13	5	87	ROS 48	26.5N	155 34.5E	722	15	
12	1	13	5	87	ROS 48	9.2N	155 50.1E	1331	9	
12	2	13	5	87	ROS 48	14.4N	155 56.7E	1729		
13	1	14	5	87	ROS 47	39.7N	156 18.0E	325		
13	2	14	5	87	ROS 47	38.9N	156 19.0E	715		
14	1	14	5	87	ROS 47	17.3N	156 41.5E	1200	10	
15	1	15	5	87	ROS 47	4.3N	156 57.8E	23	10	
15	2	15	5	87	ROS 47	4.5N	156 57.8E	316		
16	1	15	5	87	ROS 46	50.5N	157 5.7E	708	9	
17	1	15	5	87	ROS 46	37.9N	157 20.0E	2132	9	
18	1	16	5	87	ROS 46	24.9N	157 29.9E	244	10	
18	2	16	5	87	ROS 46	26.2N	157 33.1E	527		
18	3	16	5	87	ROS 46	26.2N	157 33.5E	703		
19	1	16	5	87	ROS 46	12.0N	157 43.0E	1043	12	
20	1	16	5	87	ROS 45	59.5N	157 53.4E	2244	10	
21	1	17	5	87	ROS 45	45.0N	158 8.0E	416	10	
21	2	17	5	87	ROS 45	46.0N	158 8.5E	652		
22	1	17	5	87	ROS 45	30.0N	158 22.0E	1058	10	WIRE FAILURE
22	2	18	5	87	ROS 45	31.4N	158 21.0E	720		
23	1	18	5	87	ROS 45	13.4N	158 37.6E	1257		
Meridional Transect										
24	1	19	5	87	ROS 40	1.0N	159 59.5E	1829		
25	1	20	5	87	ROS 37	21.8N	160 0.6E	613		
26	1	20	5	87	ROS 34	52.2N	160 0.5E	1837		
27	1	21	5	87	ROS 32	21.5N	160 1.5E	634		
28	1	21	5	87	ROS 29	52.1N	160 0.0E	1839		
29	1	22	5	87	ROS 27	16.7N	160 0.4E	628		
30	1	22	5	87	ROS 24	39.7N	160 1.4E	1833		
31	1	23	5	87	ROS 22	4.4N	160 0.0E	627		
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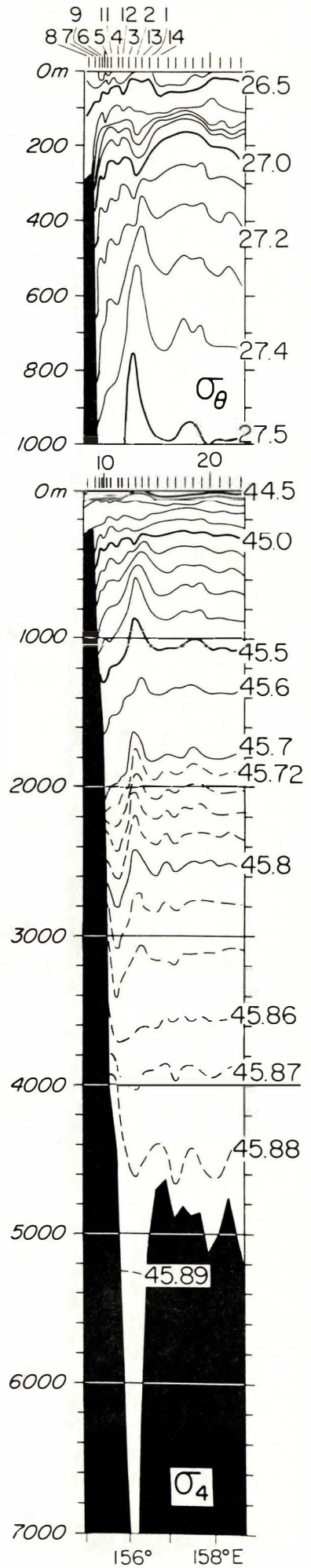
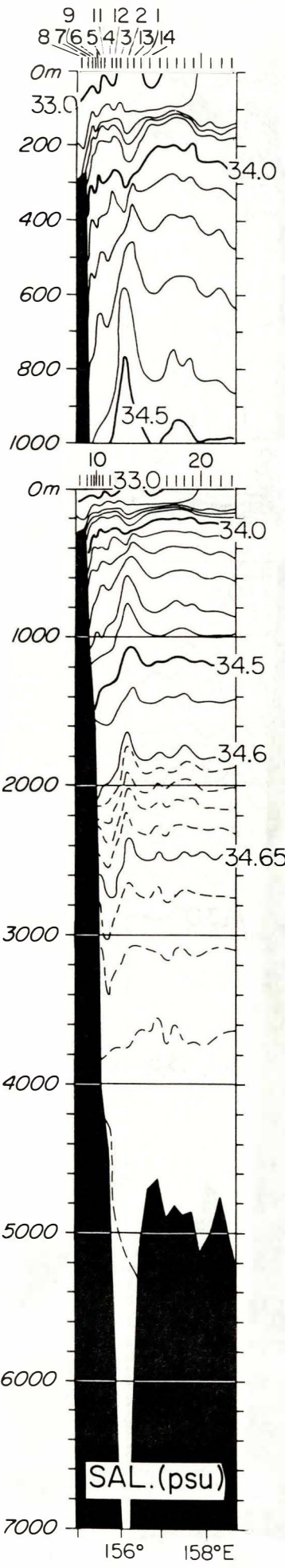
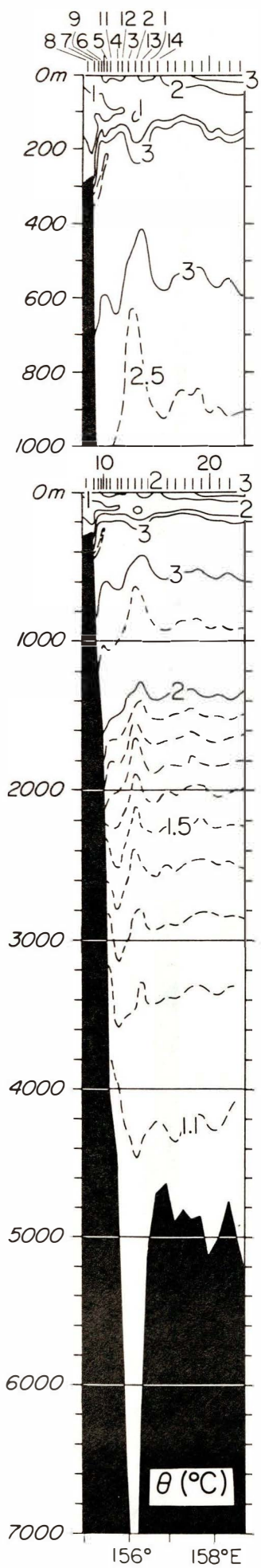
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38	1	26	5	87	ROS	7	13.0N	160	0.0E	1902
39	1	27	5	87	ROS	4	51.3N	160	0.5E	643
40	1	27	5	87	ROS	2	28.0N	160	0.0E	1833
41	1	28	5	87	ROS	1	22.5N	160	2.3E	25
42	1	28	5	87	ROS	0	0.1S	159	59.8E	934
43	1	28	5	87	ROS	1	22.9S	160	0.6E	1839
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45	1	29	5	87	ROS	3	0.4S	160	0.2E	619
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47	1	30	5	87	ROS	6	28.6S	162	13.6E	622
48	1	30	5	87	ROS	7	33.0S	164	31.0E	1830
49	1	31	5	87	ROS	8	33.6S	167	54.8E	623
50	1	31	5	87	ROS	9	35.0S	169	8.0E	1833
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52	1	1	6	87	ROS	13	48.9S	170	0.4E	1852
53	1	2	6	87	ROS	15	16.3S	169	59.8E	646
54	1	2	6	87	ROS	17	30.0S	170	0.0E	1835
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56	1	3	6	87	ROS	21	0.0S	169	57.1E	2004
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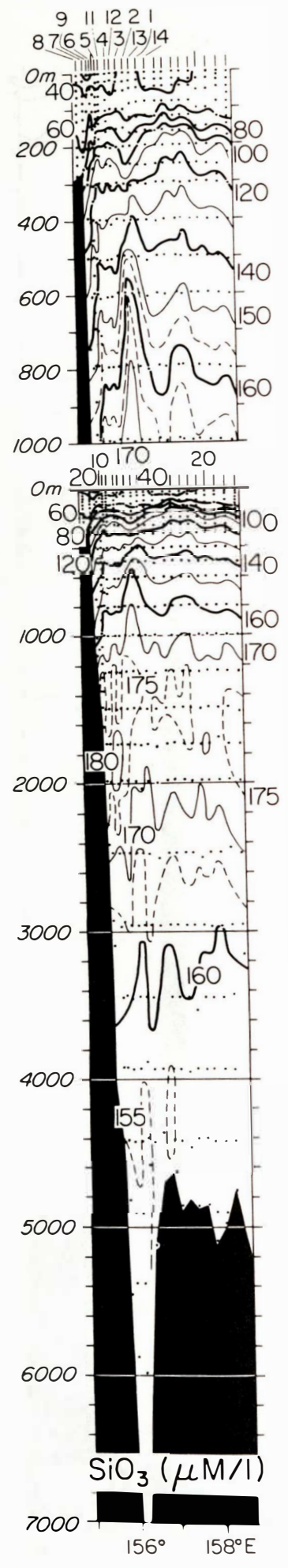
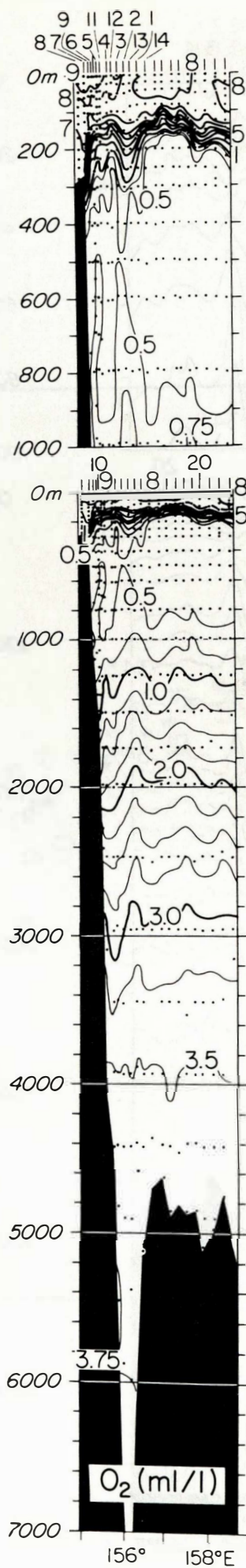
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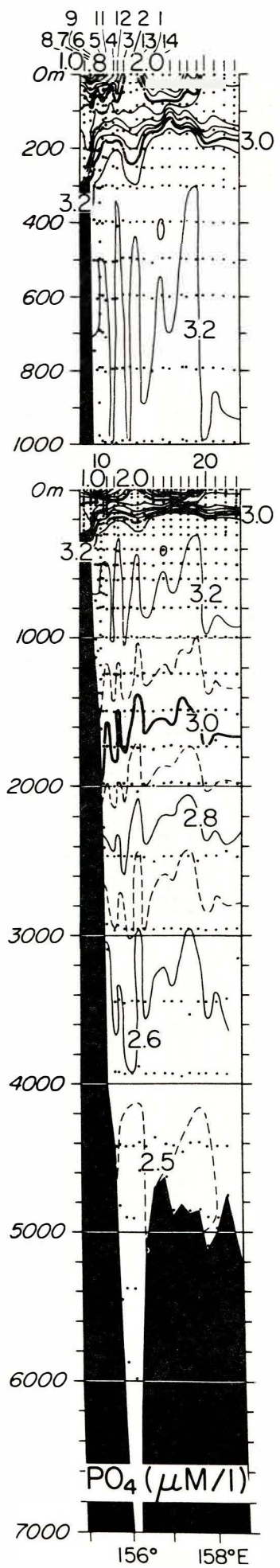
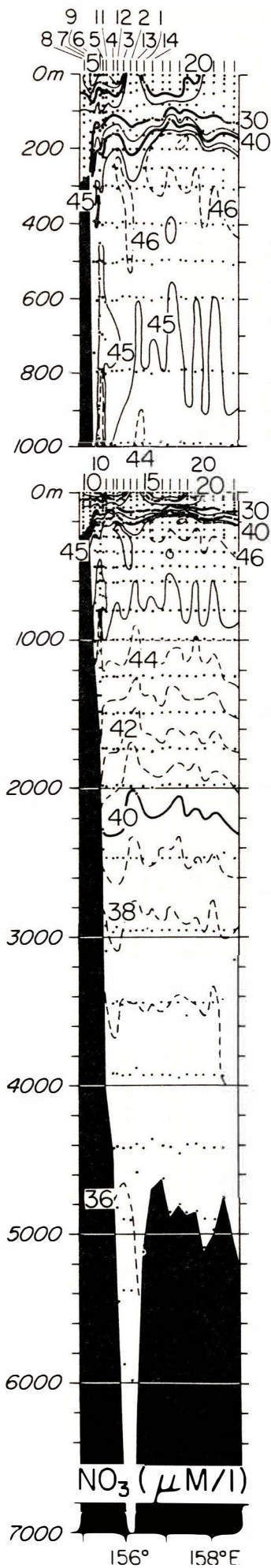
A. KOROLEV MAY, 1987





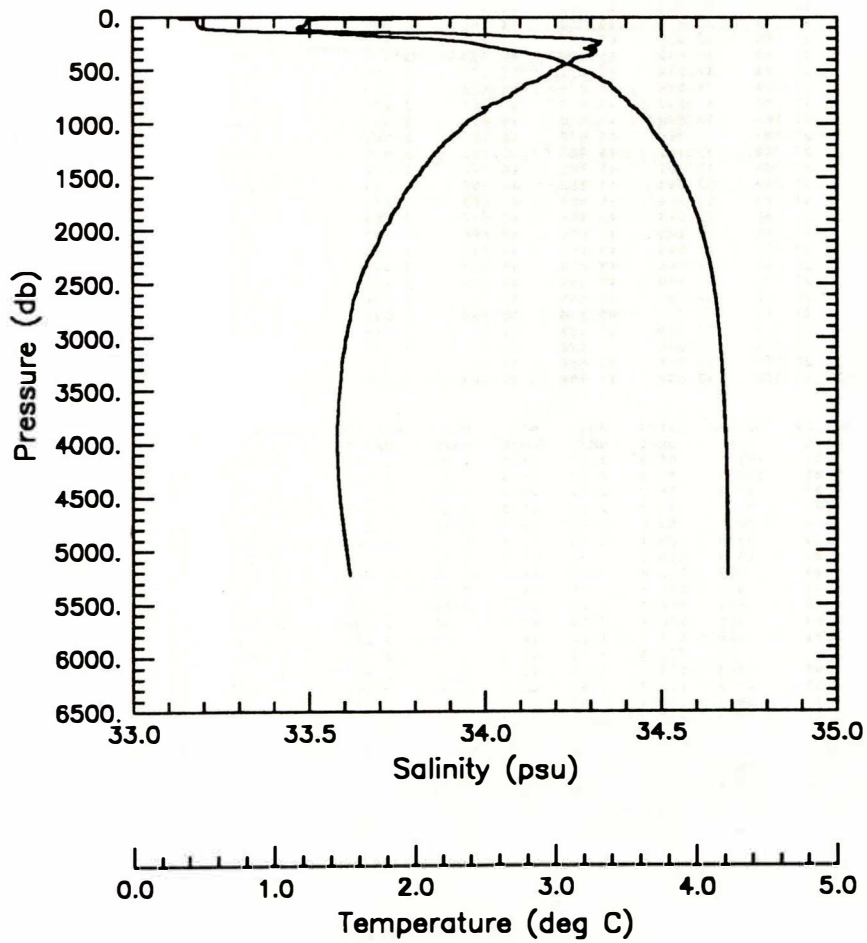
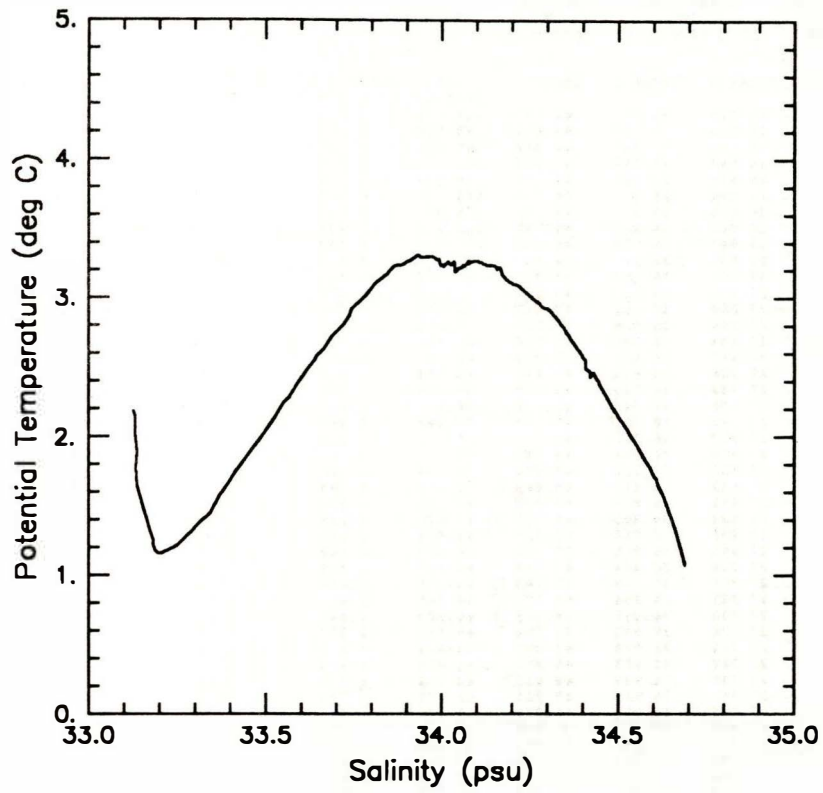






AKADEMIK KOROLEV SAGA II		STATION 1		START TIME GMT 812	BOTTOM M 5132												
LATITUDE	LONGITUDE	MO/DY/YR															
47 30.9N	156 28.7E	5/11/87															
CTD DATA													BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M		
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M									
0	2.181	33.127	2.181	26.457	35.675	44.481	156.255	0.000				1456.4	0				
20	1.605	33.153	1.604	26.521	35.771	44.607	150.260	0.031				1454.2	19				
40	1.232	33.183	1.231	26.569	35.840	44.695	145.650	0.060	1.880			1452.9	39				
60	1.224	33.183	1.222	26.570	35.841	44.697	145.599	0.089	0.530			1453.2	59				
80	1.212	33.184	1.208	26.572	35.843	44.700	145.447	0.118	0.980			1453.5	79				
100	1.173	33.192	1.168	26.581	35.855	44.713	144.599	0.147	1.820			1453.7	99				
150	2.164	33.529	2.156	26.781	35.994	44.795	126.127	0.217	3.730			1459.3	149				
200	3.140	33.823	3.128	26.934	36.089	44.836	112.403	0.276	2.970			1464.7	199				
250	3.310	33.972	3.294	27.037	36.181	44.918	103.063	0.330	2.180			1466.5	248				
300	3.236	34.051	3.217	27.108	36.254	44.994	96.759	0.380	2.090			1467.1	298				
350	3.255	34.143	3.233	27.180	36.324	45.061	90.336	0.427	2.180			1468.1	348				
400	3.127	34.204	3.101	27.241	36.391	45.134	84.844	0.470	1.570			1468.4	397				
450	3.061	34.243	3.032	27.278	36.432	45.177	81.607	0.512	1.610			1469.0	447				
500	2.990	34.277	2.958	27.312	36.469	45.218	78.673	0.552	1.530			1469.6	497				
600	2.861	34.335	2.823	27.370	36.533	45.288	73.728	0.628	1.490			1470.8	596				
700	2.718	34.374	2.673	27.414	36.585	45.346	69.983	0.699	1.110			1471.8	695				
800	2.588	34.407	2.538	27.453	36.630	45.398	66.764	0.768	1.100			1473.0	794				
900	2.477	34.438	2.421	27.487	36.671	45.444	63.877	0.833	1.110			1474.2	893				
1000	2.362	34.464	2.300	27.518	36.708	45.487	61.254	0.896	0.870			1475.4	992				
1100	2.280	34.483	2.211	27.541	36.735	45.518	59.486	0.956	0.980			1476.7	1091				
1200	2.199	34.506	2.123	27.566	36.764	45.552	57.444	1.014	0.860			1478.1	1190				
1300	2.128	34.527	2.046	27.589	36.791	45.582	55.592	1.071	0.820			1479.4	1289				
1400	2.068	34.543	1.979	27.607	36.813	45.607	54.199	1.126	0.880			1480.9	1388				
1500	2.006	34.559	1.909	27.625	36.835	45.632	52.728	1.179	0.830			1482.3	1487				
1600	1.953	34.572	1.849	27.640	36.853	45.653	51.587	1.232	0.810			1483.7	1586				
1700	1.911	34.584	1.800	27.654	36.869	45.672	50.645	1.283	0.750			1485.2	1684				
1800	1.862	34.595	1.744	27.667	36.885	45.691	49.597	1.331	0.770			1486.7	1783				
1900	1.824	34.607	1.699	27.680	36.900	45.708	48.677	1.382	0.610			1488.3	1882				
2000	1.775	34.614	1.642	27.690	36.913	45.724	47.950	1.430	0.670			1489.7	1980				
2100	1.739	34.622	1.598	27.700	36.926	45.738	47.241	1.478	0.570			1491.3	2079				
2200	1.701	34.630	1.553	27.709	36.937	45.752	46.583	1.525	0.550			1492.8	2177				
2300	1.654	34.638	1.498	27.720	36.950	45.768	45.764	1.571	0.540			1494.3	2276				
2400	1.624	34.643	1.460	27.727	36.960	45.780	45.292	1.616	0.530			1495.8	2374				
2500	1.598	34.648	1.425	27.733	36.968	45.798	44.909	1.662	0.560			1497.4	2473				
2600	1.578	34.652	1.396	27.739	36.975	45.798	44.668	1.706	0.570			1499.1	2571				
2700	1.553	34.657	1.363	27.745	36.983	45.808	44.307	1.751	0.450			1500.6	2669				
2800	1.539	34.660	1.339	27.749	36.988	45.814	44.152	1.795	0.360			1502.3	2767				
2900	1.522	34.663	1.314	27.753	36.994	45.821	44.030	1.839	0.450			1503.9	2866				
3000	1.508	34.666	1.291	27.757	36.999	45.828	43.905	1.883	0.500			1505.6	2964				
3100	1.499	34.668	1.272	27.760	37.003	45.833	43.914	1.927	0.380			1507.2	3062				
3200	1.482	34.671	1.246	27.764	37.009	45.839	43.747	1.971	0.390			1508.9	3160				
3300	1.477	34.673	1.232	27.767	37.012	45.843	43.825	2.015	0.350			1510.6	3258				
3400	1.472	34.674	1.216	27.769	37.015	45.847	43.897	2.058	0.310			1512.3	3356				
3500	1.463	34.676	1.198	27.772	37.019	45.852	43.897	2.102	0.360			1513.9	3454				
3600	1.455	34.678	1.180	27.775	37.023	45.857	43.874	2.146	0.310			1515.6	3552				
3700	1.452	34.680	1.166	27.777	37.026	45.860	44.004	2.190	0.300			1517.3	3650				
3800	1.449	34.681	1.153	27.779	37.028	45.864	44.127	2.234	0.390			1519.1	3747				
3900	1.445	34.683	1.139	27.781	37.031	45.868	44.212	2.278	0.340			1520.8	3845				
4000	1.444	34.684	1.127	27.783	37.034	45.871	44.352	2.323	0.310			1522.5	3943				
4100	1.446	34.685	1.118	27.785	37.037	45.873	44.579	2.367	0.260			1524.2	4041				
4200	1.450	34.686	1.110	27.785	37.037	45.875	44.824	2.412	0.230			1526.0	4138				
4300	1.455	34.687	1.104	27.787	37.039	45.875	45.085	2.457	0.290			1527.7	4236				
4400	1.459	34.687	1.097	27.788	37.040	45.879	45.354	2.502	0.270			1529.5	4333				
4500	1.468	34.688	1.092	27.788	37.041	45.880	45.680	2.548	0.150			1531.3	4431				
4600	1.475	34.688	1.089	27.788	37.041	45.880	46.100	2.593	0.120			1533.0	4528				
4700	1.483	34.688	1.086	27.789	37.042	45.881	46.457	2.640	0.100			1534.8	4626				
4800	1.493	34.689	1.083	27.790	37.043	45.882	46.836	2.686	0.130			1536.6	4723				
4900	1.503	34.689	1.081	27.790	37.043	45.882	47.261	2.733	0.160			1538.4	4820				
5000	1.513	34.689	1.078	27.790	37.044	45.883	47.634	2.781	0.170			1540.2	4918				
5100	1.523	34.689	1.075	27.791	37.044	45.884	48.048	2.829	0.190			1542.0	5015				
5200	1.534	34.689	1.074	27.791	37.045	45.884	48.487	2.877			1543.8	5112					
5226	1.538	34.689	1.074	27.790	37.044	45.884	48.653	2.890			1544.2	5137					
NISKIN BOTTLE DATA													POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SiO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L								
1	2.183	33.130	7.84	101.9	41.4	1.71	18.1	0.26	2.183	26.460	35.678	44.484	1				
21	1.633	33.142	8.37	107.2	47.3	1.90	22.5	0.24	1.633	26.510	35.758	44.593	21				
41	1.231	33.181	8.18	103.8	56.3	2.19	27.0	0.23	1.231	26.568	35.838	44.694	41				
80	1.217	33.183	7.73	98.0	56.2	2.19	27.0	0.23	1.217	26.571	35.842	44.698	80				
121	1.210	33.236	7.13	90.4	60.8	2.28	28.4	0.22	1.210	26.614	35.884	44.740	121				
161	2.382	33.594	3.63	47.6	84.8	2.81	37.7	0.02	2.382	26.815	36.014	44.803	162				
200	3.167	33.837	1.48	19.8	102.1	3.15	43.7	0.02	3.167	26.942	36.095	44.829	201				
250	3.314	33.974	0.87	11.7	113.2	3.27	45.6	0.01	3.314	27.037	36.180	44.916	251				
299	3.235	34.051	0.69	9.3	120.9	3.23	45.5	0.00	3.235	27.106	36.252	44.990	300				
398	3.122	34.203	0.47	6.3	136.4	3.23	45.6	0.00	3.122	27.238	36.387	45.129	400				
497	2.988	34.278	0.43	5.7	146.8	3.23	45.6	0.00	2.988	27.310	36.465	45.212	500				
595	2.869	34.332	0.41	5.5	153.0	3.23	45.5	0.00	2.869	27.364	36.524	45.277	599				
792	2.592	34.408	0.54	7.2	161.3	3.22	45.0	0.00	2.592	27.449	36.623	45.388	798				
992	2.365	34.464	0.73	9.6	168.2	3.18	44.4	0.00	2.365	27.513	36.699	45.474	1000				
1236	2.167	34.517	1.04	13.6	171.5	3.13	43.6	0.00	2.167	27.571	36.767	45.552	1246				
1488	2.005	34.562	1.32	17.2	173.9	3.05	42.5	0.00	2.005	27.620</							

KOROLEV Sta. 1



AKADEMIK KOROLEV SAGA II
LATITUDE LONGITUDE
47 49.9N 156 10.2E

STATION 2
MO/DY/YR
5/11/87

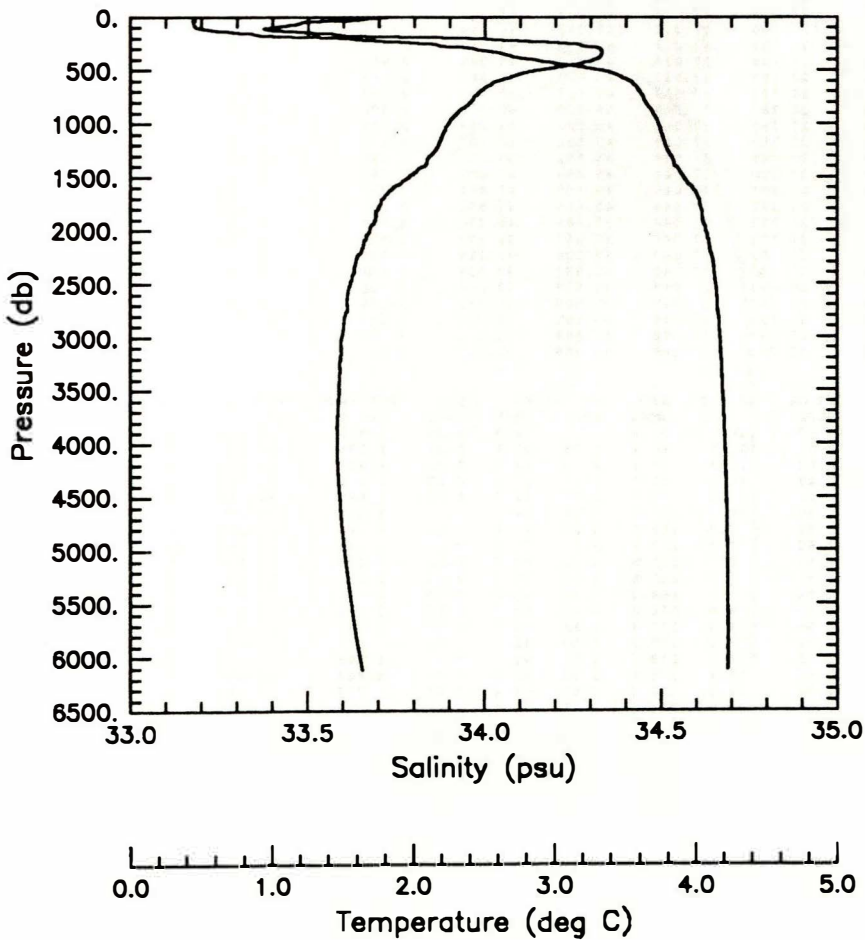
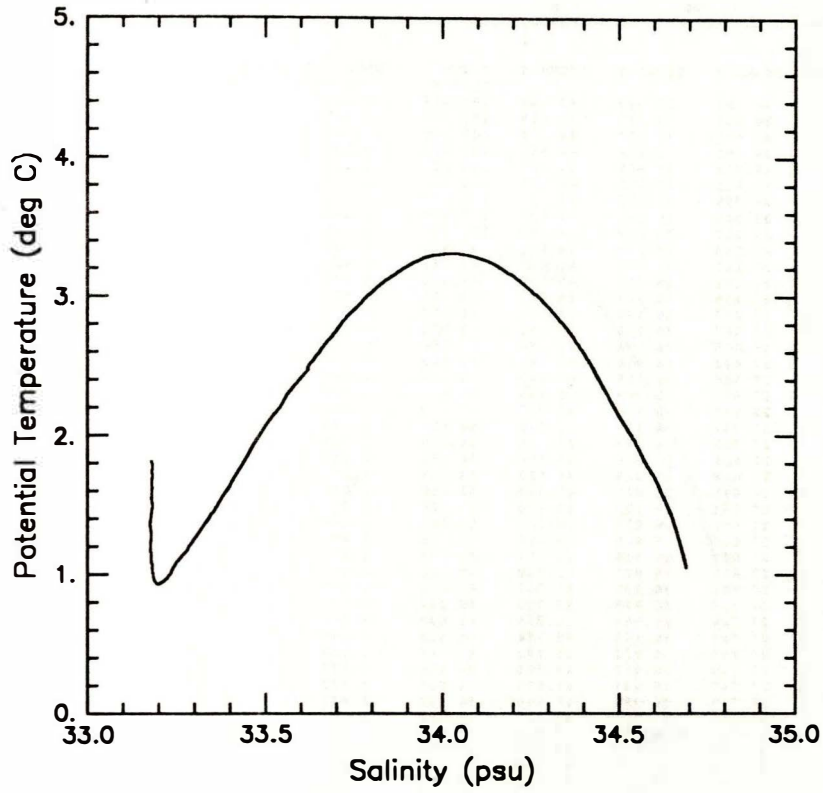
START TIME
GMT
1436

BOTTOM
M
7768

CTD DATA				SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C								
0	1.800	33.180	1.800	26.529	35.767	44.592	149.496	0.000		1454.9	0
20	1.656	33.180	1.655	26.539	35.785	44.618	148.573	0.030		1454.5	19
40	1.389	33.178	1.388	26.555	35.817	44.664	146.995	0.059	1.560	1453.6	39
60	1.191	33.176	1.189	26.567	35.840	44.697	145.904	0.089	1.210	1453.1	59
80	1.106	33.178	1.103	26.574	35.852	44.714	145.194	0.118	1.290	1453.0	79
100	0.993	33.185	0.989	26.585	35.870	44.739	144.030	0.147	1.790	1452.8	99
150	1.118	33.314	1.311	26.670	35.933	44.782	136.307	0.217	2.290	1455.3	149
200	2.420	33.597	2.409	26.815	36.013	44.800	123.213	0.283	3.070	1461.3	199
250	3.114	33.831	3.098	26.943	36.100	44.848	111.815	0.342	2.660	1465.4	248
300	3.316	33.971	3.297	27.036	36.180	44.916	103.558	0.396	2.270	1467.3	297
350	3.326	34.056	3.304	27.103	36.245	44.980	97.602	0.446	1.760	1468.3	348
400	3.267	34.139	3.241	27.176	36.320	45.056	91.110	0.493	2.450	1469.0	397
450	3.105	34.235	3.077	27.268	36.419	45.162	82.643	0.537	2.490	1469.2	447
500	2.865	34.331	2.834	27.366	36.529	45.283	73.460	0.576	2.310	1469.1	497
600	2.585	34.410	2.548	27.454	36.631	45.398	65.394	0.645	1.410	1469.7	596
700	2.396	34.437	2.423	27.486	36.670	45.443	62.780	0.709	0.870	1470.8	695
800	2.396	34.454	2.347	27.506	36.693	45.470	61.388	0.771	0.830	1472.2	794
900	2.304	34.476	2.249	27.532	36.724	45.505	59.350	0.831	0.830	1473.5	893
1000	2.240	34.491	2.178	27.550	36.746	45.530	58.010	0.890	0.710	1474.9	992
1100	2.170	34.502	2.130	27.562	36.761	45.548	57.248	0.947	0.640	1476.4	1091
1200	2.120	34.511	2.095	27.572	36.772	45.561	56.781	1.005	0.620	1477.9	1190
1300	2.112	34.527	2.029	27.590	36.794	45.585	55.397	1.061	0.920	1479.4	1289
1400	2.065	34.540	1.976	27.605	36.811	45.606	54.334	1.116	1.070	1480.8	1388
1500	1.964	34.563	1.868	27.632	36.843	45.643	51.993	1.169	0.920	1482.1	1487
1600	1.851	34.598	1.749	27.661	36.879	45.694	49.260	1.219	0.970	1483.3	1586
1700	1.793	34.605	1.674	27.680	36.902	45.711	47.630	1.268	0.830	1484.7	1684
1800	1.744	34.614	1.628	27.691	36.915	45.726	46.894	1.315	0.670	1486.2	1783
1900	1.727	34.618	1.603	27.696	36.921	45.734	46.769	1.362	0.480	1487.8	1882
2000	1.687	34.626	1.555	27.706	36.934	45.749	45.987	1.408	0.500	1489.3	1980
2100	1.644	34.635	1.505	27.717	36.948	45.765	45.176	1.454	0.560	1490.9	2079
2200	1.626	34.640	1.479	27.722	36.954	45.773	44.965	1.499	0.610	1492.5	2177
2300	1.586	34.647	1.431	27.732	36.967	45.788	44.223	1.543	0.450	1494.0	2276
2400	1.573	34.651	1.409	27.736	36.972	45.794	44.117	1.587	0.540	1495.6	2374
2500	1.548	34.655	1.376	27.742	36.979	45.803	43.824	1.631	0.470	1497.2	2473
2600	1.529	34.658	1.349	27.747	36.985	45.811	43.635	1.675	0.340	1498.8	2571
2700	1.525	34.660	1.335	27.749	36.989	45.815	43.732	1.719	0.130	1500.5	2669
2800	1.512	34.663	1.314	27.753	36.994	45.821	43.650	1.762	0.510	1502.2	2767
2900	1.502	34.665	1.294	27.756	36.998	45.826	43.621	1.806	0.330	1503.8	2866
3000	1.490	34.667	1.273	27.759	37.002	45.832	43.578	1.850	0.470	1505.5	2964
3100	1.484	34.669	1.258	27.762	37.006	45.836	43.639	1.893	0.250	1507.2	3062
3200	1.479	34.671	1.243	27.764	37.009	45.840	43.716	1.937	0.340	1508.9	3160
3300	1.475	34.672	1.230	27.766	37.012	45.843	43.828	1.981	0.240	1510.6	3258
3400	1.473	34.674	1.218	27.768	37.014	45.846	43.978	2.024	0.330	1512.3	3356
3500	1.471	34.675	1.205	27.770	37.017	45.850	44.118	2.068	0.230	1514.0	3454
3600	1.465	34.677	1.190	27.773	37.020	45.854	44.167	2.113	0.400	1515.7	3552
3700	1.463	34.678	1.177	27.775	37.023	45.857	44.292	2.157	0.250	1517.4	3650
3800	1.458	34.680	1.161	27.777	37.026	45.861	44.3720	2.201	0.290	1519.1	3747
3900	1.457	34.681	1.150	27.779	37.028	45.864	44.541	2.246	0.290	1520.8	3845
4000	1.458	34.692	1.140	27.780	37.030	45.867	44.739	2.290	0.380	1522.6	3943
4100	1.459	34.683	1.130	27.782	37.032	45.869	44.930	2.335	0.260	1524.3	4041
4200	1.462	34.694	1.122	27.783	37.034	45.871	45.177	2.380	0.210	1526.0	4138
4300	1.466	34.685	1.115	27.784	37.036	45.873	45.425	2.425	0.230	1527.8	4236
4400	1.471	34.685	1.109	27.785	37.037	45.875	45.718	2.471	0.270	1529.5	4333
4500	1.477	34.686	1.103	27.786	37.038	45.876	46.010	2.517	0.240	1531.3	4431
4600	1.482	34.687	1.096	27.787	37.040	45.878	46.289	2.563	0.250	1533.1	4528
4700	1.488	34.687	1.090	27.788	37.041	45.880	46.611	2.610	0.200	1534.8	4626
4800	1.495	34.688	1.085	27.789	37.042	45.881	46.946	2.656	0.200	1536.6	4723
4900	1.503	34.688	1.081	27.789	37.043	45.882	47.305	2.703	0.200	1538.4	4820
5000	1.512	34.689	1.077	27.790	37.044	45.883	47.660	2.751	0.090	1540.2	4918
5100	1.520	34.689	1.073	27.790	37.044	45.884	48.037	2.799	0.170	1541.9	5015
5200	1.531	34.689	1.071	27.791	37.045	45.884	48.466	2.847	0.140	1543.7	5112
5300	1.539	34.689	1.067	27.791	37.046	45.886	48.840	2.896	0.180	1545.5	5209
5400	1.551	34.689	1.065	27.791	37.046	45.886	49.293	2.945	0.170	1547.3	5306
5500	1.561	34.690	1.062	27.792	37.046	45.886	49.718	2.994	0.180	1549.1	5403
5600	1.571	34.690	1.059	27.792	37.047	45.888	50.107	3.044	0.170	1550.9	5500
5700	1.582	34.690	1.056	27.793	37.047	45.888	50.560	3.094	0.150	1552.7	5597
5800	1.593	34.690	1.054	27.793	37.048	45.888	51.017	3.145	0.090	1554.5	5694
5900	1.607	34.690	1.054	27.793	37.048	45.888	51.523	3.197		1556.3	5791
6000	1.621	34.690	1.054	27.793	37.048	45.888	52.050	3.248		1558.2	5888
6116	1.637	34.690	1.054	27.793	37.048	45.888	52.662	3.309		1560.3	6000

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB	
CAST 1	DEPTH M													
	1	1.797	33.182	7.87	101.3	55.5	2.15	26.8	0.23	1.797	26.530	35.769	44.594	1
	26	1.611	33.180	7.88	100.9	55.9	2.17	26.8	0.23	1.610	26.542	35.791	44.626	26
	50	1.219	33.177	7.87	99.8	55.0	2.17	26.9	0.24	1.217	26.566	35.837	44.693	50
	100	1.010	33.185	7.70	97.1	55.2	2.19	27.2	0.27	1.007	26.586	35.860	44.736	100
	150	1.282	33.315	6.30	80.1	63.9	2.40	30.8	0.18	1.277	26.673	35.938	44.789	150
	200	2.455	33.608	3.42	44.9	85.1	2.83	38.6	0.01	2.446	26.821	36.017	44.802	201
	300	3.318	33.972	0.81	10.9	115.4	3.26	46.0	0.01	3.305	27.037	36.180	44.916	301
	400	3.263	34.145	0.44	5.9	132.80	3.39	46.7	0.00	3.247	27.180	36.324	45.060	402
	495	2.863	34.330	0.37	4.9	154.6	3.28	46.2	0.00	2.845	27.364	36.526	45.280	498
	594	2.592	34.404	0.48	6.4	164.9	3.23	45.6	0.00	2.568	27.448	36.623	45.390	598
	789	2.399	34.451	0.69	9.1	170.4	3.16	45.0	0.00	2.369	27.502	36.688	45.463	795
	988	2.241	34.490	0.91	11.9	173.7	3.14	44.1	0.00	2.206	27.547	36.741	45.524	996
	1233	2.152	34.516			175.8	3.12	43.6	0.00	2.104	27.576	36.775	45.563	1243
	1481	1.965	34.562	1.48	19.3	175.7	3.04	42.3	0.00	1.905	27.628	36.838	45.636	1494
	1731	1.763	34.608	2.08	27.0	172.7	2.91	40.7	0.00	1.688	27.682	36.902	45.711	1747
	1979	1.686	34.629	2.39	29.7	170.4	2.86	40.1	0.00	1.593	27.706	36.931	45.744	1999
	2465	1.549	34.654	2.82	36.3	165.7	2.75	38.5	0.00	1.439	27.737	36.971	45.792	2494
	2951	1.492	34.662	3.11	40.0	162.0	2.71	37.7	0.00	1.351	27.755	36.993	45.817	2998
	3443	1.471	34.677			159.8	2.62	37.0	0.00	1.300				

KOROLEV Sta. 2

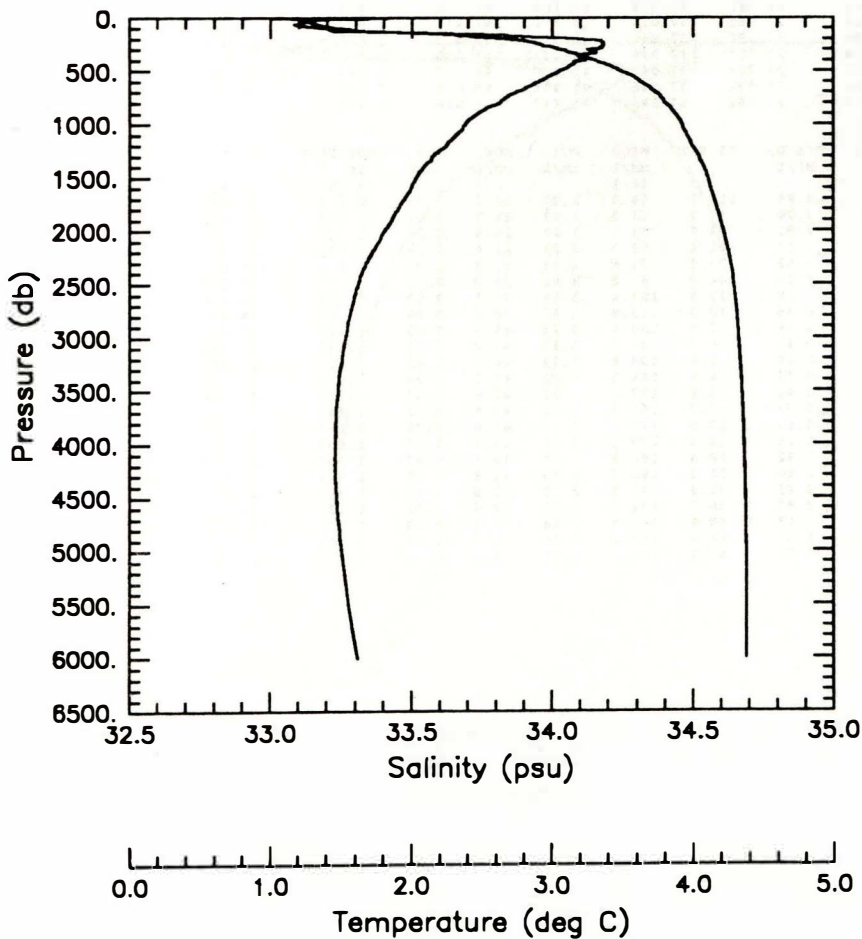
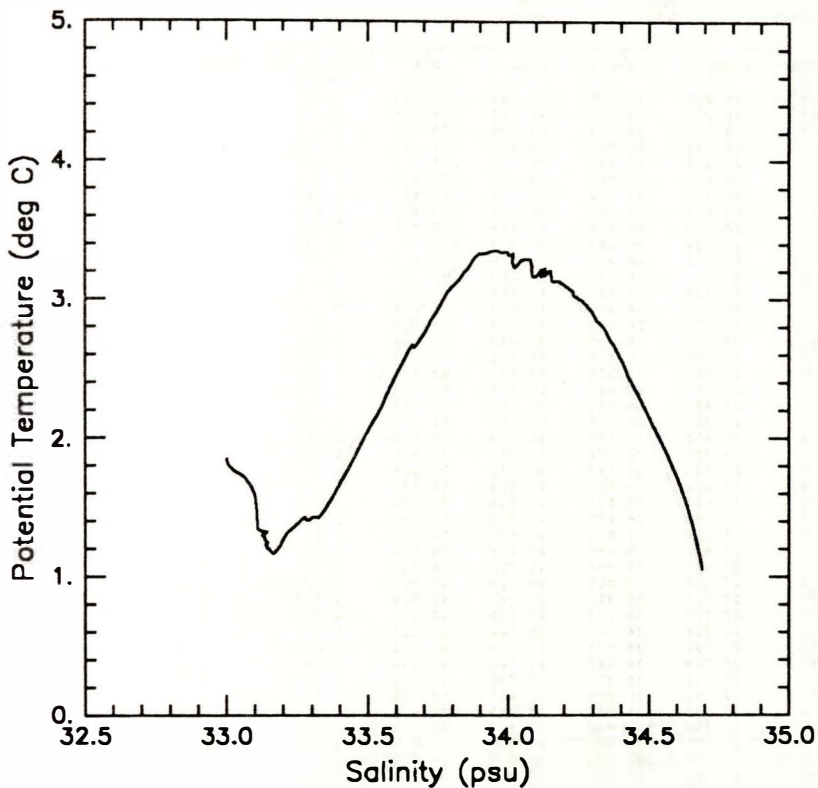


AKADEMIK KOROLEV SAGA II STATION 3
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 2030 5695

CTD DATA PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	1.854	33.002	1.854	26.382	35.620	44.445	163.443	0.000		1454.8	0
0	1.382	33.117	1.381	26.507	35.770	44.618	151.577	0.031		1453.2	1.9
20	1.251	33.138	1.249	26.533	35.803	44.658	149.148	0.061	2.060	1453.0	3.9
40	1.186	33.156	1.183	26.551	35.824	44.683	147.401	0.091	1.850	1453.0	5.9
60	1.230	33.188	1.227	26.574	35.845	44.700	145.226	0.120	2.130	1453.6	7.9
80	1.379	33.247	1.375	26.611	35.872	44.719	141.766	0.149	2.640	1454.7	9.9
100	2.323	33.567	2.315	26.799	36.002	44.794	124.500	0.216	3.390	1460.1	14.9
150	3.187	33.836	3.175	26.940	36.093	44.837	111.900	0.275	2.690	1465.0	19.9
200	3.365	33.953	3.349	27.017	36.159	44.893	104.397	0.329	1.930	1466.7	24.8
250	3.274	34.031	3.255	27.088	36.233	44.971	98.622	0.380	1.920	1467.2	29.8
300	3.194	34.089	3.172	27.143	36.291	45.032	91.787	0.428	1.800	1467.8	34.8
350	3.212	34.151	3.186	27.191	36.337	45.077	89.651	0.474	1.790	1468.8	39.7
400	3.129	34.203	3.100	27.239	36.390	45.133	85.320	0.519	1.610	1469.3	44.7
450	3.052	34.240	3.020	27.277	36.431	45.177	82.677	0.560	1.590	1469.8	49.7
500	2.901	34.310	2.863	27.347	36.508	45.261	75.955	0.638	1.360	1470.9	59.6
550	2.742	34.364	2.698	27.405	36.574	45.334	70.954	0.712	1.420	1471.9	69.5
600	2.624	34.398	2.573	27.442	36.618	45.384	67.812	0.781	1.120	1473.1	79.4
650	2.469	34.434	2.412	27.485	36.669	45.442	64.080	0.846	1.070	1474.2	89.3
700	2.380	34.459	2.317	27.513	36.702	45.480	61.805	0.909	0.930	1475.5	99.2
750	2.312	34.477	2.242	27.533	36.726	45.507	60.285	0.970	0.850	1476.8	109.1
800	2.243	34.496	2.167	27.554	36.750	45.536	58.654	1.030	0.920	1478.2	119.0
850	2.148	34.520	2.065	27.582	36.783	45.574	56.289	1.087	0.830	1479.5	128.9
900	2.082	34.537	1.993	27.601	36.806	45.600	54.754	1.143	0.790	1480.9	138.8
950	2.029	34.552	1.933	27.618	36.826	45.623	53.519	1.197	0.720	1482.4	148.7
1000	1.991	34.563	1.887	27.631	36.841	45.640	52.660	1.250	0.640	1483.9	158.6
1050	1.946	34.574	1.835	27.644	36.857	45.658	51.724	1.302	0.710	1485.4	168.4
1100	1.898	34.586	1.780	27.657	36.873	45.677	50.681	1.353	0.730	1486.9	178.3
1150	1.854	34.597	1.728	27.670	36.889	45.695	49.738	1.404	0.600	1488.4	188.2
1200	1.807	34.608	1.673	27.683	36.904	45.713	48.783	1.453	0.710	1489.8	198.0
1250	1.766	34.616	1.625	27.693	36.917	45.729	48.021	1.501	0.680	1491.4	207.7
1300	1.716	34.626	1.567	27.705	36.933	45.747	47.032	1.549	0.620	1492.8	217.5
1350	1.674	34.634	1.518	27.715	36.945	45.762	46.277	1.595	0.620	1494.4	227.6
1400	1.643	34.641	1.478	27.724	36.956	45.775	45.695	1.641	0.550	1495.9	237.4
1450	1.617	34.645	1.444	27.729	36.963	45.784	45.413	1.687	0.490	1497.5	247.3
1500	1.596	34.649	1.415	27.735	36.970	45.792	45.127	1.732	0.490	1499.1	257.1
1550	1.577	34.654	1.387	27.740	36.977	45.801	44.874	1.777	0.510	1500.7	266.9
1600	1.558	34.657	1.359	27.745	36.984	45.809	44.635	1.822	0.422	1502.4	276.7
1650	1.543	34.660	1.335	27.749	36.989	45.815	44.532	1.857	0.380	1504.0	286.6
1700	1.527	34.663	1.310	27.753	36.994	45.822	44.407	1.911	0.390	1505.7	296.4
1750	1.513	34.666	1.287	27.757	36.999	45.828	44.300	1.955	0.440	1507.3	306.2
1800	1.505	34.668	1.269	27.760	37.003	45.833	44.311	2.000	0.320	1509.0	316.0
1850	1.490	34.671	1.244	27.764	37.009	45.839	44.166	2.044	0.420	1510.6	325.8
1900	1.480	34.673	1.225	27.767	37.013	45.845	44.142	2.088	0.310	1512.3	335.6
1950	1.476	34.674	1.210	27.769	37.016	45.848	44.232	2.132	0.290	1514.0	345.4
2000	1.469	34.676	1.194	27.772	37.019	45.853	44.256	2.177	0.360	1515.7	355.2
2050	1.462	34.678	1.176	27.775	37.023	45.857	44.279	2.221	0.370	1517.4	365.0
2100	1.460	34.679	1.164	27.777	37.026	45.861	44.411	2.265	0.340	1519.1	374.7
2150	1.460	34.680	1.153	27.778	37.028	45.863	44.603	2.310	0.300	1520.8	384.5
2200	1.459	34.682	1.141	27.780	37.030	45.866	44.744	2.354	0.280	1522.6	394.3
2250	1.458	34.683	1.129	27.782	37.033	45.870	44.898	2.399	0.330	1524.3	404.1
2300	1.457	34.684	1.117	27.784	37.035	45.873	45.041	2.444	0.310	1526.0	413.8
2350	1.459	34.685	1.108	27.785	37.037	45.875	45.248	2.489	0.280	1527.8	423.6
2400	1.462	34.686	1.100	27.786	37.039	45.877	45.507	2.535	0.230	1529.5	433.3
2450	1.469	34.687	1.095	27.787	37.040	45.878	45.818	2.580	0.230	1531.3	443.1
2500	1.473	34.687	1.088	27.788	37.041	45.880	46.094	2.626	0.280	1533.0	452.8
2550	1.479	34.688	1.082	27.789	37.043	45.882	46.407	2.672	0.190	1534.8	462.6
2600	1.489	34.688	1.079	27.789	37.043	45.882	46.797	2.719	0.160	1536.6	472.3
2650	1.494	34.688	1.072	27.790	37.044	45.884	47.107	2.766	0.160	1538.3	482.0
2700	1.504	34.689	1.069	27.791	37.045	45.885	47.481	2.813	0.140	1540.1	491.8
2750	1.514	34.689	1.067	27.791	37.046	45.886	47.882	2.861	0.190	1541.9	501.5
2800	1.523	34.690	1.063	27.792	37.046	45.886	48.270	2.909	0.130	1543.7	511.2
2850	1.534	34.690	1.061	27.792	37.047	45.887	48.699	2.958	0.090	1545.5	520.9
2900	1.544	34.690	1.058	27.792	37.047	45.888	49.119	3.006	0.190	1547.3	530.6
2950	1.553	34.690	1.055	27.793	37.048	45.889	49.507	3.056	0.120	1549.1	540.3
3000	1.566	34.690	1.054	27.793	37.048	45.888	50.009	3.106		1550.9	550.0
3050	1.579	34.690	1.053	27.793	37.048	45.889	50.493	3.156	0.100	1552.7	559.7
3100	1.591	34.690	1.052	27.793	37.048	45.889	50.974	3.207		1554.5	569.4
3150	1.605	34.690	1.052	27.793	37.048	45.889	51.472	3.258		1556.3	579.1
3200	1.619	34.690	1.052	27.793	37.048	45.889	52.025	3.311		1558.2	589.0

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB	
0	1.968	32.974	9.43	121.7	31.2	11.9	0.24	1.968	26.351	35.583	44.403		0	
25	1.196	33.072	8.01	101.4	46.4	1.95	21.6	0.23	1.195	26.483	35.757	44.616	25	
49	1.424	33.140	8.02	102.2	51.3	2.09	24.3	0.22	1.422	26.523	35.783	44.629	49	
99	1.274	33.205	7.43	94.4	58.1	2.21	27.1	0.22	1.270	26.585	35.853	44.706	99	
153	1.970	33.474	4.71	61.0	77.3	2.63	34.7	0.07	1.962	26.752	35.976	44.788	153	
201	3.327	33.809	1.36	18.3	101.2	3.18	44.7	0.03	3.314	26.906	36.051	44.789	201	
297	3.405	34.037	0.51	6.9	119.8	3.28	46.4	0.00	3.385	27.081	36.219	44.950	297	
396	3.169	34.142	0.62	8.3	132.4	3.24	45.5	0.00	3.143	27.187	36.336	45.078	396	
495	3.068	34.233	0.50	6.7	142.8	3.24	45.7	0.00	3.036	27.270	35.423	45.168	495	
594	2.872	34.295	0.57	7.6	151.6	3.23	45.3	0.00	2.834	27.337	36.501	45.255	594	
792	2.622	34.393	0.54	7.1	164.2	3.23	45.2	0.00	2.572	27.438	36.624	45.381	792	
990	2.415	34.451	0.67	8.8	172.2	3.23	44.7	0.00	2.352	27.503	36.690	45.467	990	
1236	2.210	34.506	0.98	12.8	177.7	3.14	43.3	0.00	2.131	27.566	36.763	45.551	1236	
1487	2.013	34.557	1.32	17.2	179.2	3.09	42.7	0.00	1.917	27.623	36.832	45.630	1487	
1729	1.908	34.585	1.62	21.0	178.7	3.02	41.9	0.00	1.794	27.655	36.871	45.674	1745	
1975	1.798	34.610	1.96	25.4	175.6	2.93	41.0	0.00	1.665	27.685	36.907	45.717	1995	
2468	1.640	34.641	2.50	32.2	172.8	2.83	39.4	0.00	1.457	27.724	36.957	45.777	2496	
2957	1.532	34.663	2.97	38.1	165.5	2.71	38.0	0.00	1.315	27.753	36.994	45.821	2994	
3456	1.445	34.690	3.22	42.3	155.1	2.64	35.9	0.00	1.272	27.775	37.021	45.854	3503	
3935	1.448	34.699	3.53	45.1	158.2	2.58	35.5	0.00	1.132	27.797	37.037	45.874	3993	
4419	1.465	34												

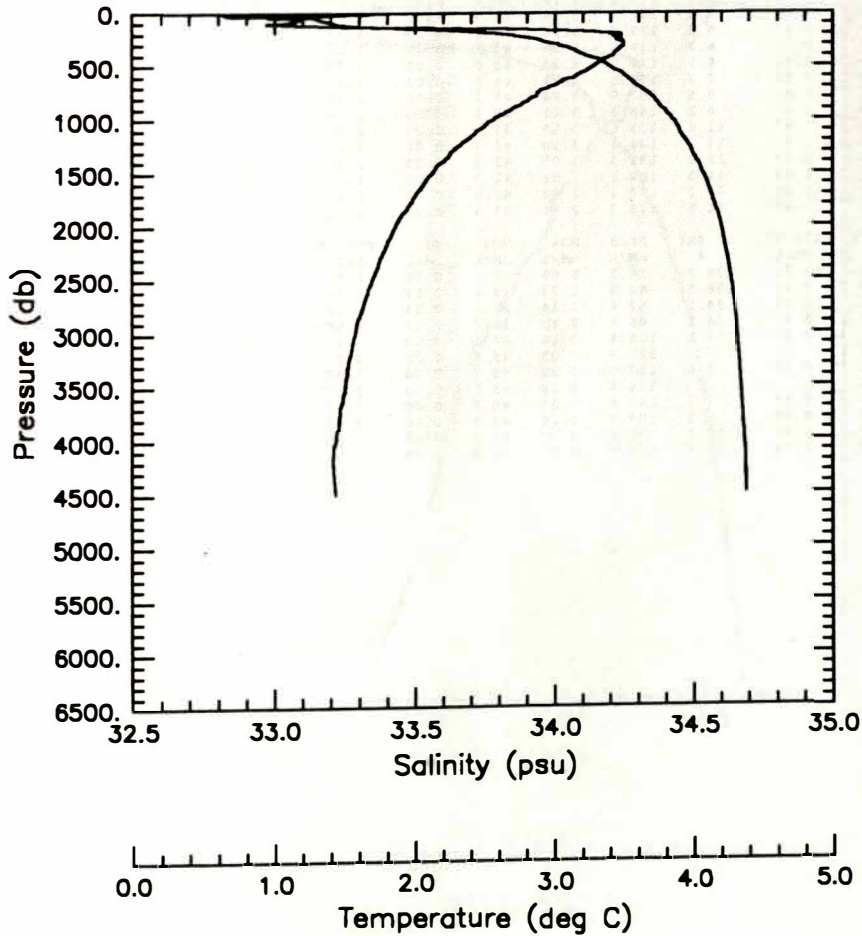
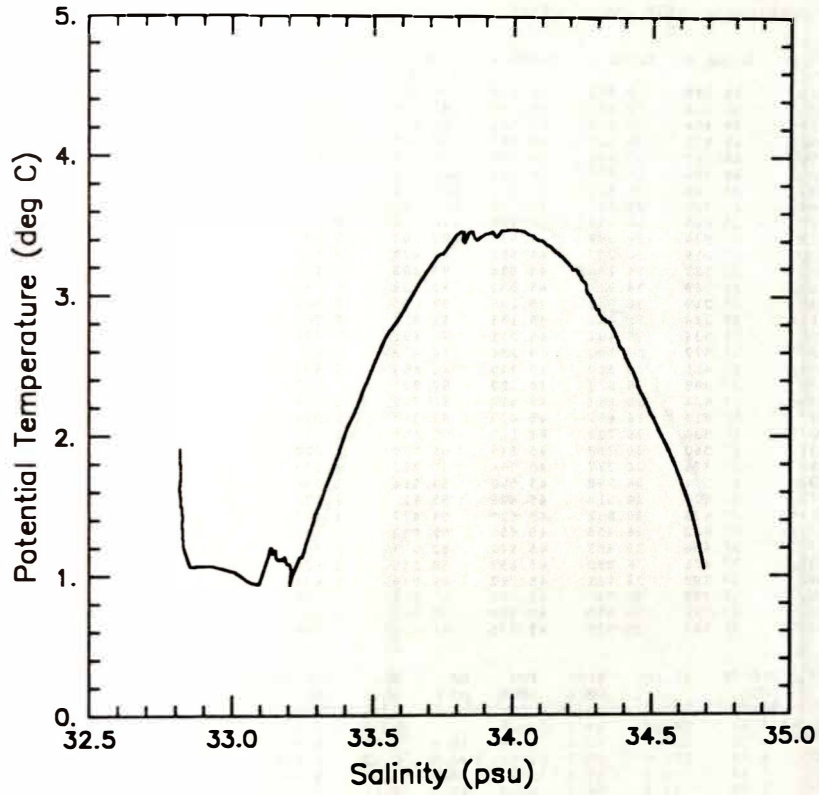
KOROLEV Sta. 3



AKADEMIK KOROLEV SAGA II		STATION 4		START TIME		BOTTOM							
LATITUDE	LONGITUDE	MO/DY/YR	GMT	M									
48 15.0N	155 45.0E	5/12/87	224		4439								
CTD DATA													
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH		
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M		
0	1.908	32.819	1.908	26.231	35.470	44.295	177.705	0.000		1454.8	0		
20	1.444	32.826	1.443	26.270	35.534	44.383	174.096	0.035		1453.1	19		
40	1.039	33.059	1.038	26.483	35.766	44.634	153.870	0.068	4.760	1451.9	39		
60	1.179	33.151	1.176	26.548	35.821	44.680	147.728	0.098		1453.0	59		
80	1.126	33.183	1.123	26.577	35.853	44.714	144.972	0.128		1453.1	79		
100	1.002	33.210	0.997	26.606	35.889	44.757	142.170	0.156		1452.9	99		
150	2.640	33.532	2.632	26.745	35.932	44.709	129.685	0.225	3.320	1461.4	149		
200	3.441	33.817	3.428	26.902	36.041	44.773	115.608	0.286	2.720	1466.0	199		
250	3.444	33.938	3.428	26.998	36.136	44.866	106.862	0.341	1.980	1467.0	248		
300	3.490	34.011	3.470	27.052	36.186	44.913	102.220	0.394	1.950	1468.1	298		
350	3.453	34.069	3.430	27.102	36.237	44.966	97.840	0.444	1.560	1468.8	348		
400	3.415	34.107	3.389	27.136	36.273	45.003	94.989	0.492	1.760	1469.6	397		
450	3.329	34.162	3.299	27.188	36.329	45.062	90.354	0.538	1.440	1470.1	447		
500	3.276	34.191	3.244	27.217	36.360	45.096	87.998	0.583	1.360	1470.7	497		
600	3.139	34.255	3.100	27.281	36.431	45.173	82.502	0.668	1.370	1471.9	596		
700	2.952	34.303	2.907	27.337	36.496	45.247	77.654	0.748	1.490	1472.8	695		
800	2.828	34.354	2.776	27.390	36.555	45.312	73.157	0.823	1.180	1473.9	794		
900	2.694	34.386	2.636	27.428	36.600	45.363	69.954	0.895	1.230	1475.1	893		
1000	2.561	34.421	2.497	27.467	36.647	45.416	66.549	0.963	1.160	1476.2	992		
1100	2.445	34.447	2.374	27.499	36.684	45.460	63.894	1.028	0.880	1477.4	1091		
1200	2.353	34.470	2.276	27.525	36.715	45.496	61.733	1.091	1.060	1478.7	1190		
1300	2.256	34.493	2.172	27.551	36.747	45.532	59.488	1.152	0.790	1479.9	1289		
1400	2.183	34.513	2.093	27.574	36.774	45.563	57.611	1.210	1.030	1481.3	1388		
1500	2.120	34.530	2.022	27.594	36.797	45.590	56.094	1.267	0.910	1482.7	1487		
1600	2.058	34.549	1.954	27.614	36.821	45.616	54.485	1.322	0.740	1484.2	1586		
1700	2.003	34.562	1.891	27.629	36.839	45.638	53.293	1.376	0.740	1485.6	1684		
1800	1.952	34.575	1.833	27.644	36.857	45.659	52.159	1.429	0.760	1487.1	1783		
1900	1.897	34.588	1.770	27.659	36.876	45.680	50.930	1.481	0.710	1488.5	1882		
2000	1.855	34.598	1.721	27.672	36.891	45.698	50.042	1.531	0.620	1490.1	1980		
2100	1.819	34.605	1.677	27.681	36.902	45.711	49.412	1.581	0.620	1491.6	2079		
2200	1.785	34.614	1.635	27.690	36.914	45.725	48.804	1.630	0.590	1493.1	2177		
2300	1.747	34.622	1.589	27.700	36.926	45.740	48.068	1.678	0.560	1494.7	2276		
2400	1.724	34.628	1.558	27.707	36.935	45.750	47.710	1.726	0.550	1496.3	2374		
2500	1.692	34.634	1.517	27.716	36.945	45.762	47.127	1.774	0.510	1497.8	2473		
2600	1.664	34.640	1.481	27.722	36.954	45.773	46.706	1.820	0.410	1499.4	2571		
2700	1.637	34.645	1.445	27.729	36.963	45.783	46.296	1.867	0.500	1501.0	2669		
2800	1.611	34.649	1.415	27.735	36.970	45.792	45.025	1.913	0.540	1502.5	2759		
2900	1.586	34.654	1.377	27.741	36.979	45.803	45.562	1.959	0.440	1504.2	2866		
3000	1.572	34.657	1.354	27.745	36.984	45.809	45.471	2.004	0.490	1505.8	2964		
3100	1.553	34.660	1.326	27.750	36.990	45.817	45.244	2.050	0.420	1507.5	3062		
3200	1.538	34.663	1.301	27.754	36.996	45.824	45.095	2.095	0.500	1509.1	3160		
3300	1.521	34.666	1.275	27.758	37.001	45.831	44.927	2.140	0.440	1510.8	3258		
3400	1.510	34.669	1.254	27.762	37.006	45.836	44.871	2.185	0.450	1512.4	3356		
3500	1.502	34.671	1.236	27.765	37.010	45.841	44.871	2.230	0.330	1514.1	3454		
3600	1.485	34.674	1.209	27.769	37.016	45.848	44.673	2.274	0.370	1515.8	3552		
3700	1.467	34.677	1.181	27.773	37.021	45.856	44.450	2.319	0.390	1517.4	3650		
3800	1.450	34.679	1.163	27.776	37.025	45.860	44.447	2.364	0.350	1519.1	3748		
3900	1.449	34.681	1.142	27.780	37.030	45.866	44.380	2.408	0.660	1520.8	3845		
4000	1.435	34.684	1.118	27.783	37.035	45.872	44.233	2.452	0.450	1522.4	3943		
4100	1.416	34.686	1.089	27.787	37.041	45.879	43.985	2.496	0.290	1524.1	4041		
4200	1.412	34.688	1.074	27.790	37.044	45.883	44.050	2.540	0.290	1525.8	4138		
4300	1.417	34.689	1.067	27.791	37.045	45.885	44.327	2.585	0.140	1527.6	4236		
4400	1.425	34.689	1.064	27.791	37.046	45.886	44.666	2.629	0.150	1529.3	4333		
4504	1.432	34.690	1.059	27.792	37.047	45.887	45.006	2.676		1531.2	4435		

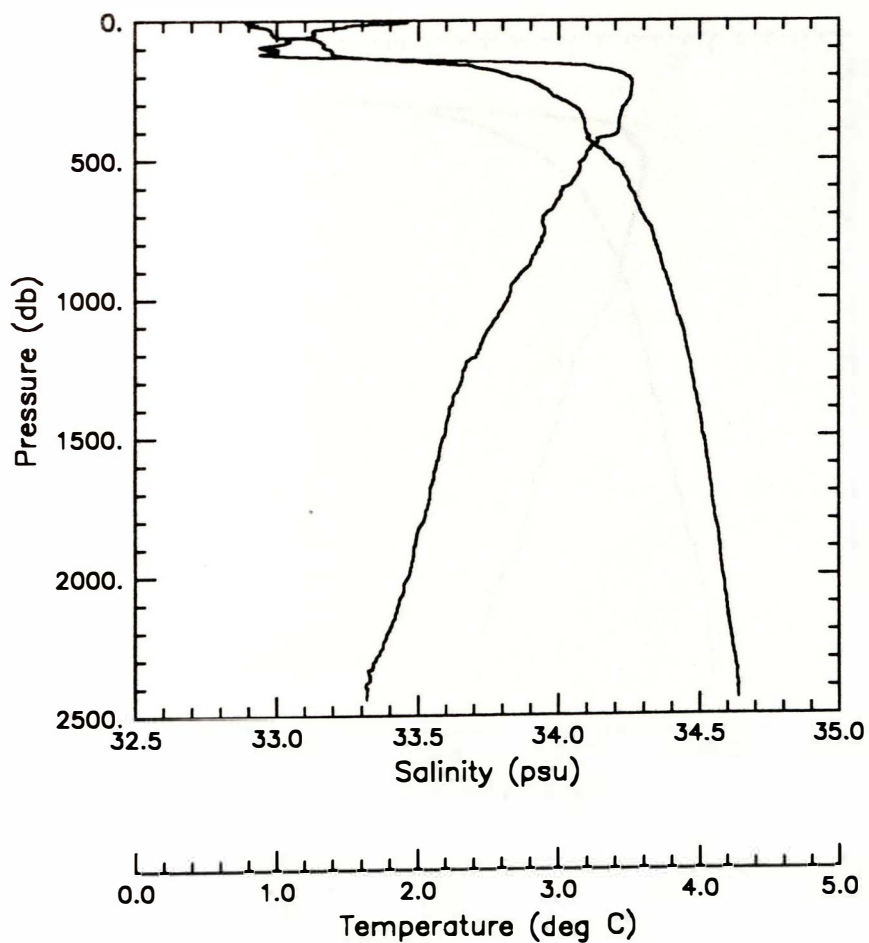
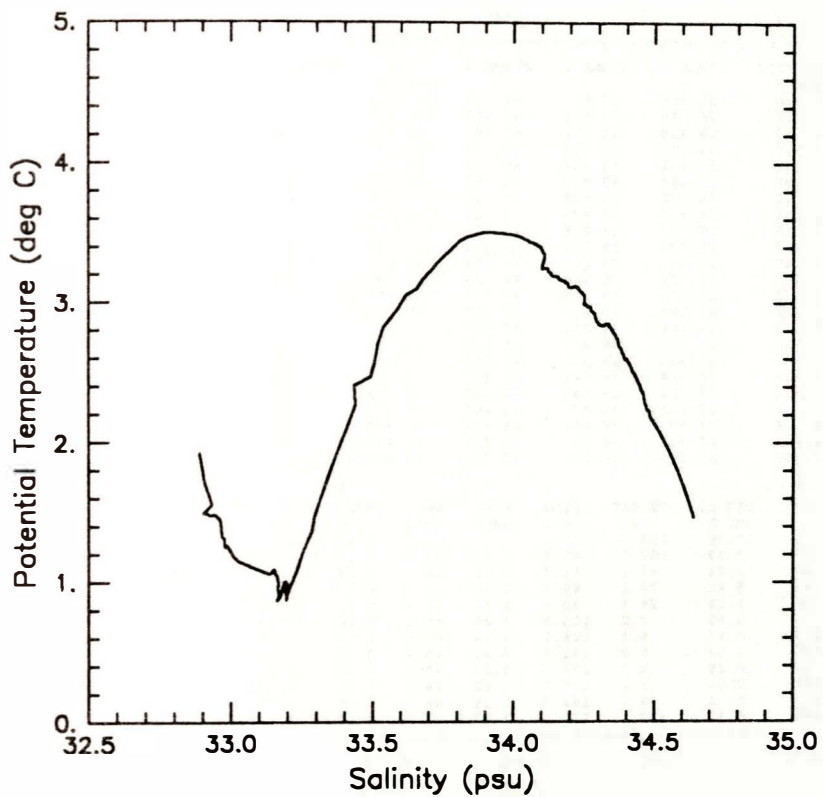
NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L		uM/L	uM/L	uM/L	uM/L	DEG C				DB
	2	2.027	32.826			14.1		0.5		2.027	26.228	35.460	44.279	2
	23	0.845	32.861	8.88	111.3	34.2	1.37	12.3	0.21	0.844	26.335	35.633	44.514	23
	44	1.054	33.093	7.74	97.7	53.3	2.09	24.7	0.24	1.052	26.509	35.791	44.657	44
	73	1.096	33.172	7.50	94.8	58.1	2.20	26.9	0.22	1.092	26.570	35.848	44.711	73
	102	0.993	33.196	7.25	91.4	57.9	2.23	27.6	0.14	0.986	26.596	35.880	44.748	102
	131	1.829	33.360	5.62	72.5	70.6	2.45	31.8	0.02	1.819	26.671	35.905	44.727	131
	159	3.087	33.589	3.36	44.8	87.2	2.81	38.0	0.01	3.069	26.753	35.915	44.669	159
	200	3.376	33.851	1.18	15.9	107.4	3.19	45.1	0.00	3.350	26.936	36.079	44.814	201
	247	3.420	33.933	0.76	10.2	113.8	3.25	46.1	0.00	3.387	26.998	36.137	44.870	248
	298	3.459	34.012	0.58	7.8	120.4	3.25	46.3	0.00	3.419	27.058	36.194	44.924	299
	399	3.388	34.111	0.47	6.3	130.5	3.23	46.2	0.00	3.333	27.145	36.284	45.017	401
	505	3.279	34.190	0.40	5.4	138.8	3.22	46.0	0.00	3.210	27.219	36.364	45.102	508
	604	3.121	34.252	0.37	4.9	146.7	3.22	46.1	0.00	3.033	27.285	36.438	45.184	608
	793	2.858	34.340	0.44	5.8	157.8	3.22	45.6	0.00	2.752	27.380	36.547	45.305	799
	993	2.571	34.410	0.53	7.0	168.4	3.21	45.4	0.00	2.448	27.463	36.645	45.417	1001
	1244	2.305	34.476	0.83	10.9	176.7	3.13	44.6	0.00	2.165	27.539	36.735	45.521	1254
	1487	2.137	34.521	1.10	14.3	179.0	3.09	43.7	0.00	1.955	27.591	36.799	45.595	1500
	1732	1.995	34.561	1.42	18.4	180.2	3.04	42.8	0.00	1.768	27.638	36.855	45.660	1748
	1994	1.859	34.597	1.80	23.3	180.7	2.96	41.8	0.00	1.584	27.681	36.907	45.721	2014
	2469	1.680	34.636	2.43	31.2	171.3	2.79	38.5	0.00	1.357	27.728	36.967	45.793	2497
	2966	1.563	34.656	2.87	36.7	172.7	2.70	39.8	0.00	1.187	27.756	37.004	45.838	3003
	3446	1.502												

KOROLEV Sta. 4



AKADEMIK KOROLEV SAGA II		STATION 5		START TIME	BOTTOM													
LATITUDE	LONGITUDE	MO/DY/YR	START TIME	GMT	M													
48 31.4N	155 29.7E	5/12/87		648	2429													
CTD DATA																		
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH							
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M							
0	1.930	32.888	1.930	26.285	35.521	44.344	172.591	0.000		1455.0	0							
20	1.526	32.925	1.525	26.343	35.601	44.445	167.116	0.034		1453.6	19							
40	1.261	32.979	1.259	26.404	35.676	44.533	161.319	0.067		1452.8	39							
60	1.182	33.030	1.180	26.450	35.726	44.586	156.986	0.099	2.910	1452.8	59							
80	1.057	33.156	1.054	26.560	35.841	44.706	146.567	0.129	3.650	1452.8	79							
100	0.927	33.174	0.923	26.582	35.870	44.742	144.458	0.158	3.020	1452.5	99							
150	2.600	33.501	2.592	26.724	35.913	44.692	131.692	0.228	1.910	1461.2	149							
200	3.475	33.830	3.462	26.908	36.046	44.776	114.991	0.289	3.930	1466.2	199							
250	3.514	33.956	3.498	27.006	36.139	44.866	106.203	0.344	2.750	1467.3	248							
300	3.478	34.037	3.458	27.074	36.208	44.935	100.163	0.395	1.950	1468.1	298							
350	3.434	34.084	3.411	27.116	36.252	44.981	96.498	0.444	2.160	1468.8	348							
400	3.421	34.096	3.395	27.127	36.264	44.994	95.822	0.492	1.080	1469.6	397							
450	3.248	34.127	3.218	27.169	36.314	45.052	92.122	0.539	1.190	1469.7	447							
500	3.181	34.183	3.148	27.219	36.368	45.108	87.635	0.584	1.730	1470.3	497							
600	3.046	34.251	3.007	27.285	36.441	45.188	81.872	0.668	1.310	1471.4	596							
700	2.906	34.297	2.851	27.336	36.498	45.251	77.631	0.748	1.350	1472.6	695							
800	2.876	34.343	2.824	27.377	36.540	45.294	74.472	0.824	1.070	1474.2	794							
900	2.755	34.372	2.697	27.411	36.580	45.340	71.684	0.897	1.270	1475.3	893							
1000	2.643	34.405	2.578	27.448	36.623	45.389	68.557	0.967	1.020	1476.5	992							
1100	2.522	34.437	2.451	27.484	36.665	45.437	65.500	1.034	1.160	1477.7	1091							
1200	2.425	34.459	2.347	27.510	36.697	45.473	63.347	1.098	1.070	1479.0	1190							
1300	2.312	34.479	2.227	27.536	36.729	45.512	61.104	1.160	0.830	1480.2	1289							
1400	2.225	34.499	2.134	27.560	36.758	45.545	59.098	1.220	0.850	1481.5	1388							
1500	2.181	34.514	2.083	27.576	36.777	45.566	57.962	1.279	0.970	1483.0	1487							
1600	2.127	34.531	2.022	27.594	36.798	45.590	56.584	1.336	0.800	1484.4	1586							
1700	2.085	34.543	1.972	27.608	36.814	45.609	55.611	1.392	0.510	1485.9	1684							
1800	2.037	34.557	1.917	27.623	36.832	45.629	54.477	1.447	0.970	1487.4	1783							
1900	1.970	34.573	1.843	27.642	36.855	45.656	52.892	1.501	0.610	1488.8	1882							
2000	1.932	34.583	1.797	27.654	36.869	45.672	52.075	1.553	0.930	1490.4	1980							
2100	1.863	34.598	1.720	27.671	36.890	45.697	50.556	1.605	0.730	1491.8	2079							
2200	1.792	34.612	1.642	27.688	36.911	45.722	49.036	1.654	0.910	1493.2	2177							
2300	1.702	34.628	1.545	27.708	36.937	45.752	47.072	1.703	0.960	1494.5	2276							
2400	1.639	34.639	1.474	27.722	36.955	45.774	45.801	1.749	0.420	1495.9	2374							
2442	1.638	34.639	1.470	27.723	36.955	45.775	45.904	1.768		1496.6	2416							
NISKIN BOTTLE DATA																		
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS				
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB				
	2	1.925	32.896	10.70	137.9	19.0			0.14	1.925	26.292	35.528	44.351	2				
	24	1.525	32.941	9.42	120.2	28.1			0.24	1.524	26.356	35.614	44.457	24				
	43	1.251	32.985	8.50	107.7	42.0	1.64	18.8	0.22	1.249	26.410	35.682	44.540	43				
	63	1.135	33.046	8.02	101.4	48.2	1.89	22.3	0.22	1.132	26.466	35.744	44.607	63				
	83	1.049	33.164	7.49	94.5	55.4	2.19	26.9	0.25	1.045	26.566	35.848	44.713	83				
	103	0.948	33.180	7.46	93.9	56.0	2.19	27.3	0.22	0.943	26.586	35.872	44.743	103				
	123	0.899	33.209	7.15	89.9	58.1	2.23	28.2	0.04	0.892	26.612	35.901	44.774	123				
	142	2.206	33.425	5.01	65.3	73.0	2.50	33.5	0.01	2.195	26.695	35.907	44.708	142				
	172	3.285	33.725	2.23	29.9	95.4	2.97	40.8	0.01	3.269	26.843	35.992	44.734	173				
	221	3.518	33.901	0.98	13.2	110.1	3.16	44.8	0.00	3.498	26.962	36.096	44.823	222				
	299	3.480	34.036	0.56	7.6	121.9	3.24	45.4	0.00	3.453	27.074	36.208	44.936	300				
	402	3.420	34.099	0.47	6.3	129.5	3.24	45.4	0.00	3.386	27.130	36.267	44.997	404				
	499	3.178	34.183	0.51	6.8	139.6	3.24	45.1	0.00	3.138	27.220	36.369	45.110	502				
	596	3.029	34.250	0.52	6.9	147.5	3.23	45.0	0.00	2.976	27.289	36.445	45.193	600				
	695	2.905	34.298	0.55	7.3	153.6	3.21	44.6	0.00	2.838	27.339	36.502	45.257	700				
	789	2.885	34.341	0.41	5.5	157.7	3.24	45.1	0.00	2.799	27.377	36.542	45.297	794				
	988	2.648	34.404	0.47	6.2	168.8	3.21	45.1	0.00	2.545	27.450	36.627	45.394	995				
	1240	2.339	34.472	0.87	11.4	175.6	3.15	43.8	0.00	2.219	27.531	36.725	45.508	1250				
	1486	2.181	34.515	1.07	14.0	180.4	3.10	43.3	0.00	2.041	27.580	36.783	45.574	1499				
	1728	2.067	34.549	1.29	16.8	182.0	3.05	42.7	0.00	1.886	27.619	36.830	45.629	1744				
	1977	1.932	34.585	1.62	21.0	182.4	3.01	41.9	0.00	1.706	27.662	36.882	45.690	1997				
	2271	1.703	34.630	2.27	29.2	178.4	2.85	40.0	0.00	1.433	27.718	36.953	45.774	2296				
	2409	1.639	34.641	2.48	31.8	175.5	2.83	39.4	0.00	1.319	27.735	36.976	45.803	2436				
CAST 2	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS				
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB				
	12	1.996	32.873	10.71	138.3	16.9	0.69	1.1	0.05	1.996	26.268	35.500	44.320	12				
	42	1.239	33.002	8.25	104.5	42.8	1.73	19.6	0.13	1.238	26.424	35.697	44.555	42				
	81	1.131	33.176	7.44	94.1	53.6	2.14	27.1	0.24	1.129	26.571	35.847	44.708	81				
	141	1.692	33.339	5.77	74.1	66.8	2.40	31.7	0.02	1.689	26.664	35.906	44.734	141				
	204	3.495	33.857	1.27	17.1	104.4	3.10	44.1	0.00	3.490	26.927	36.063	44.791	205				
	301	3.477	34.044			121.6	3.23	45.8	0.00	3.470	27.078	36.212	44.938	302				
	396	3.382	34.124	0.55	7.4	130.0	3.22	45.7	0.00	3.374	27.151	36.288	45.019	398				
	494	3.158	34.190			139.4	3.18	45.1	0.00	3.149	27.225	36.373	45.113	497				
	591	3.050	34.262	0.59	7.9	147.6	3.20	45.3	0.00	3.039	27.292	36.445	45.190	595				
	791	2.851	34.348	0.39	5.2	157.9	3.18	45.3	0.00	2.838	27.379	36.541	45.295	797				
	1095	2.478	34.446	0.87	11.5	173.4	3.17	44.8	0.00	2.461	27.490	36.671	45.442	1104				
	1532	2.137	34.527	1.32	17.3	179.5	3.05	43.2	0.00	2.114	27.584	36.782	45.570	1546				

KOROLEV Sta. 5

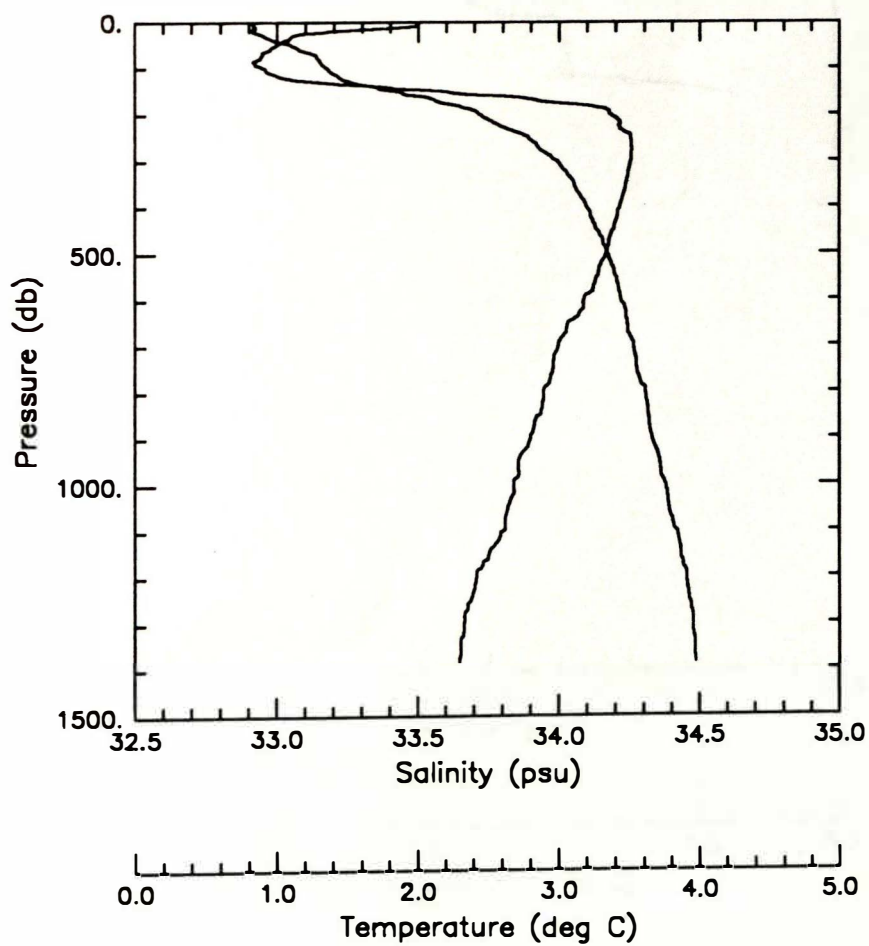
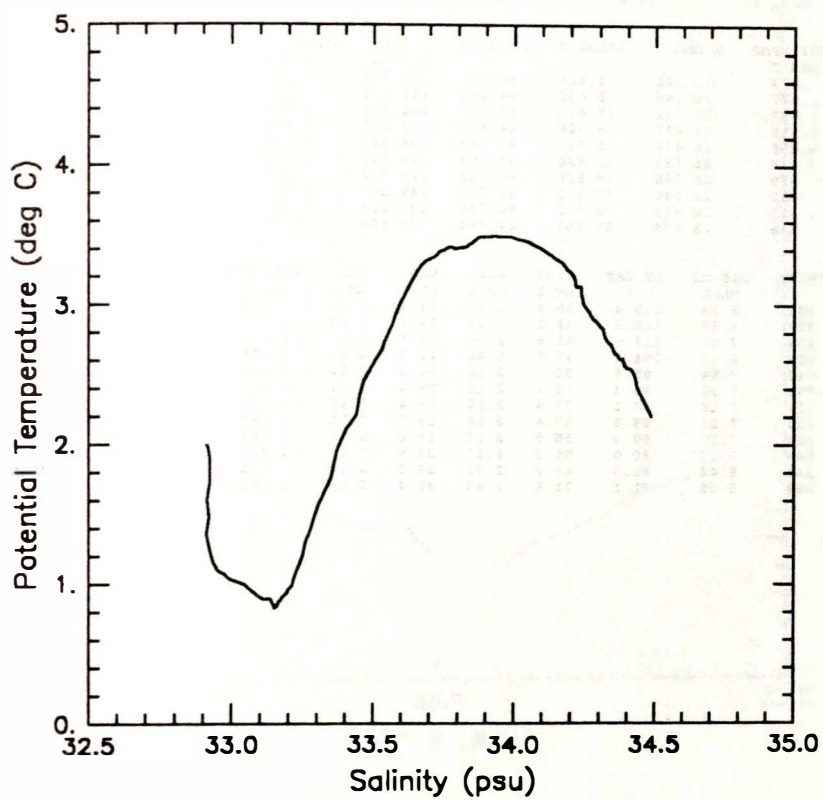


AKADEMIK KOROLEV SAGA II STATION 6
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 48 40.5N 155 22 3E 5/12/87 1200 1381

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	1.996	32.913	1.996	26.300	35.532	44.351	171.182	0.000		1455.3	0
20	1.417	32.922	1.416	26.348	35.612	44.462	166.654	0.034		1453.1	19
40	1.051	32.992	1.050	26.428	35.712	44.580	159.067	0.066	3.550	1451.9	39
60	0.939	33.032	0.937	26.507	35.796	44.669	151.533	0.097	3.220	1451.8	59
80	0.865	33.144	0.861	26.562	35.854	44.730	146.314	0.127	2.410	1451.9	79
100	0.899	33.174	0.895	26.584	35.873	44.747	144.268	0.156	2.000	1452.4	99
150	2.149	33.416	2.141	26.692	35.908	44.711	134.509	0.226	2.980	1459.1	149
200	3.366	33.719	3.353	26.831	35.976	44.713	122.258	0.290	2.640	1465.6	199
250	3.504	33.889	3.488	26.953	36.088	44.816	111.191	0.349	2.510	1467.2	248
300	3.507	33.989	3.487	27.033	36.166	44.893	104.009	0.403	2.190	1468.2	298
350	3.471	34.054	3.448	27.088	36.223	44.950	99.171	0.453	1.600	1468.9	348
400	3.427	34.098	3.401	27.128	36.264	44.994	95.757	0.502	1.570	1469.6	397
450	3.382	34.134	3.352	27.161	36.299	45.030	92.991	0.549	1.550	1470.3	447
500	3.335	34.171	3.302	27.195	36.335	45.069	90.111	0.595	1.430	1470.9	497
600	3.180	34.218	3.140	27.248	36.397	45.137	85.631	0.683	1.370	1472.0	596
700	2.997	34.264	2.951	27.302	36.459	45.208	81.024	0.766	1.250	1472.9	695
800	2.895	34.306	2.843	27.345	36.508	45.262	77.433	0.846	1.240	1474.2	794
900	2.797	34.331	2.738	27.374	36.542	45.301	75.149	0.922	1.280	1475.4	893
1000	2.680	34.377	2.615	27.422	36.596	45.360	71.049	0.995	1.250	1476.7	992
1100	2.604	34.415	2.532	27.460	36.637	45.405	67.947	1.065	1.400	1478.0	1091
1200	2.414	34.454	2.336	27.507	36.694	45.472	63.595	1.131	1.000	1478.9	1190
1300	2.331	34.477	2.246	27.533	36.725	45.507	61.447	1.193	0.630	1480.3	1289
1384	2.298	34.486	2.207	27.543	36.737	45.521	60.853	1.244		1481.5	1372

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
2	1.996	32.916	10.36	133.8	21.1		5.7	0.22	1.995	26.303	35.534	44.353	2
41	1.039	32.974	8.09	102.0	47.8	1.93	21.5	0.19	1.037	26.414	35.699	44.568	41
80	0.869	33.142	7.44	93.4	53.7	2.15	26.7	0.19	0.866	26.560	35.852	44.727	80
143	1.777	33.348	5.68	73.1	66.8	2.43	31.5	0.02	1.770	26.665	35.902	44.726	143
204	3.382	33.720	2.19	29.4	92.6	2.91	40.6	0.01	3.369	26.830	35.974	44.710	205
303	3.502	33.995	0.53	7.2	115.8	3.26	46.0	0.00	3.482	27.038	36.172	44.899	304
402	3.421	34.096	0.47	6.3	126.1	3.24	45.5	0.00	3.395	27.127	36.264	44.993	404
501	3.328	34.170	0.43	5.8	132.3	3.21	45.4	0.00	3.295	27.195	36.336	45.069	504
603	3.169	34.233	0.38	5.1	139.6	3.22	45.1	0.00	3.130	27.261	36.409	45.150	607
794	2.894	34.285	0.63	9.4	150.1	3.18	44.7	0.00	2.942	27.329	36.492	45.246	800
1083	2.621	34.406	0.51	6.7	162.2	3.18	44.7	0.00	2.549	27.451	36.628	45.395	1091
1368	2.301	34.484	0.81	10.6	174.1	3.13	43.7	0.00	2.198	27.542	36.737	45.521	1380

KOROLEV Sta. 6



AKADEMIK KOROLEV SAGA II STATION 7
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 48 50 CN 155 11.0E 5/12/87 GMT 1442 M 269

CTD DATA

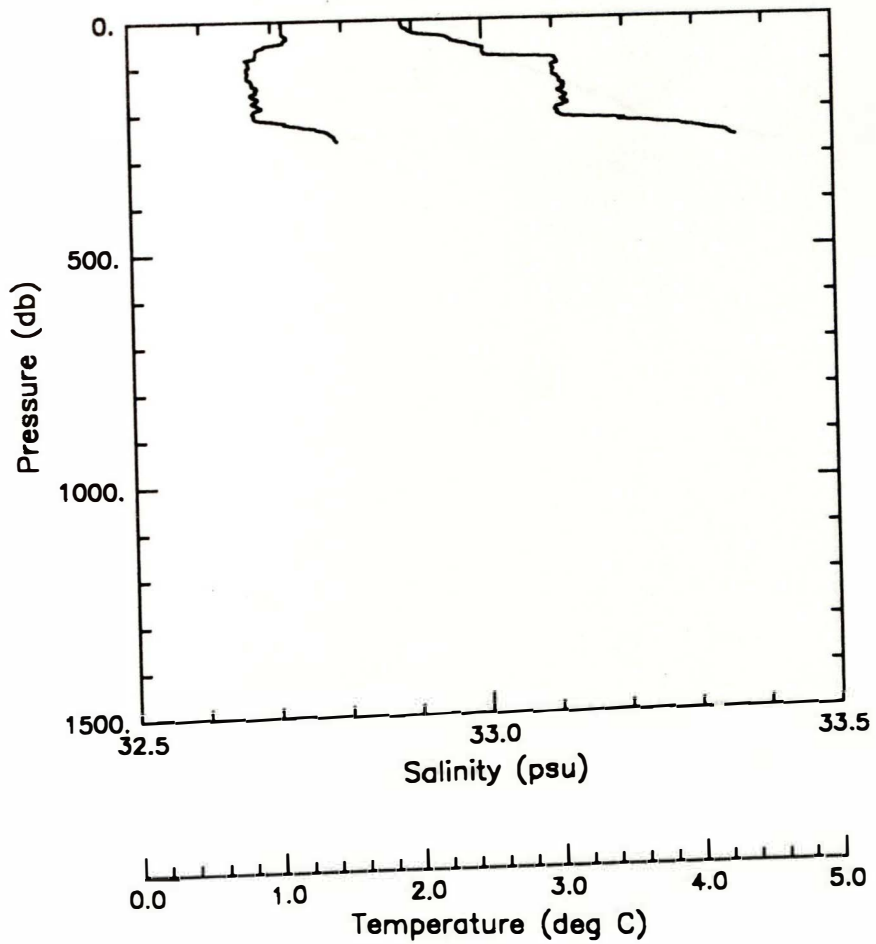
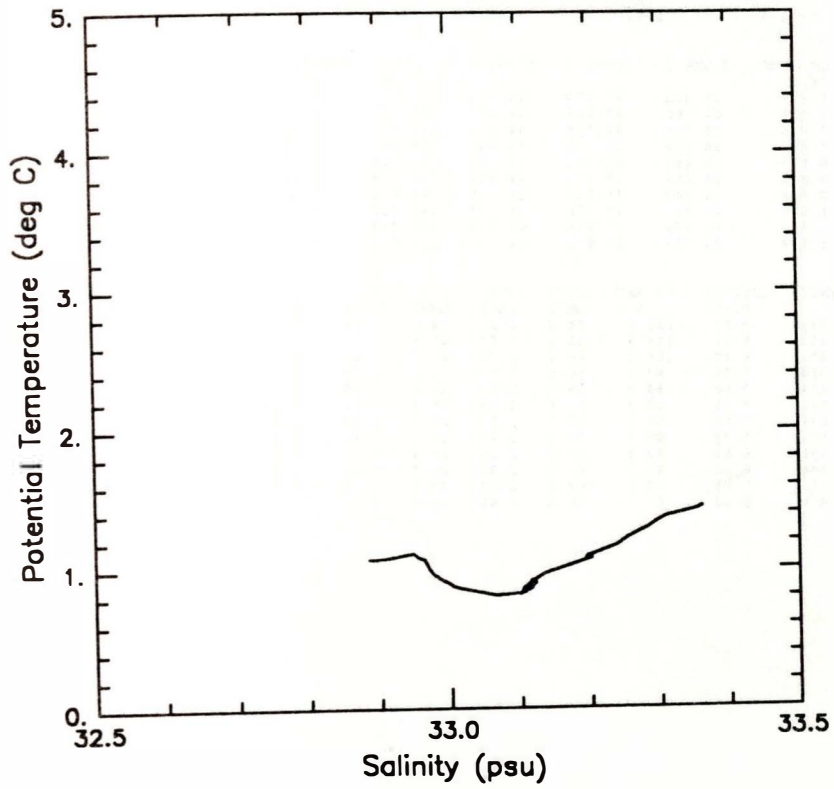
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
0	1.074	32.886	1.074	26.341	35.625	44.494	167.284	0.000		1451.2	0
20	1.078	32.892	1.077	26.346	35.630	44.498	166.861	0.033		1451.6	19
40	1.039	32.949	1.097	26.391	35.672	44.539	162.595	0.066	2.610	1452.0	39
60	0.918	32.993	0.915	26.437	35.728	44.604	158.178	0.099	2.650	1451.6	59
80	0.861	33.040	0.858	26.478	35.772	44.649	154.294	0.130	2.880	1451.7	79
100	0.838	33.103	0.834	26.530	35.824	44.702	149.343	0.160	1.800	1452.0	99
150	0.885	33.114	0.879	26.536	35.828	44.703	148.753	0.235	0.570	1453.1	149
200	0.870	33.105	0.862	26.530	35.823	44.700	149.267	0.309	1.730	1453.8	199
250	1.424	33.339	1.413	26.683	35.940	44.784	135.229	0.380	3.180	1457.4	248
262	1.458	33.360	1.446	26.698	35.953	44.794	133.886	0.396		1457.8	260

NISKIN BOTTLE DATA

CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 μM/L	PO4 μM/L	NO3 μM/L	NO2 μM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
	1	1.074	32.892	9.39	118.4	38.9	1.38	13.4	0.15	1.074	26.346	35.630	44.499	1
	20	1.077	32.899	9.38	118.3	38.1	1.38	14.2	0.15	1.075	26.352	35.635	44.504	20
	40	1.108	32.954	9.00	113.6	41.6	1.56	16.6	0.15	1.105	26.394	35.675	44.541	40
	61	0.892	33.005	8.05	101.1	47.6	1.86	21.7	0.13	0.886	26.448	35.741	44.618	61
	81	0.851	33.042	7.64	95.8	52.0	2.00	24.0	0.12	0.843	26.481	35.775	44.654	81
	100	0.829	33.099	7.20	90.3	55.0	2.16	25.4	0.11	0.816	26.528	35.823	44.702	100
	125	0.860	33.113	7.18	90.1	55.4	2.19	26.4	0.11	0.843	26.538	35.831	44.709	125
	155	0.862	33.110	7.16	89.9	55.4	2.18	25.7	0.11	0.840	26.535	35.829	44.707	155
	184	0.891	33.122	7.17	90.0	56.9	2.18	26.6	0.12	0.864	26.544	35.836	44.712	185
	204	0.869	33.109	7.17	90.0	56.3	2.17	26.6	0.11	0.832	26.535	35.830	44.708	205
	224	1.188	33.244	6.42	81.3	63.2	2.31	29.2	0.10	1.131	26.625	35.900	44.760	225
	259	1.462	33.368	5.58	71.1	71.6	2.44	31.4	0.08	1.383	26.708	35.967	44.811	260



KOROLEV Sta. 7



AKADEMIK KOROLEV SAGA II STATION 8
 LATITUDE LONGITUDE MO/DY/YR START TIME
 49 0.1N 155 1.7E 5/12/87 2142
 BOTTOM M 287

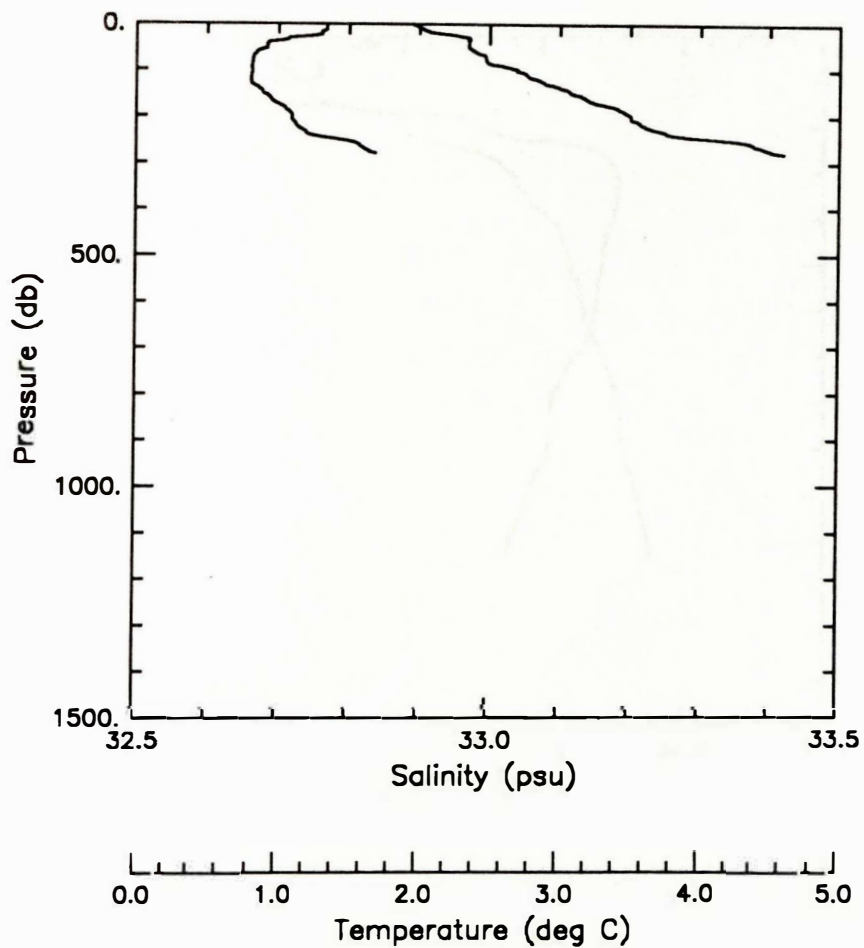
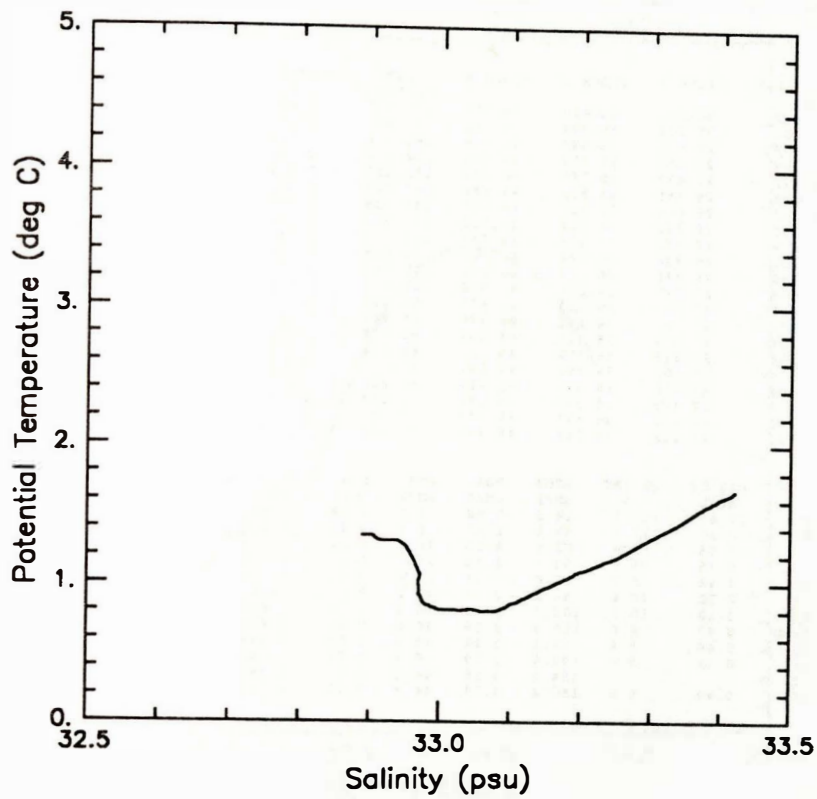
CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
0	1.344	32.989	1.344	26.326	35.595	44.449	158.717	0.000		1452.4	0
20	1.295	32.929	1.295	26.362	35.632	44.488	165.357	0.033		1452.6	19
40	0.961	32.970	0.959	26.416	35.705	44.579	160.175	0.066	2.200	1451.3	39
60	0.859	32.980	0.857	26.430	35.725	44.603	158.863	0.098	1.690	1451.5	59
80	0.818	32.997	0.815	26.446	35.743	44.624	157.319	0.129	1.920	1451.5	79
100	0.815	33.039	0.811	26.480	35.777	44.657	154.048	0.161	2.100	1451.9	99
150	0.902	33.120	0.896	26.540	35.830	44.705	148.402	0.236	1.870	1453.2	149
200	1.098	33.200	1.089	26.592	35.871	44.733	143.529	0.309	1.540	1455.0	199
250	1.432	33.331	1.420	26.676	35.934	44.776	135.853	0.380	2.670	1457.5	248
280	1.689	33.421	1.676	26.730	35.972	44.799	131.015	0.420		1459.2	278

NISKIN BOTTLE DATA

CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
	2	1.243	32.891	9.62	121.8	31.4	1.17	12.2	0.18	1.243	26.335	35.609	44.468	2
	22	0.894	32.915	8.72	109.4	40.6	1.58	17.4		0.893	26.375	35.670	44.547	22
	45	0.996	32.973	8.30	104.5	46.2	1.74	20.0	0.14	0.994	26.416	35.703	44.575	45
	64	0.827	33.010	7.76	97.3	50.4	1.91	23.1	0.13	0.825	26.456	35.752	44.632	64
	83	0.852	33.024	7.69	96.5	52.4	1.95	23.6	0.12	0.849	26.466	35.761	44.639	83
	107	0.836	33.094	7.13	89.4	55.9	2.14	26.5	0.11	0.832	26.523	35.818	44.696	107
	128	0.910	33.125	7.10	89.3	57.1	2.17	27.1	0.11	0.905	26.544	35.834	44.707	128
	165	1.034	33.176	6.78	85.5	59.8	2.23	28.1	0.10	1.027	26.577	35.859	44.725	165
	198	1.091	33.198	6.61	83.8	60.6	2.24	28.4	0.10	1.083	26.591	35.870	44.733	198
	225	1.185	33.246	6.42	81.3	63.8	2.31	29.5	0.10	1.176	26.624	35.896	44.754	225
	244	1.380	33.313	5.93	75.6	68.5	2.39	30.8	0.09	1.370	26.665	35.925	44.771	244
	278	1.680	33.408	5.22	67.1	76.3	2.48	32.5	0.07	1.667	26.721	35.953	44.791	278

KOROLEV Sta. 8



AKADEMIK KOROLEV SAGA II
 LATITUDE LONGITUDE

 STATION
 MO/DY/YR

9

 START TIME
 GMT

 BOTTOM
 M

48 42.8N 155 17.6E 5/13/87

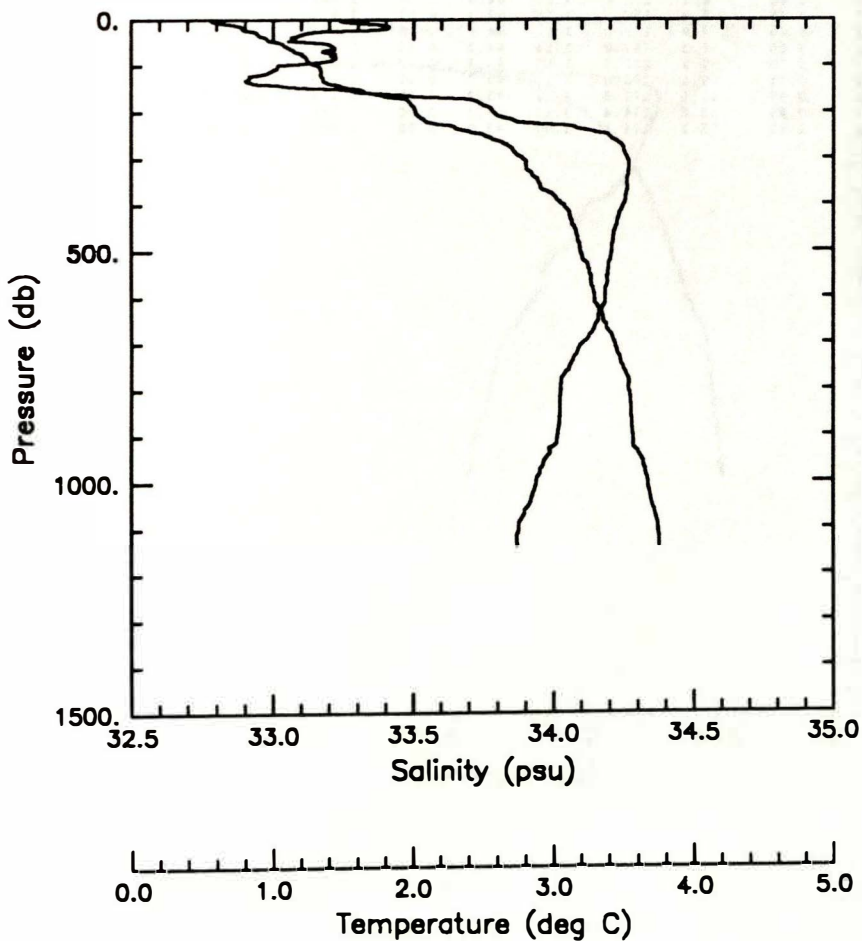
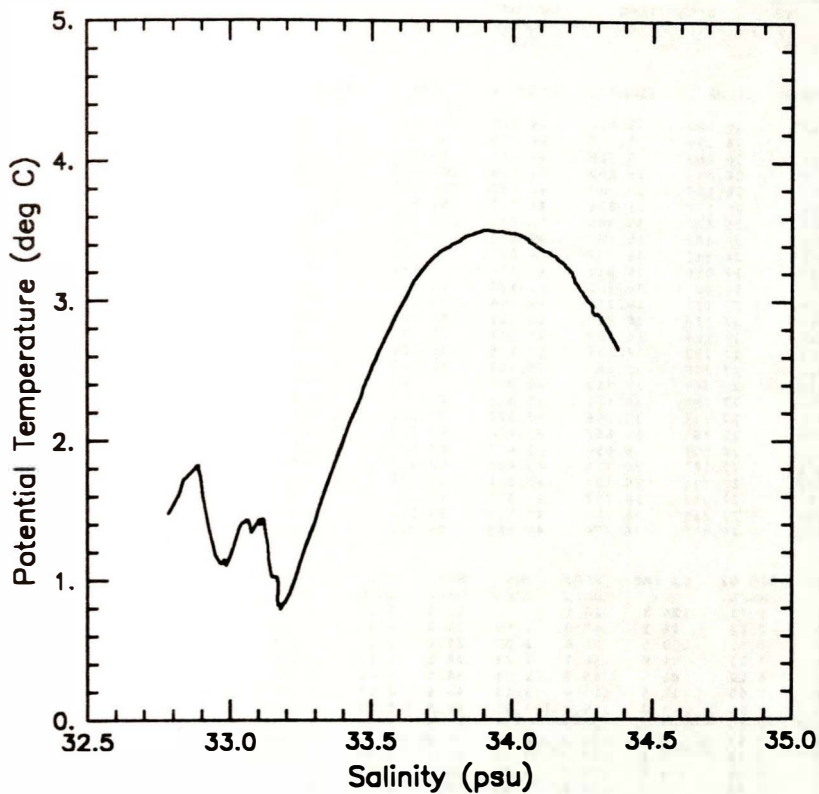
48 1136

CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	1.482	32.781	1.482	26.231	35.493	44.342	177.777	0.000		1452.9	0
20	1.704	32.894	1.703	26.306	35.555	44.390	170.622	0.035		1454.3	19
40	1.151	32.970	1.149	26.404	35.683	44.546	161.326	0.068	3.320	1452.3	39
60	1.411	33.050	1.408	26.452	35.714	44.562	156.862	0.100	2.710	1453.9	59
80	1.426	33.108	1.422	26.497	35.758	44.604	152.595	0.131	2.730	1454.4	79
100	1.080	33.152	1.076	26.555	35.834	44.698	147.065	0.161	2.670	1453.2	99
150	1.374	33.287	1.367	26.644	35.905	44.751	138.738	0.232	2.850	1455.5	149
200	2.566	33.507	2.555	26.731	35.922	44.703	131.221	0.299	1.550	1461.9	199
250	3.370	33.745	3.354	26.851	35.996	44.733	120.673	0.363	3.060	1466.4	248
300	3.520	33.887	3.501	26.950	36.084	44.812	111.848	0.421	1.820	1468.1	298
350	3.521	33.944	3.498	26.996	36.129	44.856	107.917	0.476	1.880	1469.0	348
400	3.496	34.030	3.470	27.067	36.201	44.928	101.554	0.528	2.050	1469.8	397
450	3.439	34.073	3.409	27.107	36.243	44.973	98.123	0.578	1.340	1470.4	447
500	3.412	34.095	3.379	27.128	36.265	44.996	96.542	0.627	1.180	1471.2	497
600	3.365	34.146	3.324	27.174	36.313	45.046	92.924	0.721	1.070	1472.7	596
700	3.213	34.218	3.166	27.245	36.392	45.131	86.701	0.811	1.570	1473.8	695
803	3.052	34.267	2.999	27.300	36.455	45.202	81.977	0.895	0.760	1474.8	794
900	3.028	34.282	2.968	27.315	36.471	45.219	81.222	0.977	0.870	1476.4	893
1000	2.876	34.335	2.809	27.372	36.536	45.291	76.252	1.056	1.080	1477.4	992
1100	2.749	34.372	2.675	27.412	36.583	45.344	72.763	1.130	0.890	1478.6	1091
1140	2.736	34.375	2.660	27.416	36.588	45.350	72.620	1.159		1479.2	1131

NISKIN BOTTLE DATA

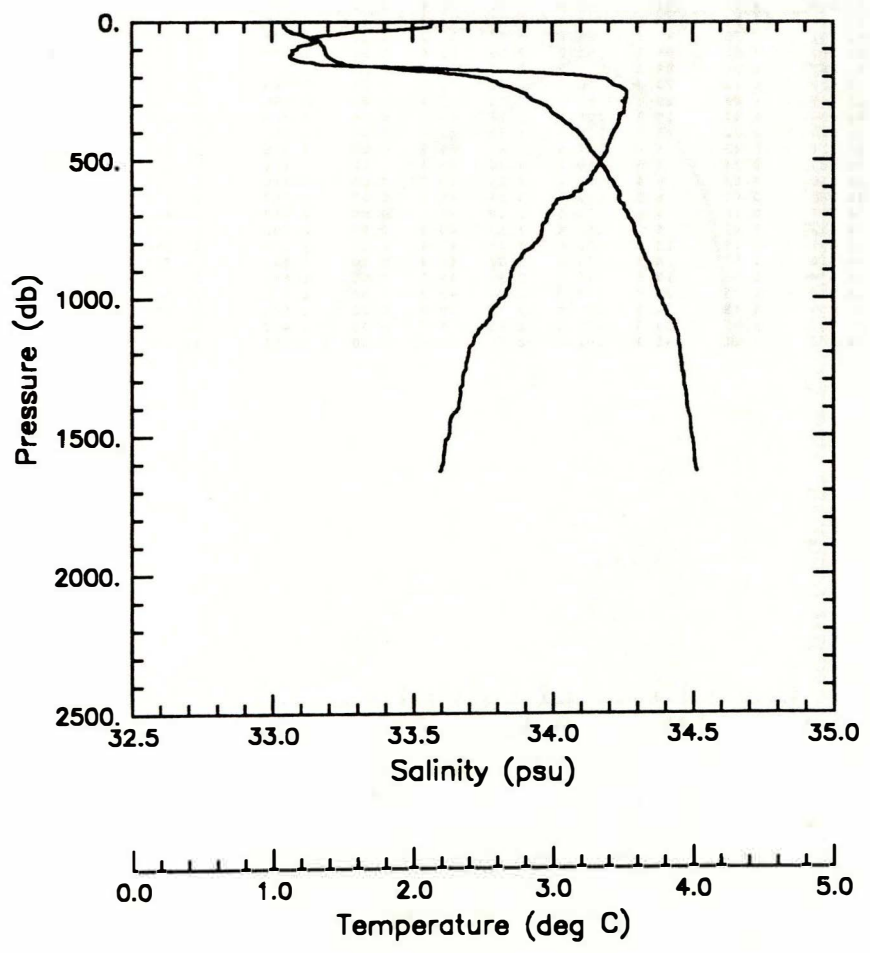
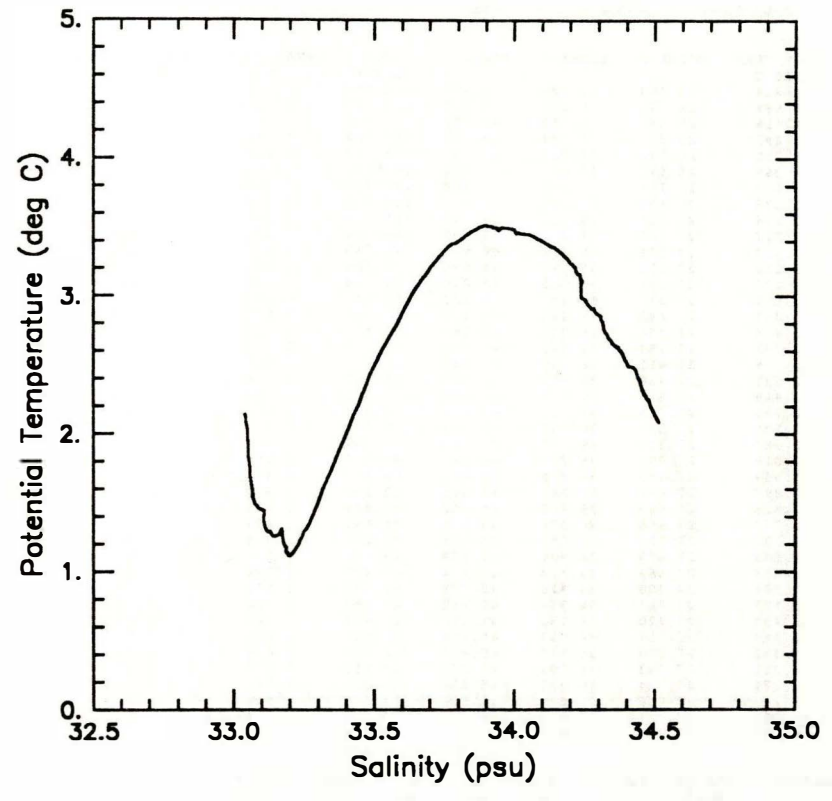
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB
4	1.864	32.873	10.41	133.9	14.2	0.52	1.1	0.06	1.864	26.278	35.517	44.344	4	
55	1.101	32.973	8.50	107.3	38.9	1.60	16.5	0.21	1.100	26.409	35.691	44.556	55	
102	1.095	33.143	7.55	95.4	52.1	2.10	26.2	0.22	1.093	26.546	35.825	44.689	102	
154	1.202	33.251	6.75	85.6	59.6	2.28	29.4	0.05	1.199	26.626	35.897	44.753	154	
203	2.946	33.582	3.44	45.7	83.0	2.74	37.6	0.01	2.941	26.758	35.928	44.688	204	
255	3.362	33.732	2.20	29.6	94.2	2.93	41.1	0.00	3.355	26.840	35.985	44.722	256	
299	3.499	33.855	1.12	15.1	103.7	3.14	44.3	0.00	3.491	26.926	36.061	44.790	300	
392	3.508	34.010D	0.47	6.4	115.5	3.25	46.1	0.00	3.497	27.049	36.181	44.907	394	
500	3.397	34.113	0.44	5.9	127.1	3.24	45.5	0.00	3.384	27.141	36.278	45.008	503	
743	3.124	34.234	0.42	5.6	142.6	3.19	45.3	0.00	3.110	27.264	36.413	45.155	748	
1009	2.863	34.323			154.3	3.18	44.8	0.00	2.848	27.358	36.520	45.274	1017	
1128	2.737	34.375	0.49	6.5	160.4	3.18	44.9	0.00	2.720	27.411	36.579	45.339	1137	



AKADEMIK KOROLEV SAGA II		STATION 10		START TIME		BOTTOM							
LATITUDE	LONGITUDE	MO/DY/YR	GMT	M									
48 35 0N	155 25.0E	5/13/87	348	1613									
CTD DATA	PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
DB	DEG C	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M	
0	2.143	33.042	2.143	26.392	35.614	44.423	162.431	0.000			1456.2	0	
20	2.082	33.043	2.081	26.398	35.623	44.435	161.973	0.032			1456.2	19	
40	1.550	33.075	1.548	26.462	35.716	44.556	155.860	0.064		3.220	1454.2	39	
60	1.281	33.142	1.278	26.534	35.802	44.655	149.063	0.095		2.790	1453.4	59	
80	1.263	33.174	1.265	26.560	35.828	44.682	146.588	0.124		1.890	1453.8	79	
100	1.168	33.187	1.164	26.577	35.851	44.710	144.942	0.153		1.400	1453.6	99	
150	1.296	33.250	1.290	26.620	35.886	44.737	140.985	0.225		2.870	1455.1	149	
200	3.282	33.726	3.270	26.843	35.993	44.734	121.010	0.291		3.230	1465.2	199	
250	3.517	33.878	3.501	26.943	36.077	44.805	112.137	0.349		2.250	1467.2	248	
300	3.514	33.969	3.495	27.016	36.149	44.876	105.630	0.403		2.070	1468.2	298	
350	3.476	34.028	3.453	27.067	36.202	44.930	101.119	0.455		1.880	1468.9	348	
400	3.435	34.090	3.408	27.121	36.257	44.986	96.460	0.505		1.690	1469.6	397	
450	3.394	34.126	3.364	27.154	36.292	45.022	93.682	0.552		1.340	1470.3	447	
500	3.349	34.165	3.316	27.189	36.329	45.061	90.681	0.598		1.500	1471.0	497	
550	3.202	34.226	3.163	27.252	36.399	45.138	85.320	0.686		1.460	1472.1	596	
600	2.967	34.269	2.922	27.308	36.467	45.218	80.345	0.769		1.310	1472.8	695	
700	2.894	34.310	2.832	27.349	36.512	45.267	77.061	0.848		1.230	1474.1	794	
800	2.712	34.351	2.654	27.398	36.570	45.333	72.743	0.923		1.120	1475.1	893	
900	2.646	34.384	2.581	27.431	36.606	45.372	70.161	0.994		1.280	1476.5	992	
1000	2.508	34.436	2.436	27.485	36.667	45.440	65.352	1.062		1.300	1477.6	1091	
1100	2.401	34.454	2.323	27.508	36.696	45.475	63.422	1.126		0.690	1478.9	1190	
1200	2.356	34.467	2.271	27.523	36.714	45.495	62.435	1.189		0.600	1480.3	1289	
1300	2.324	34.479	2.232	27.536	36.729	45.511	61.676	1.251		0.920	1481.9	1388	
1400	2.256	34.495	2.157	27.555	36.752	45.537	60.211	1.312		0.890	1483.3	1487	
1500	2.215	34.507	2.108	27.568	36.767	45.556	59.330	1.371		0.540	1484.8	1586	
1628	2.191	34.513	2.083	27.575	36.776	45.565	58.711	1.388			1485.2	1613	

NISKIN BOTTLE DATA															
CAS 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS	
M	DEG C	DEG C		ML/L	a	UM/L	UM/L	UM/L	UM/L	DEG C				DB	
2	2.170	33.020	9.73	126.3	26.5	11.4	0.24	2.170	26.373	35.593	44.401	2			
56	1.368	33.125	7.82	99.5	47.5	1.99	23.2	0.21	1.366	26.514	35.778	44.627	56		
102	1.323	33.160	7.91	100.5	51.6	2.07	25.2	0.21	1.318	26.546	35.811	44.662	102		
151	1.168	33.216	7.23	91.6	56.7	2.22	28.1	0.18	1.161	26.601	35.874	44.733	151		
200	3.015	33.626	3.12	41.5	85.7	2.78	38.1	0.01	3.003	26.788	35.953	44.710	201		
257	3.517	33.944	0.85	11.5	110.4	3.19	44.4	0.00	3.500	26.996	36.129	44.856	258		
304	3.493	34.019	0.61	9.2	115.4	3.21	44.9	0.00	3.473	27.052	36.192	44.919	305		
346	3.454	34.067	0.53	7.2	120.8	3.24	45.3	0.00	3.428	27.101	36.236	44.964	348		
396	3.418	34.080	0.43	5.8	124.2	3.23	45.2	0.00	3.384	27.115	36.253	44.983	398		
450	3.388	34.132	0.38	5.1	127.3	3.21	45.0	0.00	3.337	27.161	36.300	45.032	452		
497	3.334	34.170	0.36	4.8	131.7	3.20	44.9	0.00	3.263	27.198	36.341	45.076	500		
545	3.280	34.195	0.35	4.7	135.0	3.20	44.9	0.00	3.200	27.224	36.370	45.107	548		
593	3.162	34.222	0.38	5.1	139.7	3.20	44.7	0.00	3.129	27.252	36.401	45.142	597		
645	3.008	34.257	0.49	6.5	145.2	3.20	44.5	0.00	2.969	27.295	36.451	45.200	649		
690	2.954	34.276	0.55	7.3	147.3	3.20	44.2	0.00	2.909	27.315	36.475	45.226	694		
789	2.856	34.310	0.48	6.4	151.0	3.19	44.0	0.00	2.804	27.352	36.516	45.272	794		
886	2.722	34.347	0.67	8.9	155.5	3.15	43.4	0.00	2.657	27.394	36.566	45.329	892		
975	2.659	34.382	0.60	7.9	159.0	3.17	44.1	0.00	2.575	27.429	36.605	45.371	982		
1066	2.541	34.424	0.55	7.3	167.0	3.16	44.2	0.00	2.439	27.475	36.657	45.430	1074		
1176	2.399	34.463	0.70	9.2	172.5	3.15	43.7	0.00	2.279	27.519	36.710	45.490	1185		
1275	2.348	34.474	0.77	10.1	172.5	3.13	43.7	0.00	2.207	27.534	36.728	45.512	1285		
1368	2.325	34.483	0.77	10.1	172.8	3.12	43.8	0.00	2.158	27.545	36.742	45.528	1380		
1480	2.260	34.498	0.89	11.6	174.4	3.11	43.3	0.00	2.081	27.563	36.764	45.554	1493		
1608	2.194	34.520	1.01	13.1	176.4	3.07	43.0	0.00	1.800	27.603	36.819	45.623	1623		

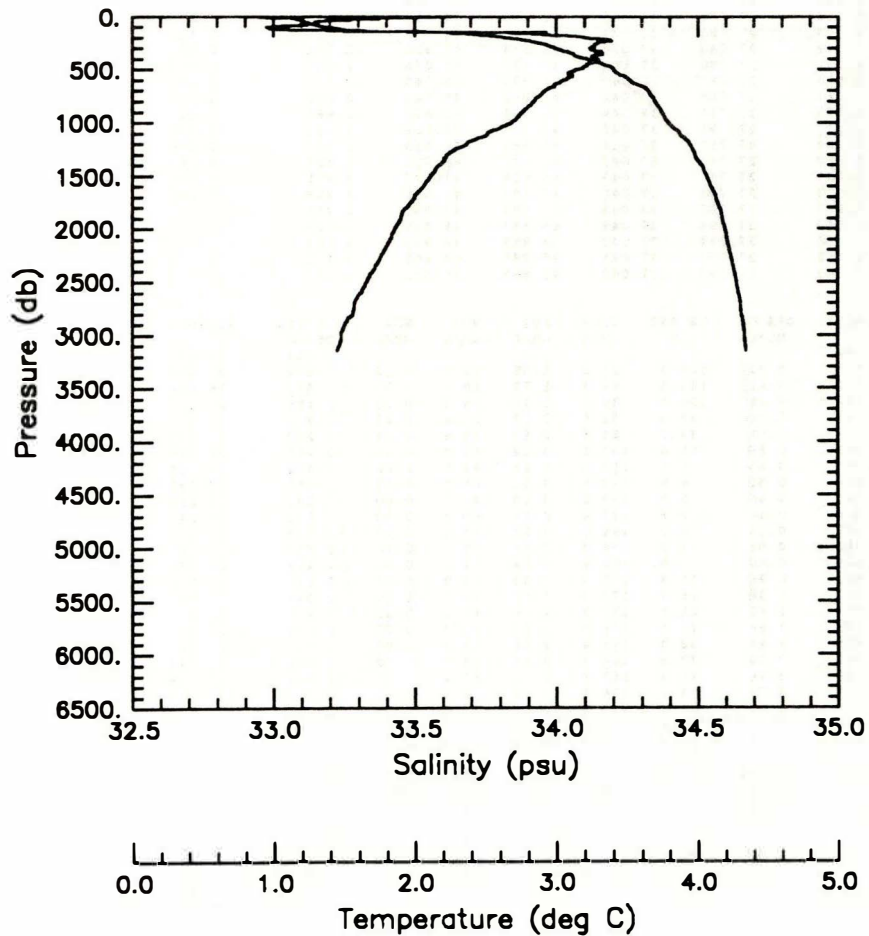
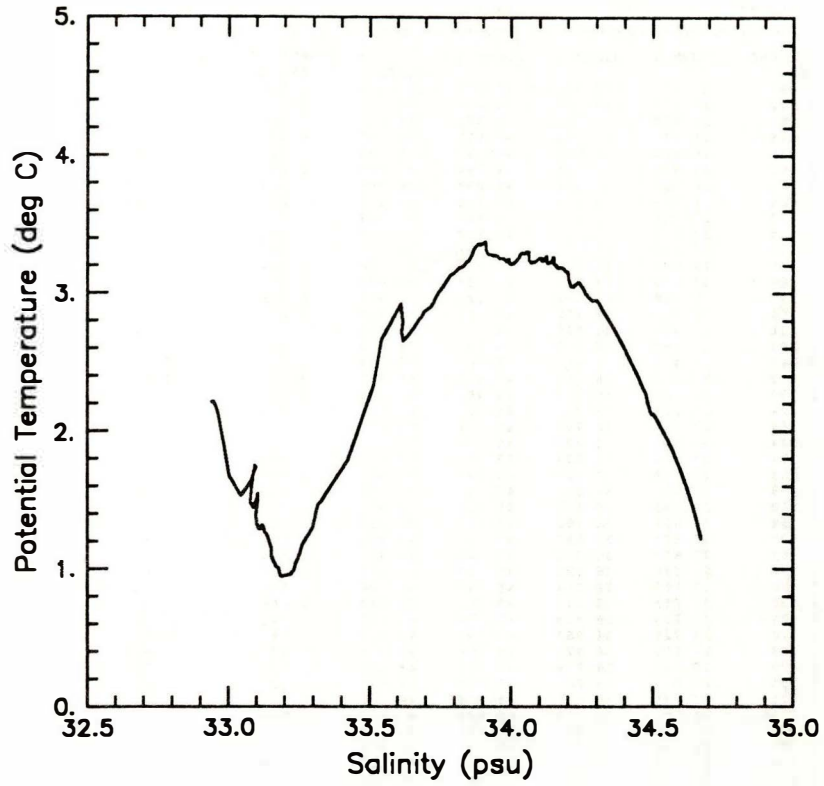
KOROLEV Sta. 10



AKADEMIK KOROLEV SAGA II		STATION 11		START TIME		BOTTOM									
LATITUDE		LONGITUDE		MO/DY/YR		GMT		M							
48 26.5N		155 34.5E		5/13/87		718		4010							
CTD DATA															
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH				
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M				
0	2.214	32.944	2.214	26.309	35.528	44.335	170.383	0.000		1456.3	0				
20	1.689	33.071	1.688	26.449	35.695	44.528	157.094	0.033		1454.5	19				
40	1.417	33.101	1.416	26.492	35.753	44.600	153.028	0.064		1453.7	39				
60	1.300	33.122	1.297	26.516	35.784	44.637	150.708	0.094	2.500	1453.5	59				
80	1.203	33.143	1.200	26.540	35.813	44.670	148.462	0.124	2.010	1453.4	79				
100	0.973	33.190	0.969	26.592	35.877	44.746	143.491	0.153	2.440	1452.8	99				
150	2.667	33.590	2.659	26.789	35.973	44.748	125.558	0.222	2.640	1461.6	149				
200	1.208	33.825	1.195	26.930	36.081	44.825	112.811	0.281	4.080	1465.0	199				
250	3.290	33.941	3.274	27.015	36.160	44.898	105.207	0.335	2.170	1466.3	248				
300	3.236	33.998	3.217	27.066	36.213	44.953	100.726	0.387	1.630	1467.0	298				
350	3.323	34.059	3.300	27.106	36.248	44.983	97.348	0.436	1.520	1468.3	348				
400	3.276	34.109	3.251	27.151	36.295	45.031	93.482	0.484	1.930	1469.6	397				
450	3.219	34.162	3.190	27.198	36.345	45.084	89.278	0.530	1.680	1469.6	447				
500	3.144	34.201	3.111	27.237	36.387	45.129	85.897	0.573	1.930	1470.2	497				
600	3.052	34.258	3.013	27.292	36.446	45.192	81.361	0.657	1.310	1471.5	596				
700	2.923	34.323	2.878	27.356	36.516	45.268	75.863	0.735	1.040	1472.7	695				
800	2.845	34.348	2.793	27.383	36.548	45.304	73.773	0.810	0.880	1474.0	794				
900	2.763	34.373	2.705	27.411	36.580	45.340	71.655	0.883	0.920	1475.3	893				
1000	2.686	34.395	2.621	27.436	36.609	45.373	69.801	0.954	1.120	1476.7	992				
1100	2.520	34.436	2.448	27.483	36.665	45.437	65.532	1.021	0.960	1477.7	1091				
1200	2.372	34.470	2.295	27.523	36.713	45.492	61.943	1.085	0.990	1478.8	1190				
1300	2.235	34.490	2.151	27.551	36.748	45.534	59.474	1.146	0.750	1479.8	1289				
1400	2.178	34.513	2.087	27.575	36.775	45.564	57.559	1.204	1.040	1481.3	1388				
1500	2.116	34.531	2.019	27.595	36.798	45.591	56.000	1.261	0.800	1482.7	1487				
1600	2.064	34.547	1.959	27.612	36.819	45.614	54.655	1.317	0.860	1484.2	1586				
1700	1.998	34.565	1.886	27.632	36.842	45.641	53.044	1.370	0.590	1485.6	1684				
1800	1.944	34.577	1.825	27.647	36.860	45.662	51.889	1.423	0.920	1487.1	1783				
1900	1.904	34.587	1.777	27.658	36.874	45.678	51.092	1.474	0.530	1488.6	1882				
2000	1.862	34.597	1.727	27.670	36.889	45.695	50.234	1.525	0.640	1490.1	1980				
2100	1.827	34.605	1.685	27.679	36.900	45.709	49.618	1.575	0.630	1491.6	2079				
2200	1.788	34.613	1.638	27.689	36.913	45.724	48.907	1.624	0.650	1493.2	2177				
2300	1.746	34.621	1.588	27.700	36.926	45.739	48.097	1.673	0.640	1494.7	2276				
2400	1.703	34.630	1.537	27.710	36.939	45.755	47.280	1.720	0.730	1496.2	2374				
2500	1.661	34.638	1.487	27.720	36.952	45.771	46.483	1.767	0.610	1497.7	2473				
2600	1.623	34.644	1.440	27.729	36.963	45.784	45.829	1.813	0.710	1499.2	2571				
2700	1.572	34.652	1.382	27.740	36.977	45.801	44.897	1.858	0.470	1500.7	2669				
2800	1.551	34.655	1.351	27.743	36.982	45.825	44.252	1.903	0.512	1502.4	2768				
2900	1.504	34.663	1.296	27.754	36.996	45.824	43.792	1.947	0.560	1503.8	2866				
3000	1.477	34.667	1.260	27.760	37.004	45.834	43.393	1.991	0.290	1505.4	2964				
3100	1.465	34.670	1.239	27.764	37.009	45.840	43.315	2.034	0.550	1507.1	3062				
3146	1.449	34.672	1.219	27.767	37.013	45.845	43.056	2.054		1507.8	3107				

NISKIN BOTTLE DATA															
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS	
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C					DB	
2	1.969	33.023	9.67	124.9	27.4	1.15	11.3	0.24	1.969	26.390	35.622	44.440	2		
23	1.852	33.030	9.50	122.3	28.7	1.33	12.6	0.24	1.849	26.405	35.643	44.468	23		
42	1.374	33.099	8.21	104.5	43.9	1.81	21.4	0.21	1.369	26.493	35.757	44.606	42		
62	1.321	33.136	7.98	101.4	48.4	2.02	24.2	0.21	1.314	26.527	35.793	44.645	62		
84	1.247	33.191	7.70	97.7	54.8	2.17	27.2	0.21	1.238	26.576	35.846	44.700	84		
101	1.249	33.202	7.61	96.6	55.2	2.19	27.6	0.20	1.237	26.585	35.854	44.709	101		
117	1.301	33.267	6.84	86.9	59.2	2.29	29.5	0.20	1.287	26.634	35.899	44.750	117		
138	1.903	33.420	5.43	70.2	70.0	2.50	33.8	0.10	1.885	26.715	35.944	44.761	138		
178	3.131	33.765	1.89	25.2	95.9	3.03	42.6	0.00	3.106	26.890	36.047	44.796	179		
223	3.368	33.893	1.47	19.8	105.3	3.19	45.0	0.00	3.338	26.970	36.113	44.849	224		
298	3.380	34.020	0.52	7.0	116.9	3.23	45.7	0.00	3.347	27.071	36.211	44.944	299		
397	3.312	34.124	0.42	5.6	127.9	3.21	45.6	0.00	3.276	27.160	36.303	45.038	399		
506	3.170	34.220	0.34	4.6	138.1	3.20	45.3	0.00	3.131	27.251	36.399	45.140	509		
609	2.971	34.278	0.48	6.4	146.4	3.18	45.0	0.00	2.929	27.315	36.474	45.224	613		
708	2.801	34.320	0.60	8.0	152.1	3.14	44.3	0.00	2.757	27.364	36.531	45.289	713		
803	2.791	34.365	0.56	7.4	157.5	3.18	45.2	0.00	2.740	27.401	36.569	45.327	808		
994	2.559	34.427	0.47	6.2	167.4	3.17	45.0	0.00	2.502	27.472	36.651	45.420	1001		
1240	2.238	34.491	0.99	13.0	170.9	3.07	43.4	0.00	2.177	27.550	36.745	45.530	1250		
1486	2.112	34.534	1.17	15.3	173.1	3.02	42.9	0.00	2.046	27.595	36.797	45.588	1499		
1727	1.968	34.574	1.53	19.9	175.1	2.96	42.1	0.00	1.895	27.639	36.848	45.647	1743		
1982	1.855	34.598	1.75	22.7	175.5	2.90	41.3	0.00	1.776	27.667	36.883	45.687	2002		
2466	1.656	34.639	2.42	31.3	171.5	2.77	39.5	0.00	1.572	27.715	36.942	45.756	2494		
2926	1.492	34.667	3.05	39.3	163.3	2.63	37.7	0.00	1.402	27.750	36.986	45.808	2962		
3095	1.450	34.672	3.21	41.3	161.1	2.59	37.3	0.00	1.351	27.758	36.996	45.821	3134		

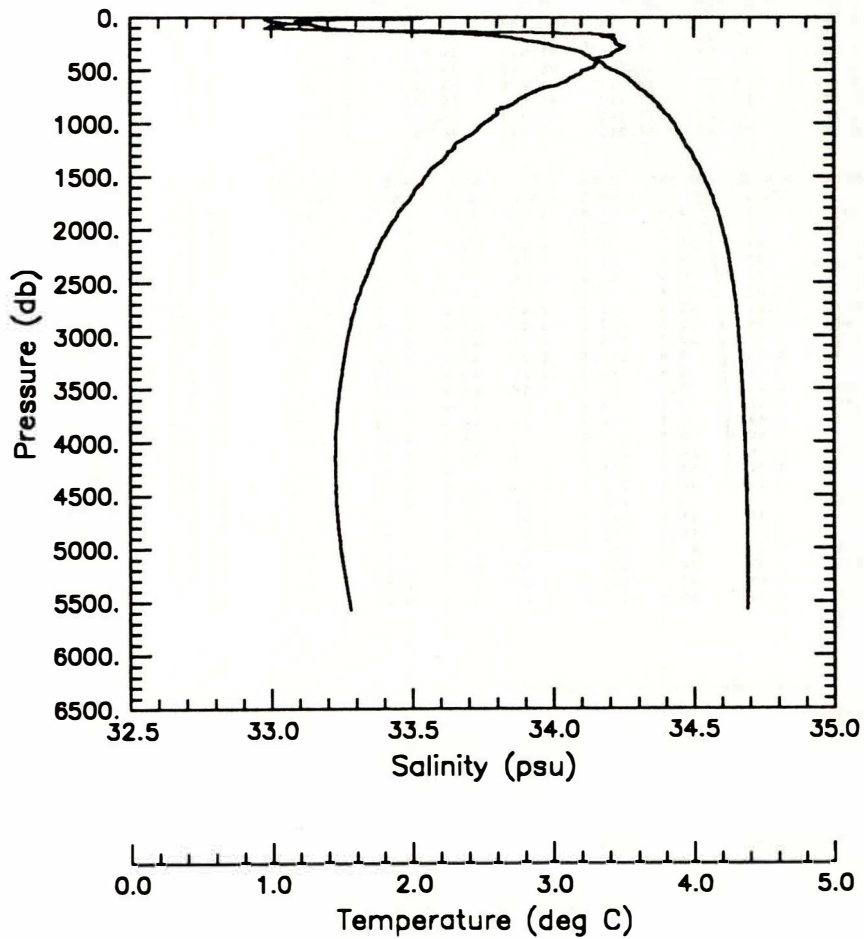
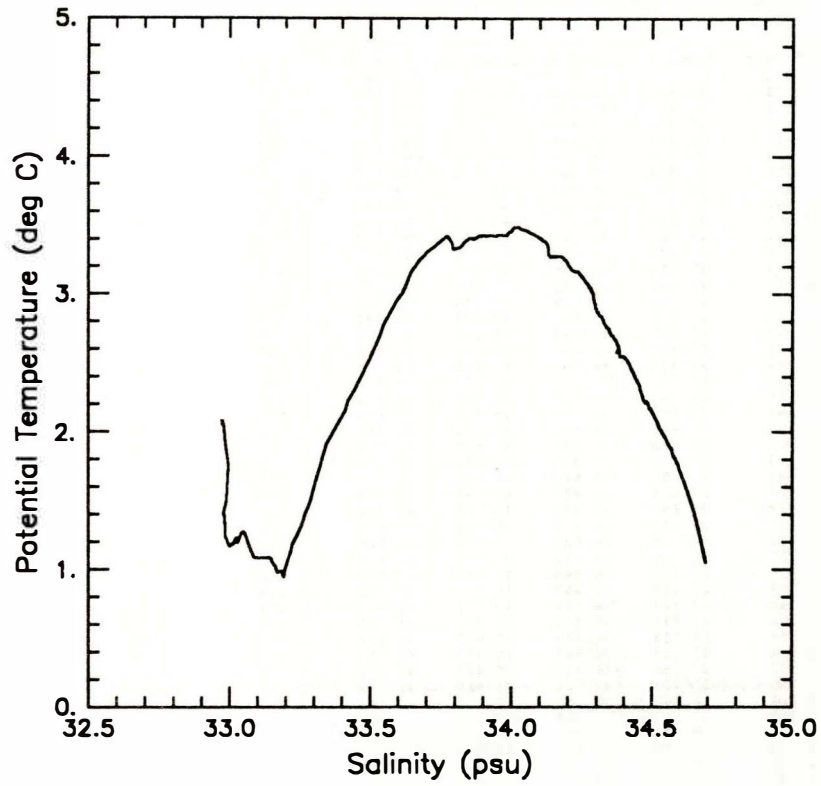
KOROLEV Sta. 11



AKADEMIK KOROLEV SAGA II		STATION 12		START TIME		BOTTOM									
LATITUDE		LONGITUDE		GMT		M									
48	9.2N	155	50.1E	5/13/87	1330		5462								
CTD DATA															
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH				
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M				
0	2.081	32.967	2.081	26.337	35.563	44.377	167.658	0.000		1455.8	0				
20	1.723	32.983	1.722	26.376	35.622	44.454	164.015	0.033		1454.5	19				
40	1.196	33.000	1.194	26.425	35.701	44.561	159.331	0.066	2.850	1452.5	39				
60	1.198	33.064	1.195	26.477	35.751	44.610	154.450	0.097	3.320	1453.0	59				
80	1.045	33.156	1.041	26.560	35.841	44.707	146.550	0.127	2.860	1452.7	79				
100	0.988	33.190	0.984	26.591	35.875	44.744	143.605	0.156	2.390	1452.8	99				
150	3.091	33.631	3.082	26.785	35.946	44.698	126.080	0.224	3.800	1463.5	149				
200	3.419	33.862	3.406	26.939	36.079	44.812	112.050	0.283	2.290	1466.0	199				
250	3.444	33.976	3.428	27.028	36.165	44.895	104.029	0.337	2.070	1467.1	248				
300	3.475	34.056	3.455	27.089	36.223	44.950	98.712	0.388	2.130	1468.1	298				
350	3.412	34.112	3.389	27.140	36.277	45.006	94.232	0.436	1.480	1468.7	348				
400	3.299	34.143	3.273	27.176	36.318	45.053	91.136	0.482	1.500	1469.1	397				
450	3.295	34.180	3.266	27.206	36.348	45.083	88.571	0.527	1.100	1470.0	447				
500	3.218	34.210	3.185	27.238	36.383	45.122	85.978	0.571	1.640	1470.5	497				
600	3.097	34.274	3.058	27.300	36.452	45.196	80.642	0.654	1.240	1471.7	596				
700	2.876	34.320	2.831	27.357	36.520	45.274	75.633	0.732	1.370	1472.5	695				
800	2.734	34.364	2.683	27.405	36.576	45.337	71.492	0.805	1.230	1473.6	794				
900	2.604	34.395	2.547	27.442	36.619	45.387	68.404	0.875	0.950	1474.7	893				
1000	2.511	34.428	2.447	27.477	36.659	45.431	65.470	0.942	1.030	1476.0	992				
1100	2.427	34.449	2.356	27.502	36.688	45.465	63.536	1.007	1.050	1477.3	1091				
1200	2.306	34.469	2.229	27.528	36.721	45.504	61.271	1.069	0.860	1478.5	1190				
1300	2.248	34.495	2.164	27.554	36.751	45.536	59.197	1.129	0.790	1479.9	1289				
1400	2.164	34.517	2.074	27.579	36.780	45.570	57.133	1.187	0.950	1481.3	1388				
1500	2.097	34.534	1.999	27.599	36.804	45.597	55.533	1.244	0.840	1482.6	1487				
1600	2.037	34.553	1.933	27.619	36.827	45.623	53.937	1.299	0.890	1484.1	1586				
1700	1.991	34.568	1.879	27.635	36.846	45.645	52.674	1.352	0.730	1485.6	1684				
1800	1.929	34.581	1.810	27.651	36.865	45.668	51.432	1.404	0.820	1487.0	1783				
1900	1.884	34.593	1.758	27.664	36.881	45.687	50.417	1.455	0.670	1488.5	1882				
2000	1.831	34.603	1.697	27.677	36.897	45.705	49.411	1.505	0.640	1489.9	1980				
2100	1.783	34.613	1.642	27.689	36.912	45.723	48.470	1.554	0.620	1491.4	2079				
2200	1.745	34.621	1.596	27.699	36.925	45.738	47.764	1.602	0.610	1493.0	2177				
2300	1.718	34.627	1.560	27.707	36.934	45.749	47.320	1.649	0.540	1494.6	2276				
2400	1.685	34.634	1.520	27.715	36.944	45.761	46.780	1.696	0.500	1496.1	2374				
2500	1.655	34.641	1.481	27.723	36.955	45.774	46.203	1.743	0.640	1497.7	2473				
2600	1.630	34.645	1.448	27.729	36.963	45.783	45.889	1.789	0.540	1499.3	2571				
2700	1.600	34.650	1.409	27.736	36.972	45.794	45.395	1.834	0.530	1500.8	2669				
2800	1.579	34.654	1.379	27.741	36.979	45.802	45.161	1.890	0.522	1502.4	2768				
2900	1.562	34.658	1.353	27.746	36.985	45.810	44.940	1.925	0.460	1504.1	2866				
3000	1.543	34.661	1.325	27.751	36.991	45.818	44.750	1.970	0.420	1505.7	2964				
3100	1.529	34.664	1.302	27.755	36.996	45.824	44.627	2.014	0.410	1507.4	3062				
3200	1.517	34.667	1.280	27.758	37.001	45.830	44.548	2.059	0.420	1509.0	3160				
3300	1.503	34.669	1.257	27.762	37.006	45.836	44.448	2.103	0.390	1510.7	3258				
3400	1.494	34.672	1.238	27.765	37.010	45.841	44.418	2.148	0.440	1512.4	3356				
3500	1.481	34.674	1.215	27.769	37.015	45.847	44.350	2.192	0.430	1514.0	3454				
3600	1.474	34.676	1.198	27.771	37.018	45.852	44.367	2.237	0.380	1515.7	3552				
3700	1.465	34.678	1.179	27.774	37.022	45.857	44.348	2.281	0.340	1517.4	3650				
3800	1.464	34.679	1.167	27.776	37.025	45.860	44.502	2.325	0.340	1519.1	3748				
3900	1.454	34.681	1.147	27.779	37.029	45.865	44.458	2.370	0.390	1520.8	3845				
4000	1.453	34.682	1.136	27.781	37.032	45.868	44.613	2.414	0.250	1522.5	3943				
4100	1.452	34.684	1.123	27.783	37.034	45.871	44.752	2.459	0.310	1524.3	4041				
4200	1.452	34.685	1.112	27.785	37.036	45.874	44.926	2.504	0.270	1526.0	4138				
4300	1.452	34.686	1.101	27.786	37.039	45.877	45.076	2.549	0.360	1527.7	4236				
4400	1.456	34.687	1.094	27.787	37.040	45.879	45.345	2.594	0.240	1529.5	4333				
4500	1.457	34.688	1.083	27.789	37.042	45.881	45.541	2.639	0.260	1531.2	4431				
4600	1.461	34.688	1.075	27.790	37.044	45.883	45.801	2.685	0.200	1533.0	4528				
4700	1.467	34.689	1.070	27.791	37.045	45.885	46.106	2.731	0.220	1534.7	4626				
4800	1.473	34.690	1.064	27.792	37.046	45.886	46.413	2.777	0.250	1536.5	4723				
4900	1.482	34.690	1.060	27.792	37.047	45.887	46.783	2.824	0.080	1538.3	4820				
5000	1.488	34.691	1.055	27.793	37.048	45.889	47.077	2.871	0.200	1540.1	4918				
5100	1.500	34.691	1.053	27.793	37.048	45.889	47.541	2.918	0.090	1541.9	5015				
5200	1.512	34.691	1.053	27.793	37.049	45.889	47.991	2.966		1543.7	5112				
5300	1.524	34.691	1.052	27.794	37.049	45.889	48.447	3.014		1545.5	5209				
5400	1.537	34.691	1.052	27.794	37.049	45.889	48.933	3.063		1547.3	5306				
5500	1.551	34.691	1.052	27.793	37.048	45.889	49.448	3.112		1549.1	5403				
5572	1.560	34.690	1.052	27.793	37.048	45.889	49.822	3.148		1550.4	5473				

NISKIN BOTTLE DATA															
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS	
M	DEG C		ML/L	%	µM/L	µM/L	µM/L	µM/L	DEG C					DB	
2	2.083	32.986								2.083	26.352	35.578	44.391	2	
21	1.673	32.969	8.92	114.3	31.2	1.39	13.3	0.22	1.672	26.368	35.617	44.453	21		
44	1.554	33.053	8.41	107.5	38.4	1.70	18.3	0.23	1.552	26.444	35.698	44.539	44		
52	1.189	33.022	8.28	104.8	39.1	1.70	18.5	0.22	1.186	26.443	35.719	44.579	52		
99	0.973	33.185	7.38	93.0	52.6	2.17	27.6	0.20	0.970	26.588	35.873	44.742	99		
152	3.226	33.650	2.86	38.3	84.5	2.85	39.6	0.04	3.220	26.788	35.941	44.685	152		
204	3.414	33.861	0.86	11.6	103.1	3.22	45.9	0.01	3.407	26.938	36.078	44.811	204		
252	3.443	33.977	0.45	6.1	113.1	3.26	46.6	0.00	3.434	27.028	36.165	44.894	252		
306	3.469	34.060	0.50	6.8	118.8	3.21	45.8	0.00	3.457	27.092	36.226	44.953	306		
410	3.295	34.149	0.44	5.9	129.2	3.18	45.3	0.00	3.281	27.180	36.322	45.056	410		
504	3.201	34.214	0.44	5.9	137.4	3.18	45.3	0.00							

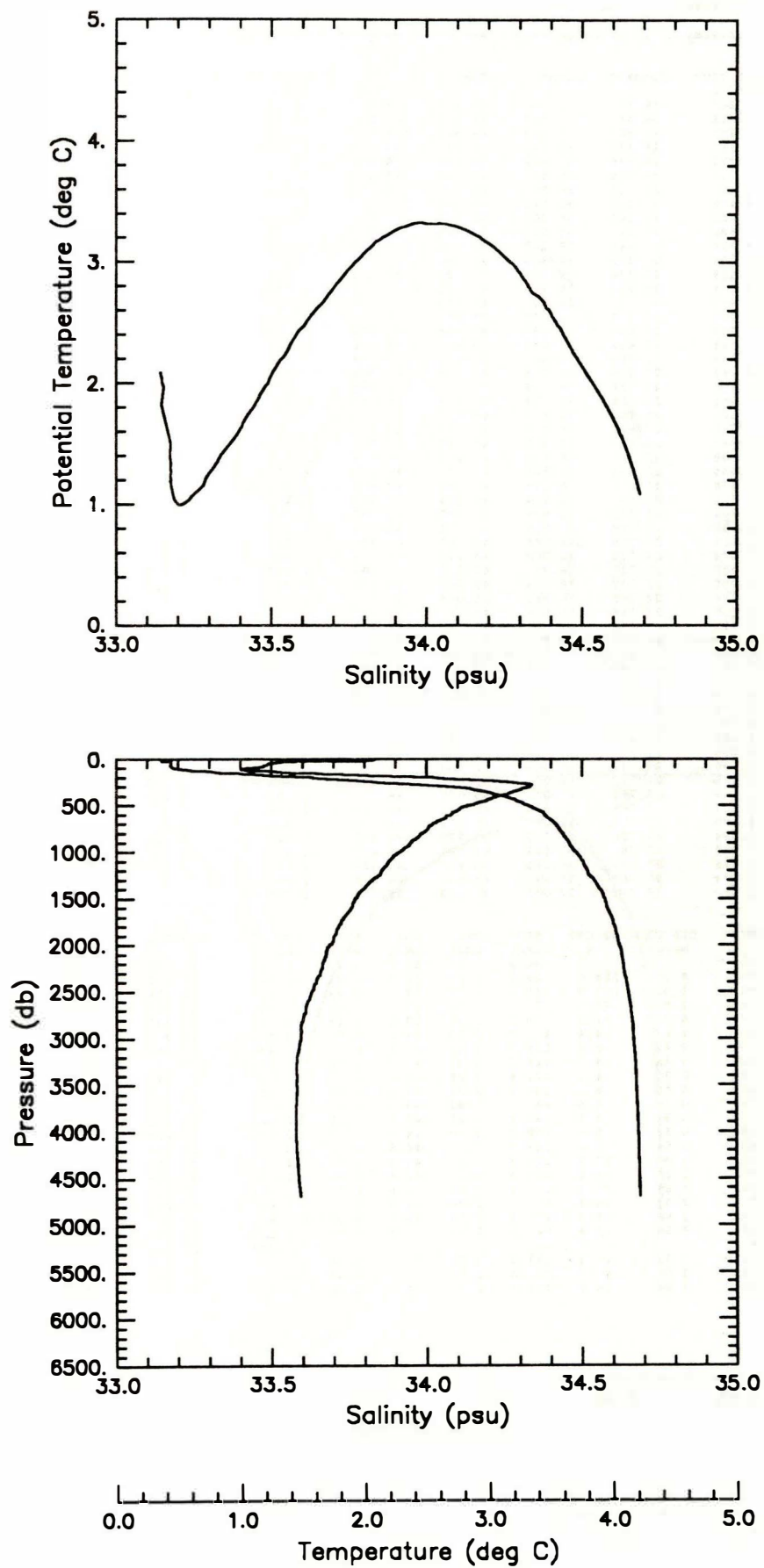
KOROLEV Sta. 12



AKADEMIK KOROLEV SACA II		STATION 13		START TIME		BOTTOM									
LATITUDE	LONGITUDE	MO/DY/YR	GHT	M											
47 39.7N	156 18.0E	5/14/87	324				6203								
CTD DATA															
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH				
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M				
0	2.082	33.144	2.082	26.478	35.701	44.513	154.262	0.000		1456.0	0				
20	1.982	33.149	1.981	26.490	35.719	44.535	153.186	0.031		1455.9	19				
40	1.293	33.177	1.291	26.561	35.828	44.680	146.471	0.061	2 250	1453.2	39				
60	1.219	33.176	1.216	26.565	35.837	44.693	146.043	0.090	0 960	1453.2	59				
80	1.184	33.177	1.180	26.569	35.842	44.700	145.752	0.119	1 270	1453.4	79				
100	1.059	33.189	1.054	26.586	35.866	44.731	144.112	0.148	2 090	1453.2	99				
120	1.456	33.352	1.449	26.691	35.946	44.737	134.350	0.218	2 710	1456.0	149				
200	2.560	33.625	2.549	26.826	36.016	44.795	122.243	0.282	2 670	1462.0	199				
250	3.172	33.833	3.156	26.940	36.093	44.839	112.211	0.341	2 960	1465.7	248				
300	3.323	34.083	3.304	27.125	36.267	45.001	95.179	0.393	3 140	1467.5	298				
350	3.201	34.188	3.178	27.220	36.367	45.106	86.466	0.438	2 090	1467.9	348				
400	3.074	34.250	3.049	27.282	36.435	45.179	77.341	0.519	1 950	1468.3	397				
450	2.978	34.289	2.949	27.323	36.480	45.229	71.589	0.557	1 630	1469.0	497				
500	2.840	34.326	2.809	27.364	36.528	45.284	68.793	0.628	1 070	1470.1	596				
600	2.695	34.379	2.658	27.420	36.591	45.354	65.332	0.695	1 030	1471.2	695				
700	2.553	34.415	2.510	27.461	36.640	45.409	63.326	0.759	0 980	1472.5	794				
800	2.466	34.437	2.417	27.487	36.670	45.444	61.354	0.821	0 760	1473.8	893				
900	2.376	34.458	2.320	27.512	36.700	45.478	59.333	0.882	1 070	1475.1	992				
1000	2.286	34.480	2.224	27.537	36.730	45.513	57.123	0.940	0 840	1476.4	1091				
1100	2.197	34.504	2.128	27.564	36.762	45.549	55.941	0.997	0 730	1477.8	1190				
1200	2.142	34.518	2.067	27.580	36.781	45.572	55.941	0.997	0 840	1477.8	1190				
1300	2.064	34.540	1.982	27.604	36.810	45.604	53.950	1.052	0 950	1479.2	1289				
1400	1.992	34.558	1.904	27.625	36.835	45.633	52.204	1.105	0 940	1480.6	1388				
1500	1.930	34.574	1.835	27.643	36.857	45.658	50.776	1.156	0 750	1482.0	1487				
1600	1.898	34.583	1.795	27.653	36.869	45.672	50.161	1.207	0 690	1483.5	1586				
1700	1.839	34.597	1.729	27.670	36.888	45.695	48.858	1.256	0 730	1484.9	1684				
1800	1.795	34.606	1.678	27.681	36.902	45.711	48.042	1.305	0 680	1486.4	1783				
1900	1.762	34.614	1.637	27.691	36.914	45.725	47.401	1.352	0 650	1488.0	1882				
2000	1.719	34.622	1.587	27.701	36.927	45.740	46.684	1.400	0 830	1489.5	1980				
2100	1.691	34.629	1.551	27.709	36.937	45.752	46.192	1.446	0 430	1491.1	2079				
2200	1.664	34.634	1.516	27.715	36.945	45.762	45.818	1.492	0 470	1492.6	2177				
2300	1.644	34.638	1.488	27.721	36.952	45.770	45.610	1.538	0 450	1494.2	2276				
2400	1.610	34.645	1.445	27.729	36.963	45.783	45.015	1.583	0 510	1495.8	2374				
2500	1.575	34.650	1.403	27.737	36.973	45.795	44.468	1.628	0 580	1497.3	2473				
2600	1.543	34.655	1.363	27.743	36.982	45.806	44.004	1.672	0 620	1498.9	2571				
2700	1.522	34.659	1.332	27.749	36.989	45.815	43.715	1.716	0 340	1500.5	2669				
2800	1.501	34.663	1.304	27.754	36.995	45.823	43.477	1.759	0 410	1502.1	2767				
2900	1.487	34.666	1.280	27.758	37.000	45.829	43.362	1.803	0 170	1503.8	2866				
3000	1.484	34.668	1.267	27.760	37.003	45.833	43.467	1.846	0 360	1505.5	2964				
3100	1.472	34.670	1.246	27.763	37.008	45.839	43.402	1.890	0 400	1507.1	3062				
3200	1.455	34.673	1.220	27.767	37.013	45.845	43.258	1.933	0 350	1508.8	3160				
3300	1.450	34.674	1.206	27.770	37.016	45.849	43.339	1.976	0 250	1510.5	3258				
3400	1.452	34.675	1.197	27.771	37.018	45.852	43.535	2.020	0 230	1512.2	3356				
3500	1.451	34.676	1.186	27.773	37.020	45.854	43.720	2.063	0 150	1513.9	3454				
3600	1.451	34.677	1.176	27.774	37.023	45.857	43.903	2.107	0 340	1515.6	3552				
3700	1.448	34.679	1.163	27.776	37.025	45.860	44.029	2.151	0 360	1517.3	3650				
3800	1.445	34.680	1.149	27.778	37.028	45.864	44.117	2.195	0 320	1519.0	3747				
3900	1.443	34.681	1.137	27.780	37.031	45.867	44.270	2.239	0 330	1520.8	3845				
4000	1.445	34.682	1.127	27.781	37.032	45.869	44.491	2.284	0 270	1522.5	3943				
4100	1.446	34.683	1.118	27.783	37.034	45.872	44.703	2.328	0 260	1524.2	4041				
4200	1.450	34.684	1.111	27.784	37.036	45.874	44.962	2.373	0 200	1526.0	4138				
4300	1.457	34.684	1.107	27.785	37.037	45.875	45.285	2.418	0 220	1527.7	4236				
4400	1.463	34.685	1.100	27.786	37.038	45.876	45.580	2.464	0 250	1529.5	4333				
4500	1.467	34.686	1.093	27.787	37.040	45.878	45.839	2.509	0 210	1531.3	4431				
4600	1.475	34.686	1.089	27.787	37.040	45.879	46.185	2.555	0 170	1533.0	4528				
4692	1.483	34.686	1.086	27.788	37.041	45.880	46.548	2.598		1534.7	4618				

NISKIN BOTTLE DATA															
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	P04	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS	
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB	
1	2.081	33.169	7.59	98.4	54.6	2.08	26.3	0.23	2.080	26.499	35.722	44.532		1	
22	1.995	33.152	7.99	103.3	54.0	2.07	25.7	0.23	1.993	26.492	35.720	44.535		22	
42	1.275	33.178	7.89	100.2	55.3	2.14	26.8	0.22	1.272	26.563	35.831	44.684		42	
84	1.181	33.181	7.80	98.8	56.0	2.16	27.0	0.24	1.176	26.572	35.845	44.703		84	
121	1.046	33.237	7.20	90.9	60.1	2.26	28.8	0.26	1.040	26.625	35.905	44.770		121	
163	1.720	33.417	5.24	67.4	74.7	2.53	33.9	0.05	1.712	26.725	35.964	44.787		163	
200	2.595	33.623	3.21	42.3	91.3	2.83	39.2	0.01	2.583	26.822	36.010	44.787		200	
247	3.359	33.948	0.86	11.6	110.5	3.22	45.4	0.00	3.342	27.014	36.156	44.890		247	
248	3.163	33.831	1.55	20.7	105.7	3.08	43.8	0.01	3.140	26.939	36.094	44.840		248	
305	3.306	34.093	0.43	5.8	125.5	3.23	45.8	0.00	3.273	27.136	36.279	45.015		306	
398	3.076	34.242	0.42	5.6	142.3	3.21	45.4	0.00	3.023	27.278	36.432	45.178		400	
498	2.853	34.320	0.41	5.5	151.7	3.18	44.9	0.00	2.772	27.363	36.529	45.286		501	
596	2.698	34.380	0.42	5.6	158.9	3.17	45.0	0.00	2.647	27.422	36.594	45.356		600	
797	2.460	34.439	0.59	7.8	166.8	3.15	44.4	0.00	2.396	27.490	36.675	45.449		803	
995	2.287	34.483	0.82	10.8	170.6	3.11	43.6	0.00	2.207	27.541	36.735	45.519		1003	
1247	2.122	34.528	1.06	13.8	175.6	3.06	43.1	0.00	2.024	27.592	36.795	45.587		1257	
1487	1.928	34.578	1.52	19.8	175.0	2.95	41.8	0.00	1.814	27.648	36.862	45.665		1500	
1737	1.813	34.605	1.86	24.1	172.0	2.89	41.0	0.00	1.680	27.680	36.901	45.710		1754	
2031	1.701	34.626D													

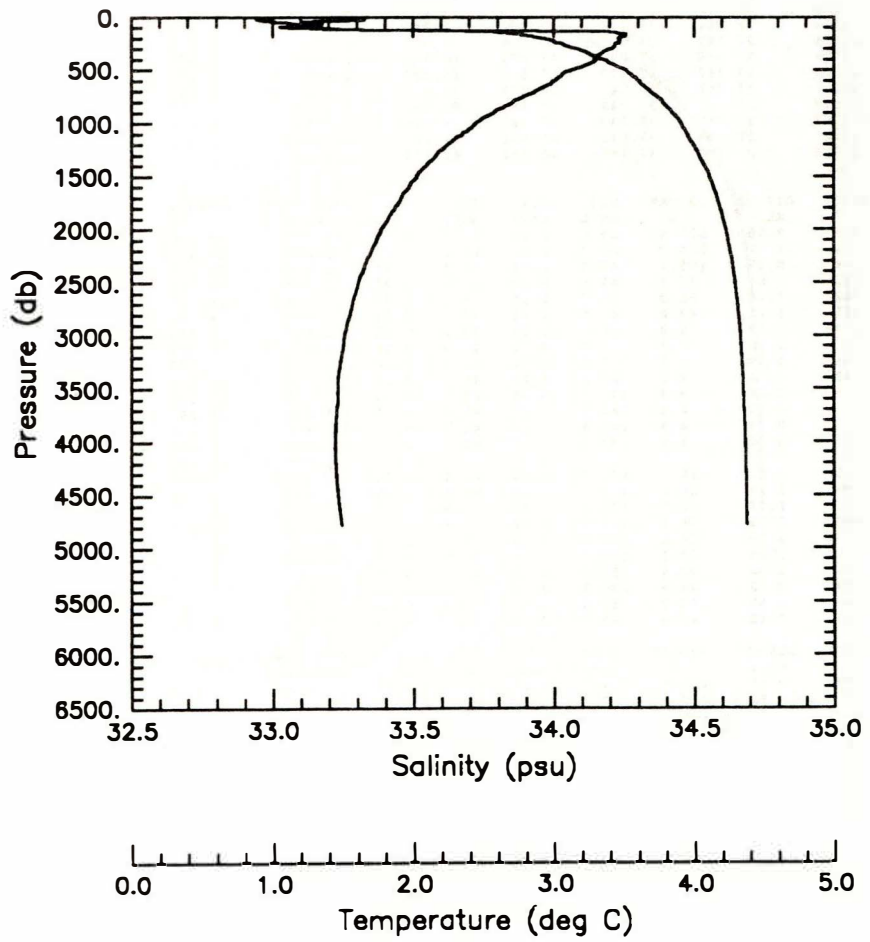
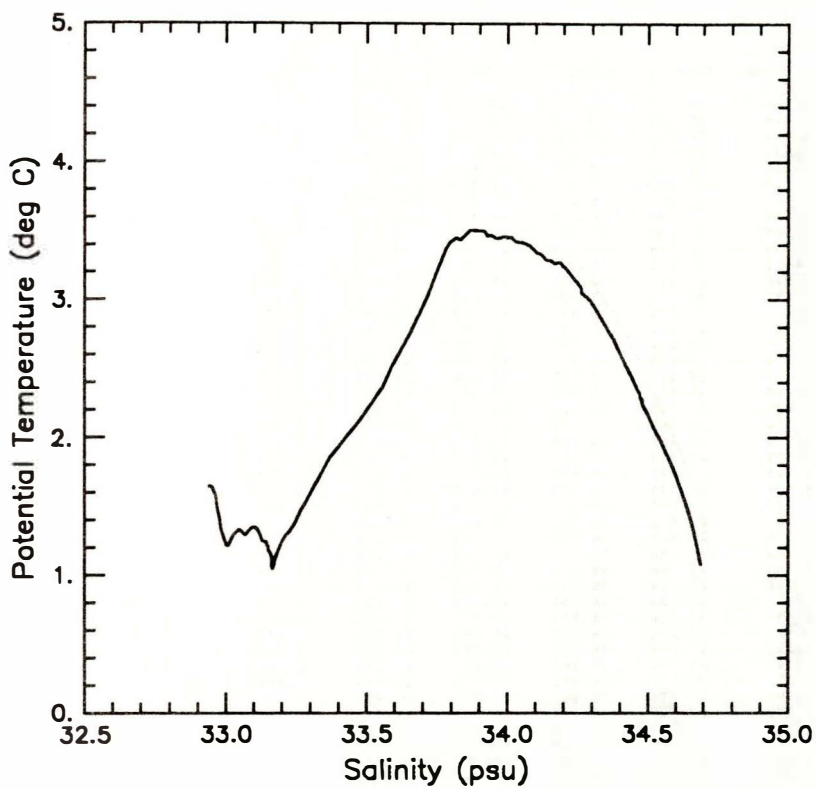
KOROLEV Sta. 13



AKADEMIK KOROLEV SAGA II			STATION 14		START TIME		BOTTOM					
LATITUDE		LONGITUDE	MO/DY/YR		GMT		M					
47 17.3N		156 41.5E	5/14/87		1200		4700					
CTD DATA												
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M	
0	1.643	32.939	1.643	26.347	35.598	44.435	166.770	0.000		1453.8	0	
20	1.649	32.943	1.648	26.349	35.600	44.437	166.581	0.033		1454.2	19	
40	1.360	32.985	1.358	26.403	35.669	44.521	161.480	0.066	3.170	1453.3	39	
60	1.316	33.069	1.313	26.473	35.741	44.593	154.819	0.098	3.210	1453.5	59	
80	1.226	33.143	1.222	26.538	35.810	44.666	148.650	0.128	2.860	1453.5	79	
100	1.124	33.176	1.119	26.571	35.848	44.710	145.485	0.158	3.350	1453.4	99	
150	3.463	33.834	3.453	26.913	36.051	44.781	114.166	0.222	3.400	1465.3	149	
200	3.463	33.960	3.450	27.013	36.149	44.878	105.079	0.277	2.180	1466.3	199	
250	3.442	34.027	3.426	27.069	36.205	44.934	100.186	0.328	1.740	1467.1	248	
300	3.400	34.082	3.381	27.117	36.255	44.985	95.989	0.378	1.930	1467.8	298	
350	3.329	34.129	3.306	27.161	36.302	45.036	92.150	0.424	1.540	1468.4	348	
400	3.296	34.177	3.270	27.203	36.345	45.080	88.540	0.470	1.590	1469.1	397	
450	3.238	34.213	3.209	27.238	36.383	45.120	85.584	0.513	1.600	1469.8	447	
500	3.128	34.257	3.096	27.283	36.433	45.175	81.544	0.555	1.510	1470.2	497	
600	3.004	34.302	2.966	27.331	36.487	45.235	77.598	0.635	1.160	1471.3	596	
700	2.872	34.344	2.827	27.377	36.540	45.294	73.770	0.710	1.240	1472.5	695	
800	2.712	34.387	2.661	27.426	36.597	45.359	69.506	0.782	1.030	1473.5	794	
900	2.575	34.421	2.518	27.466	36.644	45.413	66.112	0.850	1.050	1474.6	893	
1000	2.447	34.453	2.384	27.502	36.687	45.462	62.999	0.914	0.940	1475.8	992	
1100	2.352	34.474	2.282	27.528	36.718	45.498	60.900	0.976	0.950	1477.0	1091	
1200	2.250	34.496	2.174	27.554	36.750	45.535	58.668	1.036	0.980	1478.3	1190	
1300	2.166	34.517	2.083	27.578	36.778	45.568	56.717	1.093	0.800	1479.6	1289	
1400	2.096	34.537	2.007	27.600	36.804	45.598	54.919	1.149	0.890	1481.0	1388	
1500	2.027	34.555	1.930	27.620	36.829	45.625	53.275	1.203	0.650	1482.4	1487	
1600	1.973	34.569	1.869	27.637	36.848	45.648	52.008	1.256	0.660	1483.8	1586	
1700	1.919	34.582	1.808	27.652	36.866	45.669	50.876	1.307	0.640	1485.3	1684	
1800	1.873	34.593	1.755	27.665	36.882	45.687	49.979	1.358	0.680	1486.8	1783	
1900	1.824	34.604	1.698	27.677	36.898	45.706	48.922	1.407	0.650	1488.2	1882	
2000	1.774	34.614	1.641	27.690	36.914	45.724	47.904	1.455	0.640	1489.7	1980	
2100	1.742	34.622	1.601	27.699	36.924	45.737	47.348	1.503	0.530	1491.3	2079	
2200	1.706	34.629	1.558	27.708	36.936	45.751	46.722	1.550	0.590	1492.8	2177	
2300	1.667	34.637	1.510	27.718	36.948	45.765	45.995	1.596	0.540	1494.3	2276	
2400	1.642	34.642	1.478	27.724	36.956	45.775	45.657	1.642	0.550	1495.9	2374	
2500	1.612	34.647	1.439	27.731	36.965	45.786	45.204	1.688	0.470	1497.5	2473	
2600	1.591	34.651	1.410	27.737	36.972	45.795	44.920	1.733	0.520	1499.1	2571	
2700	1.566	34.656	1.376	27.743	36.980	45.804	44.569	1.777	0.430	1500.7	2669	
2800	1.549	34.659	1.350	27.748	36.986	45.812	44.217	1.822	0.490	1502.1	2767	
2900	1.527	34.663	1.319	27.753	36.994	45.820	44.077	1.866	0.480	1503.9	2866	
3000	1.511	34.666	1.294	27.757	36.999	45.827	43.928	1.910	0.370	1505.6	2964	
3100	1.501	34.668	1.275	27.760	37.003	45.832	43.937	1.954	0.430	1507.3	3062	
3200	1.489	34.671	1.253	27.764	37.008	45.838	43.862	1.998	0.380	1508.9	3160	
3300	1.475	34.673	1.230	27.767	37.012	45.844	43.775	2.042	0.360	1510.6	3258	
3400	1.465	34.675	1.210	27.770	37.017	45.849	43.726	2.086	0.360	1512.2	3356	
3500	1.463	34.677	1.198	27.772	37.019	45.852	43.881	2.129	0.270	1513.9	3454	
3600	1.461	34.678	1.186	27.774	37.022	45.856	44.014	2.173	0.270	1515.7	3552	
3700	1.454	34.680	1.169	27.777	37.025	45.860	44.059	2.217	0.380	1517.3	3650	
3800	1.449	34.681	1.153	27.779	37.029	45.864	44.104	2.261	0.360	1519.1	3747	
3900	1.447	34.682	1.140	27.781	37.031	45.867	44.248	2.306	0.310	1520.8	3845	
4000	1.444	34.684	1.126	27.783	37.034	45.871	44.352	2.350	0.230	1522.5	3943	
4100	1.443	34.685	1.115	27.785	37.036	45.874	44.514	2.394	0.270	1524.2	4041	
4200	1.446	34.686	1.107	27.786	37.038	45.876	44.762	2.439	0.210	1526.0	4138	
4300	1.450	34.687	1.100	27.787	37.040	45.878	44.999	2.484	0.230	1527.7	4236	
4400	1.456	34.687	1.094	27.788	37.041	45.879	45.313	2.529	0.160	1529.5	4333	
4500	1.464	34.688	1.090	27.788	37.041	45.880	45.657	2.574	0.170	1531.3	4431	
4600	1.472	34.688	1.086	27.789	37.042	45.881	46.029	2.620	0.180	1533.0	4528	
4700	1.482	34.688	1.084	27.789	37.043	45.882	46.404	2.667		1534.8	4626	
4782	1.489	34.689	1.082	27.790	37.043	45.882	46.716	2.705		1536.3	4706	

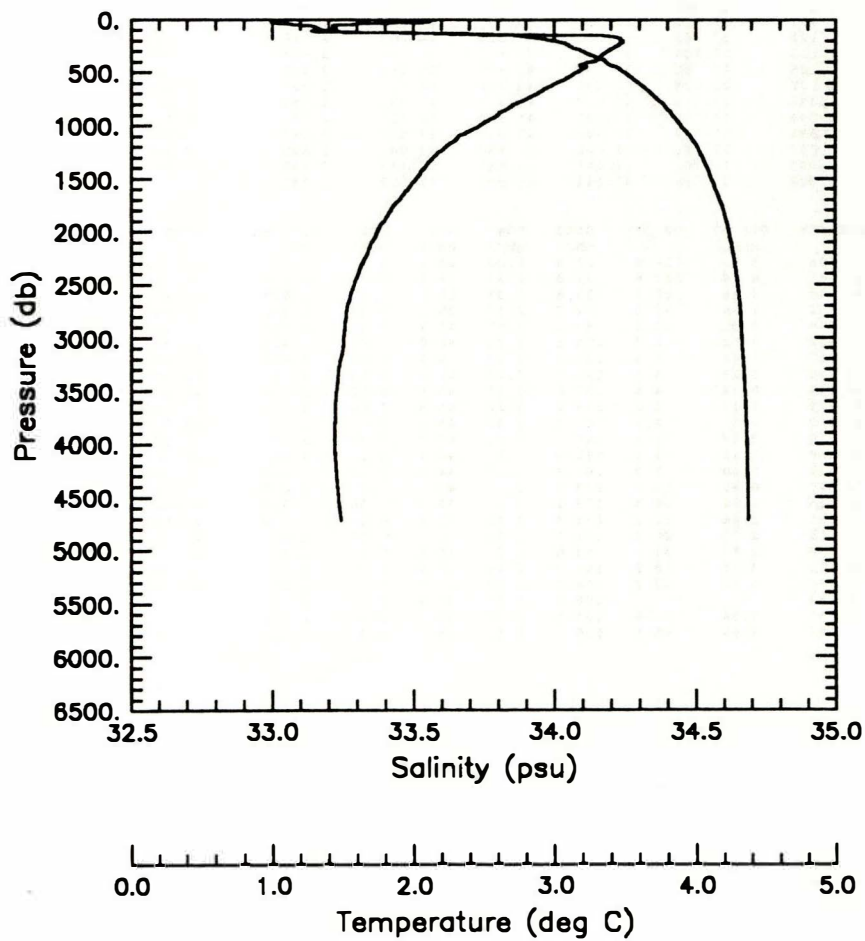
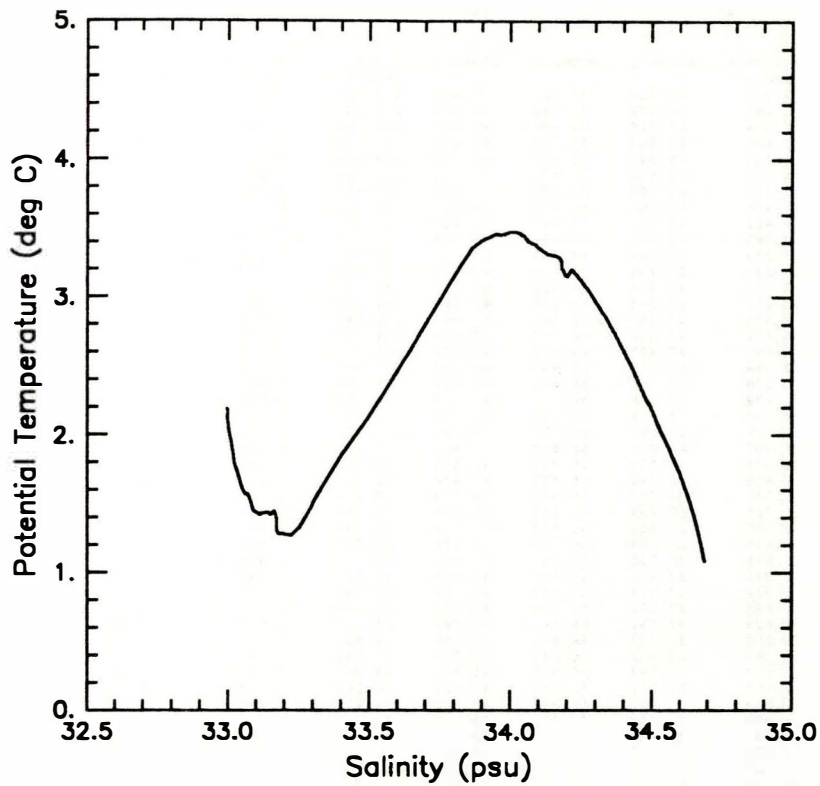
NISKIN BOTTLE DATA														
CASID	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	1.642	32.939		8.95	114.6	29.3	1.37	13.0	0.22	1.642	26.346	35.597	44.435	2
19	1.648	32.946		8.52	107.9	35.7	1.36	12.4	0.23	1.647	26.352	35.602	44.439	19
41	1.237	32.989		7.64	96.9	50.6	1.56	15.9	0.22	1.235	26.414	35.687	44.545	41
79	1.230	33.145		6.33	81.1	59.5	2.12	25.9	0.27	1.226	26.540	35.811	44.667	79
118	1.580	33.284		1.07	14.4	101.9	3.34	30.1	0.18	1.574	26.628	35.877	44.712	118
158	3.513	33.867		0.47	6.3	109.7	3.31	46.4	0.00	3.450	26.934	36.069	44.797	158
198	3.463	33.951		0.32	4.3	116.7	3.32	46.5	0.00	3.421	27.069	36.142	44.871	198
252	3.437	34.027		0.31	4.2	121.8	3.28	46.1	0.00	3.379	27.116	36.253	44.984	252
304	3.395	34.080		0.45	6.1	131.3	3.24	45.4	0.00	3.280	27.199	36.341	45.075	304
400	3.100	34.173		0.34	4.6	142.1	3.22	45.2	0.00	3.076	27.288	36.438	45.181	400
509	3.101	34.260		0.38	4.5	147.2	3.21	45.1	0.00	2.961	27.331	36.488	45.236	509
605	2.993	34.302		0.54	7.1	158.5	3.20	44.9	0.00	2.670	27.424	36.595	45.356	605
801	2.707	34.386		0.93	12.2	173.3	3.17	44.6	0.00	2.397	27.500	36.684	45.458	801
992	2.447	34.451		1.23	15.0	175.9	3.17	43.4	0.00	2.137	27.566	36.763	45.550	992
1246	2.199	34.507		1.64	21.3	174.4	3.02	42.6	0.00	1.946	27.619	36.826	45.622	1246
1491	2.024	34.554		2.03	26.3	173.8	2.95	41.6	0.00	1.799	27.657	36.872	45.675	1491
1744	1.894	34.588		2.60	33.5	167.9	2.74	39.0	0.00	1.657	27.691	36.914	45.724	1744
1992	1.770	34.617		3.06	39.3	161.9	2.63	37.5	0.00	1.471	27.730	36.962	45.781	1992
2502	1.606	34.648								1.339	27.754	36.993	45.819	2502
2961	1.510	34.666		3.53	45.2	157.5	2.54	36.5	0.00	1.248	27.768	37.012	4	

KOROLEV Sta. 14



AKADEMIK KOROLEV SAGA II		STATION 15		START TIME		BOTTOM								
LATITUDE	LONGITUDE	MO/DY/YR	GMT			M								
4° 4.3N	156 57.8E	5/15/87	18			4634								
CTD DATA														
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH			
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M			
0	2.196	32.995	2.196	26.350	35.570	44.377	166.414	0.000		1456.3	0			
20	2.117	32.997	2.116	26.358	35.582	44.393	165.730	0.033		1456.3	19			
40	1.674	33.045	1.672	26.429	35.677	44.511	159.028	0.066	3.480	1454.7	39			
60	1.436	33.133	1.433	26.516	35.776	44.621	150.739	0.097		1454.1	59			
80	1.439	33.158	1.436	26.536	35.795	44.640	148.877	0.127	2.000	1454.5	79			
100	1.334	33.176	1.329	26.558	35.823	44.673	146.832	0.156	3.240	1454.4	99			
150	3.287	33.843	3.277	26.936	36.083	44.822	111.901	0.222	4.070	1464.6	149			
200	3.481	33.936	3.468	27.040	36.175	44.902	102.531	0.275	2.150	1466.4	199			
250	3.441	34.054	3.425	27.090	36.226	44.955	98.174	0.325	1.490	1467.1	248			
300	3.373	34.100	3.354	27.134	36.273	45.004	94.367	0.373	1.580	1467.7	298			
350	3.328	34.143	3.305	27.173	36.314	45.047	91.054	0.420	1.650	1468.4	348			
400	3.248	34.181	3.223	27.211	36.355	45.092	87.810	0.464	1.410	1468.9	397			
450	3.221	34.220	3.192	27.244	36.390	45.128	84.959	0.507	1.400	1469.7	447			
500	3.154	34.248	3.122	27.274	36.423	45.164	82.465	0.549	1.350	1470.3	497			
550	3.014	34.299	2.975	27.327	36.483	45.230	77.967	0.630	1.330	1471.4	596			
600	2.882	34.342	2.837	27.374	36.537	45.290	74.038	0.706	1.210	1472.5	695			
700	2.716	34.386	2.665	27.425	36.596	45.358	69.624	0.777	1.180	1473.5	794			
800	2.599	34.416	2.541	27.460	36.637	45.404	66.739	0.846	0.960	1474.7	893			
900	2.474	34.447	2.410	27.495	36.679	45.453	63.709	0.911	1.040	1475.8	992			
1000	2.325	34.481	2.255	27.535	36.727	45.508	60.135	0.973	1.060	1476.9	1091			
1100	2.232	34.505	2.156	27.563	36.759	45.545	57.826	1.032	0.930	1478.2	1190			
1200	2.145	34.523	2.062	27.585	36.786	45.577	56.013	1.089	0.870	1479.5	1289			
1300	2.078	34.540	1.989	27.604	36.810	45.603	54.465	1.144	0.830	1480.9	1388			
1400	2.022	34.555	1.925	27.621	36.830	45.627	53.175	1.198	0.800	1482.3	1487			
1500	1.963	34.569	1.859	27.638	36.850	45.650	51.879	1.250	0.820	1483.8	1586			
1600	1.902	34.584	1.792	27.655	36.870	45.674	50.498	1.301	0.780	1485.2	1684			
1700	1.841	34.599	1.723	27.672	36.891	45.698	49.082	1.351	0.670	1486.6	1783			
1800	1.795	34.609	1.670	27.684	36.906	45.715	48.171	1.400	0.720	1488.1	1882			
1900	1.745	34.619	1.612	27.696	36.921	45.733	47.254	1.447	0.590	1489.6	1980			
2000	1.706	34.627	1.566	27.706	36.933	45.748	46.529	1.494	0.680	1491.1	2079			
2100	1.676	34.633	1.528	27.714	36.943	45.760	46.022	1.540	0.550	1492.7	2177			
2200	1.640	34.640	1.484	27.723	36.954	45.773	45.407	1.586	0.590	1494.2	2276			
2300	1.611	34.645	1.446	27.730	36.963	45.784	44.969	1.631	0.530	1495.8	2374			
2400	1.583	34.650	1.410	27.736	36.972	45.794	44.569	1.676	0.500	1497.4	2473			
2500	1.555	34.655	1.374	27.742	36.980	45.804	44.172	1.720	0.440	1498.9	2571			
2600	1.533	34.659	1.343	27.748	36.987	45.813	43.899	1.764	0.430	1500.6	2669			
2700	1.521	34.662	1.323	27.751	36.992	45.819	43.946	1.829	0.310	1502.2	2767			
2800	1.514	34.664	1.306	27.754	36.995	45.823	43.887	1.852	0.320	1503.9	2866			
2900	1.507	34.666	1.290	27.757	36.999	45.827	43.931	1.896	0.320	1505.6	2964			
3000	1.501	34.667	1.275	27.759	37.002	45.831	44.033	1.940	0.400	1507.3	3062			
3100	1.485	34.670	1.249	27.764	37.008	45.838	43.829	1.984	0.450	1508.9	3160			
3200	1.470	34.673	1.225	27.767	37.013	45.845	43.691	2.028	0.330	1510.5	3258			
3300	1.464	34.675	1.209	27.770	37.017	45.849	43.739	2.071	0.360	1512.2	3356			
3400	1.455	34.677	1.190	27.773	37.020	45.854	43.742	2.115	0.430	1513.9	3454			
3500	1.447	34.679	1.171	27.776	37.025	45.859	43.708	2.159	0.360	1515.6	3552			
3600	1.443	34.681	1.158	27.778	37.027	45.863	43.822	2.203	0.300	1517.3	3650			
3700	1.443	34.682	1.147	27.780	37.030	45.865	43.980	2.247	0.380	1519.0	3747			
3800	1.441	34.683	1.135	27.782	37.032	45.869	44.124	2.291	0.350	1520.8	3845			
3900	1.439	34.684	1.122	27.784	37.035	45.872	44.249	2.335	0.310	1522.5	3943			
4000	1.443	34.685	1.114	27.785	37.036	45.874	44.507	2.379	0.210	1524.2	4041			
4100	1.448	34.686	1.108	27.786	37.038	45.875	44.792	2.424	0.260	1526.0	4138			
4200	1.454	34.687	1.103	27.787	37.039	45.877	45.090	2.469	0.200	1527.7	4236			
4300	1.459	34.687	1.097	27.788	37.040	45.879	45.371	2.514	0.200	1529.5	4333			
4400	1.467	34.688	1.093	27.788	37.041	45.880	45.723	2.560	0.260	1531.3	4431			
4500	1.475	34.688	1.089	27.789	37.042	45.880	46.089	2.605	0.160	1533.0	4528			
4600	1.484	34.688	1.086	27.789	37.042	45.881	46.443	2.652	0.170	1534.8	4626			
4722	1.486	34.689	1.086	27.790	37.043	45.882	46.515	2.662		1535.2	4647			
NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	uM/L	DEG C				DB
2	2.429	32.999	9.00	117.6	29.1	1.23	11.3	0.24	2.429	26.336	35.542	44.337	2	
21	2.275	33.004	8.91	116.0	27.3	1.26	12.1	0.25	2.274	26.352	35.567	44.370	21	
40	1.550	33.059	8.27	105.7	37.8	1.75	18.6	0.24	1.548	26.449	35.703	44.544	40	
80	1.303	33.142	7.67	97.4	49.6	2.10	25.6	0.29	1.299	26.532	35.799	44.652	80	
120	1.299	33.222	7.18	91.2	55.7	2.25	28.5	0.27	1.294	26.597	35.863	44.714	120	
142	1.547	33.308	6.41	82.0	63.0	2.41	30.7	0.23	1.540	26.649	35.900	44.737	142	
160	3.439	33.889	0.73	9.8	104.7	3.24	46.0	0.01	3.426	26.959	36.097	44.828	160	
199	3.446	33.951	0.41	5.5	110.7	3.32	47.0	0.01	3.430	27.008	36.145	44.875	200	
249	3.475	34.041	0.29	3.9	117.4	3.32	46.8	0.00	3.455	27.077	36.212	44.939	250	
298	3.396	34.088	0.31	4.2	123.1	3.27	46.3	0.00	3.370	27.123	36.261	44.992	299	
403	3.203	34.186	0.44	5.9	133.9	3.19	45.3	0.00	3.170	27.220	36.367	45.106	405	
496	3.094	34.265	0.32	4.3	142.5	3.21	45.4	0.00	3.054	27.293	36.445	45.189	499	
596	2.969	34.312	0.37	4.9	147.4	3.19	45.3	0.00	2.916	27.344	36.502	45.252	600	
791	2.720	34.384	0.42	5.6	157.3	3.18	45.0	0.00	2.654	27.424	36.596	45.358	797	
987	2.467	34.447							2.384	27.497	36.683	45.458	994	
1235	2.210	34.510	0.82	10.7	172.7	3.09	43.8	0.00	2.111	27.570	36.769	45.557	1245	
1482	2.022	34.554	1.24	16.2	175.3	3.02	42.9	0.00	1.905	27.622	36.831	45.629	1495	
1728	1.905	34.585	1.58	20.5	173.9	2.95	41.9	0.00	1.769	27.657	36.874	45.678	1744	
1973	1.758	34.617	2.02	26.1	171.8	2.86	40.8	0.00	1.580	27.697	36.924	45.738	1993	
2469	1.590	34.649	2.65	34.1	165.6	2.72	38.7	0.00	1.371	27.738	36.976	45.800	2497	
2956	1.506	34.665	3.05	39.1	160.9	2.64	37.9	0.00	1.239	27.760	37.005	45.836	2993	
3445	1.453	34.676	3.32	42.4	157.4	2.56	37.1	0.00	1.137	27.776	37.026	45.863	3492	
3930	1.441	34.683	3.52	44.9	154.8	2.52	36.4	0.00	1.075	27.786	37.040	45.879		

KOROLEV Sta. 15

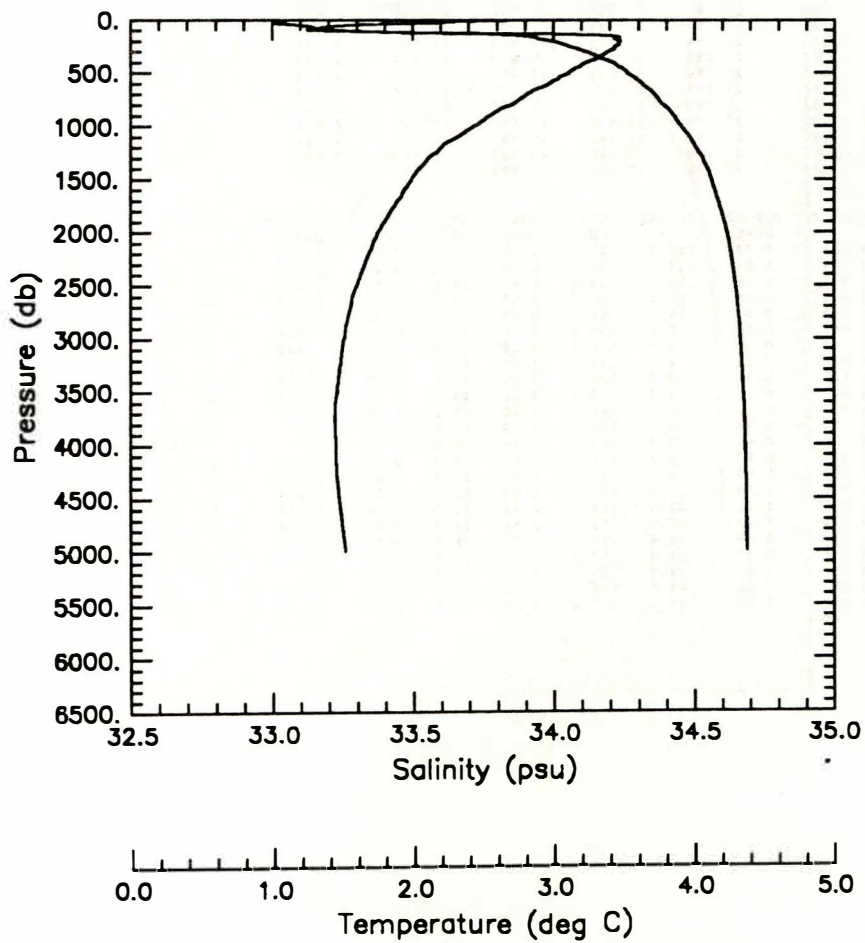
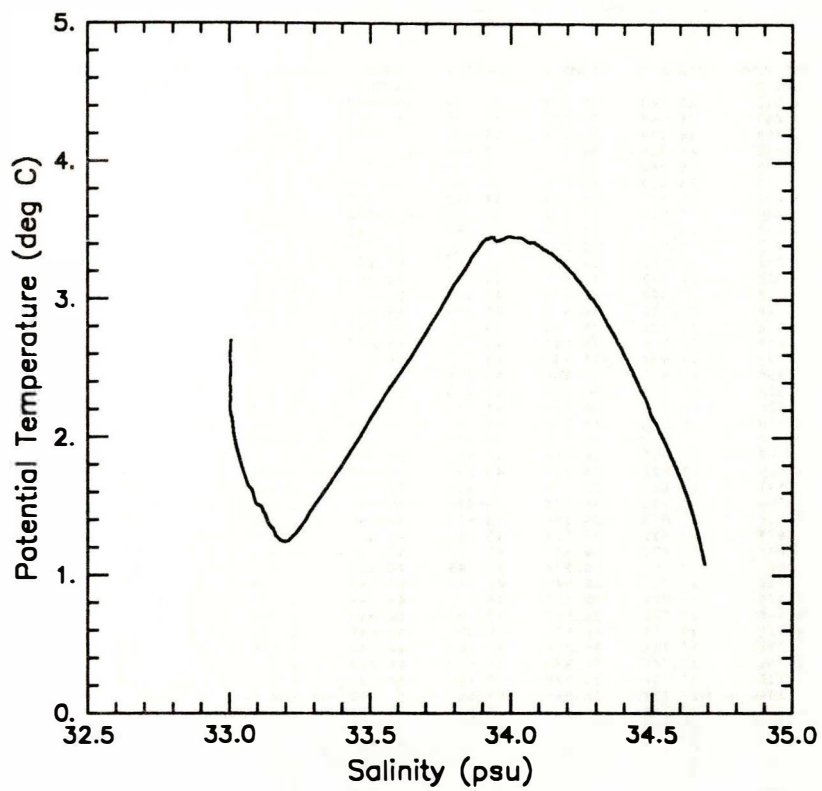


AKADEMIK KOROLEV SAGA II STATION 16
 LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 46 50.5N 157 5.7E 5/15/87 706 4905

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	2.703	33.007	2.703	26.320	35.511	44.292	169.308	0.000		1458.5	0
20	2.262	33.003	2.261	26.352	35.568	44.372	166.280	0.034		1456.9	19
40	1.808	33.045	1.806	26.420	35.660	44.487	159.906	0.066	3.600	1455.3	39
60	1.428	33.128	1.426	26.513	35.773	44.619	151.076	0.097	3.090	1454.1	59
80	1.333	33.154	1.330	26.540	35.805	44.656	148.461	0.127	2.810	1454.0	79
100	1.357	33.244	1.352	26.611	35.873	44.721	141.786	0.156	4.190	1454.6	99
150	3.409	33.897	3.399	26.968	36.107	44.840	108.985	0.218	3.150	1465.2	149
200	3.468	33.995	3.456	27.040	36.175	44.904	102.518	0.271	2.020	1466.3	199
250	3.438	34.056	3.422	27.092	36.228	44.957	97.957	0.321	1.790	1467.1	248
300	3.385	34.116	3.365	27.146	36.284	45.014	93.277	0.369	1.760	1467.8	298
350	3.321	34.162	3.299	27.189	36.329	45.063	89.580	0.415	1.630	1468.4	348
400	3.232	34.209	3.207	27.234	36.379	45.116	85.546	0.458	1.570	1468.9	397
450	3.167	34.237	3.138	27.264	36.411	45.152	83.108	0.501	1.420	1469.5	447
500	3.109	34.260	3.077	27.288	36.439	45.182	81.119	0.542	1.270	1470.1	497
600	2.971	34.312	2.932	27.342	36.500	45.249	76.496	0.620	1.210	1471.2	596
700	2.816	34.356	2.771	27.391	36.557	45.314	72.306	0.694	1.100	1472.3	695
800	2.701	34.389	2.650	27.428	36.600	45.362	69.283	0.765	1.330	1473.4	794
900	2.552	34.426	2.494	27.471	36.651	45.420	65.566	0.832	1.080	1474.5	893
1000	2.439	34.452	2.376	27.502	36.688	45.463	62.984	0.897	1.100	1475.7	992
1100	2.322	34.482	2.252	27.536	36.728	45.509	60.052	0.958	1.080	1476.9	1091
1200	2.206	34.504	2.130	27.564	36.762	45.549	57.657	1.017	0.930	1478.1	1190
1300	2.114	34.528	2.031	27.591	36.795	45.586	55.297	1.074	0.850	1479.4	1289
1400	2.046	34.546	1.957	27.611	36.818	45.614	53.711	1.128	0.830	1480.8	1388
1500	1.992	34.560	1.896	27.627	36.837	45.635	52.528	1.181	0.690	1482.2	1487
1600	1.939	34.572	1.836	27.642	36.855	45.656	51.429	1.233	0.700	1483.7	1586
1700	1.894	34.583	1.781	27.655	36.871	45.675	50.464	1.284	0.790	1485.2	1684
1800	1.843	34.595	1.725	27.669	36.888	45.694	49.383	1.334	0.700	1486.6	1783
1900	1.800	34.606	1.675	27.681	36.902	45.712	48.493	1.383	0.720	1488.1	1882
2000	1.752	34.615	1.620	27.693	36.917	45.729	47.596	1.431	0.660	1489.6	1980
2100	1.713	34.624	1.578	27.702	36.929	45.743	46.911	1.478	0.490	1491.2	2079
2200	1.689	34.630	1.541	27.710	36.939	45.754	46.461	1.525	0.550	1492.7	2177
2300	1.659	34.635	1.502	27.717	36.948	45.766	45.991	1.571	0.530	1494.3	2276
2400	1.628	34.641	1.463	27.725	36.958	45.777	45.489	1.617	0.550	1495.9	2374
2500	1.602	34.646	1.429	27.731	36.966	45.787	45.137	1.662	0.570	1497.4	2473
2600	1.571	34.651	1.390	27.738	36.975	45.798	44.657	1.707	0.500	1499.0	2571
2700	1.557	34.654	1.367	27.742	36.980	45.805	44.542	1.752	0.490	1500.7	2669
2800	1.535	34.658	1.337	27.749	36.987	45.812	44.290	1.795	0.490	1502.3	2767
2900	1.517	34.662	1.310	27.752	36.993	45.821	44.065	1.841	0.390	1503.9	2866
3000	1.510	34.664	1.293	27.755	36.997	45.825	44.112	1.885	0.460	1505.6	2964
3100	1.495	34.667	1.269	27.759	37.002	45.832	43.979	1.929	0.380	1507.2	3062
3200	1.486	34.669	1.250	27.762	37.006	45.837	43.974	1.973	0.380	1508.9	3160
3300	1.474	34.671	1.229	27.765	37.011	45.843	43.905	2.017	0.340	1510.6	3258
3400	1.468	34.673	1.213	27.768	37.014	45.847	43.962	2.061	0.350	1512.3	3356
3500	1.460	34.675	1.195	27.771	37.018	45.851	43.976	2.104	0.360	1513.9	3454
3600	1.446	34.677	1.171	27.775	37.023	45.858	43.831	2.148	0.430	1515.6	3552
3700	1.443	34.679	1.158	27.777	37.026	45.861	43.950	2.192	0.280	1517.3	3650
3800	1.444	34.680	1.148	27.778	37.028	45.864	44.126	2.236	0.280	1519.0	3747
3900	1.446	34.681	1.139	27.780	37.030	45.866	44.347	2.280	0.280	1520.8	3845
4000	1.449	34.682	1.131	27.781	37.032	45.868	44.582	2.325	0.280	1522.5	3943
4100	1.449	34.683	1.121	27.782	37.034	45.871	44.769	2.370	0.310	1524.2	4041
4200	1.452	34.684	1.113	27.784	37.035	45.873	45.014	2.415	0.240	1526.0	4138
4300	1.457	34.685	1.106	27.785	37.037	45.875	45.264	2.460	0.220	1527.7	4236
4400	1.465	34.685	1.102	27.785	37.038	45.876	45.620	2.505	0.160	1529.5	4333
4500	1.471	34.685	1.097	27.786	37.039	45.877	45.951	2.551	0.190	1531.3	4431
4600	1.480	34.686	1.094	27.787	37.039	45.878	46.313	2.597	0.190	1533.1	4528
4700	1.489	34.686	1.091	27.787	37.040	45.879	46.670	2.643	0.180	1534.8	4626
4800	1.497	34.687	1.087	27.788	37.041	45.880	47.043	2.690	0.200	1536.6	4723
4900	1.507	34.687	1.085	27.788	37.041	45.880	47.453	2.738	0.160	1538.4	4820
4992	1.516	34.687	1.082	27.789	37.042	45.881	47.809	2.782		1540.0	4910

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
1	2.660	33.006	8.89	116.8	27.6	1.28	12.7	0.24	2.660	26.322	35.516	44.300	1
20	2.210	33.011	8.74	113.6	27.8	1.35	13.4	0.25	2.208	26.363	35.581	44.388	20
40	1.831	33.045	8.46	108.9	33.8	1.59	16.6	0.25	1.828	26.418	35.657	44.483	40
60	1.386	33.165	7.66	97.5	52.7	2.17	26.8	0.28	1.381	26.543	35.805	44.653	80
119	2.811	33.675	2.55	33.8	89.1	3.00	40.9	0.07	2.804	26.845	36.020	44.785	119
157	3.435	33.932	0.50	6.7	108.5	3.31	46.0	0.01	3.426	26.993	36.131	44.861	157
199	3.461	34.017	0.44	5.9	115.2	3.33	46.2	0.00	3.449	27.059	36.194	44.922	200
248	3.399	34.098	0.29	3.9	123.0	3.28	46.0	0.00	3.383	27.130	36.267	44.997	249
298	3.352	34.141	0.34	4.6	127.8	3.25	45.6	0.00	3.326	27.169	36.309	45.041	299
397	3.206	34.219	0.37	5.0	136.2	3.22	44.9	0.00	3.170	27.246	36.393	45.132	399
494	3.080	34.272	0.33	4.4	142.3	3.22	45.1	0.00	3.023	27.302	36.455	45.201	497
600	2.945	34.318	0.37	4.9	148.7	3.21	44.9	0.00	2.862	27.353	36.514	45.267	604
794	2.678	34.408	0.48	6.4	161.4	3.19	44.4	0.00	2.641	27.444	36.616	45.379	799
994	2.428	34.456	0.60	7.9	167.7	3.17	44.3	0.00	2.379	27.505	36.690	45.466	1001
1236	2.151	34.520	0.92	12.0	175.7	3.10	43.3	0.00	2.090	27.580	36.780	45.569	1246
1483	1.996	34.556	1.30	16.9	175.1	3.03	42.4	0.00	1.919	27.622	36.831	45.628	1496
1719	1.866	34.591	1.64	21.3	174.8	2.96	41.6	0.00	1.772	27.662	36.878	45.683	1735
1970	1.751	34.618	2.03	26.3	171.1	2.86	40.5	0.00	1.639	27.693	36.917	45.728	1990
2471	1.591	34.650	2.67	34.4	165.0	2.73	39.8	0.00	1.461	27.732	36.965	45.785	2499
2955	1.499	34.665	3.05	39.2	161.2	2.64	37.6	0.00	1.328	27.754	36.994	45.820	2992
3447	1.455	34.676	3.32	42.5	158.6	2.59	37.0	0.00	1.240	27.769	37.013	45.844	3494
3934	1.446	34.682			156.6	2.57	36.4	0.00	1.182	27.778	37.025	45.859	3992
4417	1.471	34.687	3.58	45.8	156.5	2.55	36.3	0.00	1.154	27.793	37.033	45.868	4487
4896	1.516	34.687	3.64	46.5	156.7	2.51	36.2	0.00	1.143	27.784	37.034	45.870	4979

KOROLEV Sta. 16



AKADEMIK KOROLEV SAGA II

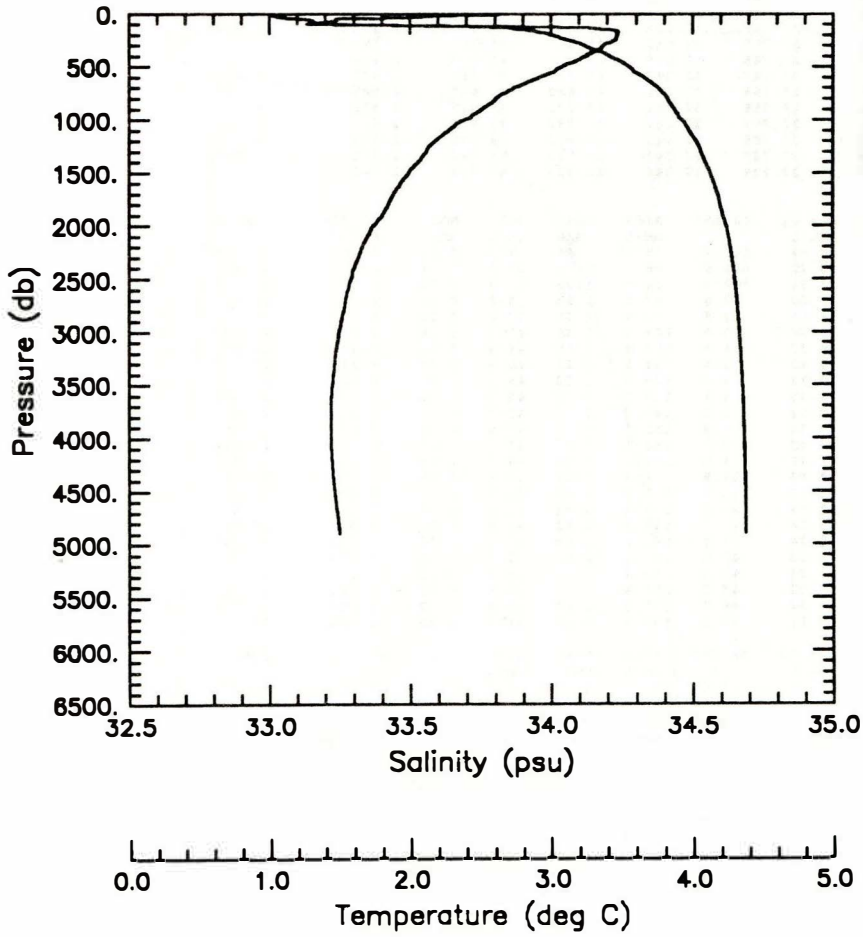
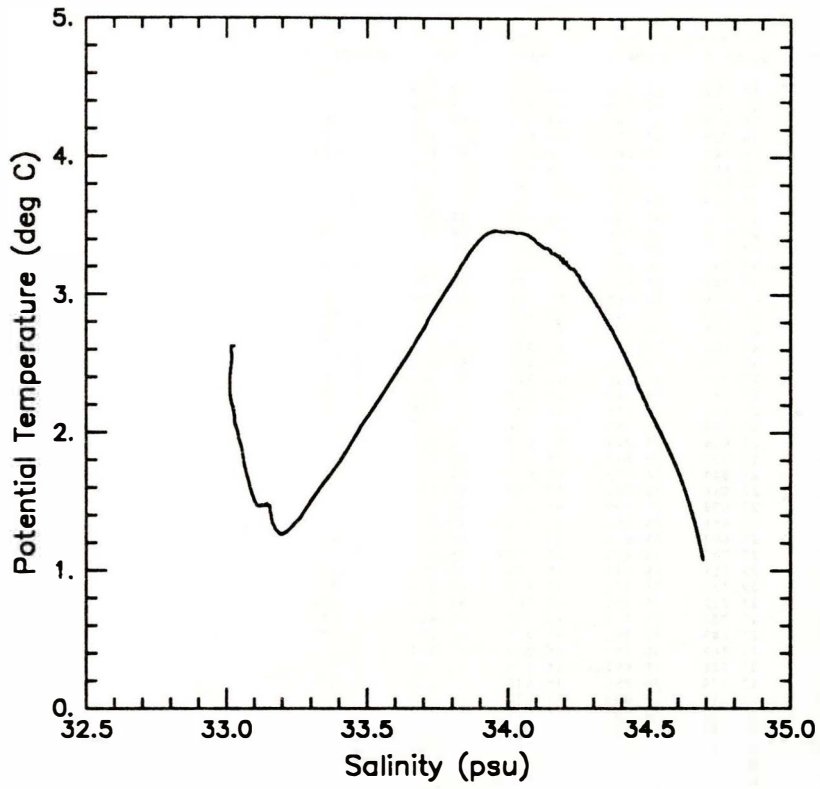
STATION 17

 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 46 37.9N 157 20.0E 5/15/87 2130 GMT 4811 M

CTD DATA												SOUND VEL		DEPTH
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	M/S		M		
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH					
0	2.625	33.024	2.625	26.340	35.535	44.320	167.393	0.000		1458.2		0		
20	2.249	33.019	2.248	26.365	35.581	44.386	165.041	0.033		1456.9		19		
40	1.806	33.062	1.804	26.434	35.674	44.500	158.596	0.066	3.580	1455.3		39		
60	1.476	33.146	1.473	26.524	35.781	44.624	150.044	0.096	2.830	1454.3		59		
80	1.381	33.161	1.378	26.542	35.805	44.652	148.293	0.126	2.970	1454.2		79		
100	1.469	33.276	1.465	26.629	35.884	44.726	140.125	0.155	5.030	1455.1		99		
150	3.418	33.906	3.408	26.975	36.114	44.845	108.317	0.215	2.580	1465.2		149		
200	3.469	34.003	3.456	27.047	36.182	44.910	101.892	0.267	1.790	1466.4		199		
250	3.450	34.064	3.434	27.098	36.233	44.961	97.441	0.317	1.950	1467.2		248		
300	3.371	34.118	3.352	27.149	36.287	45.019	92.975	0.364	1.530	1467.7		298		
350	3.314	34.167	3.291	27.193	36.334	45.068	89.155	0.410	1.840	1468.4		348		
400	3.247	34.208	3.221	27.233	36.377	45.113	85.741	0.454	1.460	1469.0		397		
450	3.172	34.246	3.143	27.270	36.418	45.158	82.478	0.496	1.500	1469.5		447		
500	3.078	34.274	3.046	27.302	36.454	45.198	79.776	0.536	1.340	1470.0		497		
600	2.915	34.327	2.876	27.359	36.520	45.272	74.823	0.614	1.420	1471.0		596		
700	2.736	34.378	2.692	27.416	36.586	45.346	69.863	0.696	1.210	1471.9		695		
800	2.609	34.411	2.559	27.454	36.630	45.397	66.700	0.754	0.870	1473.1		794		
900	2.510	34.435	2.454	27.482	36.664	45.436	64.415	0.820	0.990	1474.3		893		
1000	2.387	34.461	2.324	27.513	36.702	45.479	61.795	0.883	1.270	1475.5		992		
1100	2.275	34.487	2.206	27.544	36.738	45.522	61.152	0.943	0.950	1476.7		1091		
1200	2.180	34.512	2.104	27.572	36.771	45.566	56.817	1.001	0.950	1478.0		1190		
1300	2.115	34.529	2.033	27.592	36.795	45.586	55.277	1.057	0.710	1479.4		1289		
1400	2.056	34.544	1.967	27.609	36.816	45.611	53.938	1.112	0.820	1480.8		1388		
1500	1.991	34.561	1.895	27.628	36.838	45.637	52.405	1.165	0.730	1482.2		1487		
1600	1.934	34.576	1.831	27.645	36.858	45.660	51.096	1.217	0.700	1483.7		1586		
1700	1.884	34.588	1.774	27.659	36.875	45.680	50.040	1.267	0.710	1485.1		1684		
1800	1.845	34.598	1.728	27.670	36.889	45.696	49.247	1.317	0.580	1486.7		1783		
1900	1.804	34.607	1.679	27.681	36.903	45.711	48.477	1.366	0.650	1488.2		1882		
2000	1.738	34.619	1.606	27.697	36.922	45.735	47.107	1.414	0.810	1489.6		1980		
2100	1.700	34.627	1.560	27.707	36.934	45.749	46.428	1.460	0.630	1491.1		2079		
2200	1.664	34.634	1.516	27.715	36.945	45.762	45.842	1.506	0.590	1492.6		2177		
2300	1.634	34.640	1.478	27.723	36.955	45.774	45.346	1.552	0.530	1494.2		2276		
2400	1.604	34.646	1.440	27.730	36.964	45.785	44.888	1.597	0.560	1495.8		2374		
2500	1.584	34.649	1.411	27.735	36.971	45.793	44.648	1.642	0.550	1497.4		2473		
2600	1.562	34.654	1.381	27.741	36.978	45.802	44.384	1.686	0.500	1499.0		2571		
2700	1.541	34.657	1.351	27.746	36.985	45.810	44.118	1.730	0.460	1500.6		2669		
2800	1.511	34.656	1.312	27.749	36.989	45.815	44.093	1.775	0.450	1502.3		2767		
2900	1.511	34.663	1.304	27.754	36.995	45.823	43.862	1.819	0.440	1503.9		2866		
3000	1.496	34.667	1.279	27.758	37.001	45.830	43.708	1.862	0.430	1505.5		2964		
3100	1.486	34.669	1.260	27.761	37.005	45.835	43.696	1.906	0.440	1507.2		3062		
3200	1.473	34.671	1.238	27.765	37.010	45.841	43.609	1.950	0.340	1508.8		3160		
3300	1.465	34.673	1.220	27.768	37.014	45.846	43.639	1.993	0.440	1510.5		3258		
3400	1.457	34.675	1.202	27.770	37.017	45.850	43.651	2.037	0.390	1512.2		3356		
3500	1.449	34.677	1.184	27.773	37.021	45.855	43.669	2.081	0.420	1513.9		3454		
3600	1.443	34.679	1.168	27.776	37.025	45.859	43.692	2.124	0.370	1515.6		3552		
3700	1.440	34.680	1.155	27.778	37.027	45.863	43.800	2.168	0.300	1517.3		3650		
3800	1.440	34.681	1.144	27.780	37.030	45.866	43.963	2.212	0.310	1519.0		3747		
3900	1.441	34.682	1.134	27.781	37.031	45.868	44.186	2.256	0.310	1520.8		3845		
4000	1.441	34.683	1.124	27.783	37.034	45.871	44.354	2.300	0.200	1522.5		3943		
4100	1.442	34.684	1.114	27.784	37.036	45.873	44.543	2.345	0.220	1524.2		4041		
4200	1.446	34.685	1.077	27.785	37.037	45.875	44.819	2.389	0.280	1526.0		4138		
4300	1.452	34.686	1.101	27.786	37.039	45.877	45.102	2.434	0.250	1527.7		4236		
4400	1.458	34.686	1.096	27.787	37.040	45.878	45.480	2.480	0.210	1529.5		4333		
4500	1.466	34.687	1.092	27.788	37.041	45.879	45.752	2.525	0.160	1531.3		4431		
4600	1.475	34.687	1.089	27.788	37.041	45.880	46.121	2.571	0.180	1533.0		4528		
4700	1.484	34.688	1.086	27.789	37.042	45.881	46.500	2.617	0.120	1534.8		4626		
4800	1.493	34.688	1.083	27.789	37.042	45.882	46.887	2.664	0.180	1536.6		4723		
4896	1.500	34.688	1.078	27.790	37.043	45.883	47.207	2.709		1538.3		4816		

NISKIN BOTTLE DATA														
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SI03	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M		DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
1	2.775	33.029	8.79	115.9	27.7	1.32	13.5	0.25	2.775	26.331	35.518	44.295	1	
20	2.553	33.028	8.83	115.7	27.5	1.32	13.5	0.25	2.552	26.349	35.548	44.337	20	
40	2.263	33.033	8.64	112.4	29.0	1.43	14.4	0.26	2.261	26.376	35.591	44.395	40	
81	1.380	33.151	7.68	97.8	50.7	2.15	26.5	0.28	1.376	26.535	35.797	44.645	81	
121	1.663	33.345	5.97	76.6	64.5	2.45	32.1	0.22	1.657	26.671	35.914	44.744	121	
162	3.455	33.947	0.40	5.4	108.2	3.31	46.9	0.01	3.445	27.003	36.140	44.869	162	
199	3.453	34.010	0.32	4.3	114.3	3.28	47.0	0.00	3.440	27.054	36.190	44.918	200	
250	3.431	34.086	0.32	4.3	121.2	3.27	46.3	0.00	3.415	27.117	36.253	44.982	251	
299	3.368	34.137	0.30	4.0	126.5	3.24	46.0	0.00	3.349	27.164	36.302	45.034	300	
398	3.229	34.220	0.32	4.3	135.6	3.21	45.3	0.00	3.203	27.244	36.389	45.126	400	
497	3.075	34.278	0.32	4.3	143.2	3.22	45.1	0.00	3.043	27.305	36.457	45.202	500	
596	2.911	34.330	0.34	4.5	150.4	3.19	45.1	0.00	2.872	27.362	36.522	45.275	600	
791	2.587	34.420	0.44	5.8	163.3	3.16	44.8	0.00	2.537	27.463	36.640	45.408	797	
989	2.355	34.469	0.67	8.8	170.1	3.13	44.2	0.00	2.292	27.523	36.713	45.492	997	
1236	2.119	34.527	1.08	14.1	172.7	3.05	43.3	0.00	2.040	27.590	36.792	45.584	1246	
1482	1.979	34.565	1.38	18.0	175.7	2.98	42.5	0.00	1.883	27.632	36.843	45.642	1495	
1728	1.858	34.597	1.71	22.2	174.7	2.92	41.5	0.00	1.745	27.669	36.886	45.692	1744	
1974	1.728	34.624	2.11	27.3	172.4	2.83	40.3	0.00	1.596	27.701	36.927	45.740	1994	
2466	1.580	34.653	2.69	34.6	166.8	2.70	38.5	0.00	1.408	27.738	36.974	45.797	2494	
2957	1.499	34.658	3.07	39.4	162.4	2.62	37.9	0.00	1.283	27.759	37.002	45.831	2994	
3446	1.452	34.679	3.33	42.6	160.1	2.56	36.9	0.00	1.188	27.775	37.022	45.856	3493	
3949	1.443	34.685	3.51	44.9	157.5	2.52	36.5	0.00	1.126	27.784	37.035	45.872	4008	
4460	1.470	34.688	3.60	46.0	157.2	2.49	36.0	0.00	1.097	27.788	37.041	45.879	4532	
4802	1.500	34.689							1.068	27.791	37.045	45.885	4883	

KOROLEV Sta. 17

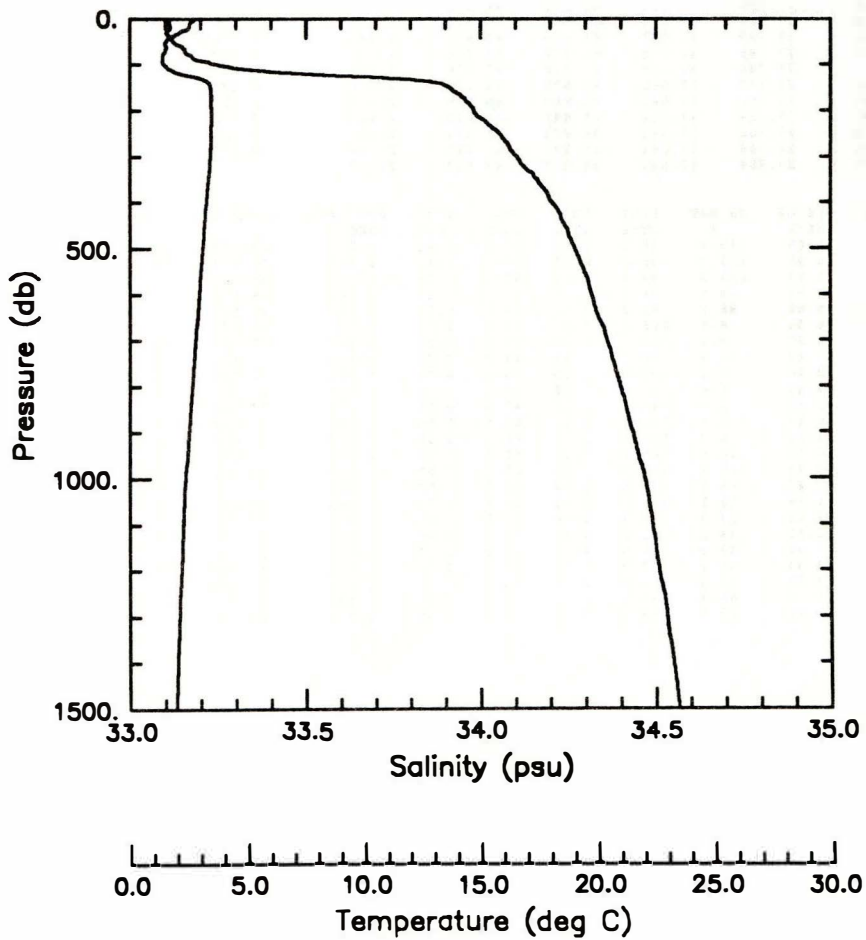
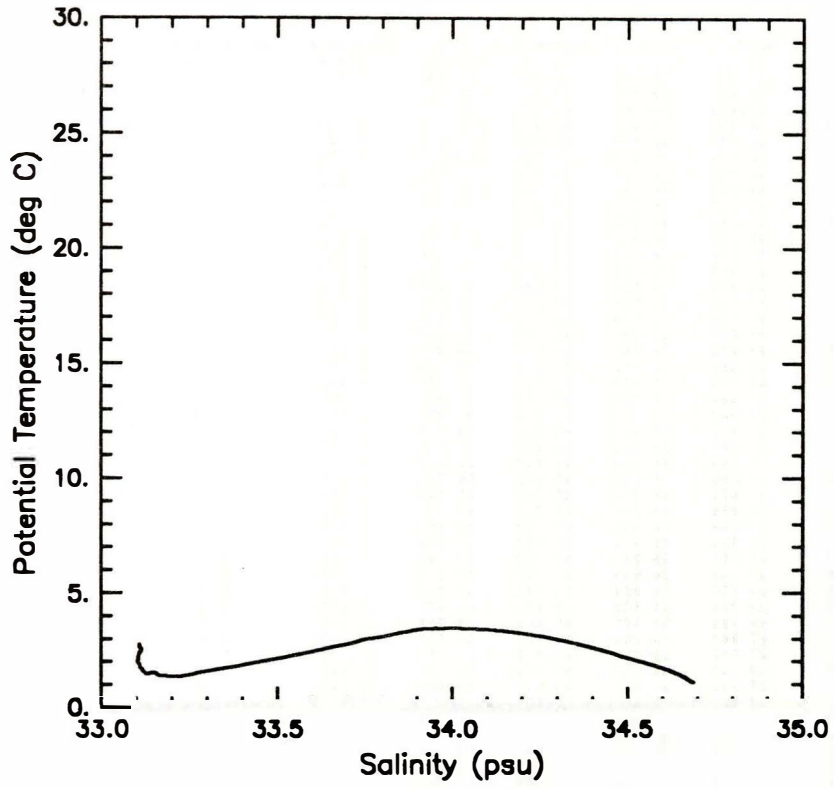


AKADEMIK KOROLEV SAGA II STATION 18
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 46 24.9N 157 29.9E 5/16/87 242 4884

CTD DATA	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH		
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	2.812	33.105	2.312	26.389	35.573	44.347	162.759	0.000		1459.1	0
20	2.460	33.111	2.459	26.423	35.626	44.418	159.583	0.032		1457.9	19
40	1.750	33.113	1.748	26.478	35.720	44.549	154.367	0.064	2.740	1455.2	39
60	1.516	33.142	1.514	26.518	35.773	44.614	150.572	0.094	2.380	1454.5	59
80	1.410	33.169	1.406	26.547	35.808	44.654	147.817	0.124	2.710	1454.4	79
100	1.452	33.249	1.447	26.609	35.866	44.708	142.048	0.153	4.060	1455.0	99
150	3.424	33.910	3.415	26.977	36.115	44.847	108.118	0.215	3.070	1465.2	149
200	3.472	33.981	3.459	27.029	36.164	44.893	103.560	0.267	1.640	1466.3	199
250	3.452	34.053	3.436	27.089	36.224	44.952	98.300	0.318	1.860	1467.2	248
300	3.414	34.102	3.394	27.132	36.269	44.998	94.593	0.366	1.690	1467.9	298
350	3.330	34.161	3.308	27.187	36.327	45.060	89.731	0.412	1.850	1468.4	348
400	3.249	34.204	3.222	27.230	36.374	45.110	86.022	0.456	1.630	1469.0	397
450	3.163	34.242	3.134	27.268	36.416	45.156	82.724	0.498	1.420	1469.5	447
500	3.092	34.269	3.060	27.296	36.448	45.192	80.284	0.539	1.410	1470.0	497
600	2.945	34.317	2.907	27.348	36.507	45.258	75.900	0.617	1.160	1471.1	596
700	2.790	34.361	2.746	27.398	36.565	45.323	71.658	0.691	1.220	1472.2	695
800	2.652	34.399	2.601	27.441	36.615	45.380	68.005	0.760	1.210	1473.3	794
900	2.508	34.435	2.451	27.482	36.664	45.436	64.429	0.827	1.200	1474.3	893
1000	2.354	34.468	2.291	27.522	36.712	45.491	60.902	0.889	1.110	1475.4	992
1100	2.262	34.490	2.192	27.548	36.742	45.527	58.815	0.949	0.940	1476.7	1091
1200	2.186	34.510	2.110	27.570	36.769	45.557	57.006	1.007	0.950	1478.0	1190
1300	2.099	34.532	2.017	27.596	36.799	45.592	54.857	1.063	0.710	1479.3	1289
1400	2.031	34.550	1.942	27.616	36.824	45.620	53.233	1.117	0.810	1480.7	1388
1500	1.971	34.565	1.876	27.633	36.844	45.644	51.864	1.169	0.670	1482.1	1487
1600	1.917	34.579	1.814	27.649	36.863	45.666	50.652	1.2212	0.870	1483.6	1586
1700	1.856	34.594	1.746	27.666	36.884	45.689	49.288	1.271	0.720	1485.0	1684
1800	1.808	34.604	1.690	27.678	36.899	45.707	48.364	1.319	0.570	1486.5	1783
1900	1.765	34.613	1.640	27.689	36.913	45.724	47.537	1.367	0.670	1488.0	1882
2000	1.727	34.621	1.595	27.699	36.925	45.738	46.892	1.415	0.530	1489.5	1980
2100	1.698	34.627	1.558	27.707	36.934	45.749	46.407	1.461	0.490	1491.1	2079
2200	1.666	34.633	1.518	27.715	36.944	45.761	45.896	1.507	0.510	1492.6	2177
2300	1.630	34.640	1.474	27.723	36.955	45.775	45.289	1.553	0.620	1494.2	2276
2400	1.597	34.646	1.433	27.731	36.965	45.787	44.759	1.598	0.590	1495.7	2374
2500	1.572	34.651	1.400	27.737	36.973	45.795	44.404	1.643	0.550	1497.3	2473
2600	1.548	34.655	1.368	27.743	36.981	45.805	44.096	1.687	0.460	1498.9	2571
2700	1.530	34.659	1.341	27.748	36.987	45.813	43.890	1.731	0.290	1500.5	2669
2800	1.512	34.651	1.322	27.751	36.992	45.819	43.827	1.775	2.472	1502.2	2767
2900	1.500	34.664	1.293	27.756	36.998	45.826	43.644	1.818	0.480	1503.8	2866
3000	1.485	34.667	1.269	27.760	37.003	45.832	43.515	1.862	0.310	1505.5	2964
3100	1.476	34.669	1.250	27.763	37.007	45.837	43.507	1.906	0.300	1507.1	3062
3200	1.469	34.670	1.234	27.764	37.009	45.841	43.658	1.949	0.390	1508.8	3160
3300	1.459	34.672	1.214	27.767	37.013	45.846	43.636	1.993	0.340	1510.5	3258
3400	1.452	34.674	1.197	27.770	37.017	45.850	43.650	2.036	0.310	1512.2	3356
3500	1.453	34.675	1.188	27.771	37.019	45.853	43.866	2.080	0.330	1513.9	3454
3600	1.446	34.677	1.171	27.774	37.023	45.857	43.887	2.124	0.380	1515.6	3552
3700	1.439	34.679	1.154	27.777	37.026	45.862	43.901	2.168	0.340	1517.3	3650
3800	1.435	34.680	1.139	27.779	37.029	45.865	43.985	2.212	0.300	1519.0	3747
3900	1.435	34.681	1.129	27.780	37.031	45.868	44.176	2.256	0.260	1520.7	3845
4000	1.439	34.683	1.122	27.782	37.034	45.871	44.346	2.300	0.230	1522.5	3943
4100	1.443	34.684	1.115	27.783	37.035	45.873	44.620	2.345	0.220	1524.2	4041
4200	1.446	34.684	1.107	27.785	37.037	45.875	44.864	2.390	0.290	1526.0	4138
4300	1.449	34.685	1.098	27.786	37.039	45.877	45.078	2.434	0.300	1527.7	4236
4400	1.455	34.686	1.093	27.787	37.040	45.879	45.367	2.480	0.200	1529.5	4333
4500	1.461	34.687	1.087	27.788	37.041	45.880	45.685	2.525	0.190	1531.2	4431
4600	1.469	34.687	1.084	27.788	37.042	45.881	46.029	2.571	0.160	1533.0	4528
4700	1.479	34.688	1.081	27.789	37.042	45.882	46.409	2.617	0.150	1534.8	4626
4800	1.489	34.688	1.079	27.789	37.043	45.882	46.798	2.664	0.150	1536.6	4723
4900	1.500	34.688	1.078	27.789	37.043	45.883	47.246	2.711	0.080	1538.4	4820
4970	1.508	34.688	1.077	27.789	37.043	45.882	47.576	2.744		1539.6	4888

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	3.048	33.118	8.46	112.4	38.4	1.65	19.9	0.24	3.048	26.379	35.550	44.312	2	
22	2.292	33.118	8.40	109.4	38.7	1.71	20.4	0.24	2.292	26.442	35.654	44.454	22	
40	1.575	33.129	8.01	102.5	44.6	1.99	23.5	0.24	1.573	26.504	35.755	44.593	40	
80	1.324	33.149	7.70	97.9	49.8	2.09	25.0	0.25	1.320	26.537	35.802	44.653	80	
120	2.278	33.528	4.04	52.8	77.5	2.71	37.0	0.13	2.272	26.771	35.978	44.773	120	
160	3.477	33.955	0.39	5.3	109.5	3.30	47.2	0.01	3.467	27.008	36.143	44.871	160	
200	3.459	34.029	0.33	4.5	117.0	3.28	46.8	0.00	3.446	27.069	36.204	44.932	200	
249	3.408	34.102	0.40	5.4	124.1	3.26	46.4	0.00	3.392	27.132	36.269	44.998	250	
301	3.341	34.149	0.33	4.4	129.5	3.22	46.1	0.00	3.322	27.176	36.316	45.048	302	
396	3.198	34.224	0.35	4.7	137.7	3.19	45.6	0.00	3.172	27.250	36.396	45.135	398	
498	3.048	34.283	0.32	4.3	145.5	3.182	45.7	0.00	3.016	27.311	36.465	45.211	501	
600	2.907	34.331	0.36	4.8	151.7	3.182	45.6	0.00	2.869	27.363	36.524	45.276	604	
789	2.651	34.401	0.43	5.7	162.4	3.17	45.3	0.00	2.600	27.442	36.616	45.381	795	
991	2.388	34.465	0.61	8.0	170.1	3.14	44.7	0.00	2.325	27.517	36.705	45.483	999	
1236	2.138	34.523	0.98	12.8	176.4	3.06	43.6	0.00	2.059	27.585	36.786	45.577	1246	
1484	1.978	34.565	1.32	17.2	177.5	3.00	42.7	0.00	1.882	27.632	36.843	45.642	1497	
1731	1.827	34.600	1.79	23.2	175.4	2.90	41.6	0.00	1.714	27.673	36.893	45.700	1747	
1976	1.716	34.624	2.14	27.7	173.3	2.82	40.6	0.00	1.584	27.702	36.929	45.742	1996	
2467	1.561	34.653	2.74	35.2	167.2	2.69	39.2	0.00	1.389	27.740	36.978	45.800	2495	
2957	1.475	34.658	3.13	40.1	162.3	2.60	37.9	0.00	1.259	27.761	37.005	45.800	2994	
3532	1.443	34.678	3.38	43.3	159.4	2.54	36.8	0.00	1.179	27.775	37.023	45.857	3581	
3929	1.439	34.684	3.52	45.0	157.4	2.52	36.9	0.00	1.121	27.783	37.035	45.872	3987	
4399	1.450	34.686	3.62	46.2	157.3	2.49	36.4	0.00	1.083	27.788	37.041	45.880	4469	
4874	1.508	34.690	3.61	46.1	157.4	2.48	36.4	0.00	1.088	27.790	37.044	45.882	4957	
CAST 2	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
501	3.052	34.294	0.50	6.7	144.0	3.19	45.5	0.00	3.052	27.309	36.461	45.204	504	
CAST 3	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	3.100	33.113	8.48	112.7										

KOROLEV Sta. 18

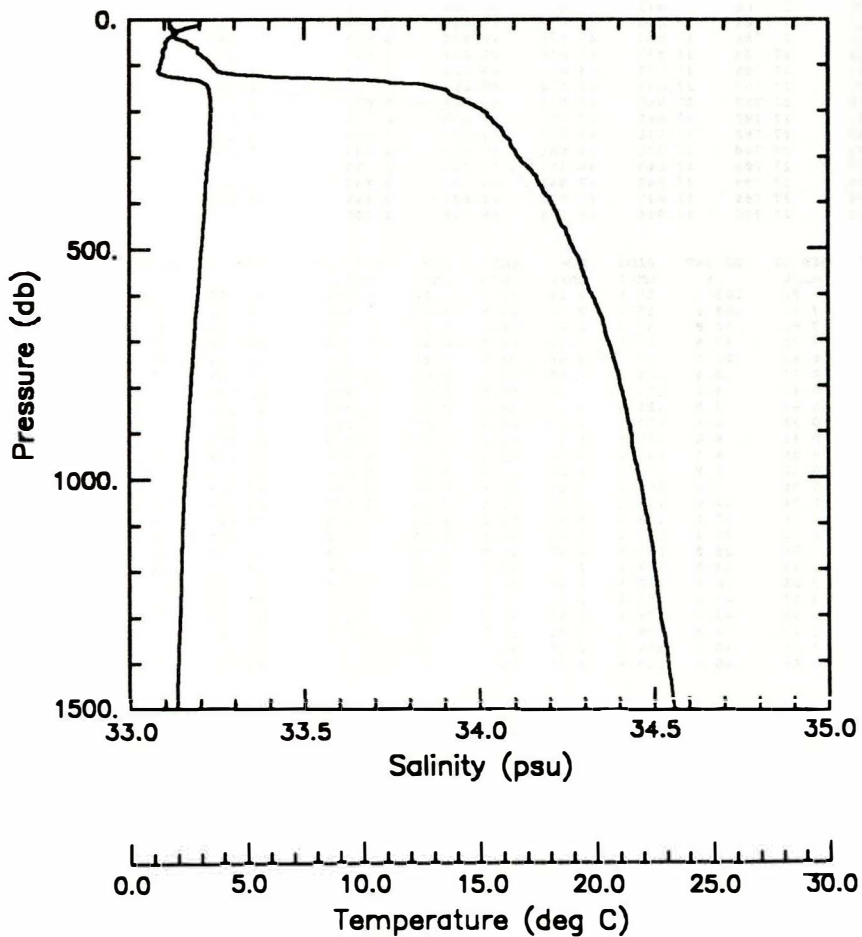
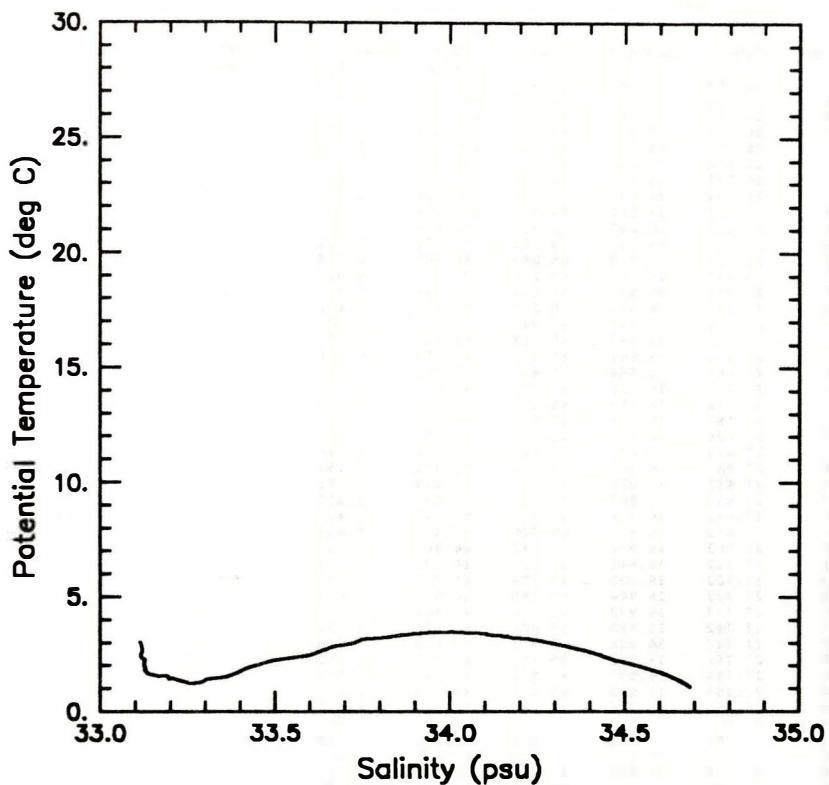


AKADEMIK KOROLEV SAGA II STATION 19
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 46 12.0N 157 43.0E 5/16/87 GMT 1042 M 4858

CTD DATA				SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C								
0	3.025	33.113	3.025	26.377	35.549	44.312	163.880	0.000		1460.1	0
20	2.397	33.121	2.396	26.436	35.642	44.437	158.403	0.032		1457.7	19
40	1.723	33.135	1.721	26.498	35.741	44.571	152.497	0.063	3.040	1455.1	39
60	1.532	33.184	1.529	26.550	35.804	44.643	147.522	0.093	2.480	1454.6	59
80	1.434	33.208	1.430	26.577	35.836	44.680	145.011	0.123	2.150	1454.5	79
100	1.318	33.237	1.313	26.608	35.872	44.722	142.095	0.151	2.840	1454.4	99
150	3.386	33.883	3.377	26.959	36.100	44.834	109.792	0.216	3.900	1465.0	149
200	3.485	34.013	3.472	27.053	36.187	44.914	101.302	0.268	2.150	1466.4	199
250	3.453	34.070	3.437	27.102	36.237	44.965	97.027	0.318	1.600	1467.2	248
300	3.376	34.112	3.356	27.143	36.282	45.013	93.495	0.365	1.790	1467.8	298
350	3.293	34.167	3.271	27.195	36.337	45.072	88.950	0.411	1.610	1468.3	348
400	3.216	34.206	3.190	27.234	36.380	45.118	85.548	0.455	1.460	1468.8	397
450	3.163	34.238	3.134	27.265	36.413	45.153	82.983	0.497	1.530	1469.5	447
500	3.080	34.270	3.047	27.298	36.450	45.194	80.144	0.538	1.490	1470.0	497
600	2.925	34.323	2.887	27.355	36.515	45.266	75.263	0.615	1.480	1471.0	596
700	2.761	34.368	2.717	27.406	36.575	45.334	70.836	0.688	1.220	1472.0	695
800	2.621	34.404	2.571	27.448	36.623	45.389	67.308	0.757	1.090	1473.1	794
900	2.478	34.434	2.421	27.484	36.667	45.440	64.207	0.823	1.070	1474.2	893
1000	2.364	34.458	2.301	27.513	36.702	45.481	61.778	0.886	1.080	1475.4	992
1100	2.269	34.483	2.200	27.542	36.736	45.520	59.379	0.946	0.960	1476.7	1091
1200	2.209	34.502	2.133	27.562	36.760	45.547	57.840	1.005	0.800	1478.1	1190
1300	2.152	34.518	2.069	27.580	36.782	45.572	56.453	1.062	0.870	1479.5	1289
1400	2.070	34.540	1.981	27.604	36.810	45.604	54.437	1.117	0.720	1480.9	1388
1500	2.004	34.557	1.908	27.624	36.834	45.631	52.839	1.171	0.920	1482.3	1487
1600	1.935	34.573	1.831	27.643	36.856	45.658	51.292	1.223	0.780	1483.7	1586
1700	1.879	34.587	1.768	27.659	36.876	45.680	50.020	1.273	0.810	1485.1	1684
1800	1.840	34.598	1.722	27.671	36.890	45.697	49.177	1.323	0.720	1486.6	1783
1900	1.770	34.611	1.646	27.688	36.911	45.721	47.727	1.371	0.760	1488.0	1882
2000	1.723	34.621	1.591	27.699	36.925	45.738	46.853	1.419	0.620	1489.5	1980
2100	1.683	34.628	1.543	27.708	36.937	45.753	46.166	1.465	0.660	1491.0	2079
2200	1.650	34.634	1.502	27.717	36.947	45.765	45.625	1.511	0.500	1492.6	2177
2300	1.624	34.639	1.468	27.723	36.955	45.775	45.277	1.556	0.470	1494.2	2276
2400	1.596	34.645	1.432	27.730	36.964	45.786	44.852	1.602	0.560	1495.7	2374
2500	1.570	34.649	1.397	27.736	36.973	45.796	44.470	1.646	0.450	1497.3	2473
2600	1.548	34.653	1.367	27.742	36.980	45.804	44.204	1.691	0.520	1498.9	2571
2700	1.526	34.657	1.337	27.747	36.986	45.813	43.936	1.735	0.470	1500.5	2669
2800	1.511	34.661	1.313	27.751	36.992	45.819	43.794	1.779	0.450	1502.2	2767
2900	1.497	34.663	1.290	27.755	36.997	45.826	43.668	1.822	0.430	1503.8	2866
3000	1.488	34.665	1.271	27.758	37.001	45.830	43.690	1.866	0.360	1505.5	2964
3100	1.477	34.668	1.251	27.761	37.005	45.836	43.647	1.909	0.380	1507.1	3062
3200	1.467	34.670	1.232	27.765	37.010	45.841	43.599	1.953	0.370	1508.8	3160
3300	1.455	34.672	1.210	27.768	37.014	45.847	43.527	1.997	0.420	1510.5	3258
3400	1.450	34.674	1.195	27.770	37.017	45.851	43.623	2.040	0.310	1512.2	3356
3500	1.446	34.675	1.181	27.772	37.020	45.854	43.712	2.084	0.320	1513.9	3454
3600	1.441	34.677	1.166	27.775	37.024	45.859	43.765	2.128	0.370	1515.6	3552
3700	1.437	34.679	1.152	27.777	37.027	45.862	43.843	2.171	0.310	1517.3	3650
3800	1.436	34.680	1.141	27.779	37.029	45.865	44.014	2.215	0.300	1519.0	3747
3900	1.434	34.681	1.127	27.781	37.032	45.868	44.139	2.259	0.240	1520.7	3845
4000	1.437	34.682	1.120	27.782	37.033	45.871	44.371	2.304	0.320	1522.5	3943
4100	1.437	34.683	1.109	27.784	37.036	45.873	44.536	2.348	0.240	1524.2	4041
4200	1.441	34.684	1.102	27.785	37.037	45.875	44.800	2.393	0.220	1525.9	4138
4300	1.447	34.685	1.097	27.786	37.038	45.877	45.104	2.438	0.220	1527.7	4236
4400	1.455	34.685	1.093	27.786	37.039	45.878	45.436	2.483	0.180	1529.5	4333
4500	1.462	34.686	1.088	27.787	37.040	45.879	45.762	2.528	0.220	1531.2	4431
4600	1.471	34.686	1.085	27.788	37.041	45.880	46.126	2.574	0.180	1533.0	4528
4700	1.479	34.687	1.081	27.788	37.042	45.881	46.492	2.621	0.170	1534.8	4626
4800	1.488	34.687	1.078	27.788	37.042	45.882	46.873	2.667	0.180	1536.6	4723
4900	1.496	34.687	1.074	27.789	37.043	45.883	47.227	2.714	0.200	1538.3	4820
4944	1.501	34.688	1.074	27.789	37.043	45.883	47.407	2.735		1539.1	4863

NISKIN BOTTLE DATA														
CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SiO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
	2	3.030	33.120	8.69	115.4	35.0	1.53	17.6	0.25	3.030	26.382	35.554	44.317	2
	22	2.310	33.123	8.49	110.7	36.0	1.68	19.2	0.25	2.309	26.444	35.655	44.455	22
	41	1.713	33.132	8.12	104.2	42.9	1.88	22.2	0.24	1.710	26.496	35.740	44.571	41
	80	1.452	33.212	7.74	98.7	54.7	2.20	27.6	0.24	1.448	26.579	35.836	44.680	80
	120	1.362	33.310D	6.80	86.6	61.2	2.37	30.6	0.27	1.357	26.664	35.924	44.771	120
	159	3.431	33.915	0.51	6.9	106.1	3.27	46.6	0.00	3.423	26.980	36.118	44.849	159
	199	3.486	34.013D	0.37	5.0	113.7	3.26	46.3	0.00	3.477	27.053	36.187	44.913	200
	250	3.453	34.069	0.49	6.6	118.1	3.24	46.0	0.00	3.442	27.101	36.235	44.963	251
	300	3.387	34.116	0.40	5.4	123.8	3.20	45.6	0.00	3.366	27.146	36.283	45.014	301
	399	3.208	34.208	0.40	5.4	133.5	3.18	45.3	0.00	3.158	27.238	36.386	45.126	401
	499	3.072	34.272	0.35	4.7	140.7	3.18	45.3	0.00	3.003	27.304	36.458	45.205	502
	597	2.923	34.327	0.42	5.6	147.0	3.17	45.0	0.00	2.884	27.358	36.518	45.270	601
	796	2.622	34.407	0.47	6.2	158.9	3.16	44.7	0.00	2.572	27.450	36.625	45.391	802
	993	2.364	34.459	0.79	10.4	165.4	3.10	43.9	0.00	2.301	27.514	36.703	45.482	1001
	1238	2.184	34.510	0.95	12.4	171.7	3.08	43.5	0.00	2.105	27.571	36.770	45.558	1248
	1488	2.000	34.560	1.27	16.5	173.6	3.02	42.7	0.00	1.904	27.627	36.836	45.634	1501
	1732	1.854	34.595	1.70	22.1	173.5	2.92	41.4	0.00	1.740	27.667	36.885	45.691	1748
	1978	1.724	34.623	2.11	27.3	170.3	2.84	40.5	0.00	1.592	27.701	36.927	45.740	1998
	2499	1.563	34.654	2.69	34.6	165.6	2.72	38.9	0.00	1.391	27.740	36.977	45.800	2527
	2958	1.488	34.668	3.09	39.6	161.6	2.63	37.8	0.00	1.272	27.760	37.003	45.832	2995
	3447	1.446	34.678	3.35	42.9	157.5	2.55	37.0	0.00	1.173	27.775	37.023	45.858	3494
	3935	1.437	34.686	3.55	45.4	155.6	2.51	36.5	0.00	1.121	27.785	37.036	45.873	3993
	4394	1.460	34.687	3.63	46.3	155.6	2.49	36.1	0.00	1.090	27.788	37.041	45.880	4464
	4846	1.501	34.690	3.64	46.5	155.3	2.49	36.0	0.00	1.072	27.791	37.045	45.885	4928

KOROLEV Sta. 19

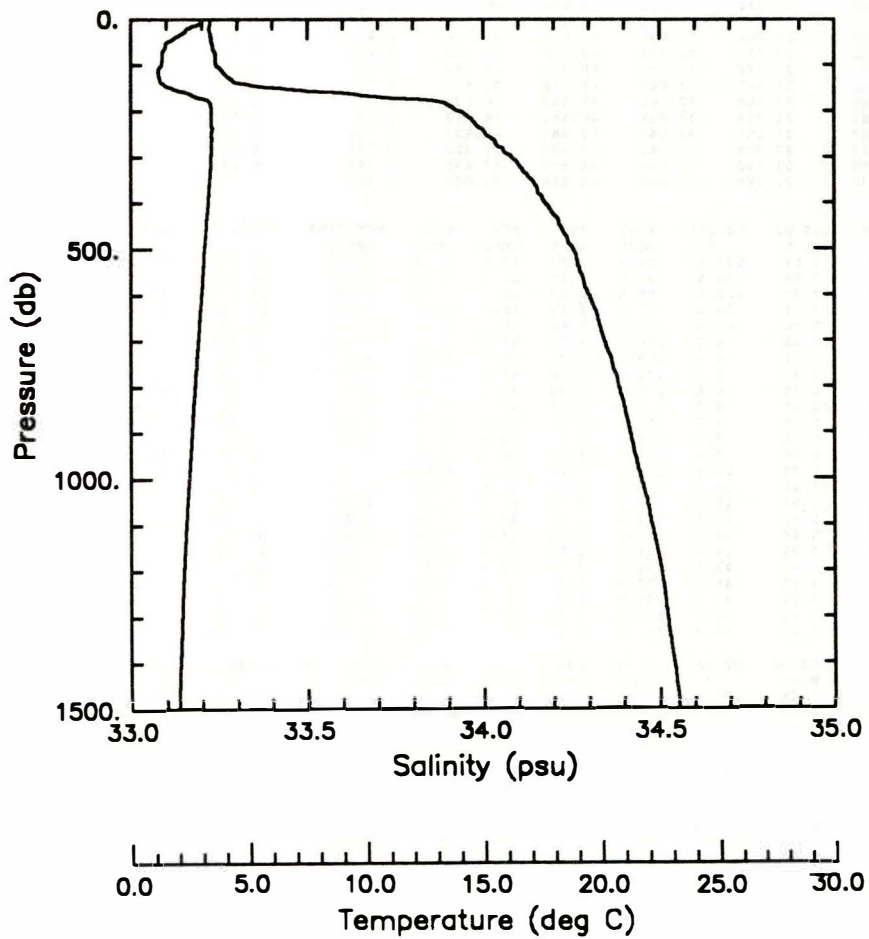
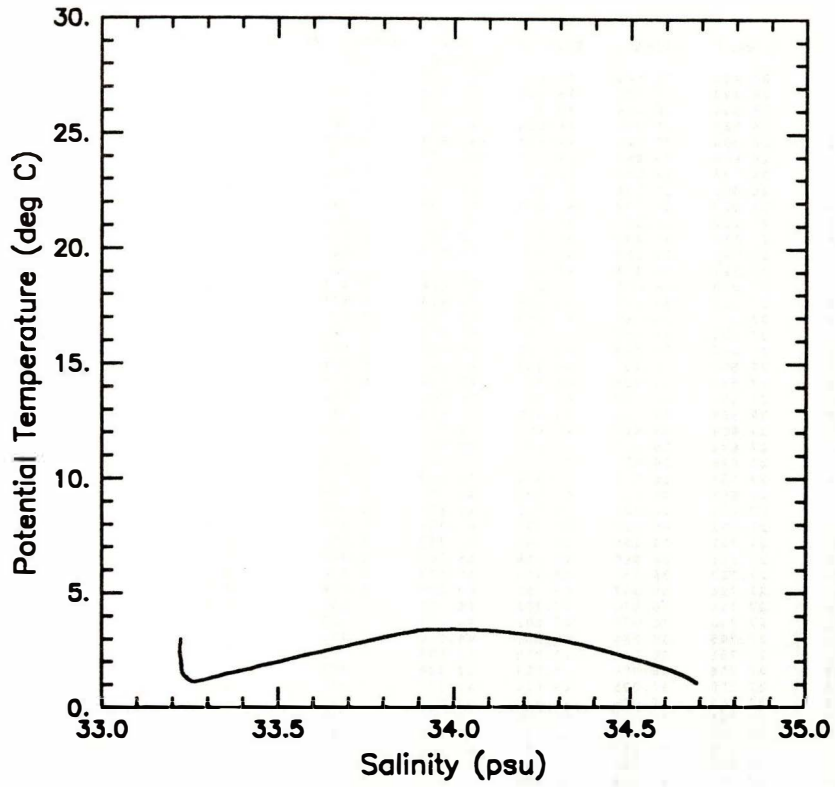


AKADEMIK KOROLEV SAGA II STATION 20
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 45 59.5N 157 53.4E 5/16/87 2242 5141

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	2.988	33.223	2.988	26.468	35.641	44.404	155.231	0.000		1460.0	0
20	2.467	33.222	2.466	26.511	35.712	44.502	151.236	0.031		1458.1	19
40	1.876	33.226	1.874	26.560	35.794	44.614	146.597	0.060	2.610	1455.9	39
60	1.461	33.231	1.458	26.593	35.850	44.692	143.433	0.089	1.920	1454.4	59
80	1.336	33.238	1.332	26.607	35.871	44.720	142.107	0.118	1.340	1454.1	79
100	1.283	33.242	1.279	26.614	35.881	44.733	141.448	0.146	1.670	1454.2	99
150	1.721	33.421	1.713	26.727	35.967	44.792	130.996	0.215	4.260	1457.2	149
200	3.418	33.931	3.405	26.994	36.133	44.865	106.815	0.273	2.460	1466.1	199
250	3.430	34.007	3.414	27.054	36.191	44.921	101.556	0.325	1.890	1467.0	248
300	3.401	34.080	3.382	27.115	36.253	44.983	96.159	0.374	1.950	1467.8	298
350	3.338	34.137	3.316	27.167	36.307	45.040	91.591	0.421	1.730	1468.4	348
400	3.274	34.176	3.249	27.205	36.348	45.083	88.387	0.466	1.640	1469.1	397
450	3.194	34.219	3.165	27.247	36.393	45.133	84.736	0.510	1.480	1469.6	447
500	3.112	34.255	3.080	27.283	36.434	45.177	81.564	0.551	1.500	1470.1	497
600	2.987	34.300	2.948	27.331	36.488	45.237	77.583	0.631	1.380	1471.3	596
700	2.846	34.345	2.802	27.380	36.544	45.299	73.465	0.706	1.230	1472.4	695
800	2.708	34.385	2.657	27.425	36.596	45.358	69.619	0.778	1.130	1473.5	794
900	2.579	34.418	2.522	27.462	36.641	45.409	66.439	0.846	1.070	1474.6	893
1000	2.459	34.448	2.395	27.497	36.682	45.456	63.502	0.911	1.180	1475.8	992
1100	2.335	34.477	2.266	27.531	36.722	45.503	60.563	0.972	1.050	1476.9	1091
1200	2.226	34.504	2.149	27.562	36.759	45.545	57.854	1.032	0.960	1478.2	1190
1300	2.154	34.522	2.072	27.583	36.784	45.574	56.237	1.089	0.790	1479.5	1289
1400	2.082	34.540	1.993	27.604	36.809	45.603	54.521	1.144	0.930	1480.9	1388
1500	2.011	34.556	1.915	27.623	36.832	45.629	52.989	1.198	0.740	1482.3	1487
1600	1.960	34.569	1.856	27.637	36.849	45.650	51.901	1.250	0.650	1483.8	1586
1700	1.900	34.582	1.789	27.653	36.869	45.673	50.609	1.301	0.730	1485.2	1684
1800	1.843	34.595	1.725	27.668	36.887	45.694	49.407	1.351	0.780	1486.6	1783
1900	1.793	34.606	1.667	27.682	36.904	45.713	48.366	1.400	0.770	1488.1	1882
2000	1.752	34.615	1.619	27.692	36.917	45.729	47.603	1.448	0.680	1489.6	1980
2100	1.710	34.623	1.570	27.703	36.930	45.744	46.849	1.495	0.640	1491.1	2079
2200	1.673	34.630	1.524	27.712	36.941	45.758	46.190	1.542	0.630	1492.7	2177
2300	1.628	34.639	1.472	27.722	36.955	45.774	45.366	1.588	0.640	1494.2	2276
2400	1.597	34.645	1.433	27.730	36.964	45.785	44.865	1.633	0.530	1495.7	2374
2500	1.568	34.650	1.396	27.737	36.973	45.796	44.402	1.677	0.530	1497.3	2473
2600	1.548	34.654	1.367	27.742	36.980	45.804	44.178	1.722	0.470	1498.9	2571
2700	1.529	34.657	1.340	27.747	36.986	45.812	43.970	1.766	0.450	1500.5	2669
2800	1.514	34.661	1.315	27.751	36.992	45.819	43.917	1.810	0.430	1502.2	2757
2900	1.497	34.664	1.290	27.755	36.997	45.826	43.661	1.853	0.360	1503.8	2866
3000	1.487	34.666	1.270	27.759	37.002	45.831	43.613	1.897	0.410	1505.5	2964
3100	1.475	34.669	1.250	27.762	37.006	45.837	43.558	1.941	0.310	1507.1	3062
3200	1.467	34.671	1.231	27.765	37.010	45.842	43.553	1.984	0.400	1508.8	3160
3300	1.457	34.673	1.212	27.768	37.014	45.847	43.549	2.028	0.340	1510.5	3258
3400	1.455	34.674	1.200	27.770	37.017	45.850	43.678	2.071	0.350	1512.2	3356
3500	1.449	34.676	1.184	27.772	37.020	45.854	43.752	2.115	0.300	1513.9	3454
3600	1.444	34.678	1.169	27.775	37.023	45.858	43.794	2.159	0.330	1515.6	3552
3700	1.440	34.679	1.155	27.777	37.026	45.862	43.900	2.203	0.300	1517.3	3650
3800	1.443	34.680	1.148	27.778	37.028	45.864	44.147	2.247	0.280	1519.0	3747
3900	1.440	34.681	1.133	27.780	37.031	45.867	44.240	2.291	0.300	1520.7	3845
4000	1.443	34.682	1.126	27.781	37.032	45.869	44.488	2.335	0.240	1522.5	3943
4100	1.445	34.683	1.117	27.783	37.034	45.872	44.706	2.380	0.250	1524.2	4041
4200	1.449	34.684	1.109	27.784	37.036	45.874	44.955	2.425	0.260	1526.0	4138
4300	1.454	34.684	1.103	27.785	37.037	45.875	45.224	2.470	0.220	1527.7	4236
4400	1.459	34.685	1.097	27.786	37.038	45.877	45.536	2.515	0.230	1529.5	4333
4500	1.466	34.686	1.092	27.787	37.039	45.878	45.847	2.561	0.220	1531.3	4431
4600	1.475	34.686	1.089	27.787	37.040	45.879	46.226	2.607	0.170	1533.0	4528
4700	1.485	34.686	1.087	27.787	37.041	45.879	46.618	2.653	0.130	1534.8	4626
4800	1.495	34.686	1.085	27.788	37.041	45.880	47.031	2.700	0.100	1536.6	4723
4900	1.505	34.687	1.083	27.788	37.041	45.881	47.429	2.747	0.190	1538.4	4820
5000	1.512	34.687	1.077	27.789	37.043	45.882	47.743	2.795		1540.2	4918
5100	1.524	34.688	1.077	27.789	37.043	45.882	48.193	2.843	0.120	1542.0	5015
5200	1.535	34.688	1.075	27.789	37.043	45.883	48.627	2.891	0.110	1543.8	5112
5234	1.539	34.688	1.075	27.790	37.044	45.883	48.759	2.908		1544.4	5145

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
2	3.047	33.229	7.91	105.1	57.6	2.19	27.9	0.26	3.047	26.467	35.637	44.397	2
21	2.407	33.229	7.96	104.1	57.7	2.19	27.9	0.25	2.406	26.521	35.725	44.518	21
51	1.505	33.234	7.81	99.8	57.3	2.24	28.2	0.24	1.503	26.593	35.847	44.687	51
100	1.309	33.244	7.70	97.9	57.6	2.28	28.8	0.30	1.305	26.614	35.879	44.729	100
150	1.456	33.350	6.47	82.6	64.8	2.46	32.0	0.25	1.450	26.689	35.944	44.785	150
200	3.393	33.890	0.77	10.4	104.7	3.28	46.3	0.00	3.383	26.964	36.104	44.838	201
248	3.425	33.997	0.42	5.7	113.8	3.32	46.9	0.00	3.412	27.046	36.184	44.914	249
297	3.399	34.083	0.43	5.8	121.4	3.30	46.8	0.00	3.383	27.118	36.255	44.986	298
398	3.282	34.180	0.33	4.4	132.1	3.27	46.1	0.00	3.263	27.206	36.349	45.084	400
497	3.091	34.261	0.33	4.4	142.2	3.25	45.6	0.00	3.066	27.289	36.441	45.184	500
596	2.963	34.308	0.34	4.5	147.4	3.25	45.4	0.00	2.931	27.339	36.497	45.246	600
791	2.694	34.390	0.42	5.6	158.1	3.24	45.3	0.00	2.657	27.429	36.600	45.362	797
989	2.440	34.455	0.58	7.6	166.1	3.20	44.8	0.00	2.390	27.503	36.688	45.463	997
1234	2.168	34.516	0.96	12.6	172.2	3.14	43.6	0.00	2.107	27.575	36.775	45.563	1244
1484	1.990	34.561	1.31	17.1	173.9	3.07	42.6	0.00	1.912	27.627	36.836	45.633	1497
1729	1.849	34.594	1.64	21.3	175.4	3.00	41.9	0.00	1.754	27.665	36.883	45.688	1745
1976	1.748	34.617	1.99	25.8	173.8	2.92	40.9	0.00	1.636	27.693	36.916	45.727	1996
2467	1.586	34.649	2.63	33.9	167.1	2.77	39.1	0.00	1.456	27.732	36.965	45.785	2495
2967	1.491	34.668	3.08	39.6	160.9	2.68	38.0	0.00	1.318	27.757	36.997	45.824	3004
3447	1.442	34.677	3.37	43.2	158.6	2.61	37.1	0.00	1.235	27.770	37.015	45.846	3494
3934	1.466	34.683	3.53	45.2	156.4	2.57	36.6	0.00	1.178	27.779	37.027	45.861	3992
4420	1.466	34.686	3.62	46.3	156.2	2.56	36.5	0.00	1.149	27.783	37.033	45.868	4490
4898	1.512	34.688	3.65	46.7	156.1	2.55	36.3	0.00	1.141	27.785	37.035	45.871	4982
5131	1.539	34.689	3.66	46.8	155.6	2.55	36.3	0.00	1.112	27.788	37.040	45.877	5221

KOROLEV Sta. 20



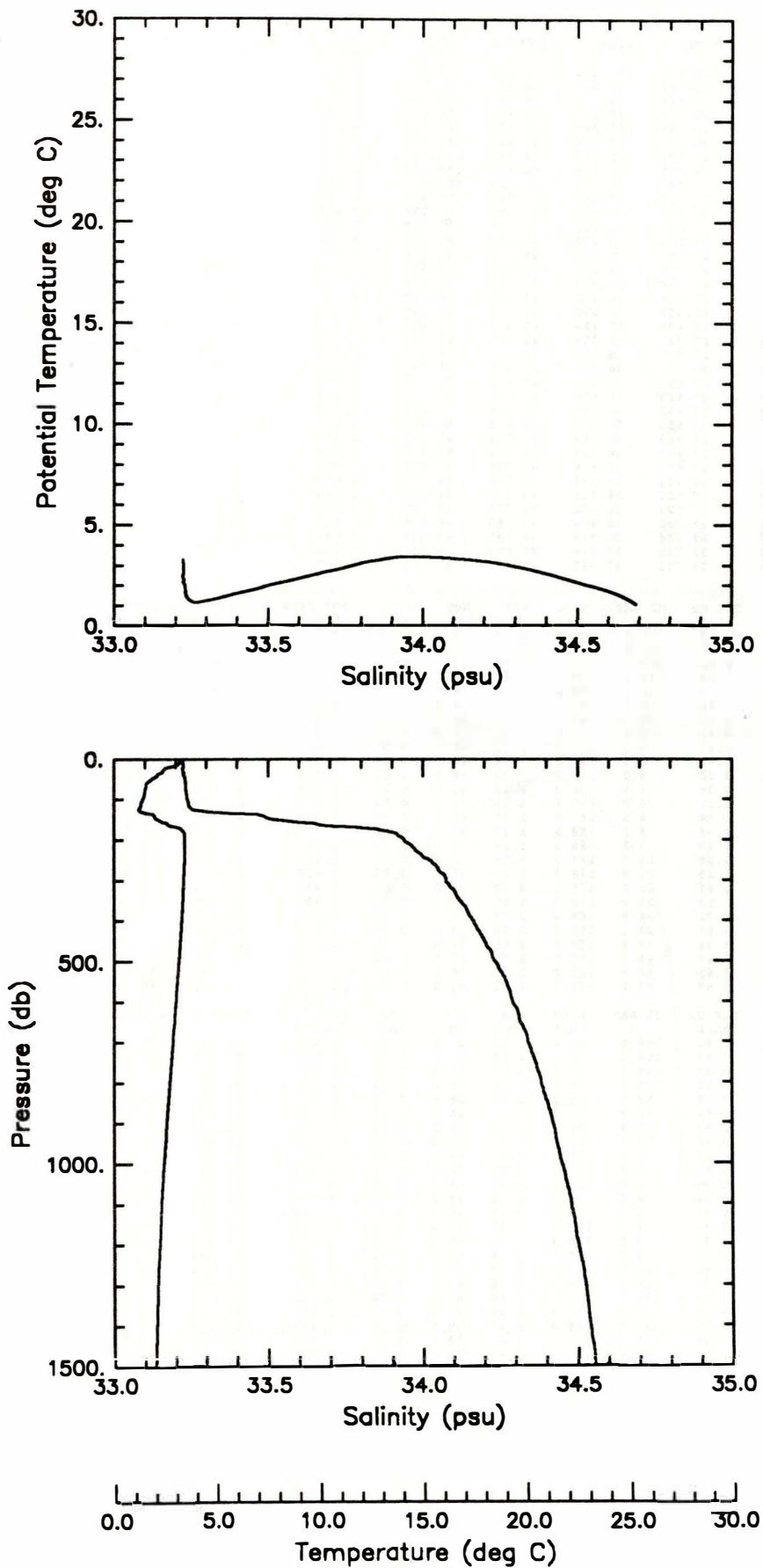
AKADEMIK KOROLEV SAGA II STATION 21
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 45 45.0N 158 8.0E 5/17/87 412 5012

CTD DATA			POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
PRESS	TEMP	SALINITY									
0	3.273	33.224	3.273	26.443	35.600	44.349	157.609	0.000		1461.3	0
20	3.209	33.225	2.705	26.493	35.681	44.459	152.923	0.031		1459.2	19
40	2.106	33.228	2.107	26.544	35.764	44.572	148.198	0.061	2.680	1456.9	39
60	1.628	33.233	1.625	26.583	35.830	44.664	144.435	0.090	2.000	1455.1	59
80	1.496	33.235	1.492	26.594	35.849	44.689	143.409	0.119	1.360	1454.8	79
100	1.390	33.239	1.385	26.604	35.865	44.711	142.431	0.148	1.730	1454.7	99
150	2.152	33.537	2.144	26.788	36.002	44.803	125.418	0.216	4.120	1459.3	149
200	3.449	33.938	3.436	26.997	36.134	44.864	106.595	0.273	2.190	1466.2	199
250	3.449	34.020	3.424	27.063	36.200	44.929	100.696	0.325	2.090	1467.1	248
300	3.399	34.076	3.379	27.112	36.250	44.981	96.436	0.374	1.570	1467.8	298
350	3.348	34.124	3.325	27.153	36.293	45.025	92.969	0.421	1.620	1468.5	348
400	3.296	34.164	3.270	27.193	36.335	45.070	89.542	0.467	1.520	1469.1	397
450	3.234	34.201	3.205	27.229	36.374	45.111	86.444	0.511	1.500	1469.7	447
500	3.167	34.235	3.134	27.262	36.410	45.151	83.626	0.553	1.500	1470.3	497
600	3.013	34.292	2.974	27.322	36.478	45.226	78.434	0.634	1.350	1471.4	596
700	2.857	34.342	2.812	27.377	36.540	45.295	73.782	0.710	1.200	1472.4	695
800	2.704	34.384	2.653	27.424	36.596	45.358	69.675	0.781	1.140	1473.5	794
900	2.561	34.420	2.504	27.466	36.645	45.414	66.061	0.849	1.100	1474.5	893
1000	2.432	34.450	2.369	27.501	36.687	45.463	63.073	0.914	1.190	1475.7	992
1100	2.308	34.479	2.238	27.535	36.728	45.510	60.109	0.975	0.950	1476.8	1091
1200	2.220	34.501	2.144	27.561	36.758	45.544	58.009	1.034	1.050	1478.1	1190
1300	2.121	34.525	2.039	27.588	36.791	45.582	55.663	1.091	0.860	1479.4	1289
1400	2.067	34.539	1.978	27.604	36.810	45.605	54.425	1.146	0.840	1480.8	1388
1500	2.007	34.557	1.910	27.624	36.833	45.631	52.887	1.200	0.860	1482.3	1487
1600	1.958	34.570	1.855	27.638	36.850	45.651	51.807	1.252	0.790	1483.8	1586
1700	1.907	34.583	1.796	27.653	36.869	45.672	50.652	1.303	0.790	1485.2	1684
1800	1.850	34.595	1.732	27.668	36.887	45.693	49.457	1.353	0.800	1486.7	1783
1900	1.798	34.606	1.673	27.681	36.903	45.712	48.430	1.402	0.700	1488.1	1882
2000	1.759	34.615	1.627	27.692	36.916	45.727	47.701	1.450	0.600	1489.7	1980
2100	1.724	34.623	1.584	27.701	36.928	45.741	47.033	1.498	0.710	1491.2	2079
2200	1.683	34.631	1.535	27.711	36.940	45.756	46.303	1.544	0.510	1492.7	2177
2300	1.644	34.638	1.488	27.720	36.952	45.770	45.623	1.590	0.500	1494.2	2276
2400	1.611	34.644	1.447	27.728	36.962	45.782	45.106	1.636	0.550	1495.8	2374
2500	1.586	34.648	1.414	27.734	36.970	45.792	44.753	1.680	0.490	1497.4	2473
2600	1.562	34.653	1.381	27.740	36.977	45.801	44.435	1.725	0.530	1499.0	2571
2700	1.540	34.657	1.350	27.745	36.984	45.810	44.151	1.769	0.470	1500.6	2669
2800	1.519	34.651	1.321	27.751	36.991	45.819	43.883	1.813	0.420	1502.2	2767
2900	1.506	34.663	1.298	27.754	36.996	45.824	43.805	1.857	0.450	1503.8	2866
3000	1.491	34.666	1.275	27.758	37.001	45.831	43.673	1.901	0.380	1505.5	2964
3100	1.480	34.668	1.254	27.762	37.006	45.836	43.630	1.945	0.380	1507.2	3062
3200	1.470	34.671	1.234	27.765	37.010	45.841	43.606	1.988	0.370	1508.8	3160
3300	1.461	34.673	1.216	27.768	37.014	45.846	43.592	2.032	0.380	1510.5	3258
3400	1.457	34.674	1.202	27.770	37.017	45.850	43.706	2.075	0.310	1512.2	3356
3500	1.452	34.676	1.187	27.772	37.020	45.854	43.787	2.119	0.370	1513.9	3454
3600	1.444	34.678	1.169	27.775	37.024	45.858	43.775	2.163	0.360	1515.6	3552
3700	1.442	34.679	1.157	27.777	37.026	45.862	43.910	2.207	0.280	1517.3	3650
3800	1.440	34.680	1.144	27.779	37.029	45.865	44.032	2.251	0.280	1519.0	3747
3900	1.440	34.681	1.134	27.780	37.031	45.867	44.231	2.295	0.320	1520.7	3845
4000	1.442	34.682	1.125	27.782	37.033	45.870	44.434	2.339	0.270	1522.5	3943
4100	1.444	34.683	1.116	27.783	37.035	45.872	44.665	2.384	0.240	1524.2	4041
4200	1.447	34.684	1.108	27.784	37.036	45.874	44.916	2.429	0.200	1526.0	4138
4300	1.453	34.685	1.102	27.785	37.038	45.876	45.196	2.474	0.240	1527.7	4236
4400	1.459	34.685	1.097	27.786	37.039	45.877	45.490	2.519	0.200	1529.5	4333
4500	1.466	34.686	1.092	27.787	37.040	45.878	45.831	2.565	0.220	1531.3	4431
4600	1.473	34.686	1.088	27.788	37.041	45.880	46.159	2.611	0.170	1533.0	4528
4700	1.483	34.687	1.085	27.788	37.041	45.880	46.542	2.657	0.150	1534.8	4626
4800	1.492	34.687	1.082	27.788	37.042	45.881	46.927	2.704	0.170	1536.6	4723
4900	1.501	34.687	1.079	27.789	37.042	45.882	47.322	2.751	0.200	1538.4	4820
5000	1.508	34.688	1.074	27.790	37.044	45.883	47.625	2.798	0.160	1540.2	4918
5100	1.520	34.689	1.073	27.790	37.044	45.884	48.055	2.846		1542.0	5015

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
3	3.379	33.228	7.88	105.6	56.9	2.19	27.6	0.28	3.379	26.437	35.588	44.332	3	
20	2.821	33.227	7.94	104.9	57.5	2.20	27.7	0.26	2.820	26.486	35.667	44.439	20	
49	1.937	33.230	7.90	102.1	56.5	2.23	28.0	0.24	1.934	26.559	35.788	44.606	49	
99	1.371	33.247	7.71	98.2	57.0	2.29	28.7	0.29	1.366	26.612	35.874	44.721	99	
148	1.926	33.472	5.06	65.5	72.9	2.65	35.3	0.15	1.918	26.754	35.980	44.795	148	
199	3.454	33.929	0.48	6.5	106.8	3.31	46.9	0.00	3.441	26.989	36.126	44.856	200	
249	3.428	34.027	0.36	4.9	115.2	3.31	46.5	0.01	3.412	27.070	36.207	44.937	250	
298	3.370	34.101	0.41	5.5	122.6	3.28	46.0	0.00	3.351	27.135	36.274	45.006	299	
398	3.235	34.199	0.34	4.6	133.0	3.24	45.4	0.00	3.209	27.227	36.371	45.109	400	
497	3.105	34.254	0.35	4.7	139.9	3.23	45.2	0.00	3.073	27.283	36.434	45.177	500	
594	2.956	34.309	0.35	4.7	147.0	3.23	45.0	0.00	2.918	27.341	36.500	45.250	598	
791	2.711	34.382	0.41	5.4	156.9	3.21	44.9	0.00	2.660	27.422	36.593	45.355	797	
991	2.438	34.450	0.56	7.4	167.3	3.18	44.5	0.00	2.375	27.501	36.686	45.462	999	
1237	2.175	34.513	0.98	12.8	171.0	3.11	43.3	0.00	2.096	27.574	36.774	45.562	1247	
1485	2.021	34.552	1.26	16.4	173.5	3.05	42.6	0.00	1.925	27.619	36.827	45.624	1498	
1687	1.908	34.581	1.56	20.3	173.7	2.99	41.7	0.00	1.794	27.652	36.867	45.671	1703	
1976	1.770	34.612	1.97	25.5	172.4	2.90	40.7	0.00	1.637	27.689	36.912	45.723	1996	
2467	1.591	34.645	2.64	34.0	165.6	2.75	38.9	0.00	1.419	27.731	36.966	45.788	2495	
2964	1.492	34.665	3.07	39.4	160.0	2.66	37.3	0.00	1.275	27.757	37.000	45.830	3001	
3448	1.447	34.675	3.37	43.1	156.9	2.59	36.9	0.00	1.183	27.772	37.020	45.854	3495	
3934	1.440	34.681	3.53	45.1	155.6	2.55	36.4	0.00	1.124	27.781	37.032	45.869	3992	
4419	1.465	34.684	3.64	46.5	155.8	2.53	36.1	0.00	1.092	27.785	37.038	45.877	4489	
4902	1.508	34.686	3.66	46.7	156.6	2.50	36.2	0.00	1.076	27.788	37.042	45.881	4986	
5003	1.520	34.688	3.68	46.9	157.4	2.51	36.1	0.00	1.058	27.791	37.046	45.886	5090	

CAST 2	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
3	3.379	33.228	7.88	105.6	56.9	2.19	27.5	0.28	3.379	26.437	35.588	44.332	3	
26	2.177	33.229	7.96	103.5	56.9	2.20	27.7	0.25	2.176	26.540	35.756	44.561	26	
52	1.611	33.228	7.90	101.2	56.7	2.23	28.1	0.24						

KOROLEV Sta. 21



AKADEMIK KOROLEV SAGA II
LATITUDE LONGITUDE

STATION 22
MO/DY/YR 5/17/87

START TIME
GMT 1054

BOTTOM
M 4762

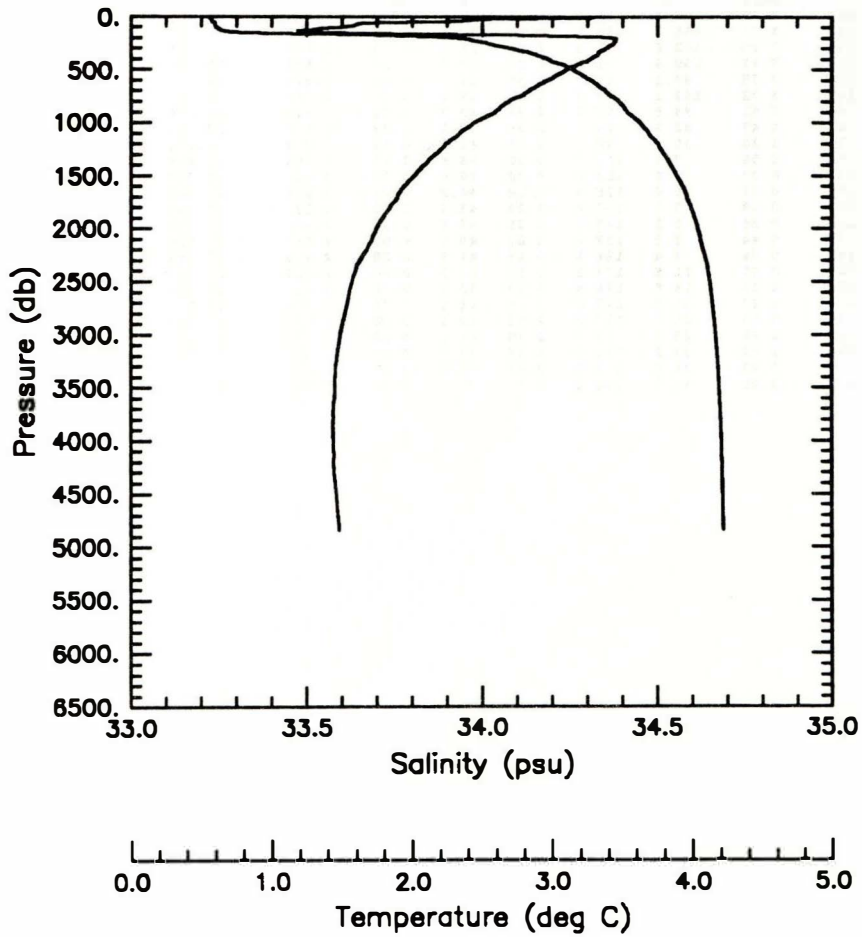
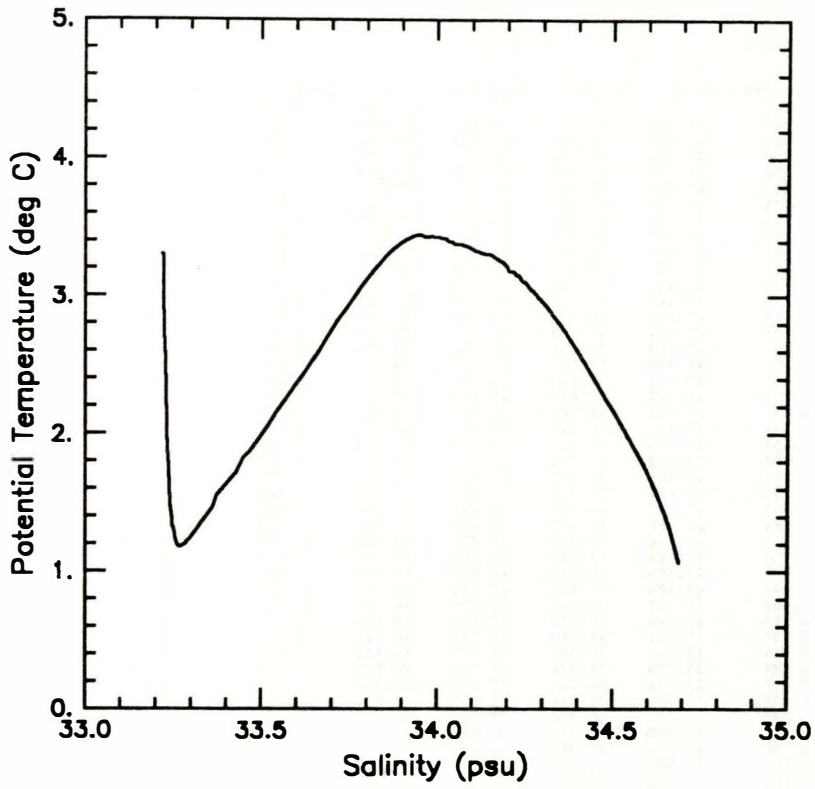
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CTD DATA	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
PRESS	TEMP				CL/TON	DYN M	FREQ CPH	M/S	M	
DB	DEG C									
0	3.302	33.218	3.302	26.436	35.591	44.339	158.313	0.000	1461.4	0
10	3.302	33.218	3.302	26.491	35.677	44.453	153.147	0.031	1459.3	19
20	2.739	33.225	2.738	26.526	35.732	44.527	149.941	0.061	1458.0	39
40	2.362	33.230	2.360	26.578	35.819	44.647	144.897	0.091	1455.6	59
60	1.739	33.237	1.736	26.591	35.840	44.675	143.728	0.120	1455.3	79
80	1.593	33.239	1.590	26.600	35.854	44.695	142.909	0.149	1455.2	99
100	1.491	33.241	1.486	26.674	35.936	44.784	135.866	0.219	1455.4	149
150	1.342	33.322	1.335	26.979	36.118	44.850	108.232	0.279	1466.0	199
200	3.419	33.912	3.407	27.057	36.193	44.923	101.325	0.331	1467.1	248
250	3.436	34.011	3.420	27.119	36.257	44.989	95.835	0.380	1467.7	298
300	3.381	34.082	3.361	27.176	36.316	45.050	90.794	0.427	1468.4	348
350	3.325	34.146	3.303	27.213	36.357	45.092	87.569	0.471	1469.0	397
400	3.268	34.186	3.243	27.254	36.402	45.142	83.975	0.514	1469.5	447
450	3.181	34.227	3.152	27.287	36.438	45.182	81.176	0.556	1470.1	497
500	3.101	34.259	3.069	27.340	36.498	45.247	76.752	0.635	1471.2	596
600	2.965	34.308	2.926	27.384	36.549	45.305	73.038	0.709	1472.3	695
700	2.835	34.349	2.791	27.428	36.601	45.363	69.249	0.781	1473.4	794
800	2.693	34.388	2.642	27.458	36.635	45.402	66.935	0.849	1474.7	893
900	2.596	34.413	2.538	27.499	36.684	45.459	63.282	0.914	1475.7	992
1000	2.447	34.449	2.374	27.529	36.719	45.500	60.797	0.976	1477.0	1091
1100	2.343	34.475	2.284	27.558	36.755	45.540	58.271	1.035	1478.2	1190
1200	2.243	34.501	2.167	27.580	36.780	45.570	56.541	1.093	1479.6	1289
1300	2.167	34.519	2.085	27.602	36.807	45.601	54.694	1.148	1480.9	1388
1400	2.087	34.539	1.997	27.622	36.830	45.628	53.122	1.202	1482.3	1487
1500	2.017	34.555	1.920	27.641	36.854	45.655	51.476	1.255	1483.7	1586
1600	1.946	34.572	1.843	27.655	36.871	45.674	50.462	1.305	1485.2	1684
1700	1.898	34.584	1.787	27.669	36.888	45.694	49.365	1.355	1486.6	1783
1800	1.844	34.596	1.727	27.682	36.904	45.714	48.330	1.404	1488.1	1882
1900	1.792	34.607	1.667	27.693	36.918	45.730	47.504	1.452	1489.6	1980
2000	1.747	34.615	1.614	27.702	36.928	45.742	46.977	1.499	1491.2	2079
2100	1.717	34.622	1.576	27.711	36.940	45.756	46.310	1.546	1492.7	2177
2200	1.678	34.630	1.530	27.722	36.954	45.773	45.392	1.592	1494.2	2276
2300	1.630	34.639	1.474	27.730	36.964	45.785	44.898	1.637	1495.7	2374
2400	1.600	34.645	1.436	27.736	36.972	45.795	44.537	1.681	1497.3	2473
2500	1.575	34.649	1.402	27.741	36.979	45.803	44.252	1.726	1498.9	2571
2600	1.553	34.654	1.372	27.791	37.045	45.885	46.754	2.746	1537.3	4764
4842	1.483	34.689	1.068							

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	3.435	33.225	7.90	106.0	57.4	2.18	27.6	0.28	3.435	26.429	35.578	44.319	2	
12	3.090	33.225	7.97	106.0	57.1	2.18	27.5	0.27	3.088	26.461	35.627	44.386	12	
23	2.676	33.226	8.03	105.7	57.0	2.17	27.3	0.26	2.673	26.497	35.686	44.466	23	
43	1.623	33.237	7.92	101.5	57.5	2.24	28.0	0.24	1.618	26.587	35.834	44.668	43	
83	1.469	33.241	7.78	99.3	58.2	2.27	28.6	0.28	1.463	26.601	35.857	44.699	83	
124	1.207	33.257	7.64	96.9	58.7	2.31	28.9	0.33	1.200	26.631	35.902	44.758	124	
162	2.693	33.668	2.92	38.6	89.9	2.95	40.9	0.01	2.683	26.849	36.031	44.803	162	
202	3.442	33.939	0.49	6.6	111.0	3.30	47.0	0.00	3.429	26.999	36.136	44.866	202	
252	3.432	34.018	0.37	5.0	117.6	3.31	46.9	0.00	3.409	27.063	36.201	44.931	252	
281	3.435	34.053	0.43	5.8	120.3	3.28	46.7	0.00	3.397	27.092	36.230	44.960	282	
302	3.414	34.074	0.30	4.0	122.2	3.30	46.5	0.00	3.355	27.113	36.252	44.984	303	
400	3.285	34.169	0.34	4.6	131.8	3.25	45.8	0.00	3.199	27.204	36.349	45.088	402	
499	3.138	34.247	0.31	4.2	140.4	3.23	45.7	0.00	3.070	27.278	36.429	45.173	502	
598	2.986	34.301	0.34	4.5	147.8	3.23	45.6	0.00	2.899	27.336	36.496	45.247	602	
794	2.724	34.379	0.38	5.0	158.2	3.23	45.3	0.00	2.620	27.423	36.597	45.361	800	
991	2.434	34.451	0.57	7.5	168.5	3.18	44.8	0.00	2.317	27.506	36.695	45.473	998	
1237	2.186	34.514	0.88	11.5	173.7	3.13	44.1	0.00	2.047	27.579	36.781	45.572	1247	
1482	2.002	34.560	1.25	16.2	176.2	3.06	43.1	0.00	1.822	27.633	36.847	45.649	1495	
1727	1.866	34.593	1.62	21.0	175.1	2.98	42.0	0.00	1.641	27.673	36.897	45.708	1743	
1973	1.752	34.618	2.03	26.2	173.9	2.90	40.7	0.00	1.480	27.705	36.937	45.756	1993	
2434	1.605	34.643	2.71	34.8	168.4	2.79	39.4	0.00	1.284	27.739	36.982	45.811	2461	
2956	1.505	34.663	3.06	39.1	161.7	2.66	38.1	0.00	1.131	27.766	37.017	45.854	2993	
3431	1.461	34.675	3.33	42.4	158.0	2.61	37.3	0.00	1.030	27.782	37.039	45.881	3478	
3937	1.454	34.681	3.49	44.5	155.6	2.58	37.1	0.00	1.010	27.788	37.046	45.889	3995	
4419	1.462	34.687	3.63	46.3	156.8	2.54	36.1	0.00	1.064	27.790	37.044	45.884	4489	
4752	1.483	34.687	3.69	47.6	156.4	2.52	36.0	0.00	1.483	27.760	36.991	45.809	4831	

CAST 2	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	3.435	33.225	7.90	106.0	57.4	2.18	27.6	0.28	3.435	26.429	35.578	44.319	2	
12	3.090	33.225	7.97	106.0	57.1	2.18	27.5	0.27	3.089	26.460	35.627	44.386	12	
23	2.676	33.226	8.03	105.7	57.0	2.17	27.3	0.26	2.675	26.497	35.686	44.465	23	
43	1.623	33.237	7.92	101.5	57.5	2.24	28.0	0.24	1.621	26.587	35.834	44.668	43	
83	1.469	33.241	7.78	99.3	58.2	2.27	28.6	0.28	1.465	26.601	35.857	44.699	83	
124	1.207	33.257	7.64	96.9	58.7	2.31	28.9	0.33	1.202	26.631	35.902	44.758	124	
162	2.693	33.668	2.92	38.6	89.9	2.95	40.9	0.01	2.684	26.849	36.031	44.803	162	
202	3.442	33.939	0.49	6.6	111.0	3.30	47.0	0.00	3.429	26.999	36.136	44.866	202	
252	3.432	34.018	0.37	5.0	117.6	3.31	46.9	0.00	3.416	27.063	36.200	44.929	252	
281	3.435	34.053	0.43	5.8	120.3	3.28	46.7	0.00	3.417	27.091	36.227	44.956	282	
302	3.414	34.074	0.30	4.0	122.2	3.30	46.5	0.00	3.394	27.109	36.246	44.976	302	
400	3.285	34.169	0.34	4.6	131.8	3.25	45.8	0.00	3.259	27.198	36.341	45.076	402	
499	3.138	34.247	0.31	4.2	140.4	3.23	45.7	0.00	3.106	27.274	36.424	45.166	502	
598	2.986	34.301	0.34	4.5	147.8	3.23	45.6	0.00	2.947	27.332	36.489	45.238	602	
794	2.724	34.379	0.38	5.0	158.2	3.23	45.3	0.00	2.673	27.419	36.589	45.350	800	
991	2.434	34.451	0.57	7.5	168.5	3.18	44.8	0.00	2.371	27.502	36.688	45.463	999	
1237	2.186	34.514	0.88	11.5	173.7	3.13	44.1	0.00	2.107	27.574	36.773	45.561	1247	
1482	2.002	34.560	1.25	16.3	176.2	3.06	43.1	0.00	1.906	27.627	36.836	45.634	1495	
1727	1.866	34.593	1.62	21.0	175.1	2.98	42.0	0.00	1.752	27.665	36.882	45.688	1743	
1973	1.752	34.618	2.03	26.3	173.9	2.90	40.7	0.00	1.620	27.695	36.919	45.731	1993	
2434	1.605	34.643	2.71	34.9	168.4	2.79	39.4	0.00	1.435	27.728	36.963	45.784	2461	
2956	1.505	34.663	3.06	39.3	161.7	2.66	38.1	0.00	1.289	27.755	36.997	45.826	2993	
3431	1.461	34.675	3.33	42.6	158.0	2.61	37.3	0.00	1.198	27.771	37.018	45.851	3478	
3937	1.454	34.681	3.49	44.6</										

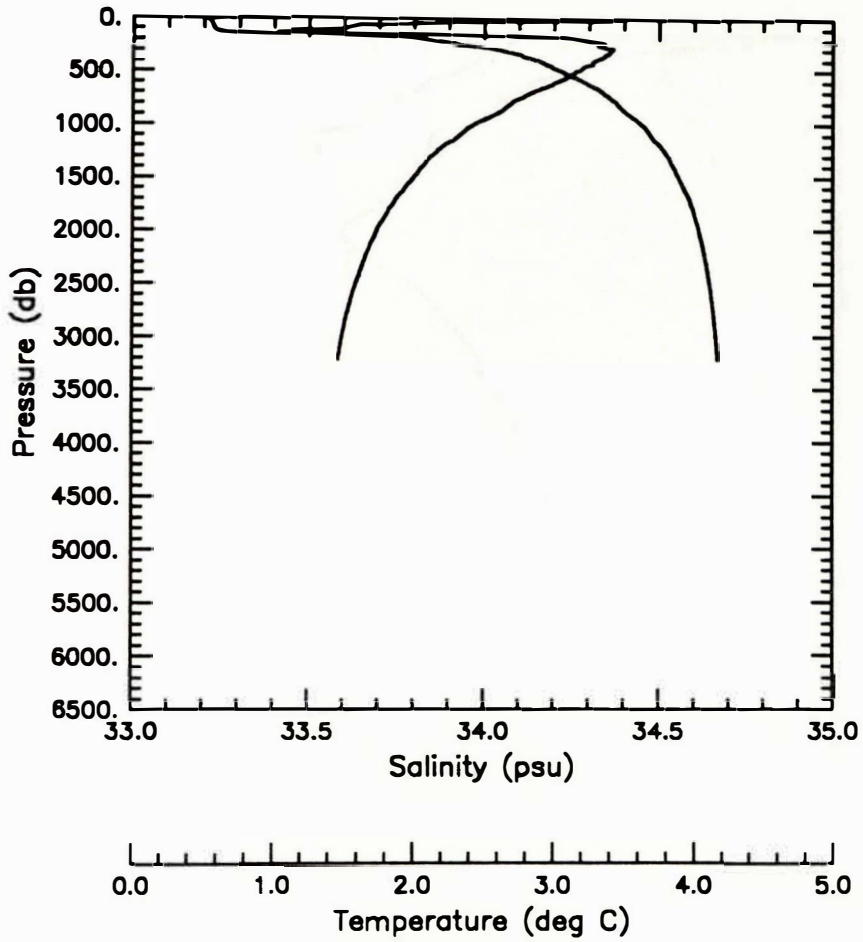
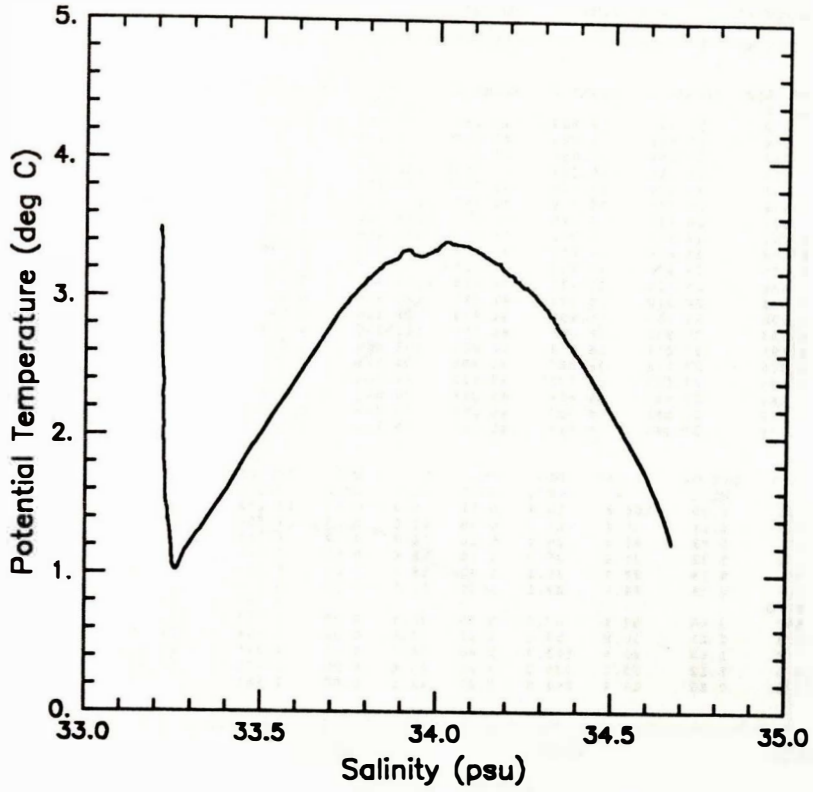
KOROLEV Sta. 22



AKADEMIK KOROLEV SAGA II STATION 23
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT
 45 13.4N 158 37.6E 5/18/87 1254 5103

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	3.496	33.211	3.496	26.412	35.558	44.296	160.544	0.000		1462.2	0
20	3.059	33.215	3.057	26.455	35.624	44.384	156.583	0.032		1460.7	19
40	2.156	33.220	2.154	26.534	35.752	44.558	149.090	0.062		1457.1	39
60	1.755	33.224	1.752	26.567	35.807	44.634	145.979	0.092	2.860	1455.7	59
80	1.550	33.226	1.546	26.583	35.835	44.673	144.427	0.121	1.390	1455.1	79
100	1.492	33.230	1.488	26.590	35.845	44.686	143.787	0.150	1.750	1455.2	99
150	2.031	33.501	2.023	26.769	35.989	44.798	127.199	0.219	4.340	1459.7	149
200	3.236	33.838	3.223	26.937	36.087	44.829	112.113	0.277	2.050	1465.2	199
250	3.323	33.937	3.307	27.009	36.153	44.889	105.788	0.332	2.140	1466.5	248
300	3.410	34.045	3.390	27.086	36.224	44.955	98.902	0.383	1.980	1467.8	298
350	3.367	34.108	3.344	27.141	36.281	45.013	94.053	0.431	1.620	1468.5	347
400	3.294	34.157	3.268	27.187	36.330	45.065	90.025	0.477	1.630	1469.1	397
450	3.228	34.190	3.199	27.220	36.366	45.104	87.223	0.521	1.430	1469.7	447
500	3.161	34.224	3.128	27.254	36.402	45.143	84.398	0.564	1.450	1470.3	497
600	3.022	34.288	2.983	27.319	36.474	45.221	78.814	0.646	1.410	1471.4	596
700	2.846	34.340	2.802	27.376	36.541	45.296	73.777	0.722	1.200	1472.4	695
800	2.702	34.380	2.651	27.422	36.593	45.356	69.911	0.794	1.030	1473.4	794
900	2.592	34.412	2.534	27.457	36.634	45.402	66.977	0.863	1.240	1474.7	893
1000	2.432	34.452	2.369	27.503	36.689	45.464	62.901	0.928	1.160	1475.7	992
1100	2.332	34.477	2.263	27.531	36.723	45.503	60.517	0.989	0.950	1476.9	1091
1200	2.215	34.504	2.139	27.564	36.761	45.548	57.715	1.049	1.020	1478.1	1190
1300	2.128	34.527	2.045	27.589	36.791	45.583	55.565	1.105	0.960	1479.4	1289
1400	2.063	34.543	1.973	27.608	36.814	45.608	54.092	1.160	0.860	1480.8	1388
1500	2.001	34.559	1.905	27.626	36.835	45.633	52.680	1.213	0.780	1482.3	1487
1600	1.940	34.574	1.837	27.643	36.856	45.657	51.295	1.265	0.750	1483.7	1586
1700	1.875	34.589	1.764	27.661	36.878	45.682	49.831	1.316	0.710	1485.1	1684
1800	1.824	34.600	1.707	27.674	36.893	45.701	48.848	1.365	0.670	1486.6	1783
1900	1.783	34.608	1.658	27.684	36.906	45.716	48.114	1.414	0.680	1488.1	1882
2000	1.740	34.617	1.608	27.695	36.920	45.732	47.339	1.461	0.570	1489.6	1980
2100	1.706	34.624	1.566	27.704	36.931	45.746	46.701	1.508	0.550	1491.1	2079
2200	1.672	34.631	1.524	27.712	36.942	45.758	46.151	1.555	0.610	1492.7	2177
2300	1.641	34.637	1.485	27.720	36.952	45.770	45.634	1.601	0.560	1494.2	2276
2400	1.617	34.642	1.453	27.726	36.960	45.780	45.301	1.646	0.460	1495.8	2374
2500	1.591	34.647	1.418	27.733	36.968	45.790	44.892	1.691	0.520	1497.4	2473
2600	1.566	34.652	1.386	27.739	36.976	45.799	44.577	1.736	0.440	1499.0	2571
2700	1.543	34.656	1.357	27.744	36.983	45.808	44.310	1.781	0.500	1500.6	2669
2800	1.523	34.660	1.325	27.750	36.990	45.817	43.971	1.825	0.440	1502.2	2767
2900	1.509	34.663	1.302	27.754	36.995	45.823	43.859	1.869	0.430	1503.9	2866
3000	1.494	34.666	1.277	27.758	37.001	45.830	43.728	1.912	0.440	1505.5	2964
3100	1.482	34.668	1.256	27.761	37.005	45.836	43.660	1.956	0.410	1507.2	3062
3200	1.468	34.671	1.232	27.765	37.010	45.842	43.542	2.000	0.440	1508.8	3160
3212	1.467	34.671	1.231	27.765	37.011	45.842	43.575	2.005		1509.0	3172

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
5	3.281	33.213	8.00	106.9	56.1	2.17	27.3	0.26	3.281	26.434	35.591	44.339	5
24	2.446	33.225	8.06	105.5	56.1	2.17	27.5	0.26	2.445	26.515	35.717	44.508	24
44	1.797	33.239	7.94	102.2	55.5	2.24	28.3	0.25	1.796	26.576	35.813	44.638	44
64	1.655	33.237	7.83	100.4	55.7	2.26	28.7	0.27	1.653	26.585	35.830	44.662	64
85	1.528	33.236	7.75	99.1	55.5	2.29	28.7	0.29	1.524	26.593	35.846	44.684	85
106	1.372	33.245	8.02	102.1	56.2	2.30	29.0	0.31	1.366	26.611	35.872	44.719	106
126	1.245	33.264	7.47	94.8	57.5	2.33	29.7	0.34	1.238	26.634	35.903	44.757	126
145	1.540	33.347	6.47	82.8	63.3	2.46	32.1	0.28	1.530	26.681	35.932	44.769	145
177	2.929	33.720	2.30	30.6	90.7	3.05	42.6	0.00	2.914	26.871	36.039	44.799	178
222	3.412	33.915	0.56	7.5	107.5	3.30	46.8	0.00	3.394	26.999	36.138	44.870	223
306	3.389	34.047	0.37	5.0	118.6	3.30	46.6	0.00	3.369	27.090	36.229	44.961	307
404	3.300	34.151	0.37	5.0	128.6	3.24	46.2	0.00	3.274	27.182	36.324	45.059	406
508	3.154	34.222	0.38	5.1	137.4	3.23	45.6	0.00	3.121	27.253	36.402	45.143	511
601	3.009	34.280	0.38	5.1	145.1	3.21	45.4	0.00	2.970	27.313	36.469	45.217	605
799	2.734	34.375	0.44	5.8	157.0	3.22	45.1	0.00	2.683	27.414	36.585	45.346	805
995	2.466	34.443	0.56	7.4	164.5	3.19	44.9	0.00	2.402	27.493	36.677	45.451	1003
1241	2.201	34.507	0.90	11.8	173.2	3.13	44.2	0.00	2.122	27.567	36.766	45.553	1251
1512	2.006	34.557	1.29	16.8	176.4	3.05	43.3	0.00	1.910	27.624	36.833	45.631	1526
1512	2.006	34.554	1.27	16.5	177.0	3.05	43.1	0.00	1.891	27.623	36.833	45.632	1526
1733	1.868	34.590	1.63	21.1	177.2	2.98	42.1	0.00	1.734	27.664	36.882	45.689	1750
1981	1.749	34.612	1.96	25.3	175.9	2.90	41.1	0.00	1.577	27.693	36.920	45.734	2001
2471	1.595	34.646	2.58	33.2	169.6	2.76	39.4	0.00	1.377	27.735	36.972	45.797	2499
2953	1.494	34.664	3.09	39.6	163.1	2.67	38.0	0.00	1.230	27.760	37.005	45.837	2990
3155	1.467	34.671	3.21	41.0	161.1	2.63	37.7	0.00	1.150	27.771	37.021	45.857	3196

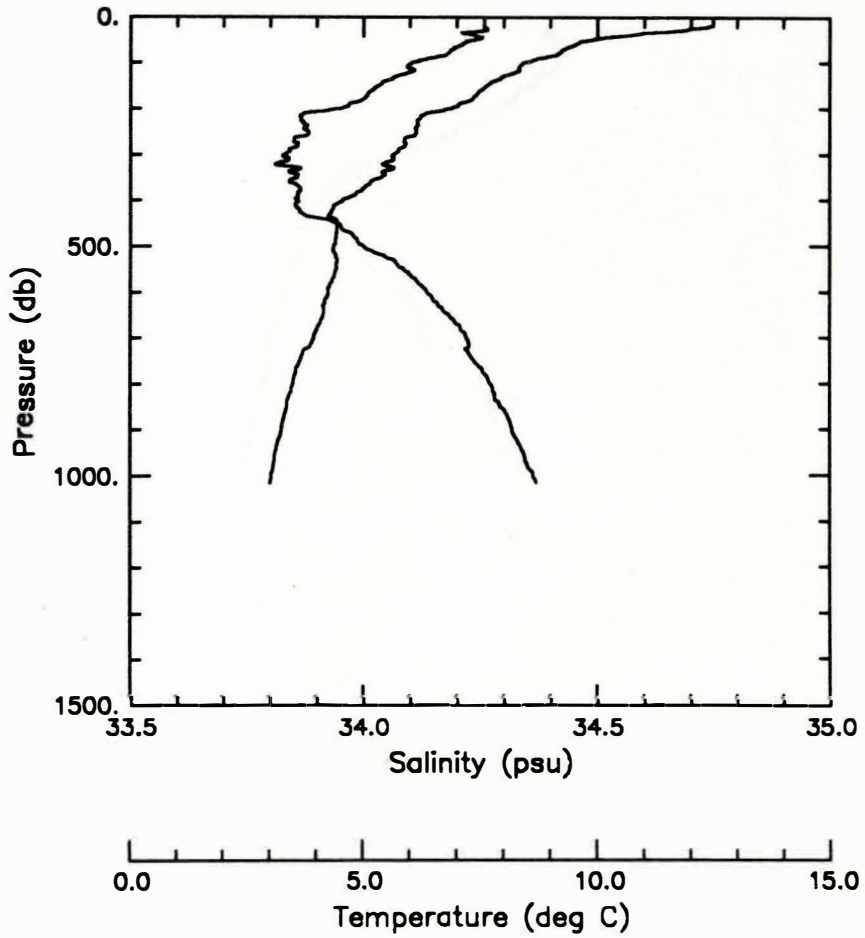
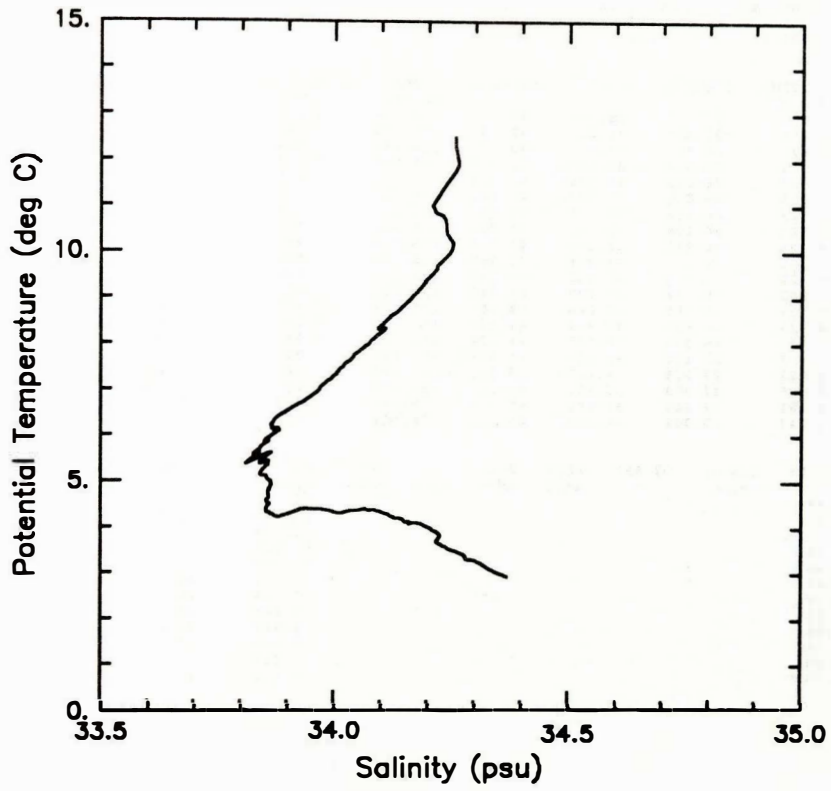


AKADEMIK KOROLEV SAGA II STATION 24
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 40 1.0N 159 59.5E 5/19/87 1824 GMT M 5528

CTD DATA													
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH		
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M		
0	2.472	34.259	2.472	27.340	36.523	45.297	72.585	0.000		1459.2	0		
20	12.310	34.260	12.308	25.956	34.683	43.028	204.424	0.041		1497.3	19		
40	10.596	34.236	10.592	26.254	35.050	43.461	176.526	0.080	6.000	1491.7	39		
60	9.521	34.209	9.514	26.416	35.258	43.713	161.497	0.113	4.000	1488.1	59		
80	9.132	34.176	9.123	26.454	35.314	43.784	158.239	0.145	2.690	1487.0	79		
100	8.461	34.107	8.451	26.505	35.396	43.895	153.658	0.176	2.460	1484.7	99		
150	7.641	34.032	7.627	26.568	35.498	44.033	148.336	0.252	1.760	1482.4	149		
200	6.809	33.939	6.791	26.612	35.581	44.154	144.684	0.325	1.860	1479.9	199		
250	6.127	33.879	6.106	26.654	35.657	44.262	141.049	0.396	1.320	1477.9	248		
300	5.659	33.833	5.635	26.676	35.702	44.329	139.363	0.456	1.420	1476.8	298		
350	5.352	33.852	5.324	26.728	35.770	44.410	134.797	0.535	2.360	1476.4	348		
400	4.553	33.857	4.523	26.822	35.904	44.583	125.682	0.600	2.340	1474.0	397		
450	4.433	33.943	4.400	26.903	35.990	44.673	118.424	0.661	2.120	1474.4	447		
500	4.370	34.000	4.333	26.956	36.045	44.731	113.926	0.719	2.000	1475.1	497		
600	4.244	34.137	4.199	27.079	36.173	44.863	103.154	0.828	1.810	1476.4	596		
700	3.937	34.221	3.886	27.178	36.287	44.991	94.298	0.926	1.660	1476.8	695		
800	3.488	34.272	3.433	27.263	36.395	45.120	86.306	1.017	1.460	1476.7	794		
900	3.245	34.319	3.184	27.325	36.469	45.206	80.844	1.100	1.300	1477.3	894		
1000	3.030	34.365	2.962	27.381	36.537	45.284	75.749	1.178	1.260	1478.1	993		
1016	3.007	34.371	2.938	27.389	36.545	45.293	75.124	1.190		1478.3	1008		

NISKIN BOTTLE DATA														
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%		UM/L	UM/L	UM/L	UM/L	DEG C				DB
2	12.384	34.256	6.56	108.8	12.4	0.51	5.2	0.15	12.383	25.938	34.662	43.005	2	
52	9.667	34.208	6.14	96.0	19.3	0.98	12.0	0.33	9.664	26.390	35.227	43.675	52	
102	8.374	34.114	5.89	89.4	24.4	1.20	15.7	0.02	8.369	26.523	35.417	43.920	102	
152	7.651	34.032	5.32	79.4	26.9	1.28	16.6	0.02	7.645	26.566	35.494	44.029	152	
201	6.674	33.931	6.09	88.8	30.1	1.40	18.2	0.02	6.666	26.622	35.598	44.176	202	
240	6.035	33.866	6.59	94.6	29.1	1.38	17.6	0.02	6.026	26.653	35.661	44.269	241	
301	5.607	33.827D							5.597	26.676	35.704	44.333	302	
399	4.570	33.860	3.46	47.9	67.9	2.32	31.9	0.00	4.559	26.821	35.901	44.577	401	
499	4.357	34.003	2.23	30.8	88.2	2.65	37.5	0.00	4.344	26.957	36.046	44.731	502	
599	4.261	34.138	1.63	22.5	102.7	2.80	39.7	0.00	4.245	27.075	36.167	44.854	603	
797	3.472	34.273	1.12	15.1	129.0	3.01	43.4	0.00	3.452	27.263	36.393	45.117	803	
1005	3.006	34.372	0.85	11.4	144.0	3.07	44.1	0.00	2.980	27.386	36.540	45.286	1013	

KOROLEV Sta. 24



AKADEMIK KOROLEV SAGA II
 LATITUDE 37 21.9N
 LONGITUDE 160 0.6E

STATION 25
 MO/DY/YR 5/20/87

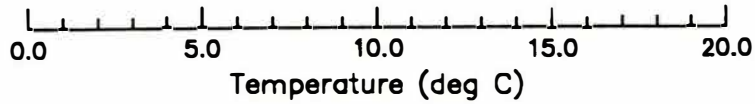
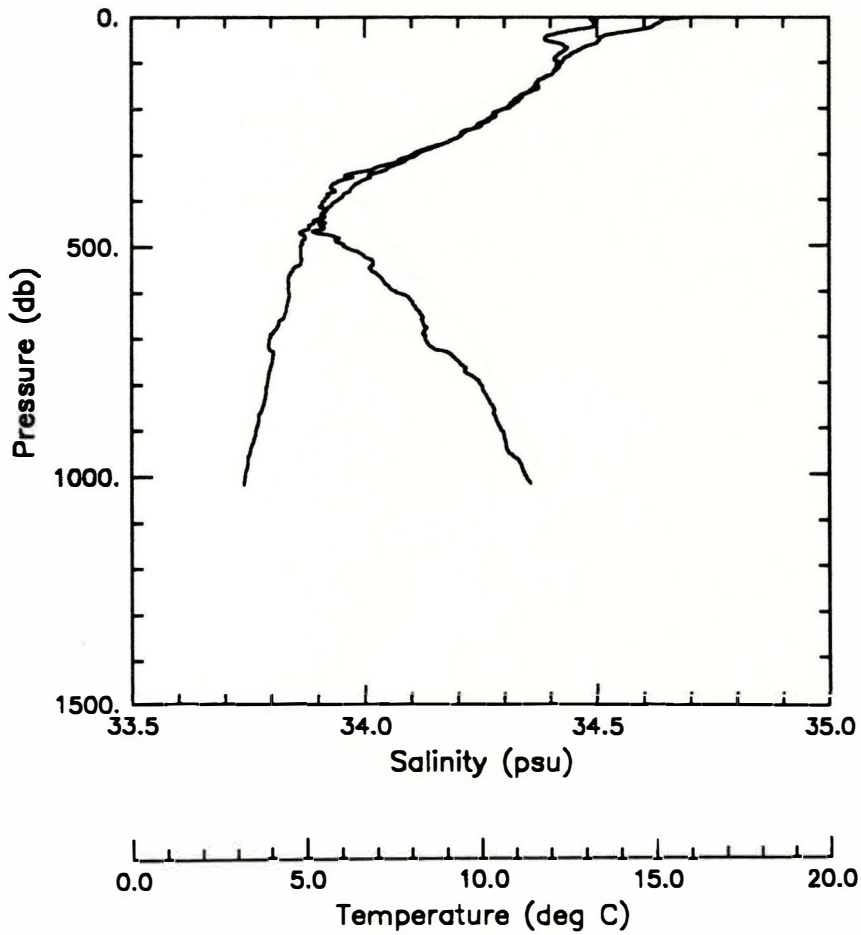
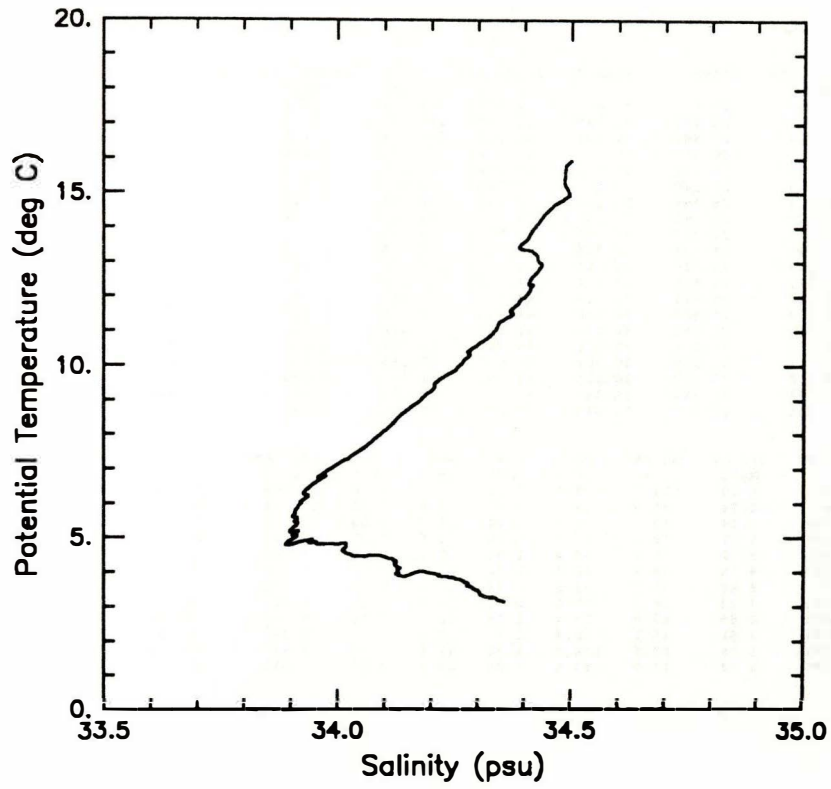
START TIME
 GMT 612

BOTTOM
 M 4705

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DTN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	5.936	34.500	5.936	27.165	36.167	44.771	89.096	0.000		1473.9	0
20	14.871	34.486	14.868	25.606	34.233	42.485	237.796	0.048		1506.0	19
40	13.628	34.400	13.623	25.803	34.477	42.773	219.597	0.094	4.900	1502.2	39
60	13.170	34.423	13.161	25.914	34.605	42.918	209.578	0.137	4.340	1501.1	59
80	12.614	34.420	12.604	26.022	34.736	43.068	199.747	0.178	3.540	1499.5	79
100	12.321	34.414	12.308	26.076	34.800	43.144	195.194	0.218	2.720	1498.8	99
150	11.548	34.372	11.529	26.190	34.947	43.320	185.437	0.313	2.740	1497.0	149
200	10.647	34.300	10.623	26.298	35.093	43.502	176.080	0.403	2.690	1494.6	199
250	9.554	34.213	9.526	26.417	35.260	43.713	165.408	0.488	2.770	1491.4	248
300	8.148	34.101	8.118	26.550	35.456	43.969	152.978	0.568	2.830	1486.8	298
350	6.754	33.963	6.722	26.639	35.612	44.188	144.324	0.642	2.390	1482.1	348
400	5.876	33.914	5.842	26.714	35.729	44.345	137.211	0.713	2.270	1479.4	398
450	5.165	33.909	5.130	26.795	35.846	44.495	129.432	0.779	2.370	1477.4	447
500	4.862	33.958	4.823	26.869	35.934	44.597	122.683	0.842	2.200	1477.0	497
600	4.522	34.069	4.477	26.996	36.077	44.754	111.392	0.959	1.940	1477.4	596
700	3.967	34.129	3.917	27.102	36.211	44.915	101.456	1.065	1.650	1476.8	695
800	3.887	34.248	3.829	27.205	36.317	45.023	92.580	1.163	1.680	1478.3	795
900	3.570	34.293	3.506	27.273	36.401	45.122	86.365	1.252	1.550	1478.7	894
1000	3.251	34.346	3.181	27.346	36.490	45.227	79.590	1.335	1.670	1479.1	993
1018	3.217	34.356	3.147	27.358	36.503	45.241	78.552	1.349		1479.2	1011

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
2	15.671	34.499							15.671	25.438	34.036	42.261	2
53	13.332	34.416							13.325	25.876	34.561	42.868	53
103	12.227	34.412							12.214	26.092	34.821	43.168	103
152	11.370	34.364							11.351	26.217	34.981	43.361	152
202	10.428	34.285							10.404	26.325	35.128	43.546	202
241	9.603	34.235							9.576	26.426	35.266	43.717	242
301	8.013	34.096							7.983	26.567	35.479	43.998	302
401	5.879	33.919							5.845	26.718	35.733	44.349	403
500	4.868	33.959							4.829	26.869	35.934	44.597	503
598	4.501	34.063							4.455	26.993	36.075	44.754	602
797	3.860	34.251							3.802	27.211	36.323	45.031	803
1009	3.213	34.353							3.143	27.356	36.501	45.240	1017

KOROLEV Sta. 25

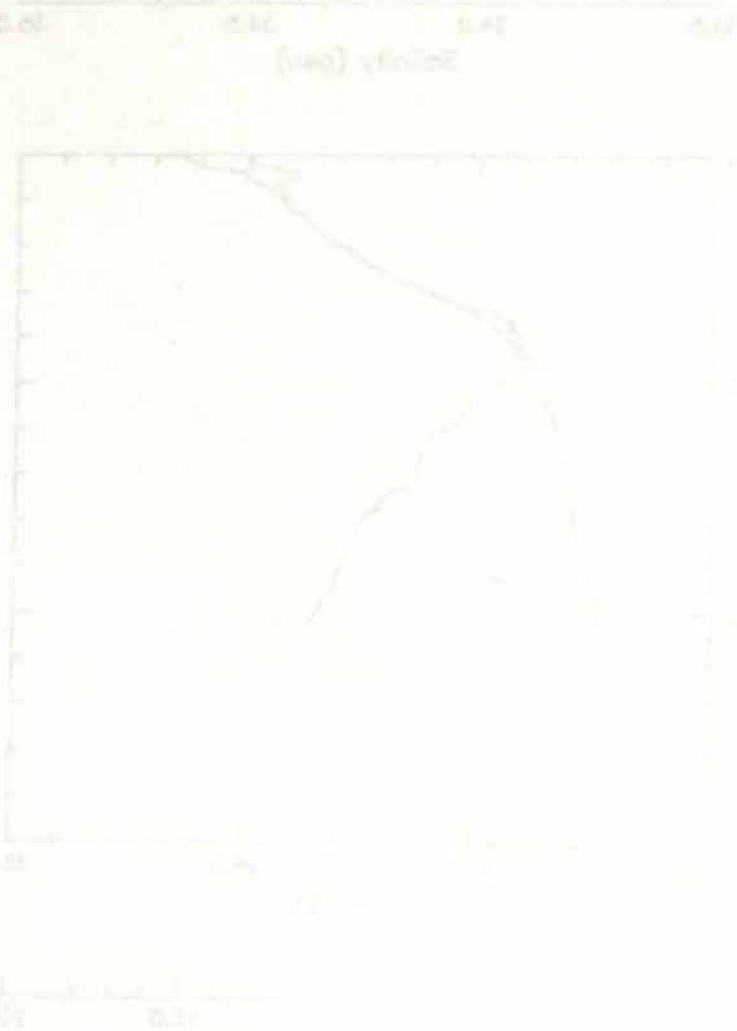


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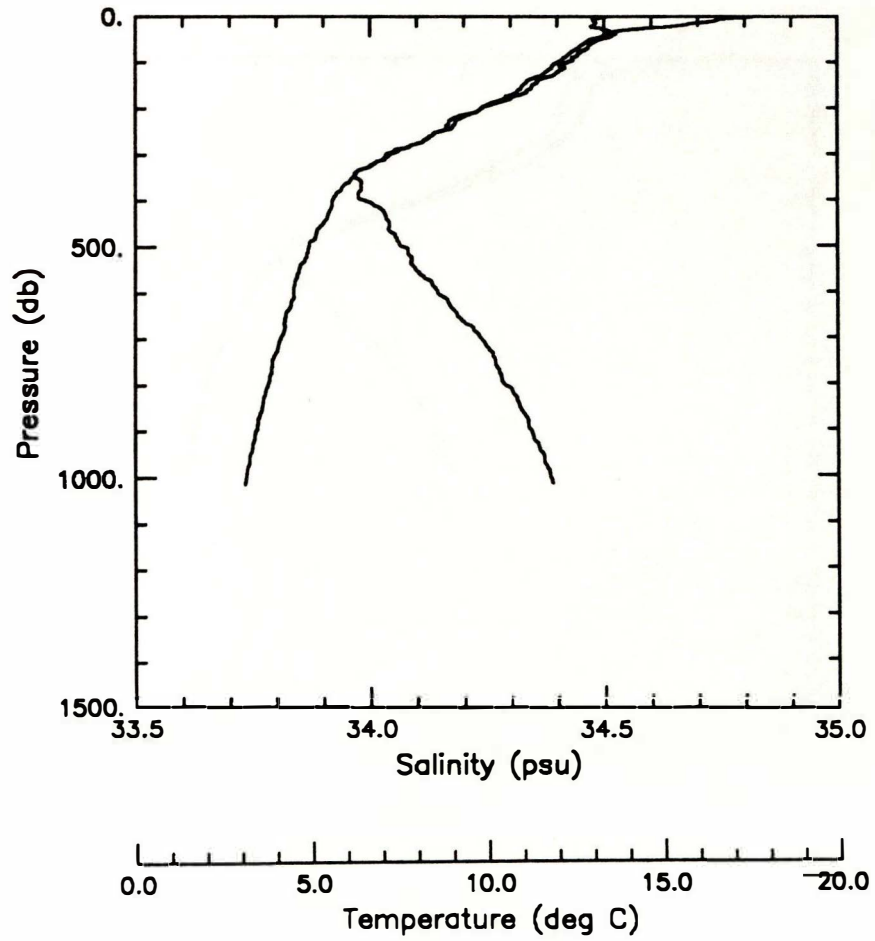
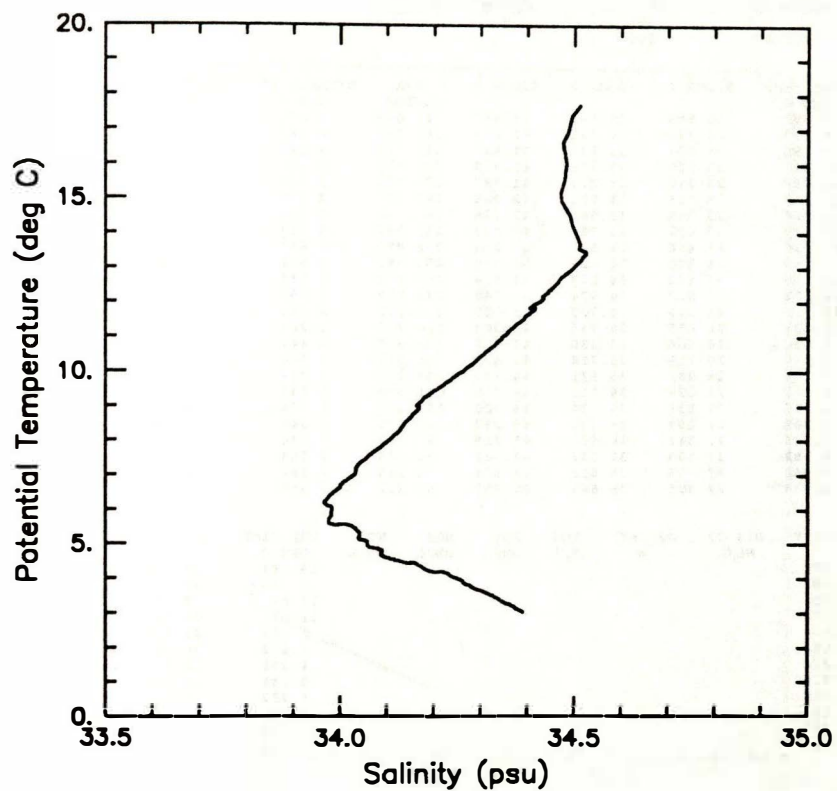
AKADEMIK KOROLEV SAGA II STATION 26
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 14 52.2N 160 0.5E 5/20/97 1836 GMT M 4575

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.710	34.512	7.710	26.934	35.852	44.377	111.068	0.000		1480.8	0
20	15.374	34.480	15.371	25.490	34.099	42.335	248.797	0.053		1507.6	19
40	13.372	34.517	13.366	25.945	34.628	42.932	206.048	0.098	6.390	1501.5	39
50	12.736	34.473	12.728	26.039	34.747	43.074	197.605	0.138	3.570	1499.7	59
80	12.375	34.449	12.365	26.091	34.813	43.154	193.217	0.177	2.950	1499.8	79
100	12.012	34.421	11.999	26.140	34.877	43.232	188.995	0.215	2.780	1497.8	99
150	11.034	34.349	11.015	26.266	35.044	43.437	178.056	0.307	2.670	1495.2	149
200	9.830	34.240	9.808	26.391	35.221	43.663	166.943	0.394	2.820	1491.6	199
250	8.688	34.149	8.661	26.505	35.386	43.876	156.611	0.475	3.010	1488.1	248
300	7.263	34.038	7.235	26.629	35.576	44.128	144.935	0.550	2.760	1483.4	298
350	6.178	33.970	6.148	26.720	35.720	44.321	136.213	0.620	2.510	1479.9	348
400	5.605	33.989	5.572	26.806	35.834	44.461	128.244	0.686	2.330	1478.4	397
450	5.325	34.041	5.289	26.882	35.922	44.562	121.497	0.749	2.100	1478.2	447
500	4.931	34.070	4.892	26.950	36.010	44.668	115.138	0.808	2.050	1477.5	497
600	4.496	34.145	4.451	27.058	36.140	44.817	105.464	0.918	1.730	1477.4	596
700	4.127	34.237	4.076	27.171	36.270	44.964	95.287	1.018	1.940	1477.7	695
800	3.771	34.288	3.713	27.249	36.366	45.077	88.269	1.110	1.810	1477.9	795
900	3.431	34.343	3.368	27.327	36.461	45.188	81.085	1.194	1.440	1478.2	894
1000	3.145	34.385	3.076	27.388	36.536	45.277	75.473	1.272	1.410	1478.7	993
1016	3.111	34.390	3.041	27.395	36.545	45.288	74.830	1.284		1478.8	1009

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST	DEPTH M												
3	17.299	34.500	6.20	113.7	8.5	0.12	0.1	0.00	17.299	25.060	33.603	41.776	3
103	11.805	34.404	5.24	85.9	16.8	0.90	11.6	0.02	11.798	26.165	34.910	43.273	103
152	10.944	34.339	5.14	82.7	20.8	1.04	13.7	0.02	10.931	26.274	35.055	43.451	152
200	9.968	34.256	5.01	78.8	25.1	1.18	15.6	0.01	9.950	26.380	35.203	43.639	201
251	8.791	34.161	5.00	76.6	35.4	1.51	20.2	0.02	8.769	26.498	35.374	43.859	252
301	7.172	34.029	4.36	64.3	42.9	1.74	23.4	0.02	7.149	26.634	35.585	44.141	302
351	6.064	33.970	4.42	63.5	53.2	1.99	26.7	0.01	6.038	26.734	35.739	44.346	353
401	5.545	33.985	3.43	48.7	65.0	2.23	30.3	0.01	5.512	26.811	35.841	44.471	403
449	5.353	34.043	2.89	48.7	73.4	2.39	32.8	0.00	5.312	26.880	35.920	44.559	451
500	4.928	34.064	2.51	35.1	80.9	2.55	35.2	0.00	4.880	26.947	36.008	44.666	503
723	4.032	34.252	1.36	18.6	114.8	2.96	41.1	0.00	3.973	27.194	36.298	44.997	728
1008	3.109	34.386	1.04	13.9	140.6	3.06	43.6	0.00	3.039	27.391	36.542	45.285	1016



KOROLEV Sta. 26



AKADEMIK KOROLEV SAGA II
LATITUDE LONGITUDE

STATION 27
MO/DY/YR

START TIME
GMT

BOTTOM
M

32 21.5N 160 1.5E

5/21/87

630

0

CTD DATA

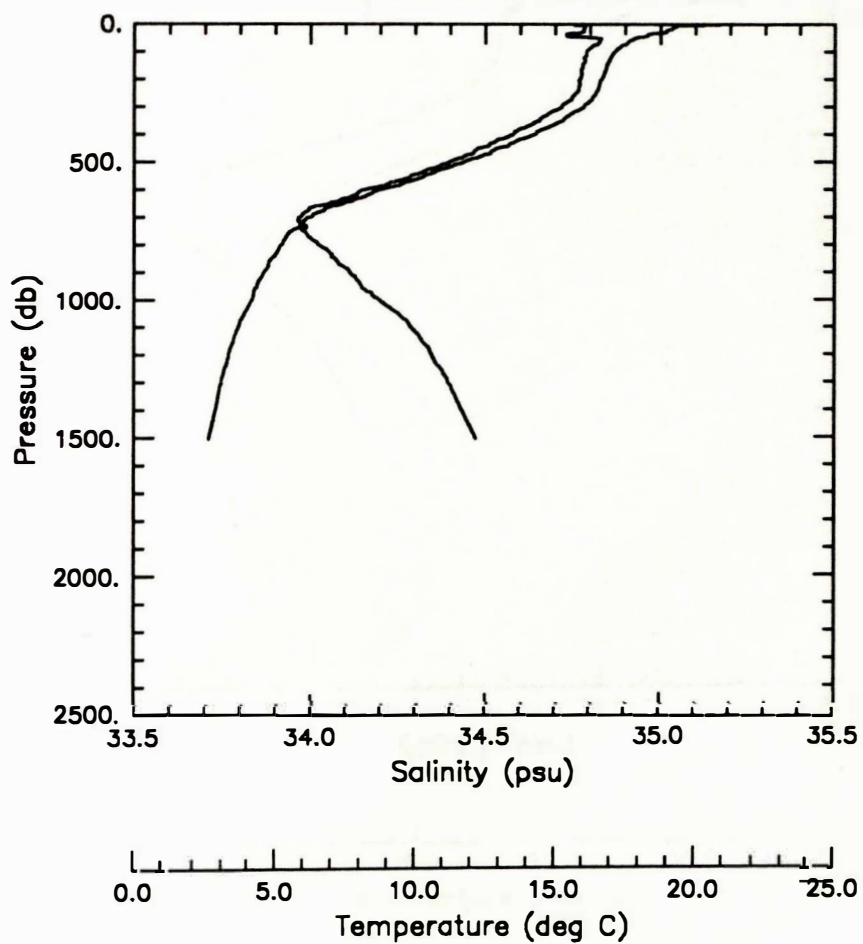
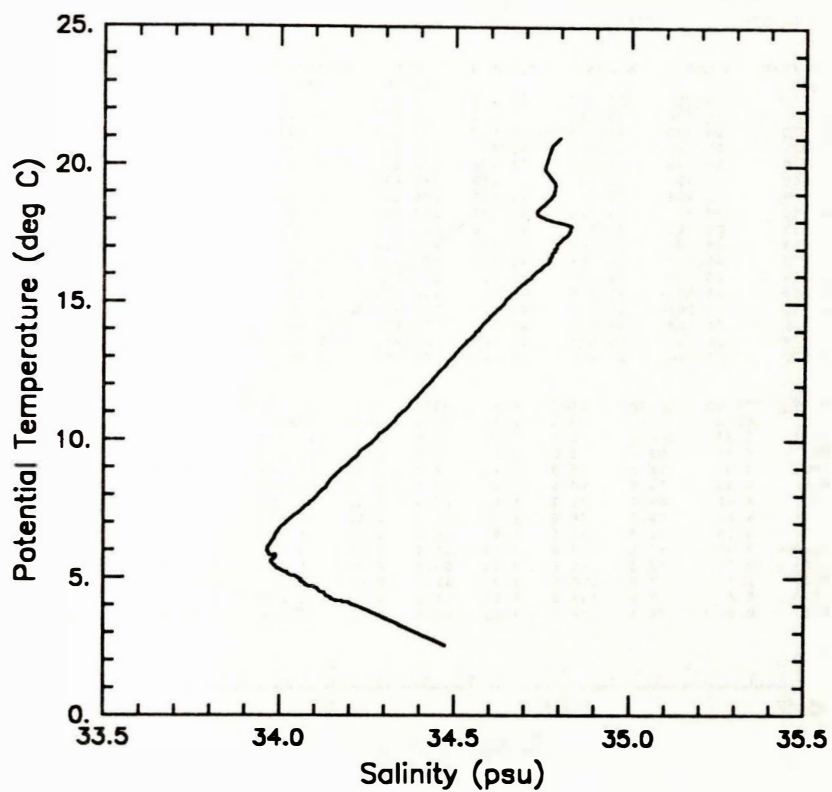
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	0.992	34.798	0.992	27.884	37.141	45.983	21.039	0.000		1453.4	0
20	19.063	34.782	19.059	24.840	33.322	41.438	310.730	0.063		1518.9	19
40	18.305	34.741	18.298	25.001	33.507	41.647	296.160	0.124	5.500	1517.0	39
60	17.687	34.828	17.677	25.220	33.746	41.903	275.970	0.181		1515.7	59
80	17.372	34.808	17.358	25.283	33.819	41.987	270.721	0.236		1515.0	79
100	17.134	34.790	17.117	25.326	33.871	42.046	267.231	0.290		1514.6	99
150	16.849	34.778	16.824	25.386	33.941	42.126	263.190	0.422		1514.6	149
200	16.661	34.771	16.629	25.427	33.988	42.179	261.033	0.553		1514.8	199
250	16.466	34.761	16.426	25.466	34.035	42.233	258.883	0.683		1515.1	249
300	16.010	34.718	15.963	25.540	34.125	42.338	253.382	0.811		1514.5	298
350	15.248	34.652	15.195	25.662	34.275	42.514	242.974	0.935		1512.8	348
400	14.237	34.577	14.178	25.823	34.474	42.749	228.538	1.053		1510.3	398
450	12.992	34.486	12.929	26.009	34.709	43.029	211.362	1.163		1507.0	448
500	11.732	34.398	11.668	26.185	34.935	43.303	194.955	1.265		1503.4	497
600	8.760	34.157	8.695	26.506	35.386	43.874	163.375	1.444		1494.1	597
700	6.218	33.970	6.155	26.719	35.718	44.319	141.240	1.596		1485.8	696
800	5.220	34.023	5.154	26.883	35.931	44.577	125.298	1.729		1483.5	795
900	4.603	34.112	4.532	27.024	36.101	44.776	111.986	1.847		1482.8	894
1000	4.177	34.196	4.100	27.136	36.234	44.928	101.498	1.954		1482.8	993
1100	3.689	34.287	3.608	27.259	36.381	45.097	89.675	2.049		1482.5	1092
1200	3.334	34.347	3.248	27.341	36.482	45.215	81.802	2.134		1482.7	1191
1300	3.074	34.394	2.982	27.403	36.557	45.302	75.974	2.213		1483.3	1290
1400	2.866	34.433	2.768	27.453	36.618	45.374	71.268	2.287	1.360	1484.2	1389
1504	2.638	34.474	2.534	27.506	36.683	45.450	66.212	2.358		1485.0	1492

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
	3	19.285	34.791							19.284	24.790	33.264	41.374	3
	102	17.107	34.787							17.090	25.330	33.876	42.052	102
	301	15.915	34.709							15.891	25.549	34.137	42.353	302
	499	11.596	34.390							11.570	26.197	34.951	43.322	502
	598	8.589	34.146							8.563	26.518	35.404	43.898	602
	649	7.301	34.044							7.272	26.628	35.574	44.124	653
	697	6.289	33.976							6.258	26.711	35.705	44.302	702
	747	5.621	33.978							5.588	26.796	35.823	44.450	752
	795	5.258	34.019							5.232	26.870	35.914	44.557	800
	895	4.603	34.116							4.565	27.023	36.099	44.772	901
	1091	3.711	34.282							3.659	27.249	36.369	45.083	1099
	1490	2.637	34.471							2.571	27.501	36.675	45.441	1503



KOROLEV Sta. 27



AKADEMIK KOROLEV SAGA II STATION 28
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 M GMT M

29 52.1N 160 0.0E 5/21/87 1836 5718

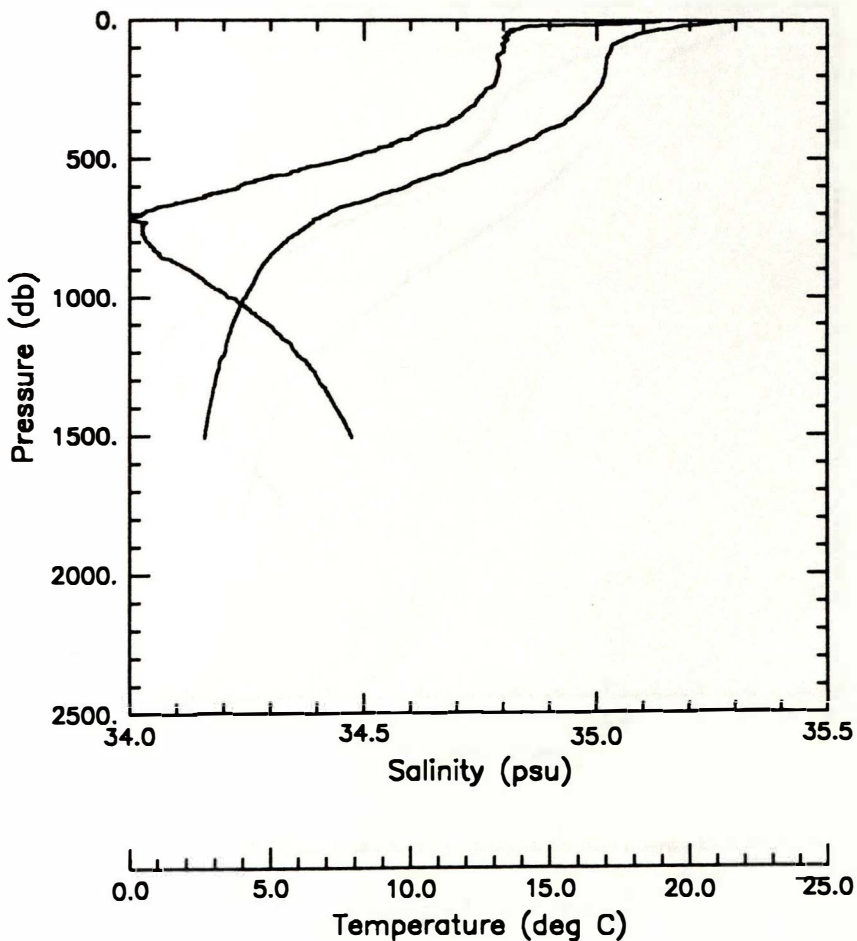
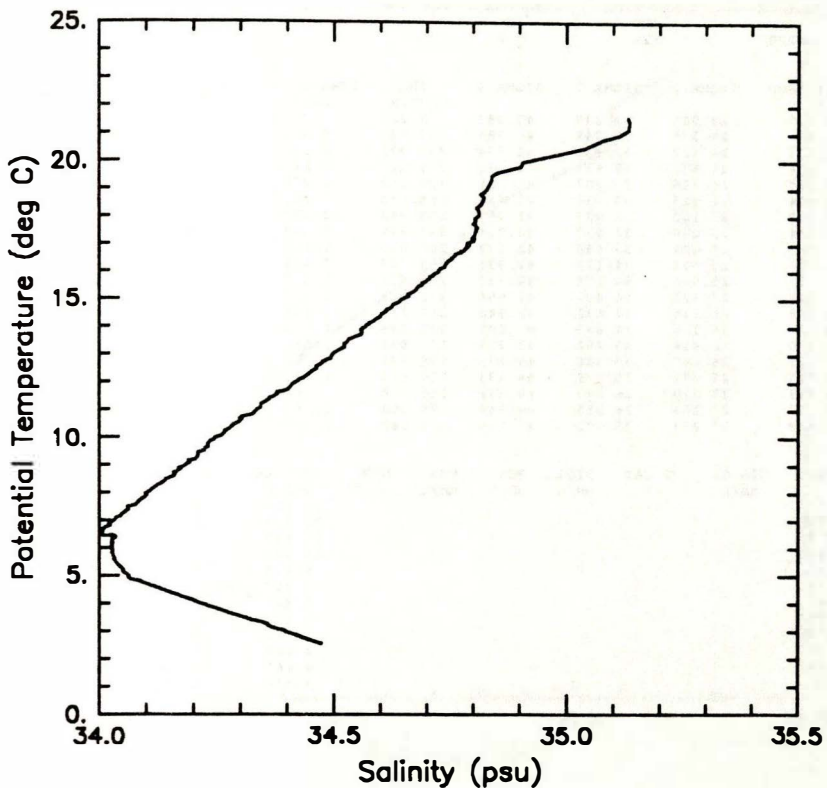
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	1.713	35.131	1.713	28.099	37.310	46.109	0.648	0.000		1457.0	0
20	19.861	34.907	19.857	24.730	33.185	41.277	321.276	0.066		1521.3	19
40	18.577	34.818	18.570	24.992	33.489	41.619	297.024	0.128	5.880	1517.9	39
60	17.867	34.805	17.857	25.159	33.679	41.831	281.807	0.186	4.750	1516.2	59
80	17.384	34.803	17.370	25.276	33.812	41.979	271.381	0.241	3.570	1515.1	79
100	17.196	34.802	17.180	25.320	33.863	42.036	267.831	0.295	2.180	1514.8	99
150	17.013	34.789	16.989	25.356	33.905	42.085	266.123	0.428	1.280	1515.1	149
200	16.944	34.787	16.911	25.373	33.925	42.107	266.225	0.561	1.280	1515.7	199
250	16.700	34.765	16.659	25.415	33.976	42.166	263.842	0.694	2.040	1515.8	249
300	16.316	34.740	16.268	25.487	34.062	42.265	258.514	0.824	2.360	1515.4	298
350	15.808	34.704	15.753	25.577	34.169	42.390	251.404	0.952	2.560	1514.6	348
400	14.825	34.627	14.764	25.736	34.365	42.619	237.211	1.074	3.230	1512.3	398
450	13.894	34.557	13.829	25.881	34.545	42.833	224.293	1.190	3.410	1510.0	448
500	12.640	34.464	12.572	26.063	34.777	43.110	207.331	1.298	3.580	1506.6	497
600	9.861	34.233	9.791	26.388	35.219	43.662	175.931	1.488	3.200	1498.3	597
700	6.995	34.025	6.928	26.661	35.623	44.188	147.981	1.649	2.600	1488.9	696
1506	2.657	34.473	2.553	27.504	36.680	45.446	66.493	2.513		1485.1	1494

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	uM/L	DEG C				DB
2	21.567	35.131	5.23	104.3	1.8	0.03	0.0	0.00	0.00	21.566	24.440	32.841	40.883	2
104	17.189	34.801	5.45	99.9	3.0	0.17	0.5	0.54	17.172	25.322	33.864	42.038	104	104
302	16.312	34.740	5.07	91.3	5.9	0.40	4.4	0.01	16.263	25.488	34.063	42.266	303	303
500	12.618	34.459	4.43	73.8	18.5	1.01	13.3	0.01	12.550	26.063	34.778	43.112	503	503
598	9.824	34.183	4.41	69.1	31.2	1.44	19.4	0.01	9.754	26.356	35.189	43.633	602	602
648	8.370	34.126	4.40	66.7	36.6	1.57	21.0	0.01	8.301	26.543	35.440	43.945	652	652
698	6.989	34.026	4.19	61.5	45.3	1.82	24.6	0.01	6.922	26.662	35.625	44.190	703	703
747	6.208	34.029	3.27	47.1	58.8	2.18	30.0	0.01	6.140	26.768	35.767	44.368	752	752
797	5.496	34.038	2.70	38.2	71.6	2.43	33.5	0.01	5.428	26.863	35.897	44.530	802	802
995	4.097	34.213	1.30	17.8	110.5	2.97	41.7	0.00	4.029	27.157	36.259	44.956	1002	1002
1202	3.343	34.357	0.81	10.9	134.8	3.13	44.4	0.00	3.265	27.347	36.487	45.219	1212	1212
1492	2.658	34.471	0.94	12.4	156.5	3.13	44.9	0.01	2.554	27.502	36.678	45.444	1505	1505

KOROLEV Sta. 28



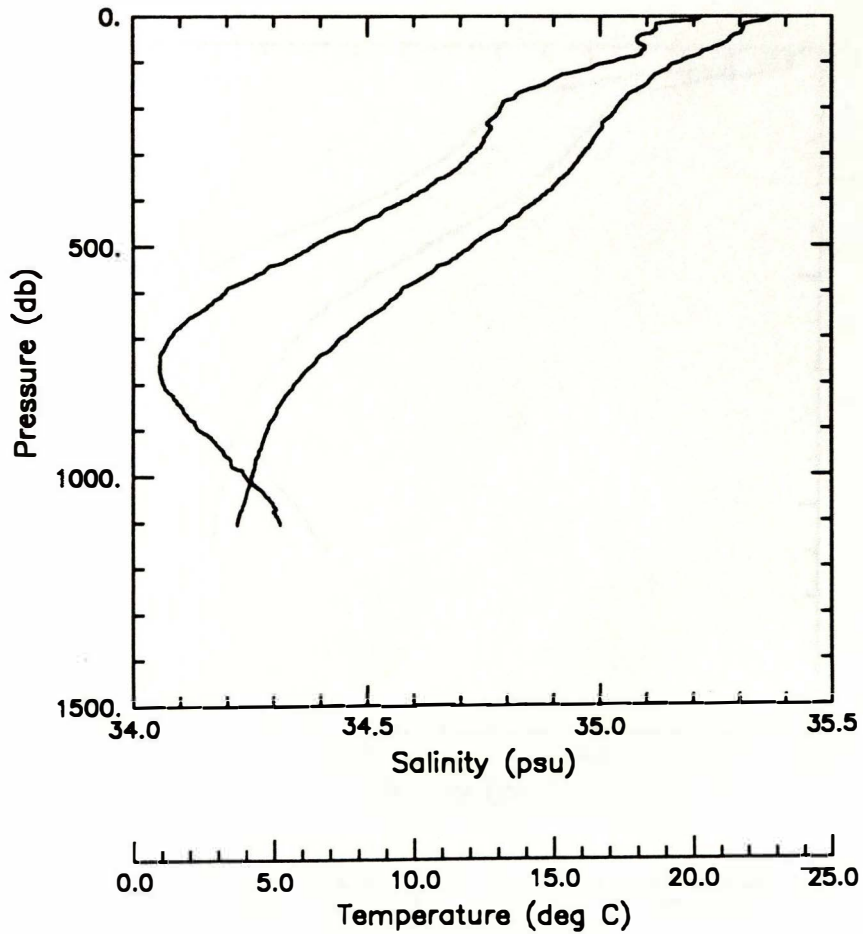
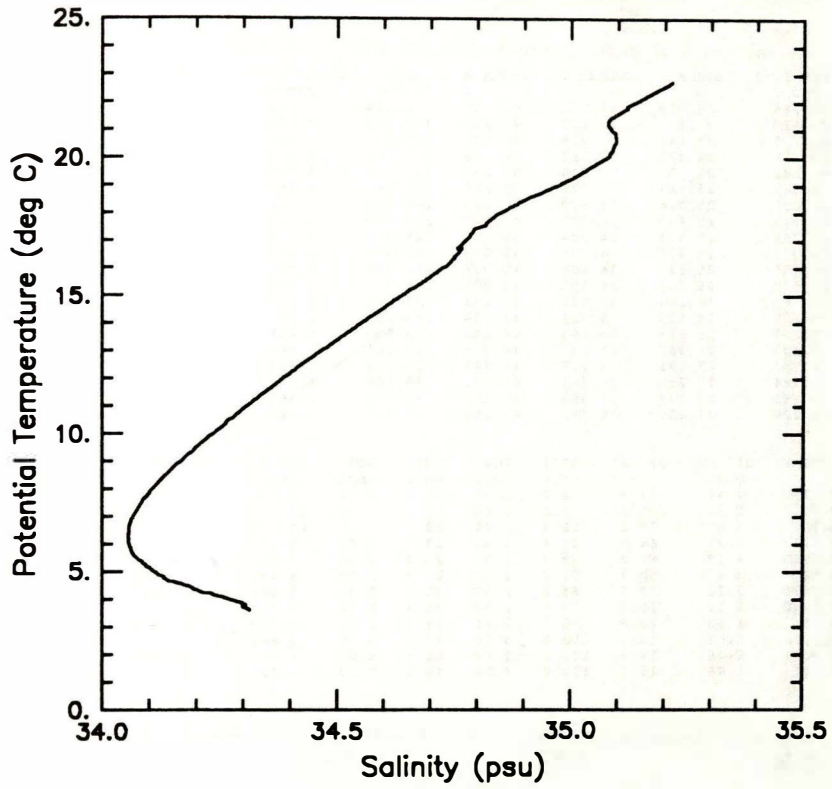
AKADEMIK KOROLEV SAGA II STATION 29
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 27 16.7N 160 0.4E 5/22/87 GMT 624 M 0

CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
0	2.725	35.216	2.725	28.083	37.237	45.983	2.222	0.000		1461.5	0
20	21.854	35.124	21.850	24.356	32.749	40.783	356.981	0.073		1526.9	19
40	21.520	35.095	21.513	24.427	32.831	40.874	350.991	0.144	4.210	1526.3	39
60	21.025	35.086	21.014	24.557	32.975	41.032	339.423	0.213	5.200	1525.3	59
80	20.253	35.086	20.238	24.766	33.207	41.286	320.258	0.279	5.320	1523.6	79
100	19.442	35.020	19.424	24.928	33.396	41.499	305.433	0.341	4.550	1521.6	99
150	18.255	34.874	18.229	25.120	33.627	41.767	288.862	0.489	3.460	1518.9	149
200	17.267	34.787	17.234	25.296	33.837	42.008	273.661	0.629	2.920	1516.7	199
250	16.654	34.763	16.613	25.424	33.986	42.178	262.980	0.763	2.660	1515.7	249
300	16.057	34.726	16.009	25.536	34.119	42.331	253.778	0.892	2.660	1514.6	298
350	15.364	34.665	15.310	25.646	34.255	42.490	244.552	1.017	2.910	1513.2	348
400	14.441	34.583	14.382	25.785	34.429	42.696	232.317	1.136	3.230	1511.0	398
450	13.322	34.488	13.258	25.945	34.632	42.940	217.770	1.249	3.280	1508.1	448
500	12.070	34.383	12.004	26.110	34.847	43.202	202.339	1.354	3.150	1504.6	497
600	9.518	34.196	9.450	26.416	35.262	43.719	172.837	1.541	2.810	1497.0	597
700	7.398	34.077	7.329	26.647	35.589	44.136	149.980	1.703	2.710	1490.6	696
800	5.759	34.064	5.689	26.852	35.872	44.493	129.330	1.843	2.660	1485.8	795
900	4.761	34.142	4.689	27.030	36.099	44.766	111.758	1.963	2.370	1483.4	894
1000	4.234	34.239	4.157	27.164	36.259	44.949	99.000	2.068	2.070	1483.1	994
1106	3.701	34.315	3.619	27.279	36.401	45.116	87.861	2.167		1482.7	1098

NISKIN BOTTLE DATA

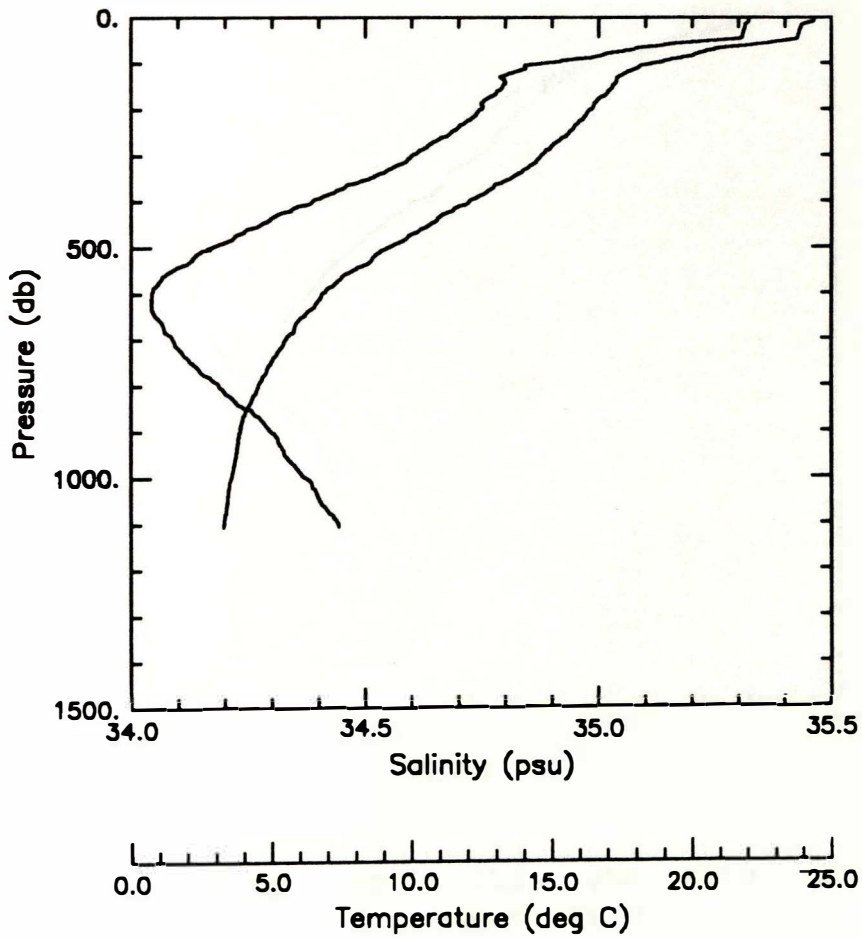
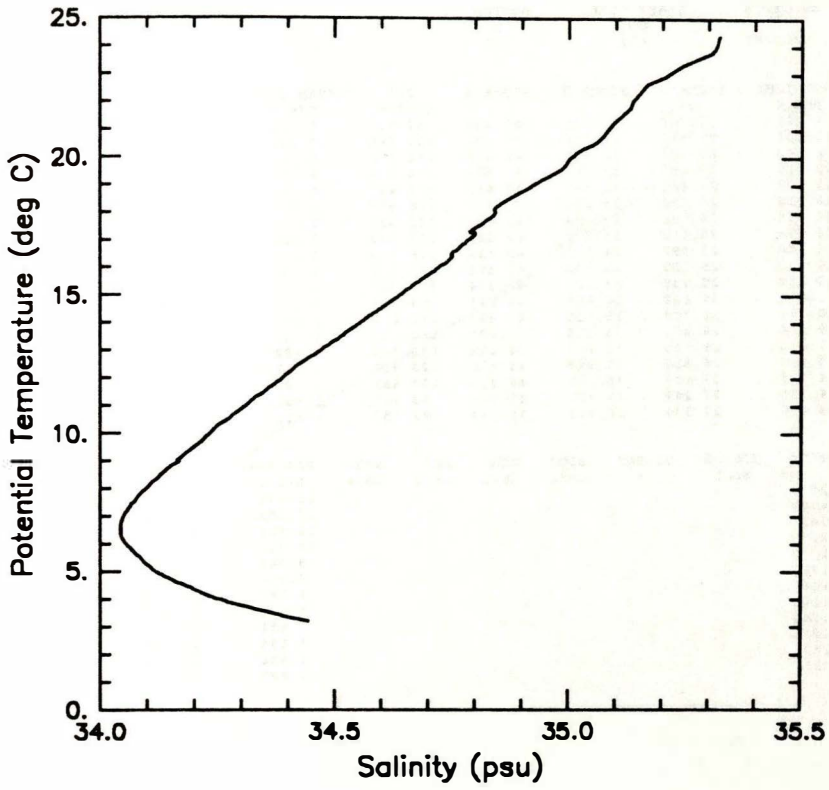
CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2	SAT	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
	7	22.482	35.177								22.482	24.218	32.593	40.609	7
	204	17.356	34.799								17.339	25.280	33.817	41.986	205
	502	11.989	34.378								11.949	26.116	34.856	43.213	505
	552	10.735	34.288								10.674	26.280	35.072	43.479	555
	601	9.515	34.198								9.446	26.418	35.264	43.721	605
	651	8.384	34.132								8.315	26.545	35.442	43.946	655
	701	7.395	34.087								7.326	26.655	35.597	44.144	706
	773	6.240	34.059								6.172	26.787	35.785	44.384	778
	822	5.581	34.073								5.512	26.880	35.910	44.538	828
	882	4.924	34.134								4.842	27.007	36.068	44.728	888
	940	4.565	34.184								4.467	27.088	36.168	44.844	947
	1097	3.702	34.314								3.586	27.282	36.405	45.122	1105



AKADEMIK KOROLEV SAGA II			STATION 30		START TIME		BOTTOM	
LATITUDE	LONGITUDE		MO/DY/YR	GMT	M			
24 39.7N	160 1.4E		5/22/87	1830	0			

CTD DATA											
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	4.366	35.324	4.366	28.005	37.072	45.736	9.594	0.000		1468.6	0
20	23.929	35.314	23.925	23.903	32.237	40.215	400.163	0.081		1532.4	19
40	23.786	35.305	23.778	23.940	32.278	40.259	397.547	0.161	5.680	1532.4	39
60	22.023	35.141	22.011	24.324	32.712	40.742	361.717	0.238	8.160	1528.1	59
80	20.097	35.015	20.082	24.753	33.200	41.284	321.472	0.305	7.410	1523.1	79
100	18.578	34.882	18.561	25.043	33.539	41.669	294.409	0.367	6.110	1519.0	99
150	17.156	34.794	17.131	25.326	33.870	42.045	269.026	0.506	3.010	1515.5	149
200	16.375	34.746	16.343	25.474	34.046	42.247	256.406	0.637	2.910	1513.9	199
250	15.605	34.685	15.566	25.604	34.204	42.430	245.432	0.762	3.080	1512.3	249
300	14.621	34.602	14.577	25.758	34.394	42.655	231.946	0.882	2.960	1510.0	298
350	13.504	34.508	13.455	25.920	34.600	42.901	217.358	0.994	3.650	1507.1	348
400	12.042	34.386	11.989	26.115	34.853	43.208	199.251	1.098	3.650	1502.8	398
450	10.638	34.276	10.583	26.286	35.083	43.493	183.074	1.194	3.230	1498.6	448
500	9.164	34.171	9.108	26.452	35.313	43.784	167.019	1.281	3.240	1494.0	497
500	6.819	34.045	6.763	26.699	35.668	44.241	142.590	1.436	2.550	1486.6	597
700	5.484	34.089	5.425	26.903	35.937	44.569	122.725	1.569	2.600	1483.0	696
800	4.519	34.187	4.457	27.091	36.172	44.848	104.483	1.683	2.440	1480.9	795
900	3.850	34.299	3.784	27.250	36.363	45.071	89.169	1.779	1.800	1479.9	894
1000	3.555	34.371	3.483	27.338	36.465	45.187	81.150	1.864	1.950	1480.4	993
1106	3.298	34.443	3.220	27.420	36.560	45.293	73.677	1.946		1481.2	1098

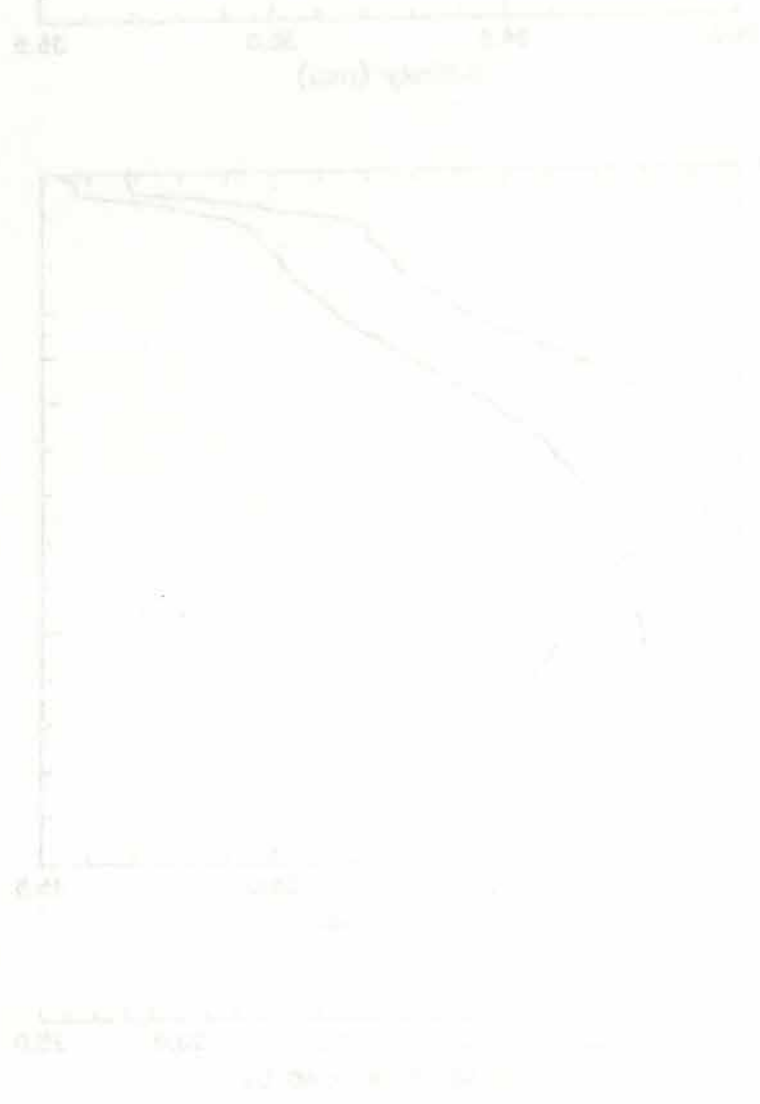
NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRE
	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				
6	24.292	35.328D	4.96	103.9	2.0	0.04	0.1	0.00	24.291	23.805	32.129	40.097		
105	18.631	34.893	5.60	105.6	3.0	0.08	0.1	0.01	18.595	25.043	33.538	41.667	10	
353	13.474	34.506	4.67	79.2	12.2	0.79	10.4	0.00	13.402	25.930	34.611	42.914	355	
501	9.244	34.177	4.32	66.8	29.4	1.43	19.7	0.00	9.182	26.445	35.302	43.770	504	
551	7.911	34.092D	4.19	62.8	38.0	1.69	23.4	0.00	7.849	26.583	35.501	44.026	554	
601	6.760	34.043	3.47	50.7	51.2	2.02	27.5	0.00	6.699	26.706	35.678	44.254	604	
650	5.945	34.063D	2.72	39.0	65.2	2.33	32.8	0.00	5.883	26.827	35.838	44.450	654	
699	5.378	34.096D	2.10	29.7	77.6	2.57	36.2	0.00	5.313	26.922	35.961	44.599	704	
748	4.856	34.138	1.63	22.8	90.7	2.76	39.1	0.00	4.789	27.016	36.080	44.742	754	
846	4.050	34.252	1.03	14.1	112.8	3.00	43.0	0.00	3.984	27.193	36.296	44.995	804	
946	3.708	34.338	1.06	14.4	120.0	2.99	42.9	0.00	3.639	27.296	36.416	45.130	854	
1096	3.298	34.441	1.06	14.3	134.6	3.06	44.1	0.00	3.220	27.419	36.559	45.292	904	



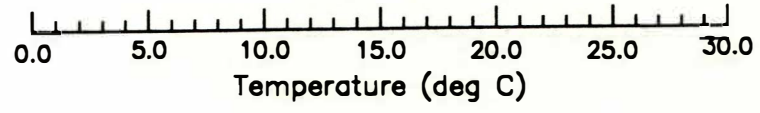
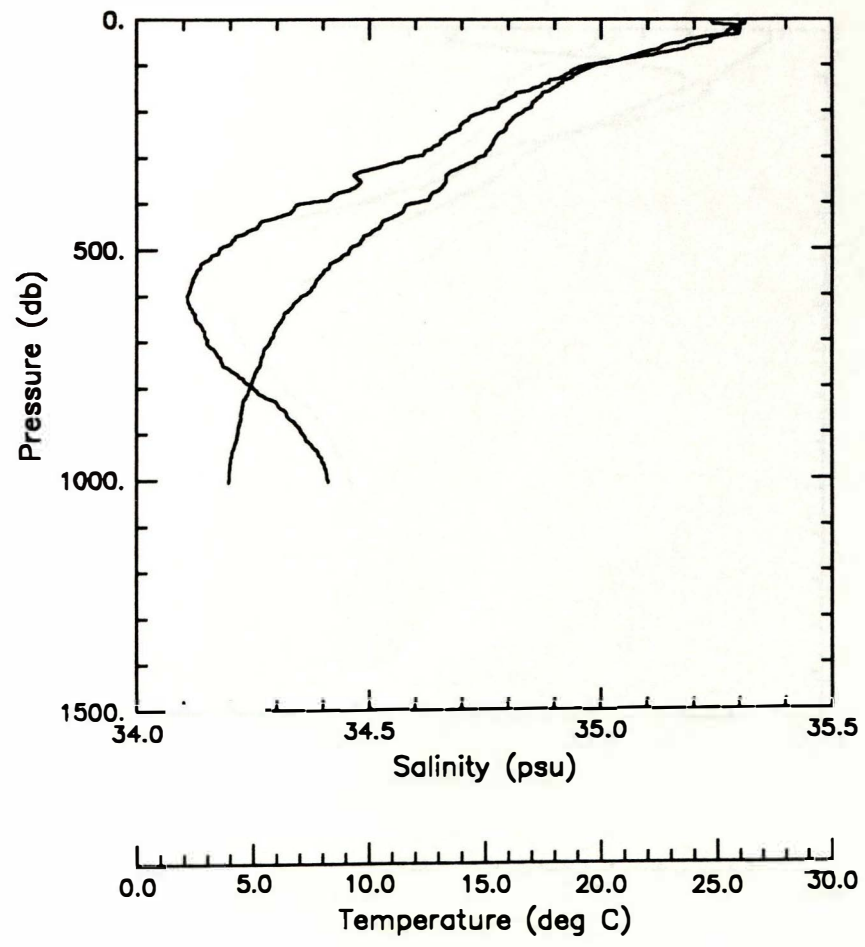
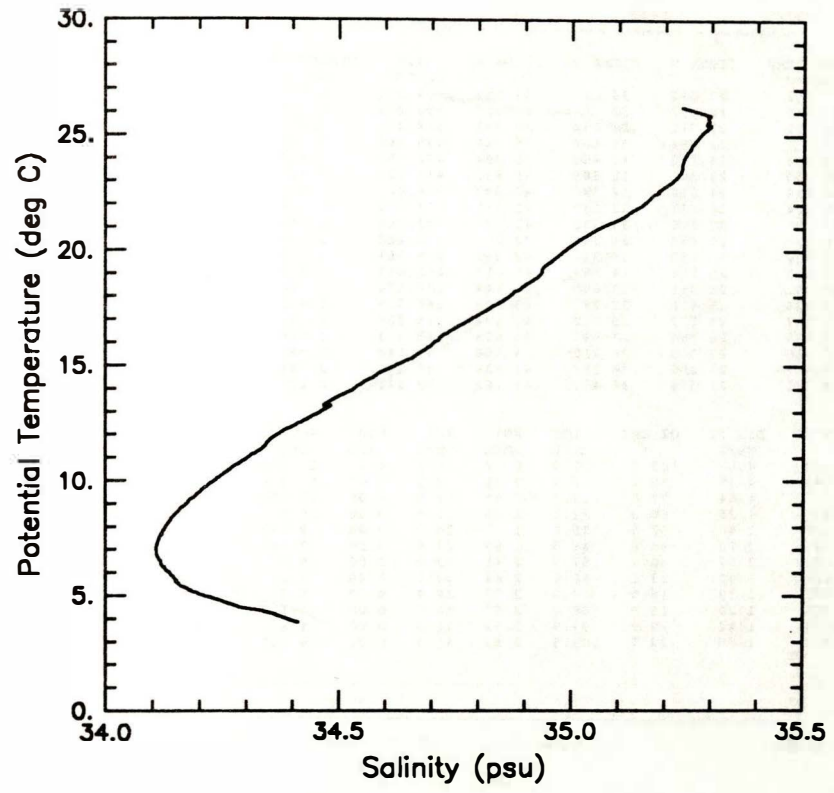
AKADEMIK KOROLEV SAGA II STATION 31
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 22 4.4N 160 0.0E 5/23/87 GMT M
 624 0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	6.221	35.234	6.221	27.709	36.686	45.266	37.621	0.000		1475.9	0
20	25.541	35.292	25.637	23.368	31.658	39.594	451.260	0.092		1536.6	19
40	24.261	35.250	24.253	23.757	32.083	40.053	414.963	0.180	8.220	1533.5	39
60	22.623	35.188	22.611	24.189	32.561	40.573	374.571	0.258	7.530	1529.7	59
80	21.322	35.092	21.307	24.481	32.891	40.940	347.446	0.331	6.850	1526.5	79
100	19.937	34.973	19.819	24.790	33.245	41.337	318.695	0.397	6.430	1522.6	99
150	17.931	34.856	17.905	25.186	33.704	41.854	282.525	0.546	4.340	1517.9	149
200	16.656	34.747	16.624	25.410	33.972	42.153	262.620	0.682	3.750	1514.8	199
250	15.596	34.673	15.558	25.597	34.197	42.424	246.100	0.809	3.000	1512.3	249
300	14.758	34.592	14.713	25.720	34.352	42.608	235.578	0.930	3.740	1510.4	298
350	13.302	34.477	13.253	25.933	34.625	42.934	215.582	1.041	2.770	1506.3	348
400	11.923	34.361	11.871	26.118	34.861	43.221	198.873	1.146	4.060	1502.4	398
450	10.445	34.257	10.391	26.305	35.110	43.528	181.100	1.241	3.290	1497.9	448
500	9.179	34.178	9.124	26.455	35.315	43.795	166.752	1.328	3.140	1494.1	497
550	7.134	34.109	7.076	26.705	35.660	44.218	142.345	1.482	3.210	1487.9	597
700	5.697	34.150	5.637	26.926	35.948	44.570	120.980	1.512	2.470	1484.0	696
800	4.927	34.249	4.763	27.107	36.170	44.831	103.681	1.724	2.560	1482.2	795
900	4.305	34.356	4.235	27.249	36.338	45.023	90.331	1.820	1.870	1481.8	894
1066	3.926	34.412	3.850	27.334	36.441	45.144	82.557	1.912		1482.1	999

CAST 1	BOTTLE DEPTH M	DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
		TEMP DEG C	TEMP DEG C												
	8	26.177	35.257D								26.176	23.174	31.451	39.375	8
	353	13.201	34.476D								13.186	25.950	34.640	42.951	355
	403	11.666	34.347								11.621	26.154	34.907	43.277	405
	452	10.371	34.255								10.311	26.317	35.126	43.547	455
	502	9.145	34.177D								9.084	26.461	35.323	43.795	505
	551	8.018	34.131								7.956	26.598	35.511	44.031	554
	601	7.020	34.116								6.957	26.728	35.688	44.251	605
	640	6.497	34.119D								6.432	26.801	35.785	44.371	644
	700	5.716	34.154D								5.651	26.928	35.949	44.570	705
	749	5.266	34.187								5.195	27.008	36.051	44.693	754
	804	4.763	34.257								4.686	27.122	36.189	44.854	809
	998	3.926	34.411								3.842	27.334	36.442	45.145	1005



KOROLEV Sta. 31

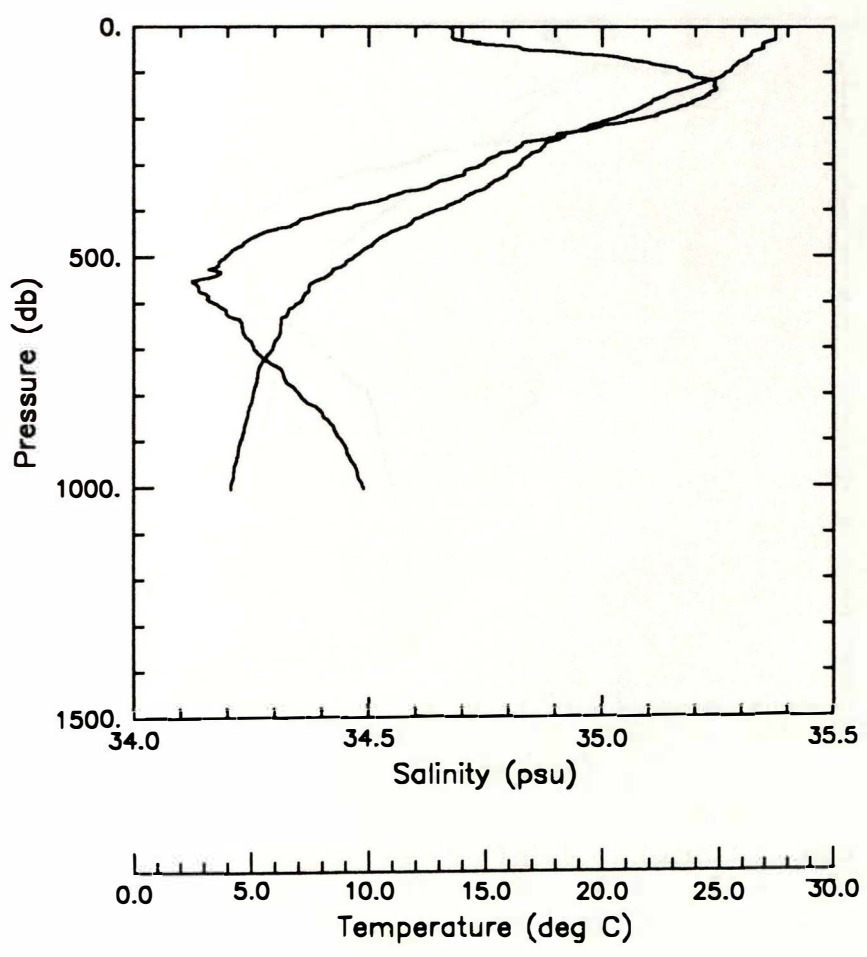
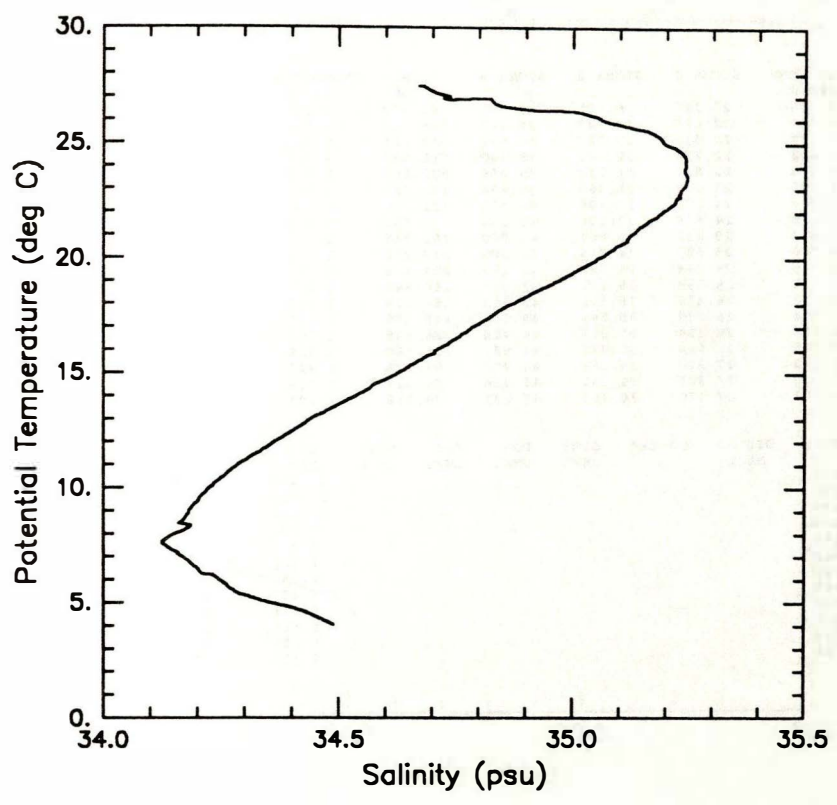


AKADEMIK KOROLEV SAGA II STATION 32
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 19 31.0N 160 0.0E 5/23/87 1830 3490

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.452	34.666	7.452	27.092	36.020	44.553	96.071	0.000		1480.0	0
20	27.460	34.680	27.455	22.332	30.584	38.485	550.274	0.110		1540.1	19
40	26.932	34.769	26.922	22.571	30.834	38.746	528.408	0.218	6.460	1539.3	39
60	26.406	34.963	26.393	22.884	31.159	39.080	499.368	0.321	6.910	1538.7	59
80	25.824	35.101	25.806	23.172	31.460	39.394	472.750	0.418	6.360	1537.8	79
100	25.327	35.181	25.305	23.387	31.686	39.631	453.125	0.511	6.450	1537.1	99
150	22.661	35.223	22.630	24.210	32.580	40.592	376.421	0.719	6.380	1531.3	149
200	20.442	35.085	20.404	24.721	33.157	41.231	329.312	0.896	6.100	1526.1	199
250	17.832	34.851	17.789	25.210	33.732	41.886	283.766	1.048	4.720	1519.3	249
300	16.435	34.741	16.386	25.460	34.031	42.230	261.112	1.184	3.730	1515.8	299
350	15.003	34.622	14.950	25.692	34.314	42.562	239.964	1.309	4.230	1512.0	349
400	12.866	34.428	12.811	25.988	34.693	43.018	211.913	1.422	4.490	1505.7	398
450	10.817	34.271	10.761	26.251	35.040	43.444	186.574	1.522	3.960	1499.3	448
500	9.382	34.196	9.326	26.436	35.287	43.749	168.719	1.610	3.560	1494.8	498
500	7.004	34.171	6.947	26.773	35.732	44.294	135.929	1.761	3.450	1487.5	597
700	5.897	34.257	5.836	26.986	35.997	44.608	115.679	1.884	2.640	1484.9	696
800	5.081	34.353	5.015	27.160	36.210	44.858	99.148	1.990	2.140	1483.4	795
900	4.558	34.441	4.487	27.290	36.365	45.036	87.076	2.083	1.940	1483.0	895
1004	4.128	34.489	4.051	27.374	36.470	45.162	79.272	2.170		1483.0	998

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
5	27.409	34.483	4.69	103.0	1.8	0.07	0.1	0.00	27.407	22.200	30.455	38.359	5
204	19.942	35.044	4.35	84.1	3.4	0.28	2.1	0.01	19.876	24.829	33.282	41.372	205
405	12.448	34.375	4.64	77.0	14.7	0.94	12.2	0.00	12.394	26.029	34.751	43.092	407
453	10.913	34.270	4.25	68.2	21.1	1.25	16.8	0.00	10.857	26.233	35.018	43.419	455
504	9.204	34.175	3.40	52.5	35.8	1.77	24.2	0.00	9.148	26.449	35.308	43.777	507
554	7.737	34.125	3.13	46.8	44.5	1.99	27.6	0.00	7.681	26.634	35.559	44.091	557
603	6.921	34.181D	2.07	30.4	57.9	2.41	33.5	0.00	6.864	26.792	35.755	44.321	606
642	6.297	34.228D	1.60	23.1	69.4	2.64	37.1	0.00	6.239	26.912	35.904	44.497	646
701	5.827	34.263D	1.29	18.4	77.4	2.77	38.9	0.00	5.766	27.000	36.014	44.628	705
750	5.284	34.309	1.20	16.9	86.6	2.87	40.6	0.00	5.221	27.102	36.142	44.781	754
828	4.947	34.374	1.42	19.9	93.9	2.92	41.0	0.00	4.881	27.193	36.249	44.902	833
994	4.144	34.474	1.65	22.7	109.5	2.86	41.0	0.00	4.067	27.361	36.457	45.148	1001

KOROLEV Sta. 32

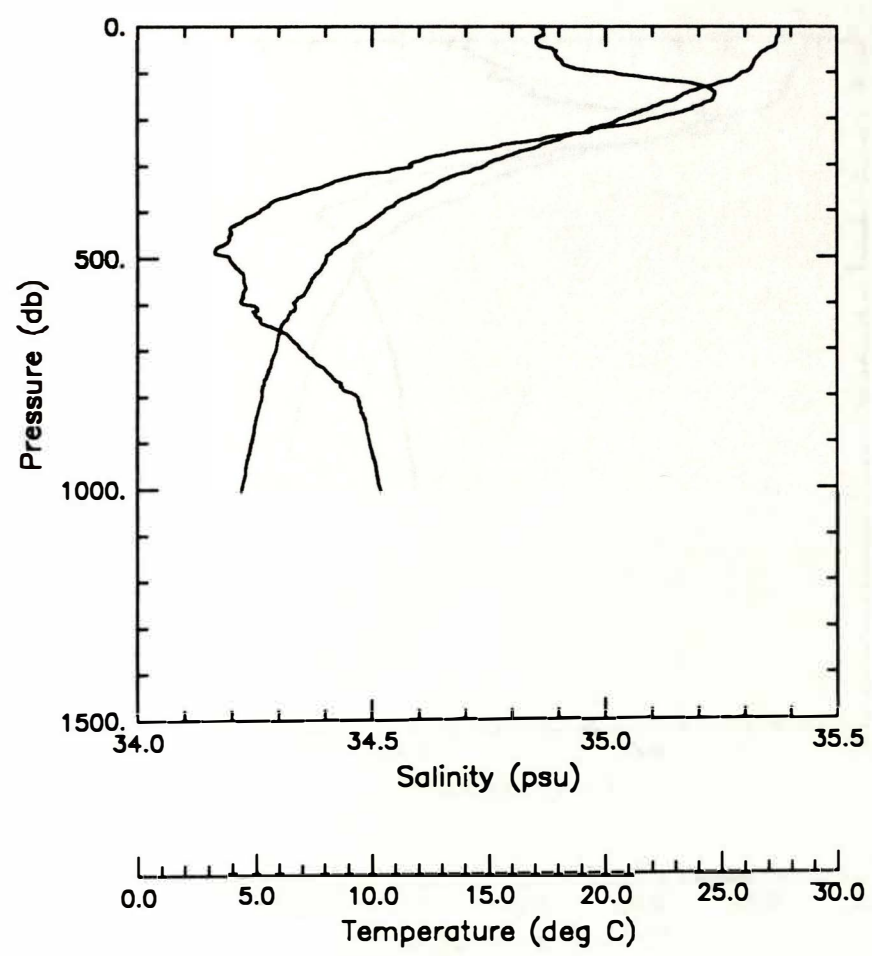
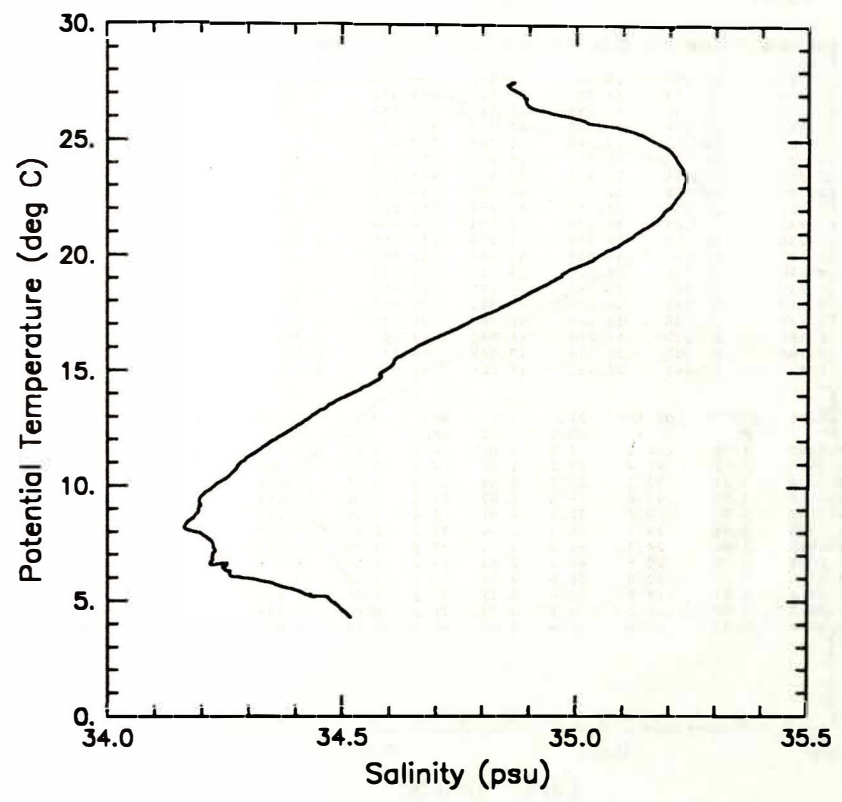


AKADEMIK KOROLEV SAGA II STATION 33
 LATITUDE LONGITUDE HO/DY/YR START TIME BOTTOM
 16 59.4N 159 59.5E 5/24/87 GHT M
 624 0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.473	34.867	7.473	27.247	36.171	44.701	81.350	0.000		1489.3	0
20	27.434	34.861	27.430	22.477	30.728	38.627	536.413	0.107		1540.2	19
40	27.262	34.858	27.253	22.532	30.787	38.690	532.115	0.214	4.670	1540.2	39
60	26.652	34.893	26.638	22.754	31.023	38.940	511.807	0.319	4.940	1539.2	59
80	26.368	34.909	26.350	22.857	31.133	39.056	502.882	0.420	4.970	1538.9	79
100	25.903	35.005	25.881	23.076	31.363	39.296	482.828	0.519	6.920	1538.2	99
150	23.238	35.233	23.207	24.052	32.406	40.403	391.591	0.737	6.890	1532.8	149
200	20.656	35.102	20.618	24.676	33.106	41.174	333.655	0.918	5.980	1526.7	199
250	17.655	34.824	17.613	25.233	33.761	41.920	281.536	1.072	5.750	1518.7	249
300	14.827	34.580	14.782	25.697	34.326	42.580	237.871	1.202	5.260	1510.6	299
350	12.362	34.381	12.316	26.048	34.773	43.117	204.495	1.311	4.290	1503.1	349
400	10.479	34.257	10.431	26.298	35.101	43.518	180.645	1.407	3.510	1497.2	398
450	9.163	34.196	9.113	26.471	35.331	43.802	164.229	1.493	3.360	1493.2	448
500	8.045	34.190	7.994	26.639	35.549	44.066	148.179	1.572	3.100	1489.9	498
600	6.674	34.230	6.618	26.864	35.837	44.414	126.928	1.709	2.750	1486.3	597
700	5.856	34.348	5.795	27.064	36.075	44.687	108.360	1.826	2.240	1484.8	696
800	5.267	34.464	5.200	27.227	36.266	44.903	93.276	1.926	2.000	1484.3	795
900	4.803	34.494	4.730	27.305	36.367	45.026	86.224	2.016	1.570	1484.1	894
1004	4.386	34.517	4.307	27.370	36.453	45.131	80.316	2.103		1484.1	998

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
	4	27.454	34.858						27.453	22.468	30.718	38.616	4
	253	17.553	34.820						17.518	25.253	33.784	41.946	254
	379	11.062	34.288						11.011	26.219	34.998	43.392	381
	427	9.642	34.206						9.590	26.401	35.240	43.692	429
	502	8.029	34.195						7.977	26.645	35.556	44.074	505
	527	7.566	34.222						7.511	26.734	35.666	44.204	530
	575	6.814	34.222						6.757	26.839	35.806	44.377	578
	626	6.315	34.263						6.257	26.938	35.928	44.520	630
	661	5.993	34.318						5.931	27.023	36.028	44.634	665
	724	5.675	34.378						5.610	27.110	36.130	44.749	728
	782	5.253	34.455						5.183	27.222	36.262	44.900	787
	997	4.383	34.519						4.304	27.372	36.454	45.133	1004

KOROLEV Sta. 33

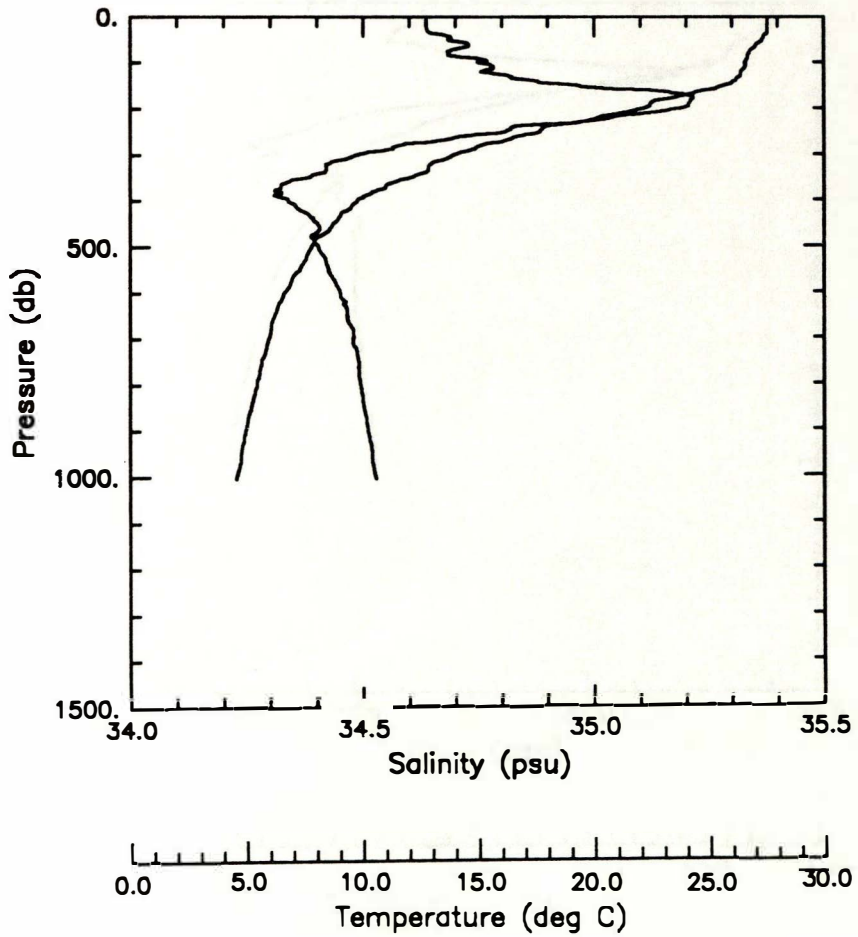
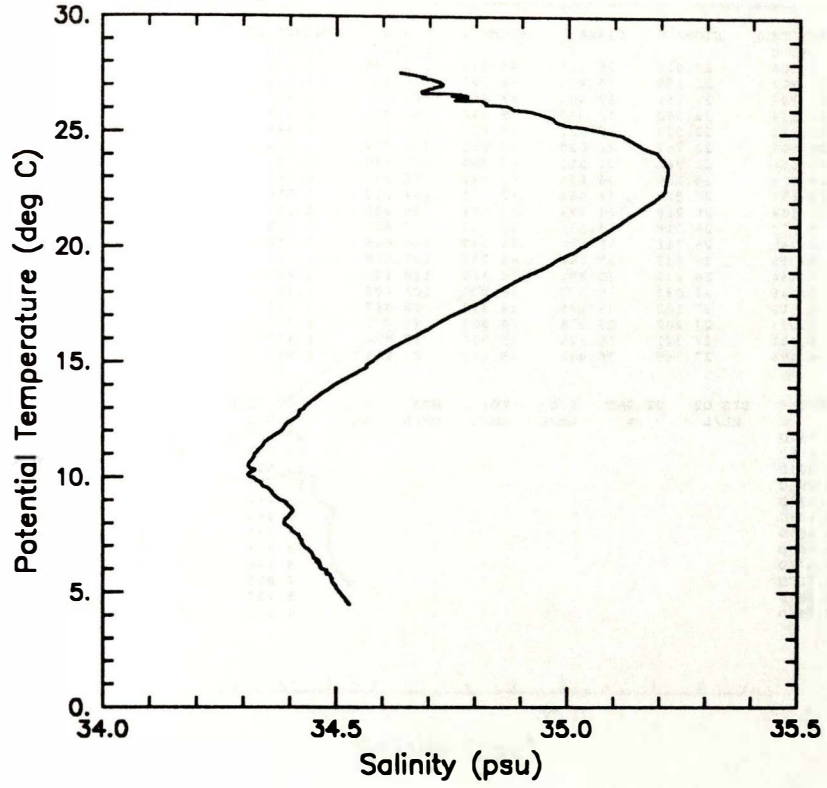


AKADEMIK KOROLEV SAGA II STATION 34
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 CMT M
 14 33.0N 160 0.0E 5/24/87 1830 5504

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.545	34.638	7.545	27.057	35.981	44.511	99.382	0.000		1480.3	0
20	27.558	34.637	27.554	22.269	30.519	38.417	556.361	0.111		1540.3	19
40	27.441	34.671	27.432	22.334	30.586	38.487	551.080	0.222	4.000	1540.4	39
60	27.109	34.720	27.096	22.479	30.739	38.647	538.170	0.331	4.420	1540.0	59
80	26.744	34.689	26.726	22.573	30.842	38.759	530.082	0.438	3.940	1539.5	79
100	26.606	34.763	26.584	22.673	30.945	38.865	521.378	0.543	3.640	1539.6	99
150	25.616	34.962	25.583	23.136	31.431	39.372	479.324	0.798	8.870	1538.3	149
200	22.029	35.178	21.990	24.358	32.747	40.776	364.332	1.002	7.300	1530.5	199
250	17.563	34.798	17.521	25.236	33.767	41.929	281.247	1.162	6.520	1518.4	249
300	13.976	34.491	13.933	25.808	34.470	42.754	226.786	1.288	5.240	1507.8	299
350	11.976	34.373	11.930	26.116	34.856	43.215	197.788	1.394	4.920	1501.8	349
400	9.753	34.339	9.707	26.485	35.318	43.762	162.368	1.483	4.400	1494.7	398
450	8.724	34.401	8.676	26.701	35.577	44.063	142.155	1.559	3.270	1491.8	448
500	7.787	34.403	7.737	26.844	35.763	44.288	128.601	1.627	2.690	1489.1	498
600	6.629	34.450	6.573	27.044	36.016	44.591	109.999	1.746	2.490	1486.4	597
700	5.949	34.479	5.888	27.155	36.160	44.766	99.931	1.850	1.620	1485.4	696
800	5.434	34.495	5.366	27.232	36.262	44.891	93.166	1.946	1.570	1485.0	795
900	4.962	34.512	4.888	27.301	36.354	45.006	86.947	2.036	1.530	1484.8	894
1004	4.555	34.529	4.475	27.361	36.435	45.105	81.604	2.124		1484.8	998

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
5	27.543	34.638D	4.64	102.2	1.5	0.10	0.2	0.00	27.542	22.273	30.523	39.422	5
304	13.400	34.459D	3.92	66.4	13.2	1.00	12.6	0.00	13.364	25.901	34.584	42.889	305
355	11.113	34.330D	3.29	53.1	22.8	1.50	19.5	0.00	11.066	26.242	35.018	43.410	357
374	10.540	34.313D	3.00	47.8	26.3	1.67	22.0	0.00	10.488	26.332	35.132	43.546	376
384	10.174	34.316D	2.51	39.7	31.8	1.91	25.4	0.00	10.114	26.399	35.214	43.643	386
403	9.649	34.338D	2.22	34.7	34.3	2.04	27.3	0.00	9.588	26.504	35.342	43.792	405
428	9.018	34.386D	1.61	24.8	41.2	2.31	31.2	0.00	8.954	26.645	35.509	43.984	430
452	8.553	34.408D	1.35	20.6	45.3	2.44	33.2	0.00	8.485	26.736	35.621	44.114	454
478	7.939	34.394D	1.33	20.0	50.9	2.52	34.7	0.00	7.871	26.817	35.730	44.250	480
529	7.526	34.422D	1.27	18.9	55.0	2.59	35.8	0.00	7.453	26.900	35.832	44.369	532
742	5.662	34.492D	1.48	21.1	78.6	2.79	39.5	0.00	5.594	27.202	36.221	44.840	746
991	4.573	34.528D	1.57	21.8	98.4	2.88	41.1	0.00	4.492	27.358	36.431	45.101	998

KOROLEV Sta. 34

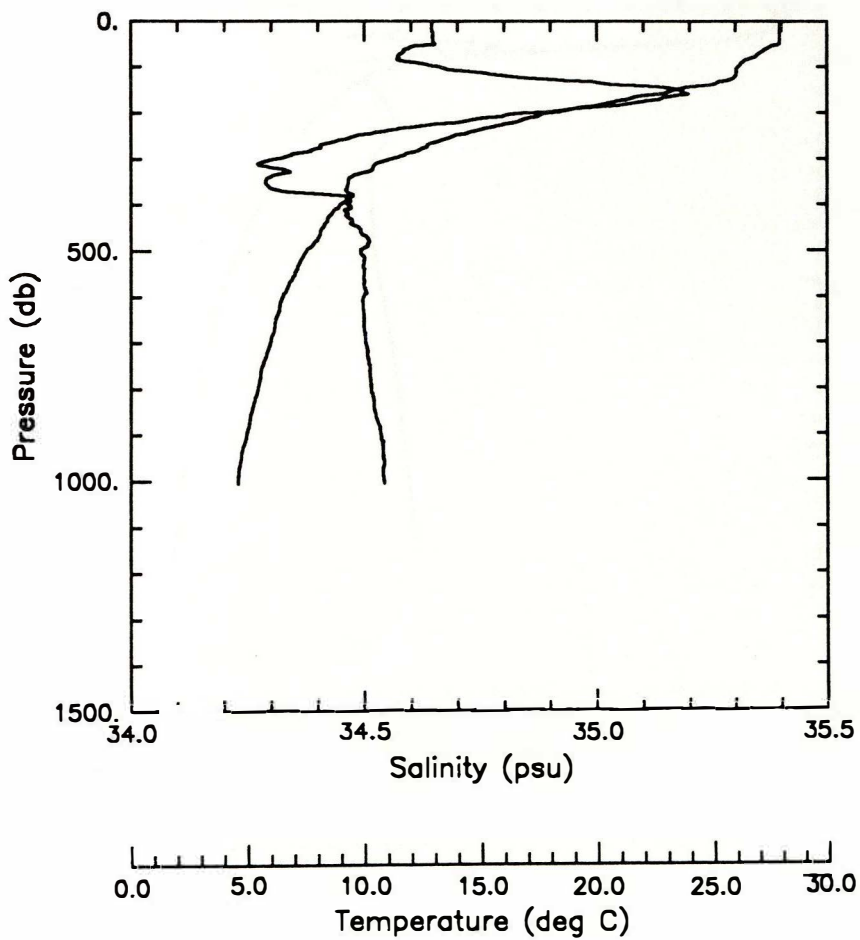
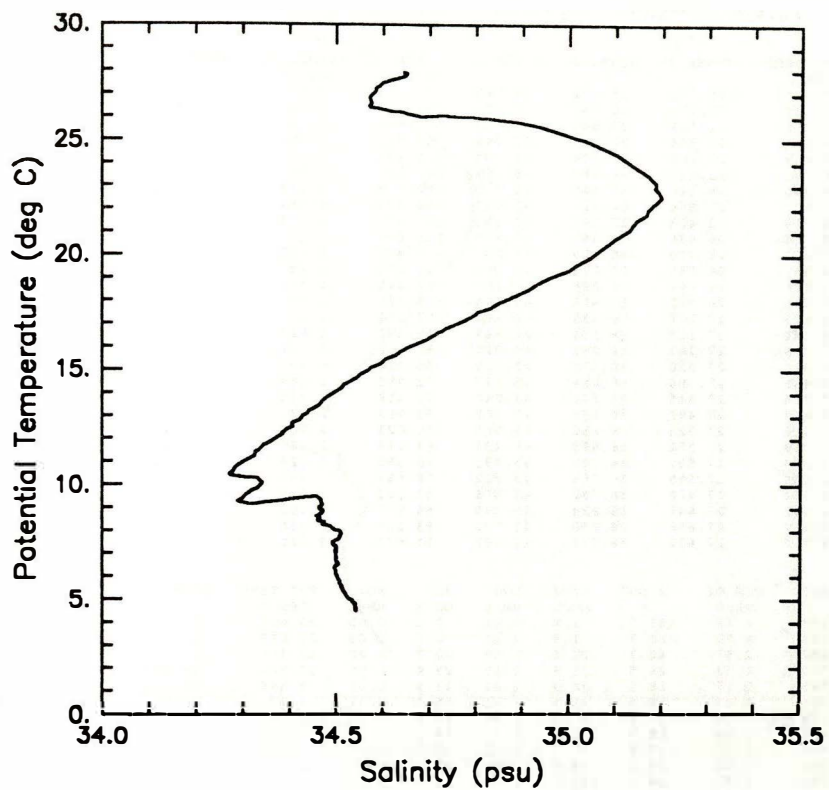


AKADEMIK KOROLEV SAGA II STATION 35
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT
 12 3 1N 159 59.6E 5/25/87 630 M
 0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.906	34.646	7.906	27.010	35.917	44.432	103.844	0.000		1481.7	0
20	27.918	34.645	27.913	22.159	30.400	38.290	566.928	0.113		1541.1	19
40	27.917	34.647	27.908	22.161	30.403	38.294	567.602	0.227	3.220	1541.4	39
60	27.368	34.595	27.354	22.302	30.557	38.460	555.095	0.339	5.240	1540.5	59
80	26.690	34.574	26.672	22.503	30.775	38.694	536.732	0.449	5.940	1539.3	79
100	26.129	34.659	26.107	22.744	31.029	38.961	514.509	0.554	5.810	1538.4	99
150	23.387	35.168	23.356	23.960	32.311	40.304	400.420	0.792	10.310	1533.1	149
200	18.053	34.859	18.018	25.160	33.674	41.821	286.796	0.961	7.430	1519.1	199
250	13.893	34.485	13.857	25.820	34.484	42.771	224.219	1.089	5.900	1506.6	249
300	11.141	34.309	11.104	26.219	34.994	43.384	186.239	1.191	5.030	1498.0	299
350	9.309	34.289	9.270	26.518	35.371	43.833	157.815	1.276	3.140	1492.2	348
400	8.984	34.467	8.940	26.711	35.575	44.049	140.446	1.352	3.540	1492.1	398
450	8.205	34.497	8.158	26.847	35.746	44.252	127.818	1.418	2.750	1490.0	448
500	7.534	34.494	7.484	26.952	35.881	44.416	118.140	1.480	2.630	1488.3	498
600	6.501	34.499	6.446	27.099	36.077	44.657	104.608	1.591	1.910	1485.9	597
700	5.974	34.503	5.912	27.172	36.175	44.779	98.467	1.692	1.760	1485.5	696
800	5.441	34.515	5.373	27.247	36.276	44.905	91.771	1.787	1.590	1485.1	795
900	4.956	34.536	4.881	27.321	36.374	45.026	85.084	1.875	1.590	1484.8	894
1006	4.576	34.542	4.496	27.369	36.442	45.112	80.869	1.963		1485.0	999

CAST 1	BOTTLE DEPTH M	DATA		DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
		TEMP DEG C	SALINITY											
	5	27.901	34.641D							27.900	22.160	30.401	38.292	5
	148	23.600	35.168D							23.536	23.907	32.253	40.242	148
	274	12.641	34.403D							12.593	26.012	34.725	43.059	275
	315	10.443	34.295D							10.398	26.333	35.137	43.555	316
	326	10.288	34.333D							10.242	26.390	35.200	43.623	327
	345	9.310	34.289D							9.265	26.519	35.371	43.835	346
	385	9.353	34.465D							9.305	26.650	35.498	43.958	387
	398	9.005	34.463D							8.955	26.705	35.568	44.042	400
	436	8.379	34.472D							8.328	26.810	35.701	44.200	438
	481	7.859	34.510D							7.805	26.918	35.832	44.353	483
	727	5.772	34.507D							5.707	27.200	36.213	44.827	731
	993	4.583	34.542D							4.503	27.368	36.441	45.110	1000

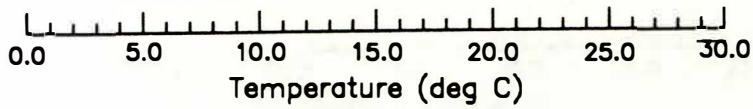
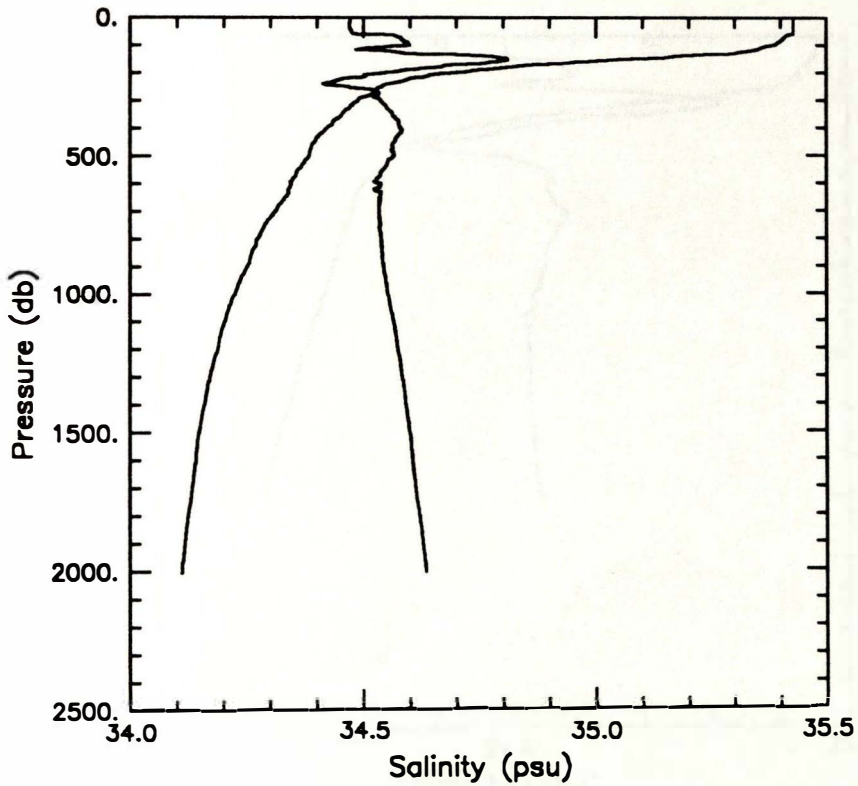
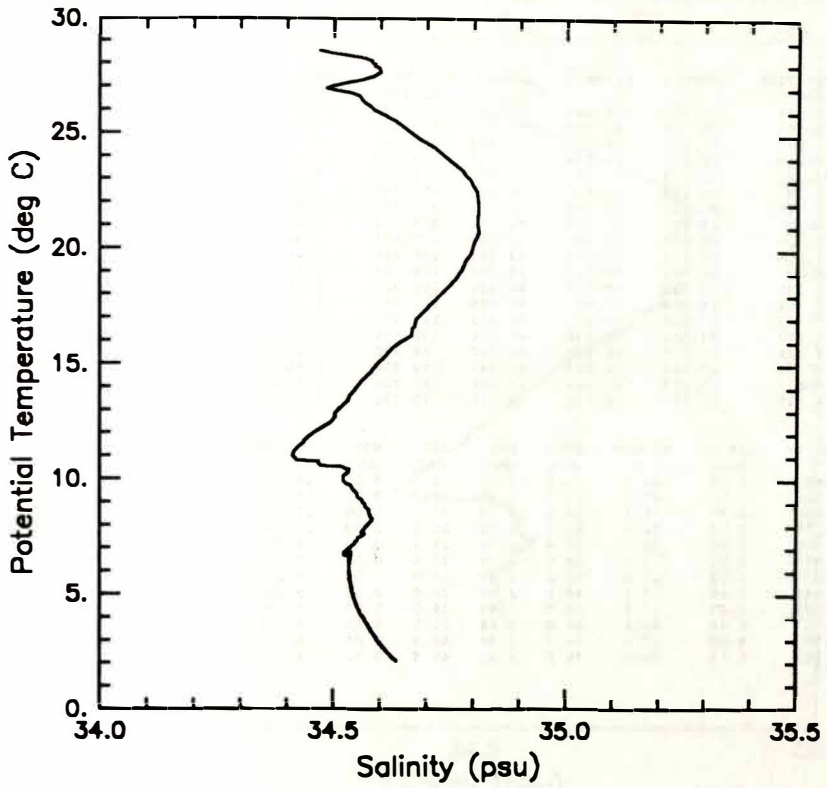
KOROLEV Sta. 35



AKADEMIK KOROLEV SAGA II STATION 36
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 9 37.9N 160 0.8E 5/25/87 GMT M
 2200 0

CTD DATA											
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	8.561	34.468	8.561	26.771	35.652	44.142	126.471	0.000		1483.9	0
20	28.563	34.470	28.559	21.815	30.043	37.922	599.822	0.120		1542.3	20
40	28.566	34.471	28.556	21.816	30.045	37.923	600.654	0.240	2.430	1542.7	40
60	28.447	34.510	28.433	21.886	30.117	37.998	594.891	0.360	4.620	1542.8	60
80	28.067	34.583	28.048	22.068	30.306	38.195	578.484	0.477	4.920	1542.4	80
100	27.615	34.584	27.591	22.217	30.466	38.364	565.133	0.591	5.930	1541.7	99
150	21.774	34.801	21.745	24.140	32.540	40.580	382.913	0.843	13.180	1528.5	149
200	13.901	34.546	13.872	25.864	34.527	42.812	218.583	0.984	7.680	1505.9	199
250	10.756	34.458	10.726	26.403	35.191	43.594	167.405	1.079	4.820	1496.0	249
300	9.750	34.536	9.715	26.638	35.467	43.909	145.803	1.157	3.420	1493.3	299
350	9.069	34.562	9.030	26.770	35.629	44.098	133.877	1.227	2.840	1491.7	348
400	8.422	34.579	8.380	26.886	35.773	44.269	123.430	1.291	2.640	1490.1	398
450	7.894	34.567	7.848	26.956	35.868	44.386	117.241	1.351	1.770	1488.9	448
500	7.642	34.565	7.593	26.992	35.915	44.444	114.490	1.409	1.550	1488.8	497
600	6.870	34.533	6.813	27.077	36.036	44.600	107.256	1.519	1.520	1487.4	597
700	6.214	34.534	6.151	27.165	36.156	44.749	99.481	1.623	1.940	1486.5	696
800	5.444	34.537	5.376	27.264	36.293	44.921	90.162	1.718	1.590	1485.1	795
900	5.011	34.542	4.937	27.320	36.370	45.019	85.331	1.806	1.660	1485.0	894
1000	4.484	34.551	4.405	27.386	36.464	45.137	78.992	1.888	1.640	1484.5	993
1100	4.039	34.565	3.954	27.445	36.545	45.240	73.418	1.963	1.390	1484.3	1092
1200	3.739	34.574	3.648	27.483	36.599	45.308	69.917	2.035	1.280	1484.7	1191
1300	3.409	34.583	3.314	27.523	36.656	45.382	66.023	2.102	1.210	1485.0	1290
1400	3.169	34.591	3.068	27.552	36.698	45.437	63.234	2.167	1.170	1485.7	1389
1500	2.930	34.599	2.823	27.581	36.740	45.491	60.390	2.229	1.120	1486.3	1488
1600	2.800	34.605	2.686	27.598	36.764	45.522	58.993	2.288	0.810	1487.5	1587
1700	2.644	34.612	2.524	27.618	36.792	45.558	57.202	2.346	0.900	1488.5	1685
1800	2.469	34.621	2.343	27.640	36.824	45.599	54.970	2.402	0.940	1489.4	1784
1900	2.330	34.628	2.197	27.658	36.850	45.632	53.215	2.456	0.830	1490.5	1883
2004	2.208	34.635	2.068	27.674	36.873	45.662	51.673	2.511		1491.7	1985

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB
5	28.602	34.453	4.63	103.7	1.8	0.11	0.1	0.00	28.601	21.788	30.016	37.893	5	
106	27.093	34.525	4.71	102.9	1.8	0.11	0.1	0.00	27.059	22.343	30.606	38.517	106	
204	12.433	34.487	2.57	42.7	21.5	1.59	20.7	0.00	12.396	26.115	34.835	43.175	205	
254	10.627	34.510	1.53	24.5	31.5	2.15	29.4	0.00	10.589	25.468	35.251	42.568	255	
304	9.683	34.545	1.17	18.3	38.9	2.42	33.9	0.00	9.646	26.657	35.489	43.933	305	
354	8.991	34.561	1.07	16.5	41.9	2.51	35.3	0.00	8.953	26.782	35.644	44.116	356	
405	8.301	34.576	1.17	17.8	45.3	2.56	36.6	0.00	8.261	26.902	35.794	44.295	407	
502	7.441	34.548	1.24	18.5	52.6	2.67	38.1	0.00	7.402	27.006	35.938	44.476	505	
602	6.884	34.538	1.21	17.8	59.5	2.77	39.3	0.00	6.843	27.077	36.035	44.597	606	
799	5.393	34.536	1.42	20.1	78.9	2.91	41.5	0.00	5.353	27.266	36.296	44.925	804	
1479	2.961	34.584	1.97	26.3	116.0	2.70	38.7	0.01	2.913	27.561	36.715	45.461	1492	
1981	2.215	34.631	2.46	32.3	147.4	2.78	40.4	0.00	2.153	27.664	36.859	45.642	2001	

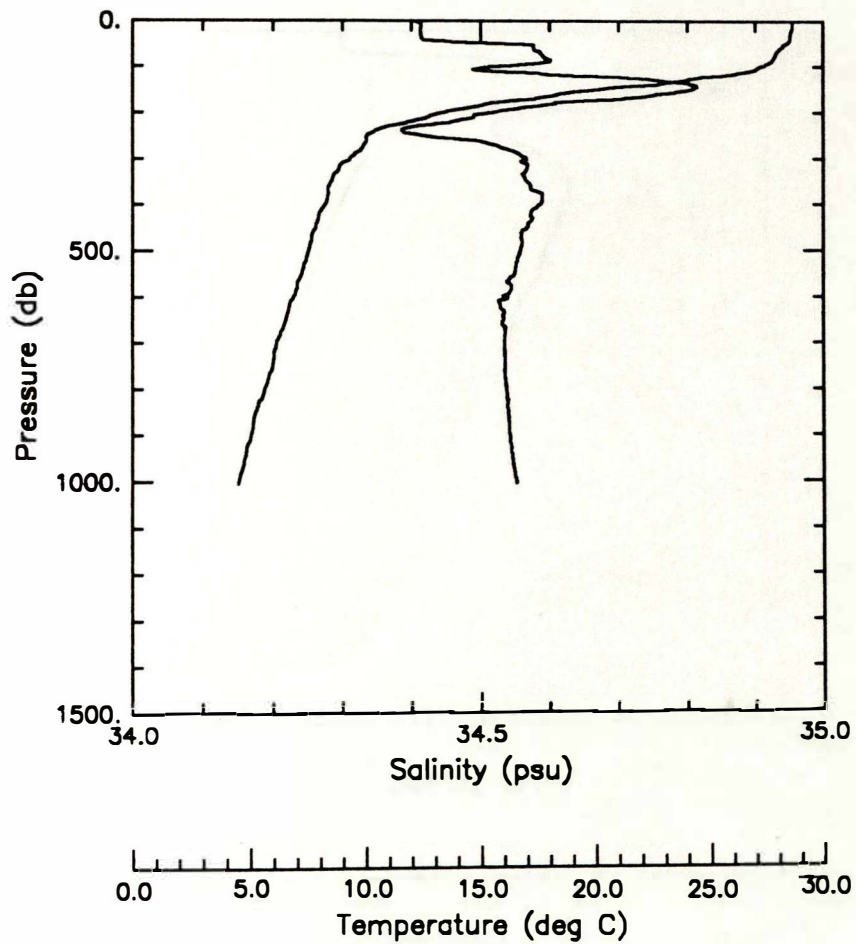
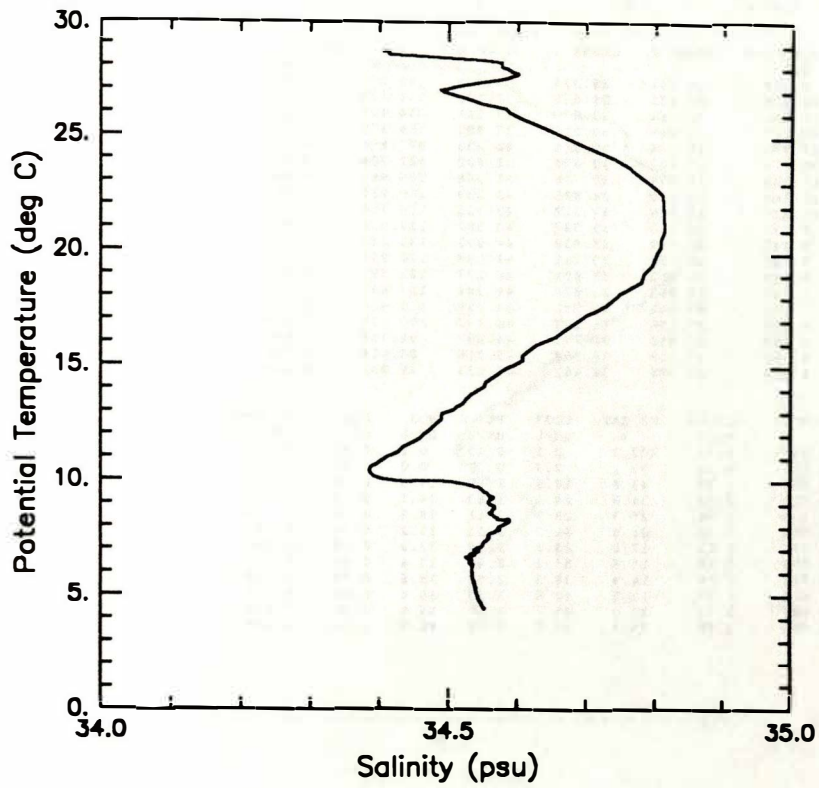


AKADEMIK KOROLEV SAGA II STATION 37
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 9 40.5N 159 48 5E 5/25/87 GMT 518 M 0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	8.639	34.400	8.639	26.705	35.594	44.071	132.732	0.000		1484.1	0
20	28.502	34.413	28.597	21.760	29.988	37.866	605.132	0.121		1542.3	20
40	28.515	34.428	28.505	21.801	30.031	37.910	602.147	0.242	4.680	1542.5	40
60	28.120	34.577	28.106	22.045	30.282	38.169	579.745	0.360	5.110	1542.1	60
80	27.839	34.593	27.821	22.149	30.393	38.286	570.654	0.475	4.710	1541.9	80
100	27.220	34.524	27.197	22.299	30.558	38.466	557.235	0.588	8.060	1540.8	99
150	19.959	34.799	19.932	24.627	33.082	41.172	336.087	0.818	11.820	1523.6	149
200	13.305	34.513	13.277	25.961	34.646	42.954	209.162	0.950	7.190	1503.9	199
250	10.088	34.420	10.059	26.489	35.306	43.735	158.896	1.041	4.690	1493.6	249
300	9.295	34.552	9.262	26.733	35.582	44.041	136.486	1.115	3.720	1491.7	299
350	8.497	34.566	8.460	26.864	35.747	44.240	124.617	1.180	2.350	1489.6	348
400	8.222	34.585	8.181	26.921	35.817	44.321	119.986	1.241	1.950	1489.4	398
450	7.806	34.565	7.761	26.968	35.883	44.405	116.043	1.299	1.620	1488.6	448
500	7.506	34.557	7.457	27.006	35.935	44.470	113.079	1.357	1.510	1488.3	497
600	6.859	34.535	6.802	27.080	36.040	44.604	106.936	1.467	1.750	1487.4	597
700	6.137	34.534	6.074	27.175	36.170	44.767	98.380	1.570	1.680	1486.2	696
800	5.625	34.537	5.555	27.243	36.262	44.882	92.558	1.666	1.820	1485.8	795
900	5.052	34.542	4.977	27.315	36.364	45.010	85.826	1.754	1.580	1485.2	894
1004	4.506	34.552	4.426	27.385	36.461	45.133	79.252	1.840		1484.7	997

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
6	28.639	34.417	4.58	102.6	1.9	0.11	0.1	0.00	28.638	21.749	29.976	37.853	6
205	13.050	34.511	2.71	45.6	19.5	1.48	19.0	0.00	13.035	26.008	34.703	43.019	206
229	11.212	34.434	2.36	38.2	26.1	1.79	23.7	0.00	11.187	26.301	35.071	43.456	230
255	10.169	34.390	2.08	32.9	31.3	2.02	26.8	0.00	10.139	26.452	35.266	43.692	256
280	9.928	34.509	1.35	21.3	35.4	2.29	31.3	0.00	9.893	26.587	35.409	43.844	281
302	9.575	34.555	1.11	17.3	38.6	2.40	33.6	0.00	9.535	26.683	35.520	43.968	303
329	8.904	34.571	1.12	17.2	42.1	2.49	34.9	0.00	8.860	26.805	35.671	44.147	331
380	8.354	34.585	1.14	17.3	45.1	2.57	36.5	0.00	8.301	26.903	35.793	44.292	382
504	7.441	34.557	1.20	17.9	53.7	2.69	38.0	0.00	7.381	27.017	35.949	44.488	507
601	6.714	34.533	1.48	21.6	61.2	2.68	37.9	0.00	6.638	27.101	36.068	44.640	605
726	5.982	34.537	1.22	17.5	71.2	2.88	40.9	0.00	5.842	27.207	36.213	44.820	731
993	4.512	34.553	1.61	22.3	96.9	2.91	41.5	0.00	4.338	27.395	36.475	45.152	1000

KOROLEV Sta. 37



AKADEMIK KOROLEV SAGA II STATION 38
 LATITUDE LONGITUDE MO/DY/YR START TIME GMT BOTTOM M
 7 13.0N 160 0.0E 5/26/87 1900 0

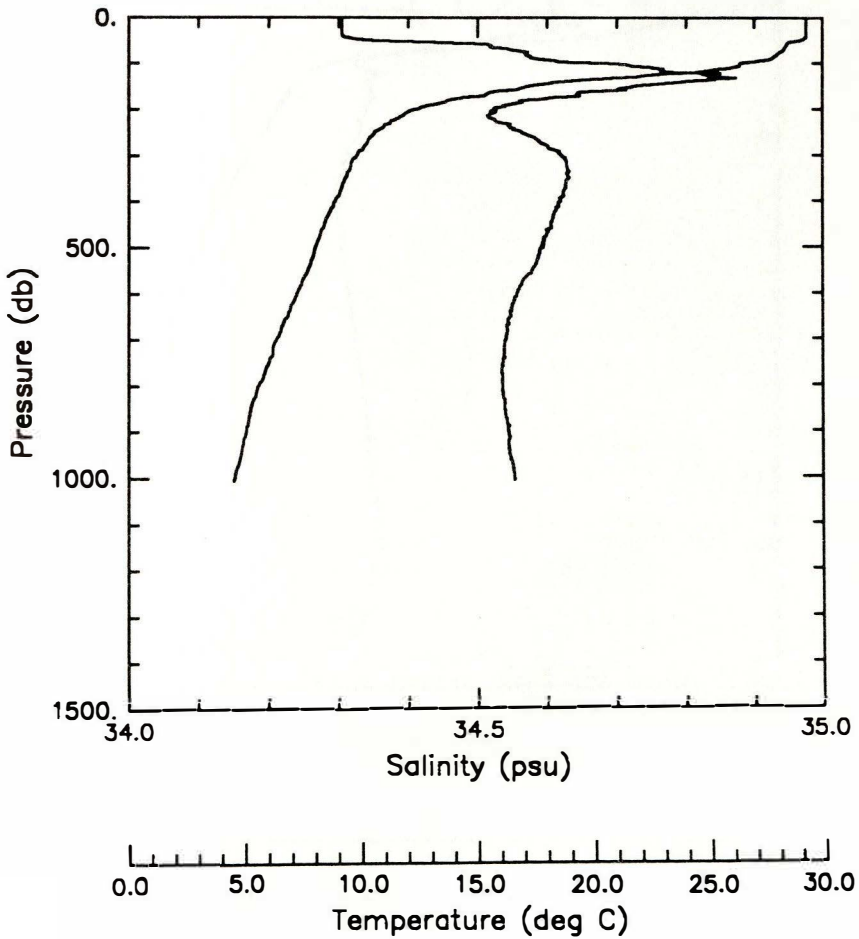
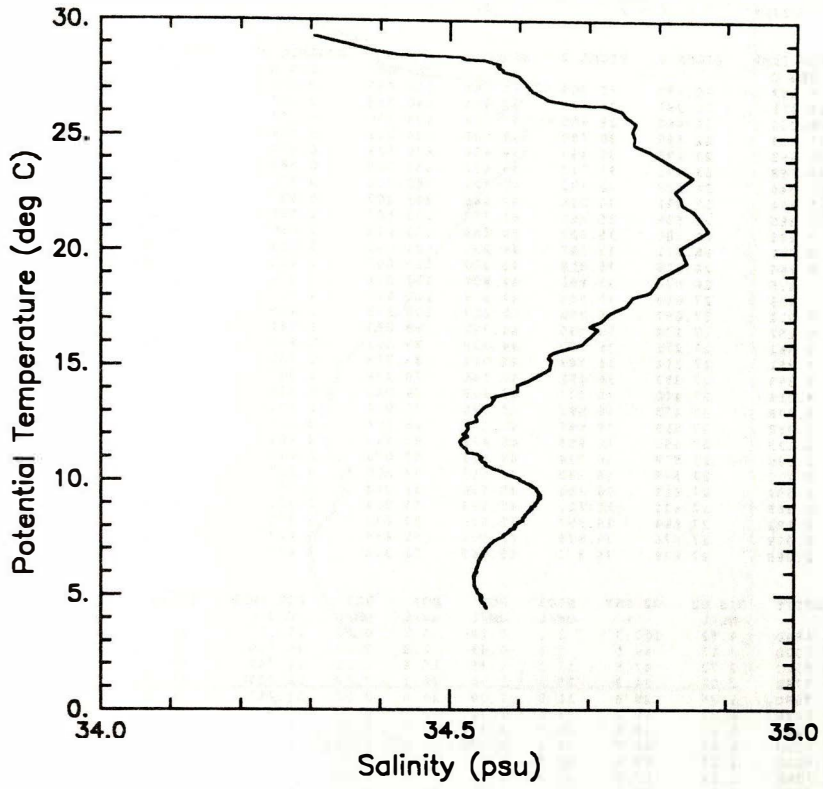
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	9.269	34.305	9.269	26.531	35.383	43.846	149.279	0.000		1486.3	0
20	29.283	34.305	29.278	21.451	29.665	37.530	634.672	0.127		1543.7	20
40	29.260	34.309	29.251	21.464	29.678	37.543	634.423	0.254	5.570	1544.0	40
60	28.424	34.499	28.410	21.886	30.117	37.998	594.978	0.377	6.870	1542.7	60
80	28.016	34.570	27.998	22.074	30.314	38.204	577.858	0.494	7.510	1542.2	80
100	26.601	34.673	26.579	22.607	30.880	38.800	527.704	0.606	10.720	1539.5	100
150	17.251	34.730	17.226	25.254	33.796	41.968	275.886	0.808	10.570	1515.7	149
200	12.294	34.526	12.268	26.170	34.895	43.239	188.916	0.921	5.910	1500.6	199
250	10.567	34.563	10.537	26.518	35.312	43.721	156.450	1.007	4.030	1495.4	249
300	9.771	34.620	9.737	26.700	35.527	43.967	139.934	1.081	3.130	1493.5	299
350	9.280	34.629	9.241	26.789	35.638	44.097	132.258	1.149	2.090	1492.5	348
400	8.833	34.618	8.790	26.852	35.721	44.199	126.974	1.214	2.140	1491.7	398
450	8.393	34.606	8.345	26.912	35.801	44.297	121.897	1.276	1.930	1490.9	448
500	7.991	34.593	7.940	26.963	35.870	44.384	117.637	1.336	1.640	1490.2	497
600	7.215	34.557	7.157	27.048	35.991	44.539	110.418	1.450	1.900	1488.8	597
700	6.324	34.541	6.260	27.156	36.142	44.730	100.479	1.556	1.960	1486.9	696
800	5.554	34.536	5.485	27.250	36.273	44.897	91.716	1.653	1.980	1485.5	795
900	5.035	34.544	4.960	27.319	36.368	45.016	85.464	1.741	1.480	1485.1	894
1006	4.509	34.553	4.429	27.385	36.461	45.134	79.222	1.828		1484.7	999

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	DEG C				DB	
6	29.273	34.307	4.51	102.0	2.1	0.13	0.1	0.00	29.272	21.455	29.669	37.534	6	
107	26.193	34.716	4.32	93.1	2.3	0.22	0.0	0.10	26.147	22.775	31.059	38.989	107	
186	13.479	34.555	2.58	43.8	18.9	1.50	19.3	0.01	13.447	25.958	34.637	42.938	187	
206	12.011	34.512	2.10	34.6	24.3	1.82	24.1	0.01	11.978	26.215	34.951	43.306	207	
226	11.234	34.533	1.56	25.3	29.9	2.11	28.6	0.00	11.199	26.376	35.144	43.527	227	
245	10.687	34.546	1.36	21.8	31.7	2.21	30.2	0.00	10.650	26.485	35.275	43.679	246	
265	10.299	34.577	1.12	17.8	33.9	2.35	32.2	0.00	10.260	26.577	35.383	43.803	266	
286	10.052	34.598	0.98	15.5	35.3	2.42	33.4	0.00	10.007	26.637	35.453	43.882	287	
355	9.227	34.624	0.96	14.9	38.3	2.52	35.6	0.00	9.170	26.797	35.648	44.111	356	
404	8.789	34.613	0.99	15.2	40.8	2.57	36.4	0.00	8.723	26.859	35.731	44.212	406	
504	7.951	34.588	1.33	20.0	45.7	2.60	36.9	0.00	7.875	26.969	35.879	44.396	507	
994	4.531	34.553	1.82	25.3	95.7	2.88	40.9	0.00	4.451	27.383	36.457	45.129	1001	

KOROLEV Sta. 38



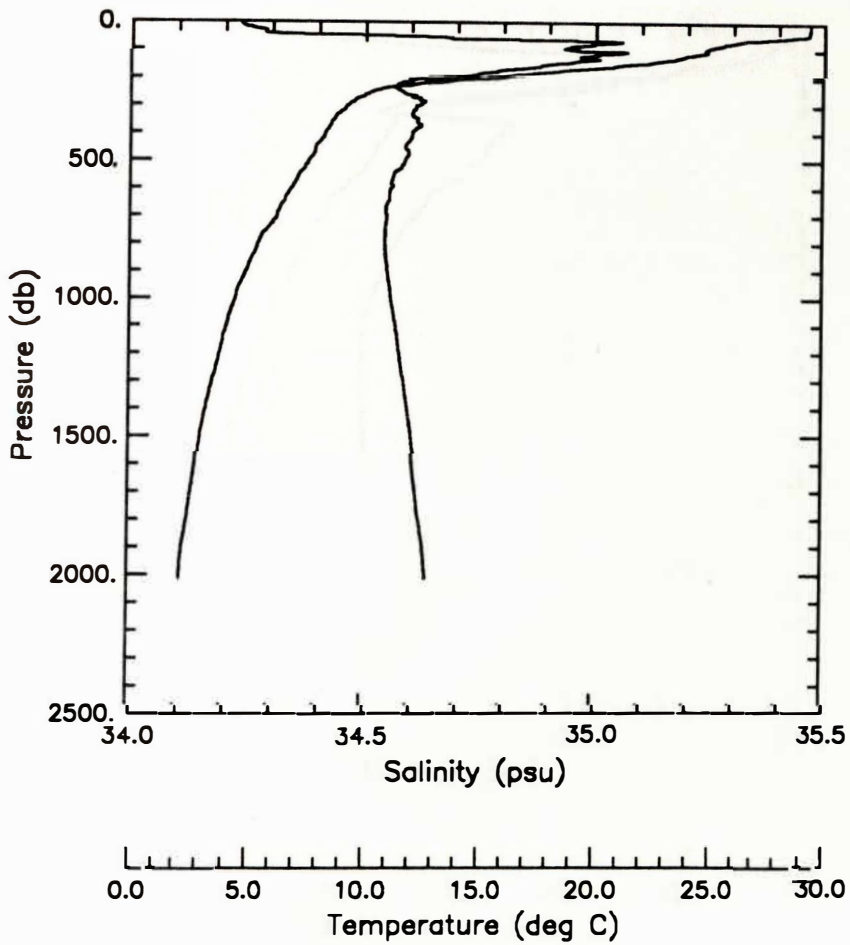
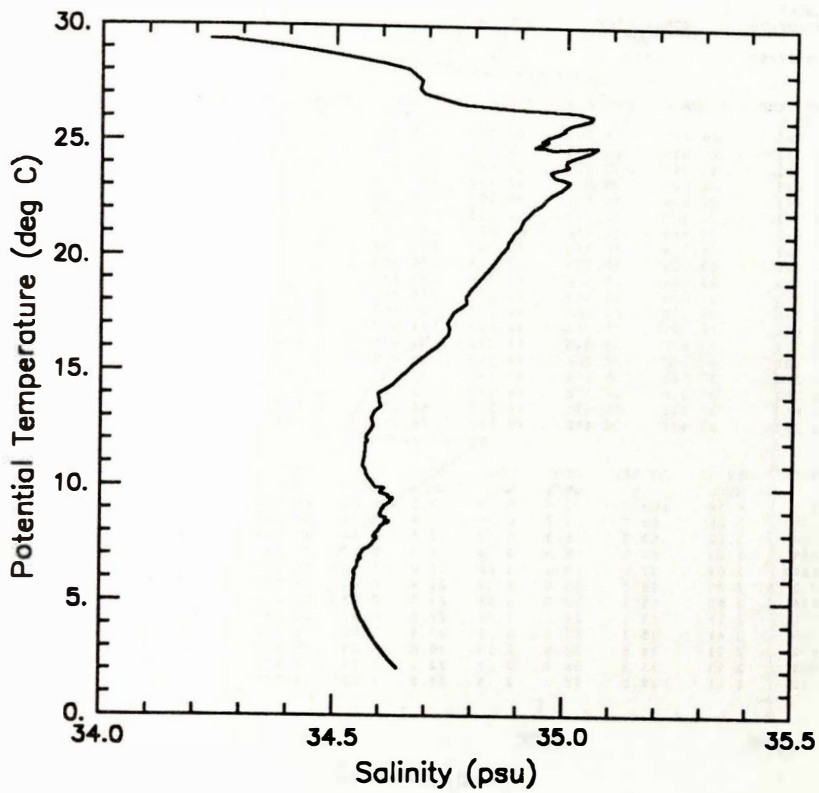
AKADEMIK KOROLEV SAGA II STATION 39
 LATITUDE LONGITUDE MO/DY/YR START TIME GMT BOTTOM M
 4 51 3N 160 0.5E 5/27/87 642 3

CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
0	9.353	34.231	9.353	26.459	35.309	43.769	156.067	0.000		1486.5	0
20	29.356	34.251	29.351	21.387	29.599	37.463	640.868	0.128		1543.8	20
40	29.262	34.312	29.253	21.465	29.680	37.544	634.300	0.256	9.170	1544.0	40
60	27.082	34.764	27.069	22.520	30.780	38.688	534.201	0.374	11.700	1540.0	60
80	25.469	34.986	25.452	23.195	31.493	39.436	470.539	0.473	8.330	1536.8	79
100	24.779	34.979	24.758	23.401	31.717	39.677	451.705	0.565	6.140	1535.5	99
150	21.575	34.910	21.546	24.277	32.682	40.727	369.751	0.773	8.960	1528.1	149
200	15.465	34.681	15.434	25.631	34.236	42.466	241.207	0.925	8.920	1511.1	199
250	10.395	34.576	10.365	26.558	35.360	43.775	152.567	1.020	5.410	1494.8	249
300	9.269	34.617	9.236	26.780	35.629	44.089	132.026	1.090	2.670	1491.6	299
350	8.669	34.610	8.631	26.871	35.747	44.231	124.062	1.154	2.360	1490.2	348
400	8.287	34.603	8.246	26.925	35.818	44.319	119.607	1.215	1.600	1489.6	398
450	7.880	34.587	7.835	26.974	35.886	44.404	115.531	1.274	1.750	1488.9	448
500	7.586	34.587	7.536	27.018	35.943	44.474	112.030	1.331	1.760	1488.6	497
600	6.869	34.558	6.812	27.097	36.056	44.619	105.349	1.439	1.830	1487.4	597
700	6.220	34.546	6.157	27.174	36.165	44.757	98.657	1.541	1.570	1485.5	696
800	5.431	34.544	5.362	27.271	36.300	44.929	89.535	1.635	1.440	1485.0	795
900	4.925	34.548	4.851	27.334	36.389	45.042	83.774	1.722	1.540	1484.7	894
1000	4.462	34.557	4.383	27.393	36.471	45.146	78.324	1.802	1.270	1484.4	993
1100	4.103	34.567	4.018	27.440	36.537	45.229	74.011	1.878	1.260	1484.6	1092
1200	3.799	34.576	3.708	27.478	36.591	45.298	70.514	1.950	1.190	1485.0	1191
1300	3.484	34.586	3.388	27.518	36.647	45.370	66.708	2.019	1.240	1485.3	1290
1400	3.227	34.594	3.125	27.550	36.693	45.428	63.696	2.084	1.100	1485.9	1389
1500	2.994	34.603	2.886	27.579	36.734	45.482	60.872	2.147	0.940	1486.6	1488
1600	2.842	34.609	2.727	27.598	36.762	45.517	59.206	2.207	0.840	1487.6	1587
1700	2.673	34.616	2.552	27.619	36.792	45.556	57.214	2.265	0.960	1488.6	1685
1800	2.512	34.624	2.385	27.639	36.821	45.593	55.234	2.321	1.060	1489.6	1784
1900	2.315	34.634	2.182	27.664	36.857	45.539	52.633	2.375	0.840	1490.4	1883
2000	2.219	34.639	2.079	27.676	36.875	45.663	51.496	2.427	0.680	1491.7	1981
2012	2.209	34.640	2.068	27.678	36.877	45.665	51.368	2.433		1491.9	1993

NISKIN BOTTLE DATA

CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
4	29.328	34.184D	4.52	102.3	2.1	0.16	0.1	0.00	29.327	21.345	29.559	37.423	4	
104	24.529	35.032D	3.17	66.5	5.1	0.69	7.8	0.10	24.506	23.516	31.838	39.804	104	
202	14.777	34.652E	2.72	47.5	1.3	1.15	1.4	0.21	14.749	25.759	34.188	42.643	202	
228	12.330	34.576D	2.07	34.3	25.0	1.80	24.2	0.00	12.303	26.202	34.925	43.267	229	
251	11.315	34.569D	1.76	28.6	31.0	2.08	28.6	0.00	11.287	26.388	35.152	43.531	252	
283	9.939	34.613D	1.29	20.3	34.4	2.32	32.4	0.00	9.911	26.665	35.485	43.918	284	
302	9.479	34.624D	1.27	19.8	36.0	2.37	33.5	0.00	9.449	26.751	35.591	44.042	303	
327	9.101	34.609D	1.47	22.7	38.4	2.37	33.6	0.00	9.070	26.801	35.657	44.124	328	
403	8.412	34.616D	1.29	19.6	41.3	2.53	36.2	0.00	8.375	26.916	35.803	44.298	405	
503	7.724	34.594D	1.19	17.8	46.9	2.69	37.9	0.00	7.683	27.002	35.920	44.445	506	
995	4.500	34.556D	2.04	28.3	91.7	2.80	39.7	0.00	4.461	27.384	36.458	45.129	1002	
1991	2.209	34.640D	2.51	32.9	146.4	2.79	40.1	0.00	2.147	27.672	36.866	45.651	2011	



AKADEMIK KOROLEV SAGA II STATION 40
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 2 28.0N 160 0.0E 5/27/87 GMT 1830 M 1272

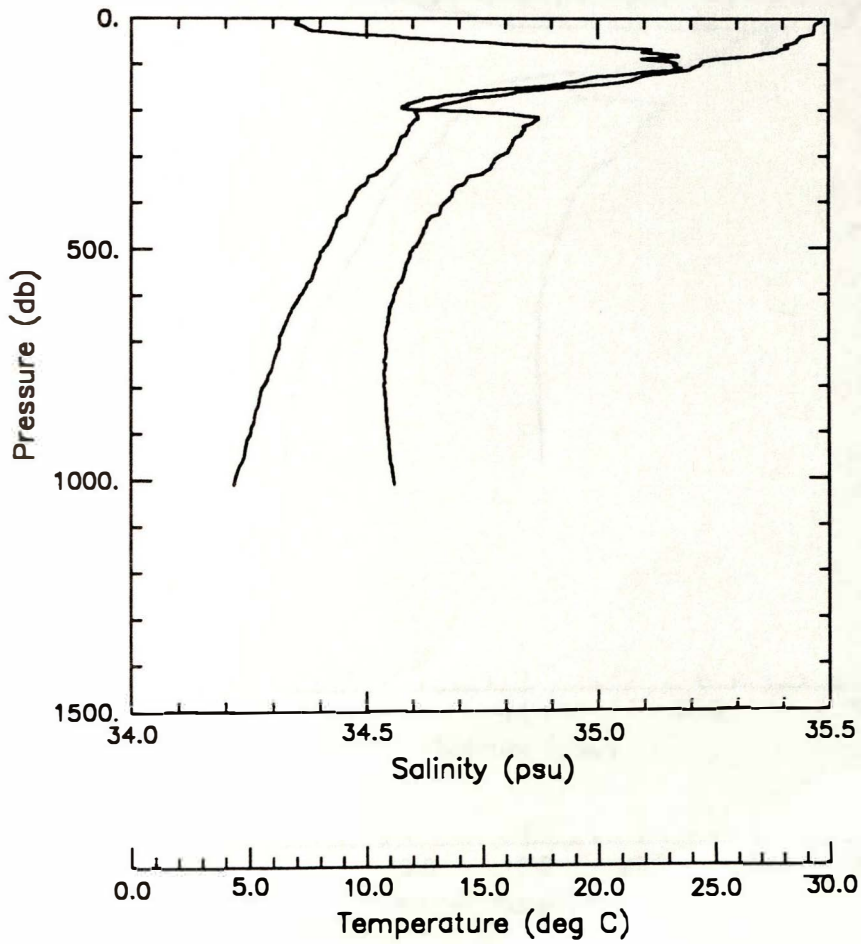
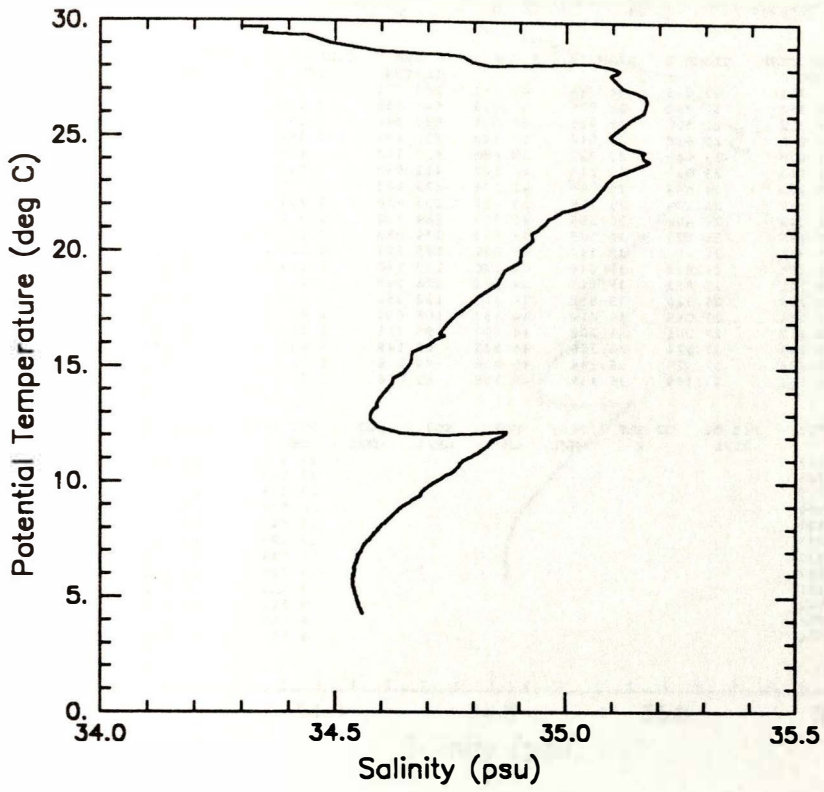
CTD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TGN	DYN M	FREQ CPH	M/S	M
0	9.693	34.299	9.693	26.457	35.291	43.736	156.311	0.000		1487.9	0
20	29.397	34.366	29.392	21.459	29.670	37.531	633.939	0.128		1544.0	20
40	28.853	34.558	28.843	21.787	30.008	37.879	603.468	0.252	8.100	1543.4	40
60	28.199	34.926	28.185	22.281	30.513	38.394	557.176	0.368	9.580	1542.7	60
80	26.711	35.144	26.693	22.926	31.192	39.104	496.288	0.474	10.580	1539.9	80
100	24.364	35.164	24.343	23.665	31.990	39.958	426.463	0.565	9.150	1534.7	99
150	18.689	34.841	18.662	24.996	33.480	41.607	301.579	0.753	10.580	1520.1	149
200	12.348	34.660	12.322	26.264	34.985	43.325	180.558	0.869	6.940	1500.9	199
250	11.723	34.834	11.691	26.519	35.263	43.624	156.959	0.950	2.540	1499.8	249
300	11.085	34.787	11.048	26.601	35.371	43.757	150.135	1.027	2.340	1498.3	299
350	10.054	34.716	10.014	26.729	35.543	43.970	138.581	1.099	2.920	1495.4	348
400	9.291	34.670	9.246	26.820	35.658	44.127	130.402	1.166	2.010	1493.4	398
450	8.672	34.629	8.624	26.887	35.763	44.248	124.527	1.230	2.050	1491.9	448
500	8.156	34.601	8.104	26.945	35.845	44.351	119.485	1.291	2.150	1490.8	497
600	7.179	34.560	7.121	27.055	36.000	44.550	109.678	1.406	2.250	1488.7	597
700	6.278	34.540	6.214	27.162	36.150	44.740	99.877	1.510	1.460	1486.8	696
800	5.571	34.538	5.502	27.250	36.272	44.895	91.765	1.607	1.940	1485.6	795
900	5.023	34.546	4.949	27.321	36.371	45.019	85.191	1.695	1.730	1485.1	894
1010	4.342	34.560	4.263	27.408	36.492	45.173	76.713	1.784		1484.1	1003

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	ML/L	DEG C				DB
5	29.619	34.355	4.54	103.3	2.6	0.19	0.1	0.00	29.618	21.375	29.580	37.437	5	
103	24.409	35.170	3.26	68.3	4.5	0.71	7.4	0.05	24.387	23.657	31.980	39.948	103	
118	23.091	35.089	3.12	63.9	5.3	0.77	8.5	0.02	23.049	23.988	32.349	40.351	118	
138	21.338	34.958	3.23	64.0	6.9	0.74	8.5	0.02	21.294	24.383	32.795	40.846	138	
173	14.147	34.624D	3.08	53.1	19.1	1.29	17.0	0.01	14.110	25.874	34.527	42.804	173	
198	12.067	34.700	2.96	48.9	22.8	1.59	21.6	0.00	12.030	26.351	35.083	43.433	199	
242	11.752	34.834	2.85	46.8	20.0	1.66	23.0	0.00	11.713	26.515	35.258	43.618	243	
322	10.735	34.771	2.19	35.1	24.7	1.96	27.8	0.00	10.695	26.652	35.437	43.837	323	
362	9.789	34.700	2.44	38.3	27.7	2.00	28.4	0.00	9.742	26.762	35.588	44.026	364	
401	9.310	34.672	2.23	34.6	30.6	2.13	30.6	0.00	9.253	26.821	35.668	44.126	403	
553	7.681	34.582	2.63	39.3	38.0	2.23	32.1	0.00	7.577	27.008	35.931	44.461	556	
1000	4.352	34.560	2.11	29.1	95.0	2.78	39.8	0.00	4.179	27.417	36.506	45.190	1007	

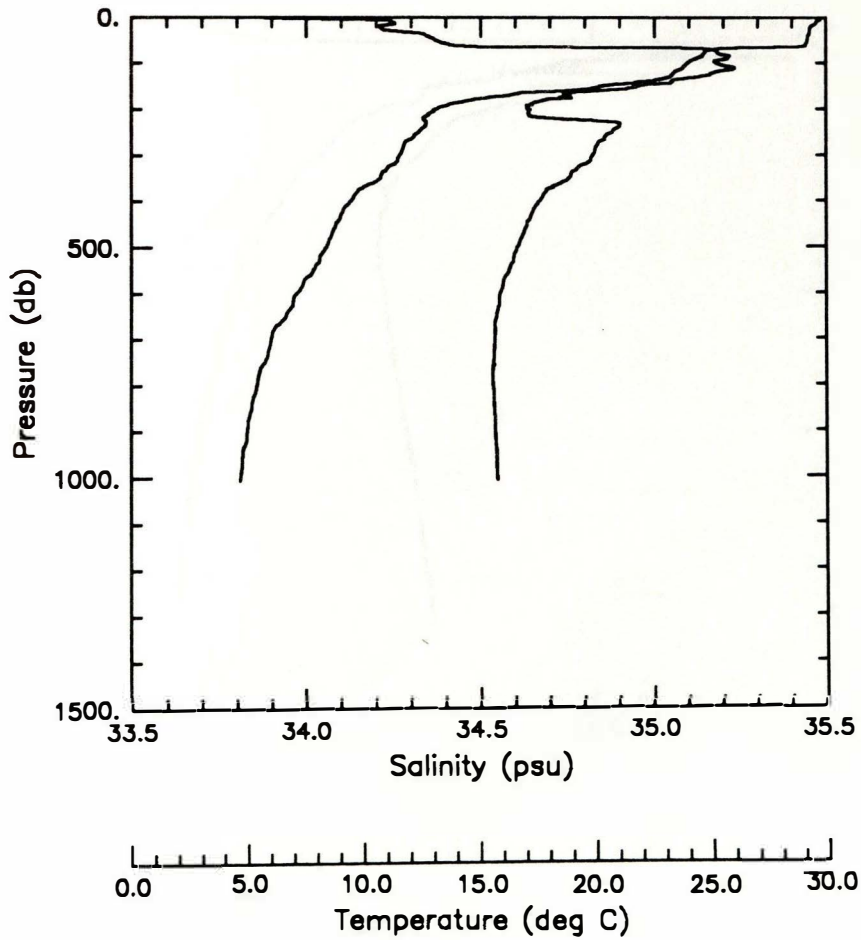
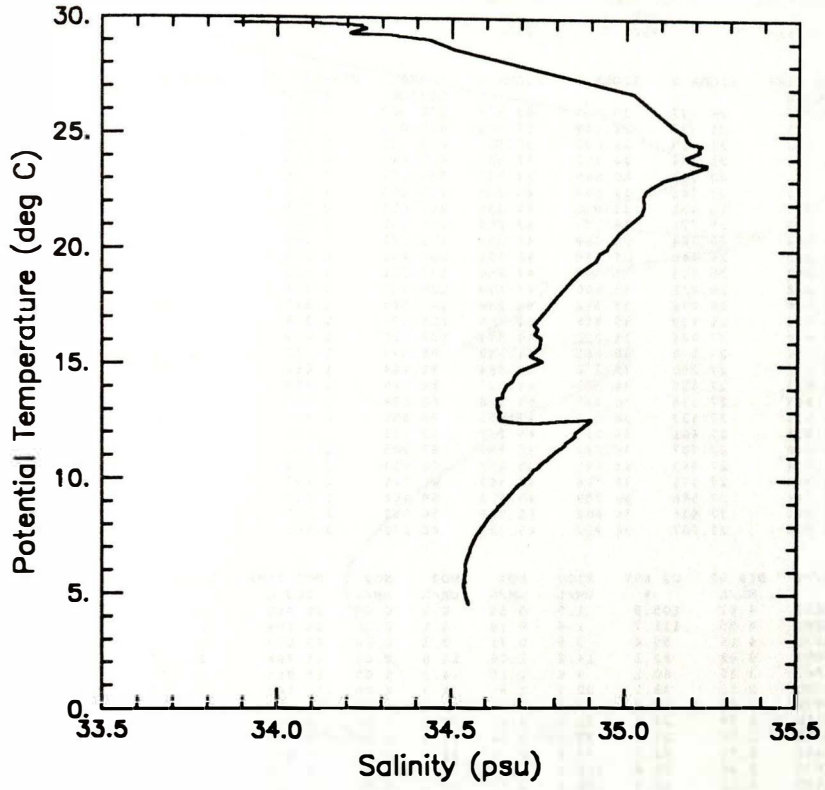
KOROLEV Sta. 40



AKADEMIK KOROLEV GAGA II STATION 41
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 1 22.5N 160 2.3E 5/28/97 GMT 24 M 0

CTD DATA														
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH			
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M			
0	9.714	33.651	9.714	25.946	34.789	43.242	204.771	0.000		1487.1	0			
20	29.362	34.222	29.357	21.363	29.575	37.439	643.198	0.130		1543.8	20			
40	29.222	34.340	29.212	21.500	29.715	37.581	630.940	0.257	7.160	1543.9	40			
60	29.655	34.510	28.641	21.818	30.044	37.920	601.494	0.382	13.200	1543.2	60			
80	24.625	35.195	24.608	23.609	31.927	39.888	430.912	0.481	11.420	1535.0	80			
100	23.944	35.186	23.923	23.807	32.143	40.122	412.860	0.565	5.810	1533.7	99			
150	20.320	34.958	20.292	24.654	33.095	41.174	333.685	0.759	10.710	1524.8	149			
200	13.065	34.636	13.037	26.104	34.798	43.112	195.450	0.892	6.050	1503.3	199			
250	12.282	34.874	12.249	26.444	35.165	43.505	164.358	0.971	3.390	1501.8	249			
300	11.594	34.823	11.465	26.553	35.305	43.675	154.983	1.050	2.250	1499.8	299			
350	10.633	34.753	10.591	26.657	35.447	43.851	145.757	1.126	3.120	1497.5	348			
400	9.400	34.670	9.355	26.803	35.646	44.100	132.160	1.194	2.490	1493.8	398			
450	8.790	34.633	8.741	26.872	35.743	44.222	126.068	1.259	1.920	1492.4	448			
500	8.349	34.607	8.296	26.920	35.811	44.310	122.052	1.321	2.030	1491.5	497			
600	7.092	34.557	7.034	27.065	36.014	44.567	108.654	1.437	2.210	1488.3	597			
700	5.974	34.541	5.912	27.201	36.203	44.807	95.715	1.539	1.550	1485.6	696			
800	5.361	34.537	5.293	27.274	36.306	44.938	89.149	1.631	1.460	1484.8	795			
900	4.932	34.543	4.858	27.329	36.384	45.036	84.246	1.717	1.100	1484.7	894			
1006	4.632	34.550	4.551	27.369	36.439	45.106	81.038	1.805		1485.2	999			

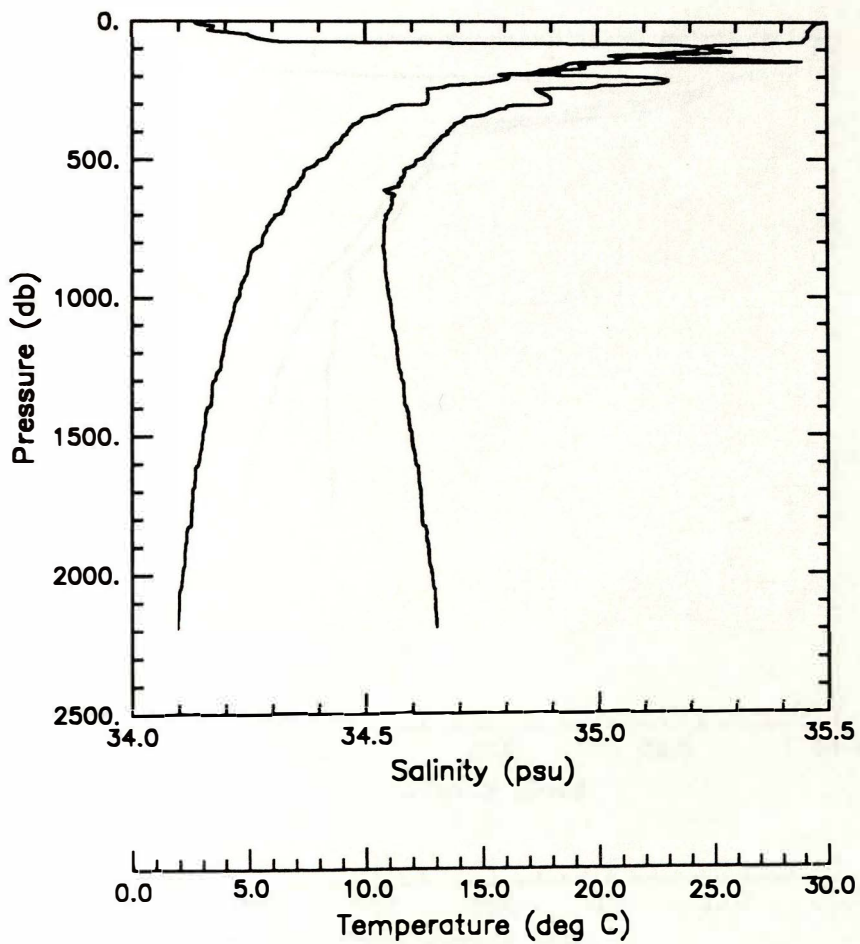
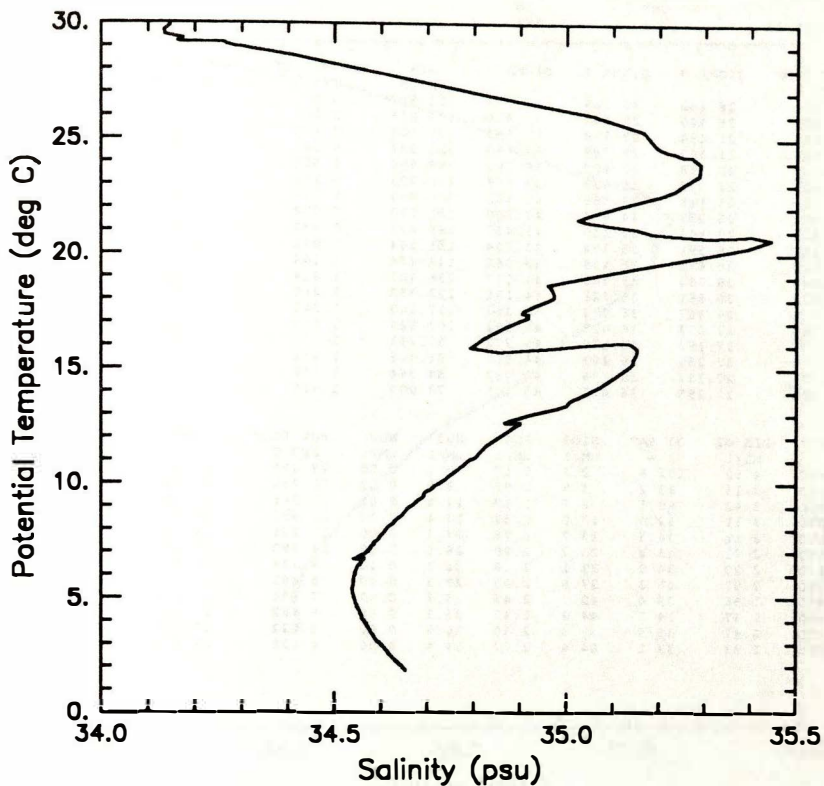
NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
	6	29.680	34.269							29.679	21.290	29.495	37.351	6
	52	29.158	34.188							29.143	21.559	29.775	37.642	52
	103	23.781	35.215							23.756	23.878	32.218	40.200	103
	151	20.115	34.960							20.089	24.709	33.157	41.241	151
	201	12.972	34.627							12.948	26.115	34.812	43.129	202
	252	12.150	34.885							12.324	26.438	35.156	43.493	253
	301	11.575	34.830							11.544	26.544	35.293	43.660	302
	351	10.768	34.767							10.728	26.643	35.427	43.825	353
	401	9.574	34.681							9.533	26.782	35.617	44.064	403
	798	5.343	34.542							5.310	27.276	36.308	44.939	803
	900	4.912	34.551							4.868	27.335	36.388	45.040	906
	1000	4.631	34.554							4.550	27.373	36.442	45.109	1007



AKADEMIK KOROLEV SAGA II STATION 42
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 0 0.1S 159 59.8E 5/28/87 930 2934

CTD DATA												
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M	
0	9.879	34.147	9.879	26.307	35.135	43.575	170.527	0.000		1488.3	0	
20	29.324	34.168	29.319	21.335	29.549	37.414	645.831	0.130		1543.6	20	
40	29.162	34.200	29.152	21.415	29.632	37.501	639.131	0.259	3.730	1543.7	40	
60	29.106	34.265	29.091	21.484	29.703	37.571	633.445	0.386	9.130	1543.9	60	
80	26.950	34.789	26.931	22.582	30.846	39.757	529.156	0.506	14.030	1540.1	80	
100	24.323	35.248	24.302	23.741	32.066	40.035	419.205	0.597	11.210	1534.7	100	
150	19.364	35.124	19.337	25.031	33.500	41.604	297.615	0.775	7.140	1522.3	149	
200	16.079	35.044	16.047	25.771	34.350	42.556	228.151	0.909	7.210	1513.4	199	
250	12.698	34.875	12.654	26.364	35.069	43.393	172.136	1.008	3.770	1503.2	249	
300	12.268	34.872	12.228	26.446	35.168	43.508	165.492	1.093	4.580	1502.5	299	
350	9.989	34.720	9.948	26.743	35.560	43.990	137.171	1.167	3.330	1495.2	348	
400	9.262	34.678	9.218	26.831	35.680	44.139	129.390	1.234	1.980	1493.3	398	
450	8.695	34.647	8.646	26.898	35.772	44.256	123.548	1.297	2.130	1492.0	448	
500	8.150	34.617	8.098	26.959	35.858	44.365	118.194	1.358	2.490	1490.8	497	
600	7.007	34.567	6.949	27.085	36.037	44.594	106.710	1.469	1.950	1488.0	597	
700	6.216	34.545	6.152	27.174	36.165	44.758	98.633	1.572	2.260	1486.5	696	
800	5.580	34.540	5.511	27.250	36.272	44.894	91.764	1.666	1.650	1485.6	795	
900	4.977	34.544	4.903	27.325	36.377	45.027	84.789	1.753	1.060	1484.8	894	
1000	4.580	34.552	4.499	27.376	36.449	45.118	80.174	1.835	1.570	1484.9	993	
1100	4.203	34.559	4.117	27.423	36.515	45.202	75.850	1.913	1.310	1485.0	1092	
1200	3.920	34.569	3.828	27.461	36.567	45.268	72.528	1.986	1.000	1485.5	1191	
1300	3.545	34.580	3.448	27.507	36.633	45.353	67.905	2.057	1.560	1485.6	1290	
1400	3.256	34.589	3.154	27.543	36.685	45.419	64.403	2.123	1.660	1486.1	1389	
1500	3.052	34.600	2.943	27.571	36.724	45.458	61.796	2.187	0.960	1486.9	1488	
1600	2.858	34.609	2.744	27.596	36.759	45.513	59.469	2.247	1.480	1487.7	1587	
1700	2.615	34.619	2.495	27.626	36.802	45.569	56.342	2.305	0.970	1488.3	1685	
2190	1.974	34.653	1.822	27.707	36.920	45.721	48.270	2.561		1493.8	2169	

NISKIN BOTTLE DATA															
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS	
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB	
3	29.487	34.061D	4.67	105.9	1.9	0.15	0.1	0.00	29.486	21.199	29.411	37.273	3		
53	29.119	34.288D	4.95	111.7	1.6	0.14	0.1	0.00	29.106	21.496	29.714	37.582	53		
103	23.830	35.307D	4.16	86.4	3.8	0.71	7.5	0.10	23.808	23.932	32.269	40.250	103		
182	15.790	34.809D	3.48	62.1	14.2	1.06	13.8	0.01	15.766	25.655	34.246	42.464	183		
200	15.846	35.156D	3.36	60.1	9.6	1.15	14.3	0.00	15.814	25.911	34.496	42.708	201		
301	11.198	34.908D	2.35	38.1	22.7	1.87	26.3	0.00	11.166	26.596	35.361	43.742	302		
324	10.642	34.767D	1.60	25.6	27.3	2.15	30.7	0.00	10.605	26.665	35.454	43.857	326		
350	9.787	34.710D	1.58	24.8	31.0	2.27	32.5	0.00	9.746	26.769	35.594	44.032	352		
448	8.664	34.650D	1.76	27.0	35.2	2.36	34.3	0.00	8.621	26.904	35.780	44.264	451		
599	6.719	34.546D	2.92	42.7	39.8	2.31	33.0	0.00	6.643	27.110	36.078	44.648	603		
1490	3.033	34.603D	2.36	31.6	118.9	2.80	39.8	0.00	2.972	27.571	36.722	45.465	1503		
2824	1.679	34.669D	3.13	40.5	150.3	2.63	38.1	0.00	1.621	27.736	36.959	45.770	2858		



AKADEMIK KOROLEV SAGA II

STATION 43
MO/DY/YRSTART TIME
GMTBOTTOM
M

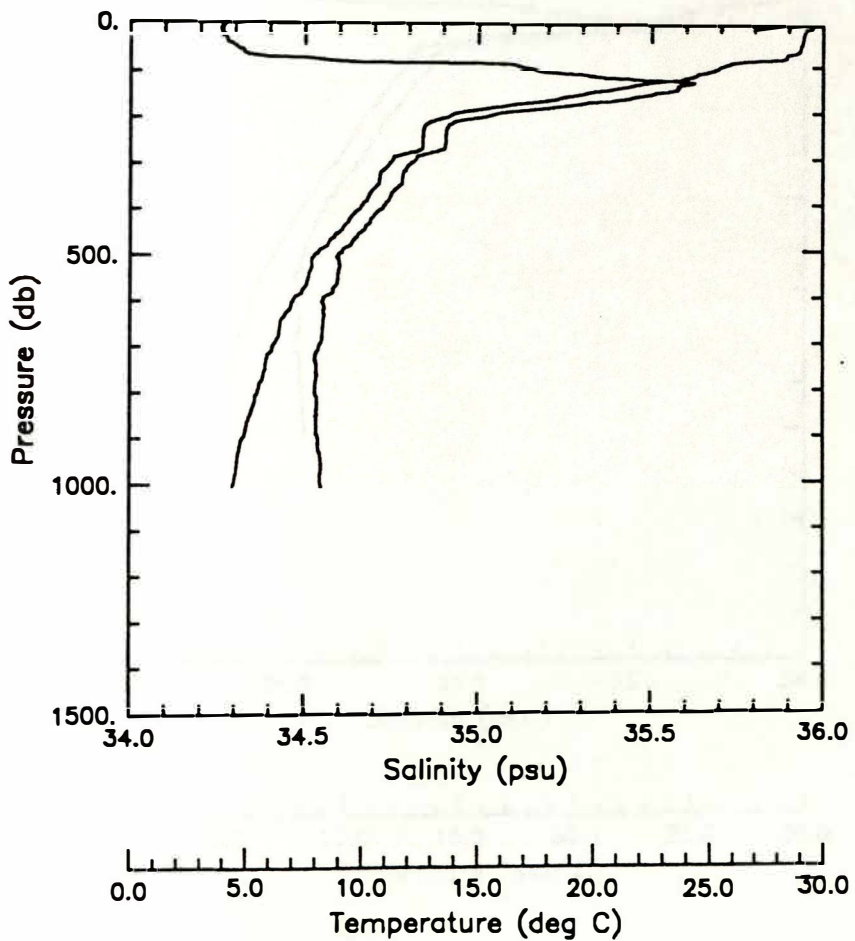
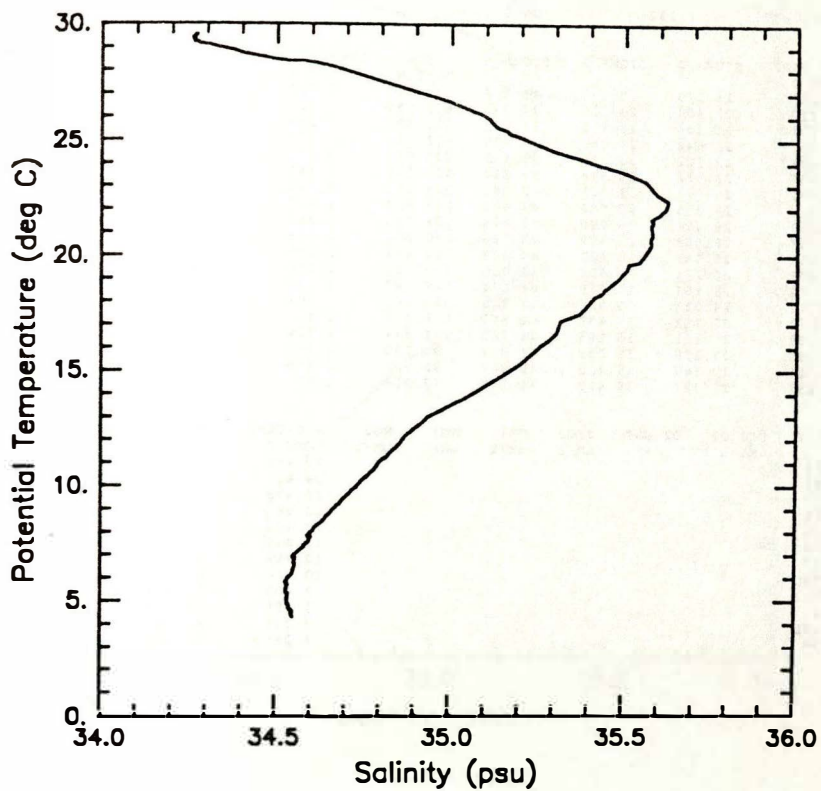
1 22.9S 160 0.6E 5/29/97

1836

2519

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA. 2	SIGMA 4	SVA CL/TCM	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	9.509	34.267	9.509	26.462	35.304	43.758	155.817	0.090		1487.2	0
20	29.261	34.265	29.256	21.429	29.643	37.509	636.833	0.128		1543.6	20
40	29.123	34.298	29.113	21.494	29.712	37.580	631.545	0.255	3.640	1543.7	40
60	29.002	34.332	28.988	21.569	29.789	37.660	625.292	0.381	7.570	1543.9	60
80	27.975	34.677	27.957	22.168	30.403	38.297	568.896	0.501	12.020	1542.3	80
100	25.427	35.157	25.405	23.338	31.635	39.578	457.783	0.601	11.320	1537.3	100
150	20.159	35.548	20.131	25.146	33.586	41.662	286.854	0.790	9.990	1525.0	149
200	13.832	35.038	13.803	26.259	34.918	43.200	191.148	0.904	6.070	1526.3	199
250	12.625	34.907	12.591	26.403	35.110	43.437	168.403	0.990	1.500	1502.9	249
300	11.249	34.812	11.211	26.591	35.354	43.734	151.164	1.071	3.510	1498.9	299
350	10.653	34.775	10.610	26.671	35.459	43.862	144.474	1.144	2.170	1497.6	348
400	9.895	34.723	9.848	26.762	35.583	44.017	136.423	1.214	2.600	1495.7	398
450	9.021	34.666	8.972	26.861	35.721	44.191	127.353	1.280	2.660	1493.3	448
500	8.094	34.609	7.953	26.967	35.873	44.387	117.260	1.341	2.470	1490.2	497
550	7.018	34.554	6.961	27.073	36.025	44.582	107.824	1.455	2.320	1488.0	597
600	6.140	34.543	6.077	27.182	36.176	44.772	97.799	1.557	1.860	1486.2	696
700	5.478	34.532	5.410	27.255	36.283	44.910	91.006	1.651	1.760	1485.2	795
800	4.843	34.542	4.770	27.337	36.396	45.052	83.364	1.738	1.810	1484.3	894
900	4.843	34.542	4.770	27.337	36.396	45.052	83.364	1.738	1.810	1484.3	894
1006	4.387	34.549	4.308	27.395	36.477	45.155	78.005	1.824		1484.2	999

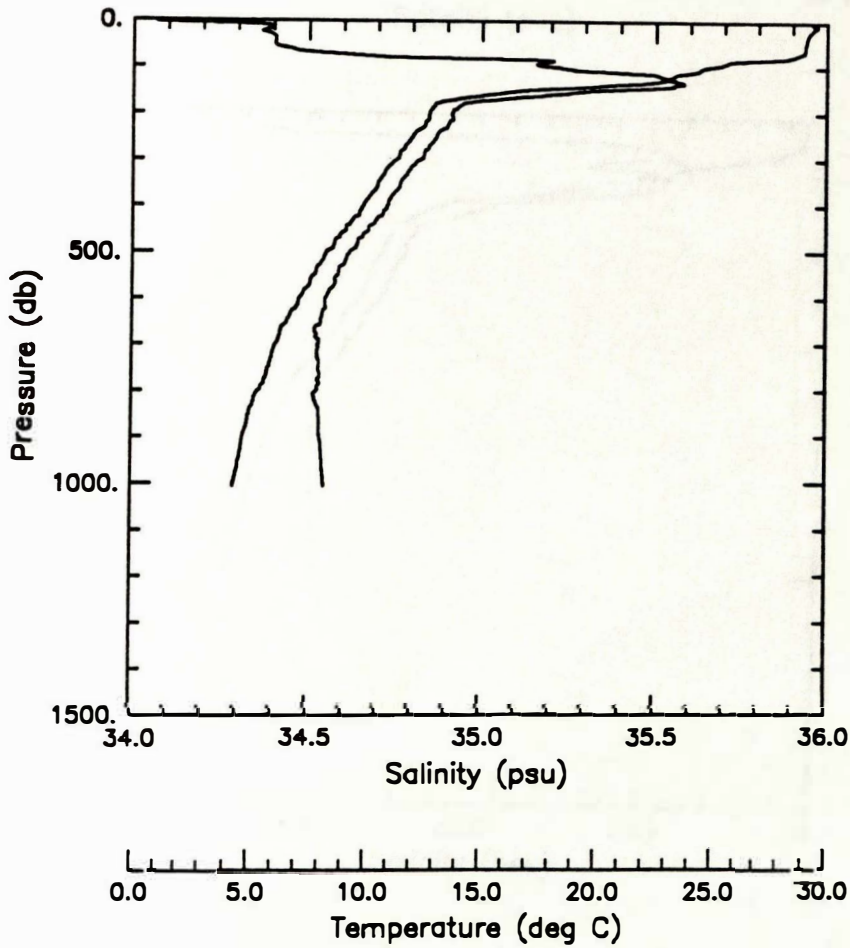
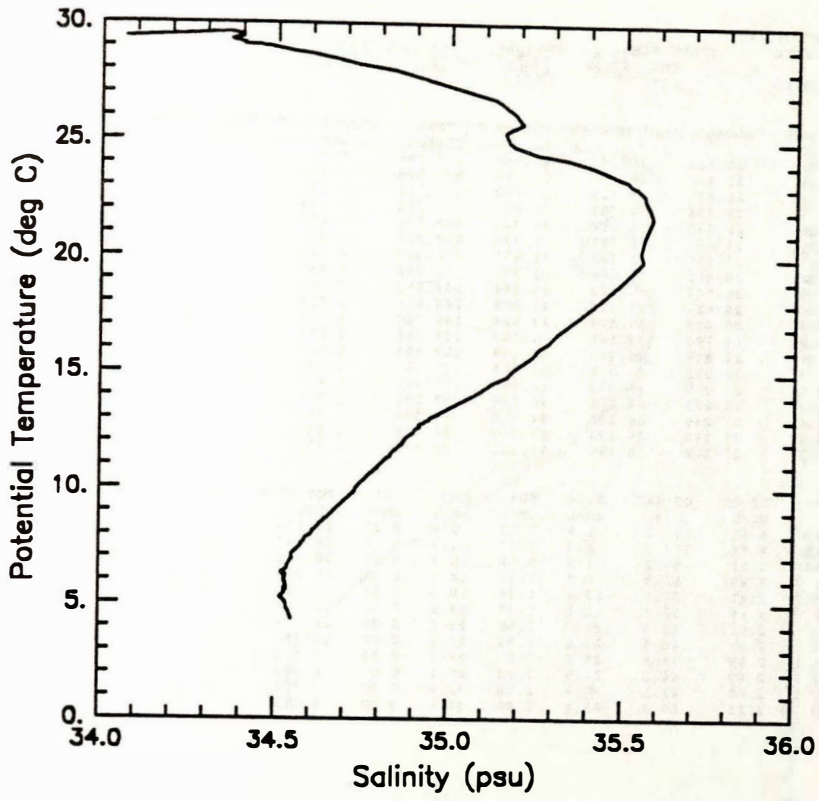
NISKIN CAST 1	BOTTLE DEPTH M	DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
		TEMP DEG C	TEMP DEG C												
6	29.492	34.269D	4.52	102.6	2.3	0.17	0.1	0.00	29.491	21.353	29.562	37.423	129		
128	21.742	35.596D	3.15	63.2	3.9	0.92	8.7	0.02	21.732	24.747	33.139	41.170	180		
179	15.257	35.192D	3.42	60.5	8.7	1.19	14.9	0.01	15.241	26.067	34.672	42.903	253		
252	12.620	34.907D	3.11	52.0	17.0	1.52	20.4	0.01	12.595	26.402	35.109	43.435	303		
302	11.281	34.816D	2.11	34.3	23.7	1.96	27.7	0.00	11.256	26.586	35.347	43.725	355		
353	10.426	34.760D	2.71	43.2	23.2	1.90	25.5	0.00	10.390	26.698	35.495	43.907	428		
426	9.370	34.687D	2.20	34.2	29.1	2.18	31.0	0.00	9.334	26.819	35.663	44.118	479		
476	8.518	34.635D	2.97	45.3	27.6	2.05	29.3	0.00	8.481	26.914	35.796	44.287	544		
541	7.699	34.597D	1.96	29.4	40.1	2.47	35.7	0.00	7.654	27.009	35.928	44.454	629		
625	6.739	34.555D	2.37	34.7	44.9	2.47	35.3	0.00	6.682	27.112	36.077	44.646	754		
749	5.761	34.535D	2.47	35.3	57.3	2.59	36.9	0.00	5.622	27.233	36.249	44.866	1007		
999	4.388	34.549D	2.33	32.1	84.4	2.77	39.4	0.00	4.125	27.414	36.506	45.193			



AKADEMIK KOROLEV SAGA II STATION 44
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTCM
 2 0.7S 160 0.0E 5/28/97 GMT 2224 M 2605

CTD DATA												
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M	
0	9.163	33.826	9.163	26.173	35.037	43.510	133.250	0.000		1485.3	0	
20	29.332	34.382	29.327	21.493	29.705	37.557	630.695	0.127		1543.9	20	
40	29.112	34.403	29.102	21.584	29.801	37.568	622.997	0.253	3.750	1543.8	40	
50	29.031	34.442	29.017	21.542	29.860	37.728	618.360	0.377	8.360	1544.0	50	
90	27.446	34.906	27.428	22.512	30.762	38.561	535.955	0.495	12.940	1541.3	90	
130	24.677	35.217	24.655	23.512	31.928	39.888	431.575	0.589	11.540	1535.5	99	
150	17.019	35.339	16.994	25.777	34.319	42.491	226.215	0.761	11.380	1515.8	149	
200	12.744	34.915	12.717	25.384	35.086	43.409	168.318	0.953	2.420	1502.5	199	
250	12.002	34.869	11.969	25.494	35.225	43.576	155.533	0.935	2.800	1500.8	249	
300	11.306	34.821	11.258	26.588	35.349	43.726	151.507	1.013	2.690	1499.2	299	
350	10.525	34.767	10.483	26.587	35.480	43.888	142.892	1.086	2.160	1497.2	348	
400	9.356	34.728	9.809	26.773	35.595	44.030	135.401	1.156	2.330	1495.6	398	
450	9.112	34.673	9.052	26.853	35.708	44.174	128.240	1.222	2.450	1493.6	448	
500	8.325	34.620	8.272	26.935	35.826	44.326	120.662	1.284	2.230	1491.4	497	
600	7.157	34.552	7.098	27.052	35.998	44.549	109.365	1.400	2.040	1488.6	597	
700	5.151	34.531	6.088	27.171	36.165	44.761	98.948	1.504	1.930	1486.3	696	
800	5.433	34.525	5.365	27.256	36.285	44.914	90.935	1.599	2.010	1485.0	795	
900	4.791	34.537	4.718	27.340	36.402	45.061	82.908	1.685	1.500	1484.1	894	
1005	4.376	34.550	4.297	27.397	36.480	45.158	77.807	1.770		1484.2	999	

NISKIN BOTTLE DATA														
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
	M	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	DEG C				DB
6	29.484	34.205								29.483	21.308	29.518	37.379	5
104	24.445	35.227								24.417	23.691	32.512	39.979	104
174	13.361	35.037								13.336	26.331	35.008	43.307	175
203	12.717	34.911								12.683	26.388	35.091	43.415	204
228	12.442	34.901								12.401	26.435	35.150	43.484	229
253	11.886	34.868								11.840	26.518	35.255	43.610	254
304	11.049	34.807								10.996	26.627	35.399	43.786	305
362	10.398	34.759D								10.340	26.705	35.505	43.919	364
428	9.467	34.701								9.405	26.819	35.659	44.111	430
503	8.365	34.627								8.298	26.936	35.826	44.325	506
798	5.443	34.529D								5.379	27.257	36.286	44.914	803
999	4.378	34.554								4.299	27.400	36.482	45.161	1006



AKADEMIK KOROLEV SAGA II STATION 45
 LATITUDE LONGITUDE MO/DY/YR START TIME
 3 0.4S 160 0.2E 5/29/87 GMT
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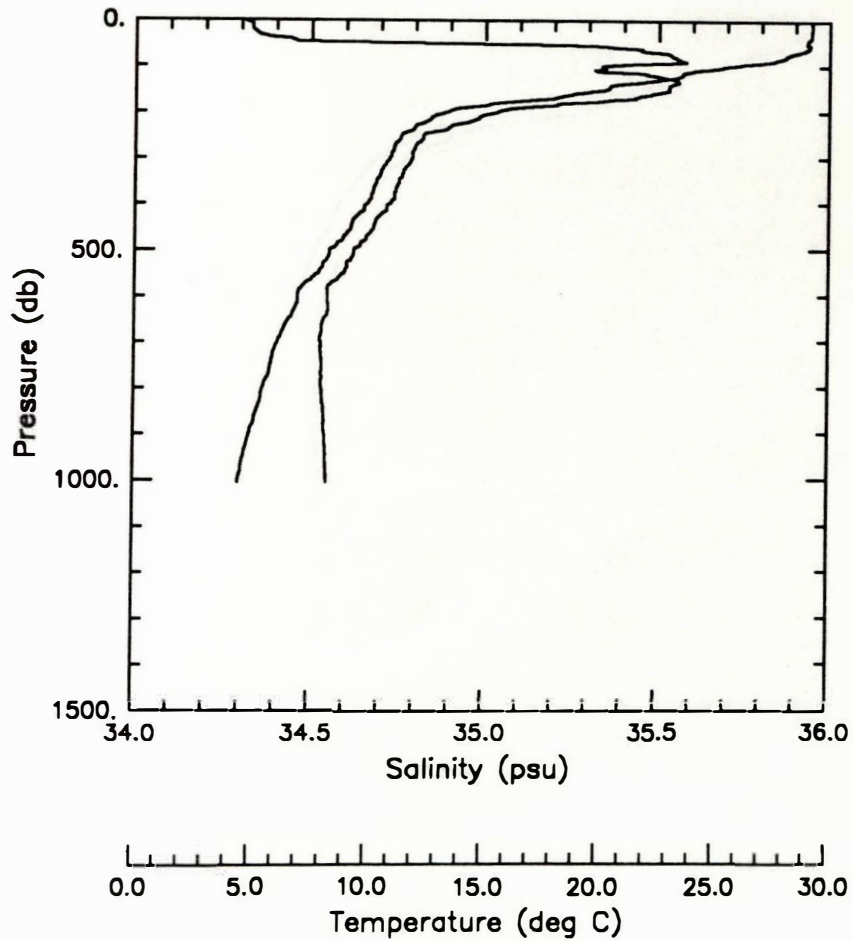
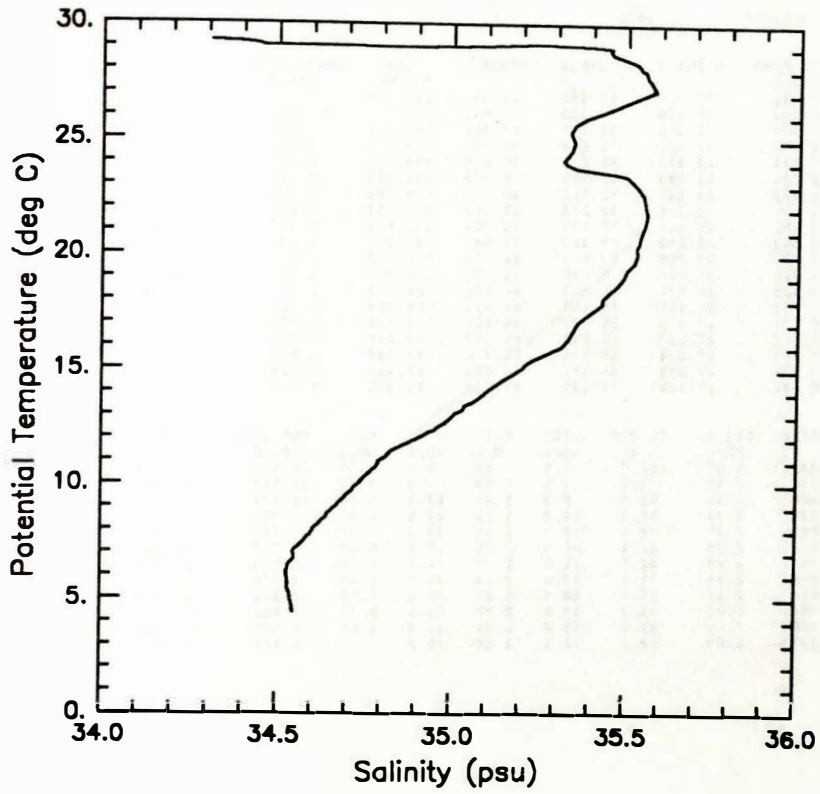
CTD DATA

PRESS	TEMP	SALINITY	PCT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL.	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	9.199	34.307	9.198	26.544	35.199	43.865	147.996	0.000		1486.1	0
20	29.208	34.335	29.203	21.499	29.714	37.580	530.036	0.126		1543.5	20
40	29.112	34.433	29.102	21.607	29.823	37.690	620.731	0.251	8.070	1543.9	40
60	29.003	35.378	28.988	22.354	30.563	38.423	550.234	0.369	9.730	1544.9	60
80	27.946	35.548	27.928	22.833	31.064	38.945	505.374	0.474	9.540	1543.1	80
100	25.443	35.166	25.421	23.490	31.785	39.725	443.252	0.570	10.500	1537.5	99
150	20.081	35.525	20.053	25.150	33.592	41.670	286.510	0.749	9.380	1524.8	149
200	13.312	35.032	13.284	25.361	35.040	43.340	171.252	0.860	6.170	1504.6	199
250	11.442	34.828	11.410	26.567	35.322	43.694	152.292	0.940	2.770	1498.8	249
300	10.903	34.791	10.866	26.637	35.415	43.808	146.613	1.015	2.230	1497.7	299
350	10.349	34.754	10.308	26.708	35.509	43.924	140.780	1.086	1.860	1496.5	348
400	9.915	34.725	9.868	26.750	35.581	44.013	136.599	1.156	2.250	1495.8	398
450	9.239	34.682	9.189	26.839	35.689	44.149	129.694	1.222	2.110	1494.1	448
500	8.392	34.627	8.329	26.932	35.820	44.318	121.020	1.285	2.320	1491.7	497
550	6.972	34.549	6.915	27.076	36.030	44.589	107.483	1.400	1.640	1487.8	597
700	6.116	34.530	6.053	27.175	36.171	44.768	98.392	1.503	1.960	1486.1	696
900	5.495	34.533	5.415	27.256	36.293	44.910	91.003	1.598	1.710	1485.2	795
900	4.929	34.543	4.856	27.330	36.384	45.036	84.228	1.636	1.650	1484.7	894
1004	4.462	34.550	4.382	27.388	36.466	45.141	78.836	1.771		1484.5	997

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
4	29.177	34.298D	4.51	104.1	1.5	0.17	0.1	0.00	29.176	21.481	29.697	37.564		4
54	29.072	35.426D	4.54	103.0	2.0	0.37	0.5	0.26	29.047	22.371	30.578	38.436		54
143	20.525	35.536D	3.02	59.2	4.2	0.96	10.9	0.02	20.492	25.041	33.469	41.536		143
184	15.291	35.221	3.49	61.8	5.0	1.13	14.1	0.01	15.260	26.086	34.689	42.919		185
204	13.174	35.028D	3.41	57.7	10.4	1.38	18.5	0.00	13.142	26.387	35.071	43.376		205
224	12.298	34.949	3.46	57.5	11.1	1.42	19.1	0.00	12.264	26.499	35.218	43.557		225
273	11.162	34.810	2.61	42.3	20.7	1.90	25.2	0.00	11.124	26.606	35.372	43.755		274
352	10.402	34.755	2.54	40.5	23.1	1.92	27.1	0.00	10.358	26.699	35.498	43.911		354
426	9.564	34.703	2.55	39.9	25.7	2.01	28.5	0.00	9.515	26.802	35.638	44.085		428
499	8.457	34.642	2.90	44.2	27.9	2.05	29.2	0.00	8.403	26.932	35.817	44.311		502
548	7.859	34.597	2.80	42.1	30.6	2.18	31.2	0.00	7.776	26.991	35.905	44.426		551
997	4.463	34.550	2.23	30.9	83.4	2.80	39.9	0.00	4.383	27.388	36.466	45.141		1004

KOROLEV Sta. 45



AKADEMIK KOROLEV SAGA II STATION 46
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 5 30.0S 160 0 0E 5/29/97 1830 1759

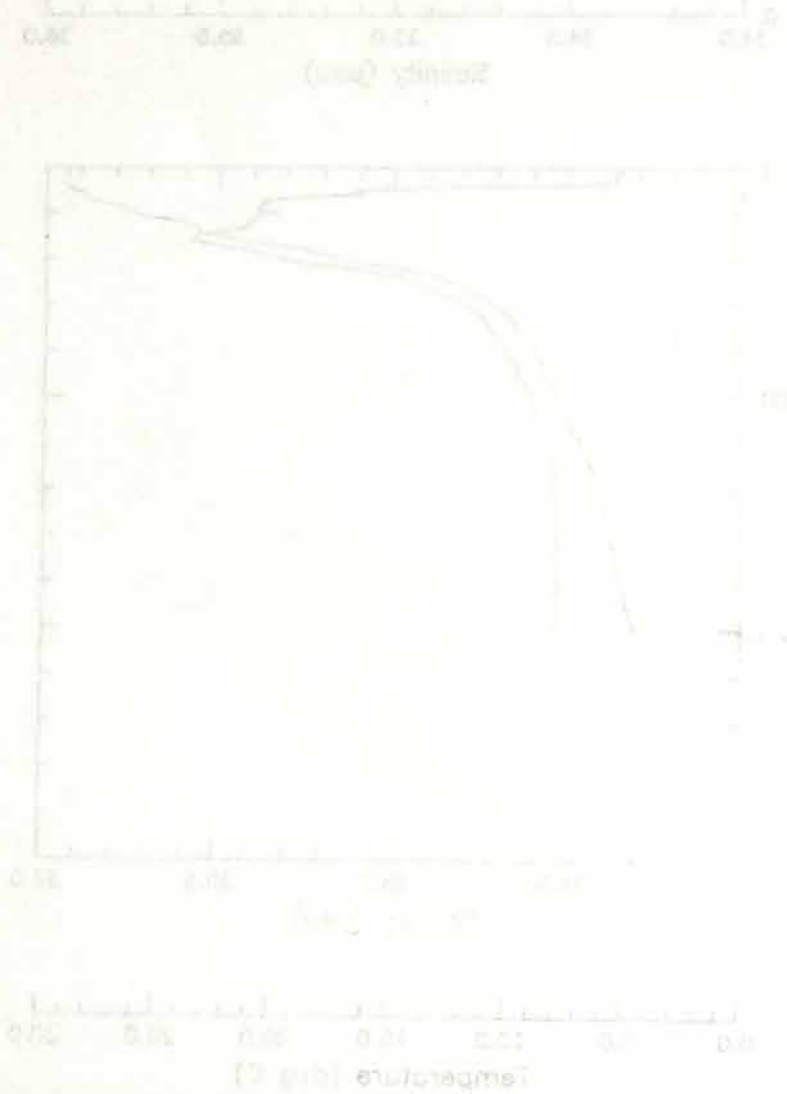
CTD DATA											
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	9.061	34.351	9.061	25.600	35.461	43.931	142.696	0.200		1485.6	0
20	29.108	34.366	29.103	21.556	29.773	37.641	624.633	0.125		1543.4	20
40	29.059	34.710	29.050	21.932	30.047	37.912	599.152	0.248		1544.0	40
60	28.390	35.169	28.376	22.401	30.626	38.501	545.695	0.362	9.460	1543.3	60
80	27.261	35.372	27.242	22.923	31.172	39.070	496.705	0.467	8.950	1541.4	79
100	26.093	35.362	26.070	23.286	31.554	39.489	462.910	0.562	8.560	1539.1	99
150	22.402	35.563	22.372	24.542	32.916	40.931	344.784	0.762	9.180	1531.0	149
200	17.016	35.312	17.003	25.754	34.296	42.469	230.152	0.901	7.510	1516.6	199
250	12.484	34.946	12.450	26.461	35.173	43.504	162.893	0.997	4.680	1502.5	249
300	10.599	34.792	10.562	26.692	35.482	43.887	141.237	1.072	3.250	1496.6	299
350	9.700	34.726	9.660	26.796	35.625	44.066	131.950	1.140	2.420	1494.2	348
400	8.964	34.674	8.920	26.876	35.738	44.210	124.883	1.204	2.050	1492.2	398
450	8.476	34.644	8.428	26.929	35.813	44.306	120.395	1.266	1.940	1491.2	448
500	7.910	34.607	7.859	26.987	35.897	44.414	115.309	1.324	1.710	1489.9	497
600	6.849	34.550	6.793	27.093	36.053	44.617	105.716	1.435	2.020	1487.4	597
700	6.191	34.533	6.127	27.167	36.159	44.753	99.246	1.538	1.930	1486.4	696
800	5.633	34.528	5.564	27.234	36.254	44.874	93.349	1.634	1.970	1485.8	795
900	5.050	34.520	4.976	27.298	36.346	44.993	87.484	1.724	1.610	1485.1	894
1006	4.562	34.534	4.482	27.364	36.437	45.108	81.355	1.813		1484.9	999

NISKIN BOTTLE DATA														
CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEPTH	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	DEG C				DB
4	29.083	34.359	4.55	102.7	1.6	0.12	0.1	0.00	29.092	21.558	29.775	37.643		4
104	26.026	35.334	3.39	73.1	3.1	0.69	6.8	0.07	26.014	23.283	31.563	39.489		104
202	16.427	35.281	2.35	42.6	8.8	1.44	17.9	0.01	16.404	25.871	34.434	42.626		203
228	12.945	34.998	2.33	39.3	14.8	1.72	22.8	0.00	12.920	26.408	35.101	43.415		229
252	11.742	34.889D	2.35	38.6	19.5	1.91	26.3	0.00	11.716	26.557	35.299	43.659		253
276	10.744	34.811	2.08	33.4	21.5	2.01	27.9	0.00	10.717	26.680	35.463	43.862		277
301	10.187	34.757	2.68	42.5	21.0	1.90	26.5	0.00	10.155	26.736	35.544	43.965		302
352	9.364	34.698	2.04	31.8	27.2	2.19	31.2	0.00	9.324	26.829	35.673	44.128		354
402	8.863	34.664	2.17	33.4	28.5	2.23	32.0	0.00	8.816	26.885	35.751	44.227		404
525	7.533	34.584	2.63	39.2	33.8	2.27	32.9	0.00	7.483	27.023	35.951	44.484		528
619	6.614	34.540	2.89	42.2	40.6	2.34	33.9	0.00	6.563	27.116	36.087	44.662		623
998	4.564	34.533	2.85	39.6	73.1	2.58	36.9		4.484	27.363	36.437	45.107		1006

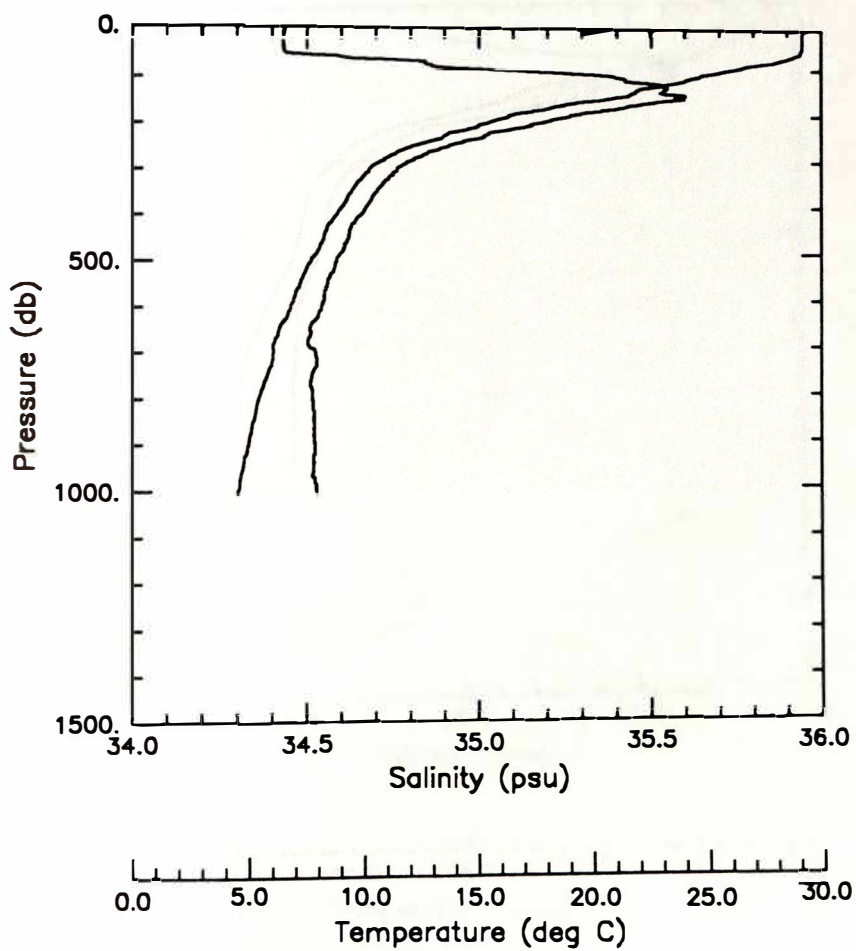
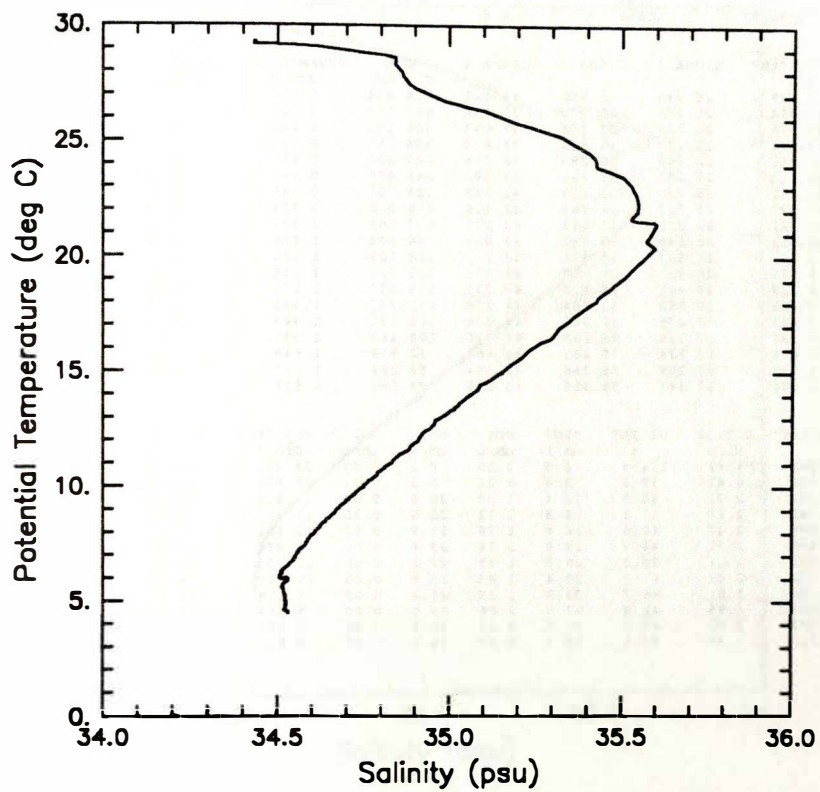
AKADEMIK KOROLEV SAGA II STATION 47
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 5 28.65 152 13.6E 5/30/87 01:51:28 2610

CTD DATA												
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	
DB	DEG C		DEG C				CL/TCN	DYN M	FREQ CPH	M/S	M	
0	9.269	34.435	9.269	26.633	35.483	43.944	139.621	0.900		1486.5	0	
20	29.187	34.431	29.182	21.579	29.793	37.658	622.485	0.125		1542.6	20	
40	29.163	34.433	29.154	21.589	29.804	37.670	622.446	0.249	3.730	1542.9	40	
60	29.069	34.591	29.054	21.741	29.957	37.823	608.844	0.373	7.850	1544.2	60	
80	27.908	34.870	27.889	22.335	30.575	38.464	552.871	0.489	11.090	1542.3	80	
100	25.628	35.234	25.606	23.334	31.625	39.563	459.159	0.590	11.580	1537.8	99	
150	21.401	35.558	21.372	24.825	33.228	41.269	317.628	0.780	9.200	1528.4	149	
200	15.894	35.223	15.852	25.957	34.540	42.750	210.465	0.906	6.350	1513.0	199	
250	12.593	34.944	12.559	26.438	35.146	43.473	165.983	1.000	5.190	1502.9	249	
300	10.358	34.772	10.322	26.719	35.520	43.934	138.514	1.074	3.190	1495.8	299	
350	9.499	34.707	9.460	26.814	35.652	44.102	130.065	1.141	2.250	1493.4	348	
400	8.857	34.662	8.814	26.894	35.750	44.227	124.044	1.205	2.290	1491.9	398	
450	8.263	34.622	8.216	26.944	35.839	44.340	119.738	1.266	1.730	1490.4	448	
500	7.725	34.588	7.675	26.999	35.918	44.443	113.965	1.324	2.140	1489.1	497	
600	6.829	34.545	6.772	27.092	36.053	44.518	105.791	1.434	1.650	1487.3	597	
700	6.074	34.523	6.011	27.175	36.173	44.572	98.335	1.536	1.970	1485.9	696	
800	5.452	34.517	5.393	27.246	36.274	44.902	91.901	1.631	1.730	1485.1	795	
900	5.014	34.524	4.940	27.305	36.355	45.004	86.742	1.721	1.410	1485.0	894	
1006	4.528	34.531	4.447	27.365	36.440	45.112	81.137	1.810		1484.8	999	

NISKIN BOTTLE DATA														
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	uM/L	uM/L	uM/L	uM/L	DEG C				DB	
6	29.254	34.435	4.59	103.9	1.6	0.16	0.1	0.00	29.253	21.558	29.770	37.634	6	
54	29.159	34.440	4.58	103.5	1.4	0.16	0.1	0.00	29.134	21.601	29.817	37.683	54	
201	15.646	35.205	2.18	38.9	9.8	1.55	19.5	0.01	15.614	25.994	34.585	42.804	204	
227	13.754	35.045	1.92	32.9	14.2	1.78	23.1	0.01	13.721	26.291	34.943	43.228	228	
252	12.425	34.937	2.05	34.1	16.7	1.87	25.0	0.00	12.391	26.465	35.190	43.513	253	
277	11.277	34.841	2.15	34.9	19.8	1.93	26.7	0.00	11.242	26.608	35.370	43.747	278	
302	10.375	34.772	2.11	33.6	22.5	2.05	28.7	0.00	10.339	26.716	35.515	43.929	303	
341	9.590	34.710	2.71	42.4	23.1	1.97	27.9	0.00	9.550	26.802	35.636	44.082	343	
401	8.786	34.653	2.78	42.7	25.6	2.05	29.2	0.00	8.742	26.888	35.758	44.237	403	
501	7.724	34.586	2.98	44.7	30.2	2.14	30.6	0.00	7.671	26.998	35.917	44.442	504	
624	6.545	34.525	3.40	49.5	37.3	2.17	31.1	0.00	6.487	27.114	36.089	44.667	628	
999	4.531	34.526	2.76	38.3	73.6	2.61	37.4	0.00	4.451	27.361	36.436	45.108	1006	



KOROLEV Sta. 47

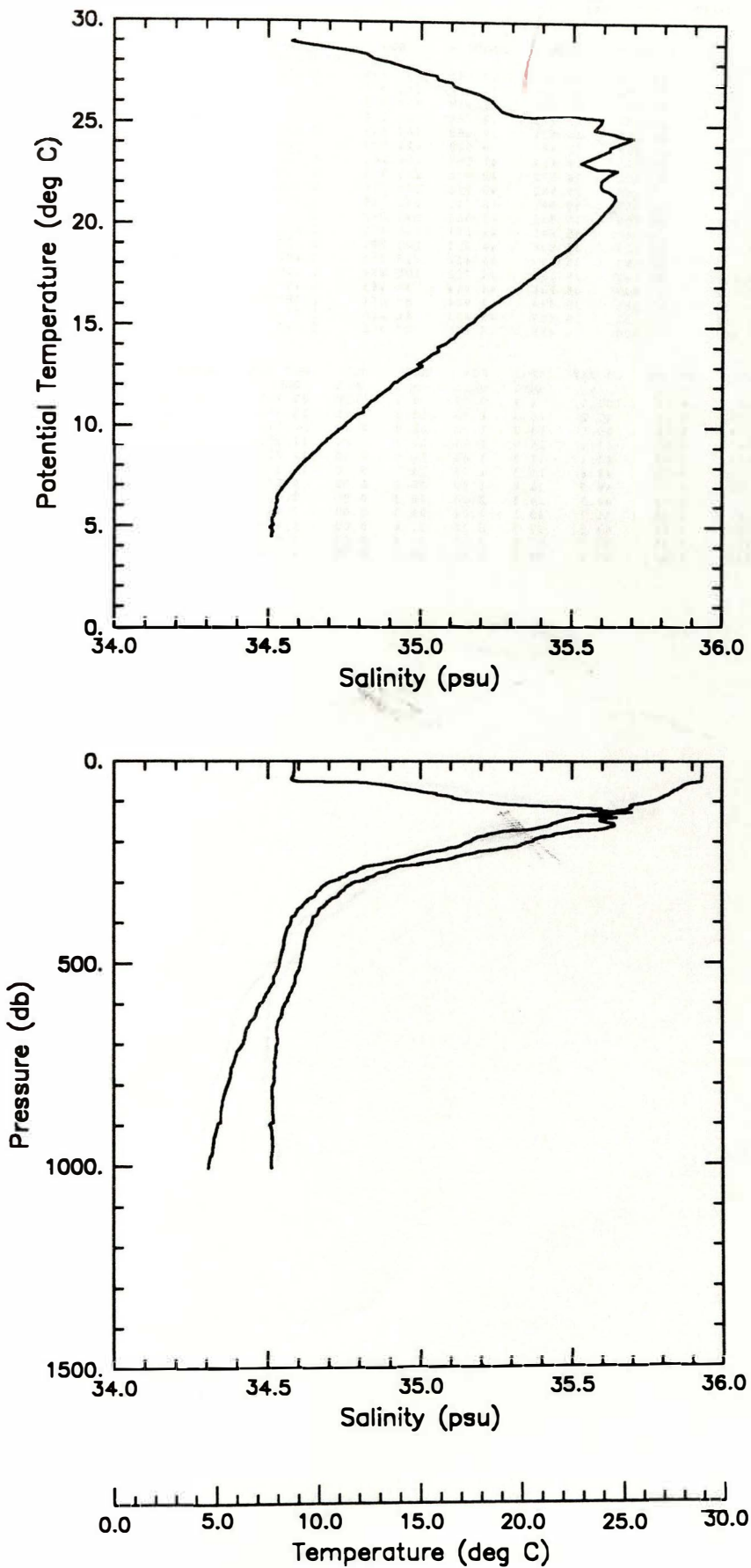


AKADEMIK KOROLEV SAGA II STATION 48
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 7 33.0S 164 31.0E 5/30/87 GMT 1830 M 1576

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SYA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS	TEMP DEG C										
0	9.009	34.586	9.009	26.793	35.652	44.121	124.433	0.000		1485.7	0
20	29.009	34.585	29.004	21.753	29.970	37.938	605.757	0.121		1543.4	20
40	28.986	34.580	28.976	21.759	29.976	37.945	606.171	0.242	6.090	1543.7	40
60	28.074	34.877	28.060	22.285	30.520	38.405	556.789	0.160	8.340	1542.3	60
80	27.343	35.039	27.325	22.645	30.896	38.796	523.203	0.467	8.190	1541.2	79
100	26.335	35.198	26.312	23.087	31.361	39.282	481.876	0.568	9.640	1539.4	99
150	21.862	35.611	21.832	24.730	33.119	41.148	326.765	0.758	8.970	1529.7	149
200	17.361	35.360	17.327	25.713	34.244	42.406	234.119	0.905	6.080	1517.6	199
250	13.557	35.033	13.522	26.313	34.983	43.275	177.369	1.009	6.180	1506.2	249
300	10.538	34.787	10.502	26.699	35.492	43.899	140.508	1.086	3.320	1496.4	299
350	9.346	34.694	9.307	26.929	35.674	44.130	128.528	1.153	2.780	1492.8	348
400	8.614	34.644	8.571	26.907	35.785	44.271	121.620	1.215	1.800	1490.9	398
450	8.276	34.620	8.229	26.941	35.835	44.336	119.057	1.275	1.160	1490.4	448
500	8.075	34.607	8.023	26.962	35.864	44.375	117.857	1.335	1.390	1490.5	497
600	7.141	34.556	7.083	27.058	36.005	44.556	109.391	1.449	2.030	1488.5	597
700	6.260	34.529	6.197	27.156	36.145	44.736	100.440	1.553	1.980	1486.7	696
800	5.543	34.517	5.474	27.236	36.261	44.885	92.979	1.649	1.520	1485.5	795
900	5.049	34.509	4.975	27.289	36.338	44.985	88.296	1.740	1.610	1485.1	894
1006	4.597	34.511	4.506	27.343	36.416	45.085	83.336	1.831		1485.0	999

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PO4 uM/L	NO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB	
CAST 1	DEPTH M													
	6	28.982	34.581	4.63	104.4	2.5	0.19	0.2	0.00	28.991	21.758	29.976	17.944	5
	53	28.645	34.712	4.42	99.2	2.4	0.21	0.2	0.00	29.632	21.973	30.196	19.071	53
	227	14.949	35.143	2.31	40.5	12.4	1.53	20.4	0.00	14.818	26.123	34.743	42.989	228
	243	13.940	35.049	2.17	37.3	14.6	1.72	22.6	0.00	13.907	26.245	34.900	43.178	243
	252	12.475	34.939	2.43	40.5	16.4	1.76	23.8	0.00	12.441	26.457	35.169	43.301	253
	263	11.920	34.898	2.71	44.7	17.0	1.74	23.4	0.00	11.984	26.533	35.267	43.620	264
	277	11.261	34.835	2.11	34.3	20.5	1.98	27.2	0.00	11.223	26.507	35.359	43.748	278
	302	10.195	34.750	2.97	47.1	20.4	1.85	25.9	0.00	10.155	26.731	35.538	43.960	303
	341	9.259	34.686	3.01	46.7	23.3	1.95	27.4	0.00	9.214	26.838	35.687	44.147	343
	403	8.409	34.630	2.95	44.9	27.5	2.06	29.4	0.00	8.356	26.930	35.817	44.313	405
	551	7.664	34.583	3.01	45.0	30.5	2.14	30.8	0.00	7.601	27.005	35.928	44.456	554
	999	4.578	34.510	3.28	45.6	65.7	2.45	35.2	0.00	4.497	27.343	36.417	45.086	1007

KOROLEV Sta. 48

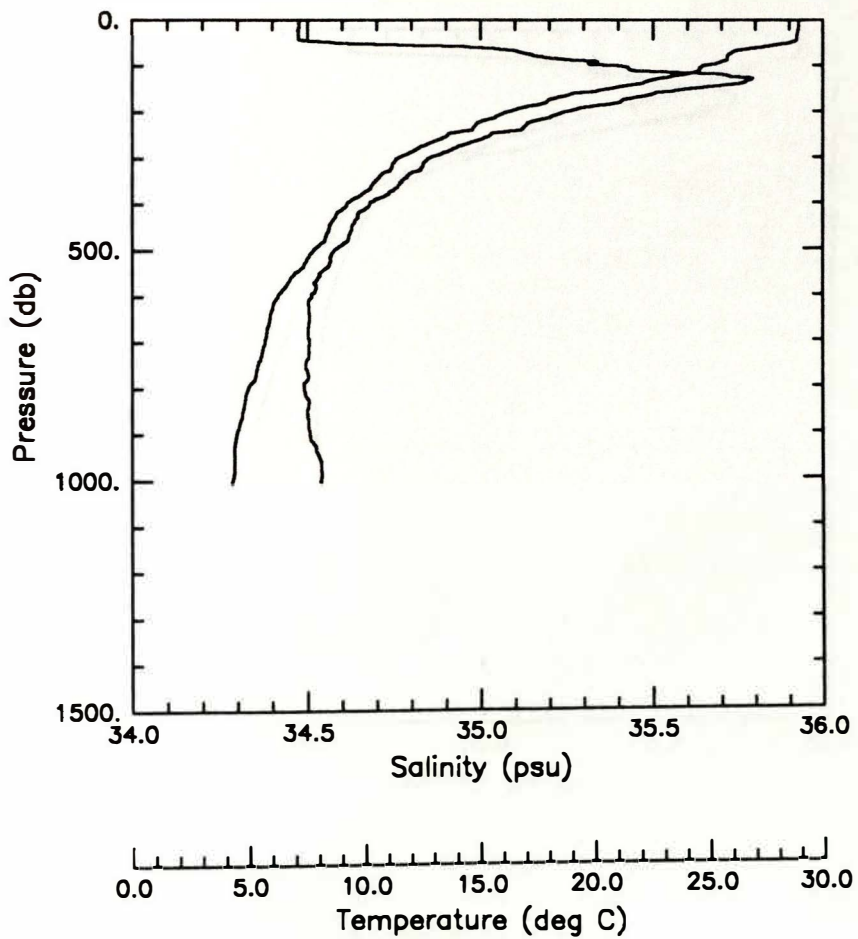
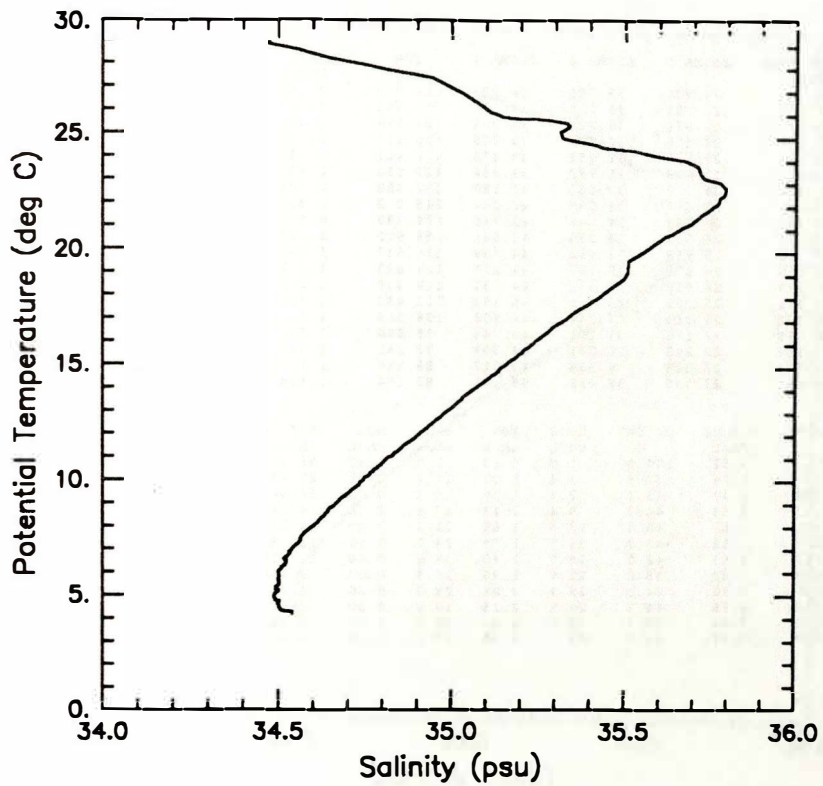


AKADEMIK KOROLEV SAGA II STATION 49
 LATITUDE LONGITUDE MO/DY/YR START TIME GMT BOTTOM M
 9 33 5S 167 34 8E 5/31/37 619 0

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	8 901	34.477	8 901	26.724	35.590	44.065	130.903	0.000		1483.2	0
20	28.903	34.474	28.999	21.706	29.926	37.797	610.317	0.122		1543.1	20
40	28.813	34.482	28.804	21.743	29.966	37.838	607.678	0.244	8.150	1543.2	40
60	27.154	34.949	27.141	22.637	30.893	38.798	523.074	0.359	11.070	1540.4	60
80	25.778	35.131	25.760	23.246	31.534	39.468	465.562	0.456	8.940	1537.8	79
100	24.839	35.377	24.818	23.683	31.993	39.948	424.793	0.546	8.850	1536.1	99
150	20.636	35.615	20.608	25.070	33.494	41.556	294.241	0.725	8.550	1526.4	149
200	16.210	35.251	16.178	25.901	34.472	42.671	215.969	0.849	5.780	1514.0	199
250	13.543	35.033	13.607	26.296	34.952	43.251	179.066	0.948	4.960	1506.5	249
300	11.459	34.856	11.421	26.587	35.341	43.711	151.746	1.030	3.470	1499.7	299
350	10.449	34.774	10.407	26.705	35.502	43.913	141.069	1.103	2.820	1496.9	348
400	9.214	34.690	9.170	26.840	35.691	44.153	128.452	1.171	2.910	1493.2	398
450	8.444	34.629	8.397	26.923	35.808	44.302	120.981	1.233	1.790	1491.1	448
500	7.788	34.580	7.737	26.983	35.899	44.422	115.550	1.292	2.430	1489.4	497
600	6.251	34.512	6.197	27.142	36.131	44.722	100.264	1.400	2.100	1485.0	597
700	5.683	34.505	5.622	27.209	36.226	44.844	94.463	1.497	1.470	1484.3	696
800	4.992	34.491	4.917	27.281	36.334	44.984	87.664	1.589	1.960	1483.2	795
900	4.483	34.508	4.412	27.351	36.429	45.103	81.219	1.673	1.530	1482.8	894
1006	4.275	34.540	4.197	27.400	36.498	45.171	77.301	1.757		1483.7	999

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
9	28.901	34.490	4.56	102.6	1.9	0.13	0.1	0.00	28.900	21.709	29.930	37.801	9
204	15.004	35.248	2.24	40.2	10.0	1.52	19.8	0.01	15.996	25.940	34.518	42.723	205
244	14.074	35.099	2.08	35.9	13.2	1.70	21.9	0.00	14.041	26.256	34.905	43.173	245
279	12.336	34.940	2.59	43.1	16.9	1.74	23.3	0.00	12.303	26.485	35.202	43.539	280
303	11.271	34.828	2.69	43.7	18.9	1.82	24.9	0.00	11.239	26.598	35.360	43.738	304
354	10.403	34.780	3.05	48.6	19.3	1.79	24.7	0.00	10.371	26.716	35.515	43.927	356
385	9.608	34.722	2.97	46.5	21.6	1.90	26.4	0.00	9.575	26.307	35.639	44.084	387
434	8.664	34.651	3.02	46.3	24.8	2.00	28.3	0.00	8.632	26.903	35.778	44.262	436
512	7.491	34.569	3.44	51.3	29.1	2.04	29.3	0.00	7.457	27.015	35.944	44.479	515
576	6.471	34.534	3.40	49.5	37.5	2.18	31.4	0.00	6.434	27.128	36.106	44.686	580
700	5.646	34.515	3.35	47.8	47.6	2.31	33.4	0.00	5.599	27.220	36.238	44.856	705
998	4.276	34.543	2.64	36.4	80.2	2.68	38.2	0.00	4.198	27.402	36.490	45.174	1006

KOROLEV Sta. 49



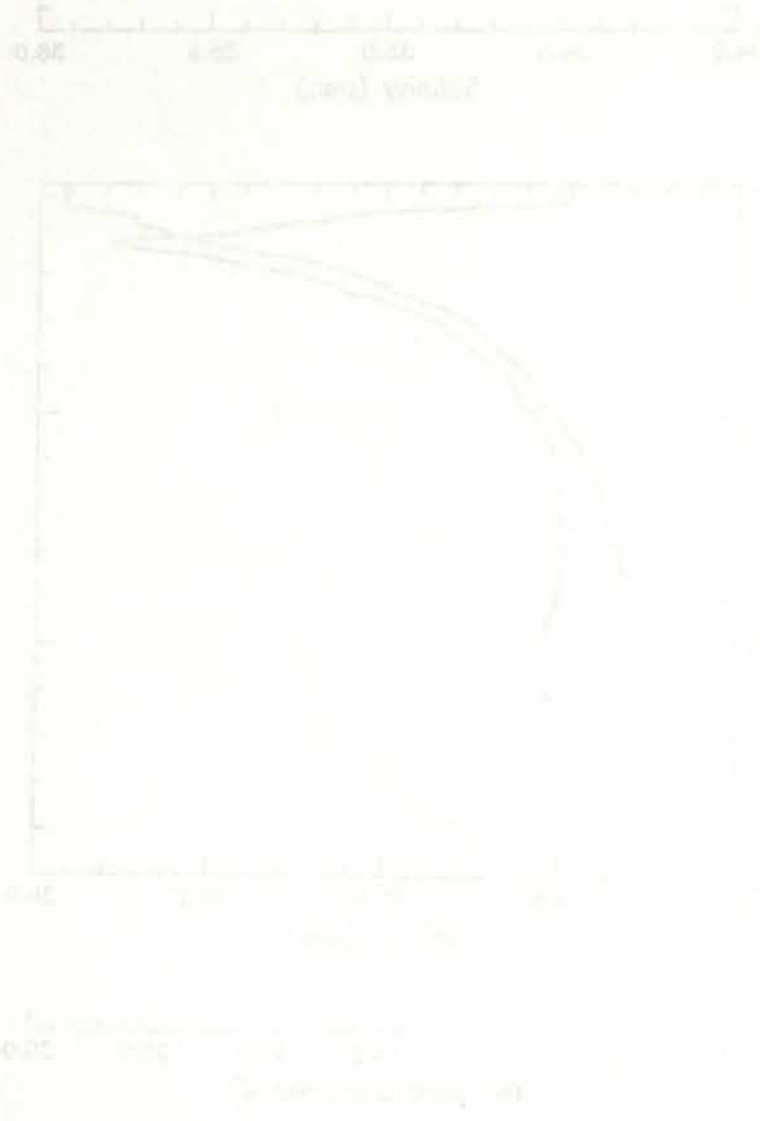
AKADEMIK KOROLEV SAGA II STATION 50
 LATITUDE LONGITUDE NO/DY/YR START TIME BOTTOM
 9 35 03 169 3 0E 5/21/87 GMT 1830 M 3879

CTD DATA

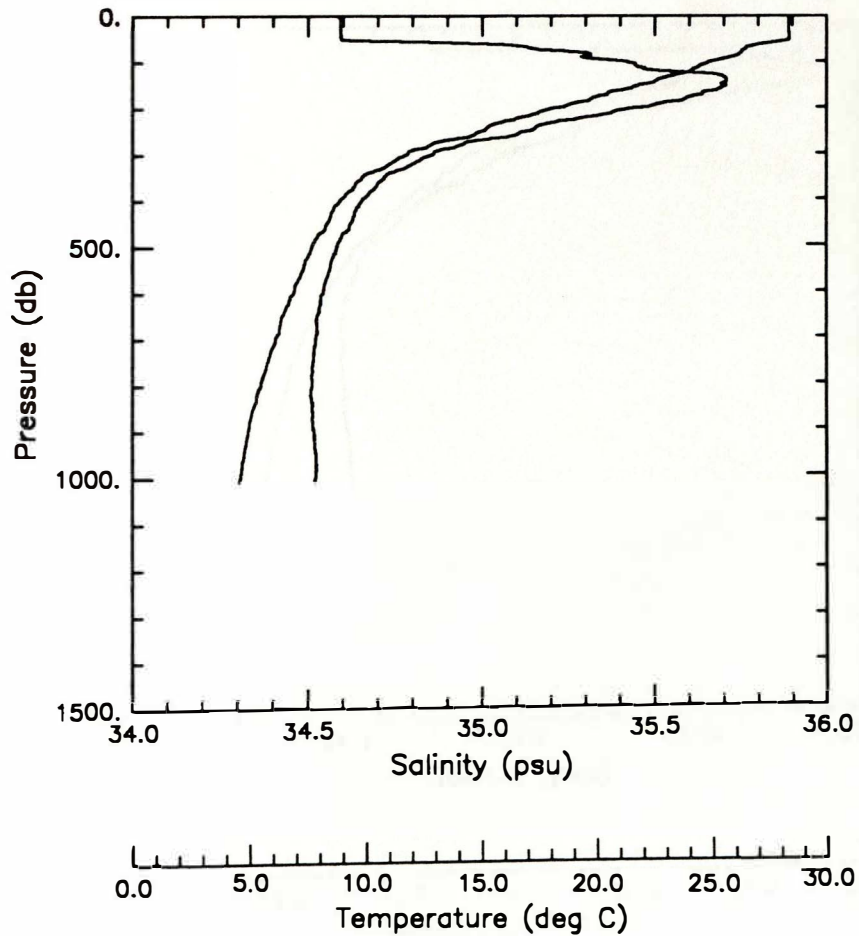
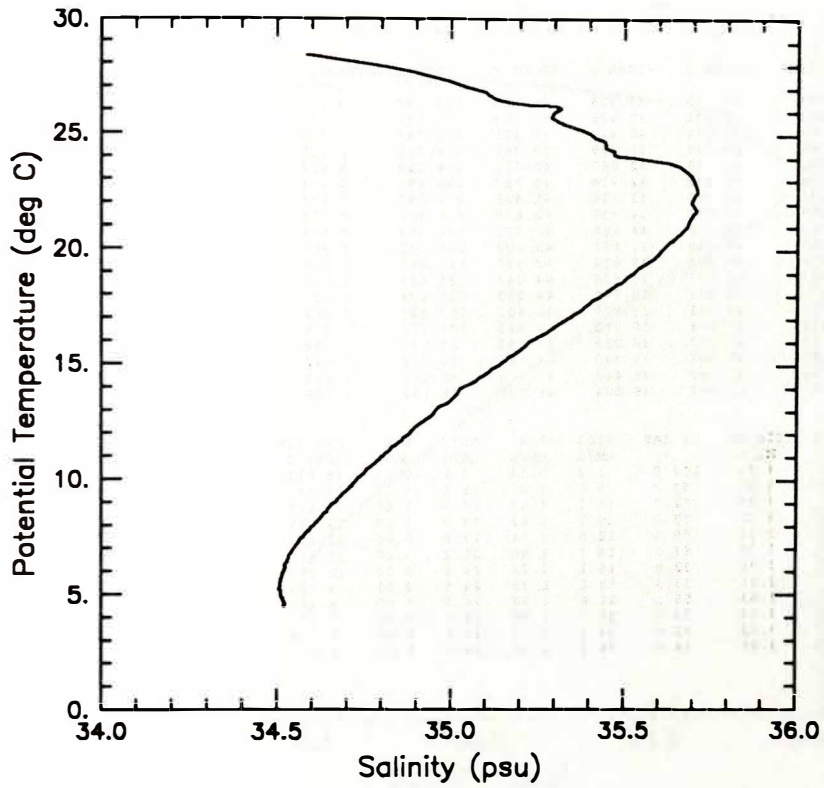
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TCH	DYN M	FREQ CPH	M/S	M
0	8.341	34.580	8.341	26.893	35.781	44.279	114.962	0.000		1483.2	0
20	28.341	34.593	28.336	21.991	30.213	33.395	583.952	0.117		1542.7	20
40	28.351	34.593	28.341	21.979	30.211	38.093	585.056	0.234		1542.1	40
60	27.382	34.939	27.368	22.556	30.807	38.706	530.815	0.347	6.250	1540.9	59
80	26.217	35.269	26.199	23.176	31.452	39.334	472.417	0.447	10.240	1538.9	79
100	24.932	35.403	24.911	23.675	31.982	39.934	425.580	0.537	9.180	1536.3	99
150	21.935	35.699	21.906	24.777	33.162	41.188	322.390	0.724	7.380	1529.9	149
200	18.235	35.449	18.200	25.567	34.068	42.202	248.272	0.865	6.500	1520.3	199
250	14.974	35.131	14.936	26.088	34.704	42.946	199.339	0.976	5.250	1510.9	249
300	11.719	34.854	11.680	26.537	35.280	43.641	156.620	1.064	4.350	1500.6	299
350	9.823	34.717	9.783	26.758	35.592	44.029	134.637	1.137	3.420	1494.6	349
400	8.873	34.654	8.830	26.875	35.741	44.217	124.883	1.202	2.540	1491.9	398
450	8.296	34.620	8.249	26.938	35.831	44.331	119.339	1.263	2.040	1490.5	448
500	7.661	34.582	7.611	27.003	35.925	44.453	113.490	1.321	1.800	1488.9	497
600	6.859	34.541	6.802	27.084	36.044	44.608	106.513	1.431	1.790	1487.4	597
700	6.101	34.521	6.038	27.170	36.166	44.765	98.850	1.533	1.700	1486.0	696
800	5.456	34.511	5.387	27.242	36.271	44.899	92.231	1.628	1.610	1485.1	795
900	4.926	34.516	4.852	27.308	36.364	45.017	86.136	1.717	1.370	1484.6	894
1008	4.547	34.520	4.467	27.355	36.430	45.101	82.154	1.808		1484.9	1001

NISKIN BOTTLE DATA

CAST 1	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SiO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	UM/L	DEG C				DB
10	28.363	34.597	4.52	100.9	1.5	0.13	0.0	0.00	28.361	21.976	30.207	38.088	10	
154	21.913	35.707	2.76	55.5	3.4	1.00	11.2	0.01	21.872	24.792	33.179	41.205	154	
225	16.485	35.290	2.49	45.1	7.5	1.38	16.3	0.00	16.445	25.869	34.430	42.620	226	
253	15.038	35.142	2.53	44.5	9.4	1.48	17.9	0.00	14.995	26.084	34.698	42.938	254	
280	13.379	34.941	2.67	45.4	13.5	1.65	21.3	0.00	13.336	26.280	34.958	43.257	281	
314	11.239	34.825	2.59	43.7	16.3	1.79	24.0	0.00	11.194	26.604	35.368	43.748	315	
334	10.466	34.769	2.63	42.0	18.6	1.90	25.8	0.00	10.419	26.699	35.496	43.906	335	
365	9.514	34.699	2.88	45.0	21.6	1.96	26.9	0.00	9.464	26.807	35.645	44.094	367	
424	8.549	34.636	2.90	44.3	25.9	2.06	29.2	0.00	8.494	26.913	35.794	44.284	426	
503	7.700	34.588	2.96	44.3	29.3	2.15	30.8	0.00	7.641	27.003	35.924	44.450	506	
606	6.808	34.542	3.12	45.7	35.4	2.23	32.1	0.00	6.741	27.094	36.057	44.623	609	
999	4.548	34.519	2.91	40.4	69.1	2.58	37.1	0.00	4.468	27.354	36.428	45.099	1006	



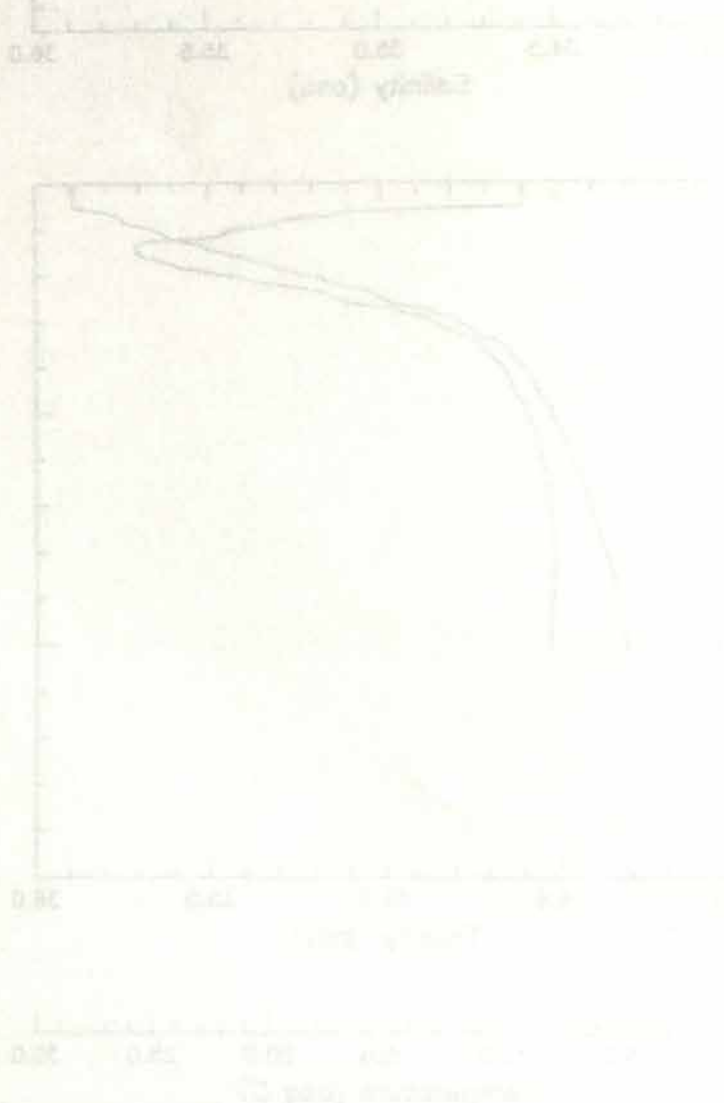
KOROLEV Sta. 50



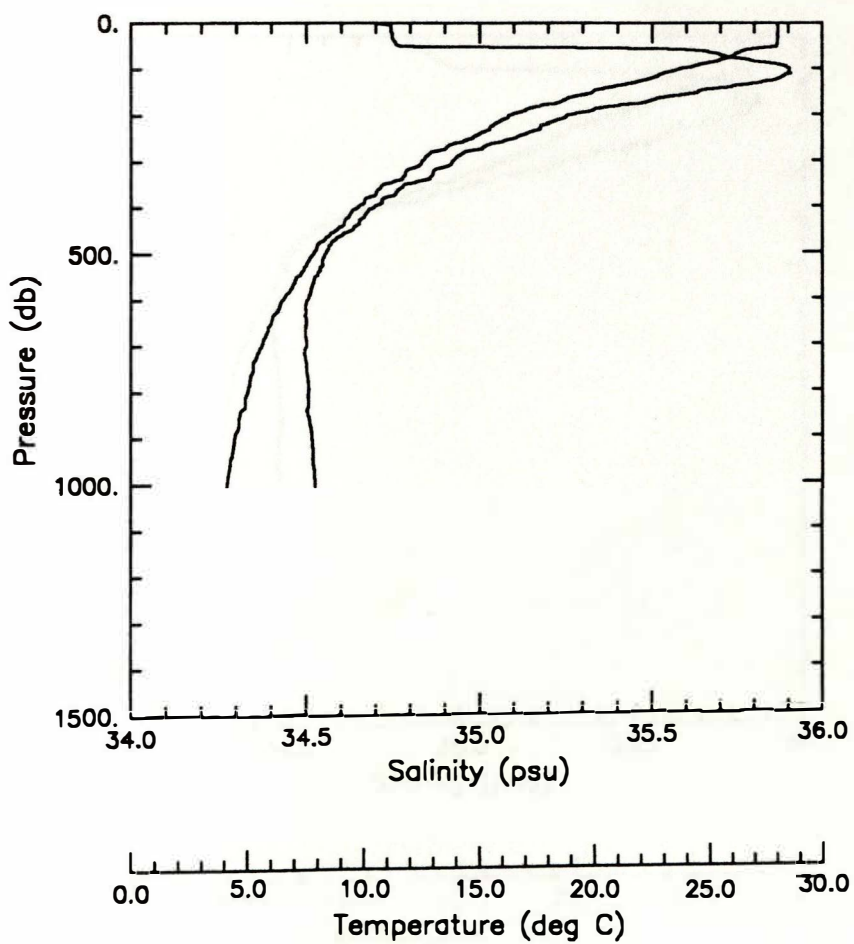
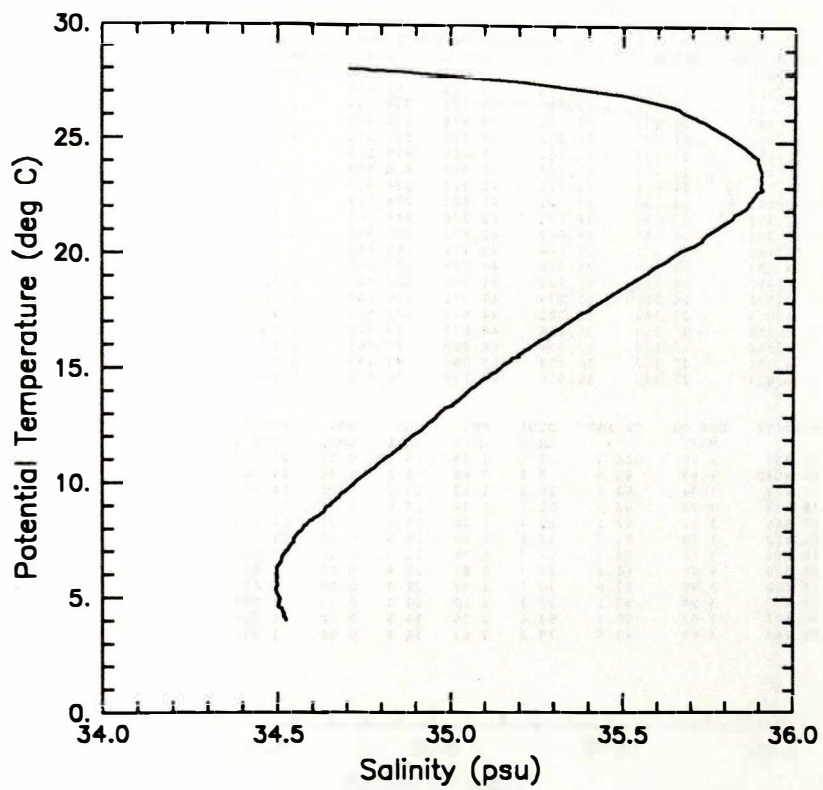
AKADEMIK KOROLEV SAGA II STATION S1
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 GMT M
 11 31.9S 170 2 SE 6/ 1/87 624 1883

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	8.039	34.677	8.039	27.015	35.916	44.424	103.385	0.000		1482.2	0
20	28.047	34.745	28.042	22.191	30.429	38.315	563.790	0.113		1541.5	19
40	28.032	34.753	28.023	22.204	30.441	38.328	563.563	0.226		1541.8	39
60	26.703	35.544	26.689	23.228	31.489	39.398	466.519	0.331	11.393	1540.0	59
80	25.510	35.777	25.492	23.779	32.067	40.001	414.829	0.419	9.940	1537.8	79
100	23.757	35.899	23.736	24.402	32.734	40.710	356.191	0.496	8.910	1534.0	99
150	19.898	35.633	19.871	25.280	33.726	41.809	274.090	0.653	6.790	1524.4	149
200	16.392	35.268	16.359	25.871	34.436	42.629	218.907	0.775	5.090	1514.6	199
250	14.623	35.098	14.585	26.139	34.768	43.022	194.398	0.879	4.670	1509.7	249
300	12.509	34.923	12.468	26.439	35.151	43.482	166.301	0.967	3.470	1503.4	299
350	10.916	34.792	10.873	26.637	35.414	43.807	147.897	1.046	3.610	1498.6	348
400	9.681	34.692	9.635	26.773	35.604	44.047	135.169	1.117	2.830	1494.9	398
450	8.722	34.624	8.673	26.876	35.749	44.232	125.679	1.182	2.910	1492.1	448
500	7.786	34.554	7.735	26.963	35.879	44.403	117.427	1.243	2.150	1489.3	497
600	6.484	34.502	6.429	27.104	36.082	44.663	104.121	1.354	2.200	1485.9	597
700	5.575	34.499	5.515	27.217	36.239	44.862	93.547	1.452	1.870	1483.9	696
800	4.986	34.506	4.920	27.293	36.345	44.995	86.508	1.542	1.440	1483.2	795
900	4.431	34.516	4.361	27.353	36.443	45.119	80.013	1.625	1.430	1482.6	894
1024	4.092	34.525	4.016	27.407	36.504	45.197	75.172	1.706		1482.9	997

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB	
CAST 1	DEPTH M													TEMP DEG C
	9	28.030	4.61	102.5	1.8	0.14	0.1	0.00	29.028	22.251	30.439	38.326	9	
	256	14.590	3.05	53.2	9.0	1.38	16.6	0.01	14.567	26.147	34.777	43.031	257	
	278	13.661	3.027	3.08	52.7	10.1	1.43	17.7	0.00	13.629	26.286	34.952	43.240	279
	291	12.936	3.31	55.7	10.7	1.42	19.0	0.00	12.901	26.398	35.092	43.407	292	
	315	12.209	3.35	55.5	12.9	1.54	19.9	0.00	12.172	26.490	35.213	43.555	316	
	342	11.450	3.49	53.0	13.7	1.60	21.2	0.00	11.410	26.583	35.338	43.709	344	
	374	10.429	3.31	52.8	16.1	1.72	23.1	0.00	10.389	26.697	35.495	43.907	376	
	413	9.535	3.41	53.3	18.0	1.79	24.5	0.00	9.493	26.796	35.633	44.081	415	
	462	8.293	3.63	55.1	21.6	1.90	26.5	0.00	8.249	26.913	35.806	44.307	464	
	529	7.426	3.62	53.9	26.1	1.99	28.2	0.00	7.376	27.016	35.949	44.487	532	
	596	6.588	3.62	52.8	33.2	2.12	30.1	0.00	6.532	27.100	36.074	44.650	599	
	995	4.096	3.26	44.8	74.7	2.50	35.8	0.00	4.019	27.406	36.503	45.196	1002	



KOROLEV Sta. 51



AKADEMIK KOROLEV SAGA II STATION 52
 LATITUDE LONGITUDE MO/DY/YR START TIME BCTTOM
 13 48.9S 170 0.4E 5/ 1/97 GMT 3001

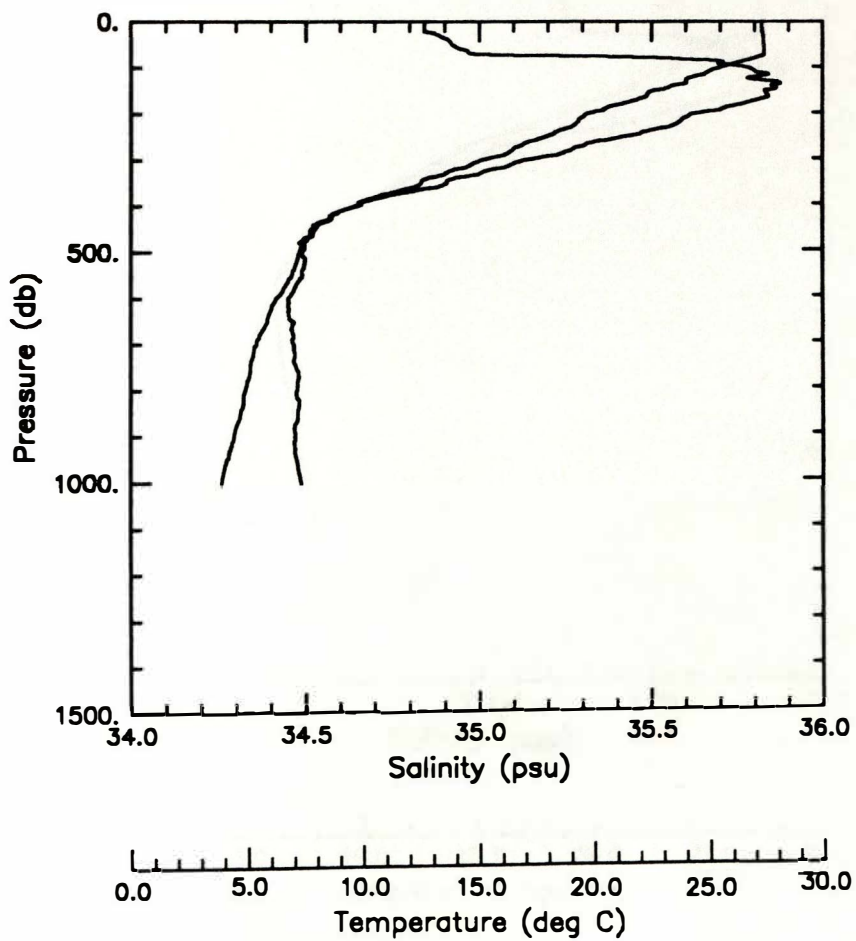
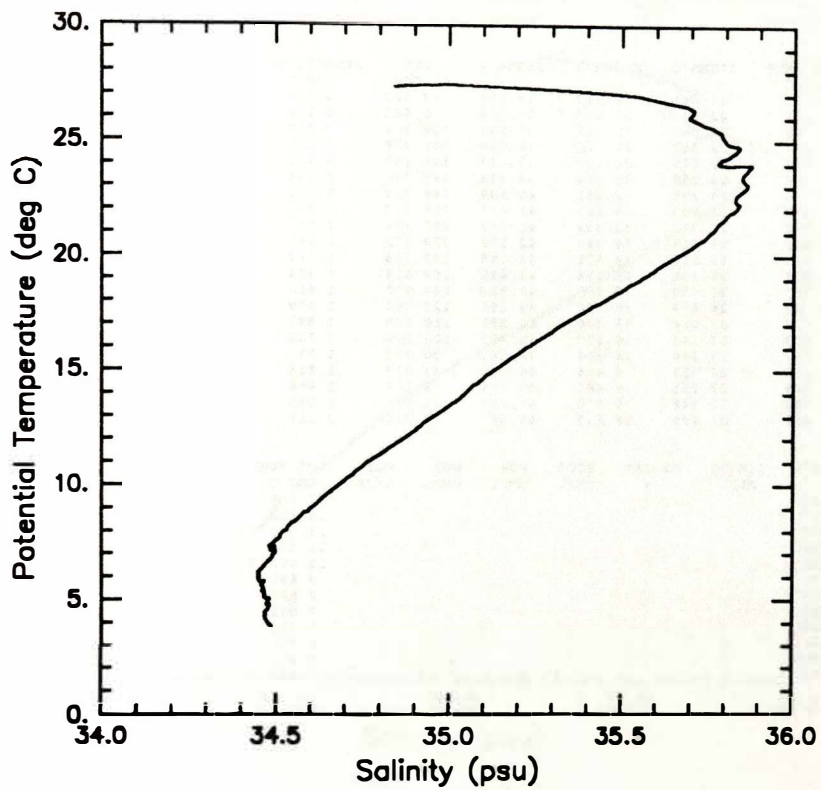
CTD DATA

PRESS DB	TEMP DEG C	SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
0	7.319	34.842	7.319	27.250	36.181	44.719	91.103	0.000		1479.7	0
20	27.328	34.847	27.324	22.501	30.754	38.656	534.141	0.107		1540.7	19
40	27.391	34.906	27.382	22.527	30.778	38.679	532.615	0.213	2.210	1540.5	39
60	27.416	34.947	27.402	22.551	30.802	38.700	531.233	0.320	6.380	1541.0	59
80	26.950	35.484	26.931	23.107	31.352	39.266	479.112	0.423	9.960	1540.8	79
100	25.514	35.765	25.492	23.771	32.059	39.993	416.559	0.512	9.040	1538.1	99
150	22.765	35.842	22.734	24.651	33.011	41.014	334.530	0.700	6.990	1532.3	149
200	19.880	35.642	19.843	25.294	33.741	41.825	274.726	0.852	5.470	1525.2	199
250	17.965	35.431	17.922	25.623	34.133	42.276	244.767	0.982	4.190	1520.3	249
300	15.287	35.152	15.241	26.037	34.642	42.873	205.985	1.095	3.370	1512.7	299
350	12.487	34.905	12.440	26.431	35.144	43.476	168.462	1.198	4.630	1504.1	348
400	9.624	34.648	9.579	26.749	35.532	44.028	137.460	1.265	4.060	1494.6	398
450	7.926	34.516	7.880	26.912	35.823	44.340	121.425	1.329	2.650	1489.0	448
500	7.239	34.490	7.190	26.990	35.933	44.481	114.189	1.387	1.990	1487.2	497
600	6.270	34.452	6.216	27.092	36.081	44.673	104.944	1.497	2.160	1485.0	597
700	5.377	34.464	5.318	27.213	36.246	44.879	93.575	1.596	1.860	1483.1	696
800	4.905	34.475	4.840	27.278	36.334	44.998	87.863	1.687	1.350	1482.8	795
900	4.421	34.470	4.351	27.327	36.408	45.086	83.293	1.772	1.400	1482.5	894
1000	3.892	34.487	3.817	27.397	36.506	45.209	76.550	1.857		1482.1	999

NISKIN BOTTLE DATA

CAST 1	DEPTH M	TEMP DEG C	SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
7	27.321	34.834	4.75	104.4	5.1	0.19	0.1	0.30	27.319	22.493	30.746	38.648	7	
115	24.798	35.814D	3.95	83.6	5.4	0.46	2.1	0.46	24.742	24.037	32.343	40.295	115	
305	14.895	35.128	3.54	62.1	10.3	1.13	13.0	0.00	14.853	26.104	34.723	42.962	306	
335	12.694	34.935	3.73	62.5	11.7	1.24	15.4	0.00	12.654	26.412	35.116	43.440	337	
344	12.513	34.911	3.72	62.1	12.4	1.28	16.1	0.00	12.470	26.430	35.141	43.472	346	
354	11.808	34.872	3.74	61.3	13.4	1.32	16.9	0.00	11.763	26.535	35.275	43.633	356	
386	10.070	34.696	3.71	58.7	17.5	1.59	21.3	0.00	10.026	26.711	35.524	43.951	389	
456	7.963	34.538	4.01	60.4	23.3	1.82	25.4	0.00	7.921	26.923	35.831	44.347	458	
522	7.111	34.502	3.86	57.0	30.7	1.99	28.2	0.00	7.067	27.017	35.966	44.519	525	
613	6.142	34.457	3.96	57.1	37.2	2.10	30.0	0.00	6.095	27.112	36.107	44.703	616	
875	4.554	34.473	3.63	50.4	63.6	2.36	33.9	0.00	4.508	27.313	36.386	45.0565	881	
997	3.895	34.487	3.63	49.6	75.2	2.43	34.9	0.00	3.820	27.397	36.505	45.208	1004	

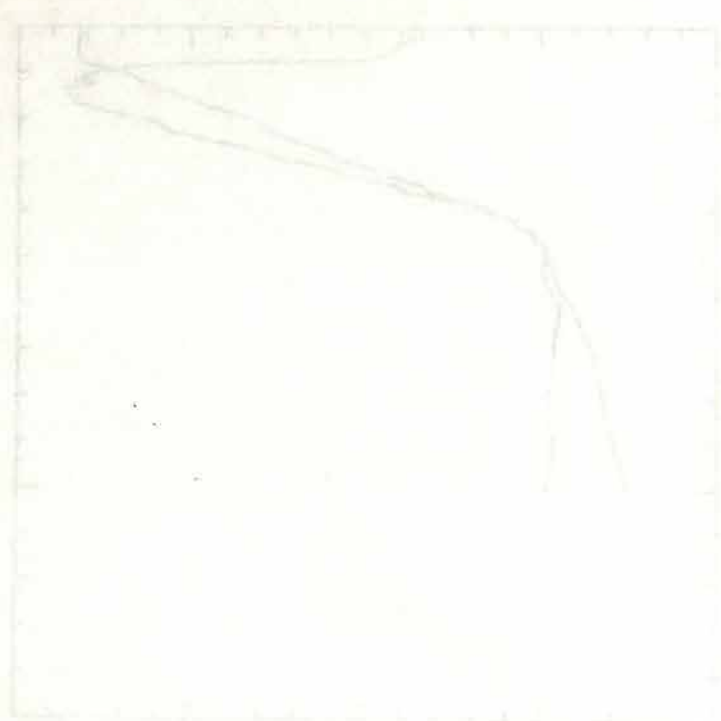
KOROLEV Sta. 52



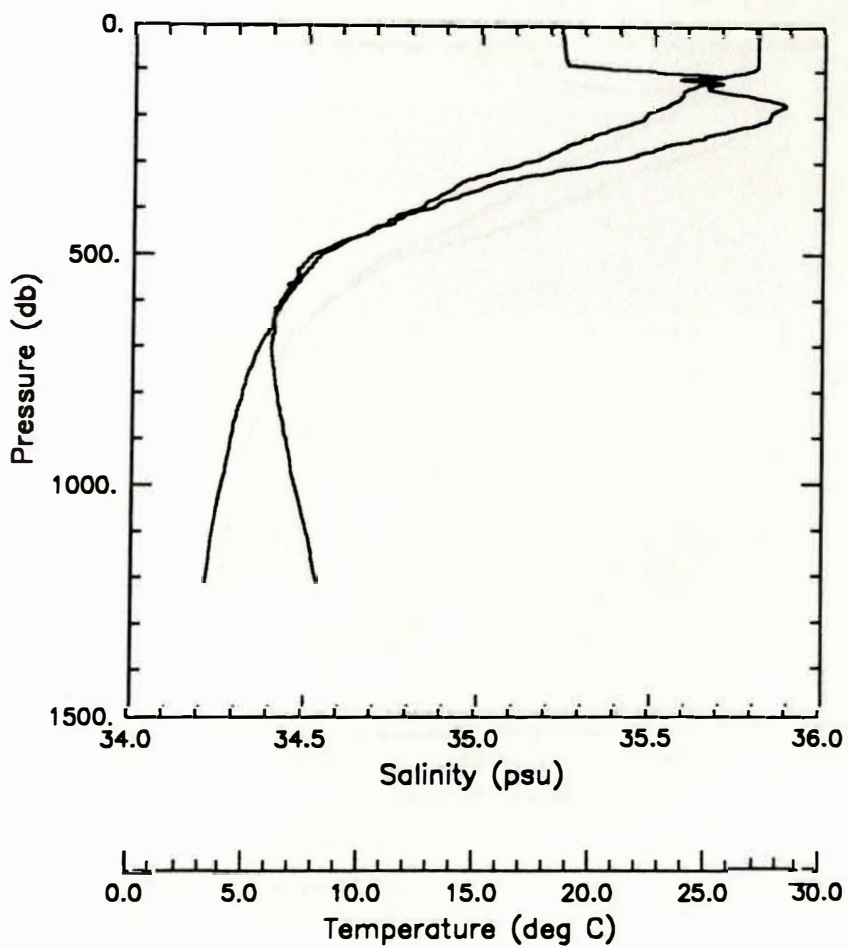
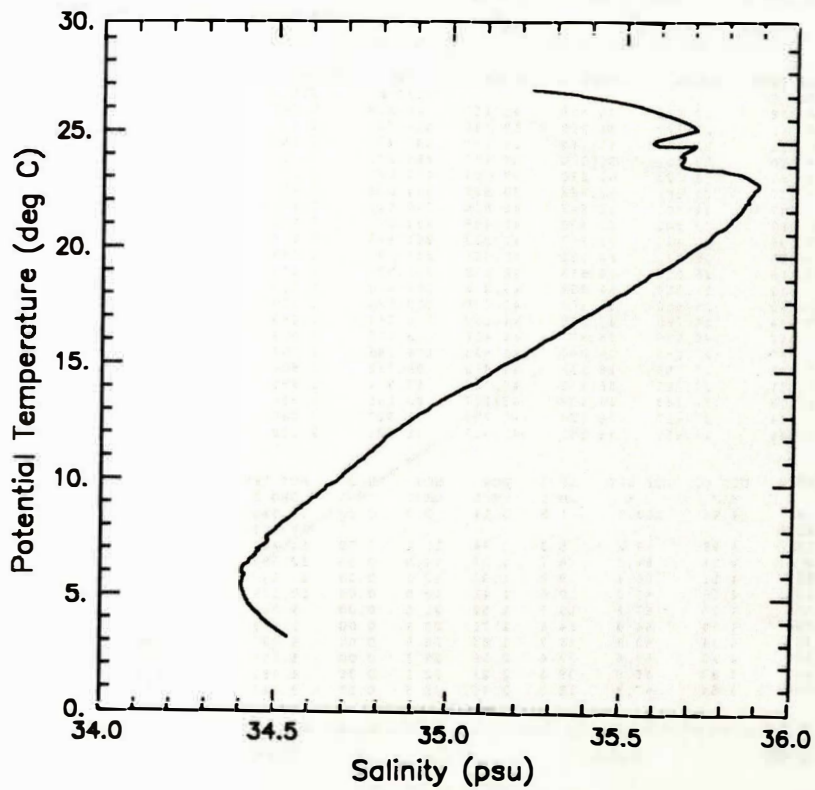
AKADEMIK KOROLEV SAGA II STATION 53
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 15 15.3S 169 59 8E 6/ 2/87 642 3460

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	7.121	35.231	7.121	27.584	36.519	45.059	49.422	0.000		1479.4	0
20	27.135	35.212	27.131	22.853	31.107	39.069	500.503	0.100		1540.0	19
40	27.114	35.235	27.105	22.863	31.117	39.020	500.504	0.200	1.030	1540.3	39
60	27.111	35.237	27.097	22.867	31.122	39.024	501.028	0.300	1.430	1540.6	59
80	27.106	35.244	27.087	22.875	31.130	39.033	501.197	0.401	5.490	1540.9	79
100	26.520	35.503	26.498	23.258	31.524	39.438	465.534	0.498	9.090	1540.2	99
150	23.775	35.764	23.744	24.298	32.631	40.609	369.328	0.700	6.300	1534.7	149
200	22.115	35.843	22.075	24.839	33.217	41.237	313.675	0.871	5.560	1531.4	199
250	19.412	35.607	19.366	25.392	33.854	41.952	267.224	1.017	5.410	1524.7	249
300	16.893	35.340	16.844	25.813	34.360	42.538	228.092	1.141	5.640	1517.9	299
350	13.991	35.021	13.940	26.216	34.871	43.149	199.746	1.244	4.000	1509.3	348
400	12.255	34.846	12.202	26.431	35.154	43.496	169.616	1.334	4.250	1504.1	398
450	10.147	34.683	10.093	26.689	35.500	43.925	144.658	1.412	3.890	1497.4	448
500	8.175	34.520	8.123	26.879	35.779	44.286	125.740	1.479	2.970	1490.9	498
600	6.580	34.430	6.525	27.034	36.009	44.587	110.820	1.597	2.090	1486.2	597
700	5.553	34.405	5.493	27.145	36.170	44.795	100.206	1.702	2.050	1483.7	696
800	4.831	34.422	4.767	27.244	36.304	44.963	90.895	1.797	1.650	1482.4	795
900	4.338	34.448	4.268	27.319	36.405	45.086	83.875	1.885	1.530	1482.1	894
1000	3.954	34.475	3.979	27.381	36.486	45.186	78.176	1.966	1.650	1482.2	993
1100	3.583	34.509	3.502	27.446	36.570	45.288	72.024	2.041	1.500	1482.3	1092
1206	3.304	34.538	3.217	27.496	36.635	45.367	67.374	2.115		1483.0	1197

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
7	27.107	35.235							27.105	22.863	31.117	39.020	7
305	16.441	35.307							16.422	25.887	34.449	42.640	306
354	13.634	34.988							13.590	26.264	34.932	43.222	356
403	11.616	34.812							11.573	26.524	35.273	43.639	405
428	10.699	34.727							10.657	26.625	35.412	43.814	430
451	9.732	34.650							9.691	26.731	35.560	44.001	453
478	8.865	34.582							8.823	26.819	35.687	44.164	481
522	7.909	34.509							7.862	26.909	35.820	44.339	525
575	6.824	34.435							6.775	27.005	35.968	44.534	578
773	5.005	34.421							4.955	27.221	36.273	44.922	778
900	4.330	34.450D							4.262	27.321	36.4072	45.0892	906
1195	3.304	34.535							3.233	27.492	36.630	45.351	1204



KOROLEV Sta. 53

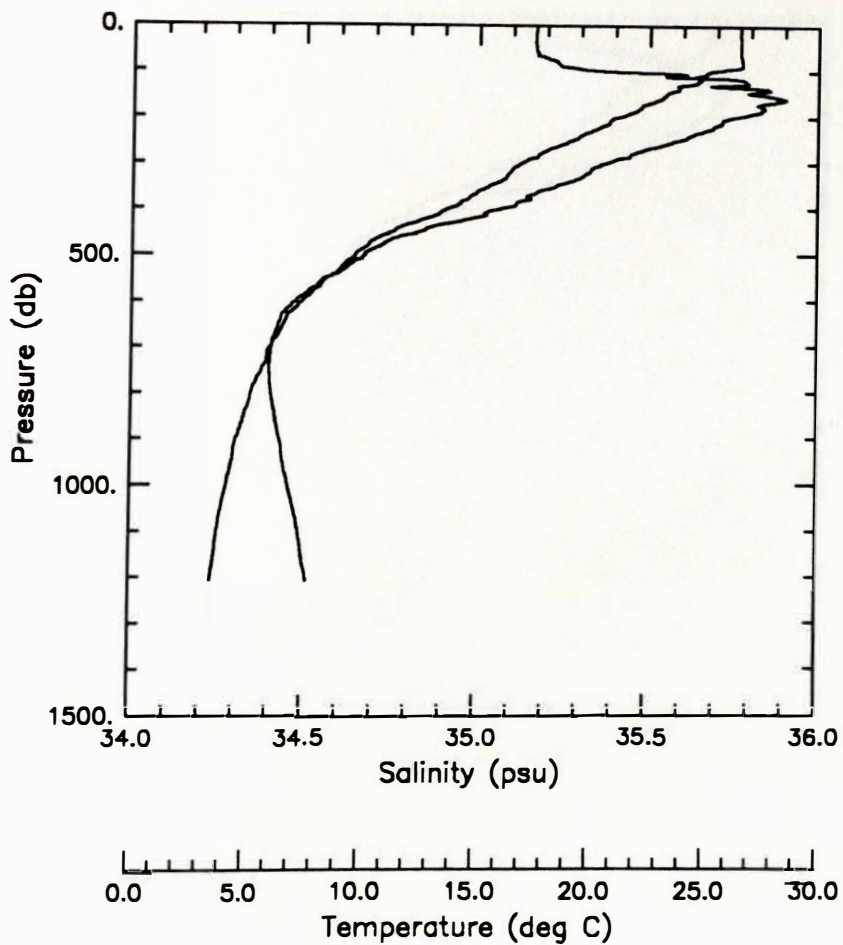
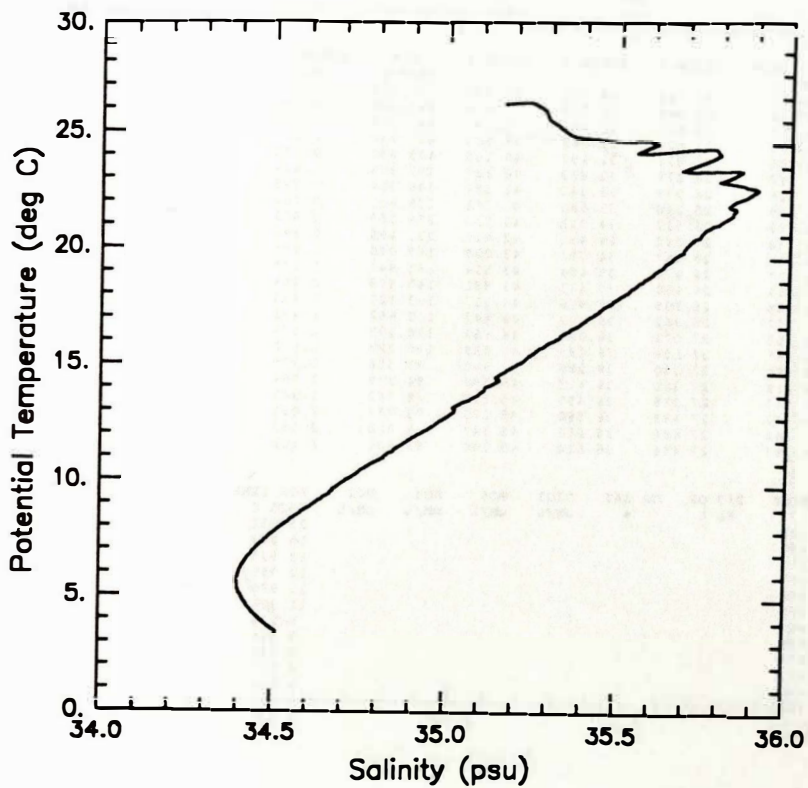


AKADEMIK KOROLEV SAGA II STATION 54
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 17 30.0S 179 0.0E 6/ 2/87 1930 2901

CTD DATA		SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
PRESS	TEMP										
DB	DEG C		DEG C				CL/TCN	DYN M	FREQ CPH	M/S	M
0	6.478	35.167	6.478	27.622	36.588	45.157	45.838	0.200		1476.8	0
20	26.315	35.164	26.511	22.999	31.268	39.185	486.535	0.297		1538.5	19
40	26.520	35.165	26.511	22.999	31.268	39.195	487.459	0.195	0.490	1538.8	39
60	26.534	35.171	26.520	23.001	31.270	39.187	488.201	0.292	1.892	1539.2	59
80	26.601	35.226	26.583	23.023	31.290	39.204	487.063	0.390	6.389	1539.7	79
100	25.278	35.426	25.257	23.587	31.885	39.828	434.038	0.483	9.160	1537.2	99
150	23.278	35.840	23.247	24.501	32.947	40.836	348.944	0.676	6.490	1533.6	149
200	21.126	35.749	21.097	25.042	33.450	41.498	299.077	0.838	5.395	1528.7	199
250	19.144	35.588	19.099	25.445	33.917	42.023	261.975	0.978	5.250	1523.9	249
300	16.905	35.374	16.955	25.837	34.383	42.559	225.790	1.099	4.220	1517.9	299
350	15.474	35.228	15.419	26.056	34.653	42.878	205.936	1.208	4.259	1514.2	348
400	13.669	35.063	13.612	26.318	34.983	43.272	181.458	1.305	4.330	1509.1	398
450	11.817	34.826	11.860	26.612	35.377	43.758	152.996	1.388	3.933	1501.3	448
500	9.652	34.671	9.604	26.762	35.595	44.039	138.369	1.460	2.825	1496.4	497
600	7.417	34.475	7.357	26.955	35.390	44.431	119.405	1.589	2.610	1489.5	597
700	6.122	34.405	6.138	27.088	36.090	44.693	106.386	1.702	1.933	1485.6	696
800	5.205	34.405	5.138	27.189	36.231	44.872	96.732	1.804	1.795	1483.9	795
900	4.572	34.432	4.501	27.281	36.355	45.026	87.954	1.896	1.800	1483.1	894
1000	4.183	34.458	4.126	27.344	36.438	45.127	82.181	1.981	1.600	1483.1	993
1100	3.787	34.489	3.734	27.410	36.524	45.233	75.927	2.060	1.290	1483.2	1092
1200	3.535	34.514	3.446	27.455	36.582	45.303	71.921	2.138		1483.9	1197

WISKIN BOTTLE DATA		SALINITY	DIS O2	O2 SAT	SI03	PC4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
CAST	DEPTH												
	M	DEG C	ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
	5	26.547	35.192	4.64	100.9	1.9	0.14	0.00	26.545	23.009	31.277	39.193	5
	332	16.055	35.2890						16.007	25.969	34.5462	42.750	334
	381	14.480	35.160	3.93	69.2	5.3	2.94	11.1	14.427	26.221	34.955	42.114	383
	426	12.452	34.954	4.04	67.3	6.7	1.15	14.6	12.397	26.477	35.191	43.524	428
	450	11.191	34.825	4.11	66.6	8.2	1.30	17.0	11.137	26.615	35.381	43.763	452
	475	10.243	34.728	4.16	66.0	10.0	1.41	19.0	10.189	26.708	35.514	43.934	477
	525	9.115	34.625	4.35	67.3	10.5	1.52	21.0	9.062	26.815	35.671	44.138	528
	567	8.012	34.526	4.30	64.8	14.1	1.71	23.9	7.958	26.908	35.815	44.329	570
	622	6.981	34.447	4.34	63.9	18.3	1.85	26.5	6.926	26.994	35.949	44.509	625
	722	5.864	34.405	4.23	60.6	27.4	2.06	29.7	5.795	27.108	36.119	44.730	726
	824	5.057	34.413	3.97	55.8	39.8	2.23	32.1	4.982	27.212	36.262	44.911	829
	1196	3.536	34.516	3.54	47.9	78.5	2.45	35.5	3.447	27.457	36.584	45.304	1205

KOROLEV Sta. 54

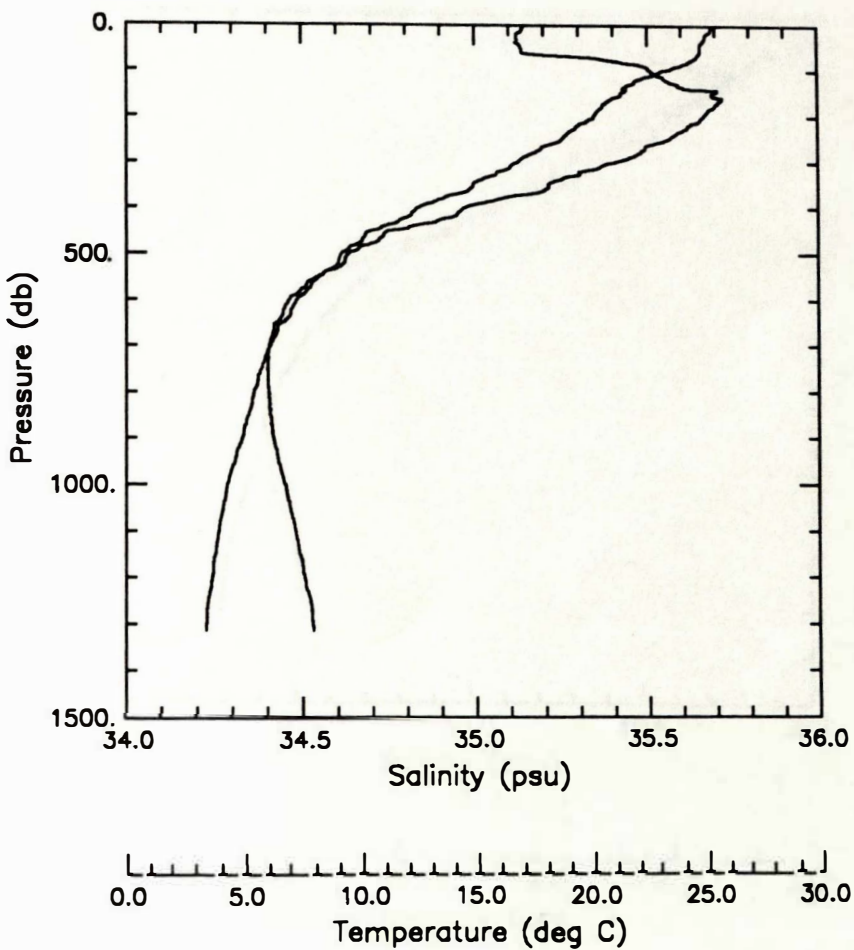
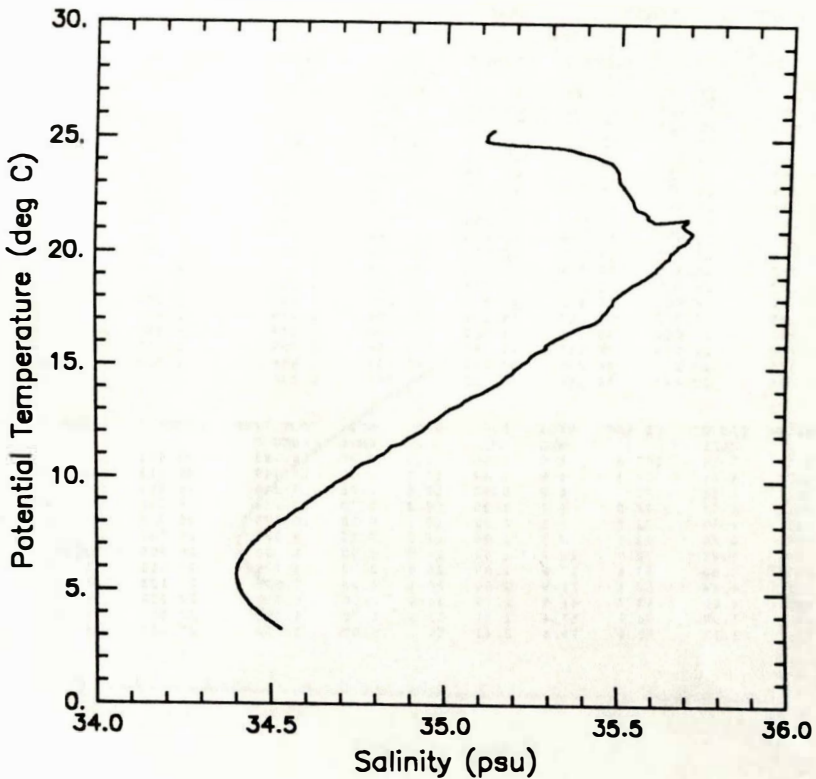


AKADEMIK KOROLEV SAGA II STATION 55
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 18 54.9S 170 0.6E 6/ 3/87 GMT 642 M 1605

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	5.331	35.142	5.331	27.749	36.771	45.392	33.812	0.000		1472.2	0
20	25.115	35.125	25.111	23.404	31.709	39.659	447.929	0.090		1535.1	19
40	24.991	35.126	24.973	23.477	31.788	39.744	441.772	0.179	3.480	1534.9	39
60	24.796	35.158	24.783	23.529	31.842	39.900	437.730	0.267	5.620	1535.1	59
80	24.303	35.417	24.286	23.874	32.197	40.165	405.650	0.352	7.570	1534.5	79
100	23.167	35.509	23.147	24.279	32.632	40.627	367.806	0.429	7.650	1532.1	99
150	21.338	35.694	21.309	24.939	33.342	41.384	306.904	0.595	5.440	1528.4	149
200	20.126	35.664	20.089	25.246	33.685	41.761	279.401	0.740	4.110	1525.9	199
250	19.726	35.554	18.682	25.527	34.011	42.130	254.155	0.872	4.470	1522.7	249
300	16.801	35.400	16.752	25.882	34.431	42.610	221.496	0.990	4.070	1517.7	299
350	14.919	35.213	14.866	26.167	34.784	43.028	195.090	1.095	4.220	1512.4	348
400	12.539	34.971	12.485	26.474	35.184	43.514	165.847	1.135	3.990	1505.2	398
450	10.558	34.763	10.503	26.680	35.473	43.981	145.875	1.264	3.640	1498.9	448
500	9.239	34.637	9.183	26.805	35.656	44.117	133.927	1.334	2.470	1494.8	497
600	7.916	34.465	7.257	26.962	35.902	44.447	119.667	1.451	2.240	1489.1	597
700	6.165	34.408	6.102	27.072	36.067	44.664	108.109	1.574	1.900	1486.2	696
800	5.453	34.406	5.395	27.159	36.189	44.819	100.026	1.678	1.610	1484.9	795
900	4.938	34.418	4.864	27.230	36.286	44.940	93.556	1.775	1.770	1484.5	894
1000	4.297	34.451	4.219	27.326	36.415	45.099	84.099	1.864	1.660	1483.5	993
1100	3.931	34.480	3.847	27.388	36.495	45.197	78.362	1.945	1.400	1483.8	1092
1200	3.646	34.506	3.557	27.438	36.560	45.275	73.757	2.021	1.290	1484.3	1191
1300	3.400	34.530	3.304	27.481	36.616	45.343	69.808	2.092	1.000	1484.9	1290
1314	3.384	34.531	3.287	27.484	36.620	45.348	69.621	2.102		1485.1	1304

MISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST #	DEPTH M												
	5	25.232	35.118						25.231	23.362	31.664	39.611	5
	349	15.114	35.236						15.063	26.141	34.751	42.998	351
	372	13.991	35.131						13.935	26.303	34.956	43.232	374
	399	13.045	35.020						12.985	26.412	35.102	43.413	401
	437	12.030	34.940						11.970	26.549	35.280	43.629	439
	453	11.387	34.875						11.326	26.619	35.377	43.751	455
	504	9.336	34.650						9.276	26.800	35.646	44.104	507
	572	7.567	34.493						7.510	26.948	35.875	44.409	575
	740	5.787	34.403						5.733	27.115	36.128	44.742	744
	870	4.928	34.423						4.869	27.233	36.299	44.942	876
	976	4.410	34.442						4.346	27.306	36.388	45.066	983
	1300	3.385	34.529						3.298	27.481	36.616	45.344	1310

KOROLEV Sta. 55



AKADEMIK KOROLEV SAGA II STATION 56
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 21 0 05 163 57 1E 6/ 3/87 2000 M
 1694

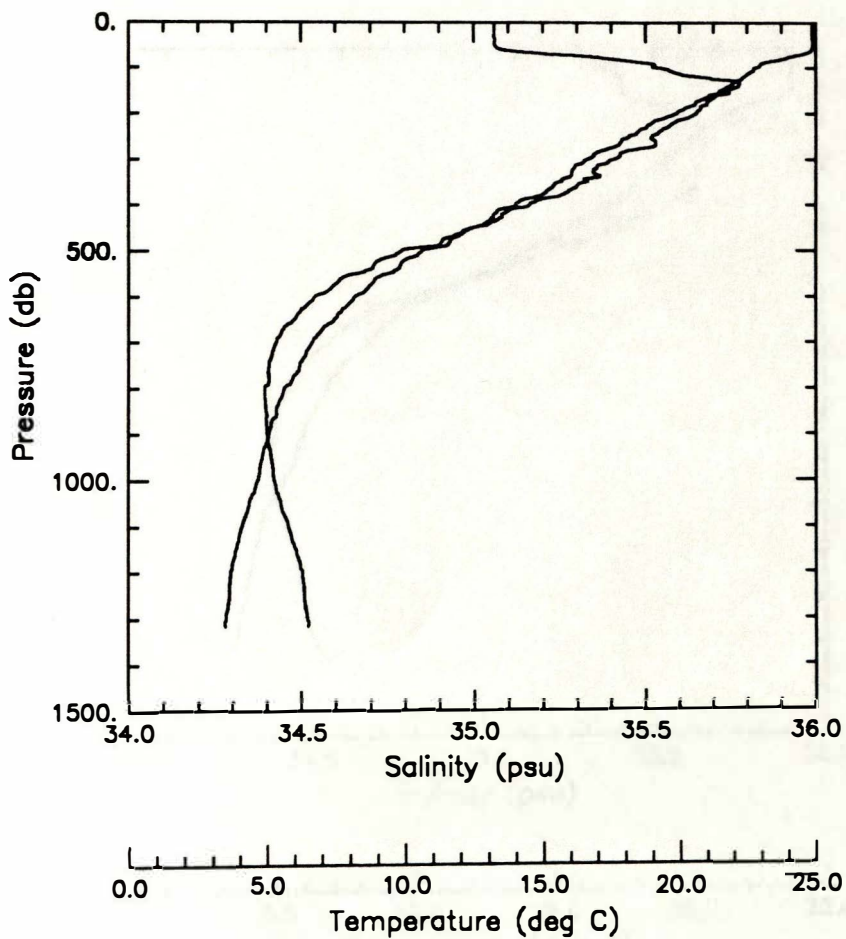
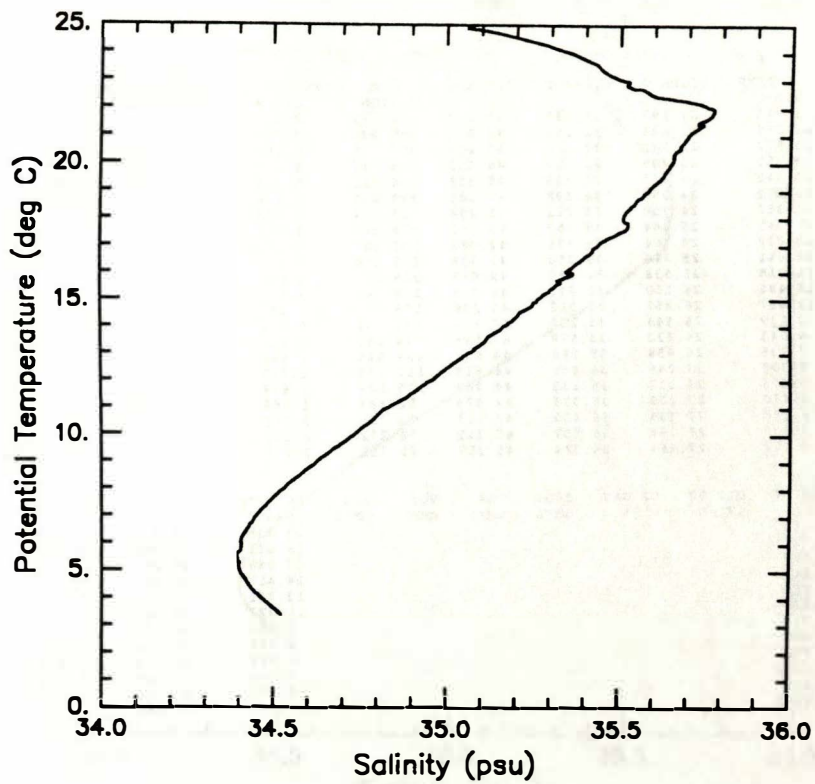
STD DATA

PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH
DB	DEG C		DEG C				CL/TON	DYN M	FREQ CPH	M/S	M
0	4.857	35.059	4.957	27.739	36.786	45.430	34.740	0.200		1470.2	0
20	24.866	35.059	24.862	23.429	31.741	39.599	445.404	0.099		1534.5	19
40	24.877	35.061	24.363	23.429	31.741	39.698	445.342	0.179	2.470	1534.8	39
60	24.811	35.298	24.799	23.478	31.791	39.750	442.554	0.267	6.750	1535.0	59
80	23.735	35.400	23.718	24.029	32.368	40.350	390.793	0.351	8.570	1533.1	79
100	22.802	35.545	22.782	24.412	32.774	40.778	355.124	0.425	6.890	1531.2	99
150	21.499	35.741	21.469	24.931	33.328	41.365	307.673	0.590	4.990	1528.9	149
200	19.826	35.645	19.789	25.311	33.759	41.944	273.143	0.735	5.020	1525.0	199
250	18.148	35.521	18.105	25.647	34.150	42.286	242.593	0.863	4.390	1520.9	249
300	16.633	35.405	16.584	25.924	34.479	42.564	217.366	0.977	3.740	1517.2	299
350	15.568	35.317	15.514	26.103	34.696	42.917	201.504	1.082	3.490	1514.5	348
400	13.945	35.155	13.887	26.331	34.986	43.263	180.386	1.178	4.040	1510.1	398
450	12.448	34.996	12.387	26.511	35.225	43.558	163.573	1.264	3.460	1505.8	448
500	10.683	34.795	10.622	26.694	35.472	43.874	146.855	1.342	3.580	1500.3	497
550	8.220	34.543	8.158	26.892	35.789	44.295	126.484	1.478	2.400	1492.5	597
700	6.652	34.427	6.587	27.024	35.996	44.571	113.432	1.598	1.950	1488.1	695
900	5.658	34.395	5.588	27.126	36.147	44.767	103.489	1.707	2.000	1485.8	795
950	5.079	34.401	5.005	27.200	36.250	44.897	96.607	1.806	1.500	1485.1	894
1116	3.486	34.520	3.388	27.466	36.596	45.319	71.669	2.156		1485.5	1305

NISKIN BOTTLE DATA

CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PO4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS
M	DEPTH	DEG C		ML/L	%	UM/L	UM/L	UM/L	UM/L	DEG C				DB
5	24.784	35.071	5.11	107.8	1.8	0.05	0.1	0.00	24.783	23.463	31.777	39.736	5	
380	14.050	35.147	4.34	74.8	4.8	0.88	10.9	0.00	13.949	26.312	34.964	43.240	382	
427	13.297	35.093	4.34	73.7	4.8	0.92	11.6	0.00	13.244	26.416	35.095	43.396	429	
483	10.984	34.841	4.71	76.0	5.0	1.20	16.2	0.00	10.934	26.664	35.438	43.323	486	
504	10.328	34.748	4.55	72.3	7.1	1.32	18.1	0.00	10.275	26.708	35.511	43.927	507	
542	9.558	34.656	4.64	72.5	7.7	1.38	19.2	0.00	9.506	26.767	35.603	44.052	545	
608	8.153	34.554	4.63	70.0	11.9	1.62	22.8	0.00	8.100	26.929	35.809	44.317	611	
689	6.830	34.446	4.60	67.4	17.6	1.83	25.9	0.00	6.776	27.013	35.976	44.542	693	
782	5.689	34.397	4.44	63.3	26.9	2.04	29.3	0.00	5.625	27.123	36.142	44.761	787	
922	4.801	34.427	4.20	58.7	41.8	2.19	31.4	0.00	4.730	27.252	36.314	44.974	928	
1044	4.169	34.460	3.98	54.7	57.4	2.32	33.3	0.00	4.094	27.347	36.441	45.131	1051	
1300	3.491	34.523	3.73	50.4	79.4	2.42	34.7	0.00	3.394	27.467	36.597	45.320	1310	

KOROLEV Sta. 56

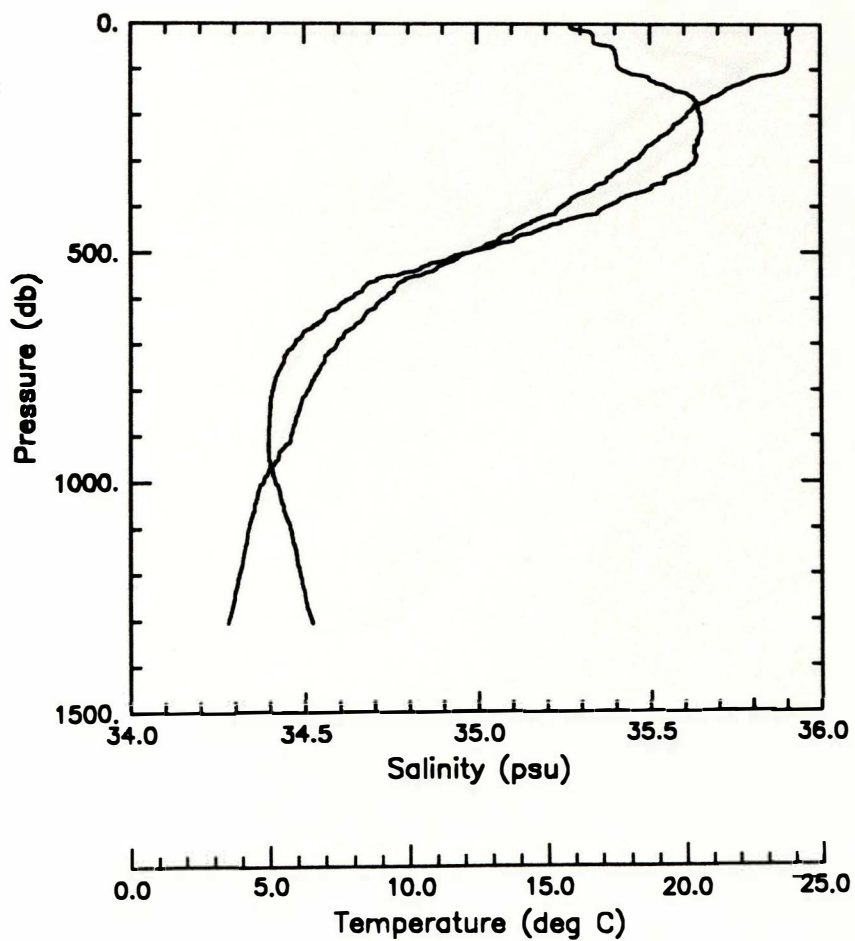
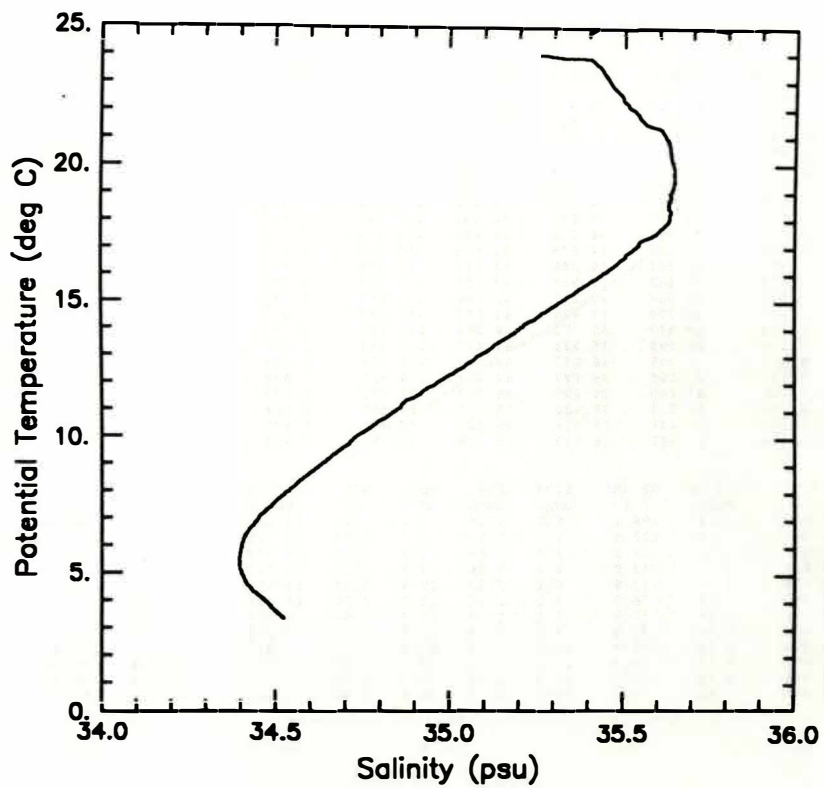


AKADEMIK KOROLEV SAGA II STATION 57
 LATITUDE LONGITUDE MO/DY/YR START TIME BOTTOM
 21 55 8S 175 0 0E 6/ 4/87 GMT 554 H 4357

CTD DATA			SIGMA 0			SIGMA 2			SIGMA 4			SVA		DYNAMIC HT		BRUNT-VAISALA		SOUND VEL		DEPTH	
PRESS	TEMP	SALINITY	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	SVA	DYNAMIC HT	BRUNT-VAISALA	SOUND VEL	DEPTH	CL/TON	DYN M	FREQ CPH	M/S	M					
DB	DEG C		DEG C																		
0	3.975	35.262	3.975	27.997	37.385	45.759	10.322	0.000		1466.9	0										
20	23.889	35.325	23.885	23.924	32.258	40.237	398.224	0.780		1532.4	19										
40	23.880	35.344	23.872	23.941	32.275	40.255	397.429	0.160	2.380	1532.7	39										
60	23.864	35.399	23.851	23.989	32.324	40.303	393.745	0.239	1.930	1533.0	59										
80	23.866	35.405	23.849	23.995	32.329	40.308	394.110	0.319	2.750	1533.4	79										
100	23.633	35.421	23.672	24.059	32.398	40.381	388.851	0.396	6.050	1533.3	99										
150	21.386	35.594	21.357	24.850	33.252	41.294	315.292	0.570	5.930	1528.4	149										
200	20.083	35.646	20.046	25.244	33.685	41.762	279.560	0.717	4.000	1525.7	199										
250	19.083	35.642	19.038	25.504	33.976	42.082	256.525	0.851	4.110	1523.8	249										
300	18.093	35.611	18.041	25.746	34.250	42.386	235.064	0.974	3.900	1521.8	299										
350	16.976	35.525	16.918	25.938	34.480	42.653	218.053	1.087	3.910	1519.2	348										
400	15.559	35.373	15.496	26.150	34.743	42.964	198.704	1.191	3.320	1515.5	398										
450	13.923	35.180	13.857	26.357	35.012	43.290	179.439	1.285	3.660	1510.9	448										
500	12.205	34.974	12.139	26.543	35.267	43.609	161.701	1.371	3.540	1505.7	497										
600	9.110	34.630	9.043	26.822	35.579	44.146	134.260	1.517	2.370	1496.0	597										
700	7.405	34.471	7.335	26.956	35.892	44.433	121.046	1.644	2.010	1491.1	696										
800	6.379	34.408	6.305	27.046	36.031	44.619	112.375	1.750	1.900	1488.7	795										
900	5.754	34.397	5.675	27.117	36.133	44.749	105.902	1.869	1.700	1487.8	894										
1000	4.751	34.416	4.670	27.250	36.315	44.978	92.388	1.968	2.210	1485.4	993										
1100	4.241	34.458	4.155	27.339	36.430	45.117	83.781	2.056	1.580	1485.0	1092										
1200	3.894	34.486	3.802	27.398	36.507	45.211	78.272	2.137	1.550	1485.3	1191										
1306	3.503	34.522	3.407	27.465	36.594	45.317	71.713	2.216		1495.4	1296										

NISKIN BOTTLE DATA		SALINITY		DIS O2		O2 SAT		SIO3		PC4		NO3		NO2		POT TEMP		SIGMA 0		SIGMA 2		SIGMA 4		PRESS	
CAST	DEPTH	TEMP	SALINITY	DIS O2	O2 SAT	SIO3	PC4	NO3	NO2	POT TEMP	SIGMA 0	SIGMA 2	SIGMA 4	PRESS											
M	DEG C	ML/L	μM/L	μM/L	μM/L	μM/L	μM/L	DEG C	DB																
4	23.936	35.333	23.935	23.915	32.248	40.225	4																		
351	16.746	35.507	16.683	25.980	34.530	42.710	353																		
414	15.132	35.327	15.066	26.210	34.819	43.055	416																		
438	14.488	35.245	14.415	25.289	34.922	43.181	440																		
482	12.791	35.059	12.721	26.495	35.195	43.515	484																		
522	11.296	34.873	11.227	26.636	35.397	43.776	525																		
551	9.961	34.718	9.889	26.751	35.570	44.003	554																		
599	8.839	34.606	8.763	26.848	35.717	44.197	602																		
670	7.622	34.494	7.542	26.944	35.870	44.403	674																		
893	5.726	34.398D	5.644	27.122	36.139	44.757	899																		
962	5.081	34.401	4.992	27.201	36.251	44.899	968																		
1288	3.513	34.521D	3.416	27.464	36.592	45.315	1298																		

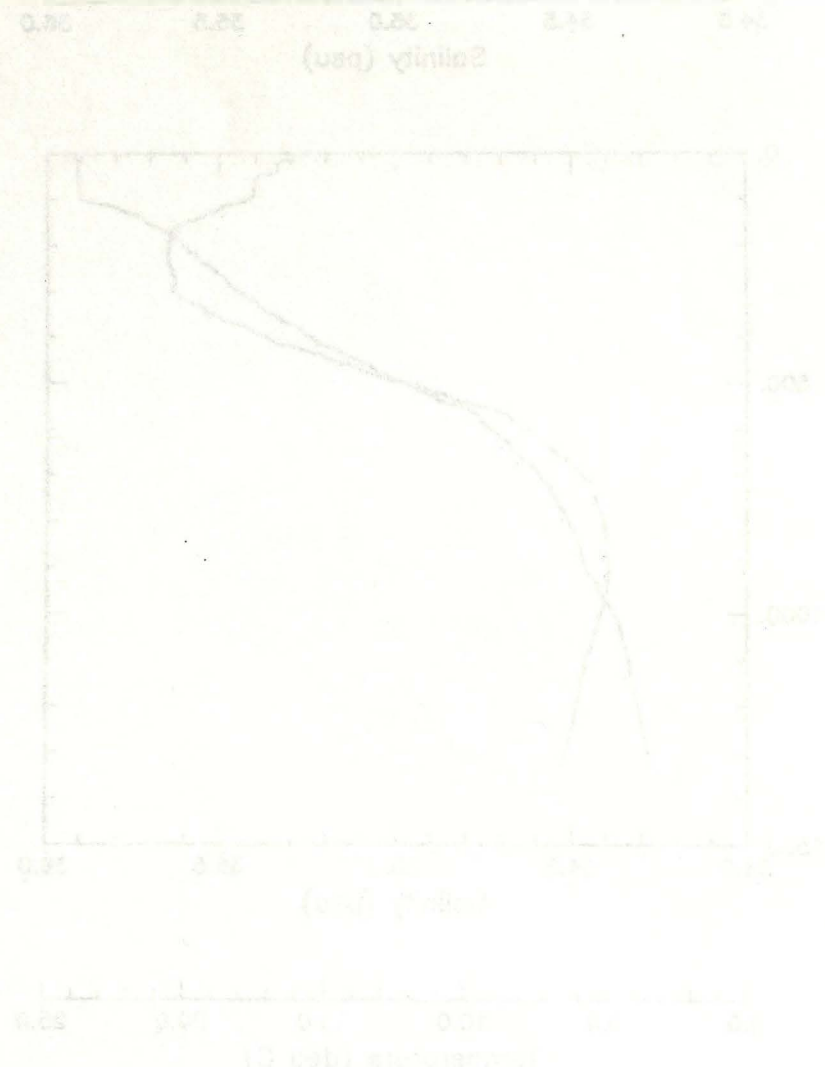
KOROLEV Sta. 57



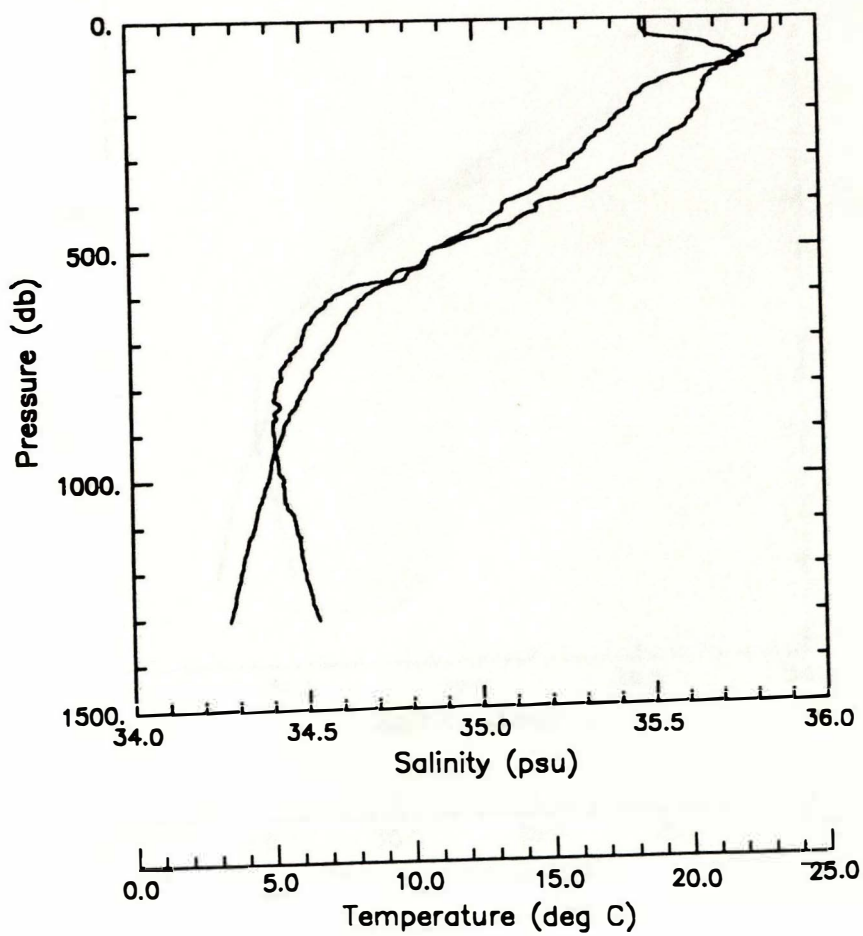
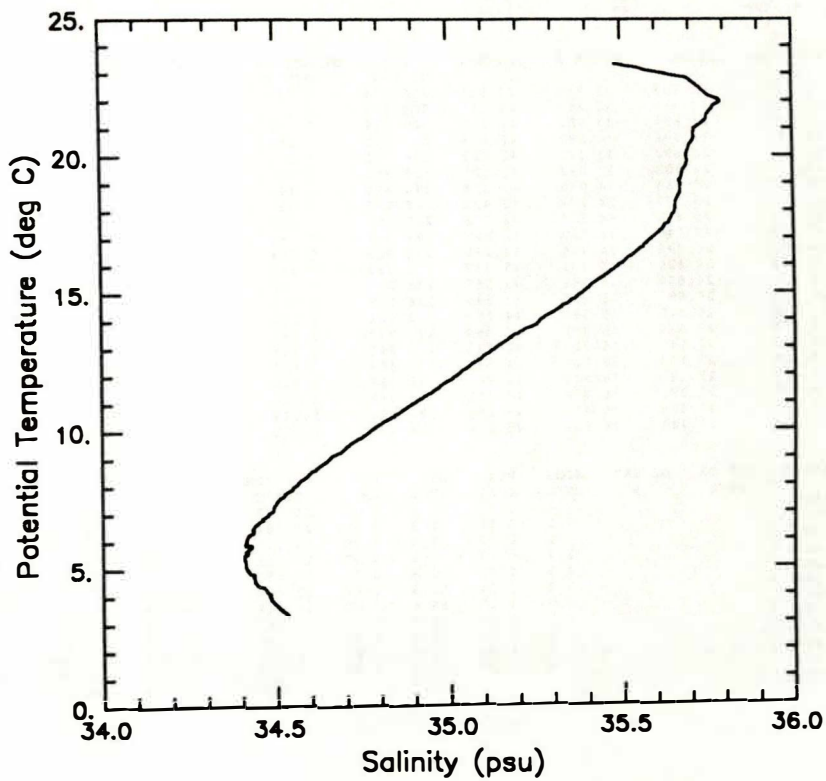
AKADEMIK KOROLEV SAGA II STATION 58
 LATITUDE LONGITUDE MO/DY/YR START TIME GMT BOTTOM M
 24 41 05 170 0 0E 6/ 4/87 1942 1790

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	3.351	35.485	3.351	29.239	37.355	46.066	-12.531	0.000		1464.5	0
20	23.361	35.485	23.357	24.200	32.547	40.537	371.881	0.074		1531.2	19
40	23.238	35.536	23.230	24.275	32.625	40.613	365.576	0.148	5.990	1531.3	39
60	22.843	35.686	22.831	24.504	32.864	40.865	344.586	0.219	5.970	1530.8	59
80	22.164	35.764	22.148	24.758	33.136	41.154	321.226	0.296	5.750	1529.4	79
100	21.577	35.755	21.558	24.917	33.311	41.346	306.920	0.348	6.180	1528.2	99
150	18.745	35.667	18.719	25.604	34.086	42.202	243.054	0.484	5.010	1521.2	149
200	17.973	35.648	17.938	25.785	34.292	42.432	227.541	0.601	3.350	1519.8	199
250	16.979	35.578	16.937	25.974	34.515	42.686	211.074	0.711	3.320	1517.6	249
300	16.138	35.493	16.090	26.107	34.678	42.878	199.796	0.813	2.920	1515.7	298
350	15.017	35.372	14.963	26.268	34.880	43.118	185.588	0.910	3.200	1512.9	348
400	13.596	35.192	13.539	26.433	35.099	43.389	170.567	1.000	3.030	1509.0	398
450	12.678	35.083	12.617	26.534	35.237	43.561	162.663	1.083	3.340	1506.6	448
500	10.971	34.881	10.909	26.700	35.474	43.865	145.665	1.160	2.660	1501.4	497
600	8.488	34.589	8.424	26.897	35.772	44.266	127.266	1.298	2.540	1493.7	596
700	7.283	34.493	7.214	26.989	35.931	44.477	117.593	1.420	1.940	1490.5	696
800	6.279	34.419	6.205	27.067	36.057	44.649	110.209	1.534	1.950	1488.1	795
900	5.431	34.409	5.354	27.166	36.197	44.829	100.615	1.639	1.670	1486.5	894
1000	4.897	34.435	4.814	27.249	36.307	44.963	92.796	1.735	1.750	1486.0	993
1100	4.369	34.470	4.282	27.335	36.420	45.100	84.516	1.824	1.700	1485.6	1092
1200	3.876	34.494	3.784	27.406	36.516	45.220	77.451	1.905	1.470	1485.2	1191
1306	3.444	34.534	3.348	27.481	36.613	45.338	70.080	1.983		1485.2	1296

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 μM/L	PO4 μM/L	NO3 μM/L	NO2 μM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB	
CAST 1	DEPTH M													
	5	23.394	35.467D	5.14	106.1	1.0	0.36	0.2	0.00	23.393	24.175	32.522	40.511	5
	85	22.100	35.750	5.00	100.9	1.0	0.10	0.2	0.04	22.029	24.781	33.162	41.194	85
	255	16.747	35.558	4.72	86.1	2.6	0.54	5.9	0.01	16.678	26.020	34.570	42.750	256
	325	15.602	35.434	4.60	82.0	2.2	0.66	7.9	0.01	15.533	26.189	34.780	42.998	326
	381	14.069	35.268	4.51	77.8	4.1	0.83	10.4	0.00	13.998	26.395	35.044	43.316	383
	471	11.548	34.955	4.56	74.5	6.0	1.15	15.7	0.00	11.480	26.653	35.403	43.770	473
	570	9.638	34.720	4.59	71.9	8.1	1.38	19.3	0.00	9.574	26.805	35.638	44.083	573
	621	8.336	34.574	4.86	73.8	9.3	1.55	21.9	0.00	8.272	26.898	35.791	44.291	624
	720	7.002	34.459	4.85	67.4	14.2	1.74	25.1	0.00	6.937	27.001	35.956	44.515	724
	826	5.890	34.414	4.70	67.4	23.4	1.93	27.9	0.00	5.810	27.114	36.123	44.733	831
	943	5.121	34.411	4.44	62.5	36.4	2.12	30.5	0.00	5.040	27.204	36.251	44.897	949
	1295	3.440	34.530	3.90	52.7	79.4	2.38	34.3	0.00	3.344	27.478	36.610	45.336	1305



KOROLEV Sta. 58



AKADEMIK KOROLEV SAGA II
 LATITUDE LONGITUDE
 26 27 4S 170 0.6E

STATION 59
 MO/DY/YR
 6/ 5/87

START TIME
 GMT
 548

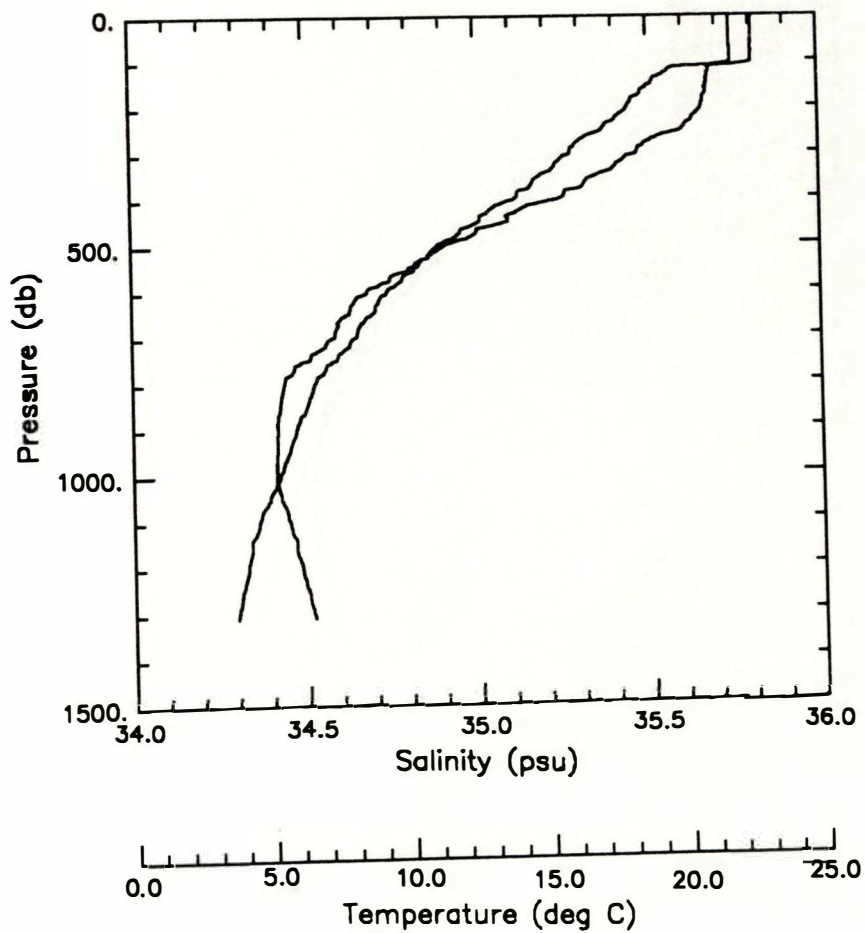
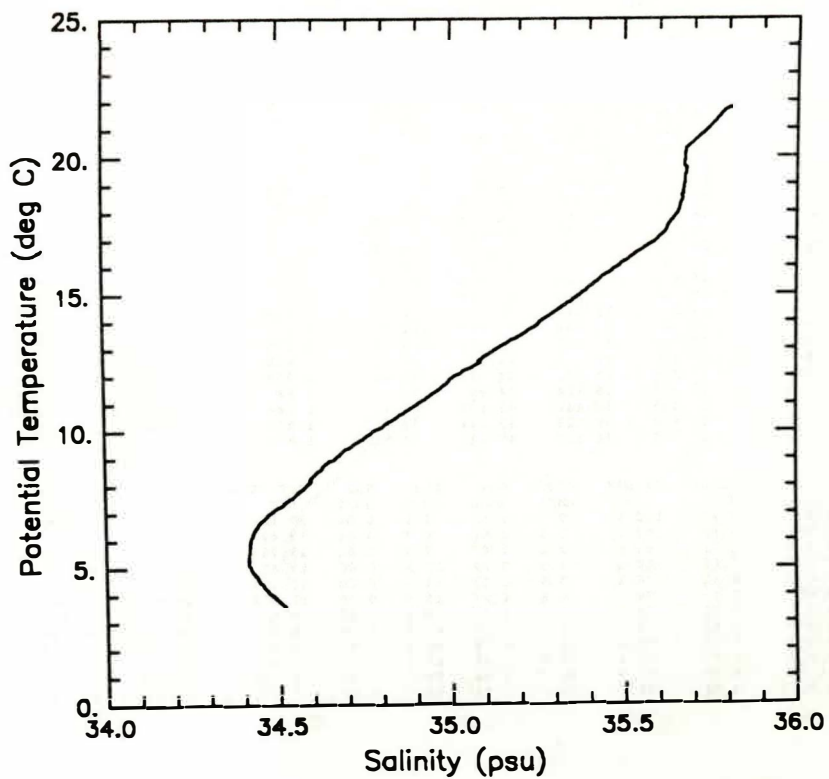
BOTTOM
 M
 3325

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	1.744	35.805	1.744	23.638	37.935	45.623	-50.274	0.000		1458.0	0
20	21.732	35.807	21.778	24.895	33.283	41.311	305.503	0.961		1527.5	19
40	21.798	35.807	21.780	24.894	33.282	41.309	305.526	0.122		1527.9	39
60	21.793	35.807	21.781	24.894	33.281	41.309	307.441	0.184		1528.2	59
80	21.799	35.807	21.794	24.893	33.281	41.308	308.351	0.245		1528.5	79
100	21.755	35.802	21.735	24.903	33.292	41.321	308.250	0.307	1.970	1528.8	99
150	18.833	35.672	19.906	25.586	34.065	42.178	244.915	0.440	6.030	1521.4	149
200	18.921	35.655	17.987	25.779	34.284	42.422	228.127	0.557	3.183	1519.9	199
250	17.052	35.594	17.310	25.969	34.507	42.676	211.581	0.667	3.730	1517.8	249
300	15.993	35.463	15.346	26.140	34.720	42.928	196.535	0.769	2.810	1515.0	298
350	14.804	35.348	14.751	26.296	34.916	43.161	182.828	0.864	3.170	1512.2	348
400	13.819	35.235	13.762	26.420	35.078	43.359	171.952	0.952	3.220	1509.9	398
450	12.537	35.079	12.475	26.559	35.268	43.597	159.207	1.034	2.850	1506.2	447
500	11.116	34.911	11.353	26.697	35.465	43.849	145.118	1.111	2.770	1501.9	497
550	9.232	34.680	9.171	26.841	35.691	44.153	132.664	1.251	2.220	1496.6	596
600	8.051	34.578	7.979	26.946	35.851	44.364	122.977	1.378	1.820	1493.7	696
650	6.503	34.439	6.528	27.041	36.016	44.593	113.241	1.496	1.630	1489.6	795
700	5.919	34.418	5.838	27.113	36.121	44.730	106.559	1.507	1.570	1488.5	894
750	5.300	34.413	5.215	27.185	36.224	44.861	99.727	1.710	1.830	1487.7	993
800	4.535	34.450	4.446	27.301	36.378	45.051	88.097	1.804	1.750	1486.2	1092
850	4.090	34.484	3.997	27.375	36.475	45.159	80.888	1.889	1.450	1486.1	1191
900	3.706	34.518	3.607	27.443	36.561	45.274	74.479	1.972		1485.1	1298

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 uM/L	PC4 uM/L	MO3 uM/L	NO2 uM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
4	21.721	35.802			2.4	0.05	0.2	0.00	21.720	24.907	33.297	41.325	4
107	21.801	35.809			2.1	0.05	0.2	0.00	21.784	24.895	33.282	41.310	107
258	16.753	35.360			3.1	0.52	5.5	0.00	16.711	26.014	34.563	42.741	259
329	15.362	35.419			3.7	0.67	7.5	0.00	15.311	26.227	34.826	43.052	331
405	13.911	35.242			4.9	0.95	10.6	0.00	13.855	26.405	35.050	43.337	407
461	12.433	35.059			6.3	1.04	13.5	0.00	12.369	26.564	35.278	43.611	464
505	11.121	34.909			7.0	1.19	16.4	0.00	11.049	26.696	35.465	43.849	508
579	9.515	34.714			8.7	1.38	19.6	0.00	9.443	26.822	35.661	44.111	583
666	8.315	34.589			11.6	1.55	22.1	0.00	8.238	26.915	35.809	44.310	670
773	6.935	34.465D			15.8	1.71	24.6	0.00	6.855	27.018	35.975	44.539	778
1015	5.058	34.418			37.9	2.12	30.7	0.00	4.989	27.215	36.255	44.913	1023
1290	3.723	34.516D							3.624	27.439	36.557	45.269	1301



KOROLEV Sta. 59



AKADEMIK KOROLEV SAGA II STATION 60
 LATITUDE LONGITUDE MO/DY/YR START TIME BCTTM
 28 53 55 170 1 5E 6/ 5/87 1942 M
 2914

CTD DATA		SALINITY	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	SVA CL/TON	DYNAMIC HT DYN M	BRUNT-VAISALA FREQ CPH	SOUND VEL M/S	DEPTH M
PRESS DB	TEMP DEG C										
0	0.102	35.833	0.102	28.774	38.064	46.938	-63.079	0.000		1450.7	0
20	20.079	35.832	20.074	25.378	33.816	41.890	259.620	0.052		1522.9	19
40	20.054	35.831	20.047	25.385	33.823	41.899	259.761	0.104	0.300	1523.2	39
60	20.051	35.831	20.040	25.386	33.825	41.901	260.425	0.156	0.960	1523.5	59
80	20.031	35.831	20.017	25.392	33.832	41.908	260.552	0.208	2.040	1523.9	79
100	19.842	35.816	19.824	25.432	33.877	41.959	257.664	0.260	4.040	1523.9	99
150	17.934	35.641	17.908	25.787	34.295	42.435	225.514	0.380	3.710	1518.9	149
200	17.033	35.580	17.000	25.961	34.500	42.669	210.565	0.488	3.160	1516.9	199
250	16.252	35.524	16.211	26.103	34.669	42.864	198.541	0.590	3.270	1515.3	248
300	15.075	35.399	15.030	26.274	34.884	43.119	183.409	0.686	2.960	1512.3	298
350	14.406	35.325	14.354	26.364	34.999	43.258	176.113	0.775	3.170	1510.9	348
400	12.689	35.117	12.635	26.557	35.259	43.582	158.118	0.858	2.920	1506.9	398
450	11.729	35.002	11.671	26.654	35.396	43.755	149.511	0.935	2.480	1503.3	447
500	10.752	34.890	10.691	26.746	35.529	43.928	141.102	1.007	2.390	1500.6	497
550	9.528	34.753	9.459	26.850	35.687	44.136	132.147	1.143	1.730	1497.7	546
700	8.149	34.615	8.076	26.960	35.861	44.368	121.821	1.270	1.430	1494.1	636
800	7.102	34.525	7.023	27.041	35.991	44.545	114.186	1.388	1.900	1491.6	795
900	6.239	34.490	6.156	27.130	36.121	44.715	105.716	1.498	1.320	1489.8	894
1000	5.541	34.475	5.454	27.206	36.232	44.857	98.407	1.599	0.950	1488.7	993
1100	5.030	34.470	4.938	27.262	36.314	44.963	93.071	1.695	1.800	1488.3	1092
1200	4.419	34.493	4.323	27.349	36.431	45.109	84.412	1.784	1.750	1487.5	1191
1300	3.943	34.515	3.842	27.416	36.523	45.224	77.615	1.864	1.420	1487.2	1290
1310	3.977	34.520	3.776	27.427	36.537	45.241	76.513	1.872		1487.1	1300

NISKIN BOTTLE DATA		SALINITY	DIS O2 ML/L	O2 SAT %	SIO3 UM/L	PO4 UM/L	NO3 UM/L	NO2 UM/L	POT TEMP DEG C	SIGMA 0	SIGMA 2	SIGMA 4	PRESS DB
CAST 1	DEPTH M												
6	20.168	35.827	5.27	102.9	0.7	0.11	0.1	0.01	20.167	25.350	33.784	41.957	6
255	15.839	35.484	4.89	87.7	2.0	0.61	6.9	0.01	15.822	26.162	34.742	42.950	256
290	15.327	35.436	4.71	83.5	2.2	0.67	7.8	0.01	15.287	26.245	34.845	43.072	281
358	13.905	35.288	4.66	80.2	3.9	0.82	10.2	0.00	13.857	26.441	35.094	43.371	360
425	12.172	35.048	4.61	76.4	5.9	1.08	14.3	0.00	12.118	26.604	35.328	43.670	427
476	11.391	34.961	4.54	74.0	6.6	1.17	15.9	0.00	11.332	26.685	35.441	43.814	479
552	9.977	34.814	4.55	71.8	9.6	1.37	18.9	0.00	9.917	26.821	35.638	44.068	555
641	8.738	34.669	4.61	70.7	12.3	1.53	21.6	0.00	8.675	26.911	35.784	44.266	645
759	7.372	34.543	4.65	69.1	18.1	1.74	24.4	0.00	7.306	27.016	35.953	44.495	764
857	6.425	34.502	4.50	65.4	26.2	1.89	27.0	0.00	6.353	27.114	36.096	44.680	873
1012	5.518	34.472	4.35	61.9	36.7	2.06	29.5	0.00	5.429	27.206	36.233	44.860	1020
1288	3.946	34.515	4.00	54.7	65.9	2.31	33.0	0.00	3.845	27.416	36.523	45.224	1299

KOROLEV Sta. 60

