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NOAA Data Report ERL MESA-28



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MESA NEW YORK BIGHT PROJECT  
EXPANDED WATER COLUMN CHARACTERIZATION CRUISE (XWCC 10)  
NOAA SHIP GEORGE B. KELEZ, 28 JUNE - 1 JULY, 1976

Robert B. Starr  
John B. Hazelworth  
Shailer R. Cummings  
George A. Berberian

Marine Ecosystems Analysis Program  
Boulder, Colorado  
December 1977

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Miami, Florida

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MESA NEW YORK BIGHT PROJECT  
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During the period 28 June - 1 July 1976, an oceanographic cruise was made on the NOAA Ship George B. Kelez in the New York Bight. The objective of the cruise was to supply data to provide a base for analysis of the water characteristics and movements in the highly impacted ecosystem. This report presents the corrected physical and chemical (nutrient) data from this cruise, and describes the Neuston net towing operation and results.

Key Words: MESA, New York Bight, Physical Oceanographic Data, Nutrient Data, Neuston Net Tows.

## 1. INTRODUCTION

This report is a continuation in the Marine Ecosystem Analysis (MESA) Program's series of publications presenting oceanographic data from the New York Bight. In June of 1976, a cruise of 38 stations was conducted by the Atlantic Oceanographic and Meteorological Laboratories (AOML), Miami, Florida, aboard the NOAA Ship George B. Kelez. The instrumentation employed was the same as that described in previous reports (Hazelworth et al., 1974, 1975a, b, Kolitz et al., 1976) namely, an Inter Ocean Model 513-10 CSTD with associated sensors and equipment. The area of investigation was the expanded New York Bight region (Fig. 1 and Tab. 1). Cruise dates and participating AOML staff members are listed in Table 2. The physical and nutrient data obtained from the water column measurements are presented herein; the operational characteristics of the nutrient-analyses system are found in Starr et al., (1977).

This report is the eighth of a series of reports describing the physical oceanographic measurements in the expanded area. Earlier cruises were reported by Charnell et al., (1976), Starr et al., (1976, 1977), Hazelworth and Darnell (1976), Kolitz et al., (1976, 1977) and Hazelworth et al., (1977).

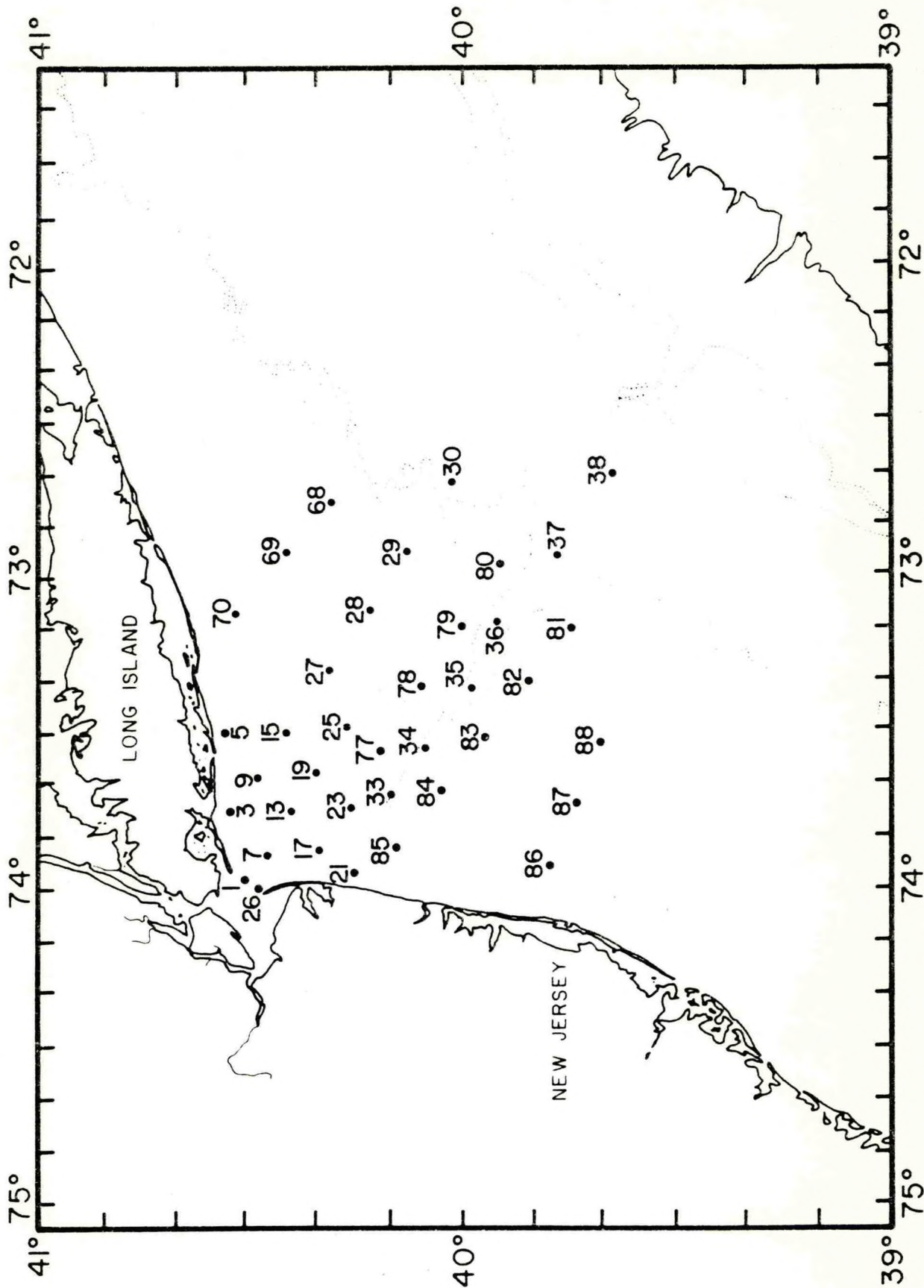


Figure 1. Stations occupied during XWCC 10.

Prior reports, cited above, give detailed information on instrumentation specifications, data collection methods, and data processing techniques. The correction factors and data accuracy are given in Table 3.

Table 1. Oceanographic Station Locations

Designation	Latitude (N)	Longitude (W)	Designation	Latitude (N)	Longitude (W)
1	40°30.2'	73°57.3'	35	39°59.0'	73°21.5'
3	40°31.5'	73°48.4'	36	39°55.0'	73°06.5'
5	40°33.3'	73°32.5'	37	39°46.0'	72°57.0'
7	40°26.9'	73°53.0'	38	39°39.0'	72°39.5'
9	40°28.3'	73°39.6'	68	40°19.0'	72°46.0'
13	40°23.3'	73°47.0'	69	40°25.0'	72°55.0'
15	40°25.2'	73°30.4'	70	40°32.0'	73°07.0'
17	40°18.5'	73°51.8'	77	40°10.5'	73°34.0'
19	40°20.2'	73°37.9'	78	40°05.0'	73°21.5'
21	40°13.5'	73°56.1'	79	40°00.0'	73°09.5'
23	40°14.8'	73°45.6'	80	39°54.5'	72°57.0'
25	40°16.9'	73°28.3'	81	39°44.5'	73°10.0'
26	40°29.0'	73°59.5'	82	39°50.5'	73°20.5'
27	40°18.0'	73°17.5'	83	39°56.5'	73°30.5'
28	40°13.5'	73°07.0'	84	40°02.0'	73°41.0'
29	40°07.0'	72°54.5'	85	40°08.0'	73°51.5'
30	40°02.0'	72°41.5'	86	39°47.5'	73°57.0'
33	40°10.0'	73°41.5'	87	39°44.0'	73°43.5'
34	40°05.5'	73°31.5'	88	39°40.0'	73°30.0'

Table 2. NOAA Ship George B. Kelez  
Expanded Water Column Characterization Cruise XWCC 10

Date	AOML Personnel
28 June - 1 July 1976	Robert B. Starr Chief Scientist John B. Hazelworth Shailer R. Cummings Philip G. Hanson

Table 3. Data Accuracy for Cruise XWCC 10

	Temp. °C	Salinity o/oo	Transmissivity	pH	O <sub>2</sub> (#1)	O <sub>2</sub> (#2)
Mean Data Accuracy	-0.00	+0.02	N.A.	+0.05	-0.00	Inoperative
Standard Devia- tion	0.03	0.05	N.A.	0.21	0.07	

The limited number of stations occupied on this cruise resulted partly from the requirement to conduct a series of Neuston net tows offshore of southern Long Island to sample the floating debris in the surface water as a result of the contamination of the Long Island beaches that had been occurring sporadically during the previous month. A total of five tows was made. The beginning and ending times and positions of these tows are listed in Table 4. The times are Eastern Daylight Saving time and the date was 1 July 1976.

Table 4. Time and Location of Neuston Net Tows

Tow No.	Times	Latitude (North)	Longitude (West)
1	1140	40°35.9'	73°17.6'
	1220	40°35.9'	73°21.4'
2	1350	40°33.5'	73°32.7'
	1450	40°33.6'	73°38.2'
3	1620	40°24.6'	73°42.8'
	1630	40°24.4'	73°42.4'
4	1740	40°33.6'	73°43.8'
	1750	40°33.8'	73°44.9'
5	1806	40°33.8'	73°45.8'
	1824	40°33.8'	73°46.4'



The first tow was made across Fire Island Inlet on ebb tide. Its contents included numerous small styrofoam fragments, a quantity of unknown fibrous material, some isopods and juvenile decapods, some wood fragments including a board about 1.5 feet long by 4 inches wide, and some sheet cork fragments. Tow number two was taken across Jones Inlet, also on ebb tide, and resulted in a much larger volume of material than the first one. It consisted of styrofoam bits, seaweed, isopods and juvenile decapods, one large and a couple of smaller charred wood fragments, and several small pieces of wood.

While proceeding westward toward East Rockaway Inlet, a message was received that the Nasau County sludge dump ship Susan Frank was leaving East Rockaway Inlet for the dump site. Consequently, since it was desired to sample one of these dumps, the Neuston net was towed in the wake of the Susan Frank during her dumping operation. The net filled and towed under in 10 minutes. The sample obtained from this sewage tow consisted of sewage sludge, styrofoam bits, a plastic bag, and what appeared to be eggs of a marine animal.

The final tows, four and five, were taken off of Atlantic Beach and East Rockaway Inlet in the late afternoon. The first one had the largest volume and consisted mostly of seaweed and styrofoam, while the second one was composed of seaweed and larval decapods. The planned transect across lower New York Bay was aborted because of approaching night and degrading visibility. The ship then returned to its berth at Floyd Bennett Field. All samples were labeled, preserved in formalin, and left at the ship base for transport to MESA Headquarters at Stony Brook, New York.

## 2. DATA PRESENTATION

Tables of the interpolated data and the corresponding depth profiles of temperature, salinity, sigma-t, transmissivity, pH, and dissolved oxygen are given in Section 6, Station Data. The codes used in the headings are from the National Oceanographic Data Center Manual Series (1964). The tabulated data are given at 1-m intervals from the surface to 50 m and at 10-m intervals thereafter; in addition, data are presented at the depths at which water samples were obtained and at the bottom of the cast. Profiles were produced from the corrected raw data. The symbols, explained to the left of each horizontal axis and located on the curves at 5-m intervals, identify the parameters. The listings of dissolved oxygen from the probe have had a gradient correction applied due to the very slow response characteristics of this sensor. However, because of the variable and very steep gradients,

particularly below the maximum in shallow water, this correction is only approximate in these gradients. Consequently, the statistical statement of accuracy in Table 3 for this probe only applies where there were no significant gradients. Nevertheless, the probe values do provide a good presentation of the variation of oxygen with depth in the water column that is not possible with the discreet Winkler values. On the few stations the oxygen probe malfunctioned on, the discreet Winkler values from the water samples have been substituted for the probe values. Also, when the pH probe recorded values less than 7.3 on the pH scale, these were excluded from the listings and the pH values determined on the water samples at these depths substituted in their place.

The distributions of temperature, salinity, and sigma-t are presented in Section 5: 1) horizontally at the 1-m depth (Figs. 2-4) and 2) vertically along the axis of the Hudson Shelf Valley (Figs. 5-7).

### 3. ACKNOWLEDGMENTS

The authors express their thanks to the officers and crew of the NOAA Ship Kelez, under the command of LCDR John Stachelhaus, for the long and diligent hours they devoted to collecting these data. The effort was sponsored by NOAA and funded in part by the NOAA Environmental Research Laboratories and the MESA Program's New York Bight Project.

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5. AREAL AND CROSS-SECTION DISTRIBUTIONS  
OF TEMPERATURE, SALINITY, AND SIGMA-T

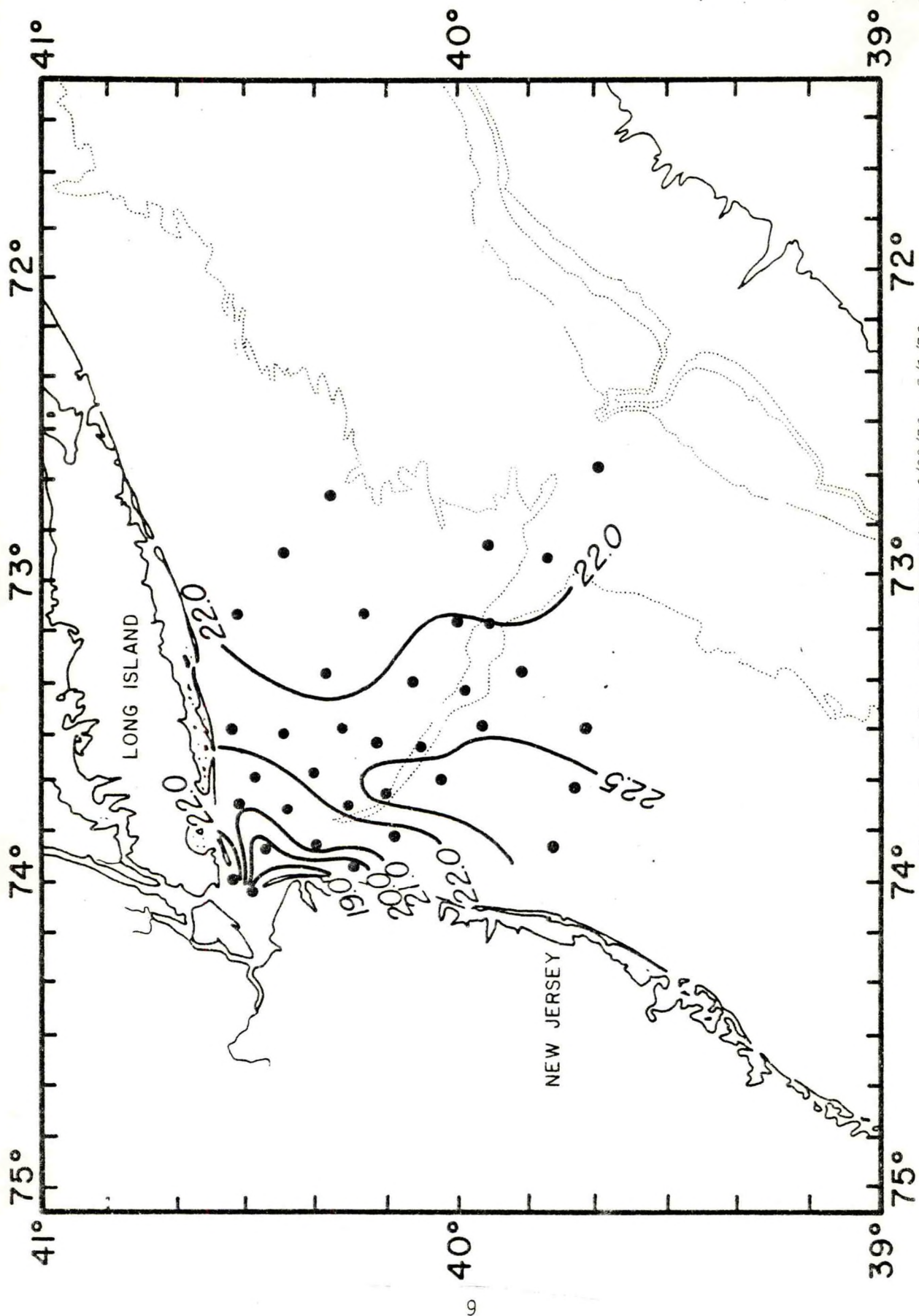


Figure 2. Surface water temperature 6/28/76 - 7/1/76.

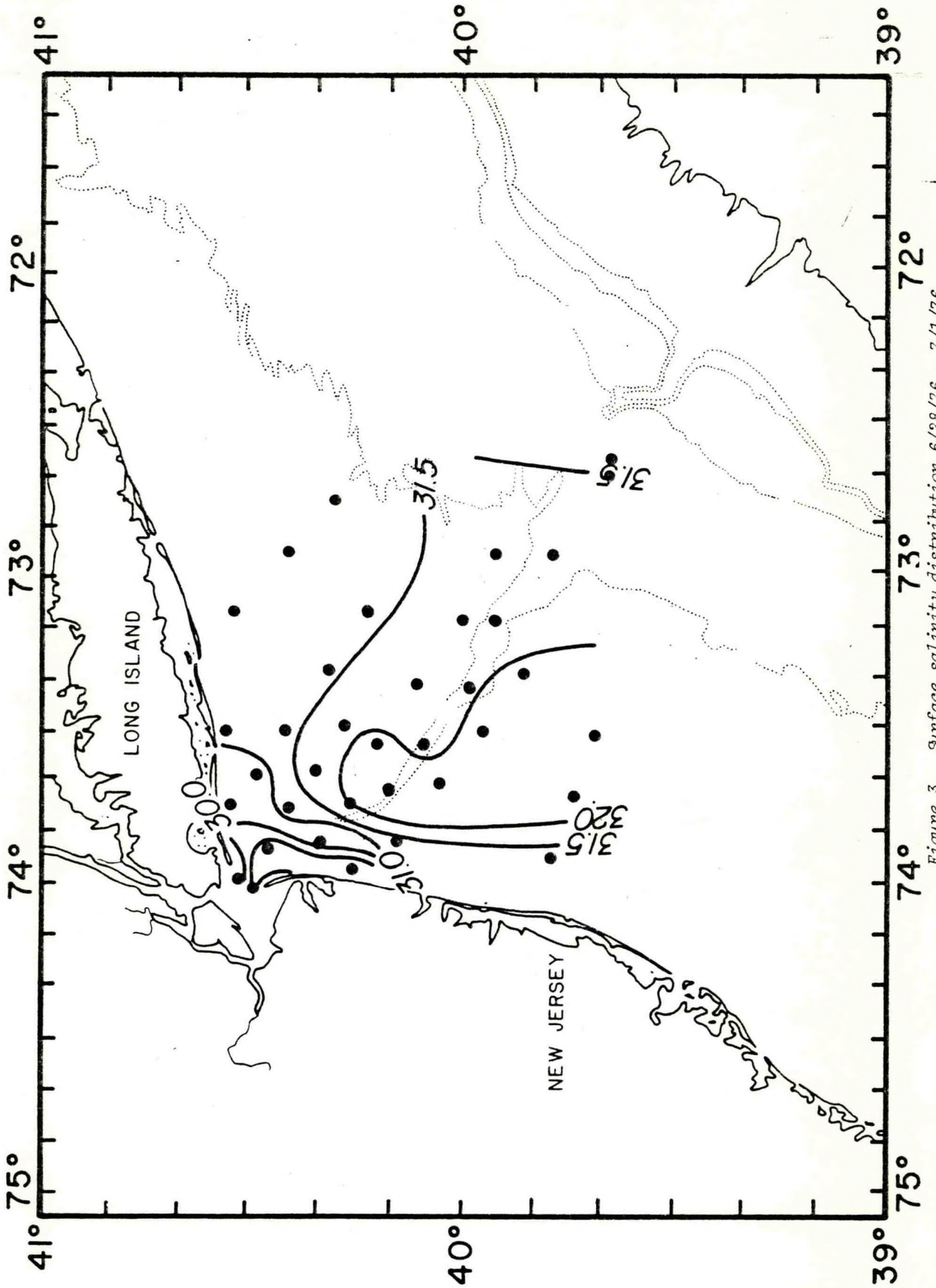


Figure 3. Surface salinity distribution 6/28/76 - 7/1/76.

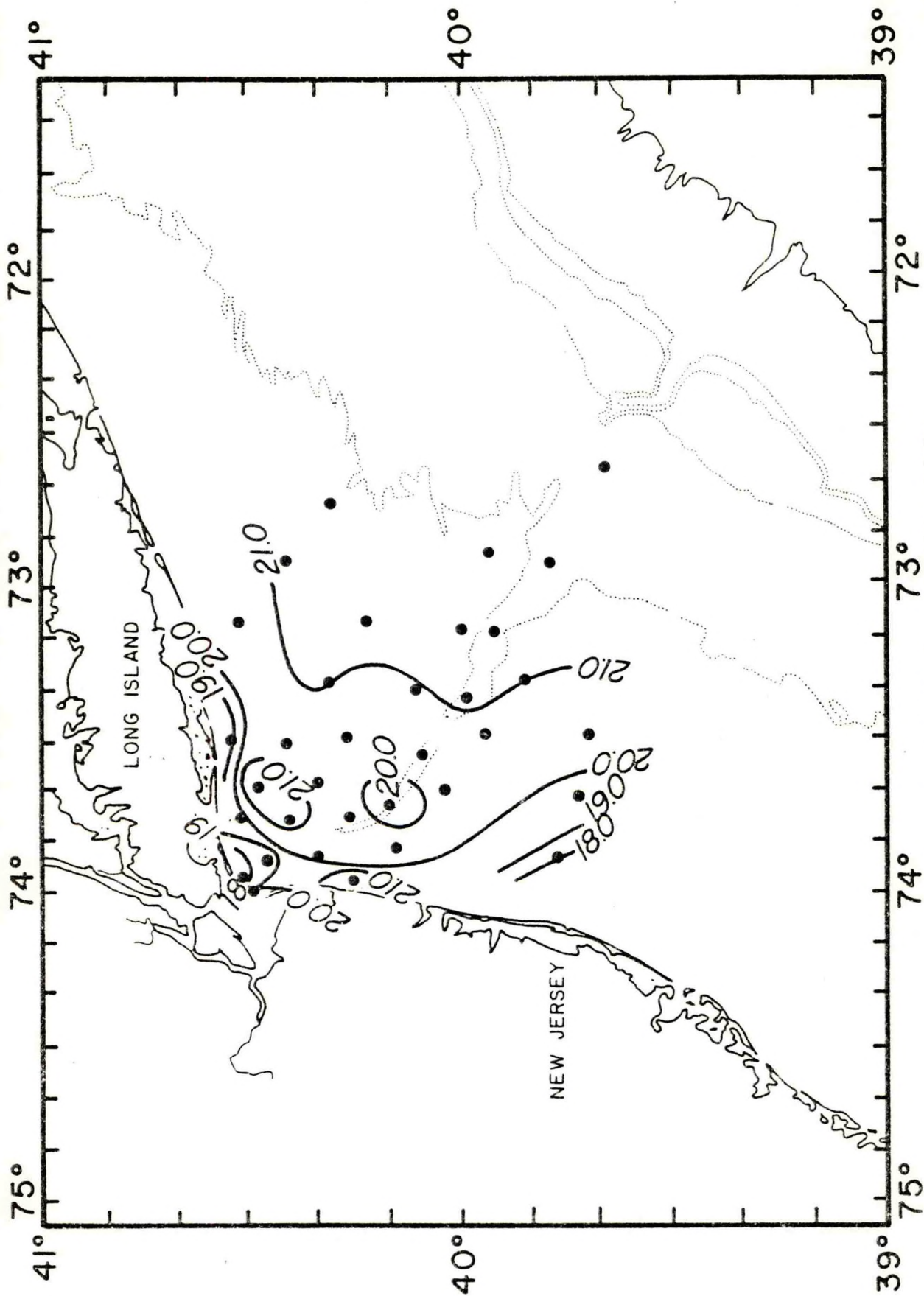


Figure 4. Surface sigma-t 6/28/76 - 7/1/76.

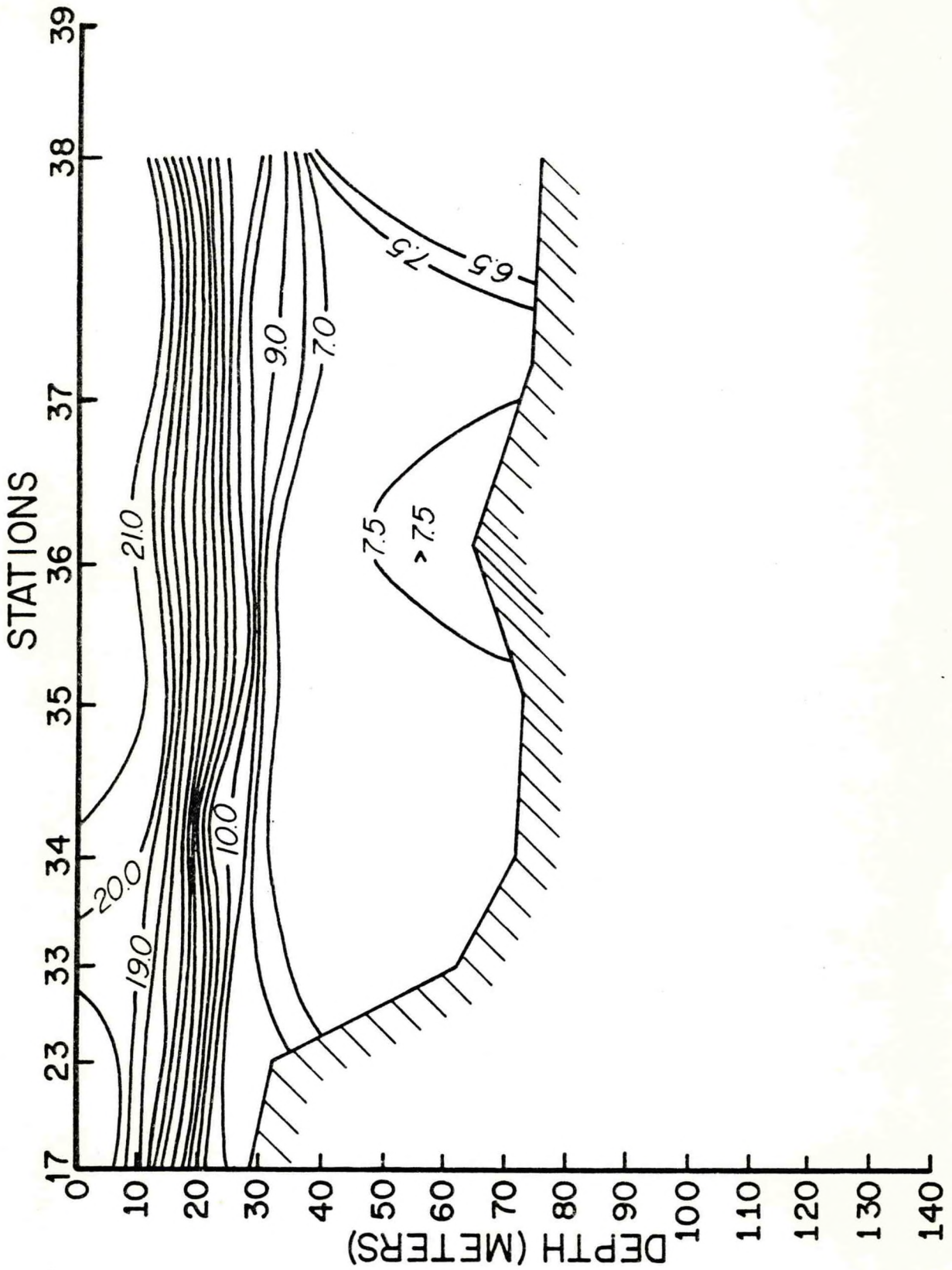


Figure 5. Vertical temperature structure along the Hudson Shelf  
Valley 6/28/76 - 7/1/76.



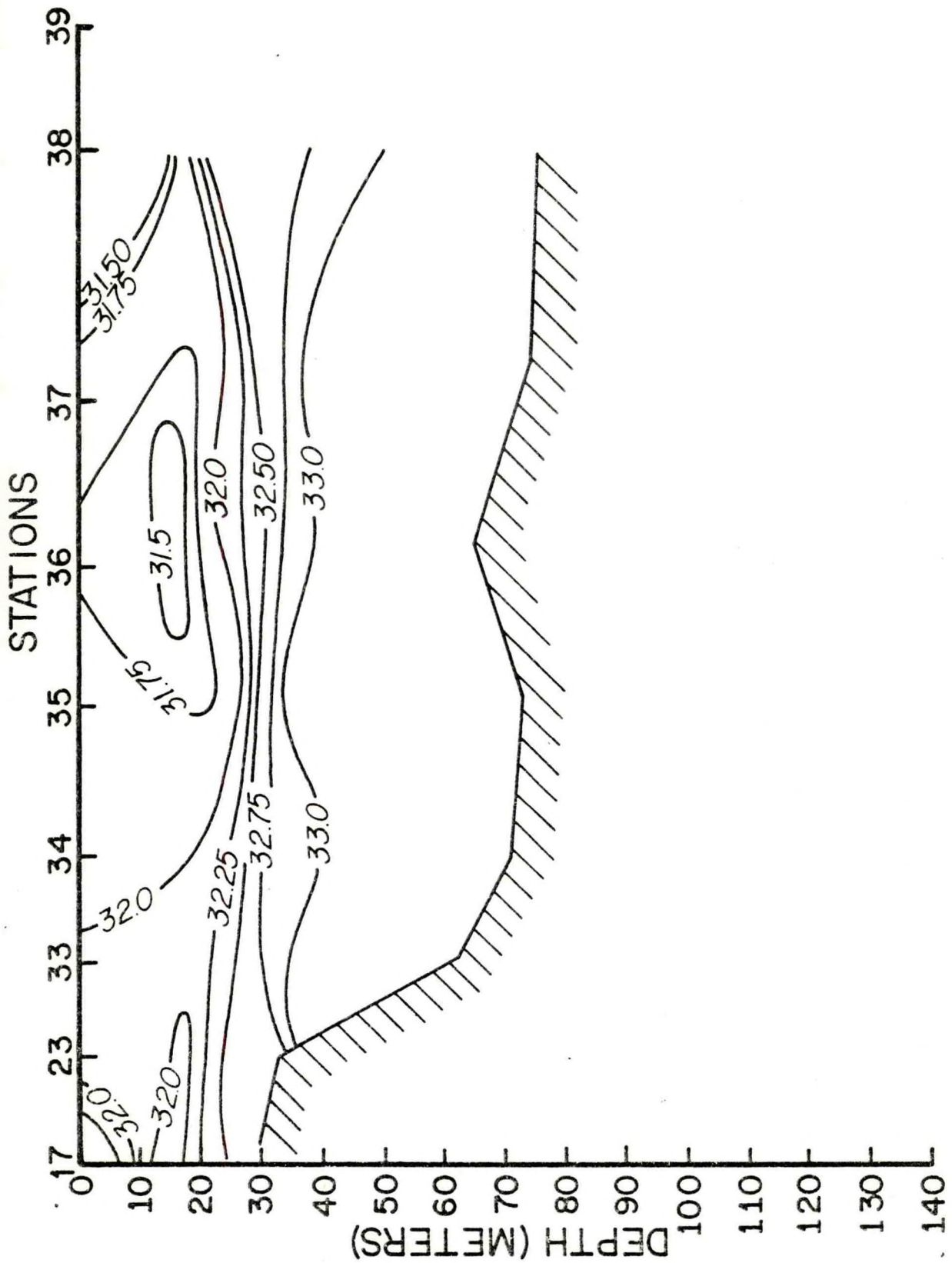


Figure 6. Vertical salinity distribution along the Hudson Shelf  
Valley 6/28/76 - 7/1/76.

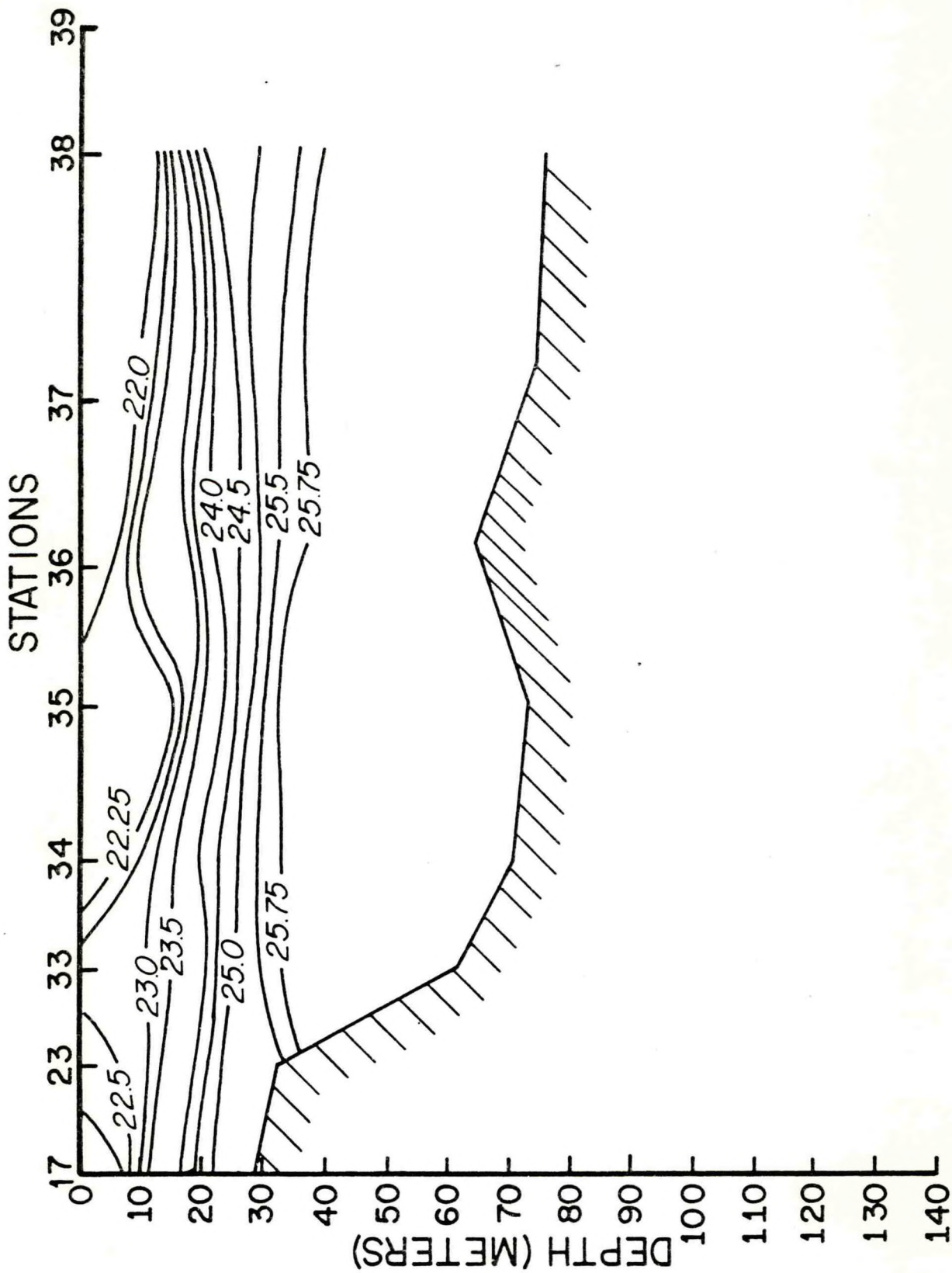


Figure 7. Vertical sigma-t structure along the Hudson Shelf Valley  
6/28/76 - 7/1/76.

6. STATION DATA

XWCC-10 STA. 01 LAT 40 30.3N; LONG 73 56.1W GMT 14.0 06/28/76  
 DEPTH 11 AIR D/W 26.1/22.2 BARO 17.0 VIS 5 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 25/06 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	16.07	31.12	22.78	69.70	7.9	5.05	.05	.16	6.71	.67
2	16.07	31.12	22.78	69.70	7.9	5.05				
3	16.01	31.13	22.79	68.70	7.9	5.05				
4	15.57	31.13	22.89	68.20	7.9	5.11				
5	13.66	31.60	23.66	71.00	7.8	5.16				
6	13.37	31.71	23.80	71.50	7.8	4.76				
7	13.08	31.77	23.90	72.40	7.8	4.51				
8	13.11	31.81	23.92	72.10	7.8	4.16				
9	13.10	31.83	23.94	72.00	7.8	4.09				
10	13.08	31.83	23.95	72.60	7.8	4.09	.04	.00	8.31	.53
11	12.96	31.86	23.99	72.50	7.8	4.08				

KELEZ CRUISE XWCC-10 STATION 1 JUNE 28, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

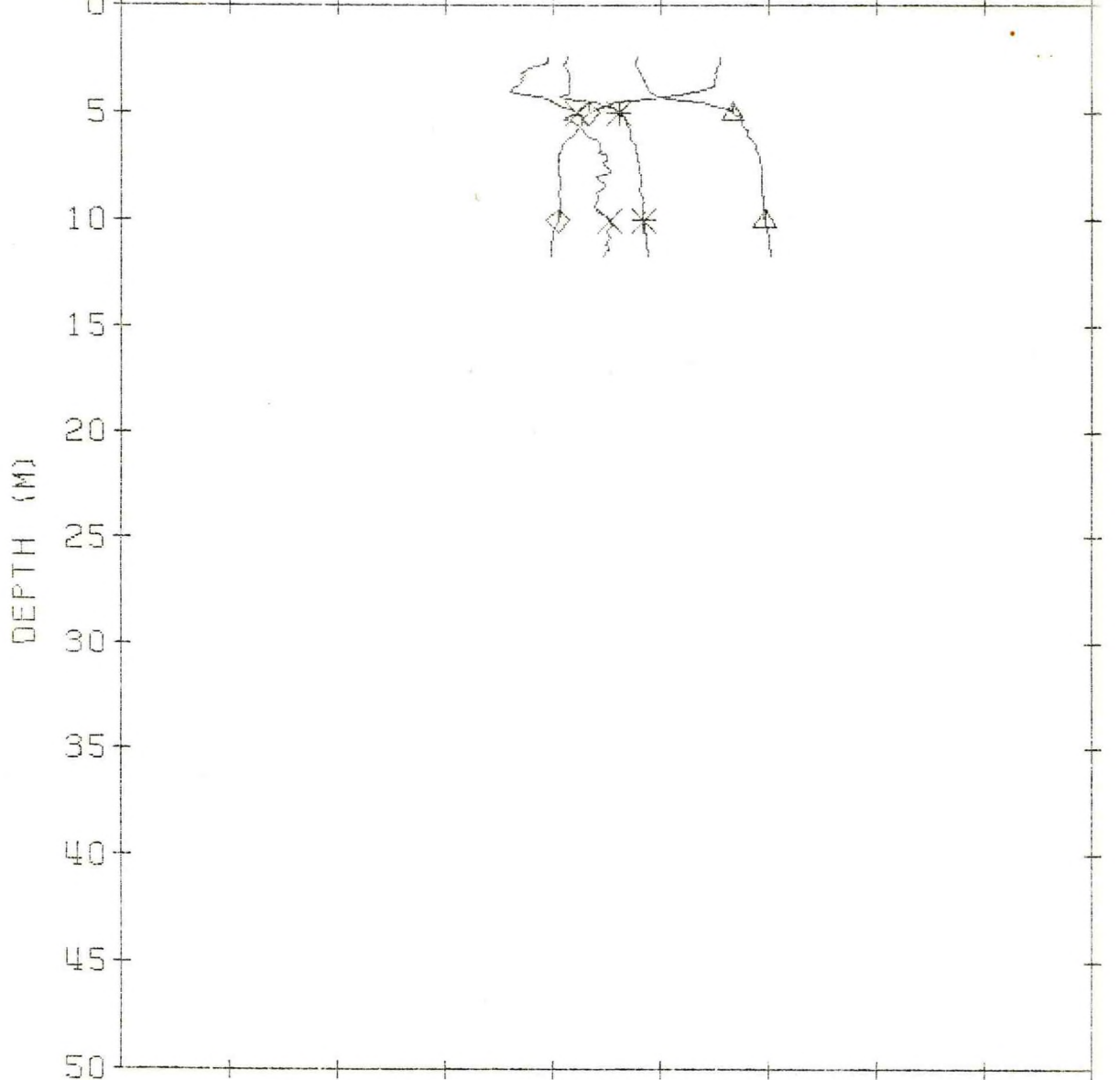
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

\* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23



XWCC-10 STA. 03 LAT 40 31.5N; LONG 73 40.3W GMT 17.8 06/28/76  
 DEPTH 15 AIR D/W 23.9/21.7 BARO 16.0 VIS 6 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 16/10 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	19.54	30.49	21.47	71.20	7.9	5.45	.06	.00	5.43	.41
2	19.54	30.49	21.47	71.20	7.9	5.45				
3	19.41	30.63	21.61	71.30	7.9	5.47				
4	18.59	31.41	22.41	71.40	7.9	5.63				
5	18.28	31.68	22.69	71.50	7.9	5.49				
6	17.94	31.91	22.95	72.80	7.9	5.39				
7	17.11	31.92	23.15	73.70	7.9	5.39				
8	16.85	31.87	23.18	73.40	7.9	5.34				
9	16.09	31.78	23.27	73.50	8.0	5.26				
10	15.03	31.77	23.50	73.60	8.0	5.37	.04	.00	3.33	.31
11	14.41	31.85	23.69	71.90	8.0	5.47				
12	13.51	31.93	23.94	69.60	7.9	5.50				
13	13.16	31.98	24.05	71.20	7.9	5.31				
14	13.04	32.01	24.09	71.60	7.9	5.00				
15	12.92	32.00	24.11	73.20	7.8	4.59	.04	.00	7.70	.36
16	12.58	32.04	24.21	73.50	7.8	4.56				
17	12.46	32.07	24.25	73.50	7.8	4.35				

KELEZ CRUISE XWCC-10 STATION 3 JUNE 28, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

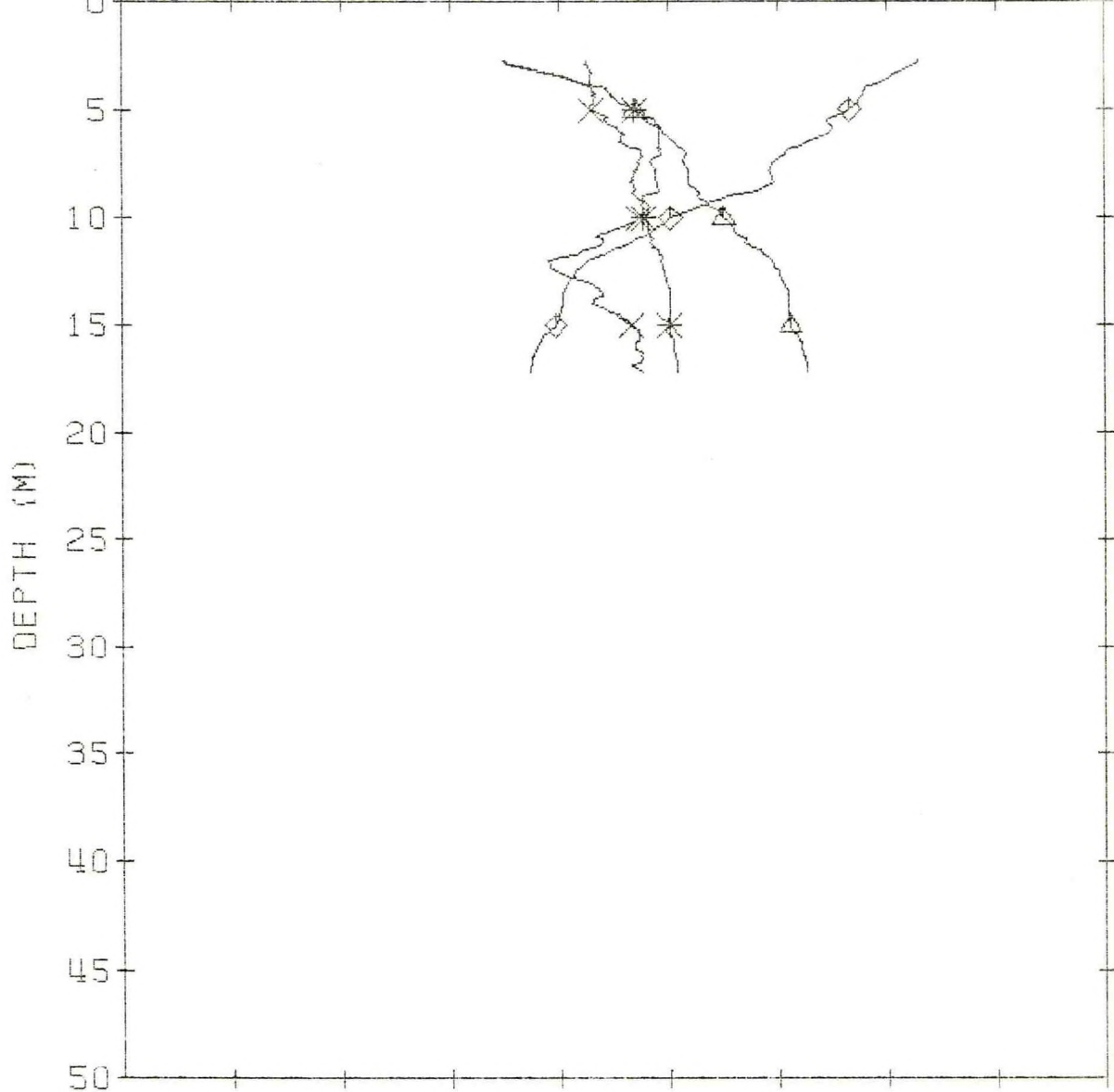
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

\* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

◇ 5 7 9 11 13 15 17 19 21 23

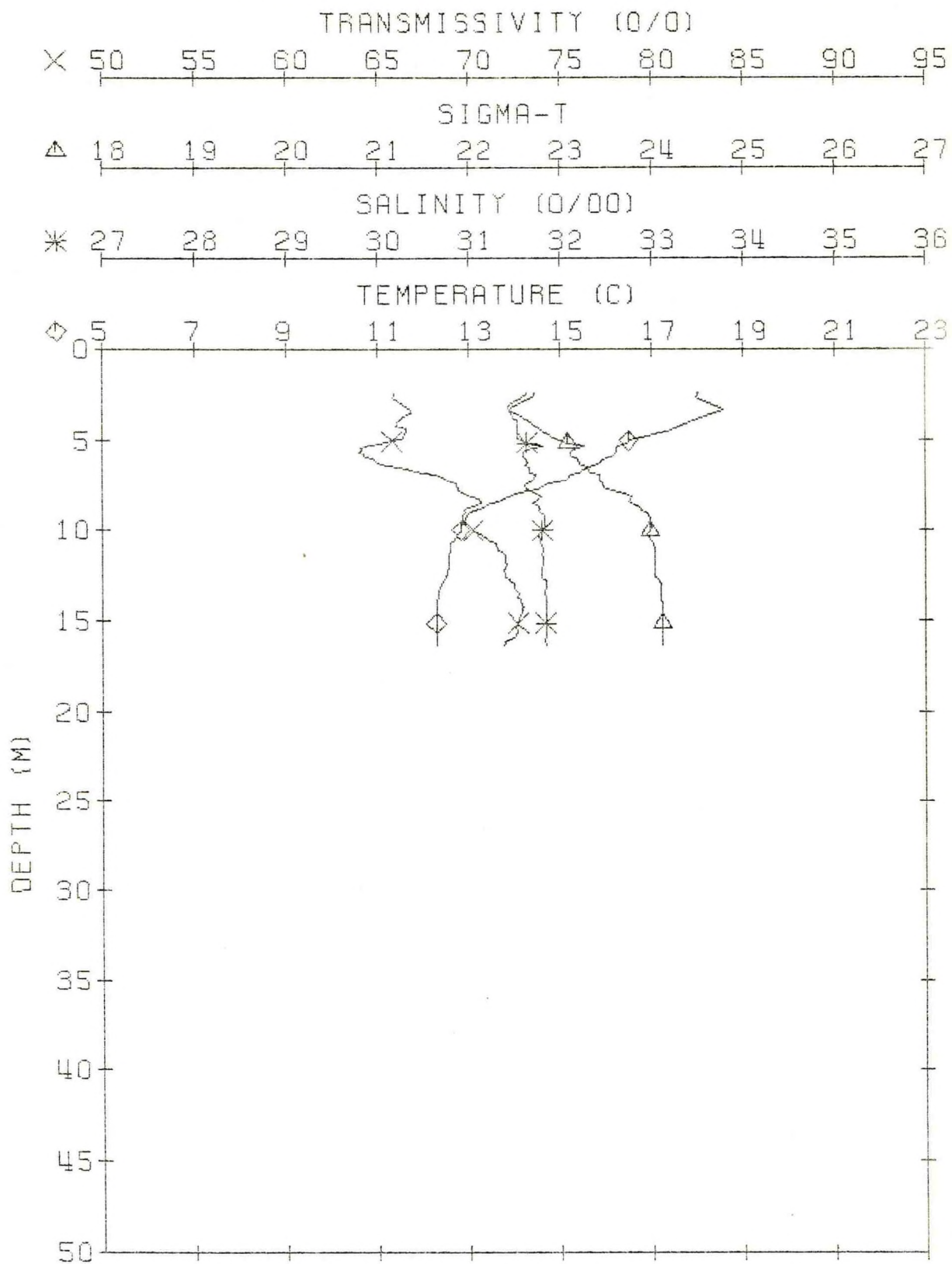


XWCC-10 STA. 05 LAT 40 33.3N; LONG 73 32.3W GMT 19.6 06/28/76  
 DEPTH 15 AIR D/W 24.4/21.1 BARO 15.0 VIS 7 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 17/20 SEA DIR/HT 00/0 SWELL DIR/HT 17/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	18.00	31.63	22.71	65.90	7.9	5.50	.10	.00	6.83	.59
2	18.00	31.63	22.71	65.90	7.9	5.50				
3	18.26	31.46	22.53	66.30	7.9	5.46				
4	17.78	31.53	22.69	66.10	7.9	5.66				
5	16.52	31.57	23.02	65.70	7.9	5.66				
6	16.01	31.61	23.16	64.60	7.9	5.81				
7	15.19	31.71	23.42	68.40	8.0	5.56				
8	14.01	31.75	23.70	69.80	8.0	5.56				
9	13.03	31.78	23.92	69.70	7.9	5.56				
10	12.82	31.80	23.97	70.20	7.9	5.39	.09	.00	4.44	.43
11	12.57	31.80	24.03	71.60	7.9	5.35				
12	12.54	31.80	24.03	72.00	7.9	5.24				
13	12.39	31.84	24.09	72.40	7.9	5.23				
14	12.29	31.83	24.10	72.80	7.8	5.10				
15	12.27	31.84	24.11	72.70	7.8	4.87	.02	.00	10.50	.42
16	12.28	31.83	24.10	72.30	7.8	4.69				



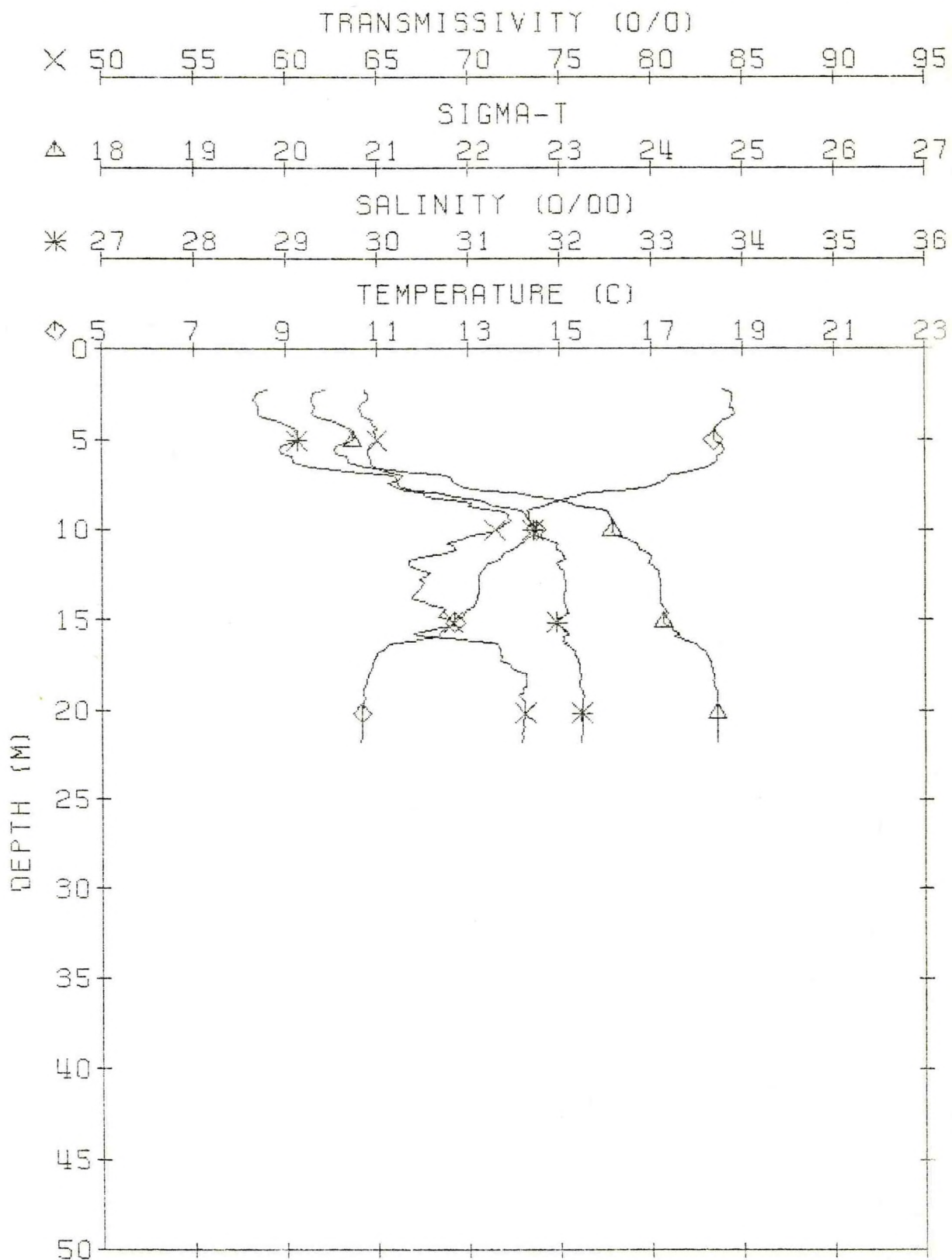
KELEZ CRUISE XWCC-10 STATION 5 JUNE 28, 1976



XWCC-10 STA. 07 LAT 40 27.0N; LONG 73 53.7W GMT 16.4 06/28/76  
 DEPTH 20 AIR D/W . / . BARO 16.0 VIS 6 CLD TYP/CVR /0  
 WETHR 4 WIND DIR/SPD / SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	18.56	28.79	20.42	64.30	7.9	6.28	.14	.00	8.37	.92
2	18.56	28.79	20.42	64.30	7.9	6.28				
3	18.74	28.68	20.29	64.20	7.9	6.29				
4	18.54	28.92	20.53	64.70	7.9	6.32				
5	18.37	29.10	20.70	64.90	7.9	6.33				
6	18.42	29.07	20.67	64.60	7.9	6.23				
7	17.38	30.15	21.74	66.30	7.9	6.30				
8	15.47	30.73	22.61	67.50	7.8	6.03				
9	14.30	31.60	23.52	71.90	7.9	5.50				
10	14.47	31.70	23.57	71.50	7.9	5.17	.06	.00	5.54	.49
11	14.01	31.96	23.86	69.20	7.9	5.04				
12	13.40	31.98	24.00	66.80	8.0	5.00				
13	13.21	32.05	24.09	67.50	8.0	5.20				
14	13.16	32.05	24.10	67.40	8.0	5.30				
15	12.74	31.97	24.12	68.90	7.9	5.40				
16	12.05	32.03	24.30	68.90	7.8	5.27				
17	10.95	32.18	24.61	71.70	7.6	5.02				
18	10.80	32.22	24.67	73.10	7.6	4.44				
19	10.69	32.25	24.71	72.90	7.6	3.93				
20	10.66	32.23	24.70	73.10	7.5	3.63	.33	.16	12.71	.78
21	10.64	32.23	24.71	73.00	7.5	3.29				

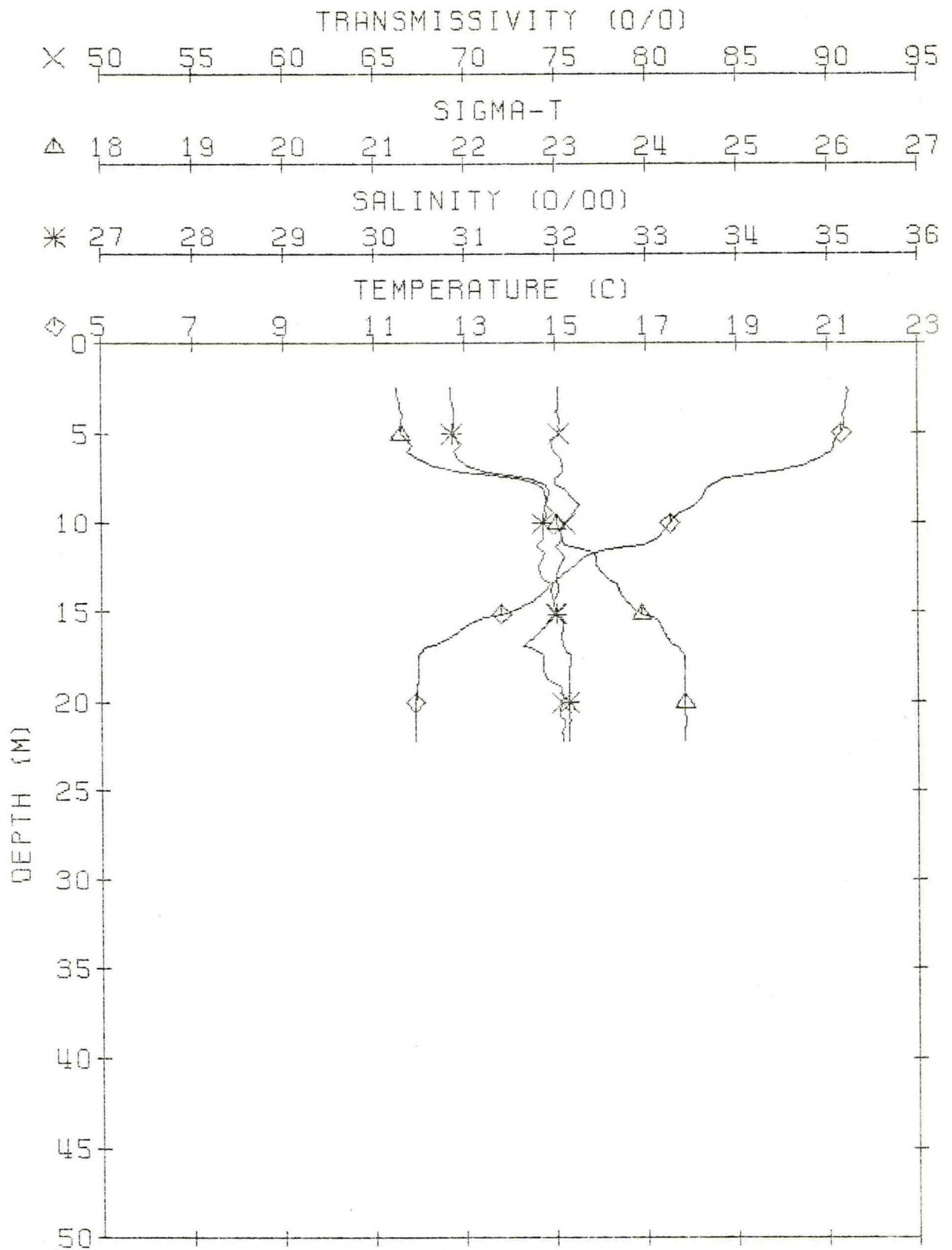
KELEZ CRUISE XWCC-10 STATION 7 JUNE 28, 1976



XWCC-10 STA. 09 LAT 40 28.3N; LONG 73 39.5W GMT 21.0 06/28/76  
 DEPTH 23 AIR D/W 22.8/21.1 BARO 14.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 19/20 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.43	30.85	21.25	75.10	8.0	5.66	.04	.00	3.30	.25
2	21.43	30.85	21.25	75.10	8.0	5.66				
3	21.42	30.85	21.25	75.10	8.0	5.66				
4	21.33	30.88	21.30	75.20	8.0	5.65				
5	21.28	30.86	21.30	75.20	8.0	5.66				
6	21.03	30.90	21.40	74.90	8.0	5.66				
7	20.00	31.17	21.87	75.40	8.0	5.68				
8	18.34	31.90	22.84	75.40	7.9	5.87				
9	18.02	31.88	22.91	76.10	7.9	5.97				
10	17.50	31.86	23.01	75.50	8.0	6.14	.03	.33	3.09	.35
11	17.14	31.84	23.08	75.20	8.0	6.01				
12	15.58	31.85	23.44	75.40	8.1	6.19				
13	15.10	31.85	23.54	75.00	8.2	6.15				
14	14.66	31.96	23.72	75.10	8.1	6.19				
15	13.95	32.00	23.91	75.00	8.0	6.25				
16	12.87	32.07	24.17	74.20	8.0	6.30				
17	12.10	32.09	24.33	73.60	7.9	6.41				
18	11.94	32.15	24.41	74.30	7.8	6.38				
19	11.93	32.14	24.40	75.00	7.8	6.24				
20	11.89	32.14	24.41	75.30	7.8	6.03				
21	11.88	32.15	24.42	75.40	7.8	5.63				
22	11.88	32.14	24.41	75.40	7.8	5.05				

KELEZ CRUISE XWCC-10 STATION 9 JUNE 28, 1976



XWCC-10 STA. 13 LAT 40 23.5N; LONG 73 47.0W GMT 23.0 06/28/76  
 DEPTH 36 AIR D/W 23.9/21.1 BARO 13.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 20/27 SEA DIR/HT 00/0 SWELL DIR/HT 19/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.11	31.39	21.74	74.50	8.0	5.56	.05	.13	2.16	.19
2	21.12	31.39	21.74	74.50	8.0	5.50				
3	21.12	31.38	21.74	78.60	8.0	5.42				
4	20.98	31.43	21.81	78.40	8.0	5.50				
5	21.12	31.38	21.74	78.50	8.0	5.42				
6	20.94	31.43	21.82	78.60	8.0	5.45				
7	21.14	31.37	21.72	78.60	8.0	5.42				
8	20.68	31.48	21.93	78.70	8.0	5.50				
9	20.21	31.50	22.07	78.70	8.0	5.51				
10	18.78	31.96	22.78	78.30	7.9	5.62	.02	.00	4.98	.26
11	18.12	32.04	23.00	78.10	7.9	5.49				
12	16.59	31.85	23.22	77.90	8.0	5.59				
13	15.52	31.90	23.49	78.40	8.2	5.79				
14	14.83	31.95	23.68	78.30	8.2	6.13				
15	14.46	31.98	23.78	78.80	8.2	6.50				
16	14.36	31.96	23.79	79.20	8.2	6.65				
17	14.22	31.98	23.83	79.00	8.2	6.90				
18	14.21	31.99	23.84	79.00	8.2	7.01				
19	14.21	31.98	23.83	79.00	8.2	7.09				
20	14.18	31.94	23.81	78.70	8.2	7.14	.08	.10	1.63	.17
21	13.71	31.94	23.91	76.20	8.2	7.30				
22	12.17	32.02	24.27	73.00	8.1	7.50				
23	11.08	32.09	24.52	69.20	8.0	7.57				
24	10.52	32.15	24.66	69.80	7.8	7.28				
25	10.35	32.22	24.75	72.80	7.7	6.49				
26	10.26	32.23	24.77	73.80	7.7	5.93				
27	10.21	32.23	24.78	73.30	7.7	5.37				
28	10.11	32.22	24.78	72.00	7.7	4.99				
29	10.00	32.26	24.84	71.20	7.7	4.75				
30	9.88	32.29	24.88	64.90	7.5	4.56	.03	.00	10.54	.44
31	9.82	32.31	24.90	69.70	7.6	4.39				
32	9.75	32.35	24.95	74.70	7.6	4.07				
33	9.75	32.34	24.94	76.10	7.5	3.90	.02	.43	11.40	.69
34	8.73	32.58	25.29	75.50		3.54				

KELEZ CRUISE XWCC-10 STATION 13 JUNE 28, 1976

TRANSMISSIVITY (0/0)

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SIGMA-T

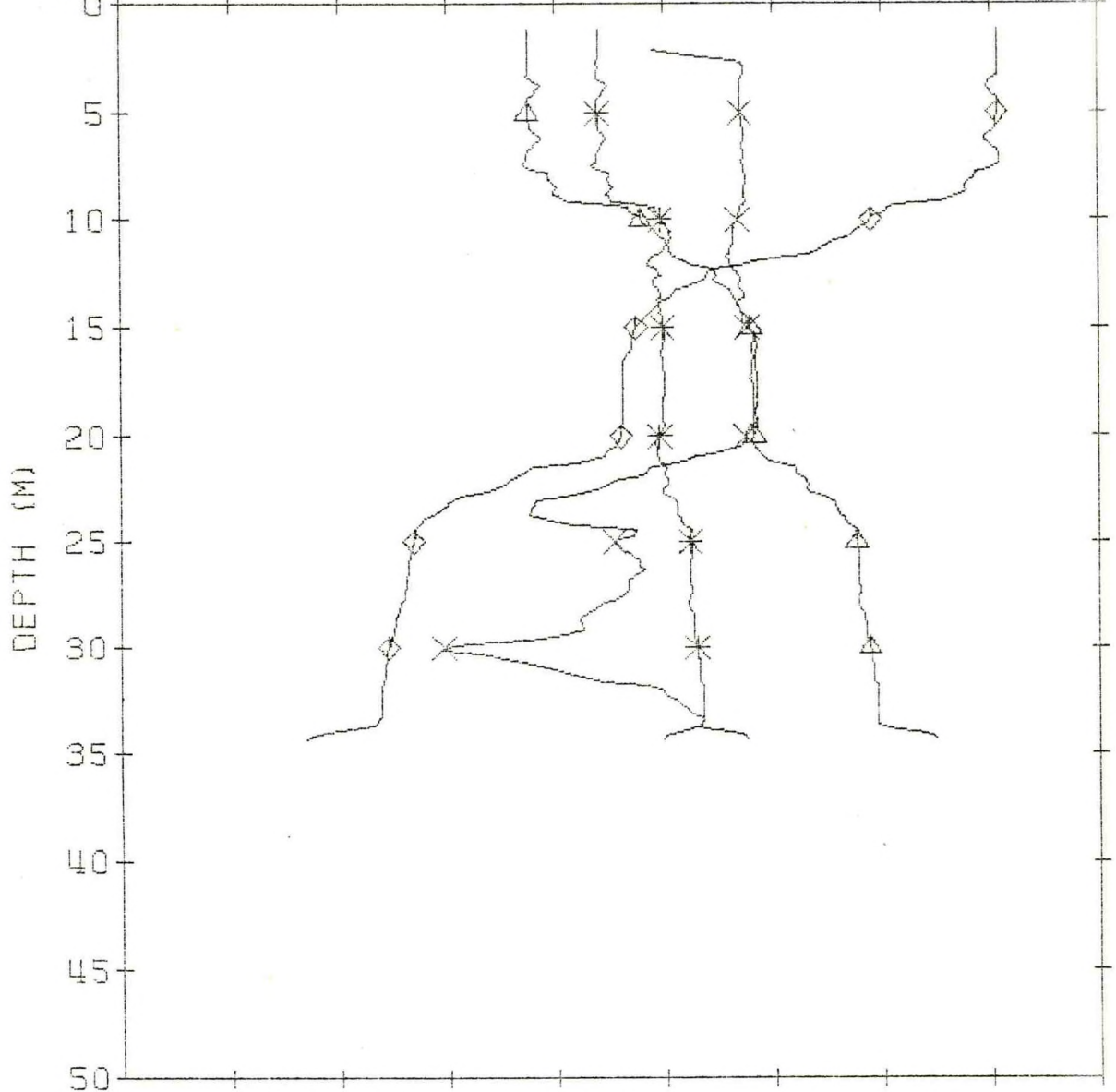
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SALINITY (0/00)

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TEMPERATURE (C)

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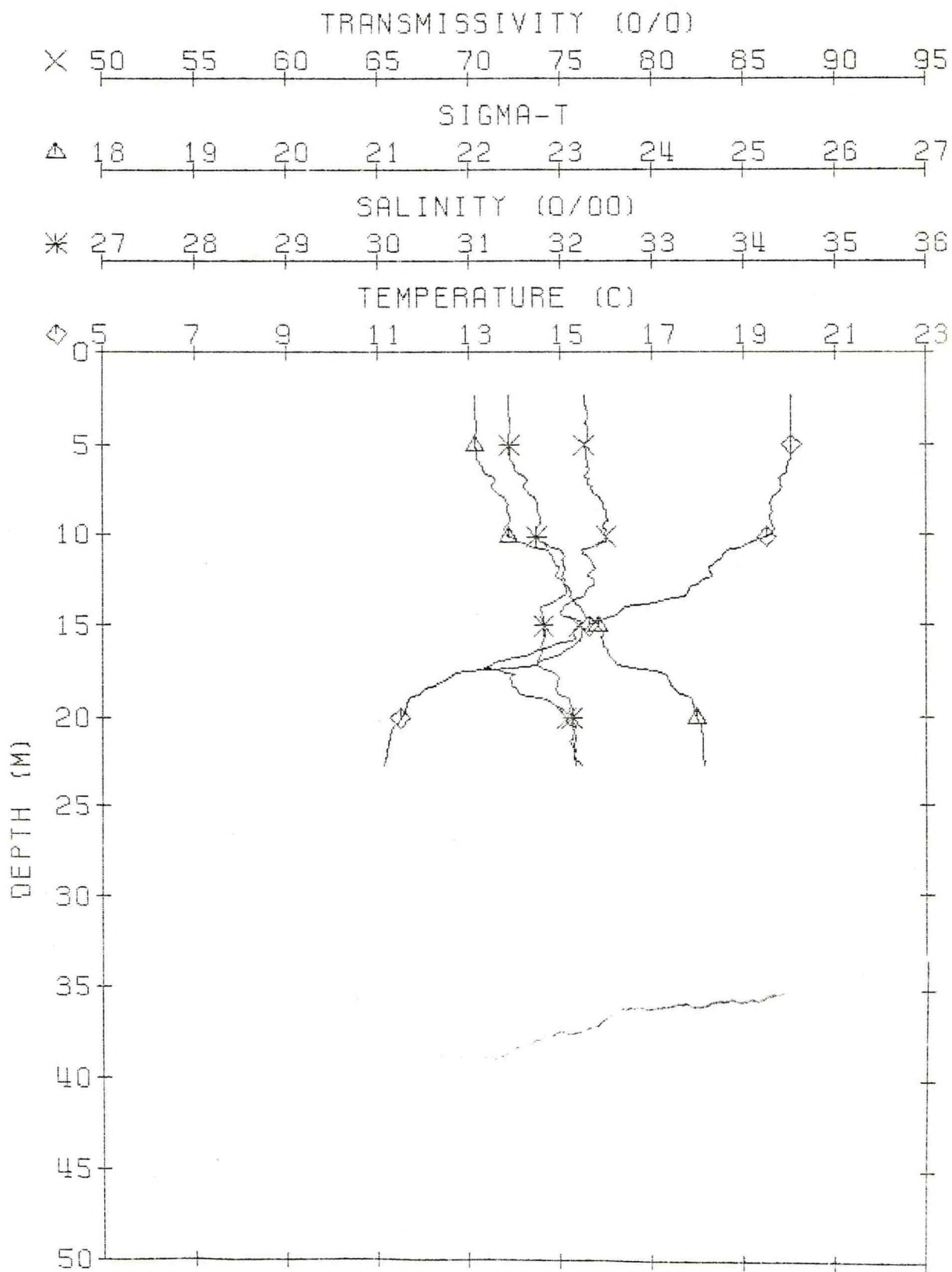


XWCC-10 STA. 15 LAT 40 25.3N; LONG 73 30.4W GMT 10.3 06/29/76  
 DEPTH 24 AIR D/W 20.6/19.4 BARO 13.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 0 WIND DIR/SPD 06/09 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.02	31.43	22.06	76.30	7.9	5.40	.01	.00	2.95	.19
2	20.02	31.43	22.06	76.30	7.9					
3	20.03	31.43	22.06	76.40	7.9					
4	20.02	31.44	22.07	76.40	7.9					
5	20.03	31.43	22.06	76.30	7.9					
6	19.97	31.47	22.11	76.40	7.9					
7	19.77	31.62	22.27	76.50	7.9					
8	19.59	31.72	22.39	77.10	8.0					
9	19.55	31.77	22.44	77.50	8.0					
10	19.55	31.73	22.41	77.40	8.0	5.45	.00	.00	3.85	.18
11	18.57	32.02	22.88	76.20	7.9					
12	18.23	32.03	22.97	76.70	7.9					
13	17.79	32.05	23.09	76.50	7.9					
14	16.44	31.79	23.21	75.10	8.0					
15	15.61	31.81	23.41	76.00	8.0					
16	15.30	31.79	23.46	74.80	8.0					
17	14.51	31.74	23.59	71.40	7.9					
18	12.42	31.96	24.18	72.30	7.8					
19	11.65	32.09	24.42	74.10	7.6					
20	11.48	32.12	24.47	75.30	7.6	2.78	.05	.00	7.87	.45
21	11.25	32.15	24.54	75.70	7.6					
22	11.17	32.14	24.54	75.80	7.6					



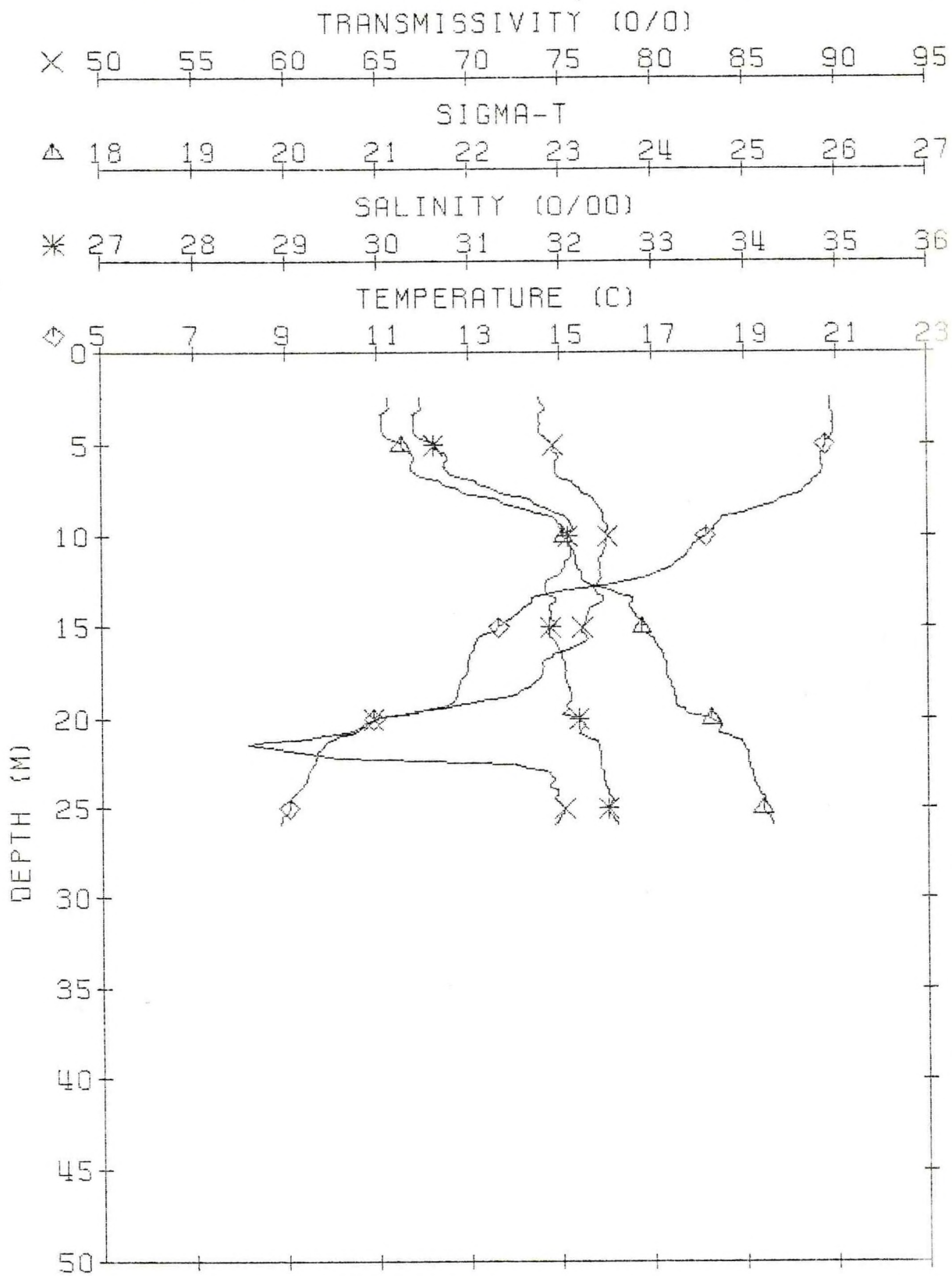
KELEZ CRUISE XWCC-10 STATION 15 JUNE 29, 1976



XWCC-10 STA. 17 LAT 40 18.5N; LONG 73 50.6W GMT 00.8 06/29/76  
 DEPTH 28 AIR D/W . / . BARO 13.0 VIS CLD TYP/CVR X/  
 WETHR WIND DIR/SPD / SEA DIR/HT / SWELL DIR/HT /4

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	20.86	30.46	21.11	73.80	8.0	5.73	.03	.00	4.39	.25
2	20.86	30.46	21.11	73.80	8.0	5.73				
3	20.86	30.47	21.11	74.10	8.0	5.57				
4	20.91	30.38	21.04	73.80	8.0	5.64				
5	20.74	30.61	21.25	74.50	8.0	5.71				
6	20.65	30.72	21.36	74.70	8.0	5.64				
7	20.45	31.06	21.67	75.50	8.0	5.64				
8	19.76	31.66	22.30	76.80	7.9	5.60				
9	18.50	32.06	22.93	77.30	7.8	5.51				
10	18.13	32.08	23.03	77.50	7.8	5.26	.03	.00	2.62	.19
11	17.71	32.11	23.15	77.20	7.9	5.14				
12	17.13	32.01	23.21	77.10	7.9	5.11				
13	15.18	31.83	23.51	76.90	8.1	5.44				
14	14.15	31.68	23.77	76.60	8.2	6.18				
15	13.63	31.89	23.89	76.20	8.2	6.73				
16	13.09	31.96	24.05	75.90	8.2	7.22				
17	12.95	32.04	24.14	74.00	8.2	7.67				
18	12.77	32.06	24.18	73.60	8.2	7.58				
19	12.65	32.10	24.24	70.50	8.0	7.14				
20	10.91	32.18	24.62	64.80	7.7	6.54	.03	.00	8.13	.44
21	10.09	32.28	24.84	61.20	7.5	5.37				
22	9.64	32.43	25.03	62.10	7.5	4.56				
23	9.46	32.45	25.08	74.30	7.4	3.91				
24	9.24	32.50	25.15	74.80		3.37				
25	9.04	32.52	25.19	75.10	7.8	2.88	.00	.00	12.27	.65

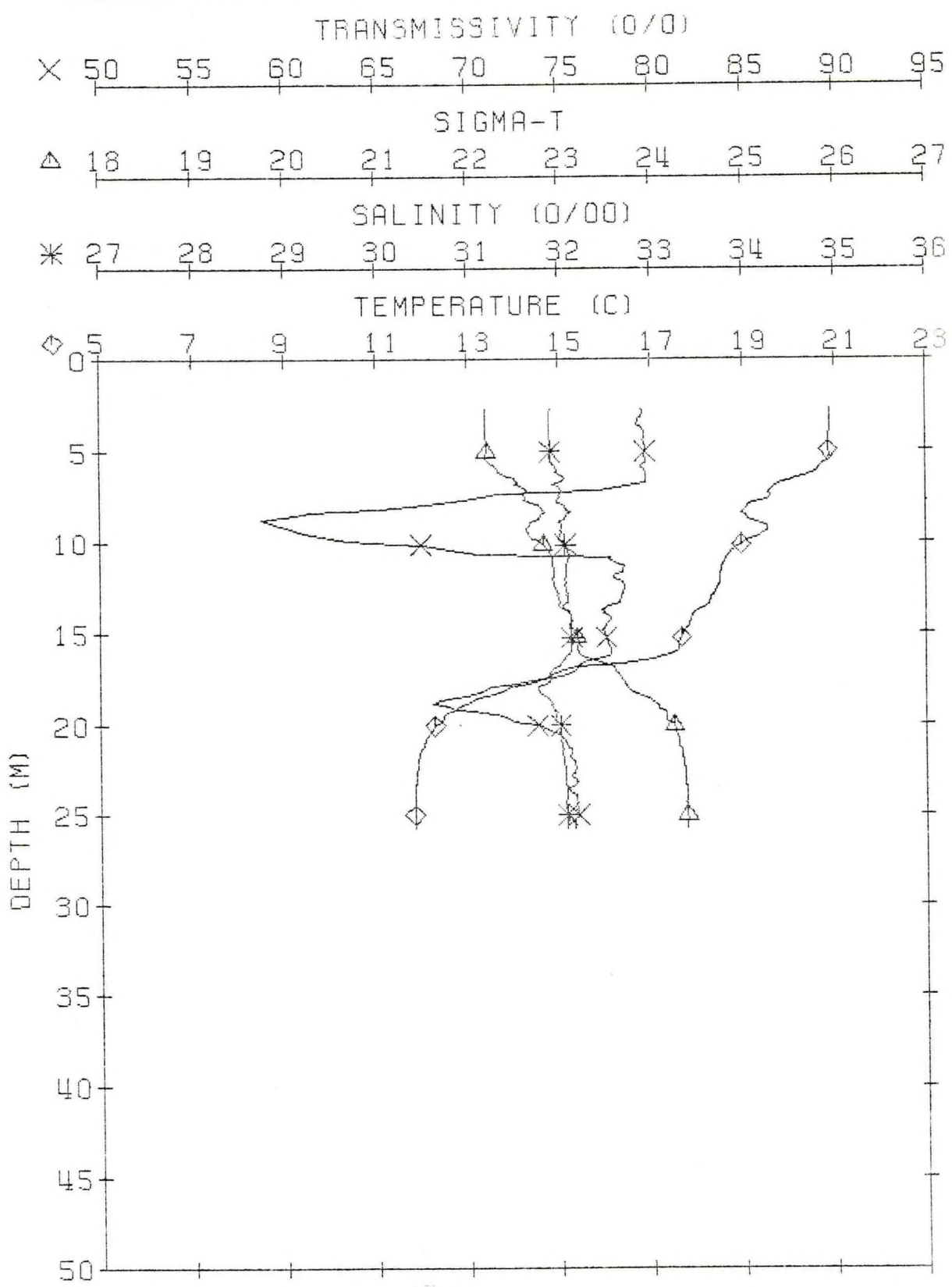
KELEZ CRUISE XWCC-10 STATION 17 JUNE 29, 1976



XWCC-10 STA. 19 LAT 40 20.2N; LONG 73 37.8W GMT 08.7 06/29/76  
 DEPTH 27 AIR D/W 21.1/19.4 BARO 13.0 VIS 7 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 16/10 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	20.88	31.90	22.20	79.50	7.9	4.40	.07	.00	.71	.15
2	20.88	31.90	22.20	79.50	7.9	4.40				
3	20.88	31.90	22.19	79.50	7.9	4.85				
4	20.87	31.90	22.19	79.60	7.9	5.16				
5	20.86	31.90	22.20	79.70	7.9	5.17				
6	20.61	31.97	22.32	79.60	7.9	5.16				
7	19.62	32.01	22.60	77.70	7.8	5.30				
8	19.09	32.06	22.78	66.30	7.5	5.24				
9	19.39	32.02	22.67	59.60	7.5	5.01				
10	19.00	32.05	22.79	65.40	7.6	5.12	.02	.22	2.39	.14
11	18.59	32.09	22.92	77.90	7.9	5.08				
12	18.49	32.07	22.93	78.10	7.9	5.02				
13	18.30	32.08	22.99	78.40	7.9	5.01				
14	17.88	32.12	23.12	77.60	7.9	5.03				
15	17.68	32.13	23.18	77.50	7.9	4.98				
16	17.51	32.11	23.21	77.80	7.9	4.90				
17	15.08	31.92	23.61	75.80	8.0	5.17				
18	13.85	31.76	23.74	71.00	8.0	5.31				
19	12.78	31.92	24.08	68.90	7.9	5.08				
20	12.27	32.00	24.24	73.70	7.8	4.68	.04	.01	9.52	.39
21	12.03	32.02	24.29	75.40	7.8	4.34				
22	11.89	32.05	24.34	75.80	7.8	4.07				
23	11.85	32.06	24.36	75.90	7.7	3.88				
24	11.82	32.07	24.37	75.90	7.7	3.71				
25	11.81	32.08	24.38	76.00	7.7	3.65	.00	.00	9.08	.27

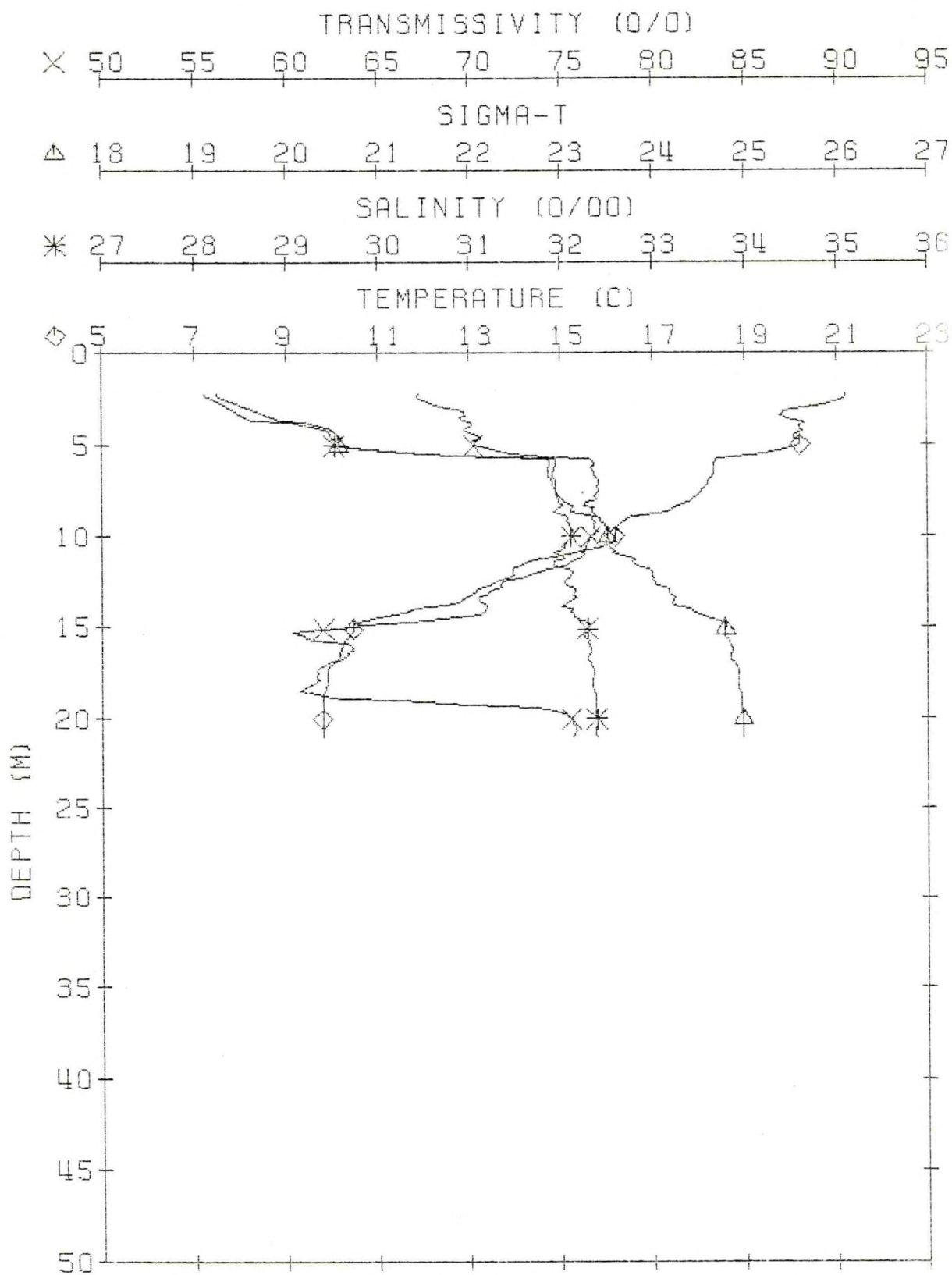
KELEZ CRUISE XWCC-10 STATION 19 JUNE 29, 1976



XWCC-10 STA. 21 LAT 40 13.4N; LONG 73 55.9W GMT 02.4 06/29/76  
 DEPTH 23 AIR D/W 24.2/21.7 BARO 13.0 VIS CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 20/08 SEA DIR/HT 00/0 SWELL DIR/HT 21/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	21.20	28.11	19.24	67.20	8.0	6.38	.07	.00	5.07	.48
2	21.20	28.11	19.24	67.20	8.0	6.38				
3	20.20	28.38	19.70	68.90	8.0	6.42				
4	20.19	29.31	20.41	69.90	8.0	6.08				
5	20.15	29.56	20.61	70.30	8.0	6.03				
6	18.33	31.94	22.88	76.80	7.9	5.89				
7	18.20	31.94	22.91	77.10	7.9	5.66				
8	17.84	31.97	23.01	76.80	7.9	5.55				
9	16.48	32.07	23.41	76.80	7.9	5.59				
10	16.17	32.11	23.51	76.60	8.0	5.57	.02	.00	2.17	.22
11	15.13	31.96	23.63	76.20	8.1	5.72				
12	13.96	32.11	23.99	73.70	8.1	6.27				
13	13.16	32.15	24.18	71.20	8.1	6.44				
14	11.90	32.08	24.37	70.90	7.7	6.11				
15	10.46	32.29	24.79	63.10	7.6	5.31				
16	10.22	32.31	24.84	63.40	7.6	4.54				
17	10.01	32.33	24.89	62.20	7.5	4.04				
18	9.88	32.34	24.92	61.60	7.4	3.57				
19	9.78	32.38	24.96	65.70		3.12				
20	9.77	32.39	24.97	75.50	7.8	2.63	.03	.00	10.19	.50
21	9.77	32.39	24.97	75.70		2.07				

KELEZ CRUISE XWCC-10 STATION 21 JUNE 29, 1976

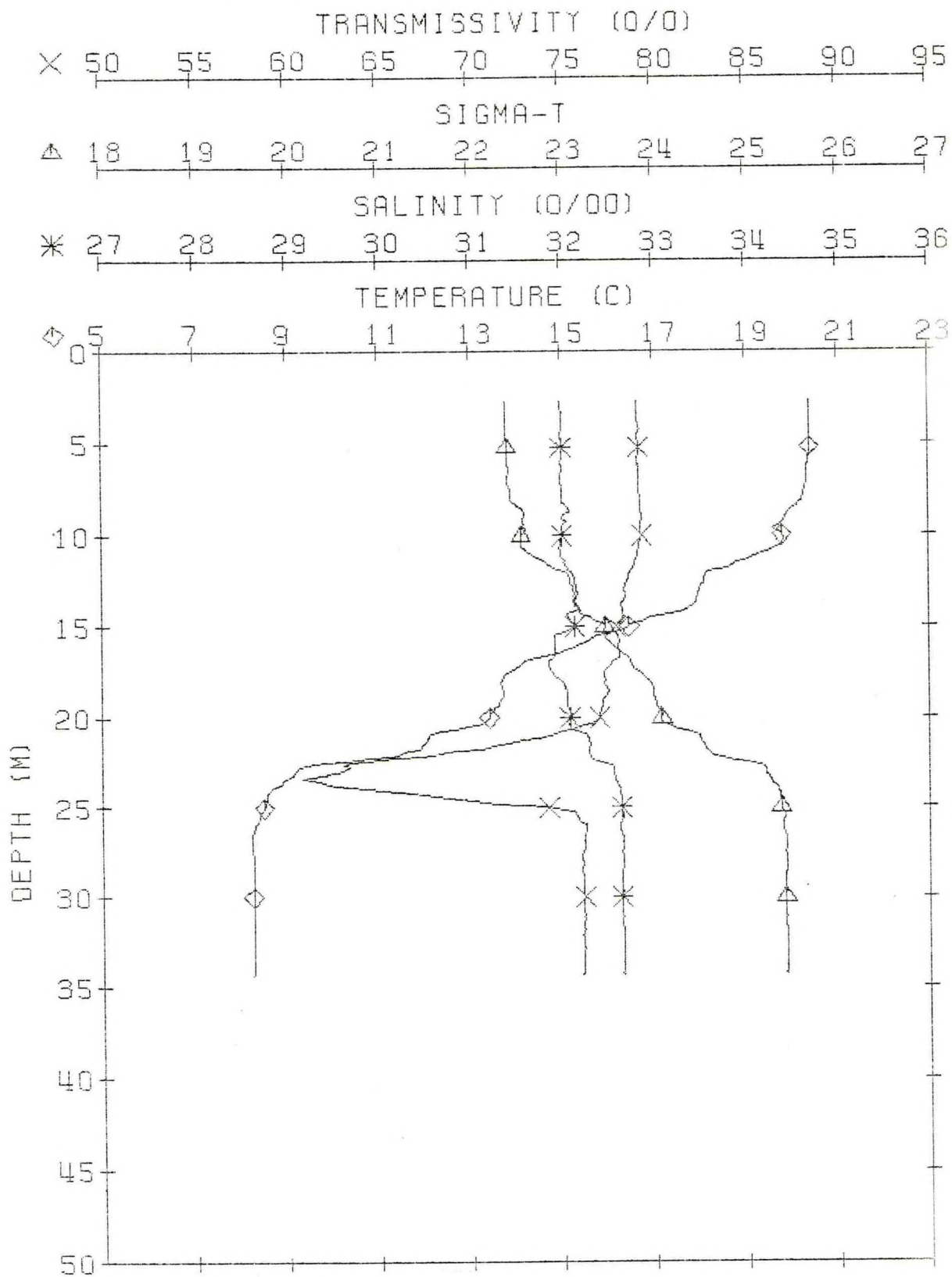


XWCC-10 STA. 23 LAT 40 14.6N; LONG 73 45.5W GMT 05.6 06/29/76  
 DEPTH 33 AIR D/W 21.1/ . BARO 14.0 VIS 7 CLD TYP/CVR 0/0  
 WETHR 0 WIND DIR/SPD 04/02 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	20.40	32.00	22.39	79.10	7.9	5.24	.03	.13	1.54	.08
2	20.40	32.00	22.39	79.10	7.9	5.24				
3	20.40	32.00	22.40	79.10	7.9	5.23				
4	20.40	32.00	22.40	79.20	7.9	5.20				
5	20.38	32.00	22.40	79.20	7.9	5.23				
6	20.34	32.00	22.41	79.20	7.9	5.21				
7	20.32	31.99	22.41	79.20	7.9	5.25				
8	20.22	32.01	22.45	79.30	8.0	5.23				
9	19.85	32.01	22.55	79.40	7.9	5.25				
10	19.79	32.01	22.56	79.30	7.9	5.13	.00	.05	4.16	.19
11	19.33	31.99	22.66	79.10	7.9	5.23				
12	18.21	32.11	23.03	78.70	7.9	5.25				
13	17.98	32.17	23.13	78.40	7.9	5.14				
14	17.75	32.16	23.19	78.30	7.9	5.08				
15	16.44	32.12	23.46	77.90	8.0	5.22				
16	15.40	31.93	23.54	78.10	8.2	5.46				
17	14.14	31.86	23.75	77.70	8.2	5.96				
18	13.67	31.99	23.95	77.30	8.2	6.45				
19	13.65	32.06	24.01	77.20	8.2	7.07				
20	13.40	32.09	24.08	77.00	8.2	7.27				
21	12.10	32.27	24.48	74.30	8.1	7.51				
22	11.41	32.30	24.62	68.00	7.9	7.20				
23	9.18	32.56	25.20	62.80	7.4	6.84				
24	8.65	32.62	25.33	64.60		5.74				
25	8.48	32.64	25.37	74.00	7.4	4.67	.05	.29	8.81	.31
26	8.30	32.63	25.39	76.20		3.56				
27	8.23	32.66	25.42	76.20		2.67				
28	8.24	32.66	25.42	76.10		2.07				
29	8.24	32.65	25.42	76.10		1.71				
30	8.24	32.64	25.41	76.20		1.44				
31	8.24	32.65	25.42	76.20		1.13				
32	8.24	32.66	25.43	76.10	7.6	.99	.02	.42	11.74	.32
33	8.25	32.66	25.42	76.20		.87				
34	8.25	32.65	25.42	76.10		.74				



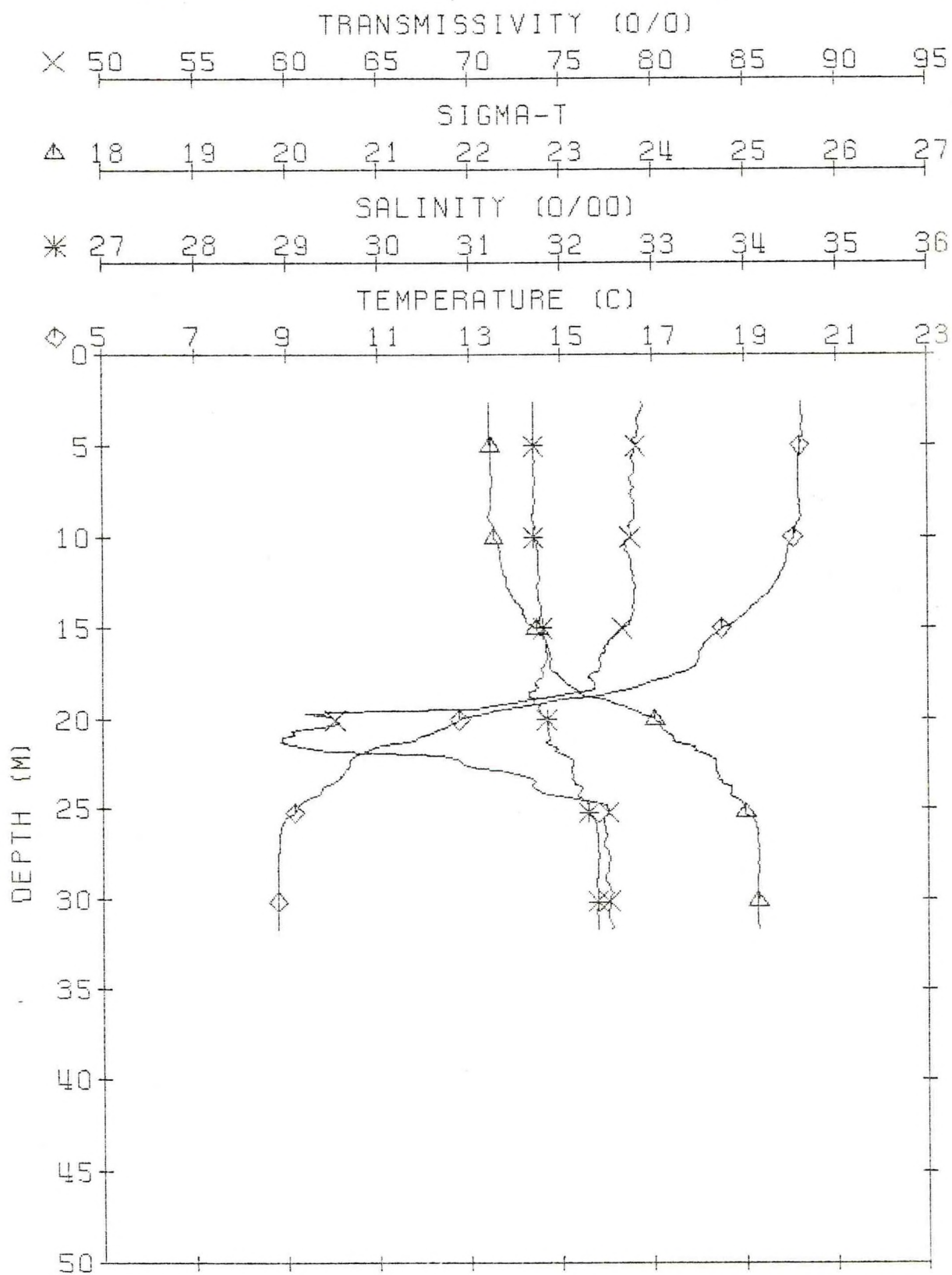
KELEZ CRUISE XWCC-10 STATION 23 JUNE 29, 1976



XWCC-10 STA. 25 LAT 40 17.1N; LONG 73 28.3W GMT 13.8 06/29/76  
 DEPTH 34 AIR D/W 21.7/20.6 BARO 13.0 VIS 6 CLD TYP/CVR 0/0  
 WETR 4 WIND DIR/SPD 19/10 SEA DIR/HT 00/0 SWELL DIR/HT 19/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.23	31.70	22.21	79.40	8.0	5.31	.00	.00	4.56	.12
2	20.23	31.70	22.21	79.40	8.0	5.31				
3	20.23	31.69	22.21	79.40	8.0	5.30				
4	20.23	31.70	22.21	79.20	8.0	5.30				
5	20.19	31.69	22.22	79.00	8.0	5.30				
6	20.16	31.70	22.23	78.90	8.0	5.31				
7	20.14	31.71	22.24	78.80	8.0	5.32				
8	20.17	31.70	22.23	78.90	8.0	5.31				
9	20.17	31.68	22.21	78.90	8.0	5.31				
10	20.04	31.70	22.26	78.70	8.0	5.34	.01	.14	2.51	.12
11	19.90	31.74	22.33	78.70	8.0	5.34				
12	19.77	31.74	22.37	78.90	8.0	5.34				
13	19.53	31.74	22.43	79.00	8.0	5.35				
14	19.07	31.78	22.57	78.90	8.0	5.36				
15	18.50	31.78	22.71	78.30	8.0	5.33				
16	18.07	31.82	22.85	77.40	8.0	5.11				
17	17.91	31.81	22.88	77.10	8.0	4.92				
18	16.88	31.72	23.05	76.80	8.0	4.78				
19	14.74	31.70	23.51	72.80	7.9	4.92				
20	12.76	31.83	24.01	62.60	7.9	4.57	.07	.00	5.89	1.03
21	11.86	31.87	24.21	59.80	7.9	4.66				
22	10.47	32.05	24.59	68.10	7.9	4.87				
23	10.21	32.12	24.70	72.40	7.8	5.00				
24	9.73	32.20	24.84	73.80	7.8	4.88				
25	9.20	32.29	24.99	77.50	7.7	4.84				
26	8.85	32.38	25.11	77.40	7.6	4.52				
27	8.81	32.40	25.13	77.30	7.6	4.22				
28	8.79	32.39	25.13	77.60	7.6	4.07				
29	8.79	32.38	25.12	77.40	7.5	3.96				
30	8.79	32.39	25.13	77.60	7.5	3.86	.03	.00	8.45	.31
31	8.78	32.39	25.13	77.60	7.5	3.83				

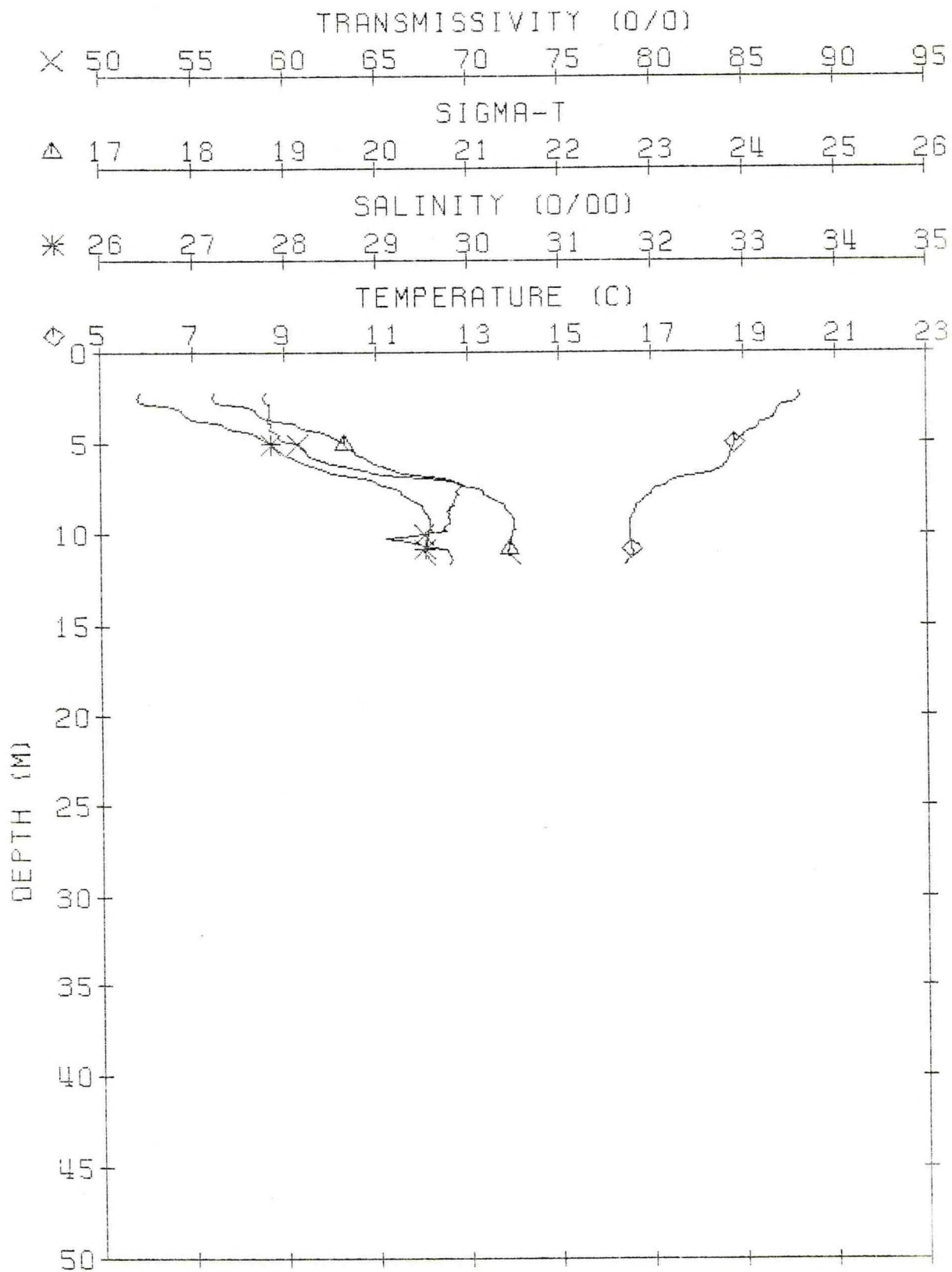
KELEZ CRUISE XWCC-10 STATION 25 JUNE 29, 1976



XWCC-10 STA. 26 LAT 40 29.1N; LONG 73 59.5W GMT 15.4 06/28/76  
 DEPTH 11 AIR D/W 23.1/20.0 BARO 17.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 15/08 SEA DIR/HT 00/0 SWELL DIR/HT 00/0

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	20.17	26.42	18.23	59.00	7.7	4.56	.54	1.67	9.63	1.24
2	20.17	26.42	18.23	59.00	7.7	4.56				
3	19.79	26.78	18.59	59.20	7.7	4.56				
4	19.32	27.33	19.13	59.20	7.8	4.64				
5	18.80	27.84	19.64	60.60	7.8	4.72				
6	18.63	28.16	19.92	62.10	7.8	4.73				
7	17.46	28.92	20.78	68.50	7.7	4.76				
8	16.85	29.35	21.25	69.20	7.7	4.43				
9	16.55	29.55	21.47	68.90	7.7	4.17				
10	16.53	29.55	21.47	67.40	7.7	4.04	.12	.06	6.40	.62
11	16.57	29.52	21.44	68.90	7.7	4.01				

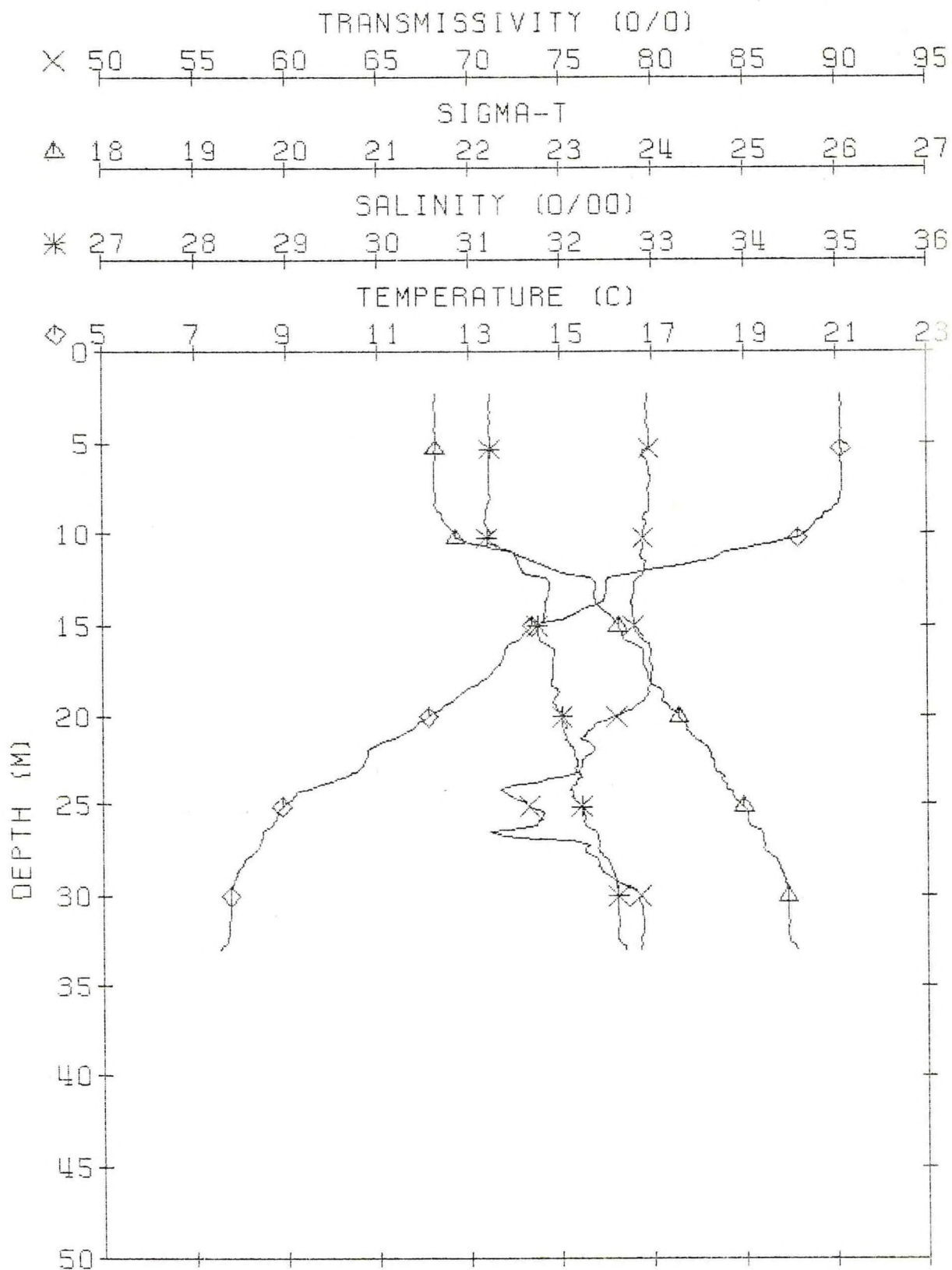
KELEZ CRUISE XWCC-10 STATION 26 JUNE 28, 1976



XWCC-10 STA. 27 LAT 40 18.2N; LONG 73 17.8W GMT 12.3 06/29/76  
 DEPTH 35 AIR D/W 22.2/20.0 BARO 13.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 0 WIND DIR/SPD 09/08 SEA DIR/HT 00/0 SWELL DIR/HT 20/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	21.08	31.23	21.63	79.70	8.0	5.46	.01	.00	2.96	.16
2	21.08	31.23	21.63	79.70	8.0					
3	21.10	31.21	21.61	79.60	8.0					
4	21.08	31.21	21.62	79.70	8.0					
5	21.09	31.22	21.62	79.80	8.0					
6	21.10	31.21	21.61	79.70	8.0					
7	21.11	31.22	21.61	79.90	8.0					
8	21.08	31.21	21.62	79.80	8.0					
9	20.70	31.17	21.69	79.50	8.0					
10	20.28	31.21	21.83	79.50	8.1	4.86	.00	.00	3.68	.12
11	18.59	31.46	22.44	79.40	8.1					
12	16.84	31.57	22.94	79.50	8.1					
13	15.99	31.87	23.36	79.00	8.0					
14	15.56	31.82	23.42	78.90	8.0					
15	14.39	31.75	23.62	79.00	8.1					
16	13.89	31.82	23.78	79.70	8.2					
17	13.67	31.91	23.89	79.90	8.2					
18	13.27	31.90	23.96	79.90	8.2					
19	12.66	31.92	24.10	79.50	8.2					
20	12.07	32.01	24.28	77.90	8.2	7.84	.00	.00	.94	.11
21	11.49	32.04	24.41	76.30	8.2					
22	10.75	32.14	24.62	76.70	8.2					
23	10.53	32.17	24.67	75.90	8.2					
24	9.56	32.11	24.79	72.00	8.0					
25	8.91	32.20	24.96	73.10	7.8					
26	8.68	32.25	25.04	73.70	7.8					
27	8.41	32.40	25.20	75.10	7.5					
28	8.09	32.49	25.32	76.90	7.5					
29	7.85	32.58	25.42	77.70	7.4					
30	7.75	32.61	25.46	79.20	7.4					
31	7.75	32.61	25.46	79.40	7.4					
32	7.73	32.61	25.46	79.40	7.4					
33	7.52	32.70	25.56	79.30	7.3	3.00	.00	.00	13.97	.71

KELEZ CRUISE XWCC-10 STATION 27 JUNE 29, 1976

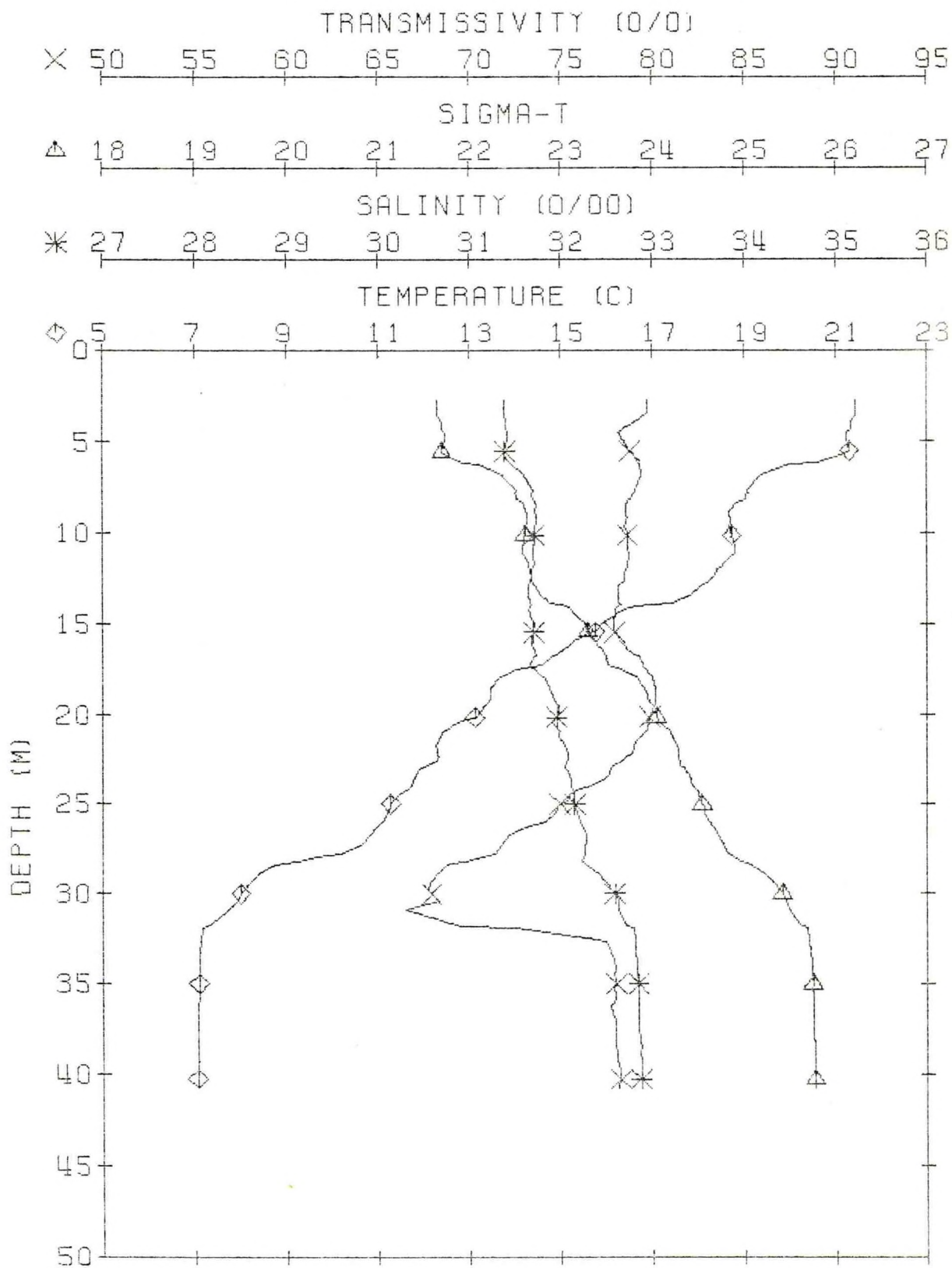


XWCC-10 STA. 28 LAT 40 13.0N; LONG 73 7.0W GMT 08.4 07/01/76  
 DEPTH 41 AIR D/W 22.5/21.1 BARO 09.0 VIS 7 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 21/00 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	21.43	31.37	21.64	79.70	8.0	5.24	.00	.13	3.65	.13
2	21.43	31.37	21.64	79.70	8.0	5.24				
3	21.43	31.37	21.64	79.70	8.0	5.23				
4	21.33	31.39	21.69	78.90	8.0	5.23				
5	21.23	31.40	21.72	78.50	8.0	5.26				
6	20.72	31.42	21.88	79.10	8.0	5.26				
7	19.28	31.61	22.39	79.30	8.0	5.40				
8	19.02	31.69	22.51	78.80	8.0	5.35				
9	18.67	31.72	22.62	78.50	8.0	5.39				
10	18.71	31.70	22.60	78.60	8.0	5.38	.07	.49	1.56	.16
11	18.79	31.70	22.58	78.70	8.0	5.33				
12	18.41	31.68	22.66	78.50	8.0	5.31				
13	18.01	31.64	22.72	78.10	8.0	5.37				
14	16.67	31.66	23.05	78.10	8.0	5.46				
15	15.87	31.71	23.27	77.90	8.0	5.57				
16	15.24	31.67	23.38	78.30	8.0	5.52				
17	14.67	31.68	23.50	79.40	8.2	5.74				
18	13.62	31.82	23.83	80.00	8.2	6.31				
19	13.44	31.92	23.94	80.10	8.2	6.54				
20	13.14	31.96	24.03	79.90	8.2	6.77	.08	.00	.00	.16
21	12.39	31.98	24.19	79.50	8.2	7.07				
22	12.29	32.07	24.28	78.90	8.2	7.18				
23	11.95	32.05	24.33	77.70	8.2	7.47				
24	11.69	32.12	24.43	76.40	8.2	7.61				
25	11.27	32.15	24.53	75.00	8.1	7.89				
26	11.06	32.21	24.62	73.90	8.1	8.01				
27	10.72	32.27	24.72	71.90	8.0	8.06				
28	9.66	32.24	24.88	70.60	8.0	8.14				
29	8.34	32.42	25.22	68.20	7.8	8.28				
30	7.99	32.59	25.40	67.90	7.7	8.43	.04	.00	12.11	1.03
31	7.68	32.63	25.48	66.80	7.5	8.44				
32	7.15	32.79	25.68	73.20		8.23				
33	7.10	32.81	25.70	77.70		8.02				
34	7.08	32.83	25.72	77.90		7.39				
35	7.07	32.84	25.73	78.00		6.49				
36	7.07	32.84	25.73	77.90		5.62				
37	7.06	32.84	25.74	77.90		4.83				
38	7.05	32.86	25.75	77.90		4.32				
39	7.05	32.87	25.76	78.10		3.75				
40	7.04	32.87	25.76	78.20	7.8	3.24	.00	.00	15.13	.97



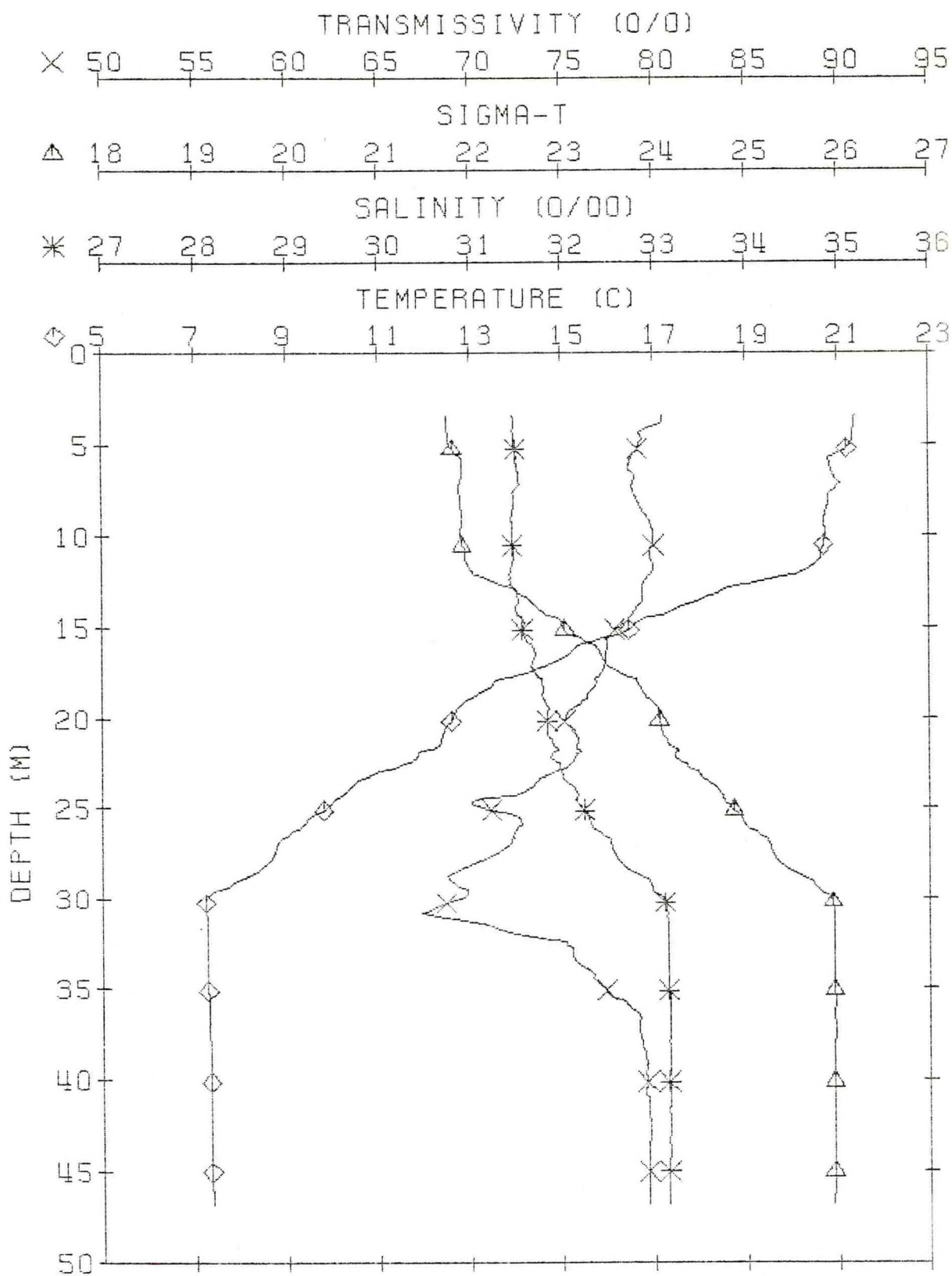
KELEZ CRUISE XWCC-10 STATION 28 JULY 1, 1976



XWCC-10 STA. 29 LAT 40 6.5N; LONG 72 54.5W GMT 06.1 07/01/76  
 DEPTH 49 AIR D/W 21.7/21.1 BARO 09.0 VIS 7 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 00/00 SEA DIR/HT 00/0 SWELL DIR/HT 17/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	21.37	31.47	21.73	80.50	8.0	5.48	.01	.56	2.29	.06
2	21.37	31.47	21.73	80.50	8.0	5.48				
3	21.37	31.47	21.73	80.50	8.0	5.48				
4	21.35	31.47	21.74	79.80	8.0	5.45				
5	21.27	31.49	21.78	79.20	8.0	5.42				
6	20.82	31.50	21.91	78.70	8.0	5.54				
7	21.00	31.53	21.88	78.90	8.0	5.46				
8	20.78	31.47	21.89	79.10	8.0	5.43				
9	20.69	31.45	21.90	79.70	8.0	5.46				
10	20.72	31.46	21.90	80.00	8.0	5.57	.04	.39	.62	.09
11	20.61	31.48	21.94	79.80	8.1	5.55				
12	20.15	31.43	22.03	79.90	8.1	5.63				
13	18.46	31.50	22.51	79.40	8.1	5.93				
14	17.45	31.51	22.76	79.00	8.1	6.10				
15	16.51	31.57	23.02	78.00	8.1	6.18				
16	15.38	31.67	23.35	77.50	8.2	6.44				
17	14.70	31.67	23.49	77.30	8.2	6.58				
18	13.53	31.78	23.82	76.80	8.2	6.93				
19	12.91	31.80	23.96	76.20	8.2	7.25				
20	12.59	31.84	24.05	75.20	8.3	7.50	.01	.00	1.00	.27
21	12.36	31.87	24.11	75.80	8.3	7.71				
22	11.84	31.89	24.23	75.80	8.2	8.29				
23	10.90	32.00	24.48	74.50	8.1	8.41				
24	10.31	32.14	24.69	73.10	8.0	8.40				
25	9.82	32.22	24.84	70.80	7.7	7.87				
26	9.29	32.32	25.00	72.60	7.6	7.18				
27	8.79	32.53	25.24	72.10	7.5	6.00				
28	8.57	32.63	25.35	70.30	7.5	5.58				
29	7.92	32.92	25.68	69.00	7.4	4.92				
30	7.23	33.09	25.91	69.30	7.3	4.19	.01	.00	3.48	.40
31	7.24	33.13	25.94	68.30	7.3	4.02				
32	7.25	33.14	25.94	72.70	7.3	3.81				
33	7.25	33.15	25.95	75.50	7.3	3.65				
34	7.26	33.14	25.94	76.40	7.4	3.54				
35	7.26	33.14	25.94	77.30	7.4	3.44				
36	7.29	33.16	25.95	78.60	7.4	3.40				
37	7.30	33.16	25.95	79.20	7.4	3.34				
38	7.30	33.15	25.94	79.30	7.4	3.29				
39	7.31	33.15	25.95	79.50	7.4	3.18				
40	7.31	33.15	25.94	79.60	7.4	3.22	.01	.00	10.15	.57
41	7.32	33.15	25.94	79.60	7.4	3.13				
42	7.32	33.15	25.94	79.70	7.4	3.21				
43	7.32	33.15	25.94	79.70	7.5	3.14				
44	7.33	33.15	25.94	79.60	7.5	3.09				
45	7.33	33.15	25.94	79.60	7.5	3.06				
46	7.34	33.14	25.93	79.60	7.5	3.03	.02	.44	10.75	.65

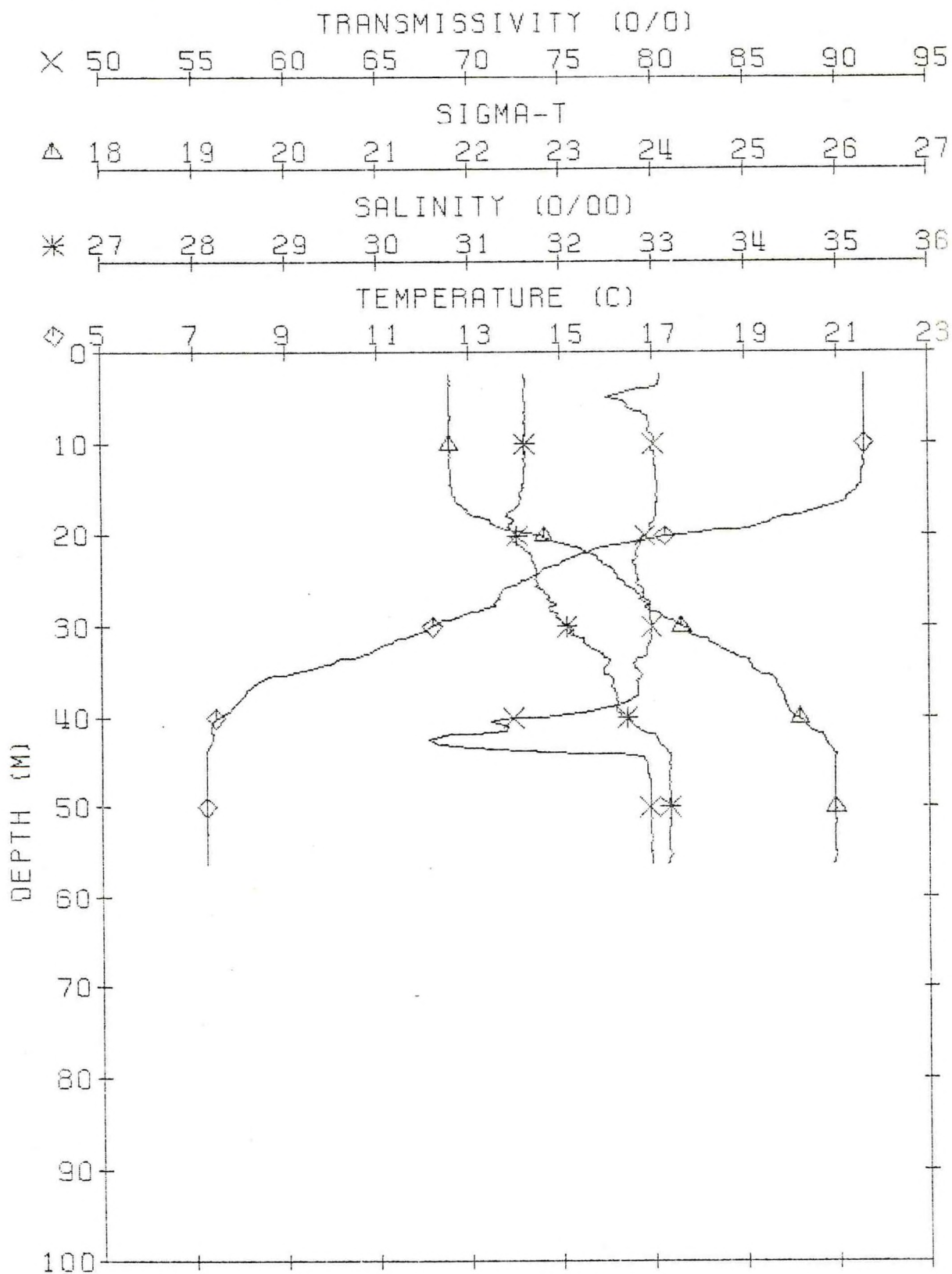
KELEZ CRUISE XWCC-10 STATION 29 JULY 1, 1976



XWCC-10 STA. 30 LAT 40 2.5N; LONG 72 41.2W GMT 03.9 07/01/76  
 DEPTH 59 AIR D/W 23.3/22.2 BARO 09.0 VIS 7 CLD TYP/CVR X/4  
 WETHR 4 WIND DIR/SPD 20/20 SEA DIR/HT 17/1 SWELL DIR/HT 17/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	21.57	31.60	21.78	80.40	8.0	5.38	.00	.01	1.78	.03
2	21.57	31.60	21.78	80.40	8.0	5.38				
3	21.57	31.60	21.78	80.40	8.0	5.38				
4	21.57	31.59	21.77	79.40	8.0	5.33				
5	21.57	31.60	21.78	77.70	8.0	5.35				
6	21.57	31.60	21.78	78.70	8.0	5.30				
7	21.57	31.61	21.79	79.70	8.0	5.37				
8	21.57	31.60	21.78	79.80	8.0	5.35				
9	21.58	31.60	21.78	80.00	8.0	5.38				
10	21.58	31.60	21.78	80.00	8.0	5.38	.06	.00	.22	.09
11	21.57	31.60	21.78	80.00	8.1	5.33				
12	21.57	31.60	21.78	80.00	8.1	5.39				
13	21.53	31.59	21.78	80.10	8.1	5.31				
14	21.51	31.59	21.79	80.20	8.1	5.37				
15	21.43	31.58	21.80	80.20	8.1	5.44				
16	21.19	31.55	21.85	80.20	8.1	5.44				
17	20.72	31.50	21.93	80.20	8.1	5.50				
18	19.86	31.41	22.09	80.10	8.1	5.60				
19	19.26	31.43	22.26	79.80	8.1	5.75				
20	17.99	31.51	22.77	79.60	8.2	5.93	.06	.00	.00	.08
21	16.30	31.52	23.03	79.30	8.2	6.21				
22	15.50	31.65	23.31	79.10	8.2	6.38				
23	14.99	31.65	23.45	78.90	8.2	6.54				
24	14.53	31.73	23.57	79.00	8.2	6.78				
25	14.13	31.73	23.66	79.20	8.3	6.93				
26	13.71	31.80	23.80	79.40	8.2	7.12				
27	13.61	31.85	23.86	79.60	8.2	7.16				
28	13.33	31.87	23.93	79.80	8.2	7.35				
29	12.66	31.95	24.12	79.80	8.2	7.57				
30	12.16	32.07	24.31	79.90	8.2	7.67	.00	.00	.15	.04
31	11.68	32.21	24.45	79.90	8.2	7.79				
32	11.13	32.27	24.65	79.70	8.1	7.91				
33	10.72	32.44	24.85	79.60	8.1	7.92				
34	9.99	32.50	25.03	78.90	8.0	7.99				
35	9.18	32.45	25.12	79.30	7.9	7.83				
36	8.30	32.56	25.32	79.10	7.9	7.79				
37	8.12	32.58	25.38	79.10	7.8	7.59				
38	7.99	32.60	25.42	78.80	7.8	7.30				
39	7.77	32.60	25.44	77.00	7.7	7.10				
40	7.47	32.69	25.56	72.70	7.6	6.85	.03	.00	.00	.28
41	7.36	32.81	25.67	72.00	7.5	6.49				
42	7.31	33.02	25.83	68.50	7.4	6.18				
43	7.31	33.08	25.88	68.80	7.4	5.99				
44	7.25	33.17	25.97	77.50	7.4	5.29				
45	7.25	33.16	25.96	79.60	7.4	4.80				
46	7.25	33.17	25.96	79.70	7.4	4.41				
47	7.25	33.16	25.96	79.80	7.4	4.12				
48	7.25	33.17	25.96	79.80	7.4	3.90				
49	7.25	33.17	25.96	79.80	7.5	3.83				
50	7.25	33.17	25.97	79.80	7.5	3.65				
55	7.26	33.18	25.97	79.80	7.5	3.42	.05	.00	12.57	.48
56	7.26	33.16	25.96	79.90	7.5	3.47				

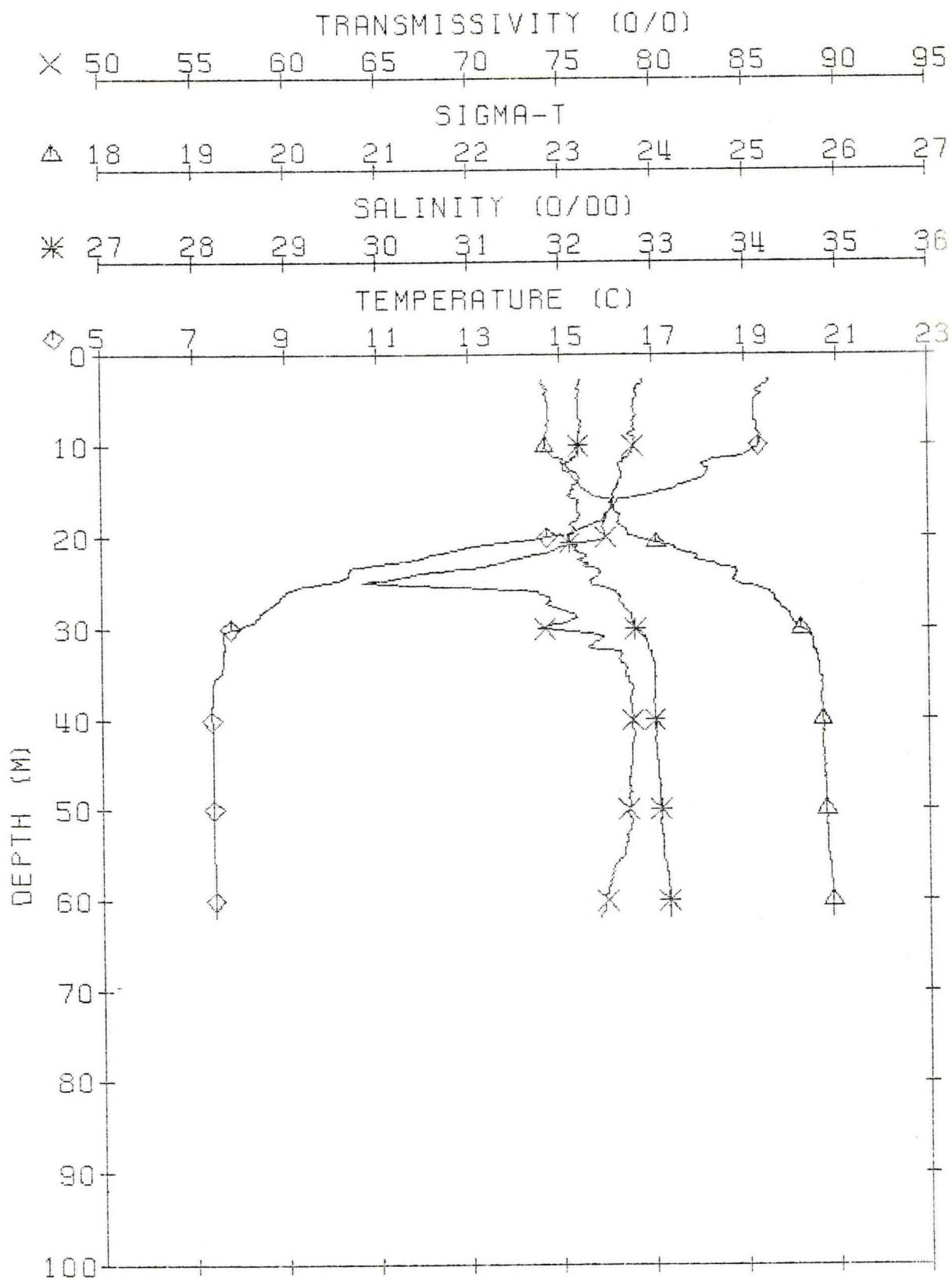
KELEZ CRUISE XWCC-10 STATION 30 JULY 1, 1976



XWCC-10 STA. 33 LAT 40 10.2N; LONG 73 41.5W GMT 17.0 06/29/76  
 DEPTH 62 AIR D/W 23.3/21.7 BARO 12.5 VIS 4 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 20/10 SEA DIR/HT 00/0 SWELL DIR/HT 21/0

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	19.50	32.22	22.79	79.40	7.8	5.15	.05	.00	1.79	.24
2	19.50	32.22	22.79	79.40	7.8	5.15				
3	19.50	32.21	22.79	79.50	7.8	5.09				
4	19.24	32.21	22.85	79.10	7.9	5.15				
5	19.19	32.19	22.85	79.00	7.9	5.17				
6	19.18	32.19	22.85	78.90	7.9	5.18				
7	19.17	32.20	22.87	78.90	7.9	5.17				
8	19.26	32.21	22.85	78.90	7.9	5.14				
9	19.34	32.19	22.82	78.90	7.9	5.14				
10	19.28	32.19	22.83	78.90	7.9	5.14	.00	.00	4.15	.30
11	18.98	32.17	22.89	78.70	7.9	5.19				
12	18.07	32.05	23.02	78.10	7.9	5.26				
13	18.15	32.16	23.09	78.30	7.9	5.16				
14	17.73	32.17	23.20	78.10	7.9	5.18				
15	17.17	32.11	23.28	77.90	7.9	5.16				
16	16.22	32.18	23.55	77.80	7.8	5.15				
17	16.05	32.17	23.58	77.60	7.8	4.93				
18	15.91	32.18	23.62	77.40	7.8	4.80				
19	15.45	32.15	23.70	77.30	7.8	4.76				
20	14.70	32.08	23.81	77.40	7.8	4.79	.00	.00	6.38	.35
21	13.00	32.16	24.22	75.00	7.9	4.74				
22	12.15	32.26	24.45	73.50	7.9	4.62				
23	10.95	32.26	24.63	71.20	7.8	4.44				
24	10.36	32.41	24.90	67.30	7.7	4.25				
25	9.88	32.50	24.92	64.50	7.6	4.05				
26	9.98	32.59	25.26	73.70	7.3	3.79				
27	8.78	32.63	25.22	74.30	7.3	3.20				
28	8.51	32.71	25.43	75.20	7.3	2.70				
29	8.32	32.77	25.50	75.50	7.3	2.18				
30	7.80	32.79	25.59	74.20	7.3	1.85	.01	.00	13.83	.44
31	7.61	32.91	25.72	77.20	7.3	1.65				
32	7.65	32.94	25.73	76.50	7.3	1.43				
33	7.62	32.98	25.77	78.20	7.3	1.36				
34	7.60	32.90	25.79	78.50	7.3	1.27				
35	7.53	32.90	25.80	78.50	7.3	1.26				
36	7.40	32.90	25.82	78.70	7.3	1.28				
37	7.38	32.90	25.82	78.80	7.3	1.29				
38	7.37	32.90	25.82	78.70	7.3	1.29				
39	7.36	32.90	25.83	78.80	7.3	1.29				
40	7.37	32.90	25.82	78.80	7.3	1.29				
41	7.37	32.90	25.83	78.90	7.3	1.29				
42	7.37	32.90	25.83	78.90	7.3	1.31				
43	7.37	32.90	25.83	78.80	7.3	1.34				
44	7.38	32.90	25.83	78.80	7.3	1.31				
45	7.40	32.95	25.85	78.80	7.3	1.34				
46	7.40	32.95	25.85	78.70	7.3	1.33				
47	7.40	32.95	25.85	78.60	7.3	1.34				
48	7.40	32.96	25.86	78.70	7.3	1.35				
49	7.40	32.96	25.86	78.70	7.3	1.41				
50	7.40	32.97	25.86	78.60	7.3	1.39	.05	.00	12.20	.50
60	7.42	33.15	25.93	77.40	7.4	1.51	.16	.00	18.24	.86
61	7.42	33.15	25.93	77.30	7.4	1.61				

KELEZ CRUISE XWCC-10 STATION 33 JUNE 29, 1976

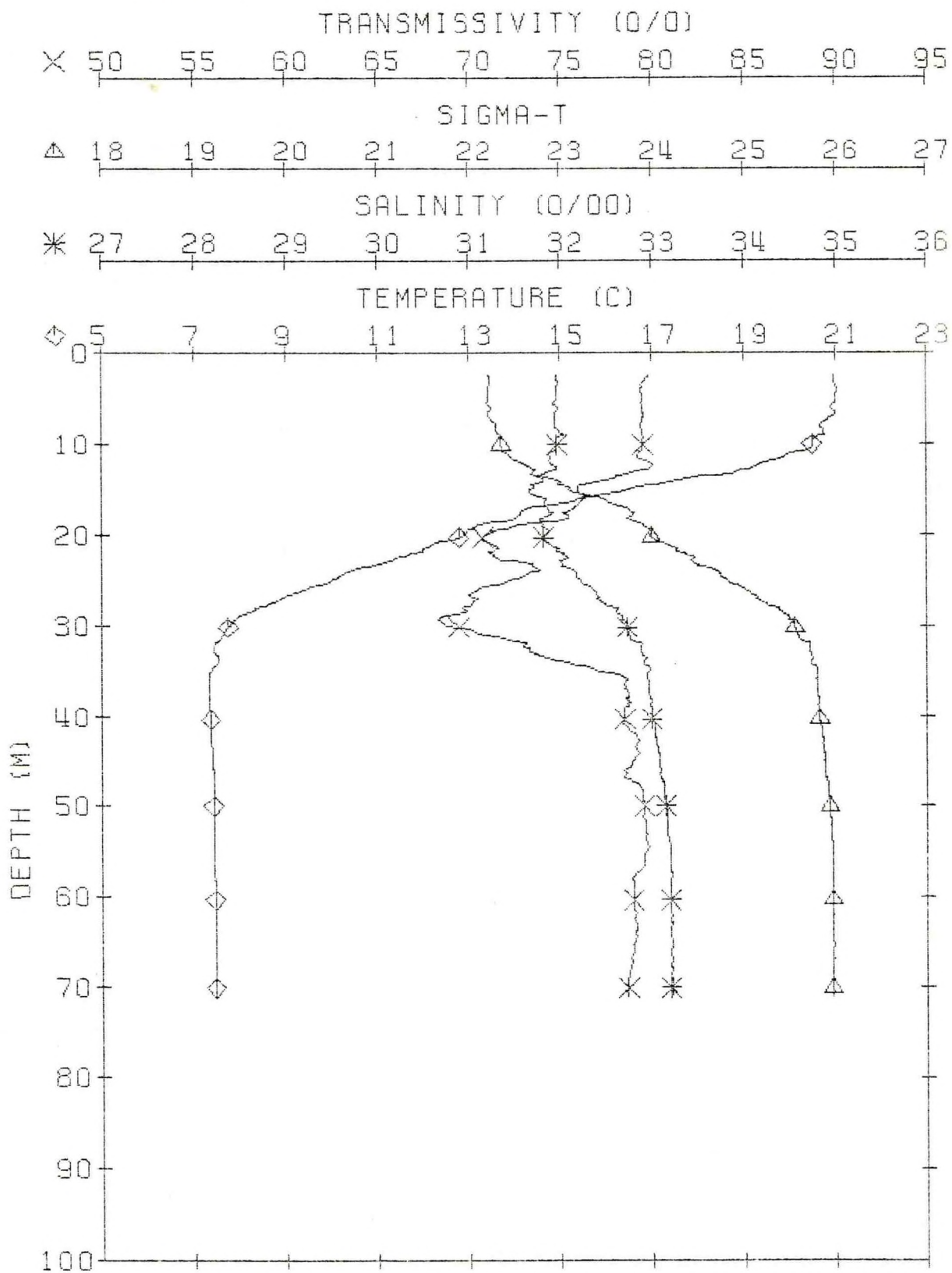


XWCC-10 STA. 34 LAT 40 5.7N; LONG 73 31.4W GMT 21.0 06/29/76  
 DEPTH 75 AIR D/W 22.2/21.4 BARO 11.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 19/13 SEA DIR/HT 00/0 SWELL DIR/HT 18/1

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	20.95	31.95	22.22	79.80	7.9	5.42	.00	.15	2.70	.12
2	20.95	31.95	22.22	79.80	7.9	5.42				
3	20.95	31.97	22.23	79.60	7.9	5.42				
4	21.01	31.96	22.20	79.40	8.0	5.39				
5	20.98	31.95	22.21	79.50	8.0	5.40				
6	20.90	31.97	22.24	79.50	8.0	5.41				
7	20.86	31.94	22.23	79.50	8.0	5.43				
8	20.65	31.94	22.29	79.40	8.0	5.46				
9	20.66	31.92	22.34	79.50	8.0	5.39				
10	20.47	31.96	22.35	79.50	8.0	5.47	.08	.00	.96	.15
11	20.02	31.89	22.41	79.30	8.0	5.49				
12	19.47	31.89	22.55	79.90	8.0	5.51				
13	18.83	31.87	22.70	79.00	8.0	5.53				
14	17.48	31.81	22.98	77.20	8.0	5.58				
15	16.44	31.67	23.11	76.00	8.0	5.68				
16	15.33	31.83	23.47	76.20	8.0	5.73				
17	14.00	31.83	23.72	75.70	8.1	5.63				
18	13.00	31.83	23.75	75.40	8.1	5.70				
19	13.13	31.81	23.92	72.30	8.2	5.94				
20	12.84	31.82	23.99	70.80	8.2	6.30	.13	.00	.58	.31
21	12.19	31.80	24.17	71.30	8.2	6.71				
22	11.75	31.80	24.36	71.20	8.2	7.18				
23	11.12	31.80	24.45	73.20	8.1	7.53				
24	10.34	31.16	24.71	73.50	8.0	7.70				
25	9.95	31.23	24.83	72.10	7.9	7.61				
26	9.38	31.36	25.01	70.50	7.7	7.48				
27	8.88	31.42	25.14	70.30	7.5	7.09				
28	8.34	31.61	25.37	69.70	7.4	6.47				
29	7.93	31.49	25.49	68.40	7.3	6.03				
30	7.76	32.72	25.54	69.10	7.3	5.56	.00	.02	15.80	.63
31	7.60	32.74	25.58	71.10	7.3	4.98				
32	7.43	32.88	25.71	73.10	7.3	4.22				
33	7.44	32.92	25.72	73.50	7.3	3.75				
34	7.50	32.92	25.73	75.40	7.3	3.40				
35	7.33	32.96	25.79	77.40	7.3	3.14				
36	7.32	32.96	25.79	78.60	7.3	2.85				
37	7.32	32.96	25.79	78.60	7.3	2.63				
38	7.32	32.99	25.81	78.60	7.3	2.40				
39	7.33	32.99	25.81	78.50	7.3	2.24				
40	7.35	32.99	25.81	78.50	7.3	2.12				
41	7.36	33.02	25.83	78.50	7.3	2.03				
42	7.35	33.04	25.84	79.10	7.3	1.95				
43	7.36	33.04	25.85	79.10	7.3	1.90				
44	7.38	33.07	25.87	79.20	7.3	1.81				
45	7.40	33.08	25.87	78.90	7.3	1.78				
46	7.41	33.09	25.88	78.50	7.3	1.74				
47	7.41	33.10	25.89	78.80	7.3	1.75				
48	7.41	33.12	25.91	79.40	7.3	1.74				
49	7.41	33.13	25.91	79.50	7.3	1.75				
50	7.41	33.15	25.93	79.50	7.3	1.77	.04	.01	16.68	.62
60	7.44	33.19	25.96	78.90	7.4	2.05				
70	7.45	33.19	25.96	78.70	7.5	2.12	.17	.04	11.88	.68



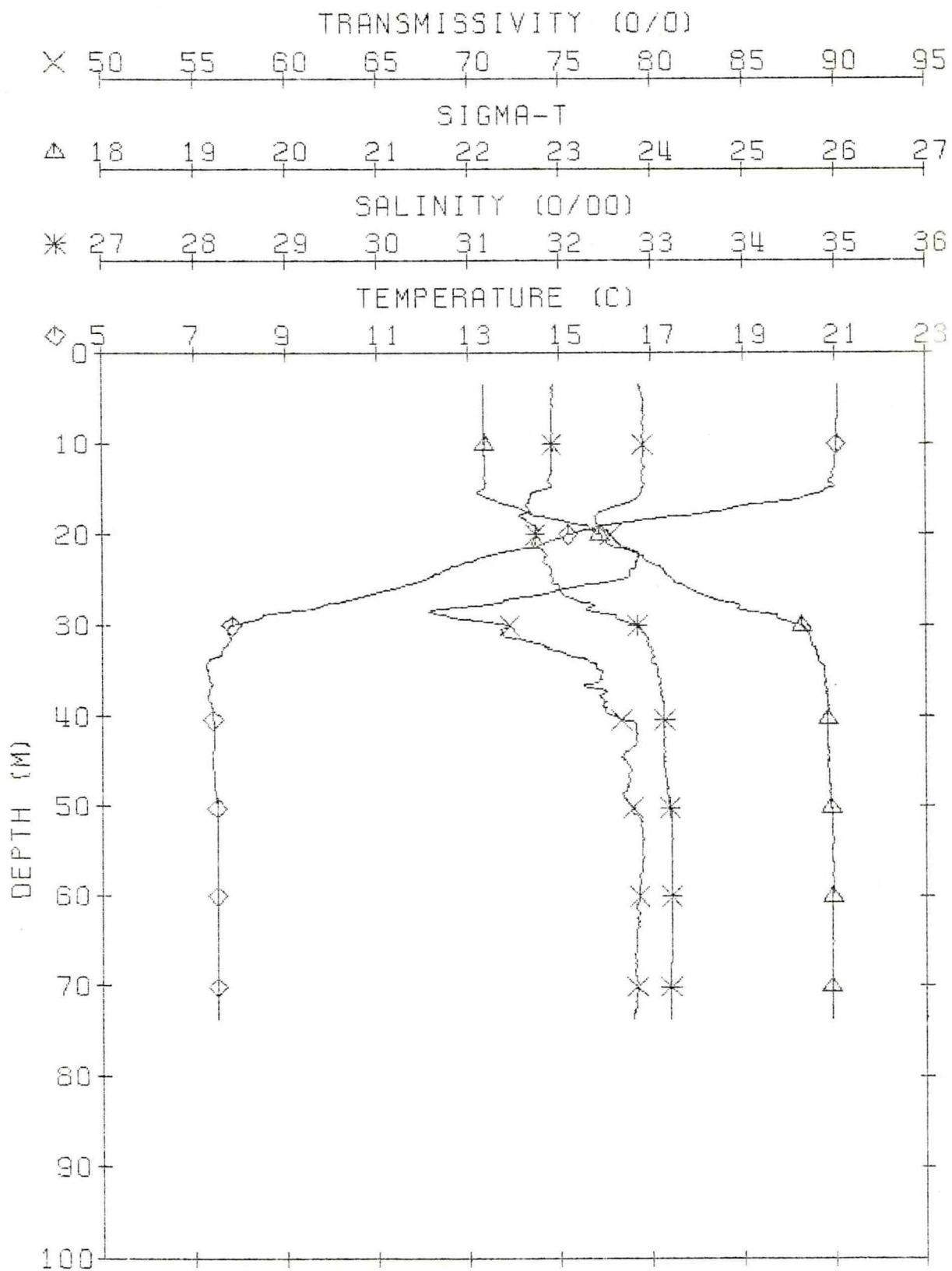
KELEZ CRUISE XWCC-10 STATION 34 JUNE 29, 1976



XWCC-10 STA. 35 LAT 39 59.4N; LONG 73 21.0W GMT 03.3 06/30/76  
 DEPTH 73 AIR D/W 22.2/21.7 BARO 11.0 VIS 6 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 20/18 SEA DIR/HT 20/0 SWELL DIR/HT 20/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.04	31.92	22.16	79.30	7.9	5.34	.00	.01	3.67	.12
2	21.04	31.92	22.16	79.30	7.9	5.34				
3	21.04	31.92	22.16	79.30	7.9	5.34				
4	21.04	31.92	22.16	79.40	7.9	5.34				
5	21.05	31.92	22.16	79.60	7.9	5.35				
6	21.05	31.92	22.16	79.50	8.0	5.31				
7	21.04	31.91	22.16	79.60	8.0	5.37				
8	21.03	31.91	22.16	79.50	8.0	5.34				
9	21.04	31.91	22.16	79.50	8.0	5.33				
10	21.01	31.91	22.17	79.50	8.0	5.38	.06	.00	.48	.14
11	21.02	31.90	22.16	79.60	8.0	5.35				
12	20.98	31.91	22.17	79.50	8.0	5.39				
13	20.93	31.90	22.18	79.50	8.0	5.39				
14	20.85	31.86	22.17	79.50	8.0	5.41				
15	20.84	31.82	22.15	79.50	8.0	5.38				
16	20.23	31.67	22.19	79.20	8.1	5.47				
17	18.78	31.66	22.55	77.80	8.1	5.65				
18	17.48	31.55	22.78	76.90	8.1	5.73				
19	15.90	31.72	23.27	77.20	8.1	5.92				
20	15.19	31.72	23.43	77.70	8.1	5.89	.06	.00	1.17	.21
21	14.62	31.69	23.52	78.20	8.2	5.99				
22	13.69	31.82	23.82	79.10	8.2	6.37				
23	12.96	31.82	23.96	79.20	8.2	6.76				
24	12.43	31.90	24.13	78.80	8.2	7.03				
25	11.96	31.93	24.23	78.10	8.2	7.27				
26	11.33	31.99	24.40	75.30	8.2	7.51				
27	10.45	32.14	24.67	72.20	8.1	7.84				
28	9.64	32.31	24.93	69.00	7.7	7.73				
29	8.47	32.61	25.55	68.90	7.4	7.04				
30	7.81	32.84	25.63	72.20	7.3	5.86	.04	.00	5.75	.24
31	7.74	32.93	25.71	71.80	7.3	4.87				
32	7.72	32.96	25.73	73.70	7.3	4.21				
33	7.58	32.99	25.79	75.10	7.3	3.49				
34	7.30	32.99	25.82	76.60	7.3	3.09				
35	7.27	32.99	25.88	77.20	7.3	2.66				
36	7.32	33.09	25.89	77.20	7.3	2.45				
37	7.33	33.10	25.90	77.20	7.3	2.35				
38	7.29	33.09	25.91	77.30	7.3	2.29				
39	7.37	33.13	25.92	77.50	7.3	2.17				
40	7.39	33.13	25.91	78.10	7.3	2.19	.05	.30	7.14	.40
41	7.42	33.13	25.91	79.10	7.3	2.15				
42	7.41	33.13	25.91	79.20	7.3	2.18				
43	7.42	33.13	25.91	79.10	7.3	2.15				
44	7.39	33.14	25.92	78.50	7.3	2.16				
45	7.40	33.13	25.92	78.70	7.3	2.14				
46	7.41	33.15	25.93	78.80	7.4	2.14				
47	7.42	33.15	25.93	78.70	7.4	2.15				
48	7.43	33.16	25.94	78.60	7.4	2.13				
49	7.45	33.17	25.94	78.50	7.4	2.17				
50	7.47	33.19	25.95	78.90	7.4	2.11	.05	.00	8.95	.40
60	7.48	33.21	25.97	79.30	7.5	2.22	.12	.00	14.04	.46
70	7.48	33.20	25.95	79.20	7.6	2.30	.13	.00	15.48	.54
73	7.48	33.19	25.95	79.00	7.6	2.28				

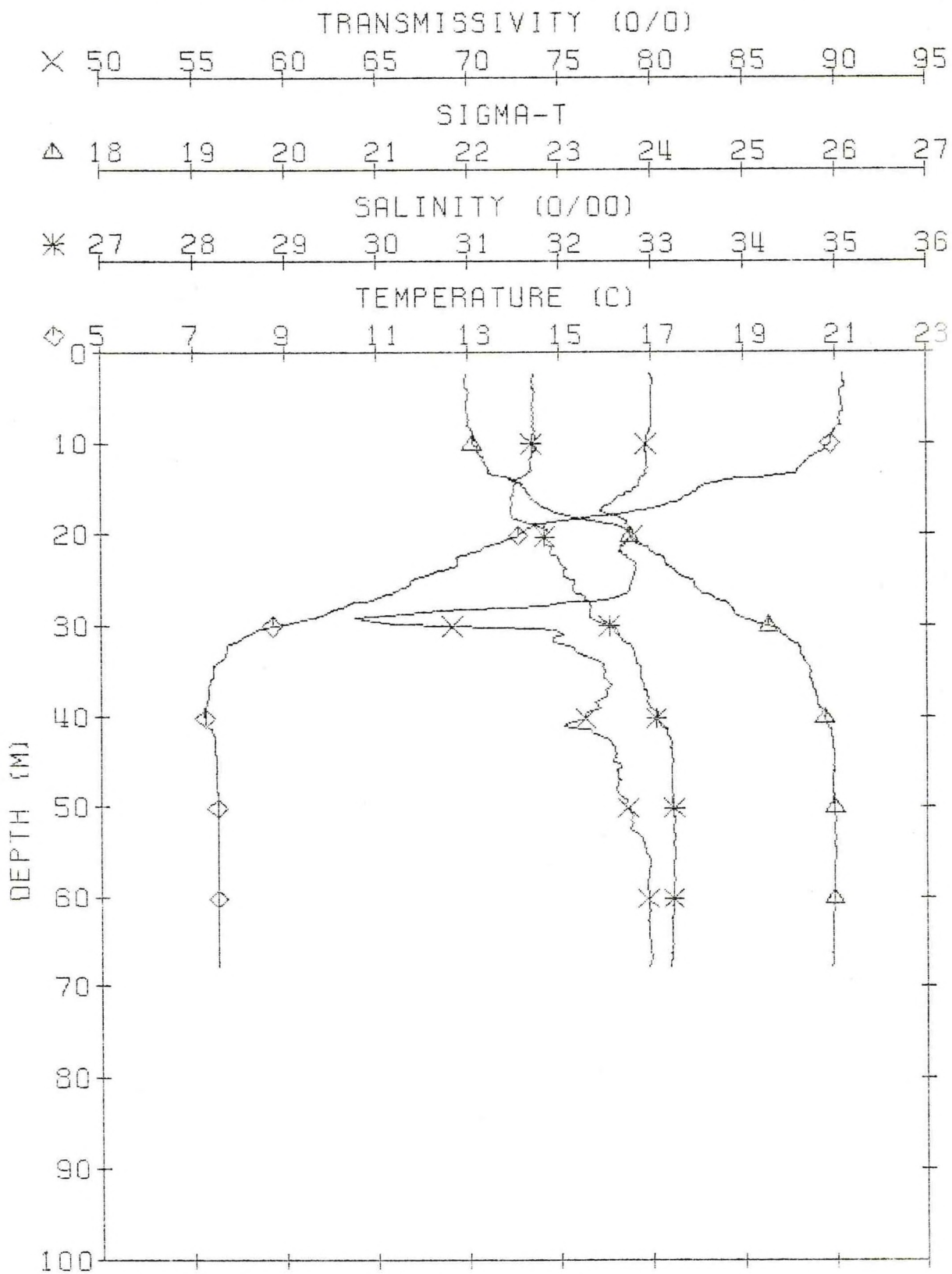
KELEZ CRUISE XWCC-10 STATION 35 JUNE 30, 1976



XWCC-10 STA. 36 LAT 39 55.1N; LONG 73 6.0W GMT 18.2 06/30/76  
 DEPTH 65 AIR D/W 22.2/21.9 BARO 10.0 VIS 6 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 17/18 SEA DIR/HT 17/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.16	31.70	21.97	79.90	8.0	5.41	.01	.00	2.47	.08
2	21.16	31.70	21.97	79.90	8.0	5.41				
3	21.17	31.69	21.96	80.00	8.0	5.41				
4	21.11	31.71	21.99	80.00	8.0	5.42				
5	21.11	31.71	21.99	80.00	8.0	5.42				
6	21.14	31.70	21.97	80.00	8.0	5.38				
7	21.07	31.70	21.99	80.00	8.0	5.38				
8	21.07	31.69	21.99	80.00	8.0	5.41				
9	20.92	31.72	22.04	79.79	8.0	5.43				
10	20.87	31.70	22.04	79.70	8.0	5.46				
11	20.64	31.69	22.10	79.70	8.0	5.46				
12	20.31	31.67	22.17	79.70	8.0	5.48				
13	20.15	31.68	22.22	79.60	8.0	5.44				
14	18.60	31.47	22.45	79.30	8.1	5.75				
15	18.00	31.49	22.61	79.00	8.1	5.82				
16	17.67	31.47	22.67	78.10	8.1	5.92				
17	17.08	31.46	22.81	77.30	8.2	6.06				
18	15.75	31.48	23.12	78.00	8.2	6.28				
19	14.41	31.73	23.60	78.70	8.2	6.54				
20	14.11	31.85	23.75	78.90	8.2	6.68	.09	.00	.00	.09
21	13.62	31.83	23.84	78.60	8.2	6.68				
22	13.08	31.90	24.00	78.30	8.2	6.95				
23	12.75	32.00	24.14	79.00	8.2	7.10				
24	12.37	32.04	24.25	79.10	8.2	7.26				
25	11.75	32.15	24.44	78.90	8.2	7.60				
26	11.47	32.14	24.49	78.80	8.2	7.81				
27	11.09	32.28	24.68	77.80	8.1	7.96				
28	10.18	32.33	24.86	71.60	8.0	7.99				
29	9.68	32.33	24.94	64.40	7.8	7.81				
30	8.70	32.54	25.26	69.40	7.5	7.39	.08	.00	3.26	.34
31	8.15	32.64	25.43	75.00	7.5	6.74				
32	7.78	32.75	25.56	75.10	7.5	6.04				
33	7.70	32.80	25.61	76.00	7.4	5.09				
34	7.51	32.83	25.66	77.30	7.4	4.26				
35	7.41	32.88	25.72	77.40	7.4	3.58				
36	7.36	32.89	25.73	77.50	7.4	3.29				
37	7.31	32.92	25.76	77.50	7.4	2.83				
38	7.30	32.95	25.79	77.20	7.4	2.64				
39	7.23	32.99	25.82	77.10	7.4	2.39				
40	7.23	33.05	25.87	76.30	7.4	2.23				
41	7.30	33.10	25.91	75.40	7.4	2.21				
42	7.43	33.17	25.94	77.10	7.4	2.12				
43	7.46	33.20	25.96	77.80	7.4	2.12				
44	7.47	33.21	25.97	78.00	7.4	2.05				
45	7.47	33.22	25.97	78.00	7.4	2.05				
46	7.48	33.21	25.97	78.10	7.4	2.10				
47	7.48	33.20	25.96	78.20	7.4	2.15				
48	7.50	33.21	25.96	78.10	7.4	2.16				
49	7.51	33.21	25.96	78.40	7.4	2.16				
50	7.51	33.23	25.98	78.60	7.4	2.18	.09	.00	6.34	.35
60	7.52	33.23	25.97	79.70	7.4	2.33	.05	.00	11.67	.48
67	7.53	33.20	25.95	79.90	7.5	2.37				

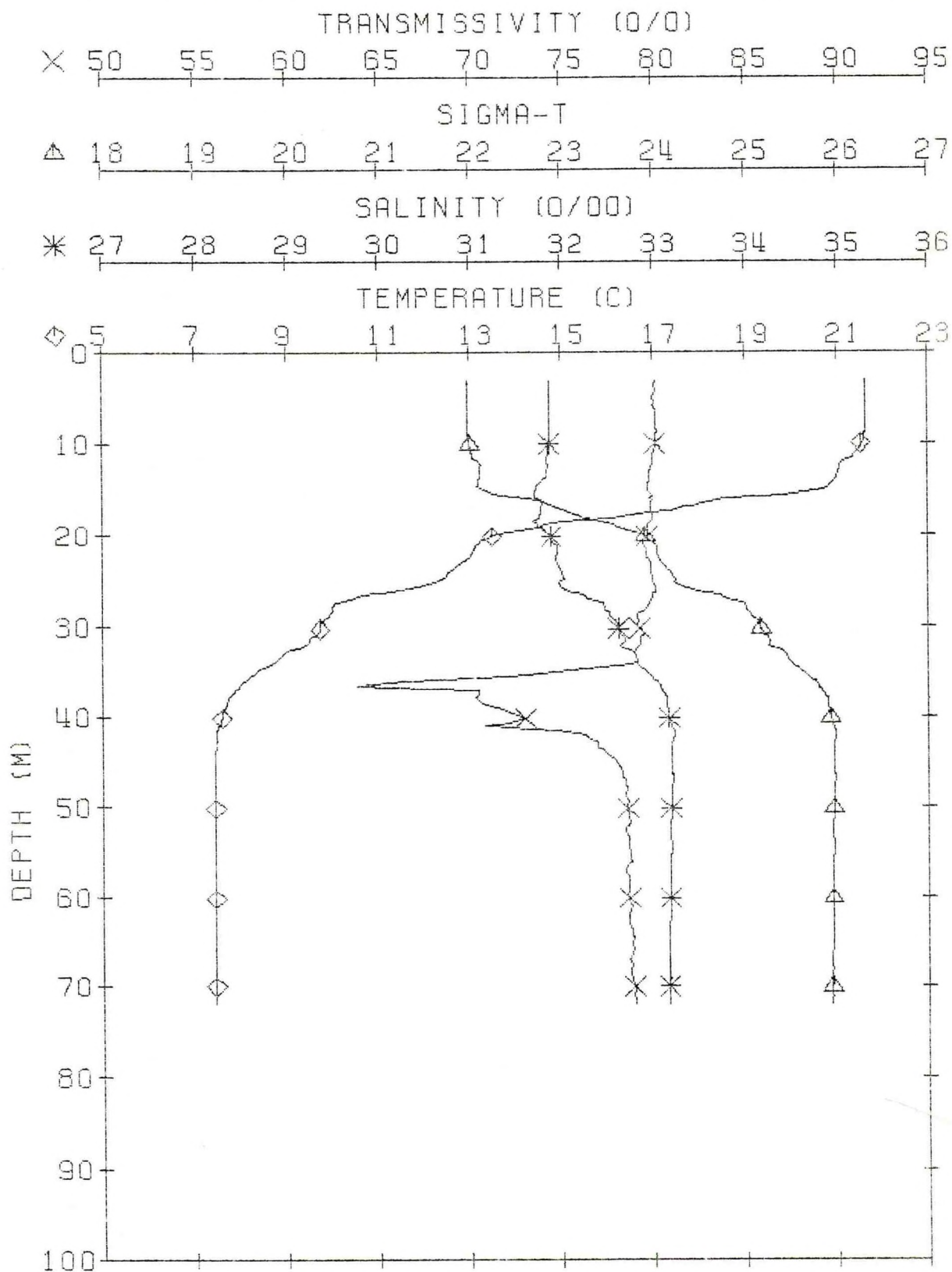
KELEZ CRUISE XWCC-10 STATION 36 JUNE 30, 1976



XWCC-10 STA. 37 LAT 39 45.8N; LONG 72 57.5W GMT 21.7 06/30/76  
 DEPTH 75 AIR D/W 24.4/23.3 BARO 09.0 VIS 6 CLD TYP/CVR X/4  
 WETHR 4 WIND DIR/SPD 17/17 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.62	31.88	21.98	80.10	8.0	5.36	.06	.00	.73	.06
2	21.62	31.88	21.98	80.10	8.0					
3	21.62	31.88	21.98	80.10	8.0					
4	21.61	31.88	21.98	80.10	7.9					
5	21.60	31.87	21.98	80.00	8.0					
6	21.62	31.88	21.98	80.00	8.0					
7	21.62	31.87	21.97	80.20	8.0					
8	21.61	31.87	21.98	80.10	8.0					
9	21.59	31.87	21.98	80.20	8.0					
10	21.53	31.87	22.00	80.10	8.0	5.43	.13	.00	.24	.06
11	21.41	31.85	22.02	80.00	8.0					
12	21.13	31.85	22.09	80.00	8.0					
13	21.02	31.84	22.11	79.80	8.0					
14	20.94	31.79	22.10	79.80	8.0					
15	20.61	31.72	22.13	79.80	8.0					
16	18.53	31.73	22.65	79.90	8.1					
17	17.53	31.78	22.95	79.90	8.1					
18	16.24	31.76	23.23	79.90	8.2					
19	14.52	31.76	23.60	79.70	8.2					
20	13.51	31.89	23.91	79.70	8.2	7.30	.15	.00	.00	.10
21	13.14	31.94	24.02	79.50	8.2					
22	13.03	31.95	24.05	79.60	8.2					
23	12.80	31.96	24.10	79.90	8.2					
24	12.54	32.01	24.19	79.90	8.2					
25	12.26	32.09	24.23	80.00	8.2					
26	11.99	32.06	24.44	80.10	8.2					
27	10.31	32.33	24.84	79.90	8.1					
28	9.99	32.48	25.01	79.60	8.1					
29	9.86	32.55	25.08	79.10	8.0					
30	9.71	32.62	25.16	79.20	8.0	2.97	.16	.00	.00	.16
31	9.57	32.67	25.22	79.40	7.9					
32	9.38	32.66	25.25	79.20	7.8					
33	8.90	32.80	25.43	79.00	7.7					
34	8.66	32.83	25.49	78.90	7.6					
35	8.30	32.93	25.63	74.20	7.4					
36	8.04	33.04	25.75	66.00	7.4					
37	7.84	33.10	25.83	70.50	7.4					
38	7.69	33.15	25.89	70.40	7.4					
39	7.63	33.15	25.90	71.60	7.4					
40	7.57	33.17	25.92	72.90	7.4					
41	7.50	33.19	25.95	71.20	7.4					
42	7.44	33.22	25.98	76.20	7.3					
43	7.44	33.20	25.98	77.00	7.3					
44	7.43	33.19	25.96	77.40	7.3					
45	7.43	33.20	25.96	78.00	7.4					
46	7.43	33.19	25.96	78.30	7.4					
47	7.43	33.21	25.97	78.40	7.4					
48	7.42	33.20	25.96	78.50	7.4					
49	7.43	33.19	25.96	78.60	7.4					
50	7.43	33.19	25.95	78.60	7.4	5.80	.15	.00	6.22	.30
60	7.43	33.17	25.94	78.60	7.5					
70	7.43	33.16	25.93	78.90	7.6	3.01	.12	.00	10.68	.50
71	7.42	33.16	25.93	78.90	7.6					

KELEZ CRUISE XWCC-10 STATION 37 JUNE 30, 1976

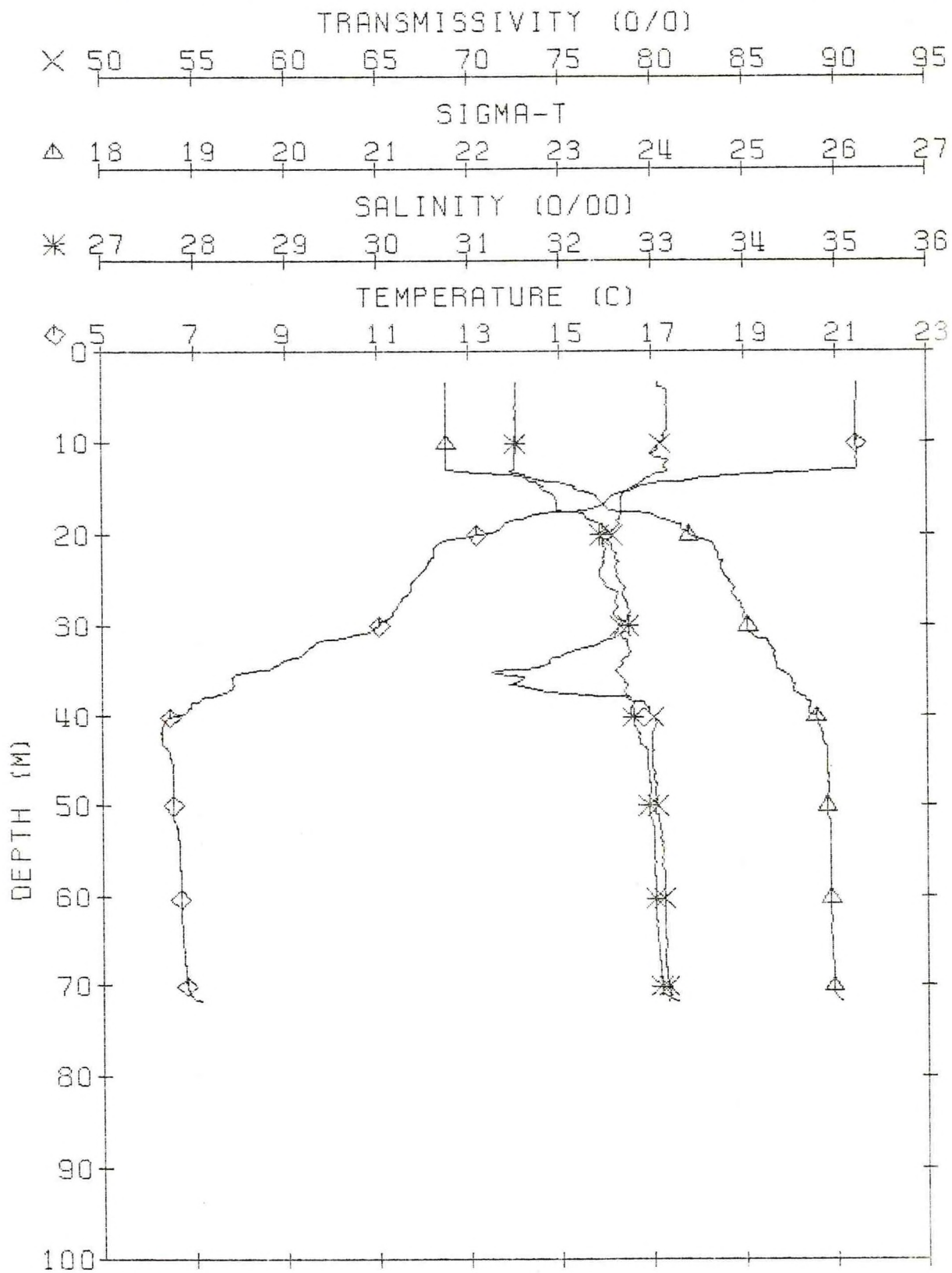


XWCC-10 STA. 38 LAT 39 38.9N; LONG 72 39.8W GMT 00.5 07/01/76  
 DEPTH 76 AIR D/W 22.5/21.7 BARO 09.0 VIS 6 CLD TYP/CVR X/4  
 WETHR 4 WIND DIR/SPD 18/18 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	21.44	31.50	21.74	80.30	8.0	5.48	.10	.00	.00	.06
2	21.44	31.50	21.74	80.30	8.0	5.48				
3	21.44	31.50	21.74	80.30	8.0	5.48				
4	21.44	31.50	21.74	80.40	8.0	5.47				
5	21.44	31.50	21.74	80.80	8.0	5.42				
6	21.43	31.50	21.74	80.70	8.0	5.46				
7	21.43	31.50	21.75	80.80	8.1	5.45				
8	21.43	31.50	21.75	80.80	8.1	5.45				
9	21.43	31.50	21.74	80.60	8.1	5.46				
10	21.43	31.50	21.75	80.50	8.1	5.46	.03	.00	.00	.08
11	21.44	31.49	21.74	80.10	8.1	5.50				
12	21.44	31.50	21.74	80.80	8.1	5.48				
13	21.14	31.47	21.80	80.80	8.1	5.51				
14	17.91	31.64	22.75	79.60	8.2	6.20				
15	16.61	31.78	23.16	78.70	8.2	6.87				
16	16.08	31.94	23.40	78.30	8.2	7.48				
17	15.73	31.96	23.49	78.30	8.3	7.85				
18	14.32	32.28	24.04	78.20	8.3	8.50				
19	13.72	32.46	24.30	78.10	8.3	9.09				
20	13.16	32.43	24.40	77.80	8.2	9.34	.05	.00	.00	.10
21	12.31	32.55	24.65	77.30	8.2	9.49				
22	12.22	32.60	24.71	77.40	8.2	9.25				
23	12.10	32.63	24.75	77.30	8.1	9.14				
24	11.97	32.61	24.76	77.10	8.1	9.12				
25	11.76	32.65	24.83	77.40	8.1	9.00				
26	11.71	32.69	24.87	77.90	8.1	8.79				
27	11.51	32.70	24.92	78.00	8.0	8.65				
28	11.39	32.73	24.96	78.10	8.0	8.33				
29	11.28	32.72	24.97	78.00	8.0	8.14				
30	11.01	32.73	25.03	78.20	8.0	7.98	.03	.00	.00	.19
31	10.46	32.67	25.07	78.00	7.9	7.77				
32	9.60	32.72	25.26	77.00	7.8	7.58				
33	8.88	32.76	25.33	75.50	7.8	7.28				
34	8.89	32.67	25.33	74.40	7.8	7.15				
35	8.18	32.60	25.39	71.30	7.8	6.92				
36	7.81	32.69	25.51	72.80	7.8	6.83				
37	7.74	32.70	25.53	73.80	7.8	6.48				
38	7.15	32.76	25.66	78.60	7.7	6.44				
39	6.89	32.77	25.70	79.80	7.7	6.37				
40	6.52	32.77	25.75	80.00	7.7	6.31	.00	.00	6.91	.51
41	6.30	32.80	25.80	80.20	7.7	6.21				
42	6.27	32.85	25.84	80.00	7.7	6.11				
43	6.29	32.86	25.85	80.00	7.7	5.98				
44	6.44	32.94	25.90	80.00	7.6	5.74				
45	6.49	32.94	25.89	79.90	7.6	5.65				
46	6.51	32.95	25.89	80.00	7.6	5.51				
47	6.53	32.96	25.90	80.10	7.6	5.36				
48	6.53	32.97	25.91	80.20	7.6	5.23				
49	6.53	32.96	25.90	80.20	7.7	5.19				
50	6.53	32.96	25.89	80.20	7.7	5.10	.00	.00	2.65	.42
60	6.67	33.02	25.93	80.60	7.8	4.86	.04	.00	8.29	.56
70	6.80	33.08	25.96	80.80	7.9	4.86	.08	.56	8.15	.59
71	6.88	33.12	25.98	80.90	7.9	4.90				



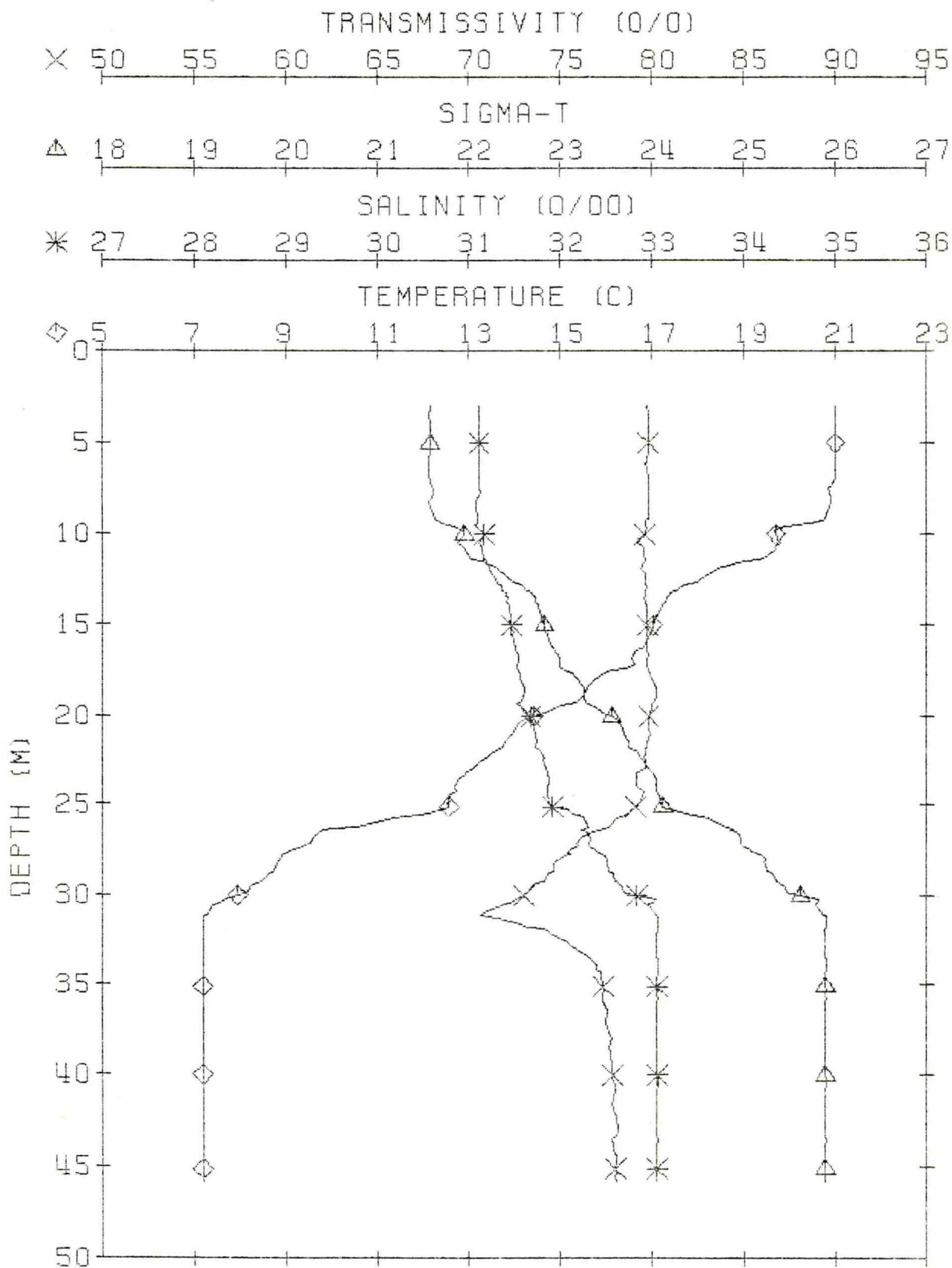
KELEZ CRUISE XWCC-10 STATION 38 JULY 1, 1976



XWCC-10 STA. 68 LAT 40 19.0N; LONG 72 46.5W GMT 10.9 07/01/76  
 DEPTH 50 AIR D/W 22.3/21.1 BARO 09.0 VIS 6 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 21/06 SEA DIR/HT 00/0 SWELL DIR/HT 18/3

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	20.98	31.11	21.57	79.70	8.0	5.41	.03	.00	2.81	.04
2	20.98	31.11	21.57	79.70	8.0	5.41				
3	20.98	31.11	21.57	79.70	8.0	5.41				
4	20.98	31.11	21.57	79.80	8.0	5.33				
5	20.98	31.11	21.57	79.80	8.0	5.38				
6	20.98	31.11	21.57	79.70	8.0	5.33				
7	20.96	31.10	21.57	79.80	8.0	5.39				
8	20.88	31.09	21.58	79.80	8.0	5.38				
9	20.77	31.09	21.61	79.80	8.0	5.41				
10	19.68	31.16	21.94	79.60	8.1	5.60	.02	.00	2.62	.02
11	19.56	31.14	21.96	79.60	8.1	5.58				
12	18.35	31.24	22.34	79.50	8.1	5.73				
13	17.58	31.36	22.61	79.70	8.1	5.83				
14	17.20	31.44	22.76	79.70	8.1	5.88				
15	17.03	31.46	22.82	79.70	8.1	5.87				
16	16.85	31.50	22.89	79.70	8.1	5.87				
17	16.59	31.53	22.98	79.70	8.1	5.92				
18	15.75	31.57	23.19	80.00	8.2	6.10				
19	15.45	31.58	23.26	80.10	8.2	6.18				
20	14.41	31.66	23.55	79.80	8.2	6.39	.06	.00	.11	.08
21	13.94	31.72	23.69	79.80	8.2	6.65				
22	13.53	31.79	23.83	79.60	8.2	6.72				
23	13.00	31.86	23.98	79.40	8.2	6.84				
24	12.70	31.86	24.04	79.30	8.2	7.11				
25	12.55	31.90	24.10	79.20	8.2	7.46				
26	10.86	32.29	24.71	77.80	8.1	7.98				
27	9.53	32.32	24.96	75.90	8.0	8.12				
28	8.85	32.51	25.21	74.90	7.9	7.74				
29	8.53	32.58	25.32	74.20	7.9	7.60				
30	7.94	32.83	25.61	73.00	7.7	7.26	.03	.00	7.17	.50
31	7.27	33.02	25.85	70.80	7.4	6.45				
32	7.18	33.05	25.88	74.30	7.4	5.53				
33	7.17	33.05	25.88	75.80	7.4	4.81				
34	7.17	33.05	25.88	77.00	7.4	4.11				
35	7.17	33.05	25.88	77.30	7.4	3.52				
36	7.17	33.05	25.88	77.30	7.4	3.29				
37	7.17	33.05	25.88	77.50	7.4	3.15				
38	7.17	33.04	25.88	77.70	7.4	3.04				
39	7.17	33.04	25.88	77.70	7.4	2.97				
40	7.17	33.05	25.88	77.80	7.4	2.87				
41	7.17	33.04	25.88	77.90	7.4	2.87				
42	7.17	33.05	25.88	77.90	7.4	2.84				
43	7.17	33.04	25.88	78.10	7.5	2.82				
44	7.17	33.05	25.88	77.90	7.5	2.82				
45	7.17	33.05	25.88	78.00	7.5	2.81	.06	.00	8.28	.54

KELEZ CRUISE XWCC-10 STATION 68 JULY 1, 1976



XWCC-10 STA. 69 LAT 40 24.8N; LONG 72 55.2W GMT 12.5 07/01/76  
 DEPTH 41 AIR D/W 25.8/23.3 BARO 10.0 VIS 6 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 21/10 SEA DIR/HT 00/0 SWELL DIR/HT 18/3

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.38	31.14	21.48	79.50	8.0	5.35	.07	.00	1.11	.09
2	21.38	31.14	21.48	79.50	8.0	5.35				
3	21.38	31.14	21.48	79.60	8.0	5.34				
4	21.39	31.13	21.48	79.40	8.0	5.32				
5	21.39	31.13	21.47	79.70	8.0	5.36				
6	21.38	31.13	21.48	79.70	8.0	5.32				
7	21.36	31.13	21.48	79.50	8.0	5.30				
8	21.36	31.13	21.48	79.50	8.0	5.35				
9	21.36	31.12	21.48	79.60	8.0	5.33				
10	21.38	31.17	21.51	79.70	8.0	5.37	.07	.00	2.23	.09
11	21.34	31.26	21.59	79.90	8.0	5.40				
12	21.09	31.24	21.63	79.80	8.0	5.41				
13	19.78	31.30	22.02	79.30	8.0	5.58				
14	18.55	31.28	22.32	78.90	8.1	5.78				
15	17.01	31.23	22.65	78.40	8.1	5.91				
16	15.28	31.35	23.12	78.40	8.1	6.32				
17	13.94	31.49	23.52	79.10	8.1	6.55				
18	13.71	31.50	23.56	79.30	8.1	6.77				
19	13.29	31.55	23.69	79.40	8.2	6.94				
20	12.76	31.57	23.81	79.50	8.2	7.09	.08	.00	.52	.10
21	12.12	31.72	24.05	79.70	8.2	7.34				
22	11.35	31.73	24.19	79.70	8.2	7.57				
23	10.64	31.80	24.37	79.50	8.1	7.92				
24	10.04	31.76	24.44	78.90	8.1	8.10				
25	9.19	31.95	24.73	77.10	8.0	8.04				
26	8.26	32.12	25.00	76.60	7.8	7.89				
27	7.98	32.20	25.10	75.00	7.7	7.53				
28	7.64	32.30	25.23	74.20	7.6	6.92				
29	7.36	32.46	25.39	75.10	7.4	6.19				
30	7.06	32.69	25.62	77.40	7.3	5.36	.01	.00	7.33	.37
31	7.05	32.70	25.62	79.40	7.3	4.72				
32	7.05	32.70	25.62	79.60	7.3	3.94				
33	7.06	32.70	25.62	79.70	7.3	3.74				
34	7.06	32.68	25.61	79.60	7.3	3.47				
35	7.06	32.69	25.61	79.80	7.3	3.30				
36	7.05	32.68	25.61	79.70	7.3	3.20				
37	7.04	32.70	25.63	79.80	7.3	3.07				
38	7.04	32.70	25.63	79.80	7.4	3.08				
39	7.04	32.70	25.63	79.90	7.4	3.00				
40	7.04	32.70	25.62	80.00	7.4	3.01	.03	.00	13.12	.51
41	7.04	32.70	25.62	79.90	7.4	2.94				

KELEZ CRUISE XWCC-10 STATION 69 JULY 1, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

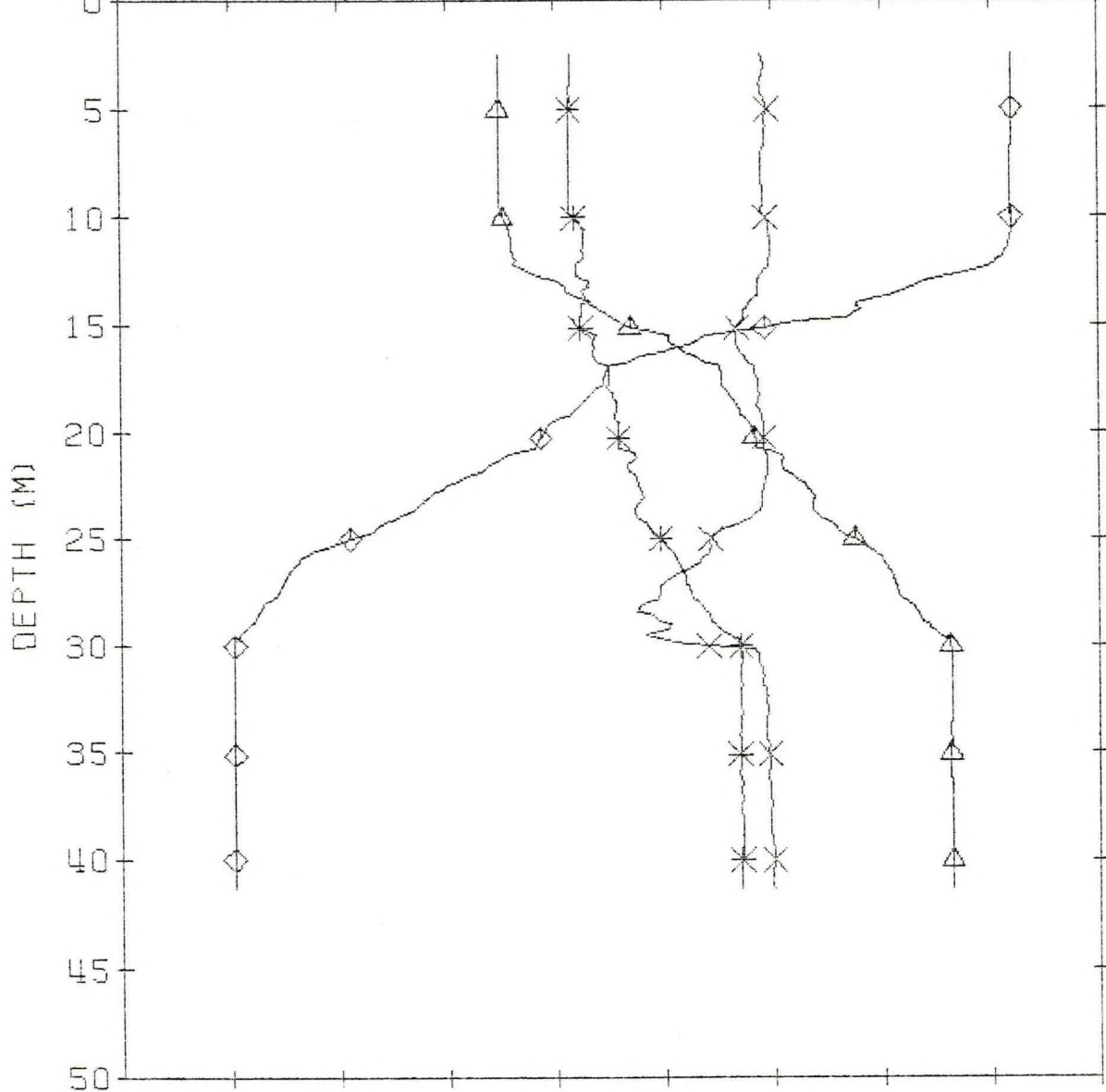
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

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TEMPERATURE (C)

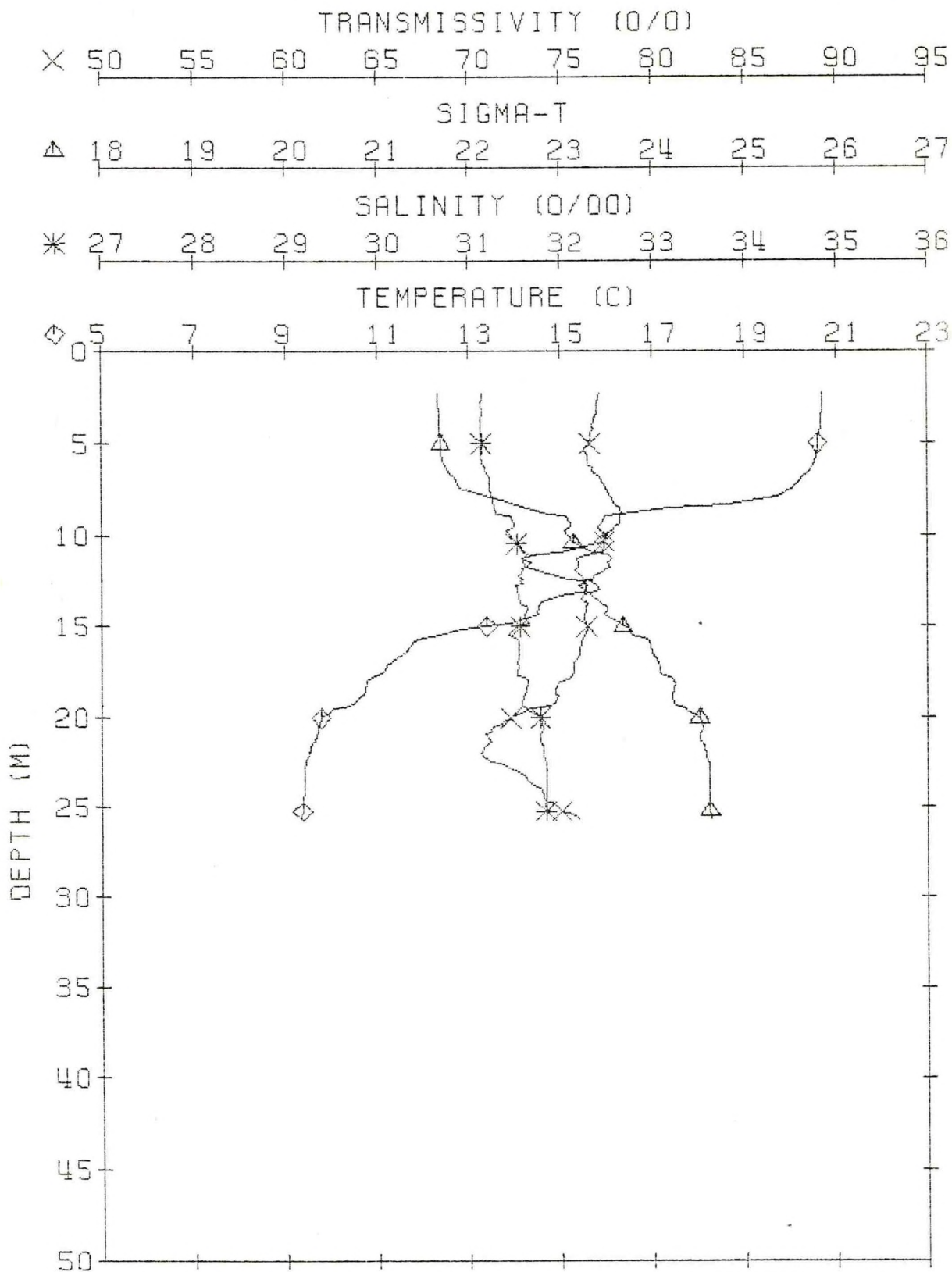
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XWCC-10 STA. 70 LAT 40 32.2N; LONG 73 7.1W GMT 14.3 07/01/76  
 DEPTH 28 AIR D/W 25.0/22.5 BARO 10.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 0 WIND DIR/SPD 27/08 SEA DIR/HT 00/0 SWELL DIR/HT 21/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.70	31.13	21.66	77.10	7.9	5.28	.07	.00	1.15	.14
2	20.70	31.13	21.66	77.10	7.9	5.28				
3	20.69	31.13	21.66	77.00	7.9	5.26				
4	20.66	31.13	21.67	76.70	7.9	5.24				
5	20.58	31.13	21.69	76.50	7.9	5.23				
6	20.51	31.15	21.72	76.50	7.9	5.26				
7	20.20	31.22	21.86	77.20	8.0	5.27				
8	19.44	31.25	22.08	77.80	8.0	5.35				
9	15.97	31.46	23.06	78.20	8.1	5.77				
10	15.93	31.46	23.06	77.50	8.1	6.14	.00	.00	1.53	.14
11	14.62	31.62	23.47	76.70	8.1	6.41				
12	14.63	31.58	23.44	75.90	8.2	6.85				
13	15.53	31.53	23.21	76.90	8.1	6.85				
14	14.51	31.63	23.50	76.40	8.2	7.01				
15	13.29	31.55	23.69	76.40	8.2	7.23				
16	11.73	31.54	23.97	76.10	8.1	7.58				
17	11.26	31.54	24.06	75.80	8.1	7.91				
18	10.77	31.64	24.22	75.20	8.1	8.18				
19	10.54	31.58	24.22	74.70	8.0	8.07				
20	9.78	31.76	24.48	72.30	7.9	7.98	.03	.00	6.47	.42
21	9.65	31.77	24.51	71.00	7.8	7.55				
22	9.47	31.81	24.57	70.70	7.7	7.13				
23	9.39	31.85	24.61	72.70	7.7	6.49				
24	9.37	31.84	24.61	73.90	7.7	6.04				
25	9.34	31.83	24.61	74.80	7.7	5.84	.00	.00	9.79	.45

KELEZ CRUISE XWCC-10 STATION 70 JULY 1, 1976

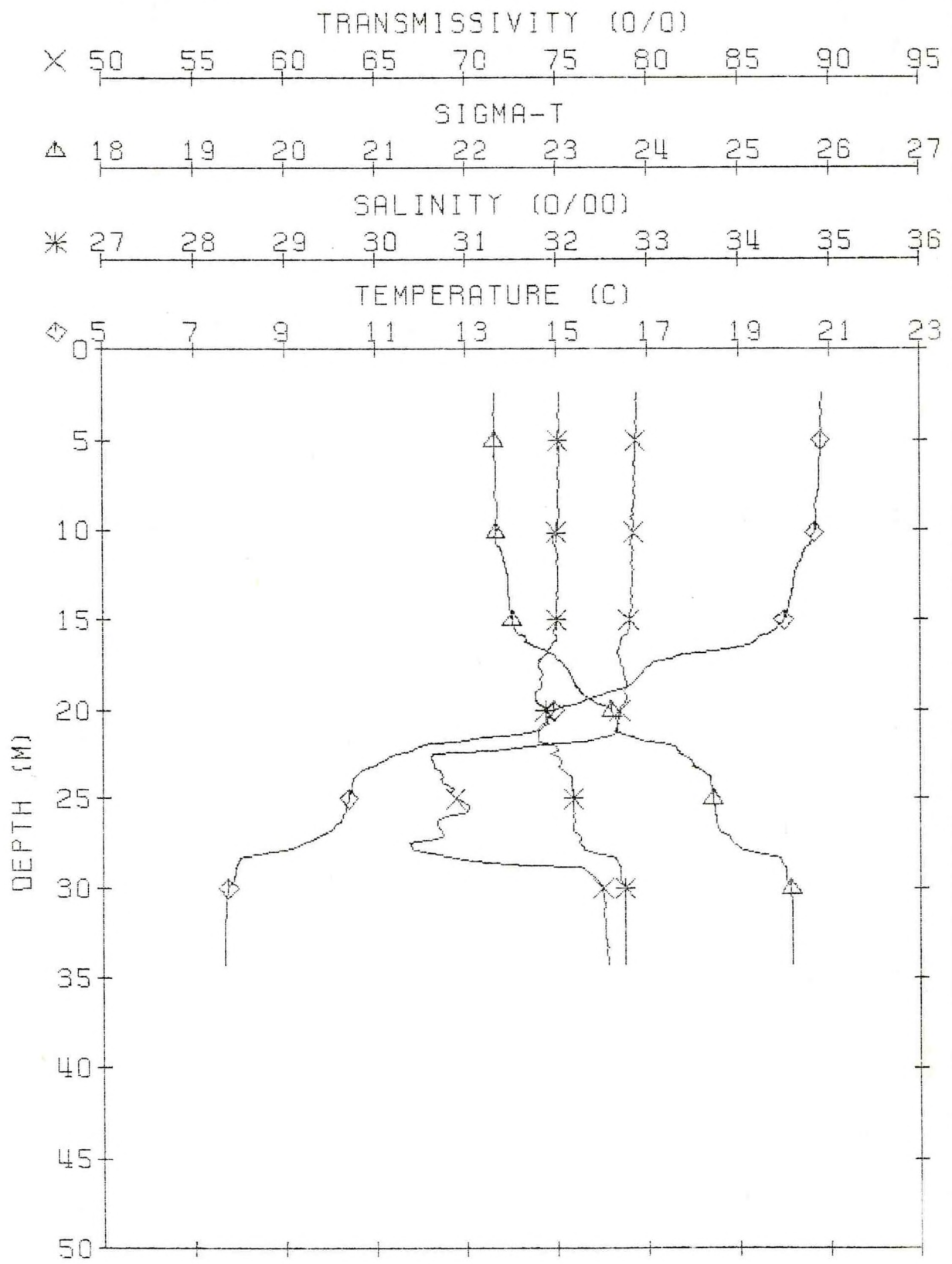


XWCC-10 STA. 77 LAT 40 10.5N; LONG 73 33.9W GMT 15.5 06/29/76  
 DEPTH 37 AIR D/W . / . BARO 13.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 20/12 SEA DIR/HT / SWELL DIR/HT /

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	20.82	32.03	22.31	79.40	7.9	5.35	.00	.16	2.58	.13
2	20.82	32.03	22.31	79.40	7.9	5.35				
3	20.80	32.02	22.31	79.40	7.9	5.35				
4	20.78	32.02	22.31	79.30	8.0	5.35				
5	20.78	32.01	22.31	79.30	8.0	5.36				
6	20.76	32.02	22.32	79.30	8.0	5.37				
7	20.74	32.02	22.32	79.20	8.0	5.37				
8	20.72	32.00	22.31	79.20	8.0	5.36				
9	20.67	32.02	22.34	79.20	8.0	5.38				
10	20.66	32.01	22.33	79.20	8.0	5.38	.00	.00	2.86	.10
11	20.47	31.98	22.37	79.10	8.0	5.38				
12	20.27	32.00	22.43	79.10	8.0	5.42				
13	20.19	32.01	22.46	79.10	8.0	5.41				
14	20.10	32.00	22.47	79.00	8.0	5.39				
15	19.97	31.99	22.50	78.90	8.0	5.39				
16	19.40	31.99	22.65	78.60	8.0	5.41				
17	17.62	31.85	22.98	78.40	8.1	5.57				
18	16.83	31.83	23.15	78.70	8.2	5.64				
19	16.10	31.76	23.26	78.70	8.2	5.87				
20	14.94	31.87	23.60	78.40	8.2	6.22	.02	.16	.52	.09
21	14.56	31.82	23.64	78.30	8.2	6.48				
22	11.96	31.97	24.27	73.40	8.2	7.02				
23	11.01	32.03	24.48	68.20	8.1	7.37				
24	10.47	32.16	24.68	68.60	7.9	7.49				
25	10.39	32.17	24.70	69.50	7.8	7.05				
26	10.24	32.18	24.74	68.90	7.7	6.44				
27	9.84	32.23	24.84	68.60	7.6	5.93				
28	8.68	32.37	25.13	67.60	7.5	5.21				
29	7.88	32.69	25.50	76.60		4.71				
30	7.73	32.74	25.56	77.50		3.77				
31	7.68	32.75	25.57	77.60		3.13				
32	7.66	32.74	25.57	77.60		2.63				
33	7.65	32.75	25.58	77.70	7.7	2.12	.03	.00	11.51	.45
34	7.65	32.75	25.58	77.80		1.61				



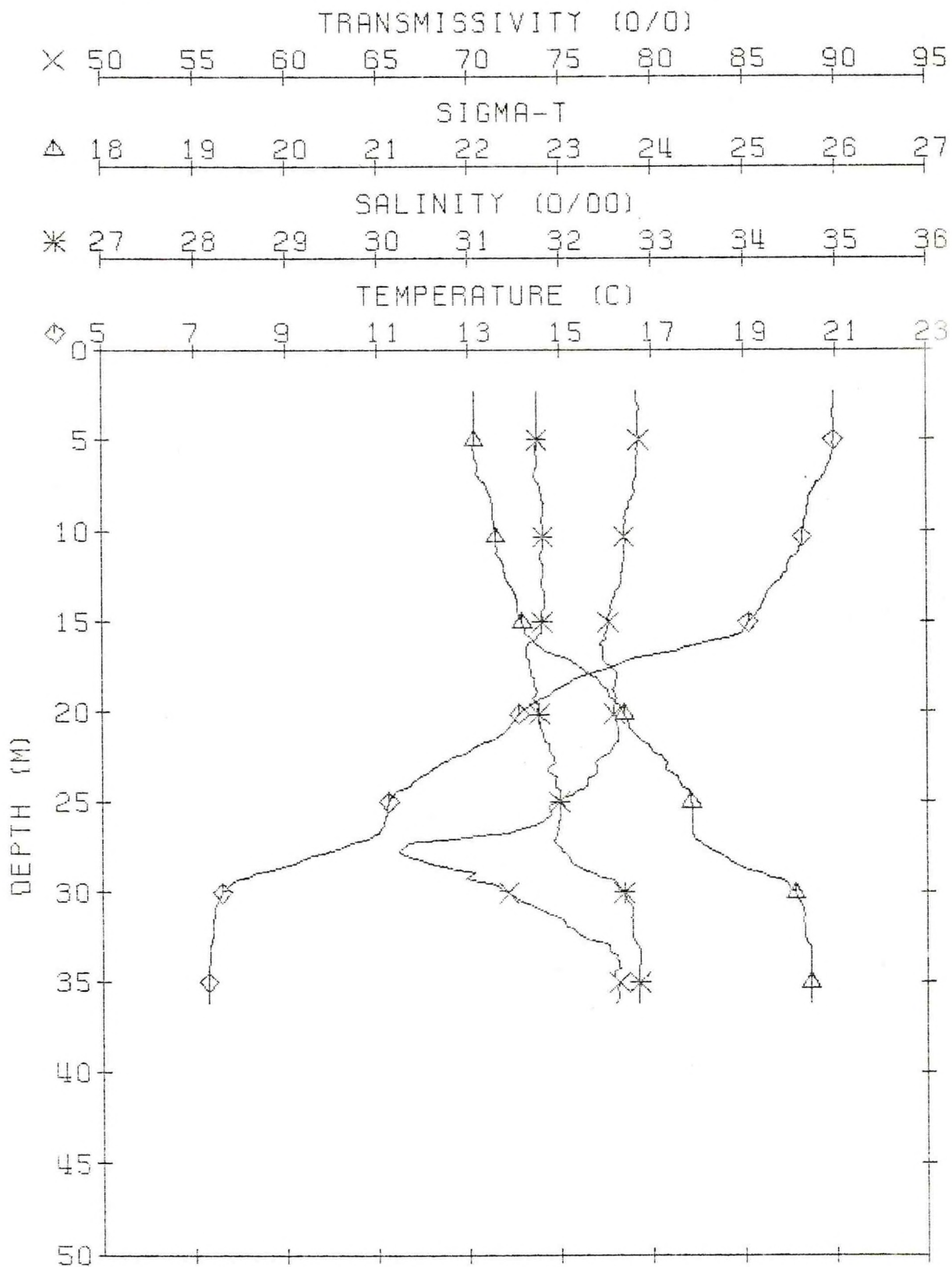
KELEZ CRUISE XWCC-10 STATION 77 JUNE 29, 1976



XWCC-10 STA. 78 LAT 40 5.0N; LONG 73 21.0W GMT 22.8 06/29/76  
 DEPTH 44 AIR D/W 22.2/21.4 BARO 10.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 19/18 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.95	31.74	22.05	79.10	8.0	5.40	.06	.00	1.66	.14
2	20.95	31.74	22.05	79.10	8.0	5.40				
3	20.94	31.74	22.06	79.20	8.0	5.41				
4	20.95	31.74	22.05	79.20	8.0	5.42				
5	20.94	31.74	22.06	79.20	8.0	5.38				
6	20.88	31.74	22.07	79.20	8.0	5.41				
7	20.71	31.72	22.10	79.10	8.0	5.45				
8	20.42	31.79	22.23	79.00	8.0	5.41				
9	20.34	31.80	22.26	78.50	8.0	5.44				
10	20.26	31.81	22.29	78.50	8.0	5.44	.09	.40	1.69	.12
11	20.17	31.79	22.30	78.50	8.0	5.42				
12	19.92	31.80	22.37	78.40	8.0	5.44				
13	19.60	31.80	22.45	78.20	8.0	5.45				
14	19.37	31.82	22.53	77.70	8.0	5.44				
15	19.08	31.80	22.58	77.60	8.0	5.39				
16	18.39	31.71	22.69	77.40	8.0	5.40				
17	16.68	31.63	23.03	77.30	8.1	5.56				
18	15.47	31.69	23.35	78.10	8.1	5.69				
19	14.76	31.72	23.52	78.00	8.1	5.93				
20	14.13	31.76	23.68	77.90	8.2	6.08	.11	.11	1.76	.14
21	13.80	31.79	23.77	78.10	8.2	6.24				
22	13.08	31.87	23.98	77.80	8.2	6.51				
23	12.30	31.89	24.15	76.90	8.2	6.90				
24	11.71	31.94	24.29	76.40	8.2	7.35				
25	11.23	31.99	24.42	74.80	8.2	7.70				
26	11.13	31.98	24.43	74.10	8.2	7.86				
27	10.81	31.94	24.45	69.50	8.1	7.99				
28	9.62	32.06	24.75	66.60	7.9	8.18				
29	8.25	32.38	25.20	70.10	7.6	8.15				
30	7.60	32.68	25.53	72.00	7.4	7.54	.11	.04	7.29	.46
31	7.43	32.78	25.63	74.00		6.76				
32	7.38	32.78	25.64	75.50		5.87				
33	7.31	32.84	25.70	77.60		4.85				
34	7.30	32.84	25.70	78.10		4.28				
35	7.29	32.85	25.71	78.10	7.8	3.76	.07	.10	11.90	.56
36	7.28	32.84	25.70	78.00		3.59				

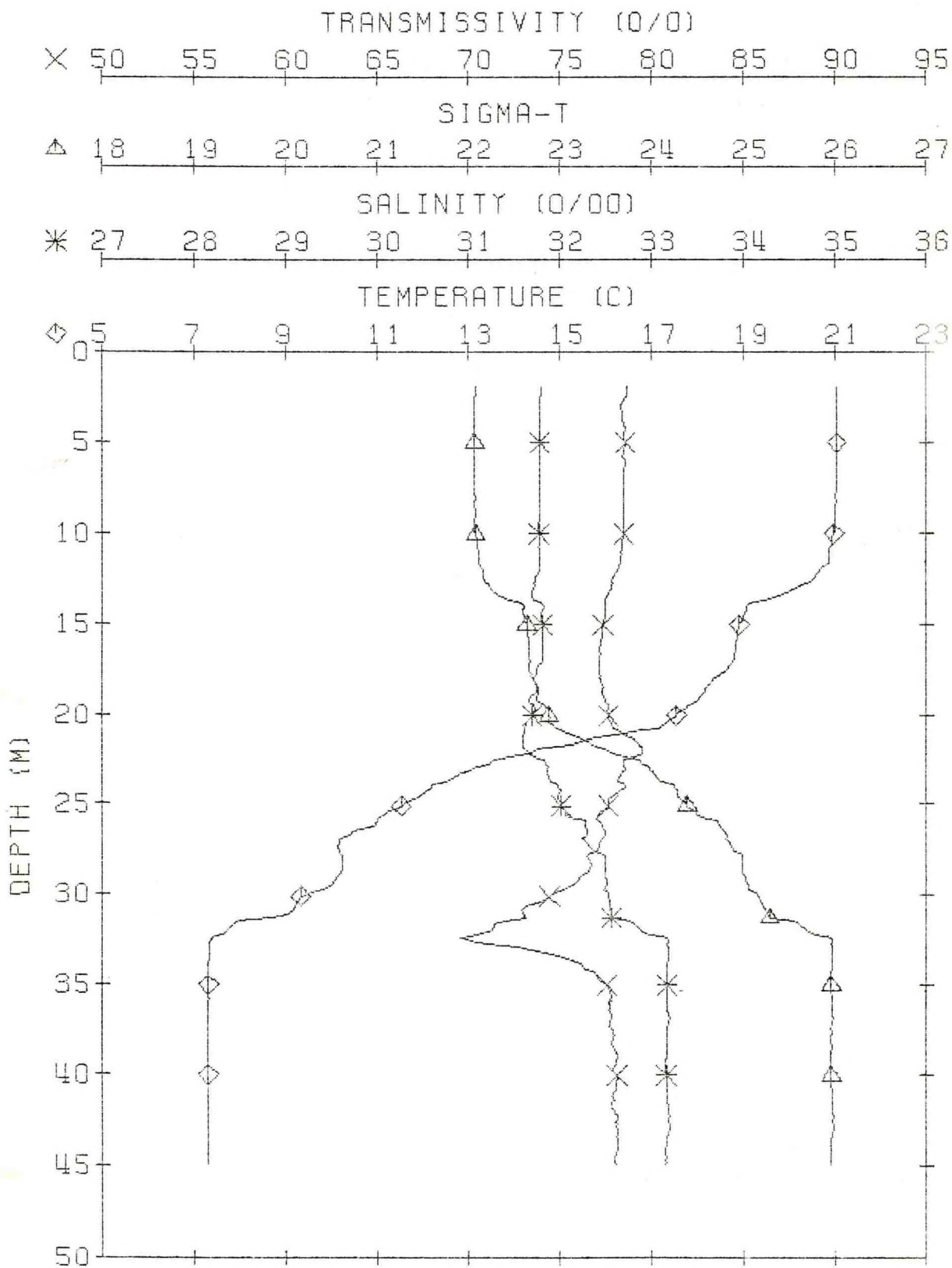
KELEZ CRUISE XWCC-10 STATION 78 JUNE 29, 1976



XWCC-10 STA. 79 LAT 40 .2N; LONG 73 9.3W GMT 00.5 06/30/76  
 DEPTH 47 AIR D/W 22.8/21.7 BARO 11.0 VIS 6 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 18/20 SEA DIR/HT 00/0 SWELL DIR/HT 19/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.02	31.78	22.07	78.60	8.0	5.60	.00	.05	3.22	.12
2	21.02	31.78	22.07	78.60	8.0	5.58				
3	21.02	31.77	22.06	78.30	7.9	5.32				
4	21.01	31.78	22.07	78.50	8.0	5.41				
5	21.02	31.77	22.06	78.50	8.0	5.37				
6	21.02	31.77	22.06	78.50	8.0	5.35				
7	21.02	31.77	22.06	78.50	8.0	5.37				
8	21.00	31.78	22.07	78.50	8.0	5.36				
9	20.99	31.78	22.07	78.50	8.0	5.35				
10	20.96	31.77	22.07	78.50	8.0	5.38	.00	.03	3.29	.09
11	20.86	31.77	22.10	78.30	8.0	5.36				
12	20.65	31.77	22.15	78.10	8.0	5.32				
13	20.12	31.71	22.25	77.80	8.0	5.41				
14	19.06	31.81	22.60	77.40	8.0	5.53				
15	18.90	31.80	22.63	77.30	8.0	5.36				
16	18.82	31.81	22.65	77.20	8.0	5.37				
17	18.74	31.80	22.67	77.10	8.0	5.33				
18	18.33	31.72	22.70	77.20	8.0	5.35				
19	18.02	31.67	22.74	77.40	8.0	5.34				
20	17.52	31.69	22.88	77.60	8.1	5.35	.07	.00	1.13	.12
21	16.33	31.60	23.08	78.40	8.2	5.53				
22	14.43	31.64	23.53	79.40	8.2	6.05				
23	13.09	31.87	23.97	78.50	8.3	6.60				
24	12.20	31.98	24.23	78.50	8.2	7.41				
25	11.56	32.00	24.37	77.60	8.3	7.97				
26	10.95	32.28	24.69	77.20	8.1	8.20				
27	10.16	32.27	24.82	77.20	8.1	8.16				
28	10.22	32.49	24.98	76.50	8.0	8.11				
29	10.11	32.49	25.00	76.10	8.0	7.99				
30	9.43	32.53	25.14	74.50	8.0	7.92	.05	.37	.58	.36
31	9.09	32.55	25.21	73.00	7.8	7.49				
32	7.71	32.89	25.69	71.00	7.5	7.44				
33	7.31	33.17	25.96	73.10	7.3	6.58				
34	7.30	33.16	25.95	76.30	7.3	6.03				
35	7.29	33.16	25.95	77.50	7.3	5.14				
36	7.30	33.16	25.95	77.70	7.3	4.49				
37	7.30	33.18	25.97	77.70	7.3	3.97				
38	7.30	33.16	25.95	77.80	7.3	3.75				
39	7.30	33.15	25.94	78.10	7.3	3.51				
40	7.30	33.15	25.94	78.00	7.3	3.30	.08	.02	5.29	.40
41	7.30	33.17	25.96	77.90	7.3	3.14				
42	7.30	33.17	25.96	77.90	7.3	3.06				
43	7.30	33.18	25.97	78.10	7.4	3.01				
44	7.30	33.15	25.94	78.10	7.4	2.89				

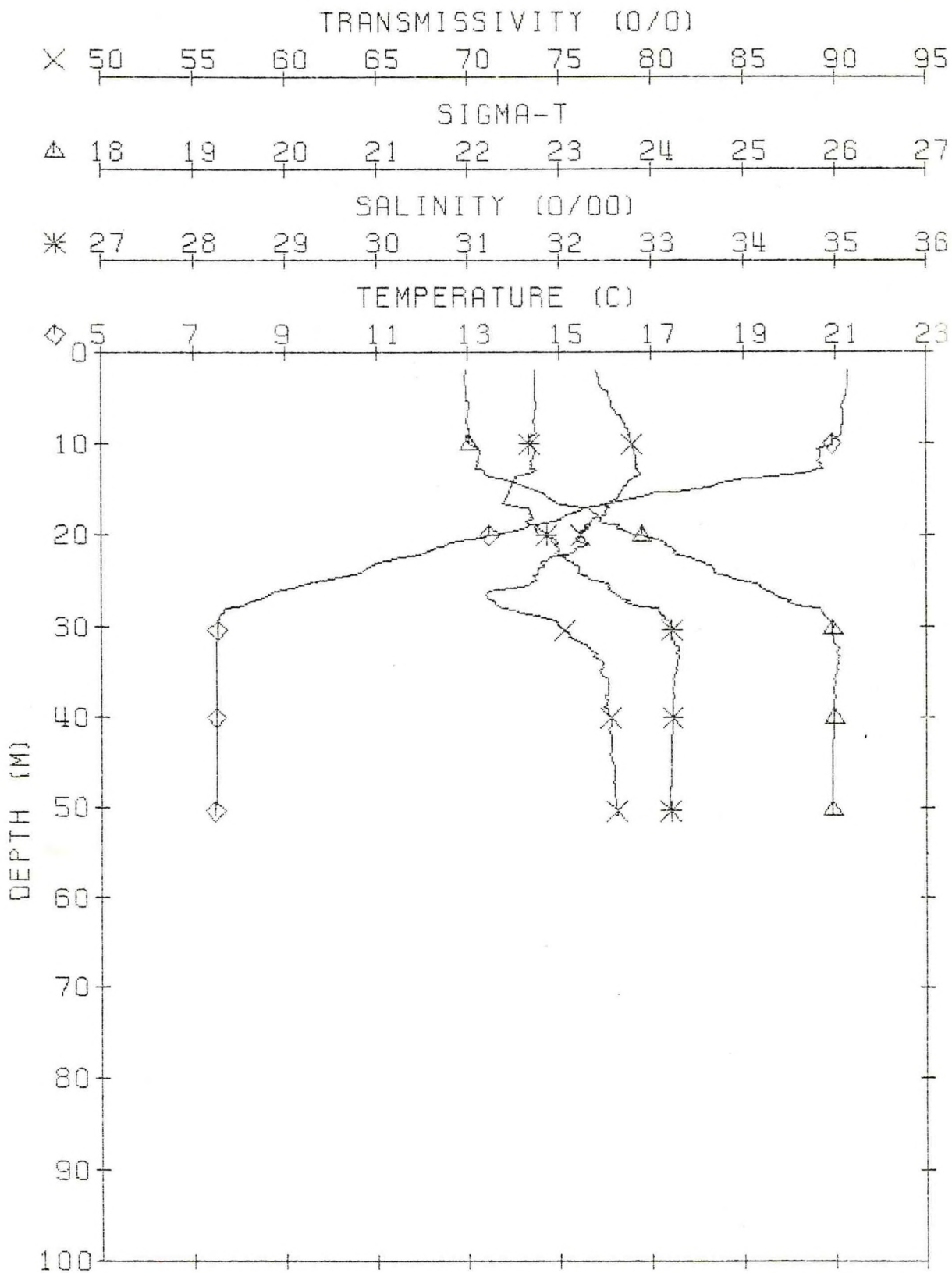
KELEZ CRUISE XWCC-10 STATION 79 JUNE 30, 1976



XWCC-10 STA. 80 LAT 39 55.0N; LONG 72 56.8W GMT 19.8 06/30/76  
 DEPTH 51 AIR D/W 22.5/21.7 BARO 09.5 VIS 6 CLD TYP/CVR X/4  
 WTHR 4 WIND DIR/SPD 18/16 SEA DIR/HT 13/0 SWELL DIR/HT 17/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.25	31.73	21.97	77.00	7.9	5.47				
2	21.25	31.73	21.97	77.00	7.9	5.47	.04	.00	.24	.10
3	21.26	31.73	21.96	77.10	7.9	5.44				
4	21.23	31.73	21.97	77.30	8.0	5.45				
5	21.20	31.72	21.97	77.70	8.0	5.49				
6	21.12	31.74	22.00	77.90	8.0	5.50				
7	21.16	31.72	21.98	78.30	8.0	5.56				
8	21.13	31.72	21.99	78.60	8.0	5.53				
9	21.11	31.70	21.98	78.80	8.0	5.55				
10	20.91	31.67	22.01	78.90	8.0	5.60	.08	.19	.90	.09
11	20.64	31.72	22.12	79.10	8.0	5.56				
12	20.61	31.68	22.10	79.10	8.0	5.60				
13	20.51	31.72	22.16	79.30	8.0	5.55				
14	18.84	31.50	22.42	78.90	8.1	5.71				
15	17.82	31.45	22.62	78.40	8.1	5.91				
16	16.58	31.40	22.88	78.10	8.2	6.10				
17	15.53	31.64	23.29	77.60	8.2	6.48				
18	15.07	31.69	23.43	77.00	8.2	6.66				
19	14.30	31.74	23.63	76.40	8.2	6.87				
20	13.49	31.83	23.87	76.10	8.2	7.13	.11	.00	.21	.17
21	12.55	31.99	24.15	76.50	8.2	7.38				
22	12.02	32.14	24.25	75.60	8.2	7.55				
23	11.02	32.22	24.57	74.00	8.1	7.80				
24	10.67	32.20	24.67	73.80	8.1	7.82				
25	9.73	32.40	24.99	73.60	8.0	7.89				
26	8.93	32.54	25.22	71.60	7.9	7.84				
27	8.33	32.71	25.45	71.30	7.6	7.67				
28	7.87	33.00	25.83	72.10	7.3	7.14				
29	7.54	33.15	25.91	74.30	7.3	6.65				
30	7.51	33.22	25.97	75.00	7.3	6.89	.00	.00	10.55	.56
31	7.50	33.22	25.97	75.50	7.3	5.34				
32	7.50	33.25	25.99	76.40	7.3	4.77				
33	7.49	33.27	26.01	77.00	7.4	4.36				
34	7.48	33.28	26.02	77.40	7.4	4.09				
35	7.48	33.27	26.01	77.20	7.4	3.87				
36	7.49	33.24	25.99	77.60	7.4	3.75				
37	7.49	33.23	25.98	77.70	7.3	3.57				
38	7.49	33.23	25.98	77.60	7.3	3.40				
39	7.48	33.22	25.98	77.50	7.3	3.26				
40	7.48	33.23	25.98	77.80	7.3	3.14	.08	.00	5.14	.26
41	7.48	33.22	25.97	77.70	7.3	3.09				
42	7.48	33.21	25.97	77.80	7.3	3.01				
43	7.48	33.22	25.96	77.80	7.3	2.90				
44	7.48	33.21	25.96	77.70	7.3	2.83				
45	7.48	33.20	25.96	77.90	7.3	2.82				
46	7.48	33.21	25.96	77.90	7.3	2.75				
47	7.48	33.22	25.96	77.90	7.3	2.73				
48	7.48	33.20	25.96	77.90	7.3	2.70				
49	7.47	33.19	25.95	78.00	7.3	2.68				
50	7.47	33.20	25.96	78.10	7.3	2.65	.05	.00	6.65	.33

KELEZ CRUISE XWCC-10 STATION 80 JUNE 30, 1976

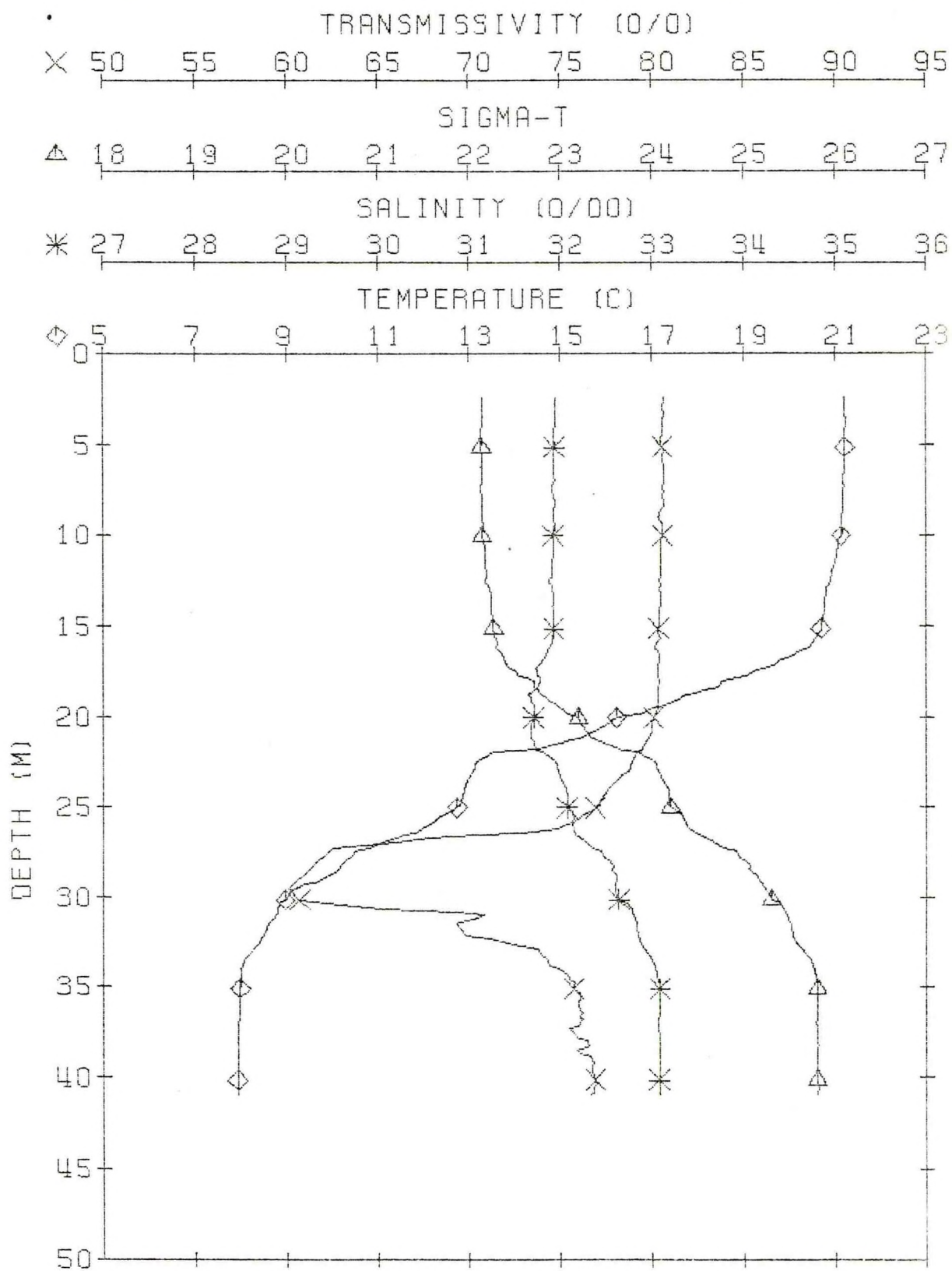


XWCC-10 STA. 81 LAT 39 44.6N; LONG 73 10.2W GMT 16.3 06/30/76  
 DEPTH 44 AIR D/W 23.9/22.2 BARO 10.5 VIS 6 CLD TYP/CVR X/4  
 WETHR 4 WIND DIR/SPD 17/14 SEA DIR/HT 18/0 SWELL DIR/HT 17/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	21.19	31.94	22.14	80.60	8.0	5.42	.03	.00	.93	.01
2	21.19	31.94	22.14	80.60	8.0	5.42				
3	21.19	31.94	22.14	80.60	8.0	5.41				
4	21.20	31.93	22.13	80.50	8.0	5.40				
5	21.19	31.93	22.13	80.50	8.0	5.40				
6	21.18	31.93	22.14	80.60	8.0	5.40				
7	21.16	31.93	22.14	80.60	8.0	5.41				
8	21.15	31.93	22.15	80.60	8.0	5.43				
9	21.13	31.93	22.15	80.40	8.0	5.44				
10	21.11	31.92	22.14	80.50	8.0	5.43	.11	.00	.00	.12
11	21.01	31.92	22.17	80.50	8.0	5.45				
12	20.92	31.91	22.19	80.40	8.0	5.44				
13	20.79	31.92	22.23	80.40	8.0	5.47				
14	20.75	31.92	22.24	80.40	8.0	5.51				
15	20.68	31.93	22.27	80.40	8.1	5.51				
16	20.45	31.89	22.30	80.20	8.1	5.52				
17	19.69	31.77	22.41	80.30	8.1	5.69				
18	18.56	31.77	22.69	80.40	8.1	5.80				
19	17.54	31.68	22.86	80.30	8.1	5.95				
20	16.30	31.70	23.17	80.10	8.2	6.11				
21	15.48	31.67	23.33	79.80	8.2	6.22				
22	13.45	31.83	23.88	79.10	8.2	6.57				
23	13.05	31.98	24.07	78.60	8.2	6.97				
24	12.88	32.06	24.17	77.60	8.2	7.24				
25	12.72	32.07	24.20	76.90	8.3	7.47				
26	12.03	32.13	24.38	75.10	8.3	7.75				
27	10.99	32.29	24.70	64.80	8.2	8.07				
28	10.25	32.54	25.01	61.60	8.1	8.39				
29	9.71	32.60	25.15	60.60	7.9	8.23				
30	8.98	32.62	25.28	60.60	7.4	7.93	.11	.00	4.32	1.15
31	8.74	32.79	25.45	70.30	7.4	6.93				
32	8.51	32.83	25.52	69.70		5.89				
33	8.21	32.93	25.64	73.80		5.08				
34	8.00	33.03	25.75	74.90		4.36				
35	7.97	33.08	25.79	75.70		3.53				
36	7.96	33.07	25.79	76.00		3.09				
37	7.93	33.06	25.78	76.10		2.73				
38	7.92	33.07	25.79	76.40		2.59				
39	7.91	33.08	25.80	76.70		2.33				
40	7.91	33.07	25.79	76.80	7.6	2.24	.09	.00	7.58	.32



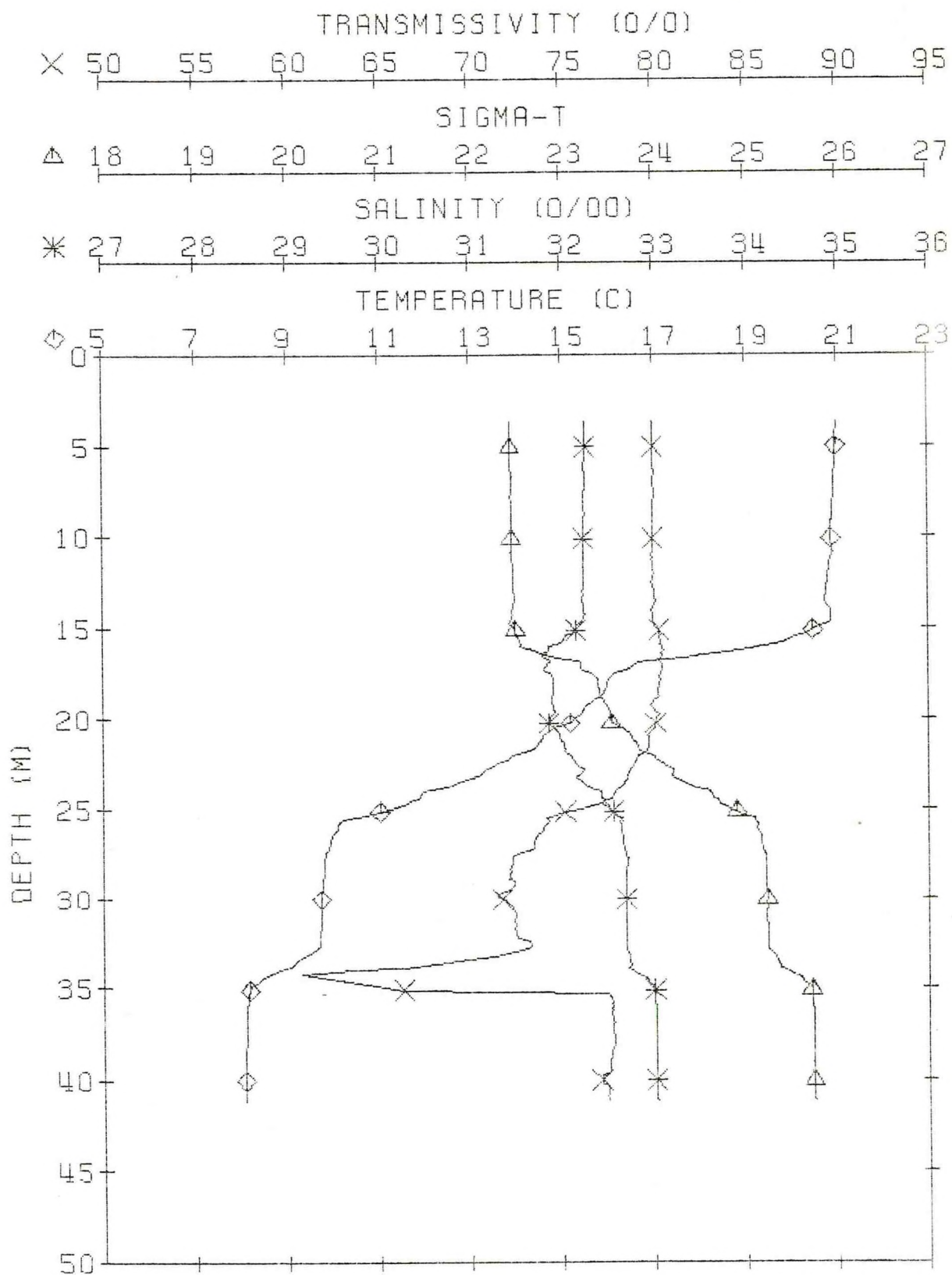
KELEZ CRUISE XWCC-10 STATION 81 JUNE 30, 1976



XWCC-10 STA. 82 LAT 39 50.4N; LONG 73 20.5W GMT 14.7 06/30/76  
 DEPTH 44 AIR D/W 22.2/21.7 BARO 10.5 VIS 6 CLD TYP/CVR X/4  
 WETHR 4 WIND DIR/SPD 16/12 SEA DIR/HT 00/0 SWELL DIR/HT 19/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.98	32.26	22.44	80.00	7.9	5.36	.04	.00	2.40	.08
2	20.98	32.26	22.44	80.00	7.9	5.36				
3	20.98	32.26	22.44	80.00	7.9	5.36				
4	20.97	32.26	22.44	80.00	7.9	5.28				
5	20.96	32.26	22.44	80.00	7.9	5.37				
6	20.95	32.25	22.44	80.00	7.9	5.29				
7	20.91	32.26	22.45	80.00	7.9	5.32				
8	20.90	32.25	22.45	80.00	7.9	5.34				
9	20.87	32.25	22.46	79.90	7.9	5.37				
10	20.86	32.24	22.46	80.00	7.9	5.37	.09	.15	2.76	.12
11	20.89	32.24	22.45	79.90	7.9	5.30				
12	20.80	32.24	22.47	80.00	7.9	5.34				
13	20.75	32.23	22.48	80.10	7.9	5.32				
14	20.84	32.24	22.46	79.90	7.9	5.30				
15	20.53	32.16	22.48	80.20	8.0	5.36				
16	19.39	31.89	22.57	80.40	8.0	5.49				
17	16.60	31.85	23.21	80.50	8.2	5.80				
18	15.99	31.91	23.40	80.30	8.2	6.10				
19	15.69	31.90	23.46	80.00	8.2	6.21				
20	15.28	31.87	23.53	80.10	8.2	6.31	.09	.00	.00	.08
21	14.59	31.98	23.75	79.70	8.2	6.56				
22	13.94	32.09	23.97	79.20	8.2	6.68				
23	13.24	32.20	24.20	78.60	8.2	7.04				
24	12.02	32.39	24.59	77.90	8.2	7.30				
25	11.17	32.53	24.84	75.80	8.1	7.52				
26	10.07	32.64	25.12	74.00	7.9	7.53				
27	9.89	32.66	25.17	73.50	7.9	7.21				
28	9.80	32.70	25.21	72.30	7.9	6.67				
29	9.75	32.69	25.21	72.30	7.8	6.17				
30	9.72	32.69	25.22	71.70	7.8	5.87				
31	9.71	32.69	25.22	72.50	7.8	5.54				
32	9.70	32.69	25.22	72.50	7.8	5.28				
33	9.50	32.70	25.26	72.30	7.7	5.04				
34	8.82	32.75	25.41	64.00	7.5	4.91				
35	8.16	32.99	25.69	65.70		4.62				
36	8.10	33.00	25.71	77.70		4.05				
37	8.08	33.01	25.72	77.80		3.45				
38	8.07	33.00	25.72	77.80		3.13				
39	8.06	33.01	25.72	77.50		2.66				
40	8.05	33.01	25.72	77.10		2.46				
41	8.04	33.01	25.73	77.40	7.7	2.22	.13	.00	5.79	.28

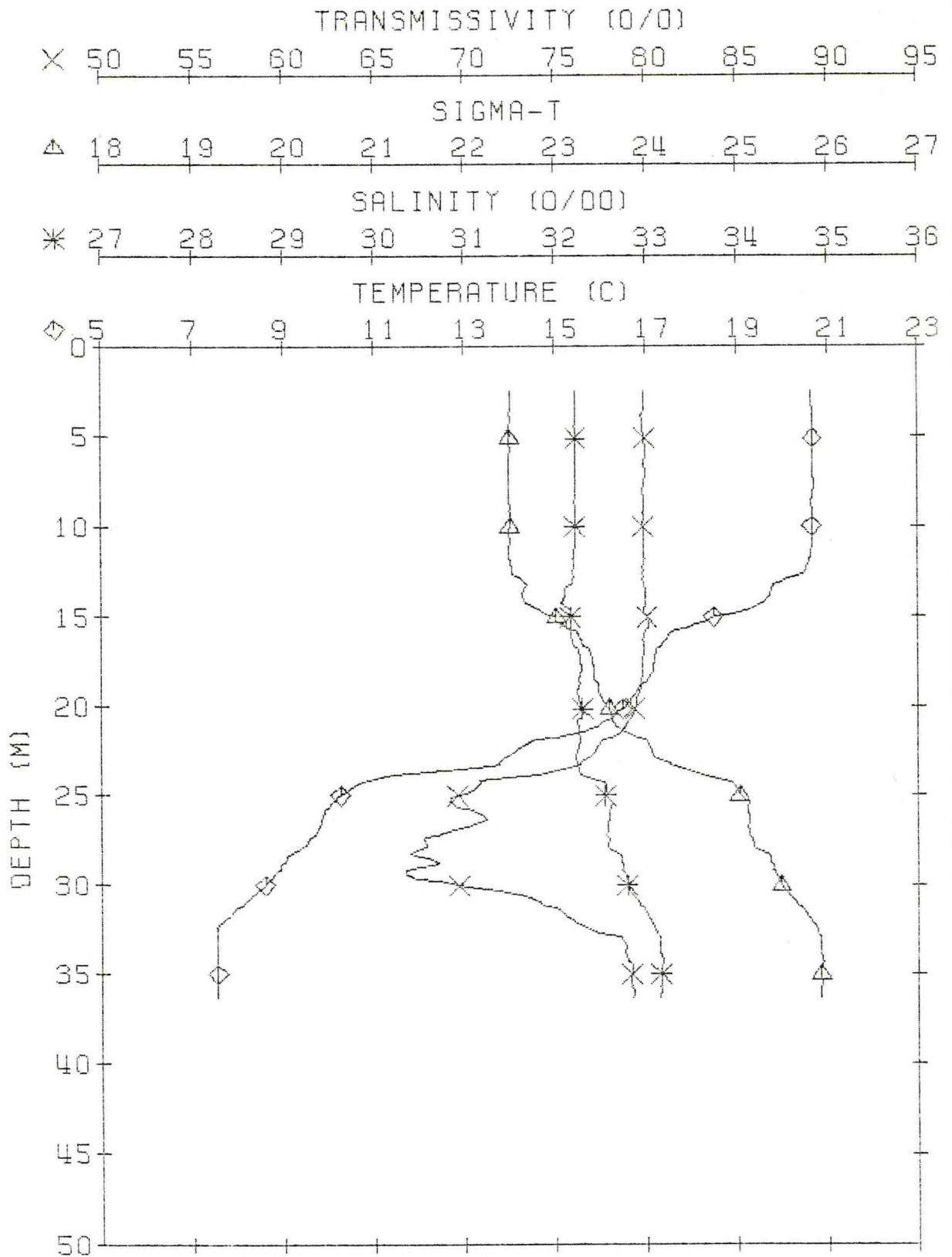
KELEZ CRUISE XWCC-10 STATION 82 JUNE 30, 1976



XWCC-10 STA. 83 LAT 39 56.1N; LONG 73 30.3W GMT 05.5 06/30/76  
 DEPTH 38 AIR D/W 21.4/21.1 BARO 12.0 VIS 7 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 20/15 SEA DIR/HT 00/0 SWELL DIR/HT 20/2

DEP	TEMP	SAL	SIGT	TRAN	PH	02	N02	N03	SI03	P04
1	20.62	32.22	22.50	79.90	7.8	5.22	.06	.00	.89	.19
2	20.62	32.22	22.50	79.90	7.8	5.22				
3	20.61	32.22	22.51	79.90	7.8	5.22				
4	20.65	32.23	22.50	79.80	7.8	5.19				
5	20.64	32.22	22.50	79.90	7.8	5.20				
6	20.66	32.23	22.50	80.00	7.9	5.21				
7	20.66	32.22	22.50	79.90	7.9	5.20				
8	20.66	32.22	22.50	79.80	7.9	5.21				
9	20.64	32.22	22.50	79.90	7.9	5.23				
10	20.64	32.22	22.50	79.80	7.9	5.23	.01	.07	4.11	.16
11	20.65	32.22	22.50	79.90	7.9	5.20				
12	20.57	32.21	22.51	79.90	7.9	5.23				
13	20.00	32.19	22.65	79.90	7.9	5.27				
14	19.64	32.09	22.66	79.90	8.0	5.35				
15	18.56	32.16	22.98	80.00	8.0	5.44				
16	17.50	32.18	23.26	79.90	8.0	5.56				
17	17.21	32.27	23.39	79.90	8.1	5.58				
18	17.13	32.29	23.43	79.80	8.1	5.58				
19	16.82	32.25	23.47	79.60	8.1	5.60				
20	16.51	32.29	23.57	79.40	8.1	5.61	.00	.01	2.13	.20
21	15.96	32.24	23.66	78.90	8.1	5.66				
22	14.40	32.26	24.01	77.50	8.1	5.79				
23	13.81	32.24	24.12	76.60	8.2	6.07				
24	11.09	32.38	24.74	72.20	8.1	6.58				
25	10.23	32.55	25.03	69.60	7.8	6.75				
26	9.87	32.59	25.12	70.80	7.7	6.22				
27	9.72	32.57	25.12	69.10	7.6	5.65				
28	9.34	32.60	25.21	67.50	7.5	4.90				
29	8.91	32.74	25.38	67.50	7.4	4.16				
30	8.56	32.79	25.48	69.90	7.3	3.71	.00	.00	13.43	.65
31	8.15	32.92	25.64	74.10		3.22				
32	7.66	33.04	25.81	76.00		2.65				
33	7.52	33.14	25.91	78.60		2.24				
34	7.53	33.16	25.92	78.90		2.05				
35	7.53	33.15	25.91	79.20	7.4	1.90	.00	.02	17.14	.56
36	7.53	33.15	25.91	79.30		1.50				

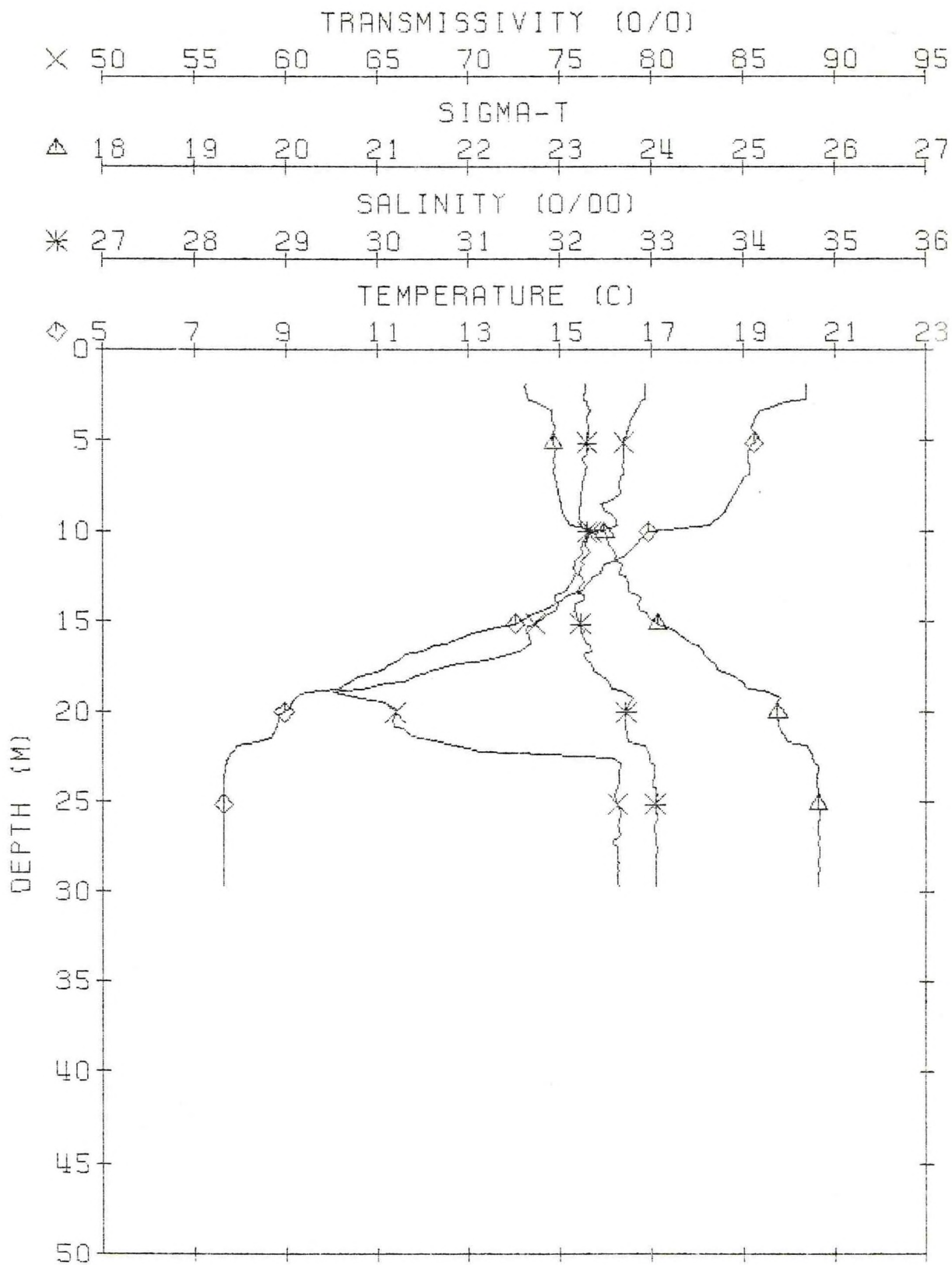
KELEZ CRUISE XWCC-10 STATION 83 JUNE 30, 1976



XWCC-10 STA. 84 LAT 40 2.5N; LONG 73 40.5W GMT 19.3 06/29/76  
 DEPTH 29 AIR D/W 23.6/22.2 BARO 11.5 VIS 4 CLD TYP/CVR X/9  
 WETHR 4 WIND DIR/SPD 20/12 SEA DIR/HT 00/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	20.36	32.28	22.62	79.60	7.8	5.02	.00	.15	4.50	.38
2	20.36	32.27	22.61	79.60	7.8	5.02				
3	19.77	32.30	22.79	79.30	7.8	5.13				
4	19.20	32.30	22.93	78.80	7.8	5.13				
5	19.24	32.29	22.91	78.50	7.8	5.06				
6	19.09	32.25	22.93	78.40	7.8	5.05				
7	19.04	32.26	22.94	78.30	7.8	4.99				
8	18.78	32.23	22.98	78.20	7.8	5.08				
9	18.49	32.22	23.05	77.60	7.8	4.91				
10	17.03	32.29	23.46	76.80	7.8	4.95	.00	.00	6.41	.35
11	16.53	32.31	23.58	76.20	7.8	4.91				
12	15.92	32.23	23.66	75.80	7.9	4.88				
13	15.55	32.22	23.74	75.50	7.9	4.88				
14	14.88	32.18	23.85	74.80	8.0	5.09				
15	14.09	32.21	24.04	73.80	8.0	5.35				
16	12.69	32.27	24.36	73.30	7.9	5.46				
17	11.49	32.29	24.60	71.30	7.8	5.49				
18	10.65	32.44	24.87	67.10	7.6	5.16				
19	9.33	32.73	25.31	63.00	7.4	4.62				
20	8.92	32.72	25.37	65.90	7.3	4.23	.00	.00	13.53	.54
21	8.74	32.72	25.39	66.50		3.66				
22	7.85	32.95	25.71	70.10		2.94				
23	7.64	33.03	25.80	78.30		2.51				
24	7.63	33.01	25.79	78.20		2.22				
25	7.61	33.04	25.81	78.10		1.80				
26	7.61	33.05	25.82	78.20		1.65				
27	7.61	33.04	25.82	78.10		1.50				
28	7.61	33.04	25.82	78.20	7.4	1.38	.00	.00	17.54	.68
29	7.61	33.04	25.81	78.10		1.31				

KELEZ CRUISE XWCC-10 STATION 84 JUNE 29, 1976

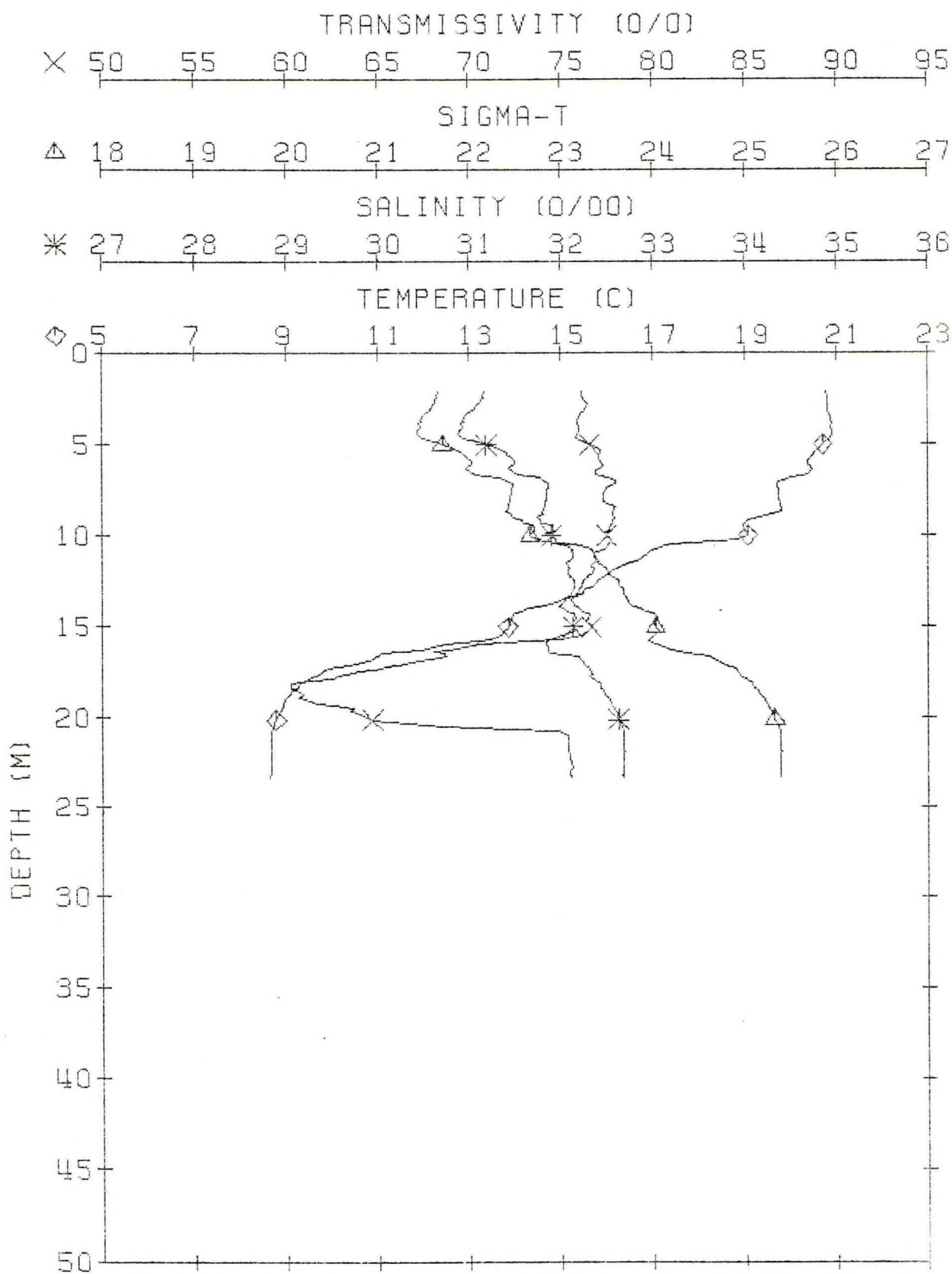


XWCC-10 STA. 85 LAT 40 7.8N; LONG 73 51.4W GMT 03.8 06/29/76  
 DEPTH 26 AIR D/W 22.8/20.0 BARO 14.5 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 15/12 SEA DIR/HT 00/0 SWELL DIR/HT 19/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.76	31.16	21.66	76.10	7.9	5.46	.02	.11	2.94	.22
2	20.76	31.16	21.66	76.10	7.9	5.46				
3	20.79	31.06	21.58	76.30	7.9	5.40				
4	20.86	30.92	21.46	76.00	8.0	5.42				
5	20.67	31.21	21.72	76.60	7.9	5.47				
6	20.36	31.49	22.02	77.20	7.9	5.45				
7	19.80	31.82	22.41	77.90	7.9	5.45				
8	19.73	31.83	22.44	77.30	7.9	5.28				
9	19.27	31.77	22.51	77.80	7.9	5.47				
10	18.97	31.87	22.66	77.50	7.9	5.23	.01	.12	4.26	.21
11	16.86	32.12	23.36	76.90	7.9	5.42				
12	16.09	32.08	23.51	76.70	7.9	5.24				
13	15.54	32.13	23.67	76.00	7.9	5.10				
14	14.31	32.02	23.84	76.00	8.1	5.07				
15	13.84	32.12	24.02	76.60	8.2	5.48				
16	12.53	31.85	24.07	71.00	8.2	5.89				
17	10.60	32.24	24.72	66.70	8.0	6.47				
18	9.40	32.38	25.03	61.30	7.5	6.13				
19	8.96	32.52	25.21	60.90		5.34				
20	8.78	32.62	25.31	64.40		4.17				
21	8.65	32.68	25.38	75.30		3.16				
22	8.64	32.68	25.38	75.40		2.37				
23	8.64	32.67	25.37	75.50	7.5	1.89	.01	.12	12.91	.61



KELEZ CRUISE XWCC-10 STATION 85 JUNE 29, 1976



XWCC-10 STA. 86 LAT 39 47.5N; LONG 73 58.5W GMT 08.9 06/30/76  
 DEPTH 22 AIR D/W 20.6/20.0 BARO 10.0 VIS 6 CLD TYP/CVR 0/0  
 WETHR 4 WIND DIR/SPD 20/16 SEA DIR/HT 00/0 SWELL DIR/HT 20/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	17.64	31.40	22.63	75.30	7.8	4.33	.10	.00	4.50	.24
2	17.64	31.40	22.63	75.30	7.8	4.33				
3	17.67	31.40	22.62	75.20	7.8	4.34				
4	18.03	31.33	22.49	74.70	7.8	4.43				
5	19.20	31.14	22.05	75.90	7.8	4.56				
6	18.94	31.08	22.07	75.60	7.8	4.71				
7	17.17	31.21	22.59	73.50	7.7	4.71				
8	17.24	31.31	22.66	74.70	7.8	4.58				
9	12.59	32.33	24.43	71.70	7.6	4.56				
10	10.72	32.40	24.82	70.30	7.6	3.41	.08	.00	9.23	.62
11	10.63	32.38	24.83	70.30	7.6	3.14				
12	10.35	32.44	24.92	68.40	7.5	2.83				
13	10.16	32.46	24.96	68.20	7.5	2.54				
14	9.68	32.52	25.09	65.00		2.17				
15	9.49	32.60	25.18	69.50		1.82				
16	9.43	32.61	25.20	76.30		1.43				
17	9.39	32.63	25.22	77.00		1.23				
18	9.37	32.64	25.23	76.70		1.13				
19	9.37	32.62	25.22	76.90		1.12				
20	9.37	32.62	25.22	76.80	7.6	1.07	.12	.40	9.63	.51

KELEZ CRUISE XWCC-10 STATION 86 JUNE 30, 1976

TRANSMISSIVITY (0/0)

X 50 55 60 65 70 75 80 85 90 95

SIGMA-T

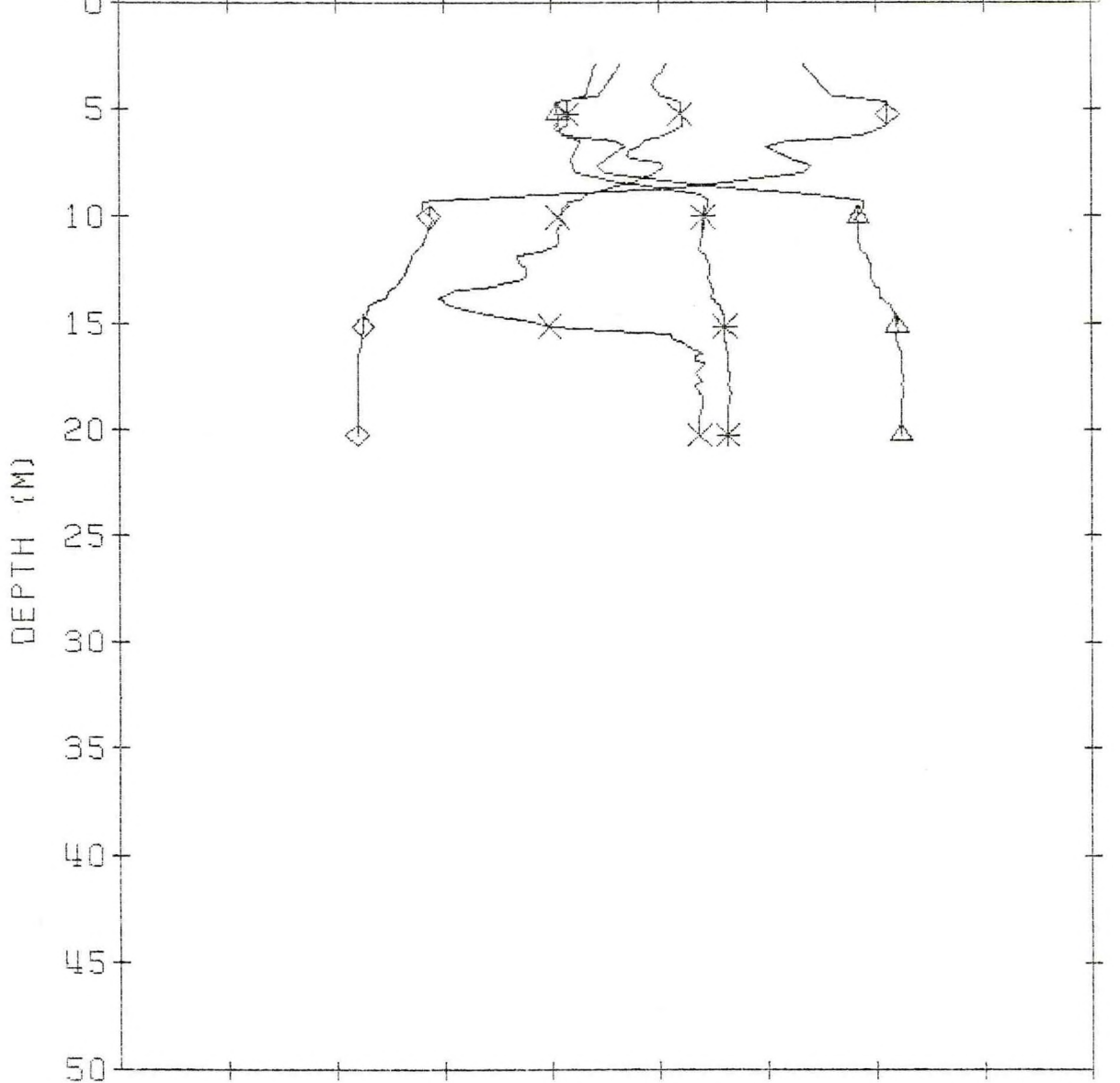
△ 18 19 20 21 22 23 24 25 26 27

SALINITY (0/00)

\* 27 28 29 30 31 32 33 34 35 36

TEMPERATURE (C)

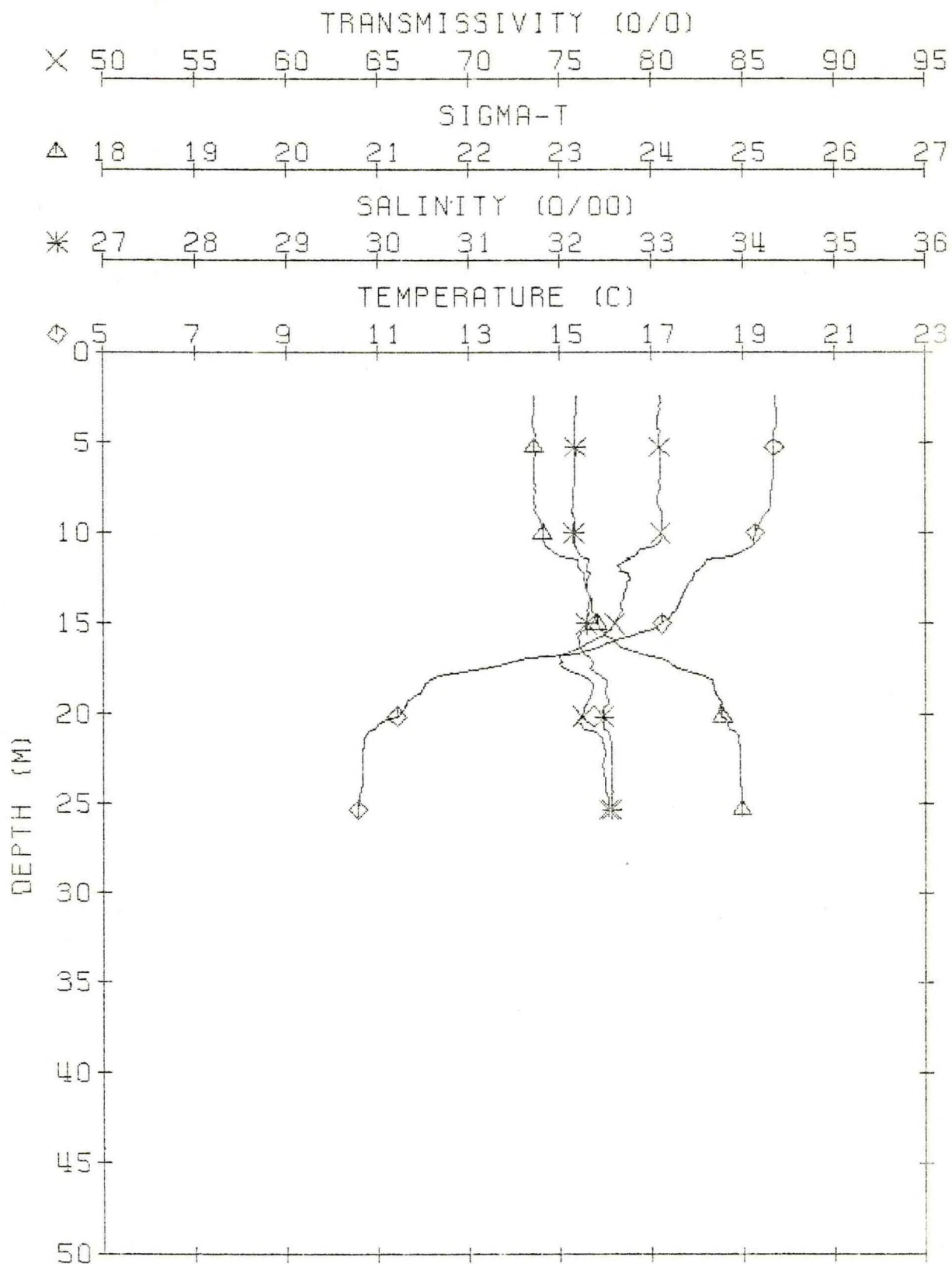
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XWCC-10 STA. 87 LAT 39 43.8N; LONG 73 44.5W GMT 10.6 06/30/76  
 DEPTH 31 AIR D/W 21.1/21.1 BARO 10.0 VIS 6 CLD TYP/CVR X/9  
 WETHR 1 WIND DIR/SPD 20/15 SEA DIR/HT 00/0 SWELL DIR/HT 18/1

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	NO2	NO3	SI03	P04
1	19.70	32.17	22.71	80.50	7.8	5.14	.03	.01	1.63	.26
2	19.70	32.17	22.71	80.50	7.8	5.14				
3	19.70	32.17	22.71	80.40	7.8	5.13				
4	19.70	32.16	22.70	80.30	7.8	5.10				
5	19.66	32.16	22.71	80.40	7.8	5.14				
6	19.66	32.16	22.71	80.40	7.8	5.11				
7	19.63	32.16	22.71	80.40	7.8	5.11				
8	19.59	32.15	22.72	80.30	7.8	5.14				
9	19.45	32.13	22.74	80.60	7.8	5.12				
10	19.25	32.15	22.80	80.50	7.8	5.18	.03	.00	1.07	.25
11	19.00	32.20	22.91	79.30	7.8	5.09				
12	18.03	32.29	23.22	78.20	7.8	5.15				
13	17.76	32.30	23.28	78.60	7.8	4.98				
14	17.56	32.31	23.34	78.30	7.8	4.97				
15	17.20	32.28	23.41	77.90	7.9	4.92				
16	16.11	32.21	23.60	76.70	7.9	4.95				
17	14.10	32.35	24.14	75.00	7.8	4.86				
18	12.22	32.47	24.61	76.40	7.8	4.58				
19	11.81	32.50	24.71	76.70	7.7	4.24				
20	11.44	32.47	24.75	76.20	7.7	3.78	.04	.00	6.52	.40
21	10.77	32.52	24.91	76.90	7.6	3.29				
22	10.66	32.56	24.96	77.40	7.6	3.09				
23	10.66	32.56	24.96	77.40	7.6	2.95				
24	10.63	32.56	24.97	77.40	7.6	2.77	.04	.01	8.78	.47
25	10.57	32.56	24.97	77.60	7.6	2.74				

KELEZ CRUISE XWCC-10 STATION 87 JUNE 30, 1976



XWCC-10 STA. 88 LAT 39 40.5N; LONG 73 30.0W GMT 12.6 06/30/76  
 DEPTH 36 AIR D/W 21.9/21.4 BARO 10.0 VIS 5 CLD TYP/CVR X/4  
 WETHR 1 WIND DIR/SPD 19/18 SEA DIR/HT 00/0 SWELL DIR/HT 18/2

DEP	TEMP	SAL	SIGT	TRAN	PH	O2	N02	N03	SI03	P04
1	20.55	32.01	22.36	81.50	7.8	5.26	.07	.00	1.96	.15
2	20.55	32.01	22.36	81.50	7.8	5.26				
3	20.55	32.00	22.36	82.00	7.8	5.23				
4	20.55	32.00	22.36	82.10	7.8	5.23				
5	20.55	32.00	22.35	81.90	7.8	5.24				
6	20.55	31.99	22.35	81.70	7.8	5.26				
7	20.55	32.00	22.36	81.70	7.8	5.26				
8	20.53	32.00	22.36	81.40	7.8	5.24				
9	20.38	32.02	22.42	81.80	7.8	5.28				
10	20.49	31.99	22.37	81.70	7.9	5.28	.11	.00	1.07	.21
11	20.47	32.00	22.38	81.80	7.9	5.23				
12	20.42	32.00	22.39	81.80	7.9	5.29				
13	19.89	32.12	22.62	81.60	7.9	5.32				
14	19.47	32.16	22.76	81.40	7.9	5.35				
15	18.72	32.20	22.98	80.70	7.9	5.40				
16	18.42	32.22	23.06	80.60	8.0	5.39				
17	18.07	32.15	23.10	80.60	8.0	5.51				
18	17.68	32.12	23.17	80.40	8.0	5.56				
19	17.13	32.06	23.25	80.30	8.1	5.64				
20	16.45	32.18	23.50	80.20	8.1	5.73	.11	.00	.00	.18
21	16.04	32.22	23.63	79.90	8.1	5.77				
22	15.64	32.22	23.72	79.00	8.1	5.91				
23	15.03	32.26	23.88	78.90	8.1	5.96				
24	13.69	32.31	24.20	78.20	8.1	6.19				
25	12.05	32.36	24.56	76.10	8.1	6.49				
26	11.07	32.44	24.79	74.50	8.0	6.48				
27	10.06	32.64	25.13	69.10	7.8	6.34				
28	9.56	32.75	25.29	63.10	7.7	5.43				
29	9.40	32.79	25.35	73.80	7.7	4.99				
30	9.37	32.80	25.36	75.90	7.6	4.46				
31	9.35	32.81	25.37	77.00	7.6	3.92				
32	9.35	32.80	25.37	76.90	7.6	3.63	.11	.00	4.05	.30
33	9.34	32.80	25.37	77.40	7.6	3.45				

KELEZ CRUISE XWCC-10 STATION 88 JUNE 30, 1976

