

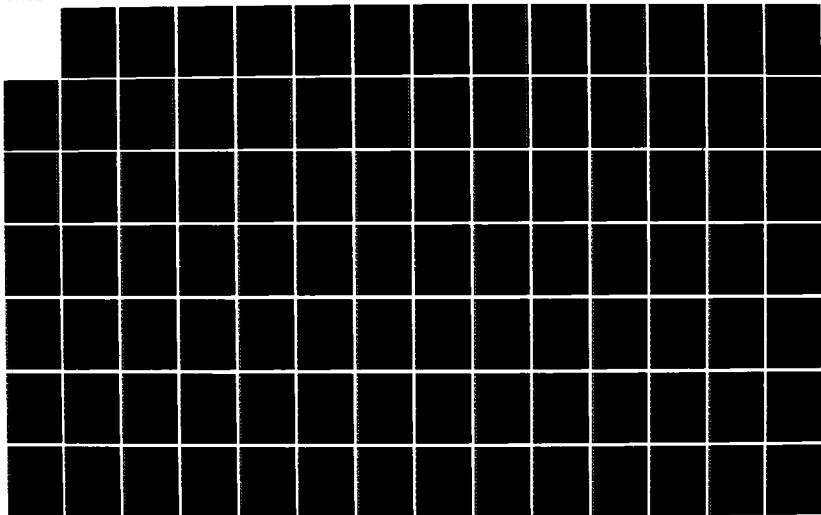
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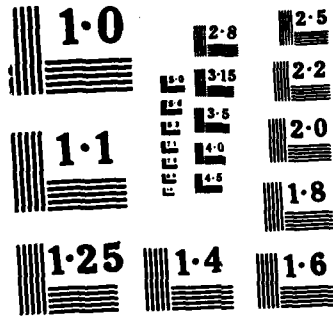
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MARGINAL ICE ZONE EXPERIMENT - 1984
PHYSICAL OCEANOGRAPHY REPORT:
USNS LYNCH and HELICOPTER-BASED STD DATA

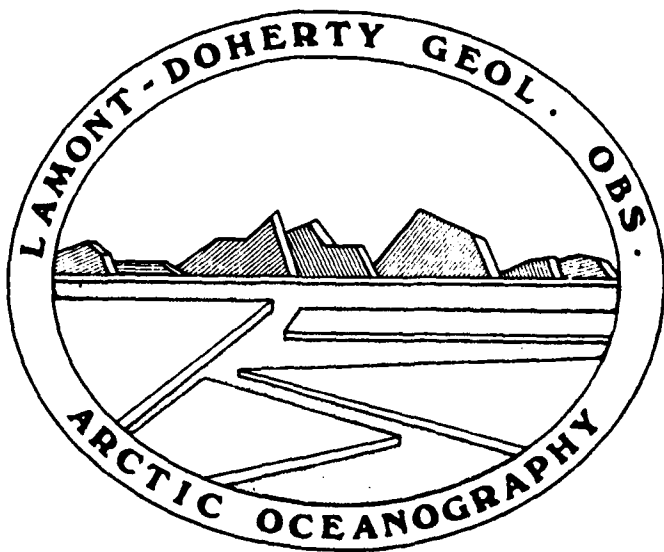
by T.O. Manley

TECHNICAL REPORT

LDGO - 85 - 7

Department of the Navy
Office of Naval Research
Contract N00014-84-C-0132

December 1985



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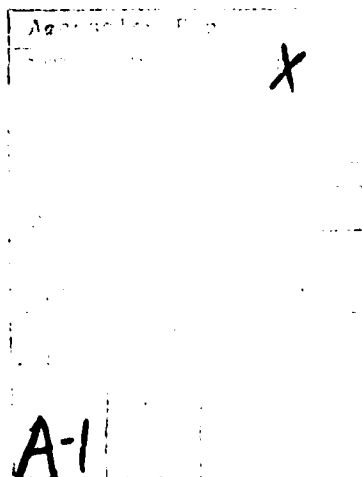
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Lamont-Doherty Geological Observatory
of Columbia University
Palisades, New York 10964-0190

December 1985

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ABSTRACT

During the summer of 1984, the Arctic Oceanography Department of Lamont-Geological Observatory acquired a total of 222 helicopter-based C/STD stations within the ice-covered region of the Fram Strait to a nominal depth of 500 m. This program was accomplished as part of an international experiment known as MIZEX East 1984. The two ships used in helicopter operations, the F/S Polarstern and the M/V Polarqueen.

The USNS Lynch was also used to obtain 26 CTD stations from two separate legs into the Fram Strait. The first leg primarily consisted of an open water transect of the strait at a latitude of 79°N. Stations were typically taken to within 10 m of the bottom and extended from the ice edge onto the shelf of Svalbard. The second leg was more acoustically oriented and confined to the southern region of the Yermak Plateau. During this leg, 11 stations to a nominal depth of 450 m were taken.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height, and sound velocity are given for each cast along with profiles of temperature, salinity and sigma-t.

This technical report outlines the acquisition and basic reduction techniques of these data.

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INTRODUCTION

The Fram Strait, located between Greenland and Spitzbergen, is a region of intense interaction between the ice-covered, cooler and less saline waters that exit the Arctic Ocean as the southward flowing East Greenland Current and the inflowing warmer and more saline water from the Atlantic which moves northward as the West Spitzbergen Current.

The transitional region between the open ocean and the more stable interior sea-ice can be loosely defined as the marginal ice zone (MIZ), however, the interpretation of this definition depends largely on the time and space scales over which specific processes occur. These processes can range from global climatic variations that operate over time and space scales from tens to thousands of years and millions of square kilometers, to more local dynamics of air-sea-ice interaction that last for a few days and are confined to regions of less than a hundred square kilometers. Because of the large reflective properties of sea ice to incoming solar radiation, the marginal ice zones can play an important role in local climate conditions, as well as climatological patterns of the world (Barry, 1983). For example, over the course of an average year, the difference between the minimum and maximum areal extent of sea ice for both the Arctic and Antarctic is roughly 10 million square kilometers or 2% of the earth's surface (Nazarov, 1963).

Unfortunately, these regions still remain poorly understood, and questions relating to the dominant or controlling forces that determine the position of the ice edge, associated feedback mechanisms, and the importance of mesoscale processes in the transfer of heat, salt, momentum, and biomass within the MIZ are only a few areas that need to be answered in these highly dynamic and specialized regions. As a result, two major scientific programs, known as the Marginal Ice Zone Experiments (MIZEX) East and West, were initi-

ated in the Arctic regions of the Fram Strait and the Bering Sea, respectively.

Mesoscale activity definitely plays an important role in the transfer of heat, salt, and momentum, across the frontal boundaries set up by these differing water masses.

Smith et al. (1985) have recently indicated that these processes may also be important in biomass exchange across the front. Based on satellite imagery of the open ocean near ice edge zones, mesoscale activity has been shown to be ubiquitous (Vinje; 1977a, 1977b). Unfortunately, these features have been rarely observed in close detail by hydrographic surveys in the open ocean area of the Fram Strait, and even fewer observations are recorded beneath the ice-covered regions of the Arctic Ocean and MIZ.

To help carry out these needed investigations over the open and ice-covered parts of the marginal ice zone, the Lamont group obtained C/STD data from the open water ship USNS Lynch, as well as from helicopters based on the Norwegian M/V Polarqueen and the West German icebreaker F/S Polarstern (Fig. 1). In many cases these helicopter surveys were closely coordinated with open water STD surveys.

During the time period from mid-May to mid-July, the Lamont group acquired a total of 248 CTD stations within this region. Twenty-six of these were open-water stations taken during two separate legs of the USNS Lynch which was equipped with a Neil Brown CTD system. The first leg was primarily used for mooring deployments, recoveries, and a CTD transect of the strait from the local ice-edge ($\sim 0^\circ$ longitude) to the shelf of Svalbard along a constant latitude of 79°N . The first 3 CTD stations were mooring-related and did not necessarily penetrate to the bottom, however, the remaining 12 transect stations extended to within 10 m of the bottom.

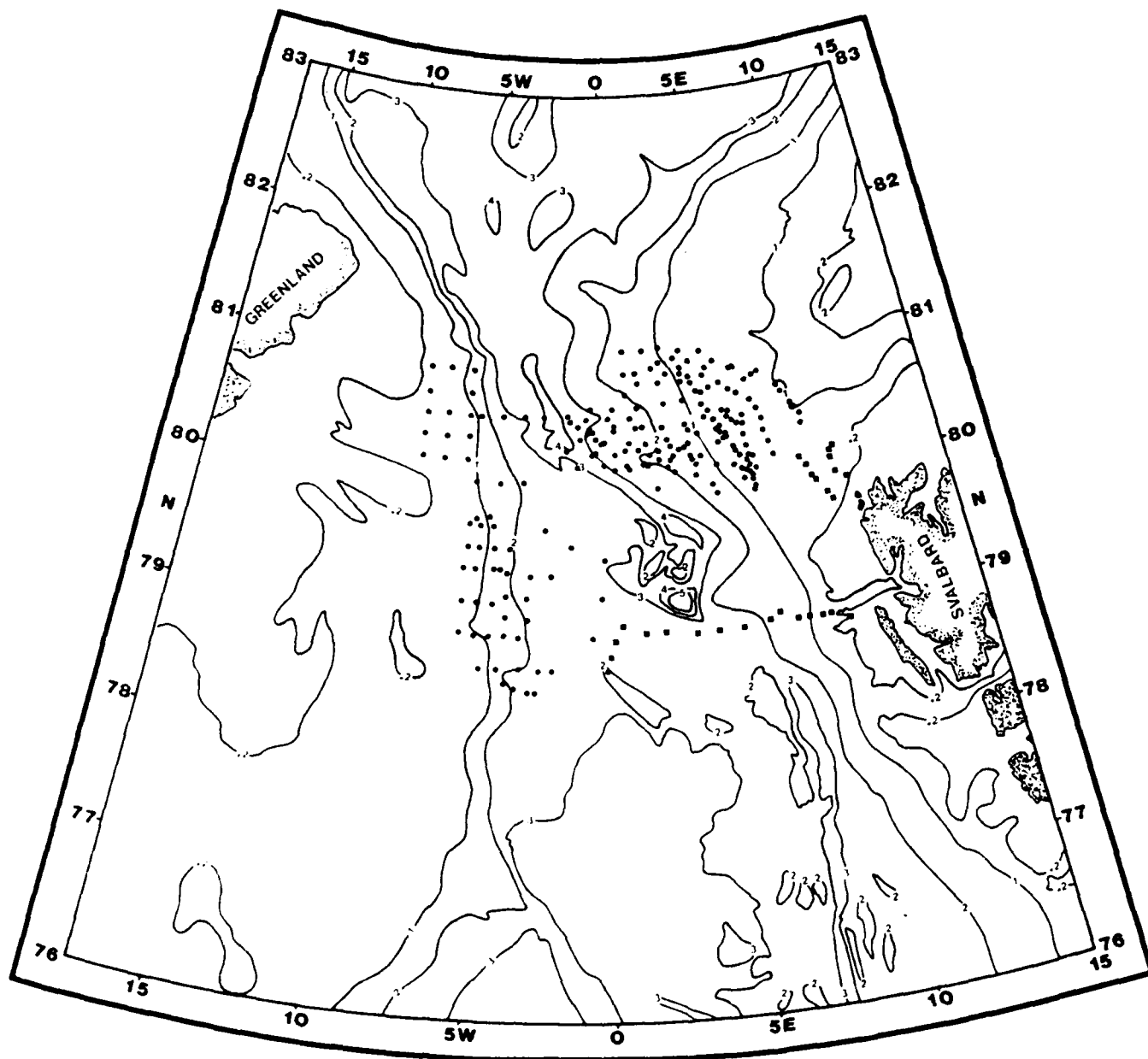


Figure 1 - Positions of the 222 helicopter-based C/STD stations (dots) in Fram Strait. Of these, several were taken on board ship as part of intercalibration procedures. Positions of 26 Lynch stations (squares) are also shown. Contours show bottom topography in kilometers.

The second leg of the USNS Lynch dealt primarily with acoustical oceanography, and as a result only 11 CTD stations were taken. All of these were taken to a nominal depth of 450 m and were located over the southern part of the Yermak Plateau.

PHYSICAL OCEANOGRAPHY PROGRAM

As the second part of a multi-year experiment in the Marginal Ice Zone of the Fram Strait (MIZEX 84 East), seven ships (the USNS Lynch, M/V Polarqueen, M/S Hakon Mosby, M/V Kvitbjorn, F/S Polarstern, F/S Valdivia, and the H/U Overdrup), along with eight remote sensing aircraft, one meteorological aircraft and four helicopters were used to begin a set of air, sea, and ice observations to better define the role of mesoscale dynamics in the MIZ (Johannessen and Horn, 1984).

In order to better define the upper layer hydrography of the interior regions of the pack ice where ship mobility became very difficult, as well as to support the continuation of open water ship-based CTD transect lines into the ice, high-resolution, internally recording, helicopter-based C/STD systems (model 302A) manufactured by Ocean Data Equipment were used extensively from the F/S Polarstern and M/V Polarqueen. Three of the helicopters used in the field were Bell 206B Jet Rangers, while the fourth (based on the F/S Polarstern) was an AéroSpécial Twin Star.

The underwater unit itself was small (1 m x 13 cm in diameter), lightweight (20 kg), completely self-contained, and possessed digital resolution of .002 mS/cm, .001°C, and .1 db for conductivity, temperature, and pressure, respectively. Temperature, conductivity, and pressure data were serially stored in a one megabit solid state memory using a constant sampling rate of

5 scans per second. After the completion of a given station, data was transferred to cassette tapes via a battery operated reader/recorder unit. The cassette data were reviewed at the site to verify a good cast, as well as to check for specific horizons of temperature and salinity, before flying to the next station.

During a normal field day, 8 to 10 pre-selected locations (comprising a survey) were occupied in the MIZ. Station depths were nominally set at 500 m. These stations took approximately 8 hours to complete, although such factors as inter-station distance, distance from the ship, depth of station, selected survey pattern, and ice conditions could alter this time by ± 3 hours. A C/STD station to 500 m depth normally took 40 minutes to complete, while transit time in helicopter to the next location (4-10 nautical miles (nm)) was typically 10 minutes. Two of the major factors controlling flight operations in this area were weather conditions and radio communications.

Station position was determined by three different methods: 1) radar transponder, 2) Omega/VLF, and 3) dead reckoning. In surveys where stations were close to the ship and accuracy was required, the helicopter was tracked on the ship's radar via a radar transponder mounted on the helicopter and tuned to the correct frequency. This method was employed quite successfully during the first part of the experiment. At distances around 40 nm, relative positions were good to ± 100 meters. At shorter distances, less than 10 nm, the fixes were good to ± 10 's of meters. When fog was a problem transponders were also used in guiding the helicopter back to the ship.

Omega/VLF, on the other hand, allows more flexibility of the helicopter since longer flights away from the ship can be made and not as many shipboard personnel are required. Accuracy of Omega/VLF in this area of the globe depends on the number of sending stations being monitored by the on board computer but will be generally within ± 150 meters.

Occasionally during a survey the Omega/VLF system on board the helicopter lost the necessary number of transmitting stations required for proper functioning. In these cases, it was much better to navigate using dead reckoning techniques from the point of last valid position. This took into consideration the ground speed and heading of the helicopter (air velocity minus estimated wind velocity) and the time required to get from one point in the survey grid to another. Although not as acceptable as Omega/VLF, it was by far the best method when all else failed. Error estimates for this type of navigation are given to ± 300 m and reflects the typical errors encountered when returning to the ship, which had known position.

After the desired position was obtained, the closest available floe with good deployment and landing characteristics was selected. This selection typically took place from altitudes of 1,000 - 3,000 feet which were necessary for radio communications from the ship. If the desired position was not acceptable because of bad ice edge conditions or its location in the middle of a large multiyear floe, then the first available site for deployment within the immediate vicinity was chosen. The pilot provided a closer survey of the floe, and if still acceptable, landed after the most up-to-date position was recorded.

The sonde was lowered and raised at two different rates, 20 m/min in the upper 200 meters where extreme gradients in temperature and conductivity were found, and 30 m/min from 200 to 500 m where gradients were much less severe. The slower rate near the surface was used primarily to obtain more acceptable results in the calculated salinity profile where rapidly changing fine structure and extreme gradients can frequently cause spiking due to the variation in the response times of the individual sensors. After transferring data to cassette and verifying the quality of the data, the Omega/VLF system (if used) was reinitialized to the latitude and longitude prior to landing. Because the

Omega/VLF could not successfully lock onto stations while on the ice, several hundred feet of altitude had to be obtained. Site position was entered into the navigation system as the final flyby over the site was made subsequent to the system acquiring the minimum number of Omega and VLF transmitting stations.

Subsequent C/STD stations in the survey were completed depending upon the weather, radio communications, and occasionally a refueling of the helicopter on board ship. After completion of the survey, temperature and salinity profiles were made for each station using an X-Y-Y analog plotter while on board the ship. These profiles were merged with other existing data sets in order to provide a better understanding of the oceanographic features present at that time and to provide a base upon which to set up future surveys.

When time and operations permitted, the deck unit was used to transfer the cassette data to a Hewlett-Packard 1000 series computer for storage on 9-track tape. The deck unit software was designed to mimic the output data stream of the Neil Brown deck unit. This allowed the use of existing acquisition software developed by Woods Hole Oceanographic Institution for Neil Brown STDs to be used on the Hewlett-Packard computer. The resulting 9-track tape can be reduced on other computers using data reduction programs in common use by the oceanographic community.

This conversion to 9-track tapes at sea not only obviates the need to bring all of the cassettes immediately back to the institution, but also speeds up the processing time.

A more detailed account of the helicopter-based C/STD systems, both electro-mechanical and field operations, are given by Manley and Perti (1984).

Between June 12 and July 17, 222 helicopter-based C/STD stations comprising several major surveys were completed as far as 100 km away from the mother ships (Fig. 1). Twenty of these stations were taken on board ship in

8

conjunction with Neil Brown stations for inter-calibration purposes. On the other hand, the USNS Lynch was not ice-strengthened, and as a result was restricted entirely to the open water. The ship was equipped with an up-to-date Neil Brown data acquisition system consisting of a Mark IIIB Neil Brown underwater unit, and a model 1150 Neil Brown deck unit which was integrated with a Digi data 9-track recorder. Also associated with the CTD system was a reel-to-reel audio recorder and an HP 98 series acquisition/plotter combination. Salinity samples were taken with a General Oceanics 12-bottle rosette system which was mounted directly above the Neil Brown CTD. Analysis of the salinity bottles was accomplished on the shipboard Guildline Autosal within 10 days of the sample acquisition.

C/STD DATA PROCESSING

Helicopter-based 302s

Since pre- and post-cruise calibrations of the helicopter units (completed at Northwest Regional Calibration center, NWRCC) showed no significant deviations in either pressure, temperature or conductivity, no precursory calibrations were required before the processing of the data.

Temperature lag coefficients, τ , for each sensor were, however, required prior to decimation. This was accomplished by intercomparing the up and downtraces of random stations throughout the entire data set using different time constants. Best fit for a given station was determined when the ascending and descending parts of the cast on a T-S diagram were nearly congruent. From these comparisons it was determined that the best overall fits occurred when τ was set at 0.31 and 0.27 seconds for the Polarstern and Polarqueen helicopter CTDs, respectively.

Raw data from each instrument were decimated into a uniform pressure series (1.0 db) using a linear interpolation scheme with a window of 7 scans centered around the desired level.

Irregularities or spikes in the decimated data were then subjectively removed. In most cases these were single points that were taken out and did not interrupt the uniform pressure series. Occasionally, segments of data would have to be removed and would either be replaced by interpolated data or left alone. These decisions were again subjective and depended largely on the local conductivity and temperature structure.

At the same time, the upper 2-4 meters of data (estimated thickness of the ice) were automatically removed from each station. This was done to prevent misinterpretations of the results which were attributable to the methodology of taking the station (i.e., through seal holes or off the edge of a floe).

USNS Lynch CTD

Although there were various formats used for recording the Neil Brown CTD data, only the digital 9-track output and the reel-to-reel audio tapes were used. Unfortunately, 5 of the 26 stations recorded in the digital format proved to be useless due to recorder problems. As a result, audio tapes were used to reconstruct these stations back into 9-track data. Even though some of the audio tapes produced noisy data, subsequent processing cleared up most of these problems.

Although not typically done in Neil Brown CTD data processing, the initial decimation of the data to 1.0 db intervals was made via an eleven point average centered around the desired level. This was due to the

formatting and processing control between the Neil Brown CTD-produced data tapes and that of the specialized processing software requiring CTD78 formatted tapes.

As mentioned earlier, the stations reproduced via audio conversion to 9-track were somewhat noisy. In order to smooth these data and be consistent with the remainder of the stations, a 5 point Gaussian filter was employed on all of the decimated data. Post-processing irregularities or spikes in the data were handled in a similar way as that of the helicopter-based C/STD data.

CTD CALIBRATION

As mentioned earlier, preliminary calibration for each of the instruments was obtained from pre-cruise and post-cruise calibrations. Helicopter units were calibrated at NWRCC (Seattle WA), while the Neil Brown unit on board the Lynch was calibrated at the NORDA facility in Bay St. Louis, MS.

Bottle data provided the final calibration for the salinity data. In the case of the Lynch data, this was the final step before the production of the data report, however, the helicopter-based C/STDs required one more calibration process in order to fine-tune all of the data to that of the Neil Brown CTD data obtained during the Polarqueen and Polarstern intercalibration stations. Since the same salinity samples were used for calibration of the Neil Brown and ODEC CTDs, no further calibration was required on this data. Pressure deviations also proved to be within specification for both instruments and hence was not readjusted. Temperature deviations, even though very slight (less than 0.005°C), were taken into consideration and adjusted accordingly in order to produce the final results contained within this technical report.

OUTPUT FORMAT OF FINAL DATA

Output of the final data is provided in three different formats consisting of 1) station headers, 2) standard level listings, and 3) profiles of temperature, salinity and sigma-t (T, S, σ_t) versus depth.

Station header listings provide a quick glance section of all the basic station information and are found directly in front of each data section for the USNS Lynch and helicopter-based C/STDs. The information contained within these listings includes the consecutive station number; the ship from which the data was taken, or for helicopter data, the ship from which the helicopter was based; the day, month, year, corresponding julian day of the start of the station; the minimum and maximum depths contained within the profile; and finally, the station position and associated position errors. Table 2 defines more explicitly the meanings and abbreviations used in the station header listings.

In general, two profiles of T, S, σ_t are graphically shown on one page of the data report. On the facing page, the corresponding standard level listings of the station are shown. The standard level data consist of the parameters relating to the station, and in some cases are abbreviated to save space. The meanings of these abbreviated terms are given in Table 2.

TABLE 1

DEFINITIONS AND MEANINGS OF ABBREVIATED TERMS

FOR STATION HEADER LISTINGS

CAMP	Project Identifier
SH	Ship from which data was taken, or if helicopter data, ship on which helicopter was based: PQ = <u>Polarqueen</u> PS = <u>Polarstern</u> LY = <u>Lynch</u>
STAT	CTD Station Number
MODE	1 implies downtrace 2 implies uptrace
DAY	Day of Station
MON	Month of Station
YR	Year of Station
TIME	GMT Time of Station
CODE	Processing Code, see Table 2
JULDAY	Julian Day (decimal) of station (1.0 = 1 Jan 1984)
D.MIN	Minimum Depth (meters) of station
D.MAX	Maximum Depth (meters) of station
LATITUDE	Latitude of station in decimal degrees
LONGITUDE	Longitude of station in decimal degrees (+ indicates East Longitude) (- indicates West Longitude)
LAT.ERR	Error of Latitude Position in meters
LNG.ERR	Error of Longitude Position in meters

TABLE 2

DEFINITIONS AND MEANINGS OF ABBREVIATED TERMS FOR STANDARD LEVEL LISTINGS

Station xxx (y)	Station number (xxx) and mode of trace (y) where:
CTD	Station taken with CTD y = 1 indicates downtrace y = 2 indicates uptrace
GMT	Times shown are Greenwich Mean Time
Code = I	Processing Code where if I =
	A) 1 -> 5 profile contains both temperature and salinity data.
	1) data from magnetic tape
	2) data from manual digitization of analog charts
	3) filtered in salinity only
	4) filtered in temperature only
	5) filtered in both temperature and salinity
	B) 11 -> 13 profile is in salinity only
	11) data from magnetic tape
	12) data from manual digitization of analog charts
	13) filtered
	C) 21 -> 23 profile in temperature only
	21) data from magnetic tape
	22) data from manual digitization of analog charts
	23) filtered
LAT	Latitude in decimal degrees N (North)
LONG	Longitude in decimal degrees W (West), E (East)
LTER	Estimate of positional error for latitude in meters
LGER	Estimate of positional error for longitude in meters
AIR TEMP	Air temperature in deg. C (0 implies no data)
BAROM	Barometric pressure in millibars (0 implies no data)
WIND	Wind direction in degrees true north (0 implies no data)
SPEED	Wind speed in meters/sec (0 implies no data)

TABLE 2 (continued)

LISTING PARAMETERS

DEPTH	Depth in meters
TEMP	Temperature in degrees C
PTEMP	Potential temperature in degrees C
SALIN	Salinity in parts per thousand
SIG T	Sigma-t density where: density (gm/cm^3) = 1.0 ((Sig T) * 1000.0)
SPVOL	Specific volume anomaly ($\times 10^{-5} \text{cm}^3/\text{gm}$)
DYNHT	Dynamic height (dynamic meters)
SOUND	Sound velocity in meters/sec calculated from Matthews equation

Those stations having depths greater than 700 m are placed on a single page. The corresponding profiles are broken up into an expanded 0 to 700 m plot on the left side, which is consistent with all other profiles in the report, as well as the 0 to 4000 m plot which shows the remainder of the data and can be used to intercompare other deep stations, if desired.

ACKNOWLEDGMENTS

The field work was supported by the Office of Naval Research under contract N00014-76-C-004, while data processing and publication of this report was funded under contract N00014-84-C-0132. My personal thanks to Jay Ardal who helped acquire the USNS Lynch transect data and all of the helicopter data from the M/V Polarqueen. To John Kemp (WHOI), who did an excellent job of collecting the last 11 stations during the second leg of the USNS Lynch, I wish to express my appreciation. Bruce Huber, Dennis Camp and Bill Haines continually helped me with the technical end of data processing. To them, I am gratefully indebted. Last, but not least, I wish to acknowledge the efforts of the helicopter crews on board the M/V Polarqueen and F/S Polarstern for not only flying long hours with Jay and me, but also pitching in and helping go through the rather monotonous and "cold" mechanics of station taking.

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STD DATA

This section is broken up into two color-coded parts that will hopefully aid the user in locating the helicopter-based and USNS Lynch-based data.

The first section (yellow) is the helicopter data obtained from the ships F/S Polarstern and M/V Polarqueen. These stations, although numbered differently in the field, have since been interwoven into a continuous (time sequential) data set.

The USNS Lynch data (second section, in blue), however, was intentionally kept separate from the helicopter data because of data management reasons.

At the beginning of each of the sections, a complete station header listing is given, again to further aid the user in more efficient use of the report. The abbreviated headings and their meanings are given in Table 1.

CAMP	SU	STAT	MODE	DI	MON	YR	TIME	CODE	JULDAY	U.MIN	U.MAX	LATITUDE	LONGITUDE	LAT. ERK	LANG. ERK
XXXXXX	00	1	1	1	00	00	00	1	01	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	02	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	03	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	04	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	05	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	06	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	07	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	08	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	09	00	00	00	00	00	00
XXXXXX	00	1	1	1	00	00	00	1	10	00	00	00	00	00	00
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XXXXXX	00	1	1	1	00	00	00	1	13	00	00	00	00	00	00
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XXXXXX	00	1	1	1	00	00	00	1	15	00	00	00	00	00	00
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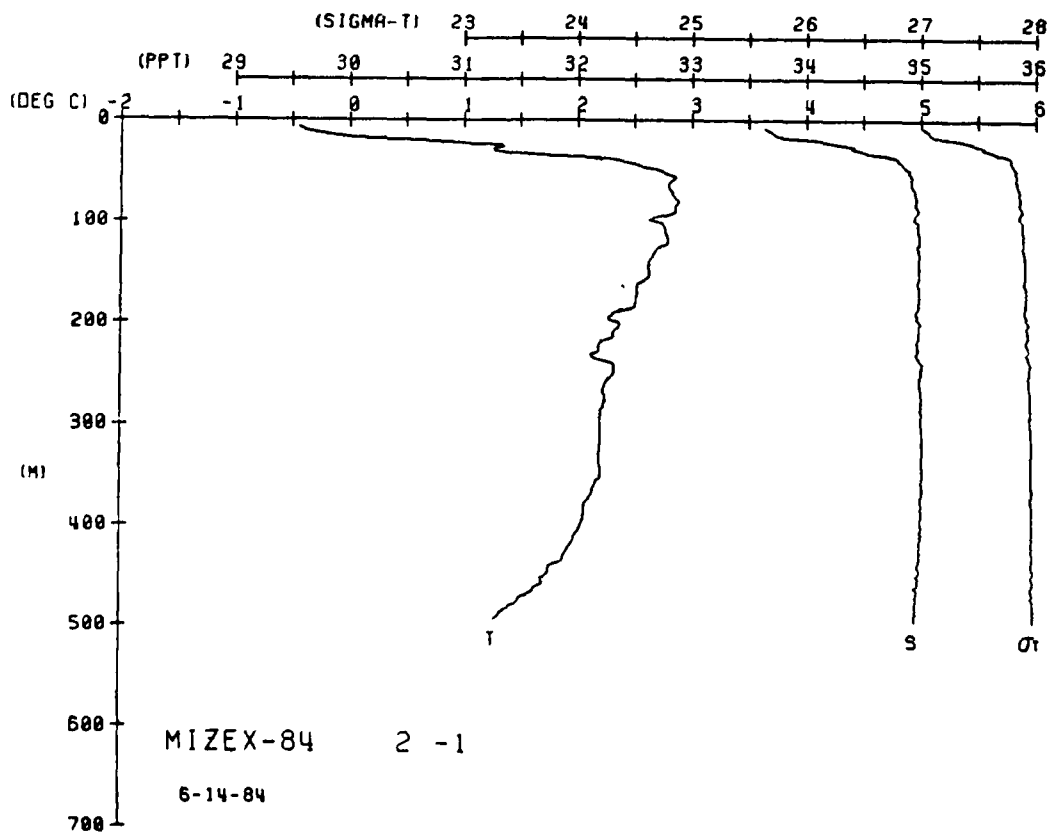
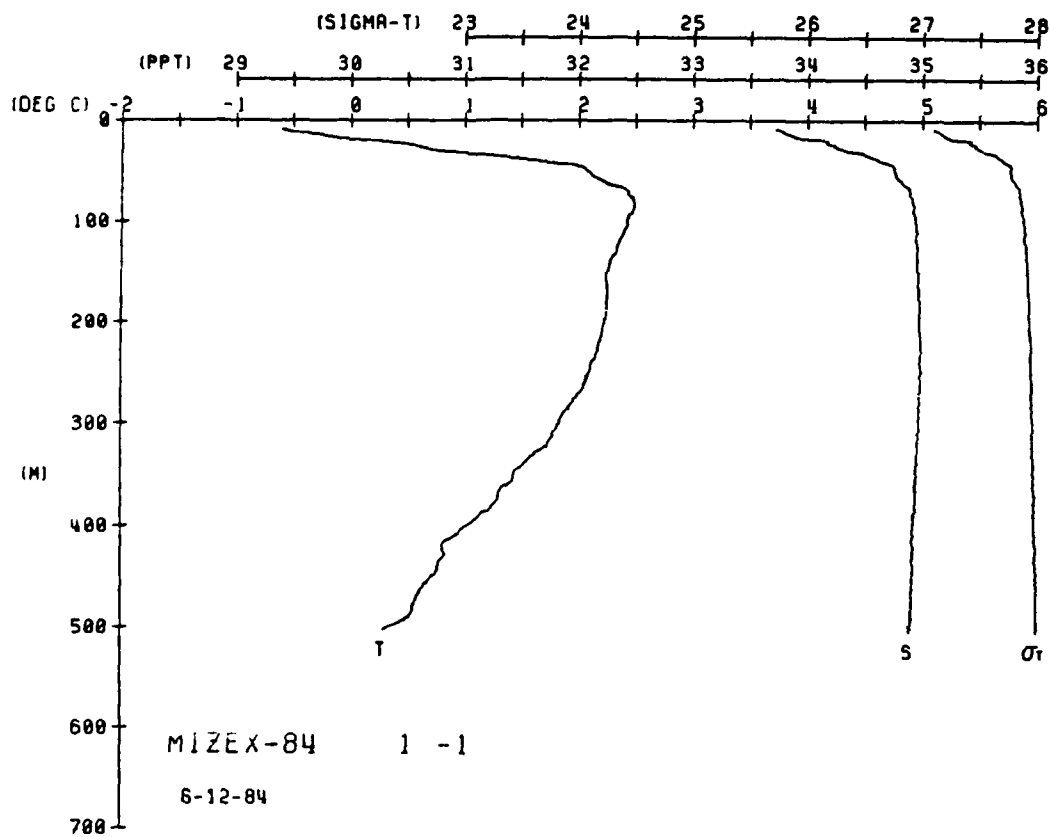
CAMP	SH	STAT	MODE	DI	MON	YR	TIME	CODP	JULDAY	D.MIN	D.MAX	LATITUDE	LONGITUDE	LAT. ERR	LONG. ERR
MINE	PU	71	1	26	JUN	84	932	1	178.4021	4.0	499.0	80.75000	1.00000	300.0	300.0
MINE	PU	72	1	26	JUN	84	1032	1	178.4389	5.9	499.0	80.75000	1.00000	300.0	300.0
MINE	PU	73	1	26	JUN	84	1124	1	178.4764	5.9	499.0	80.75000	1.00000	300.0	300.0
MINE	PU	74	1	26	JUN	84	1243	1	178.5114	4.0	485.2	80.98330	2.22222	400.0	400.0
MINE	PU	75	1	26	JUN	84	1523	1	178.6757	2.0	485.2	80.98330	2.22222	400.0	400.0
MINE	PU	76	1	26	JUN	84	1704	1	178.7111	2.0	485.2	80.98330	2.22222	400.0	400.0
MINE	PU	77	1	26	JUN	84	1849	1	178.7772	4.0	491.1	80.98330	2.22222	400.0	400.0
MINE	PU	78	1	26	JUN	84	1902	1	178.7840	1.0	494.1	80.98330	2.22222	400.0	400.0
MINE	PU	79	1	26	JUN	84	1001	1	179.3764	1.0	515.8	80.98330	2.22222	400.0	400.0
MINE	PU	80	1	27	JUN	84	1050	1	179.4174	1.0	515.8	80.98330	2.22222	400.0	400.0
MINE	PU	81	1	27	JUN	84	1145	1	179.4514	4.9	520.7	80.98330	2.22222	400.0	400.0
MINE	PU	82	1	27	JUN	84	1237	1	179.4896	4.9	520.7	80.98330	2.22222	400.0	400.0
MINE	PU	83	1	27	JUN	84	1333	1	179.5257	3.0	527.6	80.98330	2.22222	400.0	400.0
MINE	PU	84	1	27	JUN	84	1433	1	179.5674	3.0	527.6	80.98330	2.22222	400.0	400.0
MINE	PU	85	1	27	JUN	84	1540	1	179.6062	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	86	1	27	JUN	84	1627	1	179.6465	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	87	1	27	JUN	84	1711	1	179.6840	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	88	1	27	JUN	84	1800	1	179.7186	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	89	1	27	JUN	84	1839	1	179.7486	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	90	1	27	JUN	84	1899	1	179.7771	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	91	1	28	JUN	84	1109	1	180.4646	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	92	1	28	JUN	84	1233	1	180.5229	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	93	1	28	JUN	84	1319	1	180.5549	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	94	1	28	JUN	84	1408	1	180.5889	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	95	1	28	JUN	84	1507	1	180.6236	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	96	1	28	JUN	84	1607	1	180.6514	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	97	1	28	JUN	84	1727	1	180.6711	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	98	1	28	JUN	84	1809	1	180.6927	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	99	1	28	JUN	84	1927	1	180.7154	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	100	1	28	JUN	84	1015	1	181.3271	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	101	1	29	JUN	84	1109	1	181.3514	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	102	1	29	JUN	84	1242	1	181.3727	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	103	1	29	JUN	84	1332	1	181.3939	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	104	1	29	JUN	84	1417	1	181.4151	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	105	1	29	JUN	84	1504	1	181.4363	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	106	1	29	JUN	84	1592	1	181.4575	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	107	1	29	JUN	84	1678	1	181.4788	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	108	1	29	JUN	84	1765	1	181.4999	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	109	1	29	JUN	84	1851	1	181.5211	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	110	1	29	JUN	84	1938	1	181.5423	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	111	1	29	JUN	84	1505	1	181.5635	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	112	1	29	JUN	84	1592	1	181.5847	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	113	1	29	JUN	84	1678	1	181.6059	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	114	1	29	JUN	84	1765	1	181.6271	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	115	1	29	JUN	84	1851	1	181.6483	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	116	1	29	JUN	84	1938	1	181.6695	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	117	1	29	JUN	84	1630	1	181.6907	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	118	1	29	JUN	84	1820	1	181.7119	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	119	1	29	JUN	84	1904	1	181.7331	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	120	1	29	JUN	84	1934	1	181.7543	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	121	1	30	JUN	84	1019	1	181.7755	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	122	1	30	JUN	84	1117	1	181.7967	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	123	1	30	JUN	84	1206	1	181.8179	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	124	1	30	JUN	84	1303	1	181.8391	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	125	1	30	JUN	84	1401	1	181.8603	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	126	1	30	JUN	84	1500	1	181.8815	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	127	1	30	JUN	84	1600	1	181.9027	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	128	1	30	JUN	84	1700	1	181.9239	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	129	1	30	JUN	84	1800	1	181.9451	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	130	1	30	JUN	84	1900	1	181.9663	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	131	1	30	JUN	84	1000	1	181.9875	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	132	1	30	JUN	84	1100	1	182.0087	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	133	1	30	JUN	84	1200	1	182.0299	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	134	1	30	JUN	84	1300	1	182.0511	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	135	1	30	JUN	84	1400	1	182.0723	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	136	1	30	JUN	84	1500	1	182.0935	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	137	1	30	JUN	84	1600	1	182.1147	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	138	1	30	JUN	84	1700	1	182.1359	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	139	1	30	JUN	84	1800	1	182.1571	2.0	493.8	80.98330	2.22222	400.0	400.0
MINE	PU	140	1	30	JUN	84	1900	1	182.1783	2.0	493.8	80.98330	2.22222	400.0	400.0

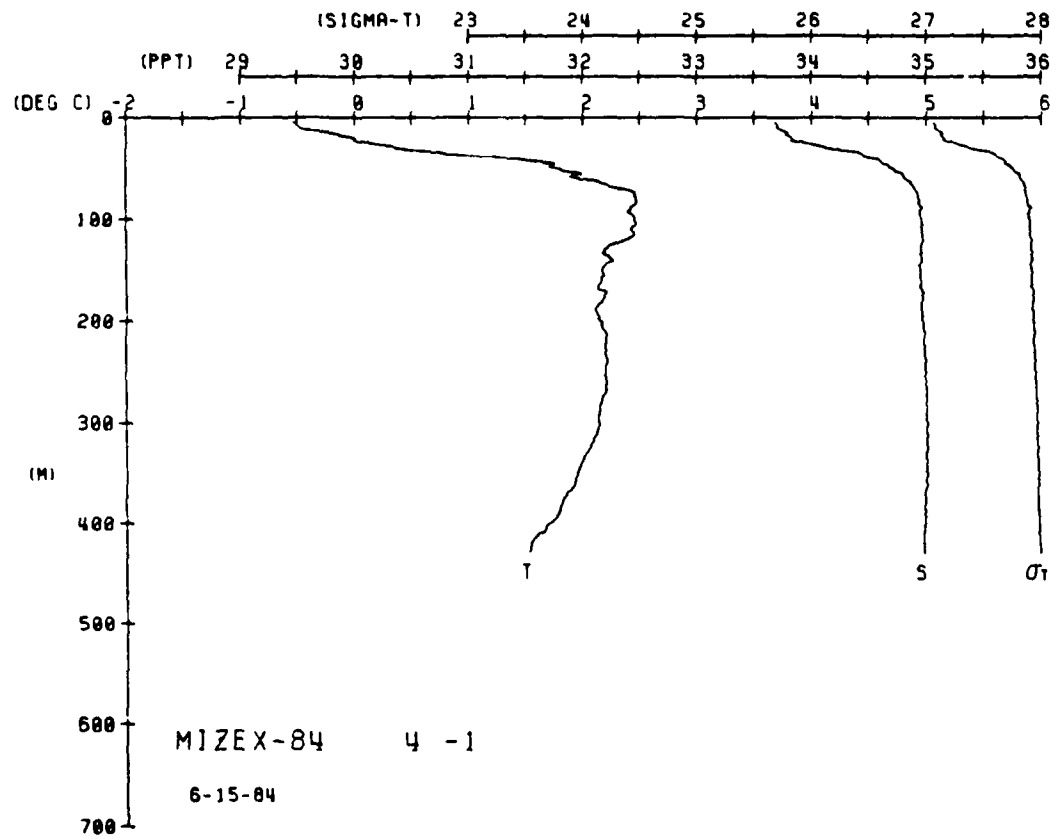
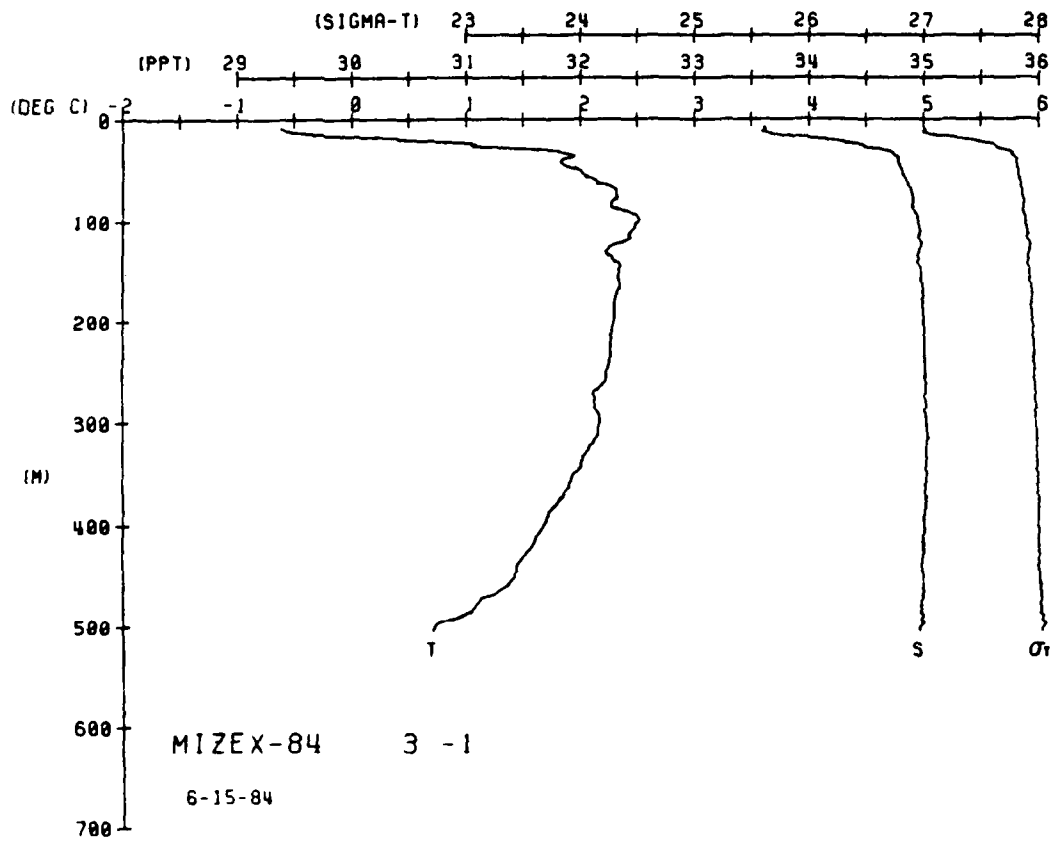
CAME	SH	STAT	MODE	DT	MON	YR	TIME	COOP	JULDAY	D.MIN	D.MAX	LATITUDE	LONGITUDE	LAT.FRR	LONG.FRR
MIXEX-84	PJ	141	1	2	JUL	84	1924	1	184.4333	4.9	499.0	80.58330	5.58330	150.0	150.0
MIXEX-84	PJ	142	1	2	JUL	84	1911	1	184.4660	4.0	499.0	80.53330	6.50000	150.0	150.0
MIXEX-84	PJ	143	1	2	JUL	84	1913	1	184.4951	2.0	595.7	80.48330	6.08330	150.0	150.0
MIXEX-84	PJ	144	1	2	JUL	84	1938	1	184.5333	2.0	495.1	80.38330	6.41670	150.0	150.0
MIXEX-84	PJ	145	1	4	JUL	84	1933	1	184.5646	2.0	498.0	80.38170	5.41670	150.0	150.0
MIXEX-84	PJ	146	1	4	JUL	84	903	1	186.3171	3.0	537.5	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	147	1	4	JUL	84	940	1	186.4028	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	148	1	4	JUL	84	1026	1	186.4347	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	149	1	4	JUL	84	1059	1	186.4576	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	150	1	4	JUL	84	1146	1	186.4903	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	151	1	4	JUL	84	1244	1	186.5167	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	152	1	4	JUL	84	1315	1	186.5549	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	153	1	4	JUL	84	1410	1	186.5833	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	154	1	4	JUL	84	1528	1	186.6472	2.0	537.1	80.29170	1.69170	300.0	300.0
MIXEX-84	PJ	155	1	4	JUL	84	1628	1	187.0866	3.0	492.1	80.17170	4.55330	300.0	300.0
MIXEX-84	PJ	156	1	5	JUL	84	194	1	187.0866	3.0	492.1	80.17170	4.55330	300.0	300.0
MIXEX-84	PJ	157	1	5	JUL	84	1031	1	187.4382	3.0	486.2	80.42830	4.36500	300.0	300.0
MIXEX-84	PJ	158	1	5	JUL	84	1125	1	187.4806	3.0	503.0	80.34330	5.27670	300.0	300.0
MIXEX-84	PJ	159	1	5	JUL	84	1225	1	187.5174	3.0	503.0	80.34330	4.43830	300.0	300.0
MIXEX-84	PJ	160	1	5	JUL	84	1342	1	187.5569	3.0	503.0	80.34330	3.90330	300.0	300.0
MIXEX-84	PJ	161	1	6	JUL	84	191	1	188.3965	3.0	500.0	80.46170	3.97500	300.0	300.0
MIXEX-84	PJ	162	1	6	JUL	84	1066	1	188.4347	2.0	492.1	80.40000	3.00000	150.0	150.0
MIXEX-84	PJ	163	1	6	JUL	84	1183	1	188.4708	2.0	492.1	80.31670	3.40000	150.0	150.0
MIXEX-84	PJ	164	1	6	JUL	84	1232	1	188.5090	2.0	492.1	80.24170	3.03330	150.0	150.0
MIXEX-84	PJ	165	1	6	JUL	84	1313	1	188.5833	2.0	492.1	80.24170	3.03330	150.0	150.0
MIXEX-84	PJ	166	1	6	JUL	84	1529	1	188.6382	2.0	492.1	80.31670	2.58330	150.0	150.0
MIXEX-84	PJ	167	1	6	JUL	84	1597	1	188.6815	2.0	492.1	80.31670	2.58330	150.0	150.0
MIXEX-84	PJ	168	1	6	JUL	84	1702	1	188.7097	2.0	492.1	80.21670	2.00000	150.0	150.0
MIXEX-84	PJ	169	1	6	JUL	84	1752	1	188.7451	2.0	492.1	80.21670	1.13330	150.0	150.0
MIXEX-84	PJ	170	1	7	JUL	84	427	1	189.4954	2.0	494.1	80.33330	1.05000	150.0	150.0
MIXEX-84	PS	171	1	7	JUL	84	556	1	189.5146	2.0	494.1	78.39830	1.81000	150.0	150.0
MIXEX-84	PS	172	1	7	JUL	84	656	1	189.5472	2.0	365.8	78.51670	3.63500	300.0	300.0
MIXEX-84	PS	173	1	7	JUL	84	650	1	189.5847	2.0	495.1	78.51670	3.00000	300.0	300.0
MIXEX-84	PS	174	1	7	JUL	84	1866	1	189.7819	2.0	497.1	78.56330	3.00000	300.0	300.0
MIXEX-84	PS	175	1	7	JUL	84	2008	1	189.8389	2.0	497.1	78.56330	3.00000	300.0	300.0
MIXEX-84	PS	176	1	8	JUL	84	931	1	190.3965	2.0	515.8	78.91270	1.51000	30.0	30.0
MIXEX-84	PS	177	1	8	JUL	84	1097	1	190.4771	2.0	515.8	78.67000	2.20330	300.0	300.0
MIXEX-84	PS	178	1	8	JUL	84	1177	1	190.4771	2.0	494.1	78.67000	2.69670	300.0	300.0
MIXEX-84	PS	179	1	8	JUL	84	1313	1	190.5132	2.0	494.1	78.67000	2.4170	300.0	300.0
MIXEX-84	PS	180	1	8	JUL	84	1433	1	190.5407	2.0	495.0	78.66670	3.50000	300.0	300.0
MIXEX-84	PS	181	1	8	JUL	84	1513	1	190.5924	2.0	495.0	78.66670	3.03670	300.0	300.0
MIXEX-84	PS	182	1	8	JUL	84	1550	1	190.6243	2.0	492.4	80.18330	5.00000	150.0	150.0
MIXEX-84	PS	183	1	8	JUL	84	1635	1	190.6243	2.0	498.2	80.18330	4.96670	150.0	150.0
MIXEX-84	PS	184	1	8	JUL	84	1625	1	190.6228	2.0	498.2	80.33330	1.58330	150.0	150.0
MIXEX-84	PS	185	1	8	JUL	84	1625	1	190.6440	2.0	495.1	80.21670	1.00000	150.0	150.0
MIXEX-84	PS	186	1	8	JUL	84	191	1	190.7125	2.0	477.7	80.21670	1.00000	150.0	150.0
MIXEX-84	PS	187	1	8	JUL	84	2025	1	190.7132	2.0	477.3	78.92170	3.00000	300.0	300.0
MIXEX-84	PS	188	1	8	JUL	84	2101	1	190.8507	2.0	330.2	78.92170	3.00000	300.0	300.0
MIXEX-84	PS	189	1	8	JUL	84	2147	1	190.9076	2.0	538.2	78.91670	4.67670	300.0	300.0
MIXEX-84	PS	190	1	8	JUL	84	2239	1	190.9653	2.0	538.2	78.91670	3.00000	300.0	300.0
MIXEX-84	PS	191	1	8	JUL	84	2310	1	190.9653	2.0	538.2	78.91670	3.00000	300.0	300.0
MIXEX-84	PS	192	1	8	JUL	84	2342	1	190.9875	2.0	376.2	79.12700	5.03000	300.0	300.0
MIXEX-84	PS	193	1	9	JUL	84	14	1	191.0875	2.0	376.2	79.12700	5.22330	300.0	300.0
MIXEX-84	PS	194	1	9	JUL	84	141	1	191.0907	2.0	376.2	79.12700	5.22330	300.0	300.0
MIXEX-84	PS	195	1	9	JUL	84	141	1	191.0907	2.0	544.6	79.12700	4.58500	300.0	300.0
MIXEX-84	PS	196	1	9	JUL	84	326	1	191.1118	2.0	544.6	79.42670	4.58500	300.0	300.0
MIXEX-84	PS	197	1	9	JUL	84	326	1	191.1431	2.0	544.6	79.42670	5.82170	300.0	300.0
MIXEX-84	PS	198	1	9	JUL	84	1011	1	191.1931	2.0	485.2	80.30000	1.50000	150.0	150.0
MIXEX-84	PS	199	1	9	JUL	84	1144	1	191.4243	2.0	485.2	80.46670	0.41670	150.0	150.0
MIXEX-84	PS	200	1	9	JUL	84	1144	1	191.4589	2.0	446.7	80.34330	0.13330	150.0	150.0
MIXEX-84	PS	201	1	9	JUL	84	1144	1	191.4589	2.0	446.7	80.34330	0.13330	150.0	150.0
MIXEX-84	PS	202	1	9	JUL	84	1144	1	191.4806	2.0	446.7	80.34330	0.13330	150.0	150.0
MIXEX-84	PS	203	1	9	JUL	84	2228	1	191.5381	2.0	446.7	79.58330	5.55500	300.0	300.0
MIXEX-84	PS	204	1	9	JUL	84	2228	1	191.5381	2.0	446.7	79.58330	5.55500	300.0	300.0
MIXEX-84	PS	205	1	9	JUL	84	2315	1	191.5381	2.0	446.7	79.58330	5.55500	300.0	300.0
MIXEX-84	PS	206	1	9	JUL	84	53	1	192.0368	2.0	544.6	79.58330	4.58500	300.0	300.0
MIXEX-84	PS	207	1	10	JUL	84	53	1	192.0368	2.0	544.6	79.58330	4.58500	300.0	300.0
MIXEX-84	PS	208	1	11	JUL	84	1445	1	193.2729	2.0	498.0	80.01830	5.67170	300.0	300.0
MIXEX-84	PS	209	1	11	JUL	84	1400	1	194.4583	2.0	498.0	80.01830	2.41480	300.0	300.0
MIXEX-84	PS	210	1	12	JUL	84	1146	1	194.4583	2.0	499.0	80.51670	1.03330	400.0	400.0

CAMP	SH	STAT	MODE	DAY	MON	YR	TIME	CODE	JULDAY	D.MIN	D.MAX	LATITUDE	LONGITUDE	LAT. ERR	LONG. ERR
MIZEXX-84	PU	211	1	12	JUL	84	1231	1	194.5215	2.0	498.0	80.46670	-0.66670	400.0	400.0
MIZEXX-84	PU	212	1	12	JUL	84	1321	1	194.5263	2.0	499.1	80.41570	-0.25000	400.0	400.0
MIZEXX-84	PU	213	1	12	JUL	84	1409	1	194.5296	2.0	495.1	80.37500	-0.03330	400.0	400.0
MIZEXX-84	PS	214	1	12	JUL	84	1455	1	194.5215	2.0	489.2	80.31570	-0.25000	30.0	30.0
MIZEXX-84	PS	215	1	13	JUL	84	1804	1	195.3215	2.0	603.6	79.79930	-5.62020	30.0	30.0
MIZEXX-84	PS	216	1	13	JUL	84	1322	1	196.3299	2.0	297.9	79.81870	-4.87120	30.0	30.0
MIZEXX-84	PS	217	1	14	JUL	84	1719	1	197.3099	2.0	142.1	79.72370	-2.47490	30.0	30.0
MIZEXX-84	PS	218	1	15	JUL	84	1223	1	197.5100	14.9	492.1	79.60270	-0.13330	30.0	30.0
MIZEXX-84	PS	219	1	16	JUL	84	1101	1	198.0592	2.0	592.8	78.27070	-0.00330	30.0	30.0
MIZEXX-84	PS	220	1	17	JUL	84	608	1	199.0424	2.0	647.0	79.49670	0.01800	30.0	30.0
MIZEXX-84	PS	221	1	17	JUL	84	608	1	199.3389	5.9	647.1	80.17170	5.06170	30.0	30.0
MIZEXX-84	PU	222	1	17	JUL	84	848	1	199.3667	5.9	647.1	80.17170	5.06170	30.0	30.0

STD DATA

This section provides all of the helicopter-based STD data taken during MIZEX 84. The numerical listing and corresponding plots are given.

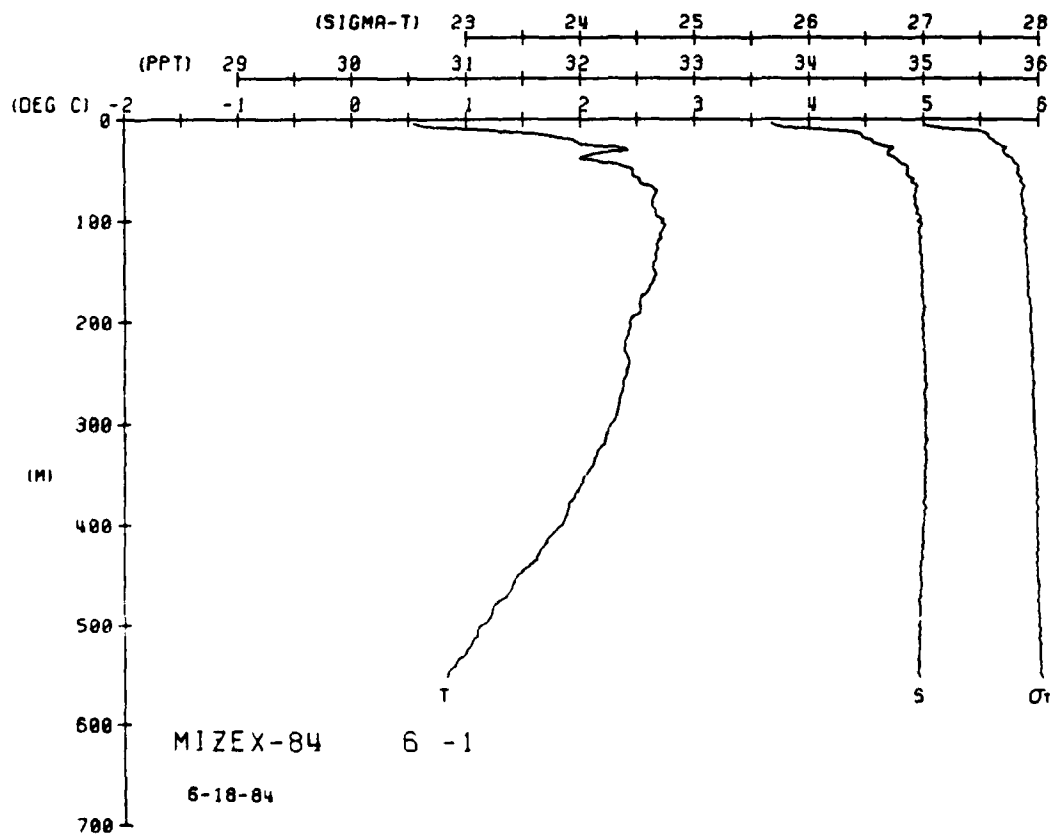
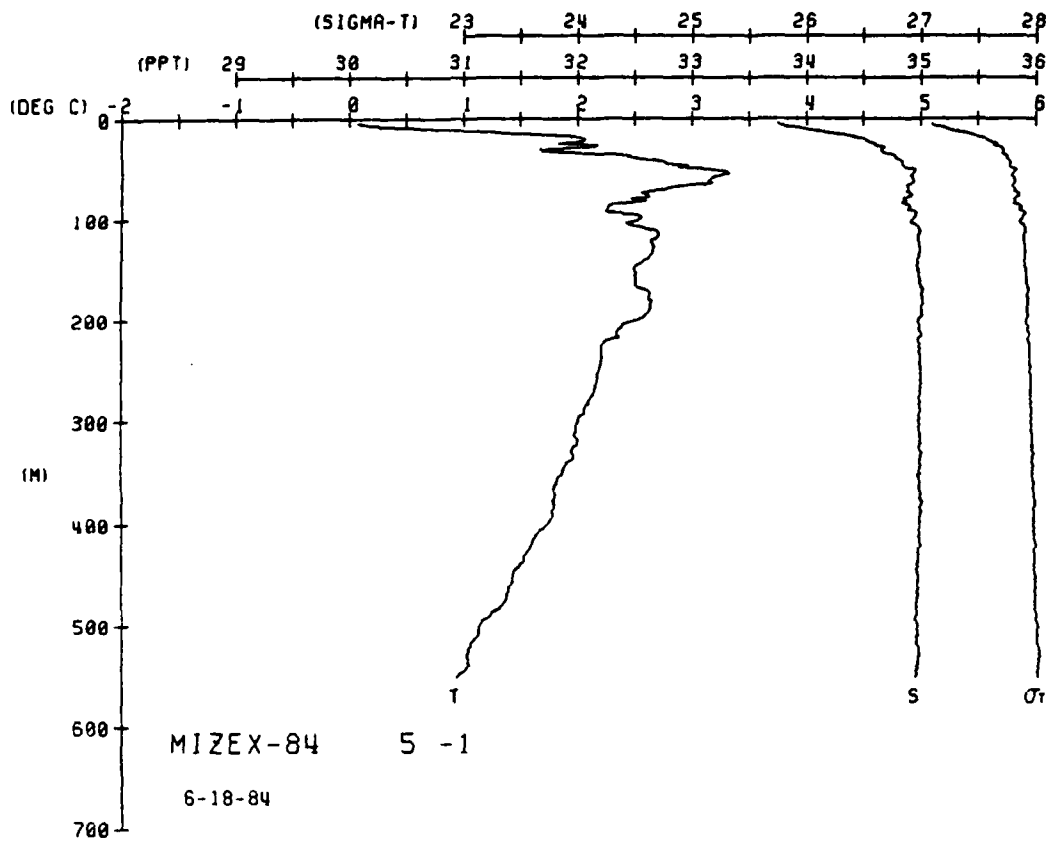




WIZEX-84 STATION 5(1) CID 18/JUN/1984 1311 GMT CUDE = 1
LAT = 30.026 N LONG = 4.9567E LTR = 300 UGR = 300
AIR TEMP = 0.0 BARDM = 0.0 WIND = 0.0 SPEED = 0.0

WIZEX-84 STATION 6(1) CID 18/JUN/1984 1311 GMT CUDE = 1
LAT = 30.026 N LONG = 4.8367E LTR = 300 UGR = 300
AIR TEMP = 0.0 BARDM = 0.0 WIND = 0.0 SPEED = 0.0

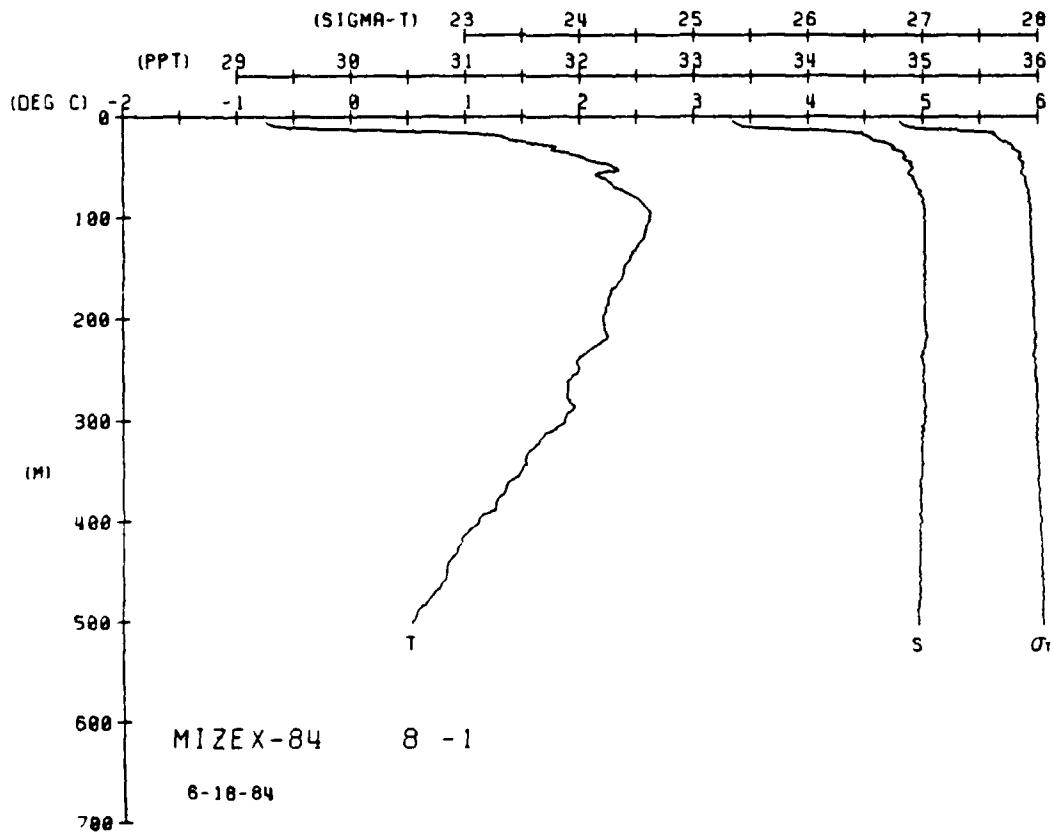
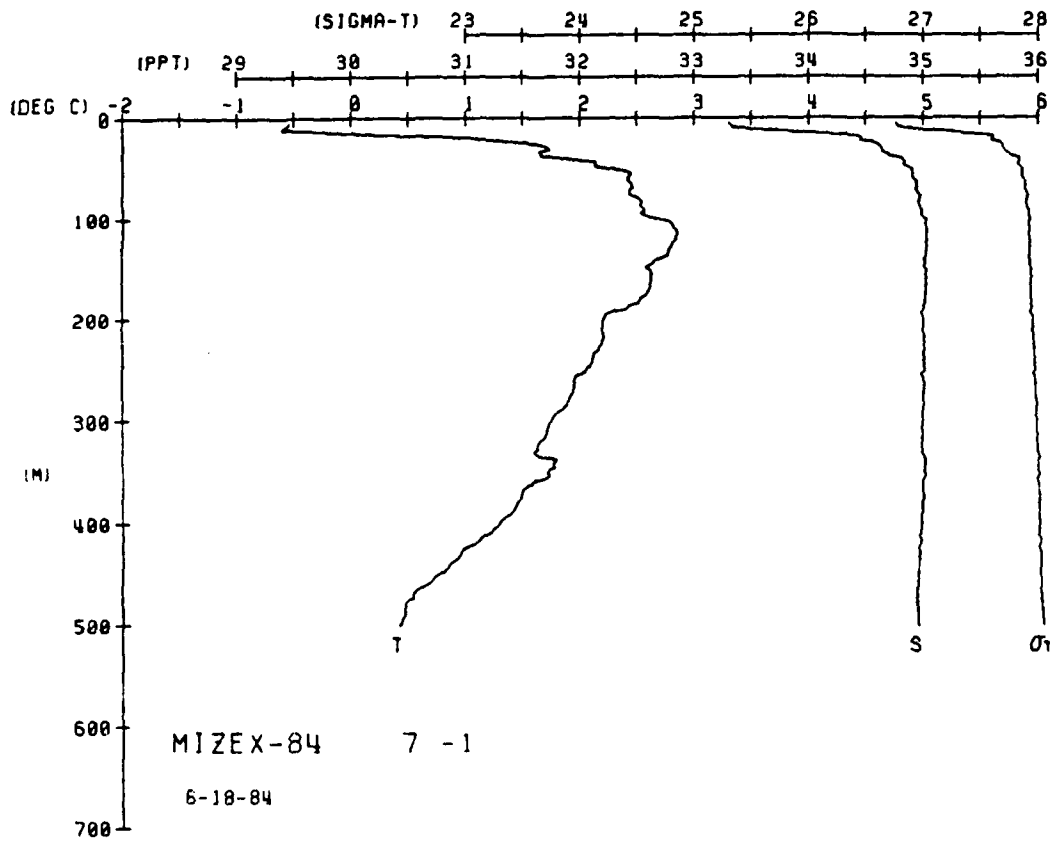
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DINHT	SOUND
0.0	17.70	17.70	35.15	1.00	100.0	00	1499.0
0.5	17.69	17.69	35.15	1.00	100.0	00	1499.0
1.0	17.68	17.68	35.15	1.00	100.0	00	1499.0
1.5	17.67	17.67	35.15	1.00	100.0	00	1499.0
2.0	17.66	17.66	35.15	1.00	100.0	00	1499.0
2.5	17.65	17.65	35.15	1.00	100.0	00	1499.0
3.0	17.64	17.64	35.15	1.00	100.0	00	1499.0
3.5	17.63	17.63	35.15	1.00	100.0	00	1499.0
4.0	17.62	17.62	35.15	1.00	100.0	00	1499.0
4.5	17.61	17.61	35.15	1.00	100.0	00	1499.0
5.0	17.60	17.60	35.15	1.00	100.0	00	1499.0
5.5	17.59	17.59	35.15	1.00	100.0	00	1499.0
6.0	17.58	17.58	35.15	1.00	100.0	00	1499.0
6.5	17.57	17.57	35.15	1.00	100.0	00	1499.0
7.0	17.56	17.56	35.15	1.00	100.0	00	1499.0
7.5	17.55	17.55	35.15	1.00	100.0	00	1499.0
8.0	17.54	17.54	35.15	1.00	100.0	00	1499.0
8.5	17.53	17.53	35.15	1.00	100.0	00	1499.0
9.0	17.52	17.52	35.15	1.00	100.0	00	1499.0
9.5	17.51	17.51	35.15	1.00	100.0	00	1499.0
10.0	17.50	17.50	35.15	1.00	100.0	00	1499.0
10.5	17.49	17.49	35.15	1.00	100.0	00	1499.0
11.0	17.48	17.48	35.15	1.00	100.0	00	1499.0
11.5	17.47	17.47	35.15	1.00	100.0	00	1499.0
12.0	17.46	17.46	35.15	1.00	100.0	00	1499.0
12.5	17.45	17.45	35.15	1.00	100.0	00	1499.0
13.0	17.44	17.44	35.15	1.00	100.0	00	1499.0
13.5	17.43	17.43	35.15	1.00	100.0	00	1499.0
14.0	17.42	17.42	35.15	1.00	100.0	00	1499.0
14.5	17.41	17.41	35.15	1.00	100.0	00	1499.0
15.0	17.40	17.40	35.15	1.00	100.0	00	1499.0
15.5	17.39	17.39	35.15	1.00	100.0	00	1499.0
16.0	17.38	17.38	35.15	1.00	100.0	00	1499.0
16.5	17.37	17.37	35.15	1.00	100.0	00	1499.0
17.0	17.36	17.36	35.15	1.00	100.0	00	1499.0
17.5	17.35	17.35	35.15	1.00	100.0	00	1499.0
18.0	17.34	17.34	35.15	1.00	100.0	00	1499.0
18.5	17.33	17.33	35.15	1.00	100.0	00	1499.0
19.0	17.32	17.32	35.15	1.00	100.0	00	1499.0
19.5	17.31	17.31	35.15	1.00	100.0	00	1499.0
20.0	17.30	17.30	35.15	1.00	100.0	00	1499.0
20.5	17.29	17.29	35.15	1.00	100.0	00	1499.0
21.0	17.28	17.28	35.15	1.00	100.0	00	1499.0
21.5	17.27	17.27	35.15	1.00	100.0	00	1499.0
22.0	17.26	17.26	35.15	1.00	100.0	00	1499.0
22.5	17.25	17.25	35.15	1.00	100.0	00	1499.0
23.0	17.24	17.24	35.15	1.00	100.0	00	1499.0
23.5	17.23	17.23	35.15	1.00	100.0	00	1499.0
24.0	17.22	17.22	35.15	1.00	100.0	00	1499.0
24.5	17.21	17.21	35.15	1.00	100.0	00	1499.0
25.0	17.20	17.20	35.15	1.00	100.0	00	1499.0
25.5	17.19	17.19	35.15	1.00	100.0	00	1499.0
26.0	17.18	17.18	35.15	1.00	100.0	00	1499.0
26.5	17.17	17.17	35.15	1.00	100.0	00	1499.0
27.0	17.16	17.16	35.15	1.00	100.0	00	1499.0
27.5	17.15	17.15	35.15	1.00	100.0	00	1499.0
28.0	17.14	17.14	35.15	1.00	100.0	00	1499.0
28.5	17.13	17.13	35.15	1.00	100.0	00	1499.0
29.0	17.12	17.12	35.15	1.00	100.0	00	1499.0
29.5	17.11	17.11	35.15	1.00	100.0	00	1499.0
30.0	17.10	17.10	35.15	1.00	100.0	00	1499.0
30.5	17.09	17.09	35.15	1.00	100.0	00	1499.0
31.0	17.08	17.08	35.15	1.00	100.0	00	1499.0
31.5	17.07	17.07	35.15	1.00	100.0	00	1499.0
32.0	17.06	17.06	35.15	1.00	100.0	00	1499.0
32.5	17.05	17.05	35.15	1.00	100.0	00	1499.0
33.0	17.04	17.04	35.15	1.00	100.0	00	1499.0
33.5	17.03	17.03	35.15	1.00	100.0	00	1499.0
34.0	17.02	17.02	35.15	1.00	100.0	00	1499.0
34.5	17.01	17.01	35.15	1.00	100.0	00	1499.0
35.0	17.00	17.00	35.15	1.00	100.0	00	1499.0
35.5	16.99	16.99	35.15	1.00	100.0	00	1499.0
36.0	16.98	16.98	35.15	1.00	100.0	00	1499.0
36.5	16.97	16.97	35.15	1.00	100.0	00	1499.0
37.0	16.96	16.96	35.15	1.00	100.0	00	1499.0
37.5	16.95	16.95	35.15	1.00	100.0	00	1499.0
38.0	16.94	16.94	35.15	1.00	100.0	00	1499.0
38.5	16.93	16.93	35.15	1.00	100.0	00	1499.0
39.0	16.92	16.92	35.15	1.00	100.0	00	1499.0
39.5	16.91	16.91	35.15	1.00	100.0	00	1499.0
40.0	16.90	16.90	35.15	1.00	100.0	00	1499.0
40.5	16.89	16.89	35.15	1.00	100.0	00	1499.0
41.0	16.88	16.88	35.15	1.00	100.0	00	1499.0
41.5	16.87	16.87	35.15	1.00	100.0	00	1499.0
42.0	16.86	16.86	35.15	1.00	100.0	00	1499.0
42.5	16.85	16.85	35.15	1.00	100.0	00	1499.0
43.0	16.84	16.84	35.15	1.00	100.0	00	1499.0
43.5	16.83	16.83	35.15	1.00	100.0	00	1499.0
44.0	16.82	16.82	35.15	1.00	100.0	00	1499.0
44.5	16.81	16.81	35.15	1.00	100.0	00	1499.0
45.0	16.80	16.80	35.15	1.00	100.0	00	1499.0
45.5	16.79	16.79	35.15	1.00	100.0	00	1499.0
46.0	16.78	16.78	35.15	1.00	100.0	00	1499.0
46.5	16.77	16.77	35.15	1.00	100.0	00	1499.0
47.0	16.76	16.76	35.15	1.00	100.0	00	1499.0
47.5	16.75	16.75	35.15	1.00	100.0	00	1499.0
48.0	16.74	16.74	35.15	1.00	100.0	00	1499.0
48.5	16.73	16.73	35.15	1.00	100.0	00	1499.0
49.0	16.72	16.72	35.15	1.00	100.0	00	1499.0
49.5	16.71	16.71	35.15	1.00	100.0	00	1499.0
50.0	16.70	16.70	35.15	1.00	100.0	00	1499.0



MIXEX-84 STATION 7(1) CTD 18/JUN/1984 1441 GMT CODE = 1
LAT = 80.4000N LMG = 9.1000E LTER = 300 LGER = 300
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

MIXEX-84 STATION 8(1) CTD 18/JUN/1984 1552 GMT CODE = 1
LAT = 80.4700N LMG = 9.1400E LTER = 300 LGER = 300
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

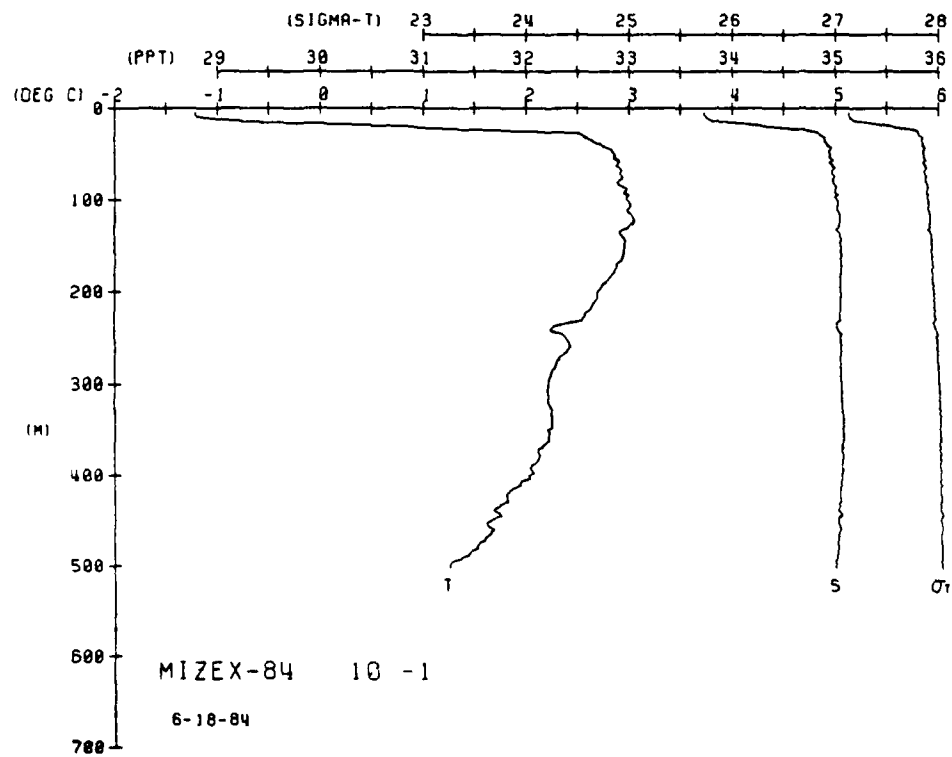
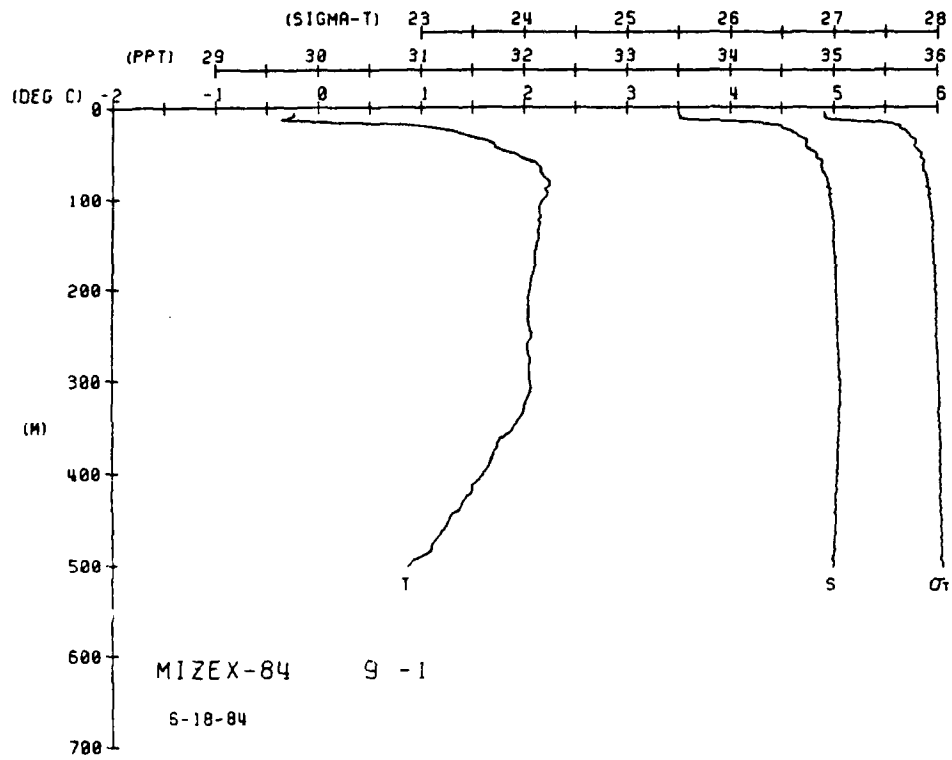
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHHT	SOUND
0	4	0	33	0	4	000	144
1	4	0	33	0	4	000	144
2	4	0	33	0	4	000	144
3	4	0	33	0	4	000	144
4	4	0	33	0	4	000	144
5	4	0	33	0	4	000	144
6	4	0	33	0	4	000	144
7	4	0	33	0	4	000	144
8	4	0	33	0	4	000	144
9	4	0	33	0	4	000	144
10	4	0	33	0	4	000	144
11	4	0	33	0	4	000	144
12	4	0	33	0	4	000	144
13	4	0	33	0	4	000	144
14	4	0	33	0	4	000	144
15	4	0	33	0	4	000	144
16	4	0	33	0	4	000	144
17	4	0	33	0	4	000	144
18	4	0	33	0	4	000	144
19	4	0	33	0	4	000	144
20	4	0	33	0	4	000	144
21	4	0	33	0	4	000	144
22	4	0	33	0	4	000	144
23	4	0	33	0	4	000	144
24	4	0	33	0	4	000	144
25	4	0	33	0	4	000	144
26	4	0	33	0	4	000	144
27	4	0	33	0	4	000	144
28	4	0	33	0	4	000	144
29	4	0	33	0	4	000	144
30	4	0	33	0	4	000	144
31	4	0	33	0	4	000	144
32	4	0	33	0	4	000	144
33	4	0	33	0	4	000	144
34	4	0	33	0	4	000	144
35	4	0	33	0	4	000	144
36	4	0	33	0	4	000	144
37	4	0	33	0	4	000	144
38	4	0	33	0	4	000	144
39	4	0	33	0	4	000	144
40	4	0	33	0	4	000	144
41	4	0	33	0	4	000	144
42	4	0	33	0	4	000	144
43	4	0	33	0	4	000	144
44	4	0	33	0	4	000	144
45	4	0	33	0	4	000	144
46	4	0	33	0	4	000	144
47	4	0	33	0	4	000	144
48	4	0	33	0	4	000	144
49	4	0	33	0	4	000	144
50	4	0	33	0	4	000	144
51	4	0	33	0	4	000	144
52	4	0	33	0	4	000	144
53	4	0	33	0	4	000	144
54	4	0	33	0	4	000	144
55	4	0	33	0	4	000	144
56	4	0	33	0	4	000	144
57	4	0	33	0	4	000	144
58	4	0	33	0	4	000	144
59	4	0	33	0	4	000	144
60	4	0	33	0	4	000	144
61	4	0	33	0	4	000	144
62	4	0	33	0	4	000	144
63	4	0	33	0	4	000	144
64	4	0	33	0	4	000	144
65	4	0	33	0	4	000	144
66	4	0	33	0	4	000	144
67	4	0	33	0	4	000	144
68	4	0	33	0	4	000	144
69	4	0	33	0	4	000	144
70	4	0	33	0	4	000	144
71	4	0	33	0	4	000	144
72	4	0	33	0	4	000	144
73	4	0	33	0	4	000	144
74	4	0	33	0	4	000	144
75	4	0	33	0	4	000	144
76	4	0	33	0	4	000	144
77	4	0	33	0	4	000	144
78	4	0	33	0	4	000	144
79	4	0	33	0	4	000	144
80	4	0	33	0	4	000	144
81	4	0	33	0	4	000	144
82	4	0	33	0	4	000	144
83	4	0	33	0	4	000	144
84	4	0	33	0	4	000	144
85	4	0	33	0	4	000	144
86	4	0	33	0	4	000	144
87	4	0	33	0	4	000	144
88	4	0	33	0	4	000	144
89	4	0	33	0	4	000	144
90	4	0	33	0	4	000	144
91	4	0	33	0	4	000	144
92	4	0	33	0	4	000	144
93	4	0	33	0	4	000	144
94	4	0	33	0	4	000	144
95	4	0	33	0	4	000	144
96	4	0	33	0	4	000	144
97	4	0	33	0	4	000	144
98	4	0	33	0	4	000	144
99	4	0	33	0	4	000	144
100	4	0	33	0	4	000	144

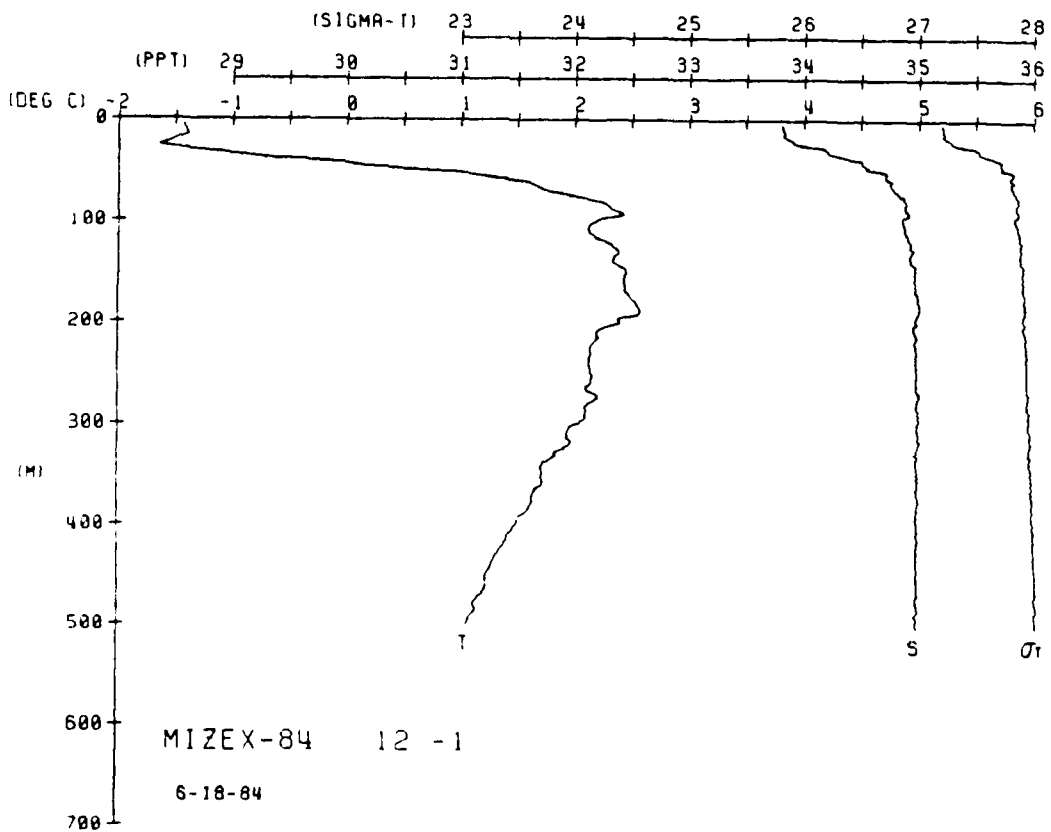
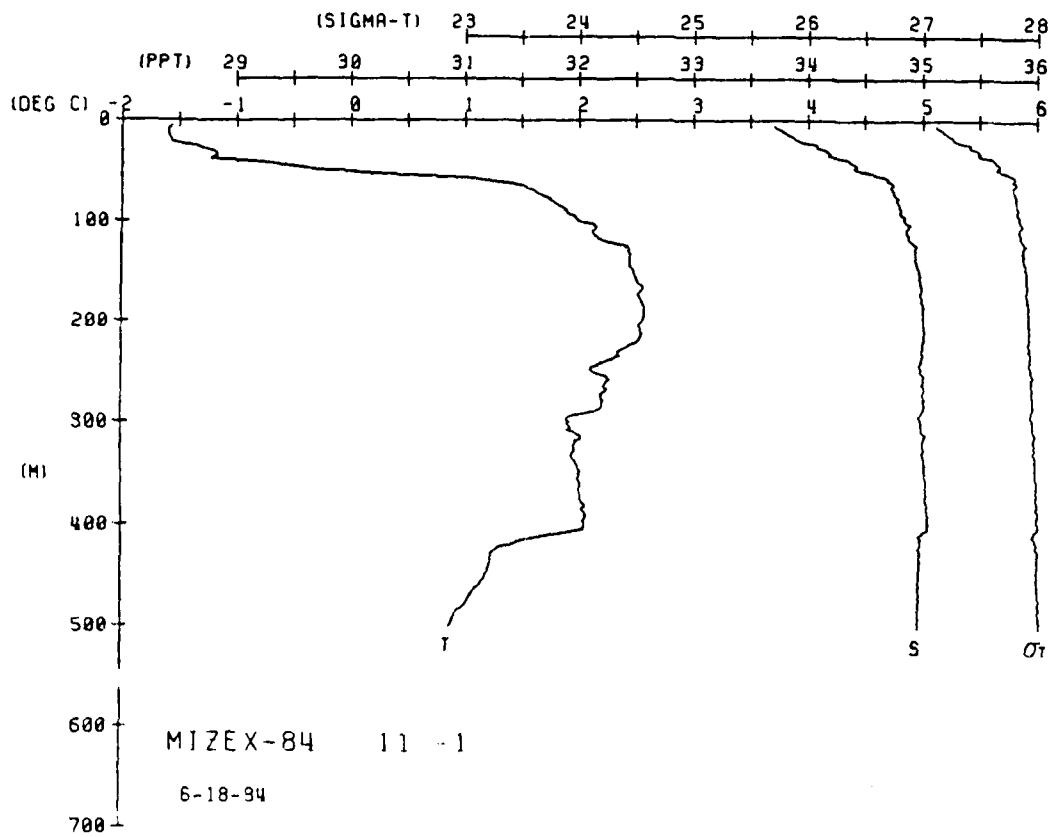


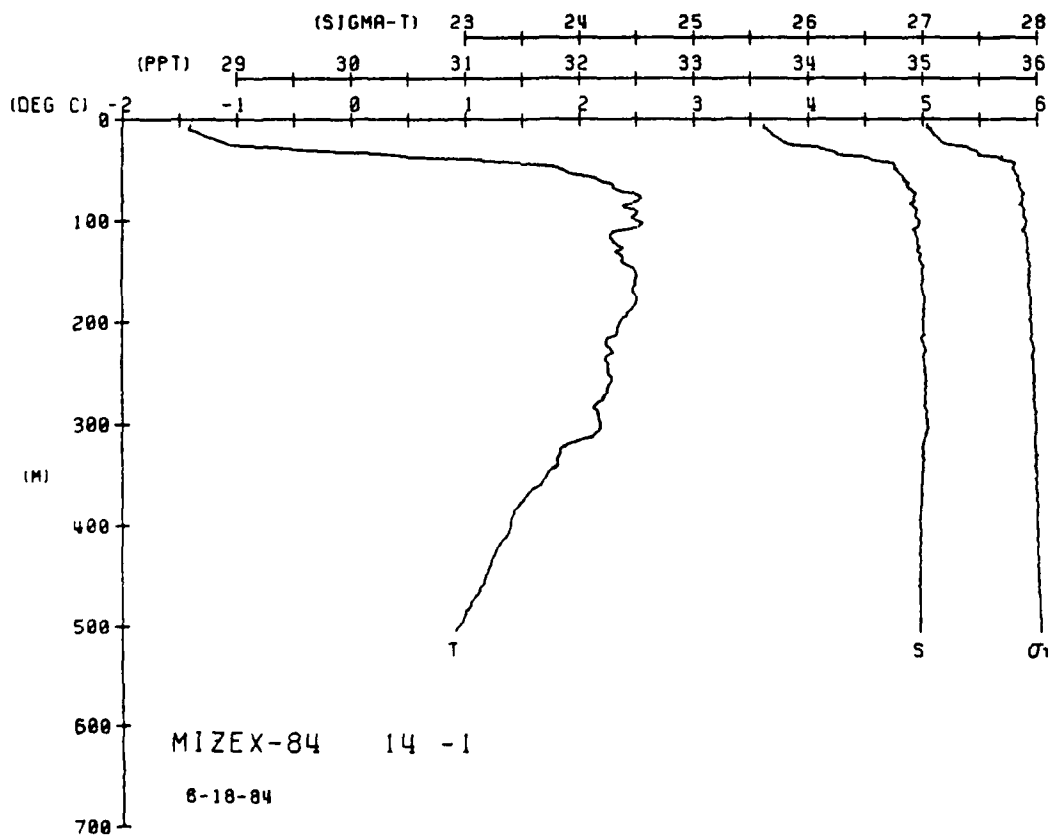
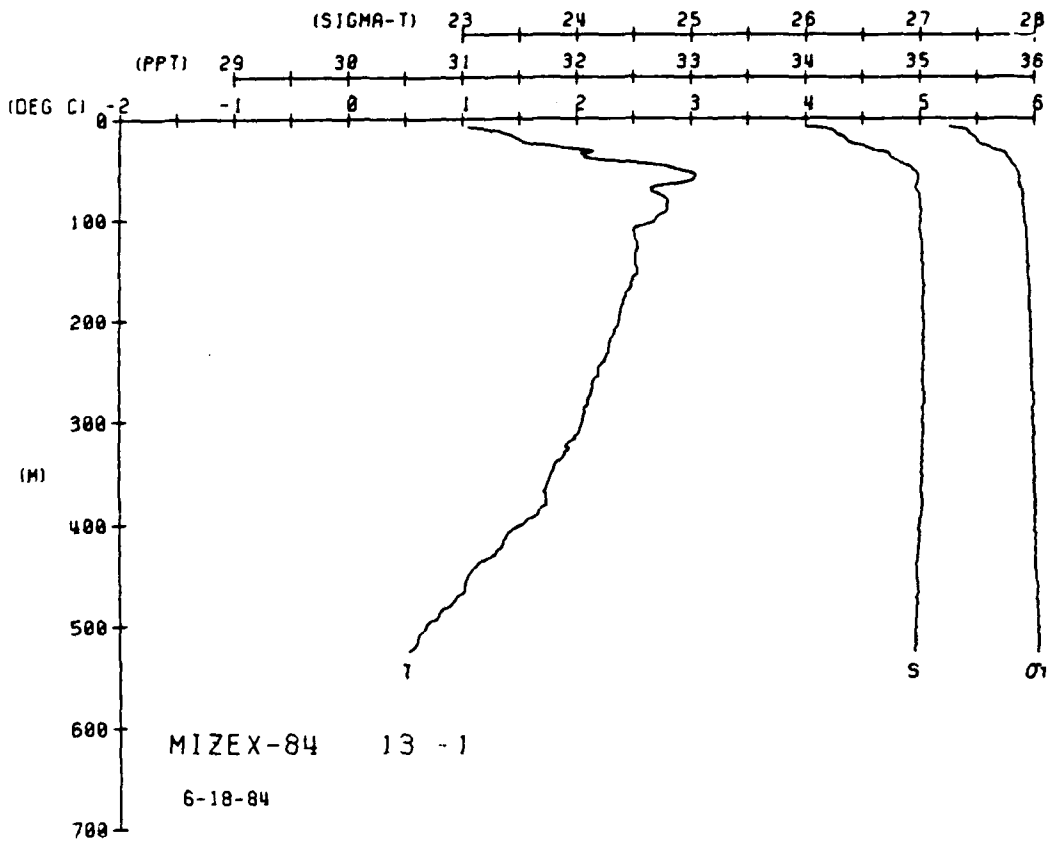
MIZEX-84 STATION 9(1) CTD 19/JUN/1984 1643 GMT CODE = 1
LAT = 80.5333N LNC = 6.8667E LTER = 400. UGER = 400.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

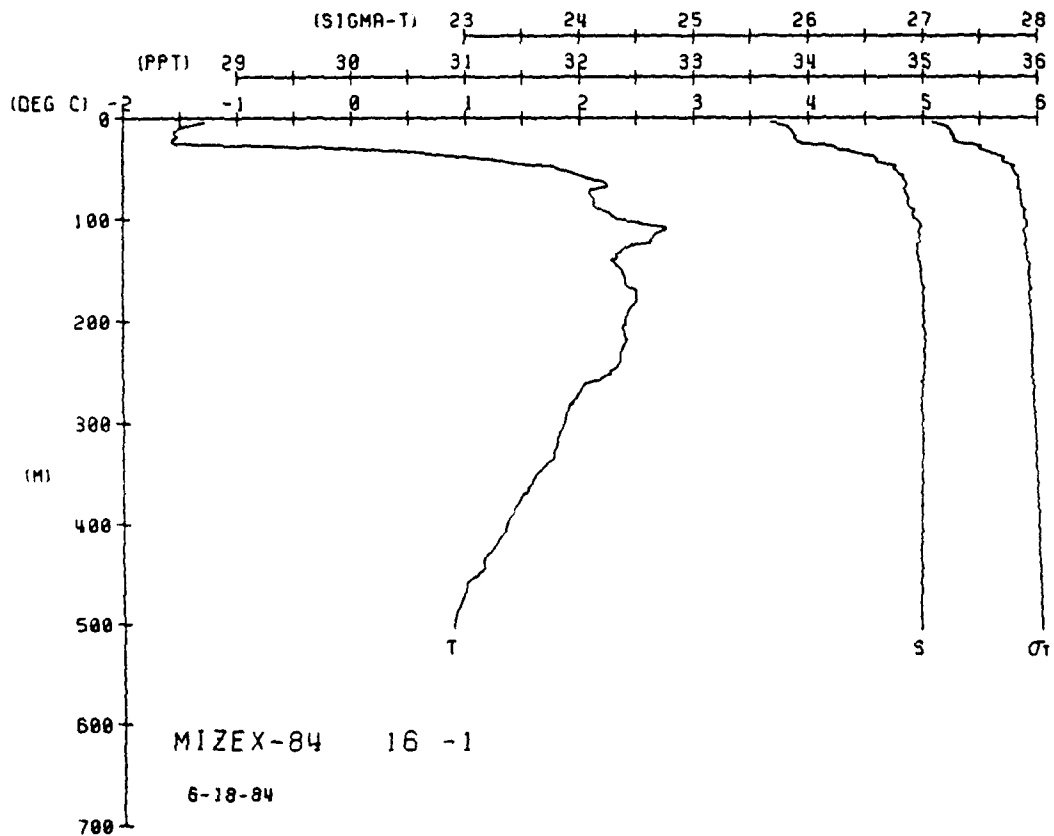
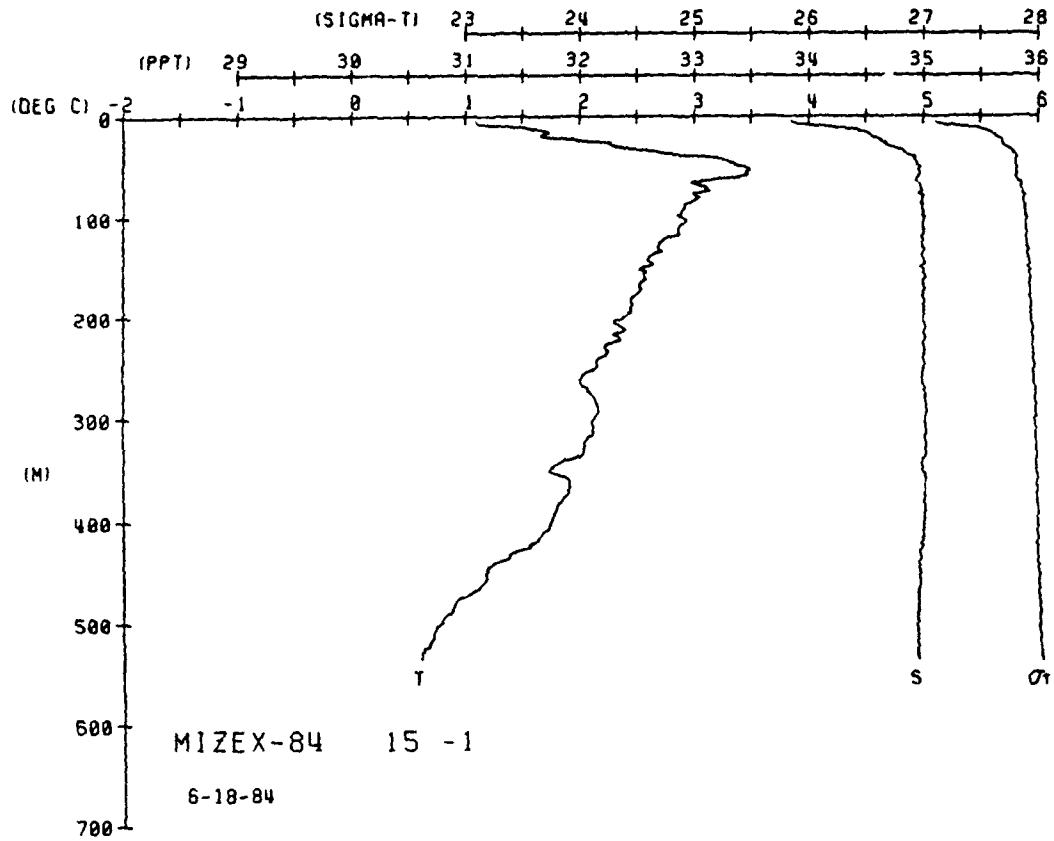
MIZEX-84 STATION 10(1) CTD 18/JUN/1984 1753 GMT CODE = 1
LAT = 80.5667N LNC = 6.7500E LTER = 400. UGER = 400.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

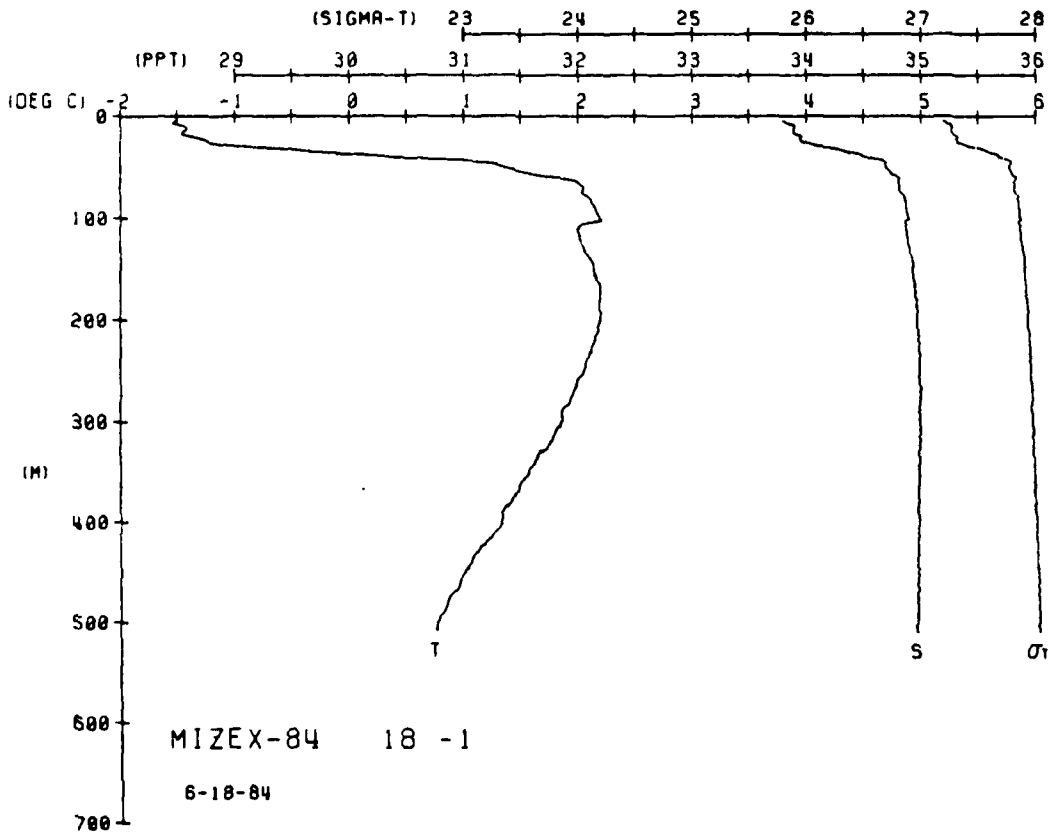
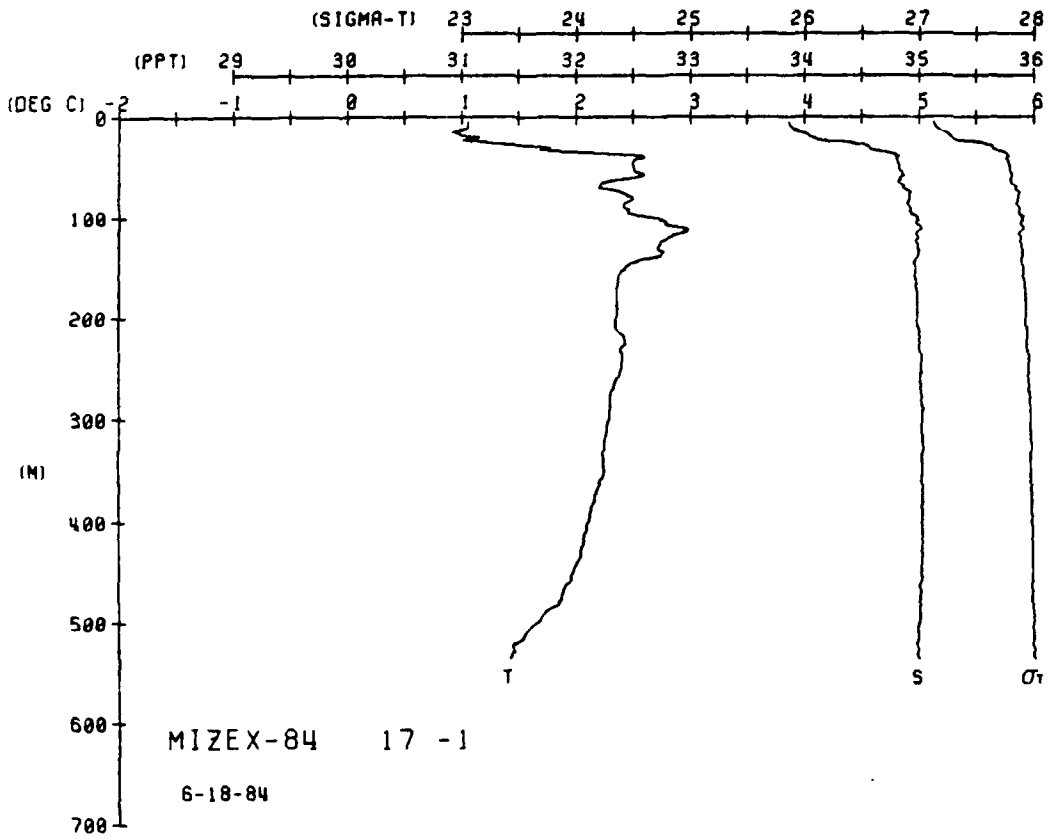
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DIMHT	SOUND
0	1.1	1.1	33.3	1.1	1.1	0.0	1.1
1	1.1	1.1	33.3	1.1	1.1	0.0	1.1
2	1.1	1.1	33.3	1.1	1.1	0.0	1.1
3	1.1	1.1	33.3	1.1	1.1	0.0	1.1
4	1.1	1.1	33.3	1.1	1.1	0.0	1.1
5	1.1	1.1	33.3	1.1	1.1	0.0	1.1
6	1.1	1.1	33.3	1.1	1.1	0.0	1.1
7	1.1	1.1	33.3	1.1	1.1	0.0	1.1
8	1.1	1.1	33.3	1.1	1.1	0.0	1.1
9	1.1	1.1	33.3	1.1	1.1	0.0	1.1
10	1.1	1.1	33.3	1.1	1.1	0.0	1.1
11	1.1	1.1	33.3	1.1	1.1	0.0	1.1
12	1.1	1.1	33.3	1.1	1.1	0.0	1.1
13	1.1	1.1	33.3	1.1	1.1	0.0	1.1
14	1.1	1.1	33.3	1.1	1.1	0.0	1.1
15	1.1	1.1	33.3	1.1	1.1	0.0	1.1
16	1.1	1.1	33.3	1.1	1.1	0.0	1.1
17	1.1	1.1	33.3	1.1	1.1	0.0	1.1
18	1.1	1.1	33.3	1.1	1.1	0.0	1.1
19	1.1	1.1	33.3	1.1	1.1	0.0	1.1
20	1.1	1.1	33.3	1.1	1.1	0.0	1.1
21	1.1	1.1	33.3	1.1	1.1	0.0	1.1
22	1.1	1.1	33.3	1.1	1.1	0.0	1.1
23	1.1	1.1	33.3	1.1	1.1	0.0	1.1
24	1.1	1.1	33.3	1.1	1.1	0.0	1.1
25	1.1	1.1	33.3	1.1	1.1	0.0	1.1
26	1.1	1.1	33.3	1.1	1.1	0.0	1.1
27	1.1	1.1	33.3	1.1	1.1	0.0	1.1
28	1.1	1.1	33.3	1.1	1.1	0.0	1.1
29	1.1	1.1	33.3	1.1	1.1	0.0	1.1
30	1.1	1.1	33.3	1.1	1.1	0.0	1.1
31	1.1	1.1	33.3	1.1	1.1	0.0	1.1
32	1.1	1.1	33.3	1.1	1.1	0.0	1.1
33	1.1	1.1	33.3	1.1	1.1	0.0	1.1
34	1.1	1.1	33.3	1.1	1.1	0.0	1.1
35	1.1	1.1	33.3	1.1	1.1	0.0	1.1
36	1.1	1.1	33.3	1.1	1.1	0.0	1.1
37	1.1	1.1	33.3	1.1	1.1	0.0	1.1
38	1.1	1.1	33.3	1.1	1.1	0.0	1.1
39	1.1	1.1	33.3	1.1	1.1	0.0	1.1
40	1.1	1.1	33.3	1.1	1.1	0.0	1.1
41	1.1	1.1	33.3	1.1	1.1	0.0	1.1
42	1.1	1.1	33.3	1.1	1.1	0.0	1.1
43	1.1	1.1	33.3	1.1	1.1	0.0	1.1
44	1.1	1.1	33.3	1.1	1.1	0.0	1.1
45	1.1	1.1	33.3	1.1	1.1	0.0	1.1
46	1.1	1.1	33.3	1.1	1.1	0.0	1.1
47	1.1	1.1	33.3	1.1	1.1	0.0	1.1
48	1.1	1.1	33.3	1.1	1.1	0.0	1.1
49	1.1	1.1	33.3	1.1	1.1	0.0	1.1
50	1.1	1.1	33.3	1.1	1.1	0.0	1.1
51	1.1	1.1	33.3	1.1	1.1	0.0	1.1
52	1.1	1.1	33.3	1.1	1.1	0.0	1.1
53	1.1	1.1	33.3	1.1	1.1	0.0	1.1
54	1.1	1.1	33.3	1.1	1.1	0.0	1.1
55	1.1	1.1	33.3	1.1	1.1	0.0	1.1
56	1.1	1.1	33.3	1.1	1.1	0.0	1.1
57	1.1	1.1	33.3	1.1	1.1	0.0	1.1
58	1.1	1.1	33.3	1.1	1.1	0.0	1.1
59	1.1	1.1	33.3	1.1	1.1	0.0	1.1
60	1.1	1.1	33.3	1.1	1.1	0.0	1.1
61	1.1	1.1	33.3	1.1	1.1	0.0	1.1
62	1.1	1.1	33.3	1.1	1.1	0.0	1.1
63	1.1	1.1	33.3	1.1	1.1	0.0	1.1
64	1.1	1.1	33.3	1.1	1.1	0.0	1.1
65	1.1	1.1	33.3	1.1	1.1	0.0	1.1
66	1.1	1.1	33.3	1.1	1.1	0.0	1.1
67	1.1	1.1	33.3	1.1	1.1	0.0	1.1
68	1.1	1.1	33.3	1.1	1.1	0.0	1.1
69	1.1	1.1	33.3	1.1	1.1	0.0	1.1
70	1.1	1.1	33.3	1.1	1.1	0.0	1.1
71	1.1	1.1	33.3	1.1	1.1	0.0	1.1
72	1.1	1.1	33.3	1.1	1.1	0.0	1.1
73	1.1	1.1	33.3	1.1	1.1	0.0	1.1
74	1.1	1.1	33.3	1.1	1.1	0.0	1.1
75	1.1	1.1	33.3	1.1	1.1	0.0	1.1
76	1.1	1.1	33.3	1.1	1.1	0.0	1.1
77	1.1	1.1	33.3	1.1	1.1	0.0	1.1
78	1.1	1.1	33.3	1.1	1.1	0.0	1.1
79	1.1	1.1	33.3	1.1	1.1	0.0	1.1
80	1.1	1.1	33.3	1.1	1.1	0.0	1.1
81	1.1	1.1	33.3	1.1	1.1	0.0	1.1
82	1.1	1.1	33.3	1.1	1.1	0.0	1.1
83	1.1	1.1	33.3	1.1	1.1	0.0	1.1
84	1.1	1.1	33.3	1.1	1.1	0.0	1.1
85	1.1	1.1	33.3	1.1	1.1	0.0	1.1
86	1.1	1.1	33.3	1.1	1.1	0.0	1.1
87	1.1	1.1	33.3	1.1	1.1	0.0	1.1
88	1.1	1.1	33.3	1.1	1.1	0.0	1.1
89	1.1	1.1	33.3	1.1	1.1	0.0	1.1
90	1.1	1.1	33.3	1.1	1.1	0.0	1.1
91	1.1	1.1	33.3	1.1	1.1	0.0	1.1
92	1.1	1.1	33.3	1.1	1.1	0.0	1.1
93	1.1	1.1	33.3	1.1	1.1	0.0	1.1
94	1.1	1.1	33.3	1.1	1.1	0.0	1.1
95	1.1	1.1	33.3	1.1	1.1	0.0	1.1
96	1.1	1.1	33.3	1.1	1.1	0.0	1.1
97	1.1	1.1	33.3	1.1	1.1	0.0	1.1
98	1.1	1.1	33.3	1.1	1.1	0.0	1.1
99	1.1	1.1	33.3	1.1	1.1	0.0	1.1
100	1.1	1.1	33.3	1.1	1.1	0.0	1.1

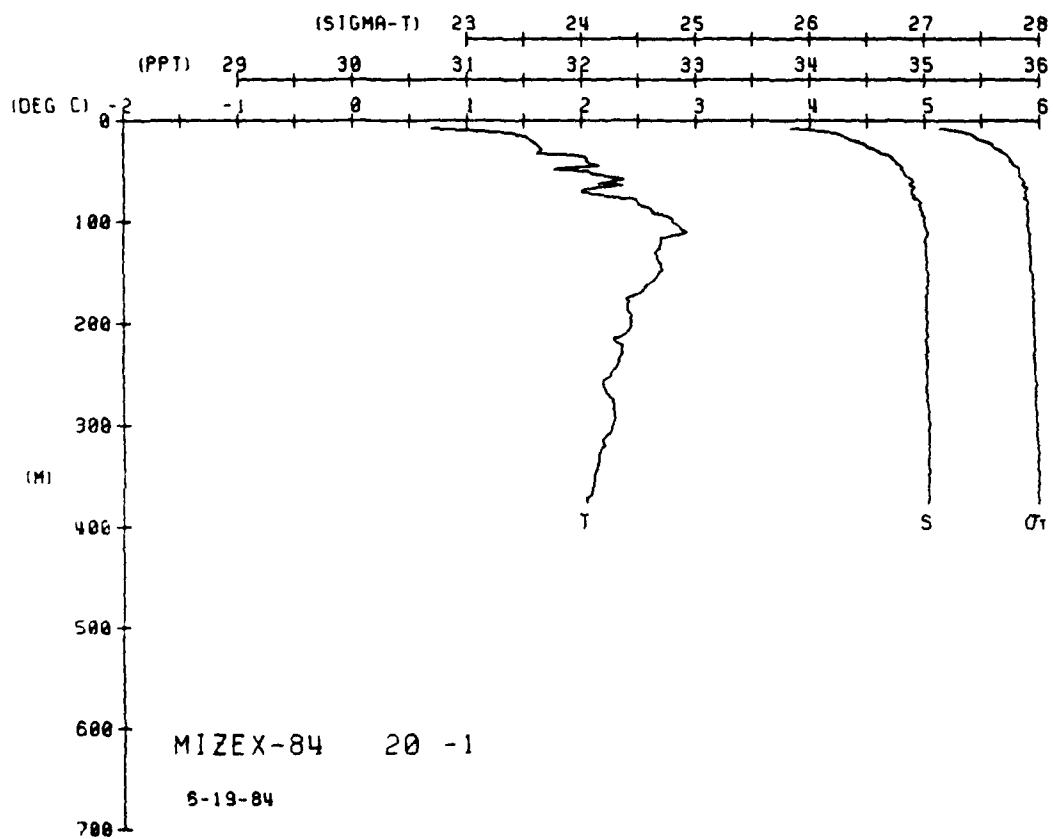
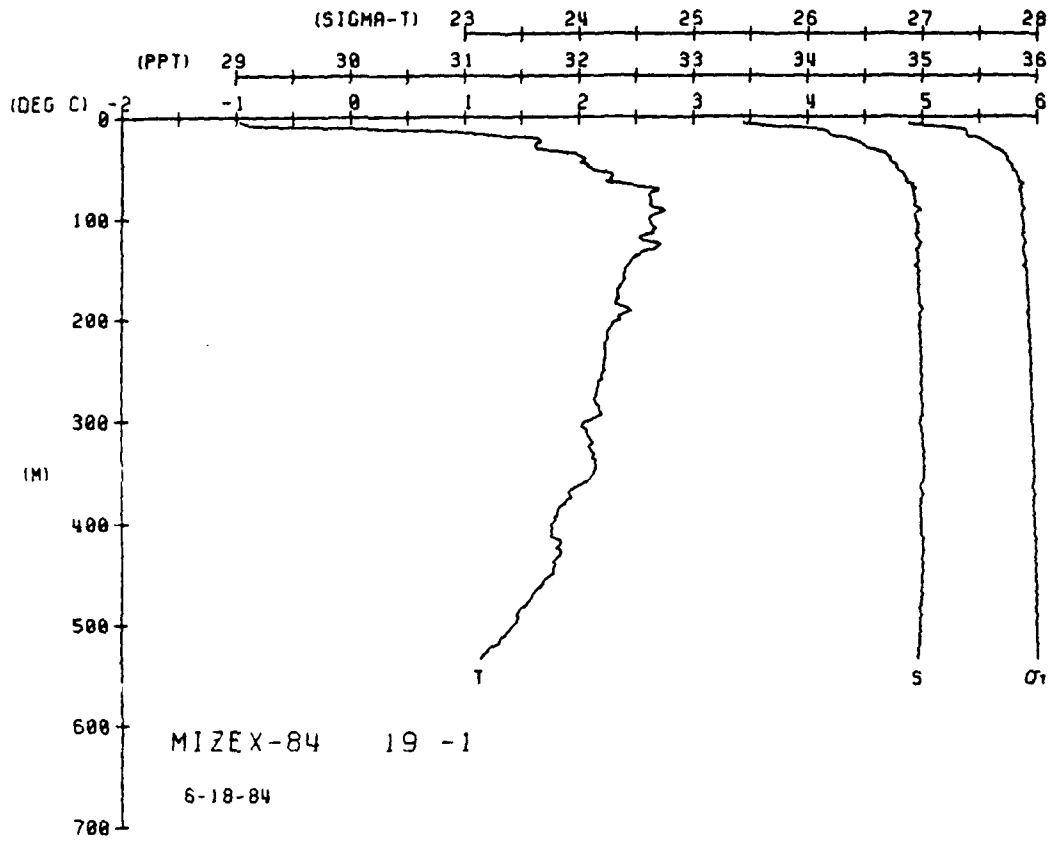


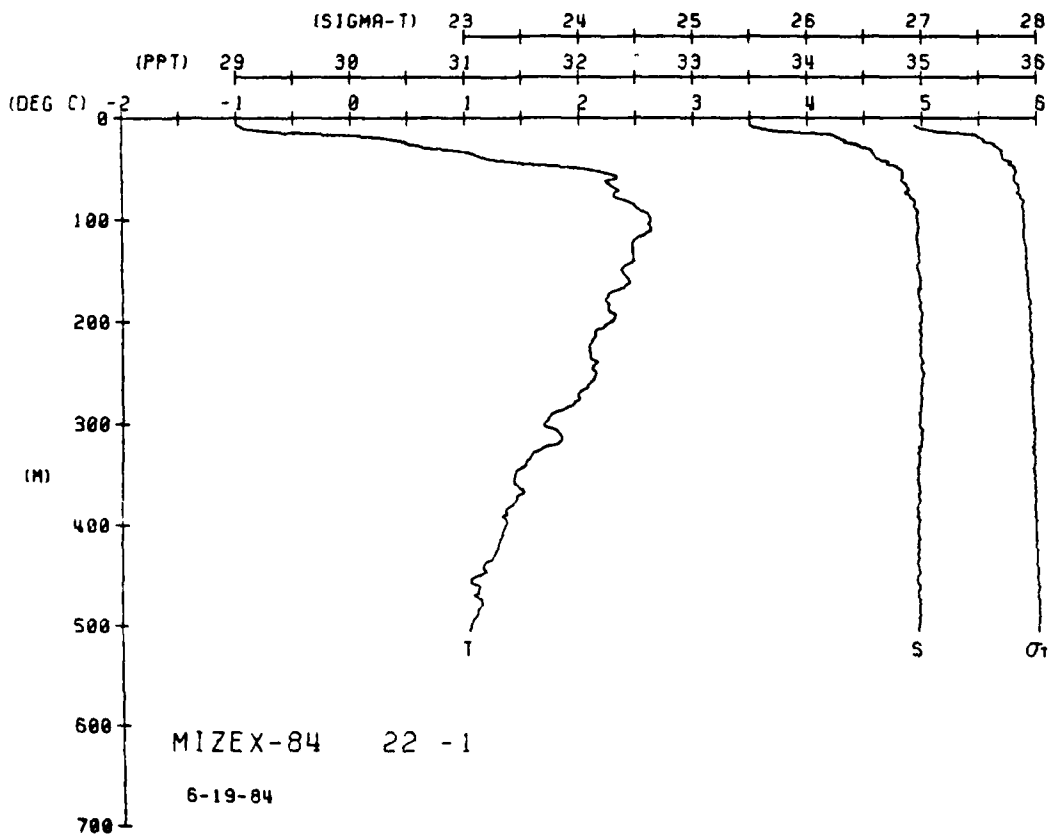
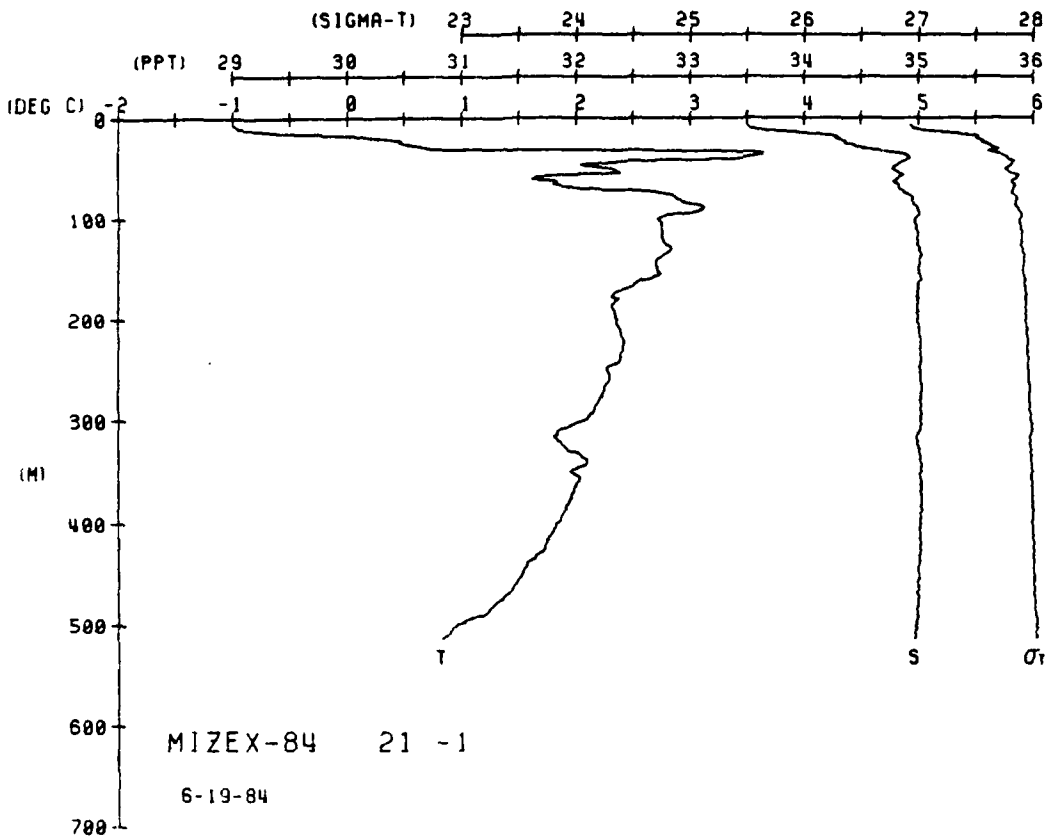


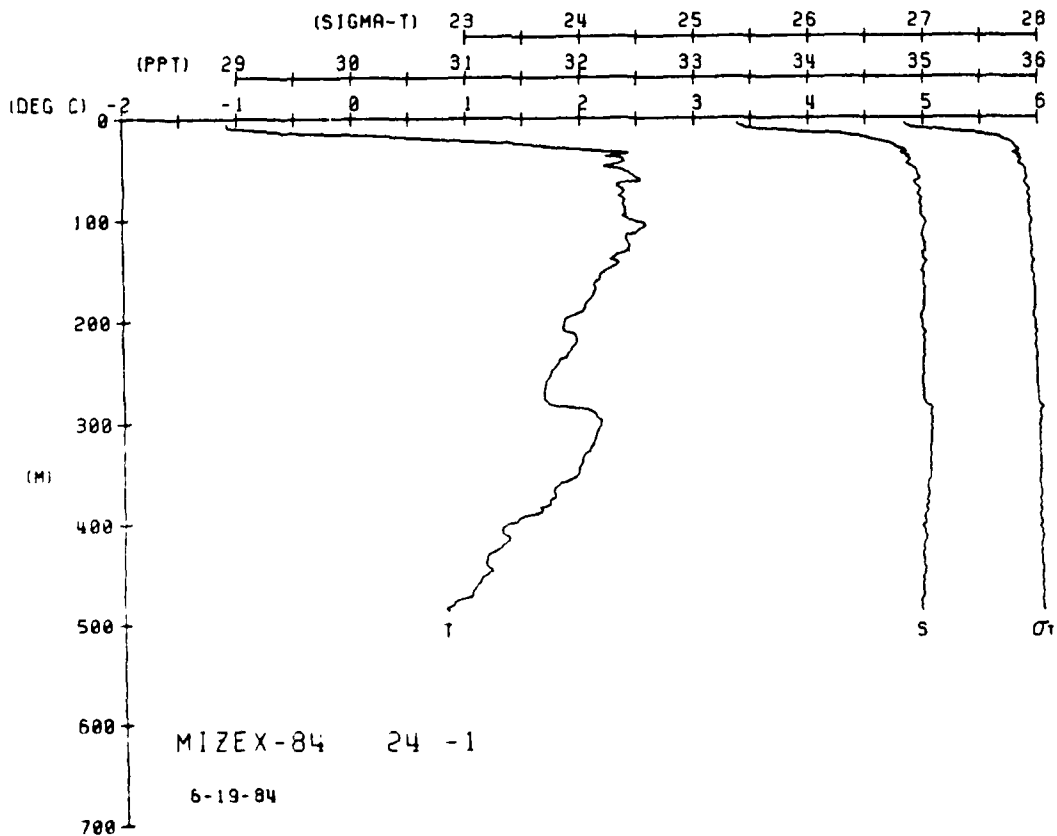
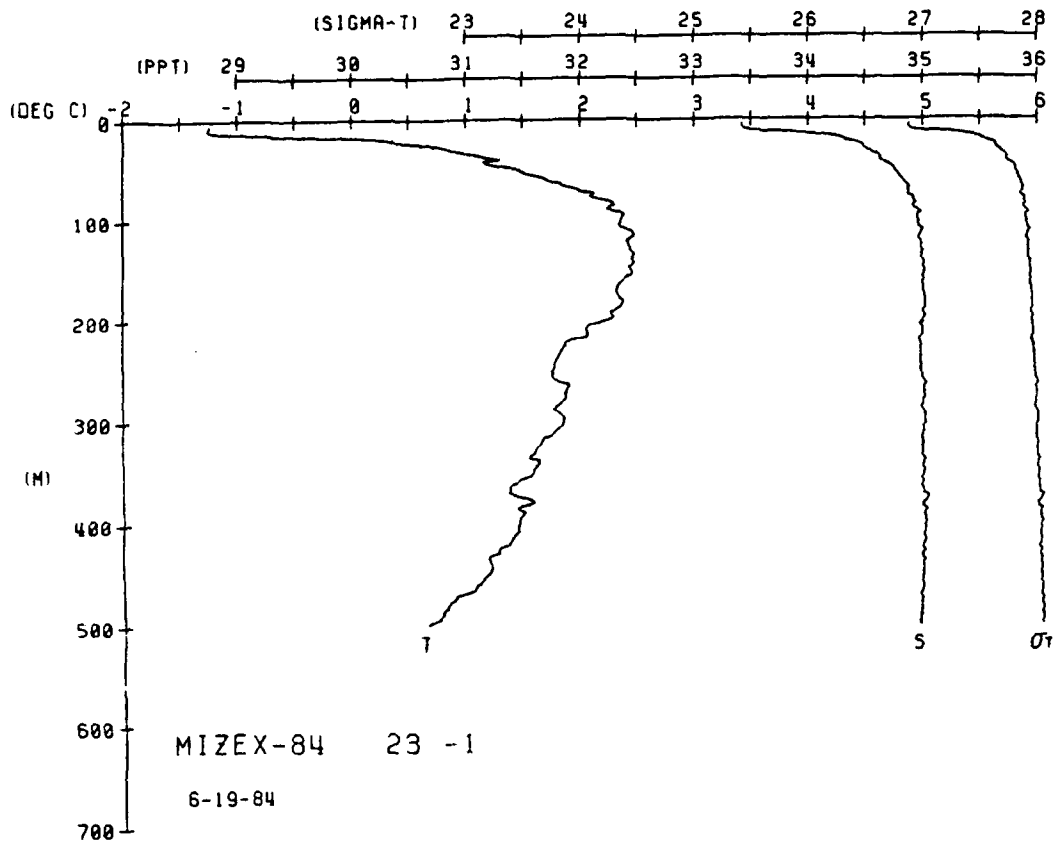


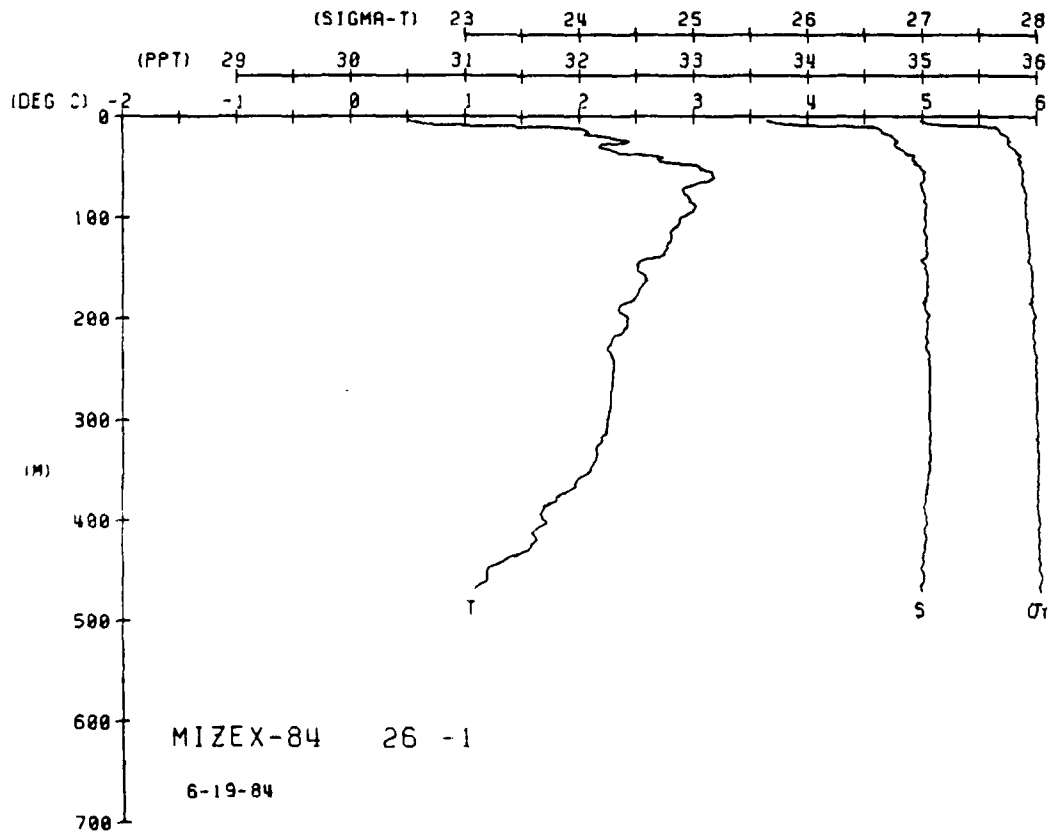
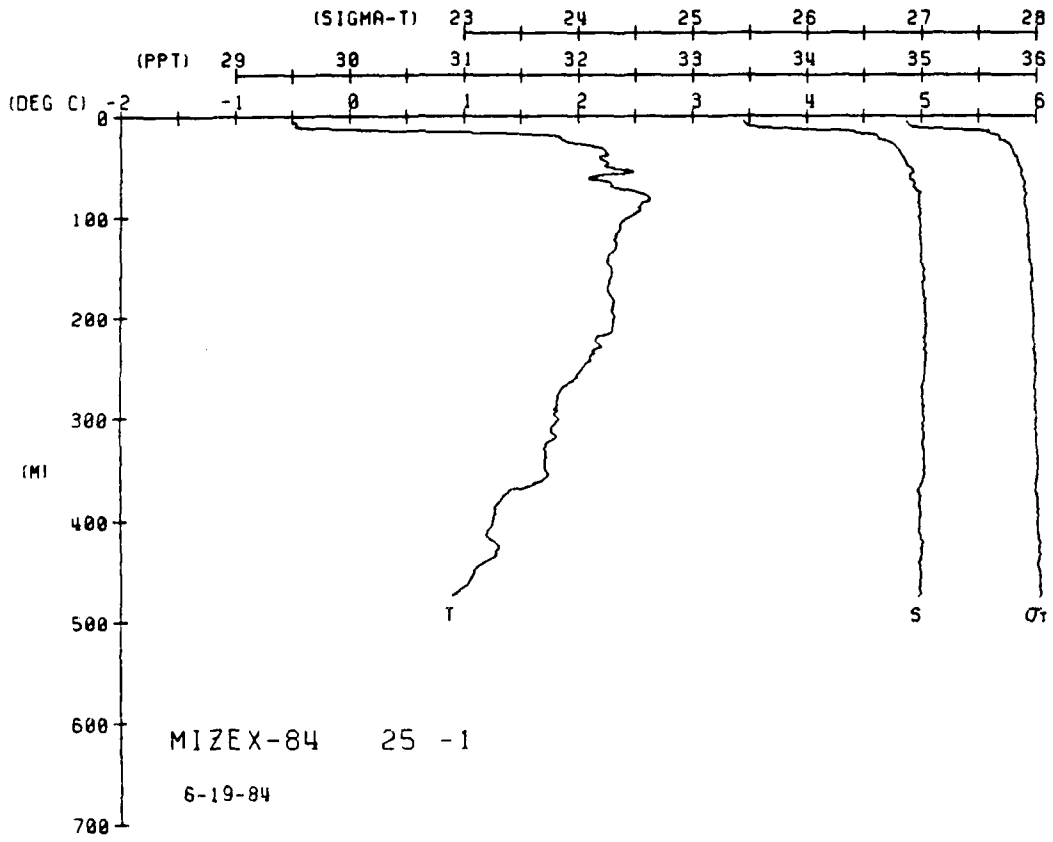








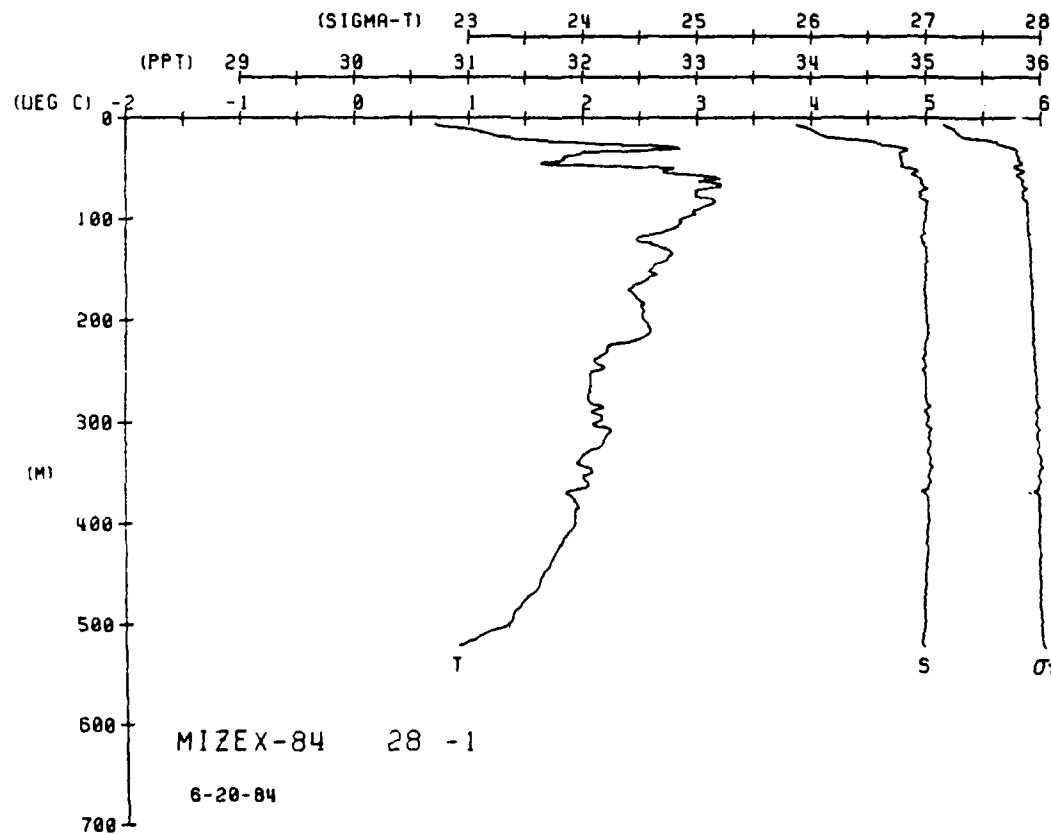
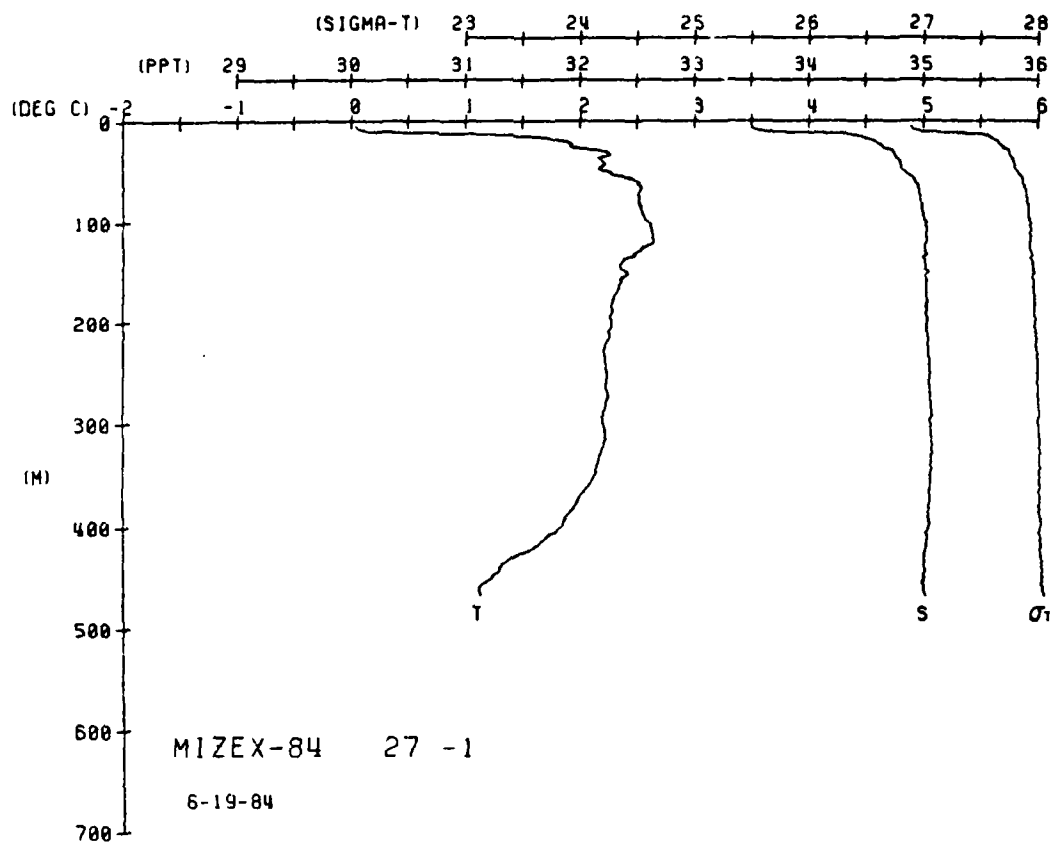


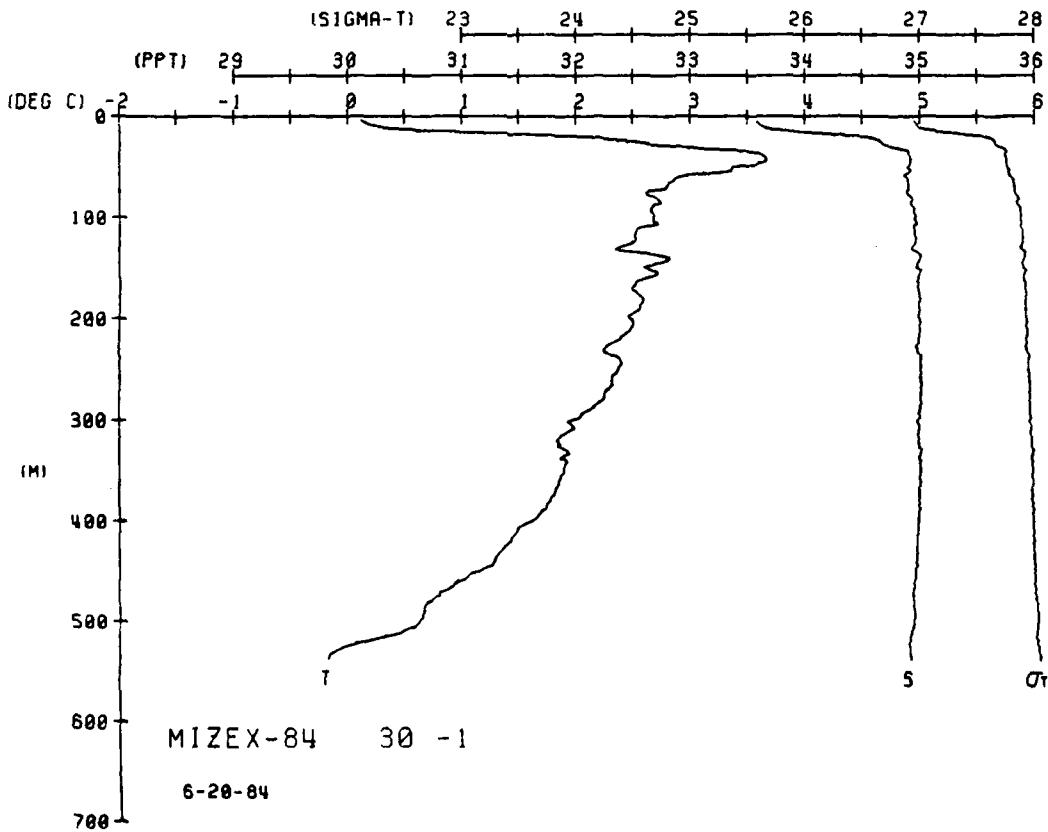
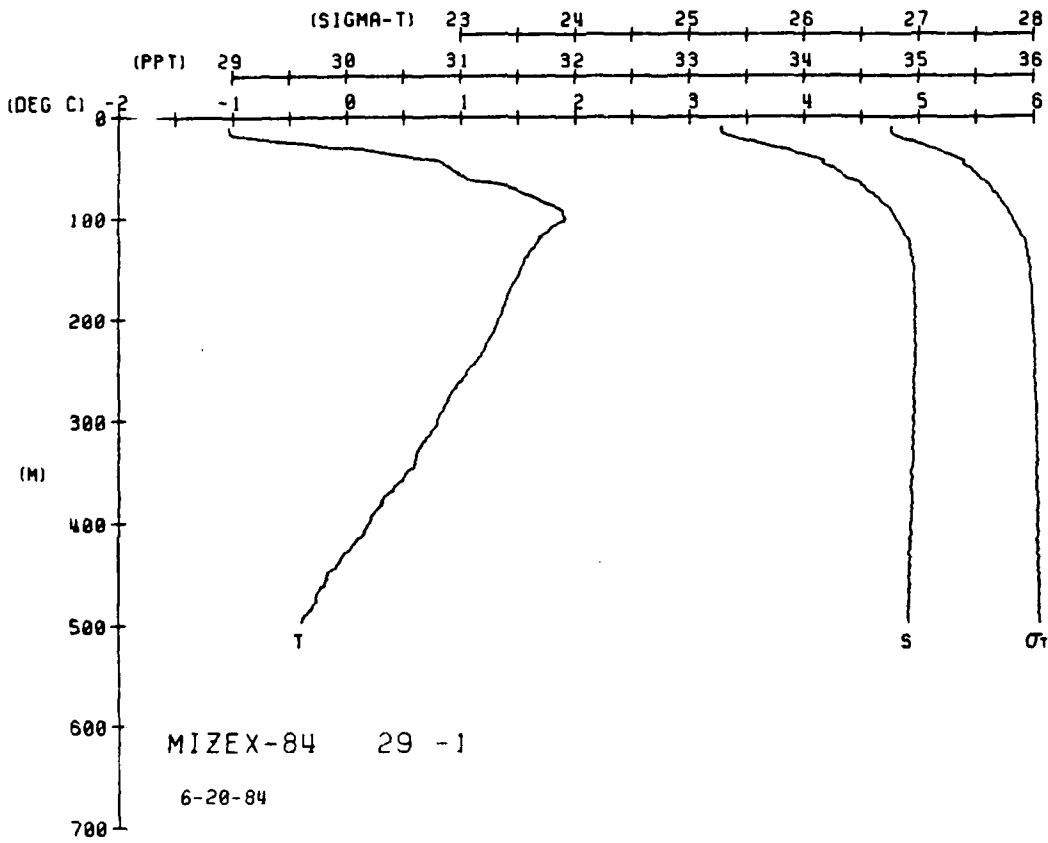


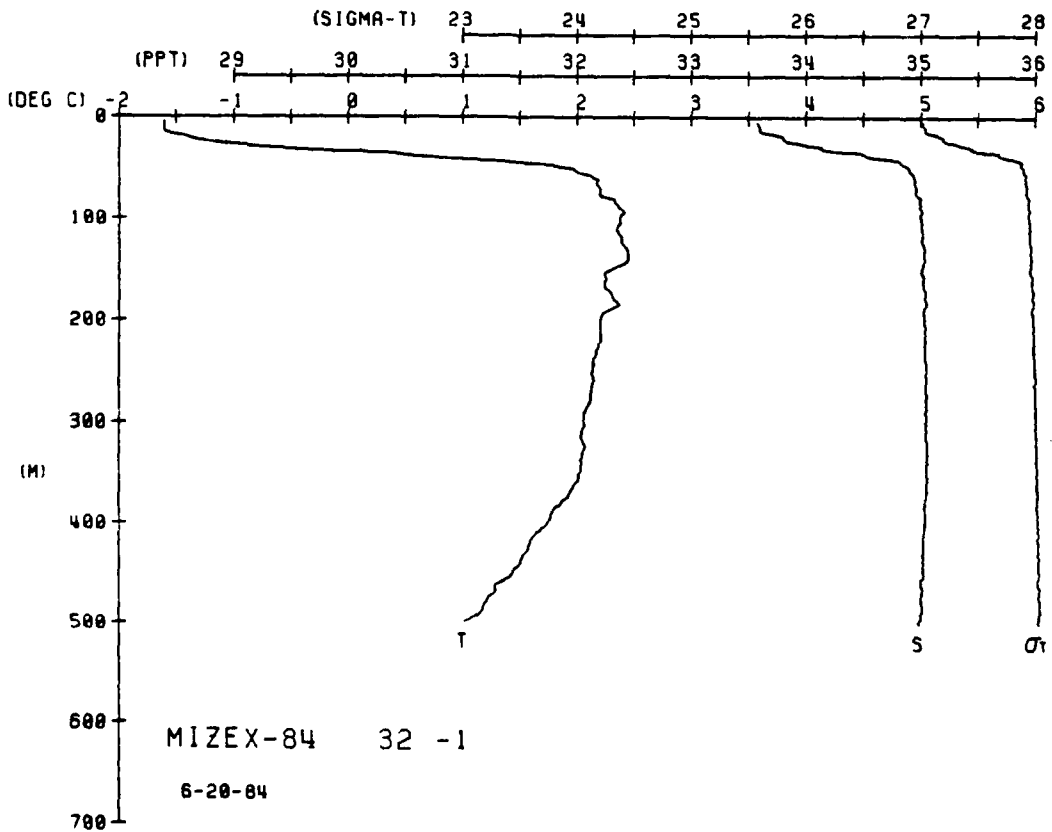
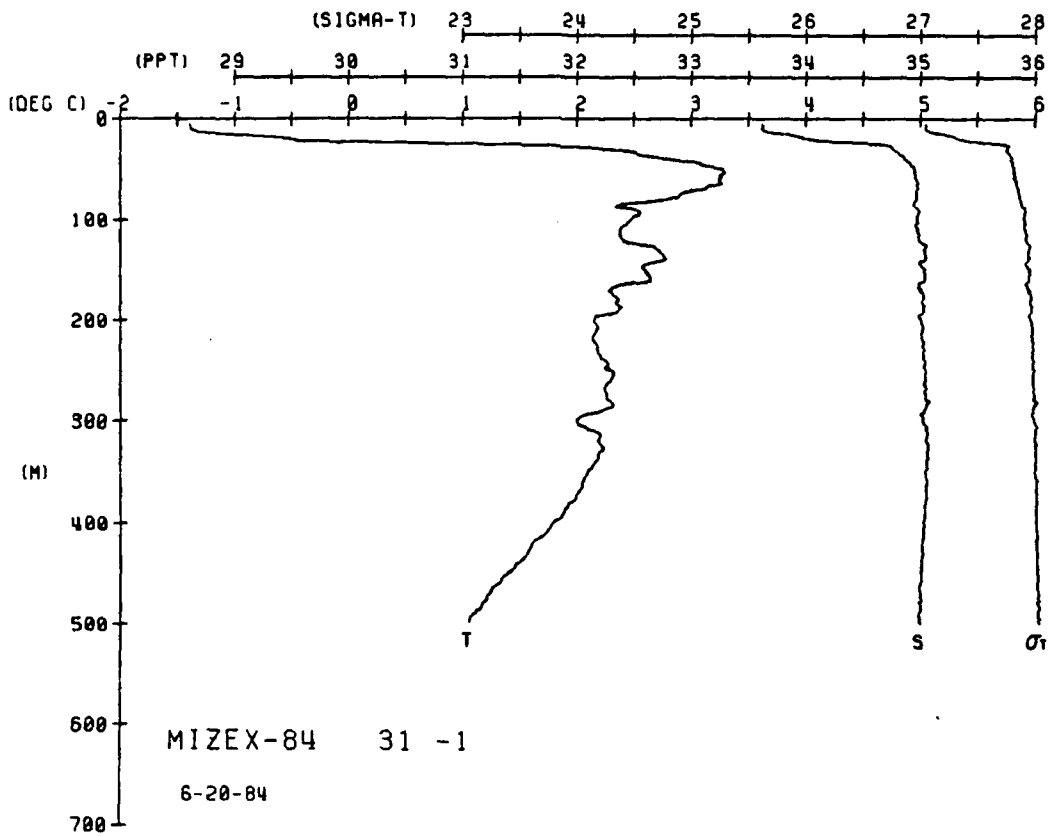
MIZEX-84 STATION 27(1) CTD 19/JUN/1984 1303 GMT CODE = 1
LAT = 89.2000N LNC = 7.666E LITER = 400. LGER = 400.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

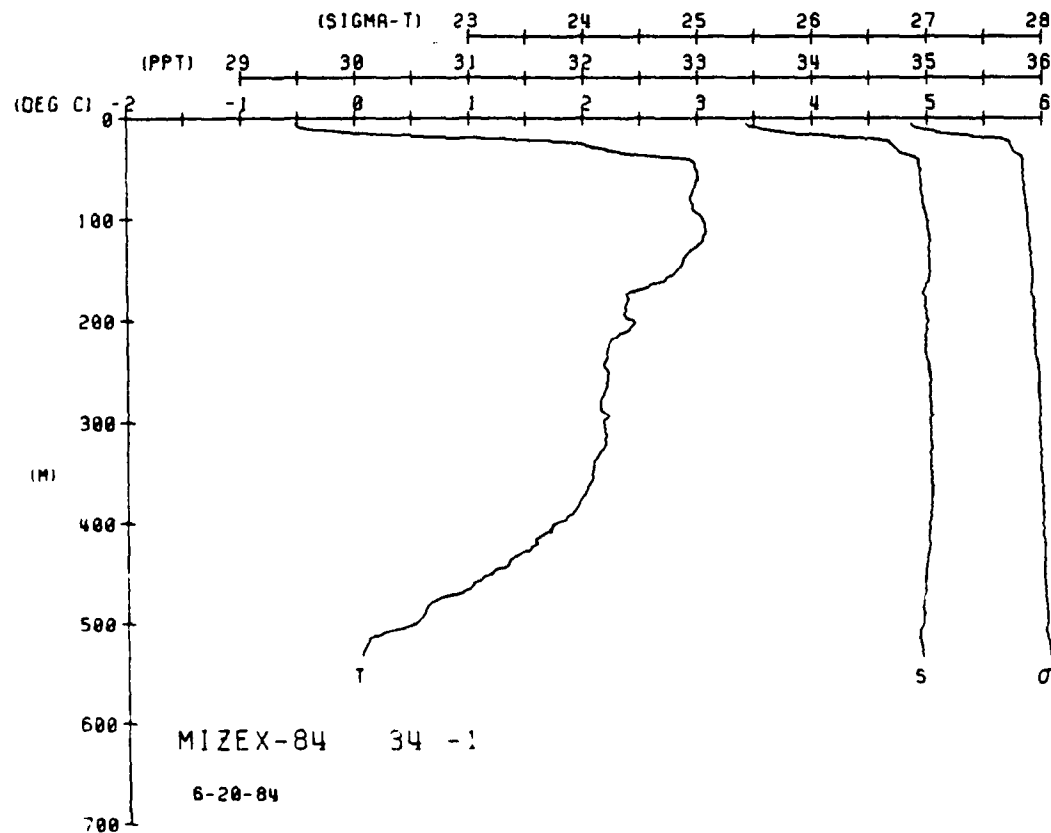
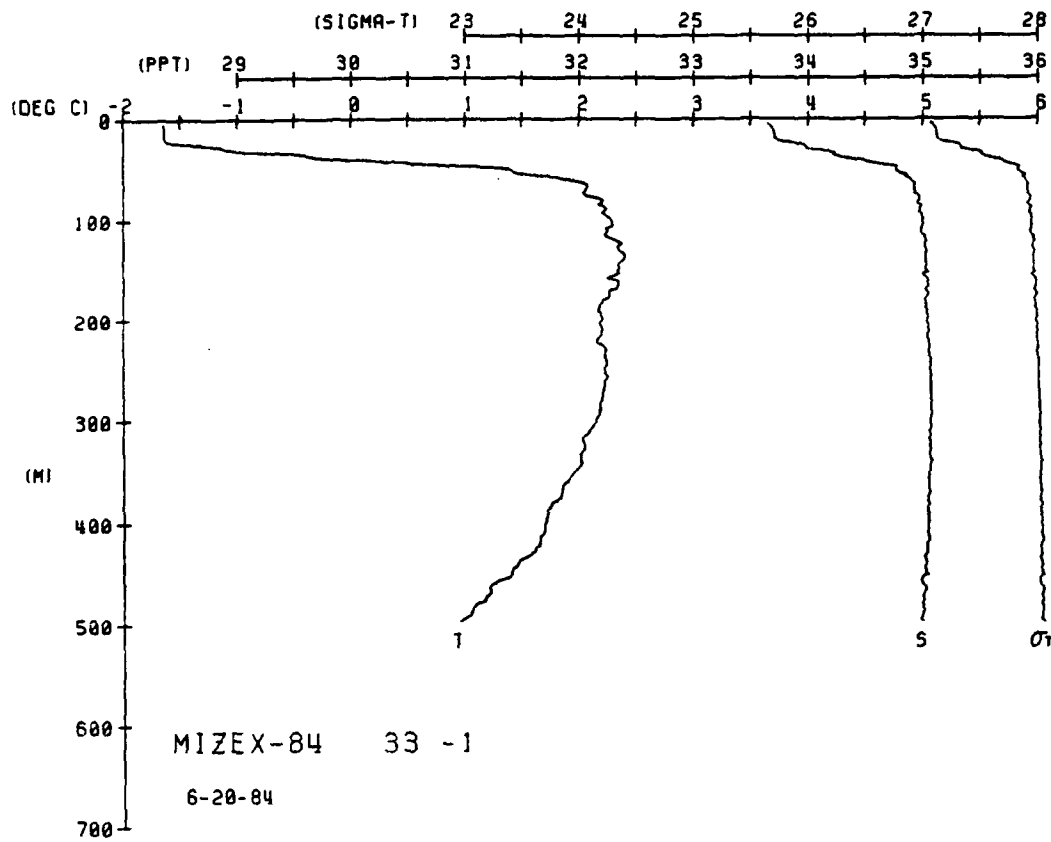
MIZEX-84 STATION 28(1) CTD 20/JUN/1984 0051 GMT CODE = 1
LAT = 89.2317N LNC = 6.1656E LITER = 300. LGER = 300.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

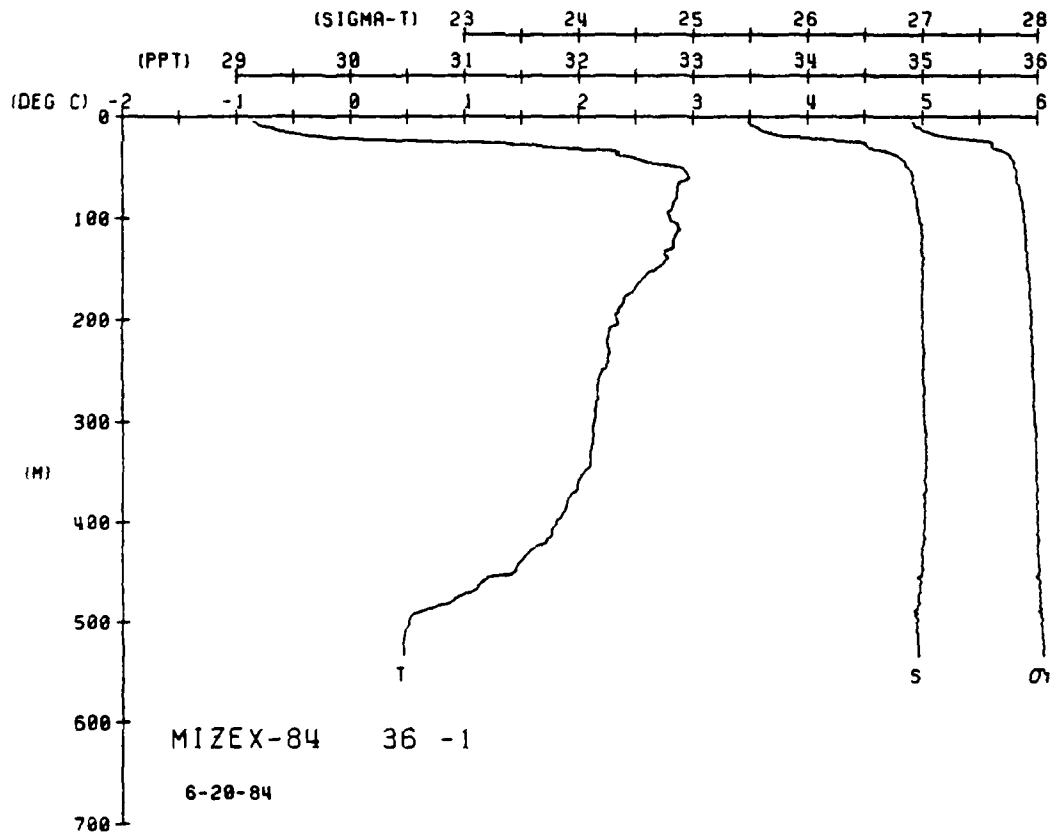
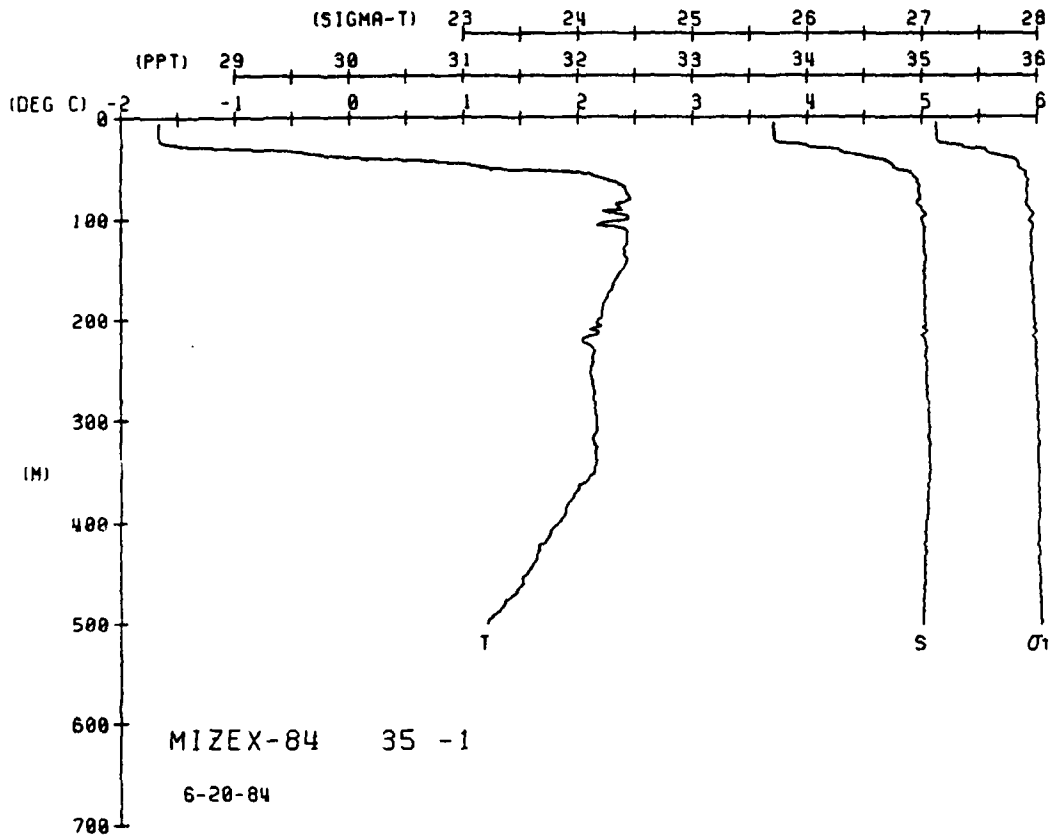
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DINH1	SOUND
0	0.000	0.000	33.333	16.000	9.000	000	0.000
5	0.000	0.000	33.333	16.000	9.000	000	0.000
10	0.000	0.000	33.333	16.000	9.000	000	0.000
15	0.000	0.000	33.333	16.000	9.000	000	0.000
20	0.000	0.000	33.333	16.000	9.000	000	0.000
25	0.000	0.000	33.333	16.000	9.000	000	0.000
30	0.000	0.000	33.333	16.000	9.000	000	0.000
35	0.000	0.000	33.333	16.000	9.000	000	0.000
40	0.000	0.000	33.333	16.000	9.000	000	0.000
45	0.000	0.000	33.333	16.000	9.000	000	0.000
50	0.000	0.000	33.333	16.000	9.000	000	0.000
55	0.000	0.000	33.333	16.000	9.000	000	0.000
60	0.000	0.000	33.333	16.000	9.000	000	0.000
65	0.000	0.000	33.333	16.000	9.000	000	0.000
70	0.000	0.000	33.333	16.000	9.000	000	0.000
75	0.000	0.000	33.333	16.000	9.000	000	0.000
80	0.000	0.000	33.333	16.000	9.000	000	0.000
85	0.000	0.000	33.333	16.000	9.000	000	0.000
90	0.000	0.000	33.333	16.000	9.000	000	0.000
95	0.000	0.000	33.333	16.000	9.000	000	0.000
100	0.000	0.000	33.333	16.000	9.000	000	0.000
105	0.000	0.000	33.333	16.000	9.000	000	0.000
110	0.000	0.000	33.333	16.000	9.000	000	0.000
115	0.000	0.000	33.333	16.000	9.000	000	0.000
120	0.000	0.000	33.333	16.000	9.000	000	0.000
125	0.000	0.000	33.333	16.000	9.000	000	0.000
130	0.000	0.000	33.333	16.000	9.000	000	0.000
135	0.000	0.000	33.333	16.000	9.000	000	0.000
140	0.000	0.000	33.333	16.000	9.000	000	0.000
145	0.000	0.000	33.333	16.000	9.000	000	0.000
150	0.000	0.000	33.333	16.000	9.000	000	0.000
155	0.000	0.000	33.333	16.000	9.000	000	0.000
160	0.000	0.000	33.333	16.000	9.000	000	0.000
165	0.000	0.000	33.333	16.000	9.000	000	0.000
170	0.000	0.000	33.333	16.000	9.000	000	0.000
175	0.000	0.000	33.333	16.000	9.000	000	0.000
180	0.000	0.000	33.333	16.000	9.000	000	0.000
185	0.000	0.000	33.333	16.000	9.000	000	0.000
190	0.000	0.000	33.333	16.000	9.000	000	0.000
195	0.000	0.000	33.333	16.000	9.000	000	0.000
200	0.000	0.000	33.333	16.000	9.000	000	0.000

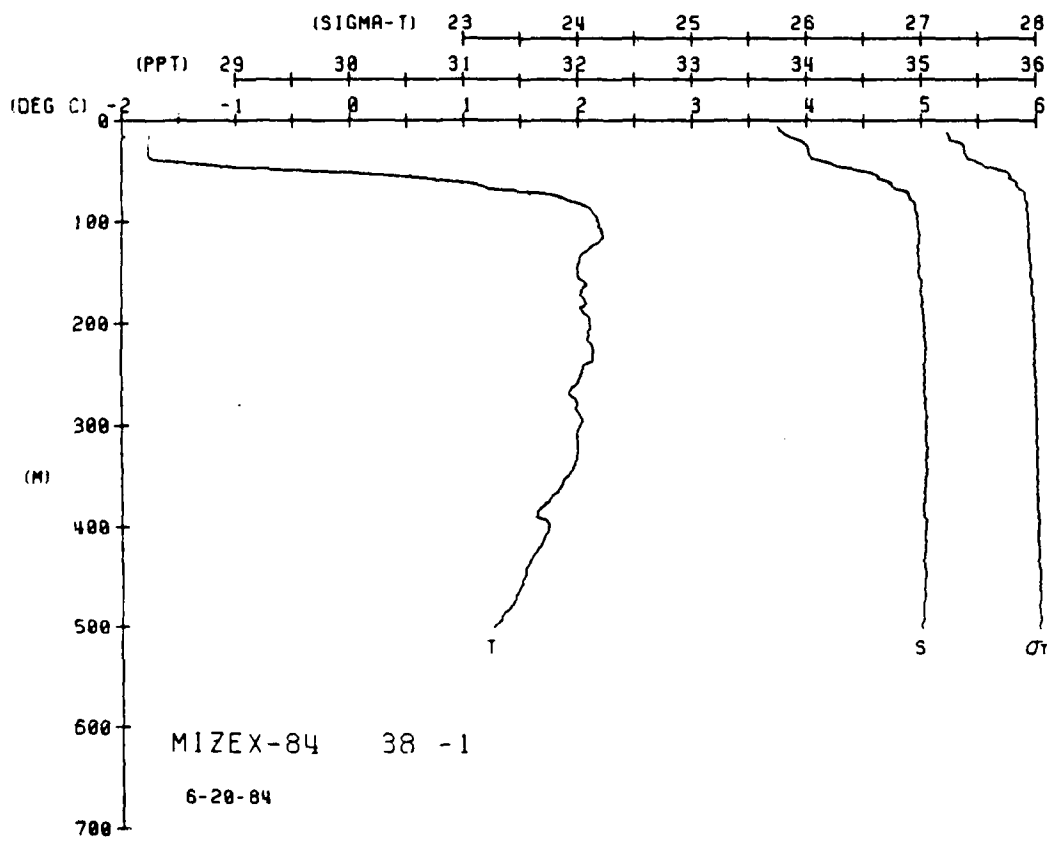
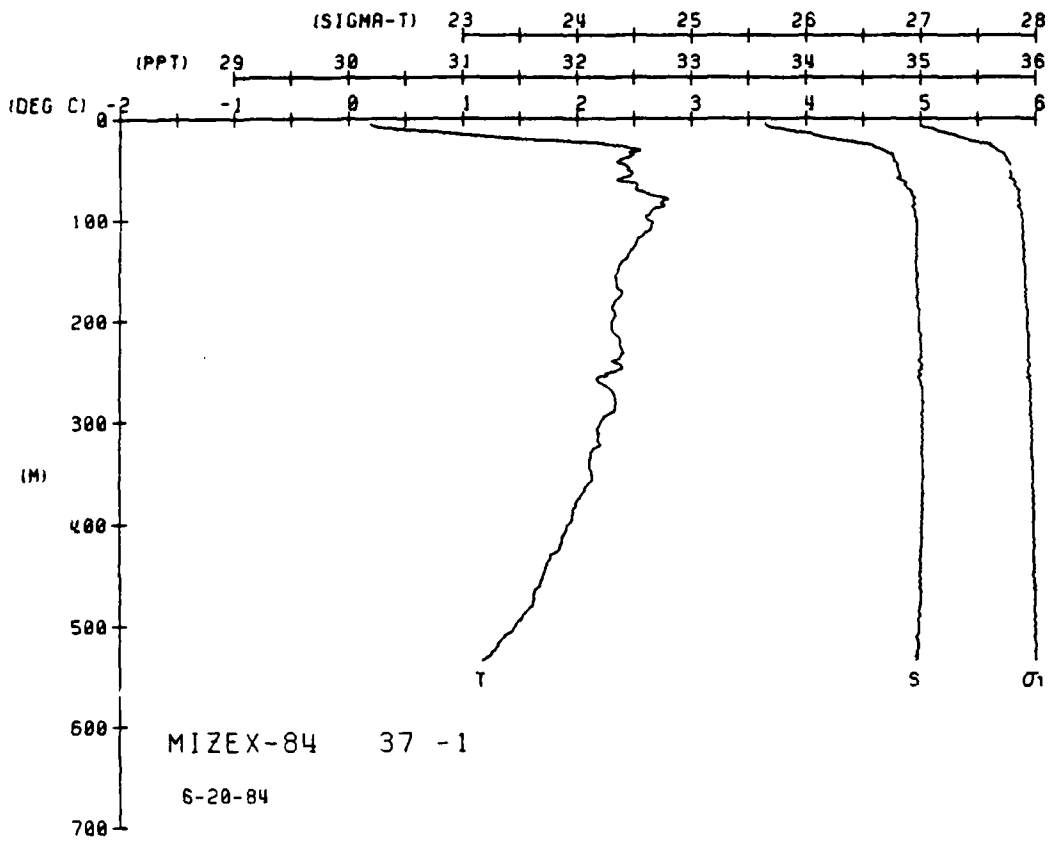


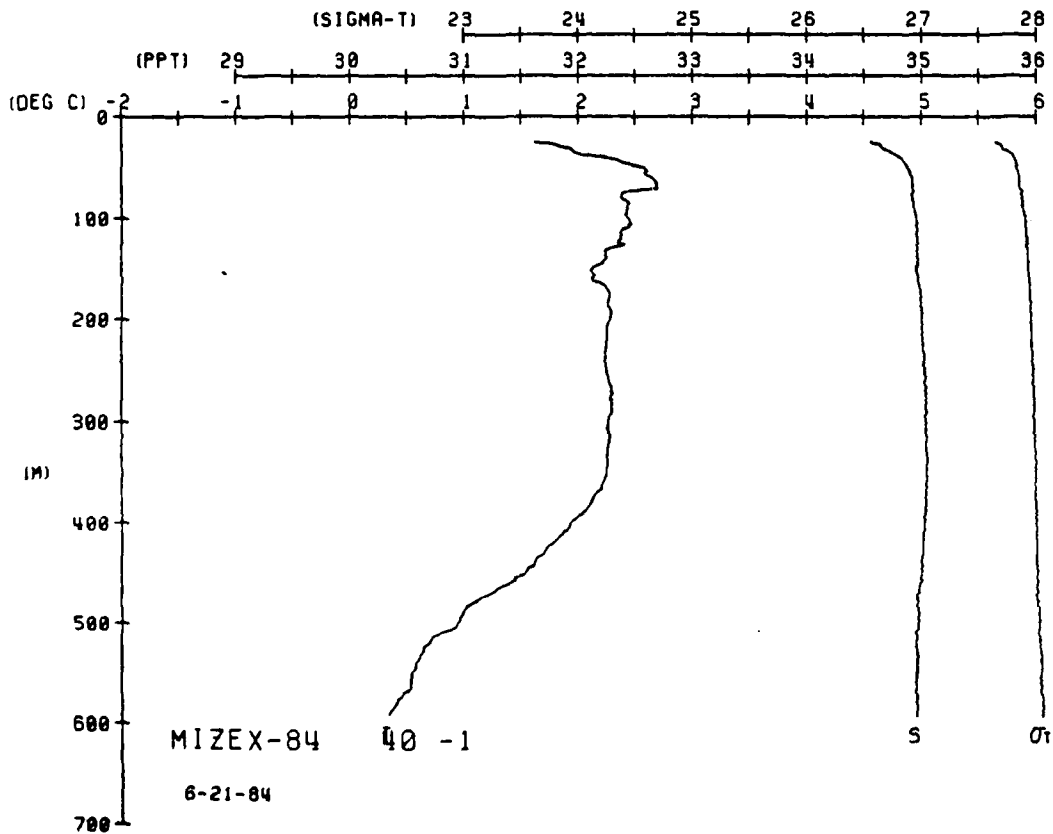
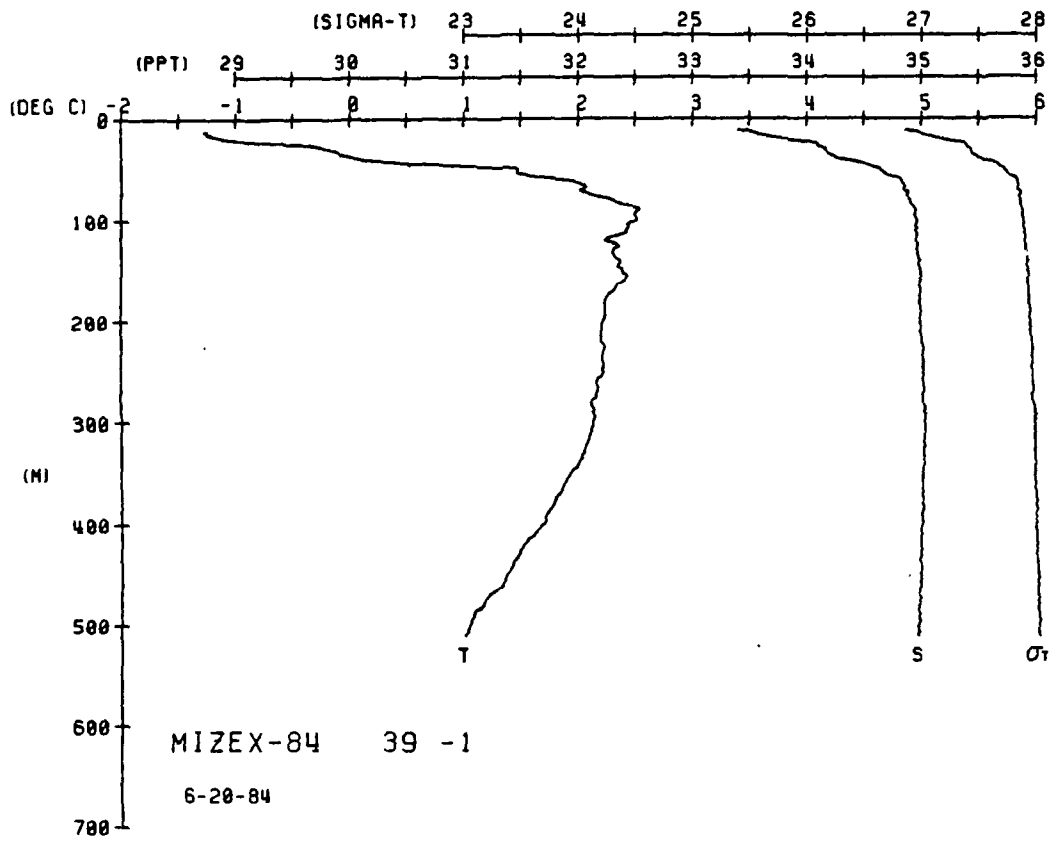










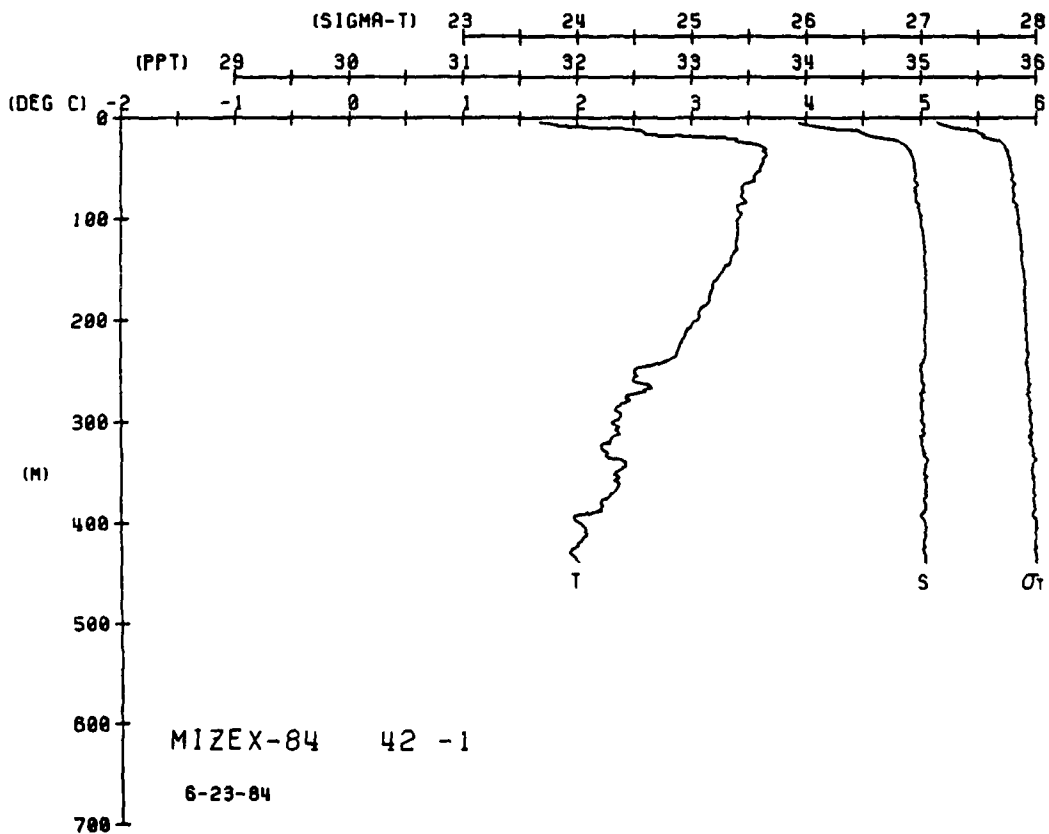
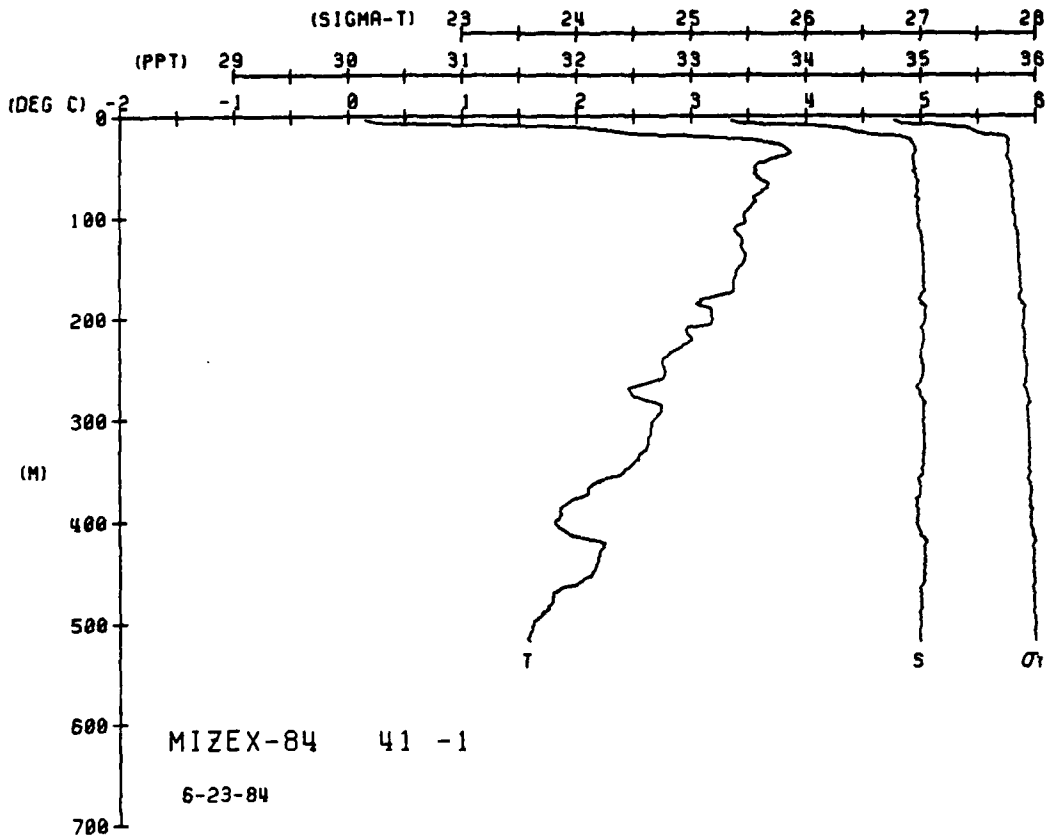


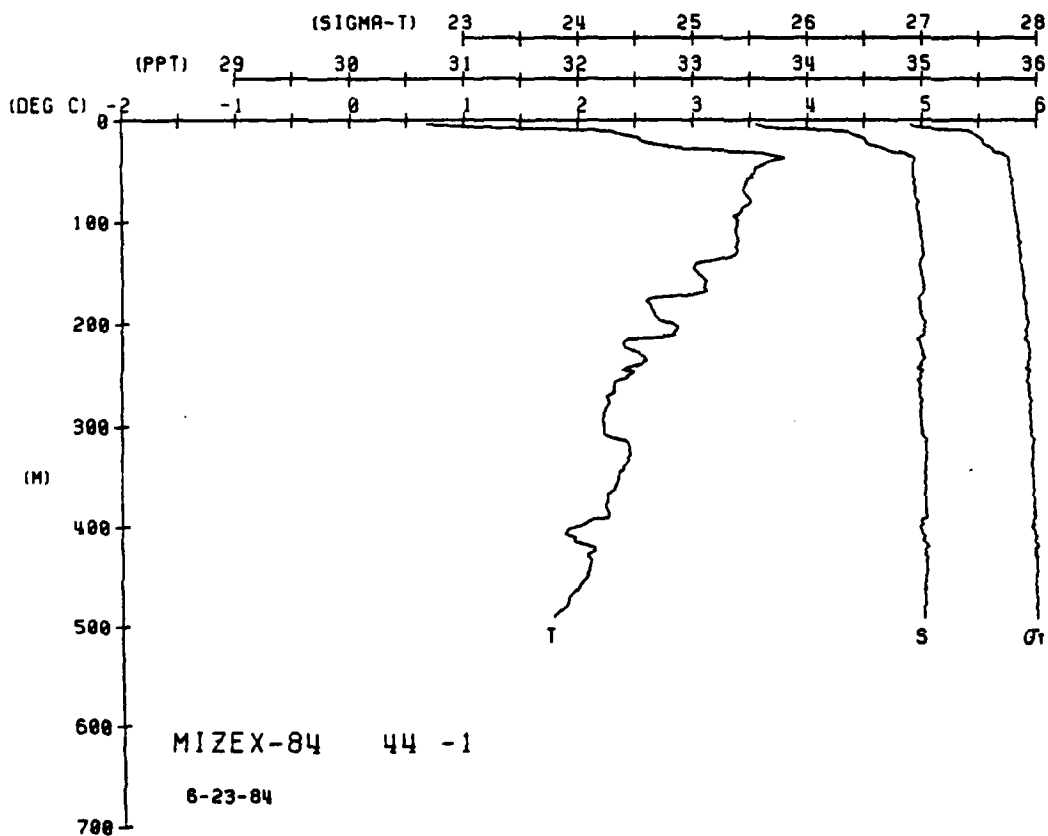
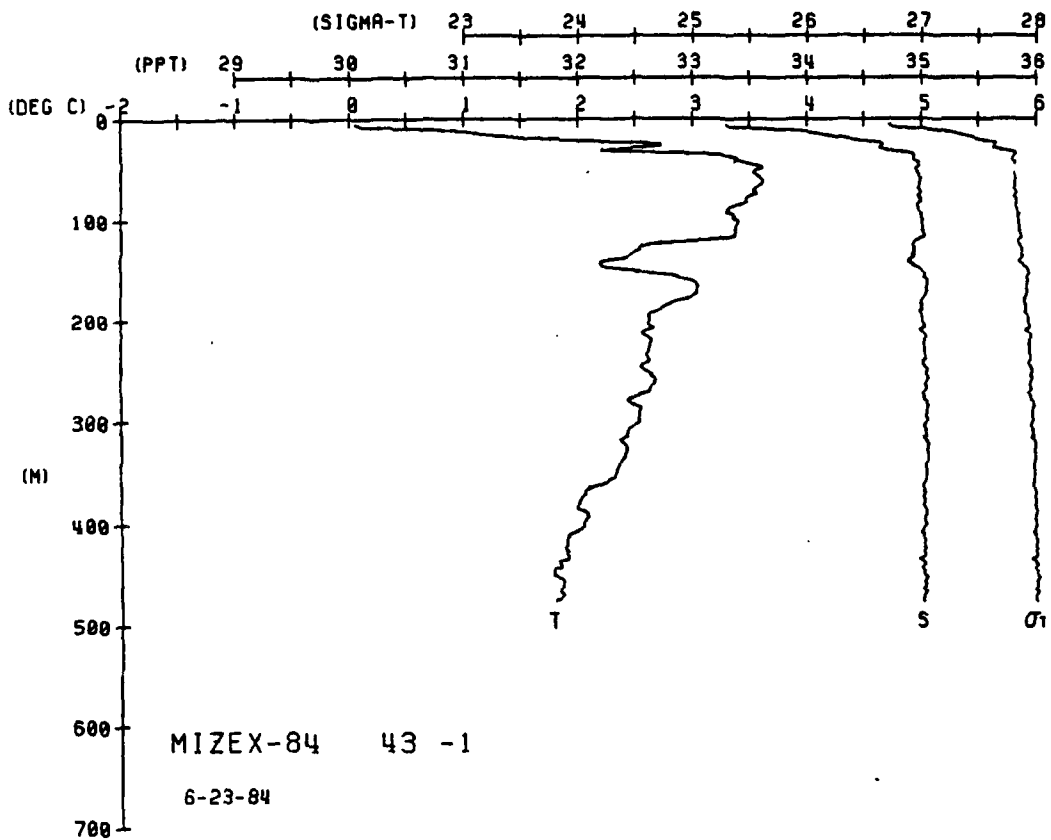
MIXE-84 STATION 41(1) CTD 23/JUN/1984 1333 GMT CODE = 1
LAT = 79.9517N LMG = 6.6017E LTKR = 150.0 UGR = 150.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 10.6

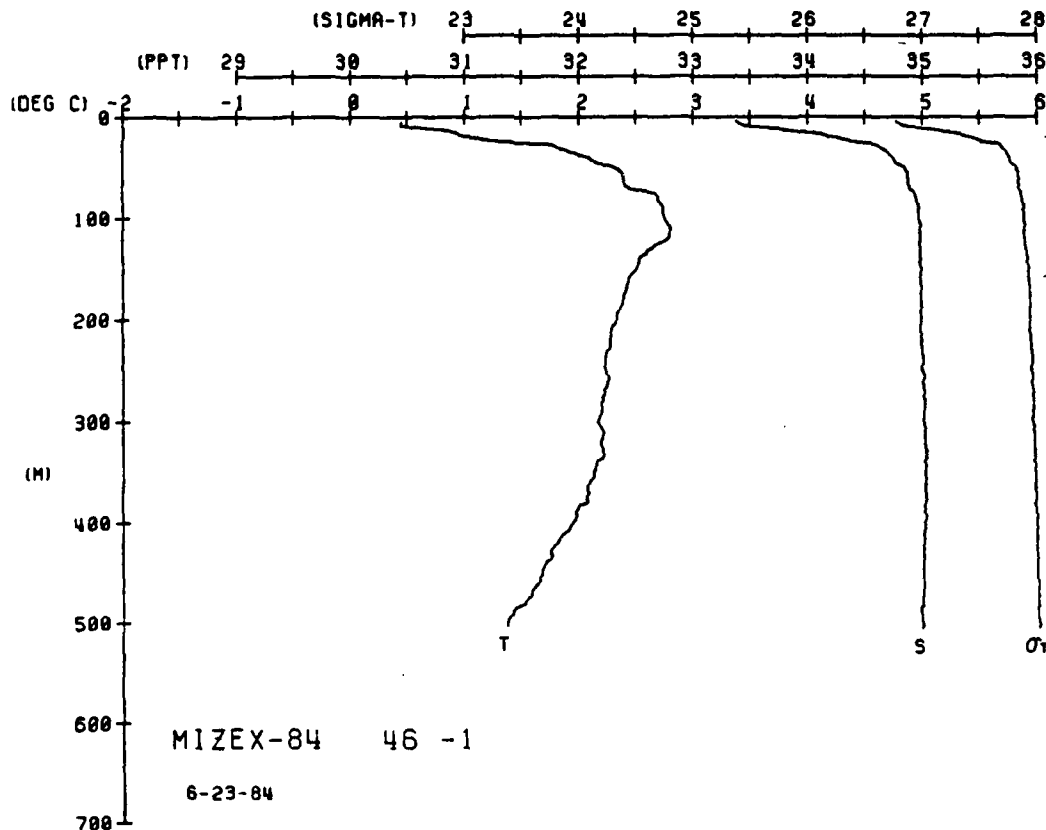
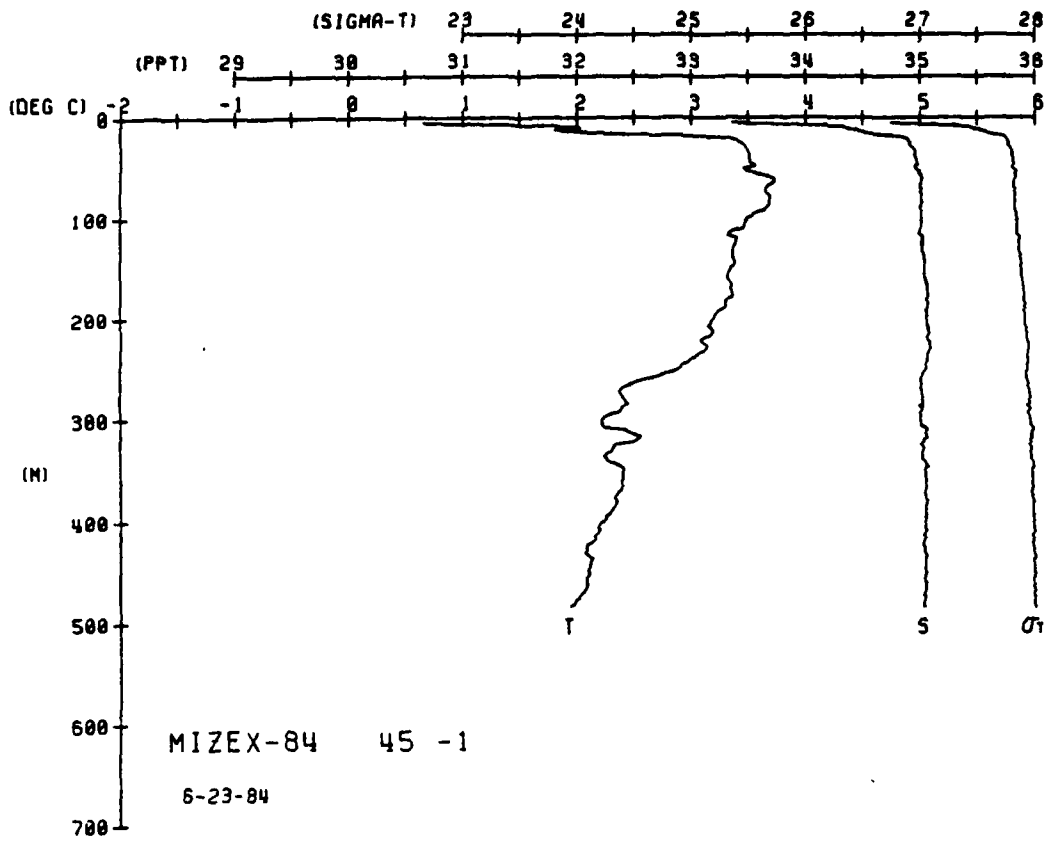
MIXE-84 STATION 42(1) CTD 23/JUN/1984 1443 GMT CODE = 1
LAT = 80.0433N LMG = 6.2850E LTKR = 150.0 UGR = 150.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 10.6

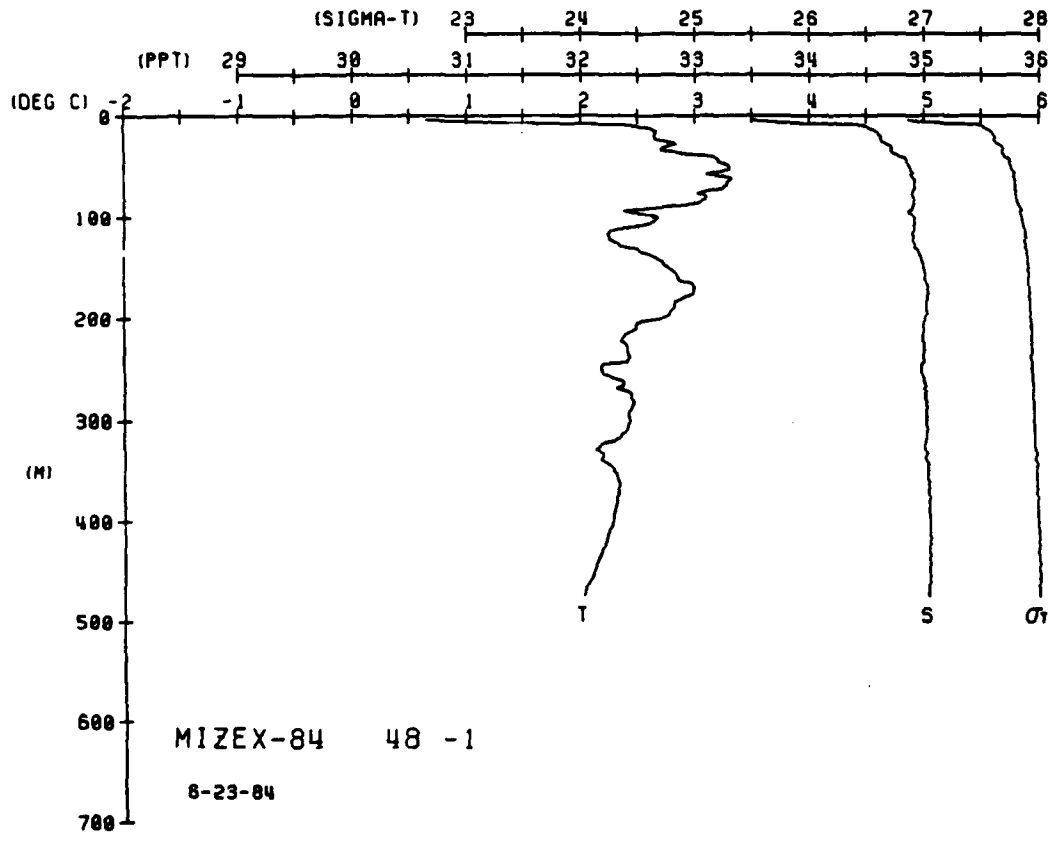
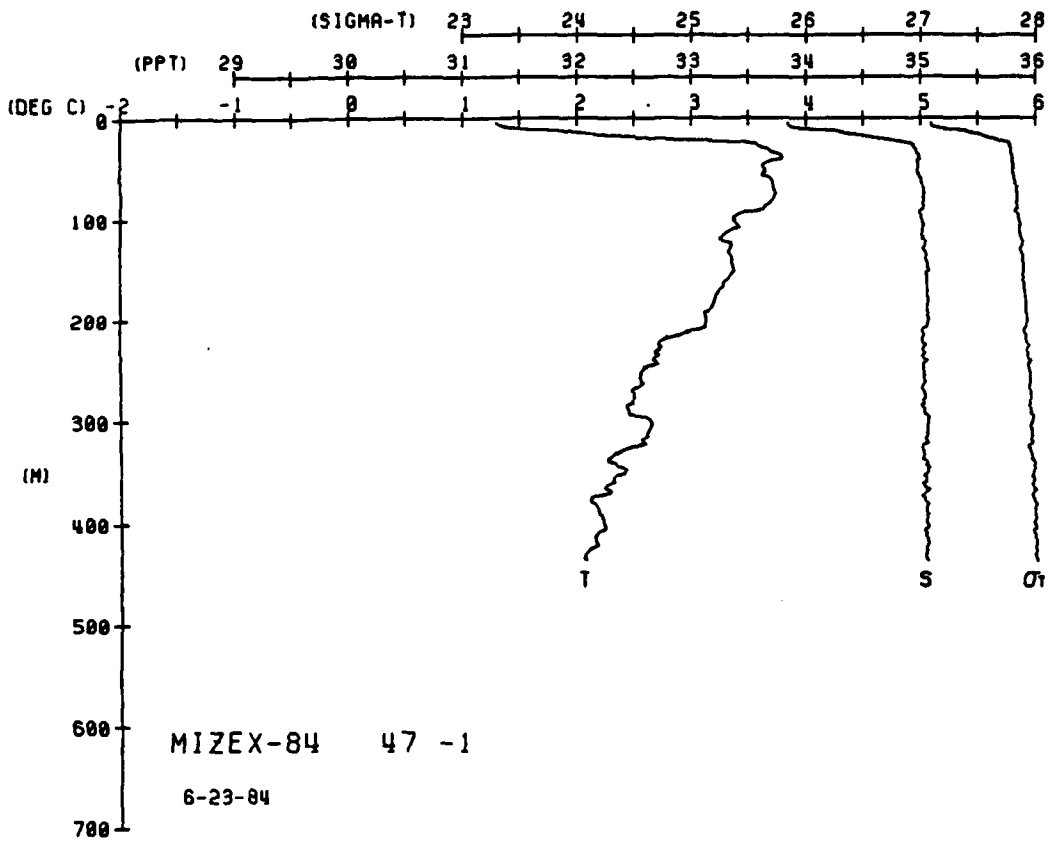
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
0	11.5	11.5	33.3	77.7	126.8	000	1447.8
5	11.5	11.5	33.3	77.7	126.8	000	1447.8
10	11.5	11.5	33.3	77.7	126.8	000	1447.8
15	11.5	11.5	33.3	77.7	126.8	000	1447.8
20	11.5	11.5	33.3	77.7	126.8	000	1447.8
25	11.5	11.5	33.3	77.7	126.8	000	1447.8
30	11.5	11.5	33.3	77.7	126.8	000	1447.8
35	11.5	11.5	33.3	77.7	126.8	000	1447.8
40	11.5	11.5	33.3	77.7	126.8	000	1447.8
45	11.5	11.5	33.3	77.7	126.8	000	1447.8
50	11.5	11.5	33.3	77.7	126.8	000	1447.8
55	11.5	11.5	33.3	77.7	126.8	000	1447.8
60	11.5	11.5	33.3	77.7	126.8	000	1447.8
65	11.5	11.5	33.3	77.7	126.8	000	1447.8
70	11.5	11.5	33.3	77.7	126.8	000	1447.8
75	11.5	11.5	33.3	77.7	126.8	000	1447.8
80	11.5	11.5	33.3	77.7	126.8	000	1447.8
85	11.5	11.5	33.3	77.7	126.8	000	1447.8
90	11.5	11.5	33.3	77.7	126.8	000	1447.8
95	11.5	11.5	33.3	77.7	126.8	000	1447.8
100	11.5	11.5	33.3	77.7	126.8	000	1447.8
105	11.5	11.5	33.3	77.7	126.8	000	1447.8
110	11.5	11.5	33.3	77.7	126.8	000	1447.8
115	11.5	11.5	33.3	77.7	126.8	000	1447.8
120	11.5	11.5	33.3	77.7	126.8	000	1447.8
125	11.5	11.5	33.3	77.7	126.8	000	1447.8
130	11.5	11.5	33.3	77.7	126.8	000	1447.8
135	11.5	11.5	33.3	77.7	126.8	000	1447.8
140	11.5	11.5	33.3	77.7	126.8	000	1447.8
145	11.5	11.5	33.3	77.7	126.8	000	1447.8
150	11.5	11.5	33.3	77.7	126.8	000	1447.8

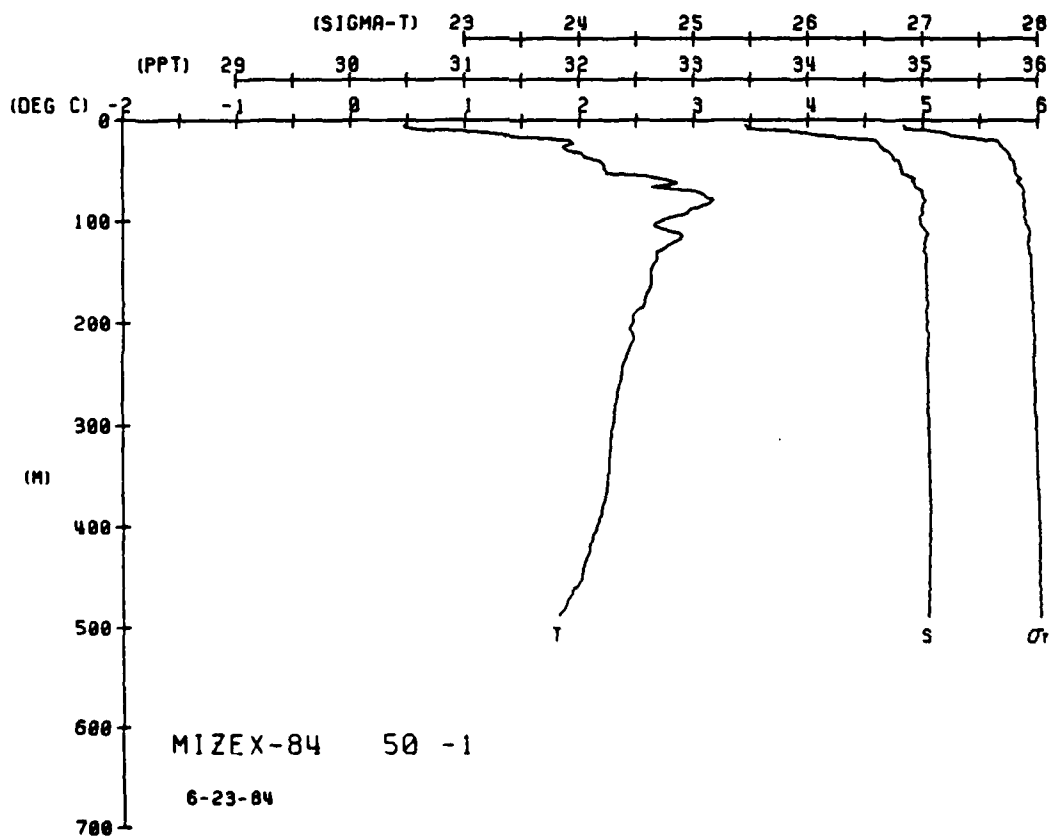
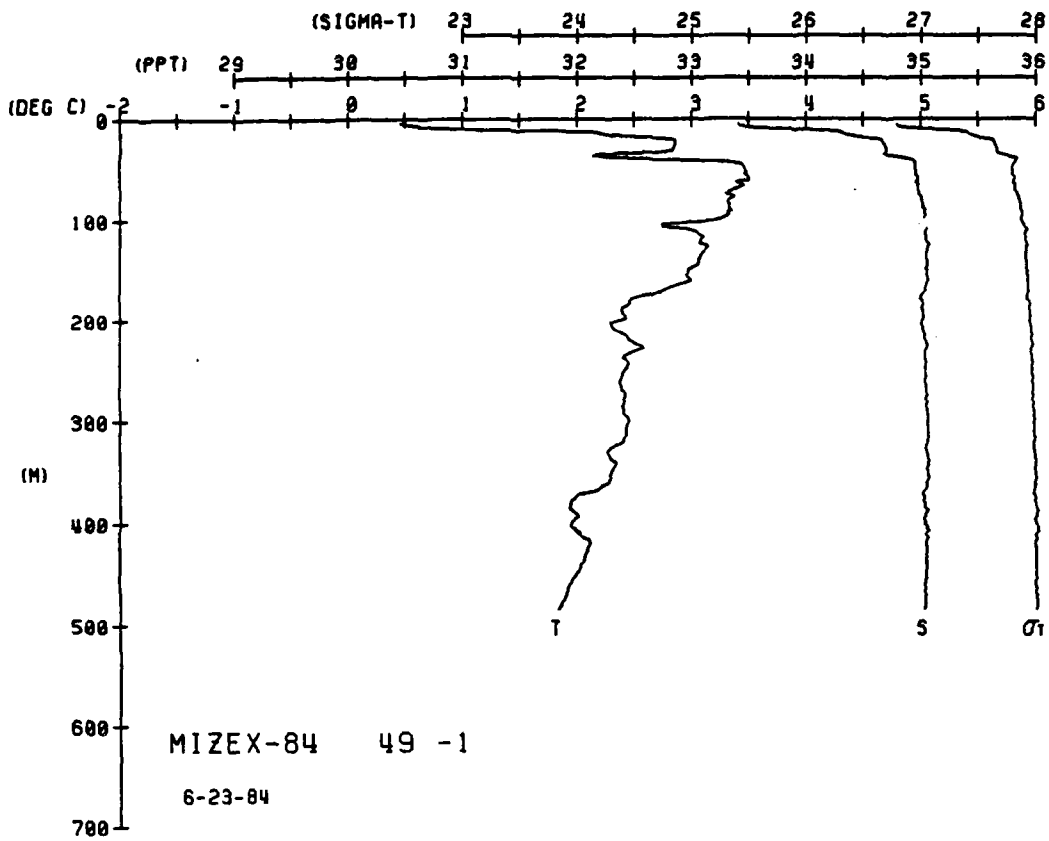
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
0	11.5	11.5	33.3	77.7	126.8	000	1447.8
5	11.5	11.5	33.3	77.7	126.8	000	1447.8
10	11.5	11.5	33.3	77.7	126.8	000	1447.8
15	11.5	11.5	33.3	77.7	126.8	000	1447.8
20	11.5	11.5	33.3	77.7	126.8	000	1447.8
25	11.5	11.5	33.3	77.7	126.8	000	1447.8
30	11.5	11.5	33.3	77.7	126.8	000	1447.8
35	11.5	11.5	33.3	77.7	126.8	000	1447.8
40	11.5	11.5	33.3	77.7	126.8	000	1447.8
45	11.5	11.5	33.3	77.7	126.8	000	1447.8
50	11.5	11.5	33.3	77.7	126.8	000	1447.8
55	11.5	11.5	33.3	77.7	126.8	000	1447.8
60	11.5	11.5	33.3	77.7	126.8	000	1447.8
65	11.5	11.5	33.3	77.7	126.8	000	1447.8
70	11.5	11.5	33.3	77.7	126.8	000	1447.8
75	11.5	11.5	33.3	77.7	126.8	000	1447.8
80	11.5	11.5	33.3	77.7	126.8	000	1447.8
85	11.5	11.5	33.3	77.7	126.8	000	1447.8
90	11.5	11.5	33.3	77.7	126.8	000	1447.8
95	11.5	11.5	33.3	77.7	126.8	000	1447.8
100	11.5	11.5	33.3	77.7	126.8	000	1447.8
105	11.5	11.5	33.3	77.7	126.8	000	1447.8
110	11.5	11.5	33.3	77.7	126.8	000	1447.8
115	11.5	11.5	33.3	77.7	126.8	000	1447.8
120	11.5	11.5	33.3	77.7	126.8	000	1447.8
125	11.5	11.5	33.3	77.7	126.8	000	1447.8
130	11.5	11.5	33.3	77.7	126.8	000	1447.8
135	11.5	11.5	33.3	77.7	126.8	000	1447.8
140	11.5	11.5	33.3	77.7	126.8	000	1447.8
145	11.5	11.5	33.3	77.7	126.8	000	1447.8
150	11.5	11.5	33.3	77.7	126.8	000	1447.8









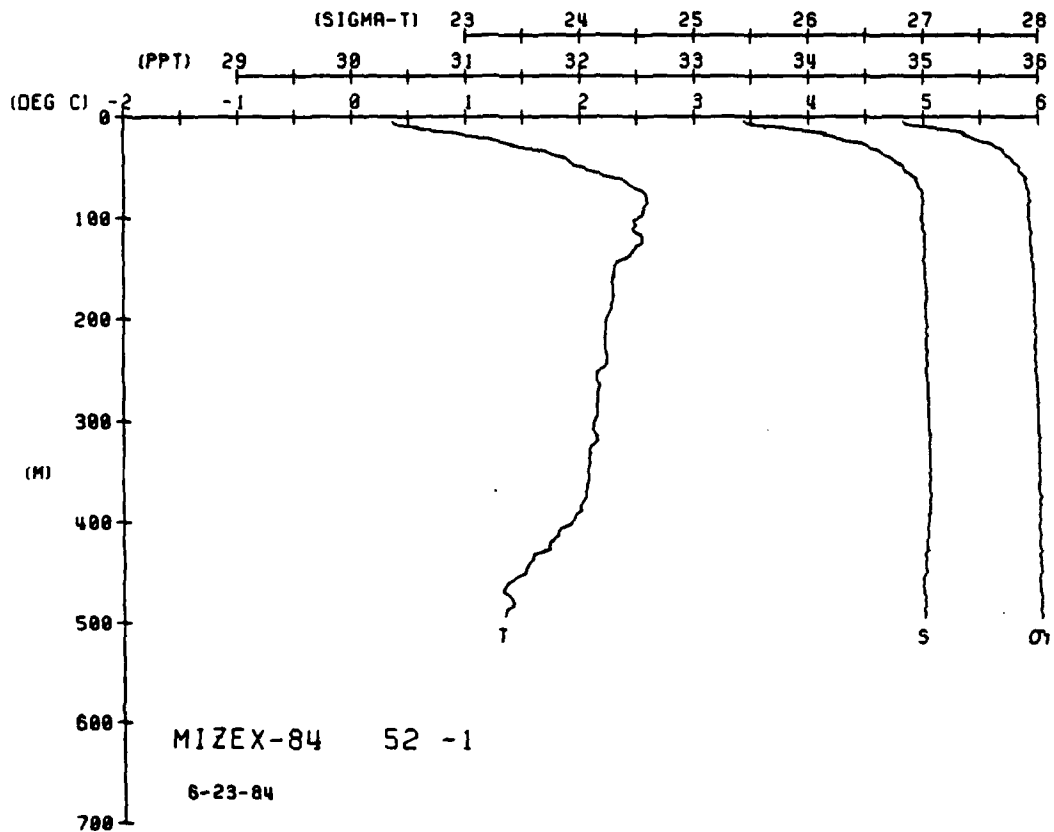
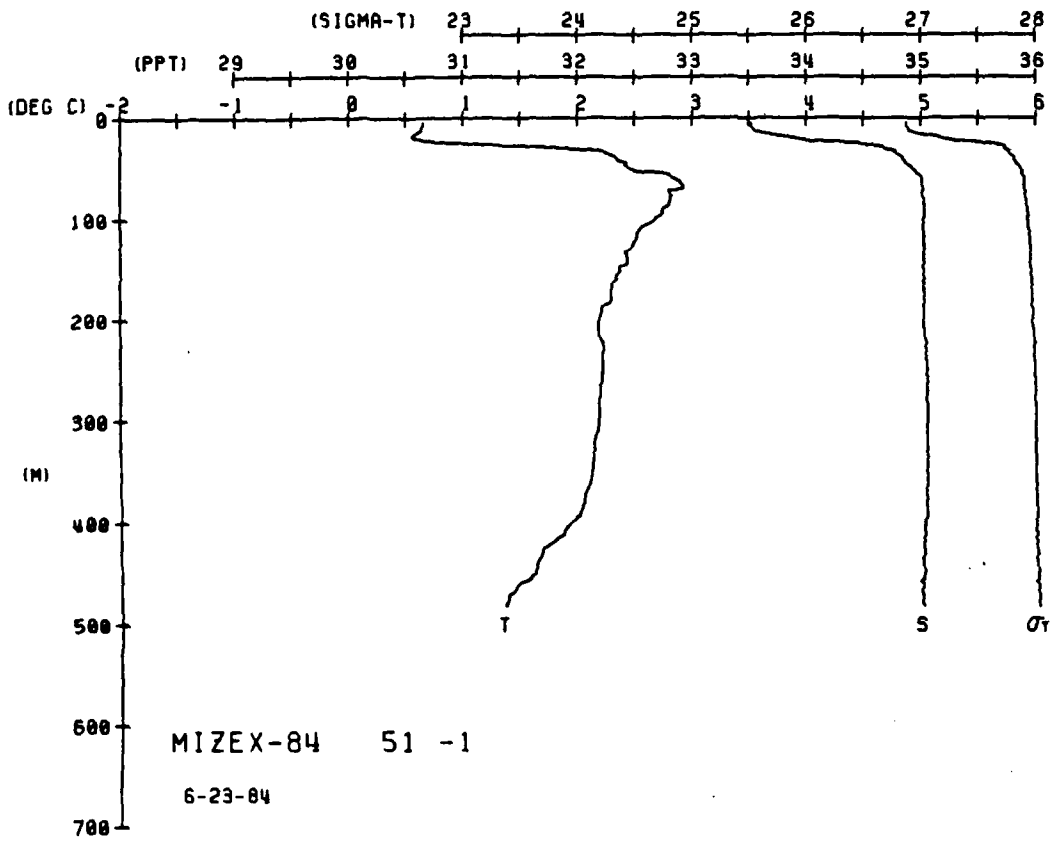


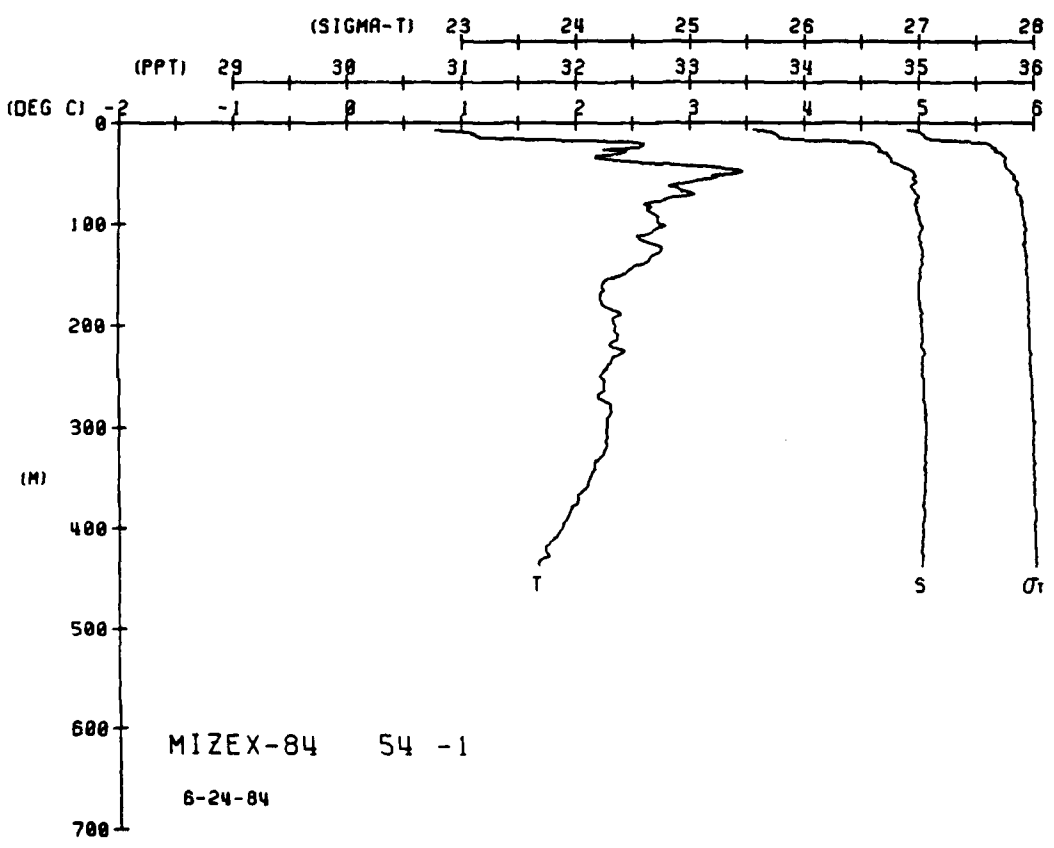
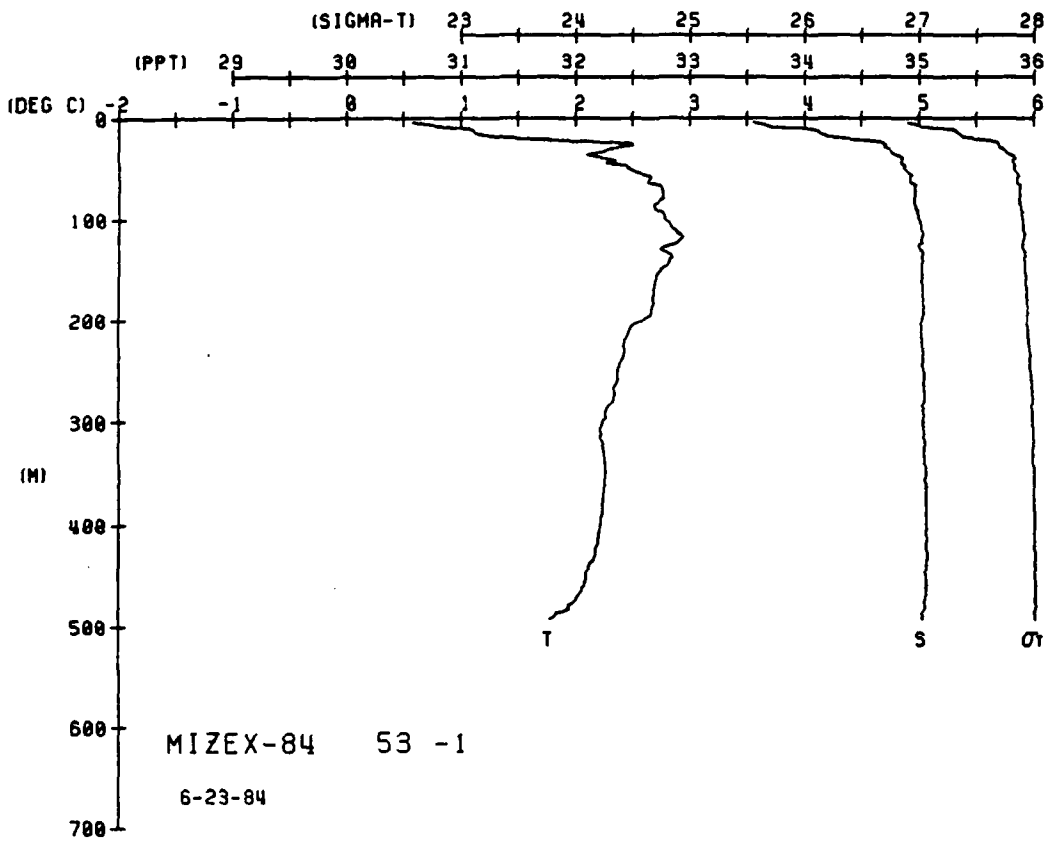
RIZEX-84 STATION 52(1) CTU 23 JUN/1984 2024 GMT CODE = 1
LAT = 80.1167N LNC = 6.8333E UZER = 300. UGER = 300.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

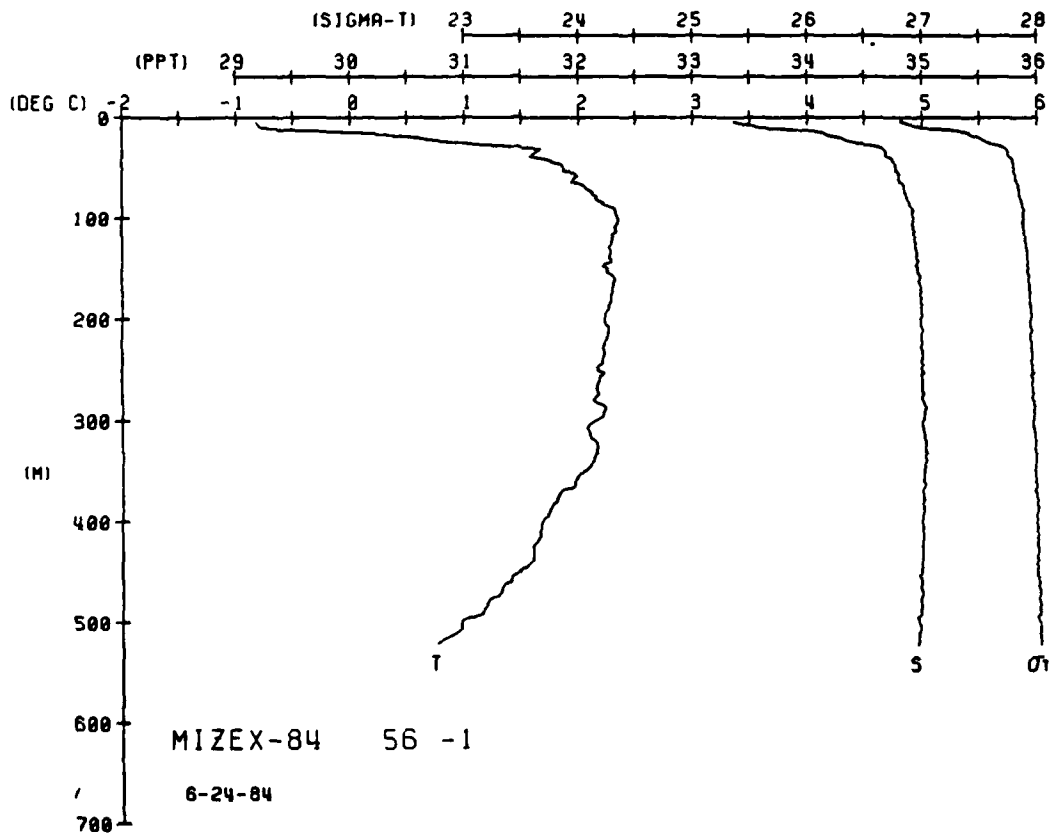
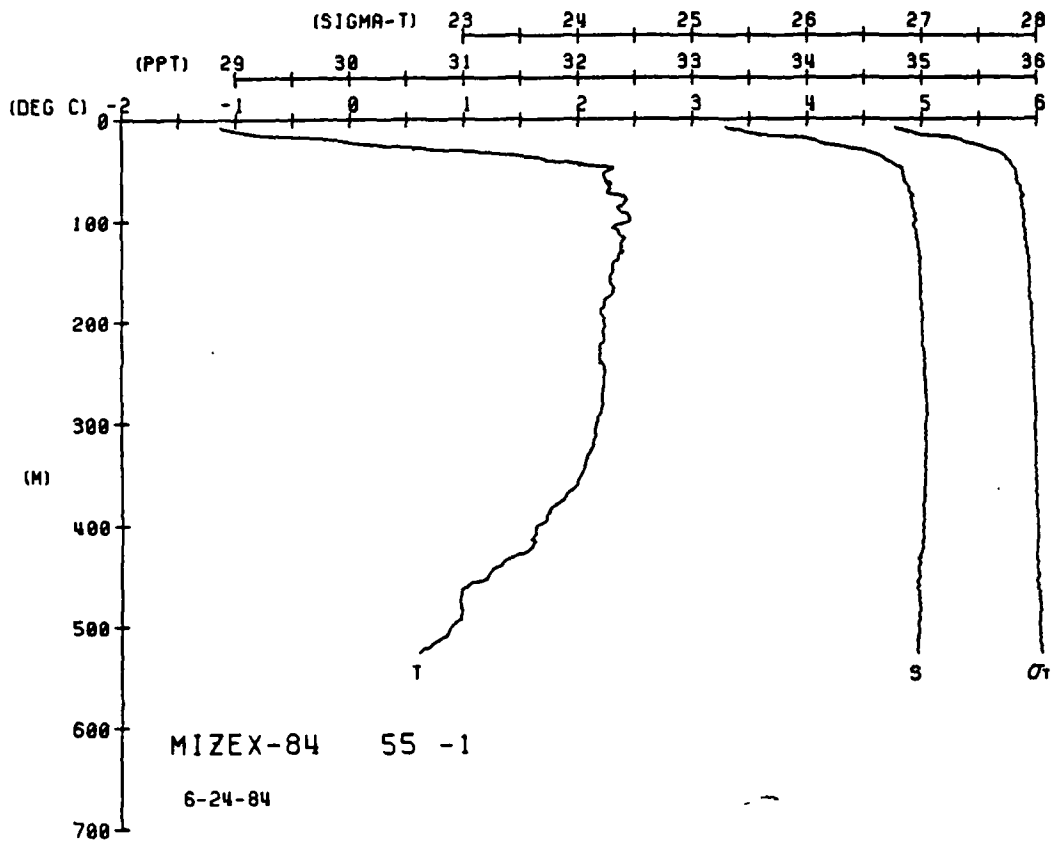
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DIMHT	SOUND
00	00	00	00	00	00	00	00
05	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00
35	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00
45	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00
55	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00
65	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00
75	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00
85	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00
95	00	00	00	00	00	00	00
100	00	00	00	00	00	00	00

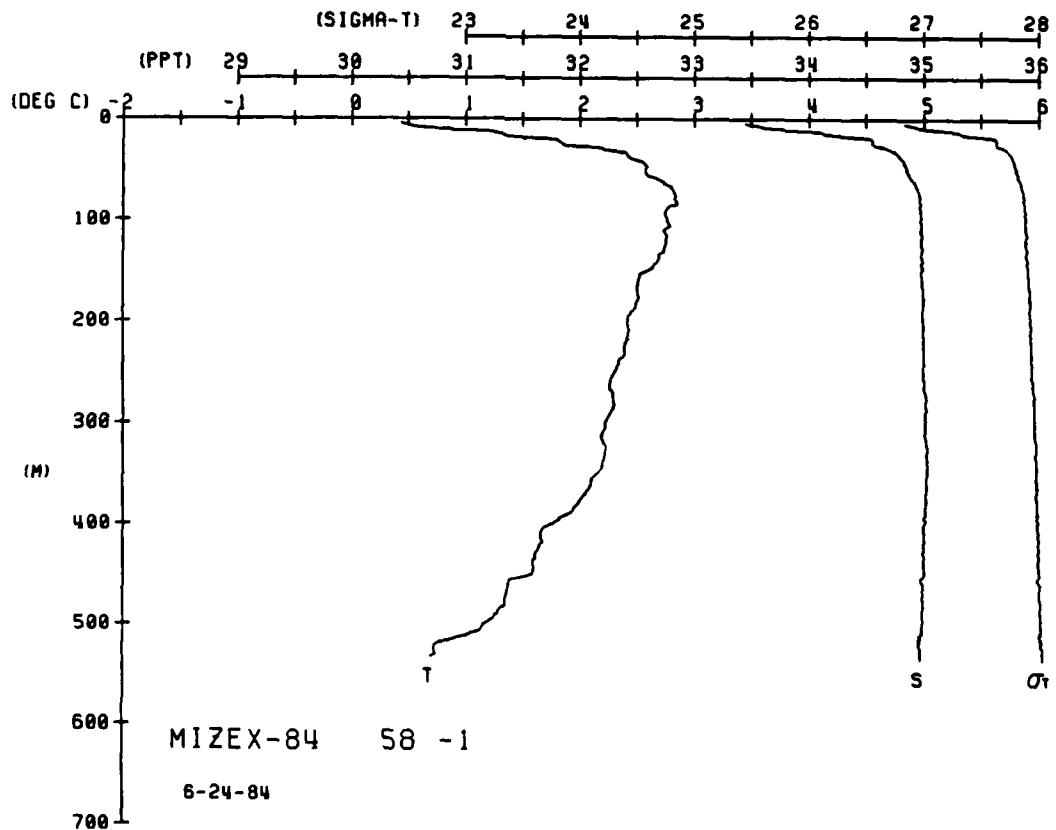
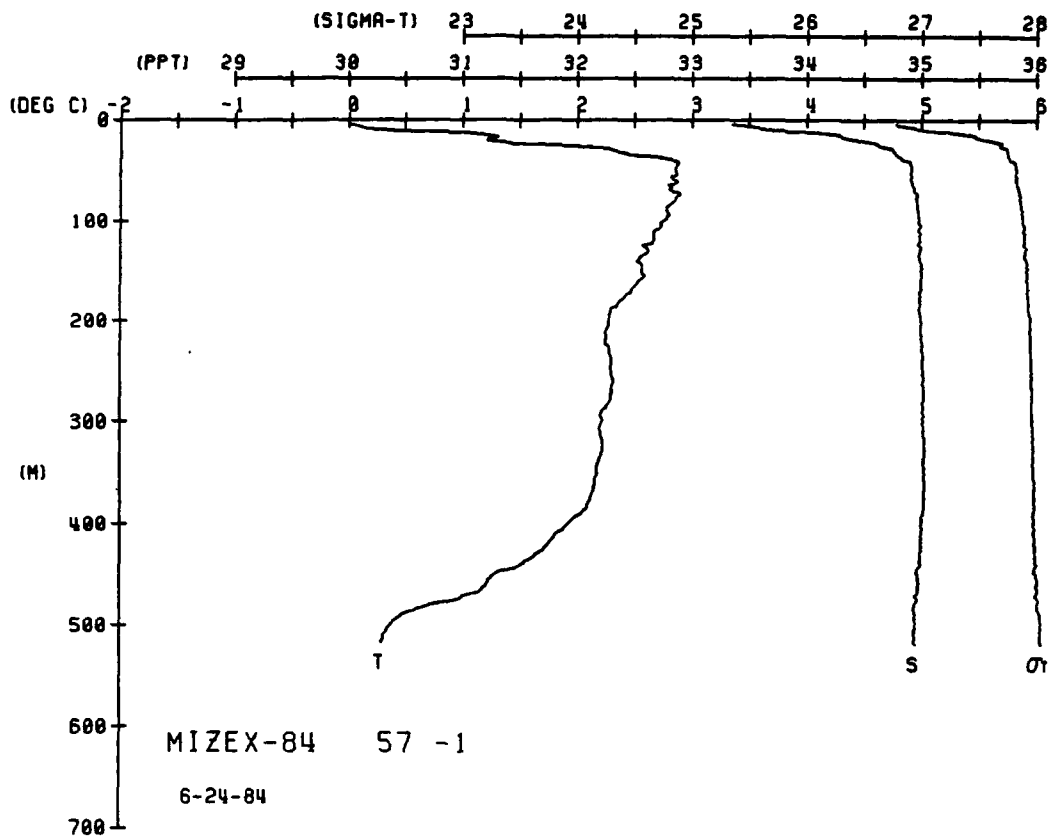
RIZEX-84 STATION 51(1) CTU 23 JUN/1984 1940 GMT CODE = 1
LAT = 80.1033N LNC = 6.4667E UZER = 150. UGER = 150.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

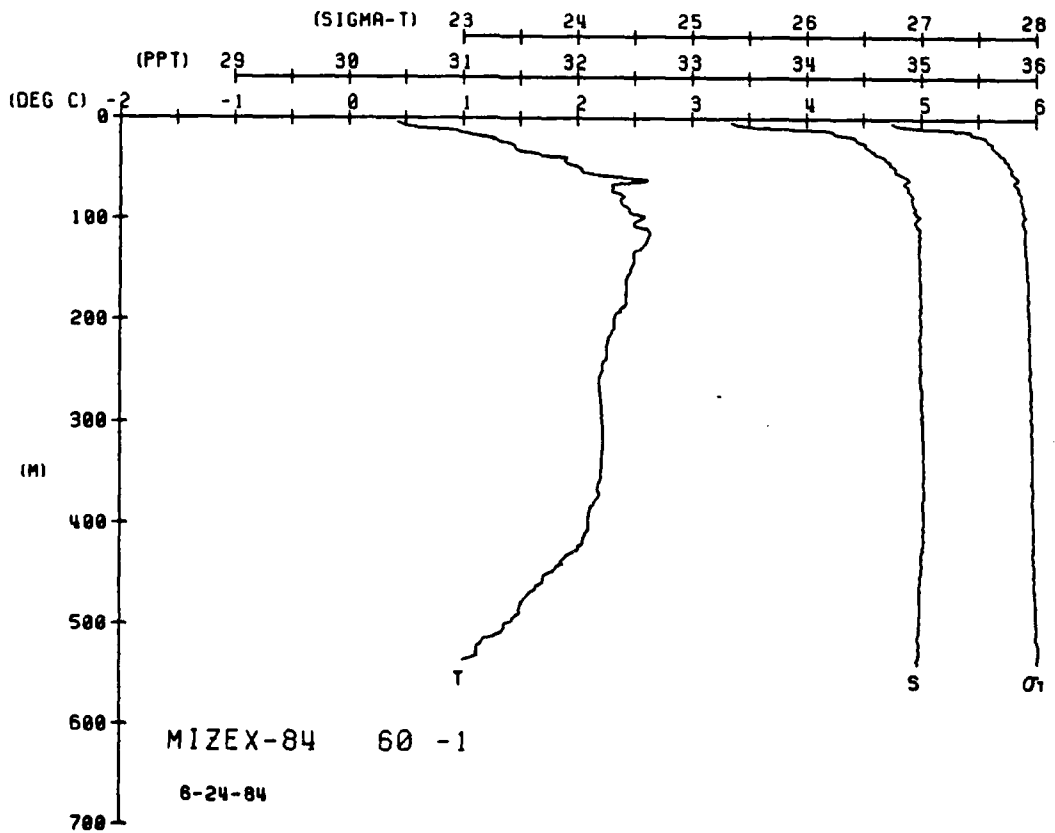
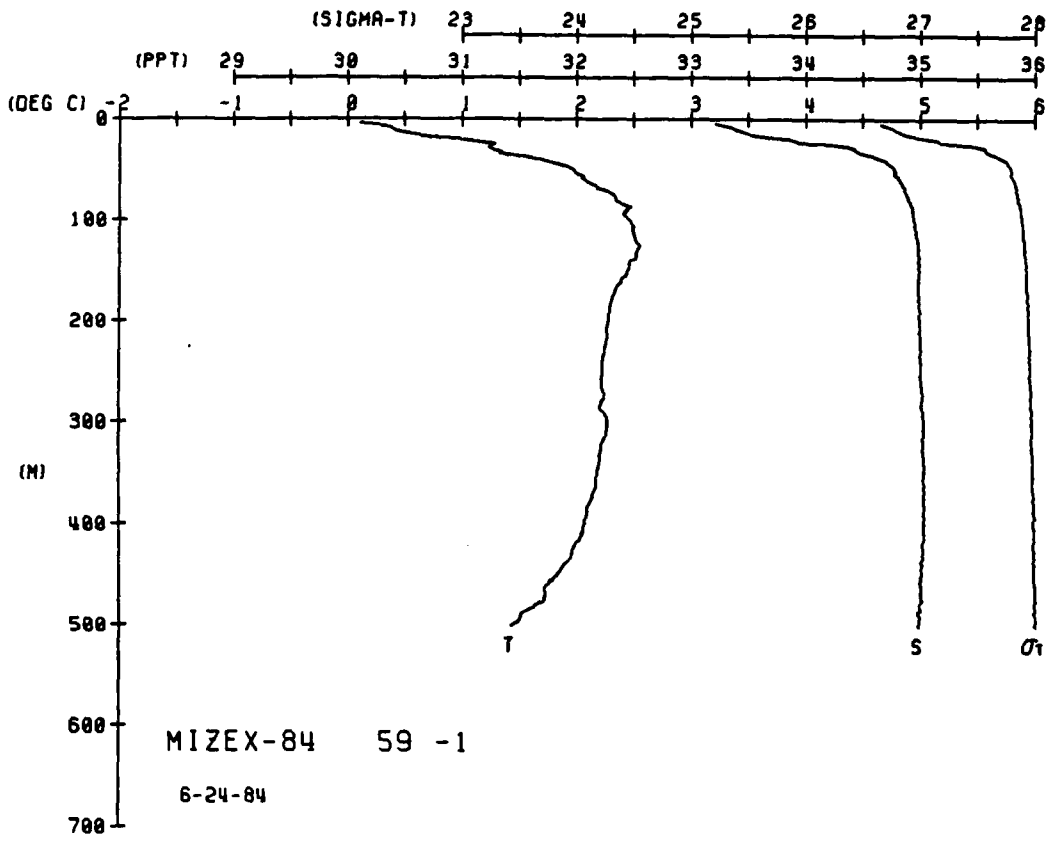
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DIMHT	SOUND
00	00	00	00	00	00	00	00
05	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00
35	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00
45	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00
55	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00
65	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00
75	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00
85	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00
95	00	00	00	00	00	00	00
100	00	00	00	00	00	00	00

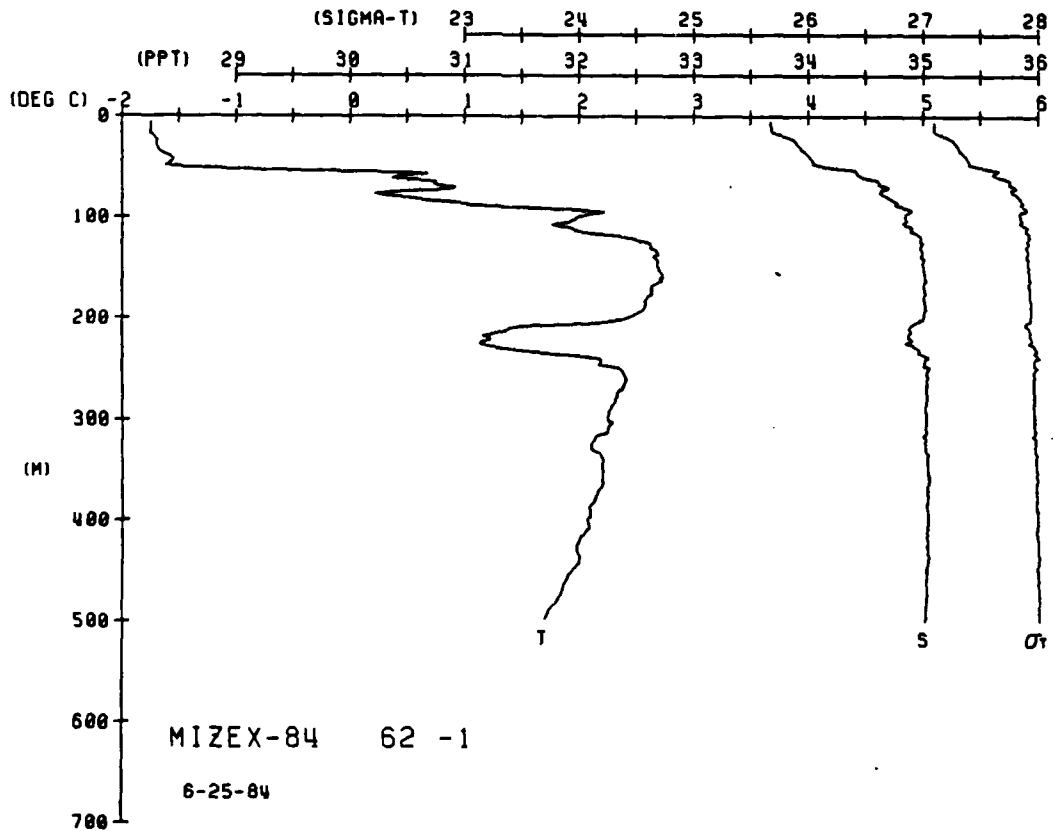
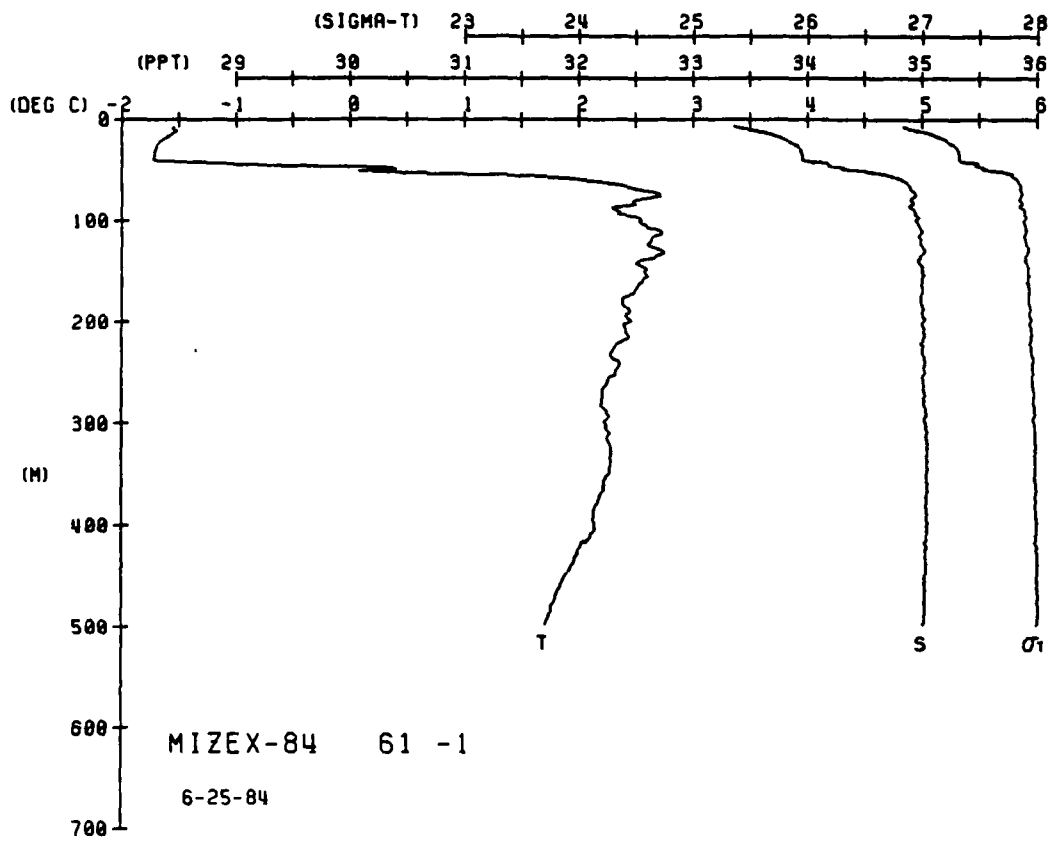










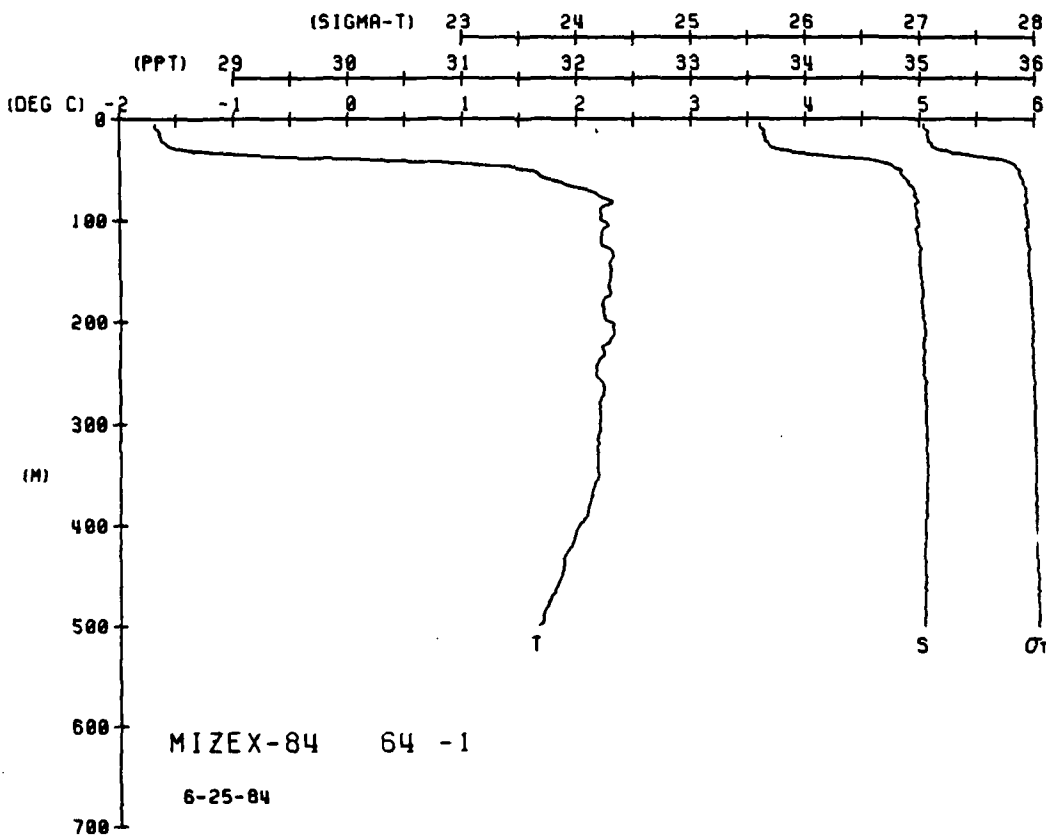
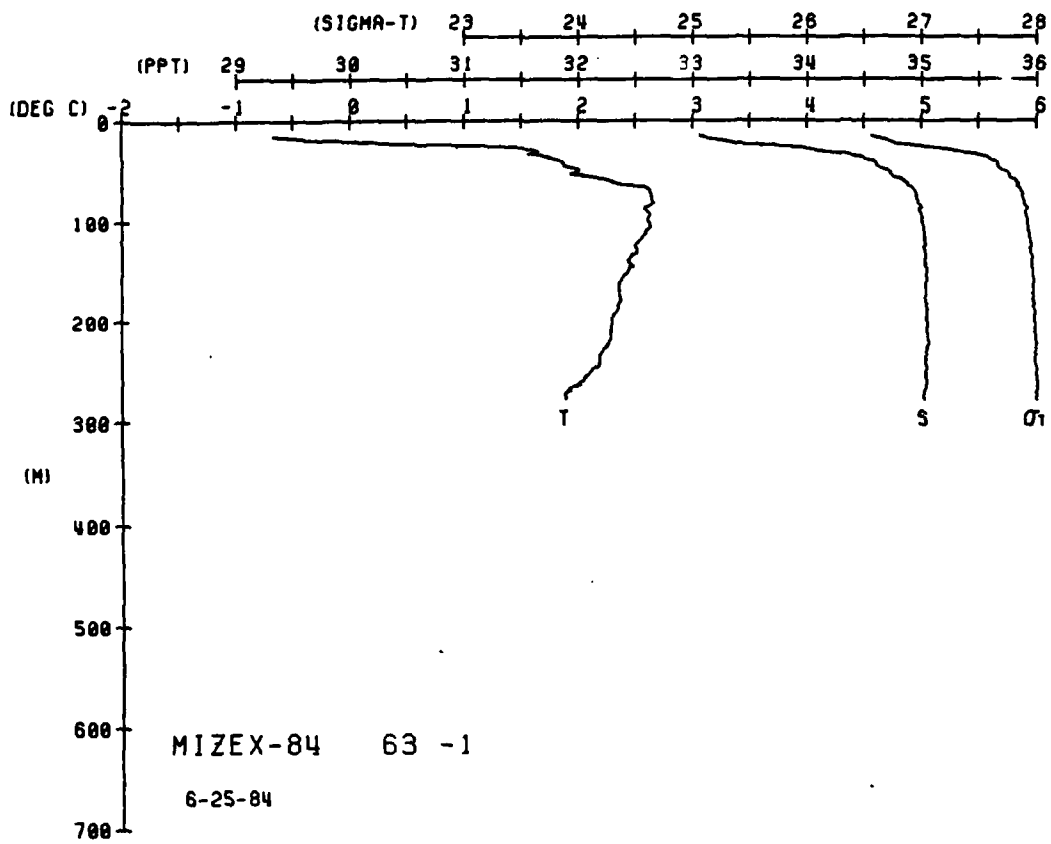


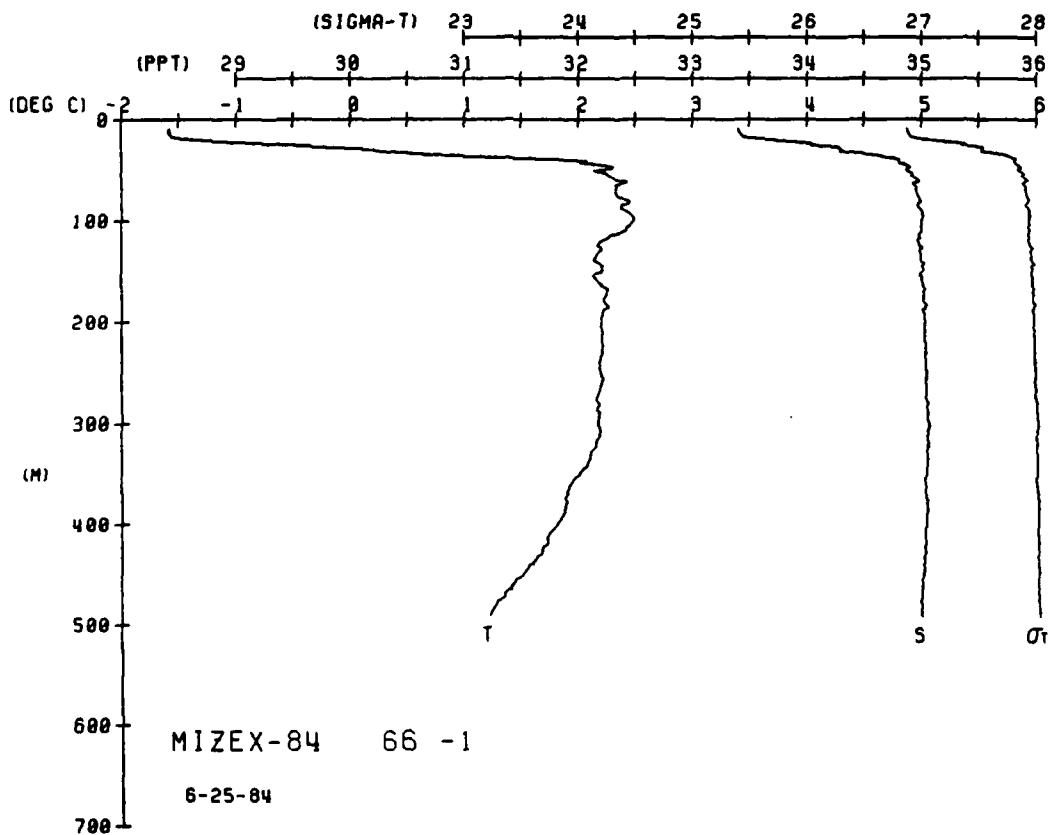
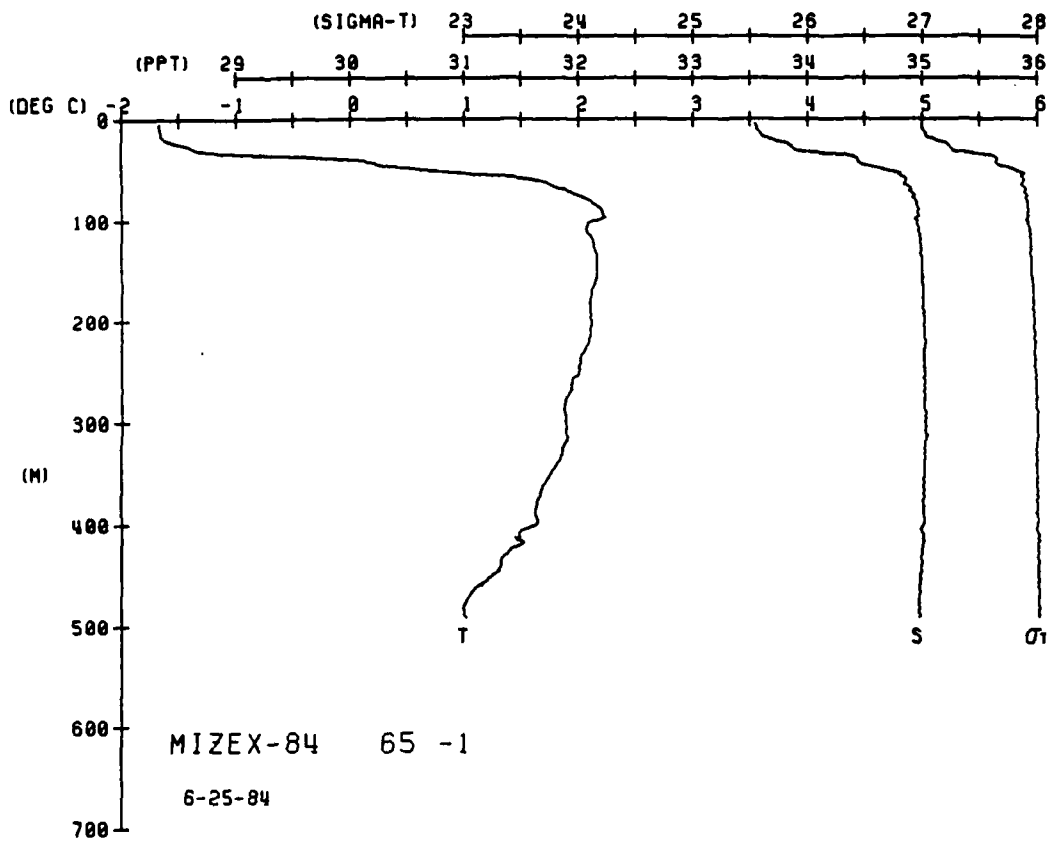
MIXE-84 STATION 63(1) CTD 25/JUN/1984 1020 GMT CODE = 1
LAT = 80.3500N LNG = 3.1400E LTK = 150.0 UGEN = 150.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

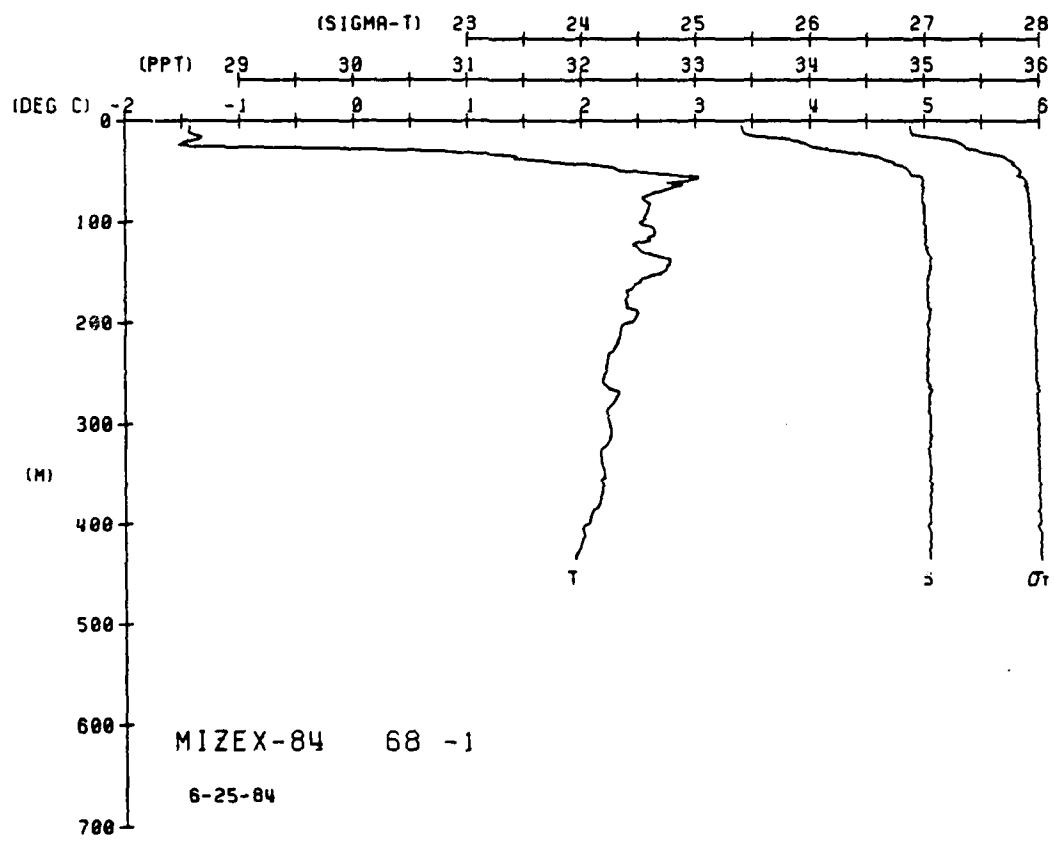
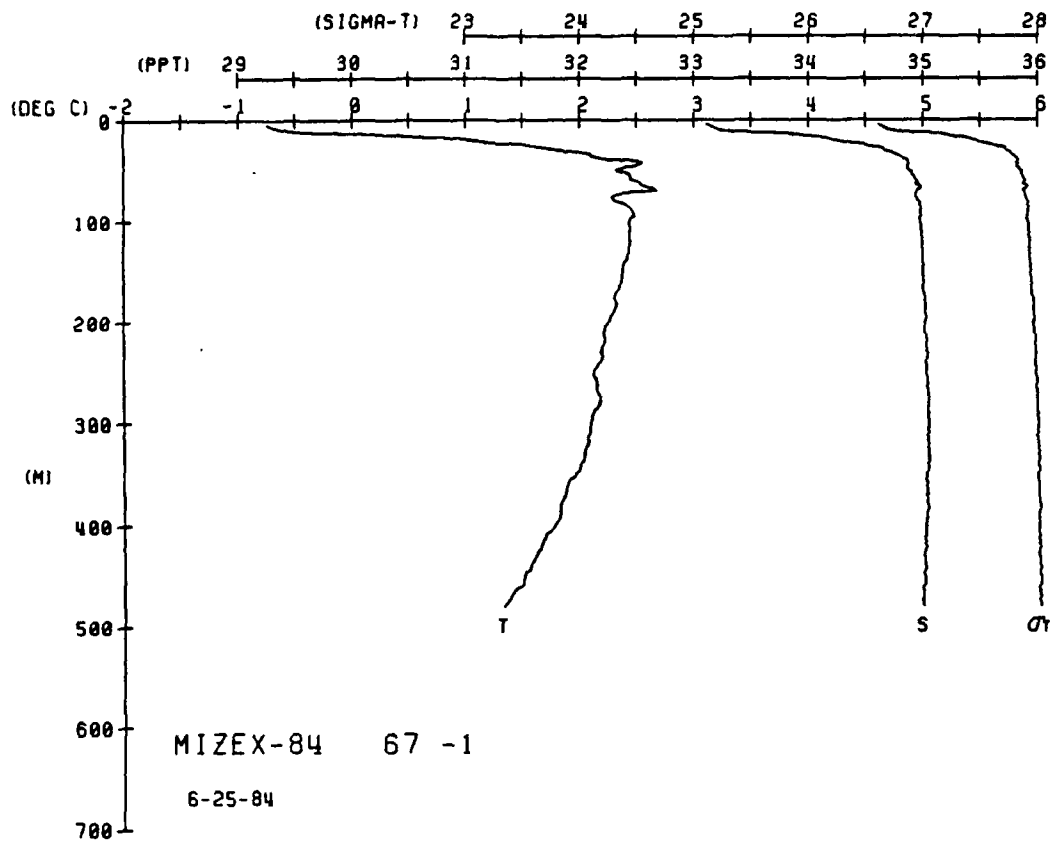
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYINT	SOUND
0	66	66	06	57	54	00	43
5	66	66	06	57	54	00	43
10	66	66	06	57	54	00	43
15	66	66	06	57	54	00	43
20	66	66	06	57	54	00	43
25	66	66	06	57	54	00	43
30	66	66	06	57	54	00	43
35	66	66	06	57	54	00	43
40	66	66	06	57	54	00	43
45	66	66	06	57	54	00	43
50	66	66	06	57	54	00	43
55	66	66	06	57	54	00	43
60	66	66	06	57	54	00	43
65	66	66	06	57	54	00	43
70	66	66	06	57	54	00	43
75	66	66	06	57	54	00	43
80	66	66	06	57	54	00	43
85	66	66	06	57	54	00	43
90	66	66	06	57	54	00	43
95	66	66	06	57	54	00	43
100	66	66	06	57	54	00	43

MIXE-84 STATION 64(1) CTD 25/JUN/1984 1034 GMT CODE = 1
LAT = 80.8333N LNG = 2.7500E LTK = 150.0 UGEN = 150.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYINT	SOUND
0	68	68	00	04	00	00	56
5	68	68	00	04	00	00	56
10	68	68	00	04	00	00	56
15	68	68	00	04	00	00	56
20	68	68	00	04	00	00	56
25	68	68	00	04	00	00	56
30	68	68	00	04	00	00	56
35	68	68	00	04	00	00	56
40	68	68	00	04	00	00	56
45	68	68	00	04	00	00	56
50	68	68	00	04	00	00	56
55	68	68	00	04	00	00	56
60	68	68	00	04	00	00	56
65	68	68	00	04	00	00	56
70	68	68	00	04	00	00	56
75	68	68	00	04	00	00	56
80	68	68	00	04	00	00	56
85	68	68	00	04	00	00	56
90	68	68	00	04	00	00	56
95	68	68	00	04	00	00	56
100	68	68	00	04	00	00	56







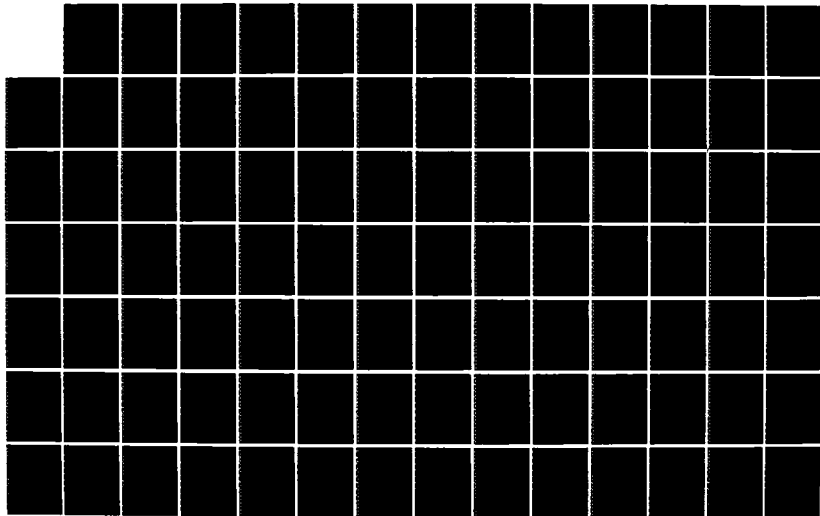
AD-A163 096

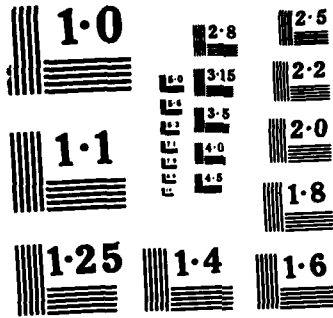
MARGINAL ICE ZONE EXPERIMENT - 1984 PHYSICAL
OCEANOGRAPHY REPORT: USNS LY. (U) LAMONT-DOHERTY
GEOLOGICAL OBSERVATORY PALISADES NY T O HANLEY DEC 85
LDGO-85-7 N00014-84-C-0132 F/G 8/10

2/9

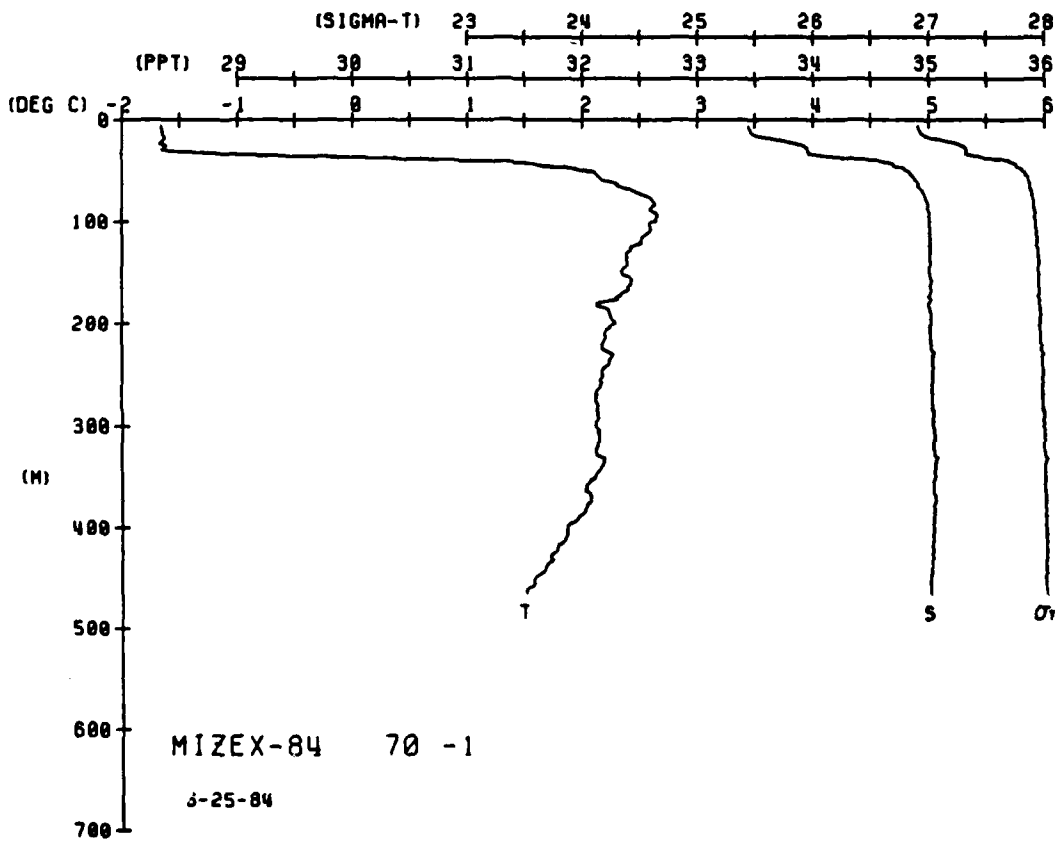
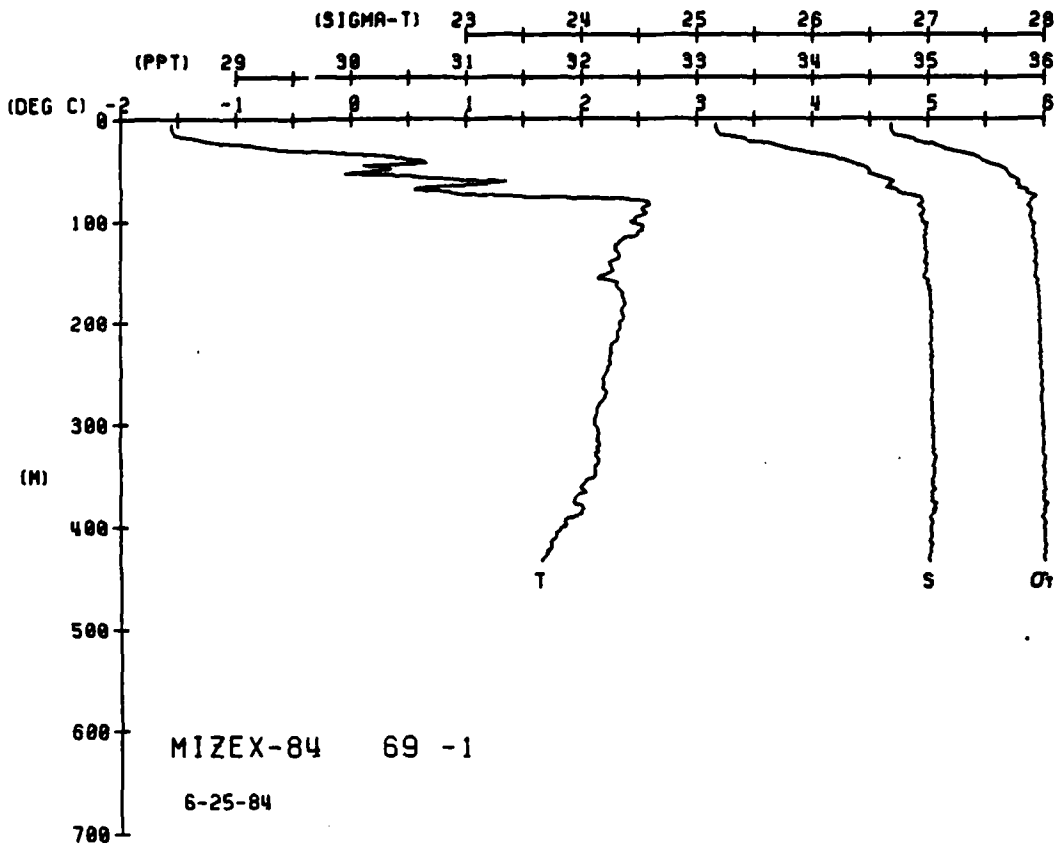
UNCLASSIFIED

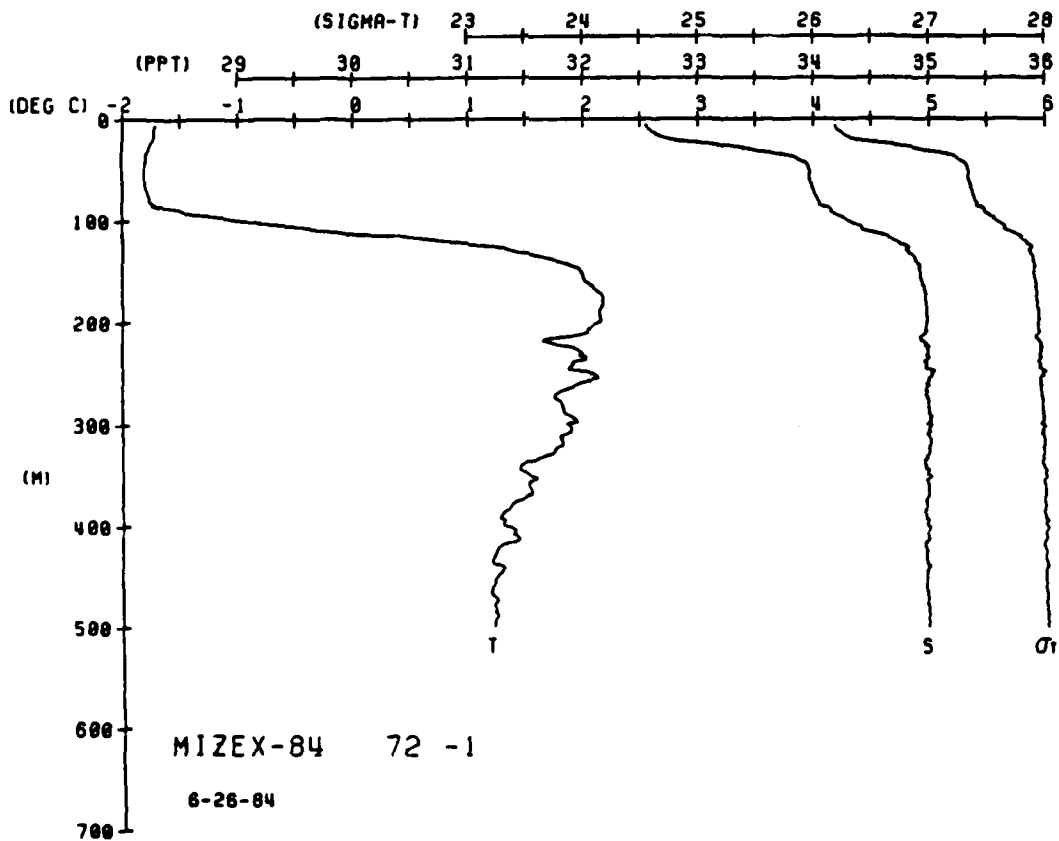
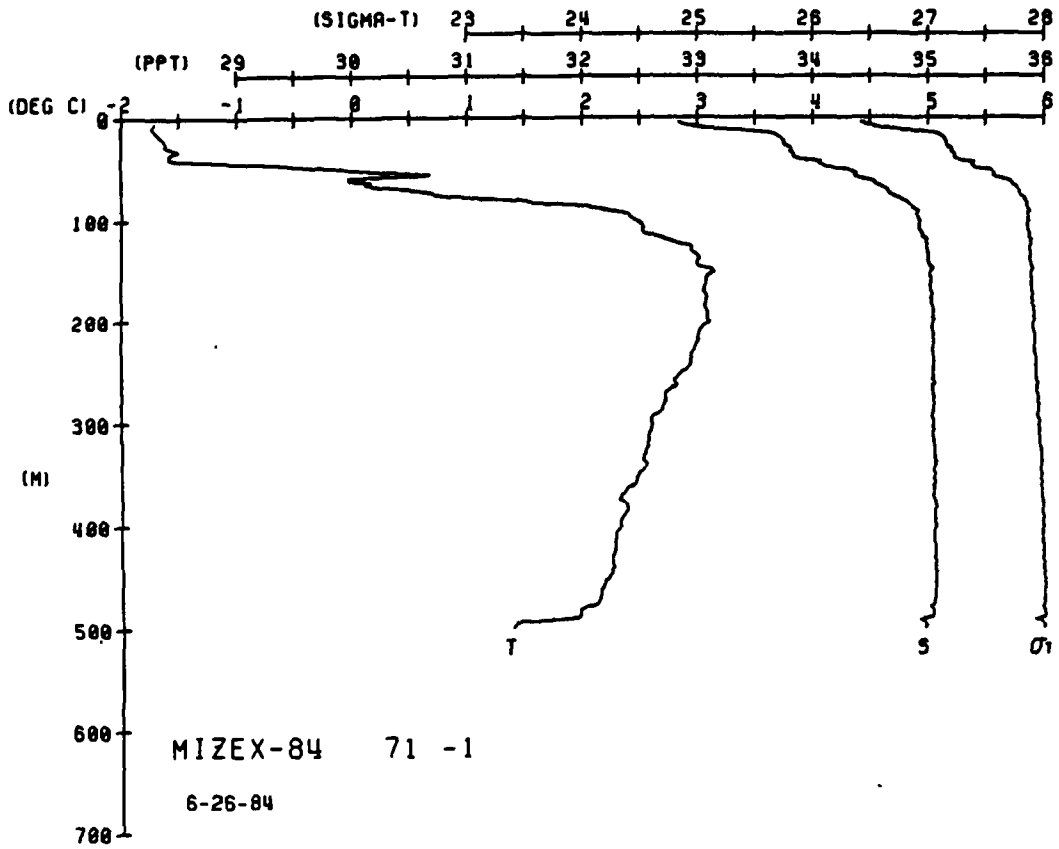
NL

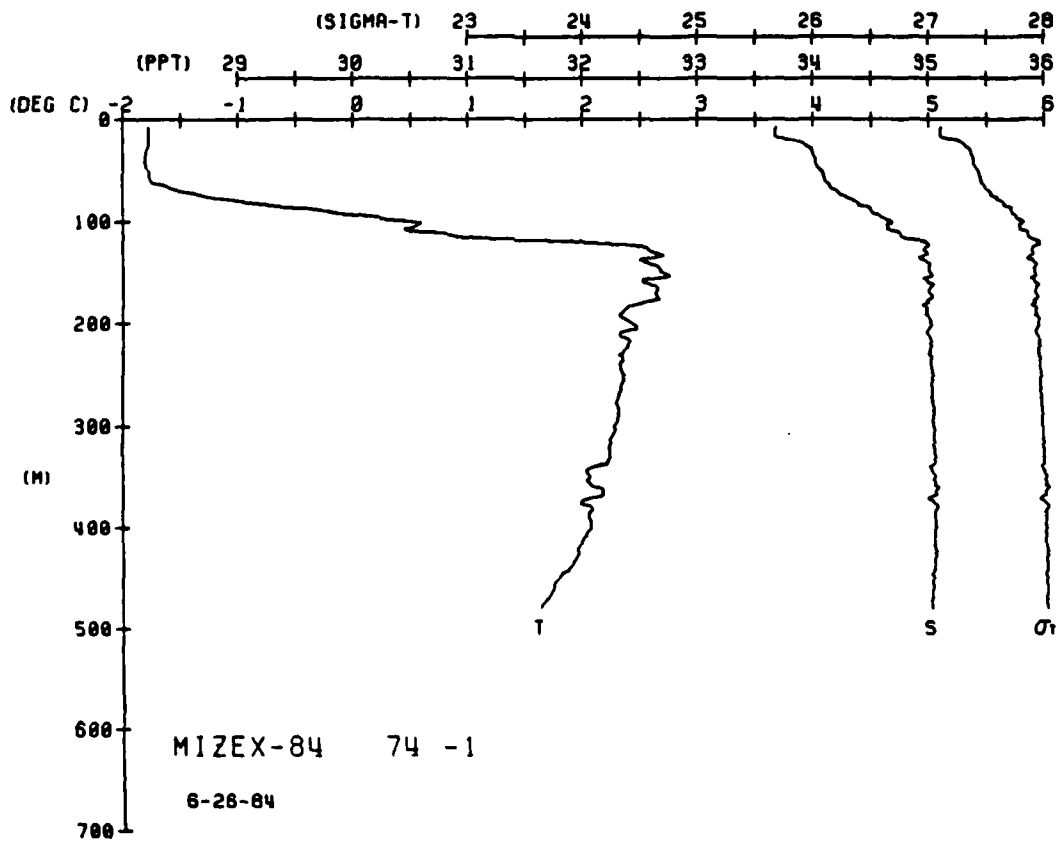
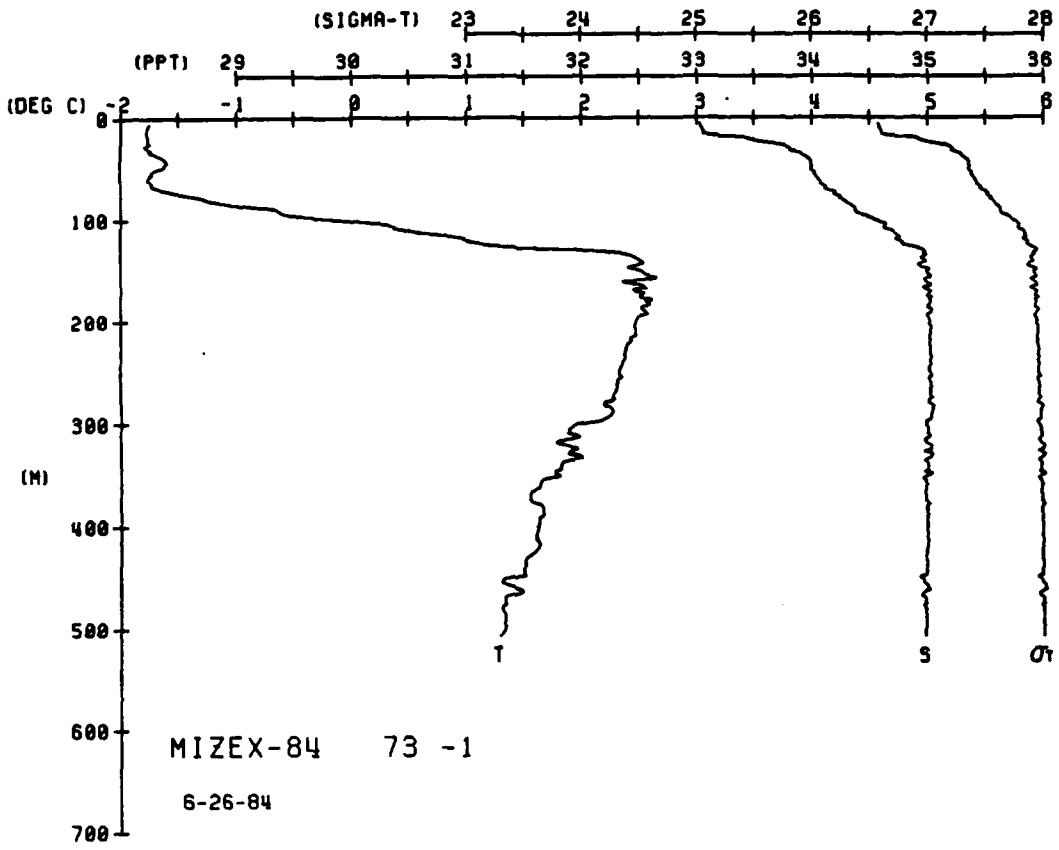


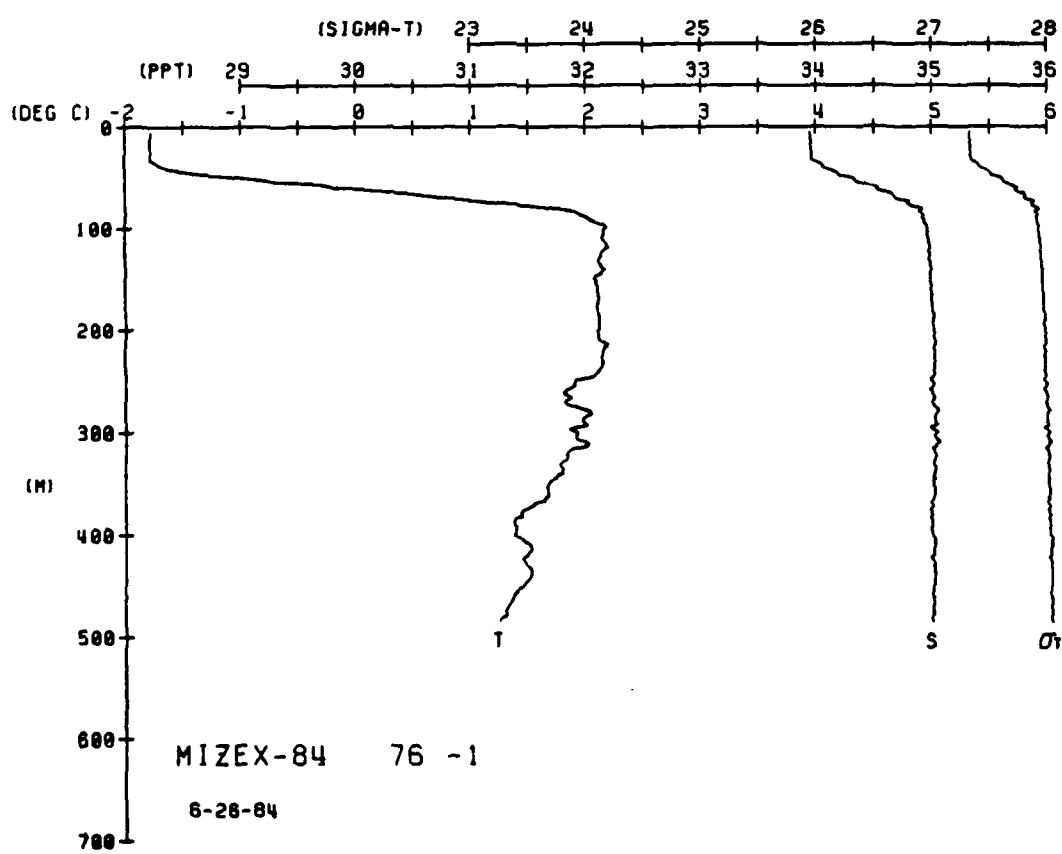
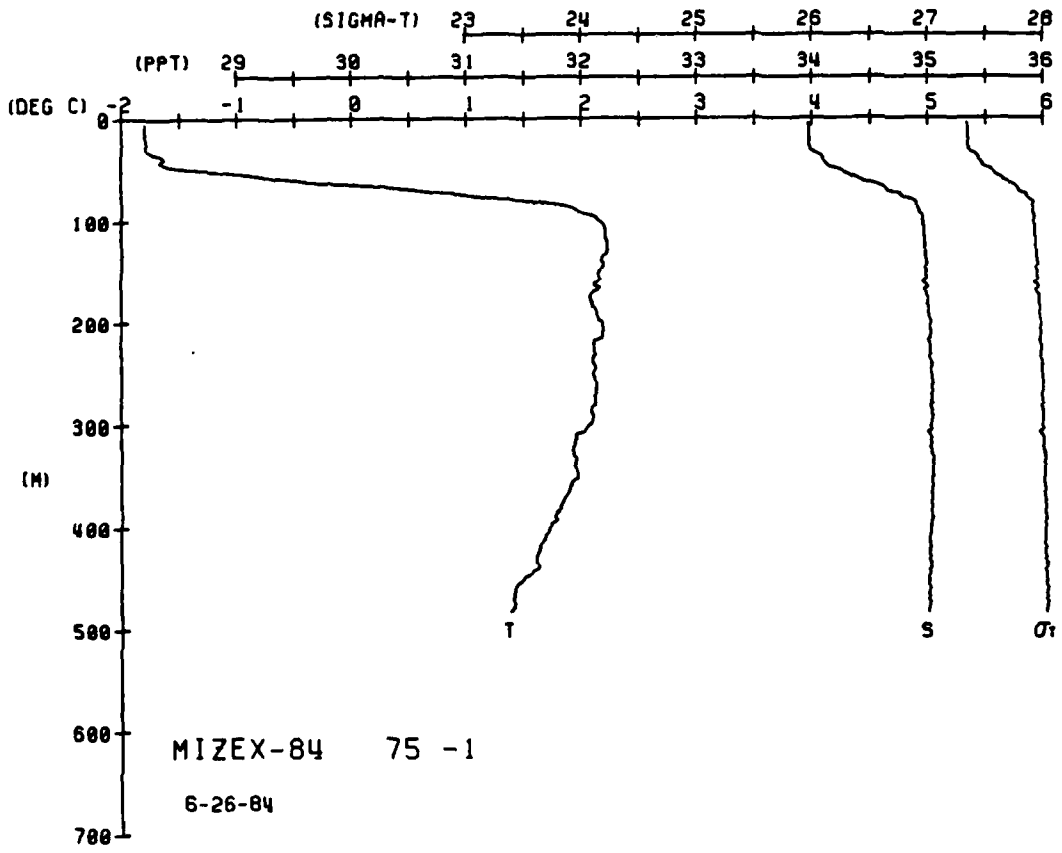


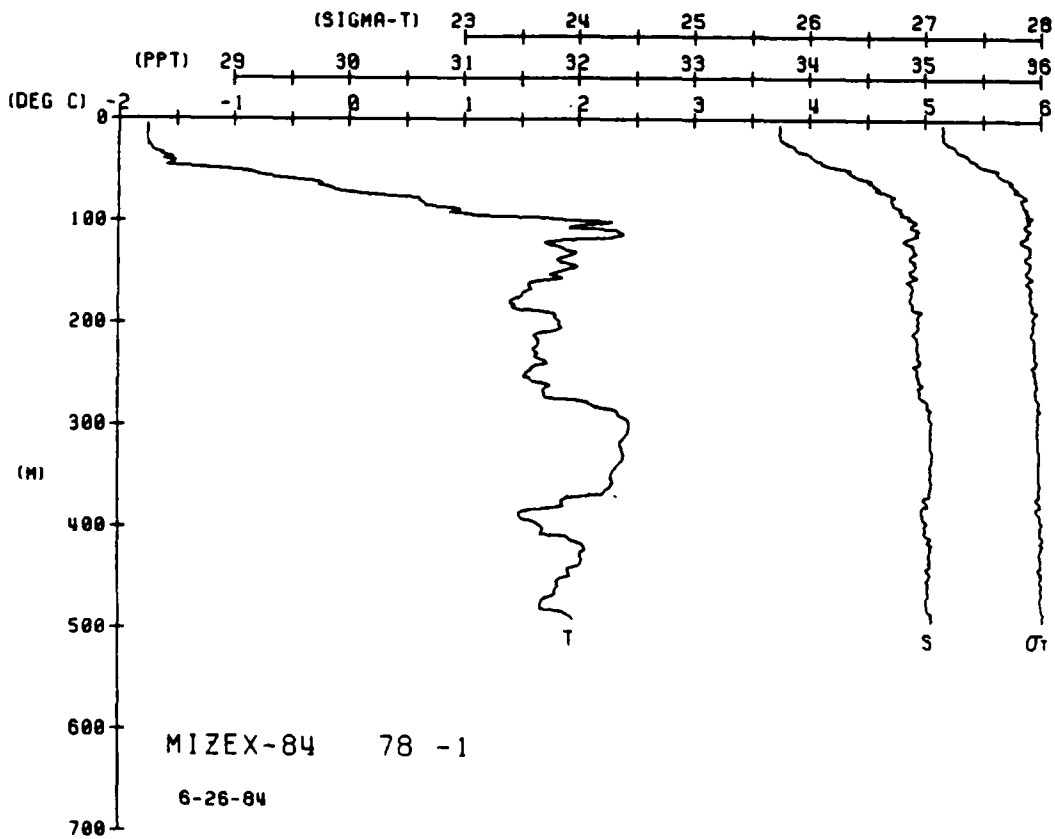
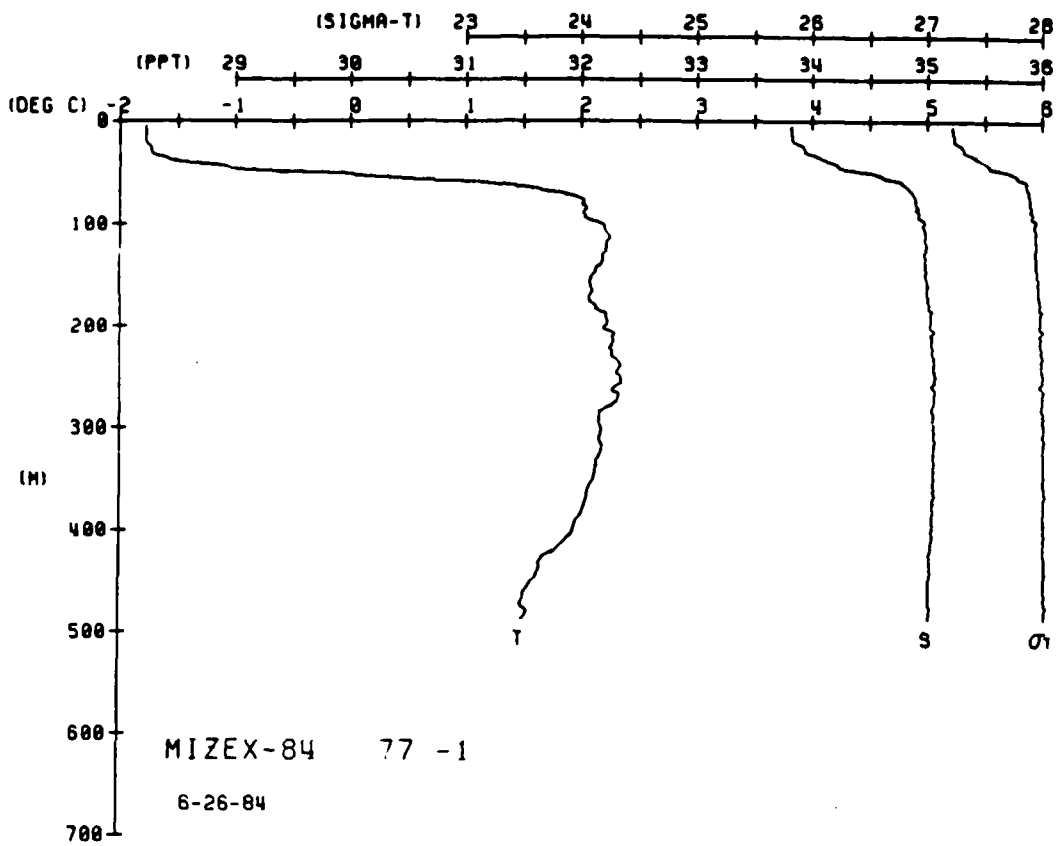
NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART

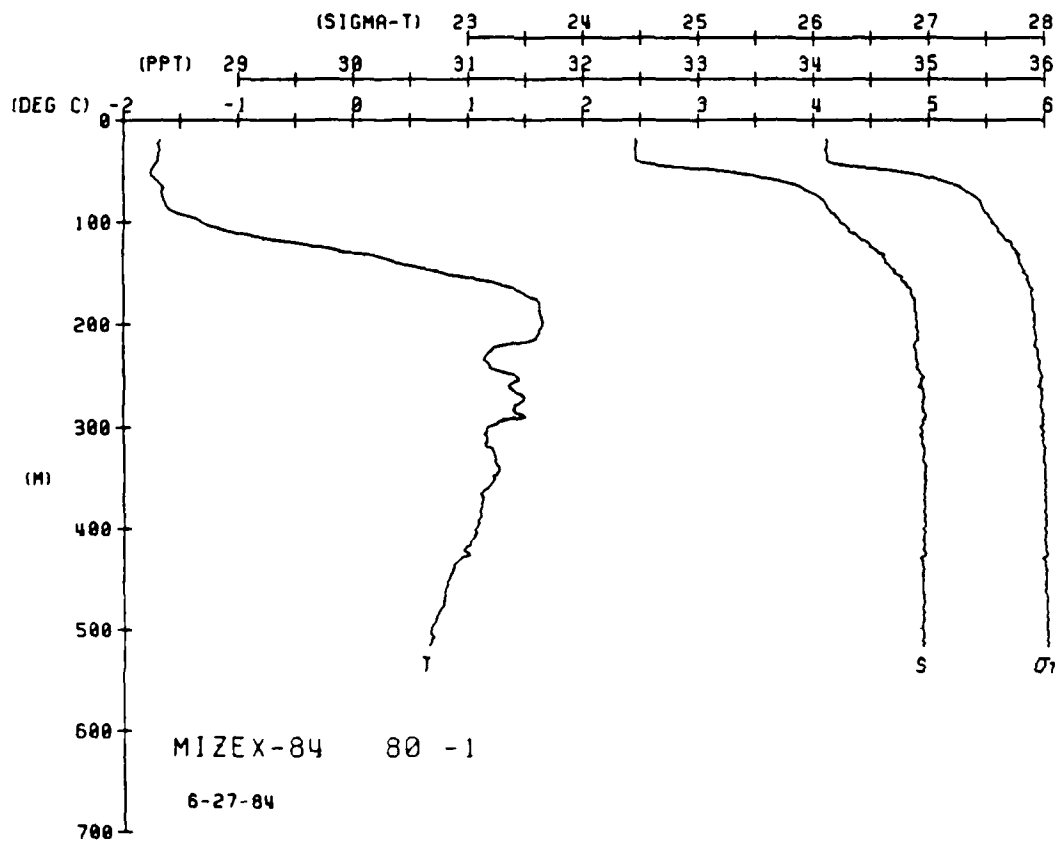
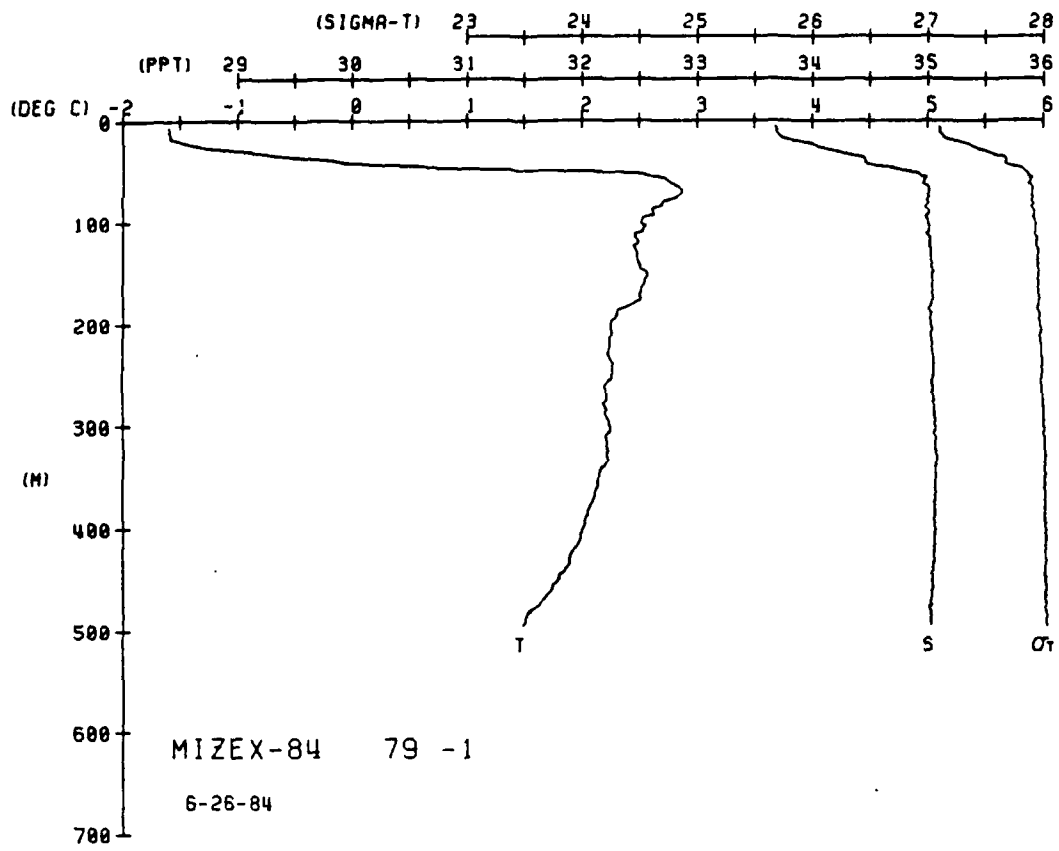






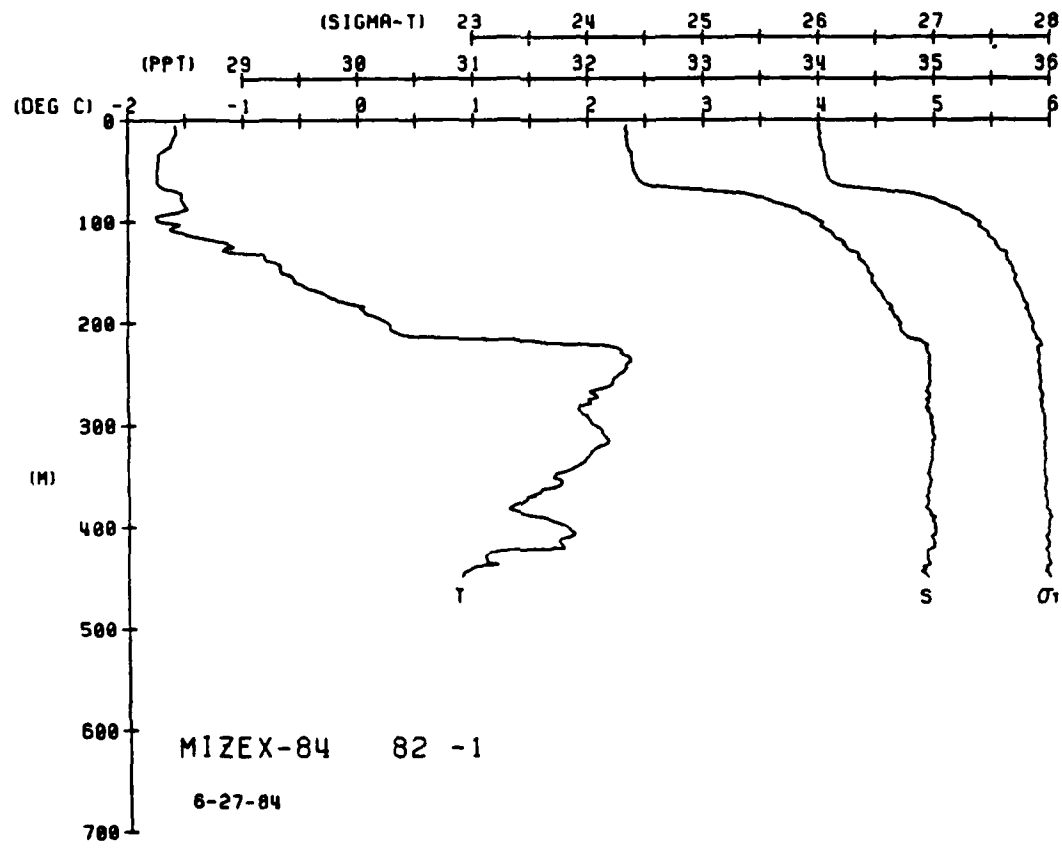
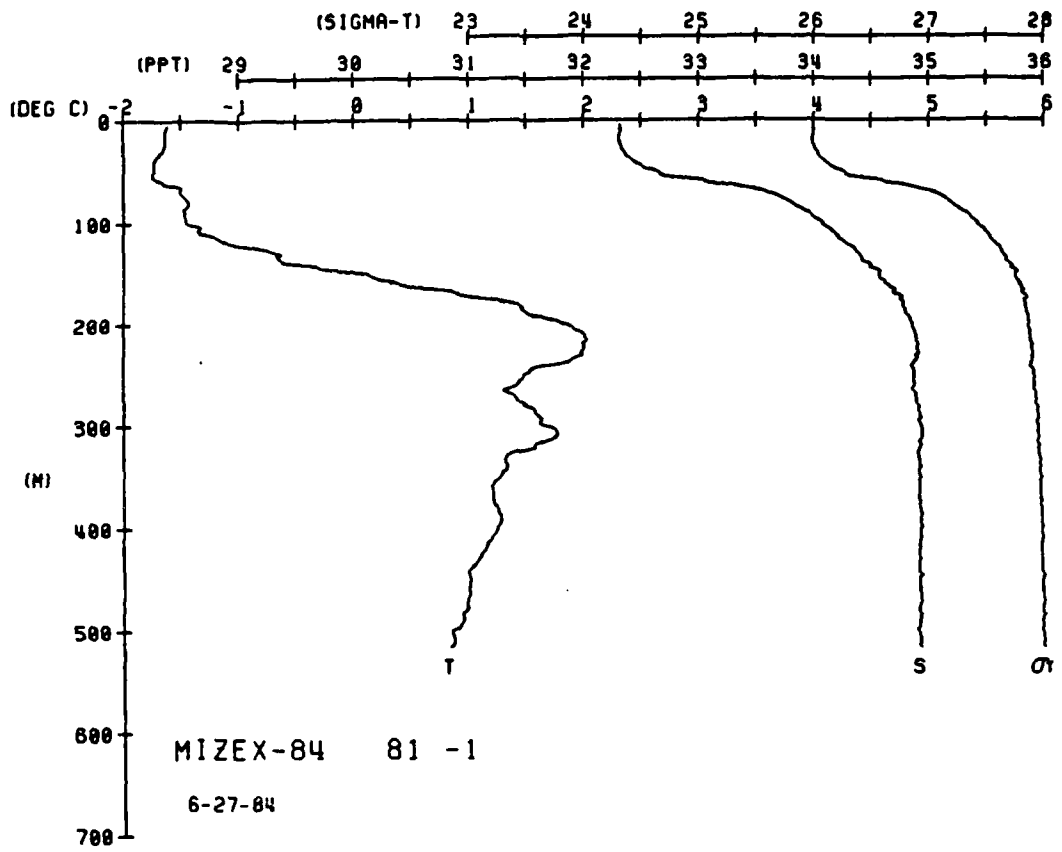


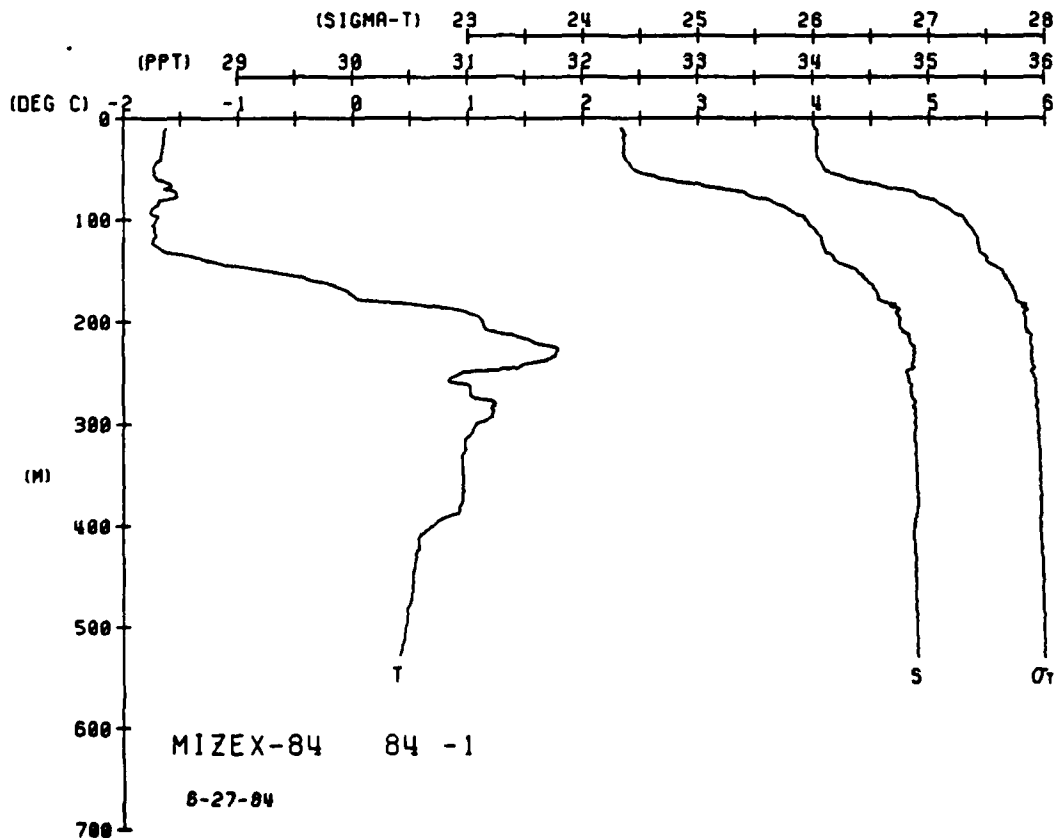
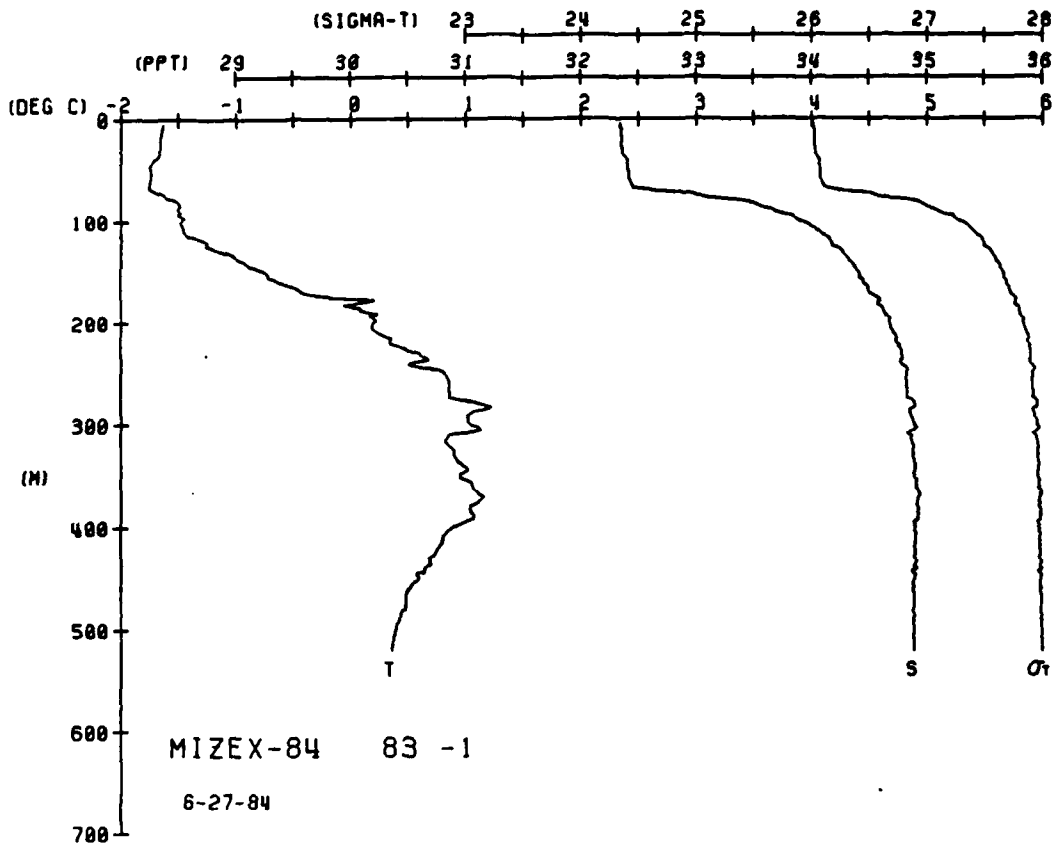


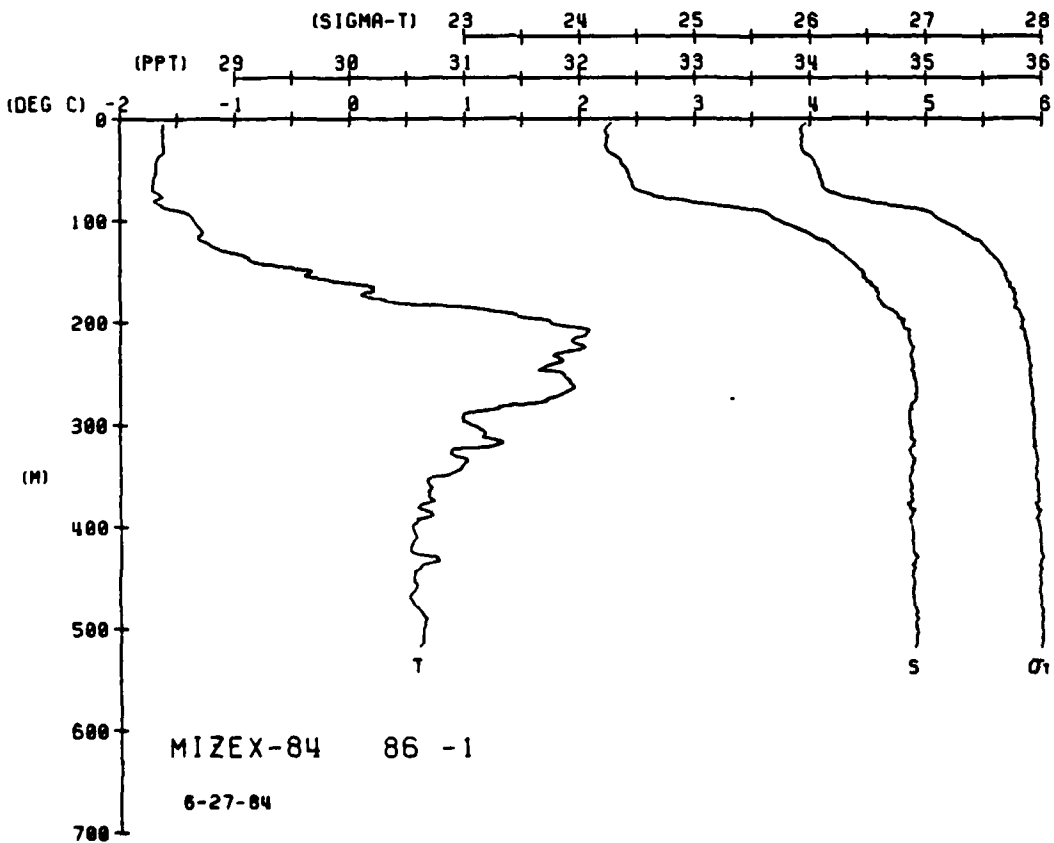
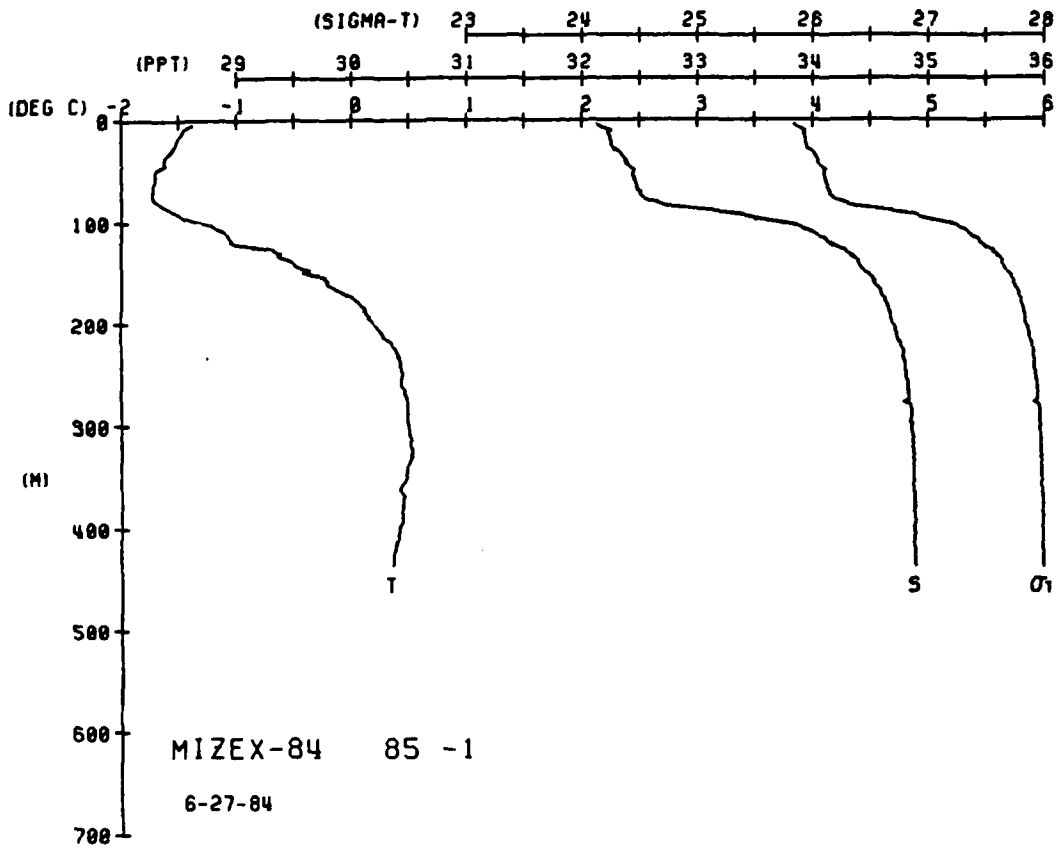


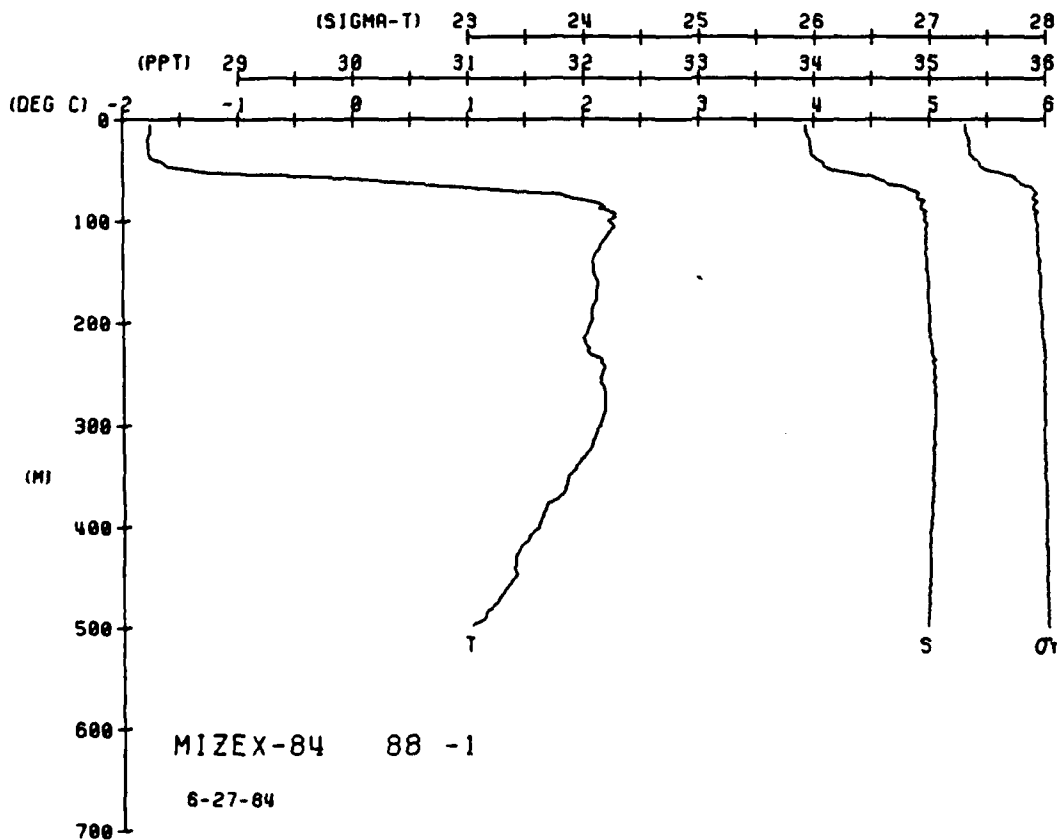
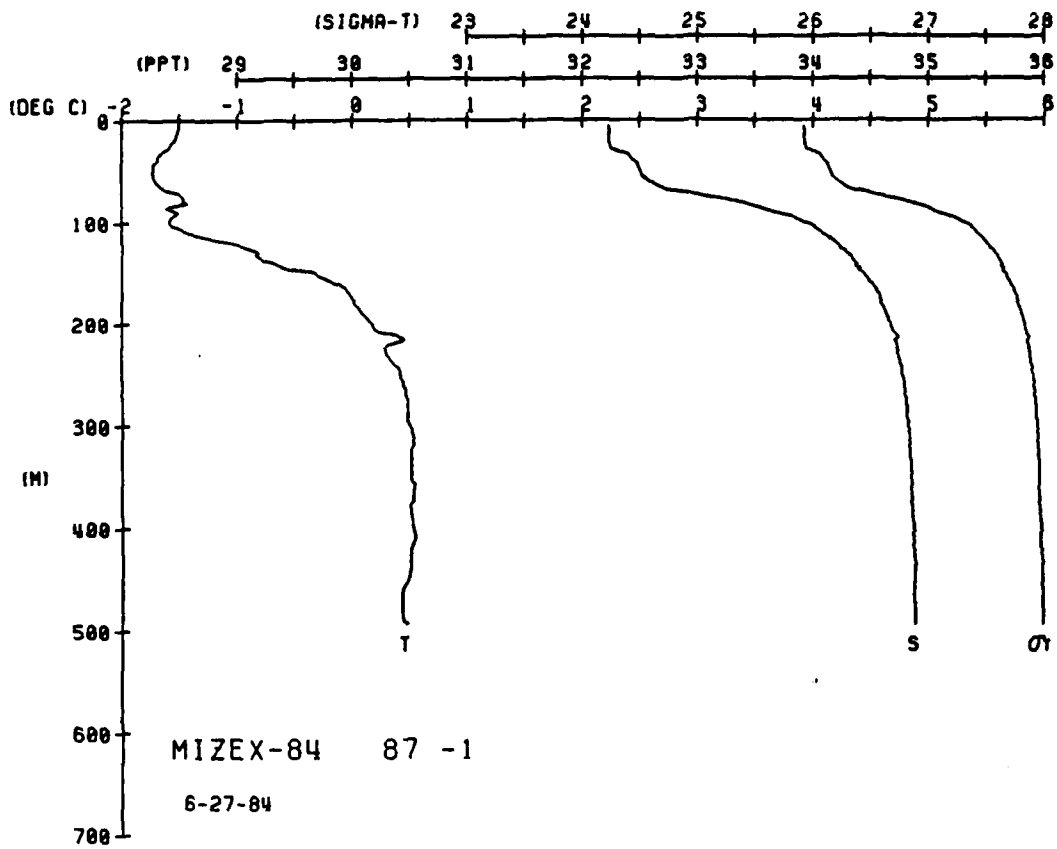
MIZEX-84 STATION 81(1) CID 27/JUN/1984 1001 GMT CODE = 1
LAT = 40.5667N LMG = 2.6117W LITER = 300.0 LGEK = 300.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0

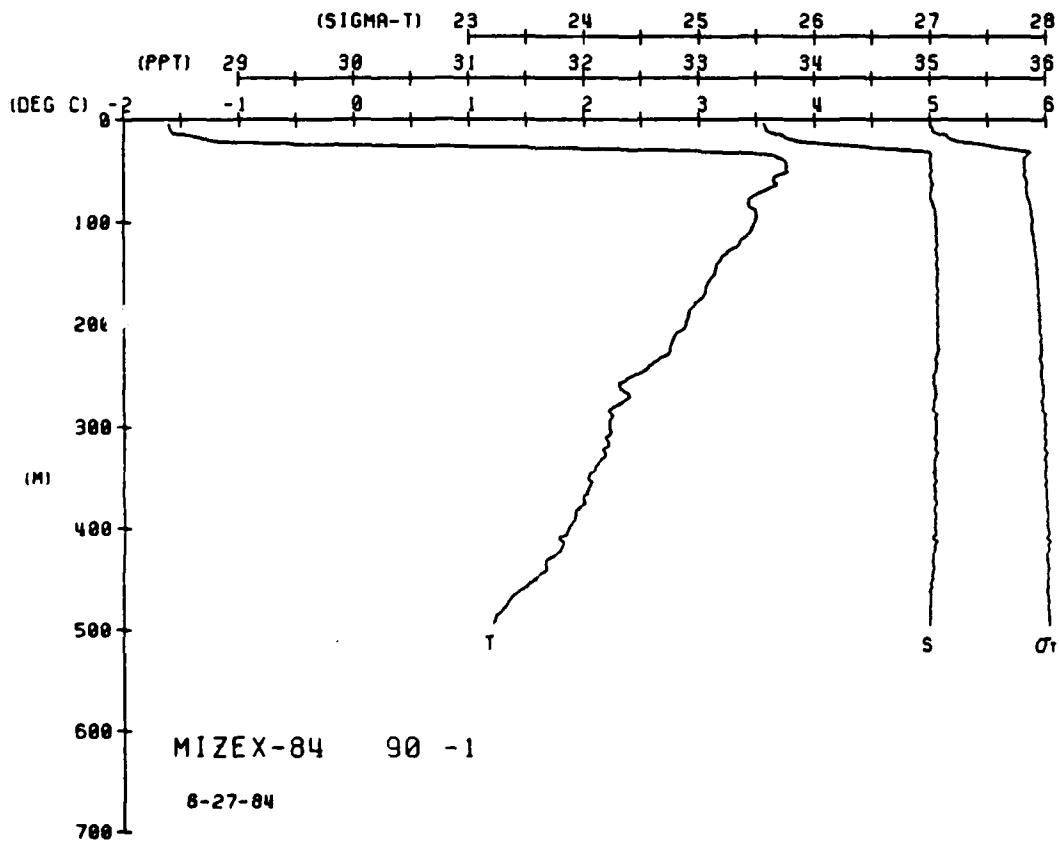
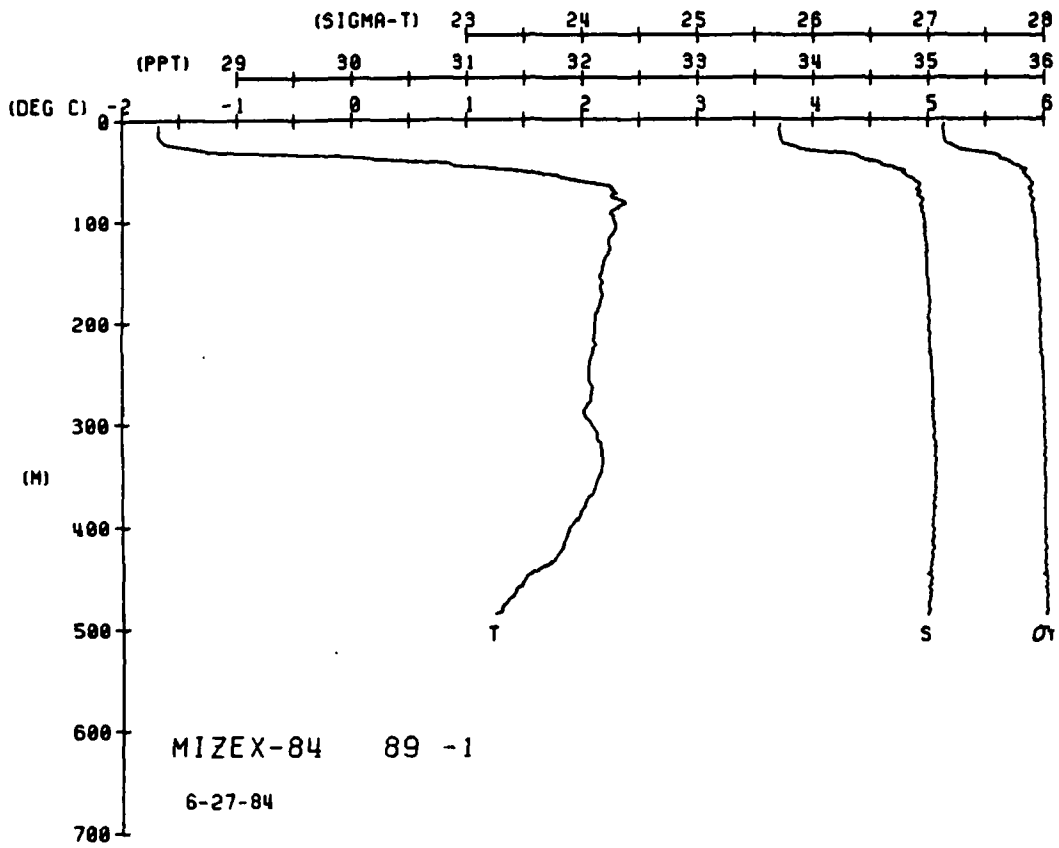
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DIMHT	SOUND
0	53.1	53.1	32.2	25.99	4.4	000	438.4
5	52.6	52.6	32.2	25.99	0.0	000	438.4
10	52.1	52.1	32.2	25.99	0.0	000	438.4
15	51.6	51.6	32.2	25.99	0.0	000	438.4
20	51.1	51.1	32.2	25.99	0.0	000	438.4
25	50.6	50.6	32.2	25.99	0.0	000	438.4
30	50.1	50.1	32.2	25.99	0.0	000	438.4
35	49.6	49.6	32.2	25.99	0.0	000	438.4
40	49.1	49.1	32.2	25.99	0.0	000	438.4
45	48.6	48.6	32.2	25.99	0.0	000	438.4
50	48.1	48.1	32.2	25.99	0.0	000	438.4
55	47.6	47.6	32.2	25.99	0.0	000	438.4
60	47.1	47.1	32.2	25.99	0.0	000	438.4
65	46.6	46.6	32.2	25.99	0.0	000	438.4
70	46.1	46.1	32.2	25.99	0.0	000	438.4
75	45.6	45.6	32.2	25.99	0.0	000	438.4
80	45.1	45.1	32.2	25.99	0.0	000	438.4
85	44.6	44.6	32.2	25.99	0.0	000	438.4
90	44.1	44.1	32.2	25.99	0.0	000	438.4
95	43.6	43.6	32.2	25.99	0.0	000	438.4
100	43.1	43.1	32.2	25.99	0.0	000	438.4
105	42.6	42.6	32.2	25.99	0.0	000	438.4
110	42.1	42.1	32.2	25.99	0.0	000	438.4
115	41.6	41.6	32.2	25.99	0.0	000	438.4
120	41.1	41.1	32.2	25.99	0.0	000	438.4
125	40.6	40.6	32.2	25.99	0.0	000	438.4
130	40.1	40.1	32.2	25.99	0.0	000	438.4
135	39.6	39.6	32.2	25.99	0.0	000	438.4
140	39.1	39.1	32.2	25.99	0.0	000	438.4
145	38.6	38.6	32.2	25.99	0.0	000	438.4
150	38.1	38.1	32.2	25.99	0.0	000	438.4
155	37.6	37.6	32.2	25.99	0.0	000	438.4
160	37.1	37.1	32.2	25.99	0.0	000	438.4
165	36.6	36.6	32.2	25.99	0.0	000	438.4
170	36.1	36.1	32.2	25.99	0.0	000	438.4
175	35.6	35.6	32.2	25.99	0.0	000	438.4
180	35.1	35.1	32.2	25.99	0.0	000	438.4
185	34.6	34.6	32.2	25.99	0.0	000	438.4
190	34.1	34.1	32.2	25.99	0.0	000	438.4
195	33.6	33.6	32.2	25.99	0.0	000	438.4
200	33.1	33.1	32.2	25.99	0.0	000	438.4
205	32.6	32.6	32.2	25.99	0.0	000	438.4
210	32.1	32.1	32.2	25.99	0.0	000	438.4
215	31.6	31.6	32.2	25.99	0.0	000	438.4
220	31.1	31.1	32.2	25.99	0.0	000	438.4
225	30.6	30.6	32.2	25.99	0.0	000	438.4
230	30.1	30.1	32.2	25.99	0.0	000	438.4
235	29.6	29.6	32.2	25.99	0.0	000	438.4
240	29.1	29.1	32.2	25.99	0.0	000	438.4
245	28.6	28.6	32.2	25.99	0.0	000	438.4
250	28.1	28.1	32.2	25.99	0.0	000	438.4
255	27.6	27.6	32.2	25.99	0.0	000	438.4
260	27.1	27.1	32.2	25.99	0.0	000	438.4
265	26.6	26.6	32.2	25.99	0.0	000	438.4
270	26.1	26.1	32.2	25.99	0.0	000	438.4
275	25.6	25.6	32.2	25.99	0.0	000	438.4
280	25.1	25.1	32.2	25.99	0.0	000	438.4
285	24.6	24.6	32.2	25.99	0.0	000	438.4
290	24.1	24.1	32.2	25.99	0.0	000	438.4
295	23.6	23.6	32.2	25.99	0.0	000	438.4
300	23.1	23.1	32.2	25.99	0.0	000	438.4
305	22.6	22.6	32.2	25.99	0.0	000	438.4
310	22.1	22.1	32.2	25.99	0.0	000	438.4
315	21.6	21.6	32.2	25.99	0.0	000	438.4
320	21.1	21.1	32.2	25.99	0.0	000	438.4
325	20.6	20.6	32.2	25.99	0.0	000	438.4
330	20.1	20.1	32.2	25.99	0.0	000	438.4
335	19.6	19.6	32.2	25.99	0.0	000	438.4
340	19.1	19.1	32.2	25.99	0.0	000	438.4
345	18.6	18.6	32.2	25.99	0.0	000	438.4
350	18.1	18.1	32.2	25.99	0.0	000	438.4
355	17.6	17.6	32.2	25.99	0.0	000	438.4
360	17.1	17.1	32.2	25.99	0.0	000	438.4
365	16.6	16.6	32.2	25.99	0.0	000	438.4
370	16.1	16.1	32.2	25.99	0.0	000	438.4
375	15.6	15.6	32.2	25.99	0.0	000	438.4
380	15.1	15.1	32.2	25.99	0.0	000	438.4
385	14.6	14.6	32.2	25.99	0.0	000	438.4
390	14.1	14.1	32.2	25.99	0.0	000	438.4
395	13.6	13.6	32.2	25.99	0.0	000	438.4
400	13.1	13.1	32.2	25.99	0.0	000	438.4
405	12.6	12.6	32.2	25.99	0.0	000	438.4
410	12.1	12.1	32.2	25.99	0.0	000	438.4
415	11.6	11.6	32.2	25.99	0.0	000	438.4
420	11.1	11.1	32.2	25.99	0.0	000	438.4
425	10.6	10.6	32.2	25.99	0.0	000	438.4
430	10.1	10.1	32.2	25.99	0.0	000	438.4
435	9.6	9.6	32.2	25.99	0.0	000	438.4
440	9.1	9.1	32.2	25.99	0.0	000	438.4
445	8.6	8.6	32.2	25.99	0.0	000	438.4
450	8.1	8.1	32.2	25.99	0.0	000	438.4
455	7.6	7.6	32.2	25.99	0.0	000	438.4
460	7.1	7.1	32.2	25.99	0.0	000	438.4
465	6.6	6.6	32.2	25.99	0.0	000	438.4
470	6.1	6.1	32.2	25.99	0.0	000	438.4
475	5.6	5.6	32.2	25.99	0.0	000	438.4
480	5.1	5.1	32.2	25.99	0.0	000	438.4
485	4.6	4.6	32.2	25.99	0.0	000	438.4
490	4.1	4.1	32.2	25.99	0.0	000	438.4
495	3.6	3.6	32.2	25.99	0.0	000	438.4
500	3.1	3.1	32.2	25.99	0.0	000	438.4
505	2.6	2.6	32.2	25.99	0.0	000	438.4
510	2.1	2.1	32.2	25.99	0.0	000	438.4
515	1.6	1.6	32.2	25.99	0.0	000	438.4
520	1.1	1.1	32.2	25.99	0.0	000	438.4
525	0.6	0.6	32.2	25.99	0.0	000	438.4
530	0.1	0.1	32.2	25.99	0.0	000	438.4
535	0.0	0.0	32.2	25.99	0.0	000	438.4
540	0.0	0.0	32.2	25.99	0.0	000	438.4
545	0.0	0.0	32.2	25.99	0.0	000	438.4
550	0.0	0.0	32.2	25.99	0.0	000	438.4
555	0.0	0.0	32.2	25.99	0.0	000	438.4
560	0.0	0.0	32.2	25.99	0.0	000	438.4
565	0.0	0.0	32.2	25.99	0.0	000	438.4
570	0.0	0.0	32.2	25.99	0.0	000	438.4
575	0.0	0.0	32.2	25.99	0.0	000	438.4
580	0.0	0.0	32.2	25.99	0.0	000	438.4
585	0.0	0.0	32.2	25.99	0.0	000	438.4
590	0.0	0.0	32.2	25.99	0.0	000	438.4
595	0.0	0.0	32.2	25.99	0.0	000	438.4
600	0.0	0.0	32.2	25.99	0.0	000	438.4
605	0.0	0.0	32.2	25.99	0.0	000	438.4
610	0.0	0.0	32.2	25.99	0.0	000	438.4
615	0.0	0.0	32.2	25.99	0.0	000	438.4
620	0.0	0.0	32.2	25.99	0.0	000	438.4
625	0.0	0.0	32.2	25.99	0.0	000	438.4
630	0.0	0.0	32.2	25.99	0.0	000	438.4
635	0.0	0.0	32.2	25.99	0.0	000	438.4
640	0.0	0.0	32.2	25.99	0.0	000	438.4
645	0.0	0.0	32.2	25.99	0.0	000	438.4
650	0.0	0.0	32.2	25.99	0.0	000	438.4
655	0.0	0.0	32.2	25.99	0.0	000	438.4
660	0.0	0.0	32.2	25.99	0.0	000	438.4
665	0.0	0.0	32.2	25.99	0.0	000	438.4
670	0.0	0.0	32.2	25.99	0.0	000	438.4
675	0.0	0.0	32.2	25.99	0.0	000	438.4
680	0.0	0.0	32.2	25.99	0.0	000	438.4
685	0.0	0.0	32.2	25.99	0.0	000	438.4
690	0.0	0.0	32.2	25.99	0.0	000	438.4
695	0.0	0.0	32.2	25.99	0.0	000	438.4
700	0.0	0.0	32.2	25.99	0.0	000	438.4
705	0.0	0.0	32.2	25.99	0.0	000	438.4
710	0.0	0.0	32.2	25.99	0.0	000	438.4
715	0.0	0.0	32.2	25.99	0.0	000	438.4
720	0.0	0.0	32.2	25.99	0.0	000	438.4
725	0.0	0.0	32.2	25.99	0.0	000	438.4
730	0.0	0.0	32.2	25.99	0.0	000	438.4
735	0.0	0.0	32.2	25.99	0.0	000	438.4
740	0.0	0.0	32.2	25.99	0.0	000	438.4
745	0.0	0.0	32.2	25.99	0.0	000	438.4
750	0.0	0.0	32.2	25.99	0.0	000	438.4
755	0.0	0.0	32.2	25.99	0.0	000	438.4
760	0.0	0.0	32.2	25.99	0.0	000	438.4
765	0.0	0.0	32.2	25.99	0.0	000	438.4
770	0.0	0.0	32.2	25.99	0.0	000	438.4
775	0.0	0.0	32.2	25.99	0.0	000	438.4
780	0.0	0.0	32.2	25.99	0.0	000	438.4
785	0.0	0.0	32.2	25.99	0.0	000	438.4
790	0.0	0.0	32.2	25.99	0.0	000	438.4
795	0.0	0.0	32.2	25.99	0.0	000	438.4
800	0.0	0.0	32.2	25.99	0.0	000	438.4
805	0.0	0.0	32.2	25.99	0.0	000	438.4
810	0.0	0.0	32.2	25.99	0.0	000	438.4
815	0.0	0.0	32.2	25.99	0.0	000	438.4
820	0.0	0.0	32.				

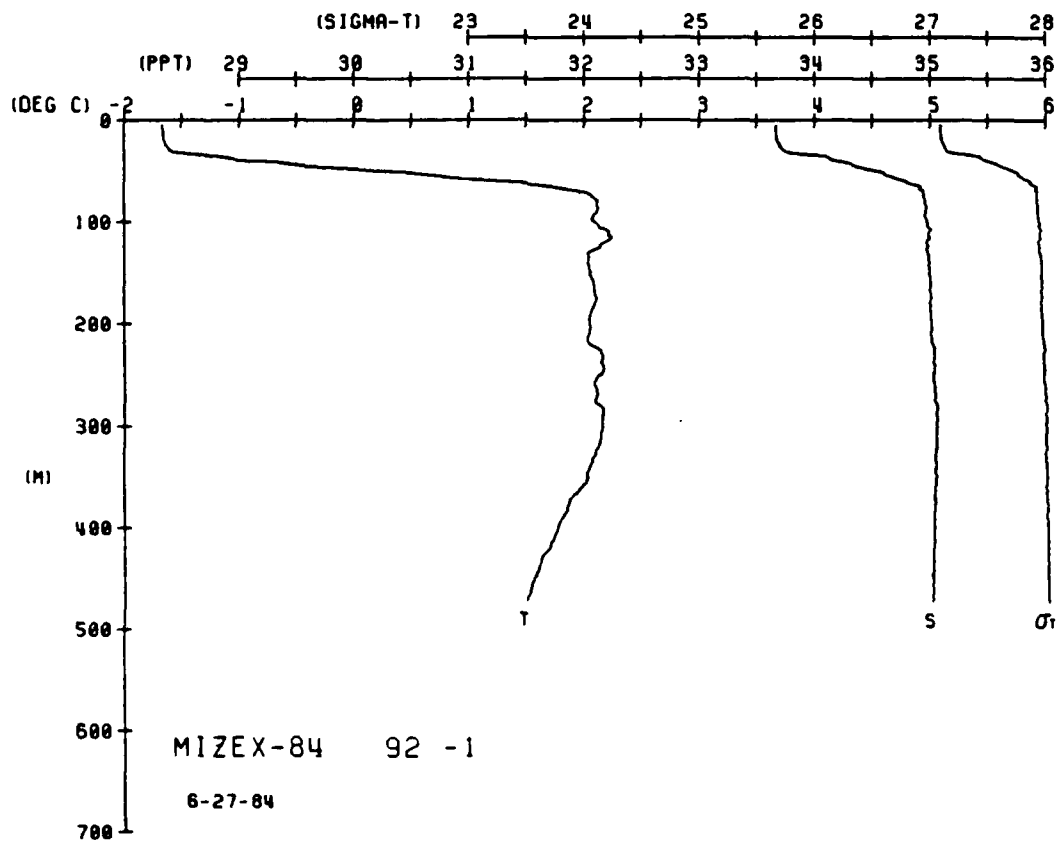
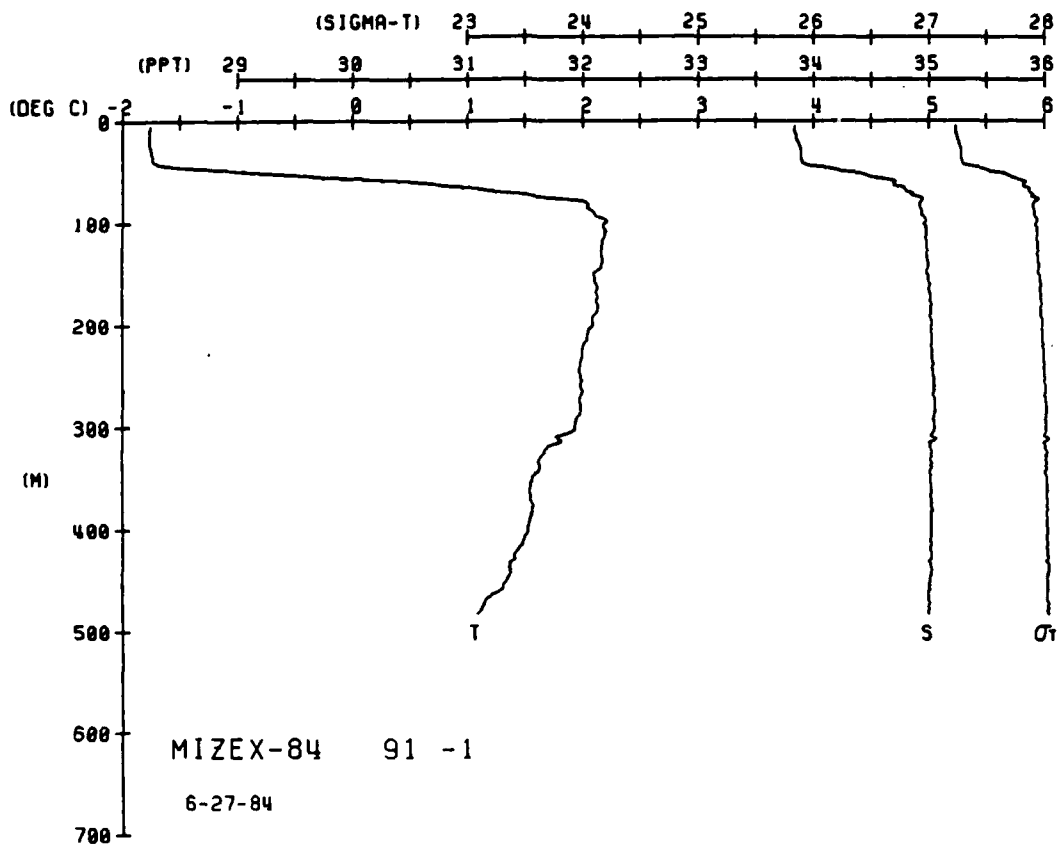


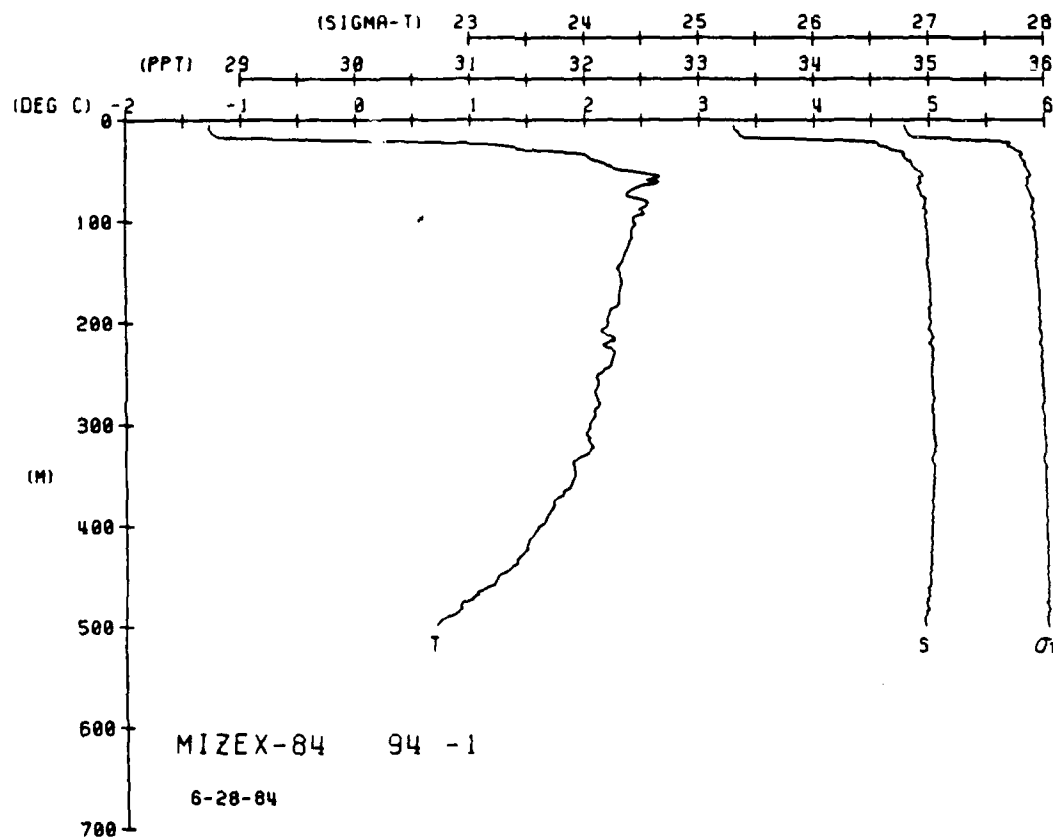
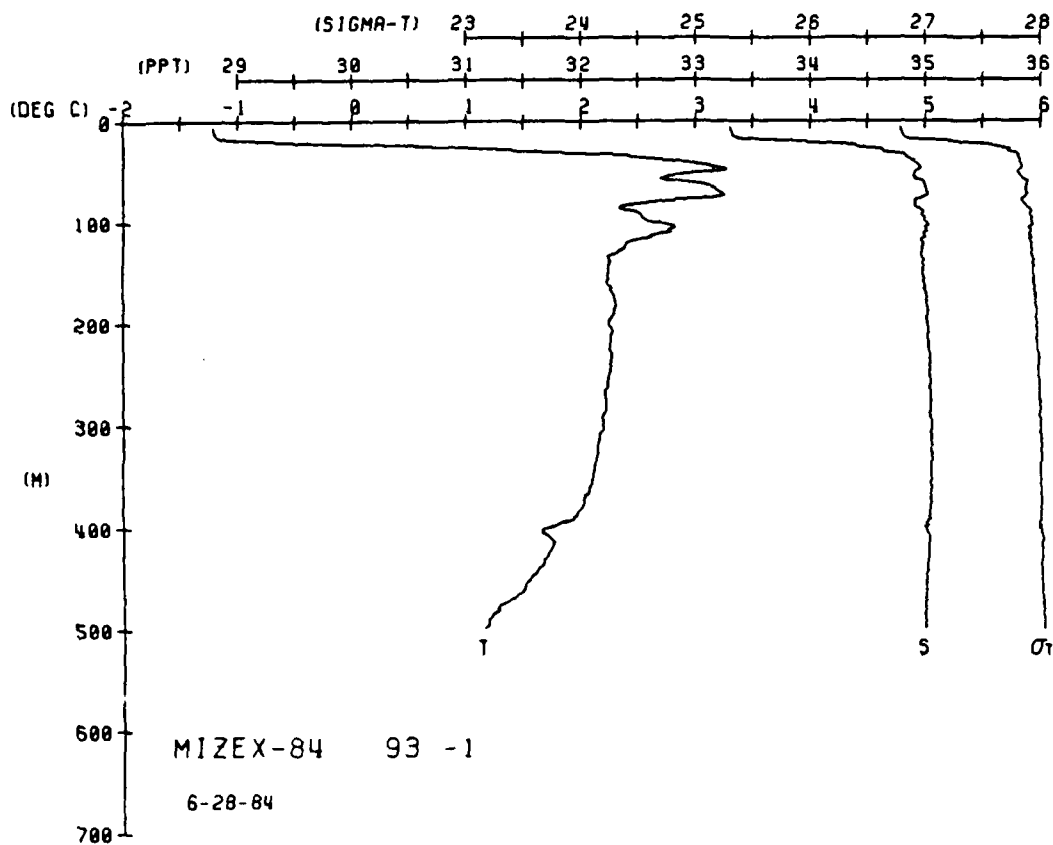


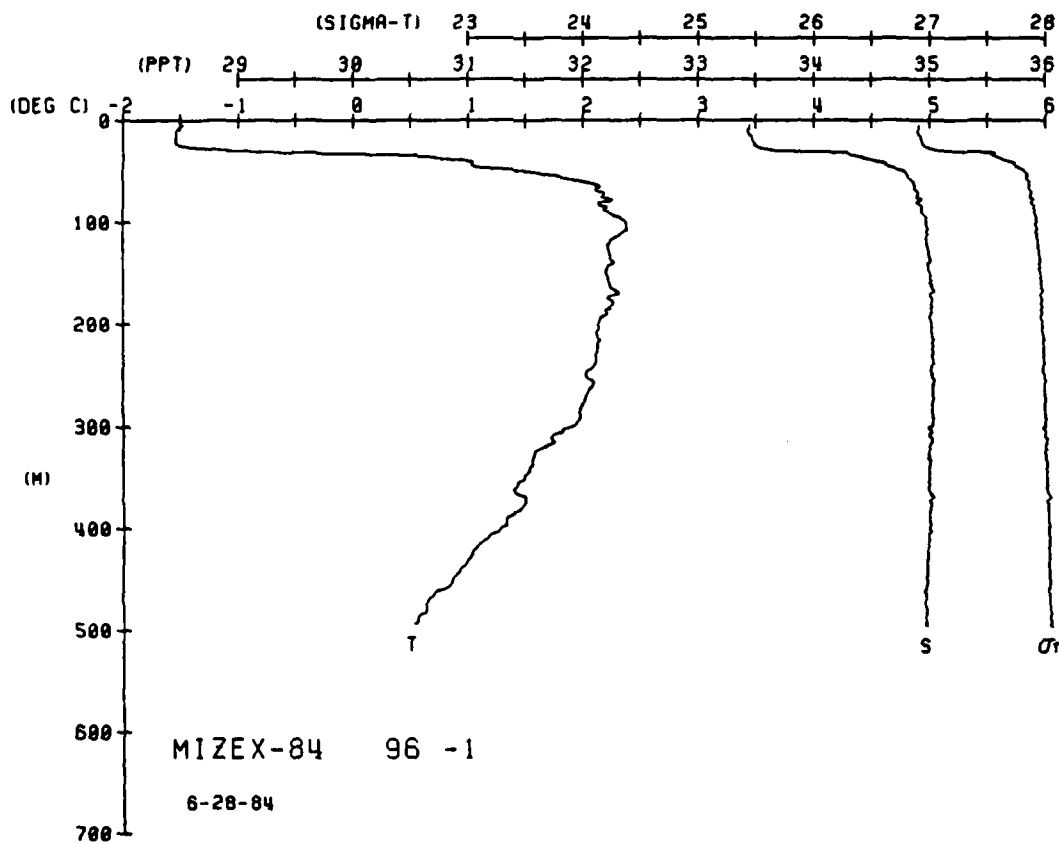
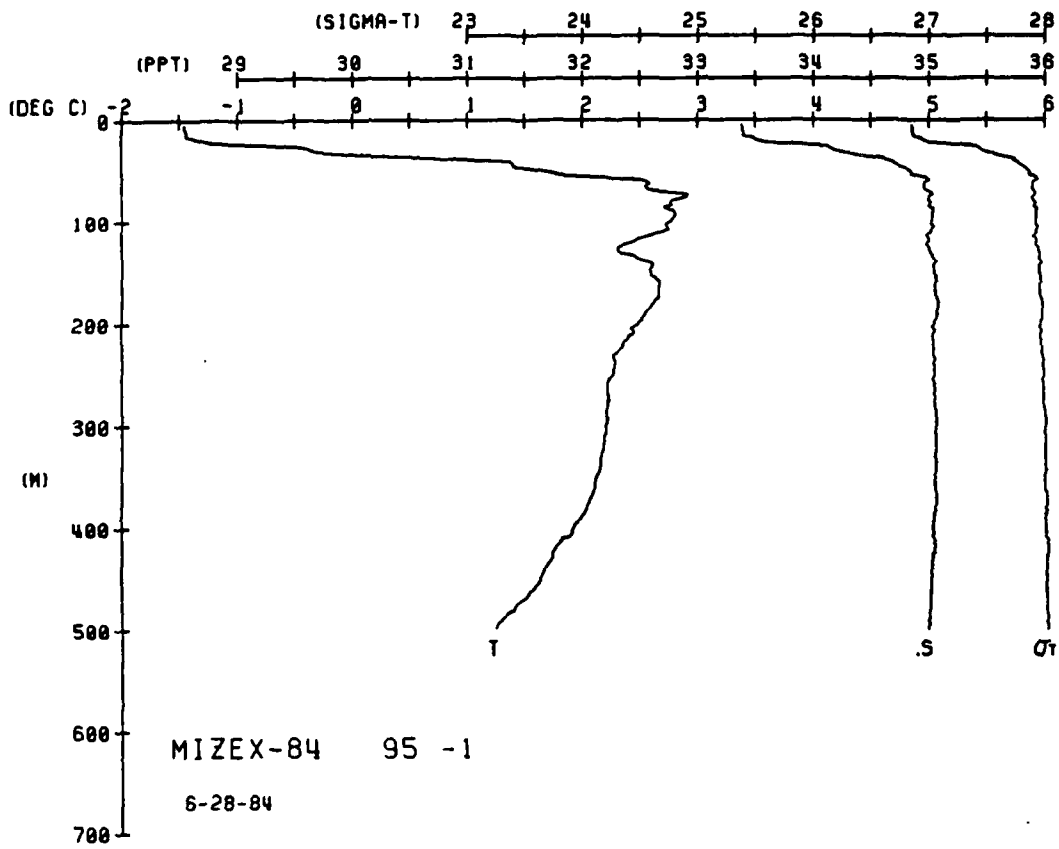


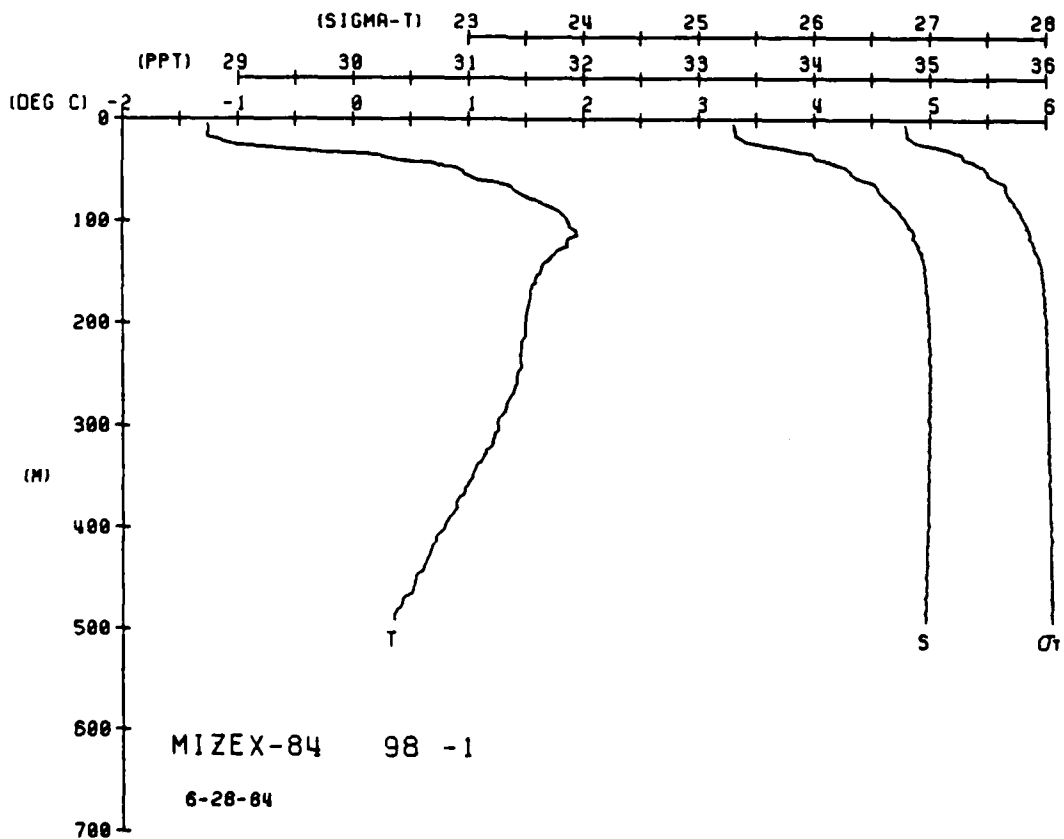
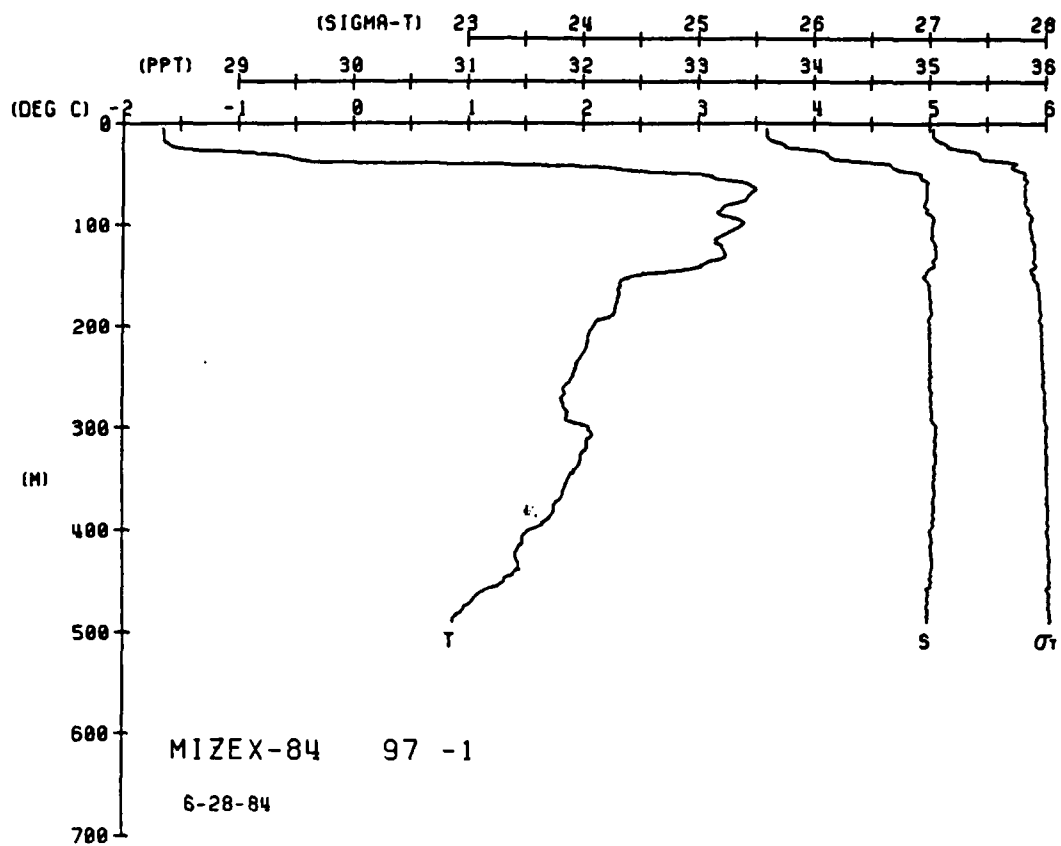


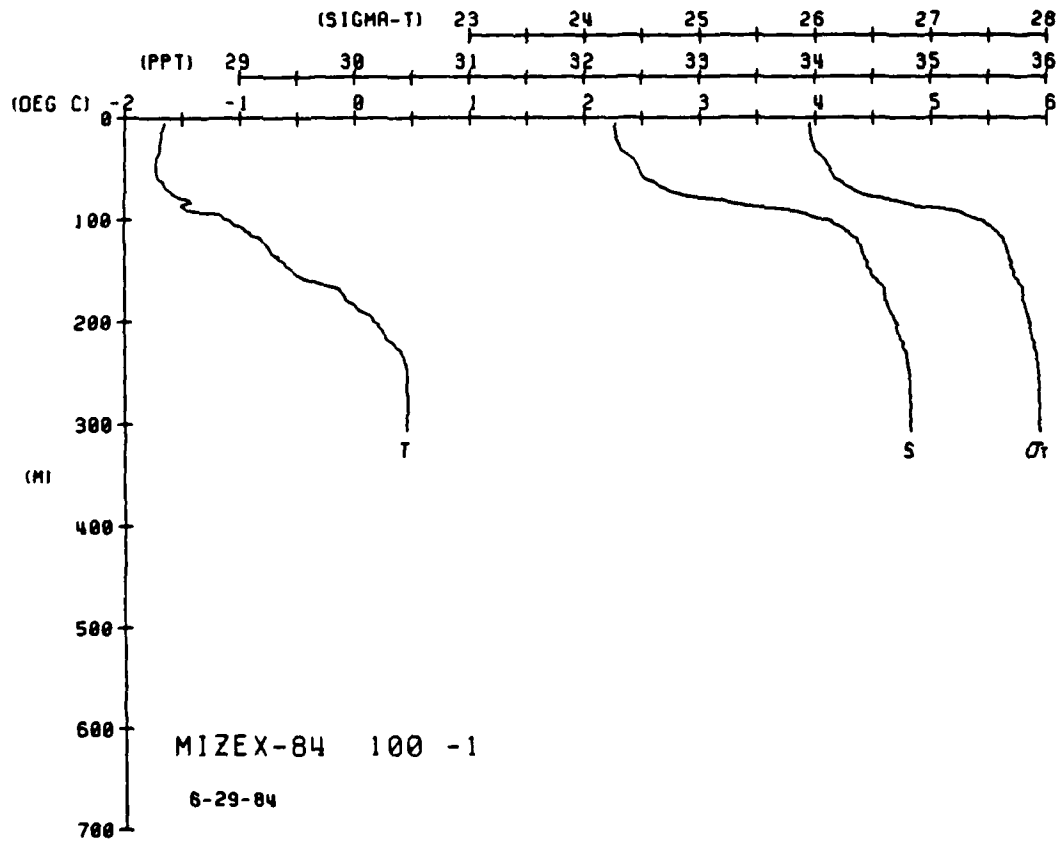
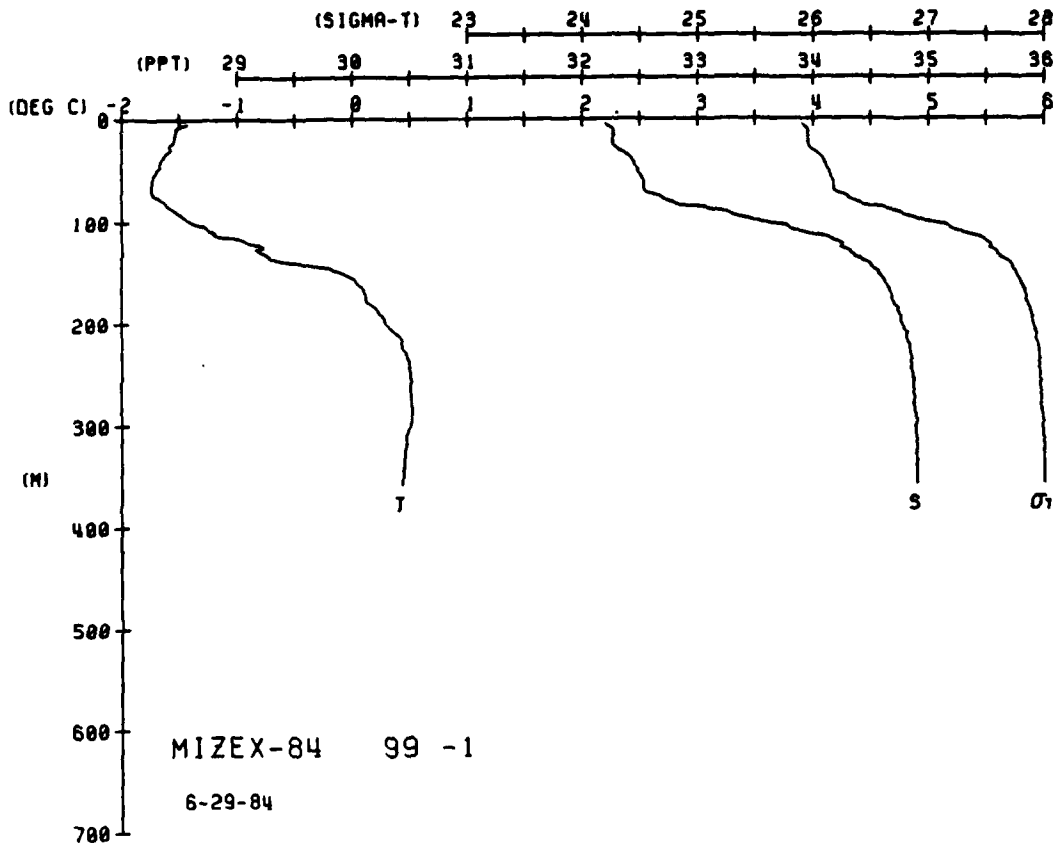


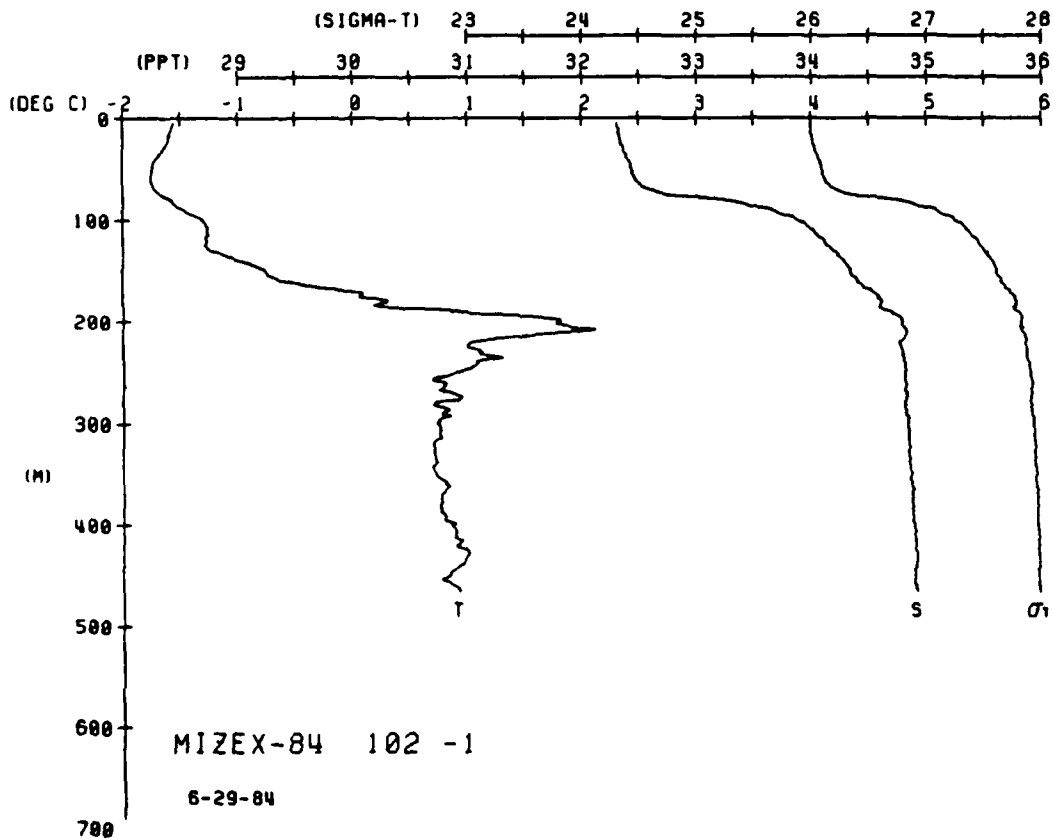
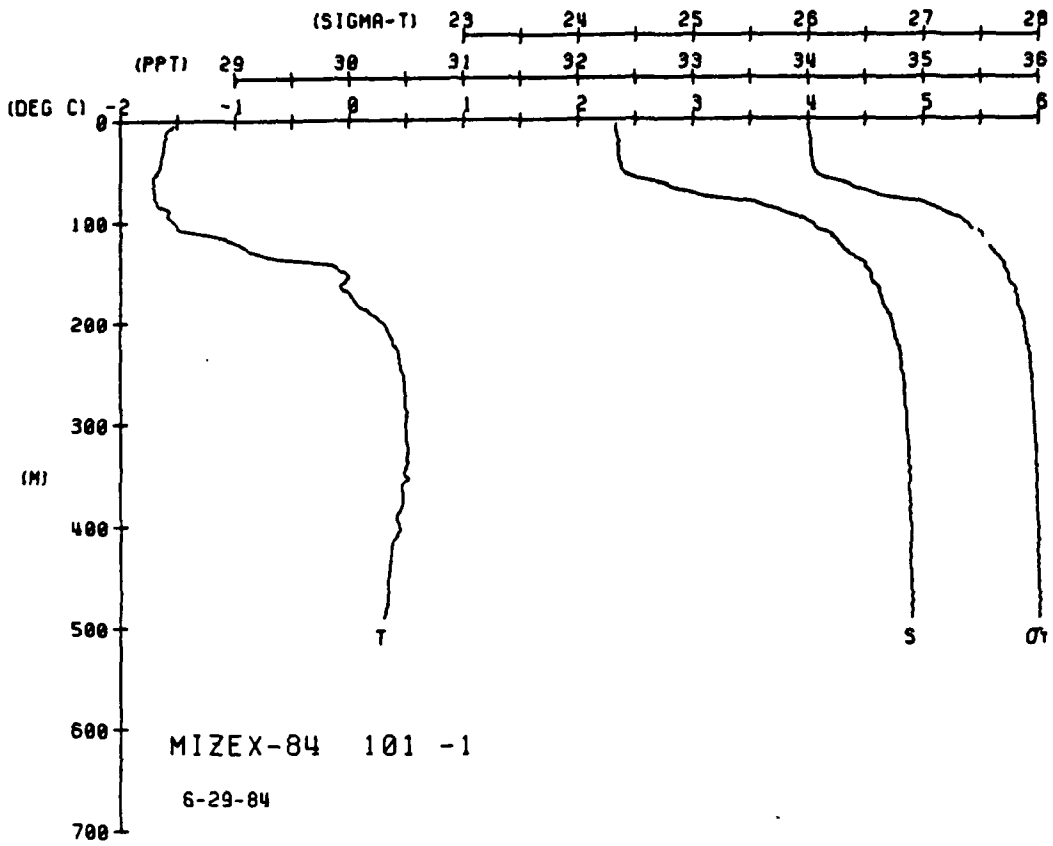


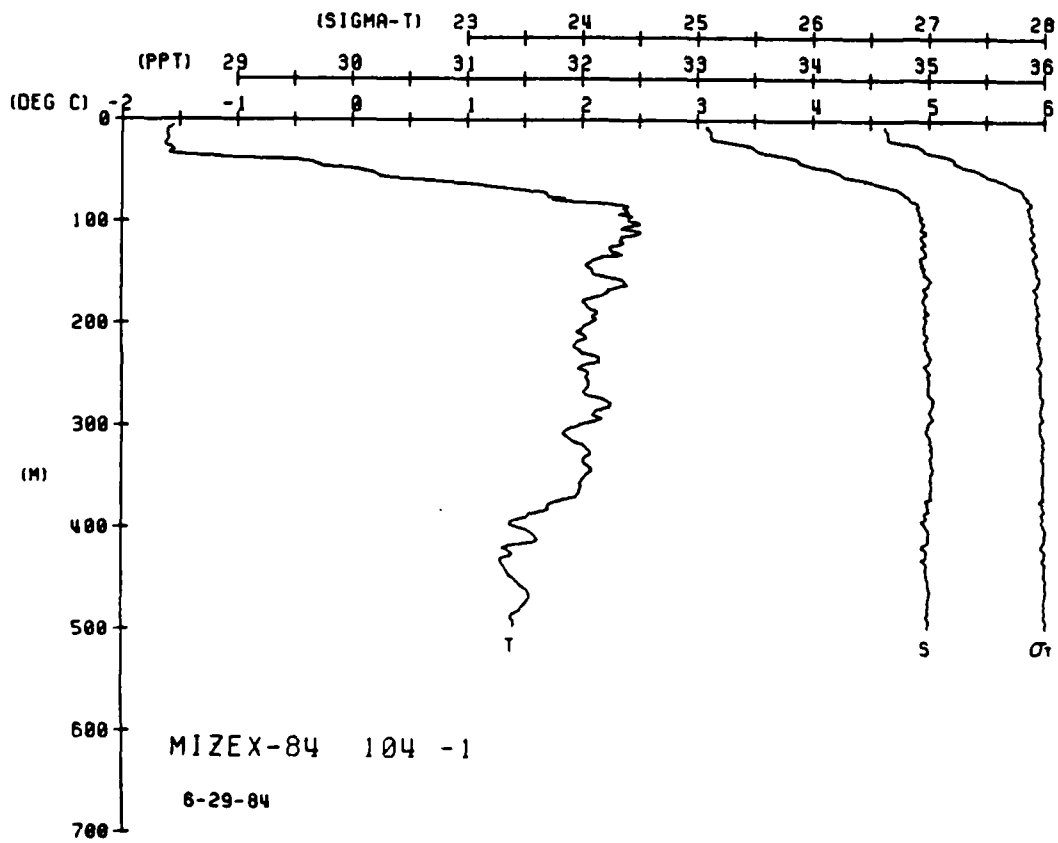
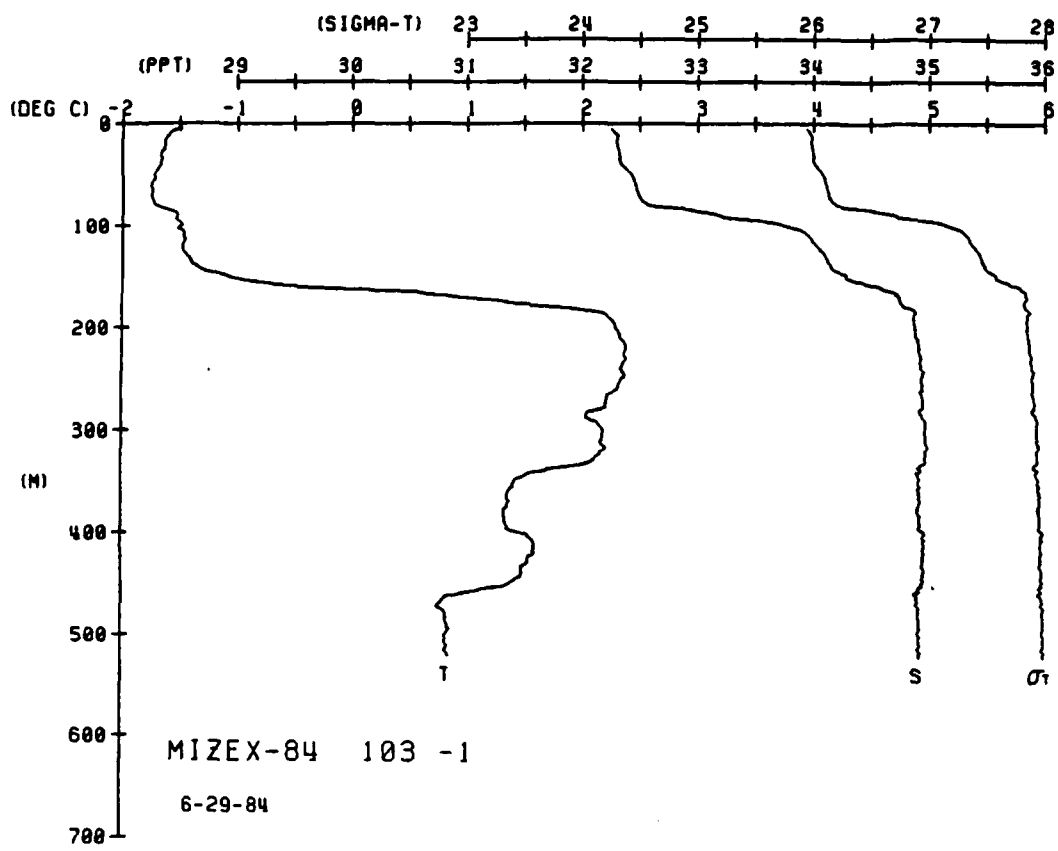


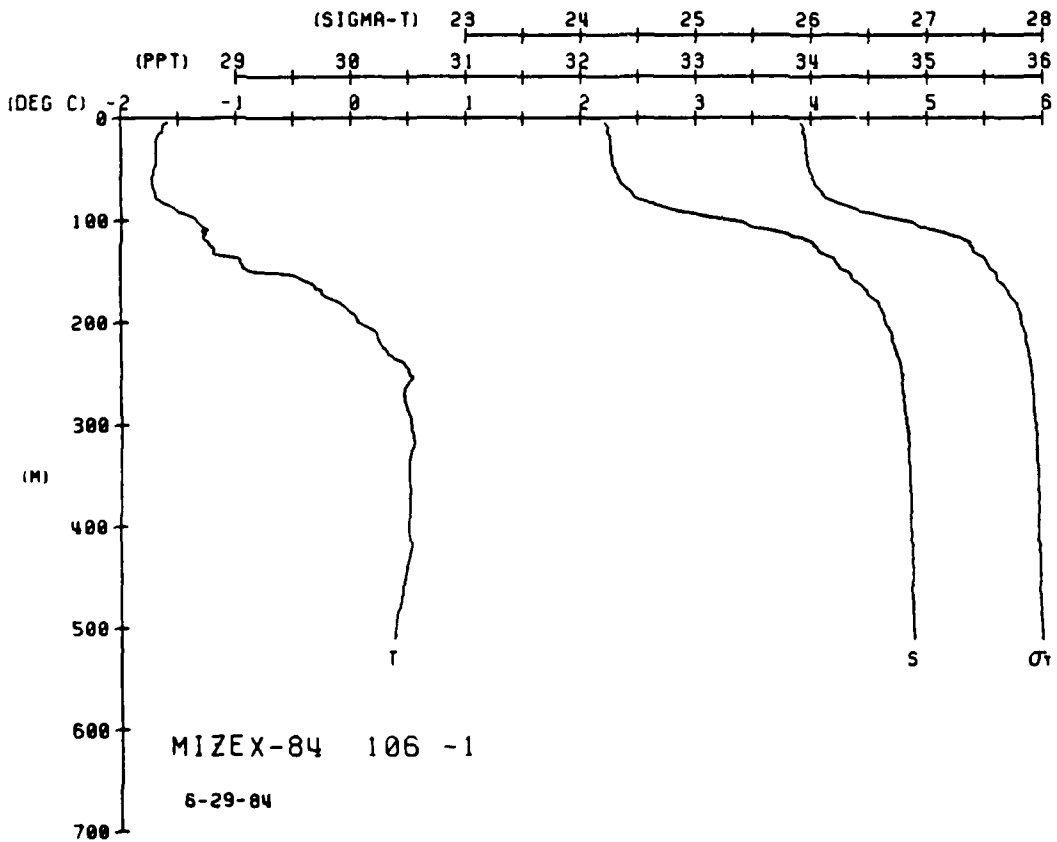
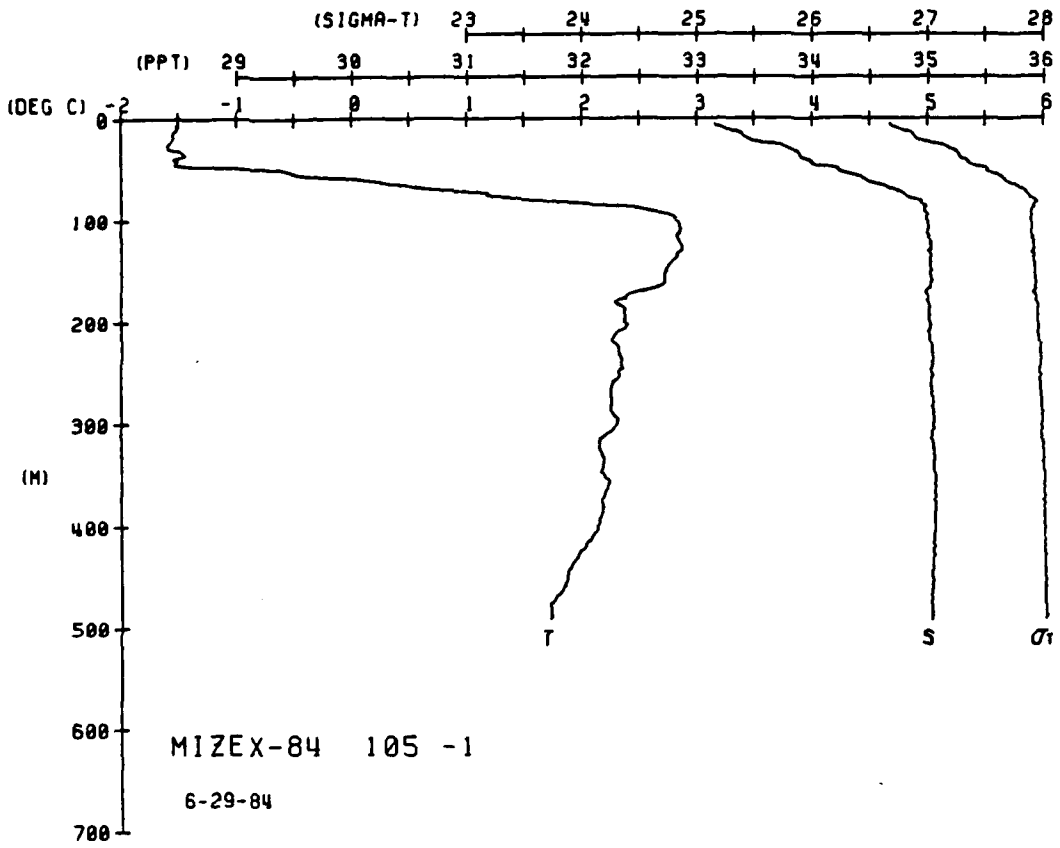


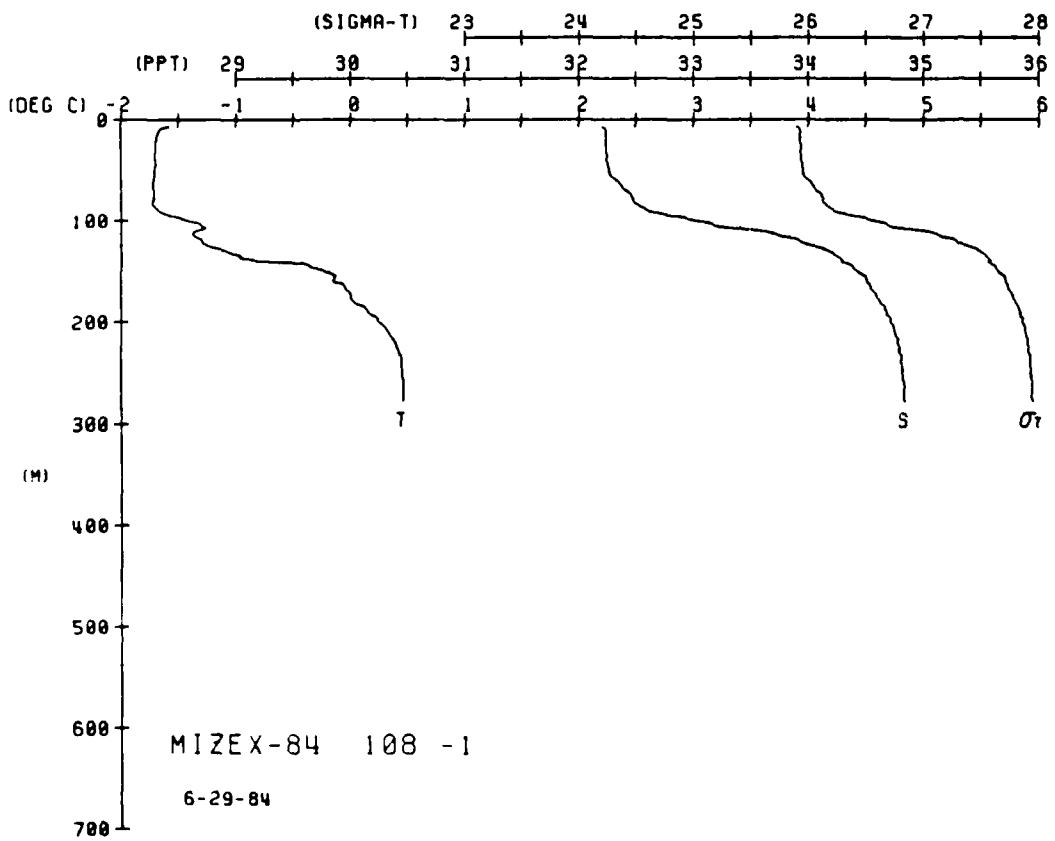
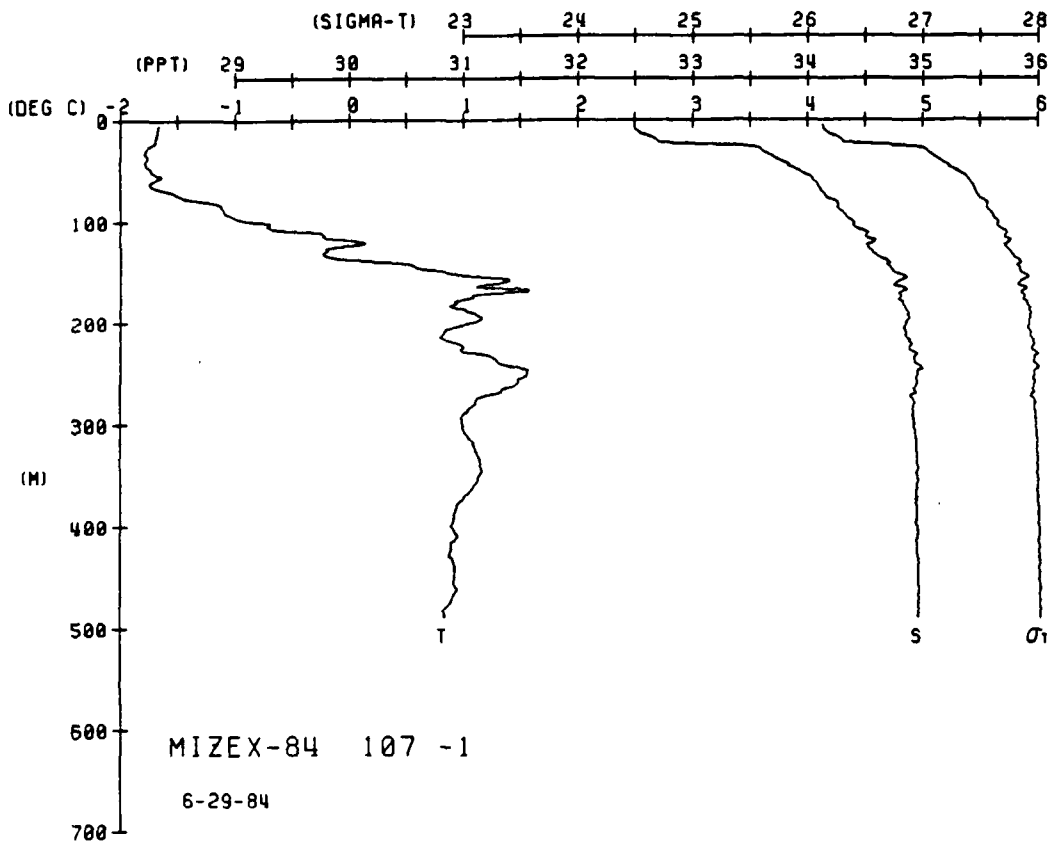


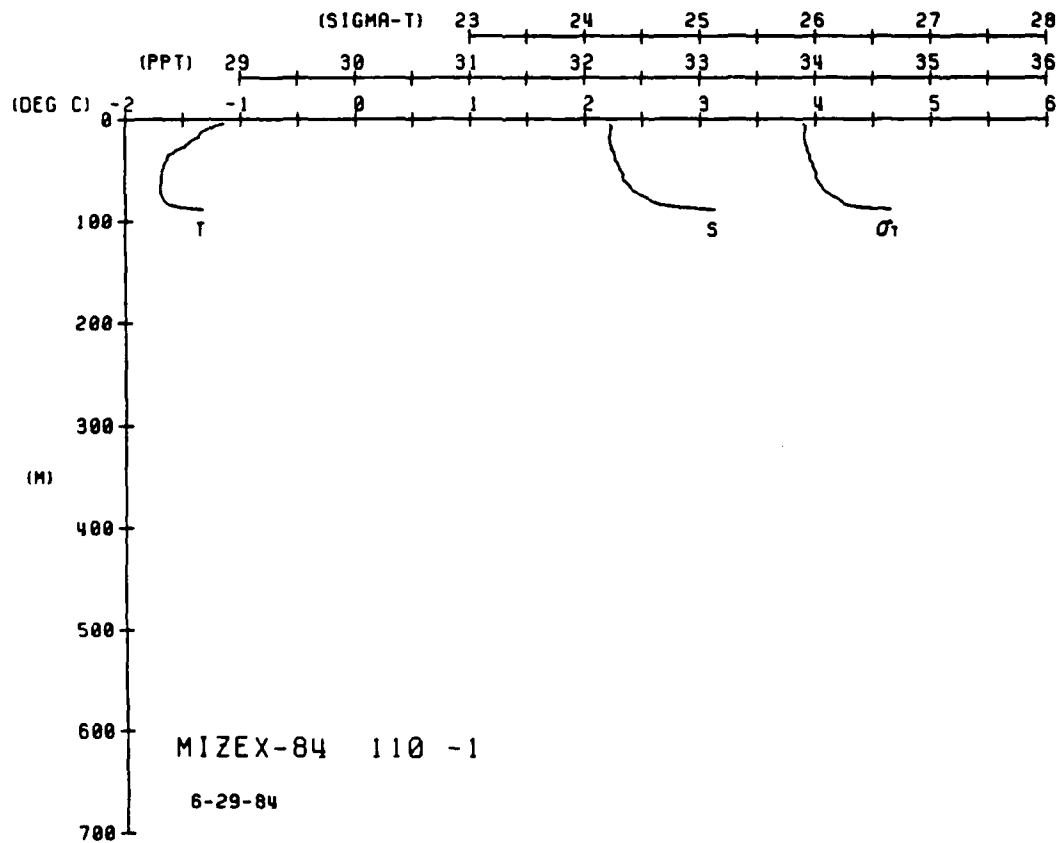
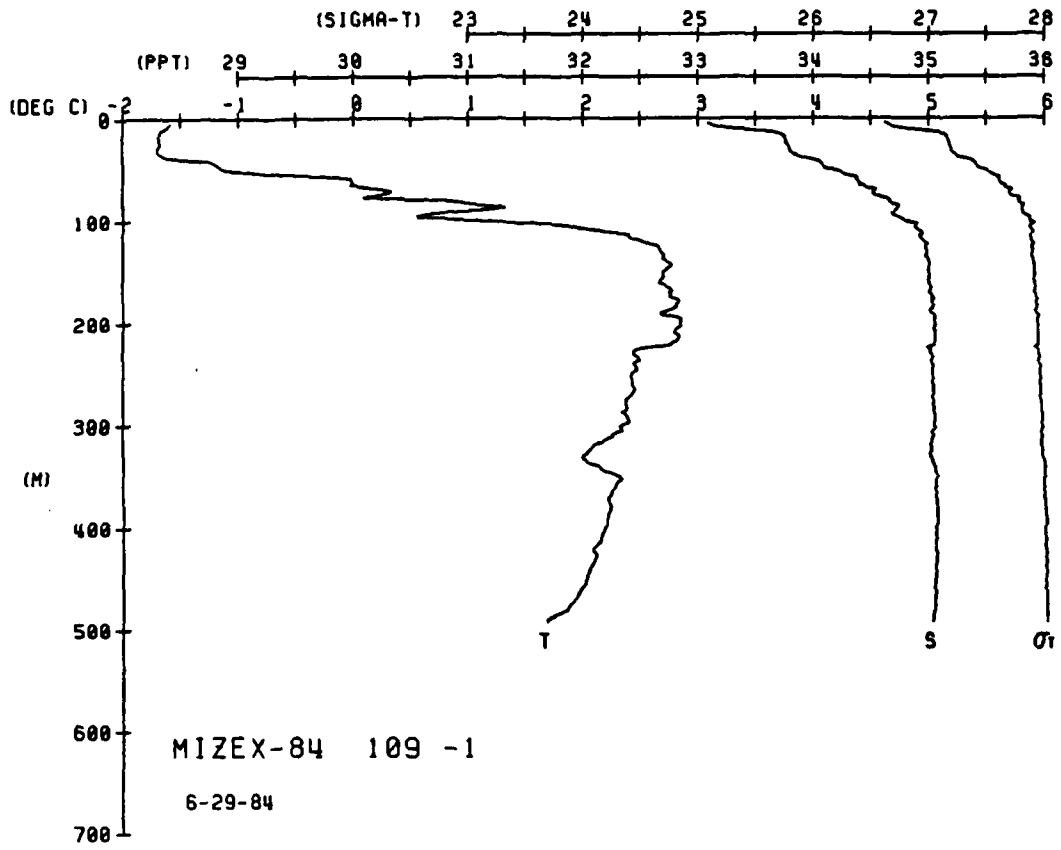


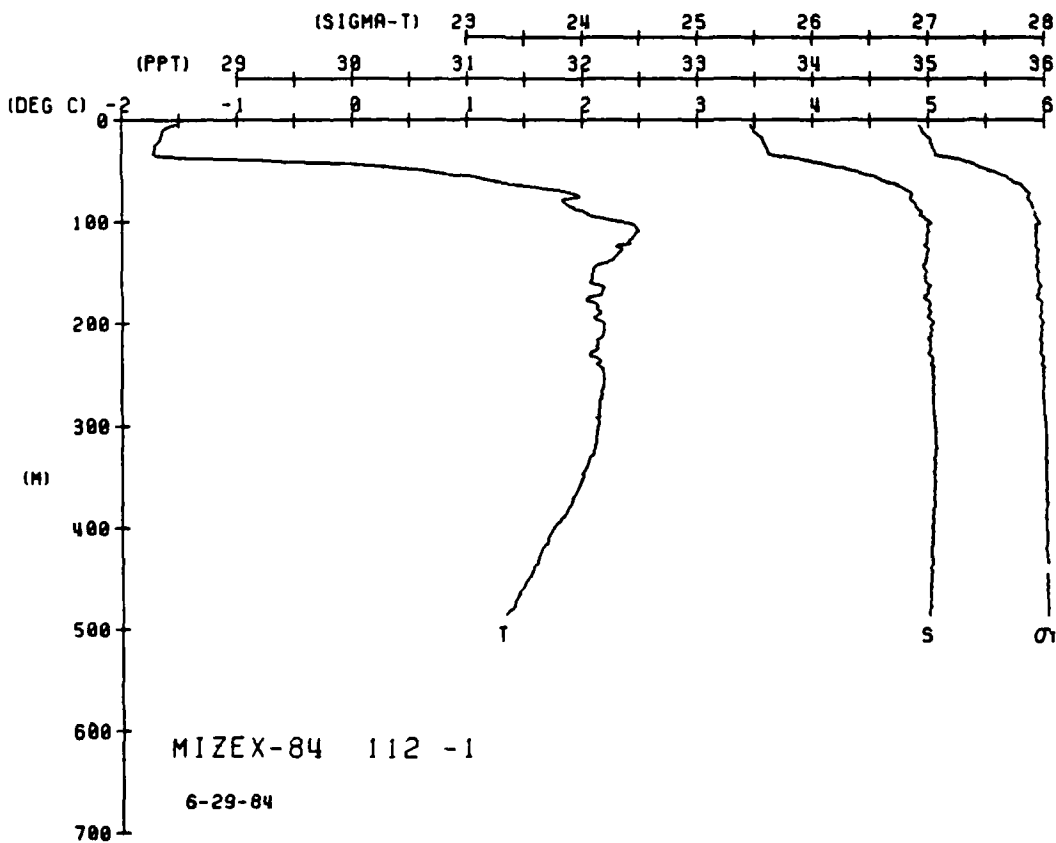
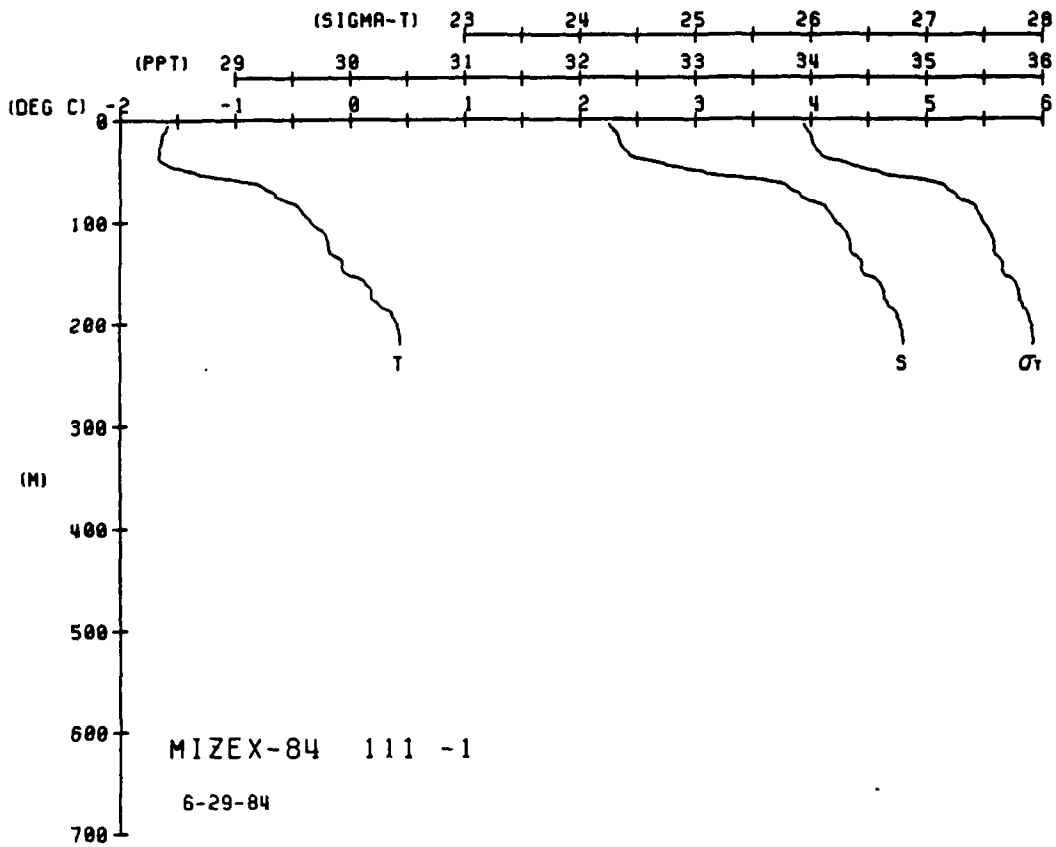










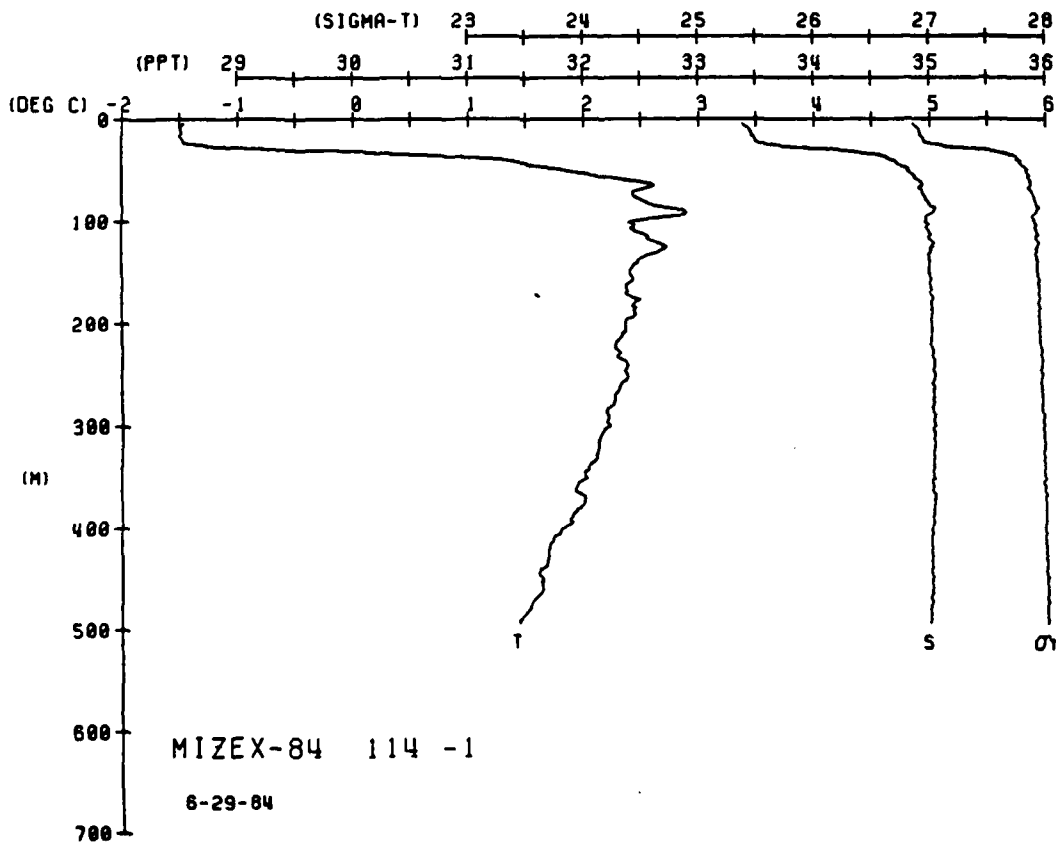
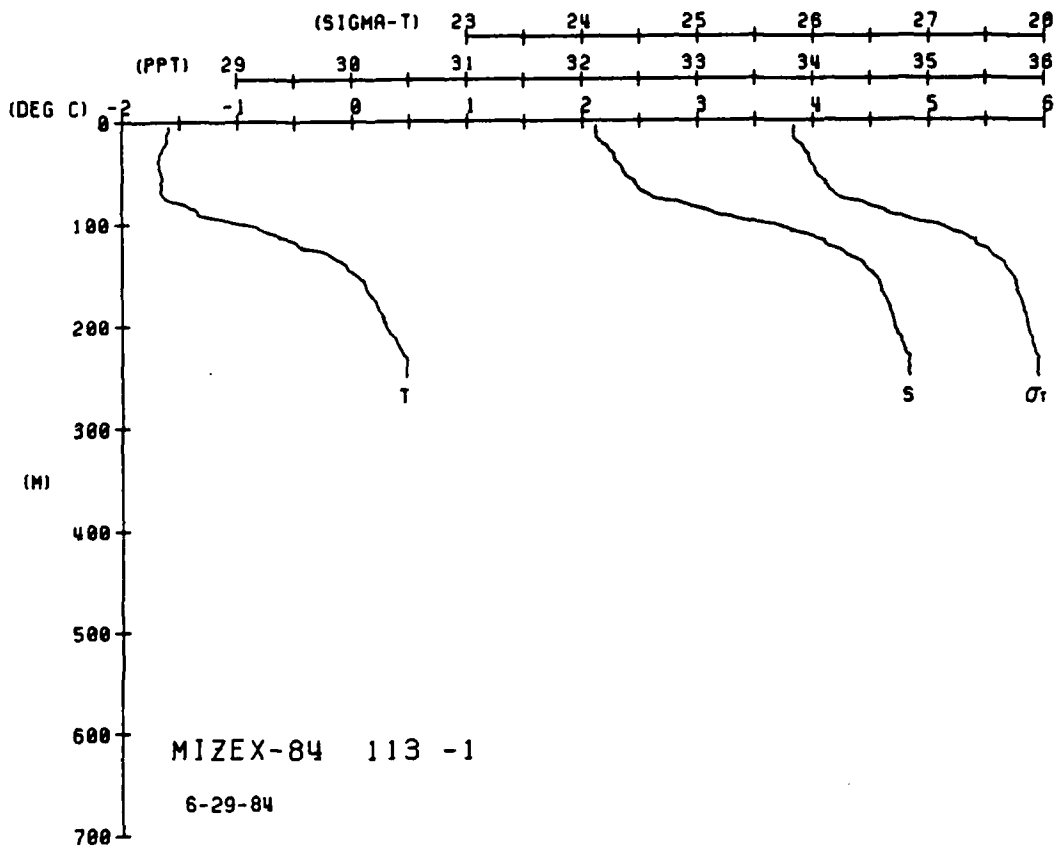


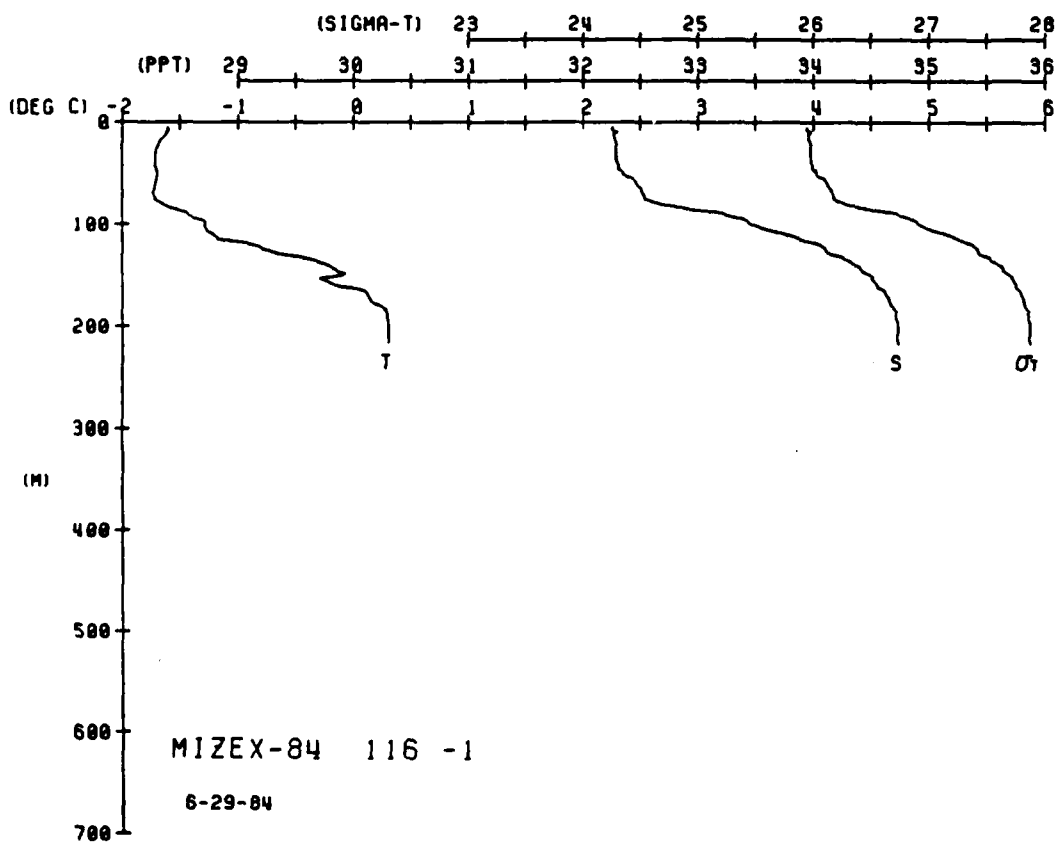
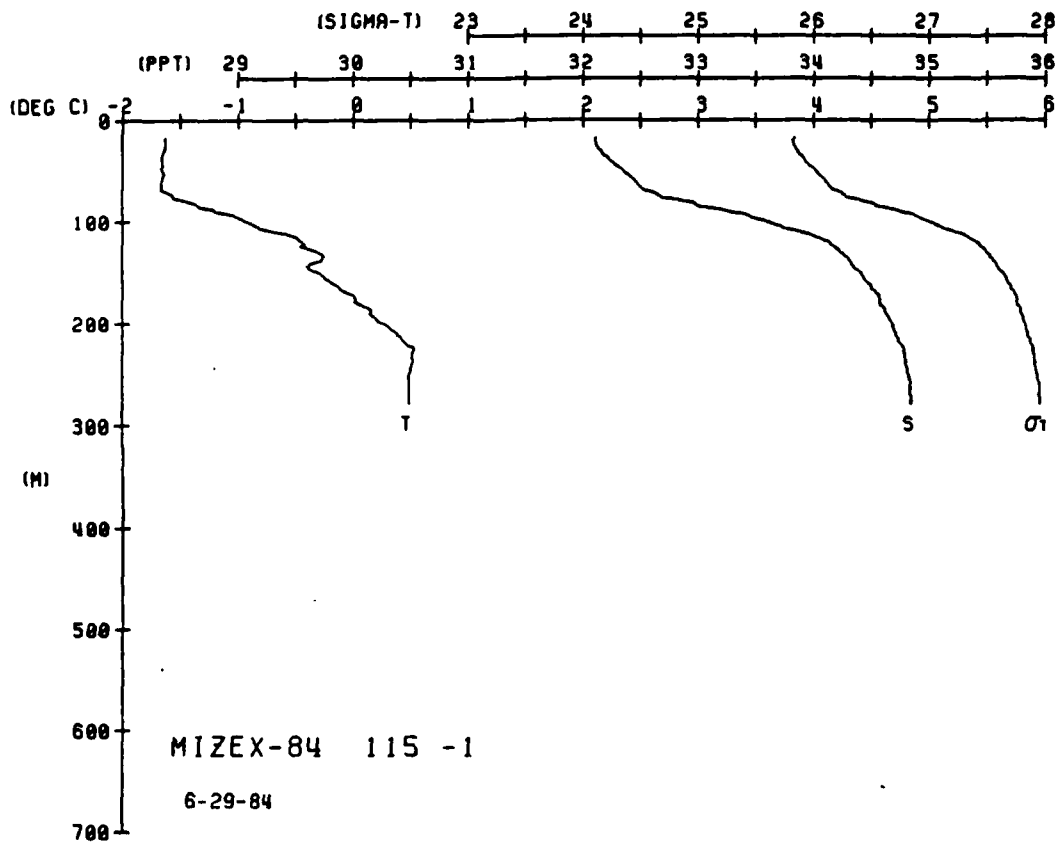
MIZEX-84 STATION 113(1) CTD 29/JUN/1984 1622 GMT CODE = 1
LAT = 80.4138 LMG = 7.9917 LTER = 300.0 LGER = 300.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
00	99.90	11.55	33.22	22.22	7.7	009	937.9
05	99.90	11.55	33.22	22.22	7.7	009	937.9
10	99.90	11.55	33.22	22.22	7.7	009	937.9
15	99.90	11.55	33.22	22.22	7.7	009	937.9
20	99.90	11.55	33.22	22.22	7.7	009	937.9
25	99.90	11.55	33.22	22.22	7.7	009	937.9
30	99.90	11.55	33.22	22.22	7.7	009	937.9
35	99.90	11.55	33.22	22.22	7.7	009	937.9
40	99.90	11.55	33.22	22.22	7.7	009	937.9
45	99.90	11.55	33.22	22.22	7.7	009	937.9
50	99.90	11.55	33.22	22.22	7.7	009	937.9
55	99.90	11.55	33.22	22.22	7.7	009	937.9
60	99.90	11.55	33.22	22.22	7.7	009	937.9
65	99.90	11.55	33.22	22.22	7.7	009	937.9
70	99.90	11.55	33.22	22.22	7.7	009	937.9
75	99.90	11.55	33.22	22.22	7.7	009	937.9
80	99.90	11.55	33.22	22.22	7.7	009	937.9
85	99.90	11.55	33.22	22.22	7.7	009	937.9
90	99.90	11.55	33.22	22.22	7.7	009	937.9
95	99.90	11.55	33.22	22.22	7.7	009	937.9
100	99.90	11.55	33.22	22.22	7.7	009	937.9

MIZEX-84 STATION 114(1) CTD 29/JUN/1984 1630 GMT CODE = 1
LAT = 80.6500 LMG = 1.5833 LTER = 150.0 LGER = 150.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
00	99.90	11.55	33.22	22.22	7.7	009	937.9
05	99.90	11.55	33.22	22.22	7.7	009	937.9
10	99.90	11.55	33.22	22.22	7.7	009	937.9
15	99.90	11.55	33.22	22.22	7.7	009	937.9
20	99.90	11.55	33.22	22.22	7.7	009	937.9
25	99.90	11.55	33.22	22.22	7.7	009	937.9
30	99.90	11.55	33.22	22.22	7.7	009	937.9
35	99.90	11.55	33.22	22.22	7.7	009	937.9
40	99.90	11.55	33.22	22.22	7.7	009	937.9
45	99.90	11.55	33.22	22.22	7.7	009	937.9
50	99.90	11.55	33.22	22.22	7.7	009	937.9
55	99.90	11.55	33.22	22.22	7.7	009	937.9
60	99.90	11.55	33.22	22.22	7.7	009	937.9
65	99.90	11.55	33.22	22.22	7.7	009	937.9
70	99.90	11.55	33.22	22.22	7.7	009	937.9
75	99.90	11.55	33.22	22.22	7.7	009	937.9
80	99.90	11.55	33.22	22.22	7.7	009	937.9
85	99.90	11.55	33.22	22.22	7.7	009	937.9
90	99.90	11.55	33.22	22.22	7.7	009	937.9
95	99.90	11.55	33.22	22.22	7.7	009	937.9
100	99.90	11.55	33.22	22.22	7.7	009	937.9



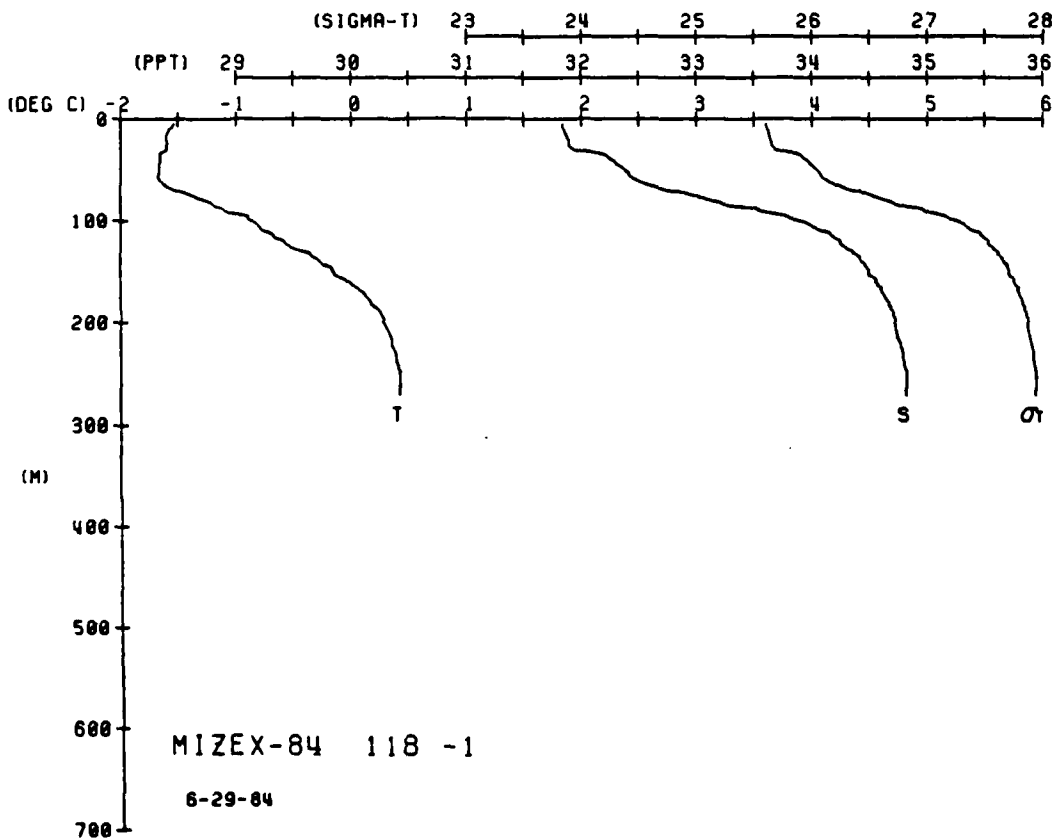
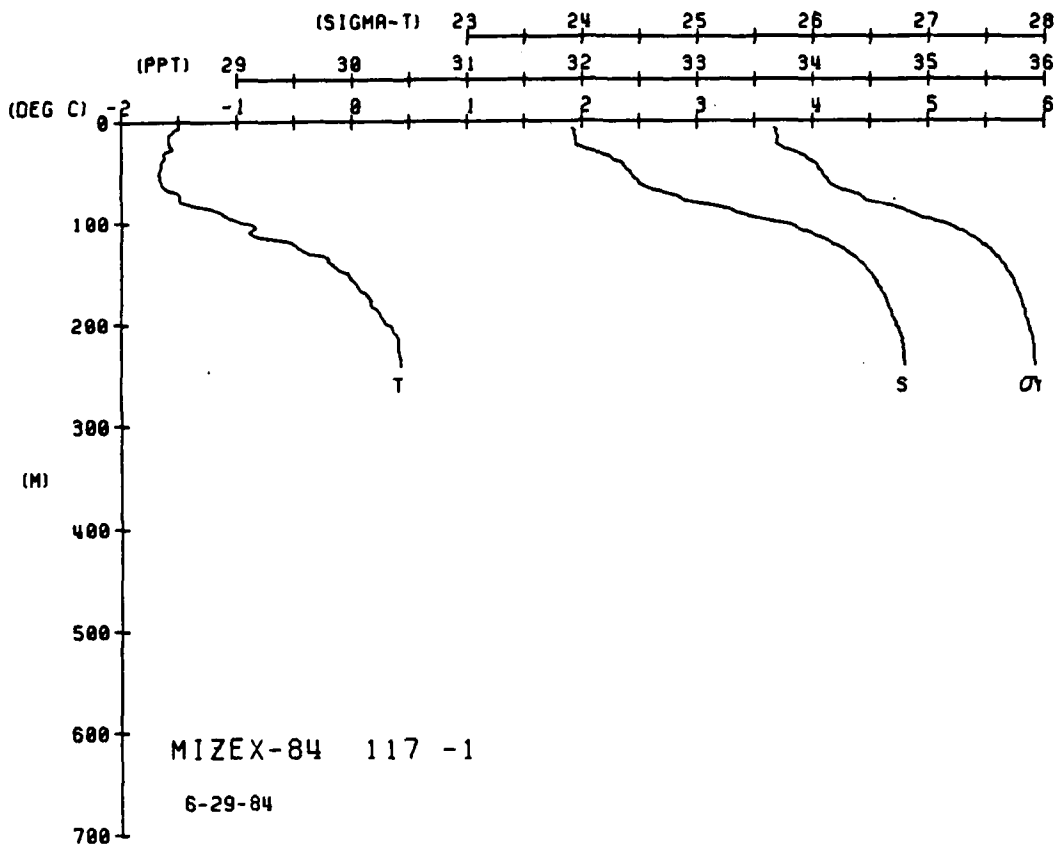


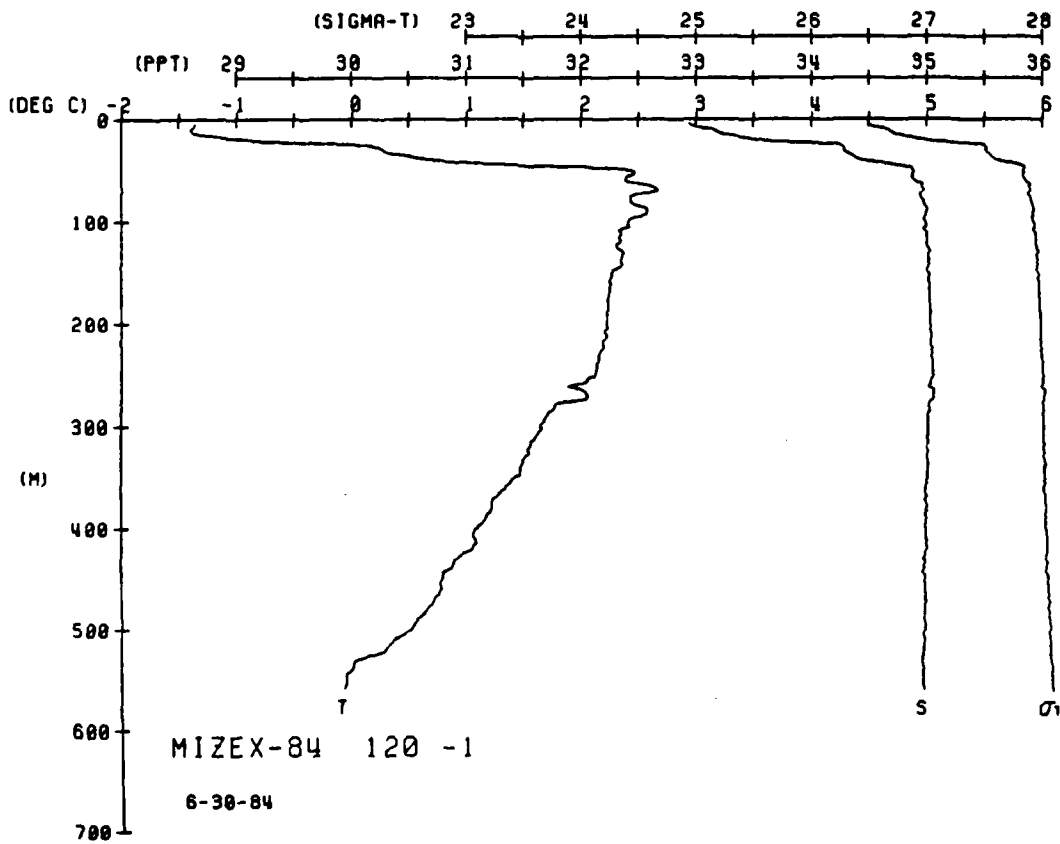
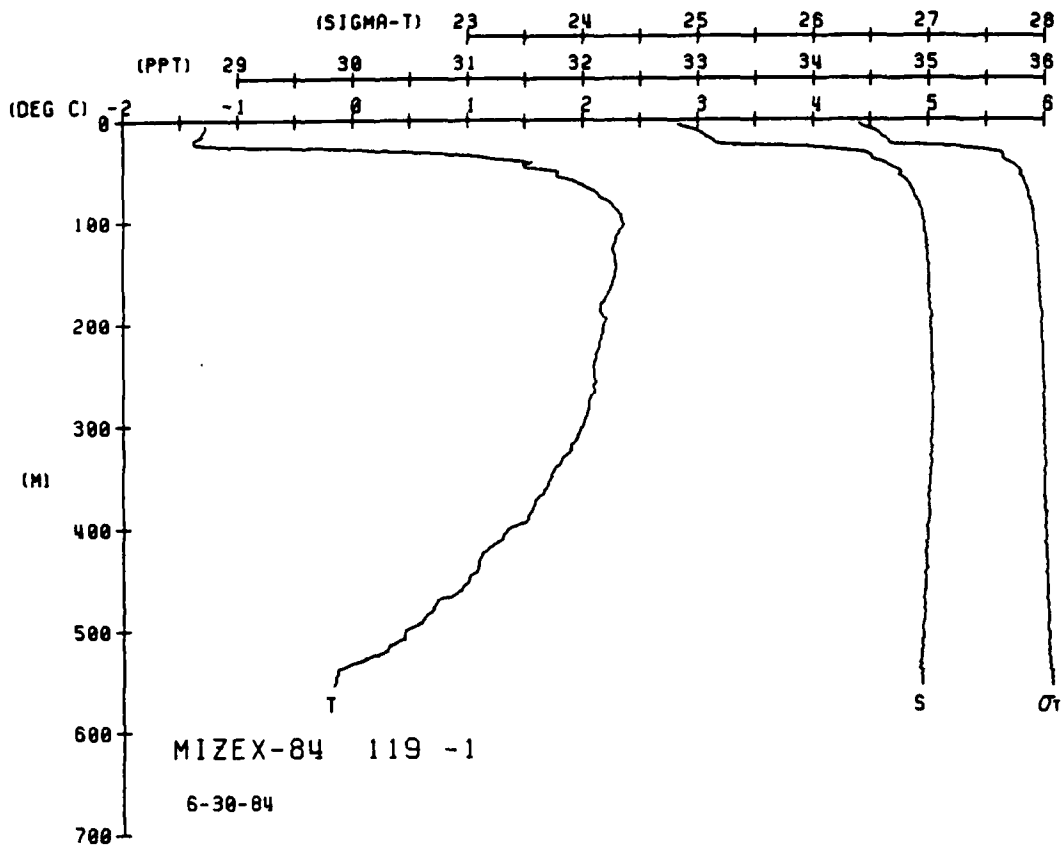
MIXE-84 STATION 117(1) CTD 29/JUN/1984 1804 GMT CODE = 1
LAT = 80.408N LMG = 30.0 LGER = 300.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0

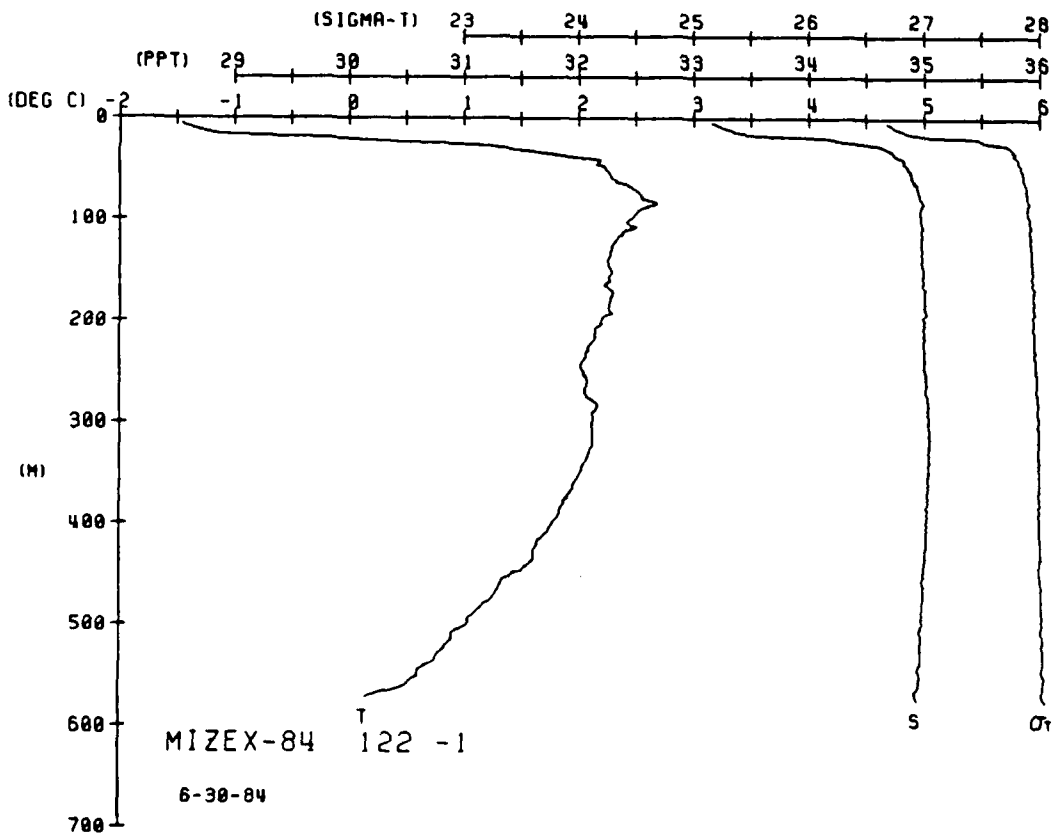
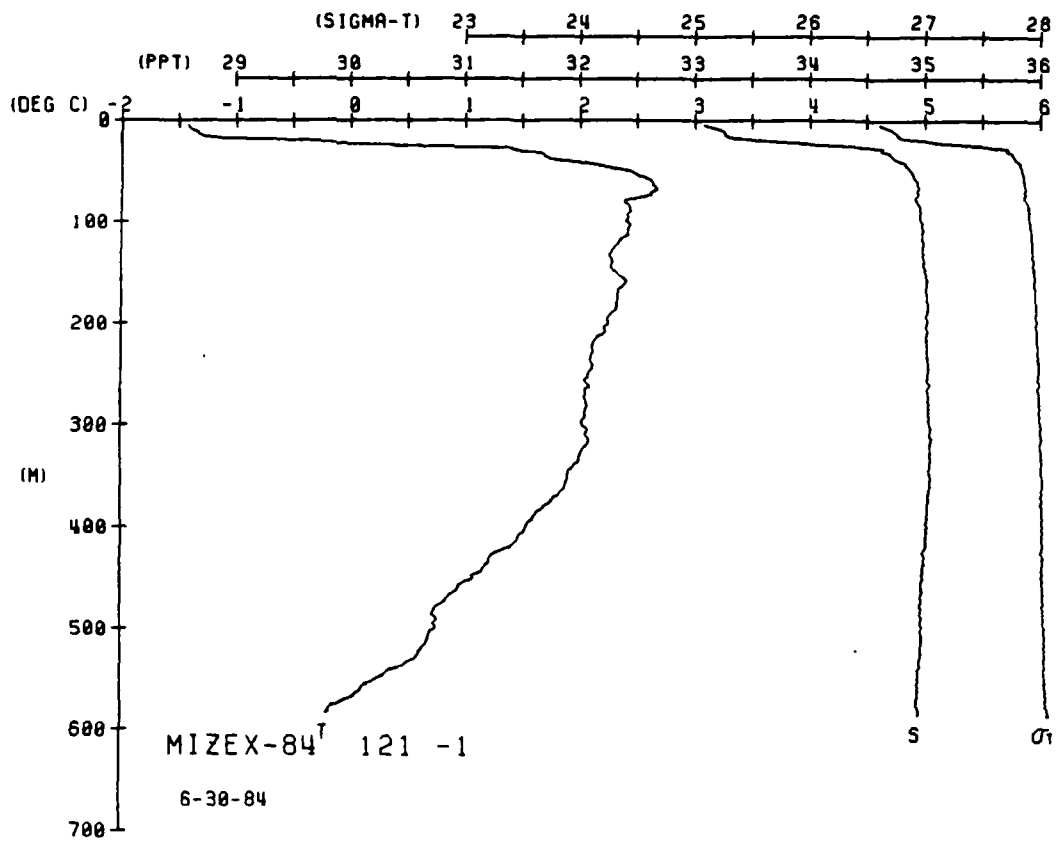
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DIRHT	SOUND
0	52.57	52.57	33.11	67.67	0.00	0.00	0.11
5	52.57	52.57	33.11	67.67	0.00	0.00	0.11
10	52.57	52.57	33.11	67.67	0.00	0.00	0.11
15	52.57	52.57	33.11	67.67	0.00	0.00	0.11
20	52.57	52.57	33.11	67.67	0.00	0.00	0.11
25	52.57	52.57	33.11	67.67	0.00	0.00	0.11
30	52.57	52.57	33.11	67.67	0.00	0.00	0.11
35	52.57	52.57	33.11	67.67	0.00	0.00	0.11
40	52.57	52.57	33.11	67.67	0.00	0.00	0.11
45	52.57	52.57	33.11	67.67	0.00	0.00	0.11
50	52.57	52.57	33.11	67.67	0.00	0.00	0.11
55	52.57	52.57	33.11	67.67	0.00	0.00	0.11
60	52.57	52.57	33.11	67.67	0.00	0.00	0.11
65	52.57	52.57	33.11	67.67	0.00	0.00	0.11
70	52.57	52.57	33.11	67.67	0.00	0.00	0.11
75	52.57	52.57	33.11	67.67	0.00	0.00	0.11
80	52.57	52.57	33.11	67.67	0.00	0.00	0.11
85	52.57	52.57	33.11	67.67	0.00	0.00	0.11
90	52.57	52.57	33.11	67.67	0.00	0.00	0.11
95	52.57	52.57	33.11	67.67	0.00	0.00	0.11
100	52.57	52.57	33.11	67.67	0.00	0.00	0.11

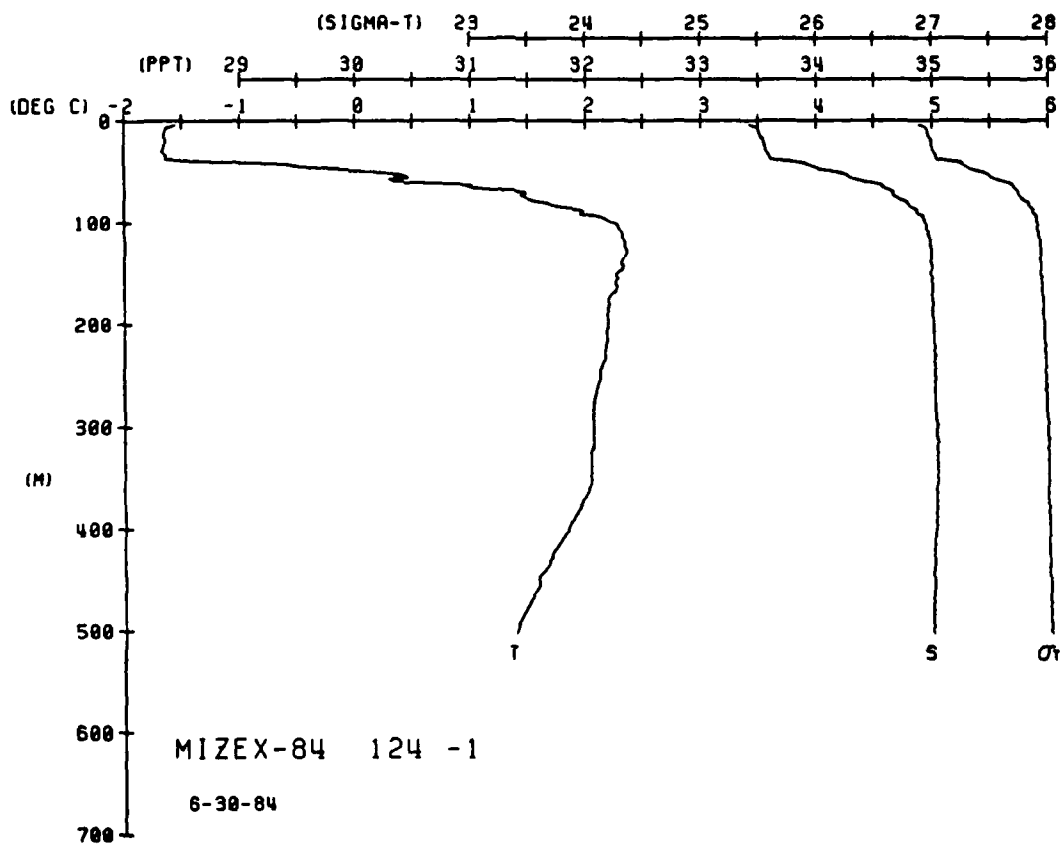
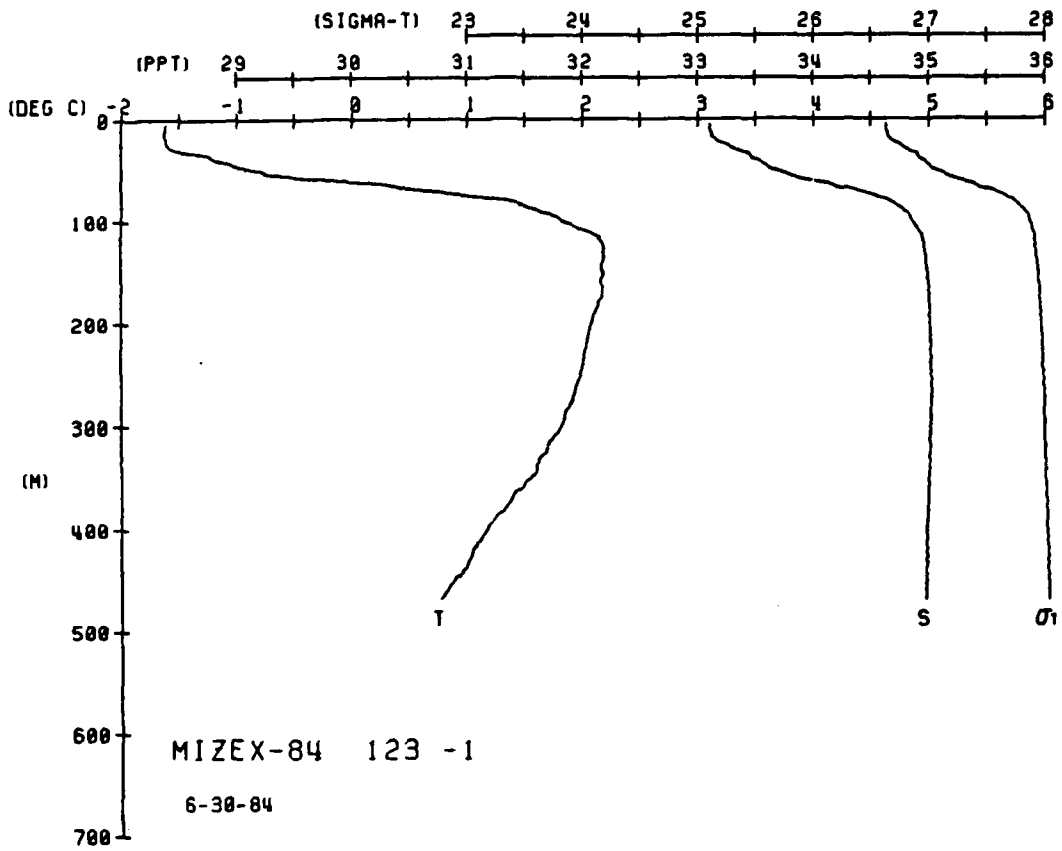
MIXE-84 STATION 119(1) CTD 29/JUN/1984 1934 GMT CODE = 1
LAT = 80.241N LMG = 30.0 LGER = 300.0
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0

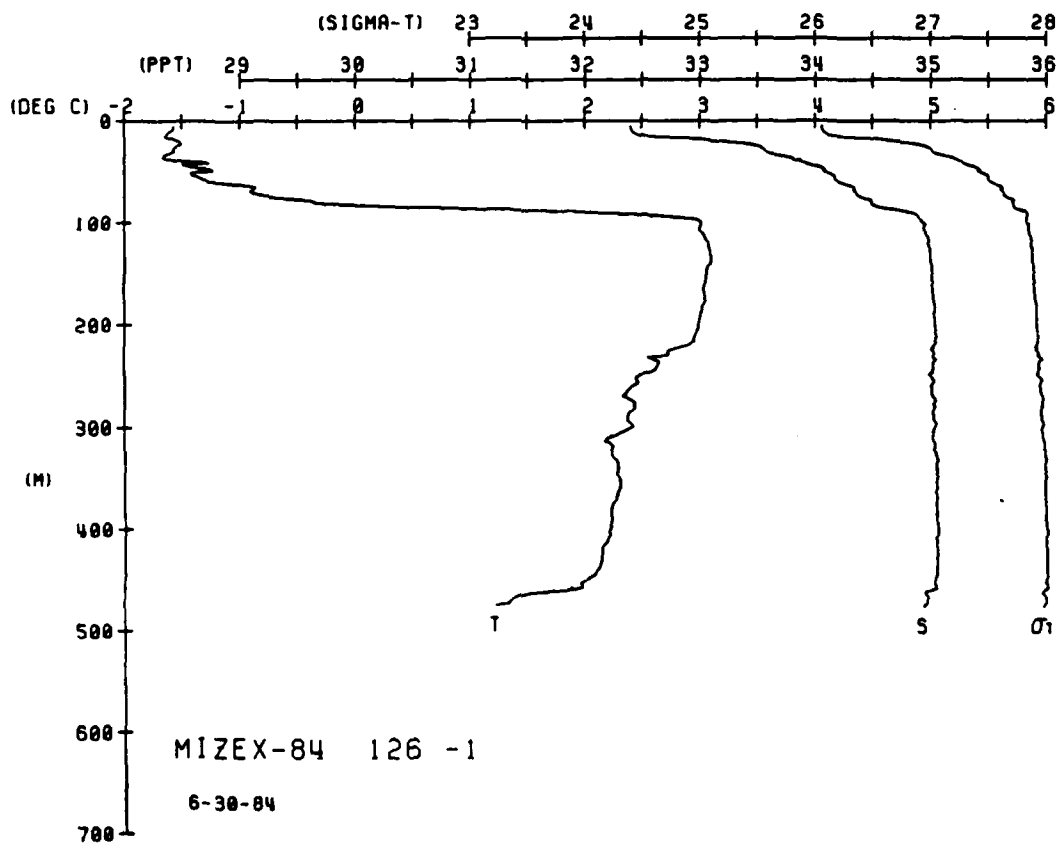
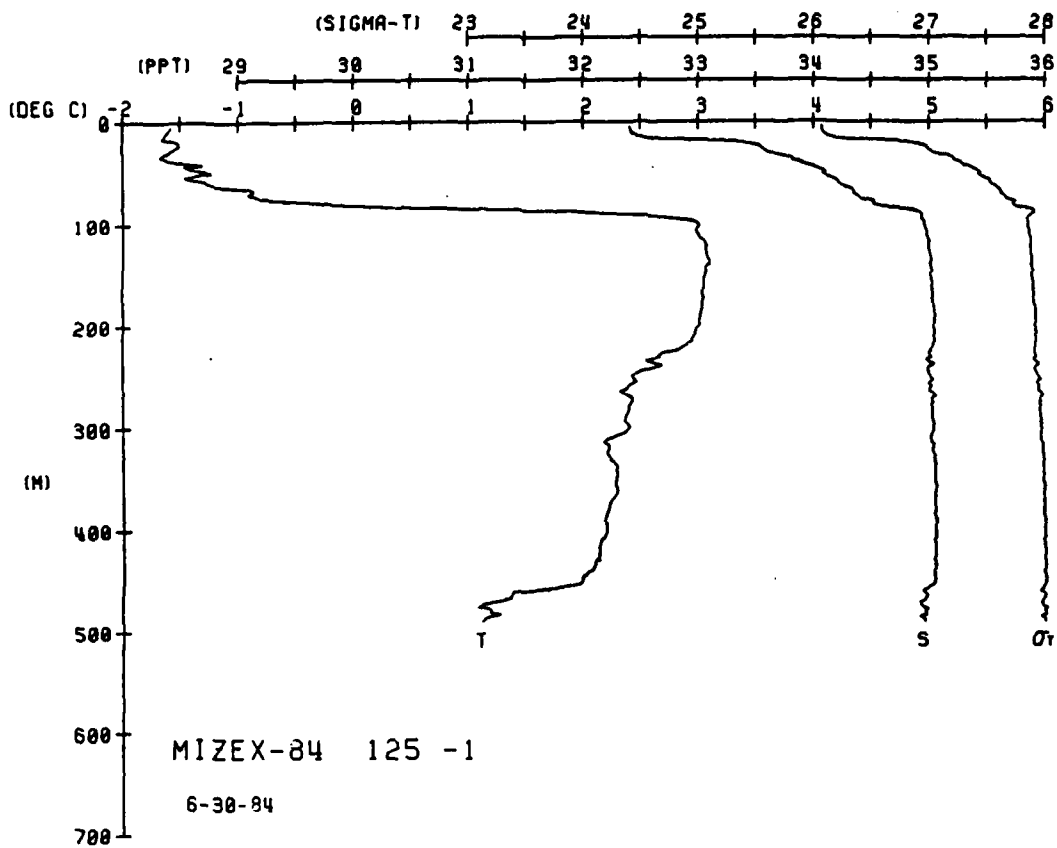
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DIRHT	SOUND
0	52.57	52.57	33.11	67.67	0.00	0.00	0.11
5	52.57	52.57	33.11	67.67	0.00	0.00	0.11
10	52.57	52.57	33.11	67.67	0.00	0.00	0.11
15	52.57	52.57	33.11	67.67	0.00	0.00	0.11
20	52.57	52.57	33.11	67.67	0.00	0.00	0.11
25	52.57	52.57	33.11	67.67	0.00	0.00	0.11
30	52.57	52.57	33.11	67.67	0.00	0.00	0.11
35	52.57	52.57	33.11	67.67	0.00	0.00	0.11
40	52.57	52.57	33.11	67.67	0.00	0.00	0.11
45	52.57	52.57	33.11	67.67	0.00	0.00	0.11
50	52.57	52.57	33.11	67.67	0.00	0.00	0.11
55	52.57	52.57	33.11	67.67	0.00	0.00	0.11
60	52.57	52.57	33.11	67.67	0.00	0.00	0.11
65	52.57	52.57	33.11	67.67	0.00	0.00	0.11
70	52.57	52.57	33.11	67.67	0.00	0.00	0.11
75	52.57	52.57	33.11	67.67	0.00	0.00	0.11
80	52.57	52.57	33.11	67.67	0.00	0.00	0.11
85	52.57	52.57	33.11	67.67	0.00	0.00	0.11
90	52.57	52.57	33.11	67.67	0.00	0.00	0.11
95	52.57	52.57	33.11	67.67	0.00	0.00	0.11
100	52.57	52.57	33.11	67.67	0.00	0.00	0.11

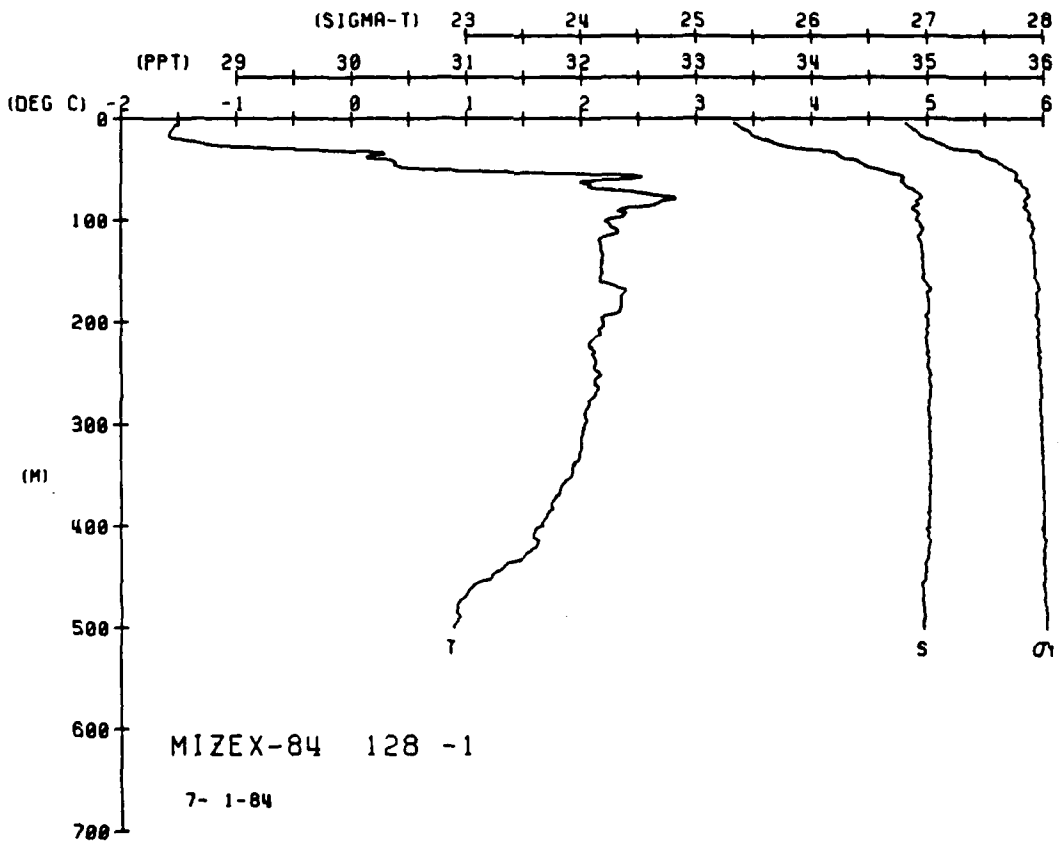
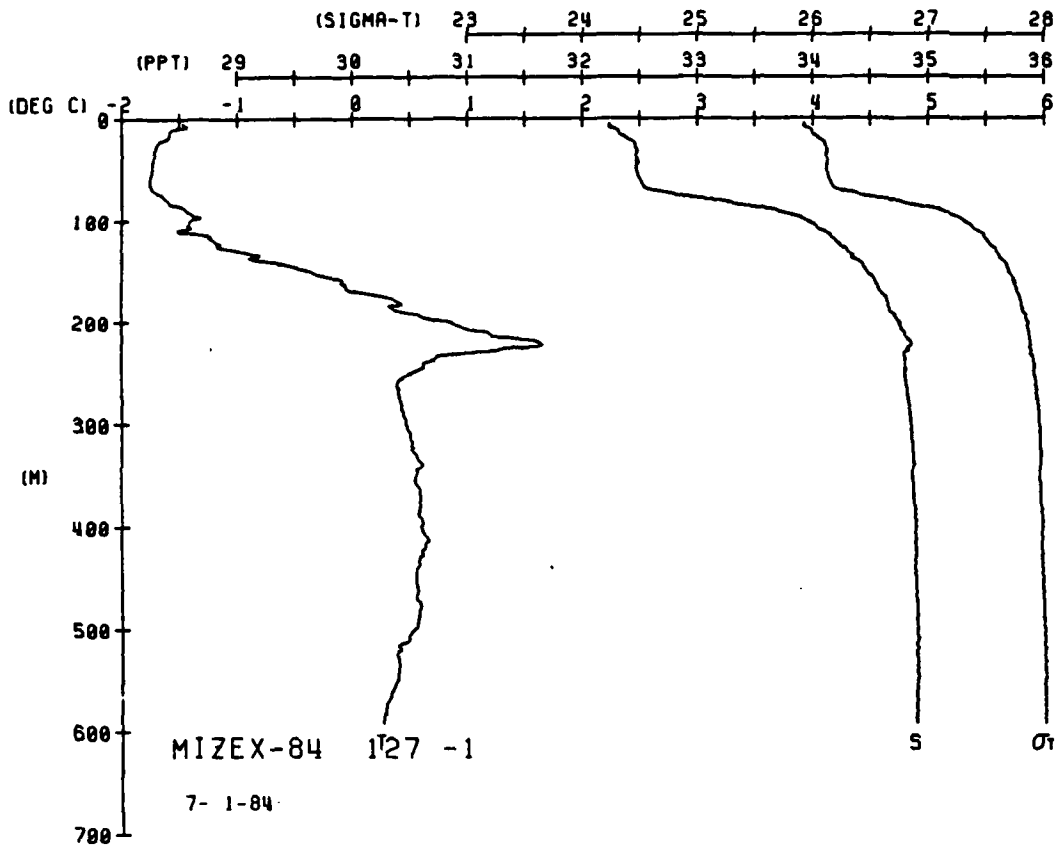


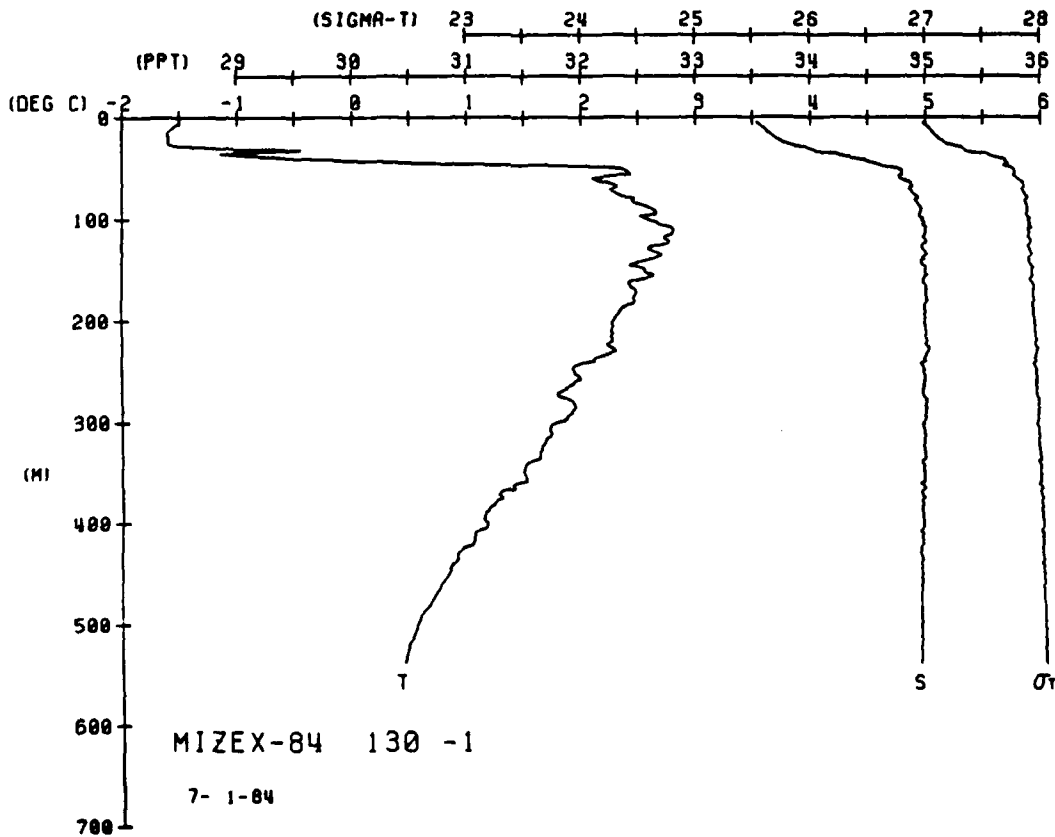
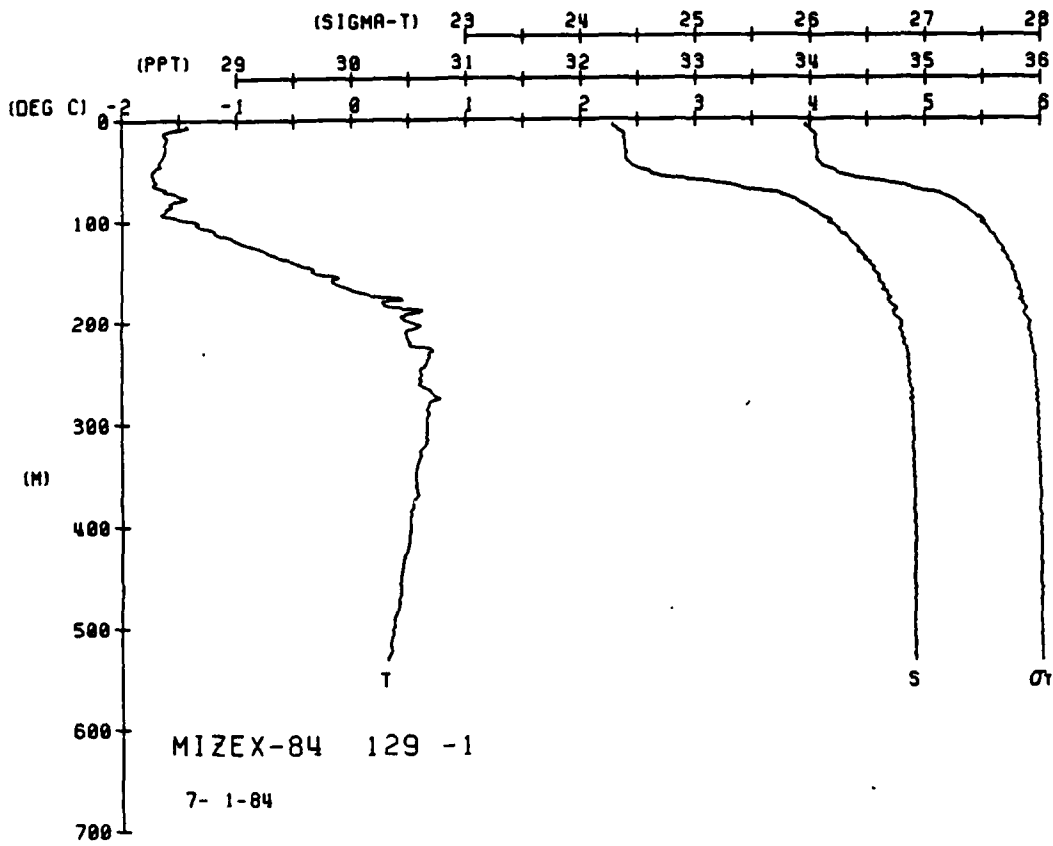


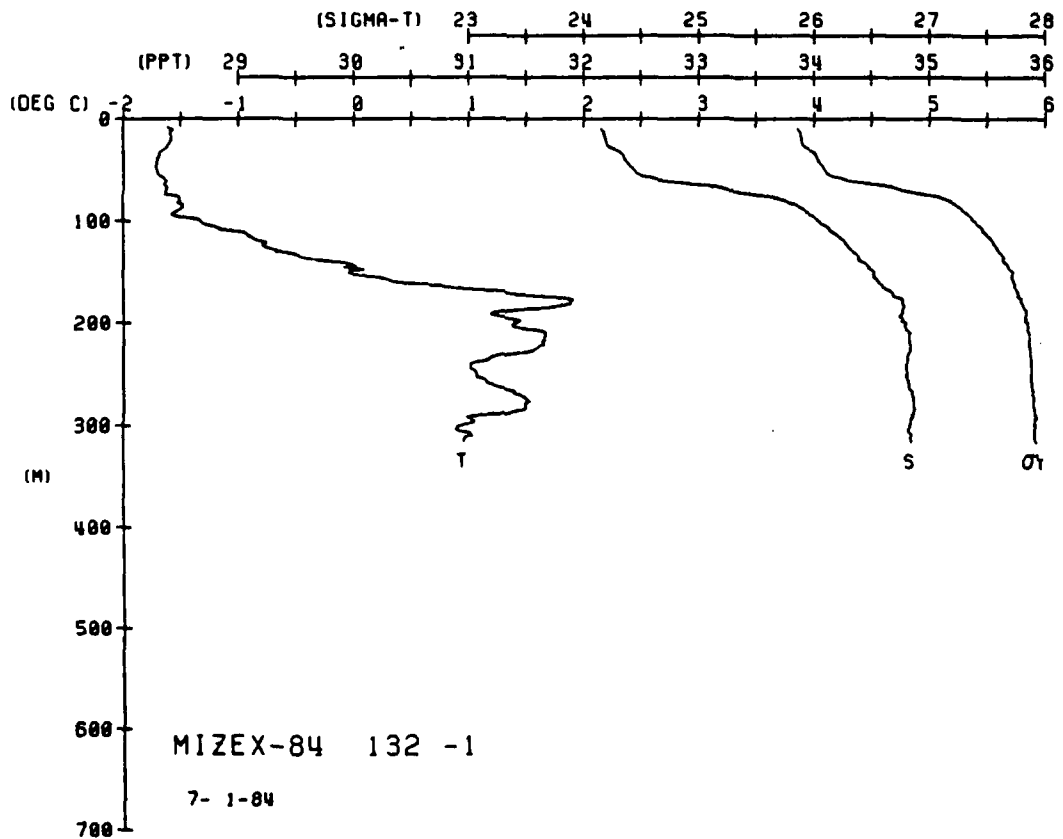
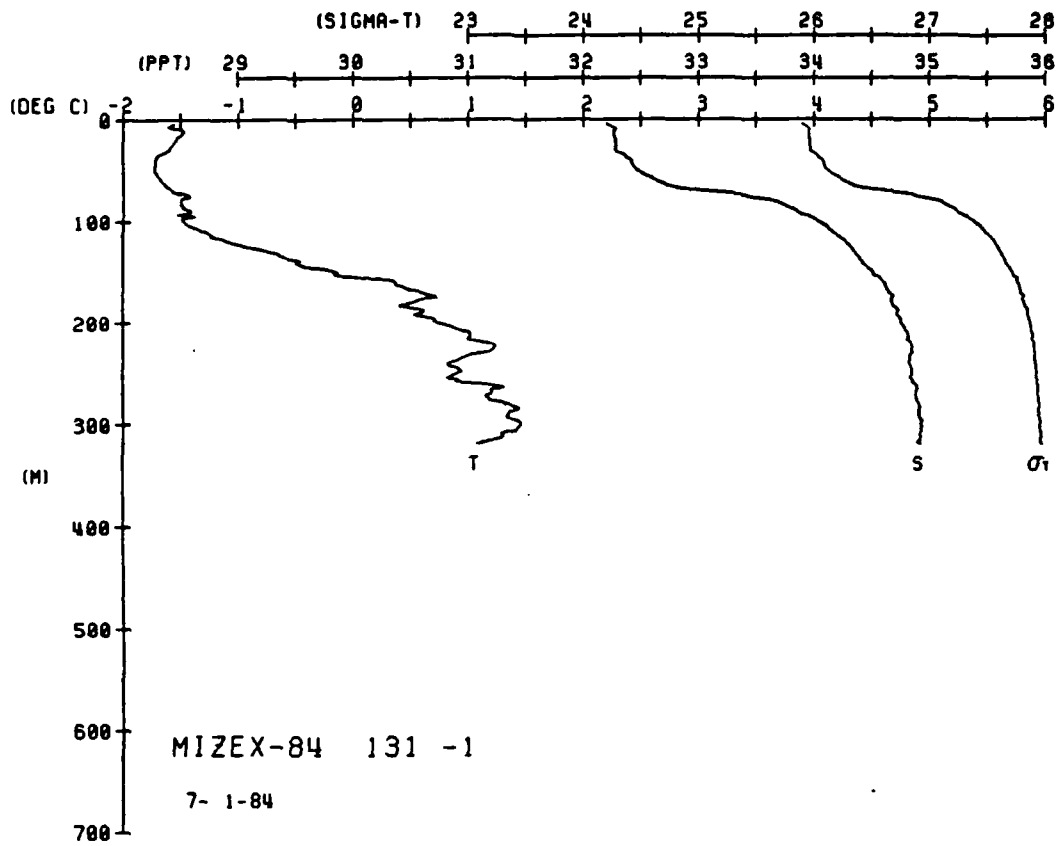










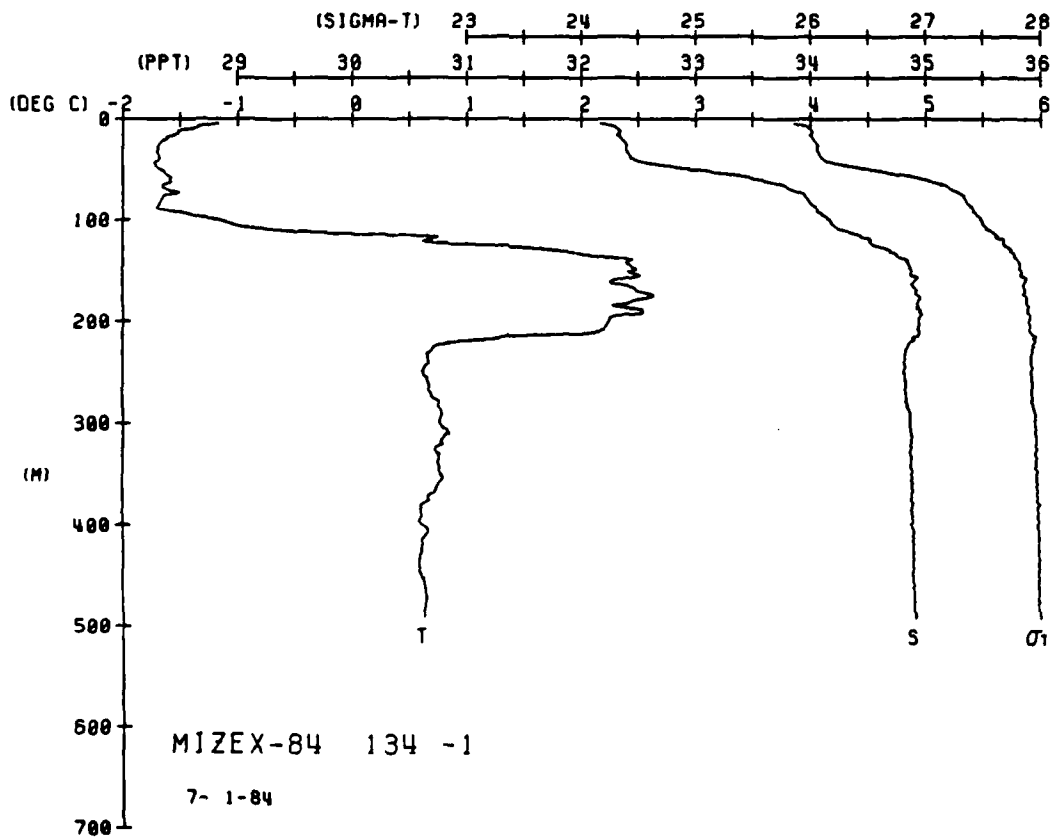
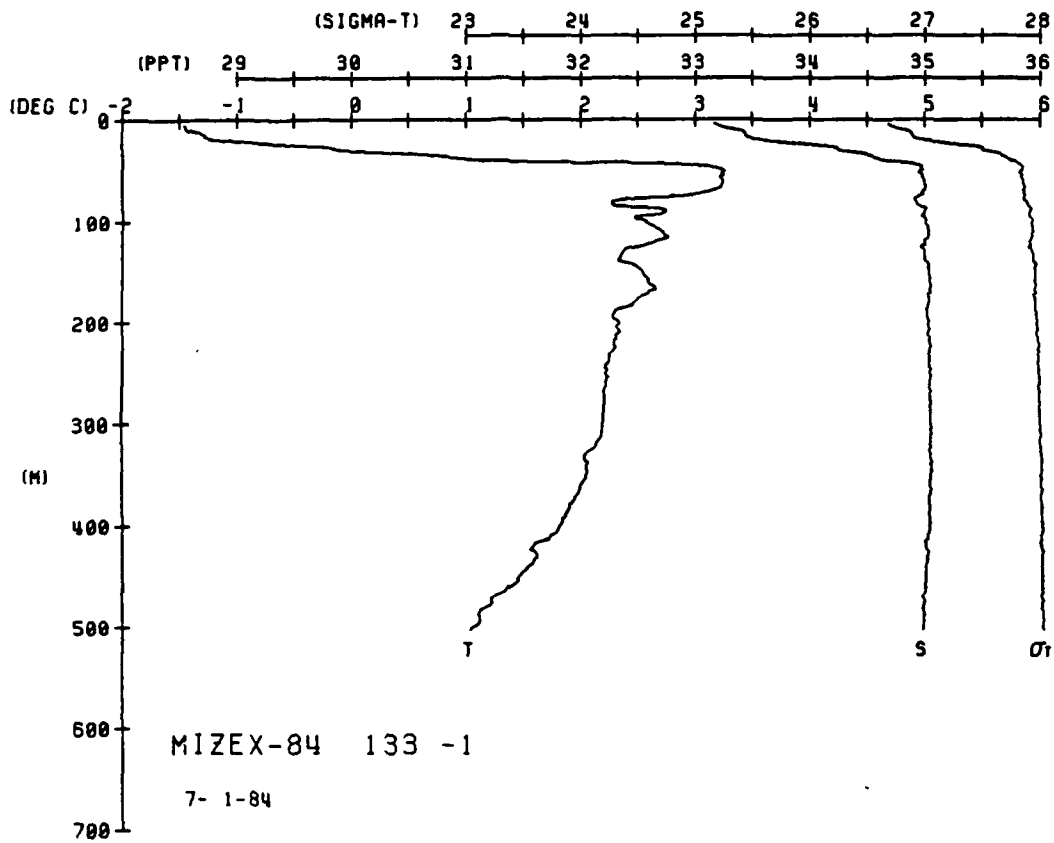


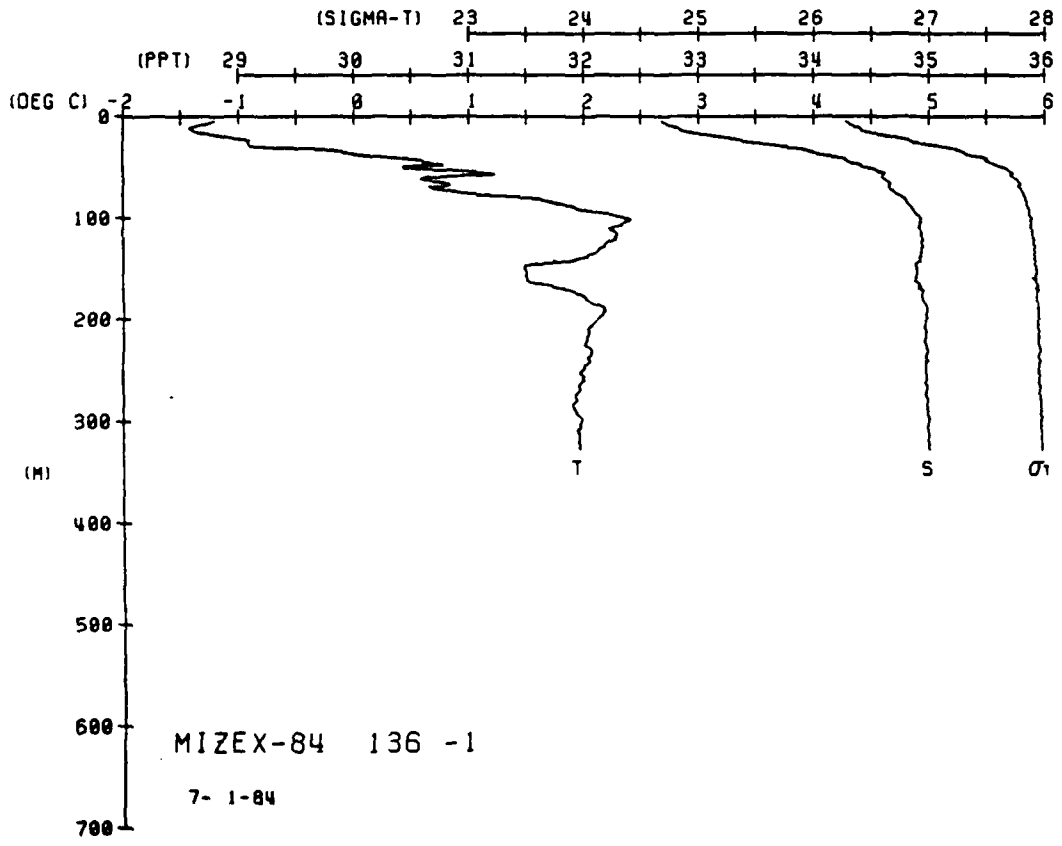
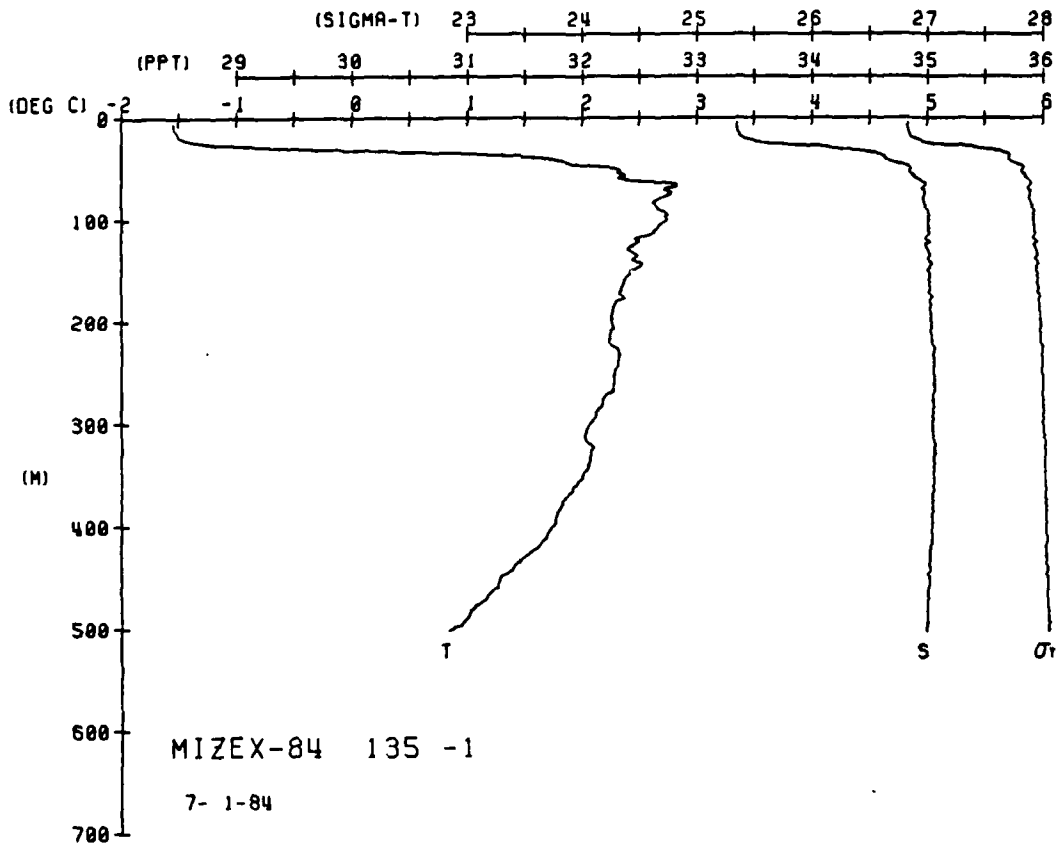
WIZEX-84 STATION 133(1) CTD 1/JUL/1984 1115 GMT CODE = 1
LAI = 80.7000N LMG = 6.3333E LIGN = 150. LGER = 150.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
00	11.10	11.10	33.33	6.66	7.77	0.00	144.40
05	11.10	11.10	33.33	6.66	7.77	0.00	144.40
10	11.10	11.10	33.33	6.66	7.77	0.00	144.40
15	11.10	11.10	33.33	6.66	7.77	0.00	144.40
20	11.10	11.10	33.33	6.66	7.77	0.00	144.40
25	11.10	11.10	33.33	6.66	7.77	0.00	144.40
30	11.10	11.10	33.33	6.66	7.77	0.00	144.40
35	11.10	11.10	33.33	6.66	7.77	0.00	144.40
40	11.10	11.10	33.33	6.66	7.77	0.00	144.40
45	11.10	11.10	33.33	6.66	7.77	0.00	144.40
50	11.10	11.10	33.33	6.66	7.77	0.00	144.40
55	11.10	11.10	33.33	6.66	7.77	0.00	144.40
60	11.10	11.10	33.33	6.66	7.77	0.00	144.40
65	11.10	11.10	33.33	6.66	7.77	0.00	144.40
70	11.10	11.10	33.33	6.66	7.77	0.00	144.40
75	11.10	11.10	33.33	6.66	7.77	0.00	144.40
80	11.10	11.10	33.33	6.66	7.77	0.00	144.40
85	11.10	11.10	33.33	6.66	7.77	0.00	144.40
90	11.10	11.10	33.33	6.66	7.77	0.00	144.40
95	11.10	11.10	33.33	6.66	7.77	0.00	144.40
100	11.10	11.10	33.33	6.66	7.77	0.00	144.40

WIZEX-84 STATION 134(1) CTD 1/JUL/1984 1125 GMT CODE = 1
LAI = 79.0583N LMG = 4.0667E LIGN = 150. LGER = 150.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
00	10.67	10.67	32.07	7.77	9.99	0.00	142.10
05	10.67	10.67	32.07	7.77	9.99	0.00	142.10
10	10.67	10.67	32.07	7.77	9.99	0.00	142.10
15	10.67	10.67	32.07	7.77	9.99	0.00	142.10
20	10.67	10.67	32.07	7.77	9.99	0.00	142.10
25	10.67	10.67	32.07	7.77	9.99	0.00	142.10
30	10.67	10.67	32.07	7.77	9.99	0.00	142.10
35	10.67	10.67	32.07	7.77	9.99	0.00	142.10
40	10.67	10.67	32.07	7.77	9.99	0.00	142.10
45	10.67	10.67	32.07	7.77	9.99	0.00	142.10
50	10.67	10.67	32.07	7.77	9.99	0.00	142.10
55	10.67	10.67	32.07	7.77	9.99	0.00	142.10
60	10.67	10.67	32.07	7.77	9.99	0.00	142.10
65	10.67	10.67	32.07	7.77	9.99	0.00	142.10
70	10.67	10.67	32.07	7.77	9.99	0.00	142.10
75	10.67	10.67	32.07	7.77	9.99	0.00	142.10
80	10.67	10.67	32.07	7.77	9.99	0.00	142.10
85	10.67	10.67	32.07	7.77	9.99	0.00	142.10
90	10.67	10.67	32.07	7.77	9.99	0.00	142.10
95	10.67	10.67	32.07	7.77	9.99	0.00	142.10
100	10.67	10.67	32.07	7.77	9.99	0.00	142.10



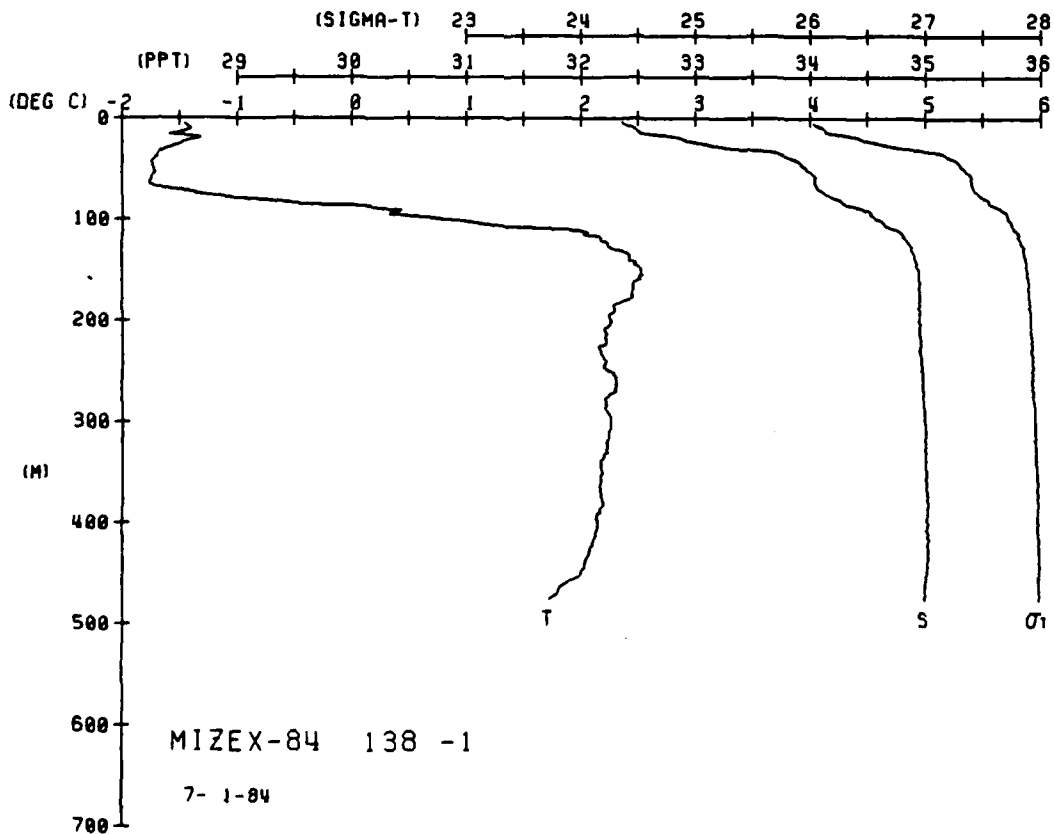
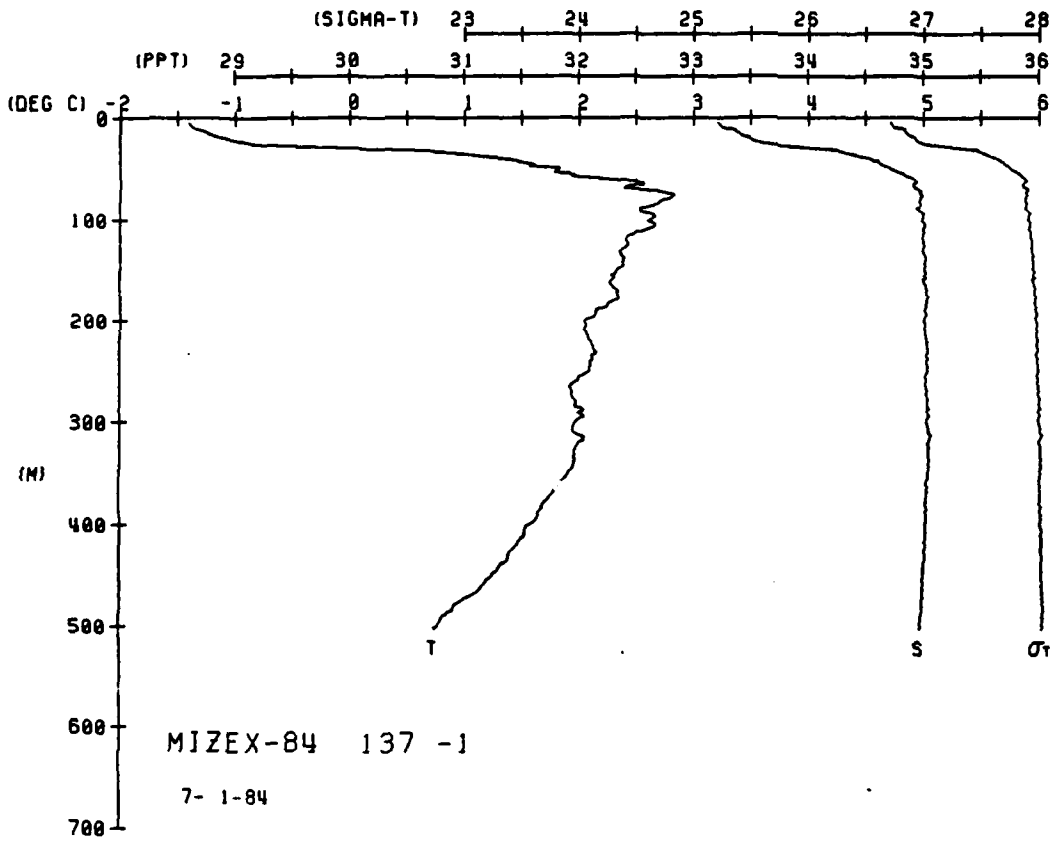


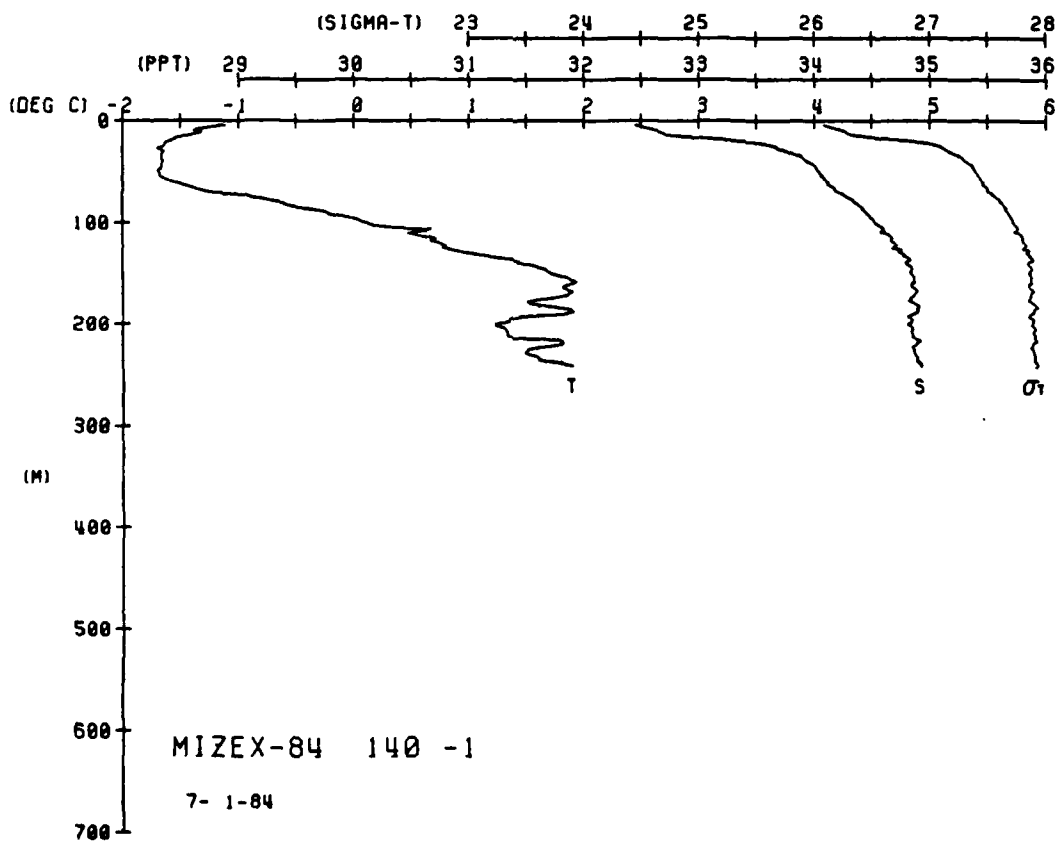
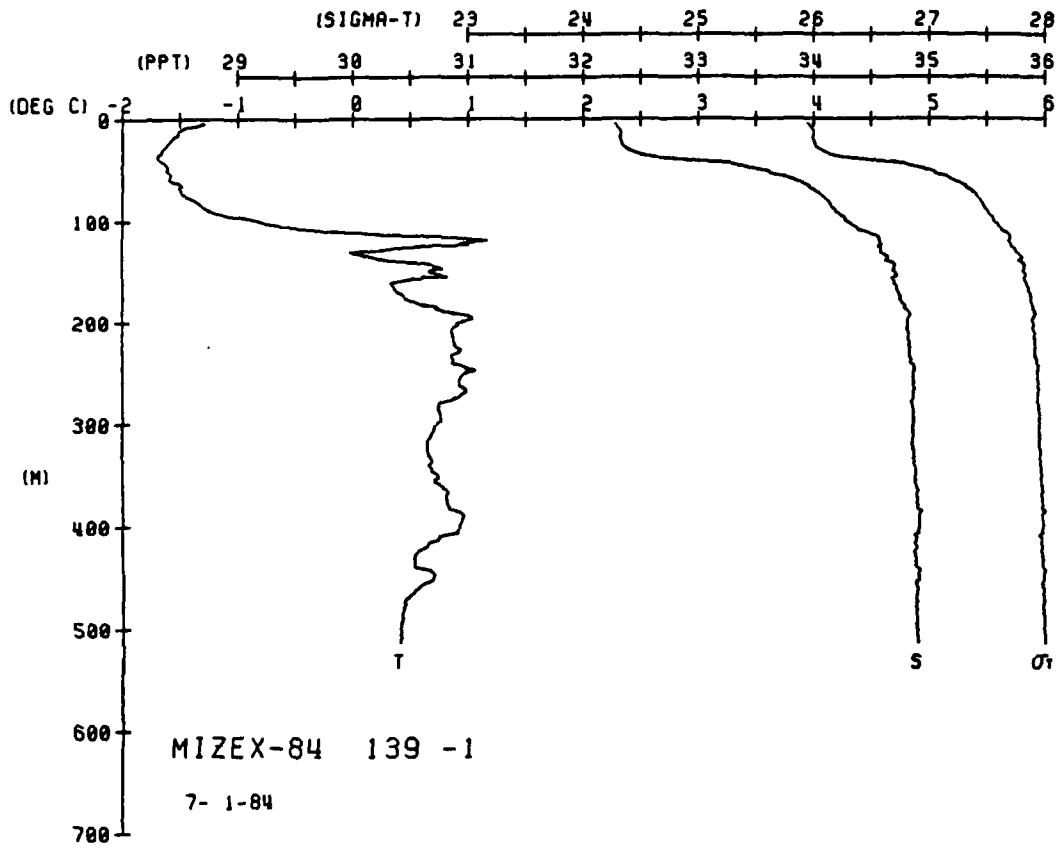
MIXE-84 STATION 138(1) CTD 1/JUL/1984 1345 GMT CUDE = 1
LAT = 79.2083N LNC = 3.1883W LTER = 150. LGEN = 150.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

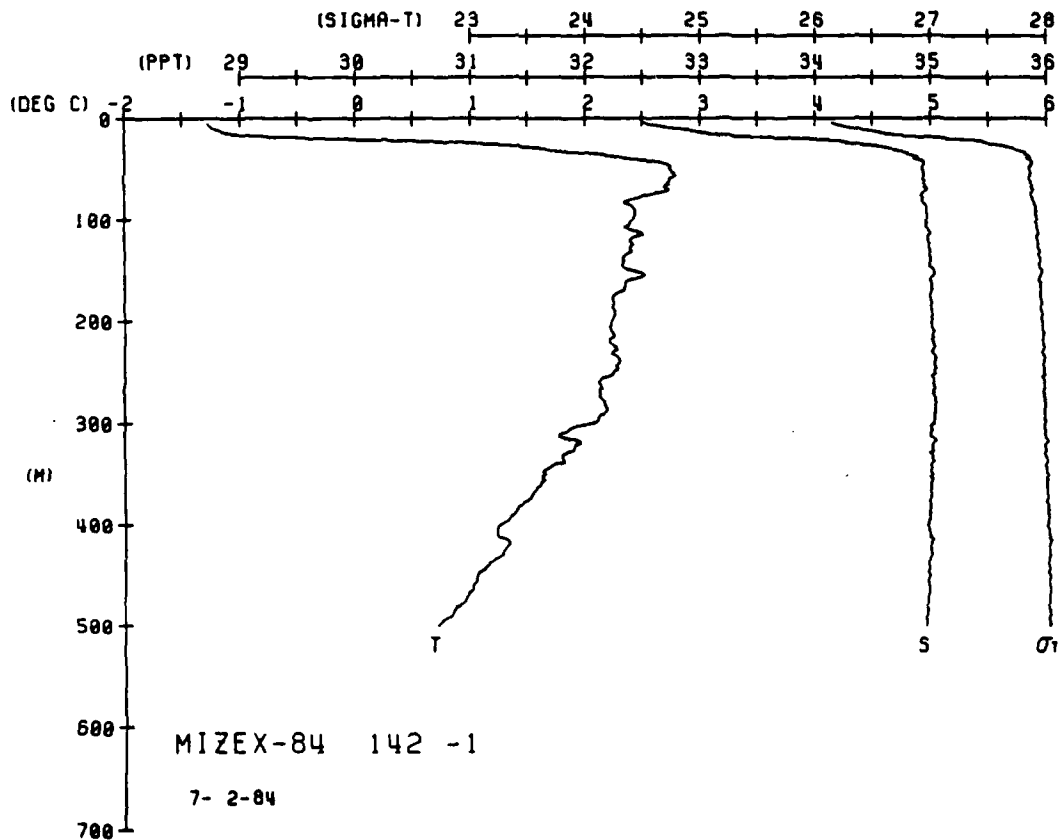
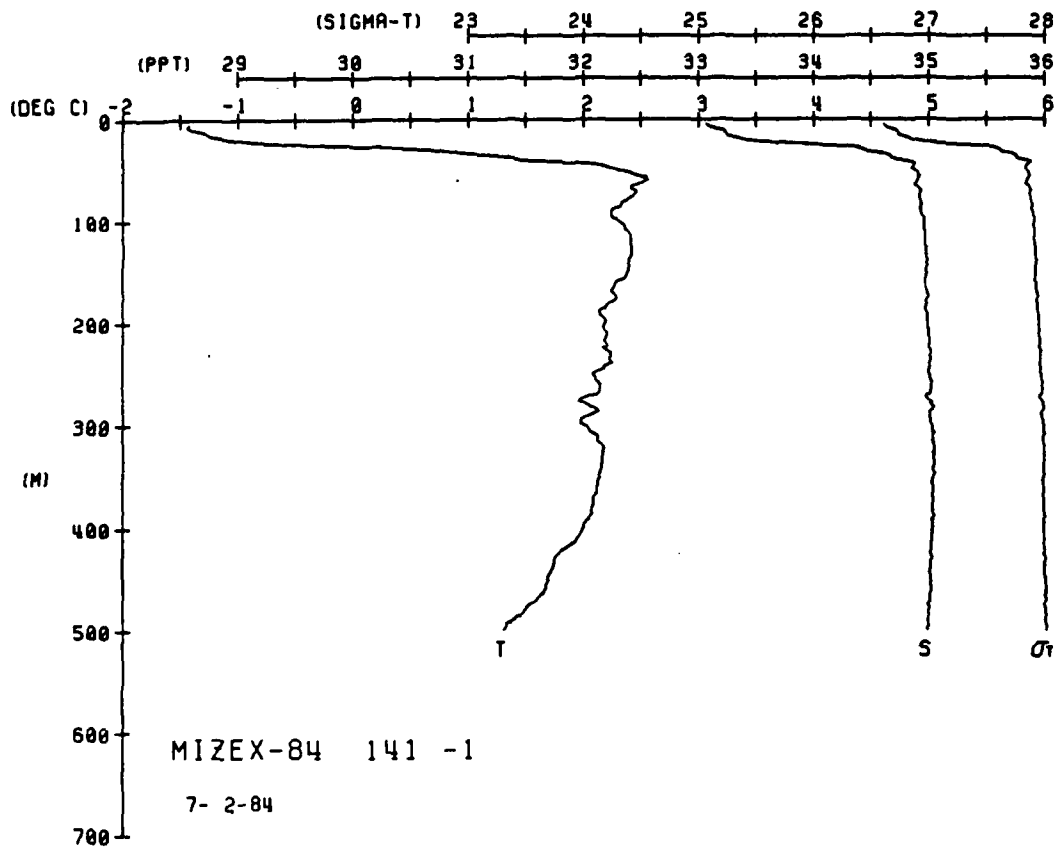
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DINH I	SOUND
0	33.50	33.50	33.50	11.11	1321	0000	9999
5	33.50	33.50	33.50	11.11	1321	0000	9999
10	33.50	33.50	33.50	11.11	1321	0000	9999
15	33.50	33.50	33.50	11.11	1321	0000	9999
20	33.50	33.50	33.50	11.11	1321	0000	9999
25	33.50	33.50	33.50	11.11	1321	0000	9999
30	33.50	33.50	33.50	11.11	1321	0000	9999
35	33.50	33.50	33.50	11.11	1321	0000	9999
40	33.50	33.50	33.50	11.11	1321	0000	9999
45	33.50	33.50	33.50	11.11	1321	0000	9999
50	33.50	33.50	33.50	11.11	1321	0000	9999
55	33.50	33.50	33.50	11.11	1321	0000	9999
60	33.50	33.50	33.50	11.11	1321	0000	9999
65	33.50	33.50	33.50	11.11	1321	0000	9999
70	33.50	33.50	33.50	11.11	1321	0000	9999
75	33.50	33.50	33.50	11.11	1321	0000	9999
80	33.50	33.50	33.50	11.11	1321	0000	9999
85	33.50	33.50	33.50	11.11	1321	0000	9999
90	33.50	33.50	33.50	11.11	1321	0000	9999
95	33.50	33.50	33.50	11.11	1321	0000	9999
100	33.50	33.50	33.50	11.11	1321	0000	9999

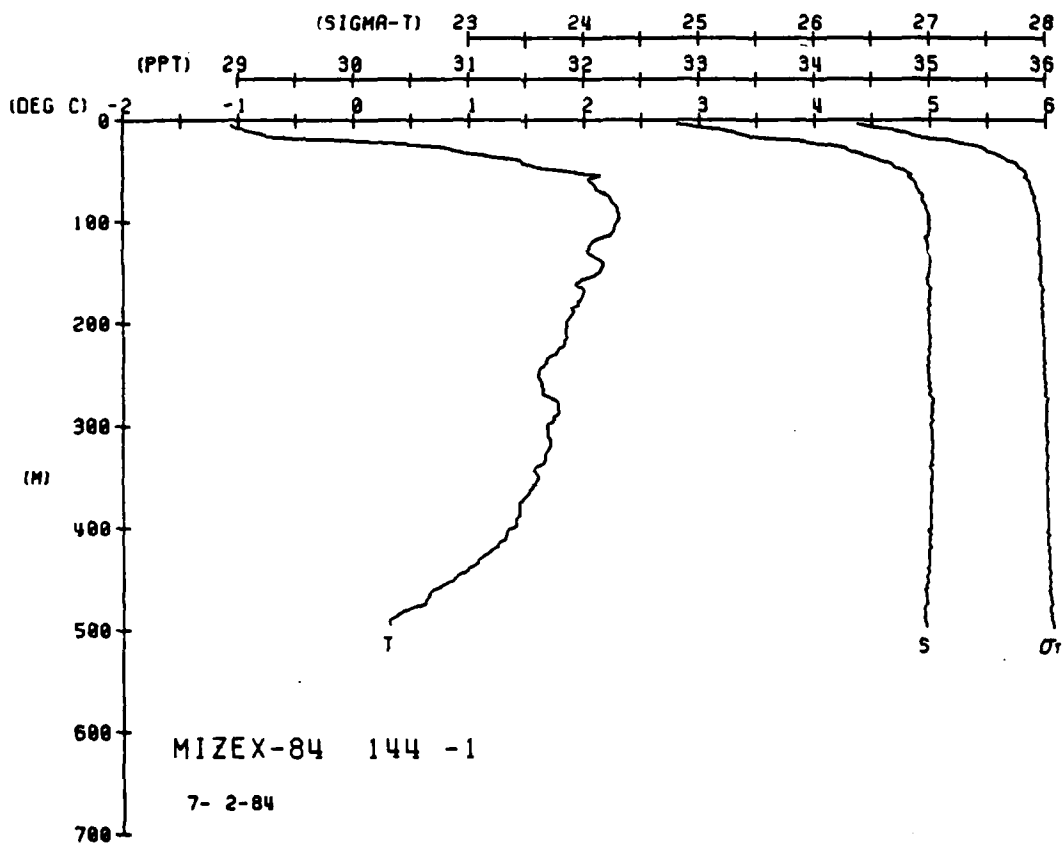
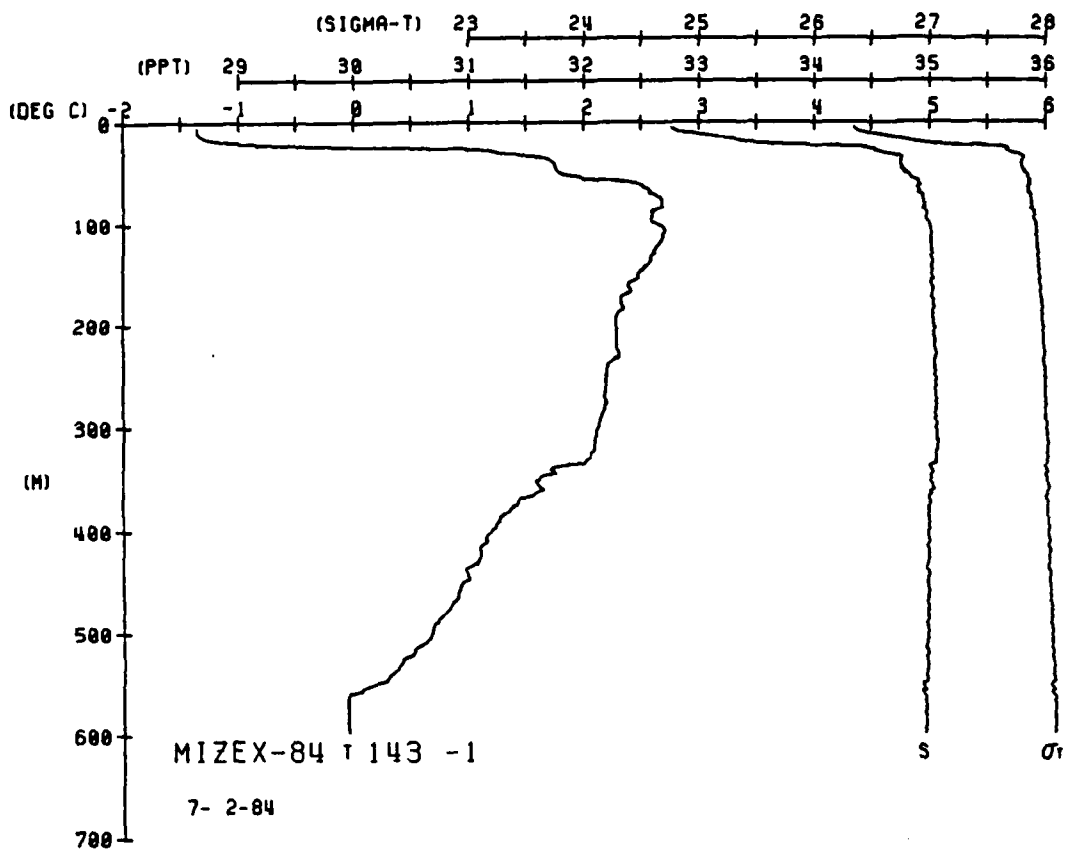
MIXE-84 STATION 137(1) CTD 1/JUL/1984 1253 GMT CODE = 1
LAT = 80.3333N LNC = 4.7000E LTER = 150. LGEN = 150.
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

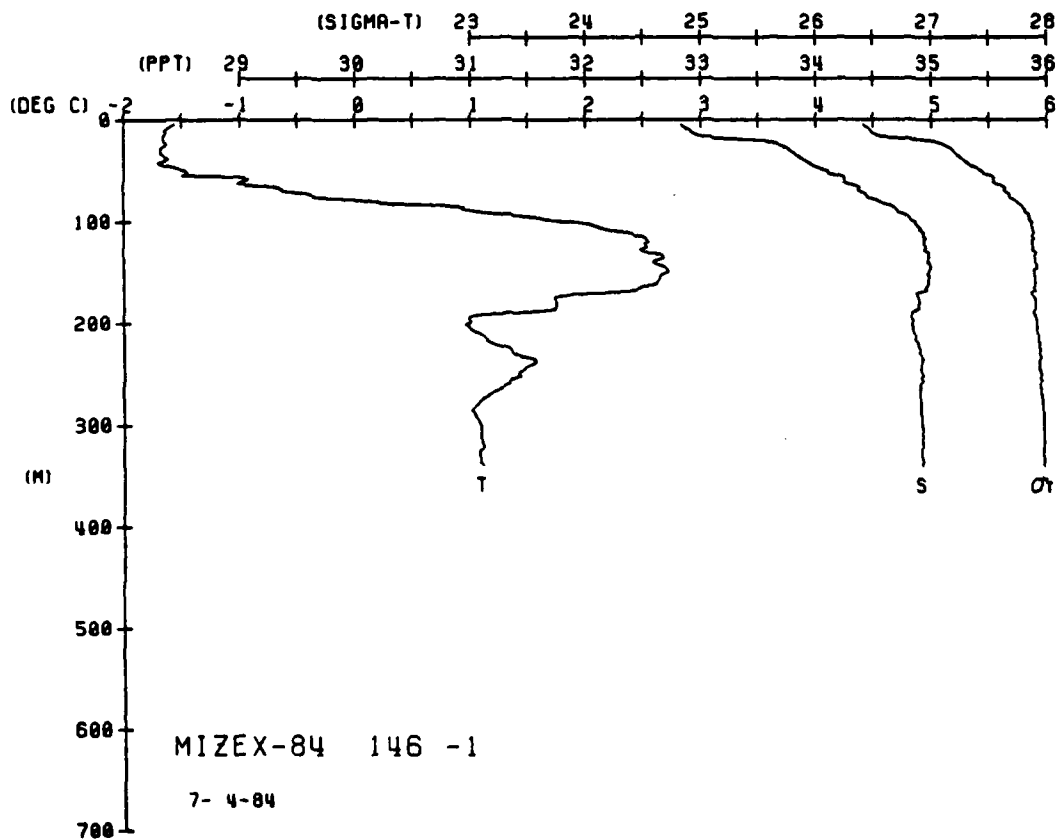
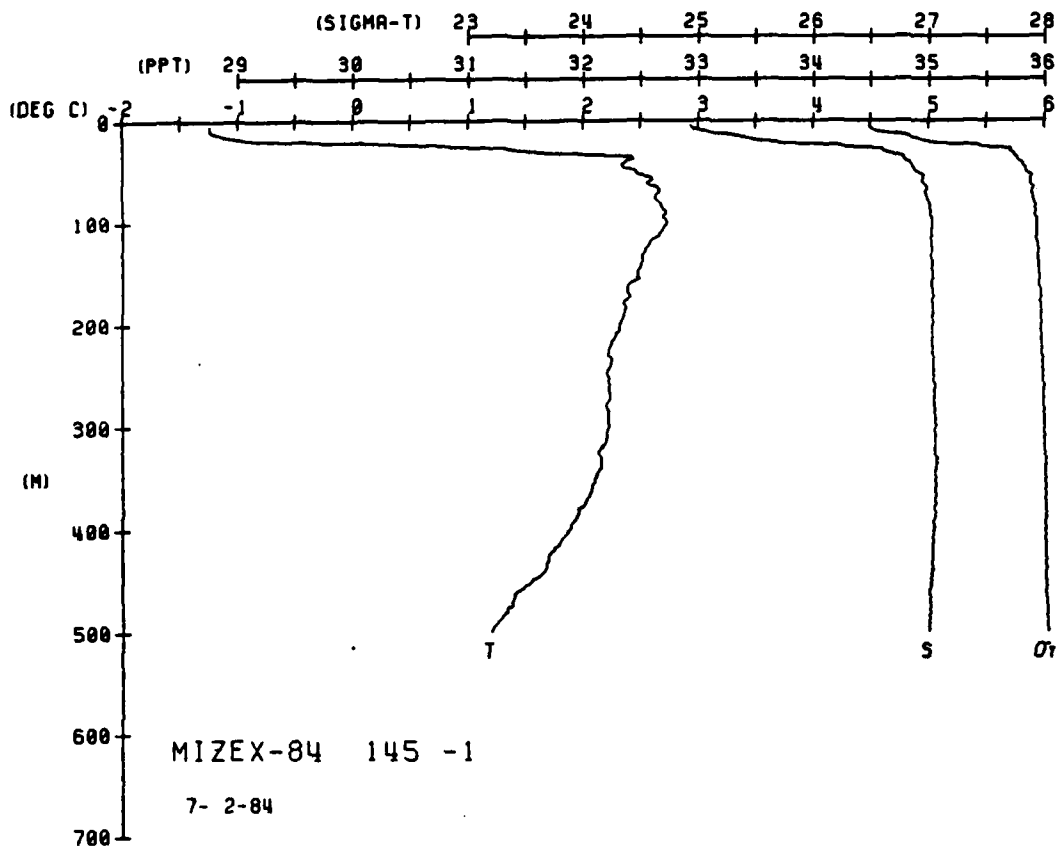
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DINH I	SOUND
0	33.50	33.50	33.50	11.11	1321	0000	9999
5	33.50	33.50	33.50	11.11	1321	0000	9999
10	33.50	33.50	33.50	11.11	1321	0000	9999
15	33.50	33.50	33.50	11.11	1321	0000	9999
20	33.50	33.50	33.50	11.11	1321	0000	9999
25	33.50	33.50	33.50	11.11	1321	0000	9999
30	33.50	33.50	33.50	11.11	1321	0000	9999
35	33.50	33.50	33.50	11.11	1321	0000	9999
40	33.50	33.50	33.50	11.11	1321	0000	9999
45	33.50	33.50	33.50	11.11	1321	0000	9999
50	33.50	33.50	33.50	11.11	1321	0000	9999
55	33.50	33.50	33.50	11.11	1321	0000	9999
60	33.50	33.50	33.50	11.11	1321	0000	9999
65	33.50	33.50	33.50	11.11	1321	0000	9999
70	33.50	33.50	33.50	11.11	1321	0000	9999
75	33.50	33.50	33.50	11.11	1321	0000	9999
80	33.50	33.50	33.50	11.11	1321	0000	9999
85	33.50	33.50	33.50	11.11	1321	0000	9999
90	33.50	33.50	33.50	11.11	1321	0000	9999
95	33.50	33.50	33.50	11.11	1321	0000	9999
100	33.50	33.50	33.50	11.11	1321	0000	9999

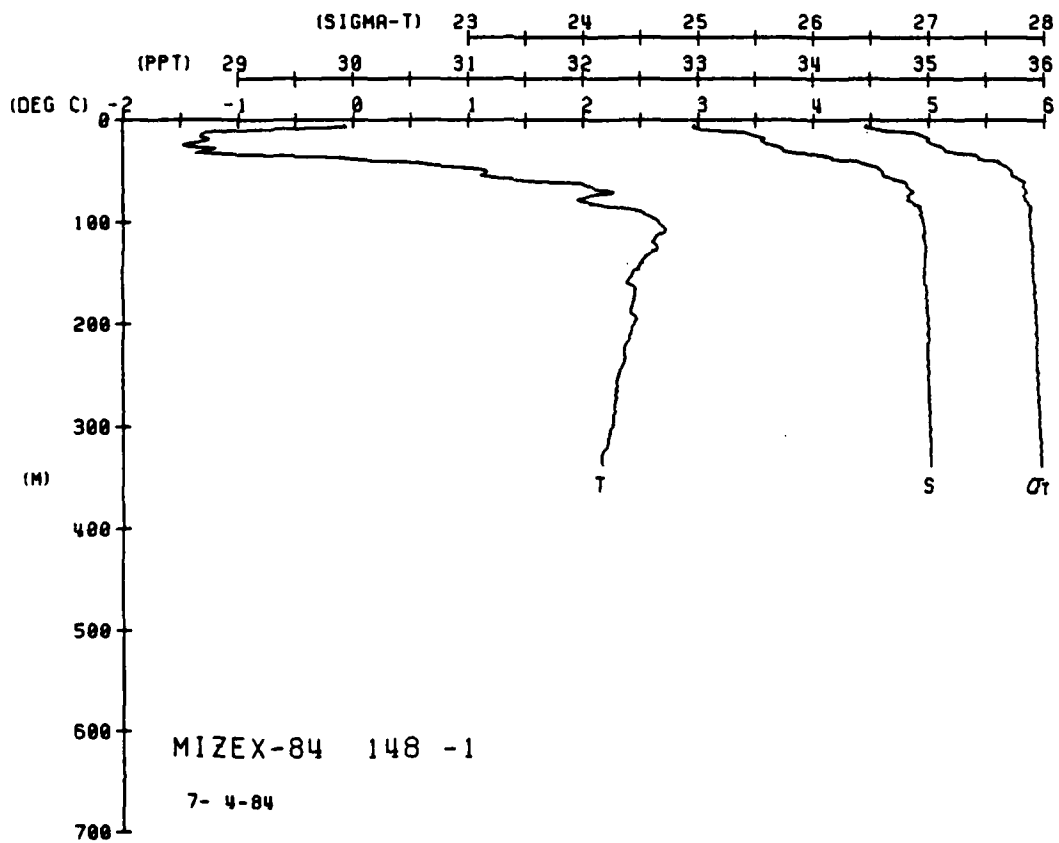
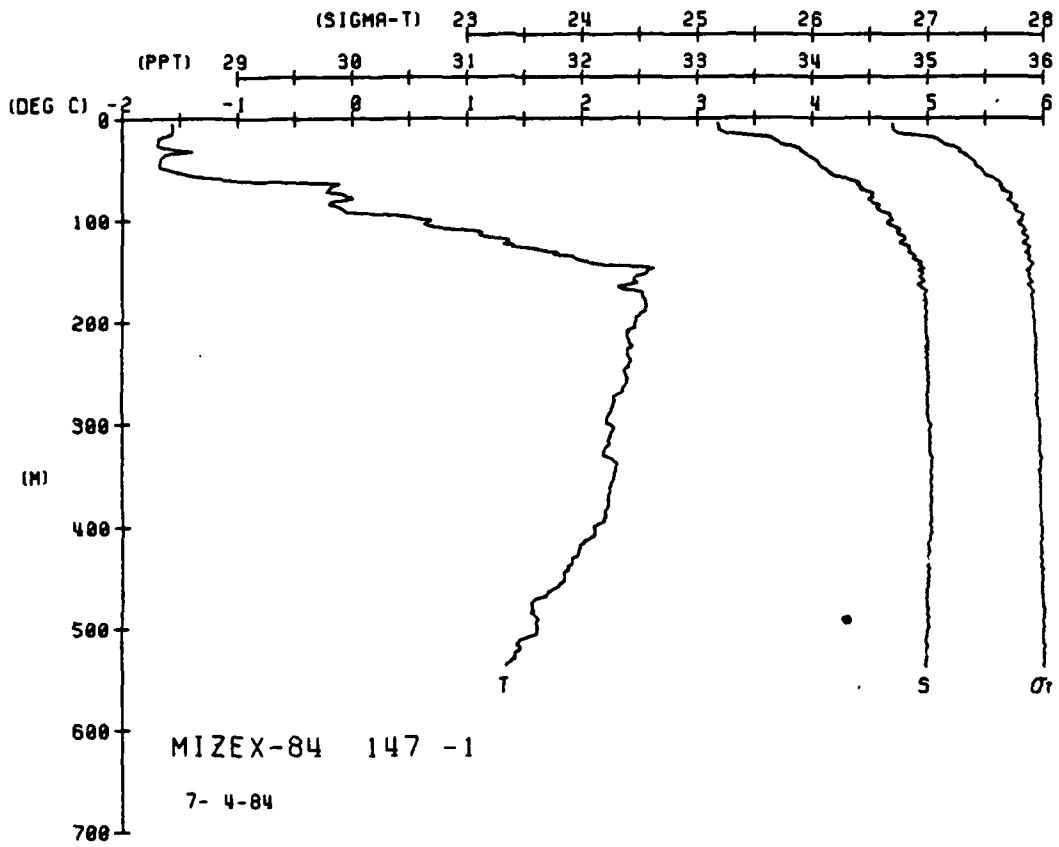


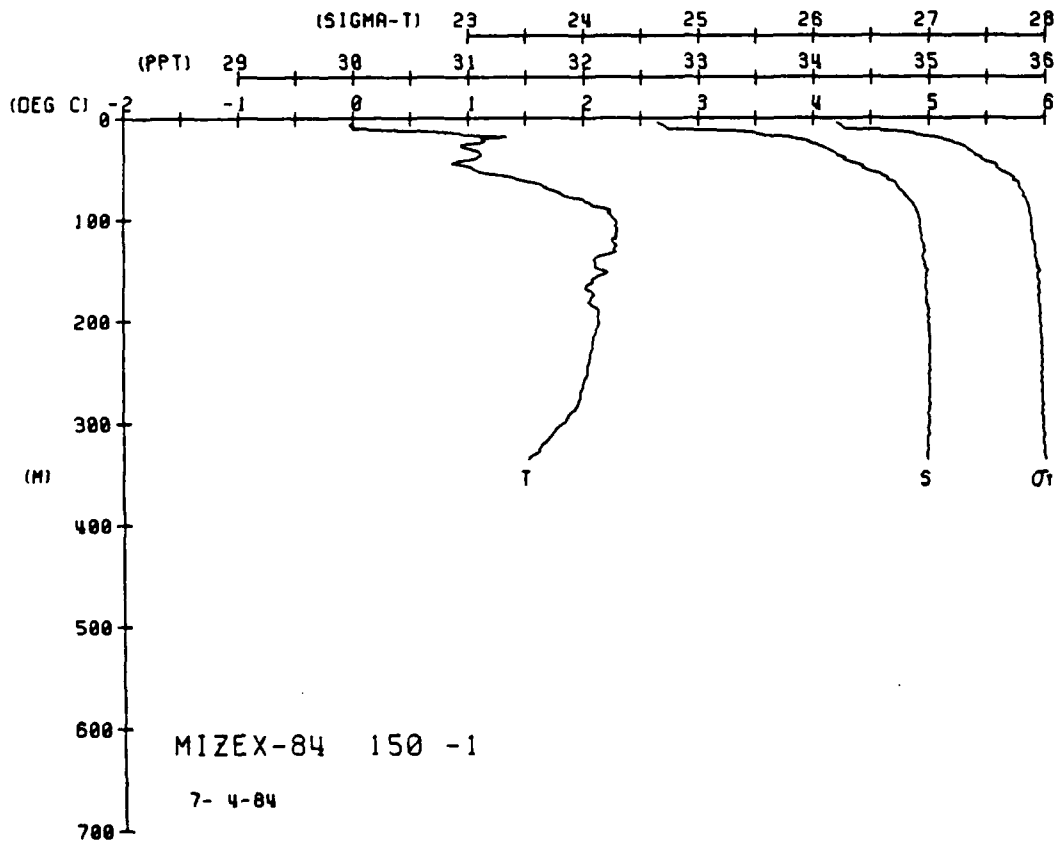
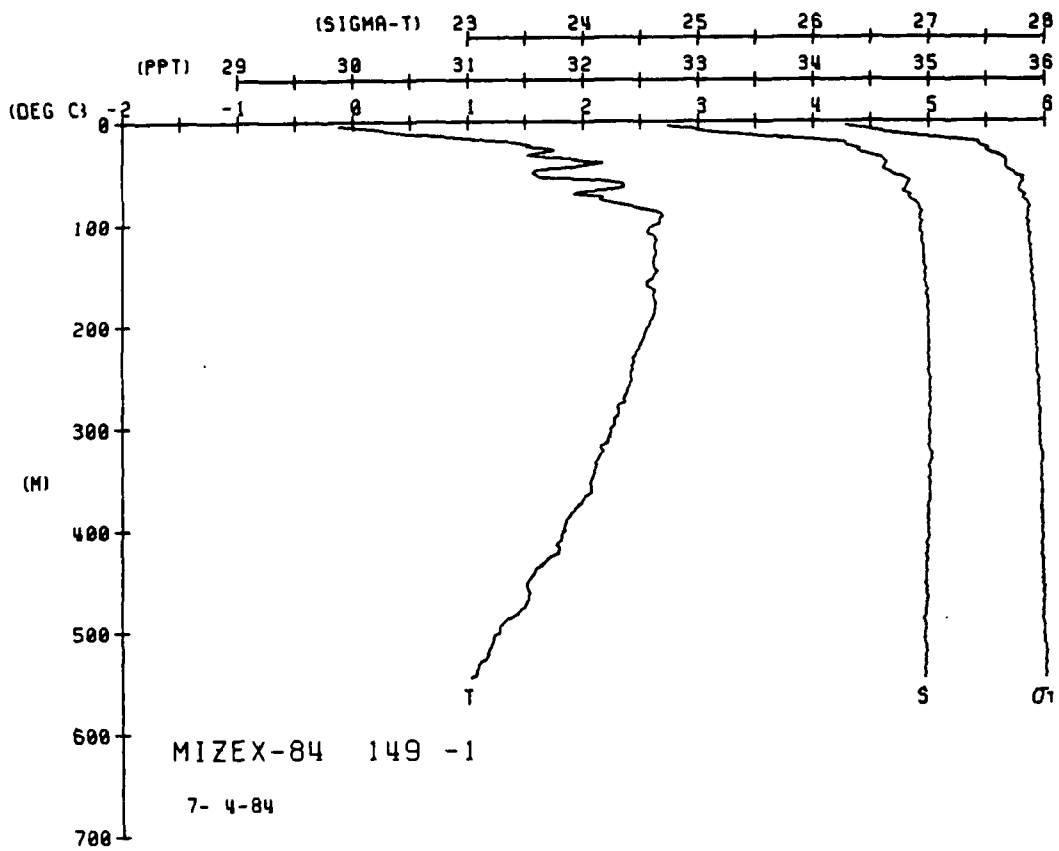


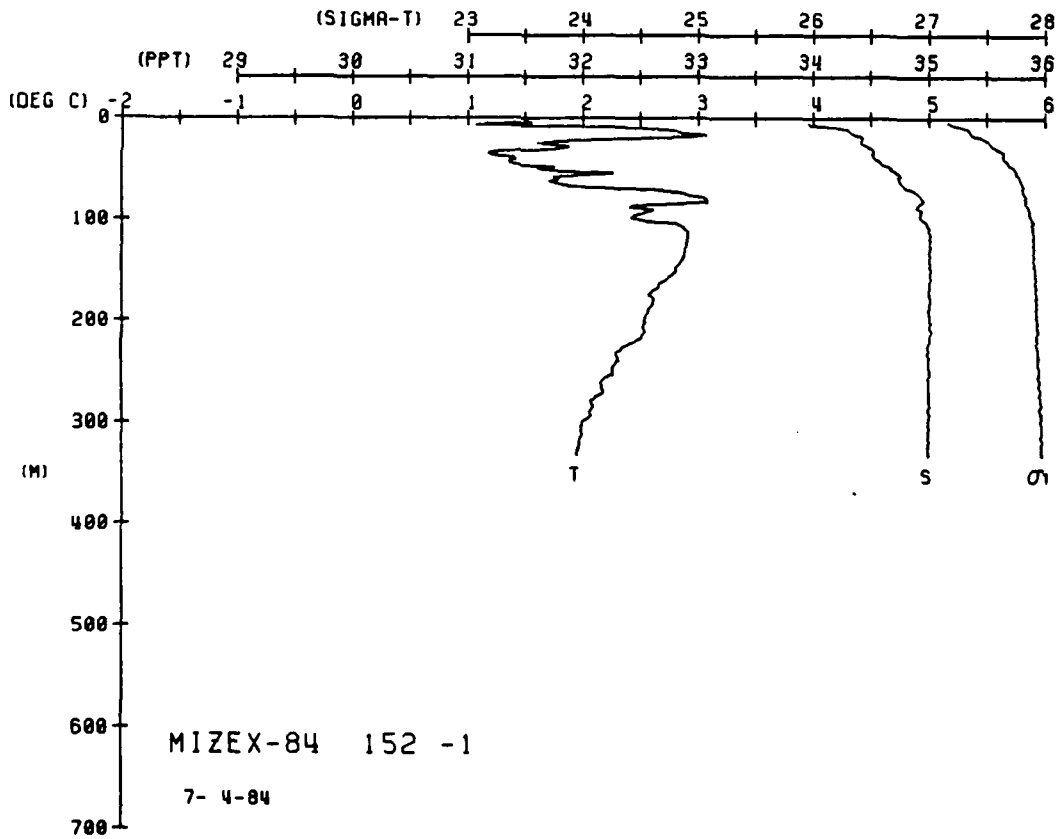
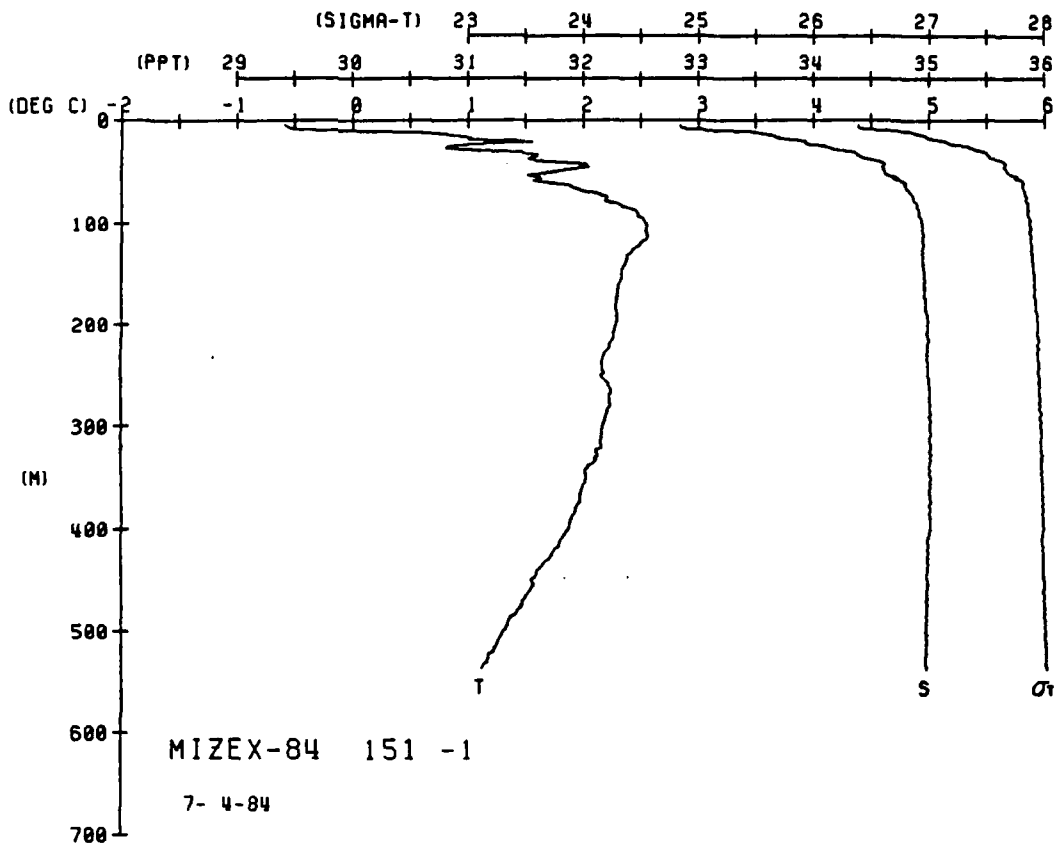










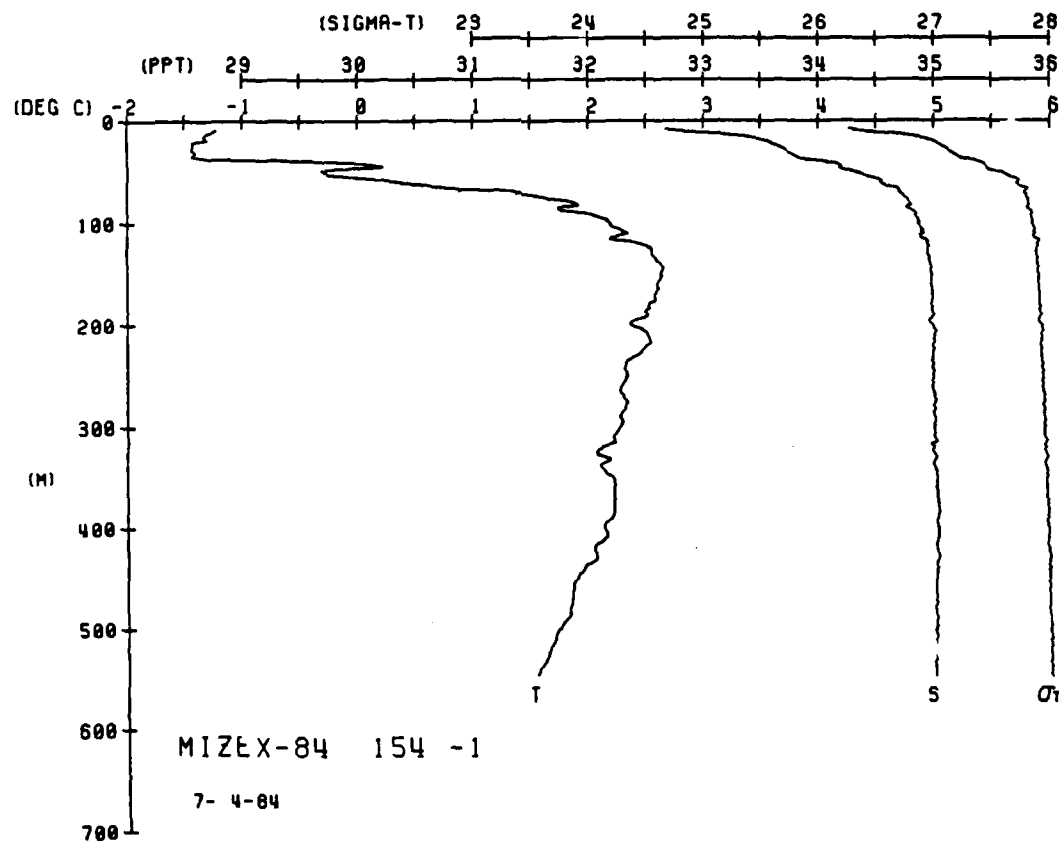
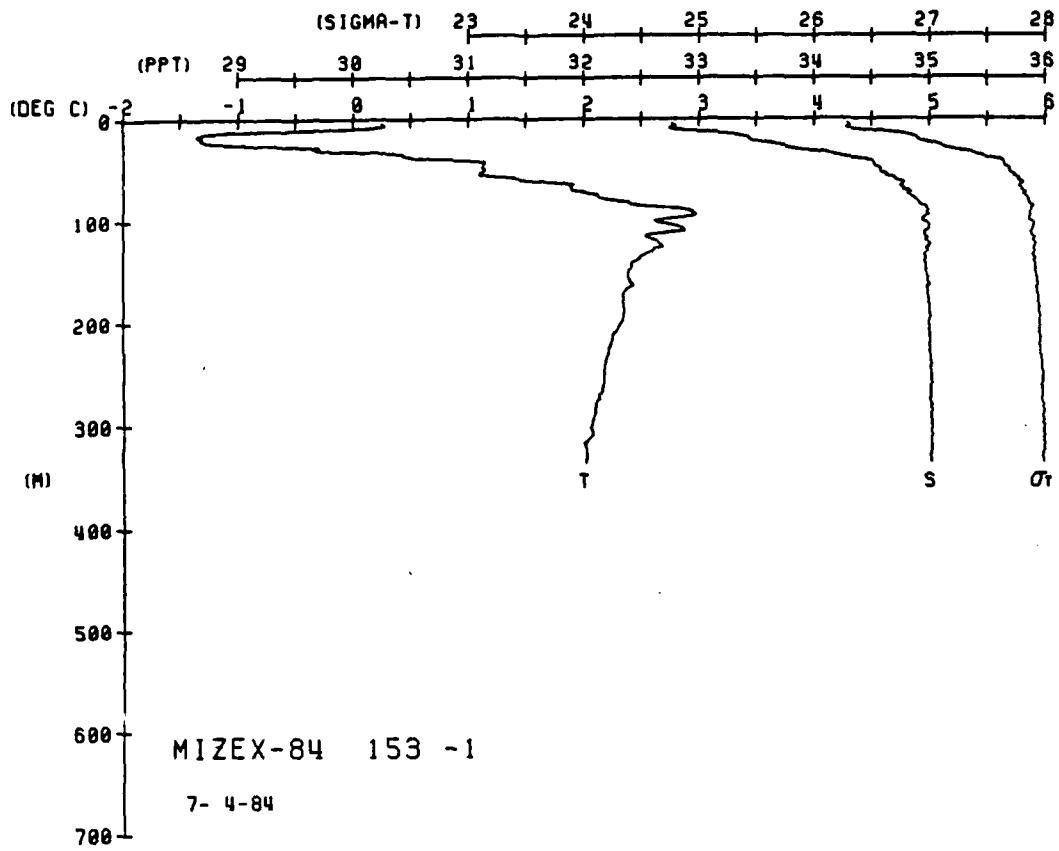


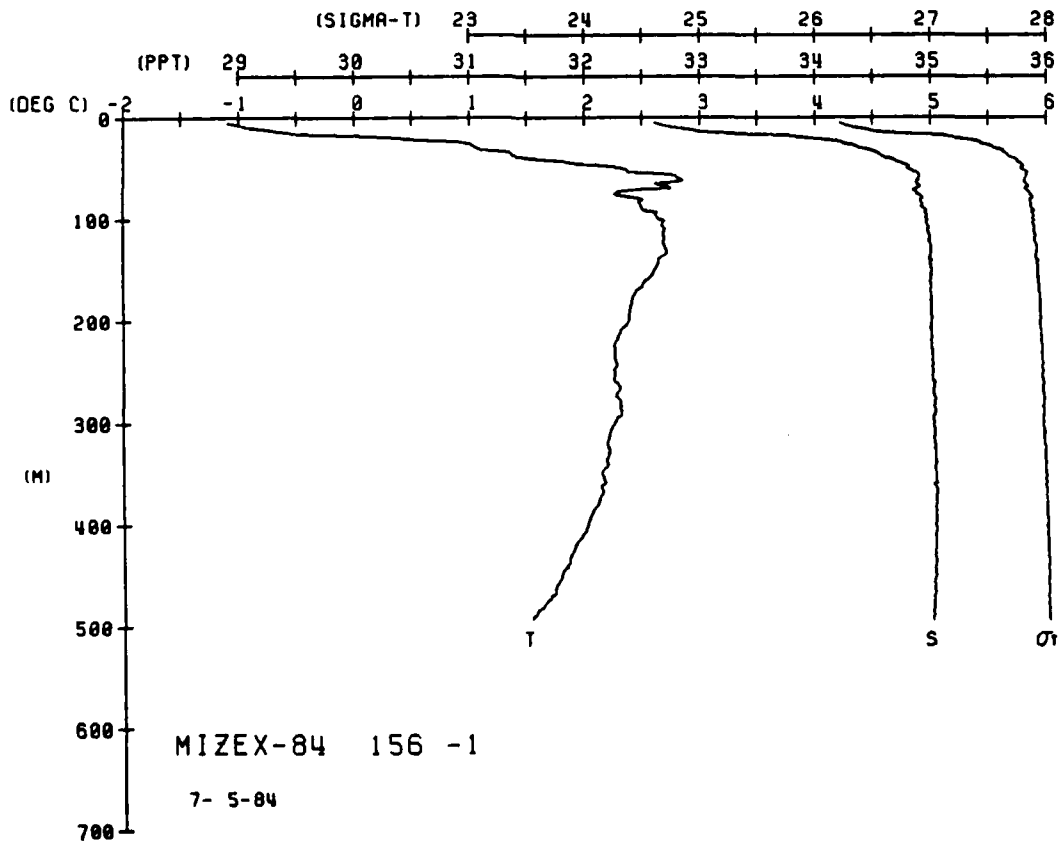
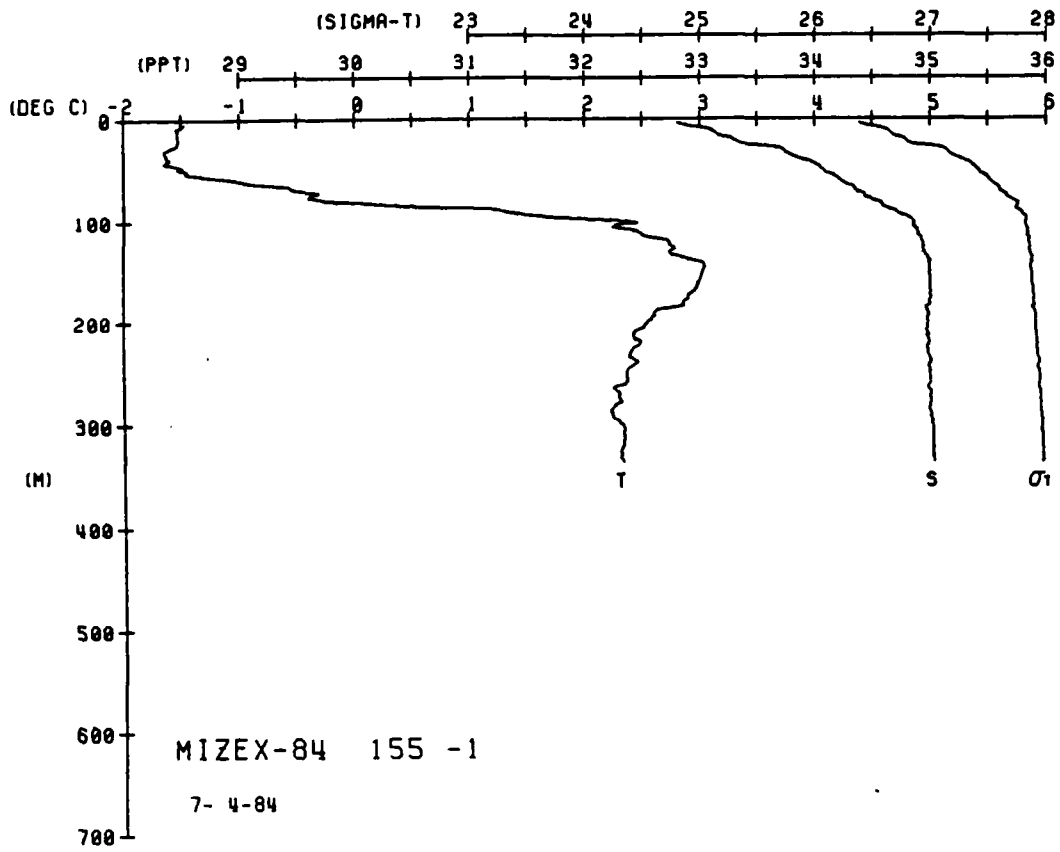
MIXA-84 STATION 153(1) CTU 4/JUL/1984 1400 GMT CODE = 1
LAT = 80.2217N LNC = 1.8700E LTER = 300. LGER = 300.
AIR TEMP = 0.0 BARUM = 0.0 WIND = 0.0 SPEED = 0.0

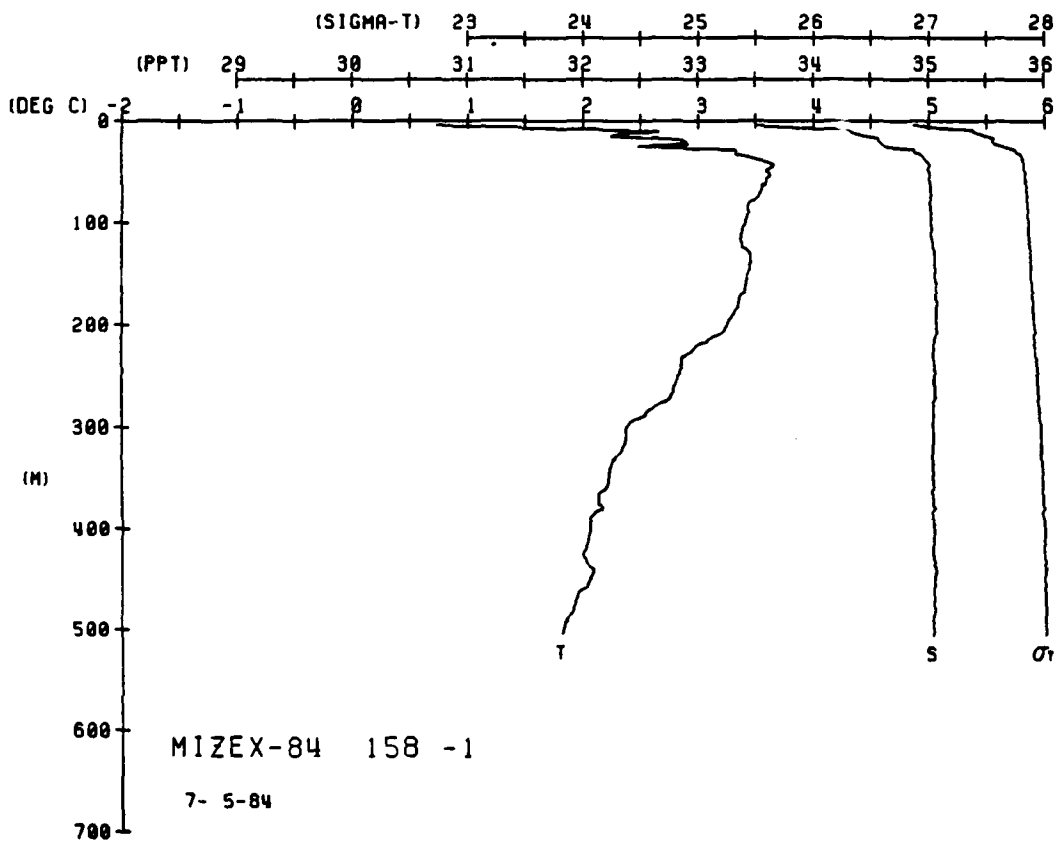
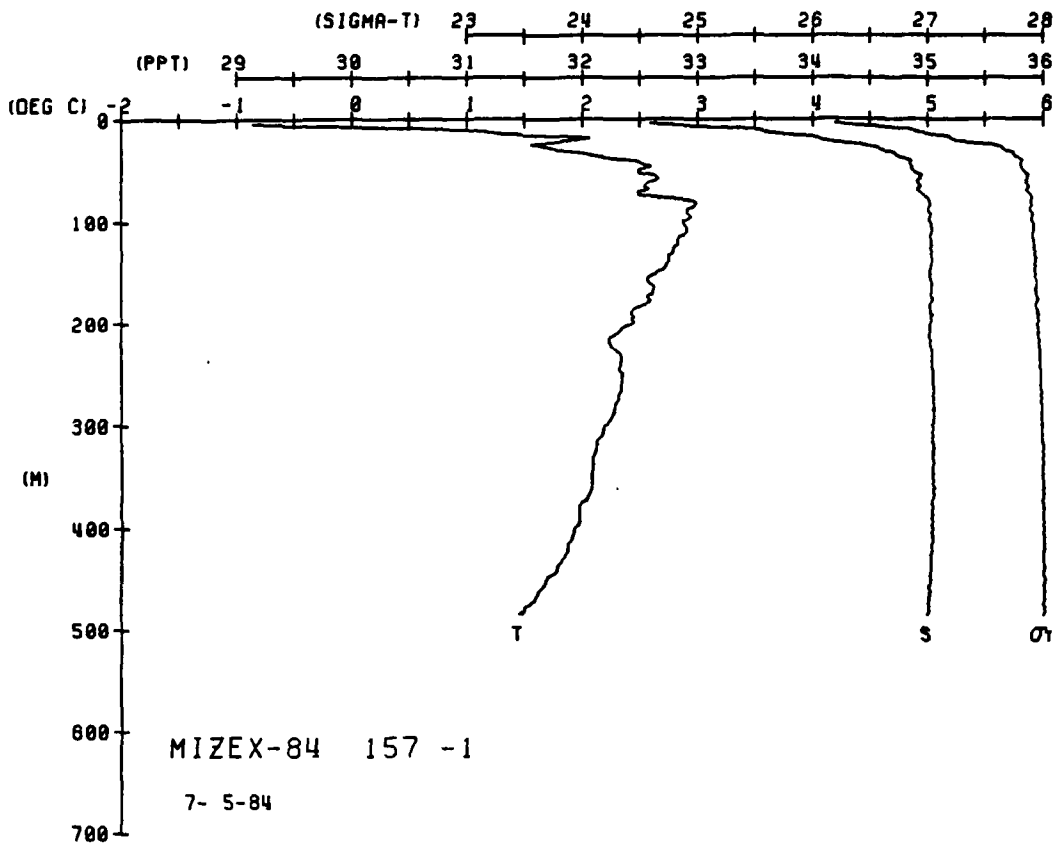
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
00	00	00	00	00	00	00	00
05	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00
35	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00
45	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00
55	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00
65	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00
75	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00
85	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00
95	00	00	00	00	00	00	00
100	00	00	00	00	00	00	00
105	00	00	00	00	00	00	00
110	00	00	00	00	00	00	00
115	00	00	00	00	00	00	00
120	00	00	00	00	00	00	00
125	00	00	00	00	00	00	00
130	00	00	00	00	00	00	00
135	00	00	00	00	00	00	00
140	00	00	00	00	00	00	00
145	00	00	00	00	00	00	00
150	00	00	00	00	00	00	00
155	00	00	00	00	00	00	00
160	00	00	00	00	00	00	00
165	00	00	00	00	00	00	00
170	00	00	00	00	00	00	00
175	00	00	00	00	00	00	00
180	00	00	00	00	00	00	00
185	00	00	00	00	00	00	00
190	00	00	00	00	00	00	00
195	00	00	00	00	00	00	00
200	00	00	00	00	00	00	00
205	00	00	00	00	00	00	00
210	00	00	00	00	00	00	00
215	00	00	00	00	00	00	00
220	00	00	00	00	00	00	00
225	00	00	00	00	00	00	00
230	00	00	00	00	00	00	00
235	00	00	00	00	00	00	00
240	00	00	00	00	00	00	00
245	00	00	00	00	00	00	00
250	00	00	00	00	00	00	00
255	00	00	00	00	00	00	00
260	00	00	00	00	00	00	00
265	00	00	00	00	00	00	00
270	00	00	00	00	00	00	00
275	00	00	00	00	00	00	00
280	00	00	00	00	00	00	00
285	00	00	00	00	00	00	00
290	00	00	00	00	00	00	00
295	00	00	00	00	00	00	00
300	00	00	00	00	00	00	00

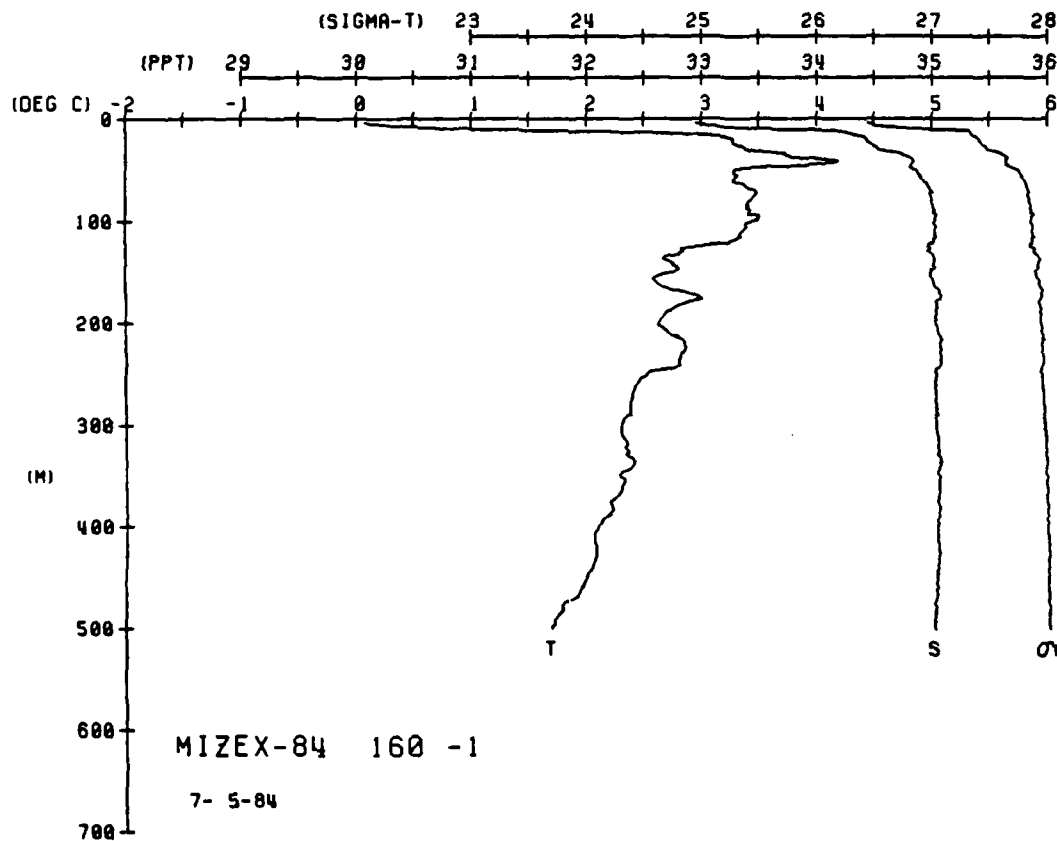
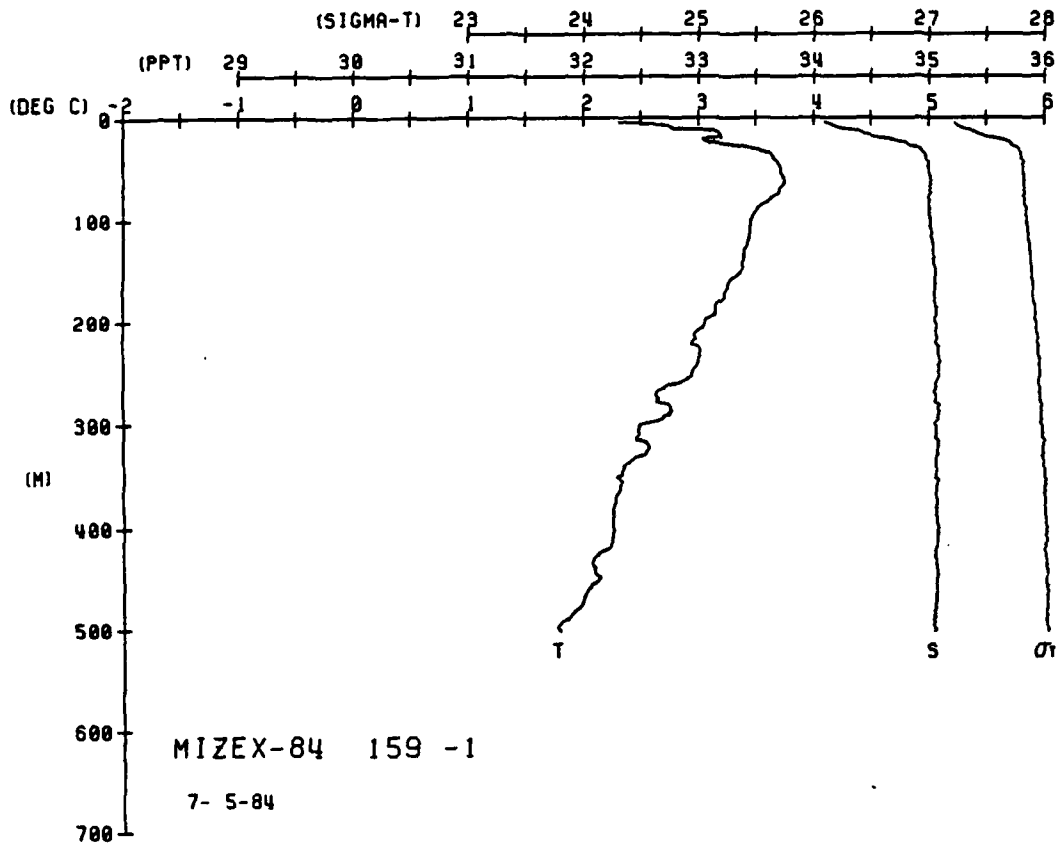
MIXA-84 STATION 154(1) CTU 4/JUL/1984 1534 UTC CODE = 1
LAT = 80.1983N LNC = 1.2000E LTER = 300. LGER = 300.
AIR TEMP = 0.0 BARUM = 0.0 WIND = 0.0 SPEED = 0.0

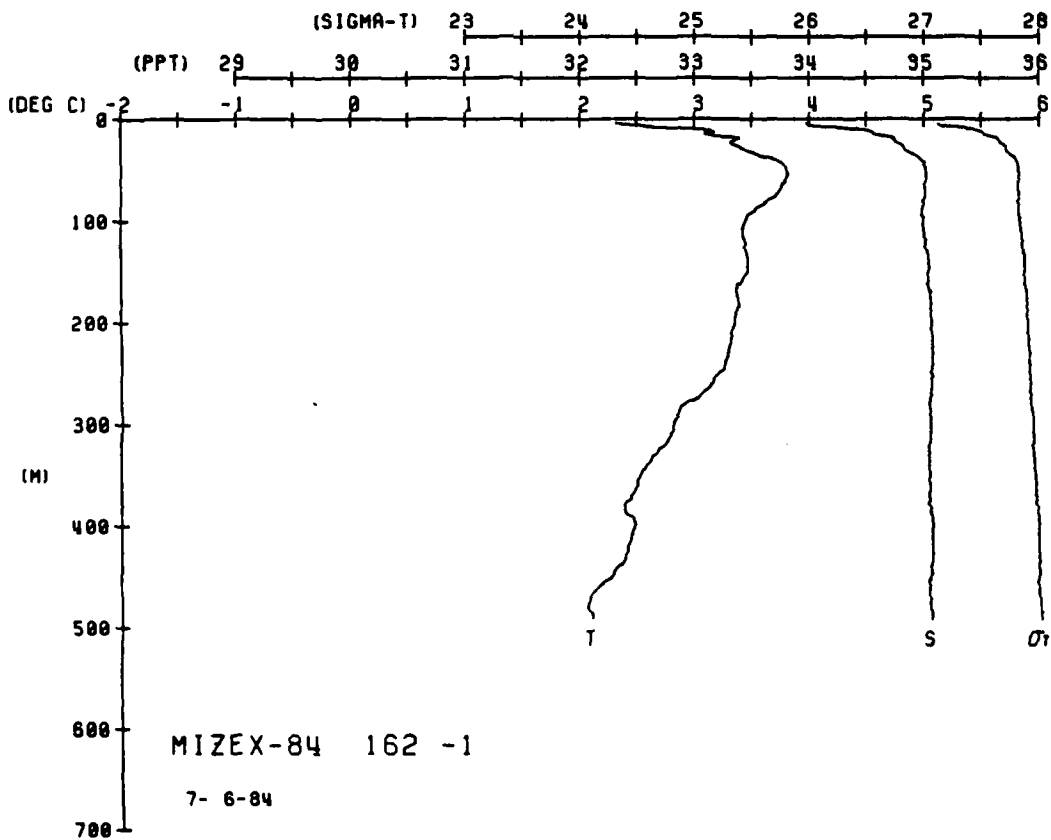
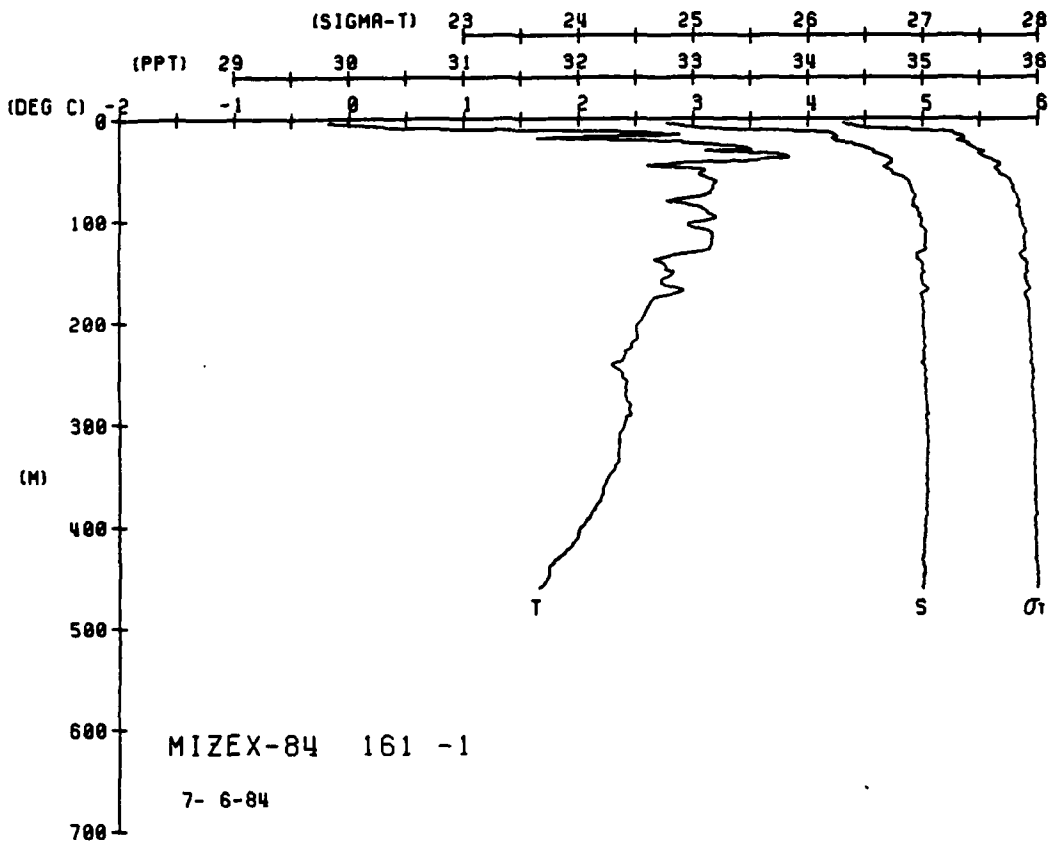
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
00	00	00	00	00	00	00	00
05	00	00	00	00	00	00	00
10	00	00	00	00	00	00	00
15	00	00	00	00	00	00	00
20	00	00	00	00	00	00	00
25	00	00	00	00	00	00	00
30	00	00	00	00	00	00	00
35	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00
45	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00
55	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00
65	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00
75	00	00	00	00	00	00	00
80	00	00	00	00	00	00	00
85	00	00	00	00	00	00	00
90	00	00	00	00	00	00	00
95	00	00	00	00	00	00	00
100	00	00	00	00	00	00	00
105	00	00	00	00	00	00	00
110	00	00	00	00	00	00	00
115	00	00	00	00	00	00	00
120	00	00	00	00	00	00	00
125	00	00	00	00	00	00	00
130	00	00	00	00	00	00	00
135	00	00	00	00	00	00	00
140	00	00	00	00	00	00	00
145	00	00	00	00	00	00	00
150	00	00	00	00	00	00	00
155	00	00	00	00	00	00	00
160	00	00	00	00	00	00	00
165	00	00	00	00	00	00	00
170	00	00	00	00	00	00	00
175	00	00	00	00	00	00	00
180	00	00	00	00	00	00	00
185	00	00	00	00	00	00	00
190	00	00	00	00	00	00	00
195	00	00	00	00	00	00	00
200	00	00	00	00	00	00	00
205	00	00	00	00	00	00	00
210	00	00	00	00	00	00	00
215	00	00	00	00	00	00	00
220	00	00	00	00	00	00	00
225	00	00	00	00	00	00	00
230	00	00	00	00	00	00	00
235	00	00	00	00	00	00	00
240	00	00	00	00	00	00	00
245	00	00	00	00	00	00	00
250	00	00	00	00	00	00	00
255	00	00	00	00	00	00	00
260	00	00	00	00	00	00	00
265	00	00	00	00	00	00	00
270	00	00	00	00	00	00	00
275	00	00	00	00	00	00	00
280	00	00	00	00	00	00	00
285	00	00	00	00	00	00	00
290	00	00	00	00	00	00	00
295	00	00	00	00	00	00	00
300	00	00	00	00	00	00	00

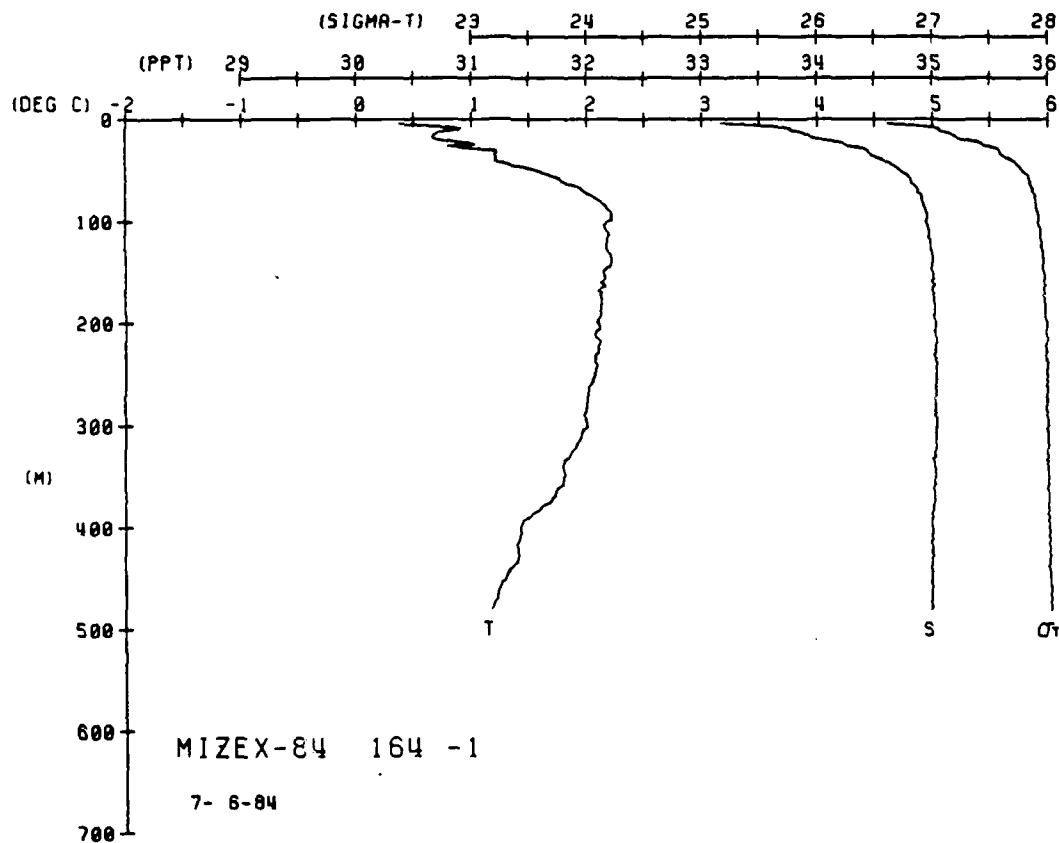
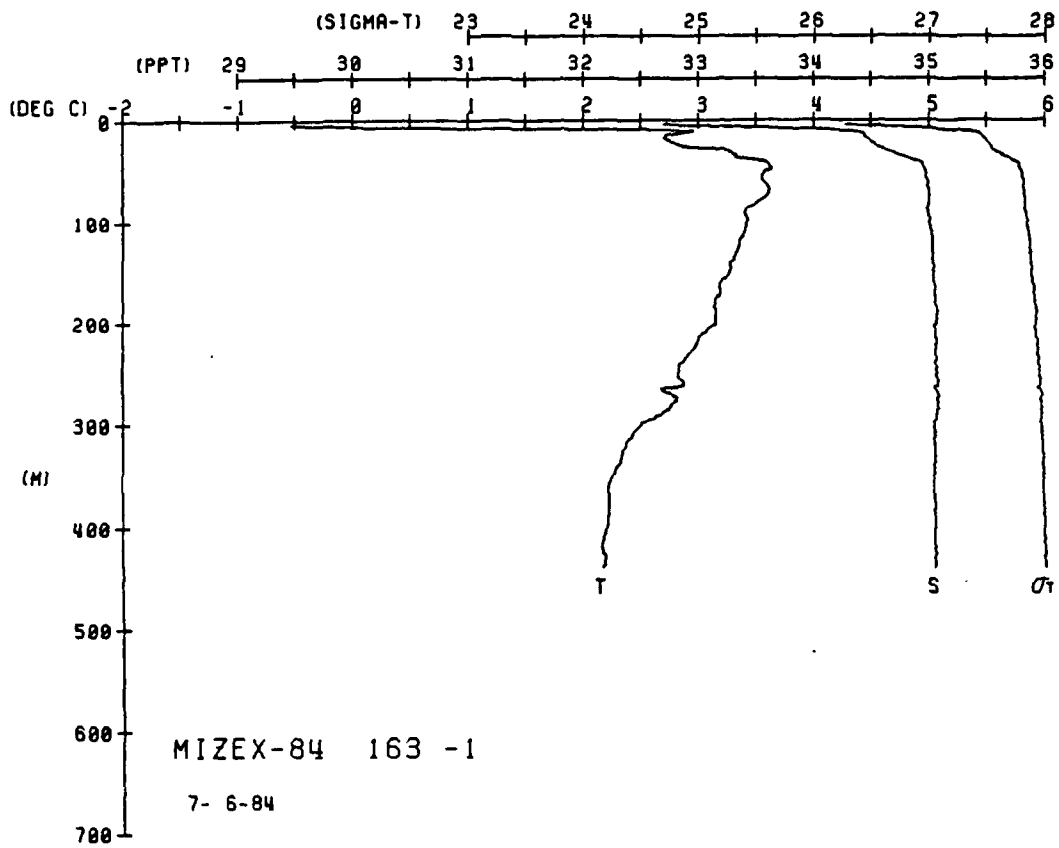


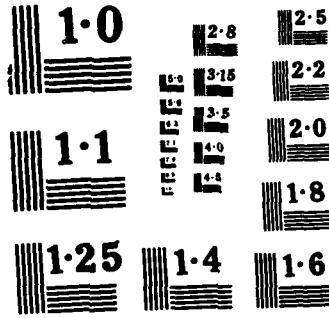




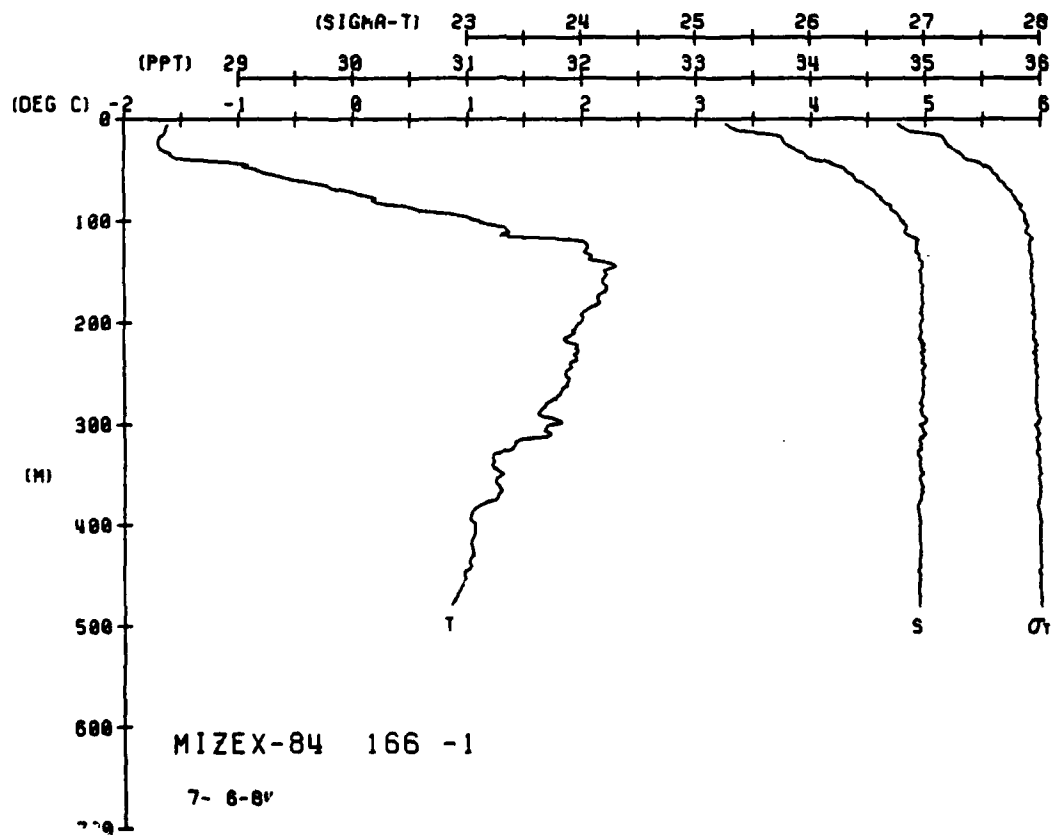
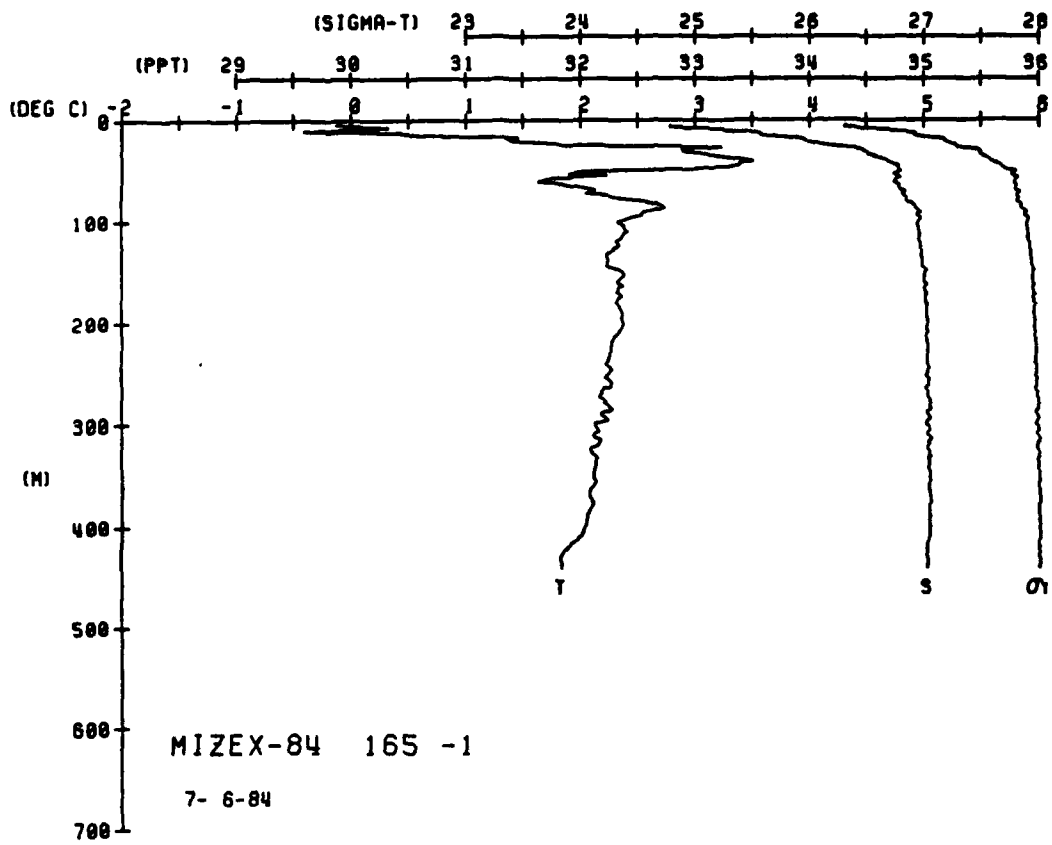


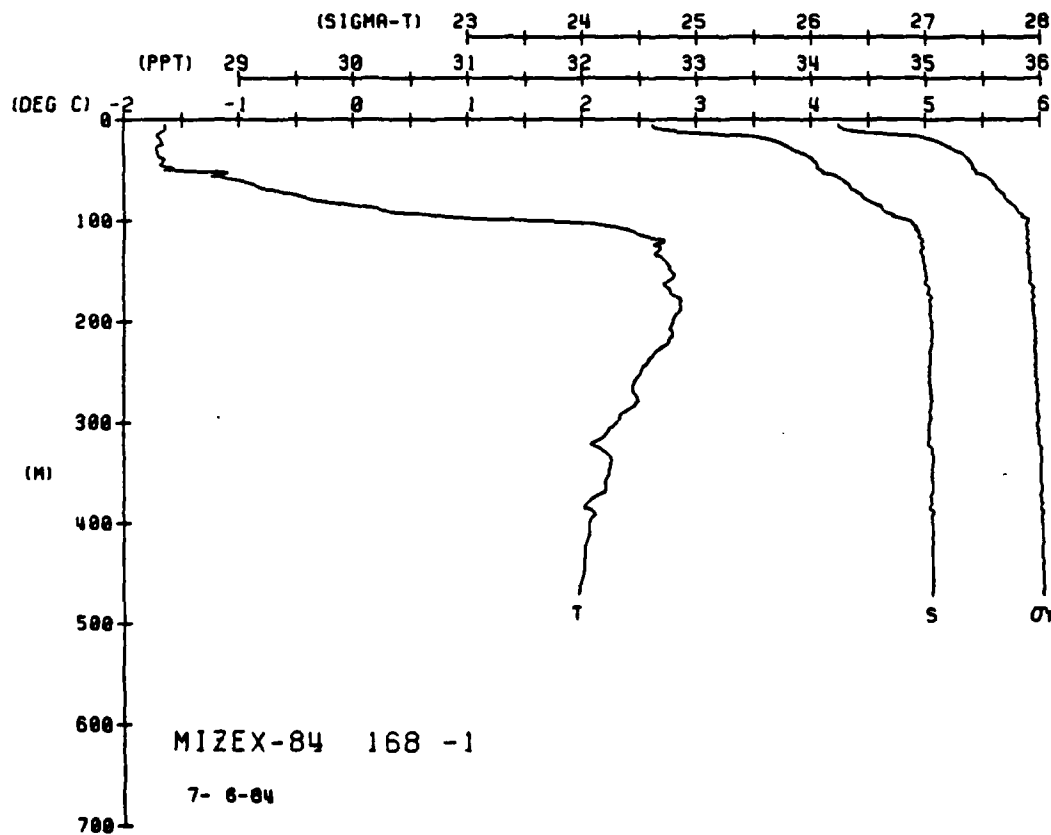
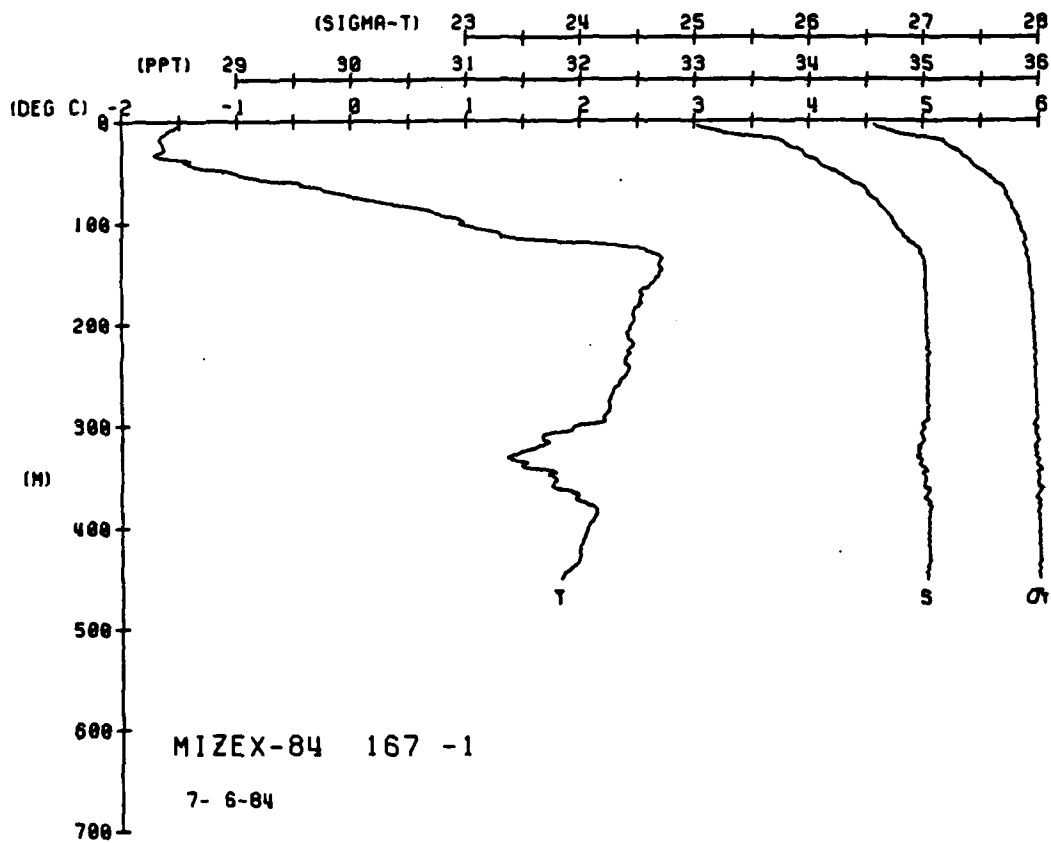


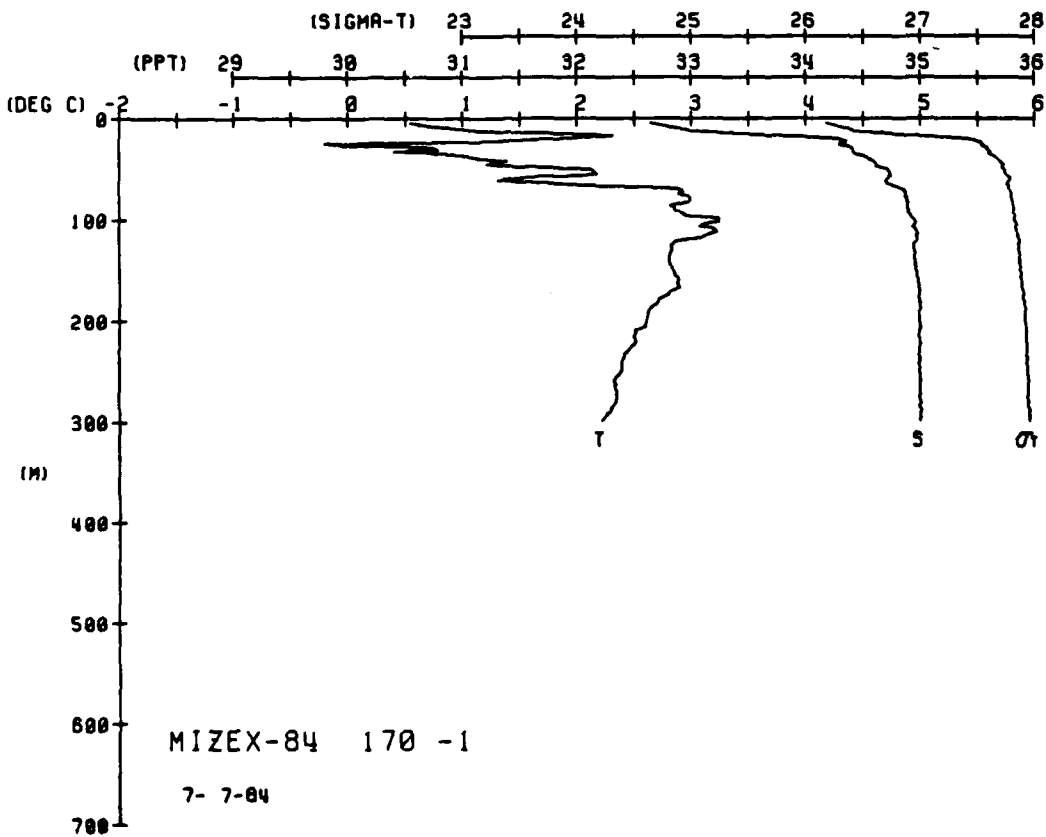
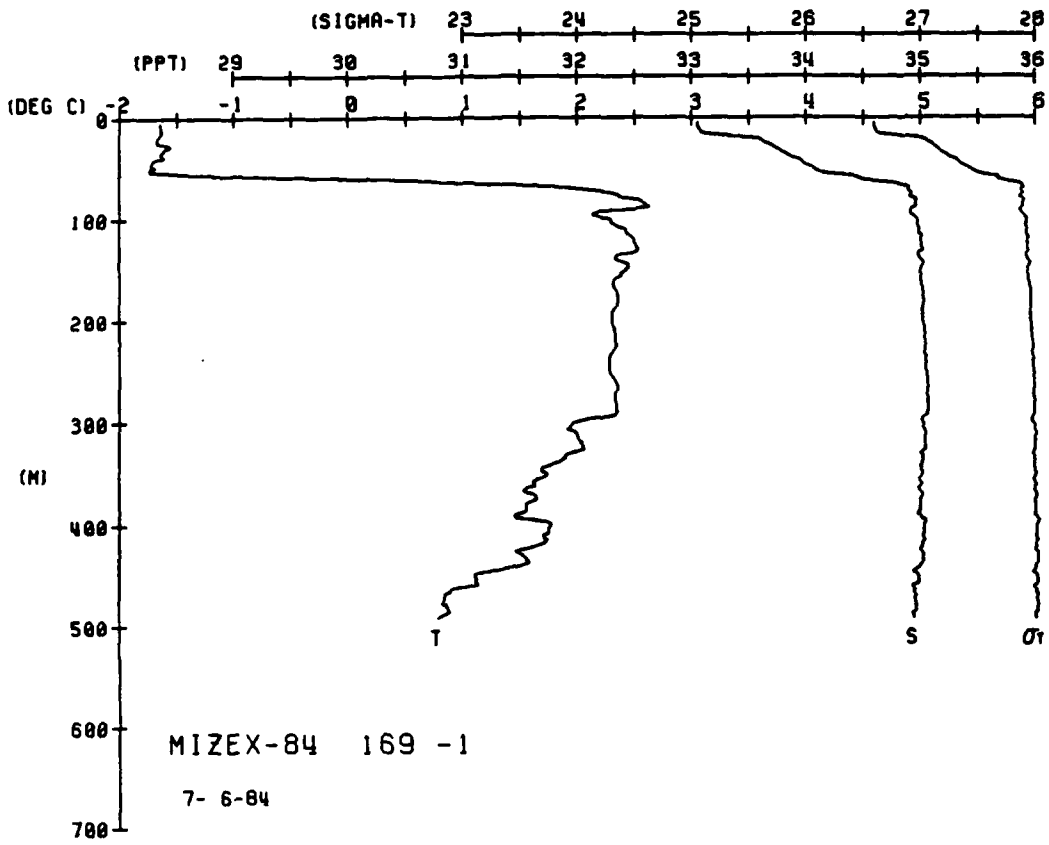


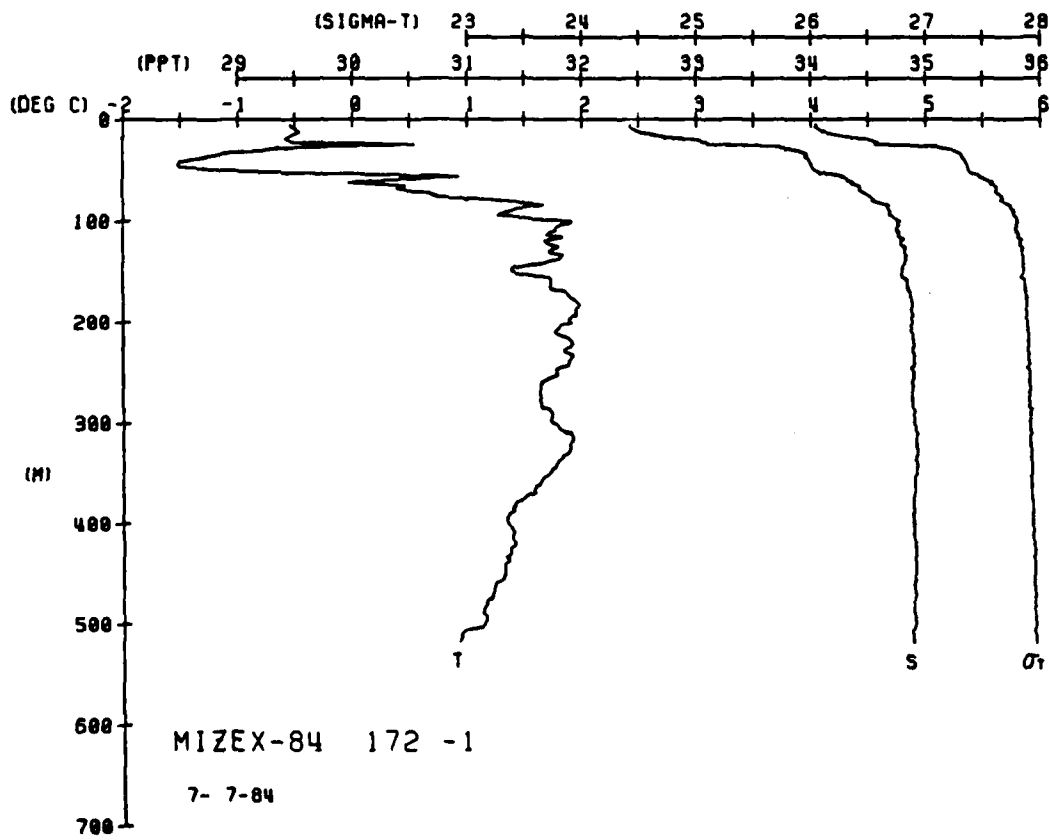
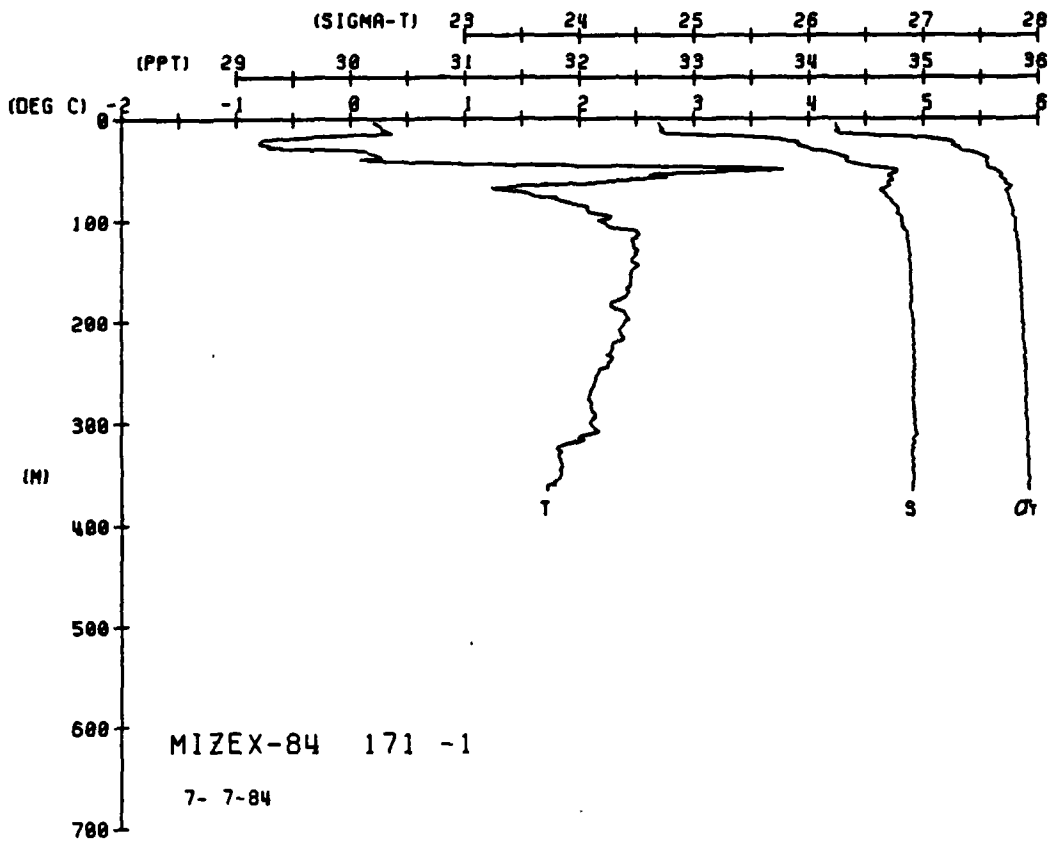


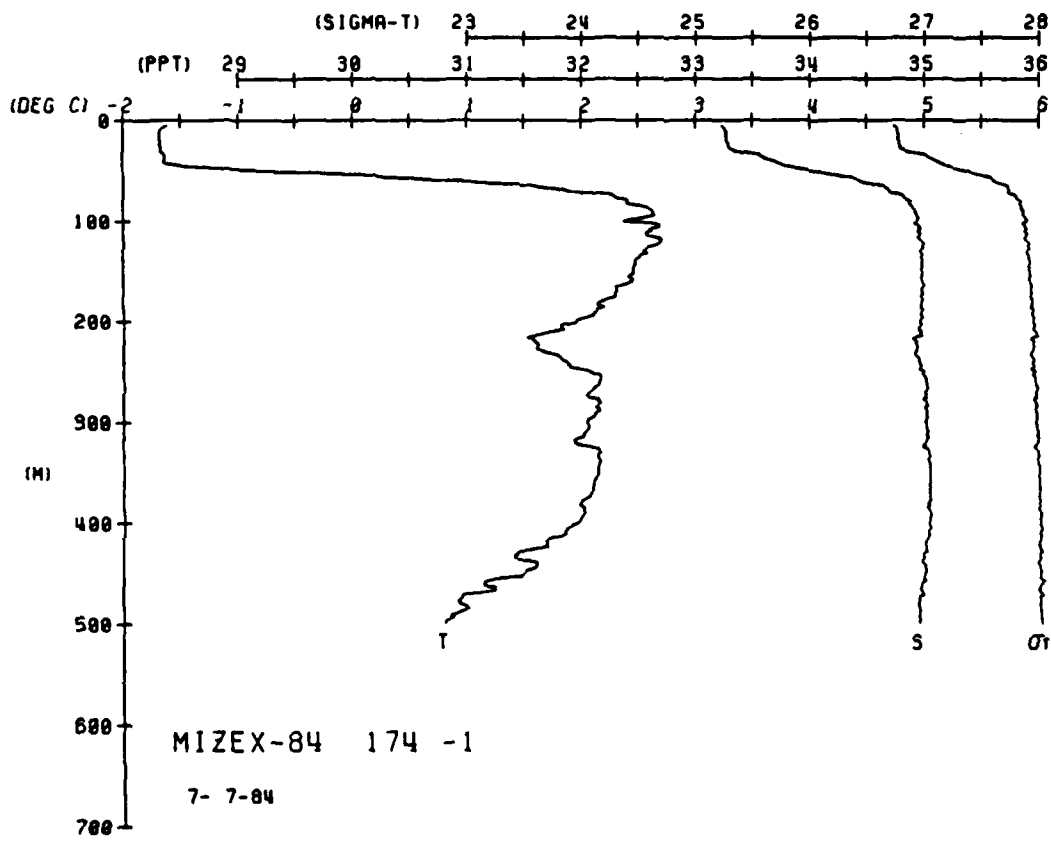
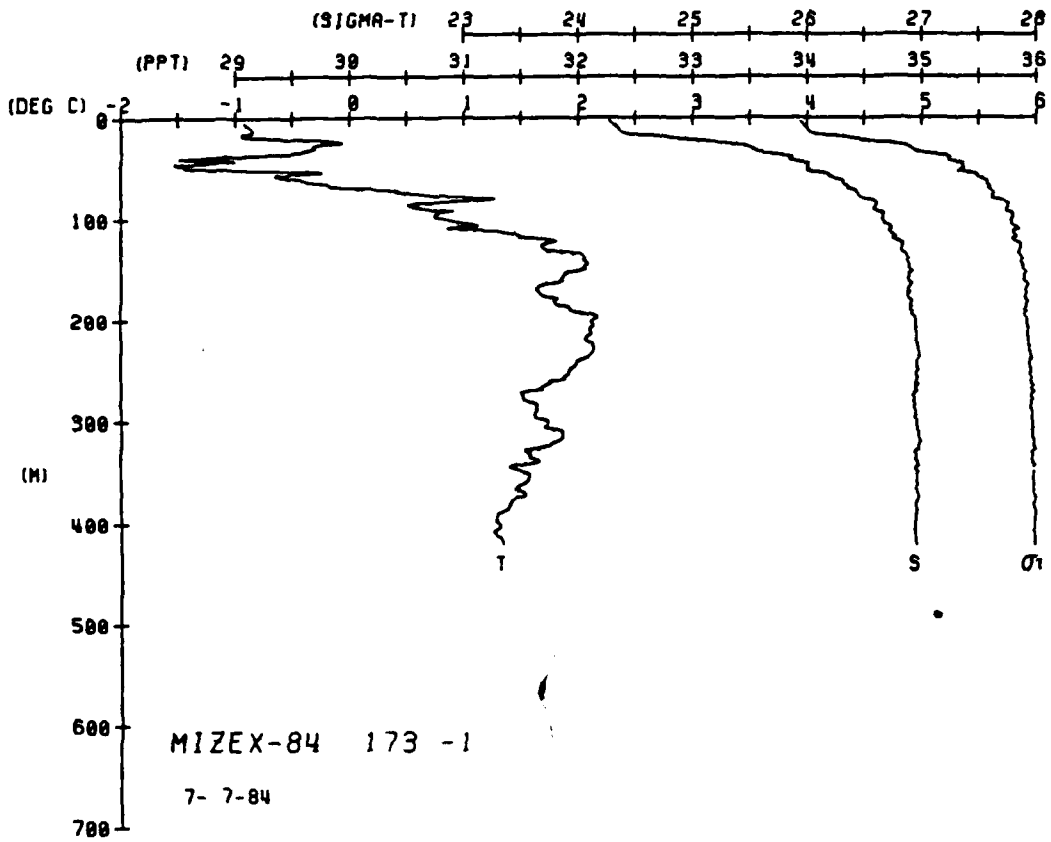
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MICROCOPY RESOLUTION TEST CHART

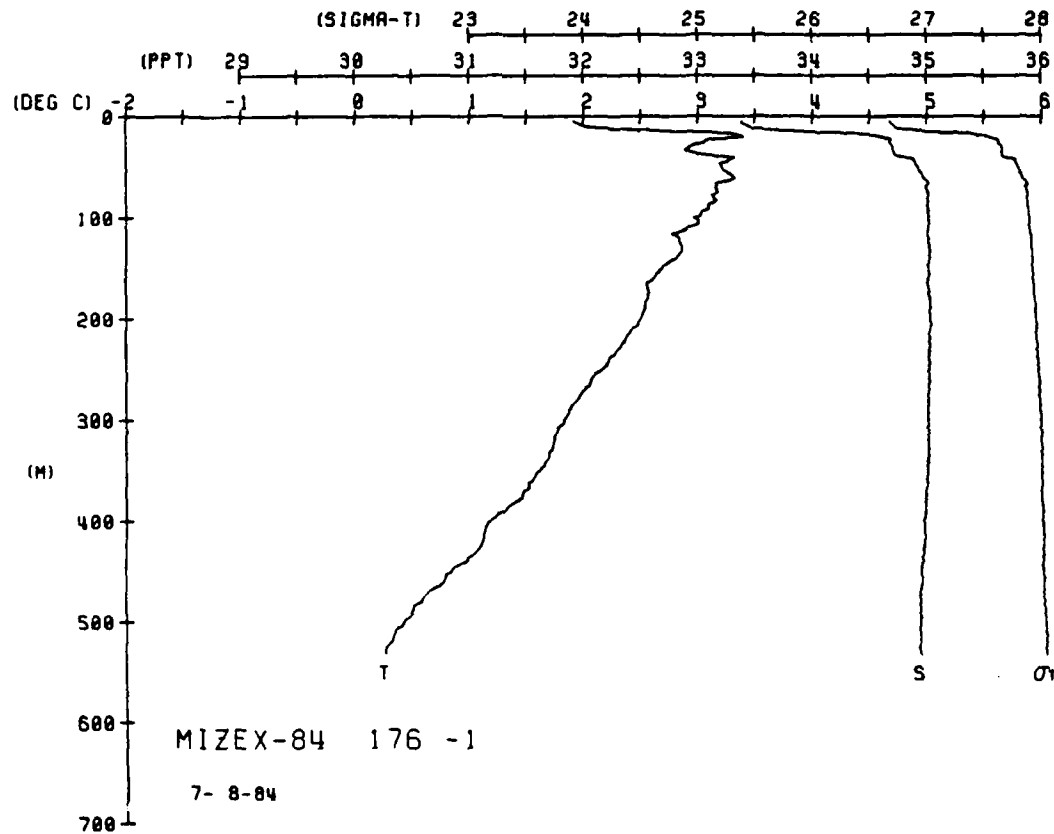
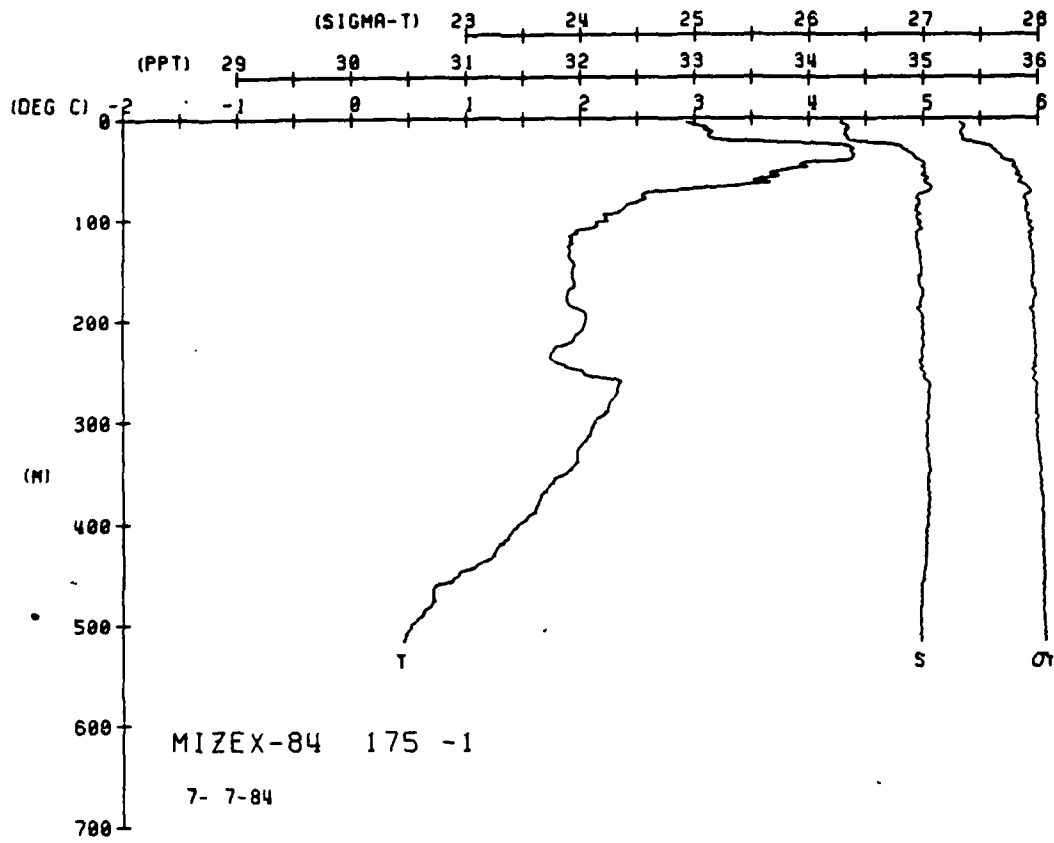


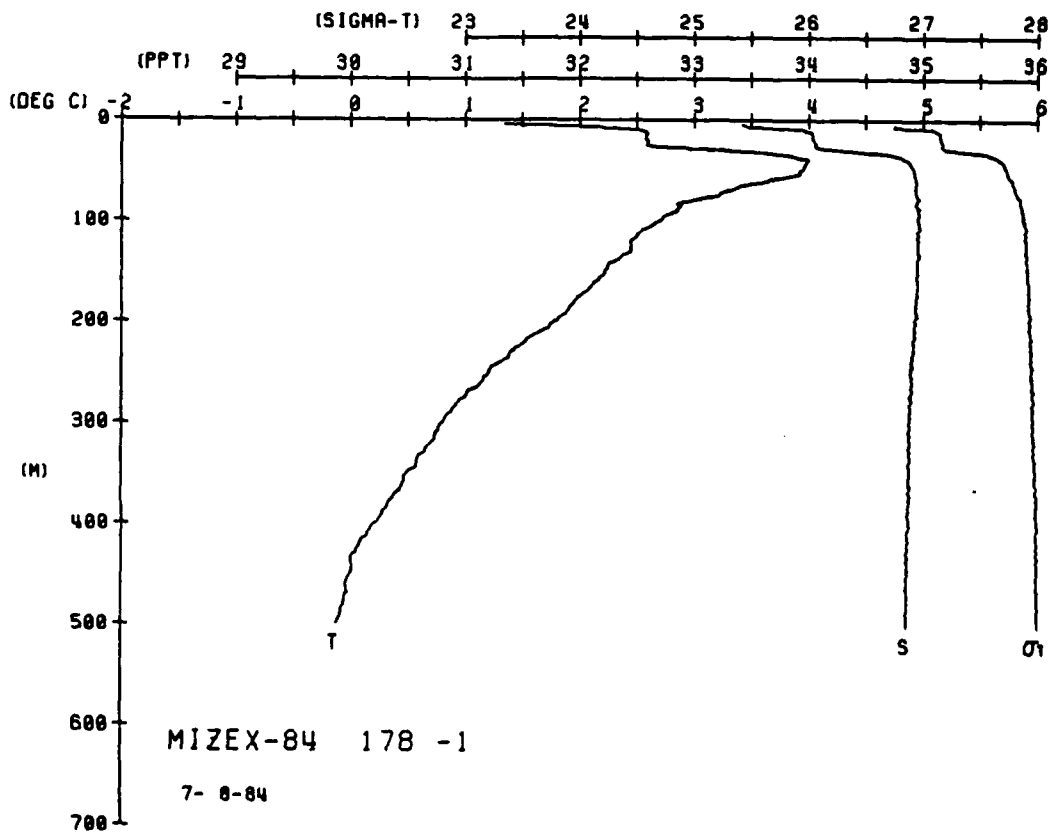
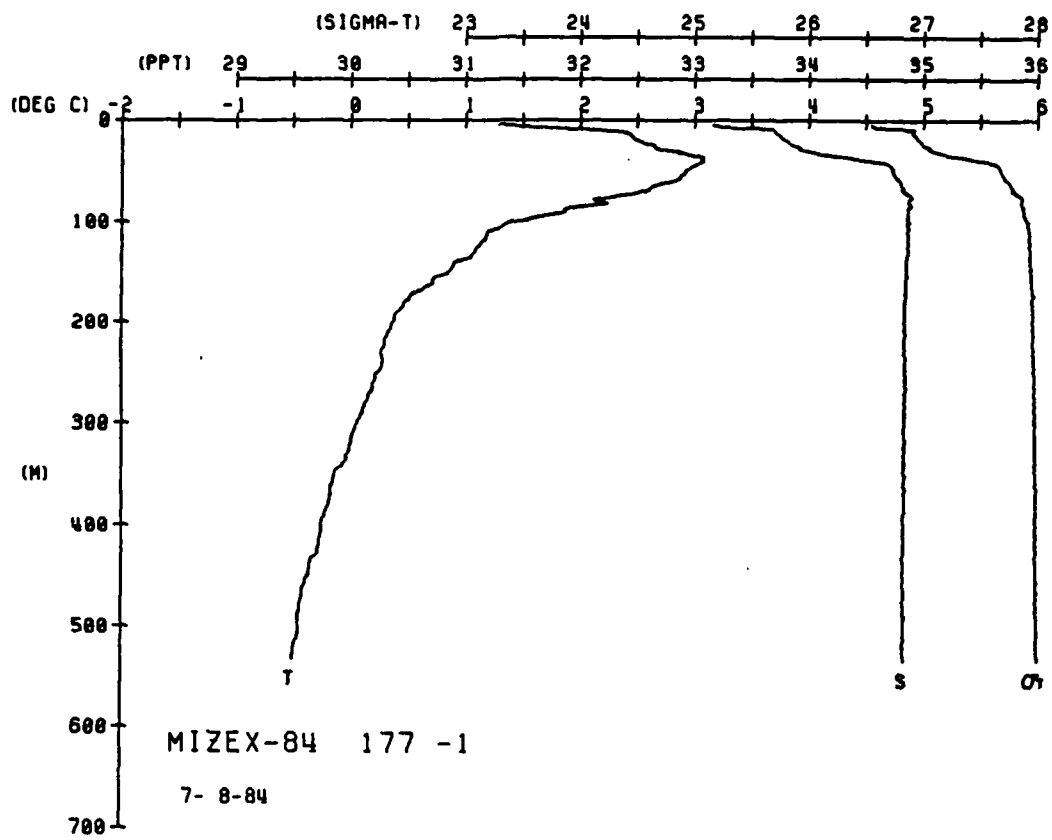


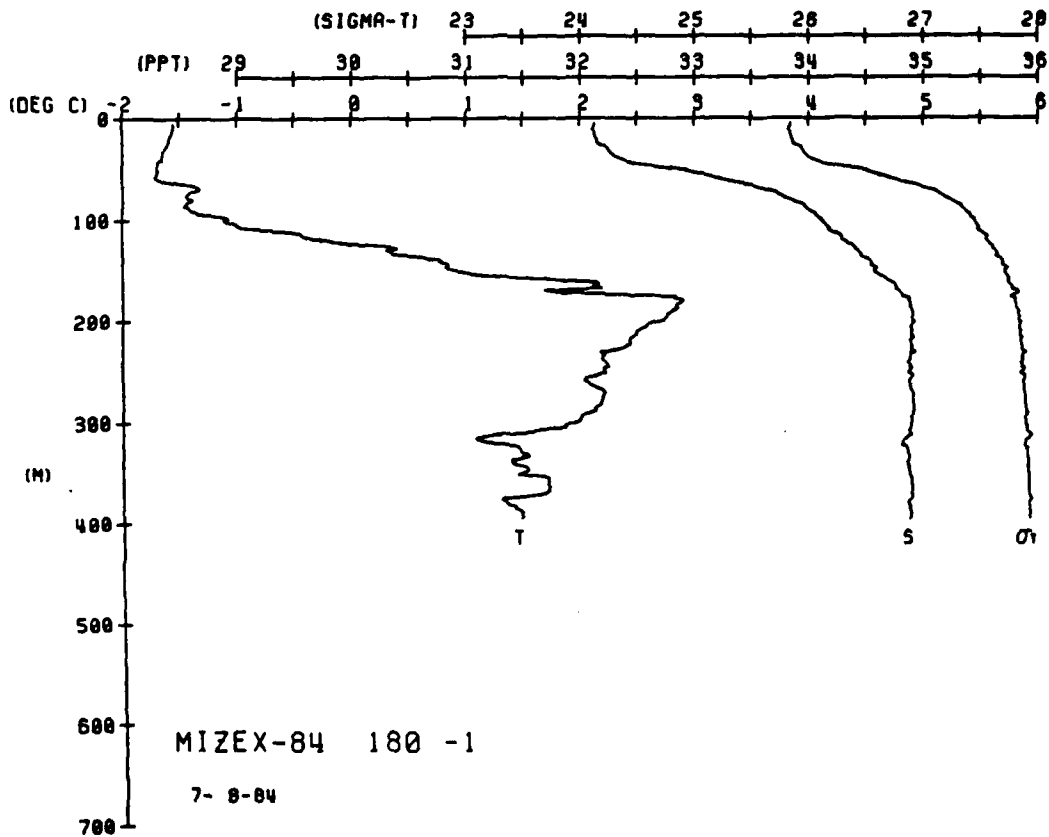
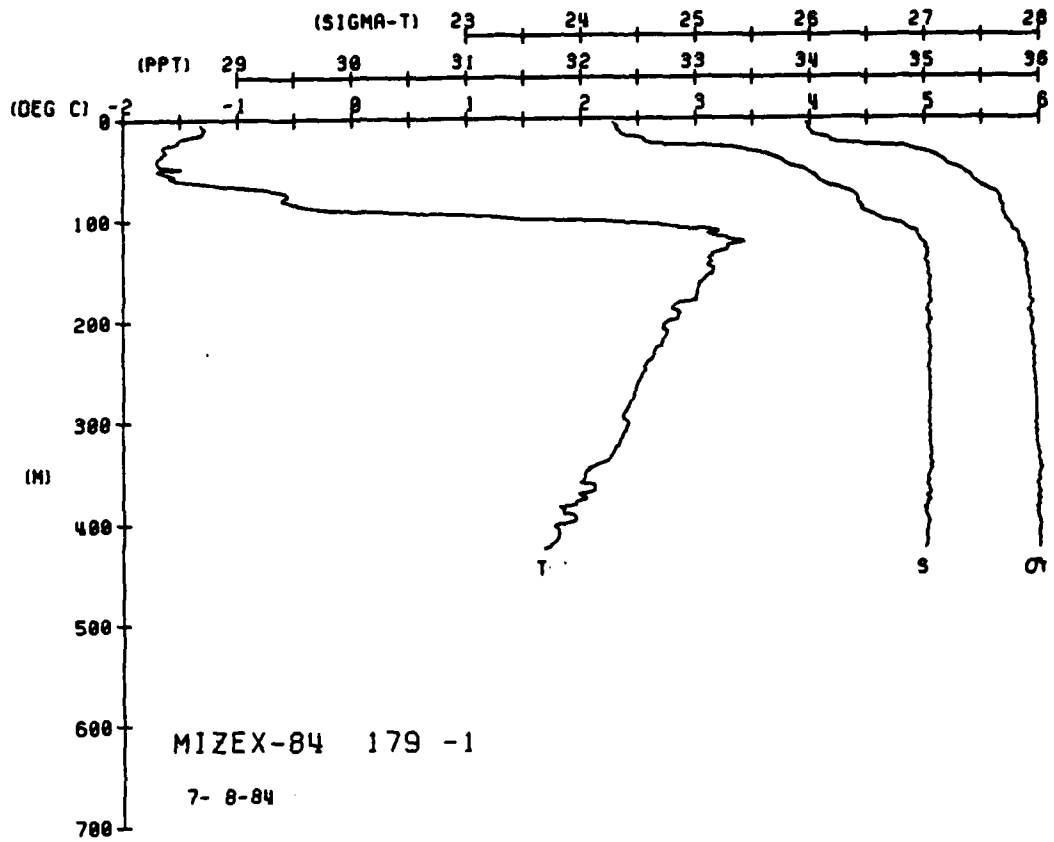


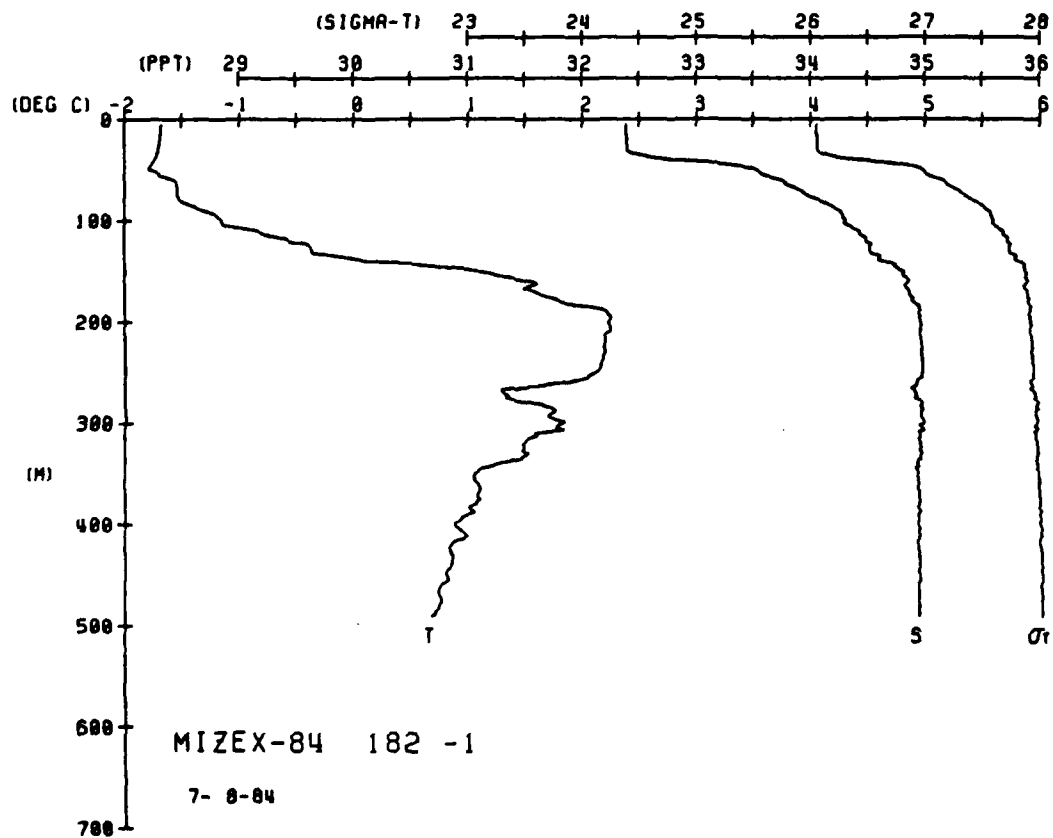
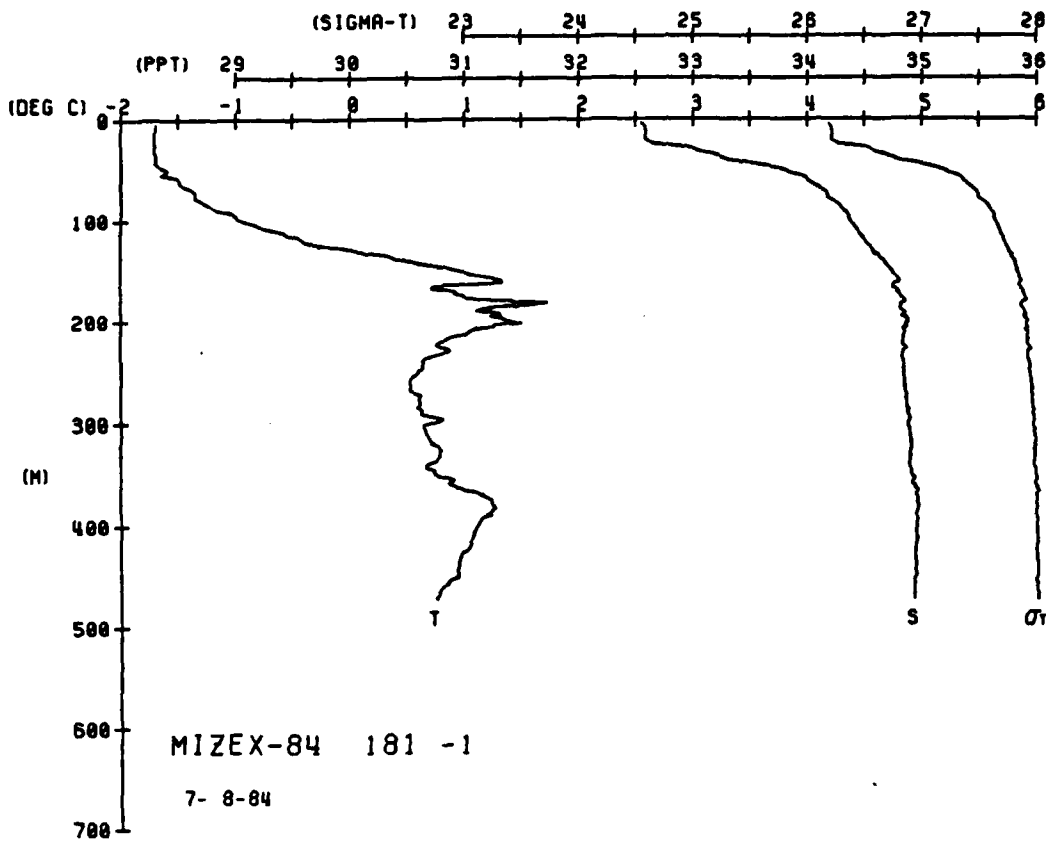


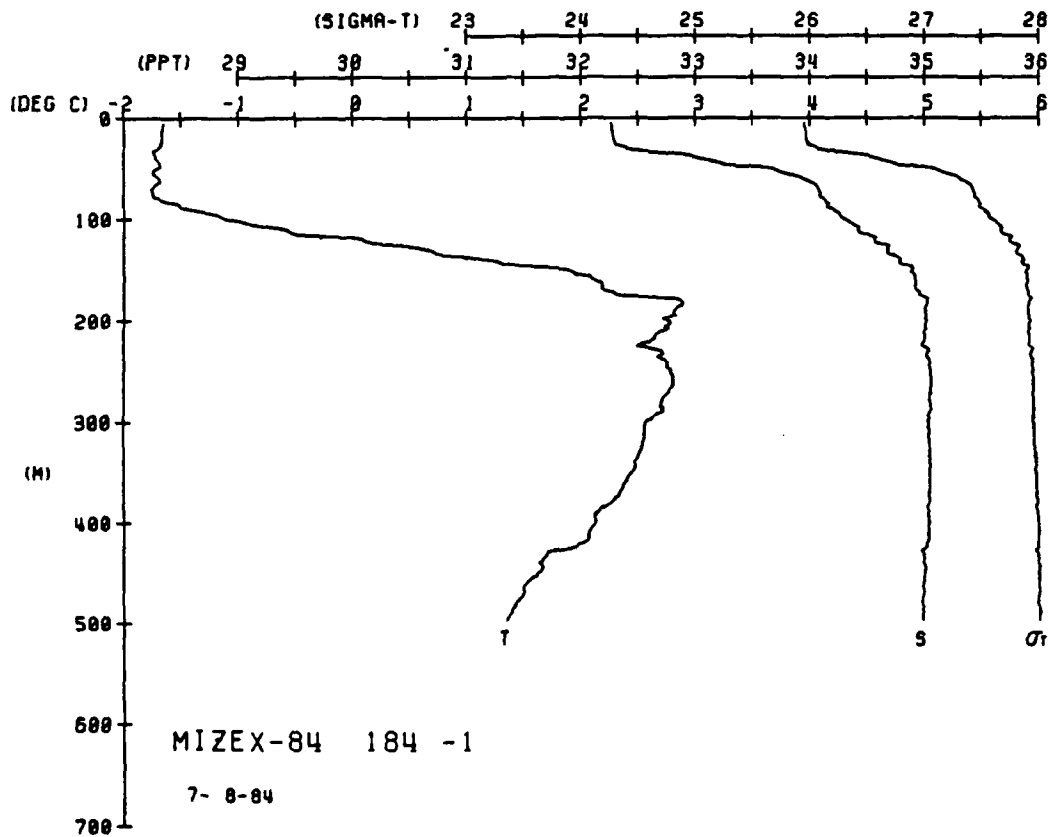
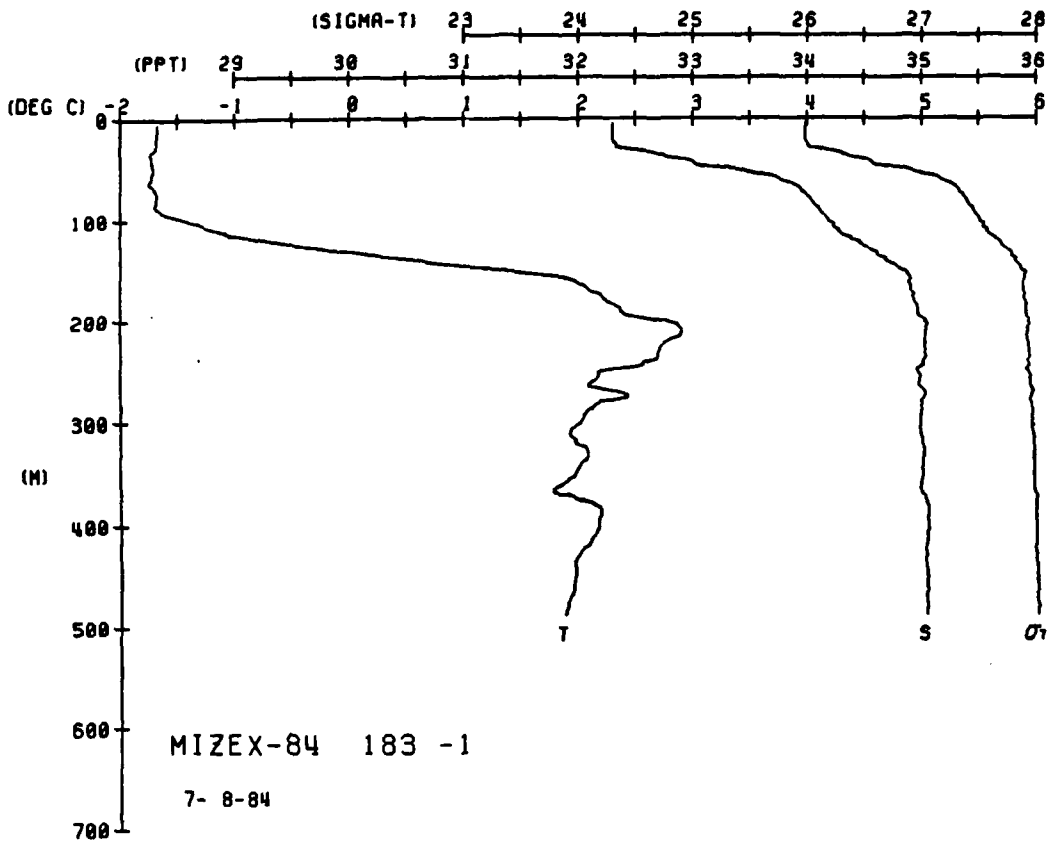


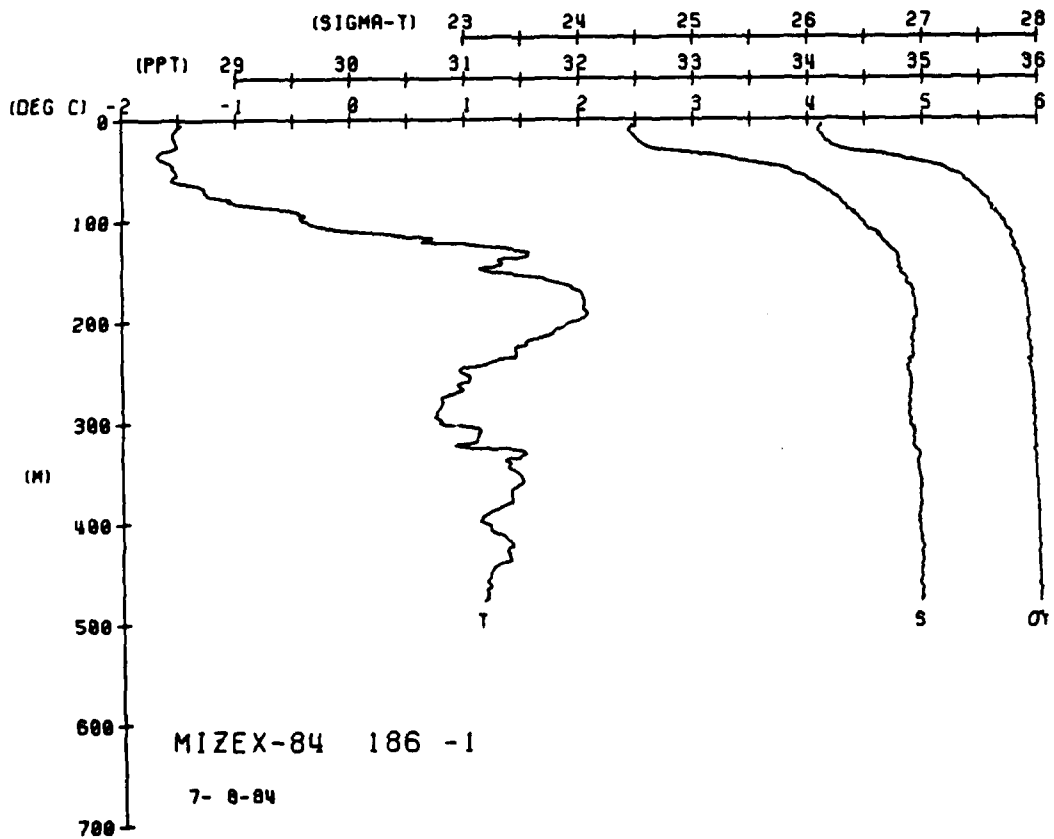
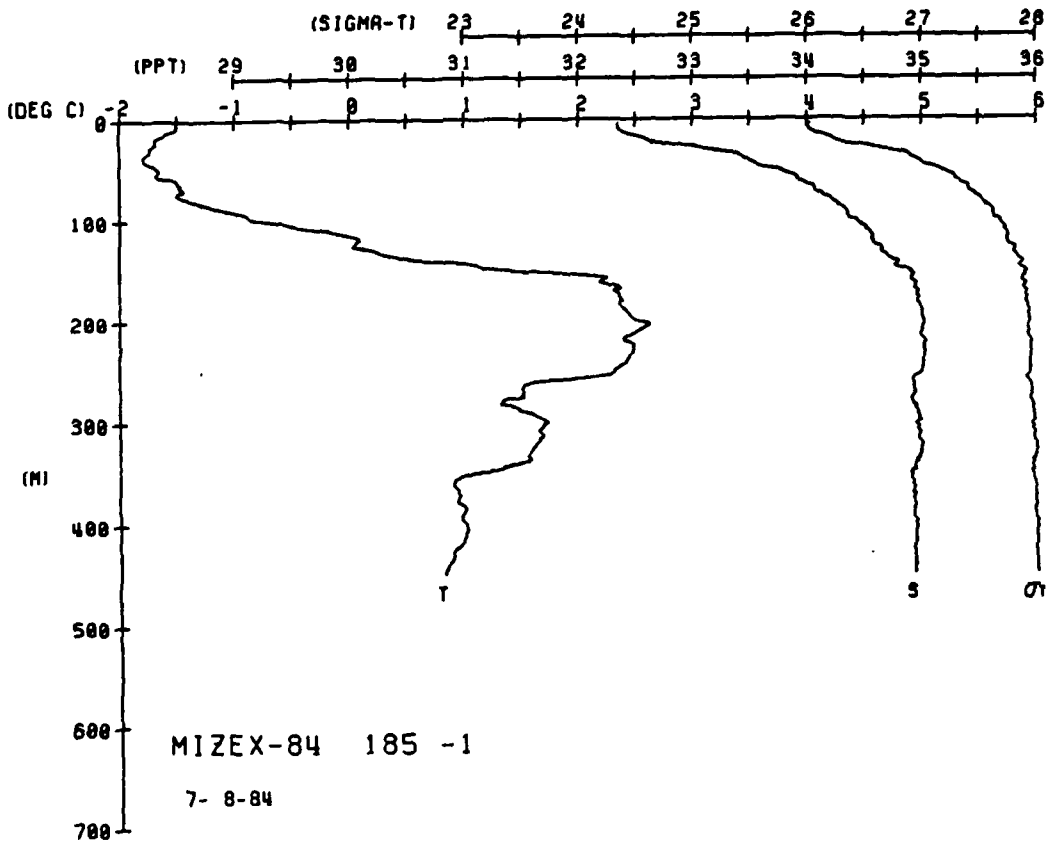










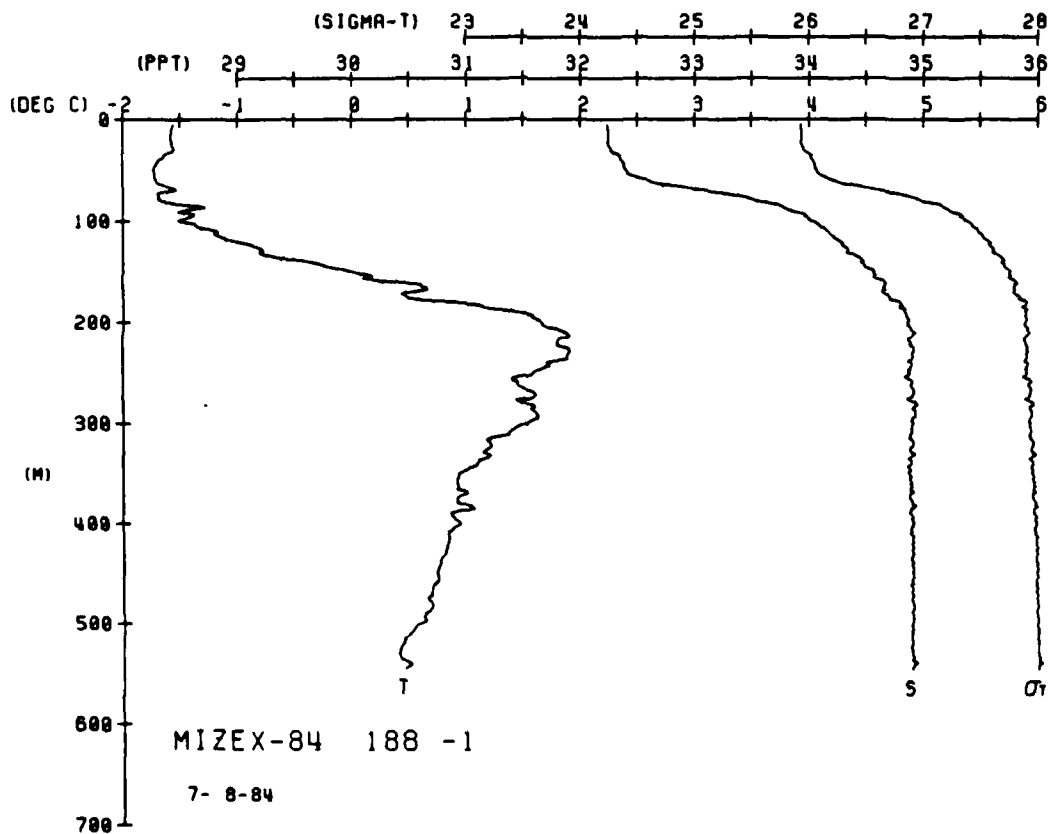
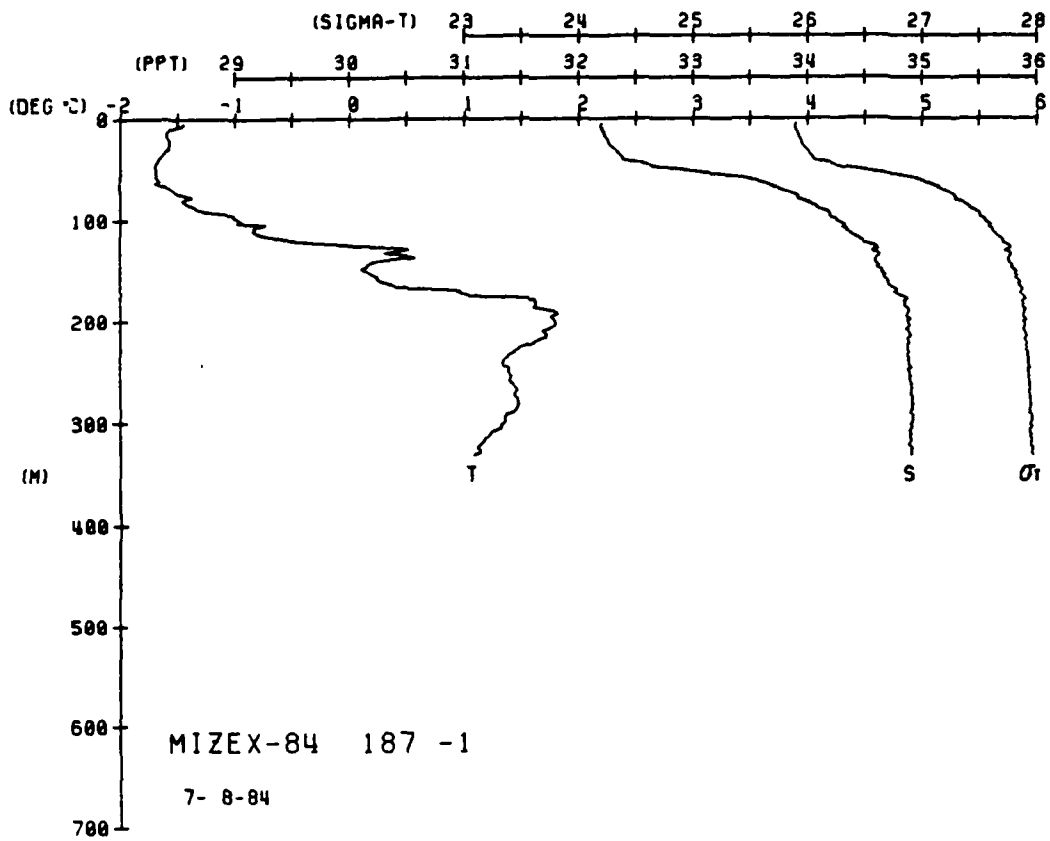


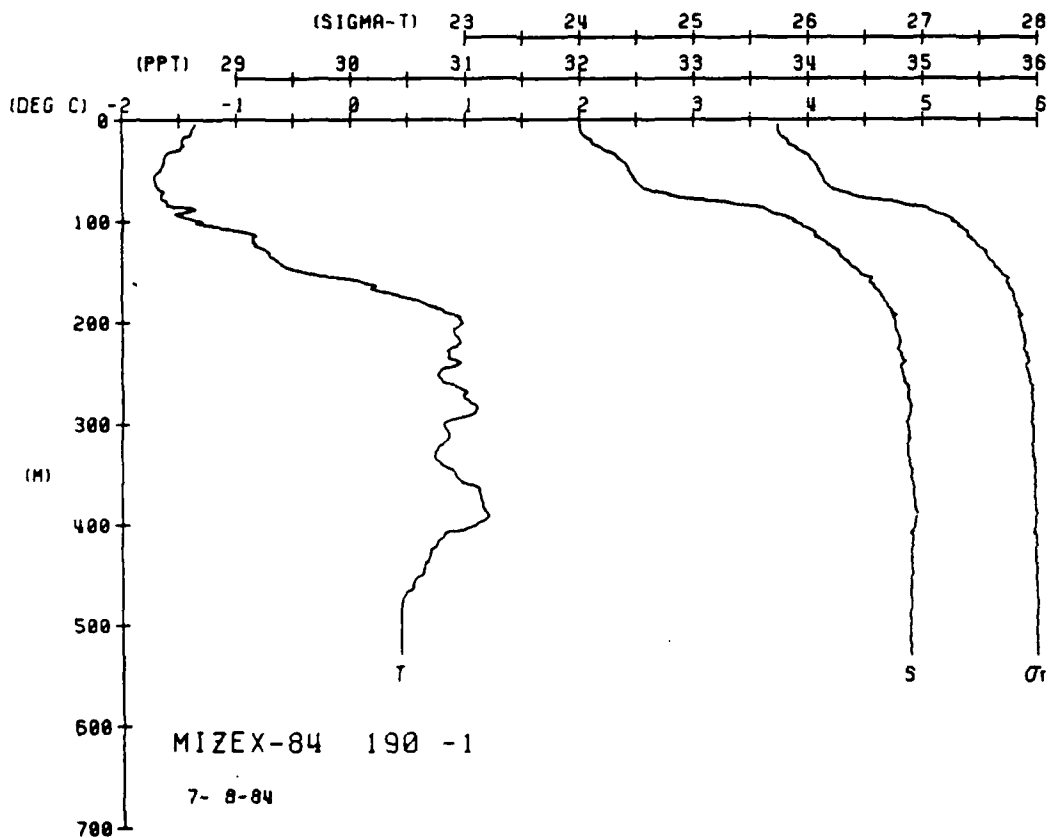
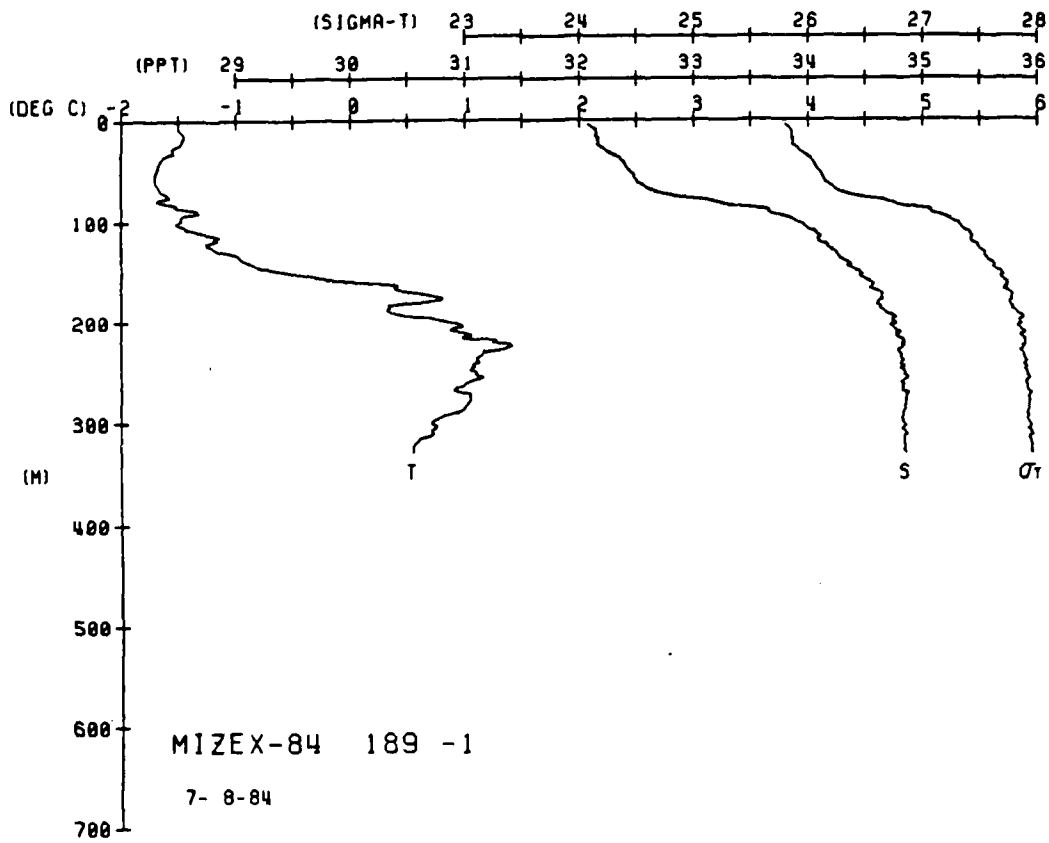
MIXEX-84 STATION 187(1) CTU 8/JUL/1984 2025 GMT CODE = 1
LAT = 78.5217N LNC = 4.0733W LTR = 300 UCR = 300
AIR TEMP = 0.0 BARUM = 0.0 WIND = 0.0 SPEED = 0.0

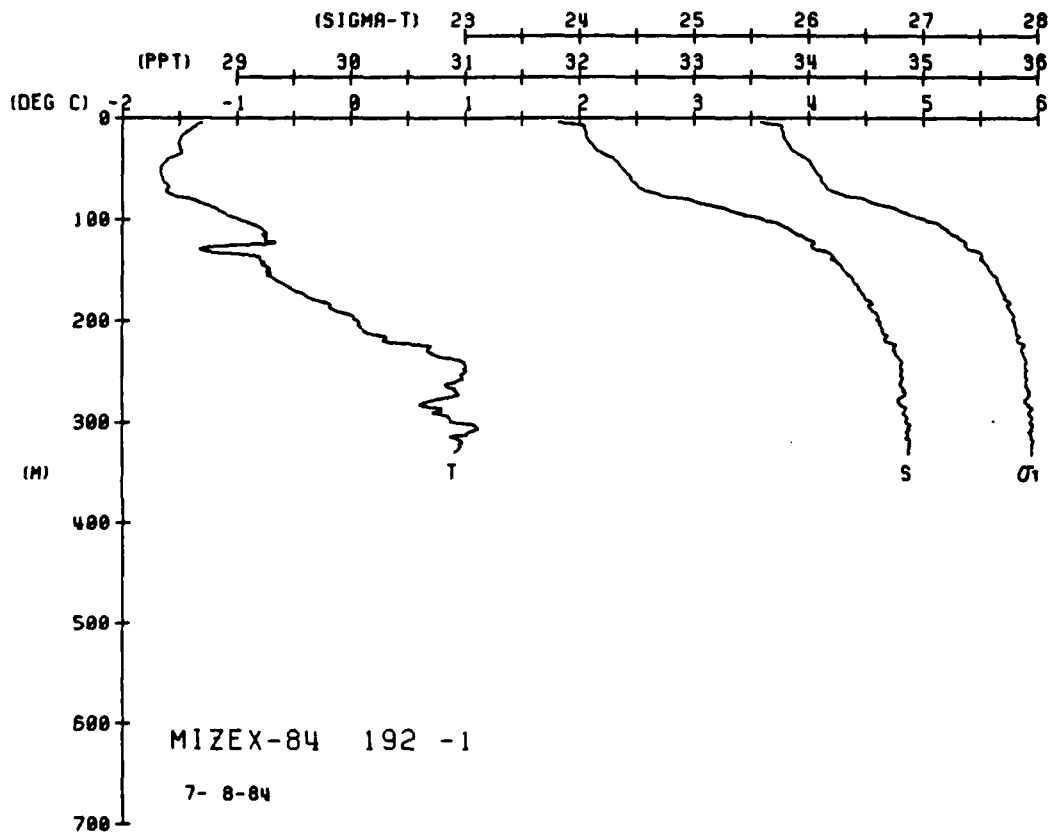
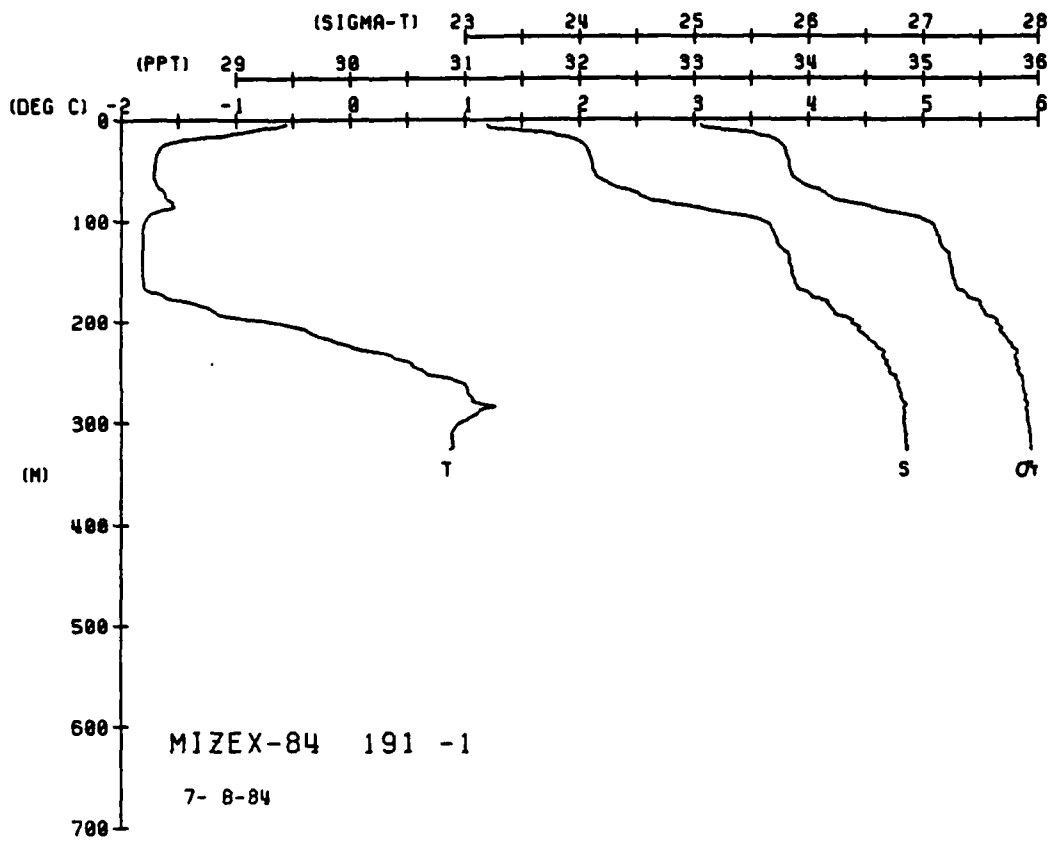
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
000	455	455	222	11	33	000	77
005	455	455	222	11	33	000	77
010	455	455	222	11	33	000	77
015	455	455	222	11	33	000	77
020	455	455	222	11	33	000	77
025	455	455	222	11	33	000	77
030	455	455	222	11	33	000	77
035	455	455	222	11	33	000	77
040	455	455	222	11	33	000	77
045	455	455	222	11	33	000	77
050	455	455	222	11	33	000	77
055	455	455	222	11	33	000	77
060	455	455	222	11	33	000	77
065	455	455	222	11	33	000	77
070	455	455	222	11	33	000	77
075	455	455	222	11	33	000	77
080	455	455	222	11	33	000	77
085	455	455	222	11	33	000	77
090	455	455	222	11	33	000	77
095	455	455	222	11	33	000	77
100	455	455	222	11	33	000	77
105	455	455	222	11	33	000	77
110	455	455	222	11	33	000	77
115	455	455	222	11	33	000	77
120	455	455	222	11	33	000	77
125	455	455	222	11	33	000	77
130	455	455	222	11	33	000	77
135	455	455	222	11	33	000	77
140	455	455	222	11	33	000	77
145	455	455	222	11	33	000	77
150	455	455	222	11	33	000	77
155	455	455	222	11	33	000	77
160	455	455	222	11	33	000	77
165	455	455	222	11	33	000	77
170	455	455	222	11	33	000	77
175	455	455	222	11	33	000	77
180	455	455	222	11	33	000	77
185	455	455	222	11	33	000	77
190	455	455	222	11	33	000	77
195	455	455	222	11	33	000	77
200	455	455	222	11	33	000	77

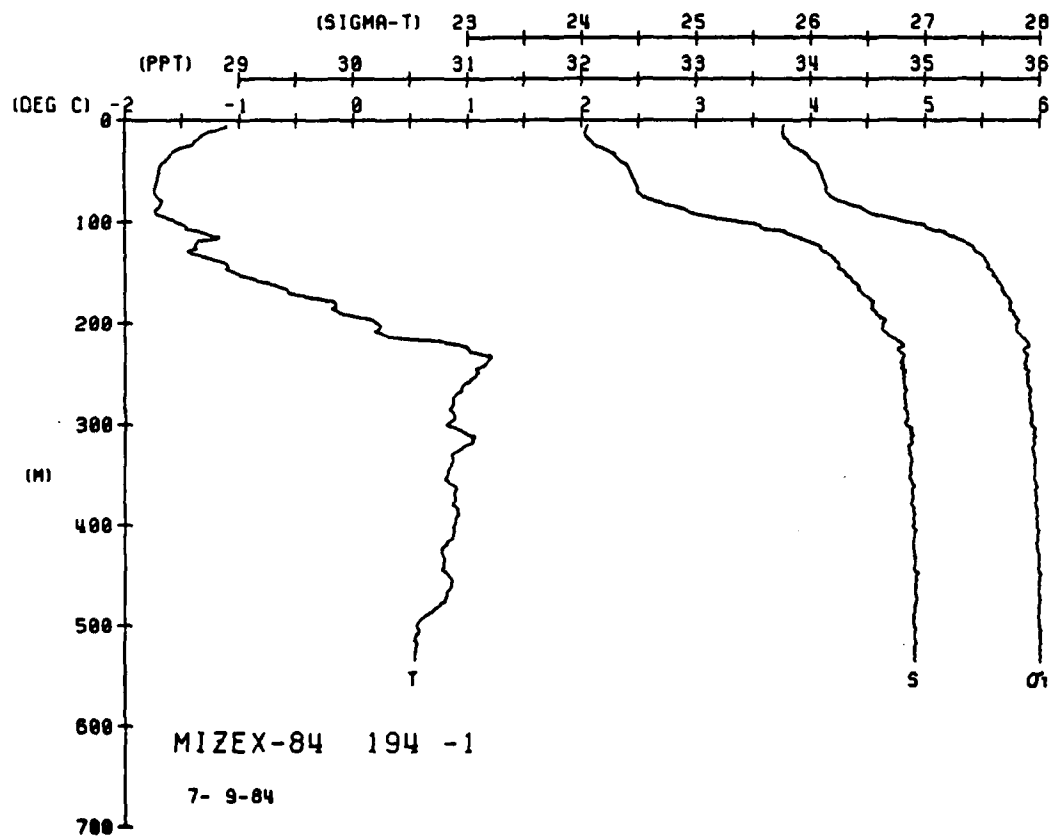
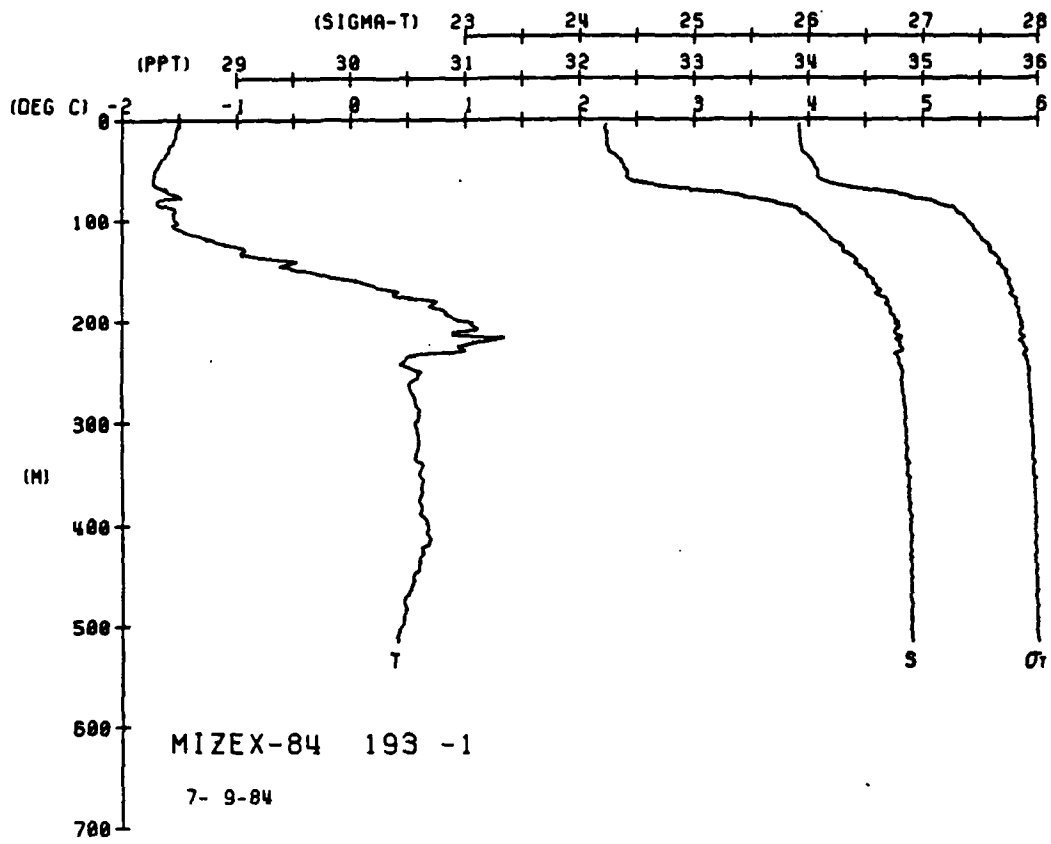
MIXEX-84 STATION 189(1) CTU 8/JUL/1984 2101 GMT CODE = 1
LAT = 78.9200N LNC = 4.6767W LTR = 300 UCR = 300
AIR TEMP = 0.0 BARUM = 0.0 WIND = 0.0 SPEED = 0.0

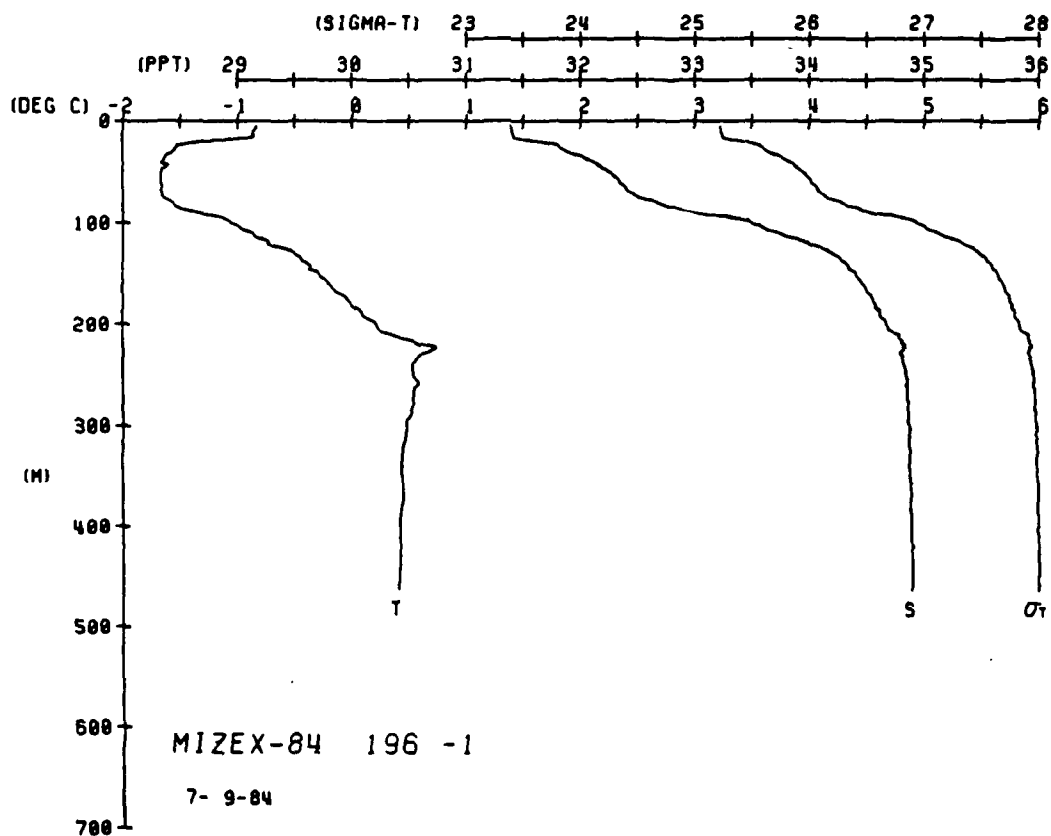
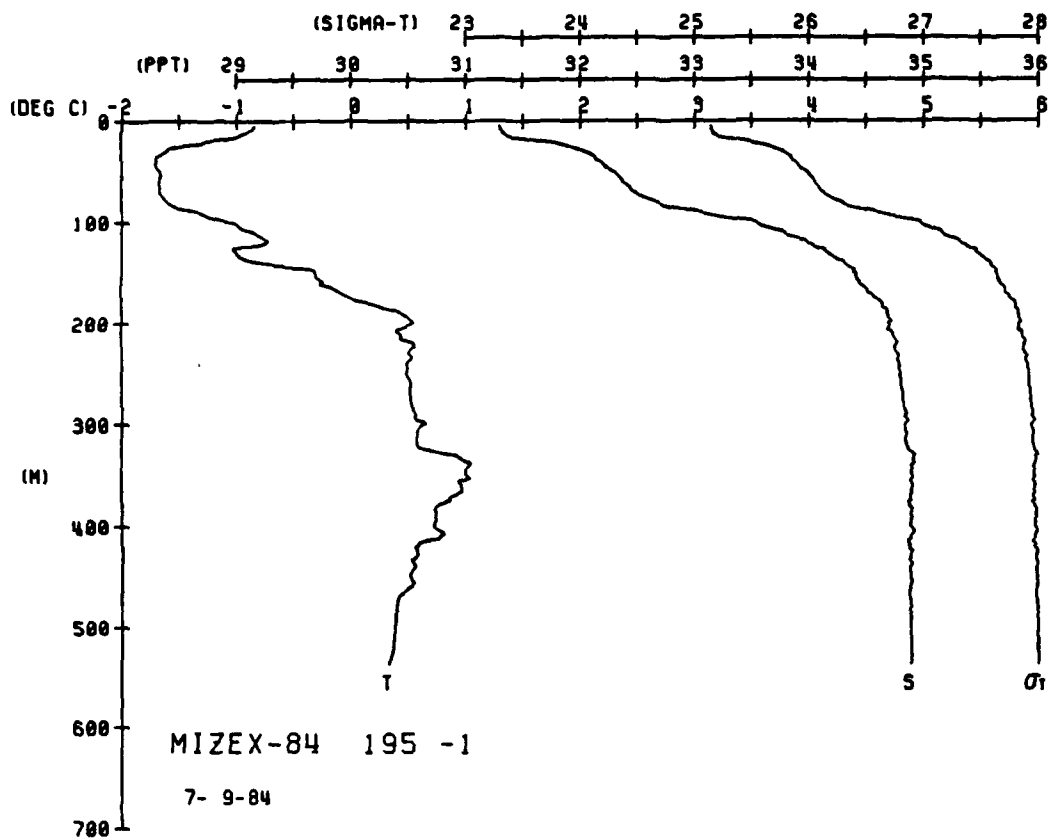
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
000	422	422	222	11	11	000	88
005	422	422	222	11	11	000	88
010	422	422	222	11	11	000	88
015	422	422	222	11	11	000	88
020	422	422	222	11	11	000	88
025	422	422	222	11	11	000	88
030	422	422	222	11	11	000	88
035	422	422	222	11	11	000	88
040	422	422	222	11	11	000	88
045	422	422	222	11	11	000	88
050	422	422	222	11	11	000	88
055	422	422	222	11	11	000	88
060	422	422	222	11	11	000	88
065	422	422	222	11	11	000	88
070	422	422	222	11	11	000	88
075	422	422	222	11	11	000	88
080	422	422	222	11	11	000	88
085	422	422	222	11	11	000	88
090	422	422	222	11	11	000	88
095	422	422	222	11	11	000	88
100	422	422	222	11	11	000	88
105	422	422	222	11	11	000	88
110	422	422	222	11	11	000	88
115	422	422	222	11	11	000	88
120	422	422	222	11	11	000	88
125	422	422	222	11	11	000	88
130	422	422	222	11	11	000	88
135	422	422	222	11	11	000	88
140	422	422	222	11	11	000	88
145	422	422	222	11	11	000	88
150	422	422	222	11	11	000	88
155	422	422	222	11	11	000	88
160	422	422	222	11	11	000	88
165	422	422	222	11	11	000	88
170	422	422	222	11	11	000	88
175	422	422	222	11	11	000	88
180	422	422	222	11	11	000	88
185	422	422	222	11	11	000	88
190	422	422	222	11	11	000	88
195	422	422	222	11	11	000	88
200	422	422	222	11	11	000	88

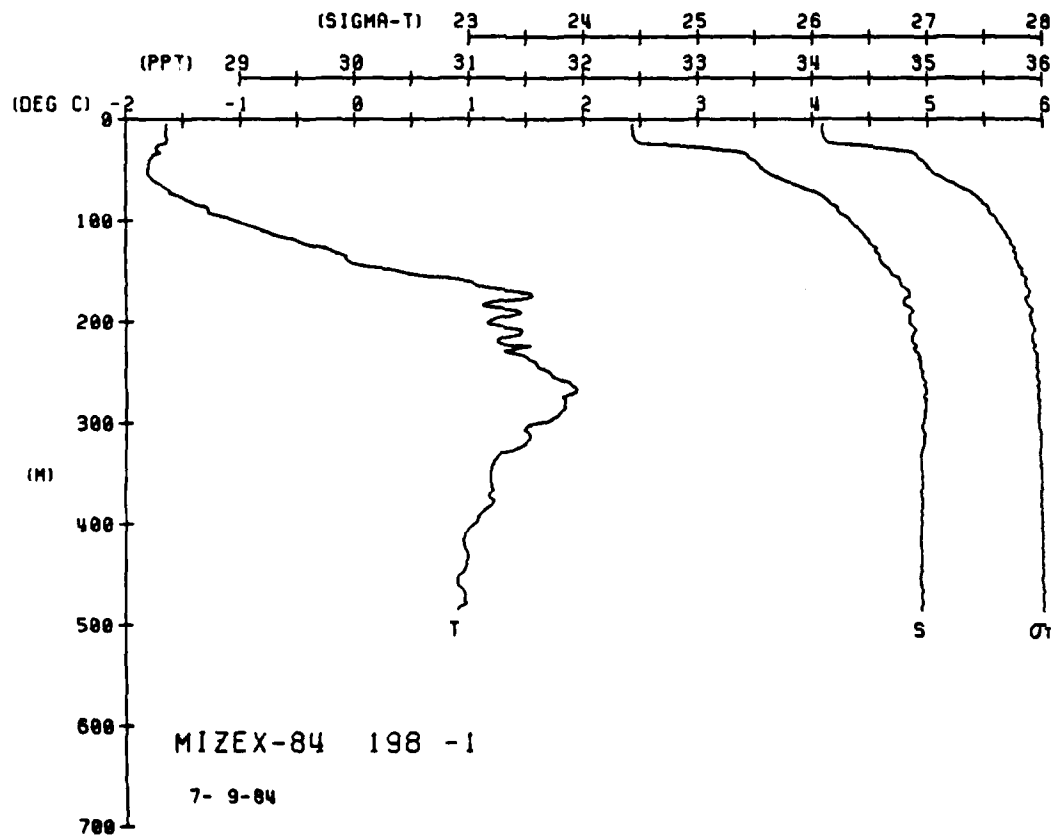
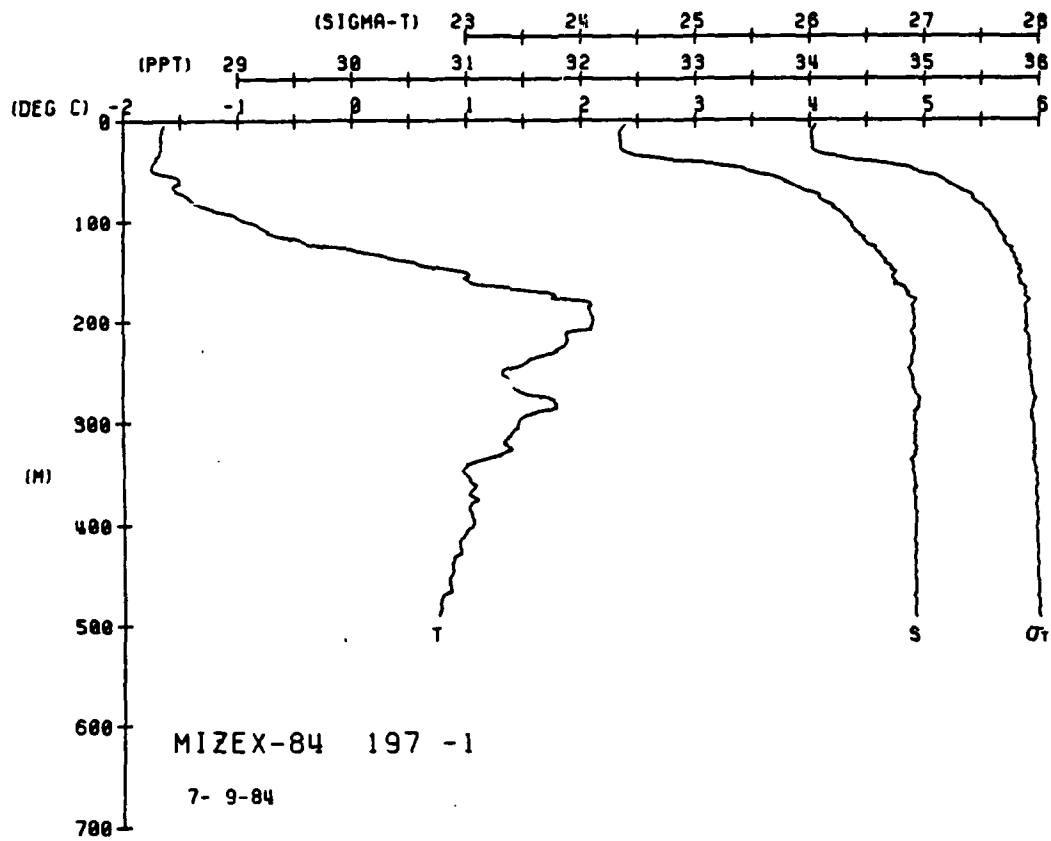


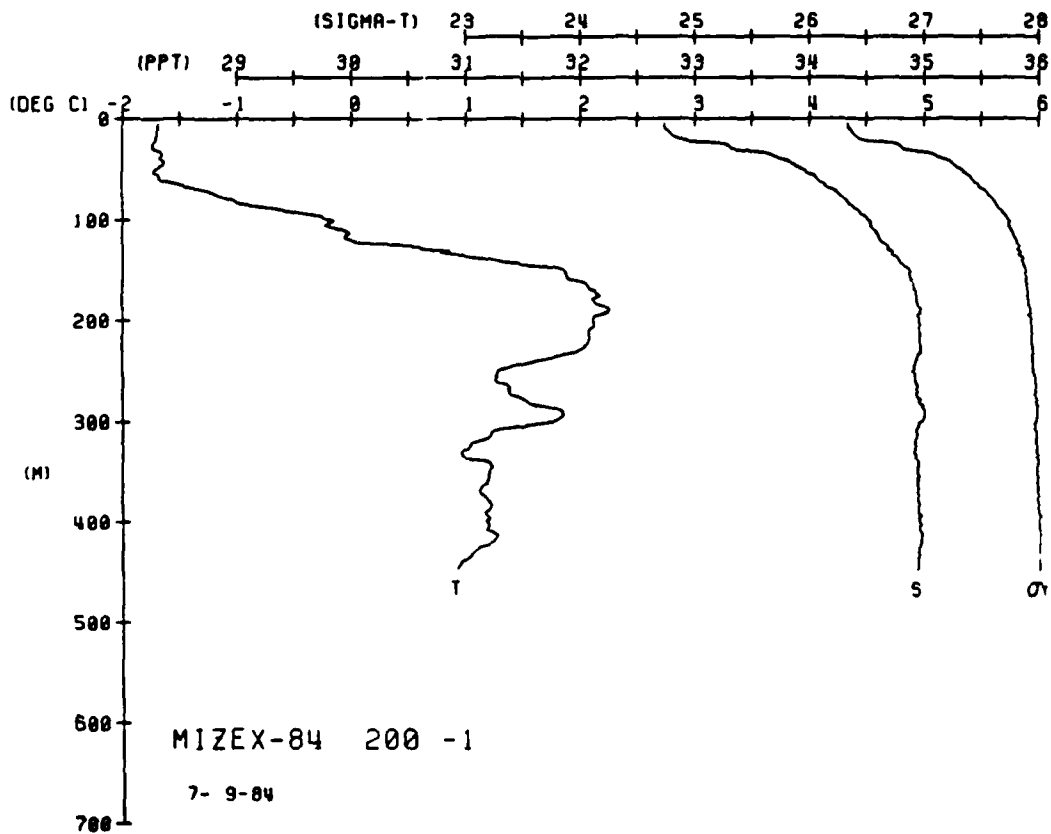
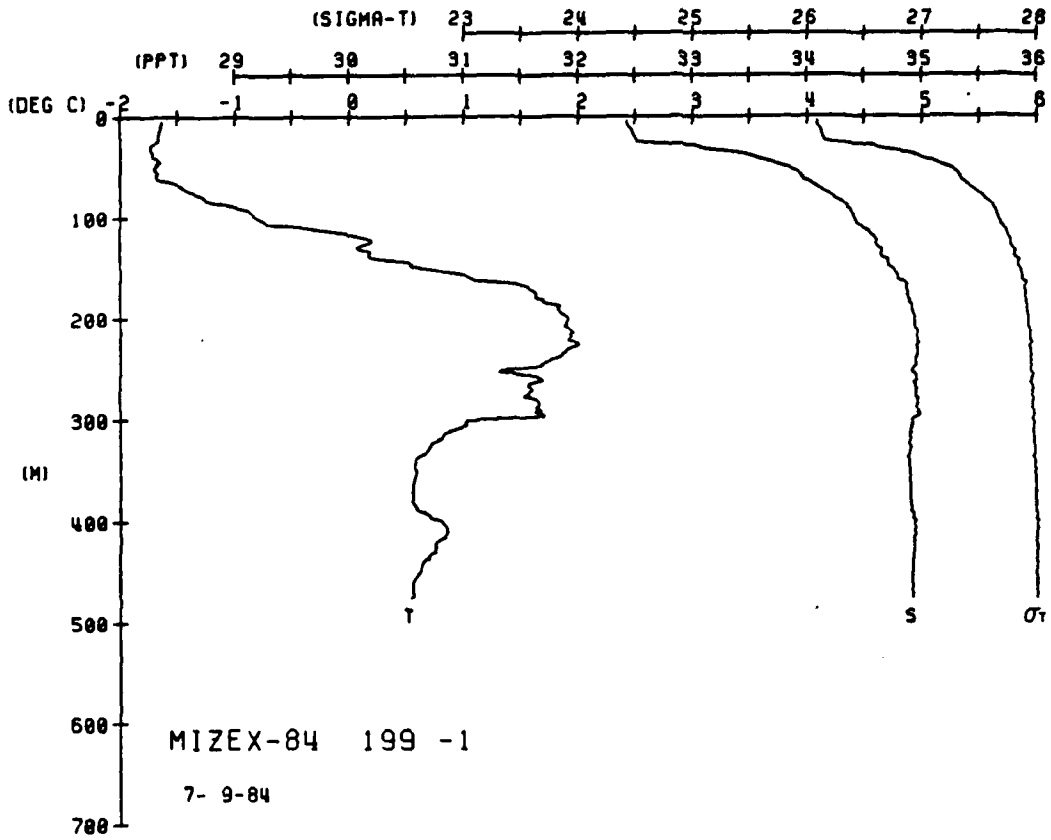


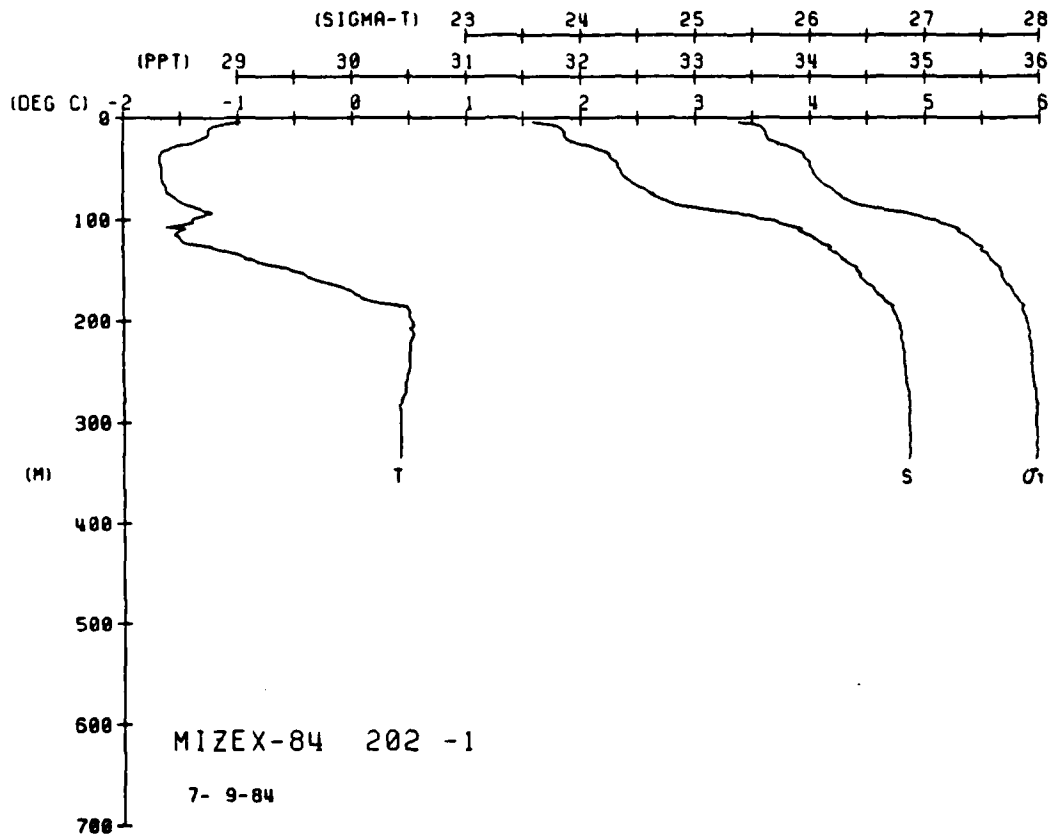
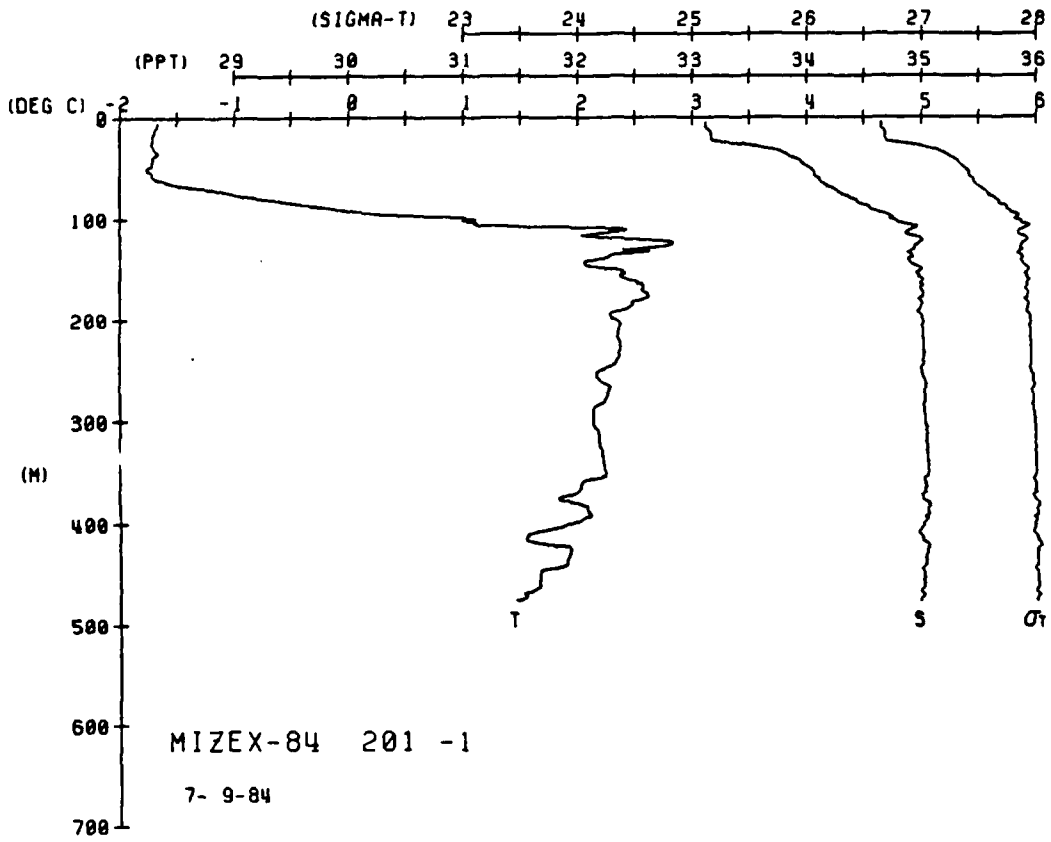


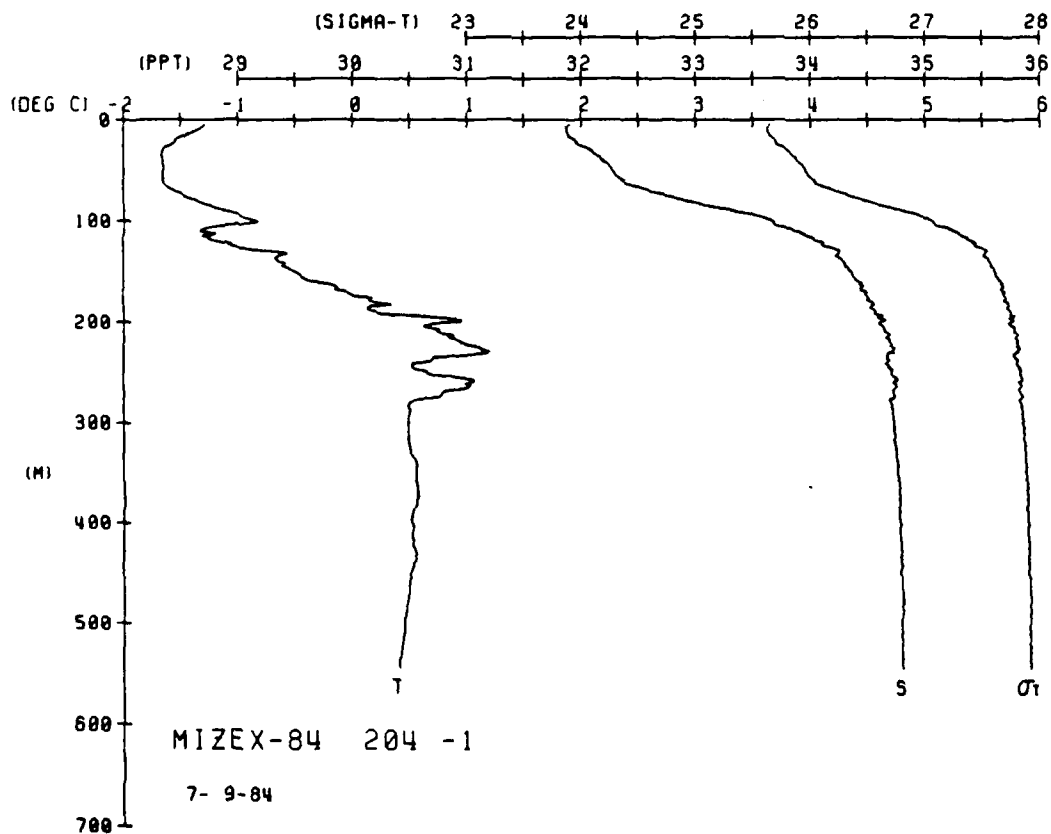
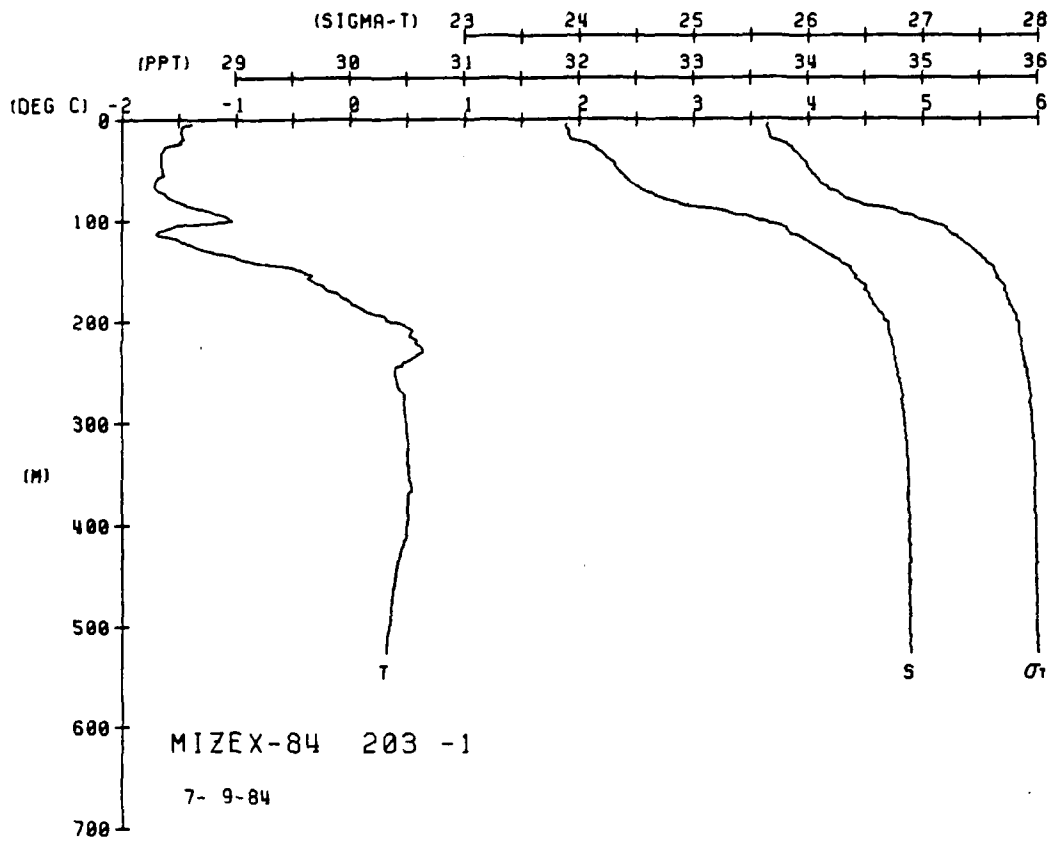


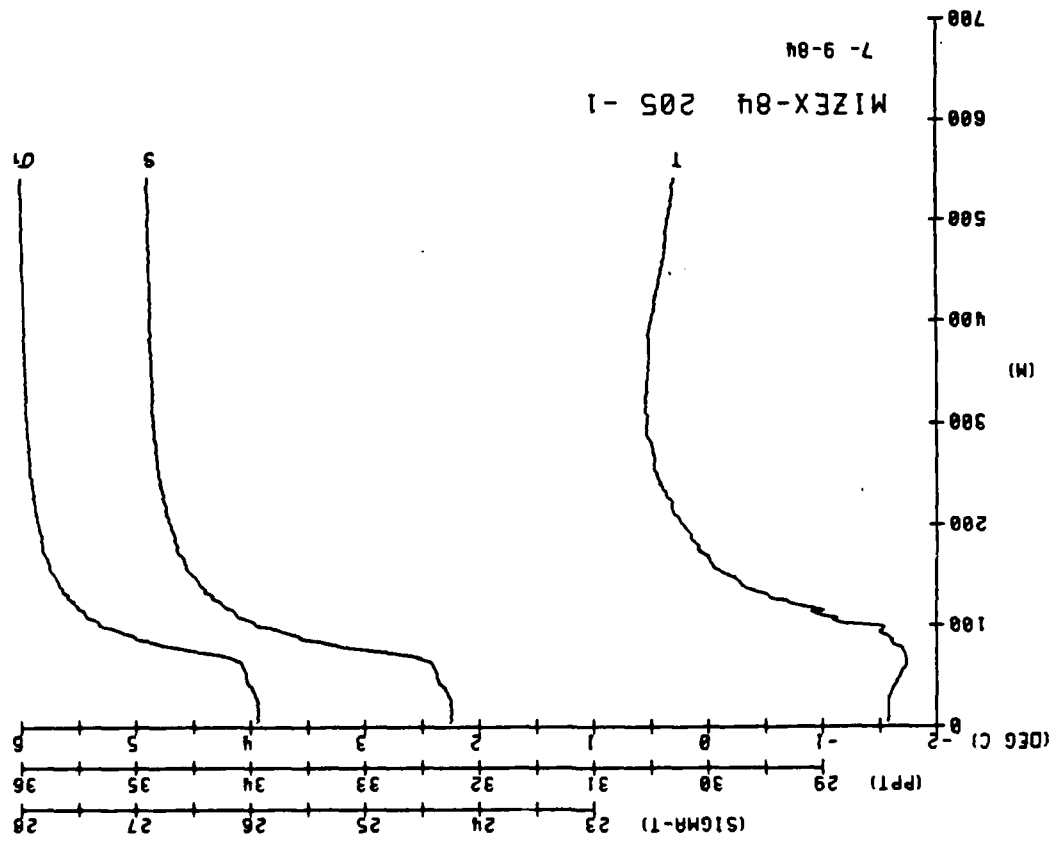
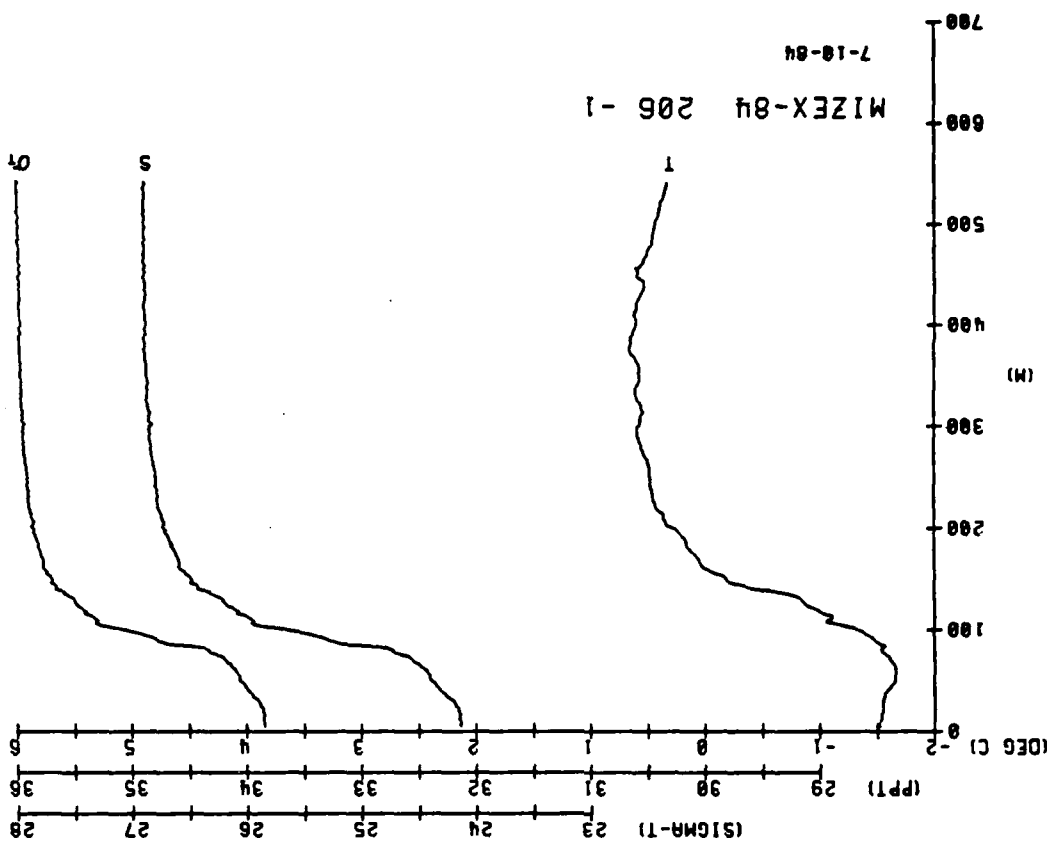


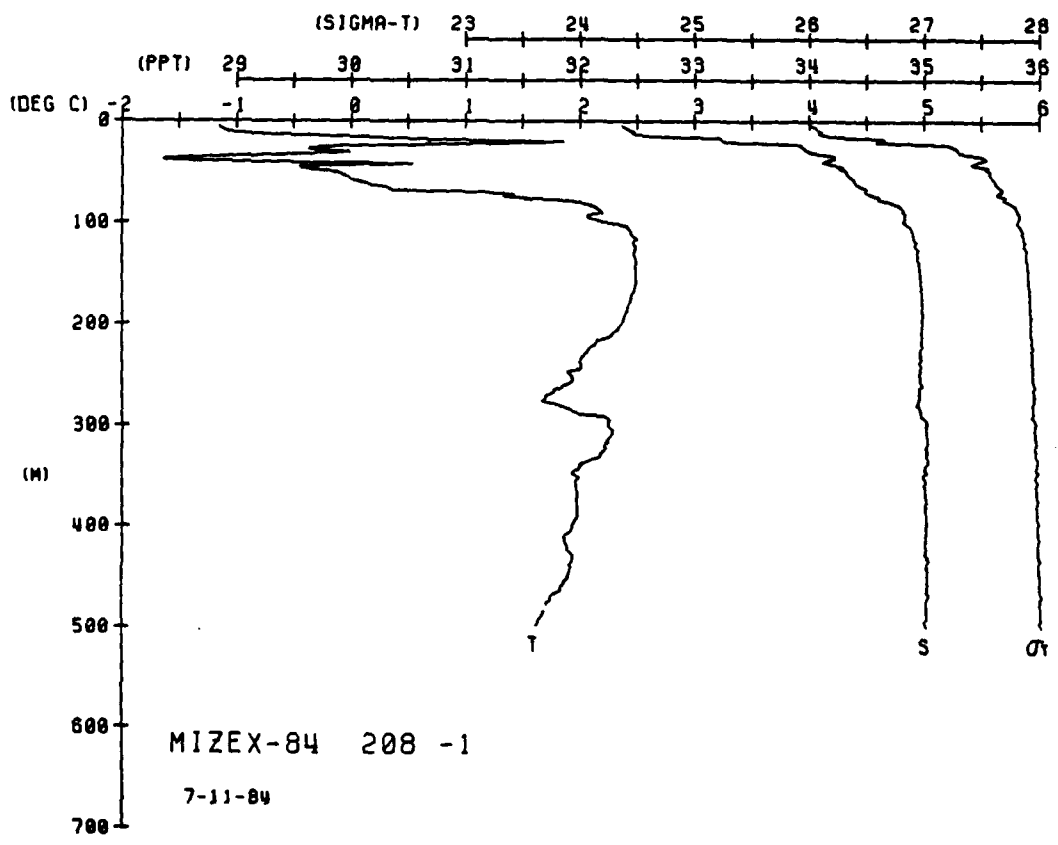
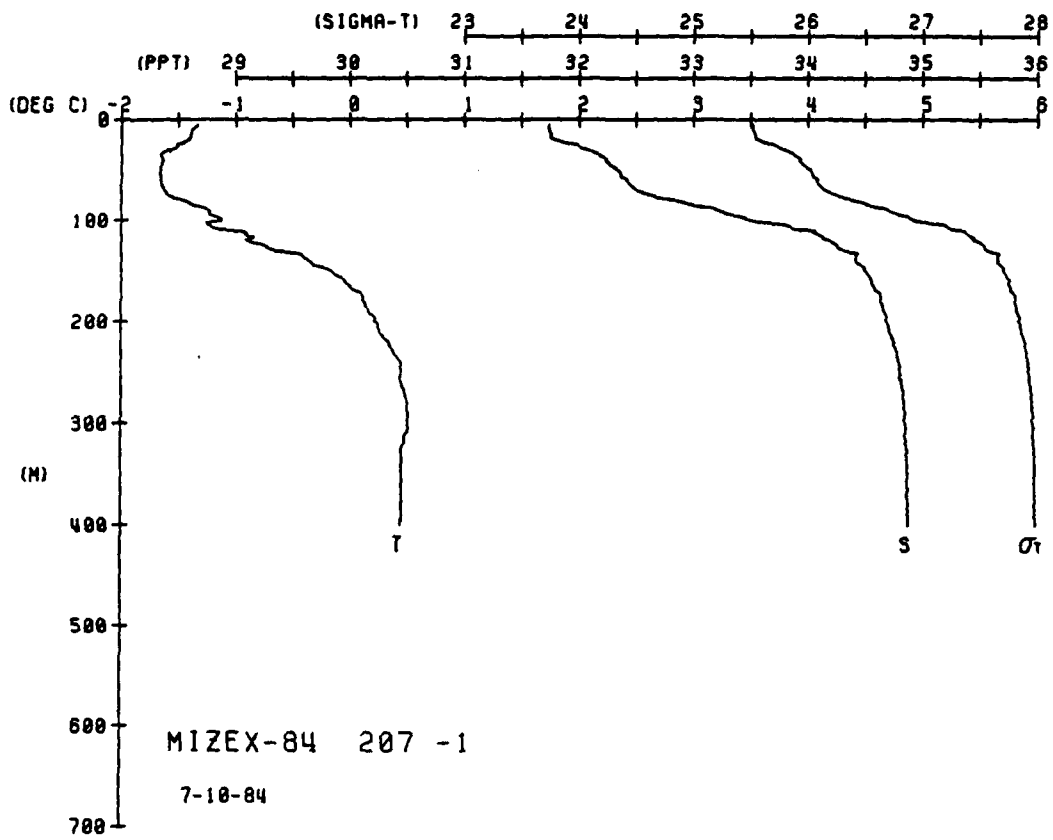


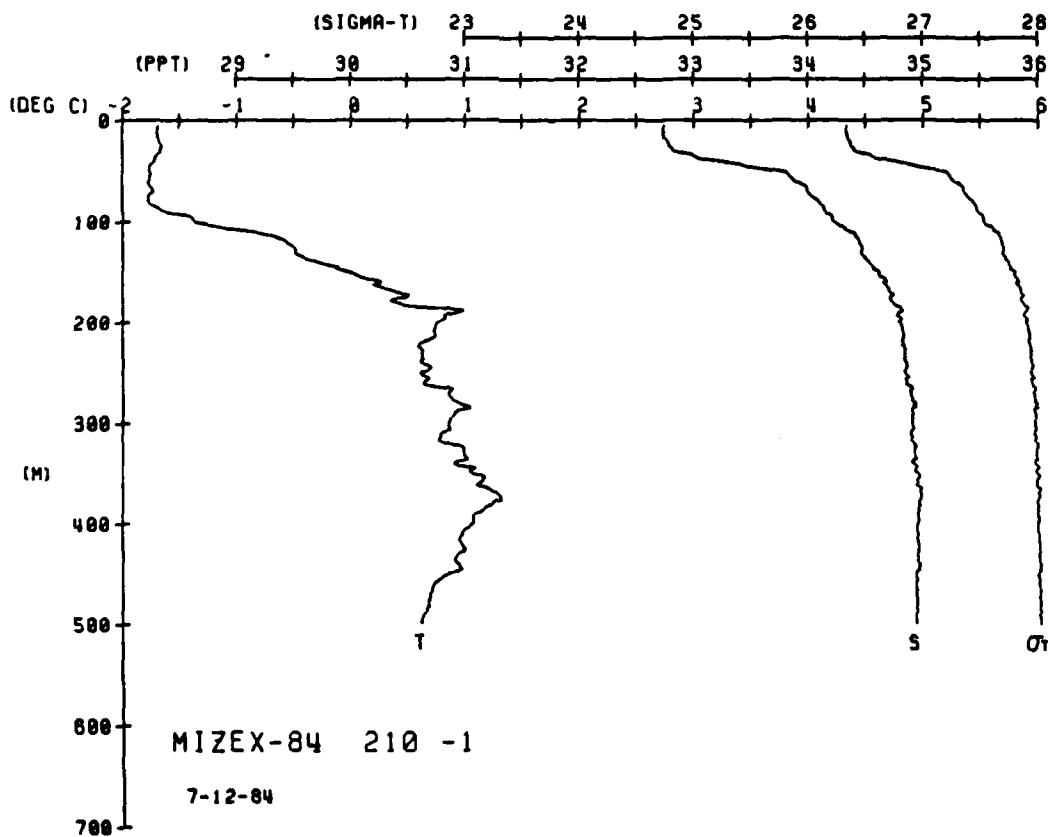
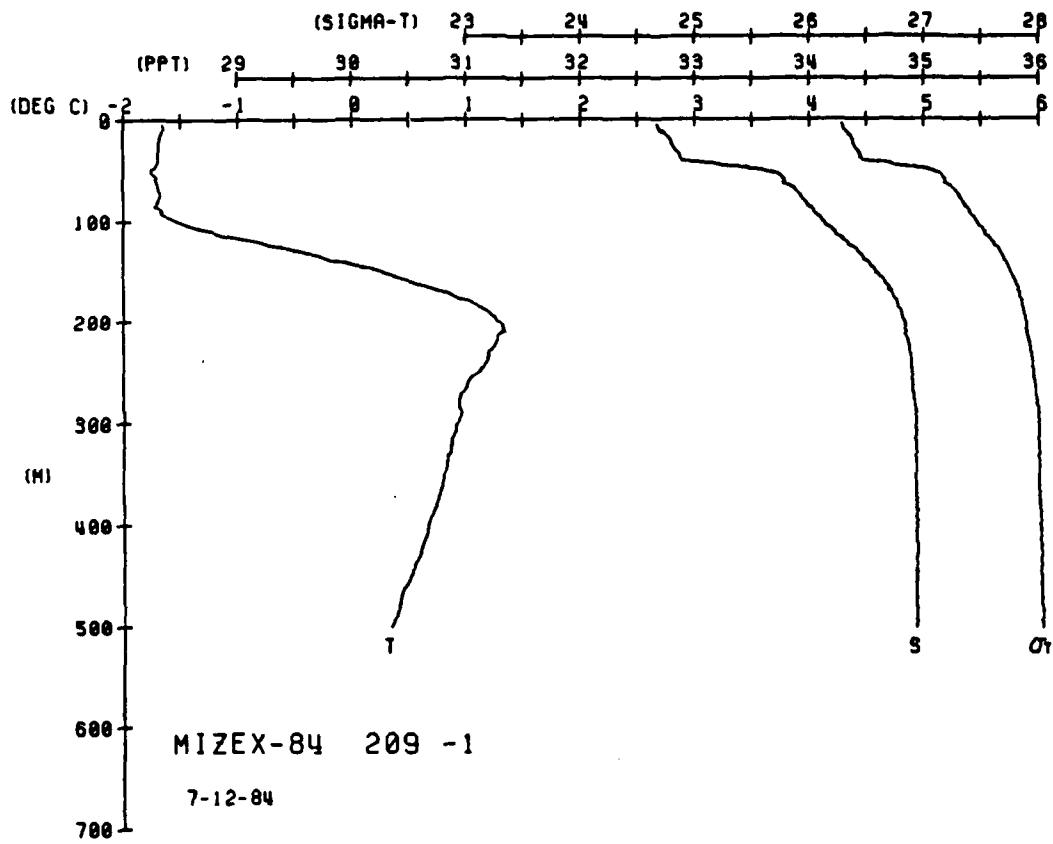


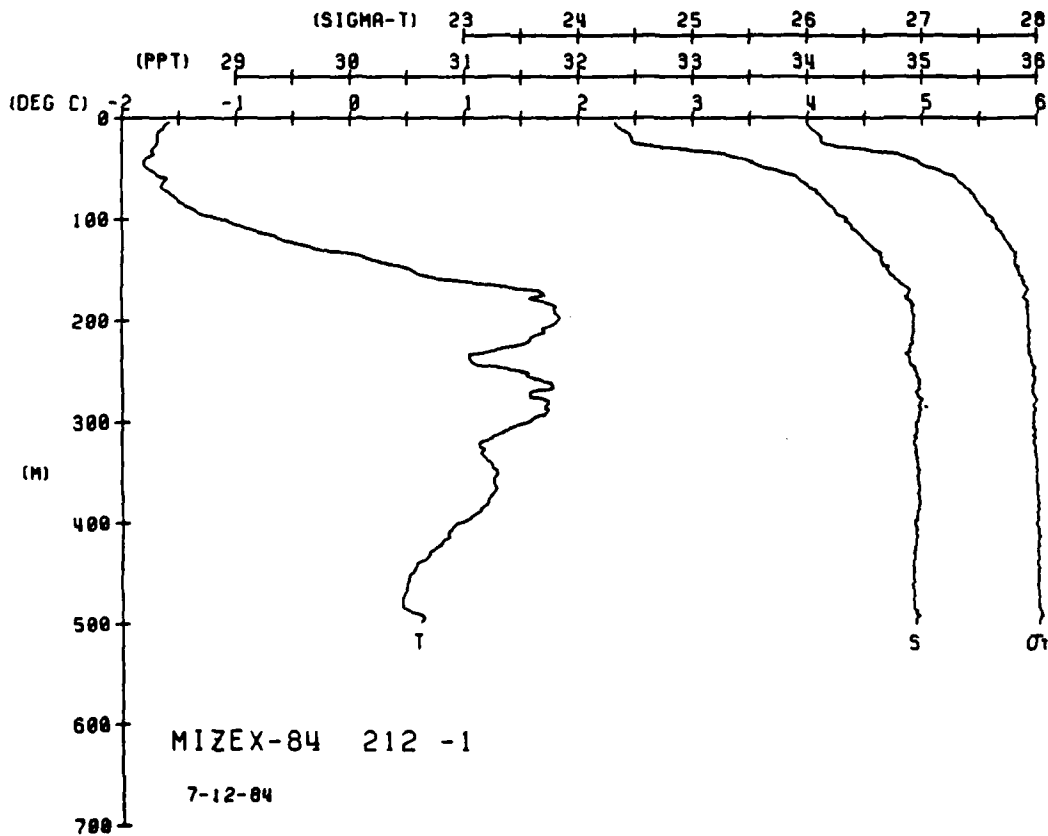
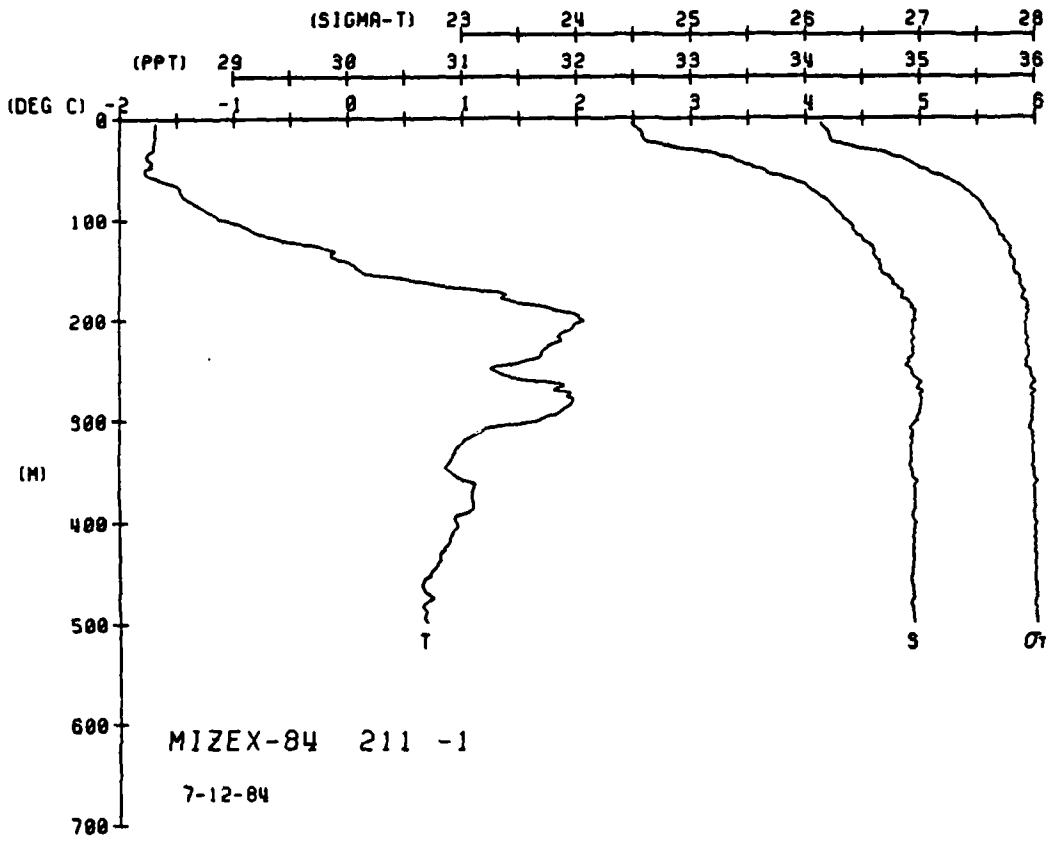






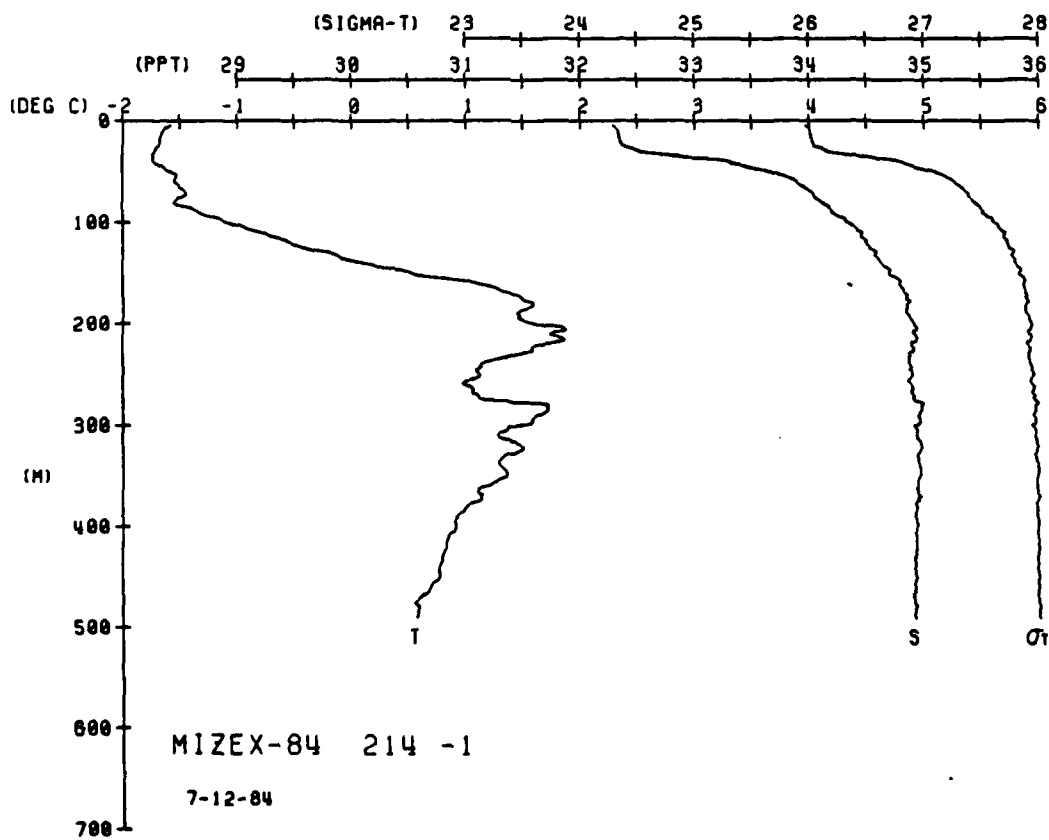
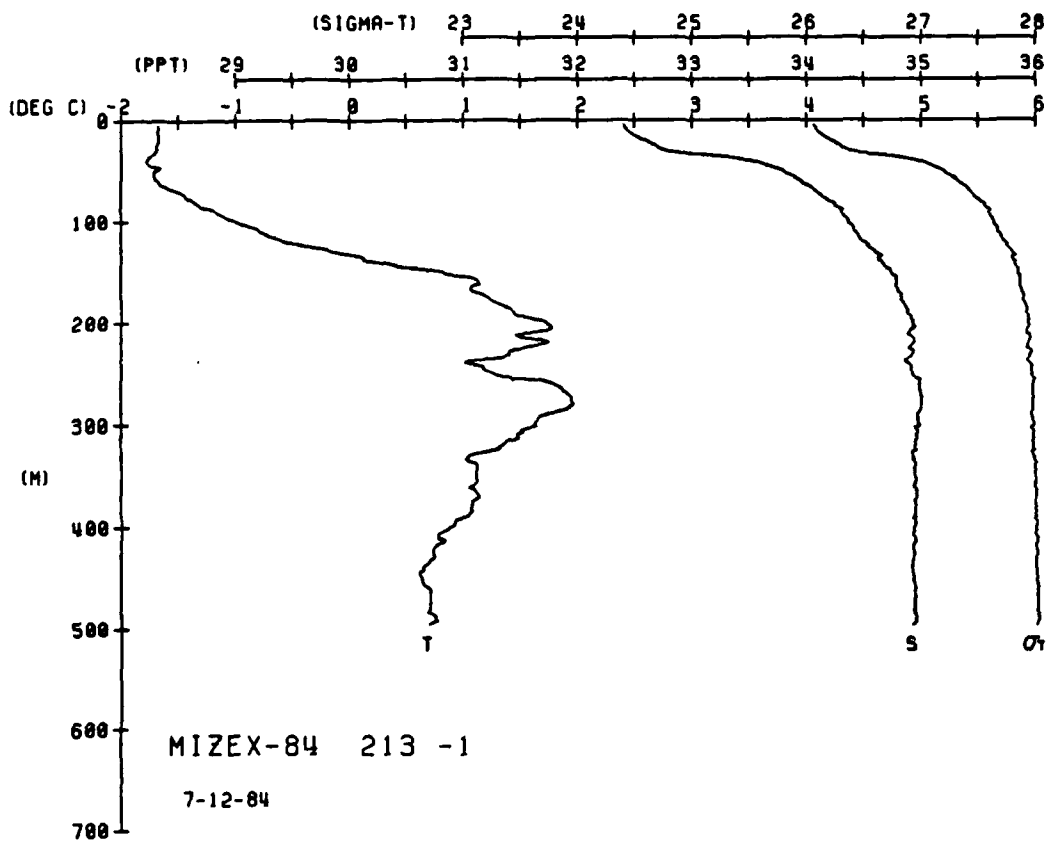


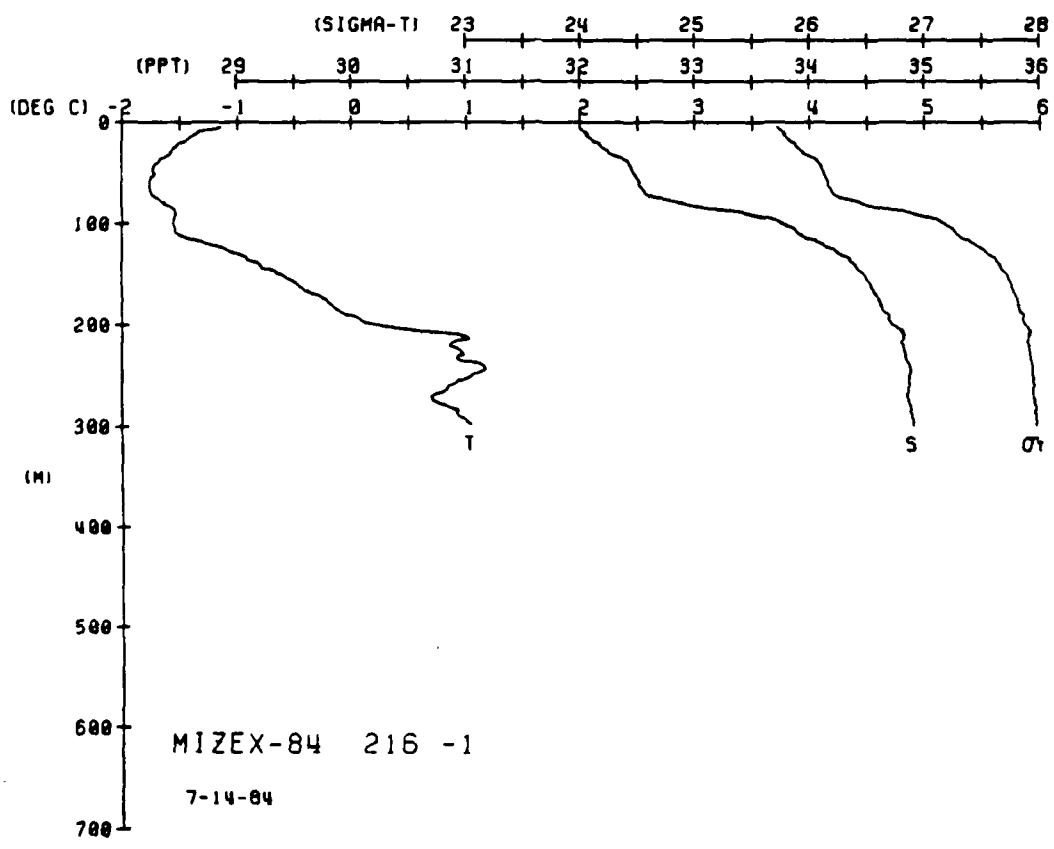
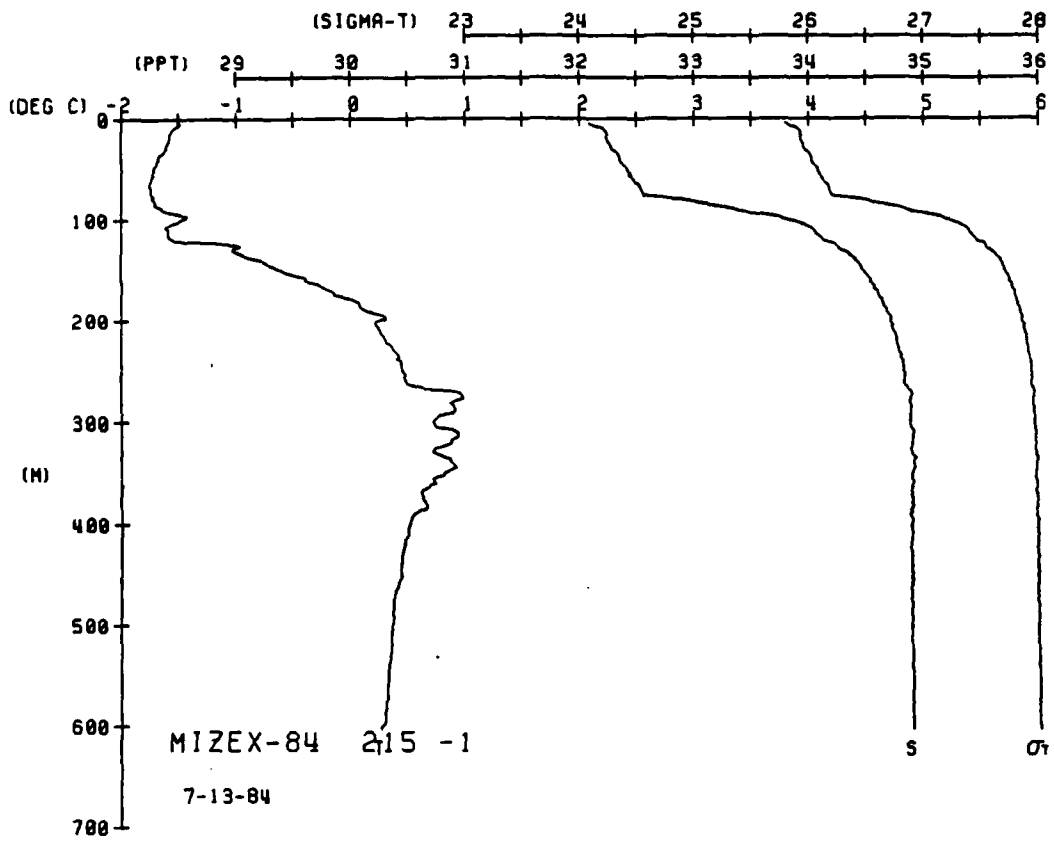




MIZEX-84 STATION 213(1) CTD 12/JUL/1984 1409 GMT CODE = 1
LAT = 80.3750N LMG = 0.0333W LTER = 400 LGER = 400
AIR TEMP = 0.0 WIND = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DIWMT	SOUND
0	66	11	33	22	99	00	11
5	67	11	33	22	99	00	11
10	67	11	33	22	99	00	11
15	67	11	33	22	99	00	11
20	67	11	33	22	99	00	11
25	67	11	33	22	99	00	11
30	67	11	33	22	99	00	11
35	67	11	33	22	99	00	11
40	67	11	33	22	99	00	11
45	67	11	33	22	99	00	11
50	67	11	33	22	99	00	11
55	67	11	33	22	99	00	11
60	67	11	33	22	99	00	11
65	67	11	33	22	99	00	11
70	67	11	33	22	99	00	11
75	67	11	33	22	99	00	11
80	67	11	33	22	99	00	11
85	67	11	33	22	99	00	11
90	67	11	33	22	99	00	11
95	67	11	33	22	99	00	11
100	67	11	33	22	99	00	11
105	67	11	33	22	99	00	11
110	67	11	33	22	99	00	11
115	67	11	33	22	99	00	11
120	67	11	33	22	99	00	11
125	67	11	33	22	99	00	11
130	67	11	33	22	99	00	11
135	67	11	33	22	99	00	11
140	67	11	33	22	99	00	11
145	67	11	33	22	99	00	11
150	67	11	33	22	99	00	11
155	67	11	33	22	99	00	11
160	67	11	33	22	99	00	11
165	67	11	33	22	99	00	11
170	67	11	33	22	99	00	11
175	67	11	33	22	99	00	11
180	67	11	33	22	99	00	11
185	67	11	33	22	99	00	11
190	67	11	33	22	99	00	11
195	67	11	33	22	99	00	11
200	67	11	33	22	99	00	11
205	67	11	33	22	99	00	11
210	67	11	33	22	99	00	11
215	67	11	33	22	99	00	11
220	67	11	33	22	99	00	11
225	67	11	33	22	99	00	11
230	67	11	33	22	99	00	11
235	67	11	33	22	99	00	11
240	67	11	33	22	99	00	11
245	67	11	33	22	99	00	11
250	67	11	33	22	99	00	11
255	67	11	33	22	99	00	11
260	67	11	33	22	99	00	11
265	67	11	33	22	99	00	11
270	67	11	33	22	99	00	11
275	67	11	33	22	99	00	11
280	67	11	33	22	99	00	11
285	67	11	33	22	99	00	11
290	67	11	33	22	99	00	11
295	67	11	33	22	99	00	11
300	67	11	33	22	99	00	11
305	67	11	33	22	99	00	11
310	67	11	33	22	99	00	11
315	67	11	33	22	99	00	11
320	67	11	33	22	99	00	11
325	67	11	33	22	99	00	11
330	67	11	33	22	99	00	11
335	67	11	33	22	99	00	11
340	67	11	33	22	99	00	11
345	67	11	33	22	99	00	11
350	67	11	33	22	99	00	11
355	67	11	33	22	99	00	11
360	67	11	33	22	99	00	11
365	67	11	33	22	99	00	11
370	67	11	33	22	99	00	11
375	67	11	33	22	99	00	11
380	67	11	33	22	99	00	11
385	67	11	33	22	99	00	11
390	67	11	33	22	99	00	11
395	67	11	33	22	99	00	11
400	67	11	33	22	99	00	11
405	67	11	33	22	99	00	11
410	67	11	33	22	99	00	11
415	67	11	33	22	99	00	11
420	67	11	33	22	99	00	11
425	67	11	33	22	99	00	11
430	67	11	33	22	99	00	11
435	67	11	33	22	99	00	11
440	67	11	33	22	99	00	11
445	67	11	33	22	99	00	11
450	67	11	33	22	99	00	11
455	67	11	33	22	99	00	11
460	67	11	33	22	99	00	11
465	67	11	33	22	99	00	11
470	67	11	33	22	99	00	11
475	67	11	33	22	99	00	11
480	67	11	33	22	99	00	11
485	67	11	33	22	99	00	11
490	67	11	33	22	99	00	11
495	67	11	33	22	99	00	11
500	67	11	33	22	99	00	11
505	67	11	33	22	99	00	11
510	67	11	33	22	99	00	11
515	67	11	33	22	99	00	11
520	67	11	33	22	99	00	11
525	67	11	33	22	99	00	11
530	67	11	33	22	99	00	11
535	67	11	33	22	99	00	11
540	67	11	33	22	99	00	11
545	67	11	33	22	99	00	11
550	67	11	33	22	99	00	11
555	67	11	33	22	99	00	11
560	67	11	33	22	99	00	11
565	67	11	33	22	99	00	11
570	67	11	33	22	99	00	11
575	67	11	33	22	99	00	11
580	67	11	33	22	99	00	11
585	67	11	33	22	99	00	11
590	67	11	33	22	99	00	11
595	67	11	33	22	99	00	11
600	67	11	33	22	99	00	11
605	67	11	33	22	99	00	11
610	67	11	33	22	99	00	11
615	67	11	33	22	99	00	11
620	67	11	33	22	99	00	11
625	67	11	33	22	99	00	11
630	67	11	33	22	99	00	11
635	67	11	33	22	99	00	11
640	67	11	33	22	99	00	11
645	67	11	33	22	99	00	11
650	67	11	33	22	99	00	11
655	67	11	33	22	99	00	11
660	67	11	33	22	99	00	11
665	67	11	33	22	99	00	11
670	67	11	33	22	99	00	11
675	67	11	33	22	99	00	11
680	67	11	33	22	99	00	11
685	67	11	33	22	99	00	11
690	67	11	33	22	99	00	11
695	67	11	33	22	99	00	11
700	67	11	33	22	99	00	11
705	67	11	33	22	99	00	11
710	67	11	33	22	99	00	11
715	67	11	33	22	99	00	11
720	67	11	33	22	99	00	11
725	67	11	33	22	99	00	11
730	67	11	33	22	99	00	11
735	67	11	33	22	99	00	11
740	67	11	33	22	99	00	11
745	67	11	33	22	99	00	11
750	67	11	33	22	99	00	11
755	67	11	33	22	99	00	11
760	67	11	33	22	99	00	11
765	67	11	33	22	99	00	11
770	67	11	33	22	99	00	11
775	67	11	33	22	99	00	11
780	67	11	33	22	99	00	11
785	67	11	33	22	99	00	11
790	67	11	33	22	99	00	11
795	67	11	33	22	99	00	11
800	67	11	33	22	99	00	11
805	67	11	33	22	99	00	11
810	67	11	33	22	99	00	11
815	67	11	33	22	99	00	11
820	67	11	33	22	99	00	11
825	67	11	33	22	99	00	11
830	67	11	33	22	99	00	11
835	67	11	33	22	99	00	11
840	67	11	33	22	99	00	11
845	67	11	33	22	99	00	11
850	67	11	33	22	99	00	11
855	67	11	33	22	99	00	11
860	67	11	33	22	99	00	11
865	67	11	33	22	99	00	11
870	67	11	33	22	99	00	11
875	67	11	33	22	99	00	11
880	67	11	33	22	99	00	11
885	67	11	33	22	99	00	11
890	67	11	33	22	99	00	11
895	67	11	33	22	99	00	11
900	67	11	33	22	99	00	11
905	67	11	33	22	99	00	11
910	67	11	33	22	99	00	11
915	67	11	33	22	99	00	11
920	67	11	33	22	99	00	11
925	67	11	33	22	99	00	11
930	67	11	33	22	99	00	11
935	67	11	33	22	99	00	11
940	67	11	33	22	99	00	11
945	67	11	33	22	99	00	11
950	67	11	33	22	99	00	11
955	67	11	33	22	99	00	11
960	67	11	33	22	99	00	11
965	67	11	33	22	99	00	11
970	67	11	33	22	99	00	11
975	67	11	33	22	99	00	11
980	67	11	33	22	99	00	11
985	67	11	33	22	99	00	11
990	67	11	33	22	99	00	11
995	67	11	33				



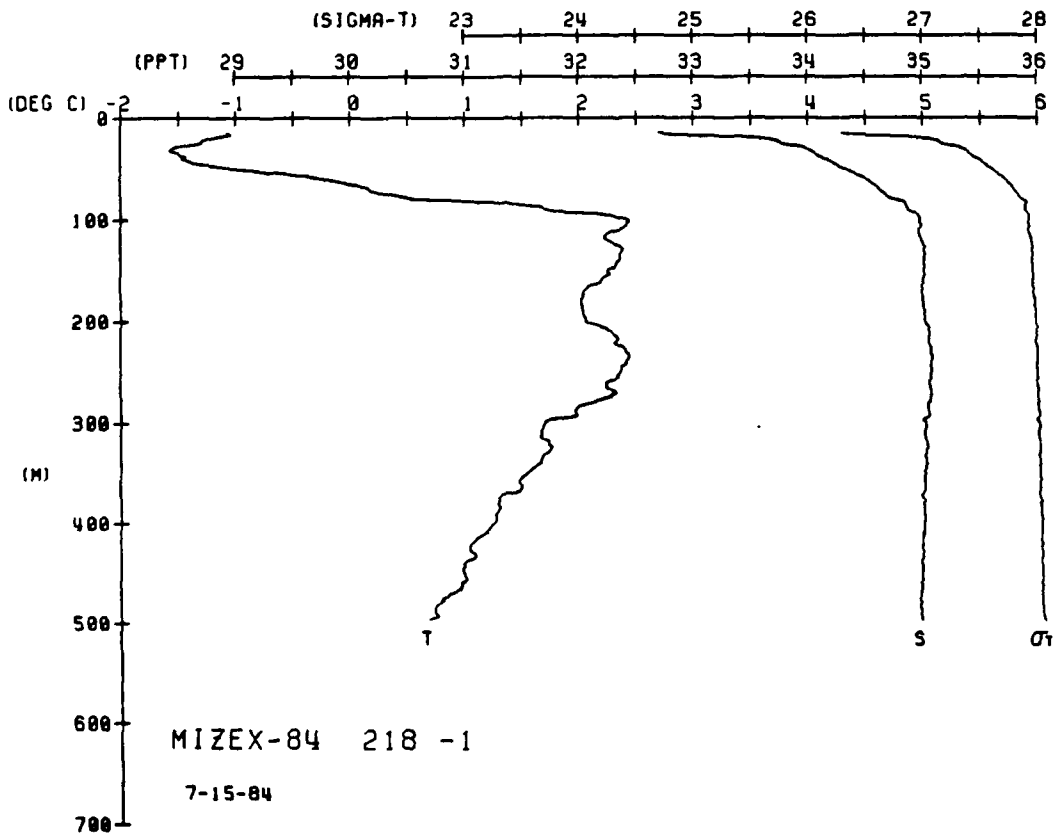
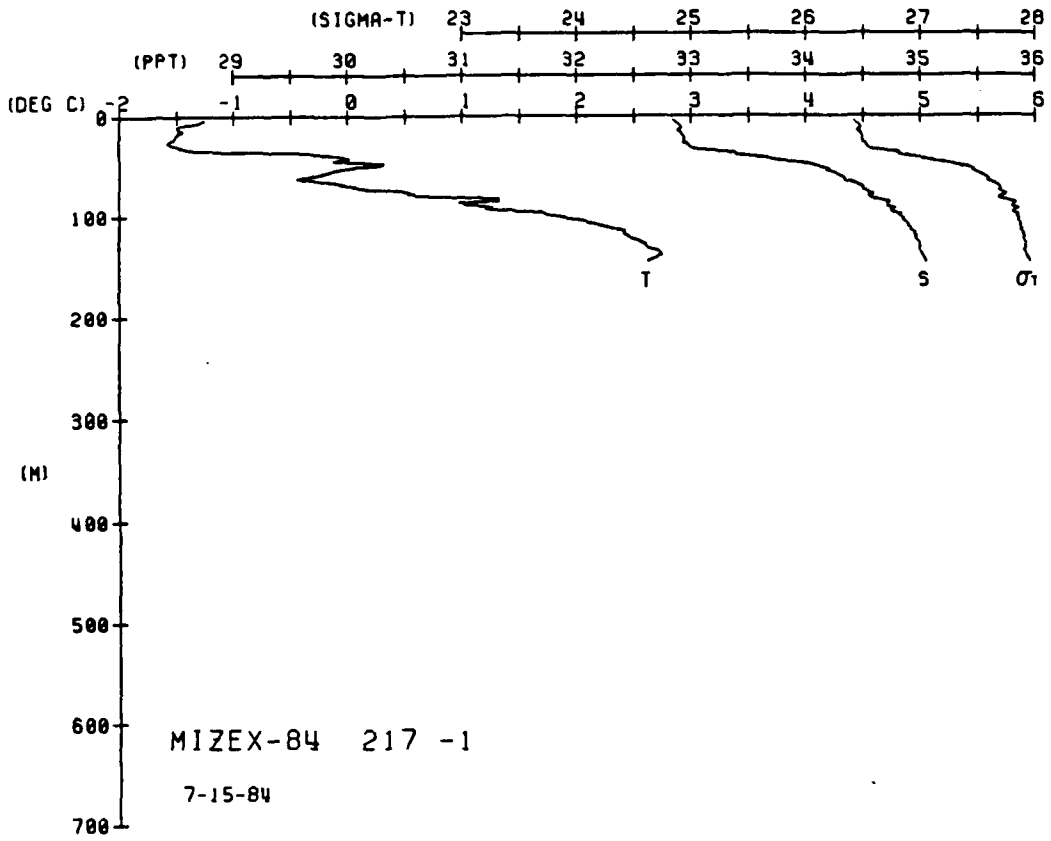


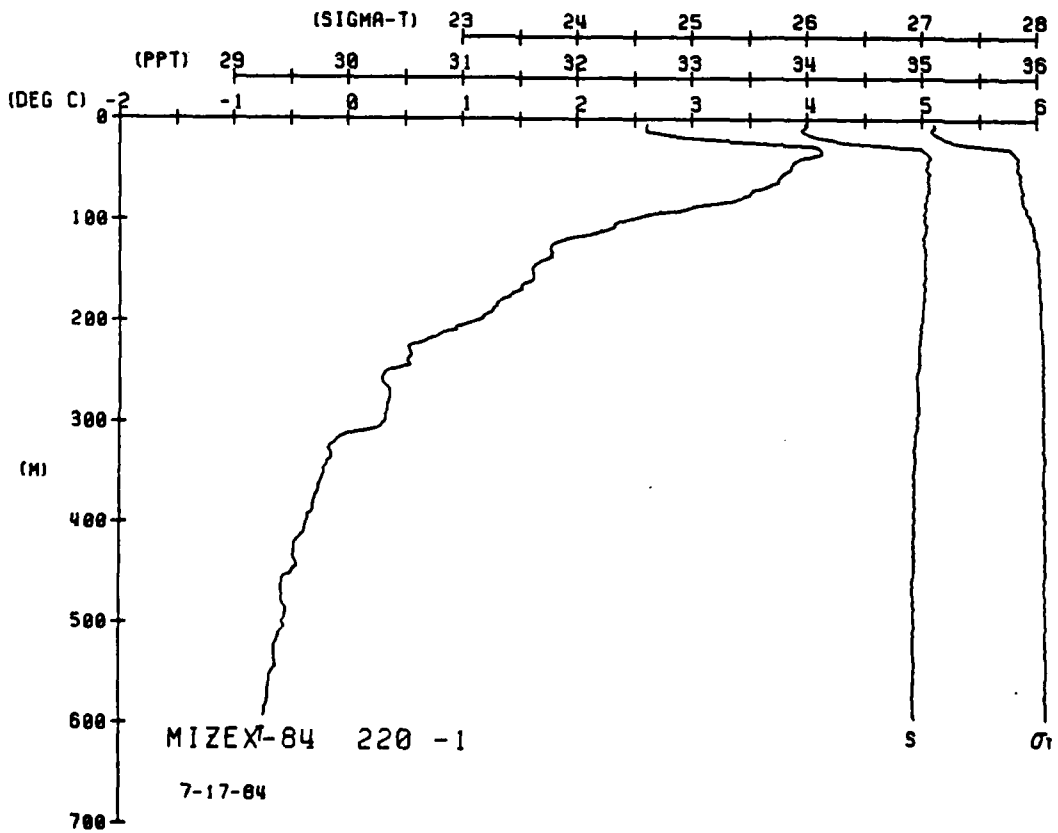
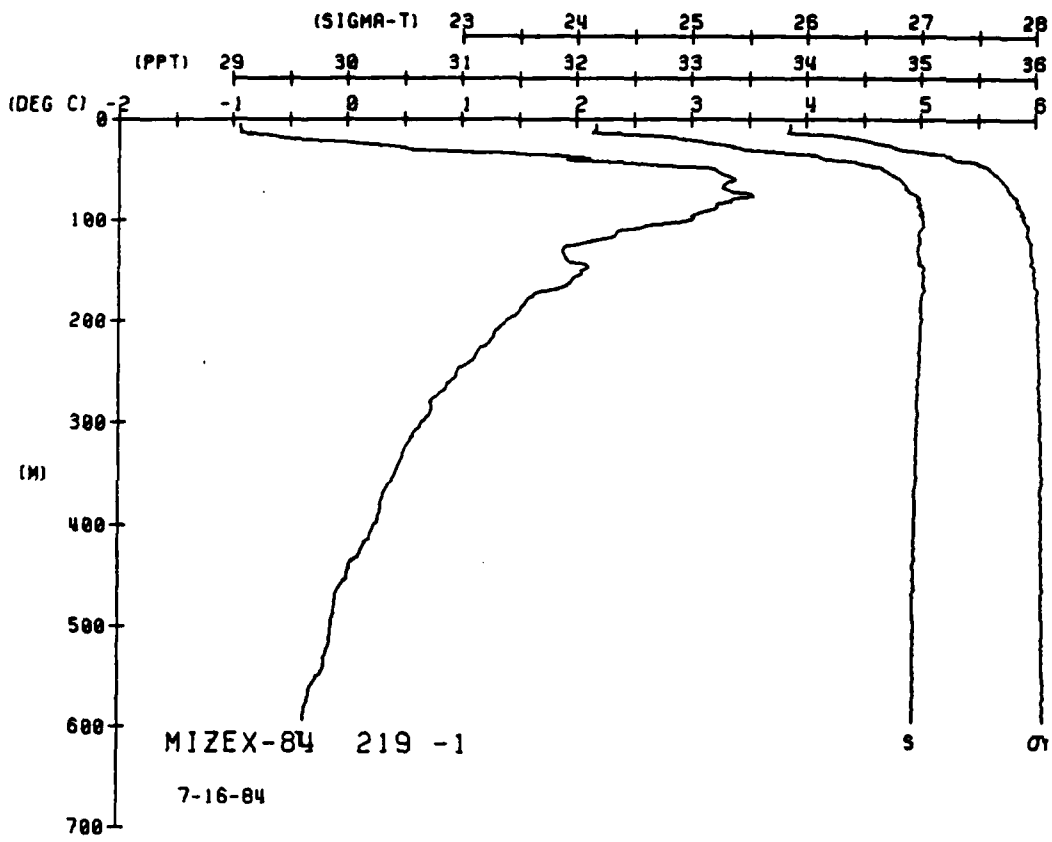
WIZEX-84 STATION 217(1) CTU 15/JUL/1984 719 GMT CODE = 1
LAT = 79.7235N LMG = 2.4742W LTKR = 30 UGER = 30
AIR TEMP = 0.0 WIND = 0.0 SPEED = 0.0

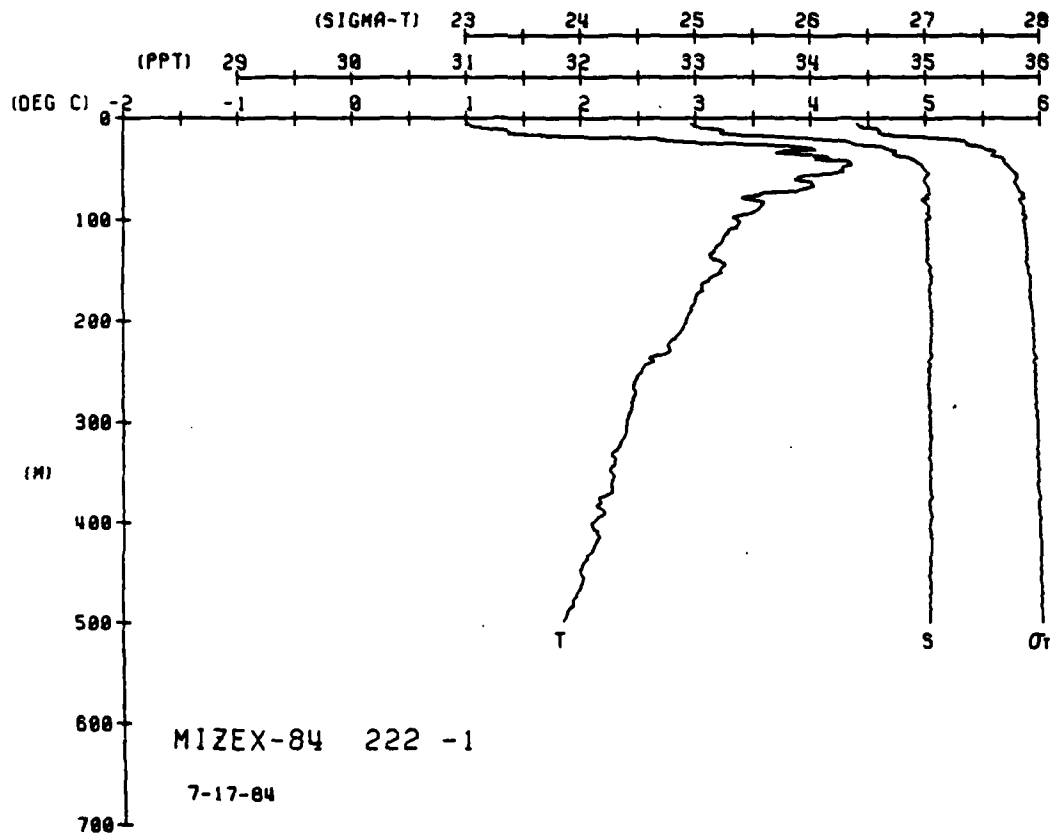
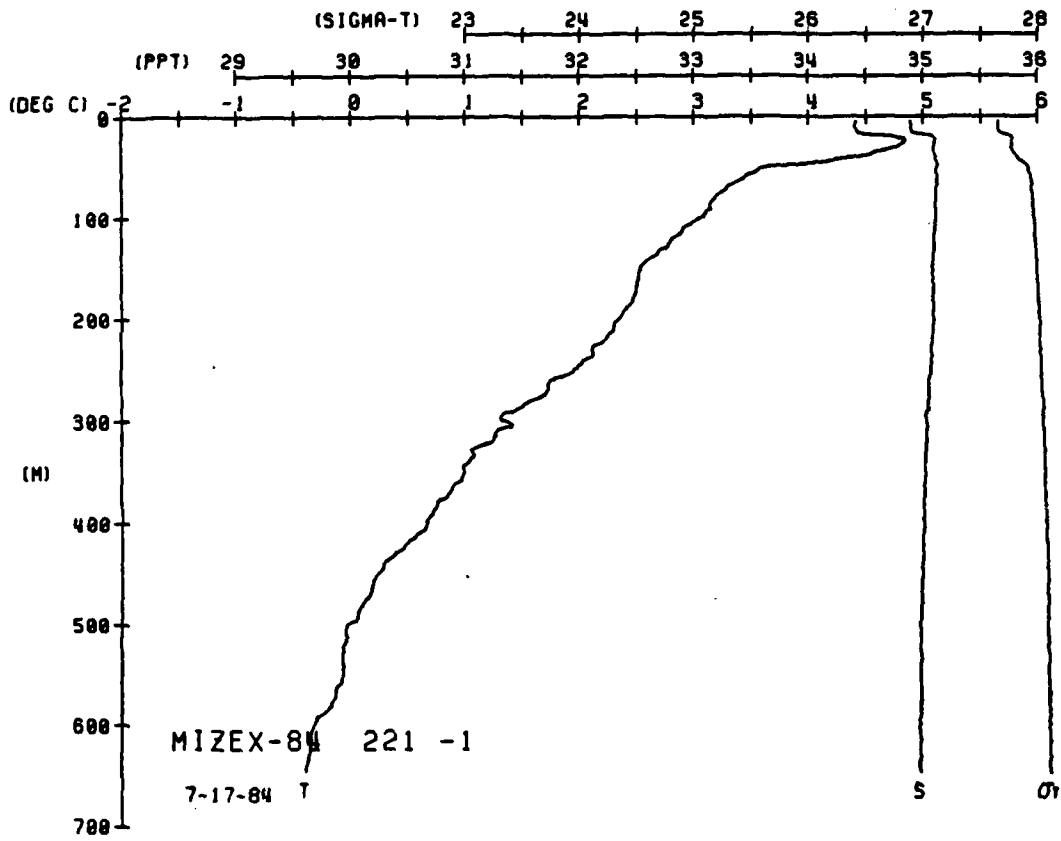
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
0	98	-0.98	32.83	26.39	162.32	0.000	1441.8
5	97	-1.27	32.84	26.41	160.59	0.008	14440.5
10	94	-1.44	32.89	26.45	156.80	0.032	14339.9
15	92	-1.56	32.93	26.49	152.77	0.047	14329.6
20	91	-1.59	33.03	26.52	147.79	0.054	1442.0
25	90	-1.18	33.48	26.89	130.13	0.069	1448.5
30	90	-0.19	34.09	27.36	70.80	0.076	1448.2
35	90	-0.11	34.15	27.57	51.01	0.082	1448.0
40	90	-0.20	34.44	27.69	39.17	0.084	1452.2
45	90	-0.47	34.44	27.70	38.45	0.087	1453.5
50	90	-0.74	34.44	27.71	38.58	0.089	1459.1
55	90	-0.71	34.44	27.71	38.58	0.095	1459.0
60	90	-0.71	34.44	27.71	38.58	0.095	1462.3
65	90	-0.71	34.44	27.71	38.58	0.095	1463.1
70	90	-0.71	34.44	27.71	38.58	0.095	1463.1
75	90	-0.71	34.44	27.71	38.58	0.095	1463.1
80	90	-0.71	34.44	27.71	38.58	0.095	1463.1
85	90	-0.71	34.44	27.71	38.58	0.095	1463.1
90	90	-0.71	34.44	27.71	38.58	0.095	1463.1
95	90	-0.71	34.44	27.71	38.58	0.095	1463.1
100	90	-0.71	34.44	27.71	38.58	0.095	1463.1

WIZEX-84 STATION 218(1) CTU 15/JUL/1984 1223 GMT CODE = 1
LAT = 79.6023N LMG = 1.3697W LTKR = 30 UGER = 30
AIR TEMP = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHMT	SOUND
0	98	-1.06	32.71	26.30	171.22	0.000	1441.3
5	96	-1.06	32.71	26.30	171.22	0.009	1441.3
10	94	-1.06	32.71	26.30	171.22	0.017	1441.3
15	92	-1.06	32.71	26.30	171.22	0.023	1441.3
20	90	-1.06	32.71	26.30	171.22	0.038	1441.3
25	90	-1.51	32.71	26.30	171.22	0.045	1441.3
30	90	-1.33	32.71	26.30	171.22	0.054	1441.3
35	90	-1.05	32.71	26.30	171.22	0.056	1441.3
40	90	-0.55	32.71	26.30	171.22	0.060	1441.3
45	90	-0.22	32.71	26.30	171.22	0.061	1441.3
50	90	0.14	32.71	26.30	171.22	0.065	1441.3
55	90	0.30	32.71	26.30	171.22	0.066	1441.3
60	90	0.19	32.71	26.30	171.22	0.068	1441.3
65	90	0.25	32.71	26.30	171.22	0.070	1441.3
70	90	0.33	32.71	26.30	171.22	0.073	1441.3
75	90	0.27	32.71	26.30	171.22	0.077	1441.3
80	90	0.44	32.71	26.30	171.22	0.079	1441.3
85	90	0.33	32.71	26.30	171.22	0.083	1441.3
90	90	0.27	32.71	26.30	171.22	0.085	1441.3
95	90	0.30	32.71	26.30	171.22	0.086	1441.3
100	90	0.43	32.71	26.30	171.22	0.088	1441.3
105	90	0.23	32.71	26.30	171.22	0.090	1441.3
110	90	0.30	32.71	26.30	171.22	0.091	1441.3
115	90	0.25	32.71	26.30	171.22	0.093	1441.3
120	90	0.27	32.71	26.30	171.22	0.095	1441.3
125	90	0.30	32.71	26.30	171.22	0.095	1441.3
130	90	0.43	32.71	26.30	171.22	0.097	1441.3
135	90	0.23	32.71	26.30	171.22	0.099	1441.3
140	90	0.30	32.71	26.30	171.22	0.099	1441.3
145	90	0.27	32.71	26.30	171.22	0.100	1441.3
150	90	0.33	32.71	26.30	171.22	0.102	1441.3
155	90	0.27	32.71	26.30	171.22	0.103	1441.3
160	90	0.43	32.71	26.30	171.22	0.105	1441.3
165	90	0.23	32.71	26.30	171.22	0.107	1441.3
170	90	0.30	32.71	26.30	171.22	0.107	1441.3
175	90	0.27	32.71	26.30	171.22	0.108	1441.3
180	90	0.33	32.71	26.30	171.22	0.109	1441.3
185	90	0.27	32.71	26.30	171.22	0.110	1441.3
190	90	0.43	32.71	26.30	171.22	0.111	1441.3
195	90	0.23	32.71	26.30	171.22	0.112	1441.3







STD DATA

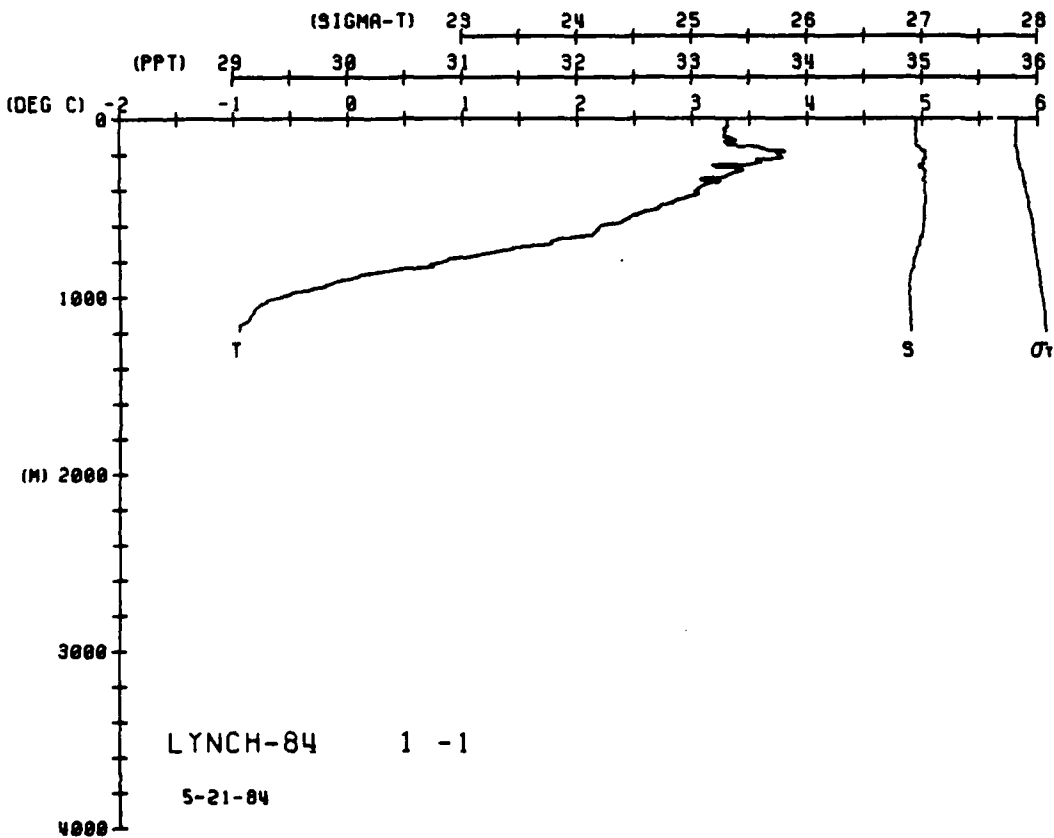
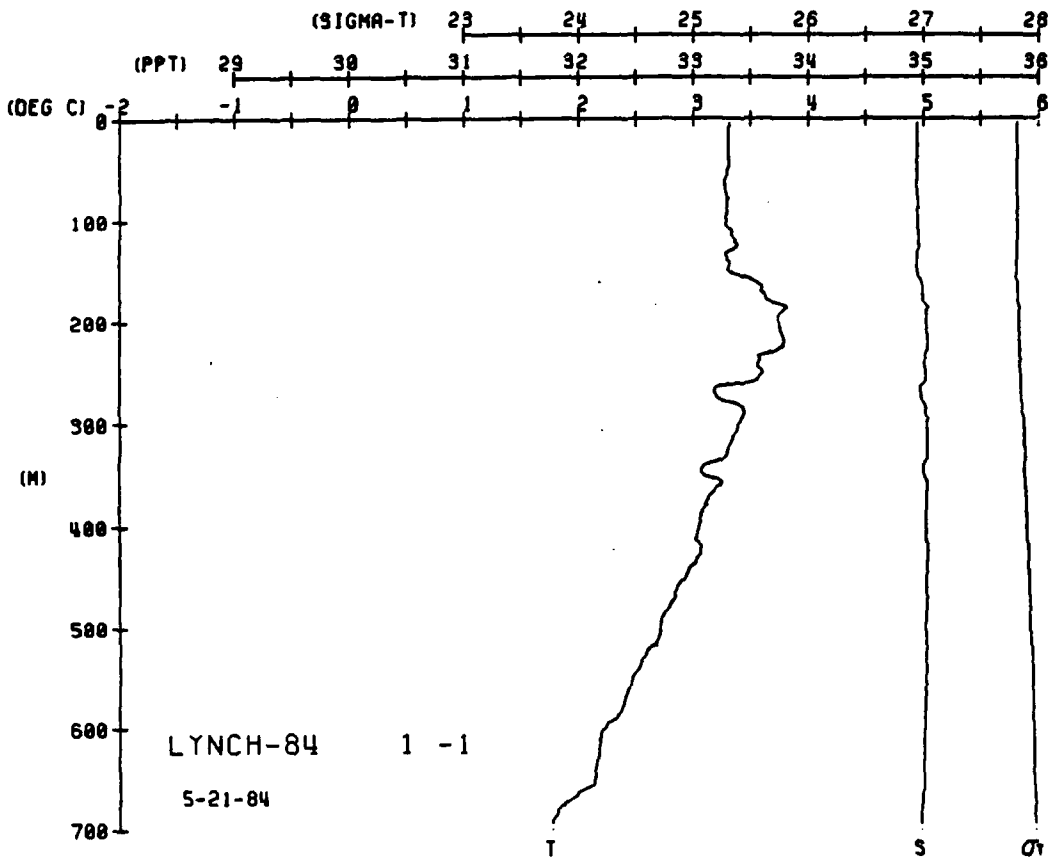
The section provides all of the data taken on the USNS Lynch.

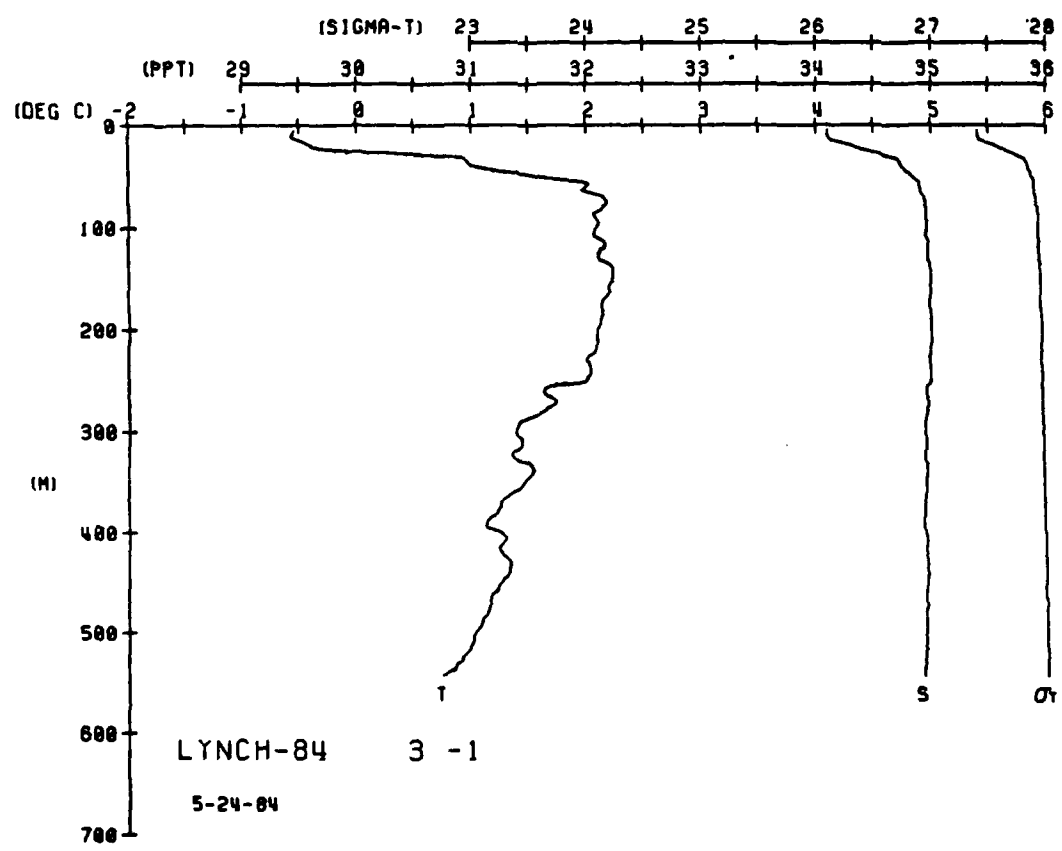
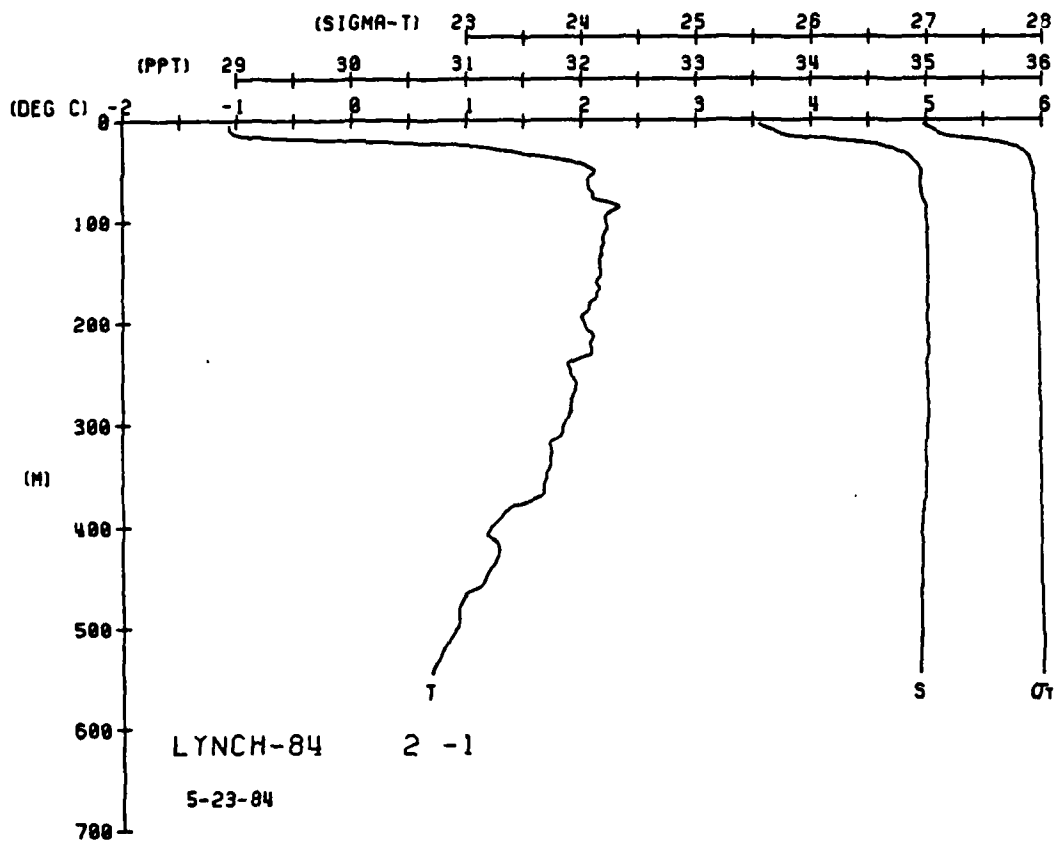
The numerical listing and corresponding

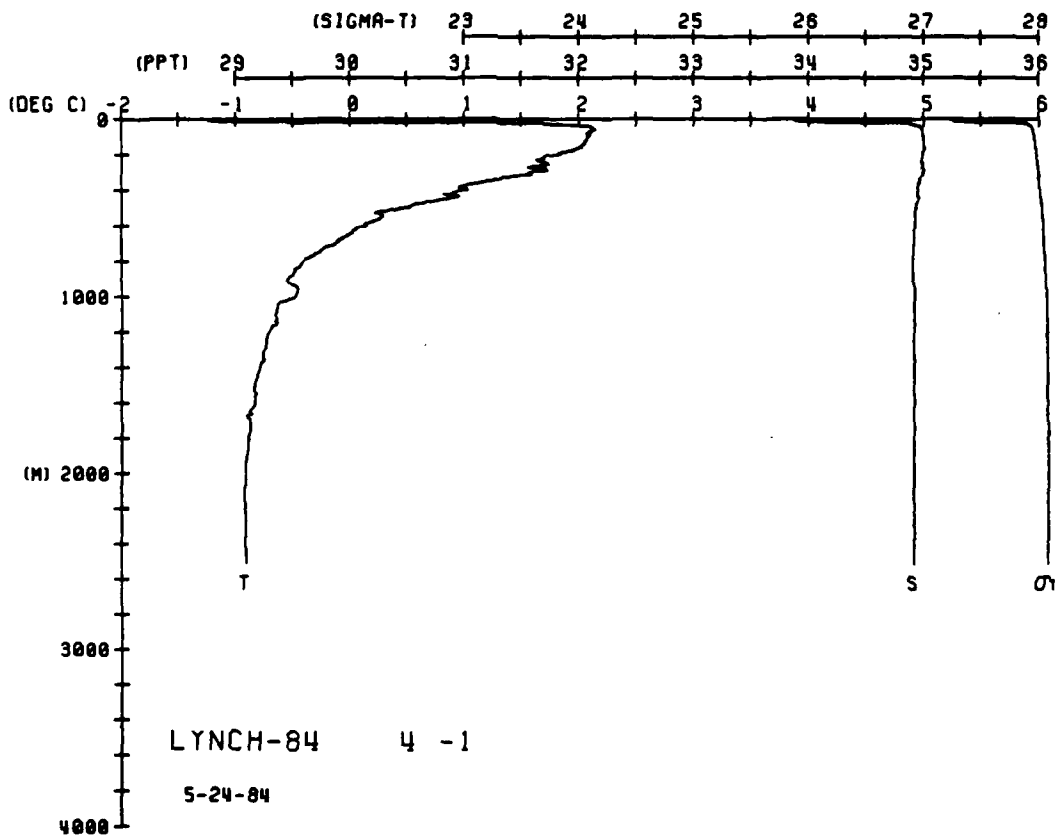
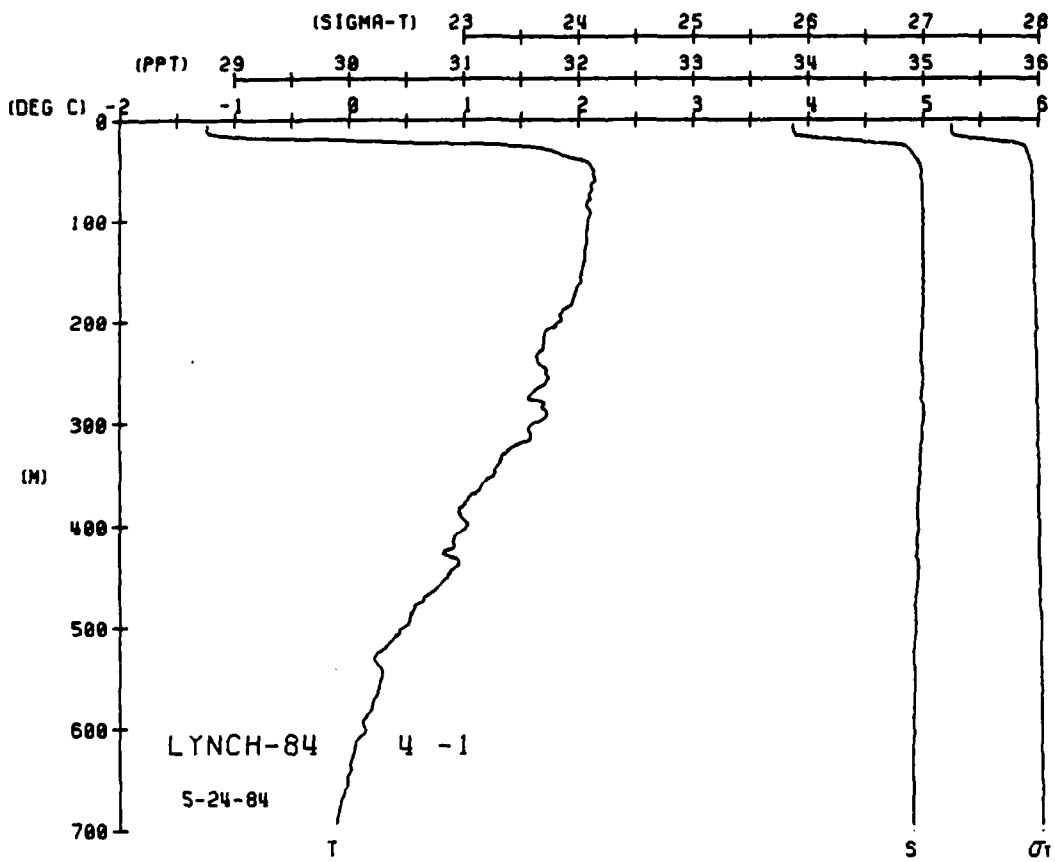
plots are given.

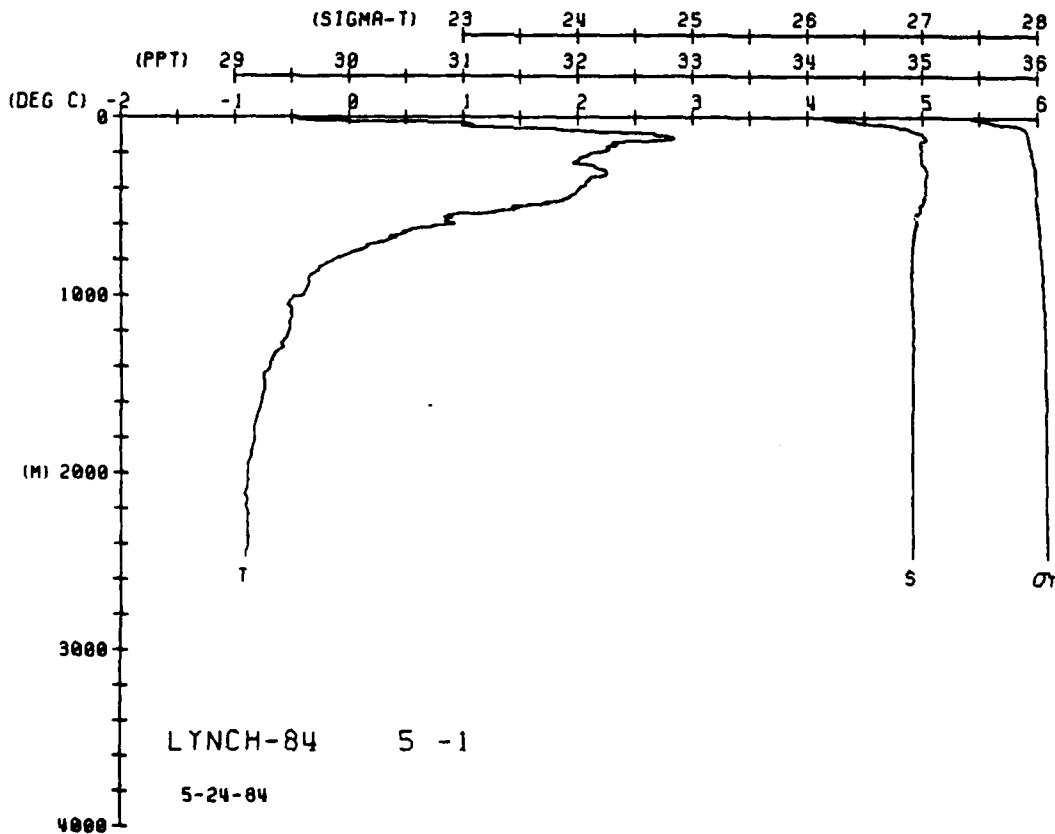
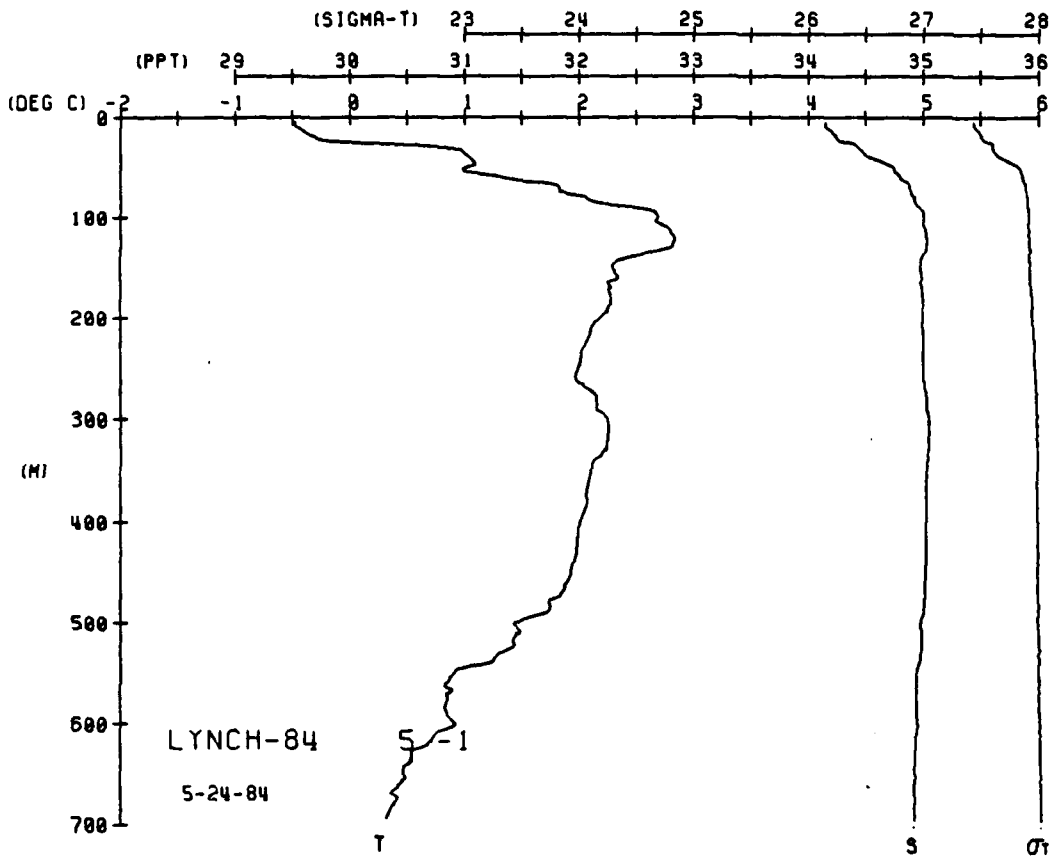
L1MCH-84 STATION 1(1) CTD 21/MAY/1984 245 GMT CODE = 5
 LAT = 79.0030N LMG = 6.9358E LTR = 30. LGSK = 30.
 AIR TEMP = 0.0 BAKOM = 0.0 WIND = 0.0 SPEED = 1.0

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	1.525	1.525	34.933	7.980	14560	00000000	99464.274
5	1.525	1.525	34.933	7.980	14560	00000000	99464.274
10	1.525	1.525	34.933	7.980	14560	00000000	99464.274
15	1.525	1.525	34.933	7.980	14560	00000000	99464.274
20	1.525	1.525	34.933	7.980	14560	00000000	99464.274
25	1.525	1.525	34.933	7.980	14560	00000000	99464.274
30	1.525	1.525	34.933	7.980	14560	00000000	99464.274
35	1.525	1.525	34.933	7.980	14560	00000000	99464.274
40	1.525	1.525	34.933	7.980	14560	00000000	99464.274
45	1.525	1.525	34.933	7.980	14560	00000000	99464.274
50	1.525	1.525	34.933	7.980	14560	00000000	99464.274
55	1.525	1.525	34.933	7.980	14560	00000000	99464.274
60	1.525	1.525	34.933	7.980	14560	00000000	99464.274
65	1.525	1.525	34.933	7.980	14560	00000000	99464.274
70	1.525	1.525	34.933	7.980	14560	00000000	99464.274
75	1.525	1.525	34.933	7.980	14560	00000000	99464.274
80	1.525	1.525	34.933	7.980	14560	00000000	99464.274
85	1.525	1.525	34.933	7.980	14560	00000000	99464.274
90	1.525	1.525	34.933	7.980	14560	00000000	99464.274
95	1.525	1.525	34.933	7.980	14560	00000000	99464.274
100	1.525	1.525	34.933	7.980	14560	00000000	99464.274



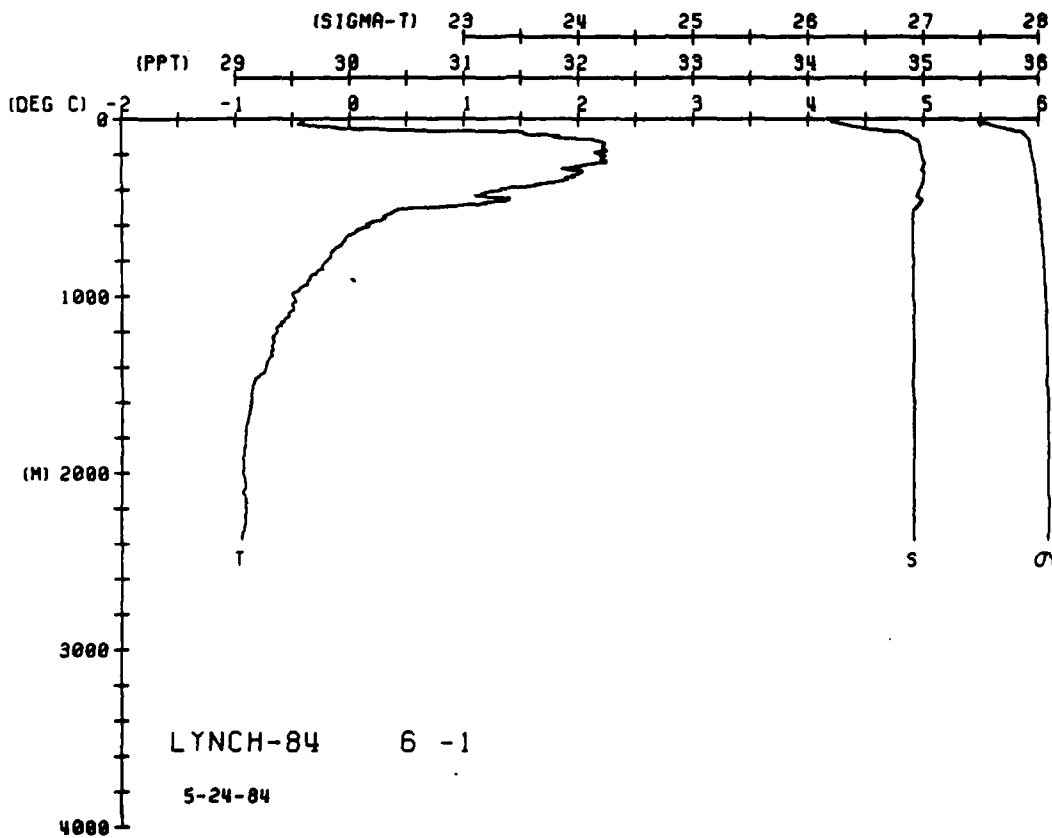
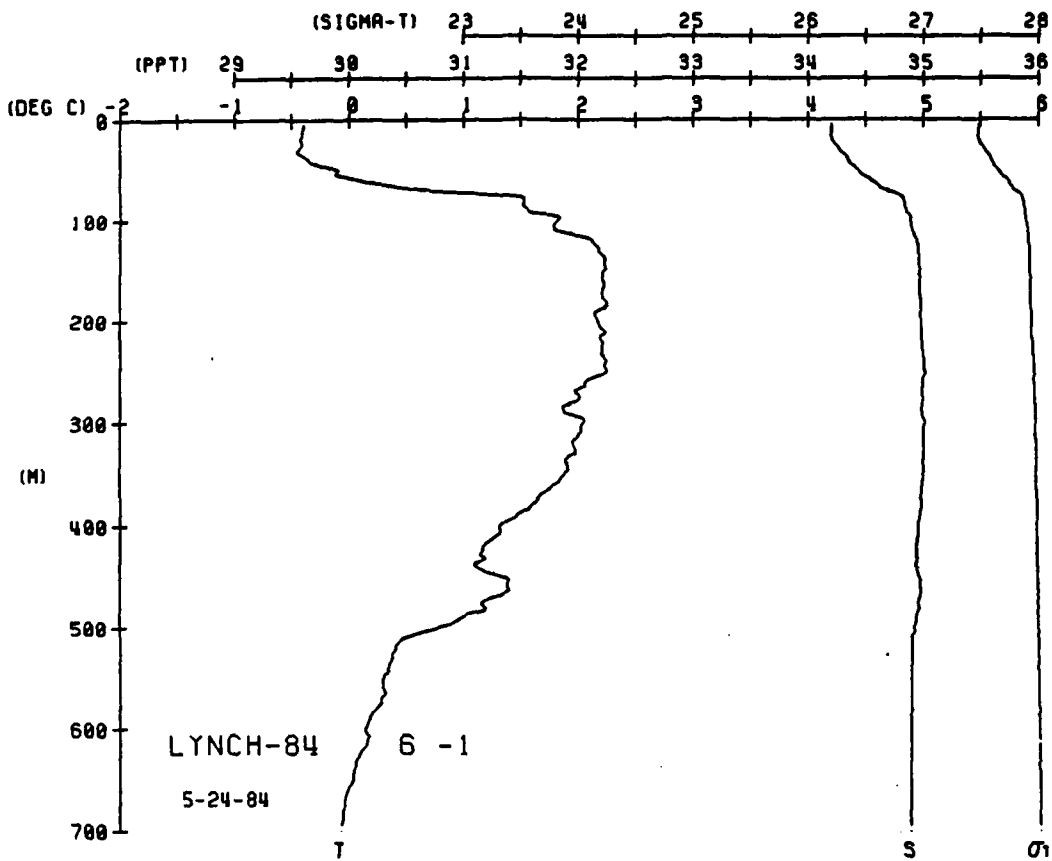


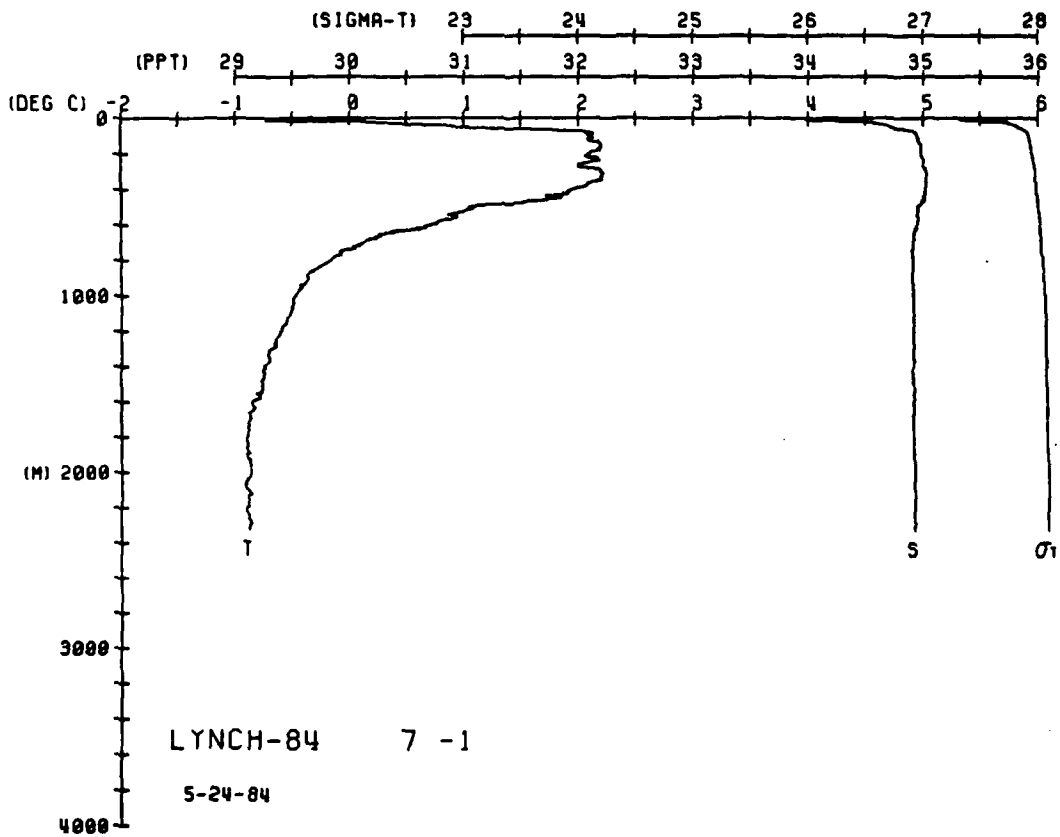
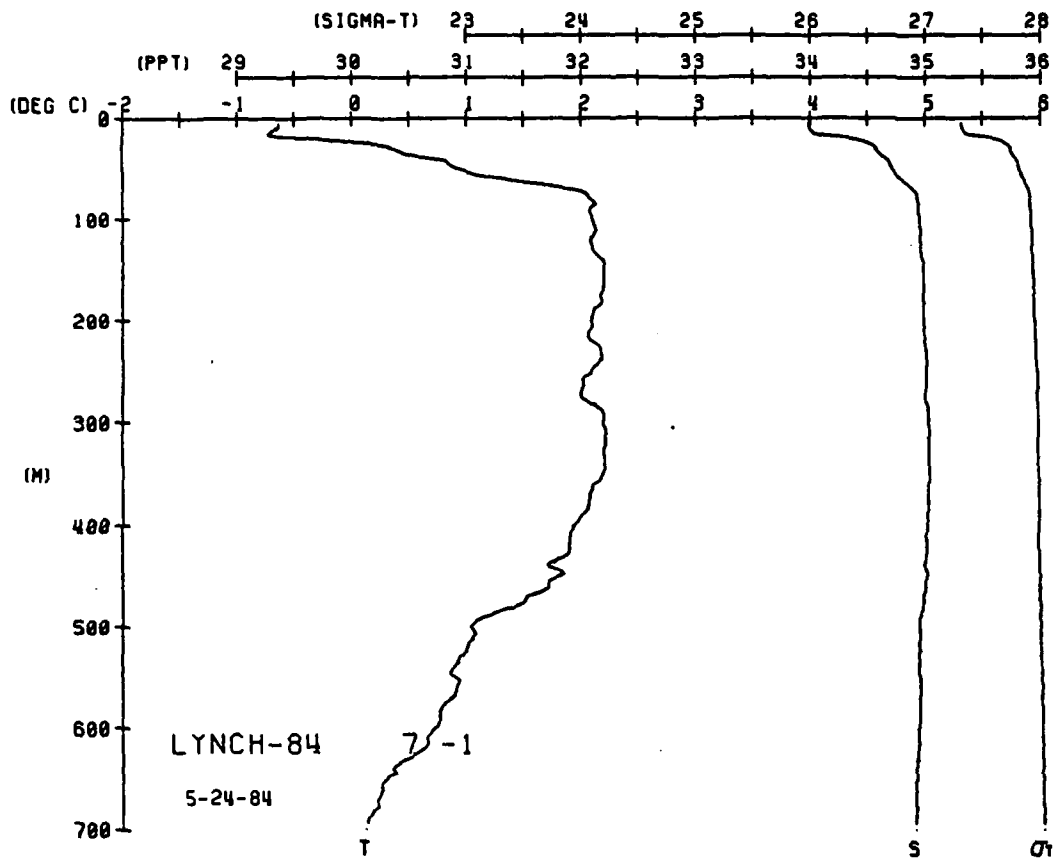


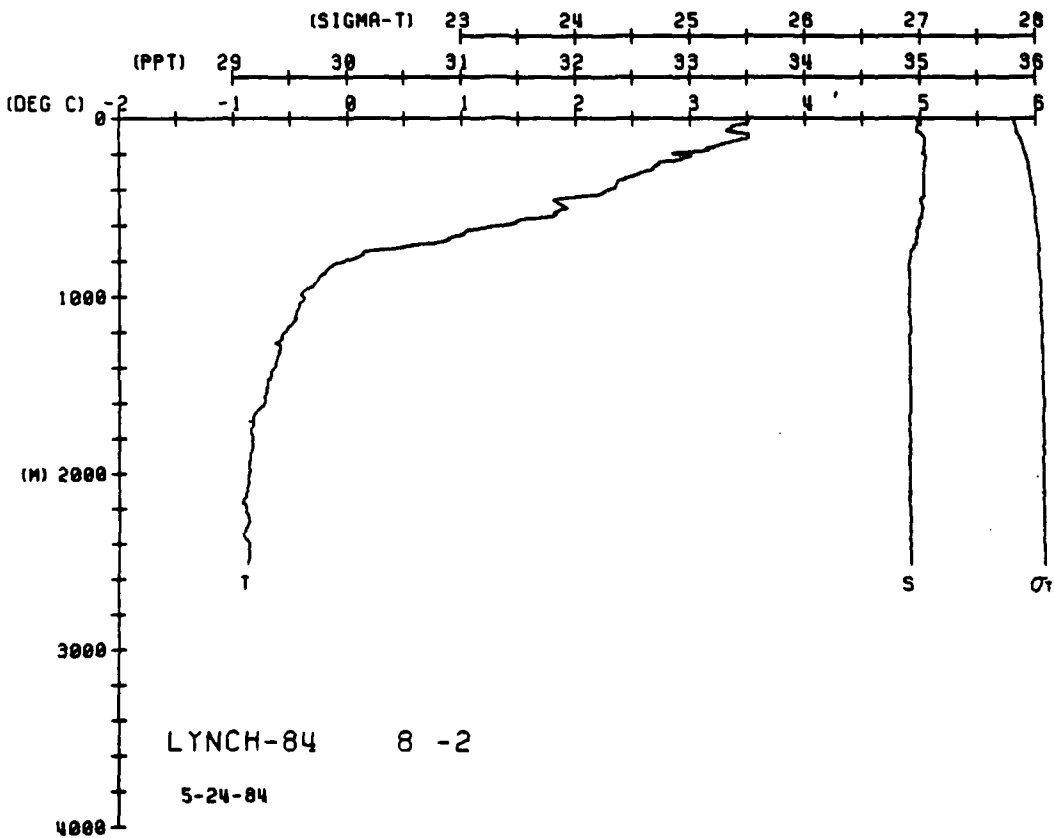
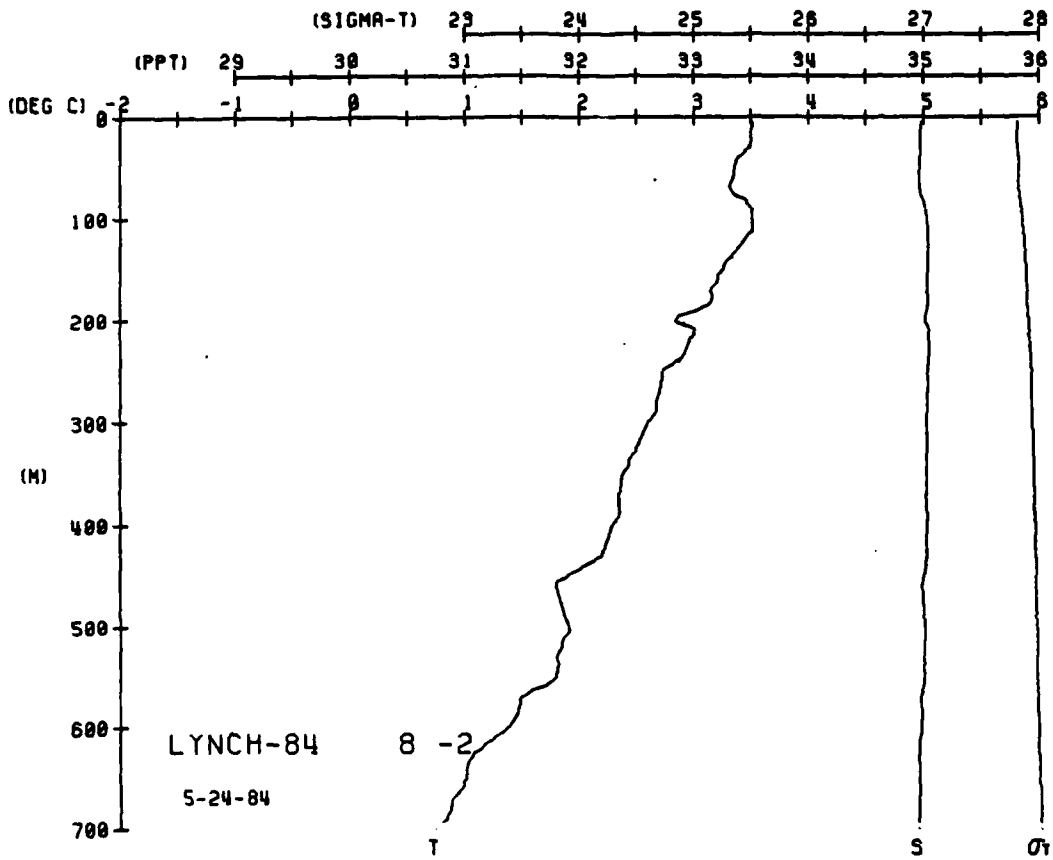


LYNCH-84 STATION 6(1) CID 24/MAY/1984 1613 GMT CODE = 5
LAT = 78.9367N LNC = 2.3333E LTR = 30.0 LGR = 30.0
AIR TEMP = 0.0 BARUM = 0.0 WIND = 0.0 SPEED = 1.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	0.00	0.00	34.90	0.03	7.06	21	1460.68
5	0.00	0.00	34.90	0.03	7.06	21	1461.05
10	0.00	0.00	34.90	0.03	7.06	21	1461.41
15	0.00	0.00	34.90	0.03	7.06	21	1461.77
20	0.00	0.00	34.90	0.03	7.06	21	1462.13
25	0.00	0.00	34.90	0.03	7.06	21	1462.49
30	0.00	0.00	34.90	0.03	7.06	21	1462.85
35	0.00	0.00	34.90	0.03	7.06	21	1463.21
40	0.00	0.00	34.90	0.03	7.06	21	1463.57
45	0.00	0.00	34.90	0.03	7.06	21	1463.93
50	0.00	0.00	34.90	0.03	7.06	21	1464.29
55	0.00	0.00	34.90	0.03	7.06	21	1464.65
60	0.00	0.00	34.90	0.03	7.06	21	1465.01
65	0.00	0.00	34.90	0.03	7.06	21	1465.37
70	0.00	0.00	34.90	0.03	7.06	21	1465.73
75	0.00	0.00	34.90	0.03	7.06	21	1466.09
80	0.00	0.00	34.90	0.03	7.06	21	1466.45
85	0.00	0.00	34.90	0.03	7.06	21	1466.81
90	0.00	0.00	34.90	0.03	7.06	21	1467.17
95	0.00	0.00	34.90	0.03	7.06	21	1467.53
100	0.00	0.00	34.90	0.03	7.06	21	1467.89
105	0.00	0.00	34.90	0.03	7.06	21	1468.25
110	0.00	0.00	34.90	0.03	7.06	21	1468.61
115	0.00	0.00	34.90	0.03	7.06	21	1468.97
120	0.00	0.00	34.90	0.03	7.06	21	1469.33
125	0.00	0.00	34.90	0.03	7.06	21	1469.69
130	0.00	0.00	34.90	0.03	7.06	21	1470.05
135	0.00	0.00	34.90	0.03	7.06	21	1470.41
140	0.00	0.00	34.90	0.03	7.06	21	1470.77
145	0.00	0.00	34.90	0.03	7.06	21	1471.13
150	0.00	0.00	34.90	0.03	7.06	21	1471.49
155	0.00	0.00	34.90	0.03	7.06	21	1471.85
160	0.00	0.00	34.90	0.03	7.06	21	1472.21
165	0.00	0.00	34.90	0.03	7.06	21	1472.57
170	0.00	0.00	34.90	0.03	7.06	21	1472.93
175	0.00	0.00	34.90	0.03	7.06	21	1473.29
180	0.00	0.00	34.90	0.03	7.06	21	1473.65
185	0.00	0.00	34.90	0.03	7.06	21	1474.01
190	0.00	0.00	34.90	0.03	7.06	21	1474.37
195	0.00	0.00	34.90	0.03	7.06	21	1474.73
200	0.00	0.00	34.90	0.03	7.06	21	1475.09
205	0.00	0.00	34.90	0.03	7.06	21	1475.45
210	0.00	0.00	34.90	0.03	7.06	21	1475.81
215	0.00	0.00	34.90	0.03	7.06	21	1476.17
220	0.00	0.00	34.90	0.03	7.06	21	1476.53
225	0.00	0.00	34.90	0.03	7.06	21	1476.89
230	0.00	0.00	34.90	0.03	7.06	21	1477.25
235	0.00	0.00	34.90	0.03	7.06	21	1477.61
240	0.00	0.00	34.90	0.03	7.06	21	1477.97
245	0.00	0.00	34.90	0.03	7.06	21	1478.33
250	0.00	0.00	34.90	0.03	7.06	21	1478.69
255	0.00	0.00	34.90	0.03	7.06	21	1479.05
260	0.00	0.00	34.90	0.03	7.06	21	1479.41
265	0.00	0.00	34.90	0.03	7.06	21	1479.77
270	0.00	0.00	34.90	0.03	7.06	21	1480.13
275	0.00	0.00	34.90	0.03	7.06	21	1480.49
280	0.00	0.00	34.90	0.03	7.06	21	1480.85
285	0.00	0.00	34.90	0.03	7.06	21	1481.21
290	0.00	0.00	34.90	0.03	7.06	21	1481.57
295	0.00	0.00	34.90	0.03	7.06	21	1481.93
300	0.00	0.00	34.90	0.03	7.06	21	1482.29
305	0.00	0.00	34.90	0.03	7.06	21	1482.65
310	0.00	0.00	34.90	0.03	7.06	21	1483.01
315	0.00	0.00	34.90	0.03	7.06	21	1483.37
320	0.00	0.00	34.90	0.03	7.06	21	1483.73
325	0.00	0.00	34.90	0.03	7.06	21	1484.09
330	0.00	0.00	34.90	0.03	7.06	21	1484.45
335	0.00	0.00	34.90	0.03	7.06	21	1484.81
340	0.00	0.00	34.90	0.03	7.06	21	1485.17
345	0.00	0.00	34.90	0.03	7.06	21	1485.53
350	0.00	0.00	34.90	0.03	7.06	21	1485.89
355	0.00	0.00	34.90	0.03	7.06	21	1486.25
360	0.00	0.00	34.90	0.03	7.06	21	1486.61
365	0.00	0.00	34.90	0.03	7.06	21	1486.97
370	0.00	0.00	34.90	0.03	7.06	21	1487.33
375	0.00	0.00	34.90	0.03	7.06	21	1487.69
380	0.00	0.00	34.90	0.03	7.06	21	1488.05
385	0.00	0.00	34.90	0.03	7.06	21	1488.41
390	0.00	0.00	34.90	0.03	7.06	21	1488.77
395	0.00	0.00	34.90	0.03	7.06	21	1489.13
400	0.00	0.00	34.90	0.03	7.06	21	1489.49
405	0.00	0.00	34.90	0.03	7.06	21	1489.85
410	0.00	0.00	34.90	0.03	7.06	21	1490.21
415	0.00	0.00	34.90	0.03	7.06	21	1490.57
420	0.00	0.00	34.90	0.03	7.06	21	1490.93
425	0.00	0.00	34.90	0.03	7.06	21	1491.29
430	0.00	0.00	34.90	0.03	7.06	21	1491.65
435	0.00	0.00	34.90	0.03	7.06	21	1492.01
440	0.00	0.00	34.90	0.03	7.06	21	1492.37
445	0.00	0.00	34.90	0.03	7.06	21	1492.73
450	0.00	0.00	34.90	0.03	7.06	21	1493.09
455	0.00	0.00	34.90	0.03	7.06	21	1493.45
460	0.00	0.00	34.90	0.03	7.06	21	1493.81
465	0.00	0.00	34.90	0.03	7.06	21	1494.17
470	0.00	0.00	34.90	0.03	7.06	21	1494.53
475	0.00	0.00	34.90	0.03	7.06	21	1494.89
480	0.00	0.00	34.90	0.03	7.06	21	1495.25
485	0.00	0.00	34.90	0.03	7.06	21	1495.61
490	0.00	0.00	34.90	0.03	7.06	21	1495.97
495	0.00	0.00	34.90	0.03	7.06	21	1496.33
500	0.00	0.00	34.90	0.03	7.06	21	1496.69
505	0.00	0.00	34.90	0.03	7.06	21	1497.05
510	0.00	0.00	34.90	0.03	7.06	21	1497.41
515	0.00	0.00	34.90	0.03	7.06	21	1497.77
520	0.00	0.00	34.90	0.03	7.06	21	1498.13
525	0.00	0.00	34.90	0.03	7.06	21	1498.49
530	0.00	0.00	34.90	0.03	7.06	21	1498.85
535	0.00	0.00	34.90	0.03	7.06	21	1499.21
540	0.00	0.00	34.90	0.03	7.06	21	1499.57
545	0.00	0.00	34.90	0.03	7.06	21	1499.93
550	0.00	0.00	34.90	0.03	7.06	21	1500.29
555	0.00	0.00	34.90	0.03	7.06	21	1500.65
560	0.00	0.00	34.90	0.03	7.06	21	1501.01
565	0.00	0.00	34.90	0.03	7.06	21	1501.37
570	0.00	0.00	34.90	0.03	7.06	21	1501.73
575	0.00	0.00	34.90	0.03	7.06	21	1502.09
580	0.00	0.00	34.90	0.03	7.06	21	1502.45
585	0.00	0.00	34.90	0.03	7.06	21	1502.81
590	0.00	0.00	34.90	0.03	7.06	21	1503.17
595	0.00	0.00	34.90	0.03	7.06	21	1503.53
600	0.00	0.00	34.90	0.03	7.06	21	1503.89
605	0.00	0.00	34.90	0.03	7.06	21	1504.25
610	0.00	0.00	34.90	0.03	7.06	21	1504.61
615	0.00	0.00	34.90	0.03	7.06	21	1504.97
620	0.00	0.00	34.90	0.03	7.06	21	1505.33
625	0.00	0.00	34.90	0.03	7.06	21	1505.69
630	0.00	0.00	34.90	0.03	7.06	21	1506.05
635	0.00	0.00	34.90	0.03	7.06	21	1506.41
640	0.00	0.00	34.90	0.03	7.06	21	1506.77
645	0.00	0.00	34.90	0.03	7.06	21	1507.13
650	0.00	0.00	34.90	0.03	7.06	21	1507.49
655	0.00	0.00	34.90	0.03	7.06	21	1507.85
660	0.00	0.00	34.90	0.03	7.06	21	1508.21
665	0.00	0.00	34.90	0.03	7.06	21	1508.57
670	0.00	0.00	34.90	0.03	7.06	21	1508.93
675	0.00	0.00	34.90	0.03	7.06	21	1509.29
680	0.00	0.00	34.90	0.03	7.06	21	1509.65
685	0.00	0.00	34.90	0.03	7.06	21	1510.01
690	0.00	0.00	34.90	0.03	7.06	21	1510.37
695	0.00	0.00	34.90	0.03	7.06	21	1510.73
700	0.00	0.00	34.90	0.03	7.06	21	1511.09
705	0.00	0.00	34.90	0.03	7.06	21	1511.45
710	0.00	0.00	34.90	0.03	7.06	21	1511.81
715	0.00	0.00	34.90	0.03	7.06	21	1512.17
720	0.00	0.00	34.90	0.03	7.06	21	1512.53
725	0.00	0.00	34.90	0.03	7.06	21	1512.89
730	0.00	0.00	34.90	0.03	7.06	21	1513.25
735	0.00	0.00	34.90	0.03	7.06	21	1513.61
740	0.00	0.00	34.90	0.03	7.06	21	1513.97
745	0.00	0.00	34.90	0.03	7.06	21	1514.33
750	0.00	0.00	34.90	0.03	7.06	21	1514.69
755	0.00	0.00	34.90	0.03	7.06	21	1515.05
760	0.00	0.00	34.90	0.03	7.06	21	1515.41
765	0.00	0.00	34.90	0.03	7.06	21	1515.77
770	0.00	0.00	34.90	0.03	7.06	21	1516.13
775	0.00	0.00	34.90	0.03	7.06	21	1516.49
780	0.00	0.00	34.90	0.03	7.06	21	1516.85
785	0.00	0.00	34.90	0.03	7.06	21	1517.21
790							

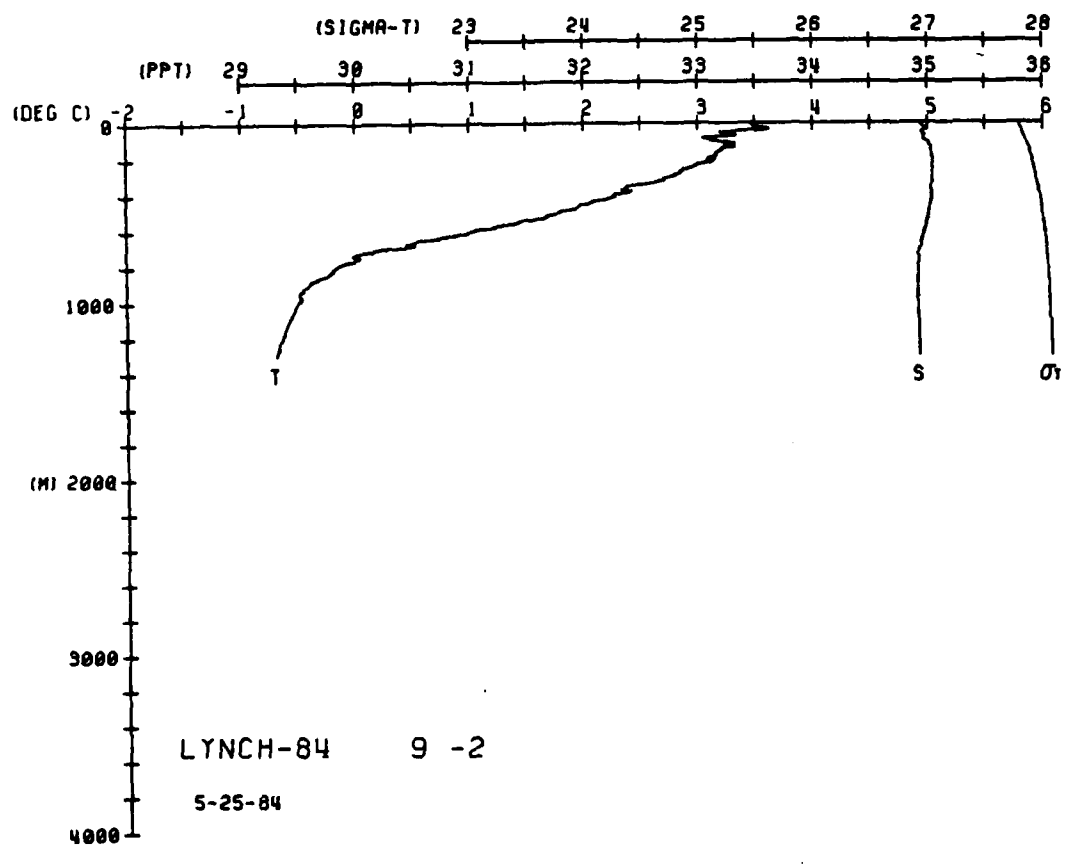
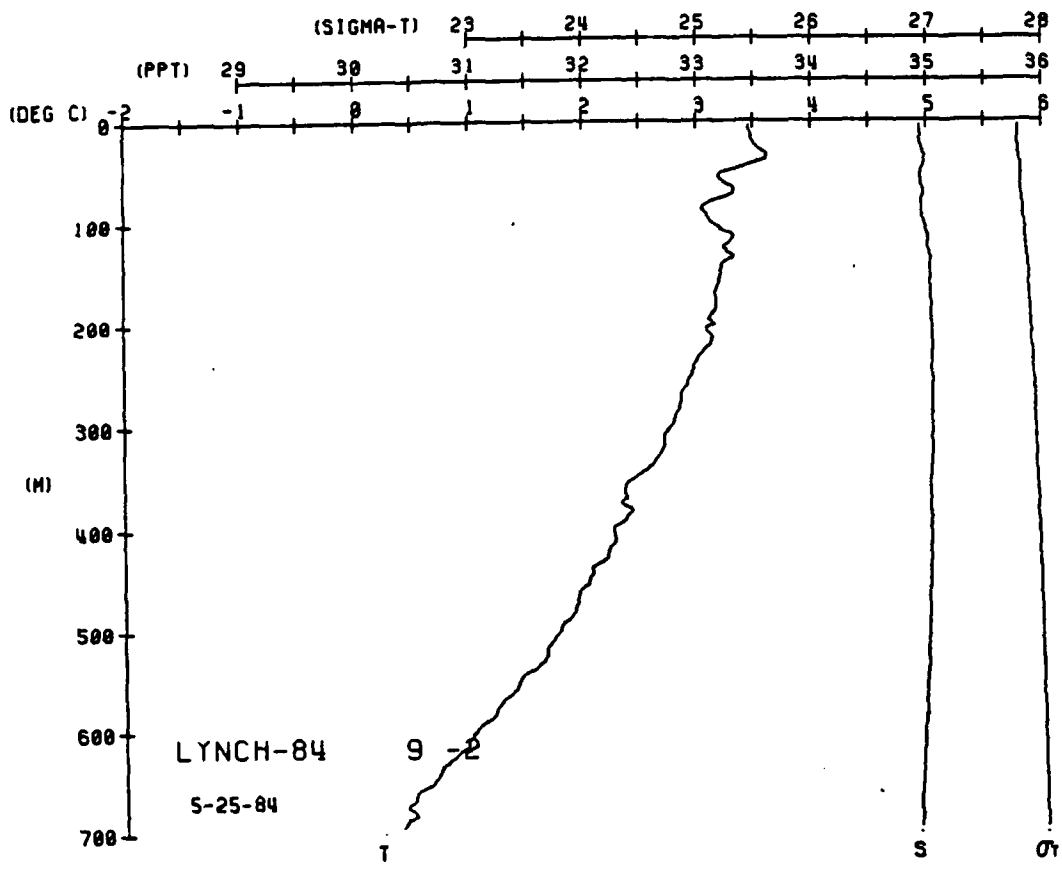






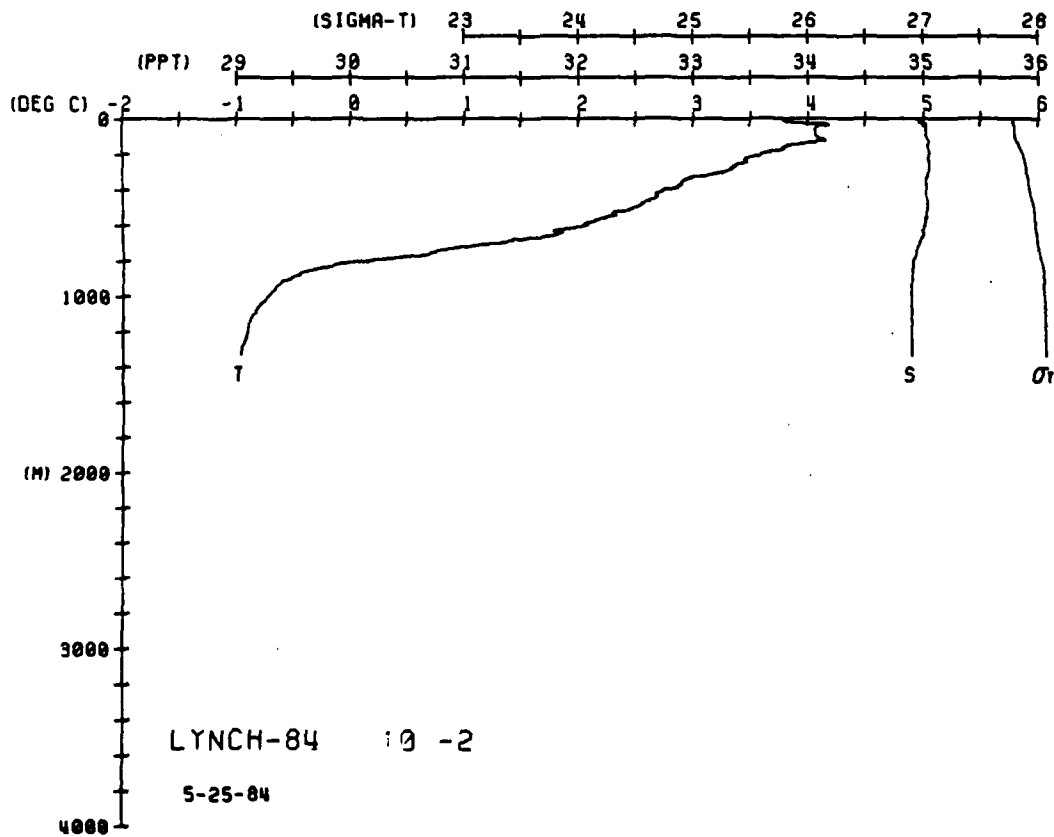
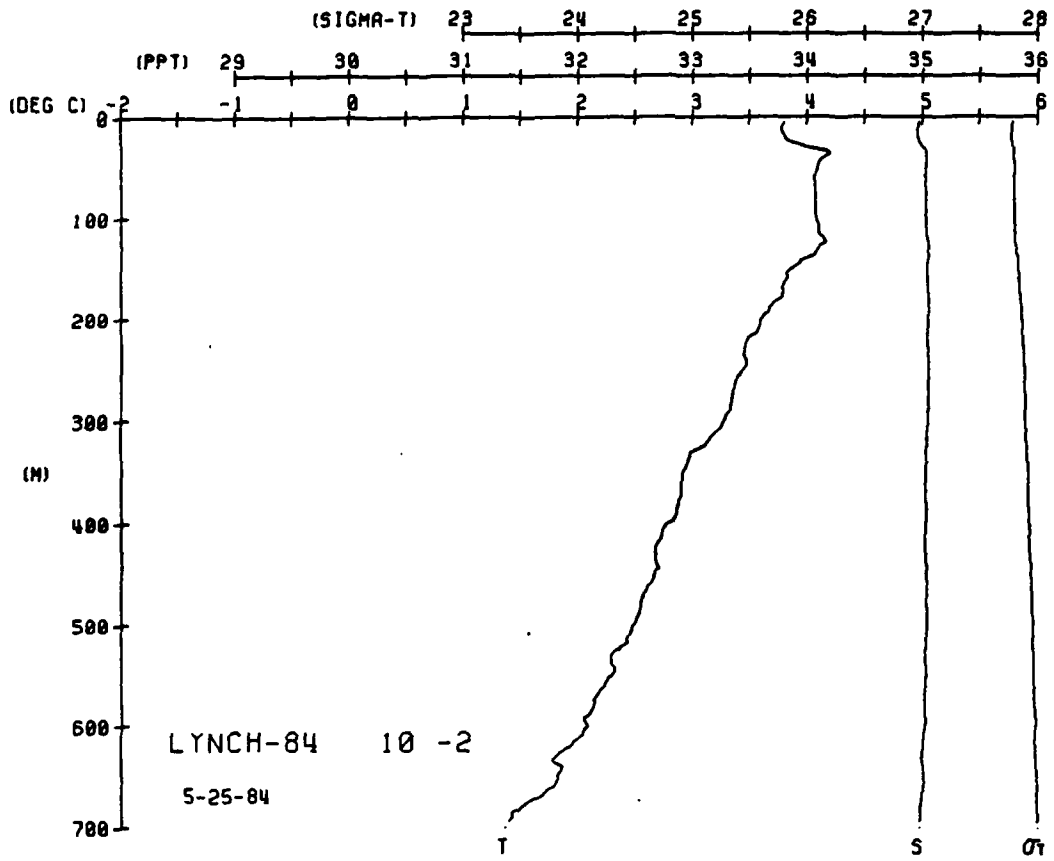
LINCH-84 STATION 9(2) CTD 25/MAY/1984 257 CRT CUDE = 5
LAT = 78.9233N LNC = 5.4367E LTER = 30 LGR = 30
AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

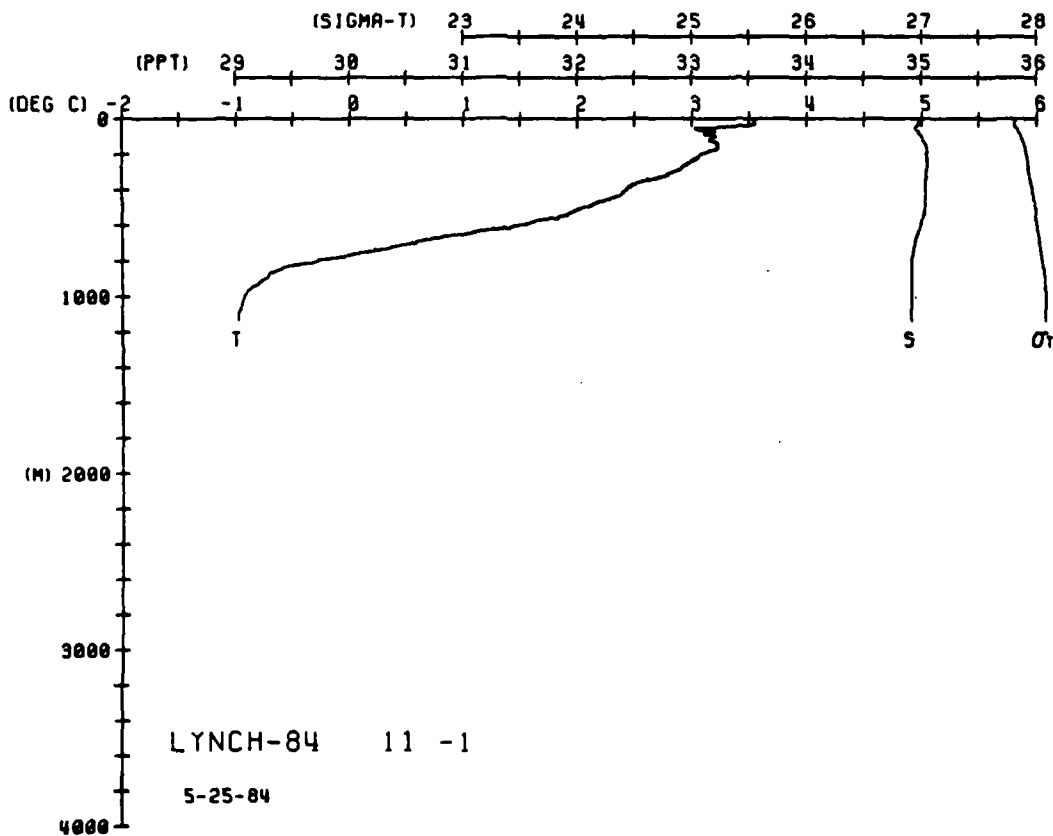
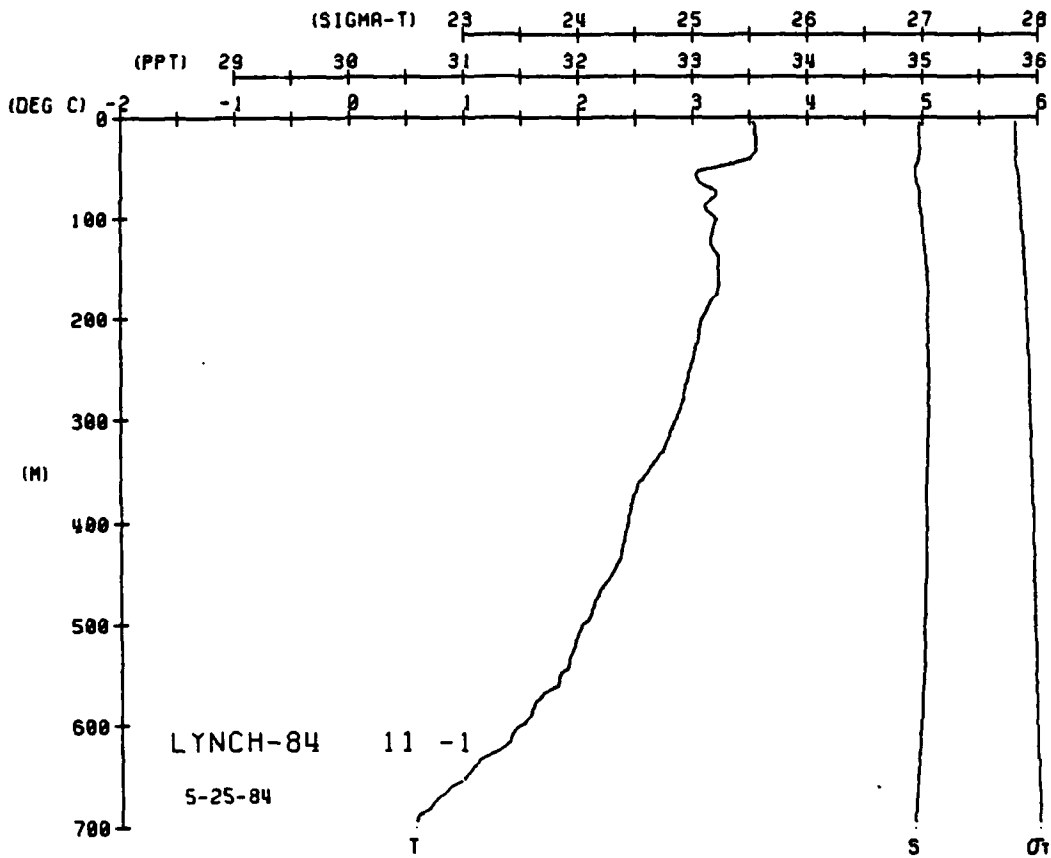
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DIMHT	SOUND
0	1.0	0.0	24.9	0.000	7.47	1.27	1.1
10	1.0	0.0	24.9	0.000	7.47	1.27	1.1
20	1.0	0.0	24.9	0.000	7.47	1.27	1.1
30	1.0	0.0	24.9	0.000	7.47	1.27	1.1
40	1.0	0.0	24.9	0.000	7.47	1.27	1.1
50	1.0	0.0	24.9	0.000	7.47	1.27	1.1
60	1.0	0.0	24.9	0.000	7.47	1.27	1.1
70	1.0	0.0	24.9	0.000	7.47	1.27	1.1
80	1.0	0.0	24.9	0.000	7.47	1.27	1.1
90	1.0	0.0	24.9	0.000	7.47	1.27	1.1
100	1.0	0.0	24.9	0.000	7.47	1.27	1.1
110	1.0	0.0	24.9	0.000	7.47	1.27	1.1
120	1.0	0.0	24.9	0.000	7.47	1.27	1.1
130	1.0	0.0	24.9	0.000	7.47	1.27	1.1
140	1.0	0.0	24.9	0.000	7.47	1.27	1.1
150	1.0	0.0	24.9	0.000	7.47	1.27	1.1
160	1.0	0.0	24.9	0.000	7.47	1.27	1.1
170	1.0	0.0	24.9	0.000	7.47	1.27	1.1
180	1.0	0.0	24.9	0.000	7.47	1.27	1.1
190	1.0	0.0	24.9	0.000	7.47	1.27	1.1
200	1.0	0.0	24.9	0.000	7.47	1.27	1.1
210	1.0	0.0	24.9	0.000	7.47	1.27	1.1
220	1.0	0.0	24.9	0.000	7.47	1.27	1.1
230	1.0	0.0	24.9	0.000	7.47	1.27	1.1
240	1.0	0.0	24.9	0.000	7.47	1.27	1.1
250	1.0	0.0	24.9	0.000	7.47	1.27	1.1
260	1.0	0.0	24.9	0.000	7.47	1.27	1.1
270	1.0	0.0	24.9	0.000	7.47	1.27	1.1
280	1.0	0.0	24.9	0.000	7.47	1.27	1.1
290	1.0	0.0	24.9	0.000	7.47	1.27	1.1
300	1.0	0.0	24.9	0.000	7.47	1.27	1.1



LYNCH-84 STATION 10(2) CTD 25/MAY/1984 636 GMT CODE = 5
 LAT = 78.5528N LONG = 6.4820E LTR = 30. UGER = 30.
 AIR TEMP = 0.0 BAROM = 0.0 WIND = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DIMHI	SOUND
0	1.00	1.00	34.95	228.00	12.00	153	1465.0
1	1.00	1.00	34.95	228.00	12.00	153	1465.0
2	1.00	1.00	34.95	228.00	12.00	153	1465.0
3	1.00	1.00	34.95	228.00	12.00	153	1465.0
4	1.00	1.00	34.95	228.00	12.00	153	1465.0
5	1.00	1.00	34.95	228.00	12.00	153	1465.0
6	1.00	1.00	34.95	228.00	12.00	153	1465.0
7	1.00	1.00	34.95	228.00	12.00	153	1465.0
8	1.00	1.00	34.95	228.00	12.00	153	1465.0
9	1.00	1.00	34.95	228.00	12.00	153	1465.0
10	1.00	1.00	34.95	228.00	12.00	153	1465.0
11	1.00	1.00	34.95	228.00	12.00	153	1465.0
12	1.00	1.00	34.95	228.00	12.00	153	1465.0
13	1.00	1.00	34.95	228.00	12.00	153	1465.0
14	1.00	1.00	34.95	228.00	12.00	153	1465.0
15	1.00	1.00	34.95	228.00	12.00	153	1465.0
16	1.00	1.00	34.95	228.00	12.00	153	1465.0
17	1.00	1.00	34.95	228.00	12.00	153	1465.0
18	1.00	1.00	34.95	228.00	12.00	153	1465.0
19	1.00	1.00	34.95	228.00	12.00	153	1465.0
20	1.00	1.00	34.95	228.00	12.00	153	1465.0
21	1.00	1.00	34.95	228.00	12.00	153	1465.0
22	1.00	1.00	34.95	228.00	12.00	153	1465.0
23	1.00	1.00	34.95	228.00	12.00	153	1465.0
24	1.00	1.00	34.95	228.00	12.00	153	1465.0
25	1.00	1.00	34.95	228.00	12.00	153	1465.0
26	1.00	1.00	34.95	228.00	12.00	153	1465.0
27	1.00	1.00	34.95	228.00	12.00	153	1465.0
28	1.00	1.00	34.95	228.00	12.00	153	1465.0
29	1.00	1.00	34.95	228.00	12.00	153	1465.0
30	1.00	1.00	34.95	228.00	12.00	153	1465.0
31	1.00	1.00	34.95	228.00	12.00	153	1465.0
32	1.00	1.00	34.95	228.00	12.00	153	1465.0
33	1.00	1.00	34.95	228.00	12.00	153	1465.0
34	1.00	1.00	34.95	228.00	12.00	153	1465.0
35	1.00	1.00	34.95	228.00	12.00	153	1465.0
36	1.00	1.00	34.95	228.00	12.00	153	1465.0
37	1.00	1.00	34.95	228.00	12.00	153	1465.0
38	1.00	1.00	34.95	228.00	12.00	153	1465.0
39	1.00	1.00	34.95	228.00	12.00	153	1465.0
40	1.00	1.00	34.95	228.00	12.00	153	1465.0
41	1.00	1.00	34.95	228.00	12.00	153	1465.0
42	1.00	1.00	34.95	228.00	12.00	153	1465.0
43	1.00	1.00	34.95	228.00	12.00	153	1465.0
44	1.00	1.00	34.95	228.00	12.00	153	1465.0
45	1.00	1.00	34.95	228.00	12.00	153	1465.0
46	1.00	1.00	34.95	228.00	12.00	153	1465.0
47	1.00	1.00	34.95	228.00	12.00	153	1465.0
48	1.00	1.00	34.95	228.00	12.00	153	1465.0
49	1.00	1.00	34.95	228.00	12.00	153	1465.0
50	1.00	1.00	34.95	228.00	12.00	153	1465.0

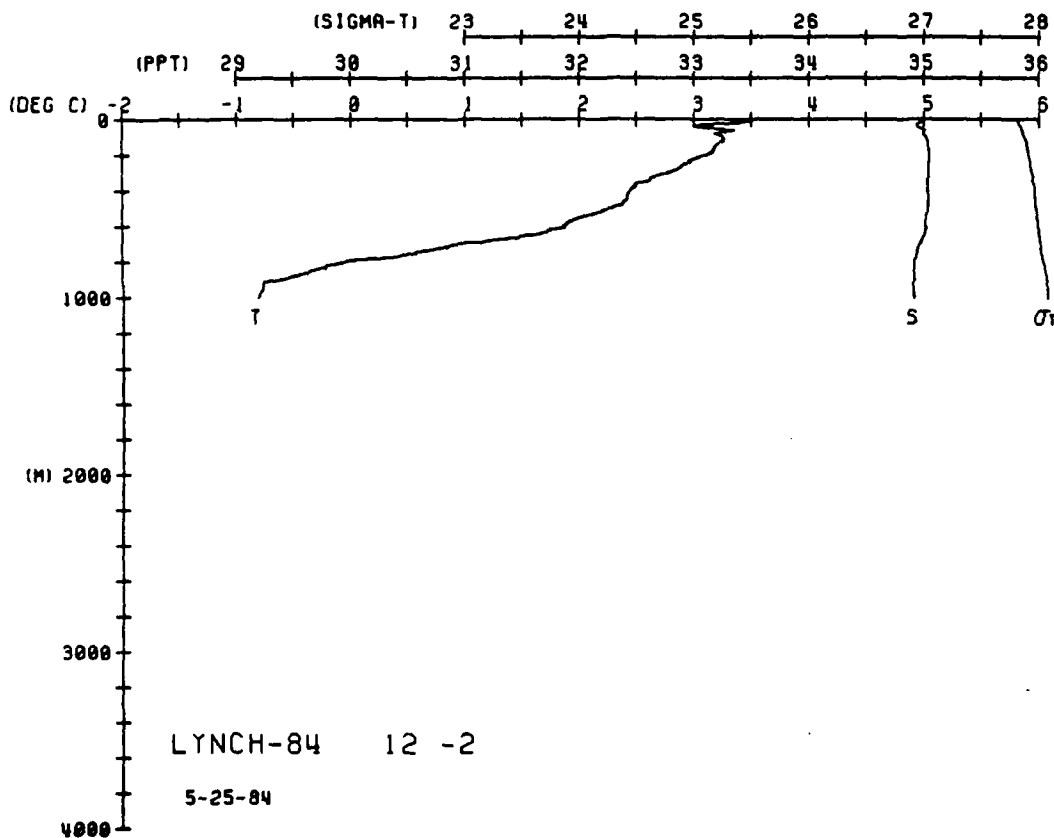
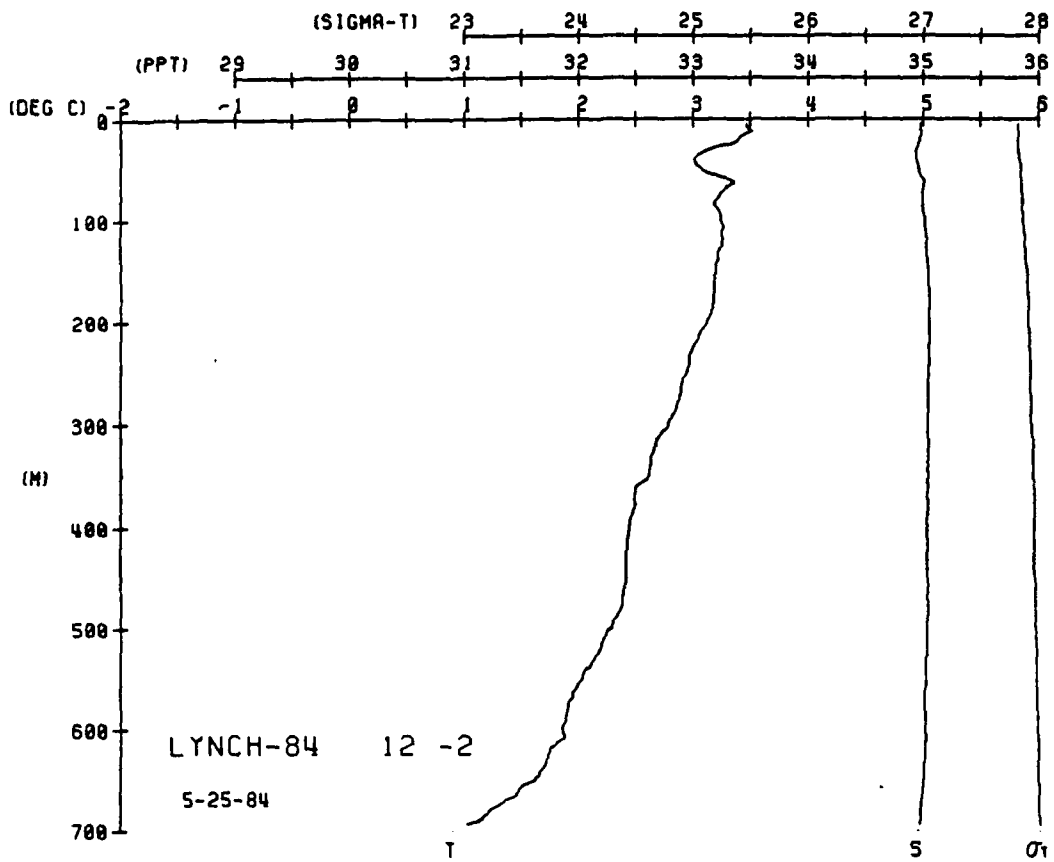


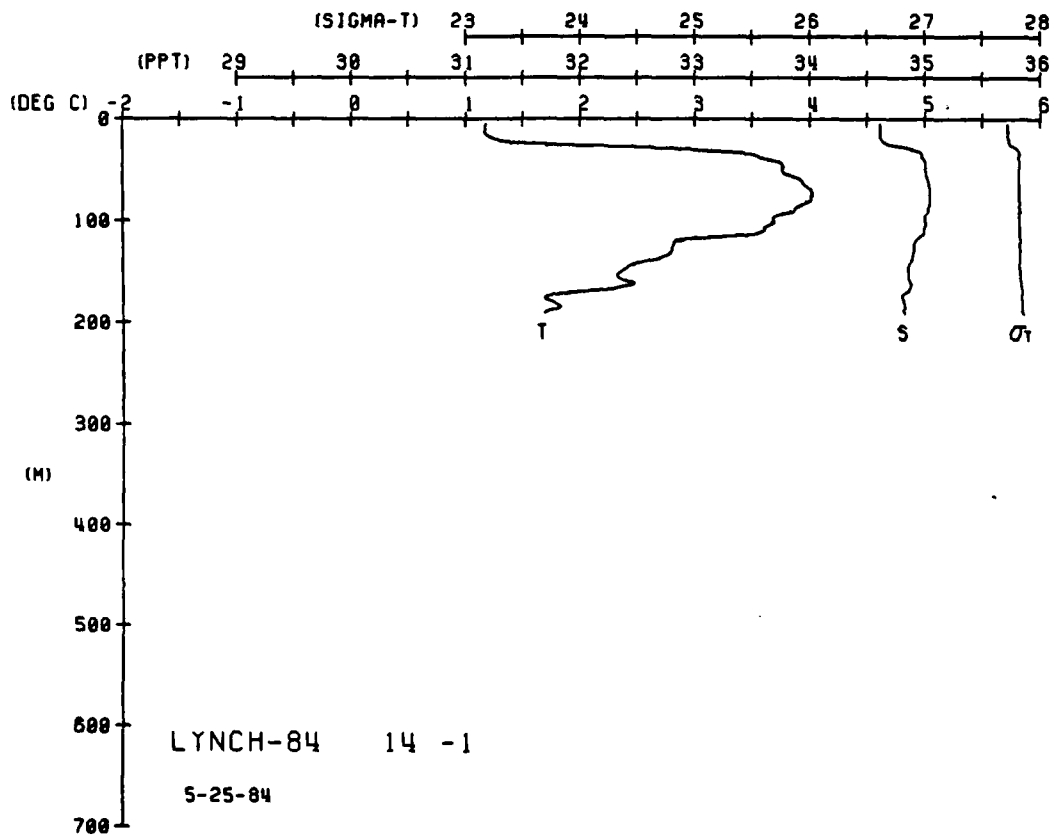
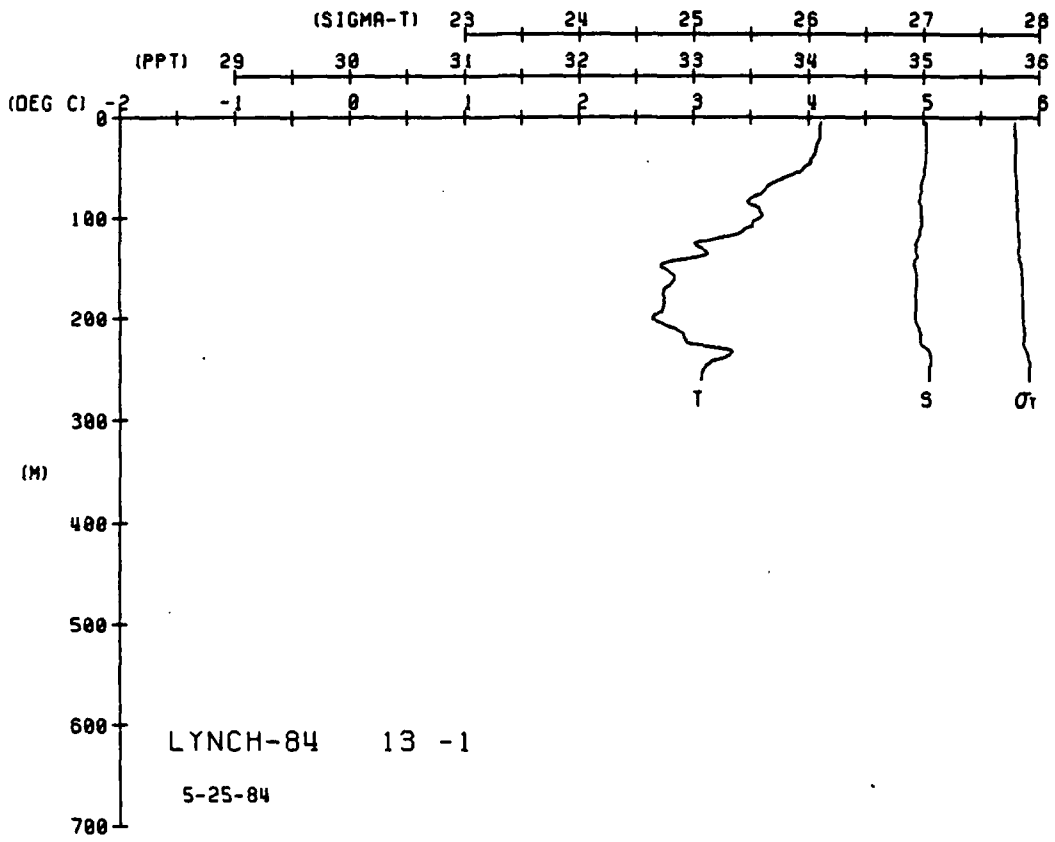


LYNCH-84 STATION 12(2) CID 25/MAY/1984 1125 GMT CODE = 5
 LAT = 78.9328N LNG = 0.0428E LTKR = 30
 AIR TEMP = 0.0 BAHOM = 0.0 WIND = 0.0 UGR = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIC I	SPYUL	DINH1	SOUND
0	0.60	0.83	34.96	22.03	9.6	128	1461.3
5	0.57	0.82	34.95	22.03	9.6	128	1461.5
10	0.57	0.82	34.95	22.03	9.6	128	1461.5
15	0.57	0.82	34.95	22.03	9.6	128	1461.5
20	0.57	0.82	34.95	22.03	9.6	128	1461.5
25	0.57	0.82	34.95	22.03	9.6	128	1461.5
30	0.57	0.82	34.95	22.03	9.6	128	1461.5
35	0.57	0.82	34.95	22.03	9.6	128	1461.5
40	0.57	0.82	34.95	22.03	9.6	128	1461.5
45	0.57	0.82	34.95	22.03	9.6	128	1461.5
50	0.57	0.82	34.95	22.03	9.6	128	1461.5
55	0.57	0.82	34.95	22.03	9.6	128	1461.5
60	0.57	0.82	34.95	22.03	9.6	128	1461.5
65	0.57	0.82	34.95	22.03	9.6	128	1461.5
70	0.57	0.82	34.95	22.03	9.6	128	1461.5
75	0.57	0.82	34.95	22.03	9.6	128	1461.5
80	0.57	0.82	34.95	22.03	9.6	128	1461.5
85	0.57	0.82	34.95	22.03	9.6	128	1461.5
90	0.57	0.82	34.95	22.03	9.6	128	1461.5
95	0.57	0.82	34.95	22.03	9.6	128	1461.5
100	0.57	0.82	34.95	22.03	9.6	128	1461.5

DEPTH	TEMP	PTEMP	SALIN	SIC I	SPYUL	DINH1	SOUND
0	0.60	0.83	34.96	22.03	9.6	128	1461.3
5	0.57	0.82	34.95	22.03	9.6	128	1461.5
10	0.57	0.82	34.95	22.03	9.6	128	1461.5
15	0.57	0.82	34.95	22.03	9.6	128	1461.5
20	0.57	0.82	34.95	22.03	9.6	128	1461.5
25	0.57	0.82	34.95	22.03	9.6	128	1461.5
30	0.57	0.82	34.95	22.03	9.6	128	1461.5
35	0.57	0.82	34.95	22.03	9.6	128	1461.5
40	0.57	0.82	34.95	22.03	9.6	128	1461.5
45	0.57	0.82	34.95	22.03	9.6	128	1461.5
50	0.57	0.82	34.95	22.03	9.6	128	1461.5
55	0.57	0.82	34.95	22.03	9.6	128	1461.5
60	0.57	0.82	34.95	22.03	9.6	128	1461.5
65	0.57	0.82	34.95	22.03	9.6	128	1461.5
70	0.57	0.82	34.95	22.03	9.6	128	1461.5
75	0.57	0.82	34.95	22.03	9.6	128	1461.5
80	0.57	0.82	34.95	22.03	9.6	128	1461.5
85	0.57	0.82	34.95	22.03	9.6	128	1461.5
90	0.57	0.82	34.95	22.03	9.6	128	1461.5
95	0.57	0.82	34.95	22.03	9.6	128	1461.5
100	0.57	0.82	34.95	22.03	9.6	128	1461.5



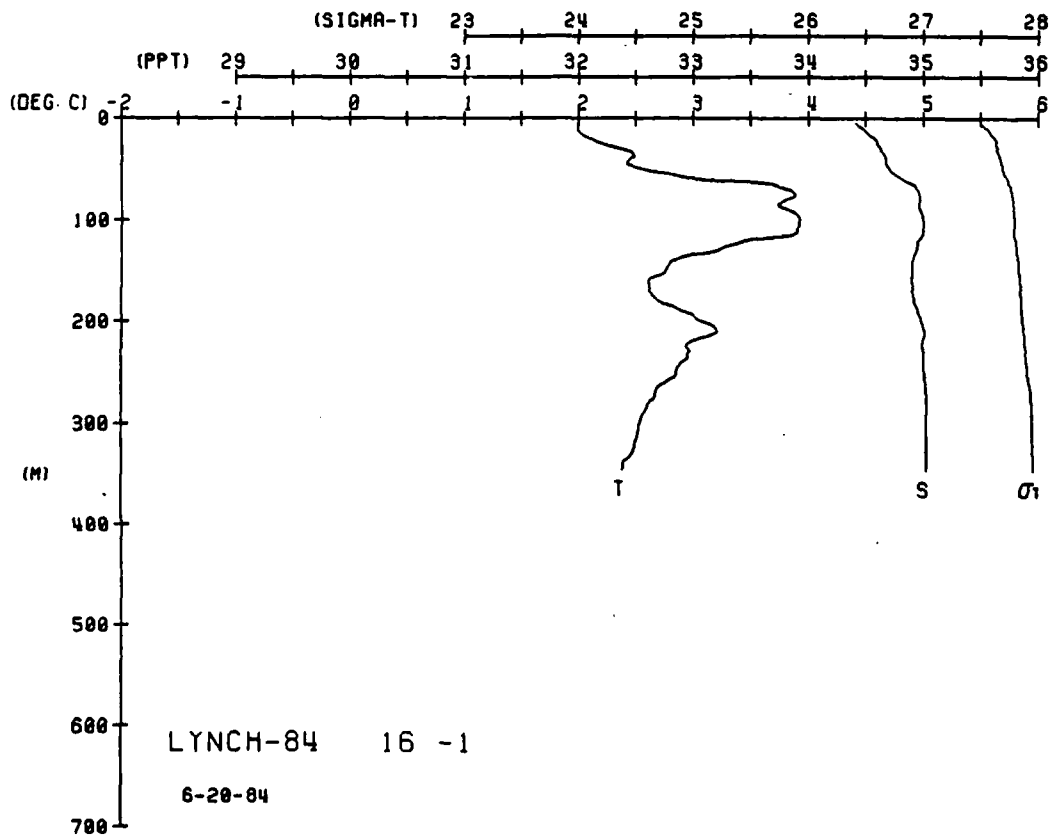
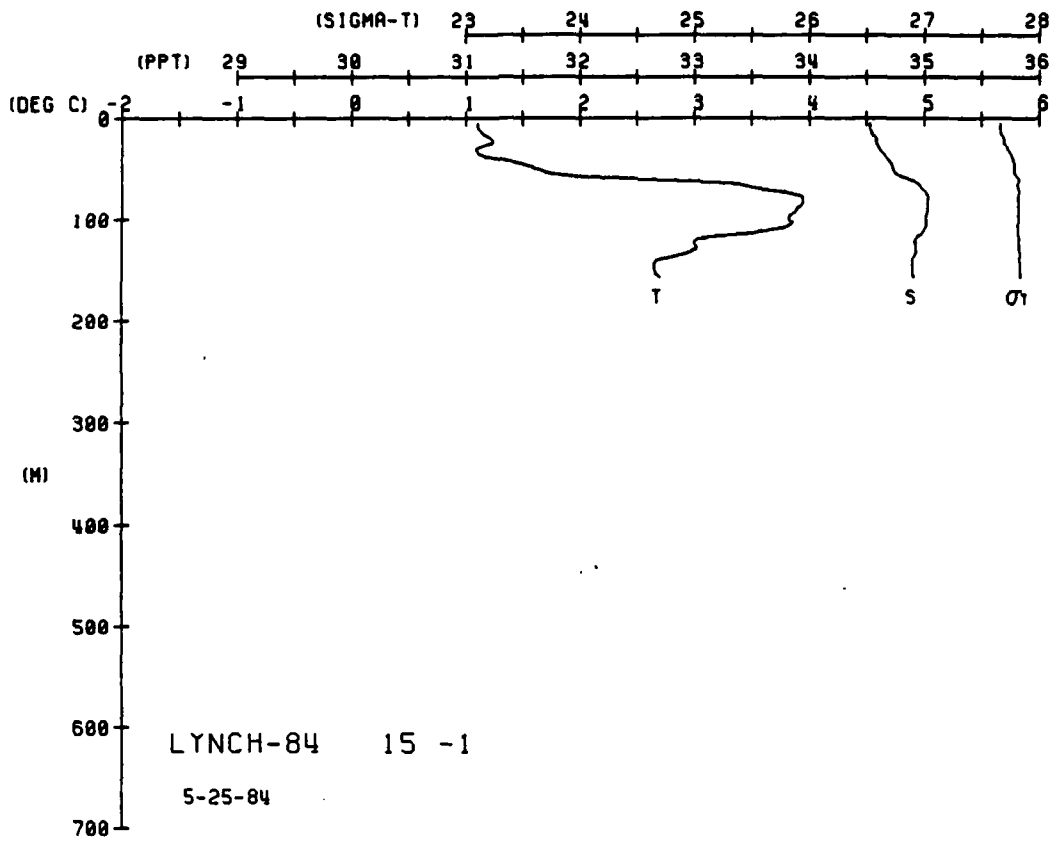


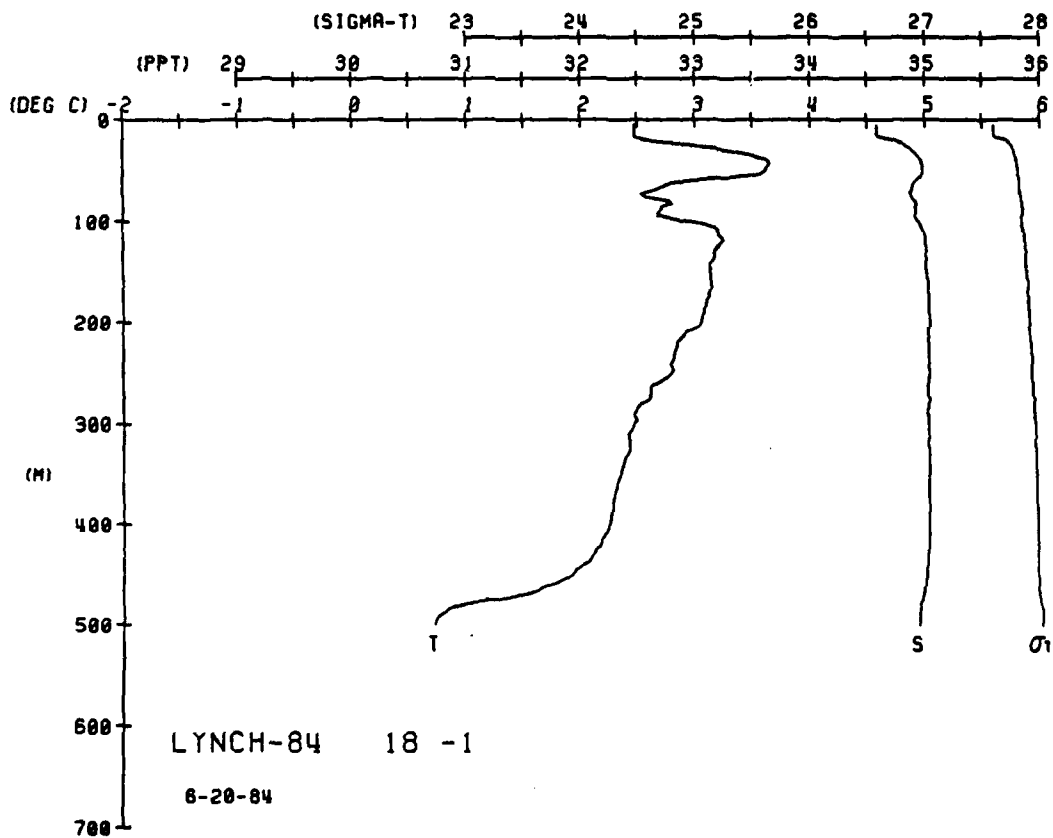
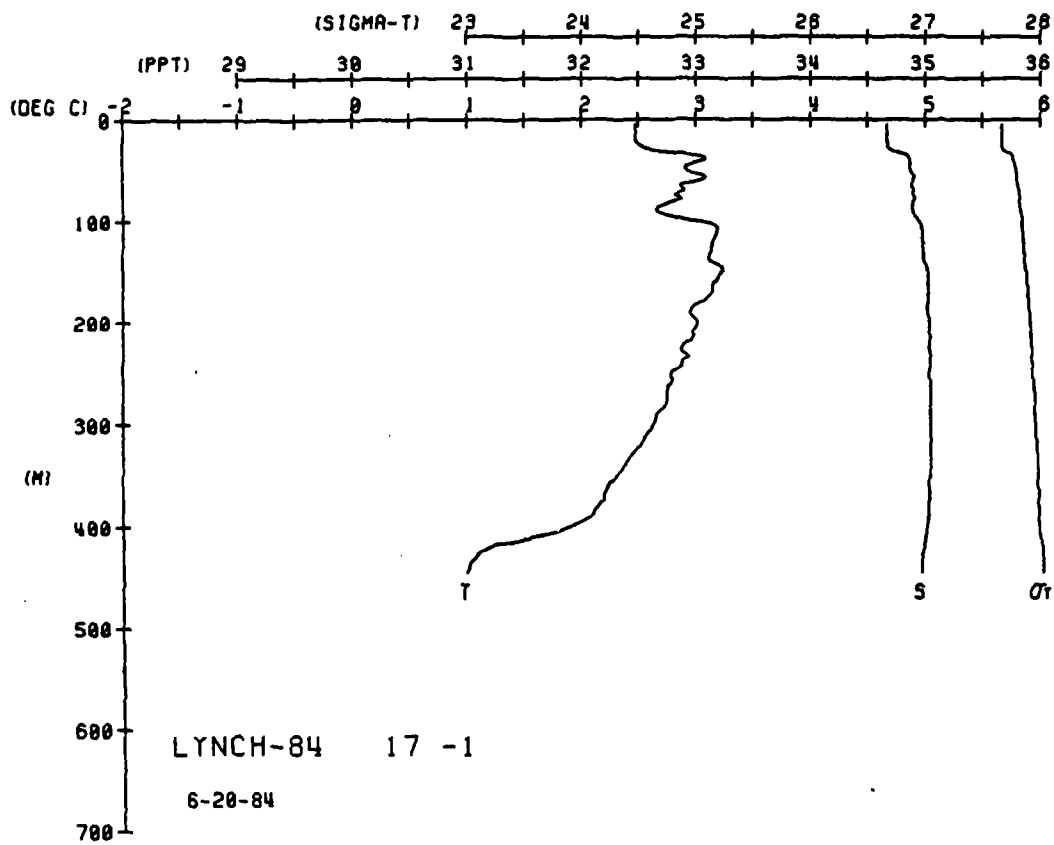
LYNCH-88 STATION 15(1) CTD 25/MAY/1984 1610 GMT CODE = 5
LAT = 78.9737N LNC = 9.6185E LTER = 30. LGER = 30.
AIR TEMP = 0.0 BARM = 0.0 WIND = 1.0

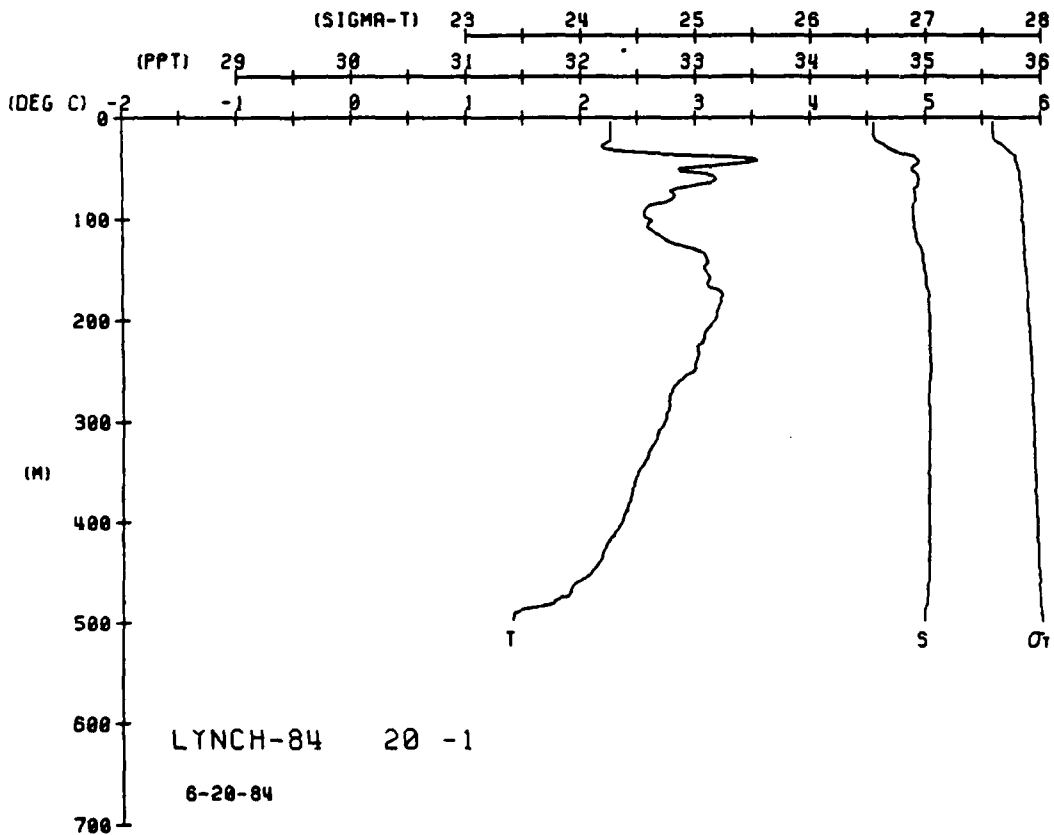
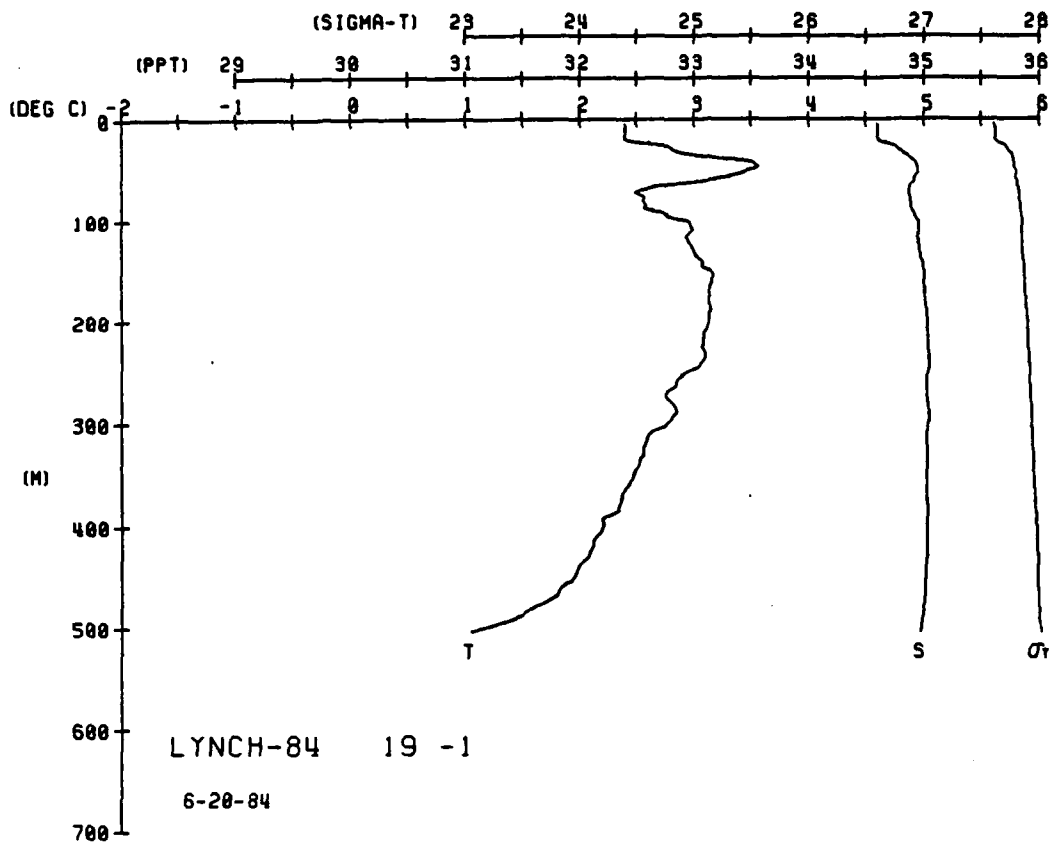
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1	11.12	11.12	33.33	7.66	42.14	00	1457.3
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3	11.12	11.12	33.33	7.66	42.14	00	1457.3
4	11.12	11.12	33.33	7.66	42.14	00	1457.3
5	11.12	11.12	33.33	7.66	42.14	00	1457.3
6	11.12	11.12	33.33	7.66	42.14	00	1457.3
7	11.12	11.12	33.33	7.66	42.14	00	1457.3
8	11.12	11.12	33.33	7.66	42.14	00	1457.3
9	11.12	11.12	33.33	7.66	42.14	00	1457.3
10	11.12	11.12	33.33	7.66	42.14	00	1457.3
15	11.12	11.12	33.33	7.66	42.14	00	1457.3
20	11.12	11.12	33.33	7.66	42.14	00	1457.3
25	11.12	11.12	33.33	7.66	42.14	00	1457.3
30	11.12	11.12	33.33	7.66	42.14	00	1457.3
35	11.12	11.12	33.33	7.66	42.14	00	1457.3
40	11.12	11.12	33.33	7.66	42.14	00	1457.3
45	11.12	11.12	33.33	7.66	42.14	00	1457.3
50	11.12	11.12	33.33	7.66	42.14	00	1457.3
55	11.12	11.12	33.33	7.66	42.14	00	1457.3
60	11.12	11.12	33.33	7.66	42.14	00	1457.3
65	11.12	11.12	33.33	7.66	42.14	00	1457.3
70	11.12	11.12	33.33	7.66	42.14	00	1457.3
75	11.12	11.12	33.33	7.66	42.14	00	1457.3
80	11.12	11.12	33.33	7.66	42.14	00	1457.3
85	11.12	11.12	33.33	7.66	42.14	00	1457.3
90	11.12	11.12	33.33	7.66	42.14	00	1457.3
95	11.12	11.12	33.33	7.66	42.14	00	1457.3
100	11.12	11.12	33.33	7.66	42.14	00	1457.3

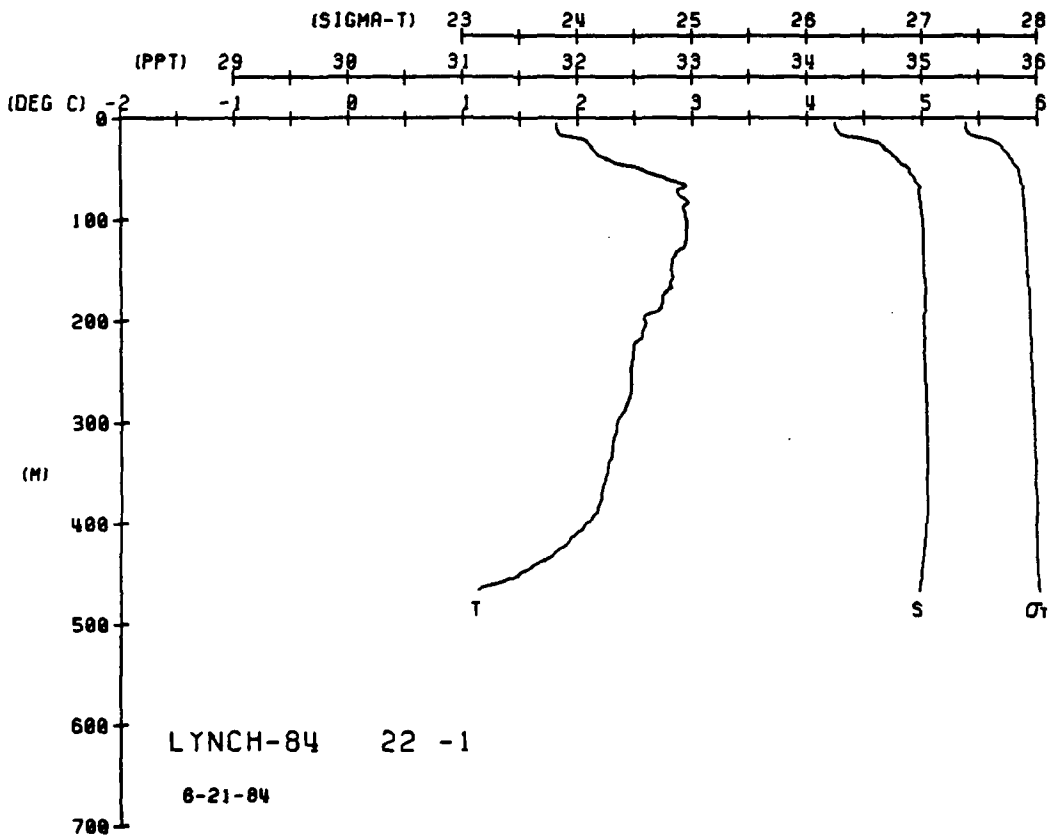
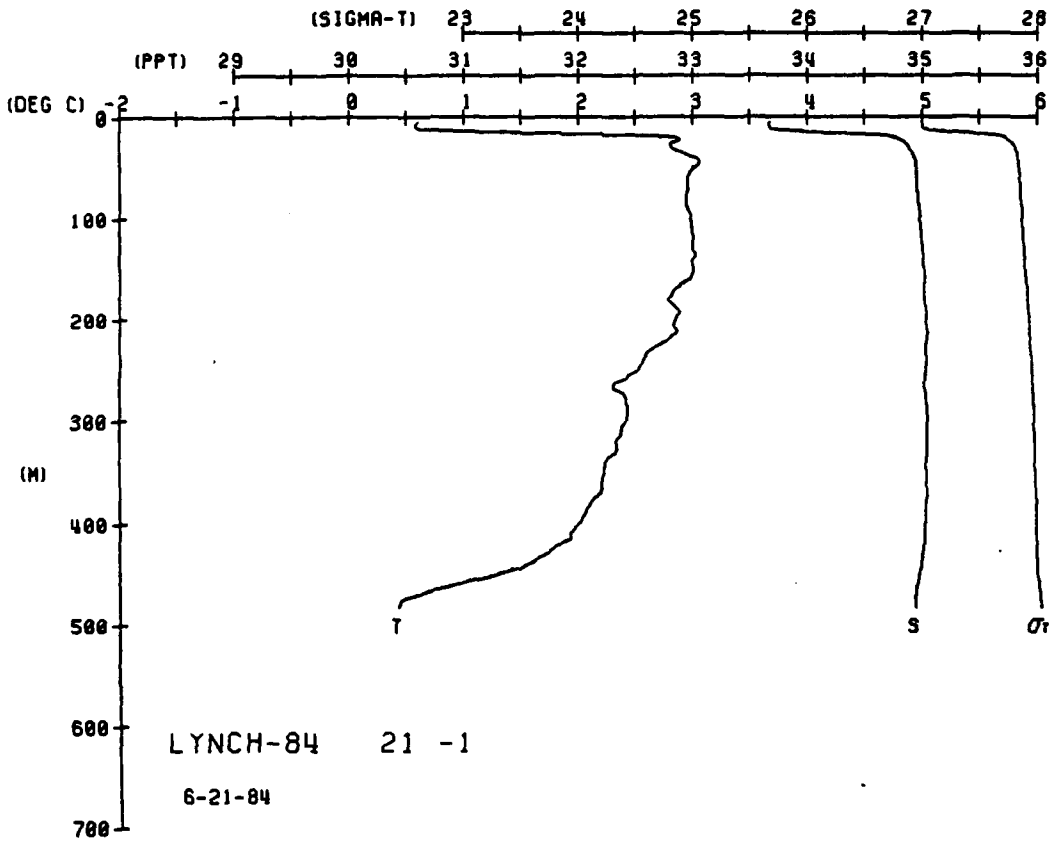
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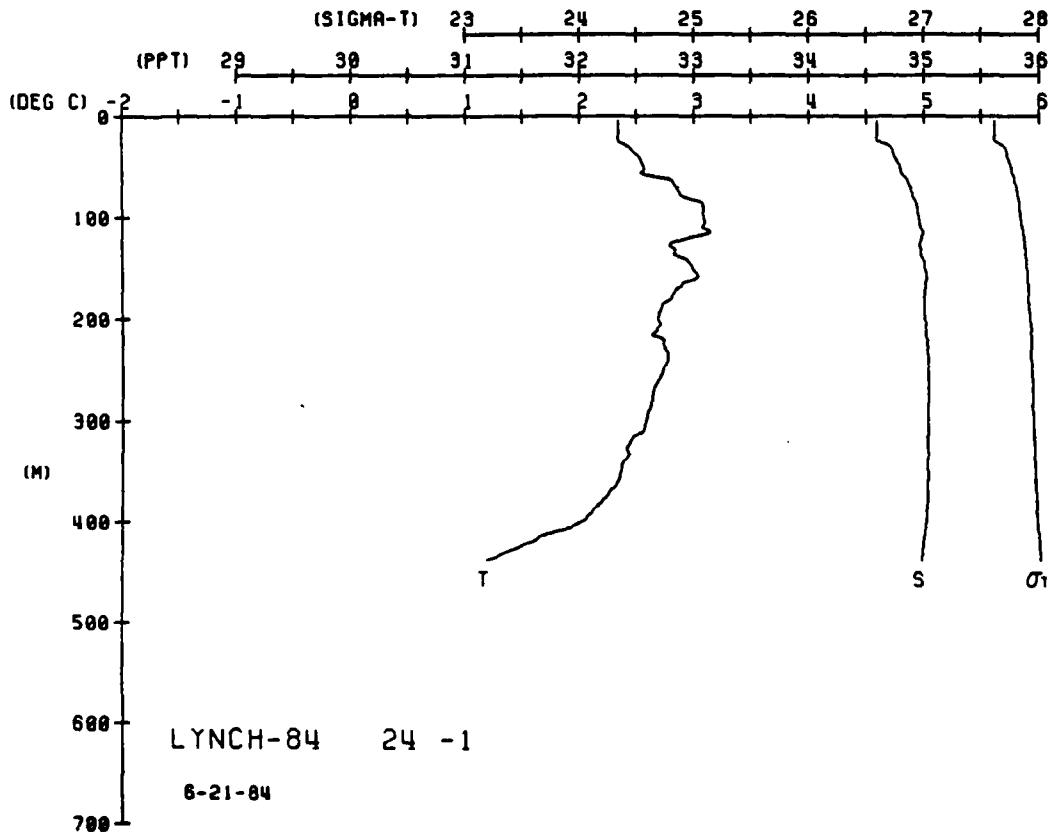
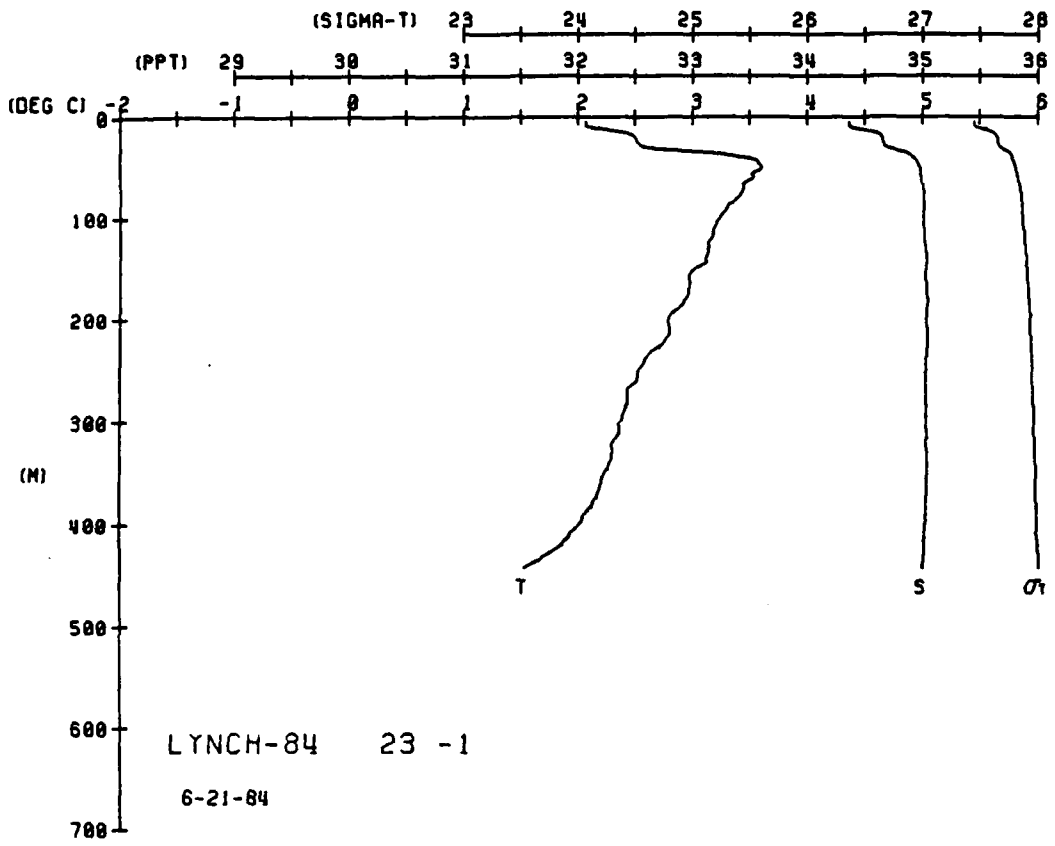
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHNT	SOUND
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1	11.12	11.12	33.33	7.66	42.14	00	1457.3
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3	11.12	11.12	33.33	7.66	42.14	00	1457.3
4	11.12	11.12	33.33	7.66	42.14	00	1457.3
5	11.12	11.12	33.33	7.66	42.14	00	1457.3
6	11.12	11.12	33.33	7.66	42.14	00	1457.3
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8	11.12	11.12	33.33	7.66	42.14	00	1457.3
9	11.12	11.12	33.33	7.66	42.14	00	1457.3
10	11.12	11.12	33.33	7.66	42.14	00	1457.3
15	11.12	11.12	33.33	7.66	42.14	00	1457.3
20	11.12	11.12	33.33	7.66	42.14	00	1457.3
25	11.12	11.12	33.33	7.66	42.14	00	1457.3
30	11.12	11.12	33.33	7.66	42.14	00	1457.3
35	11.12	11.12	33.33	7.66	42.14	00	1457.3
40	11.12	11.12	33.33	7.66	42.14	00	1457.3
45	11.12	11.12	33.33	7.66	42.14	00	1457.3
50	11.12	11.12	33.33	7.66	42.14	00	1457.3
55	11.12	11.12	33.33	7.66	42.14	00	1457.3
60	11.12	11.12	33.33	7.66	42.14	00	1457.3
65	11.12	11.12	33.33	7.66	42.14	00	1457.3
70	11.12	11.12	33.33	7.66	42.14	00	1457.3
75	11.12	11.12	33.33	7.66	42.14	00	1457.3
80	11.12	11.12	33.33	7.66	42.14	00	1457.3
85	11.12	11.12	33.33	7.66	42.14	00	1457.3
90	11.12	11.12	33.33	7.66	42.14	00	1457.3
95	11.12	11.12	33.33	7.66	42.14	00	1457.3
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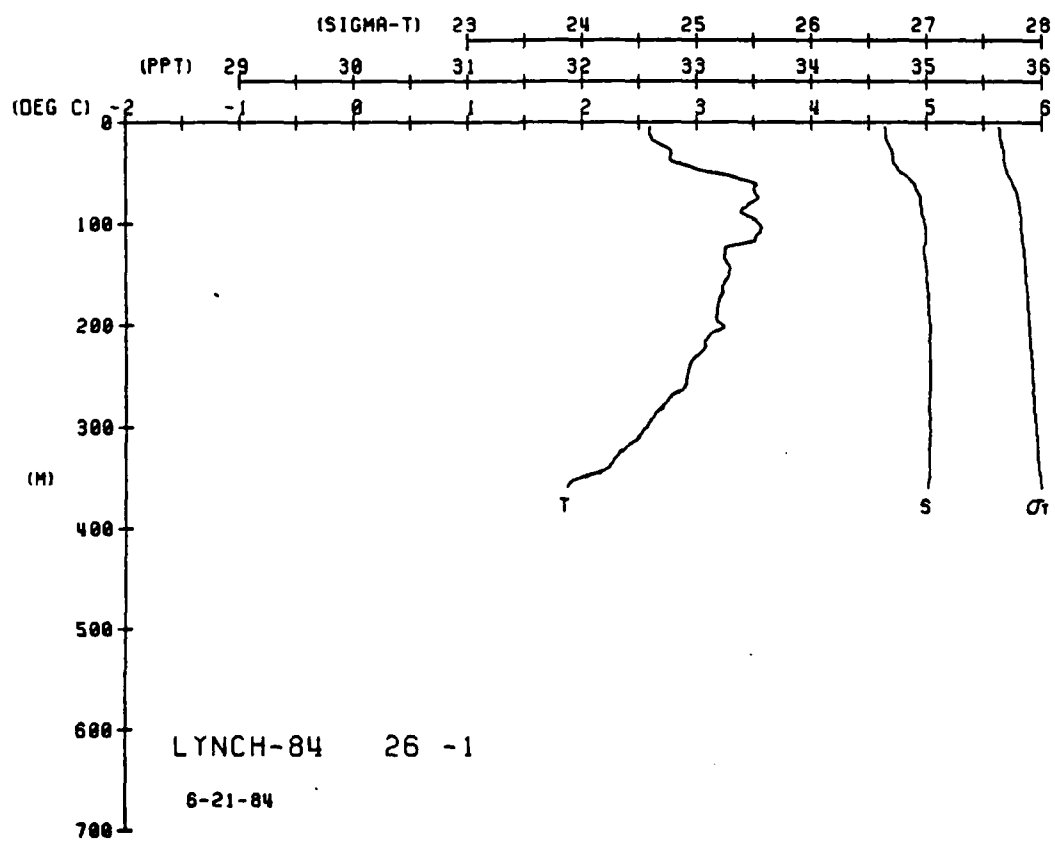
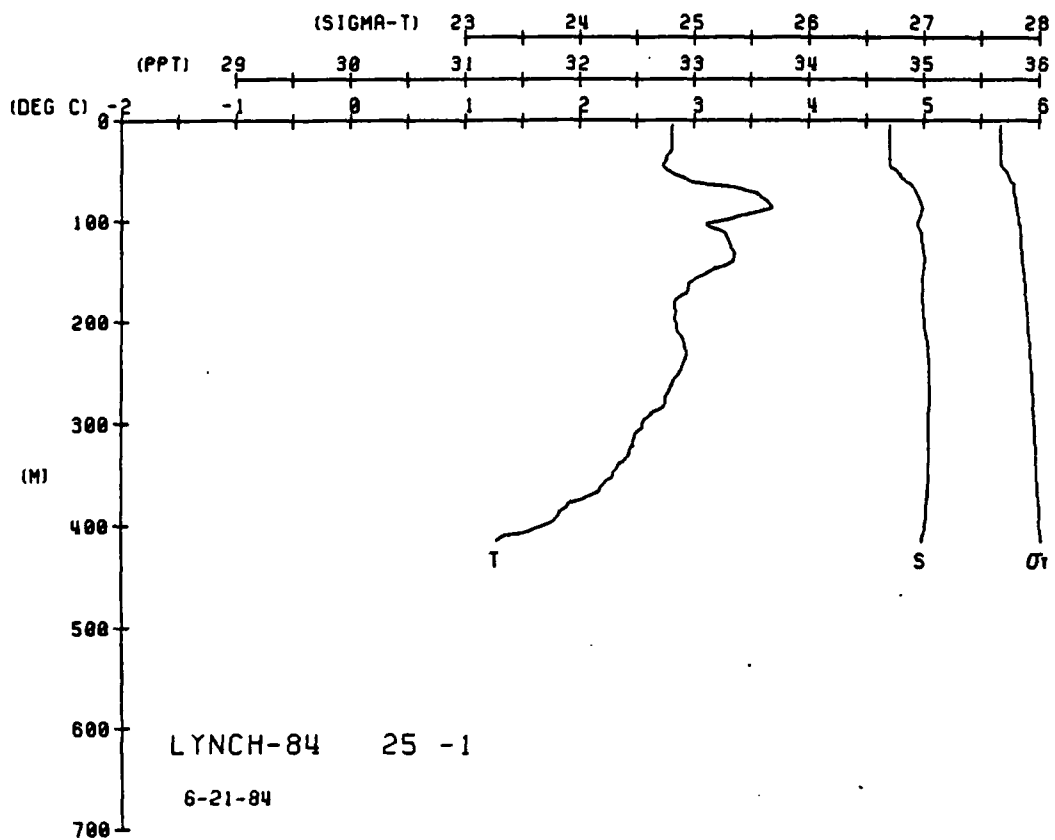












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GEOLOGICAL OBSERVATORY PALISADES NY T O HANLEY DEC 85
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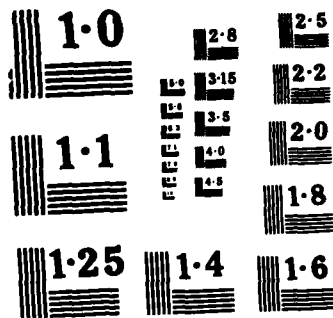
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) During the summer of 1984, the Arctic Oceanography Department of Lamont-Doherty Geological Observatory acquired a total of 222 helicopter-based C/STD stations within the ice-covered region of Fram Strait to a nominal depth of 500 m. This program was accomplished as part of an international experiment known as MIZEX East 1984. The two ships used in helicopter operations were the F/S <u>Polarstern</u> and the M/V <u>Polarqueen</u> .		

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The USNS Lynch was also used to obtain 26 CTD stations from two separate legs into Fram Strait. The first leg primarily consisted of an open water transect of the strait at a latitude of 79°N. Stations were typically taken to within 10 m of the bottom and extended from the ice edge onto the shelf of Svalbard. The second leg was more acoustically oriented and confined to the southern region of the Yermak Plateau. During this leg, 11 stations to a nominal depth of 450 m were taken.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height, and sound velocity are given for each cast along with profiles of temperature, salinity and sigma-t.

This technical report outlines the acquisition and basic reduction techniques of these data.

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